FINAL PRE-DESIGN INVESTIGATION REPORT

Former Aluminum Louvre Site
Site No. 130195

Town of Old Bethpage
Nassau County, New York

Prepared for:
New York State
Department of
Environmental Conservation

February 28, 2020

CDM Smith

Certification Statement

I, Amy Picunas, certify that I am currently a New York State registered professional engineer and that this *Final Pre-Design Investigation Report for Former Aluminum Louvre, NYSDEC Site No. 130195*, February 28, 2020 was prepared in accordance with all applicable statutes and regulations and in substantial confirmation with the DER Technical Guidance for Site Investigation and Remediation (DER-10) and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Amy Picunas, of 11 British American Boulevard, Latham, New York, am certifying as Owner's Designated Site Representative for the site.

NYS Professional Engineer # 089022

Date February 28, 2020

Signature Amy Picunas

CDM Smith

Table of Contents

Section 1 – Introduction

1.1 Site Background....1-1
1.1.1 Current Site Use....1-1
1.1.2 Historical Use....1-1
1.1.3 Remedial History and Previous Site Investigations....1-2
1.1.4 Physical Setting....1-3
1.2 Record of Decision Components....1-4
1.3 Pre-Design Investigation Purpose and Objectives....1-5

Section 2 – Pre-Design Field Activities

2.1 Phase I (October 2017 – November 2017)....2-1
2.1.1 Geophysical Survey....2-1
2.1.2 Soil Vapor Intrusion....2-1
2.1.3 Subsurface Soil....2-2
2.1.4 Groundwater....2-3
2.2 Phase II (June 2018 – July 2018)....2-3
2.2.1 Geophysical Survey....2-4
2.2.2 Subsurface Soil....2-4
2.2.3 Groundwater....2-5
2.2.3.1 Permanent Monitoring Well Installation and Development....2-4
2.2.3.2 Groundwater Sampling....2-5
2.2.3.3 Slug Testing....2-6
2.2.3.4 Monitoring Well Decommissioning....2-6
2.3 Phase III (March 2019)....2-7
2.3.1 Geophysical Survey and Subsurface Investigation....2-7
2.3.2 Subsurface Soil....2-8
2.4 Decontamination....2-8
2.5 Investigation Derived Waste....2-8
2.6 Quality Assurance/Quality Control....2-9
2.6.1 Laboratory Analysis and Validation....2-9
2.6.2 Quality Assurance/Quality Control Samples....2-9

Section 3 – Site-Specific Geology and Hydrogeology

3.1 Site Hydrogeology....3-1
3.2 Site Geology and Lithology....3-2

Section 4 – Nature and Extent of Contamination

4.1 Phase I (October 2017 – November 2017)....4-1
4.1.1 Summary of Soil Vapor Intrusion Sampling Results....4-1
4.1.2 Summary of Subsurface Soil Sampling Results....4-2
4.1.3 Summary of Groundwater Sampling Results....4-3
4.2 Phase II (June 2018 – July 2018)....4-3
4.2.1 Summary of Subsurface Soil Investigation and Sampling Results....4-3

4.2.2 Summary of Groundwater Sampling Results 4-4
4.2 Phase III (March 2019) 4-5
4.2.1 Summary of Subsurface Soil Investigation and Sampling Results 4-5
4.4 Conclusions 4-5

Section 5 – Conceptual Site Model

5.1 Physical Setting 5-1
5.2 Contaminant Source 5-2
5.3 Migration Pathways 5-2
5.4 Contaminant Fate 5-3

Section 6 – Basis of Design

6.1 Remedial Action Objectives for OU-1 6-1
6.2 Record of Decision Requirements 6-2
6.3 Remediation Strategy 6-2
6.3.1 Vadose Zone 6-2
6.3.2 On-Site Vapor Intrusion 6-3
6.3.3 On-Site Groundwater 6-3
6.4 Treatment Zone 6-3
6.5 In-situ Thermal Remediation Design Components 6-3
6.6 Sub-slab Depressurization System Design Components 6-4
6.7 Site Access and Security 6-5
6.8 Energy Availability for ISTR 6-5
6.9 Stormwater Management 6-5
6.10 Permitting 6-6
6.11 Waste Management 6-6
6.12 Monitoring 6-6

Section 7 – References

List of Figures

Figure 1-1 Site Vicinity Map
Figure 1-2 Site Location Map
Figure 1-3 Pre-Design Investigation Dry Well Location Map
Figure 2-1 Pre-Design Investigation Soil Vapor Intrusion Sample Location Plan
Figure 2-2 Pre-Design Investigation Soil Boring Location Plan
Figure 2-3 Pre-Design Investigation Groundwater Sample Location Plan
Figure 3-1 Groundwater Contours – January 2018
Figure 3-2 Groundwater Contours – March 2019
Figure 4-1 Pre-Design Investigation Soil Vapor Intrusion Sample Results
Figure 4-2A Pre-Design Investigation Soil Boring Locations Plan – Total VOCs in Clay 1
Figure 4-2B Pre-Design Investigation Soil Boring Locations Plan – Total VOCs in Clay 2
Figure 4-3 Pre-Design Investigation Groundwater Sample Results
Figure 5-1A Pre-Design Investigation Cross Sections Plan

Figure 5-1B Longitudinal Soil Profile – Section A-A'
Figure 5-1C Latitudinal Soil Profile – Section B-B'
Figure 5-1D Soil Profile Transect – Section C-C'
Figure 5-2 All Soil Boring Locations – Total VOCs in Clay 1
Figure 6-1 Proposed Target Treatment Zones

List of Tables

Table 2-1 PDI Sample Summary
Table 3-1 Synoptic Groundwater Data
Table 4-1 Soil Vapor Intrusion Analytical Results
Table 4-2 Recommendations Based on NYSDOH Decision Matrices
Table 4-3 Summary of Soil Sampling Results
Table 4-4 Summary of Groundwater Sampling Results
Table 6-1 Summary of Performance Criteria
Table 6-2 Calculation of Site-Specific Impact to Groundwater Soil Concentration

Appendices

Appendix A Geophysical Survey Reports and Markout Figures
Appendix B Soil Boring Logs
Appendix C Field Notes
Appendix D Photodocumentation
Appendix E Well Development, Low Flow and Well Construction Logs
Appendix F Hydraulic Conductivity Calculations
Appendix G Waste Manifests
Appendix H Laboratory Reports
Appendix I Data Usability Summary Reports
Appendix J Site-Specific Protection of Groundwater Calculations
Appendix K Historical Building Records – Town of Oyster Bay
Appendix L Load Letters

Acronym List

NYSDEC	New York State Department of Environmental Conservation
DER	Division of Environmental Remediation
CDM Smith	Camp Dresser McKee & Smith
PDI	pre-design investigation
RD	remedial design
OU	operable unit
FAL	Former Aluminum Louvre
ROD	record of decision

PCE	tetrachloroethylene
TCE	trichloroethylene
1,1,1-TCA	1,1,1-trichloroethane
VCA	voluntary cleanup agreement
USEPA	United States Environmental Protection Agency
VOCs	volatile organic compounds
RIR	remediation investigation report
NYSERP	New York State Environmental Restoration Program
RI	remedial investigation
COCs	contaminants of concern
cis-1,2-DCE	cis-1,2-dichloroethene
SCOs	soil cleanup objectives
bgs	below ground surface
µg/m^3	microgram per cubic meter
NYSDOH	New York State Department of Health
TOGS	Technical and Operational Guidance Series
AWQS	Ambient Water Quality Standards and Guidance Values
µg/L	micrograms per liter
NEMF	New England Motor Freight
amsl	above mean sea level
ISTR	in-situ thermal remediation
SSDSs	sub-slab depressurization systems
AS	air sparging
SVE	soil vapor extraction
RAOs	remedial action objectives
AGS	Advanced Geophysical Services
GPR	ground penetrating radar
SVI	soil vapor intrusion
TA	TestAmerica Laboratories
Cascade	Cascade Drilling
ADT	Aquifer Drilling and Testing
PID	photoionization detector
TOC	total organic carbon
SIM	selective ion monitoring
TTZ	target treatment zone
PVC	polyvinyl chloride
PFAS	poly-/per-fluorinated alkyl substances
QAPP	Quality Assurance Project Plan
IDW	investigation derived waste
DUSR	Data Usability Summary Report
QA/QC	quality assurance/quality control
MS/MSD	matrix spike/matrix spike duplicate
FB	field blank
TB	trip blank
V	linear velocity of groundwater

MeCl	methylene chloride
1,1-DCE	1,1-Dichloroethene
ppm	parts per million
µg/kg	micrograms per kilogram
mg/kg	milligrams per kilogram
NAPL	non-aqueous phase liquid
MCL	maximum contaminant level
DWQC	Drinking Water Quality Council
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
DNAPL	dense non-aqueous phase liquid
ERH	electrical resistance heating
TCH	thermal conductive heating
MMBTU	million British Thermal Units
NESE	Northeast Supply Enhancement Project

Section 1
Introduction

1.1 Site Background

New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation (DER) has requested assistance from Camp Dresser McKee & Smith (CDM Smith) to complete a pre-design investigation (PDI) and remedial design (RD) for implementation of a remedial action for Operable Unit (OU) 1 of the Former Aluminum Louvre (FAL) Site (herein referred to as the "Site"). A record of decision (ROD) was issued for this Site in March 2013 (NYSDEC, 2013). This report provides a summary of the three PDI phases conducted between October 2017 and March 2019. The results have been compiled into an updated conceptual site model for the Site, subsequently used as the basis of design, both of which are presented in this report.

1.1.1 Current Site Use

The FAL Site includes two parcels: 161 Bethpage-Sweet Hollow Road (tax parcel 47-A-265, approximately 2.14 acres) and 301 Winding Road (tax parcel 47-A-263, approximately 1.22 acres) in Old Bethpage, NY. The Site is in an industrial park surrounded by a suburban area. To the west and southwest of the Site is an inactive waste incinerator and the former Old Bethpage Landfill. **Figure 1-1** presents the site vicinity map and **Figure 1-2** presents the site location map.

The main features of the Site include two commercial buildings, which are surrounded by paved outdoor parking and storage. Each parcel contains one of the commercial buildings. Both properties on the Site are zoned for light industrial use. The building on 161 Bethpage-Sweet Hollow Road contains one tenant: New York Paving, a commercial paving company. The 161 Bethpage-Sweet Hollow Road building owner uses approximately 75% of the building for storage of drag racing vehicles/equipment and storage of other various vehicles. The 301 Winding Road property has one tenant, IntelliGen Power Systems LLC. IntelliGen Power Systems utilizes the building to maintain and fabricate cogeneration power units. The surrounding properties are used for a combination of commercial and light industrial. The nearest residential area is 0.35 mile northwest of the Site.

1.1.2 Historical Use

The Aluminum Louvre Corporation formerly owned 161 Bethpage-Sweet Hollow Road and simultaneously occupied both lots that comprise the Site. Aluminum Louvre manufactured louvers, which involved stamping, cutting, and shaping of metal stock; degreasing parts and painting. From 1986 to 1993, Aluminum Louvre generated volatile organic compound (VOCs) solvent waste, including tetrachloroethylene (PCE), trichloroethylene (TCE) and 1,1,1-trichloroethane (1,1,1-TCA). Nassau County records also indicate that Aluminum Louvre used TCE and 1,1,1-TCA from 1983 to 1994. In 1997, a contaminated dry well at the 301 Winding Road

property was remediated under a voluntary cleanup agreement (VCA). Dry well remediation was also conducted under a separate VCA at the 161 Bethpage-Sweet Hollow Road property from 1999 to 2000. In 2007, the United States Environmental Protection Agency (USEPA) collected soil and groundwater samples at the Site and found both mediums to be contaminated with TCE and other VOCs. NYSDEC investigated the properties from 2008 to 2009 as part of the Old Bethpage Industrial Area Site Characterization and determined that the Site should be listed on the Registry of Inactive Hazardous Waste Disposal Sites. The Site was divided into three OUs: OU-1 includes on-site contamination, OU-2 covers off-site contamination, and OU-3 consists of an area-wide groundwater evaluation.

1.1.3 Remedial History and Previous Site Investigations

There have been sixteen separate environmental investigations and two VCAs conducted at or in the vicinity of the Site. Of these sixteen studies, seven investigations included the 161 Bethpage-Sweet Hollow Road property, six investigations included the 301 Winding Road property and three included both properties. In 2013, a remediation investigation report (RIR) was completed by HDR (HDR, 2013a) for the NYSDEC under the New York State Environmental Restoration Program (NYSERP) and a ROD was issued (NYSDEC, 2013). This section summarizes the activities and findings from the remedial investigation (RI).

The primary contaminants of concern (COCs) in the soil are VOCs including TCE, PCE, cis-1,2-dichloroethene (cis-1,2-DCE), 1,1,1-TCA, toluene, and xylene. These VOCs were detected above the NYSDEC unrestricted use soil cleanup objectives (SCOs). TCE and PCE were the most frequently detected compounds and exceeded the unrestricted use SCOs by the largest factor. The highest contaminant concentrations were detected on the 301 Winding Road properties near a former dry well just south of the 161 Bethpage-Sweet Hollow Road building. Refer to **Figure 1-3** for dry well locations. Based on sampling results and field screening observations, the contaminated subsurface soil appeared to be largely confined to a layer of silty clay, in which the highest VOC concentrations were consistently detected between 14 and 18 feet below ground surface (bgs). In addition, a small area of soil impacted with polychlorinated biphenyls and three pesticides above the unrestricted use SCOs were identified near another dry well east of the 301 Winding Road building. The areas to the west and north of the two buildings investigated as part of the RI soil investigation did not have soil contamination above applicable unrestricted use SCOs.

Vapor intrusion sampling was conducted in two phases in 2011 and 2012 and included the collection of sub-slab vapor samples at six locations inside the Site buildings, indoor air samples, and outdoor air samples. The highest concentrations were observed in the sub-slab sample collected in the southeast corner of the 161 Bethpage-Sweet Hollow Road building during the 2012 event (1,1,1-TCA at 560 microgram per cubic meter [µg/m^3], PCE at 8,300 µg/m^3, and TCE at 23,000 µg/m^3). The co-located indoor air samples collected inside the Site buildings indicated exceedances of New York State Department of Health (NYSDOH) air guidance values for ambient air of PCE (57 µg/m^3) and TCE (3.8 µg/m^3).

In 2011 and 2012 a network of monitoring wells was installed on- and off-site. Well clusters were installed at six locations on-site. Each location was set with three screened intervals from 60 to 70 feet bgs, one between 95 to 100 feet bgs, and the deepest from 120 to 125 feet bgs. In 2012, an additional four wells were installed off-site to the east and southeast to further delineate the horizontal and vertical extent of the chlorinated solvent plume with the same screened intervals as the on-site wells. One single-depth deep well with a screened interval from 173 to 183 feet bgs was installed in the "source area", located in the paved area just east of the northeast corner of 301 Winding Road property where concentrations of VOCs are highest.

VOCs were present in samples collected during both the 2011 and 2012 groundwater sampling events at the 161 Bethpage-Sweet Hollow Road and 301 Winding Road properties and included TCE, PCE, cis-1,2-DCE, and 1,1,1-TCA, and toluene and xylene to a lesser extent. The highest groundwater concentrations were measured in samples collected from the northeastern portion of the 301 Winding Road property. Groundwater contamination extends from the water table to greater than 125 feet bgs in some areas, both on-site and off-site. TCE, the main contaminant in the groundwater at the Site, was detected above the NYSDEC Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (AWQS) Class GA standard of 5 micrograms per liter (µg/L) both on-site and off-site. The highest concentrations of TCE (2,500 µg/L) in groundwater were found at the water table, which is located approximately 65 feet bgs in the source area within the eastern portion of the 301 Winding Road property, and in intermediate depth intervals to the east and southeast of the main source area, both on-site and off-site. With increasing distance from the source area, the highest concentrations of TCE and other chlorinated VOCs were found in the deeper sampling intervals of the multi-level wells. TCE (300 µg/L) was discovered at 95 feet bgs on the 303 Winding Road property, approximately 130 feet southeast of the source area and in the general direction of the groundwater flow.

TCE concentrations above the NYSDEC standard were also observed approximately 130 feet downgradient from the source area in the eastern part of the 161 Bethpage-Sweet Hollow Road property (550 µg/L, at 70 feet bgs), in the direction of the observed flow of shallow groundwater. Further to the east and southeast, TCE was detected above the AWQS Class GA standard in the intermediate and deep intervals at two off-site monitoring wells.

To the northwest and west of the Site, the concentrations of chlorinated VOCs were mostly below detection limits or detected at low concentrations. Concentrations of TCE above the applicable standards extend approximately 275 feet to the south-southeast of the source area to the New England Motor Freight (NEMF) property located at 1 Arlene Way. Concentrations below the applicable standard for TCE were observed directly south of the NEMF property at 95 feet bgs (1.7 µg/L).

1.1.4 Physical Setting

The Site is located in the Hamlet of Old Bethpage within the Town of Oyster Bay, New York. Old Bethpage is located within Nassau County but also directly west of the boundary between Nassau and Suffolk County within central western Long Island. The Site is covered with pavement and buildings with the exception of narrow strips of vegetation trimming the parking areas. The Site lies at an elevation of between 127 and 135 feet above mean sea level (amsl) and generally slopes to the southeast. Overall each tax lot is generally flat, however a 3 to 4-foot retaining wall

separates the two parcels. The 161 Bethpage-Sweet Hollow Road property is the higher property in elevation of the two.

Long Island is comprised of Cretaceous and Pleistocene unconsolidated deposits underlain by Early Paleozoic to Precambrian bedrock. Pleistocene-aged deposits unconformably overlie the Cretaceous-aged deposits. In the vicinity of the Site, the Upper Pleistocene sediments are mostly absent and the Cretaceous sediments of the Magothy formation are more prevalent. The Pleistocene-aged deposits are those that comprise the upper glacial aquifer, the surficial water bearing unit on Long Island. These deposits are primarily comprised of glacial till of the terminal moraines along the central axis of Long Island, and outwash deposits of sand and gravel between and south of the Moraines. The Site is within central-western Long Island, within which the outwash deposits are dominated by fine to coarse sand and gravel. It is noted than some thin local lenses of clay or silty zones exist within the Upper Pleistocene sediments of the Old Bethpage area (Smolensky, et al. 1989). The dominant Magothy lithology generally is fine to medium quartz sand interbedded with coarse sand, sandy clay, and solid clay. Lignite, pyrite, and iron oxide concretions are also found in the Magothy. The top of the Magothy is approximately 35 feet amsl (approximately 85 feet bgs at the Site). The thickness of the Magothy is approximately 650 feet at the Site.

The subsurface investigation performed during the RI, indicated that observed materials at the Site mostly consisted of sand with interbedded layers of clay and silty sand. A layer of silty clay was noted between 11 and 16 feet bgs and ranged in thickness from approximately one to six feet. As stated, this silty clay layer coincided with some of the highest observed concentrations of VOCs in soil at the Site (HDR, 2013a). The PDI investigation assisted in confirming and refining the site-specific geology. Further discussion of the PDI refined site-specific geology, as well as, the site-specific hydrogeology is detailed in **Section 3**.

1.2 Record of Decision Components

Based on the HDR-issued 2013 RI and the 2013 Feasibility Study (HDR, 2013b), a ROD for OU-1 of the Site was issued in March 2013 (NYSDEC, 2013). The following is a list of the elements of the selected remedy:

- A RD program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques shall be included in the RD program.
- In-situ thermal remediation (ISTR) treatment will be implemented to destroy or volatilize VOCs in the unsaturated soil on the east side of the site. The gasses produced will be collected by vapor extraction wells and treated in an ex-situ treatment unit.
- Both on-site buildings will be required to have sub-slab depressurization systems (SSDSs), or similar engineered systems, to prevent the migration of vapors into the building from soil and/or groundwater.
- Air sparging (AS) will be implemented to address the on-site groundwater plume contaminated by VOCs. Soil vapor extraction (SVE) will be used to collect the sparged vapors.

- An institutional control will be imposed at the Site in the form of environmental easement.
- A Site Management Plan including an Institutional and Engineering Control Plan, Monitoring Plan, and an Operation and Maintenance Plan will be required for the maintenance of the Site after the selected remedy has been implemented.

1.3 Pre-Design Investigation Purpose and Objectives

The overall goal of the PDI was to confirm and further define the limit and extent of contaminated soils beyond those detailed in the RI and ROD. Specifically, the objectives of the PDI were to:

- Establish the present nature of the Site topography and parcel boundaries.
- Evaluate hydrogeological parameters that may impact the RD.
- Confirm the nature and extent of contamination with finer spatial detail to inform appropriate remedial action.
- Develop an understanding of above- and below-ground utilities and features that may impact design and remedy effectiveness.
- Evaluate the extent of sub-slab vapor contamination at the 161 Bethpage-Sweet Hollow Road and 301 Winding Road properties.
- Update the conceptual site model for the Site, including the extent of the remediation zone, so that an effective RD can be developed to comply with the ROD for the Site.

The purpose of this PDI report is to present the results of the data collected to help address the abovementioned objectives. The results of the PDI were used in the development of the basis of design detailed in **Section 6** of this report. Ultimately, the additional sampling and characterization of the Site will be used to prepare and inform the RD so that it meets the remedial action objectives (RAOs) stated in the ROD. In general, the RD will be prepared such that the remedial program will restore the Site to pre-disposal conditions to the extent feasible and at minimum, shall eliminate significant threats to public health and the environment. A discussion of the specific RAOs for groundwater, soil and soil vapor for the Site is further detailed in **Section 6**.

Section 2 presents field activities performed during the three phases of the PDI. **Section 3** discusses the Site geology and hydrogeology, with **Section 4** presenting the nature and extent of contamination at the Site. **Section 5** presents an updated conceptual site model and **Section 6** presents the basis of design for this Site.

Section 2
Pre-Design Field Activities

This section provides a description of the PDI field activities performed during Phase I, conducted in October and November 2017, Phase II, conducted from June 2018 through July 2018, and Phase III, conducted during March 2019. A sample summary of the samples collected during all three phases of the field activities of the PDI is provided in **Table 2-1**.

2.1 Phase I (October 2017 – November 2017)

2.1.1 Geophysical Survey

CDM Smith subcontracted Advanced Geophysical Services (AGS) to conduct a geophysical survey at the Site for the Phase I drilling activities. The objectives of the survey were to clear proposed drilling locations of identifiable utilities, and to identify any underground utilities or features such as dry wells, in the paved areas east of both buildings. CDM Smith accompanied AGS during the survey which was conducted on October 9, 2017.

AGS utilized a combination of ground penetrating radar (GPR), radio frequency utility locating, and handheld metal detection methods to complete the survey. All five locations identified in this investigation for drilling were cleared of identifiable utilities. AGS identified eleven dry wells, shown on Figure 1 of **Appendix A**, and associated piping connections through visual observation and GPR. It was noted piping was present between dry wells DW-7, DW-8 and DW-9 (refer to **Figure 1-3**). Additionally, a water utility and telecommunications line were identified and marked out on the ground using spray paint. A copy of the geophysical survey figure markup was provided by AGS is provided in **Appendix A.** Note the locations of the utilities on the markup figure are approximate and for informational purposes only.

2.1.2 Soil Vapor Intrusion

CDM Smith conducted soil vapor intrusion (SVI) sampling between November 13, 2017 and November 15, 2017. A total of three permanent sub-slab soil vapor sampling ports were installed at the 301 Winding Road property and four permanent sub-slab sample ports were installed in the 161 Bethpage-Sweet Hollow Road property. An indoor air sample was co-located at every sub-slab sample location at both properties. Two outdoor air samples were also collected. The first was collected in the alley to the north of the 301 Winding Road property. The second was collected along the eastern portion of the 161 Bethpage-Sweet Hollow Road property. All samples were collected in 4-hour summa canisters and sent to TestAmerica Laboratories (TA) for analysis of VOCs by USEPA Method TO-15. The SVI sampling locations are shown on **Figure 2-1** and a summary of SVI samples collected is presented in **Table 2-1**. The sampling activities and analysis results are presented in **Section 4.1**.

2.1.3 Subsurface Soil

CDM Smith conducted a subsurface investigation between October 22, 2017 and November 17, 2017. CDM Smith subcontracted Cascade Drilling (Cascade), formerly Aquifer Drilling and Testing (ADT) located in Lynbrook, New York to perform drilling activities. The primary intent of the Phase I subsurface investigation was to characterize the existing subsurface conditions and

identify the nature of contamination and lateral extent of a submerged clay layer expected at approximately 80 feet bgs based on previous investigations. During the investigation, a shallow clay layer was identified at a depth of approximately 16.5 to 19 feet bgs, and a deep clay layer was observed at approximately 75.5 feet bgs to 81.5 feet bgs at boring locations near the Site buildings. Additionally, a third intermediate layer consisting of silty clay and/or gray clay material was identified at a depth of approximately 60 feet bgs. The shallow, intermediate and deep clay layers will be referred to as Clay 1, Clay 2 and Clay 3, respectively throughout the report. The soil boring logs for all PDI soil boring locations are presented in **Appendix B** and field notes are presented in **Appendix C**. Photodocumentation is presented in **Appendix D**.

Between October 23 and October 27, 2017, Cascade advanced soil borings at 3 locations (PDI-3 through PDI-5) using direct push drilling methods at the 161 Bethpage-Sweet Hollow Road property. Soil and groundwater samples were collected to further delineate contamination and characterize the existing Site conditions. At one location (PDI-4), the Geoprobe® hit refusal twice at 45 feet bgs due to the tightness of the sand formation. PDI-3 was advanced to a depth of 100 feet bgs and PDI-5 was advanced to a depth of 60 feet bgs. The soil boring locations are shown on **Figure 2-2** and a soil sample summary is presented in **Table 2-1**. The borings were screened for VOCs using a photoionization detector (PID) and the lithology was recorded at each location. Additionally, samples were collected for analysis of VOCs using USEPA Method 8260C at depths where clay material was present. The analytical results are discussed in **Section 4.2.1**.

Due to issues advancing the boring at the 161 Bethpage-Sweet Hollow Road property (PDI-4), Cascade recommended using Sonic drilling methods to complete PDI-4 and the remaining two borings within the 301 Winding Road Property (PDI-1 and PDI-2). Cascade re-mobilized to the Site between November 14 and November 17, 2017. A Geoprobe® Sonic 8140LC rig was utilized to advance borings at locations PDI-2 and PDI-4. Similar issues were encountered at PDI-4, and a final depth of only 60 feet bgs was achieved. Consequently, no soil samples were collected at PDI-4. PDI-2 was advanced to a depth of 80 feet bgs and soil samples were collected from the Clay 3 layer. Due to the amount of time and difficulty still experienced with the Geoprobe Sonic 8140LC, Cascade mobilized a larger Sonic drill rig on November 17, 2017 to complete boring PDI-1. The soil boring locations are shown on **Figure 2-2** and a soil sample summary is presented in **Table 2-1**. In addition to VOC samples, a total of five total organic carbon (TOC) samples were collected at PDI-1 between 8 feet bgs and 24 feet bgs in 4-foot intervals to assess the thermal treatability of the soil. The soil samples were analyzed for VOCs via USEPA Method 8260C and TOC via USEPA Method 9060. All soil samples sampled for VOCs and/or TOC were sent to TA for analysis. A sample summary is provided in **Table 2-1**. The analytical results are provided in **Section 4.2.1**.

2.1.4 Groundwater

In October and November 2017, CDM Smith collected groundwater grab samples through the casing on the Geoprobe® and Sonic drilling equipment. Two groundwater samples were to be collected at each location, one at the water table (expected at approximately 60 feet bgs based on previous investigations) and the second directly above the submerged clay layer (Clay 3, expected at approximately 80 to 90 feet bgs). Due to the narrow separation observed between the actual top of the water table (approximately 70 to 72 feet bgs) and the top of the Clay 3 layer (75 to 80 feet bgs), only one groundwater sample was collected at locations PDI-1, PDI-2 and PDI-3, from the groundwater present between Clay 2 and Clay 3. Two groundwater samples were collected at

PDI-5. Samples were collected for analysis of VOCs using USEPA Method 8260C at all locations. Additionally, samples were collected at PDI-1 and PDI-5 for analysis of 1,4-dioxane using Method 8270 selective ion monitoring (SIM). Groundwater sampled for VOCs and/or 1,4-dioxane were sent to TA for analysis. A sample summary is provided in **Table 2-1**. The groundwater sample locations are shown on **Figure 2-3** and a groundwater sample summary is presented in **Table 2-1**.

CDM Smith proposed to conduct two slug tests in existing monitoring wells in the same hydrostratigraphic units as the treatment zone at MW-161-1-S and MW-161-2-S, however both locations were dry during the October and November 2017 sampling event. Slug testing performed during Phase II is described in **Section 2.2.3.3** and analytical results are presented in **Section 3.1.3**.

2.2 Phase II (June 2018 – July 2018)

The primary intent of the subsequent PDI investigation, performed as a Phase II, was to provide a finer spatial detail of the extent and depth of contamination in the Clay 1 and Clay 2 layers that was not fully characterized in the Phase I investigation. Finer spatial detail of the extent of contamination assists in an accurately-defined target treatment zone (TTZ). Thermal treatment is an expensive technology; therefore, it was agreed between NYSDEC and CDM Smith the additional cost of conducting Phase II sampling to further refine the TTZ is justified.

There is a potential for the Site COCs to migrate through Clay 1, which could both possibly contaminate Clay 2 and serve as a continued source of groundwater contamination. The Phase II sampling investigation targeted the soil of Clay 1 and 2, as well as, the groundwater beneath and downgradient of the source area. Phase II investigation activities were performed in a manner that minimized the potential for contamination within Clay 1 to be transferred to Clay 2 during intrusive subsurface activities.

2.2.1 Geophysical Survey

A subsequent survey performed by AGS was conducted to clear proposed indoor drilling locations during Phase II. The objectives of the survey were to clear proposed drilling locations of identifiable utilities, and to identify any underground utilities or features within the second most southern garage bay of 161 Bethpage-Sweet Hollow Road and the eastern extension of 301 Winding Road. CDM Smith accompanied AGS during the survey which was conducted on July 23, 2018.

AGS utilized a combination of GPR, radio frequency utility locating, and handheld metal detection methods to complete the survey. All three indoor locations identified in this investigation for drilling were cleared of identifiable utilities. AGS identified three unknown utilities, shown on Figure 2 of **Appendix A.** All unknown utilities were noted on the ground using chalk during the sampling event. The areas for which the geophysical survey was requested, as well as, areas where utilities or features were identified are also presented in Figure 2 of **Appendix A**. Note the locations of the utilities on the markup figure are approximate and for informational purposes only.

2.2.2 Subsurface Soil

Subsurface soil samples collected during the Phase II field investigation were performed to provide a finer spatial detail of the impacted soil in the Clay 1 and Clay 2 layers, beyond the results collected during Phase I field investigation.

Between June 13 and June 29, 2018, Cascade advanced soil borings at 15 locations (PDI-6 through PDI-20) at the 161 Bethpage–Sweet Hollow Road and 301 Winding Road properties. Cascade used direct push drilling methods for locations PDI-6 through PDI-9 and Sonic drilling methods for locations PDI-10 through PDI-20. Locations PDI-6 through PDI-9 and PDI-18 were advanced to the shallow Clay 1 layer where soil samples were sampled for VOCs via USEPA Method 8260C.

At locations PDI-10 through PDI-20, soil samples were collected for VOC analysis at the intermediate Clay 2 layer, where gray clay material was present. Boring locations, PDI-10 through PDI-16 were performed as a part of a transect targeting both the Clay 2 layer and the groundwater present between the Clay 2 and Clay 3 layers. Locations from PDI-10 to PDI-16 were performed in a transect moving north to south, approximately 60 feet east of both the 161 Bethpage-Sweet Hollow Road and 301 Winding Road buildings. Soil samples were collected at the top of the Clay 2 layer, where observed, at the boring locations. No soil samples were collected at PDI-11 or PDI-12 as the Clay 2 layer was not observed.

Angled drilling was utilized at locations PDI-17, PDI-19 and PDI-20 near the source area so that samples could be obtained from the Clay 2 layer without drilling through known highly contaminated zones. The soil boring locations are shown on **Figure 2-2** and a soil summary table is presented in **Table 2-1**. All borings were screened for VOCs using a PID and the lithology was recorded at each location. All soil samples were analyzed for VOCs via USEPA Method 8260C. Additionally, six samples were collected from PDI-17, PDI-19, and PDI-20 and analyzed for ferrous iron via Method SM3500D. The analytical results are presented in **Section 4.2.2**.

On July 25, 2018, Cascade advanced soil borings at 3 locations (PDI-23 through PDI-25) within the 161 Bethpage-Sweet Hollow Road and 301 Winding Road buildings using direct push drilling methods. The soil boring locations are shown on **Figure 2-2** and a soil sample summary table is presented in **Table 2-1**. The borings were screened for VOCs using a PID and the lithology was recorded at each location. Additionally, soil samples were collected for VOC analysis at depths above the Clay 1 layer at each location. The soil samples were analyzed for VOCs via USEPA Method 8260C. The analytical results are provided in **Section 4.2.2**.

All soil samples sampled for VOCs during the Phase II field investigation were sent to TA for analysis. Soil boring logs for all Phase II locations are presented in **Appendix B**. Photodocumentation is presented in **Appendix D**.

2.2.3 Groundwater

2.2.3.1 Permanent Monitoring Well Installation and Development

In response to the Phase I groundwater grab sampling results monitoring wells were installed to further delineate and observe the contamination plume between Clay 2 and Clay 3. The locations of the new permanent monitoring wells were selected based on the groundwater grab samples

collected along the transect including sample locations PDI-10 through PDI-16 discussed in **Section 2.2.3.2**.

Between July 2 and 3, 2018, Cascade utilized a Sonic drill rig to install two monitoring wells. MW-161-3 was installed to a depth of 75 feet bgs and is located approximately 132 feet directly east of the northeastern corner of the 301 Winding Road building. MW-161-4 was installed to a depth of 75.3 feet bgs and is located approximately 125 feet east of the 301 Winding Road building and approximately 25 feet south of MW-161-3. MW-161-3 and MW-161-4 both have 10-foot-long screens. Both wells are located in the 161 Bethpage-Sweet Hollow Road parking lot.

Both wells were constructed using two-inch diameter, polyvinyl chloride (PVC), pre-packed, 10-slot screen and schedule 40, two-inch diameter PVC riser. A sand backfill was added around the wells to two-feet above the top of screen using No. 2 filter sand. A 2-foot bentonite seal was then added, and the wells were grouted with Portland cement to 1-foot below grade. A flush-mount aluminum road box with a concrete pad was installed for each of the wells. The wells were developed with a Mega Purger Whale® submersible pump by CDM Smith until water quality parameters stabilized and a minimum of 3 to 5 well volumes were purged. Monitoring well construction diagrams and development logs are included in **Appendix E**.

2.2.3.2 Groundwater Sampling

As stated, groundwater grab samples from PDI-10 through PDI-16 were performed to further delineate and observe the contamination plume between Clay 2 and Clay 3 and subsequently, select the locations for permanent monitoring wells, MW-161-3 and MW-161-4. The groundwater samples collected from the permanent monitoring wells were collected to provide samples that are truly representative of the groundwater downgradient of the source area. Groundwater grab samples PDI-17, PDI-19 and PDI-20 were collected to characterize the groundwater contamination between Clay 2 and Clay 3 directly beneath the source area, to determine if impacts to groundwater exist beneath Clay 2 beyond the sample results (PDI-1) collected during Phase I.

In June and July 2018, CDM Smith collected grab samples through both the casing on the Geoprobe® and the Sonic drill rig. One groundwater grab sample was collected at each of the 10 locations (PDI-10 through PDI-17, PDI-19, PDI-20). No groundwater samples were collected at PDI-18 or PDI-23 through PDI-25 as these locations were advanced to a maximum depth of 30 feet bgs, which is roughly 30 feet above the water table. In addition, CDM Smith collected groundwater samples via low flow methodology using an inertial pump at three monitoring well locations (MW-161-1-I, MW-161-3, and MW-161-4). Low flow logs are provided in **Appendix E**. MW-161-1-I was an existing monitoring well installed by HDR during the RI in April 2011 but was later decommissioned by CDM Smith, as discussed in **Section 2.2.3.4**. Permanent monitoring wells, MW-161-3 and MW-161-4 were installed by CDM Smith in July 2018 as described in **Section 2.2.2.1**. The groundwater sample locations are shown on **Figure 2-3** and a groundwater sample summary is presented in **Table 2-1**.

All samples were analyzed for VOCs. Additionally, samples collected at MW-161-1-I, MW-161-3, and MW-161-4 were analyzed for poly-/per-fluorinated alkyl substances (PFAS) and 1,4-dioxane. PFAS samples were analyzed by the laboratory using USEPA Method 537 (modified) while 1,4-dioxane was analyzed using USEPA Method 8270 SIM. Groundwater sampled for VOCs, PFAS,

and/or 1,4-dioxane were sent to TA for analysis. The analytical results are presented in **Section 4.4.2**.

2.2.3.3 Slug Testing

In order to evaluate hydrogeological parameters that may impact the RD, hydraulic conductivity was determined via a standard slug test. Slug testing was intended to be performed at MW-161-1-S and MW-161-2-S during the October and November 2017 sampling event. Due to dry conditions in the existing wells during the October and November 2017 sampling event, slug tests were instead conducted at the newly installed wells MW-161-4 and MW-161-3. Between July 24 and 25, 2018, CDM Smith conducted standard slug tests at both MW-161-3 and MW-161-4, located approximately 130 feet west of the 301 Winding Road building within the OU-1 boundary. The slug was constructed of a solid core length of PVC pipe, 5 feet in length and 1.5 inches in diameter. A rising head test was conducted at each well location. As the water level was observed below the top of screen at each well location, falling head tests would yield non-representative results. Therefore, only rising head test results were used in the hydraulic conductivity calculations. Tests were repeated two times at each well. A pressure transducer (Level Troll by In-Situ) was used at each well to record changes in water level with respect to time. Water level data were downloaded to the WinSitu5 software on to a field laptop and analyzed off-site. Results of the slug testing were analyzed in AQTESOLV using the Bouwer and Rice solution and are presented in **Section 3.1.3**. Calculations are provided in **Appendix F**.

2.2.3.4 Monitoring Well Decommissioning

Two existing wells within the source area and one existing well north of the 161 Bethpage-Sweet Hollow Road building installed during the RI were abandoned in place in June 2018 during the PDI. The two wells within the source area, MW-301-01-S (total well depth of 66 feet bgs) and ALC-MW3 (total well depth of 60 feet bgs) were grouted to the surface. The well north of 161 Bethpage-Sweet Hollow Road, MW-161-1-I (total well depth of 95 feet bgs) was grouted to the surface, as well. All three wells were abandoned to limit their ability to continue to provide a contaminant migration pathway into the zones underlying the Clay 1 layer.

2.3 Phase III (March 2019)

The subsurface soil investigation performed under Phase II provided characterization of both Clay 1 and Clay 2, however due to obstructions within the on-site buildings during the investigation, characterization of Clay 1 beneath the 161 Bethpage-Sweet Hollow Road and 301 Winding Road buildings was missing. The primary intent of the Phase III PDI investigation was to provide a finer spatial detail of the extent of contamination in Clay 1 along the western and northern boundaries of the proposed TTZ, that was not fully characterized in the Phase II investigation due to obstruction issues. Due to the expense of operating a thermal treatment unit, NYSDEC and CDM Smith agreed the additional cost of conducting Phase III sampling to further refine the TTZ is justified.

2.3.1 Geophysical Survey and Subsurface Investigation

AGS conducted a GPR survey at the Site on March 6, 2019 to clear the proposed indoor drilling locations to be performed as a part of the Phase III sampling event and to identify any possible utilities or features within the subsurface of the proposed TTZ. The GPR survey was also

performed in this area to identify subsurface utilities or features that may affect the implementation of the ISTR within the source area. The specific areas included in this GPR survey were the most southern garage bay of 161 Bethpage-Sweet Hollow Road, the eastern extension of 301 Winding Road, and the paved area east of the 301 Winding Road extension. CDM Smith accompanied AGS during the survey.

AGS utilized a combination of GPR, radio frequency utility locating, and handheld metal detection methods to complete the survey. All 11 indoor locations identified in this investigation for drilling were cleared of identifiable utilities. AGS identified one unknown utility and the three dry wells, as indicated within the AGS report dated April 23, 2019 of **Appendix A.** The unknown utility were noted on the ground in survey paint during the sampling event. The areas for which the geophysical survey was requested, as well as, areas where utilities or features were identified within the AGS report dated April 23, 2019included in **Appendix A**.

During the GPR survey conducted during the Phase II field investigation, an unknown utility was noted within the 301 Winding Road extension. The GPR survey conducted during the Phase III field investigation did not indicate the previously identified unknown utility. The AGS personnel stated the signals noted within this area where not indicative of a utility or subsurface feature.

Prior to the Phase III subsurface soil investigation activities on March 11, 2019, Cascade utilized an air knife to identify the unknown utility identified during the GPR survey located northeast of the northeastern corner of the 301 Winding Road building. No utility was located within this area, during the air knife investigation. The presence of utilities or subsurface features within the proposed TTZ have the potential to affect the implementation of ISTR within the source area. It was previously indicated that piping existed between DW-7, DW-8, and DW-9 within the source area east of 301 Winding Road, however, GPR surveys did not indicate the presence of piping. On March 11, 2019, Cascade utilized the air knife to confirm or deny the presence of piping between the dry wells. An approximately 5-inch diameter PVC pipe connection was identified between DW-7 and DW-8, and between DW-8 and DW-9 at approximately 2.5 feet bgs. The approximate location of the connections is shown on **Figure 1-3**. Photodocumentation of the subsurface investigation is included in **Appendix D**.

2.3.2 Subsurface Soil

On March 12 and 13, 2019, Cascade advanced soil borings at 11 locations (PDI-26 through PDI-36) within the 161 Bethpage-Sweet Hollow Road and 301 Winding Road buildings, as well as, in between the two buildings using direct push drilling methods. The soil boring locations are shown on **Figure 2-2** and a soil sample summary table is presented in **Table 2-1**. The borings were screened for VOCs using a PID and the lithology was recorded at each location. Additionally, soil samples were collected for VOC analysis at depths above the Clay 1 layer at each location. The soil samples were sent to TA to be analyzed for VOCs via USEPA Method 8260C. The analytical results are provided in **Section 4.2.2**. Soil boring logs for all Phase III sample locations are presented in **Appendix B** and photodocumentation is presented in **Appendix D**.

2.4 Decontamination

All non-dedicated equipment and tools used to collect subsurface soil samples for chemical analysis were decontaminated prior to and between each sample interval using an Alconox and water mix for washing and potable water rinse prior to reuse. Decontamination fluids were collected and containerized in drums. All non-dedicated sampling equipment for chemical analyses were decontaminated per the CDM Smith Generic Quality Assurance Project Plan (QAPP) (CDM Smith, 2018) and all associated standard operating procedures.

2.5 Investigation Derived Waste

Investigation derived waste (IDW) generated from field activities consisted of both soil cuttings and groundwater. All soil cuttings generated from subsurface soil borings and groundwater purged from monitoring wells were containerized in 55-gallon drums for off-site disposal. The drums were securely stored within the parking lots of the 161 Bethpage-Sweet Hollow Road and 301 Winding Road properties prior to off-site disposal. Drums from waste generated during the Phase I sampling were removed from the Site on January 17, 2018. Drums from waste generated during the Phase II sampling were removed from the Site on October 4, 2018 and December 14, 2018. The drum from waste generated during the Phase III sampling will be removed from the Site in the summer of 2019. All waste was disposed as non-hazardous to either the Clean Water of New York facility in Staten Island, New York or Veolia ES Technical Solutions, LLC in Flanders, New Jersey. Coordination and transportation of the waste was performed by Brookside Environmental Inc. Waste manifests are provided in **Appendix G**.

2.6 Quality Assurance/Quality Control

2.6.1 Laboratory Analysis and Validation

All soil, groundwater and air samples were analyzed by TA, which is a NYSDOH-approved and ELAP-certified laboratory. **Table 2-1** provides a sample summary and the associated analytical parameters analyzed at each sampling location. NYSDEC Analytical Services Protocols Category B data deliverables are provided in **Appendix H**.

Indoor air, sub-slab vapor, and outdoor air SVI samples were all analyzed for VOCs via USEPA Method TO-15. Between all phases of groundwater sampling, groundwater samples were analyzed for VOCs via Method 8260C, PFAS via Method E537, and 1-4-dioxane via Method 8270C SIM. Between all phases of soil sampling, soil samples were analyzed for VOCs via Method 8260C, TOC via SM5310C, and ferrous iron via Method SM3500D.

All analytical data received from TA for samples collected in October and November 2017 were validated by an independent data validator, Data Validation of Greensboro, Vermont. Analytical data received from TA for samples collected in June 2018, July 2018, and March 2019 were validated by Data Validation Services of North Creek, New York. Validation was performed in accordance with NYSDEC Data Usability Summary Report (DUSR) guidance referenced in NYSDEC DER-10 (NYSDEC, 2010). The DUSRs are provided in **Appendix I**. No issues were identified that would affect the use of the soil, groundwater and air data.

2.6.2 Quality Assurance/Quality Control Samples

Quality assurance/quality control (QA/QC) samples include field duplicate samples, matrix spike/matrix spike duplicate (MS/MSD) samples, field blank (FB) samples, and trip blank (TB) samples. Field duplicate samples evaluate laboratory repeatability and MS/MSD samples evaluate matrix effects and the reliability of the analytical processes and equipment. FB samples are collected to evaluate the efficacy of equipment decontamination and general cleanliness of the field procedures while TB samples are provided to evaluate whether samples were contaminated by ambient conditions during transit from the project Site to the laboratory. Field duplicate, MS/MSD, FB, and TB samples were collected in accordance with the QAPP during each of the field investigation phases. **Table 2-1** presents each duplicate and its parent sample collected during the PDI. Analytical results for the QA/QC samples are included in **Appendix H**.

Section 3
Site-Specific Geology and Hydrogeology

3.1 Site Hydrogeology

A total of three synoptic rounds of groundwater measurements were collected by CDM Smith in January 2018, June/July 2018, and March 2019 from a maximum of 19 monitoring wells on Site. Measurements were taken to develop an understanding of groundwater flow patterns that may impact the RD and to confirm the groundwater measurements collected by HDR presented in the RIR. In January 2018 the groundwater elevation ranged from 60.9 to 62.07 feet amsl (depth to groundwater ranged from 67.8 to 75.01 feet bgs). The second round of synoptic groundwater measurements were collected in June and July of 2018 during the Phase II of the PDI field activities. Groundwater elevation ranged from 61.52 to 66.68 feet amsl (depth to groundwater ranged from 60.73 to 74.25 feet bgs). The third round of synoptic groundwater measurements were collected in March 2019 during the Phase III field investigation. Groundwater elevation ranged from 65.72 to 68.03 feet amsl (depth to groundwater ranged from 59.95 to 74.1 feet bgs). Groundwater elevation data for all synoptic rounds performed by CDM Smith, as well, as historic groundwater elevation data from HDR are included in **Table 3-1**. Groundwater contour plots showing the January 2018 elevations are presented in **Figure 3-1**. Groundwater contour plots showing the March 2019 elevations are presented in **Figure 3-2**. Limited access to onsite monitoring wells during the June/July 2018 synoptic round of water levels yielded a lack of representative groundwater data to be utilized for accurate groundwater contours for June/July 2018. Groundwater flow at the Site is generally to the southeast, as suggested by the synoptic measurement rounds.

Details about the slug testing performed on two monitoring wells, MW-161-3 and MW-161-4 in July 2018 are presented in **Section 2.2.3.3** and calculations are provided in **Appendix F**. MW-161-3 and MW-161-4 were screened in silty sand with some interbedded layers of clay and poorly graded sand. Results of the slug testing, analyzed in AQTESOLV Pro using the Bouwer and Rice Solution, yielded hydraulic conductivity estimates of between 0.401 feet/day in MW-161-4 and 0.606 feet/day in MW-161-3 with a geometric mean of 0.493 feet/day, all of which are representative of a medium sand with some interbedded silt (silty sand) and clay lenses, matching the interpolated lithology.

Using an effective porosity literature value for medium sand, the groundwater flow rate was estimated as follows:

$$V = \frac{Ki}{n}$$

Where: V = groundwater flow rate
K = hydraulic conductivity: 0.493 feet/day
i = gradient, 0.00530
n = effective porosity, assumed to be 28% or 0.28 (Morris and Johnson, 1967).

Using these values, the average linear velocity of groundwater (V) is calculated as follows:

$$V = \frac{(0.493 \text{ feet/day})*(0.00530)}{0.28}$$

$$V = 0.00934 \text{ feet/day}$$

$$V = 3.41 \text{ feet/year}$$

3.2 Site Geology and Lithology

During the PDI, lithology was recorded at each boring location in order to provide an accurate depiction of the general stratigraphy seen at the Site with the purpose of being included in the conceptual site model. The majority of the material seen at the Site is a fine to coarse sand with interbedded layers of silty sand and clay. All PDI borings performed by CDM Smith were generally advanced within the upper glacial aquifer. The lithology recorded at the Site was consistent with Upper Pleistocene glacial deposits typical of the upper glacial aquifer, observed within the vicinity of the Site. During the RI, one specific silty clay lenses was noted at the Site between 11 and 16 feet bgs among the sand with interbedded silty sand lenses. During the PDI, several silty sand lenses, as well as, three distinct clay lenses (Clay 1, Clay 2, and Clay 3) were observed within the subsurface of the Site boundary. The shallowest of the three distinct clay lenses, Clay 1 was consistent with the silty clay lens observed during the RI. Soil boring logs are included as **Appendix B**.

CDM Smith reviewed the bore logs provided in the HDR RIR, and two distinct clay layers were observed. The following is a summary of HDR's findings. During the RI, Clay 1, the shallow stiff orange, light gray silty clay layer was observed to be approximately 0.5 feet to 6 feet thick ranging from 11 to 16 feet bgs by HDR. Additionally, a deep submerged clay layer (Clay 3) was observed to be approximately 3 feet to 6 feet thick ranging from 79 to 91 feet bgs.

Further investigation during the PDI was performed to confirm this observed lithology. An additional intermediate clay lens (Clay 2) was observed during the PDI and the following discussion provides the details of the projected stratigraphy. Clay 1, estimated to be 0.5 feet to 6 feet thick, is located within the vadose zone at depths ranging from 12 to 28 feet bgs. Clay 2, estimated to be 0.5 foot to 5 feet thick, is located within both the lower vadose zone and is partially submerged beneath the water table, at depths ranging from 52 to 70 feet bgs. Historical water levels collected by HDR during the RI have shown that the water level was observed generally above where Clay 2 was observed during the PDI. Clay 3, estimated to be 0.5 feet to 8.5 feet thick, is submerged beneath the water table at depths ranging from 61.5 to 88 feet bgs. All three clay layers generally consisted of a light gray to gray stiff lean clay. The three clay layers at times exhibited both silt or sand banding. The three clay layers were most prominent (in thickness) in the source area beneath the paved area just east of the northeast corner of 301 Winding Road property. All three clay layers seem to pinch out moving east. Clay 2 was not observed at the most northeasterly boring locations performed during the PDI. Stratigraphic cross-sections based on field observations made at the PDI boring locations and observations made by HDR during the RI are discussed in **Section 4**.

Section 4
Nature and Extent of Contamination

The following sections present a summary of the soil, groundwater, and sub-slab vapor sampling results conducted as part of the PDI at the Site. As a preliminary evaluation, soil sample results were compared to the NYSDEC restricted commercial use SCOs and groundwater results were compared to NYSDEC TOGS 1.1.1 AWQS for Class GA groundwater. The SCOs used for the basis of design are discussed in Section 6. The State of New York does not have any standards, criteria or guidance for concentrations of volatile chemicals in subsurface vapors, however; NYSDEC uses NYSDOH guidance (i.e. the sub-slab vapor/indoor air matrices) to determine appropriate action limits depending on contaminant of concern, sub-slab results and indoor air results (NYSDOH, 2017).

4.1 Phase I (October 2017 – November 2017)

4.1.1 Summary of Soil Vapor Intrusion Sampling Results

Seven sub-slab soil vapor samples, seven indoor air samples and two outdoor air samples were analyzed by TA (USEPA Method TO-15). One duplicate sub-slab vapor sample was also collected. The NYSDOH has set air guidance values of 30 µg/m^3 for PCE, 2 µg/m^3 for TCE, and 60 µg/m^3 for methylene chloride (MeCl) in indoor and outdoor ambient air samples, which are presented and compared to the soil vapor intrusion sampling results in **Table 4-1**. In addition, the NYSDOH sub-slab vapor/indoor air matrices were used to evaluate the extent of human health impacts to further inform the RD.

All soil vapor intrusion sample analytical results are summarized in **Table 4-1** and the results are presented on **Figure 4-1**. A comparison of soil vapor intrusion results against the NYSDOH sub-slab vapor/indoor air matrices including the associated recommendations is presented in **Table 4-2**. Recommended actions based on the matrices are also summarized below:

- *TCE:* Matrix A recommended mitigation for the samples collected at SVI-161-1, SVI-161-2, SVI-161-3, SVI-301-1, SVI-301-2 and SVI-301-3. The action of identify the source(s) and resample or mitigate was identified for SVI-161-4.
- *PCE:* Matrix B recommended mitigation for the samples collected at SVI-301-1, SVI-301-2 and SVI-301-3. Monitoring was recommended for SVI-161-3 and no further action was identified for the remaining samples.
- *MeCl:* Matrix B recommended identification of source(s) and resampling or mitigation for the sample collected at SVI-161-2. All other sample results do not require further action.
- *Carbon Tetrachloride:* Matrix A recommended no further action for all sample locations.
- *1,1-Dichloroethene (1,1-DCE):* Matrix A recommended no further action for all sample locations.

- *1,1,1-TCA:* Matrix B recommended no further action for all sample locations.

Based on the results of SVI investigation and ROD requirements, mitigation is required for both 301 Winding Road and 161 Bethpage-Sweet Hollow Road. The data presented above will be utilized in determining the design of the SSDSs for the RD.

4.1.2 Summary of Subsurface Soil Sampling Results

The soils observed during the October and November 2017 PDI consisted primarily of fine to coarse sand. Clay 1, a distinct 1.5- to 2-foot-thick clay layer, was identified in the vadose zone at PDI-1, PDI-2, and PDI-3 at depths ranging from 16.5 to 19 feet bgs. At PDI-1 and PDI-2, a submerged clay layer (Clay 3) was observed at approximately 81.5 feet bgs and 75.5 feet bgs, respectively. Additionally, a 2- to 3-foot-thick silty clay layer (Clay 2) was identified at approximately 60 feet bgs (60 to 65 feet bgs) at PDI-1 through PDI-3. A PID was used to screen all borings. The highest PID reading was measured at PDI-1 at a depth of 34 feet bgs (21 parts per million [ppm]). The soil boring logs are included in **Appendix B** and field notes are provided in **Appendix C**.

A total of 10 soil samples and one field duplicate were collected from three borings (PDI-1, PDI-2, and PDI-5) during this phase of the PDI and analyzed for VOCs. No samples were collected at PDI-4 as the boring was terminated at 60 feet bgs, above any identifiable clay layer. Samples were not collected at PDI-3 since the initially targeted material at the Clay 3 layer was not sufficient for sample collection. Five samples and one duplicate sample were also collected and analyzed for TOC at PDI-1. Additionally, one MS/MSD sample was collected in the October-November 2017 sampling event for VOC analysis. The results were compared to restricted commercial use SCOs. The soil analytical results are summarized in **Table 4-3**. The soil analytical results from Clay 1 and Clay 2 are presented in **Figure 4-2A** and **Figure 4-2B**, respectively.

VOCs were detected in each of the three borings, however all concentrations were below restricted commercial use SCOs. Detections were observed for PCE, TCE, 1,1,1-TCA, 1,1-DCE, acetone, cis-1,2-DCE, MeCl, and methyl tert-butyl ether. The highest detections observed were for TCE, ranging from 10 micrograms per kilogram (µg/kg) in PDI-2 at a depth of 75.5 feet bgs to 32 µg/kg in PDI-1 at a depth of 83.5 feet bgs. These detections are well below the restricted commercial use SCO for TCE of 200,000 µg/kg (200 milligram per kilogram (mg/kg)). PCE detections ranged from 0.16 µg/kg to 4.8 µg/kg, well below the restricted commercial use SCO of 150,000 µg/kg (150 mg/kg). Non-aqueous phase liquid (NAPL) shake test field kits were used to assess the presence of NAPL at the top of the submerged clay layer; all tests indicated no NAPL was present.

TOC was detected in four of the five samples collected ranging from 1,040,000 µg/kg at a depth of 24 feet bgs to 6,610,000 µg/kg at a depth of 16 feet bgs. TOC, known to preferentially absorb VOCs present in the subsurface, is a parameter utilized in determining the potential performance requirements for in-situ remediation applications such as those being considered for this Site. These TOC results will be utilized in the preparation of the RD.

4.1.3 Summary of Groundwater Sampling Results

A total of five groundwater samples were collected, in addition to, one field duplicate sample and one MS/MSD sample during the October and November 2017 sampling event. One groundwater sample was collected from PDI-1, PDI-2 and PDI-3, while two groundwater samples were collected from PDI-5. Groundwater sampling results from this sampling event are presented in **Table 4-4** and shown on **Figure 4-3**. Cis-1,2-DCE, PCE and TCE were all detected above the AWQS at various locations at the following ranges:

- *Cis-1,2-DCE:* detected above the standard of 5 µg/L in PDI-5-GW-80-85-20171026 (9.1 µg/L) and the field duplicate GW-FD-01-20171026 (9.0 µg/L).
- *PCE:* detected above the standard of 5 µg/L in PDI-3-GW-80-85-20171024 (5.1 µg/L) and PDI-5-GW-80-85-20171026 and the duplicate sample GW-FD-01-20171026 (22 µg/L and 23 µg/L respectively).
- *TCE:* detected above the standard of 5 µg/L in PDI-2-GW-72-75-20171116 (9.9 µg/L), PDI-3-GW-80-85-20171024 (190 µg/L), PDI-5-GW-72-75-20171026 (23 µg/L), and PDI-5-GW-80-85-20171026 and the field duplicate sample GW-FD-01-20171026 (640 µg/L in both samples).

1,4-Dioxane was detected in both samples collected at PDI-1 and PDI-2, ranging from 0.27 µg/L in PDI-5 at a depth range of 72 to 75 feet bgs to 1.8 µg/L in PDI-1 at a depth of 75 feet bgs. NYSDEC does not currently have any standards or guidance values for 1,4-dioxane in groundwater. Additionally, no federal maximum contaminant level (MCL) has been established for 1,4-dioxane in drinking water. However, USEPA risk assessments indicate that a drinking water concentration of 0.35 µg/L represents a $1x10^{-6}$ risk (USEPA 2013). Additionally, the Drinking Water Quality Council (DWQC) recommended NYSDOH adopt a MCL of 1 µg/L for 1,4-dioxane. 1,4-Dioxane was detected above the recommended MCL in PDI-1, at a depth of 75 feet bgs.

4.2 Phase II (June 2018 – July 2018)

4.2.1 Summary of Subsurface Soil Investigation and Sampling Results

The soils observed during Phase II consisted primarily of fine to coarse sand. Clay 1 was identified as a distinct 1 to 4-foot thick clay layer in the vadose zone at PDI-6, PDI-7, PDI-8, PDI-9, PDI-12, PDI-13, PDI-14, PDI-15, PDI-18, PDI-19, PDI-20, PDI-23, PDI-24, and PDI-25 at depths ranging from 14 to 26 feet bgs. At PDI-10, PDI-13, PDI-14, PDI-15, PDI-16, PDI-17, and PDI-20 Clay 2 was identified as a distinct 1 to 3-foot thick clay layer in the vadose zone at depths ranging from 52 to 57 feet bgs. Clay 2 was not identified in the lower vadose zone at PDI-11 and PDI-12, however silty clay was also identified between 50 and 52 feet bgs. A 0.5 to 2-foot submerged clay layer what is anticipated to be a part of the Clay 2 layer was identified at PDI-13, PDI-14, PDI-15, PDI-19, and PDI-20 at depths ranging from 60 to 69 feet bgs. A PID was used to screen all borings. The highest PID reading was measured at PDI-16 at a depth of 43 feet bgs (280 ppm). The soil boring logs are included in **Appendix B** and field notes are provided in **Appendix C**.

A total of 17 soil samples and three field duplicates were collected from 16 locations (PDI-6 through PDI-10, PDI-13 through PDI-20, and PDI-23 through PDI-25) during this phase of the PDI and analyzed for VOCs. Additionally, three MS/MSD samples were collected during the June and July 2018 sampling event for VOC analysis. One sample was collected from the gray clay layer at

PDI-6 at a depth of 16 feet bgs. No samples were collected from PDI-11 or PDI-12 as no distinct Clay 2 layer was observed in the lower vadose zone. The results were compared to restricted commercial use SCOs. The soil analytical results are summarized in **Table 4-3** and shown on **Figure 4-2A** and **Figure 4-2B**.

VOCs were detected in each of the 16 locations, however all concentrations were below restricted commercial use SCOs. Detections were observed for PCE, TCE, 1,1,1-TCA, 1,1,2-trichloroethane, 1,2-dichlorobenzene, acetone, chloroform, cis-1,2-DCE, ethylbenzene, isopropylbenzene, 2-butanone, MeCl, trichlorofluoromethane, and total xylenes. The highest detections observed were for TCE, ranging from 0.38J µg/kg in PDI-15 at a depth of 52 feet bgs to 42,000 µg/kg in PDI-7 at a depth of 17 feet bgs. These detections are well below the restricted commercial use SCO for TCE of 200,000 µg/kg. PCE detections ranged from 0.34J µg/kg in PDI-16 at a depth of 55 feet bgs to 17,000 µg/kg in PDI-7 at a depth of 17 feet bgs, well below the restricted commercial use SCO of 150,000 µg/kg.

Six samples were collected from PDI-17, PDI-19, and PDI-20 and analyzed for ferrous iron. Results ranged from 880JL µg/kg in PDI-19 from 79 feet bgs to 6,200JL µg/kg in PDI-20 from 74 feet bgs.

4.2.2 Summary of Groundwater Sampling Results

A total of 13 groundwater samples, in addition to two field duplicate samples and two MS/MSD samples, were collected during the June and July 2018 sampling event. Groundwater grab samples were collected at 10 locations (PDI-10 through PDI-17, PDI-19, PDI-20) and groundwater samples were collected via low-flow methodology at three permanent monitoring well locations (MW-161-1-I, MW-161-3, and MW-161-4). Groundwater sampling results from this sampling event are presented in **Table 4-4** and shown on **Figure 4-3**. Ten of the 13 groundwater samples contained exceedances for certain VOC compounds. Cis-1,2-DCE, PCE and TCE were all detected above the AWQS at various locations at the following ranges:

- *Cis-1,2-DCE:* detected above the standard of 5 µg/L in PDI-19-WG-85-06282018 (17 µg/L) and PDI-MW-161-1-I-06262018 (13 µg/L).
- *PCE:* detected above the standard of 5 µg/L in PDI-MW-161-1-I-06262018 (15 µg/L).
- *TCE:* detected above the standard of 5 µg/L in PDI-10-WG-74-06182018 (9.4 µg/L), PDI-11-WG-75-06182018 and the field duplicate PDI-111-WG-75-06182018 (13 µg/L in both samples), PDI-13-WG-75-06212018 (8.5 µg/L), PDI-15-WG-75-06252018 (15 µg/L), PDI-16-WG-75-06262018 (85 µg/L), PDI-19-WG-85-06282018 (460 µg/L), PDI-20-WG-85-06292018 (14 µg/L), PDI-MW-161-1-I-06262018 (370 µg/L), MW-161-3-20180725 (54 µg/L), and MW-161-4-20180724 and the field duplicate MW-1161-4-20180724 (51 µg/L and 52 µg/L respectively).

1,4-Dioxane was not detected in any of the three samples collected at MW-161-1-I, MW-161-3, or MW-161-4, therefore 1,4-dioxane was not detected above the recommended DWQC MCL of 1 µg/L or the USEPA risk assessment drinking water concentration of 0.35 µg/L

Perfluorooctanoic acid (PFOA) and perfluorooctane sulfonic acid (PFOS) were detected in all three samples collected at MW-161-1-I, MW-161-3, and MW-161-4. The combined concentration

of PFOA and PFOS ranged from 0.023 µg/L to 0.036 µg/L. The PFOS concentration in the three samples ranged from 0.015 µg/L to 0.028 µg/L. The PFOA concentration ranged from 0.007 µg/L to 0.014 µg/L. At this time, NYSDEC does not have an AWQS for any PFAS compounds in groundwater. USEPA has established a health advisory level at 70 parts per trillion (ppt, 0.07 µg/L) for the combined concentrations of PFOA and PFOS (USEPA, 2016). All combined concentrations at the three existing wells were observed below the USEPA health advisory level. In late 2018, the DWQC also recommended NYSDOH adopt an MCL of 10 ppt (0.01 µg/L) for PFOS and 10 ppt (0.01 µg/L) for PFOA, individually. PFOS was detected above the recommended MCL in all three monitoring wells, MW-161-1-I, MW-161-3, and MW-161-4. PFOA was detected above the recommended MCL, in only MW-161-1-I.

4.3 Phase III (March 2019)

4.3.1 Summary of Subsurface Soil Sampling Results

The soils observed during Phase III consisted primarily of fine to coarse sand. Clay 1 was identified in the vadose zone at PDI-26 through PDI-36 at depths ranging from 13 to 18 feet bgs. A PID was used to screen all borings. The highest PID reading was measured at PDI-34 at a depth of 15 feet bgs (37.4 ppm). The soil boring logs are included in **Appendix B** and field notes are provided in **Appendix C**.

A total of 11 soil samples and one field duplicate were collected from Clay 1 at 11 locations during this phase of the PDI and analyzed for VOCs. Additionally, one MS/MSD sample was collected during the March 2019 sampling event for VOC analysis. The results were compared to restricted commercial use SCOs. The soil analytical results are summarized in **Table 4-3** and shown on **Figure 4-2A**.

VOCs were detected in each of the 11 locations, however all concentrations were below restricted commercial use SCOs. Detections were observed for PCE, TCE, 1,1,1-TCA, 1,2-dichlorobenzene, acetone, cis-1,2-DCE, MeCl, and vinyl chloride. The highest detections observed were for TCE, ranging from 2.3J µg/kg in PDI-28 at a depth of 16 feet bgs to 29 µg/kg in PDI-26 and PDI-30 at a depth of 17.5 feet bgs. These detections are well below the restricted commercial use SCO for TCE of 200,000 µg/kg. PCE detections ranged from 1.5J µg/kg in PDI-26 and PDI-30 at a depth of 17.5 feet bgs to 19 µg/kg in PDI-34 at a depth of 15 feet bgs, well below the restricted commercial use SCO of 150,000 µg/kg.

4.4 Conclusions

The following details the nature and extent of contamination conclusions:

- Historical and current analytical data have confirmed that high-concentration source material is present within and above the stiff gray lean clay of Clay 1 (at approximately 17 feet bgs) within the vadose zone. The maximum concentration observed was 1,000,000 µg/kg.
- The presence of both TCE and PCE (and to a lesser extent MeCl) at significant concentrations in sub-slab vapor and indoor air, in the 161 Bethpage-Sweet Hollow Road

and 301 Winding Road properties, support the ROD requirement for mitigation via engineering controls in both properties.

- The degree of contamination is Clay 2 is approximately four orders of magnitude less than that of Clay 1. TCE was observed at a maximum concentration of 400 µg/kg in the stiff gray lean clay of Clay 2, 40 feet beneath the source area in Clay 1.
- Historical groundwater samples collected from beneath the source area had a maximum TCE concentration of 2,500 µg/L (July 2011 from MW-301-1). Current groundwater samples under the source area yielded a maximum TCE concentration of 460 µg/L (July 2018 from PDI-19). In addition, the PDI groundwater sample that had highest concentration of TCE (640 µg/L) was located approximately 135 feet west of the source area (PDI-5) and was collected at a depth of 80 to 95 feet bgs, potentially indicating a second plume not associated with the discharge at 301 Winding Road. TCE concentrations observed during the PDI are all well within an order of magnitude of the cleanup goal of 400 µg/L.

Section 5
Conceptual Site Model

The physical setting, contaminant sources, migration pathways, and receptors were synthesized into the conceptual site model discussed below.

5.1 Physical Setting

The Upper Glacial Aquifer in the vicinity of the Site is dominated by fine to coarse sand and gravel with some thin local lenses of clay and silty zones. The low-permeability clay and silty zones were the focus of this PDI since they serve as controlling features in contaminant transport. The low-permeability lenses serve as reservoirs of contamination and are therefore the main targets for active remediation.

The shallowest clay layer observed at the Site, referred to as Clay 1 in this report, is of primary importance for the RD because it is the first large clay layer that contaminants discharged to the environment (likely through dry wells) encountered. This low-permeability clay lens lies within the Upper Glacial Aquifer approximately 17 feet bgs. It was generally observed to be firm, have relatively low plasticity, and relatively low moisture.

Two additional distinct clay layers (Clay 2 and Clay 3) were observed at the Site, at approximately 60 and 80 feet bgs, respectively. The elevation of the clay surfaces is not very consistent throughout the Site. The varying elevation of each of the clay surfaces indicates it is wrinkled or scoured, and therefore, not a flat surface.

The thickness of the clay layers also varies across the Site, as shown on **Figures 5-1A**, **5-1B, 5-1C and 5-1D**. In addition, recorded lithology indicated that all three clay layers decrease in thickness moving east at the Site. Clay 1 is where the contaminant source was observed. The bottom of dry wells DW-8 and DW-9 also reside at the top of Clay 1.

The groundwater elevation at the Site was generally observed between 60 and 70 feet during the RI and PDI. Recent groundwater elevation data collected during the PDI in 2018 indicated the groundwater was between an elevation of 61 and 62 feet amsl. Therefore, the water table was observed at or directly below the Clay 2 layer.

During RI activities in 2012, the water table was indicated to be at an elevation of approximately 68 to 70 feet amsl above the Clay 2 layer. The groundwater elevation consistently recorded in 2018 was approximately 6 to 8 feet below the recorded elevation in 2011 and 2012. It is possible that recorded groundwater elevations in 2012 were indicative of a perched groundwater above Clay 2.

Groundwater flow direction was consistent between the RI and the January 2018 PDI groundwater data. The intermediate flow direction is generally to the southeast. Hydraulic conductivity was measured at two wells located approximately 120 feet east of the source area.

The hydraulic conductivity was estimated to be between 0.401 and 0.607 feet/day, which was indicative of a medium sand with interbedded silt (silty sand) and clay lenses.

5.2 Contaminant Source

Data and observations collected during the PDI indicated that the ongoing source of groundwater contamination is high-concentration source material present in and above Clay 1 under the paved area just east of the northeast corner of 301 Winding Road and south of 161 Bethpage-Sweet Hollow Road. Based on the RI, it was determined that the contamination originated from one or more of the former dry wells within the Site. Dense non-aqueous phase liquid (DNAPL) was extracted during the VCA from one of the former dry wells (DW-9), it was stated in the 2013 RIR that over one percent TCE was observed in the bottom sediments of DW-9 prior to remediation (HDR, 2013a). Additionally, DW-7, an existing dry well investigated during the RI was stated to be the center of the highest contaminant concentrations in soil. Due to the significantly high levels of TCE observed in the soil specifically within Clay 1, it is reasonable to conclude that the DNAPL has migrated into the clay and exists on top of the clay in the depressions of the irregular clay surface.

Contamination in Clay 1 is the most obvious source of the VOC vapor detected in sub-slab and indoor air samples. Historical and PDI sample results for VOCs in Clay 1 are presented in **Figure 5-2**.

The groundwater data (**Figure 4-3**) indicates that a second plume may be entering the Site from upgradient. MW-161-I is upgradient of the known source zone described above yet had higher TCE concentrations than were detected during this PDI under the source zone. Additionally, the sample from MW-161-I had a higher mass fraction of PCE than the source zone samples, which would also indicate a separate source.

5.3 Migration Pathways

Several migration pathways were observed during the PDI and are described below.

- *Migration vertically downward onto Clay 1*: Concentrations indicative of DNAPL were present at the Clay 1 layer at several locations (ALC-MW3, ALC-MW3-NE, DB-301-2E, and DB-MW3-E), as indicated by the results presented by HDR in the RIR and portrayed on **Figure 5-1B** and **Figure 5-1C**. As contamination was discharged through the dry wells, Clay 1 is the first low-permeability zone that the contamination encountered as it traveled downward.

- *Vertical migration below Clay 1*: Contamination was detected in soil and groundwater samples below Clay 1, albeit at concentrations orders of magnitude lower than what was detected in Clay 1. These lower contaminations do not give the indication that a significant mass of DNAPL migrated below Clay 1 or is present below Clay 1. The contamination below Clay 1 may be due to relatively small amounts of historical DNAPL transport to this zone, or rain water infiltration coming from the dry wells carrying dissolved phase mass deeper.

- *Vapor migration*: VOCs were detected in sub-slab samples and indoor air samples. The elevated concentrations of VOCs in Clay 1 are likely serving as a source of VOC vapors into the vadose zone, which in turn are transported through advective air currents and vapor-phase diffusion in the vadose zone. Data collected during the RI indicated a lack of VOC detections above Clay 1, which aids in the suggestion that VOCs concentrations in Clay 1 are the main source of VOC vapors into the vadose zone and suggests that the piping present between the dry wells within the source area allowed direct discharge of the chlorinated solvents to Clay 1.
- *Mass discharge to groundwater and transport through advection*: Historical groundwater samples from underneath the source zone had a maximum TCE concentration of 2,500 µg/L (July 2011 from MW-301-1). MW-301-1 appeared to be screened across the low-permeability Clay 2 and serving as a conduit for contamination through this layer; this well was abandoned during this PDI. A groundwater sample was collected from under the source zone during the PDI and had a maximum TCE concentration of 460 µg/L (location PDI-19). Given these concentrations, there appears to be mass discharge to groundwater occurring from the overlying vadose zone under the source zone. However, the resulting groundwater concentrations from this mass discharge are only slightly above the cleanup goal of 400 µg/L.

5.4 Contaminant Fate

At all groundwater samples, TCE is the dominant contaminant, and the presence of biodegradation byproducts is limited. While mass is being lost from the subsurface due to volatilization, dilution, and dispersion, evidence for destructive natural attenuation (reductive microbial dechlorination) at the Site is sparse.

Section 6
Basis of Design

6.1 Remedial Action Objectives for OU-1

The goal for the selected remedy is to restore the Site to pre-disposal conditions to the extent feasible. The specific RAOs for soil, groundwater, and soil vapor at the Site, as stated in the 2013 ROD, are:

Groundwater

- RAOs for Public Health Protection
  - *Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.*
  - *Prevent contact with, or inhalation of volatiles, from contaminated groundwater.*
- RAOs for Environmental Protection
  - *Restore groundwater aquifer to pre-disposal/pre-release conditions, to the extent practicable.*
  - *Remove the source of ground or surface water contamination.*

Soil

- RAOs for Public Health Protection
  - *Prevent ingestion/direct contact with contaminated soil.*
  - *Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.*
- RAOs for Environmental Protection
  - *Prevent migration of contaminants that would result in groundwater or surface water contamination.*

Soil Vapor

- RAOs for Public Health Protection

  Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

6.2 Record of Decision Requirements

As previously stated, the ROD issued for OU-1 included a selected remedy consisting of a RD program, ISTR, AS/SVE, SSDSs (or similar engineered systems within 301 Winding Road and 161 Bethpage-Sweet Hollow Road), institutional controls, and a Site Management Plan.

This basis of design is intended to discuss the remediation strategy for implementing the abovementioned elements of the selected remedy as discussed in the ROD.

6.3 Remediation Strategy

6.3.1 Vadose Zone

The ROD does not state the specific soil cleanup objective that ISTR must achieve in the vadose zone. **Table 6-1** shows the SCOs listed in NYSDEC Subpart 375-6.8(a) and 375-6.8(b), including SCOs for unrestricted use and restricted use. The NYSDEC non-site-specific (default) protection of groundwater SCO is shown, as well as a calculated site-specific protection of groundwater SCO. Note that the default protection of groundwater SCO is the same as the unrestricted use SCO.

The site-specific protection of groundwater SCO is a soil concentration that, after partitioning of the vadose zone soil contaminants to infiltrating rainwater, does not create an exceedance of the groundwater cleanup goal of 400 µg/L. This SCO is the product of the fraction of organic carbon measured in the soils from the site (**Table 4-3**), a dilution-attenuation factor of 20, the organic carbon partition coefficient, and the groundwater cleanup goal of 400 µg/L. The dilution/attenuation factor used is the USEPA standard dilution-attenuation factor in sandy soils, which has a value of 20. The USEPA standard organic carbon partition coefficient values for each contaminant were used in the calculations (USEPA, 1996). Contaminant specific values are shown in **Table 6-2** and calculations are shown in **Appendix J.**

Restricted commercial use SCOs are higher than the site-specific protection of groundwater SCOs. Restricted use SCOs would therefore not meet the RAOs for the site. Cleaning up the vadose zone to unrestricted use SCOs or the site-specific protection of groundwater SCO would meet RAOs, provide adequate protection of groundwater, and significantly reduce the ongoing source of vapor intrusion in the site buildings. ISTR is anticipated to have the capacity to remediate the soil to below either of these SCOs. The extent of the treatment zone is discussed in Section 6.4 below.

Clay 1, the approximately 1- to 7-foot-thick clay underlying the Site at around 17 feet bgs, holds the reservoir of DNAPL contamination that will be targeted for remediation. ISTR facilitates the mobilization of chlorinated VOCs over a wide range of concentrations in groundwater and soil through desorption and volatilization. ISTR is very effective in heterogeneous and low-permeability soils.

ISTR will not be extended deeper than Clay 1 because deeper soil concentrations were orders of magnitude lower than in Clay 1, and no secondary source of contamination continuously contributing to significant groundwater contamination was detected.

6.3.2 On-Site Vapor Intrusion

SSDSs will be installed in 161 Bethpage-Sweet Hollow Road and 301 Winding Road to protect indoor air receptors and achieve RAOs. SSDS design and implementation may be performed independently of ISTR. It will likely require coordination during ISTR activities, and the necessary extent of the SSDSs may be less following ISTR.

6.3.3 On-Site Groundwater

The selected remedy in the ROD for on-site groundwater was AS and SVE. No AS/SVE is included in this remediation strategy for three reasons:

1. Clay layers were observed at the water table (Clay 2 and Clay 3). AS/SVE implementation would be difficult because the clay layers are low-permeability layers would block air bubbles from the AS rising into the vapor collection zone in the vadose zone.

2. Only one groundwater sample around the source zone was observed above 400 µg/L. The groundwater data did not point to a large volume of groundwater contamination that could be remediated with active treatment.

3. Following the implementation of ISTR in the vadose zone, the source of groundwater contamination will have been remediated to the extent practicable. In addition, residual groundwater contamination moving off-site is expected to be remediated as a part of an OU-2 remedial action.

6.4 Treatment Zone

As discussed in Section 6.3.1 above, using either the unrestricted use SCO or the site-specific protection of groundwater SCO is needed to achieve RAOs. **Figure 6-1** presents the areal extent of the treatment zone encompassing soil above the unrestricted use SCOs. Figure 6-1 presents concentrations in Total VOCs; but for all intents and purposes, the overwhelming constituents making up total VOCs are TCE and PCE. The combined unrestricted use SCOs and site-specific protection of groundwater SCOs for these two contaminants are 1,770 µg/kg and 18,984 µg/kg, respectively. There are few locations that have concentrations between these two values. This means that the drawn treatment zones for each of these SCOs would not be materially different. Since this is the case, it is reasonable to err on the side of caution and have unrestricted use as the remedial goal for soils.

The areal extent of the treatment zone is approximately 1,420 square feet and encompasses the area of soil above the unrestricted use SCO. The depth of the treatment zone is to the bottom of Clay 1, approximately 17 feet bgs.

The buildings requiring SSDSs are also shown on **Figure 6-1**.

6.5 In-situ Thermal Remediation Design Components

The RD for ISTR will include both prescriptive and performance-based requirements. Prescriptive requirements of the ISTR treatment operations are provided to fully utilize the site-specific information collected during the PDI; performance-based requirements will be provided for other operations to allow the Remedial Action contractor to maximize their expertise. Note

historical building records and survey drawings for both 161 Bethpage-Sweet Hollow Road and 301 Winding Road procured from the Town of Oyster Bay are included as **Appendix K**.

Prescriptive design requirements are anticipated for the following:

- Concentration-based performance targets
- Boundaries of the treatment zone, including depth
- Baseline and performance sampling and analysis

Performance-based requirements are anticipated for the following:

- Mobilization/demobilization
- Construction of a staging area and decontamination pad
- Design, construction, and operation of the thermal remediation system, including:
    - Energy needs
    - Heating points and vapor extraction points
    - Piping and blowers
    - Above ground treatment system
    - Waste management
    - Heating operations

6.6 Sub-slab Depressurization System Design Components

Vapor sampling results are shown on **Figure 4-1**. SSDSs are to be installed for the entirety of the two buildings on the site:

- 161 Bethpage-Sweet Hollow Road
- 301 Winding Road

The components of the SSDS design are anticipated to be as follows:

- Performance of a communication test to determine the radius of influence and properly design and size the SSDSs in accordance with NYSDOH guidelines,
- Evaluation of the current electrical supply and demand that may be needed and determine if additional capacity is needed,
- Sufficient sub-slab extraction points for each of the buildings to provide a cumulative depressurization footprint that encompasses each building footprint,
- Piping as well as conveyance piping system on the walls and within the existing ceiling,

- Fan(s), with enclosures if deemed necessary,
- Connection of the system to the existing electric at the Site.

6.7 Site Access and Security

CDM Smith anticipates that the NYSDEC will assist in securing any required site access to complete the remediation work at the Site. If necessary, a site access agreement will be prepared and provided to the relevant party for review and approval. The site agreement will specify the planned activities, tentative schedule, traffic control, and coordination and notification requirements.

6.8 Energy Availability for ISTR

ISTR requires energy for operation. Different ISTR technologies rely on different energy sources: electrical power can be used for either electrical resistance heating (ERH) or thermal conductive heating (TCH), and petroleum hydrocarbons (typically natural gas or liquified propane gas) can be used for TCH only. At the site, PSEG Long Island is the utility managing the distribution of electricity, and National Grid manages natural gas distribution. CDM Smith contacted various thermal treatment vendors to determine planning-level electricity needs for ERH and planning-level natural gas needs for TCH. The vendors were provided information on approximate area and depth of the TTZ and contaminant of concern to estimate power/energy requirements.

A planning-level estimate of electricity needs for the ERH is 800 amperes at 480 volts. Conversations with James Domozych, a Lead Design Engineer in PSEG Long Island's Distribution Design group confirmed on March 1, 2019 the local distribution lines near 301 Winding Road have the capacity to handle the additional electrical that would be needed for ERH. Additionally, PSEG Long Island will generate a specification letter once the load is determined that is then brought to an independent electrical contractor to complete the work. In other words, the actual connection is not provided by PSEG Long Island, but rather by an electrician hired by the project owners and/or operators. In theory, this structure reduces the time required to receive service for the project. Once the electrical contractor is selected, a Commercial/ Industrial Load Letter would need to be filled out with PSEG Long Island. The Load Letter requires information on the service characteristics, total load required, and the electrical contractor contracted to perform any necessary upgrades. A blank Commercial/ Industrial Load Letter is provided in **Appendix L**. A new separately metered service would be set up for the duration of the project.

A planning-level estimate of natural gas needs for the TCH is approximately 4,300 million British Thermal Units (MMBTU), with a peak demand of 40 MMBTU per day. In order to meet this peak demand, a service upgrade to the entirety Long Island must first be completed. Conversations with the National Grid Account Manager for the 301 Winding Road property, Dylan Doyle, revealed challenges in upgrading natural gas service. Any project over 2 MMBTU will require a service upgrade to the property and is feasible for this ITRC project. However, keeping in mind the planning-level estimate for peak demand for this ITRC project is 40 MMBTU, Mr. Doyle stated that any project over 15 MMBTU will not be approved until a decision is made for the Northeast Supply Enhancement Project (NESE). This project will expand the Transco pipeline to the Northeast coast, including Long Island, and allow National Grid to utilize natural gas from

Pennsylvania. On May 15, 2019 New York State environmental regulators denied a permit for the proposed 24-mile underwater pipeline. On June 5, 2019 New Jersey State regulators also denied permits for the underwater pipeline. NESE can reapply for the permits but a timeframe for the project is unknown. In the event a service upgrade is approved, a Gas Load Letter must be submitted to National Grid including information on equipment and, if required, an independent plumber hired by the project owners and/or operators to conduct any pipework. A blank Gas Load Letter is provided in **Appendix L**. A new separately metered service would be set up for the duration of the project.

6.9 Stormwater Management

Three inter-connected drywells are present in and around the treatment zone for managing stormwater (described in Section 2.3.1). This infrastructure would interfere with the efficient operation of ISTR because the void space in the drywells would provide preferential pathways for the volatilizing contaminants from Clay 1, and it would likely be challenging to maintain pneumatic control on these drywells. Additionally, the interconnecting PVC pipes would be damaged during heating, and infiltrating stormwater may quench the treatment zone, which would slow heating.

The design needs to take into account the existing stormwater infrastructure and need for stormwater management during and after the remediation. The functions for stormwater management that need to be addressed during design include:

- Ensure infrastructure does not interfere with effectiveness/constructability/operations of thermal remedy.
- Collect stormwater during operations from the treatment zone (given existing infrastructure will likely be removed).
- Convey stormwater away from the thermal treatment zone during operations (to avoid quenching).
- Provide a means to discharge water from the thermal treatment operations to an acceptable and permitted outlet.
- After remediation is complete, provide stormwater drainage that meets site needs and complies with permitting requirements.

6.10 Permitting

It is anticipated that state and local permits will be required to implement the remediation work at the Site. The types of permits the remedial contractor will need to obtain in order to complete this work include, but are not limited to:

- Municipal permits may be needed for installation and new wells. All drilling and monitoring well installation activities will be completed by a New York State licensed well driller.
- Municipal hydrant permits will be obtained so that nearby fire hydrants can be utilized as a water supply, as necessary.
- Municipal permits will be obtained for drywell abandonment/reconstruction, if needed.
- Air permits will be required for the ITRC vapor discharge

- A State Pollution Discharge Elimination System permit will be obtained by the remedial contractor for discharging stormwater
- Finally, permits may be required for disposing of used filters and granular activated carbon from the ISTR unit.

6.11 Waste Management

Waste generated during the remedial action will consist of soil cuttings and trash. The waste will be contained, analyzed and properly disposed. Based on the waste characterization during the PDI, the soil cuttings will likely be non-hazardous.

6.12 Monitoring

Further details regarding monitoring activities will be provided in the design documents. The purpose of monitoring will be to evaluate the performance of the thermal remediation and the performance of the SSDS. In particular for ISTR, performance metrics will include achieving required soil concentrations (SCOs), maintaining pneumatic control of area under treatment, maintaining thermal system uptime, and others.

Section 7

References

CDM Smith, 2018. Generic Quality Assurance Project Plan (NYSDEC Standby Contract No. D007621). January 2018.

HDR, 2013a. Remedial Investigation Report Former Aluminum Louvre Corporation (NYSDEC Site Number 130195) Volume 1 – Report. Old Bethpage, Nassau County. January 2013.

HDR, 2013a. Remedial Investigation Report Former Aluminum Louvre Corporation (NYSDEC Site Number 13-195) Volume 2 – Appendices A-I. Old Bethpage, Nassau County. January 2013.

HDR, 2013b. Feasibility Study Report Former Aluminum Louvre Corporation (NYSDEC Site Number 130195). Old Bethpage, Nassau County. February 2013.

Morris, D.A., and Johnson, A.I., 1967. Summary of Hydrologic and Physical Properties of Rock and Soil Materials, as Analyzed by the Hydrologic Laboratory of the U.S. Geological Survey 1948-60, United States Geological Survey Water-Supply Paper 1839-D, United States Government Printing Office, Washington, D.C. 1967.

New York State Department of Environmental Conservation (NYSDEC), 2010. Final DER-10 Technical Guidance for Site Investigation on Remediation. May 2010.

New York State Department of Environmental Conservation (NYSDEC), 2013. Record of Decision Former Aluminum Louvre Corporation, Operable Unit Number 01: On-Site Contamination. State Superfund Project. Old Bethpage, Nassau County. Site No. 130195. March 2013.

New York State Department of Health (NYSDOH), 2006. Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York. October 2006.

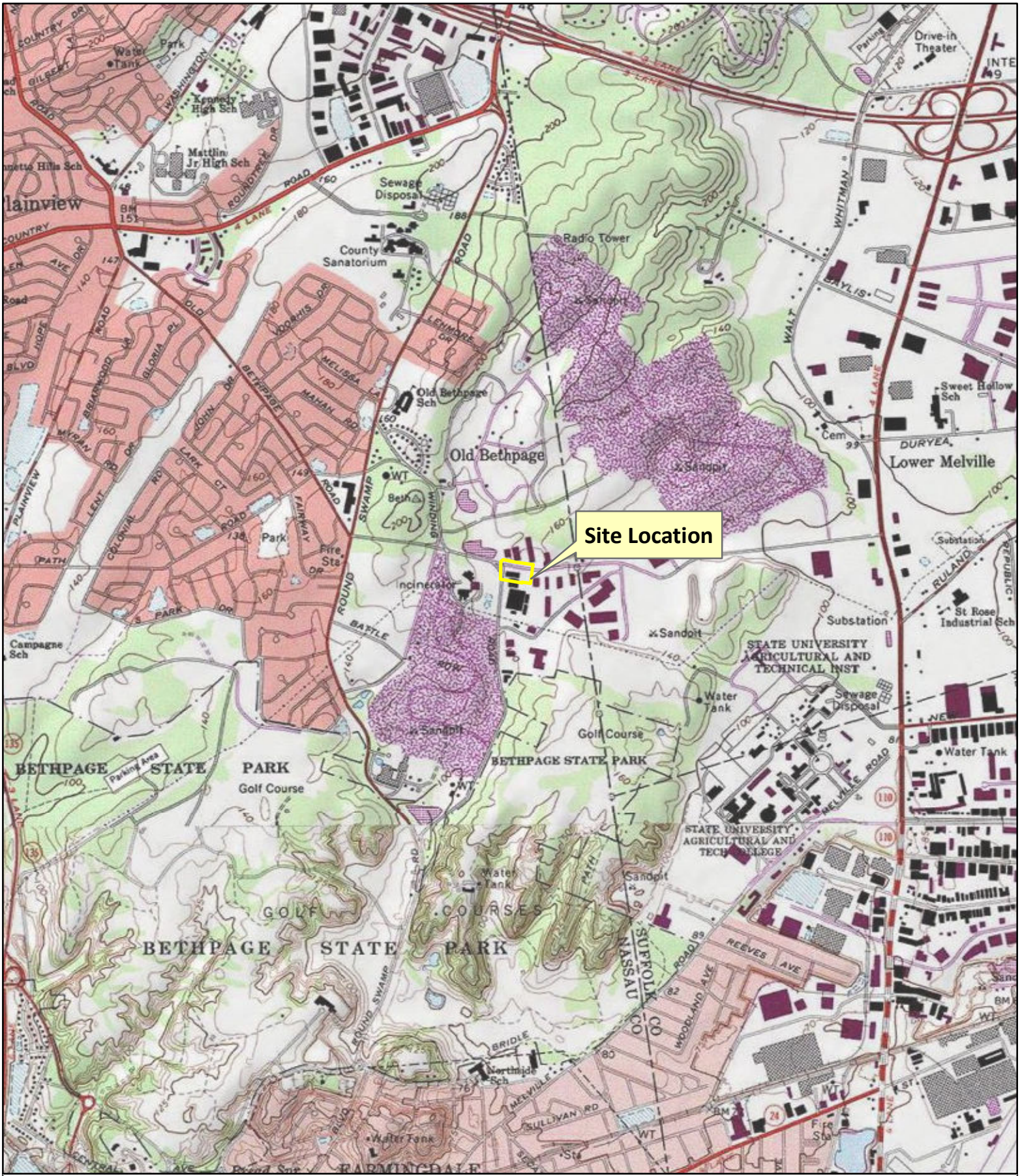
Smolensky, D.A., Buston, H.T., and Shernoff, P.K., 1989. Hydrologic framework of Long Island, New York. U.S. Geological Survey Hydrologic Investigations Atlas HA-709, scale: 1:250,000, 3 sheets. 1989.

U.S. Environmental Protection Agency (USEPA), 1996. Soil Screening Guidance: Technical Background Document. Washington, DC. May 1996.

U.S. Environmental Protection Agency (USEPA), 2013. Toxicological review of 1,4-Dioxane (with inhalation update) (CAS No. 123-91-1) in support of summary information on the Integrated Risk Information System (IRIS). Washington, DC. August 2013.

U.S. Environmental Protection Agency (USEPA), 2016. Fact Sheet: PFOA and PFOS Drinking Water Health Advisories. Washington, DC. November 2016.

Figures



N

Site Vicinity Map

1 inch = 2,000 feet

0 1,000 2,000 3,000 4,000 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 1-1

CDM Smith

estradal C:\Users\estradal\Desktop\FAL PDI Figures\Fig1-1_Site_Vicinity.mxd 1/19/2018

N

Site Location Map

1 inch = 50 feet

0 25 50 100 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 1-2

CDM Smith

HARROLDAM \\ALBSVR2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig1-2_Site_Location_Map.mxd 4/25/2019

N

Notes:
1. DTW- depth to water
2. DTB - depth to bottom
3. All measurements are in feet below ground surface.
4. Historical naming conventions for dry wells aside from DW-7, DW-8, and DW-9 are unknown.
5. All DTW and DTB measurements were collected in October 2017.

Pre-Design Investigation Dry Well Location Map

1 inch = 30 feet

0 15 30 60 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 1-3

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig1-3_PDI_DryWell_Location_Map.mxd 6/7/2019

N

Pre-Design Investigation Soil Vapor Intrusion Sample Location Plan

1 inch = 30 feet

0 15 30 60 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 2-1

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig2-1_PDI_Soil_Vapor_Intrusion_SampLocPlan.mxd 4/25/2019

N

Pre-Design Investigation Soil Boring Location Plan

1 inch = 15 feet

0 7.5 15 30 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 2-2

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig2-2_PDI_Soil_Boring_Locations_Plan.mxd 4/25/2019

N

Pre-Design Investigation Groundwater Sample Location Plan

1 inch = 30 feet

0 15 30 60 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 2-3

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig2-3_PDI_Groundwater_Sampling_Locations_Plan.mxd 4/25/2019

N

Groundwater Contours - January 2018

1 inch = 32 feet

0 16 32 64 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 3-1

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig3-1_Groundwater_Elev_Jan2018.mxd 4/25/2019

N

Groundwater Contours - March 2019

1 inch = 70 feet

0 35 70 140 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 3-2

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig3-2_Groundwater_Elev_Mar2019.mxd 4/25/2019

SVI-161-3-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-161-3-IA-20171114	SVI-161-3-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	5.4
1,1-DCE	ND	ND
PCE	3.1	230
TCE	**3.4**	16
Methylene Chloride	0.44J	1.4J
Carbon Tetrachloride	0.39J	0.11J

SVI-161-2-SS/IA	11/15/2017	11/15/2017
Sample ID	SVI-161-2-IA-20171115	SVI-161-2-SS-20171115
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	7.2
1,1-DCE	ND	ND
PCE	ND	420
TCE	ND	91
Methylene Chloride	ND	ND
Carbon Tetrachloride	ND	ND

SVI-161-1-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-161-1-IA-20171114	SVI-161-1-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	22
1,1-DCE	ND	ND
PCE	ND	360
TCE	1.2	1200
Methylene Chloride	0.60J	ND
Carbon Tetrachloride	0.10J	ND

SVI-161-4-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-161-4-IA-20171114	SVI-161-4-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	0.37J
1,1-DCE	ND	ND
PCE	1.9	8.8
TCE	**3.1**	5.5
Methylene Chloride	0.40J	ND
Carbon Tetrachloride	0.42J	0.28J

SVI-161-1-OA	11/15/2017
Sample ID	SVI-161-1-OA-20171115
Sample Type	Outdoor Air
1,1,1-TCA	ND
1,1-DCE	ND
PCE	0.19J
TCE	ND
Methylene Chloride	ND
Carbon Tetrachloride	0.40J

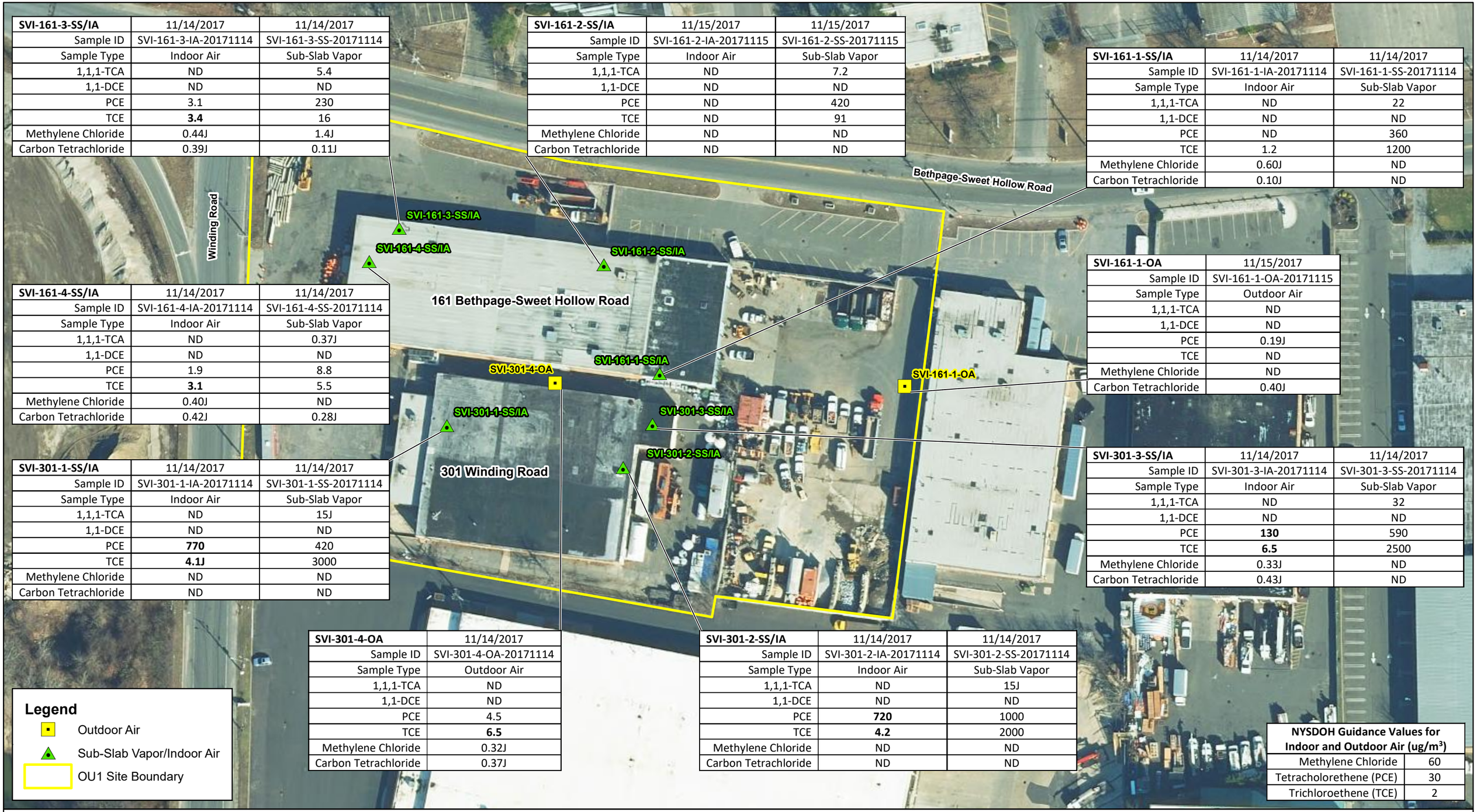
SVI-301-1-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-301-1-IA-20171114	SVI-301-1-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	15J
1,1-DCE	ND	ND
PCE	**770**	420
TCE	**4.1J**	3000
Methylene Chloride	ND	ND
Carbon Tetrachloride	ND	ND

SVI-301-3-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-301-3-IA-20171114	SVI-301-3-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	32
1,1-DCE	ND	ND
PCE	**130**	590
TCE	**6.5**	2500
Methylene Chloride	0.33J	ND
Carbon Tetrachloride	0.43J	ND

SVI-301-4-OA	11/14/2017
Sample ID	SVI-301-4-OA-20171114
Sample Type	Outdoor Air
1,1,1-TCA	ND
1,1-DCE	ND
PCE	4.5
TCE	**6.5**
Methylene Chloride	0.32J
Carbon Tetrachloride	0.37J

SVI-301-2-SS/IA	11/14/2017	11/14/2017
Sample ID	SVI-301-2-IA-20171114	SVI-301-2-SS-20171114
Sample Type	Indoor Air	Sub-Slab Vapor
1,1,1-TCA	ND	15J
1,1-DCE	ND	ND
PCE	**720**	1000
TCE	**4.2**	2000
Methylene Chloride	ND	ND
Carbon Tetrachloride	ND	ND

NYSDOH Guidance Values for Indoor and Outdoor Air (ug/m^3)	
Methylene Chloride	60
Tetracholorethene (PCE)	30
Trichloroethene (TCE)	2



Legend

- Outdoor Air
- Sub-Slab Vapor/Indoor Air
- OU1 Site Boundary

N

Notes:

1. Bolded results have exceeded NYSDOH guidance values for indoor and outdoor air
2. ID - identification
3. B - analyte detected in method blank
4. J - concentration is estimated
5. ND - non-detect
6. 1,1,1-TCA - 1,1,1-trichloroethane
7. 1,1-DCE - 1,1- dichloroethene
8. PCE - tetrachloroethene
9. TCE - trichloroethene
10. All results reported in micrograms per cubic meter.

Pre-Design Investigation
Soil Vapor Intrusion Sample Results

1 inch = 65 feet

0 32.5 65 130 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 4-1

CDM Smith

PDI-26	3/12/2019
Sample ID	PDI-26-SO-17.5-031219
Depth (ft bgs)	17.5
PCE	1.5 J
TCE	29
cis-1,2,-DCE	4.4 J

PDI-27	3/12/2019
Sample ID	PDI-27-SO-17-031219
Depth (ft bgs)	17
PCE	ND
TCE	ND
cis-1,2,-DCE	ND

PDI-24	7/25/2018
Sample ID	PDI-24-SO-18-20180725
Depth (ft bgs)	18
PCE	0.91 J
TCE	20
cis-1,2,-DCE	ND

PDI-23	7/25/2018
Sample ID	PDI-23-SO-18-20180725
Depth (ft bgs)	18
PCE	ND
TCE	3.2 J
cis-1,2,-DCE	ND

PDI-28	3/12/2019
Sample ID	PDI-28-SO-16-031219
Depth (ft bgs)	16
PCE	ND
TCE	2.3 J
cis-1,2,-DCE	ND

PDI-30	3/12/2019
Sample ID	PDI-30-SO-17.5-031219
Depth (ft bgs)	17.5
PCE	1.5 J
TCE	29
cis-1,2,-DCE	4.9

PDI-31	3/12/2019
Sample ID	PDI-31-SO-17.5-031219
Depth (ft bgs)	17.5
PCE	ND
TCE	21
cis-1,2,-DCE	3.7 J

PDI-29	3/12/2019
Sample ID	PDI-29-SO-17.5-031219
Depth (ft bgs)	17.5
PCE	ND
TCE	9.8
cis-1,2,-DCE	ND

PDI-9	6/13/2018
Sample ID	PDI-9-SO-17-06132018
Depth (ft bgs)	17
PCE	ND
TCE	ND
cis-1,2,-DCE	ND

PDI-33	3/13/2019
Sample ID	PDI-33-SO-13-031319
Depth (ft bgs)	13
PCE	ND
TCE	2.7 J
cis-1,2,-DCE	ND

PDI-32	3/12/2019
Sample ID	PDI-32-SO-16-031219
Depth (ft bgs)	16
PCE	ND
TCE	ND
cis-1,2,-DCE	ND

PDI-18	6/13/2018
Sample ID	PDI-18-SO-21-06282018
Depth (ft bgs)	21
PCE	27
TCE	17
cis-1,2,-DCE	1.7

PDI-6	6/13/2018
Sample ID	PDI-6-SO-16-06132018
Depth (ft bgs)	16
PCE	ND
TCE	170 J
cis-1,2,-DCE	1 JL

PDI-34	3/13/2019
Sample ID	PDI-34-SO-15-031319
Depth (ft bgs)	15
PCE	19
TCE	19
cis-1,2,-DCE	6.1

PDI-7	6/13/2018
Sample ID	PDI-7-SO-17-06132018
Depth (ft bgs)	17
PCE	17000 THT
TCE	42000 THT
cis-1,2,-DCE	1000 THT

PDI-25	6/13/2018
Sample ID	PDI-25-SO-14-20180725
Depth (ft bgs)	14
PCE	ND
TCE	2.5 J
cis-1,2,-DCE	ND

PDI-36	3/13/2019
Sample ID	PDI-36-SO-13.5-031319
Depth (ft bgs)	13.5
PCE	ND
TCE	ND
cis-1,2,-DCE	ND

PDI-35	3/13/2019
Sample ID	PDI-36-SO-14-031319
Depth (ft bgs)	14
PCE	1.6 J
TCE	2.7 J
cis-1,2,-DCE	0.75 J

PDI-8	6/13/2018
Sample ID	PDI-8-SO-17-06132018
Depth (ft bgs)	17
PCE	ND
TCE	ND
cis-1,2,-DCE	ND

Legend
Soil Boring Location - Total VOCs (ug/kg)
- Non-Detect
- 0 - 10
- 10 - 25
- 25 - 250
- 250 - 500
- 500 - 1000
- 1000 - 10000
- 10000 - 70000
- OU1 Site Boundary

N

Notes:
1. All results in micrograms per kilogram (ug/kg)
2. VOCs - volatile organic compounds
3. ft bgs - feet below ground surface
4. PCE - tetrachloroethene
5. TCE - trichloroethene
6. cis-1,2-DCE - cis-1,2-dichloroethene
7. ND - non-detect
8. J - estimated
9. H - biased high
10. L - biased low
11. T - quality control parameter has exceeded lab limits

Pre-Design Investigation Soil Boring Locations Plan - Total VOCs in Clay 1

1 inch = 20 feet

0 10 20 40 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 4-2A

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig4-2A_PDI_Soil_Boring_Locations_Plan-Total_VOCs_in_Clay1.mxd 6/7/2019

PDI-17	6/27/2018
Sample ID	PDI-17-SO-60-06272018
Depth (ft bgs)	58
PCE	2.5
TCE	110
cis-1,2,-DCE	5.8

PDI-20	6/29/2018
Sample ID	PDI-20-SO-73-06292018
Depth (ft bgs)	73
PCE	34
TCE	400
cis-1,2,-DCE	11

PDI-10	6/18/2018
Sample ID	PDI-10-SO-57-06182018
Depth (ft bgs)	57
PCE	ND
TCE	17 JL
cis-1,2,-DCE	ND

PDI-19	6/28/2018
Sample ID	PDI-19-SO-79-06282018
Depth (ft bgs)	79
PCE	0.38 J
TCE	9.8
cis-1,2,-DCE	0.24 J

PDI-13	6/21/2018
Sample ID	PDI-13-SO-53-06212018
Depth (ft bgs)	53
PCE	0.8 J
TCE	27
cis-1,2,-DCE	1.1

PDI-14	6/22/2018
Sample ID	PDI-14-SO-55-06222018
Depth (ft bgs)	55
PCE	0.5 JL
TCE	8.5 JL
cis-1,2,-DCE	0.3 JL

PDI-15	6/25/2018
Sample ID	PDI-15-SO-52-06252018
Depth (ft bgs)	52
PCE	ND
TCE	0.38 J
cis-1,2,-DCE	ND

PDI-16	6/26/2018
Sample ID	PDI-16-SO-55-06262018
Depth (ft bgs)	55
PCE	0.34 J
TCE	1.1
cis-1,2,-DCE	ND

PDI-5	10/25/2017
Sample ID	PDI-5-SO-68-20171025
Depth (ft bgs)	68
PCE	48
TCE	180
cis-1,2,-DCE	0.88

Legend
Soil Boring Location
- Total VOCs (ug/kg)

- Non-Detect
- 0 - 10
- 10 - 25
- 25 - 250
- 250 - 500
- 500 - 1000
- 1000 - 10000
- 10000 - 70000
- Drill Rig Location for Inclined Borings
- OU1 Site Boundary

N

Notes:
1. All results in micrograms per kilogram (ug/kg)
2. VOCs = volatile organic compounds
3. ft bgs = feet below ground surface
4. PCE - tetrachloroethene
5. TCE - trichloroethene
6. cis-1,2-DCE - cis-1,2-dichloroethene
7. ND - non-detect
8. J - estimated
9. L - biased low

Pre-Design Investigation Soil Boring Locations Plan - Total VOCs in Clay 2

1 inch = 20 feet

0 10 20 40 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 4-2B

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig4-2B_PDI_Soil_Boring_Locations_Plan-Total_VOCs_in_Clay2.mxd 6/7/2019

PDI-20	6/29/2018
Sample ID	PDI-20-WG-85-06292018
Depth (ft bgs)	85
PCE	0.29 J
TCE	**14**
cis-1,2,-DCE	0.61 J

PDI-3	10/24/2017
Sample ID	PDI-3-GW-80-85-20171024
Depth (ft bgs)	80-85
PCE	**5.1**
TCE	**190**
cis-1,2,-DCE	4.2

MW-161-I	6/26/2018
Sample ID	MW-161-I-06262018
Depth (ft bgs)	85
PCE	**15**
TCE	**370**
cis-1,2,-DCE	**13**

PDI-10	6/18/2018
Sample ID	PDI-10-WG-74-06182018
Depth (ft bgs)	74
PCE	ND
TCE	**9.4**
cis-1,2,-DCE	ND

PDI-11	6/18/2018
Sample ID	PDI-11-WG-75-06182018
Depth (ft bgs)	75
PCE	ND
TCE	**13**
cis-1,2,-DCE	ND

PDI-17	6/27/2018
Sample ID	PDI-17-WG-75-06272018
Depth (ft bgs)	75
PCE	0.25 J
TCE	3.8
cis-1,2,-DCE	ND

PDI-12	6/20/2018
Sample ID	PDI-12-WG-75-06202018
Depth (ft bgs)	75
PCE	0.43 J
TCE	ND
cis-1,2,-DCE	ND

PDI-1	11/17/2017
Sample ID	PDI-1-GW-75-20171117
Depth (ft bgs)	75
PCE	ND
TCE	2.3
cis-1,2,-DCE	ND

MW-161-3	7/25/2018
Sample ID	MW-161-3-20180725
Depth (ft bgs)	70
PCE	4
TCE	**54 J**
cis-1,2,-DCE	2

PDI-19	6/28/2018
Sample ID	PDI-19-WG-85-06282018
Depth (ft bgs)	85
PCE	1.9
TCE	**460**
cis-1,2,-DCE	**17**

MW-161-4	7/24/2018
Sample ID	MW-161-4-20180724
Depth (ft bgs)	70
PCE	3.5
TCE	**52**
cis-1,2,-DCE	1.5

PDI-2	11/16/2017
Sample ID	PDI-2-GW-72-75-20171116
Depth (ft bgs)	72-75
PCE	0.38 J
TCE	**9.9**
cis-1,2,-DCE	ND

PDI-5	10/26/2017	10/26/2017
Sample ID	PDI-5-GW-72-75-20171026	PDI-5-GW-80-85-20171026
Depth (ft bgs)	72-75	80-85
PCE	1.4	**22**
TCE	**23**	**640**
cis-1,2,-DCE	1.1	**9.1**

PDI-13	6/21/2018
Sample ID	PDI-13-WG-75-06212018
Depth (ft bgs)	75
PCE	0.26 J
TCE	**8.5**
cis-1,2,-DCE	ND

PDI-16	6/26/2018
Sample ID	PDI-16-WG-75-06262018
Depth (ft bgs)	75
PCE	2.7
TCE	**85**
cis-1,2,-DCE	1.9

PDI-15	6/25/2018
Sample ID	PDI-15-WG-75-06252018
Depth (ft bgs)	75
PCE	0.48 J
TCE	**15**
cis-1,2,-DCE	ND

PDI-14	6/22/2018
Sample ID	PDI-14-WG-75-06222018
Depth (ft bgs)	75
PCE	0.31 J
TCE	3.6
cis-1,2,-DCE	ND

NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (ug/L)	
PCE	5
TCE	5
cis-1,2-DCE	5

Legend

Groundwater Sampling Location - Total VOCs (ug/L)

- ND
- 0 - 5
- 5 - 50
- 50 - 150
- 150 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- Drill Rig Location for Inclined Borings
- OU1 Site Boundary

N

Notes:
1. Results with light red fill have exceeded NYSDEC Restricted Commercial Use SCOs.
2. All results in micrograms per liter (ug/L)
3. VOCs - volatile organic compounds
4. ft bgs - feet below ground surface
5. ND - not detected
6. J - estimated value

Pre-Design Investigation
Groundwater Sample Results

1 inch = 50 feet

0 25 50 100 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 4-3

CDM Smith

PDI-20	6/29/2018
Sample ID	PDI-20-WG-85-06292018
Depth (ft bgs)	85
PCE	0.29 J
TCE	**14**
cis-1,2,-DCE	0.61 J

PDI-3	10/24/2017
Sample ID	PDI-3-GW-80-85-20171024
Depth (ft bgs)	80-85
PCE	**5.1**
TCE	**190**
cis-1,2,-DCE	4.2

MW-161-I	6/26/2018
Sample ID	MW-161-I-06262018
Depth (ft bgs)	85
PCE	**15**
TCE	**370**
cis-1,2,-DCE	**13**

PDI-10	6/18/2018
Sample ID	PDI-10-WG-74-06182018
Depth (ft bgs)	74
PCE	ND
TCE	**9.4**
cis-1,2,-DCE	ND

PDI-11	6/18/2018
Sample ID	PDI-11-WG-75-06182018
Depth (ft bgs)	75
PCE	ND
TCE	**13**
cis-1,2,-DCE	ND

PDI-17	6/27/2018
Sample ID	PDI-17-WG-75-06272018
Depth (ft bgs)	75
PCE	0.25 J
TCE	3.8
cis-1,2,-DCE	ND

PDI-12	6/20/2018
Sample ID	PDI-12-WG-75-06202018
Depth (ft bgs)	75
PCE	0.43 J
TCE	ND
cis-1,2,-DCE	ND

PDI-1	11/17/2017
Sample ID	PDI-1-GW-75-20171117
Depth (ft bgs)	75
PCE	ND
TCE	2.3
cis-1,2,-DCE	ND

MW-161-3	7/25/2018
Sample ID	MW-161-3-20180725
Depth (ft bgs)	70
PCE	4
TCE	**54 J**
cis-1,2,-DCE	2

PDI-19	6/28/2018
Sample ID	PDI-19-WG-85-06282018
Depth (ft bgs)	85
PCE	1.9
TCE	**460**
cis-1,2,-DCE	**17**

MW-161-4	7/24/2018
Sample ID	MW-161-4-20180724
Depth (ft bgs)	70
PCE	3.4
TCE	**51**
cis-1,2,-DCE	1.3

PDI-2	11/16/2017
Sample ID	PDI-2-GW-72-75-20171116
Depth (ft bgs)	72-75
PCE	0.38 J
TCE	**9.9**
cis-1,2,-DCE	ND

PDI-5	10/26/2017	10/26/2017
Sample ID	PDI-5-GW-72-75-20171026	PDI-5-GW-80-85-20171026
Depth (ft bgs)	72-75	80-85
PCE	1.4	**22**
TCE	**23**	**640**
cis-1,2,-DCE	1.1	**9.1**

PDI-13	6/21/2018
Sample ID	PDI-13-WG-75-06212018
Depth (ft bgs)	75
PCE	0.26 J
TCE	**8.5**
cis-1,2,-DCE	ND

PDI-16	6/26/2018
Sample ID	PDI-16-WG-75-06262018
Depth (ft bgs)	75
PCE	2.7
TCE	**85**
cis-1,2,-DCE	1.9

PDI-15	6/25/2018
Sample ID	PDI-15-WG-75-06252018
Depth (ft bgs)	75
PCE	0.48 J
TCE	**15**
cis-1,2,-DCE	ND

PDI-14	6/22/2018
Sample ID	PDI-14-WG-75-06222018
Depth (ft bgs)	75
PCE	0.31 J
TCE	3.6
cis-1,2,-DCE	ND

NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (ug/L)	
PCE	5
TCE	5
cis-1,2-DCE	5

Legend

Groundwater Sampling Location - Total VOCs (ug/L)

- ND
- 0 - 5
- 5 - 50
- 50 - 150
- 150 - 400
- 400 - 600
- 600 - 800
- 800 - 1,000
- Drill Rig Location for Inclined Borings
- OU1 Site Boundary

Notes:
1. Results with light red fill have exceeded NYSDEC Restricted Commercial Use SCOs.
2. All results in micrograms per liter (ug/L)
3. VOCs - volatile organic compounds
4. ft bgs - feet below ground surface
5. ND - not detected
6. J - estimated value

Pre-Design Investigation
Groundwater Sample Results

1 inch = 50 feet

0 25 50 100 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 4-3

CDM Smith

N

Pre-Design Investigation Cross Sections Plan

1 inch = 20 feet

0 10 20 40 *Feet*

Former Aluminum Louvre
Old Bethpage, NY
Figure 5-1A

CDM Smith

South
A

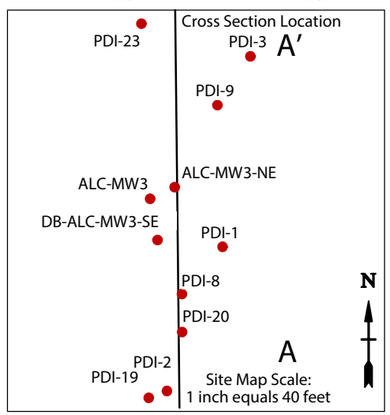
North
A'

PDI-19 Offset = 8
PDI-2 Offset = 3
PDI-20 Offset = 1
PDI-8 Offset = - 1
PDI-1 Offset = - 12
DB-ALC-MW3-SE Offset = 5
ALC-MW3 Offset = 7
ALC-MW3-NE Offset = 1
PDI-9 Offset = - 11
PDI-3 Offset = - 20
PDI-23 Offset = 9

SO [111.8-111.3] ND (June 2018)
SO [114.8-114.3] 39000 (January 2011)
SO [110.8-110.3] 950000 (January 2011)
SO [104.8-104.3] 2.4 (January 2011)
SO [95.8-95.3] 3.9 (January 2011)
SO [90.8-90.3] 1.5 (January 2011)
SO [84.8-84.3] 2.3 (January 2011)
SO [110.8-110.3] 600000 (January 2011)
SO [115.2-114.7] ND (June 2018)
SO [114.2-113.7] 3.2 J (July 2018)
Clay 1
SO [62.3-61.8] 100 (June 2018)
Water Table Estimated HDR January 2012
Water Table Estimated CDM Smith July 2018
Clay 2
WG [57.04-54.04] 9.9 (November 2017)
SO [53.54-53.29] 10 (October 2017)
SO [52.54-52.29] 16 (October 2017)
SO [51.54-51.29] 29 J (October 2017)
WG [57.02-54.02] 2.3 (October 2017)
SO [57-56.5] 9.8 (June 2018)
WG [51.8-49.3] 460 (June 2018)
WG [51.8-49.3] 14 (June 2018)
SO [47.52-47.27] 120 (October 2017)
SO [46.52-46.27] 140 (October 2017)
SO [45.52-45.27] 320 (October 2017)
WG [52.9-47.9] 190 (October 2017)
Clay 3

Elevation (feet above mean sea level)

Distance Along Baseline (feet)



LEGEND:

- Asphalt
- USCS Poorly-graded Sand
- Lignite-like Material
- USCS Clayey Sand
- USCS Silty Sand
- USCS Low Plasticity Clay
- Concrete
- USCS Well-graded Gravel
- Estimated Water Table

Groundwater (WG) and Soil (SO) Sample Results
[Sample Elevation Depth]
Trichloroethene (Date Sampled)

All GW sample results in micrograms per liter
All SO sample results in micrograms per kilogram
All GW elevations in feet above mean sea level

ND - not detected
J - estimated concentration

DB-ALC-MW3-SE, ALC-MW-3, and ALC-MW3-NE were soil boring and monitoring well locations sampled by HDR.
PDI-1, PDI-2, PDI-3, PDI-8, PDI-9, PDI-19, PDI-20, and PDI-23 were soil boring locations sampled by CDM Smith.

Horizontal Scale (feet): 0, 8
Vertical Scale (feet): 0, 16

Vertical Exaggeration: 0.5x

CDM Smith

Figure 5-1B
Longitudinal Soil Profile - Section A-A'
January 2011 through July 2018
Former Aluminum Louvre
301 Winding Road, Bethpage, NY

STANDARD CROSS SECTION: PLUCHACK FIELD FAL2.GPJ STANDARD_ENVIRONMENTAL_PROJECT.GDT 9/19/18 REV.

West
B

East
B'

PDI-17 Offset = 0
PDI-18 Offset = 5
DB-301-2E Offset = 2
MW-301-1 Offset = 0
ALC-MW3 Offset = 0
ALC-MW3-NE Offset = 4
DB-MW3-E Offset = 0
PDI-6 Offset = 6
PDI-1 Offset = - 8

SO [107.8-107.3]
17 (June 2018)

SO [110.8-110.3]
430000 (January 2011)

SO [111.8-111.55]
140000 (January 2011)

SO [110.8-110.3]
950000 (January 2011)

SO [110.8-110.3]
600000 (January 2011)

SO [111.3-110.8]
1600 (January 2011)

SO [114.8-114.3]
1.2 JL (June 2018)

SO [112.8-112.3]
170 J (June 2018)

SO [90.8-90.3]
2.2 (January 2011)

SO [95.8-95.3]
3.9 (January 2011)

SO [84.8-84.3]
2.3 (January 2011)

SO [69.4-68.9]
1.10 (June 2018)

WG [57.7-55.2]
3.8 (June 2018)

WG [72.8-62.8]
1700 (May 2011)
WG [72.8-62.8]
2500 (July 2011)
WG [72.8-62.8]
NS (August 2011)

WG [57.02-54.02]
2.3 (October 2017)

SO [47.52-47.27]
120 (October 2017)
SO [46.52-46.27]
140 (October 2017)
SO [45.52-45.27]
320 (October 2017)

WG [43.8-33.8]
78 (May 2011)
WG [43.8-33.8]
45 (July 2011)
WG [43.8-33.8]
18 (August 2011)

WG [13.8-3.8]
66 (May 2011)
WG [13.8-3.8]
17 (July 2011)
WG [13.8-3.8]
5.1 (August 2011)

Clay 1
Clay 2
Clay 3

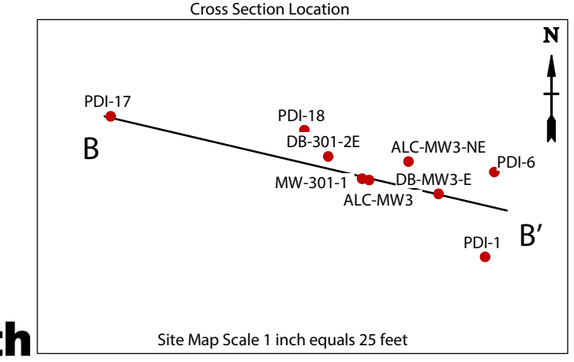
Water Table Estimated
HDR
January 2012

Water Table Estimated
CDM Smith
July 2018

Elevation (feet above mean sea level)

Distance Along Baseline (feet)

Cross Section Location



LEGEND:

- Asphalt
- USCS Poorly-graded Sand
- Lignite-like Material
- USCS Silt
- USCS Silty Sand
- USCS Low Plasticity Clay
- USCS Clayey Sand
- Estimated Water Table

Groundwater (WG) and Soil (SO) Sample Results
[Sample Elevation Depth]
Trichloroethene (Date Sampled)

All GW sample results in micrograms per liter
All SO sample results in micrograms per kilogram
All GW elevations in feet above mean sea level

NS - not sampled
J - estimated concentration
L - biased low

Monitoring well MW-301-1 was installed in April 2011 and sampled by HDR. DB-301-2E, ALC-MW3, ALC-MW3-NE, and DB-MW3-E were soil boring and monitoring well locations sampled by HDR. PDI-1, PDI-6, PDI-17, and PDI-18 were soil boring locations sampled by CDM Smith.

Horizontal Scale (feet) 0 5

Vertical Scale (feet) 0 22

Vertical Exaggeration: 0x

Figure 5-1C
Latitudinal Soil Profile - Section B-B'
January 2011 through July 2018
Former Aluminum Louvre
301 Winding Road, Bethpage, NY

CDM Smith

STANDARD CROSS SECTION: PUCHACK FIELD FAL2.GPJ STANDARD_ENVIRONMENTAL_PROJECT.GDT 9/19/18 REV.

South
C

North
C'

PDI-16 Offset = - 3
PDI-15 Offset = 4
PDI-14 Offset = 0
PDI-13 Offset = 2
PDI-12 Offset = - 4
PDI-11 Offset = 1
PDI-10 Offset = - 2

Clay 1
Clay 2

SO [77.2-76.7]
1.1 (June 2018)

SO [80.2-79.7]
0.38 J (June 2018)

SO [77.2-76.7]
8.5 JL (June 2018)

SO [79.2-78.7]
27 (June 2018)

SO [75.2-74.7]
17 JL (June 2018)

WG [59.7-57.2]
85 (June 2018)

WG [59.7-57.2]
15 (June 2018)

WG [59.7-57.2]
3.6 (June 2018)

WG [59.7-57.2]
8.5 (June 2018)

WG [59.7-57.2]
ND (June 2018)

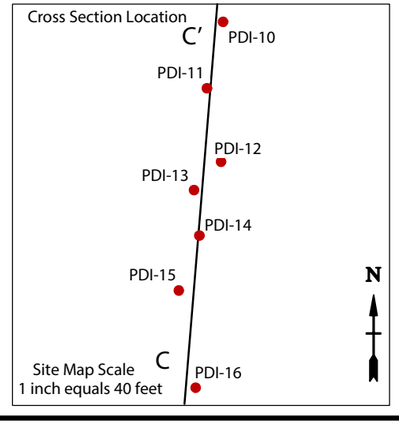
WG [59.7-57.2]
13 (June 2018)

WG [60.7-58.2]
9.4 (June 2018)

Elevation (feet above mean sea level)

Distance Along Baseline (feet)

Cross Section Location



Site Map Scale
1 inch equals 40 feet

LEGEND:

- Concrete
- USCS Clayey Sand
- USCS Low Plasticity Clay
- Lignite-Like Material
- USCS Silty Sand
- USCS Poorly-graded Sand
- USCS Well-graded Sand

Groundwater (WG) and Soil (SO) Sample Results
[Sample Elevation Depth]
Trichloroethene (Date Sampled)

All GW sample results in micrograms per liter
All SO sample results in micrograms per kilogram

ND - not detected
J - estimated concentration
L - biased low

PDI-10 through PDI-16 were soil boring locations sampled by CDM Smith and were not advanced to anticipated depth of Clay 3.

Horizontal Scale (feet) 0 8

Vertical Scale (feet) 0 14

Vertical Exaggeration: 0.5x

Figure 5-1D
Soil Profile Transect - Section C-C'
January 2011 through July 2018
Former Aluminum Louvre
301 Winding Road, Bethpage, NY

CDM Smith

STANDARD CROSS SECTION: PUCHACK FIELD FAL2.GPJ STANDARD_ENVIRONMENTAL_PROJECT.GDT 9/14/18 REV.

Location	Depth (ft bgs)	Total VOCs Concentration (µg/kg)
PDI-6	16	206.77
PDI-7	17	64480
PDI-8	17	8.1
PDI-9	17	1.7
PDI-18	21	78.98
PDI-23	18	21.2
PDI-24	18	37.91
PDI-25	14	15.5
PDI-26	17.5	40.44
PDI-27	17	4.9
PDI-28	16	11.6
PDI-29	17.5	13.7
PDI-30	17.5	51.39
PDI-31	17.5	36.31
PDI-32	16	7.8
PDI-33	13	18.7
PDI-34	15	52.16
PDI-35	14	16.55
PDI-36	13.5	11.55
161-DB-1	22	1044.3
161-DB-2	21	5.6
161-DB-3	21	3.6
301-DB-1	16	231
301-DB-2	17	1016000
301-DB-3	16	36040
301-DB-4	17	19
301-DB-5	16	1.2
301-DB-6	18	10
301-DB-7	16	9
301-DB-8	17	2.5
DB-301-2E	17	432630
DB-MW-3E	16.5	1890
DB-ALC-MW-3S	16	10710
DB-ALC-MW-3SE	13	50220
ALC-MW3	17	963000
ALC-MW-3W	16	384000
ALC-MW-3NE	17	600000
ALC-MW-3E	16	144500
ALC-MW-3SE	15	29100

N

Notes:
1. All results in micrograms per kilogram (ug/kg)
2. VOCs - volatile organic compounds
3. ft bgs - feet below ground surface

All Soil Boring Locations - Total VOCs in Clay 1

1 inch = 13 feet

0 6.5 13 26 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 5-2

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\02 Project Information\GIS\02_MXD\PDI Figures\Fig5-2_All_Soil_Boring_Locations-Total_VOCs_in_Clay1.mxd 6/7/2019

Contaminant	NYSDEC Unrestricted Use Soil Cleanup Objectives (µg/kg)
Tetrachloroethene (PCE)	1300
Trichloroethene (TCE)	470
1,1,1-Trichloroethane (1,1,1-TCA)	680
cis-1,2-Dichloroethene (DCE)	250
Toluene	700
Xylenes (mixed)	260

Legend

- Dry Wells
- Piping Between Dry Wells
- Existing Water Line
- PDI Proposed TTZ
- ROD Proposed TTZ

HDR Soil Boring Location - Total VOCs (ug/kg)

- Non-Detect
- 0 - 10
- 10 - 25
- 25 - 250
- 250 - 500
- 500 - 1000
- 1000 - 10000
- 10000 - 70000
- 70000 - 1000000
- 1000000 - 1016000

CDM Smith Soil Boring Location - Total VOCs (ug/kg)

- Non-Detect
- 0 - 10
- 10 - 25
- 25 - 250
- 250 - 500
- 500 - 1000
- 1000 - 10000
- 10000 - 70000

N

Notes:
1. All results in micrograms per kilogram (ug/kg)
2. VOCs - volatile organic compounds
3. ft bgs - feet below ground surface
4. TTZ - target treatment zone

Proposed Target Treatment Zone

1 inch = 10 feet

0 5 10 20 Feet

Former Aluminum Louvre
Old Bethpage, NY
Figure 6-1

CDM Smith

Tables

Table 2-1
Former Aluminum Louvre Site
Site No. 130195
PDI Sample Summary

Sample Identification	Sample Date	Sample Location	Sample Type	Phase	Quality Assurance/Quality Control	Analyses
Soil Sampling						
PDI-5-SO-67.5-20171025	10/25/2017 15:50	PDI-5	Subsurface Soil	I		VOCs
PDI-5-SO-68-20171025	10/25/2017 15:55	PDI-5	Subsurface Soil	I		VOCs
PDI-5-SO-73-20171025	10/25/2017 16:10	PDI-5	Subsurface Soil	I		VOCs
PDI-5-SO-81-20171026	10/26/2017 10:45	PDI-5	Subsurface Soil	I		VOCs
PDI-2-SO-75.5-20171116	11/16/2017 14:00	PDI-2	Subsurface Soil	I		VOCs
FD-01-SO-20171116	11/16/2017 14:05	PDI-2	Subsurface Soil	I	Field duplicate of PDI-2-SO-75.5-20171116	VOCs
PDI-2-SO-76.5-20171116	11/16/2017 14:15	PDI-2	Subsurface Soil	I		VOCs
PDI-2-SO-77.5-20171116	11/16/2017 14:30	PDI-2	Subsurface Soil	I	MS/MSD	VOCs
PDI-1-SO-8-20171117	11/17/2017 9:15	PDI-1	Subsurface Soil	I		VOCs, TOC
PDI-1-SO-DUP-20171117	11/17/2017 9:35	PDI-1	Subsurface Soil	I	Field duplicate of PDI-1-SO-8-20171117	VOCs, TOC
PDI-1-SO-12-20171117	11/17/2017 9:30	PDI-1	Subsurface Soil	I		VOCs, TOC
PDI-1-SO-16-20171117	11/17/2017 9:40	PDI-1	Subsurface Soil	I		VOCs, TOC
PDI-1-SO-20-20171117	11/17/2017 11:00	PDI-1	Subsurface Soil	I	MS/MSD	VOCs, TOC
PDI-1-SO-24-20171117	11/17/2017 11:05	PDI-1	Subsurface Soil	I		VOCs, TOC
PDI-1-SO-81.5-20171117	11/17/2017 13:45	PDI-1	Subsurface Soil	I		VOCs
PDI-1-SO-82.5-20171117	11/17/2017 13:50	PDI-1	Subsurface Soil	I		VOCs
PDI-1-SO-83.5-20171117	11/17/2017 13:55	PDI-1	Subsurface Soil	I		VOCs
PDI-6-SO-14-06132018	6/13/2018 9:00	PDI-6	Subsurface Soil	II		VOCs
PDI-6-SO-16-06132018	6/13/2018 9:05	PDI-6	Subsurface Soil	II		VOCs
PDI-106-SO-16-06132018	6/13/2018 9:10	PDI-6	Subsurface Soil	II	Field duplicate of PDI-6-SO-16-06132018	VOCs
PDI-7-SO-17-06132018	6/13/2018 9:40	PDI-7	Subsurface Soil	II	MS/MSD	VOCs
PDI-8-SO-17-061318	6/13/2018 10:30	PDI-8	Subsurface Soil	II		VOCs
PDI-9-SO-17-061318	6/13/2018 11:40	PDI-9	Subsurface Soil	II		VOCs
PDI-10-SO-57-06182018	6/18/2018 14:50	PDI-10	Subsurface Soil	II		VOCs
PDI-13-SO-53-06212018	6/21/2028 12:20	PDI-13	Subsurface Soil	II		VOCs
PDI-113-SO-53-06212018	6/21/2018 12:30	PDI-13	Subsurface Soil	II	Field duplicate of PDI-13-SO-53-06212018	VOCs
PDI-14-SO-55-06222018	6/22/2018 10:55	PDI-14	Subsurface Soil	II	MS/MSD	VOCs
PDI-15-SO-52-06252018	6/25/2018 10:20	PDI-15	Subsurface Soil	II		VOCs
PDI-16-SO-55-06262018	6/26/2018 10:05	PDI-16	Subsurface Soil	II		VOCs
PDI-17-SO-60-06272018	6/27/2018 12:15	PDI-17	Subsurface Soil	II		VOCs, Fe
PDI-17-SO-62-06272018	6/27/2018 12:15	PDI-17	Subsurface Soil	II		Fe
PDI-18-SO-21-06282018	6/28/2018 9:35	PDI-18	Subsurface Soil	II		VOCs
PDI-19-SO-79-06282018	6/28/2018 14:30	PDI-19	Subsurface Soil	II		VOCs, Fe
PDI-19-SO-80-06282018	6/28/2018 14:35	PDI-19	Subsurface Soil	II		Fe
PDI-20-SO-73-06292018	6/29/2018 11:50	PDI-20	Subsurface Soil	II		VOCs, Fe
PDI-20-SO-74-06292018	6/29/2018 11:55	PDI-20	Subsurface Soil	II		Fe
PDI-23-SO-18-20180725	7/25/2018 8:30	PDI-23	Subsurface Soil	II		VOCs
PDI-123-SO-18-20180725	7/25/2018 8:40	PDI-23	Subsurface Soil	II	Field duplicate of PDI-23-SO-18-20180725	VOCs
PDI-24-SO-18-20180725	7/25/2018 8:50	PDI-24	Subsurface Soil	II		VOCs
PDI-25-SO-14-20180725	7/25/2018 9:30	PDI-25	Subsurface Soil	II	MS/MSD	VOCs
PDI-26-SO-17.5-031219	3/12/2019 8:30	PDI-26	Subsurface Soil	III		VOCs
PDI-27-SO-17-031219	3/12/2019 9:45	PDI-27	Subsurface Soil	III		VOCs
PDI-28-SO-16-031219	3/12/2019 12:15	PDI-28	Subsurface Soil	III		VOCs
PDI-29-SO-17.5-031219	3/12/2019 9:15	PDI-29	Subsurface Soil	III		VOCs
PDI-30-SO-17.5-031219	3/12/2019 10:30	PDI-30	Subsurface Soil	III		VOCs
PDI-31-SO-17.5-031219	3/12/2019 11:00	PDI-31	Subsurface Soil	III		VOCs
PDI-32-SO-16-031219	3/12/2019 11:30	PDI-32	Subsurface Soil	III		VOCs
PDI-33-SO-13-031319	3/13/2019 8:00	PDI-33	Subsurface Soil	III		VOCs
PDI-133-SO-13-031319	3/13/2019 8:15	PDI-33	Subsurface Soil	III	Field duplicate of PDI-33-SO-13-031319	VOCs
PDI-34-SO-15-031319	3/13/2019 9:00	PDI-34	Subsurface Soil	III		VOCs
PDI-35-SO-14-031319	3/13/2019 9:45	PDI-35	Subsurface Soil	III		VOCs
PDI-36-SO-13.5-031319	3/13/2019 10:15	PDI-36	Subsurface Soil	III		VOCs
Groundwater Sampling						
PDI-3-GW-80-85-20171024	10/24/2017 17:50	PDI-3	Groundwater Grab	I		VOCs
PDI-5-GW-72-75-20171026	10/26/2017 9:25	PDI-5	Groundwater Grab	I		VOCs, 1,4-dioxane
PDI-5-GW-80-85-20171026	10/26/2017 11:55	PDI-5	Groundwater Grab	I		VOCs, 1,4-dioxane
GW-FD-01-20171026	10/26/2017 12:00	PDI-5	Groundwater Grab	I	Field duplicate of PDI-5-GW-80-85-20171026	VOCs, 1,4-dioxane
PDI-2-GW-72-75-20171116	11/16/2017 14:20	PDI-2	Groundwater Grab	I		VOCs
PDI-1-GW-75-20171117	11/17/2017 13:30	PDI-1	Groundwater Grab	I	MS/MSD	VOCs, 1,4-dioxane
PDI-10-WG-74-06182018	6/18/2018 15:30	PDI-10	Groundwater Grab	II		VOCs
PDI-11-WG-75-06182018	6/19/2018 12:55	PDI-11	Groundwater Grab	II		VOCs
PDI-111-WG-75-06182018	6/19/2018 13:00	PDI-11	Groundwater Grab	II	Field duplicate of PDI-11-WG-75-06182018	VOCs
PDI-12-WG-75-06202018	6/20/2018 14:30	PDI-12	Groundwater Grab	II	MS/MSD	VOCs
PDI-13-WG-75-06212018	6/21/2018 13:15	PDI-13	Groundwater Grab	II		VOCs
PDI-14-WG-75-06222018	6/22/2018 11:15	PDI-14	Groundwater Grab	II		VOCs
PDI-15-WG-75-06252018	6/25/2018 11:25	PDI-15	Groundwater Grab	II		VOCs
PDI-16-WG-75-06262018	6/26/2018 10:30	PDI-16	Groundwater Grab	II		VOCs
PDI-MW-161-1-I-06262018	6/26/2018 11:10	MW-161-1-I	Low-Flow	II		VOCs, PFAS, 1,4-dioxane
PDI-17-WG-75-06272018	6/27/2018 13:20	PDI-17	Groundwater Grab	II		VOCs
PDI-19-WG-85-06282018	6/28/2018 14:45	PDI-19	Groundwater Grab	II		VOCs
PDI-20-WG-85-06292018	6/29/2018 12:00	PDI-20	Groundwater Grab	II		VOCs
MW-161-4-20180724	7/24/2018 10:10	MW-161-4	Low-Flow	II		VOCs, PFAS, 1,4-dioxane
MW-1161-4-20180724	7/24/2018 10:15	MW-161-4	Low-Flow	II	Field duplicate of MW-161-4-20180724	VOCs, PFAS, 1,4-dioxane
MW-161-3-20180725	7/25/2018 12:25	MW-161-3	Low-Flow	II	MS/MSD	VOCs, PFAS, 1,4-dioxane
Soil Vapor Intrusion Sampling						
SVI-161-1-IA-20171114	11/14/2017 11:51	SVI-161-1-IA	Indoor Air	I		VOCs
SVI-161-1-SS-20171114	11/14/2017 12:50	SVI-161-1-SS	Sub-slab Vapor	I		VOCs
SVI-161-DUP-SS-2-20171114	11/14/2017 12:00	SVI-161-1-SS	Sub-slab Vapor	I	Field duplicate of SVI-161-1-SS-20171114	VOCs
SVI-161-3-IA-20171114	11/14/2017 12:37	SVI-161-3-IA	Indoor Air	I		VOCs
SVI-161-3-SS-20171114	11/14/2017 15:45	SVI-161-3-SS	Sub-slab Vapor	I		VOCs
SVI-161-4-IA-20171114	11/14/2017 12:36	SVI-161-4-IA	Indoor Air	I		VOCs
SVI-161-4-SS-20171114	11/14/2017 15:46	SVI-161-4-SS	Sub-slab Vapor	I		VOCs
SVI-301-1-IA-20171114	11/14/2017 12:17	SVI-301-1-IA	Indoor Air	I		VOCs
SVI-301-1-SS-20171114	11/14/2017 11:45	SVI-301-1-SS	Sub-slab Vapor	I		VOCs
SVI-301-2-IA-20171114	11/14/2017 11:48	SVI-301-2-IA	Indoor Air	I		VOCs
SVI-301-2-SS-20171114	11/14/2017 11:47	SVI-301-2-SS	Sub-slab Vapor	I		VOCs
SVI-301-3-IA-20171114	11/14/2017 11:49	SVI-301-3-IA	Indoor Air	I		VOCs
SVI-301-3-SS-20171114	11/14/2017 12:30	SVI-301-3-SS	Sub-slab Vapor	I		VOCs
SVI-301-4-OA-20171114	11/14/2017 12:15	SVI-301-4-OA	Outdoor Air	I		VOCs
SVI-161-1-OA-20171115	11/15/2017 14:05	SVI-161-1-OA	Outdoor Air	I		VOCs
SVI-161-2-IA-20171115	11/15/2017 14:00	SVI-161-2-IA	Indoor Air	I		VOCs
SVI-161-2-SS-20171115	11/15/2017 14:45	SVI-161-2-SS	Sub-slab Vapor	I		VOCs
QA/QC						
TRIPBLANK_20171026	10/26/2017 0:00	NA	Blank	I	Trip Blank	VOCs
TRIPBLANK_20171116	11/16/2017 0:00	NA	Blank	I	Trip Blank	VOCs
TRIPBLANK_20171117	11/17/2017 0:00	NA	Blank	I	Trip Blank	VOCs
FB-06192018	6/19/2018 10:10	NA	Blank	II	Field Blank	VOCs
PDI-TB-06192018	6/19/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06202018	6/20/2018 14:00	NA	Blank	II	Field Blank	VOCs
PDI-TB-06202018	6/20/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06212018	6/21/2018 12:35	NA	Blank	II	Field Blank	VOCs
PDI-FB-06222018	6/22/2018 9:00	NA	Blank	II	Field Blank	VOCs
PDI-TB-06222018	6/22/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06252018	6/25/2018 8:30	NA	Blank	II	Field Blank	VOCs
PDI-TB-06252018	6/25/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06262018	6/26/2018 8:30	NA	Blank	II	Field Blank	VOCs, PFAS, 1,4-dioxane
PDI-TB-06262018	6/26/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06272018	6/27/2018 9:20	NA	Blank	II	Field Blank	VOCs
PDI-TB-06272018	6/27/2018 0:00	NA	Blank	II	Trip Blank	VOCs
PDI-FB-06292018	6/29/2018 9:15	NA	Blank	II	Field Blank	VOCs
PDI-FB-20180724	7/24/2018 11:45	NA	Blank	II	Field Blank	VOCs, PFAS, 1,4-dioxane
PDI-FB-20180725	7/25/2018 9:00	NA	Blank	II	Field Blank	VOCs

Key:
Fe - ferrous iron
MS/MSD - matrix spike/matrix spike duplicate
NA - not applicable
PFAS - per and polyfluoroalkyl substances
TOC - total organic carbon
VOC - volatile organic compound

CDM Smith

Table 3-1
Former Aluminum Louvre Site
Site No. 130195
Synoptic Groundwater Data

Location	Well ID	Top of Casing Elevation (ft)	Total Well Depth (ft)	Depth to Water (ft bgs)						
				May-11 [1]	Jun-12 [1]	Aug-12 [1]	Jan-18	Jun-18	Jul-18	Mar-19
ALC-MW3 [2]	ALC-MW3	128.7	60	59.81	60.01	60.26	NG	Abandoned		
ALC-MW4 [2]	ALC-MW4	129.04	60	60.03	60.23	60.83	NG	NG	NA	NA
ALC-OLD-MW1 [2]	ALC-OLD-MW1	129.02	60	60.24	60.11	NA	NG	NG	NG	62.44
ALC-OLD-MW2 [2]	ALC-OLD-MW2	128.16	59	58.79	59.25	59.81	NG	Abandoned		
ALC-OLD-MW3 [2]	ALC-OLD-MW3	128.56	60	59.95	60.06	60.6	NG	NG	NG	62.09
MW-161-1-ID	MW-161-1-D	136.13	125	68.09	NA	68.2	75.01	73.3	74.25	69.97
MW-161-1-ID	MW-161-1-I	136.13	95	67.73	NA	67.86	74.06	Abandoned		
MW-161-1-S	MW-161-1-S	136.03	70	66.36	66.19	66.42	Dry	NG	Dry	68
MW-161-2	MW-161-2-D	132.2	125	64.51	64.35	72.69	71.28	NG	NA	NA
MW-161-2	MW-161-2-I	132.2	95	64.29	64.07	72.52	71.3	NG	NA	NA
MW-161-2	MW-161-2-S	132.2	70	64.21	63.9	72.38	Dry	NG	NA	NA
MW-161-3	MW-161-3	NS	75	DNE	DNE	DNE	DNE	66.3	62.65	NA
MW-161-4	MW-161-4	NS	75	DNE	DNE	DNE	DNE	62.8	63.26	NA
MW-195-1	MW-195-1-D	139.85	120	DNE	72.43	64.73	NG	NG	NG	74.1
MW-195-1	MW-195-1-I	139.85	100	DNE	72.31	64.54	NG	NG	NG	74
MW-195-1	MW-195-1-S	139.85	80	DNE	72.15	64.58	NG	NG	NG	73.9
MW-301-1-VD	MW-301-1-183	128.93	183	DNE	60.95	61.31	68.02	NG	NA	NA
MW-301-1-D	MW-301-1-D	129.07	125	61.34	60.99	61.4	67.99	NG	67.3	62.9
MW-301-1-SI	MW-301-1-I	128.8	95	60.8	60.52	60.85	67.8	NG	66.95	62.7
MW-301-1-SI	MW-301-1-S	128.8	66	59.97	59.69	60.04	Dry	Abandoned		
MW-301-2	MW-301-2-D	128.51	122	60.86	60.64	60.95	NA	Abandoned		
MW-301-2	MW-301-2-I	128.51	95	60.54	60.03	60.55	NA	Abandoned		
MW-301-3	MW-301-3-D	128.17	123	60.59	60.14	60.5	NA	NG	66.65	62.45
MW-301-3	MW-301-3-I	128.17	91	60.32	59.91	60.32	NA	NG	66.45	62.17
MW-301-4	MW-301-4-D	127.41	125	59.51	59.31	59.59	NA	NG	65.59	61.23
MW-301-4	MW-301-4-I	127.41	95	59.36	59	59.48	NA	NG	65.55	61.28
MW-301-4	MW-301-4-S	127.41	65	57.06	55.8	56.97	NA	NG	60.73	59.95
MW-NEMF-1	MW-NEMF-1-D	127.07	125	DNE	60.43	60.86	NG	NG	NG	NG
MW-NEMF-1	MW-NEMF-1-I	127.04	95	DNE	60.4	60.71	NG	NG	NG	NG
MW-NEMF-1	MW-NEMF-1-S	127.04	70	DNE	60.25	60.73	NG	NG	NG	NG
MW-NEMF-2	MW-NEMF-2-D	134.16	125	DNE	67.6	67.9	NG	NG	NG	NG
MW-NEMF-2	MW-NEMF-2-I	134.14	105	DNE	67.6	67.94	NG	NG	NG	NG
MW-NEMF-2	MW-NEMF-2-S	134.23	76	DNE	67.62	68	NG	NG	NG	NG
MW-NEMF-3	MW-NEMF-3-D	132.32	120	DNE	70.3	70.44	NG	NG	NG	NG
MW-NEMF-3	MW-NEMF-3-I	137.28	105	DNE	70.25	70.43	NG	NG	NG	NG
MW-NEMF-3	MW-NEMF-3-S	137.23	80	DNE	70.15	75.34	NG	NG	NG	NG

Key:
bgs - below ground surface
DNE - did not exist
ft - feet
NA - not able to access well at time of gauging
NG - not gauged
NS - not surveyed

Notes:
1. Depth to water values were provided by HDR as part of the remedial investigation report (HDR, 2013).
2. Well depths approximate (HDR, 2013).

Table 4-1
Former Aluminum Louvre Site
Site No. 130195
Soil Vapor Intrusion Analytical Results

	Sample ID	SVI-161-1-IA-20171114		SVI-161-1-SS-20171114		SVI-161-DUP-SS-2-20171114		SVI-161-1-OA-20171115		SVI-161-2-IA-20171115		SVI-161-2-SS-20171115	
	Location ID	SVI-161-1 -IA		SVI-161-1-SS		SVI-161-DUP-SS		SVI-161-1-OA		SVI-161-2-IA		SVI-161-2-SS	
	Sample Date	11/14/2017		11/14/2017		11/14/2017		11/15/2017		11/15/2017		11/15/2017	
Parameter ID	**NYSDOH Air Guideline Values ($\mu g/m^3$)**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**
1,1,1-Trichloroethane	NS	ND	U	**22**		**25**		ND	U	ND	U	**7.2**	
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	**0.26**	J	ND	U	ND	U	**0.52**	J	ND	U	ND	U
1,1,2-Trichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	**4.6**	J
1,3,5-Trimethylbenzene (mesitylene)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	**2.5**	J
2,2,4-Timethylpentane	NS	ND	U	ND	U	ND	U	**0.2**	J	ND	U	ND	U
4-Ethyltoluene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	NS	**37**		ND	U	ND	U	**5.3**	J	**12000**		**310**	
Benzene	NS	**0.16**	J	ND	U	ND	U	**0.47**	J	**19**	J	**1.1**	J
Carbon Tetrachloride	NS	**0.1**	J	ND	U	ND	U	**0.4**	J	ND	U	ND	U
Chloroform	NS	ND	U	**1.5**	J	ND	U	ND	U	ND	U	ND	U
Chloromethane	NS	**0.84**	J	ND	U	ND	U	**1.2**		ND	U	ND	U
Cyclohexane	NS	**0.51**	J	ND	U	ND	U	ND	U	**53**	J	**1.8**	J
Dichlorodifluoromethane	NS	**1.9**	J	**3**	J	**2.8**	J	**2.4**	J	ND	U	**2.5**	J
Ethylbenzene	NS	ND	U	**80**		**79**		**0.16**	J	ND	U	**29**	
Isopropanol	NS	**7.2**	J	ND	U	**5.2**	J	ND	UJ	ND	UJ	ND	UJ
M,P-Xylenes	NS	ND	U	**66**		**66**		**0.38**	J	ND	U	**160**	
Methyl Ethyl Ketone (2-Butanone)	NS	ND	U	ND	U	ND	U	**0.69**	J	ND	U	**6.6**	J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	U	**4.7**	J	**5.5**	J	ND	U	ND	U	**130**	
Methylene Chloride	60	**0.6**	J	ND	U	ND	U	ND	UJ	ND	UJ	ND	UJ
n-Heptane	NS	ND	U	ND	U	ND	U	ND	U	**190**		**4.7**	J
n-Hexane	NS	**0.3**	J	ND	U	ND	U	**0.3**	J	**52**	J	**1.7**	J
o-Sylene (1,2-Dimethylbenzene)	NS	ND	U	**170**		**180**		ND	U	ND	U	**110**	
Styrene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	30	ND	U	**360**		**330**		**0.19**	J	ND	U	**420**	
Toluene	NS	ND	U	**2.5**	J	**1.9**	J	**1.3**		**2300**		**46**	
Trichloroethylene (TCE)	2	**1.2**		**1200**		**1300**		ND	U	ND	U	**91**	
Trichlorofluoromethane	NS	**1.5**		**53**		**49**		**1.2**		ND	U	**15**	
Xylenes, Total	NS	ND	U	**230**		**240**		**0.38**	J	ND	U	**270**	

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
U - analyte not detected at or above the method detection limit
ND - not detected
NS - no standard exists
ID - identification
NYSDOH - New York State Department of Health
$\mu g/m^3$ - microgram per cubic meter

Notes:
1. All concentrations are presented in $\mu g/m^3$.
2. Results shaded in light blue fill have exceeded NYSDOH Air Guideline Values.

CDM Smith

Table 4-1
Former Aluminum Louvre Site
Site No. 130195
Soil Vapor Intrusion Analytical Results

	Sample ID	SVI-161-3-IA-20171114		SVI-161-3-SS-20171114		SVI-161-4-IA-20171114		SVI-161-4-SS-20171114		SVI-301-1-IA-20171114		SVI-301-1-SS-20171114	
	Location ID	SVI-161-3-IA		SVI-161-3 SS		SVI-161-4-IA		SVI-161-4-SS		SVI-301-1-IA		SVI-301-1-SS	
	Sample Date	11/14/2017		11/14/2017		11/14/2017		11/14/2017		11/14/2017		11/14/2017	
Parameter ID	**NYSDOH Air Guideline Values ($\mu g/m^3$)**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**
1,1,1-Trichloroethane	NS	ND	U	**5.4**		ND	U	**0.37**	J	ND	U	**15**	J
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	**0.49**	J	**0.87**	J	**0.49**	J	**0.46**	J	ND	U	ND	U
1,1,2-Trichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	**12**	J
1,1-Dichloroethene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NS	**5.6**		**3.9**		**7.7**		**2.1**		**27**		ND	U
1,3,5-Trimethylbenzene (mesitylene)	NS	**1.8**		**1.4**		**2.1**		**0.72**	J	**8.2**		ND	U
2,2,4-Timethylpentane	NS	**19**		**4.2**		**20**		**5.9**		**45**		ND	U
4-Ethyltoluene	NS	**1.9**		**1.1**		**2.1**		**0.65**	J	**7.6**		ND	U
Acetone	NS	**19**		**45**		**15**		**14**		**32**	J	ND	U
Benzene	NS	**5.7**		**3**		**5.7**		**2.1**		**12**		**2.3**	J
Carbon Tetrachloride	NS	**0.39**	J	**0.11**	J	**0.42**	J	**0.28**	J	ND	U	ND	U
Chloroform	NS	ND	U	**0.14**	J	ND	U	ND	U	ND	U	**43**	
Chloromethane	NS	**0.98**	J	**0.99**	J	**0.89**	J	**0.32**	J	ND	U	ND	U
Cyclohexane	NS	**3.9**		**1.1**		**3.8**		**1.2**		**18**		ND	U
Dichlorodifluoromethane	NS	**1.9**	J	**1.8**	J	**1.9**	J	**1.7**	J	**5.5**	J	ND	U
Ethylbenzene	NS	**5.1**		**2**		**5.2**		**1.7**		**17**		ND	U
Isopropanol	NS	**8.6**	J	**3.1**	J	**8.3**	J	**2.8**	J	**13**	J	ND	U
M,P-Xylenes	NS	**17**		**6.4**		**17**		**5.1**		**63**		ND	U
Methyl Ethyl Ketone (2-Butanone)	NS	**3.6**		**9.3**		**2.4**		**2.3**		**3.4**	J	ND	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	**2.9**		**1.4**	J	**2.8**		**0.95**	J	**66**		ND	U
Methylene Chloride	60	**0.44**	J	**1.4**	J	**0.4**	J	ND	U	ND	U	ND	U
n-Heptane	NS	**6.3**		**2**		**6.1**		**2.1**		**29**		ND	U
n-Hexane	NS	**11**		**2.8**		**11**		**2.6**		**41**		ND	U
o-Sylene (1,2-Dimethylbenzene)	NS	**6.4**		**3.3**		**6.7**		**2.1**		**22**		ND	U
Styrene	NS	**0.36**	J	**0.39**	J	**0.51**	J	ND	U	**4.4**		ND	U
Tetrachloroethylene (PCE)	30	**3.1**		**230**		**1.9**		**8.8**		**770**		**420**	
Toluene	NS	**28**		**10**		**27**		**8.1**		**63**		ND	U
Trichloroethylene (TCE)	2	**3.4**		**16**		**3.1**		**5.5**		**4.1**	J	**3000**	
Trichlorofluoromethane	NS	**1.1**		**10**		**1.2**		**1.3**		**16**		**160**	
Xylenes, Total	NS	**23**		**9.8**		**24**		**7.3**		**87**		ND	U

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
U - analyte not detected at or above the method detection limit
ND - not detected
NS - no standard exists
ID - identification
NYSDOH - New York State Department of Health
$\mu g/m^3$ - microgram per cubic meter

Notes:
1. All concentrations are presented in $\mu g/m^3$.
2. Results shaded in light blue fill have exceeded NYSDOH Air Guideline Values.

CDM Smith

Table 4-1
Former Aluminum Louvre Site
Site No. 130195
Soil Vapor Intrusion Analytical Results

	Sample ID	SVI-301-2-IA-20171114		SVI-301-2-SS-20171114		SVI-301-3-IA-20171114		SVI-301-3-SS-20171114		SVI-301-4-OA-20171114	
	Location ID	SVI-301-2-IA		SVI-301-2-SS		SVI-301-3-IA		SVI-301-3-SS		SVI-301-4-OA	
	Sample Date	11/14/2017		11/14/2017		11/14/2017		11/14/2017		11/14/2017	
Parameter ID	**NYSDOH Air Guideline Values ($\mu g/m^3$)**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**	**Concentration ($\mu g/m^3$)**	**Qualifier Flag**
1,1,1-Trichloroethane	NS	ND	U	**15**	J	ND	U	**32**		ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	U	ND	U	**0.44**	J	ND	U	**0.46**	J
1,1,2-Trichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	NS	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trimethylbenzene	NS	**45**		ND	U	**4.3**		ND	U	**0.3**	J
1,3,5-Trimethylbenzene (mesitylene)	NS	**13**		ND	U	**1.3**		ND	U	ND	U
2,2,4-Timethylpentane	NS	**61**		ND	U	**9.6**		ND	U	**0.57**	J
4-Ethyltoluene	NS	**12**		ND	U	**1.3**		ND	U	ND	U
Acetone	NS	**30**	J	ND	U	**6.9**	J	ND	U	**9.9**	J
Benzene	NS	**15**		**4**	J	**2.7**		**1.9**	J	**0.56**	J
Carbon Tetrachloride	NS	ND	U	ND	U	**0.43**	J	ND	U	**0.37**	J
Chloroform	NS	ND	U	**13**	J	**0.13**	J	**5.1**	J	ND	U
Chloromethane	NS	ND	U	ND	U	**0.95**	J	ND	U	**0.87**	J
Cyclohexane	NS	**24**		ND	U	**3.6**		ND	U	**0.19**	J
Dichlorodifluoromethane	NS	**8.6**	J	**5**	J	**3.4**		**5.7**	J	**2.1**	J
Ethylbenzene	NS	**22**		**170**		**3.4**		**20**		**0.3**	J
Isopropanol	NS	**8.4**	J	ND	U	**5.7**	J	ND	U	**7.3**	J
M,P-Xylenes	NS	**85**		**1500**		**14**		**230**		**1**	J
Methyl Ethyl Ketone (2-Butanone)	NS	**2.9**	J	**7.1**	J	**0.96**	J	ND	U	**1**	J
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	**96**		ND	U	**11**		ND	U	**0.56**	J
Methylene Chloride	60	ND	U	ND	U	**0.33**	J	ND	U	**0.32**	J
n-Heptane	NS	**39**		ND	U	**6.1**		ND	U	**0.4**	J
n-Hexane	NS	**56**		ND	U	**8.7**		ND	U	**0.62**	J
o-Sylene (1,2-Dimethylbenzene)	NS	**29**		**810**		**5.2**		**160**		**0.36**	J
Styrene	NS	**6.2**		ND	U	**0.85**		ND	U	ND	U
Tetrachloroethylene (PCE)	30	**720**		**1000**		**130**		**590**		**4.5**	
Toluene	NS	**81**		**1000**		**12**		**43**		**1.2**	
Trichloroethylene (TCE)	2	**4.2**		**2000**		**6.5**		**2500**		**6.5**	
Trichlorofluoromethane	NS	**36**		**350**		**9.7**		**470**		**1.4**	
Xylenes, Total	NS	**120**		**2300**		**20**		**390**		**1.4**	J

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
U - analyte not detected at or above the method detection limit
ND - not detected
NS - no standard exists
ID - identification
NYSDOH - New York State Department of Health
$\mu g/m^3$ - microgram per cubic meter

Notes:
1. All concentrations are presented in $\mu g/m^3$.
2. Results shaded in light blue fill have exceeded NYSDOH Air Guideline Values.

CDM Smith

Table 4-2
Former Aluminum Louvre Site
Site No. 130195
Recommendations Based on NYSDOH Decision Matrices[4]

Location	Sample Date	Location	Compound	Sub-Slab Air Concentrations (µg/m^3)	Indoor Air Concentrations (µg/m^3)	Action Recommended[2]	Final Action Recommended[3]
SVI-161-1	11/14/2017	161 Bethpage-Sweethollow Road	Carbon tetrachloride	< 13	**0.1**	No Further Action	Based on TCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 7.9	< 0.79	No Further Action	
			TCE	**1200**	**1.2**	Mitigation	
			Methylene Chloride	< 17	**0.6**	No Further Action	
			PCE	**360**	< 1.4	No Further Action	
			1,1,1-TCA	**22**	< 1.1	No Further Action	
SVI-161-2	11/15/2017	161 Bethpage-Sweethollow Road	Carbon tetrachloride	< 7.6	< 250	No Further Action	Based on TCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 4.8	< 160	No Further Action	
			TCE	**91**	< 210	Mitigation	
			Methylene Chloride	< 11	< 340	No Further Action	
			PCE	**420**	< 270	No Further Action	
			1,1,1-TCA	**7.2**	< 220	No Further Action	
SVI-161-3	11/14/2017	161 Bethpage-Sweethollow Road	Carbon tetrachloride	**0.11**	**0.39**	No Further Action	Based on TCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 0.79	< 0.79	No Further Action	
			TCE	**16**	**3.4**	Mitigation	
			Methylene Chloride	**1.4**	**0.44**	No Further Action	
			PCE	**230**	**3.1**	Monitor	
			1,1,1-TCA	**5.4**	< 1.1	No Further Action	
SVI-161-4	11/14/2017	161 Bethpage-Sweethollow Road	Carbon tetrachloride	**0.28**	**0.42**	No Further Action	Based on TCE results, identification of sources, resampling and/or mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 0.79	< 0.79	No Further Action	
			TCE	**5.5**	**3.1**	Reasonable Action	
			Methylene Chloride	< 1.7	**0.4**	No Further Action	
			PCE	**8.8**	**1.9**	No Further Action	
			1,1,1-TCA	**0.37**	< 1.1	No Further Action	
SVI-301-1	11/14/2017	301 Winding Road	Carbon tetrachloride	< 25	< 6.3	No Further Action	Based on TCE and PCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 16	< 4.0	No Further Action	
			TCE	**3000**	**4.1**	Mitigation	
			Methylene Chloride	< 35	< 8.7	No Further Action	
			PCE	**420**	**770**	Mitigation	
			1,1,1-TCA	**15**	< 5.5	No Further Action	
SVI-301-2	11/14/2017	301 Winding Road	Carbon tetrachloride	< 21	< 4.4	No Further Action	Based on TCE and PCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 13	< 2.8	No Further Action	
			TCE	**2000**	**4.2**	Mitigation	
			Methylene Chloride	< 30	< 6.1	No Further Action	
			PCE	**1000**	**720**	Mitigation	
			1,1,1-TCA	**15**	< 3.8	No Further Action	
SVI-301-3	11/14/2017	301 Winding Road	Carbon tetrachloride	< 21	**0.43**	No Further Action	Based on TCE and PCE results mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion.
			1,1-DCE	< 13	< 0.79	No Further Action	
			TCE	**2500**	**6.5**	Mitigation	
			Methylene Chloride	< 29	**0.33**	No Further Action	
			PCE	**590**	**130**	Mitigation	
			1,1,1-TCA	**32**	< 1.1	No Further Action	

Key:
µg/m^3 - microgram per cubic meter
PCE - tetrachloroethene
TCE - trichloroethene
1,1,1-TCA - 1,1,1-trichloroethane
1,1-DCE - 1,1-dichloroethene
< reporting detection limit - analyte was not detected above the reporting detection limit

Notes:
1. All concentrations are presented in µg/m^3.
2. Outdoor ambient air sample OA-5 was used for comparison with SSV-4, SSV-5, SSV-6, and SSV-7 sub-slab and indoor air samples.
3. Action levels based on NYSDOH Matrix A for TCE, cis-1,2-DCE, 1,1-DCE and carbon tetrachloride, Matrix B for PCE, 1,1,1-TCA and methylene chloride, and Matrix C for vinyl chloride.
4. "Guidance for Evaluating Soil Vapor Intrusion in the State of New York", NYSDOH, October 2006. (Revised May 2017)

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID		PDI-1-SO-8-20171117		PDI-1-SO-DUP-20171117		PDI-1-SO-12-20171117		PDI-1-SO-16-20171117		PDI-1-SO-20-20171117		PDI-1-SO-24-20171117		PDI-1-SO-81.5-20171117		PDI-1-SO-82.5-20171117		PDI-1-SO-83.5-20171117	
Sample Location		PDI-1		PDI-1		PDI-1		PDI-1		PDI-1		PDI-1		PDI-1		PDI-1		PDI-1	
Sampling Date		11/17/2017		11/17/2017		11/17/2017		11/17/2017		11/17/2017		11/17/2017		11/17/2017		11/17/2017		11/17/2017	
Sample Depth		8 ft bgs		8 ft bgs		12 ft bgs		16 ft bgs		20 ft bgs		24 ft bgs		81.5 ft bgs		82.5 ft bgs		83.5 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (mg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon																			
TOC	NS	3960000	J	4440000	J	2450000	J	6610000	J	ND	U	1040000		NA		NA		NA	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,1,2-Trichcloroethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,1-Dichloroethane	240000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,1-Dichloroethene [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2-Dichlorobenzene [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2-Dichloroethane	30000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,2-Dichlorpropane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,3-Dichlorobenzene	280000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
1,4-Dichlorobenzene	130000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
2-Hexanone	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Acetone [3]	500000	NA		NA		NA		NA		NA		NA		**3.6**	BJ	**9.1**	B	ND	U
Benzene	44000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Bromodichlromethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Bromoform	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Bromomethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Carbon Disulfide	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Carbon Tetrachloride	22000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Chlorobenzene [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Chloroethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Chloroform	350000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Chloromethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
cis-1,2-Dichloroethylene [3]	500000	NA		NA		NA		NA		NA		NA		**1.8**		**2.3**		**3.9**	
cis-1,3-Dichloropropene	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Cyclohexane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Dibromochloromethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Dichlorodifluromethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Ethylbenzene	390000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Methyl Acetate	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Methyl Ethyl Ketone (2-Butanone) [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Methylcyclohexane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Methylene Chloride [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	**0.37**	J	ND	U
Styrene	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	150000	NA		NA		NA		NA		NA		NA		**1.5**		**1.4**		**4**	
Toluene [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
trans-1,2-Dichloroethene [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Trichloroethylene (TCE)	200000	NA		NA		NA		NA		NA		NA		**12**		**14**		**32**	
Trichlorofluoromethane	NS	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Vinyl Chloride	13000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Xylenes, Total [3]	500000	NA		NA		NA		NA		NA		NA		ND	U	ND	U	ND	U
Metals																			
Ferrous Iron	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID Sample Location Sampling Date Sample Depth		PDI-2-SO-75.5-20171116 PDI-2 11/16/2017 75.5 ft bgs		FD-01-SO-20171116 PDI-2 11/16/2017 75.5 ft bgs		PDI-2-SO-76.5-20171116 PDI-2 11/16/2017 76.5 ft bgs		PDI-2-SO-77.5-20171116 PDI-2 11/16/2017 77.5 ft bgs		PDI-5-SO-67.5-20171025 PDI-5 10/25/2017 67.5 ft bgs		PDI-5-SO-68-20171025 PDI-5 10/25/2017 68 ft bgs		PDI-5-SO-73-20171025 PDI-5 10/25/2017 73 ft bgs		PDI-5-SO-81-20171026 PDI-5 10/26/2017 81 ft bgs		PDI-6-SO-14-06132018 PDI-6 6/13/2018 14 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon																			
TOC	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane [3]	500000	ND	U	ND	U	ND	U	ND	U	**0.34**	J	**0.71**	J	**1.2**		**4.2**		ND	UJ
1,1,2,2-Tetrachloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,1,2-Trichcloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,1-Dichloroethane	240000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	**0.6**	J	ND	UJ
1,1-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2,4-Trichlorobenzene	NS	ND	UJ	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2-Dibromo-3-Chloropropane	NS	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2-Dichlorobenzene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2-Dichloroethane	30000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,2-Dichlorpropane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,3-Dichlorobenzene	280000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
1,4-Dichlorobenzene	130000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
2-Hexanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Acetone [3]	500000	**11**		**7.5**	J	ND	U	ND	UJ	ND	U	ND	U	ND	UJ	**10**		**5.4**	UJ
Benzene	44000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Bromodichlromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Bromoform	NS	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	UJ
Bromomethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Carbon Disulfide	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Carbon Tetrachloride	22000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Chlorobenzene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Chloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Chloroform	350000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Chloromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ
cis-1,2-Dichloroethylene [3]	500000	**0.26**	J	**0.28**	J	**0.36**	J	**0.57**	J	**0.46**	J	**0.88**		**0.45**	J	**1.3**		ND	UJ
cis-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Dibromochloromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Dichlorodifluromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Ethylbenzene	390000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Isopropylbenzene (Cumene)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Methyl Ethyl Ketone (2-Butanone) [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Methylene Chloride [3]	500000	**0.53**	J	**0.71**	J	**0.17**	J	ND	U	ND	U	ND	U	**0.19**	J	**1.2**		ND	UJ
Styrene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Tert-Butyl Methyl Ether [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	**0.32**	J	**1.1**		ND	UJ
Tetrachloroethylene (PCE)	150000	**0.16**	J	**0.16**	J	**0.26**	J	**0.33**	J	**29**		**48**		**2.2**		**0.31**	J	ND	UJ
Toluene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	**1.4**		ND	UJ
trans-1,2-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
trans-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Trichloroethylene (TCE)	200000	**10**	J	**10**	J	**16**	J	**29**	J	**100**		**180**		**38**		**29**		**1.2**	JL
Trichlorofluoromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Vinyl Chloride	13000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Xylenes, Total [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ
Metals																			
Ferrous Iron	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID		PDI-6-SO-16-06132018		PDI-106-SO-16-06132018		PDI-7-SO-17-06132018		PDI-8-SO-17-06132018		PDI-9-SO-17-06132018		PDI-10-SO-57-06182018		PDI-13-SO-53-06212018		PDI-113-SO-53-06212018		PDI-14-SO-55-06222018	
Sample Location		PDI-6		PDI-6		PDI-7		PDI-8		PDI-9		PDI-10		PDI-13		PDI-13		PDI-14	
Sampling Date		6/13/2018		6/13/2018		6/13/2018		6/13/2018		6/13/2018		6/18/2018		6/21/2018		6/21/2018		6/22/2018	
Sample Depth		16 ft bgs		16 ft bgs		17 ft bgs		17 ft bgs		17 ft bgs		57 ft bgs		53 ft bgs		53 ft bgs		55 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon																			
TOC	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane [3]	500000	**4.5**	JL	**3.3**	JHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,1,2,2-Tetrachloroethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,1,2-Trichcloroethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,1-Dichloroethane	240000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,1-Dichloroethene [3]	500000	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2,4-Trichlorobenzene	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2-Dibromo-3-Chloropropane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2-Dibromoethane (Ethylene Dibromide)	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2-Dichlorobenzene [3]	500000	ND	UJ	ND	UHT	**860**	JH	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2-Dichloroethane	30000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,2-Dichlorpropane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,3-Dichlorobenzene	280000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
1,4-Dichlorobenzene	130000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
2-Hexanone	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Acetone [3]	500000	**28**	UJ	ND	U	ND	UTHT	**8.1**	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ
Benzene	44000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Bromodichlromethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Bromoform	NS	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Bromomethane	NS	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Carbon Disulfide	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Carbon Tetrachloride	22000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Chlorobenzene [3]	500000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Chloroethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Chloroform	350000	**0.77**	JL	**0.69**	JHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Chloromethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
cis-1,2-Dichloroethylene [3]	500000	**1**	JL	ND	UHT	**1000**	THT	ND	UJ	ND	U	ND	UJ	**1.1**		**1.1**		**0.3**	JL
cis-1,3-Dichloropropene	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Cyclohexane	NS	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Dibromochloromethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Dichlorodifluromethane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Ethylbenzene	390000	ND	UJ	ND	UHT	**320**	JH	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Isopropylbenzene (Cumene)	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Methyl Acetate	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Methyl Ethyl Ketone (2-Butanone) [3]	500000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	**2.9**	JL	ND	UJ	ND	U	ND	UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Methylcyclohexane	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Methylene Chloride [3]	500000	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	UJ	ND	UJ	ND	UJ
Styrene	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Tert-Butyl Methyl Ether [3]	500000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Tetrachloroethylene (PCE)	150000	ND	UJ	ND	UHT	**17000**	THT	ND	UJ	ND	U	ND	UJ	**0.8**	J	**0.9**		**0.53**	JL
Toluene [3]	500000	ND	UJ	ND	UHT	**1300**	THT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
trans-1,2-Dichloroethene [3]	500000	ND	UJ	ND	UHT	ND	UHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
trans-1,3-Dichloropropene	NS	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Trichloroethylene (TCE)	200000	**170**	J	**1.3**	J	**42000**	THT	ND	UJ	ND	U	**17**	JL	**27**		**29**		**8.5**	JL
Trichlorofluoromethane	NS	**2.5**	JL	**1.9**	JHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Vinyl Chloride	13000	ND	UJ	ND	UHT	ND	UTHT	ND	UJ	ND	U	ND	UJ	ND	U	ND	U	ND	UJ
Xylenes, Total [3]	500000	ND	UJ	ND	UHT	**2000**	THT	ND	UJ	ND	U	ND	UJ	**0.36**	J	**0.53**	J	ND	UJ
Metals																			
Ferrous Iron	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

CDM Smith

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID		PDI-15-SO-52-06252018		PDI-16-SO-55-06262018		PDI-17-SO-60-06272018		PDI-17-SO-62-06272018		PDI-18-SO-21-06282018		PDI-19-SO-79-06282018		PDI-19-SO-80-06292018		PDI-20-SO-73-06292018		PDI-20-SO-74-06292018	
Sample Location		PDI-15		PDI-16		PDI-17		PDI-17		PDI-18		PDI-19		PDI-19		PDI-20		PDI-20	
Sampling Date		6/25/2018		6/26/2018		6/27/2018		6/27/2018		6/28/2018		6/28/2018		6/29/2018		6/29/2018		6/29/2018	
Sample Depth		52 ft bgs		55 ft bgs		60 ft bgs		62 ft bgs		21 ft bgs		79 ft bgs		80 ft bgs		73 ft bgs		74 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon																			
TOC	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	UJ	NA	
1,1,2,2-Tetrachloroethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,1,2-Trichcloroethane	NS	ND	U	ND	U	**0.27**	J	NA		ND	U	ND	U	NA		ND	U	NA	
1,1-Dichloroethane	240000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,1-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		**0.19**	J	NA	
1,2,4-Trichlorobenzene	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,2-Dibromo-3-Chloropropane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,2-Dibromoethane (Ethylene Dibromide)	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,2-Dichlorobenzene [3]	500000	ND	U	ND	U	ND	U	NA		**1.4**		ND	U	NA		**0.26**	J	NA	
1,2-Dichloroethane	30000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,2-Dichlorpropane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,3-Dichlorobenzene	280000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
1,4-Dichlorobenzene	130000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
2-Hexanone	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Acetone [3]	500000	ND	UJ	ND	UJ	ND	UJ	NA		ND	UJ	ND	UJ	NA		ND	UJ	NA	
Benzene	44000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Bromodichlromethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Bromoform	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Bromomethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Carbon Disulfide	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Carbon Tetrachloride	22000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Chlorobenzene [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Chloroethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Chloroform	350000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Chloromethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
cis-1,2-Dichloroethylene [3]	500000	ND	U	ND	U	**5.8**		NA		**1.7**		**0.24**	J	NA		**11**		NA	
cis-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Cyclohexane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Dibromochloromethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Dichlorodifluromethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Ethylbenzene	390000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Isopropylbenzene (Cumene)	NS	ND	U	ND	U	ND	U	NA		**0.16**	J	ND	U	NA		ND	U	NA	
Methyl Acetate	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	UT	NA		ND	UT	NA	
Methyl Ethyl Ketone (2-Butanone) [3]	500000	ND	U	ND	UJ	ND	UJ	NA		ND	UJ	ND	U	NA		ND	UJ	NA	
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Methylcyclohexane	NS	ND	U	ND	U	ND	U	NA		**0.36**	J	ND	U	NA		ND	U	NA	
Methylene Chloride [3]	500000	ND	UJ	**0.76**	J	ND	UJ	NA		ND	UJ	ND	UJ	NA		ND	UJ	NA	
Styrene	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Tert-Butyl Methyl Ether [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Tetrachloroethylene (PCE)	150000	ND	U	**0.34**	J	**2.5**		NA		**27**		**0.38**	J	NA		**34**		NA	
Toluene [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
trans-1,2-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
trans-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Trichloroethylene (TCE)	200000	**0.38**	J	**1.1**		**110**		NA		**17**		**9.8**		NA		**400**		NA	
Trichlorofluoromethane	NS	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Vinyl Chloride	13000	ND	U	ND	U	ND	U	NA		ND	U	ND	U	NA		ND	U	NA	
Xylenes, Total [3]	500000	ND	U	ND	U	**0.26**	J	NA		**0.55**	J	ND	U	NA		**0.28**	J	NA	
Metals																			
Ferrous Iron	NS	NA		NA		**1100**	JL	ND	R	NA		**880**	JL	**1100**	JL	**4600**	JL	**6200**	JL

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID		PDI-23-SO-18-20180725		PDI-123-SO-18-20180725		PDI-24-SO-18-20180725		PDI-25-SO-14-20180725		PDI-26-SO-17.5-031219		PDI-27-SO-17-031219		PDI-28-SO-16-031219		PDI-29-SO-17.5-031219		PDI-30-SO-17.5-031219	
Sample Location		PDI-23		PDI-23		PDI-24		PDI-25		PDI-26		PDI-27		PDI-28		PDI-29		PDI-30	
Sampling Date		7/25/2018		7/25/2018		7/25/2018		7/25/2018		3/12/2019		3/12/2019		3/12/2019		3/12/2019		3/12/2019	
Sample Depth		18 ft bgs		18 ft bgs		18 ft bgs		14 ft bgs		17.5 ft bgs		17 ft bgs		16 ft bgs		17.5 ft bgs		17.5 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon																			
TOC	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane [3]	500000	ND	U	ND	U	ND	U	ND	UJ	**0.34**	J	ND	U	ND	U	ND	U	**0.39**	J
1,1,2,2-Tetrachloroethane	NS	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichcloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	240000	ND	UJ	ND	UJ	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NS	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	30000	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorpropane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	280000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	130000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone [3]	500000	ND	UJ	ND	UJ	ND	UJ	ND	UJ	**5.2**	J	**4.9**	J	**7**	J	**3.9**	J	**13**	J
Benzene	44000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichlromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	22000	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	350000	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	NS	ND	U	ND	U	ND	U	ND	UT	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-Dichloroethylene [3]	500000	ND	U	ND	U	ND	U	ND	U	**4.4**	J	ND	U	ND	U	ND	U	**4.9**	
cis-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluromethane	NS	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	390000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Ethyl Ketone (2-Butanone) [3]	500000	ND	U	ND	U	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	**2.3**	J	ND	U	**2.6**	J
Styrene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	150000	ND	U	ND	U	0.91	J	ND	U	**1.5**	J	ND	U	ND	U	ND	U	**1.5**	J
Toluene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethylene (TCE)	200000	**3.2**	J	**4.3**	J	**20**		**2.5**	J	**29**		ND	U	**2.3**	J	9,8		**29**	
Trichlorofluoromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	13000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes, Total [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Metals																			
Ferrous Iron	NS	NA		NA		NA		NA		NA		NA		NA		NA		NA	

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

Table 4-3
Former Aluminum Louvre Site
Site No. 130195
Summary of Soil Sampling Results

Sample ID		PDI-31-SO-17.5-031219		PDI-32-SO-16-031219		PDI-33-SO-13-031319		PDI-34-SO-15-031319		PDI-35-SO-14-031319		PDI-36-SO-13.5-031319	
Sample Location		PDI-31		PDI-32		PDI-33		PDI-34		PDI-35		PDI-36	
Sampling Date		3/12/2019		3/12/2019		3/13/2019		3/13/2019		3/13/2019		3/13/2019	
Sample Depth		17.5 ft bgs		16 ft bgs		13 ft bgs		15 ft bgs		14 ft bgs		13.5 ft bgs	
Parameter ID	**NYSDEC Subpart 375-6.8(b) Restricted Commercial Use Soil Cleanup Objectives (mg/kg)**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**	**Concentration (µg/kg)**	**Qualifier Flag**
Total Organic Carbon													
TOC	NS	NA		NA		NA		NA		NA		NA	
Volatile Organic Compounds (VOCs)													
1,1,1-Trichloroethane [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2,2-Tetrachloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	UJ	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichcloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	240000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	NS	ND	U	ND	U	ND	U	ND	U	ND	UJ	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene [3]	500000	ND	U	ND	U	ND	U	**0.46**	J	ND	U	ND	U
1,2-Dichloroethane	30000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorpropane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	280000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	130000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone [3]	500000	**8.3**	J	**5.6**	J	**13**	J	**5.5**	J	**9.1**	JT	**8.9**	J
Benzene	44000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichlromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Disulfide	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	22000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	350000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
cis-1,2-Dichloroethylene [3]	500000	**3.7**	J	ND	U	ND	U	**6.1**		**0.75**	J	ND	U
cis-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	390000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Ethyl Ketone (2-Butanone) [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	UT	ND	U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	NS	ND	U	ND	U	ND	U	ND	U	ND	UT	ND	U
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride [3]	500000	**2.6**	J	**2.2**	J	**3**	J	**2.1**	J	**2.4**	J	**2.6**	J
Styrene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	150000	ND	U	ND	U	ND	U	**19**		**1.6**	J	ND	U
Toluene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,2-Dichloroethene [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
trans-1,3-Dichloropropene	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethylene (TCE)	200000	**21**		ND	U	**2.7**	J	**19**		**2.7**	J	ND	U
Trichlorofluoromethane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	13000	**0.71**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes, Total [3]	500000	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Metals													
Ferrous Iron	NS	NA		NA		NA		NA		NA		NA	

Key:
B - analyte detected in the associated method blank
H - biased high
J - detected above the method detection limit, but below the reporting limit; value is estimated
L - biased low
R - indicates the reported result is unusable; analyte may or may not be present
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
ft bgs - feet below ground surface
ID - identification
µg/kg - microgram per kilogram
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TOC - total organic carbon
TSD - technical support document

Notes:
1. All values shown in µg/kg.
2. Results shaded in light blue fill have exceeded NYSDEC Subpart 375-6.8(b) Restricted Commerical Use Soil Clean

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-1-GW-75-20171117		PDI-2-GW-72-75-20171116		PDI-3-GW-80-85-20171024		PDI-5-GW-72-75-20171026		PDI-5-GW-80-85-20171026		GW-FD-01-20171026		PDI-10-WG-74-06182018	
	Location ID	PDI-1		PDI-2		PDI-3		PDI-5		PDI-5		FD-01		PDI-10	
	Sample Date	11/17/2017		11/16/2017		10/24/2017		10/26/2017		10/26/2017		10/26/2017		6/18/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	5	ND	U	ND	U	**0.91**	J	ND	U	**1.8**	J	**2.3**	J	ND	U
1,1,2,2-Tetrachloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	0.04	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	0.6	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	50	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	50	ND	U	**4**	J	ND	U	**25**		ND	U	ND	U	ND	UJ
Benzene	1	ND	U	ND	U	ND	U	**0.093**	J	ND	U	ND	U	ND	U
Bromodichloromethane	50	**0.67**	J	**0.37**	J	ND	U	ND	U	ND	U	ND	UJ	ND	U
Bromoform	50	**0.52**	J	**0.61**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	5	ND	U	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	U	ND	U
Carbon Disulfide	NS	ND	U	ND	U	ND	U	**0.73**	J	ND	U	ND	U	ND	U
Carbon Tetrachloride	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	5	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	7	**0.84**	J	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cis-1,2-Dichloroethylene	5	ND	U	ND	U	**4.2**		**1.1**		**9.1**		**9**		ND	U
Cis-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	50	**0.52**	J	**0.47**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	5	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Ethyl Ketone (2-Butanone)	50	ND	U	ND	U	ND	U	**4.7**	J	ND	U	ND	U	ND	U
Methyl Isobutyl	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether	NS	ND	U	ND	U	ND	U	ND	U	**0.7**	J	**0.72**	J	ND	U
Tetrachloroethylene (PCE)	5	ND	U	**0.38**	J	**5.1**		**1.4**		**22**		**23**		ND	U
Toluene	5	ND	U	ND	U	ND	U	**0.64**	J	ND	U	ND	U	ND	U
Trans-1,2-Dichloroethene	5.00	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trans-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethylene (TCE)	5	**2.3**		**9.9**		**190**		**23**		**640**		**640**		**9.4**	
Trichlorofluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	2	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes, Total	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-1-GW-75-20171117		PDI-2-GW-72-75-20171116		PDI-3-GW-80-85-20171024		PDI-5-GW-72-75-20171026		PDI-5-GW-80-85-20171026		GW-FD-01-20171026		PDI-10-WG-74-06182018	
	Location ID	PDI-1		PDI-2		PDI-3		PDI-5		PDI-5		FD-01		PDI-10	
	Sample Date	11/17/2017		11/16/2017		10/24/2017		10/26/2017		10/26/2017		10/26/2017		6/18/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	NS	1.8		NA		NA		0.27	J	0.69		0.58		NA	
Per- and Polyfluoroalkyl Substances (PFAS)															
Perluorobutanesulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorobutyric Acid (PFBA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorodecane Sulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorodecanoic Acid (PFDA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorododecanoic Acid (PFDoA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroheptane Sulfonate (PFHpS)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroheptanoic Acid (PFHpA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorohexanesulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorohexanoic Acid (PFHxA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorononanoic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctane Sulfonamide (FOSA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctane Sulfonic Acid (PFOS)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctanoic acid (PFOA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoropentanoic Acid (PFPeA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorotetradecanoic Acid (PFTeA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorotridecanoic Acid (PFTriA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroundecanoic Acid (PFUnA)	NS	NA		NA		NA		NA		NA		NA		NA	
PFOS + PFOA	0.07	NA		NA		NA		NA		NA		NA		NA	

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
ft bgs - feet below ground surface
ID - identification
NYSDEC - New York State Department of Environmental Conservation
TOGS - technical and operational guidance series
µg/l - microgram per liter

Notes:
1. All values shown in µg/l.
2. Results shaded in light blue fill have exceeded NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA groundwater.

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-11-WG-75-06182018		PDI-111-WG-75-06182018		PDI-12-WG-75-06202018		PDI-13-WG-75-06212018		PDI-14-WG-75-06222018		PDI-15-WG-75-06252018		PDI-16-WG-75-06262018	
	Location ID	PDI-11		PDI-11		PDI-12		PDI-13		PDI-14		PDI-15		PDI-16	
	Sample Date	6/18/2018		6/18/2018		6/20/2018		6/21/2018		6/22/2018		6/25/2018		6/26/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	**0.46**	J	**1.6**	
1,1,2,2-Tetrachloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	0.04	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UJ	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	0.6	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	50	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	50	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	UJ
Benzene	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromodichloromethane	50	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	50	**0.81**	J	ND	UJ	**0.9**	J	ND	U	**0.83**	J	ND	UJ	ND	U
Bromomethane	5	ND	U	ND	U	ND	UJ	ND	UJ	ND	U	ND	UT	ND	U
Carbon Disulfide	NS	ND	U	ND	U	ND	U	ND	U	**0.52**	J	ND	U	ND	U
Carbon Tetrachloride	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	UT	ND	U
Chloroform	7	**0.4**	J	**0.42**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	5	ND	U	ND	U	ND	U	ND	U	**0.24**	J	ND	U	ND	U
Cis-1,2-Dichloroethylene	5	ND	U	ND	U	ND	UJ	ND	UJ	ND	U	ND	U	**1.9**	
Cis-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	50	**0.6**	J	ND	UJ	**0.35**	J	ND	U	**0.42**	J	ND	UJ	ND	U
Dichlorodifluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Ethyl Ketone (2-Butanone)	50	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Isobutyl	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	5	ND	U	ND	U	**0.43**	J	**0.26**	J	**0.31**	J	**0.48**	J	**2.7**	
Toluene	5	ND	U	ND	U	ND	U	ND	U	**0.51**	J	ND	U	**0.58**	J
Trans-1,2-Dichloroethene	5.00	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trans-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethylene (TCE)	5	**13**		**13**		ND	U	**8.5**		**3.6**		**15**		**85**	
Trichlorofluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Vinyl Chloride	2	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes, Total	5	ND	U	ND	U	ND	U	ND	U	**1.8**	J	ND	U	ND	U

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-11-WG-75-06182018		PDI-111-WG-75-06182018		PDI-12-WG-75-06202018		PDI-13-WG-75-06212018		PDI-14-WG-75-06222018		PDI-15-WG-75-06252018		PDI-16-WG-75-06262018	
	Location ID	PDI-11		PDI-11		PDI-12		PDI-13		PDI-14		PDI-15		PDI-16	
	Sample Date	6/18/2018		6/18/2018		6/20/2018		6/21/2018		6/22/2018		6/25/2018		6/26/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	NS	NA		NA		NA		NA		NA		NA		NA	
Per- and Polyfluoroalkyl Substances (PFAS)															
Perluorobutanesulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorobutyric Acid (PFBA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorodecane Sulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorodecanoic Acid (PFDA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorododecanoic Acid (PFDoA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroheptane Sulfonate (PFHpS)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroheptanoic Acid (PFHpA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorohexanesulfonic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorohexanoic Acid (PFHxA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorononanoic Acid	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctane Sulfonamide (FOSA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctane Sulfonic Acid (PFOS)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorooctanoic acid (PFOA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoropentanoic Acid (PFPeA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorotetradecanoic Acid (PFTeA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluorotridecanoic Acid (PFTriA)	NS	NA		NA		NA		NA		NA		NA		NA	
Perfluoroundecanoic Acid (PFUnA)	NS	NA		NA		NA		NA		NA		NA		NA	
PFOS + PFOA	0.07	NA		NA		NA		NA		NA		NA		NA	

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
ft bgs - feet below ground surface
ID - identification
NYSDEC - New York State Department of Environmental Conservation
TOGS - technical and operational guidance series
µg/l - microgram per liter

Notes:
1. All values shown in µg/l.
2. Results shaded in light blue fill have exceeded NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA groundwater.

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-17-WG-75-06272018		PDI-19-WG-85-06282018		PDI-20-WG-85-06292018		PDI-MW-161-1-I-06262018		MW-161-3-20180725		MW-161-4-20180724		MW-1161-4-20180724	
	Location ID	PDI-17		PDI-19		PDI-20		MW-161-1		MW-161-3		MW-161-4		MW-161-4	
	Sample Date	6/27/2018		6/28/2018		6/29/2018		6/26/2018		7/25/2018		7/24/2018		7/24/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Volatile Organic Compounds (VOCs)															
1,1,1-Trichloroethane	5	ND	U	**2.1**		ND	U	**1.6**		**0.59**	J	**0.46**	J	**0.48**	J
1,1,2,2-Tetrachloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,1,2-Trichloroethane	1	ND	U	**0.5**	J	ND	U	ND	U	ND	UT	ND	U	ND	U
1,1-Dichloroethane	5	ND	U	**0.72**	J	ND	U	ND	U	ND	U	ND	U	ND	U
1,1-Dichloroethene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2,4-Trichlorobenzene	5	ND	U	ND	UT	ND	UT	ND	U	ND	U	ND	U	ND	U
1,2-Dibromo-3-Chloropropane	0.04	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloroethane	0.6	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,2-Dichloropropane	1	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,3-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
1,4-Dichlorobenzene	3	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
2-Hexanone	50	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Acetone	50	ND	UJ	ND	UJ	ND	UJ	ND	UJ	ND	U	ND	U	ND	U
Benzene	1	ND	U	ND	U	ND	U	ND	U	ND	UT	ND	U	ND	U
Bromodichloromethane	50	**0.59**	J	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromoform	50	**0.66**	J	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Bromomethane	5	ND	UJ	ND	U	ND	U	ND	U	ND	UJ	ND	UJ	ND	UJ
Carbon Disulfide	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Carbon Tetrachloride	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chlorobenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloroform	7	ND	J	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Chloromethane	5	ND	U	**0.31**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Cis-1,2-Dichloroethylene	5	ND	U	**17**		**0.61**	J	**13**		**2**		**1.3**		**1.5**	
Cis-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Cyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Dibromochloromethane	50	**0.69**	J	**0.44**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Dichlorodifluoromethane	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Ethylbenzene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Isopropylbenzene (Cumene)	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Acetate	NS	ND	U	ND	U	ND	U	ND	U	ND	UT	ND	UT	ND	UT
Methyl Ethyl Ketone (2-Butanone)	50	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methyl Isobutyl	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylcyclohexane	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Methylene Chloride	5	ND	U	ND	UJ	ND	U	ND	U	ND	U	ND	U	ND	U
Styrene	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tert-Butyl Methyl Ether	NS	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Tetrachloroethylene (PCE)	5	**0.25**	J	**1.9**		**0.29**	J	**15**		**4**		**3.4**		**3.5**	
Toluene	5	ND	U	**0.67**	J	ND	U	ND	U	ND	U	ND	U	ND	U
Trans-1,2-Dichloroethene	5.00	ND	U	ND	U	ND	U	**0.33**	J	ND	U	ND	U	ND	U
Trans-1,3-Dichloropropene	0.4	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Trichloroethylene (TCE)	5	**3.8**		**460**		**14**		**370**		**54**	J	**51**		**52**	
Trichlorofluoromethane	5	ND	U	ND	U	ND	U	**1.1**		**0.76**	J	**0.61**	J	**0.71**	J
Vinyl Chloride	2	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U
Xylenes, Total	5	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U	ND	U

Table 4-4
Former Aluminum Louvre Site
Site No. 130195
Summary of Groundwater Sampling Results

	Sample ID	PDI-17-WG-75-06272018		PDI-19-WG-85-06282018		PDI-20-WG-85-06292018		PDI-MW-161-1-I-06262018		MW-161-3-20180725		MW-161-4-20180724		MW-1161-4-20180724	
	Location ID	PDI-17		PDI-19		PDI-20		MW-161-1		MW-161-3		MW-161-4		MW-161-4	
	Sample Date	6/27/2018		6/28/2018		6/29/2018		6/26/2018		7/25/2018		7/24/2018		7/24/2018	
Parameter ID	**NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values (µg/l)**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**	**Concentration (µg/l)**	**Qualifier Flag**
Semi-volatile Organic Compounds (SVOCs)															
1,4-Dioxane	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Per- and Polyfluoroalkyl Substances (PFAS)															
Perluorobutanesulfonic Acid	NS	NA		NA		NA		**0.0013**	J	**0.0013**	J	**0.0012**	J	**0.00094**	J
Perfluorobutyric Acid (PFBA)	NS	NA		NA		NA		**0.0052**		**0.0052**		**0.0047**		**0.0041**	
Perfluorodecane Sulfonic Acid	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Perfluorodecanoic Acid (PFDA)	NS	NA		NA		NA		**0.00054**	J	**0.00051**	J	**0.00065**	J	**0.00054**	J
Perfluorododecanoic Acid (PFDoA)	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Perfluoroheptane Sulfonate (PFHpS)	NS	NA		NA		NA		ND	U	ND	U	**0.00019**	J	ND	U
Perfluoroheptanoic Acid (PFHpA)	NS	NA		NA		NA		**0.0055**		**0.0034**		**0.0043**		**0.0038**	
Perfluorohexanesulfonic Acid	NS	NA		NA		NA		ND	UJ	ND	UJ	ND	UJ	ND	UJ
Perfluorohexanoic Acid (PFHxA)	NS	NA		NA		NA		**0.0067**		**0.0047**		**0.0064**		**0.0052**	
Perfluorononanoic Acid	NS	NA		NA		NA		**0.0049**		ND	UJ	ND	UJ	ND	UJ
Perfluorooctane Sulfonamide (FOSA)	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Perfluorooctane Sulfonic Acid (PFOS)	NS	NA		NA		NA		**0.015**		**0.028**		**0.016**		**0.016**	
Perfluorooctanoic acid (PFOA)	NS	NA		NA		NA		**0.014**		**0.008**		**0.007**		**0.0078**	
Perfluoropentanoic Acid (PFPeA)	NS	NA		NA		NA		**0.0069**		**0.0053**		**0.0086**		**0.0078**	
Perfluorotetradecanoic Acid (PFTeA)	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Perfluorotridecanoic Acid (PFTriA)	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
Perfluoroundecanoic Acid (PFUnA)	NS	NA		NA		NA		ND	U	ND	U	ND	U	ND	U
PFOS + PFOA	0.07	NA		NA		NA		**0.029**		**0.036**		**0.023**		**0.0238**	

Key:
J - detected above the method detection limit, but below the reporting limit; value is estimated
T - indicates that a quality control parameter has exceeded laboratory limits
U - analyte not detected at or above the method detection limit
NA - not analyzed
ND - not detected or not reportable
NS - no standard exists
ft bgs - feet below ground surface
ID - identification
NYSDEC - New York State Department of Environmental Conservation
TOGS - technical and operational guidance series
µg/l - microgram per liter

Notes:
1. All values shown in µg/l.
2. Results shaded in light blue fill have exceeded NYSDEC TOGS 1.1.1 Ambient Water Quality Standards and Guidance Values for Class GA groundwater.

Table 6-1
Former Aluminum Louvre Site
Site No. 130195
Summary of Performance Criteria

Contaminant of Concern	NYSDEC Subpart 375-6.8(a) and 375-6.8(b) SCOs (µg/kg)					Site-Specific Protection of Groundwater (µg/kg)[4]
	Unrestricted Use	Restricted Commercial Use	Restricted Industrial Use	Protection of Ecological Resources	Protection of Groundwater	
Trichloroethene	470	200,000	400,000	2,000	470	4,970
Tetrachloroethene	1,300	150,000	300,000	1,300	1,300	14,010
***cis*- 1,2-Dichloroethene**[3]	250	500,000 [1]	1,000,000 [2]	NS	250	1,880
1,1,1-Trichloroethane[3]	680	500,000 [1]	1,000,000 [2]	NS	680	7,140
Toluene	700	500,000 [1]	1,000,000 [2]	36,000	700	7,400
Xylenes, Total	260	500,000 [1]	1,000,000 [2]	260	1,600	12,960

Key:
NS - no SCO was developed
NYSDEC - New York State Department of Environmental Conservation
SCO - soil cleanup objective
TSD - technical support document
µg/kg - microgram per kilogram

Notes:
1. The SCOs for commercial use were capped at a maximum value of 500 ppm. See TSD section 9.3.
2. The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1,000 ppm. See TSD section 9.3.

3. Protection of ecological resources SCOs were not developed for contaminants identified in Table 375-6.8(b) with "NS". Where such contaminants appear in Table 375-6.8(a), the applicant may be required by the Department to calculate a protection of ecological resrouces SCO according to the TSD.
4. Calculations for Site-Specific Impact to Groundwater are shown in Table 6-2.

Table 6-2
Former Aluminum Louvre Site
Site No. 130195
Calculation of Site-Specific Protection of Groundwater Soil Concentration

Contaminant of Concern	Organic Carbon Partition Coefficient (K_{oc}) [1] (l/kg)	Fraction Organic Carbon (f_{oc}) [2] (g/g)	Dilution/Attenuation Factor [1]	Groundwater cleanup goal (µg/l)	Site-Specific Protection of Groundwater [3] (µg/kg)
Trichloroethene	94	0.0066	20	400	4,970
Tetrachloroethene	265	0.0066	20	400	14,010
cis-1,2-Dichloroethene	36	0.0066	20	400	1,880
1,1,1-Trichloroethane	135	0.0066	20	400	7,140
Toluene	140	0.0066	20	400	7,400
Xylenes, Total	245	0.0066	20	400	12,960

Key:
ft bgs - feet below ground surface
l/kg - liter per kilogram
g/g - gram per gram
µg/l - microgram per liter
µg/kg - microgram per kilogram
US EPA - United States Environmental Protection Agency

Notes:
1. US EPA. 1996. Soil Screening Guidance: Technical Background Document. Washington, DC: Office of Solid Waste and Emergency Response, EPA/540/R95/128
2. Total Organic Carbon content collected on 11/17/2017 by CDM Smith in gray clay layer approximately 16 ft bgs.
3. These result values are a product of K_{oc}, f_{oc}, dilution factor, and the groundwater cleanup goal for each contaminant.

CDM Smith

Appendix A

Geophysical Survey Results and Markout Figures

ADVANCED GEOLOGICAL SERVICES

Malvern, PA19355
(610) 722-5500 (ph.)
(610) 722-0250 (fax)

April 23, 2019

Ms. Amy Picunas
CDM Smith
11 British American Boulevard
Suite 200
Latham, New York

Subject: Geophysical Investigation Results
Former Aluminum Louvre Site
Old Bethpage, New York

Dear Ms. Amy Picunas

Advanced Geological Services (AGS) presents this letter report to CDM Smith of Latham, New York detailing the methods and results of the geophysical investigation conducted at the Former Aluminum Louvre site located at 161 Bethpage-Sweethollow Road, Old Bethpage, New York. The objective of the geophysical investigation was to locate and identify potential utilities and to "clear" several proposed drilling locations. The field activities for this geophysical investigation were completed by AGS on March 6, 2019.

Methods

The ground penetrating radar (GPR), radio frequency (RF) and metal detection (MD) methods were utilized for this geophysical investigation. To locate utilities within the survey area AGS collected RF data in a grid pattern and placed a traceable signal on surficially identifiable utilities. The survey area was scanned with the MD instrument looking for potential utilities that had a metallic signature. Additional GPR profiles were collected throughout the site to locate potential utilities not identified with the other geophysical methods.

All identified utilities were marked with spray paint according to the American Public Works Association (APWA) color code. AGS collected GPS locations using an instrument with a sub-meter accuracy for each identified utility.

AGS scanned the each proposed drilling location with the RF instrument looking for potentially active electric lines. Each proposed drilling location was further scanned with the MD instrument to locate potential metallic anomalies that could be associated with utilities or other

buried metallic obstructions. GPR profiles were collected in a grid like pattern centered at proposed drilling location.

Ground Penetrating Radar (GPR) Method

The ground penetrating radar (GPR) method was used to locate and identify potential utilities and other buried features. The GPR method is based upon the transmission of repetitive, radio frequency electromagnetic (EM) pulses into the subsurface. When the transmitted energy of down going wave contacts an interface of dissimilar electrical character, part of the energy is returned to the surface in the form of a reflected signal. This reflected signal is detected by a receiving transducer and is displayed on the screen of the GPR unit as well as being recorded on the internal hard-drive. The received GPR response remains constant as long as the electrical contrast between media is present and constant. Lateral or vertical changes in the electrical properties of the subsurface result in equivalent changes in the GPR responses. The system records a continuous image of the subsurface by plotting two way travel time of the reflected EM pulse versus distance traveled along the ground surface. Two way travel time values are then converted to depth using known soil velocity functions.

The GPR field procedures involved (1) instrument calibration, (2) test run completion, (3) production profile collection and recording, and (4) data storage for subsequent processing and analysis in the office. Each radar profile was examined for characteristic GPR signatures that may indicate the presence of buried targets. A Geophysical Survey System SIR System 3000 and a 400 megahertz (MHz) antenna were used with a recording window of 60 nanoseconds (ns) to provide the required depth penetration and subsurface detail.

Radio Frequency (RF) Utility Locating Method

A Radiodetection RD400/PDL2 multi-frequency RF utility locating system was used for this project to locate potential electric lines and other surficially identifiable utilities and/or features. This instrument consists of a receiver/tracer and a remote transmitter, which operates at frequencies ranging between 8 kHz and 65 kHz. In addition, the receiver can be used in 60 Hz passive mode to identify active buried electrical lines. This utility tracing instrument provides audible and visual feedback to the operator when a utility that is coupled with the transmitted signal is crossed. The transmitter produces a radio-frequency signal in the utility to be traced by either induction coupling or direct hook-up. The receiver output provides measured field strength of the received signal and varies an audible pitch depending upon how far the utility is from the receiver. By carefully adjusting the gain of the receiver it is possible to

determine the location of the utility and to separate it from adjacent utilities.

Hand Held Metal Detection (MD) Method

The survey area and each proposed drilling location was scanned using a hand held metal detection (MD) instrument. This method uses the principle of electromagnetic induction to detect shallow buried metal objects such as USTs, metal utility conduits, rebar in concrete, manhole covers, and various metallic debris. This is done by carrying a hand-held radio transmitter-receiver unit above the ground and continuously scanning the surface. A primary coil broadcasts a radio signal from a transmitter. This primary radio signal induces secondary electrical currents in metal objects. These secondary currents in turn produce a magnetic field which is detected by the receiver.

The MD instrument used for this investigation was a Fisher TW-6 pipe and cable locater. This instrument is expressly designed to detect metallic pipes, cables, USTs, manhole covers, and other buried metallic objects. The instrument produces an audible response and significant meter deflections when near a metal object. The peak instrument response usually occurs when the unit is directly over the object.

Results

Figure 1 is a map showing the identified utilities and site features. The aerial photograph was taken and published in 2016. It was downloaded from https://gis.ny.gov. All coordinates shown on Figure 1 are in the NAD1983 New York Long Island state plane coordinate system with all units in feet. The GPS instrument has sub-meter accuracy. AGS is not a licensed surveyor so all locations should be considered approximate. All identified utilities were marked on the ground surface with spray paint according to the APWA color code.

AGS identified one utility of an unknown type (Figure 1). The utility's depth is unknown. Additionally AGS identified three dry wells. No utilities were identified entering these structures and each appeared to extend to a radius between 4 and 5 feet, centered at the storm grate at the surface.

AGS "cleared" numerous proposed drilling locations. Each "cleared" proposed drilling location exhibited a reflection-free GPR signature and no RF or MD response. The final locations for each proposed drilling location was discussed and reviewed with the onsite representative.

Closing

AGS identified several utilities and "cleared" several proposed drilling locations. Upon completion of the geophysical investigation AGS reviewed the results with the onsite CDM Smith representative.

All geophysical data and field notes collected as a part of this investigation will be stored at the AGS office. The data collection and interpretation methods used in this investigation are consistent with standard practices applied to similar geophysical investigations. The correlation of geophysical responses with probable subsurface features is based on the past results of similar surveys although it is possible that some variation could exist at this site. Due to the nature of geophysical data, no guarantees can be made or implied regarding the presence or absence of additional objects or targets beyond those identified.

If you have any questions regarding the results of this field investigation, please contact me at 610-722-5500. It was a pleasure working with you on this project and we look forward to being able to provide you with sub-surface imaging services in the future.

Sincerely,
Prepared by

Christopher Call P.G.
Senior Geophysicist

Encl.: Figure 1: Identified Utilities & Site Features

Legend

- Unknown Utility Type
- Dry Well

N
North

Scale
0 25 50 75 100
(feet)

Notes:
1) AGS utilized a Ground Penetrating Radar System with a 400 MHz antenna, a RF and a HD instruments for this geophysical investigation. All identified utilities were marked on the ground surface with spray paint according to the APWA standard.
2) AGS identified one utility of an unknown type and three dry wells.
3) AGS utilized a GPS instrument with a sub-meter accuracy to obtain coordinates for the utilities identified during this geophysical investigation. The locations shown above are in the NAD1983 New York State plane coordinate system with all units in feet.
4) The aerial photograph was downloaded from https://gis.ny.gov/. The photograph was taken in 2016.
5) AGS is not a licensed surveyor so all locations should be considered approximate.
6) The items shown on this figure may not be all inclusive. AGS does not warrant the fact that additional buried features might be present at this site.

ADVANCED GEOLOGICAL SERVICES

FIGURE 1
Former Aluminum Louvre Site
Identified Utilities
and Site Features

LOCATION: 161 Bethpage-Sweethollow Rd, Old Bethpage, New York

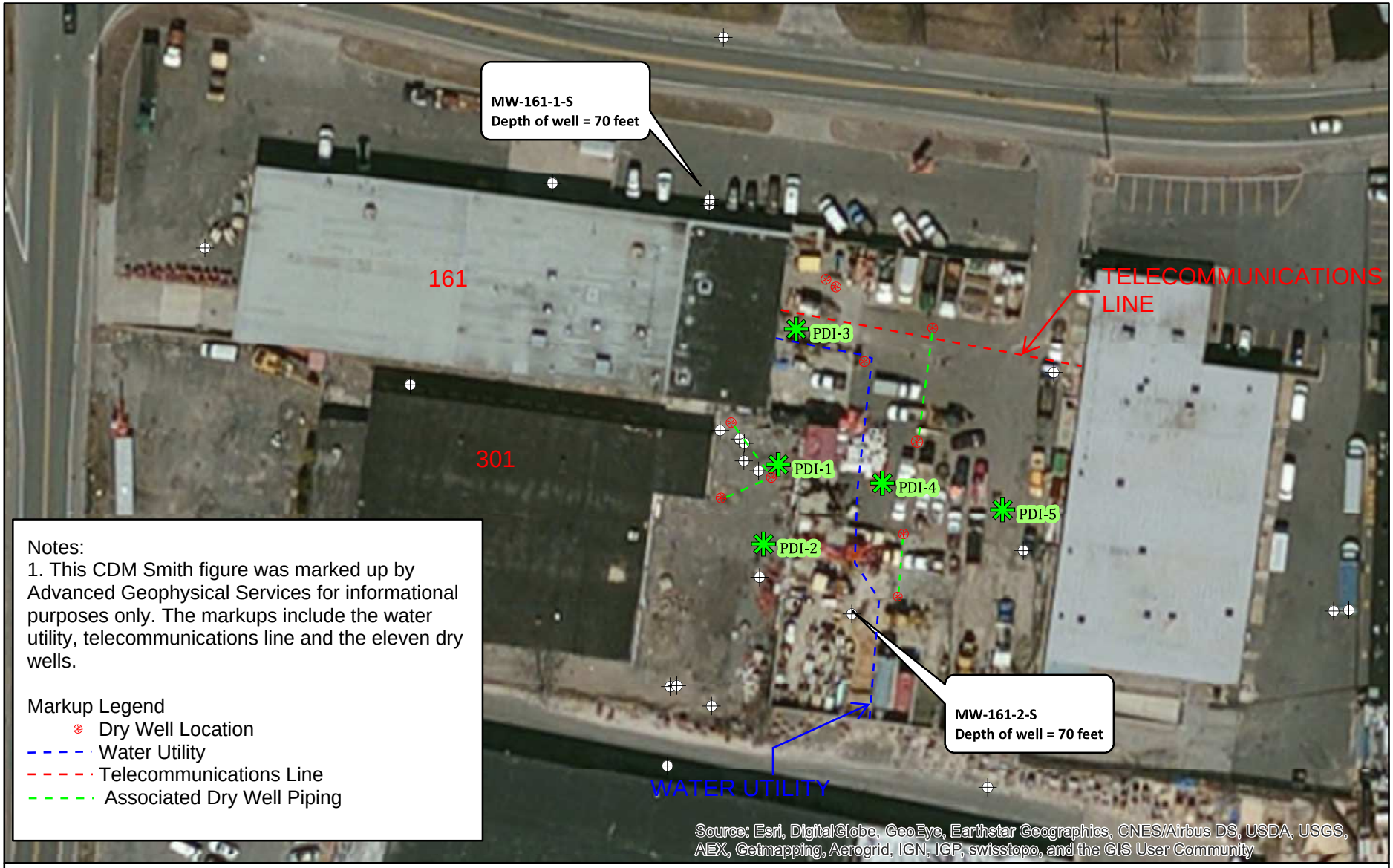
CLIENT: CDM

FIGURE 1

ADVANCED GEOLOGICAL SERVICES, INC.

DATE: April 23, 2019

DRAWN BY: C. Call



Notes:
1. This CDM Smith figure was marked up by Advanced Geophysical Services for informational purposes only. The markups include the water utility, telecommunications line and the eleven dry wells.

Markup Legend
- Dry Well Location
- Water Utility
- Telecommunications Line
- Associated Dry Well Piping

Legend
- PDI GeoProbe Locations
- Existing Monitoring Wells

N

0 50 100 200 Feet

PDI Locations

Figure 1
Former Aluminum Louvre

CDM Smith

GURRC \\Nynsvr1\ms\GIS\Former Aluminum Louvre\Former Aluminum Louvre\02_MXD\Schedule 1 Figure 1 - PDI Sampling Locations.mxd 3/16/2017

Existing Utilities - Geophysical Survey Utility Markout July 2018

Figure 2
Former Aluminum Louvre
Old Bethpage, NY

N

Notes:
1. This figure represents the results of the GPR survey performed in July 2018 by Advanced Geophysical Services. The utilities markup on this figure are based on field measurements and are for informational purposes only.

1 inch = 12 feet

0 6 12 24 Feet

CDM Smith

ESTRADAL \\albsvr2\Alb2_Projects\NYSDEC D007621\WA#27 - FAL RD\GIS\02_MXD\PDI Figures\Supplement Figures\Existing Utilities - GPR July 2018.mxd 1/17/2019

Appendix B

Soil Borings Logs

Soil Boring Log
Former Aluminum Louvre

Boring: PDI-1

Project Number 215958 Total Depth 90

Date 11/17/2017

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
0				
1				
2				
3				
4				
5			moist, Only 1 ft recovery, not recovrrrd in sleeve	
6				
7				
8				
9				
10			wet (saturated), Brown	
11				
12				
13				
14				
15			wet (saturated), Brown	
16				
17				
18				
19				
20			moist, medium dense, Brown dand, brown to dark gray silty clay1 ft sand, 18 inches of silty clay	
21				
22				
23				
24				
25			moist to wet,	
26				

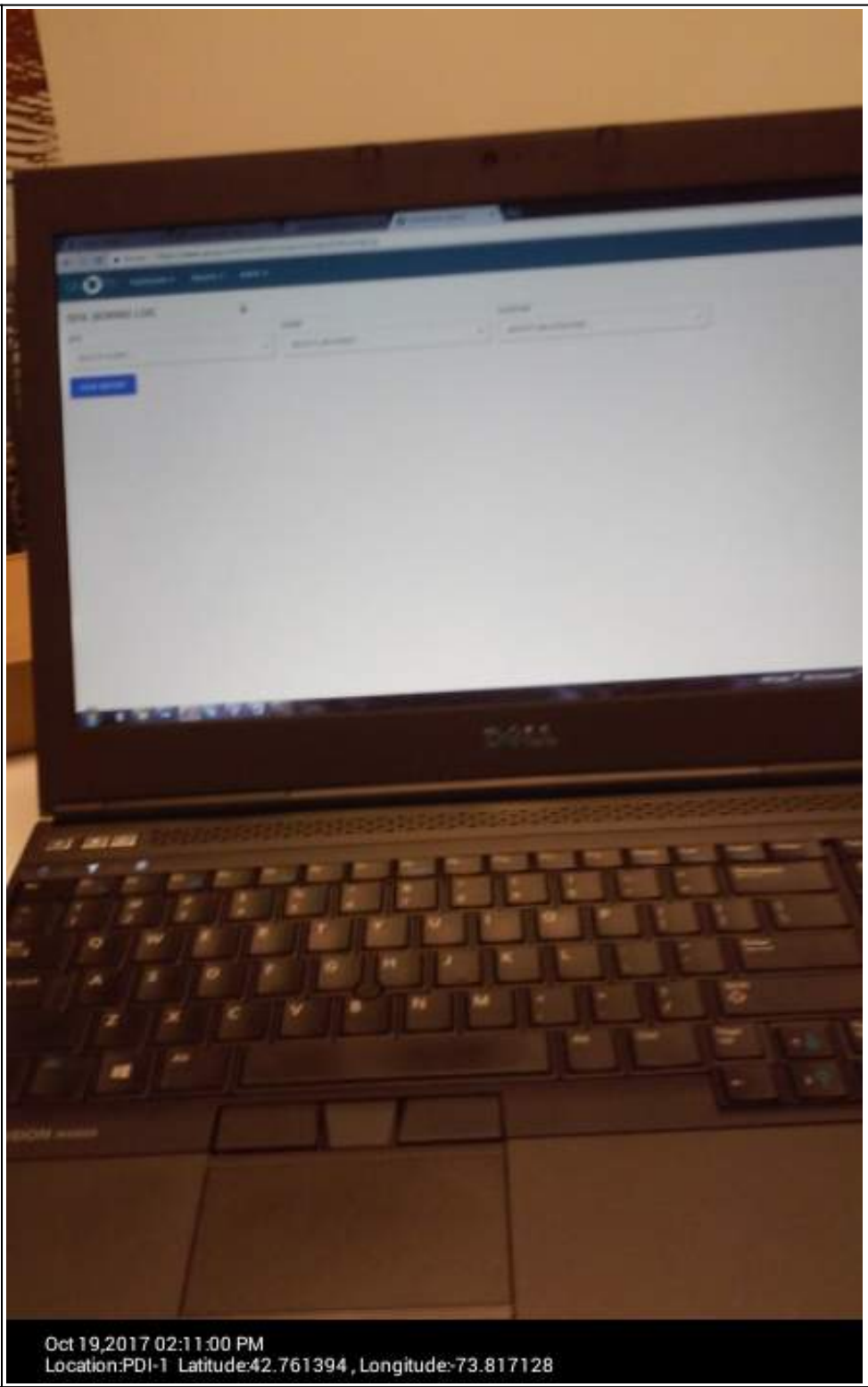
Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
27				
28			dry, dense, Orange brown sand, dark gray silty, dense	
29	2.7			
30				
31				
32				
33				
34				
35			dry, loose, Soft, Light brown to brownPid 21.0 at 34 ft	
36				
37				
38				
39				
40			dry, very loose, Soft, Light brown to brownRecovery 38 in	
41				
42				
43				
44				
45			No recovery 40-45	
46				
47				
48				
49				
50			moist, loose, Soft, BrownRecovery 36 in, wet due to drilling	
51				
52				
53				
54				
55			dry, loose, Soft, BrownRecovery 48 in	

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
56				
57				
58			moist, loose, Soft, Orange brown with somr dark gray	
59				
60			dry, loose, Light brownSome stone, PID 1.5 PPM at 59 ft	
61				
62				
63			dry, loose, Soft, Brown	
64				
65			dry, medium dense, Orange brown with dark grayHard packed sand, becomes silty clay at 65	
66				
67				
68			moist, medium dense, Soft, Orange brown and gray	
69				
70			dry, dense, Hard, Dark grayHard, dark gray crumbly silty material, brittle	
71				
72				
73				
74				
75			wet (saturated), medium dense, Soft, BrownRecovrry 4 ft, water table at approx 70	
76				
77				
78				
79				
80			moist to wet, dense, Medium Stiff, Brown and orange brownDense, hard packed sand	
81				
82				
83				
84				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
85				moist, dense, Hard, Orange brown sand to brown/gray clay	
86					
87					
88					
89					
90				moist, medium dense, Brown to orange brownClay/silty clay to approx 88 ft, then orange brown sand to 90 **End of Boring**	
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					
107					
108					
109					
110					
111					
112					

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137				
138				
139				
140				
141				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
142					
143					
144					
145					
146					
147					
148					
149					
150					


Oct 19,2017 02:11:00 PM
Location:PDI-1 Latitude:42.761394 , Longitude:-73.817128

PDI 1 rig set up

PDI 1 5 -10 ft

Nov 17,2017 09:15:10 AM
Location:PDI-1 Latitude:40.760953 , Longitude:-73.443726

PDI 1 10-15 ft bgs

PDI 1 15- 20 ft

Nov 17,2017 09:36:41 AM
Location:PDI-1 Latitude:40.760986 , Longitude:-73.443706

PDI 1 brown and dark gray silty clay layer approx 16.5 -18 ft bgs

PDI 1 20- 25 ft

Nov 17,2017 11:03:29 AM
Location:PDI-1 Latitude:40.760972 , Longitude:-73.443771

PDI 1 dense dark silty approx 27-28 ft	

PDI 1 29-30 ft

Nov 17,2017 11:20:18 AM
Location:PDI-1 Latitude:40.760982 , Longitude:-73.443755

PDI 1 30 -35 ft

Nov 17,2017 11:25:59 AM
Location:PDI-1 Latitude:40.760973 , Longitude:-73.443771

PDI 1 35-40

Nov 17,2017 11:30:55 AM
Location:PDI-1 Latitude:40.760992 , Longitude:-73.443769

PDI 1 45- 50 ft	
PDI 1 50-55 ft	

PDI 1 57-58 FT	Nov 17,2017 12:17:32 PM Location:PDI-1 Latitude:40.760997 , Longitude:-73.443779

PDI 1 58-60 FT	Nov 17,2017 12:20:02 PM Location:PDI-1 Latitude:40.760985 , Longitude:-73.443754

PDI1 61-63

Nov 17,2017 12:26:04 PM
Location:PDI-1 Latitude:40.761054 , Longitude:-73.443739

PDI 1 63-65 ft	Nov 17,2017 12:29:55 PM Location:PDI-1 Latitude:40.760998 , Longitude:-73.443741

PDI 1 65-68 ft

Nov 17,2017 12:40:11 PM
Location:PDI-1 Latitude:40.760961 , Longitude:-73.443746

PDI 1 68-70

Nov 17,2017 12:46:12 PM
Location:PDI-1 Latitude:40.761009 , Longitude:-73.44376

PDI 1 70-75

Nov 17,2017 12:49:17 PM
Location:PDI-1 Latitude:40.761026 , Longitude:-73.443731

PDI 1 75-80

Nov 17,2017 12:54:13 PM
Location:PDI-1 Latitude:40.76097 , Longitude:-73.443735

PDI 1 80-85 85 bottom of pic

PDI 1 clay approx 83.5

Soil Boring Log
Former Aluminum Louvre

Boring: PDI-2

Project Number	215958	Drilling method	Sonic,geoprobe
Date	11/15/2017	Total Depth	80
Drilling Company	Cascade Drilling, LLC		
Logged By	Alison Rielly,Eric Rosenzweig		

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
0				
1				
2				
3				
4				
5			dry, loose, Soft, BrownRecovery 1.5 ft	
6				
7				
8			moist, medium dense, Medium Stiff, Brown3 ft recovery for 5 to 10 ft interval	
9				
10			dry, loose, Soft, Light to medium brown	
11				
12				
13			dry, medium dense, Brown sand, black silty 'marble'	
14				
15			dry, loose, well sorted, Light brownRecovery of 3 ft from 10 to 15 interval	
16				
17			dry, medium dense, Medium Stiff, Brown	
18				
19			dry, dense, Stiff, Gray	
20			dry, loose, Light to medium brownRecovery 4 ft from 15 to 20 ft bgs	
21				
22				
23				
24				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
25			dry, medium dense, Medium Stiff, Brown to orange. brownRecovery 42 inches	
26				
27				
28				
29				
30			dry, loose, Soft, Gray fine to med sand, orange brown medium sand36 inch recovery	
31				
32				
33				
34				
35				
36				
37				
38				
39				
40			dry, loose, Soft, Orange brownRecovery 26 inches	
41				
42				
43				
44				
45			dry, loose, Soft, Light brown and reddish brownRecovery 36 inches	
46				
47				
48				
49				
50			dry, medium dense, Soft,Medium Stiff, Brown and orange brownRecovery 36 inches	
51				
52				
53				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
54					
55				No Recovery	
56					
57					
58					
59					
60				No Recovery	
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80				moist, dense, Stiff, Brown to gray clay3 inches of wet sandy clay, stiff brown clay to 78, gray clay and brown with gray 'marbling' to 80 ft **End of Boring**	
81					

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				
106				
107				
108				
109				
110				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
111				
112				
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137				
138				
139				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
140					
141					
142					
143					
144					
145					
146					
147					
148					
149					
150					

PDI 2 0-5 ft	Nov 15,2017 09:58:17 AM Location:PDI-2 Latitude:40.760919 , Longitude:-73.443687

PDI 2 5 -10 ft bgs

PDI 2 12-13 ft bgs

PDI 2 13 to 15 ft bgs

PDI 2 16 - 17 ft	Nov 15,2017 10:24:57 AM Location:PDI-2 Latitude:40.761001 , Longitude:-73.44367

PDI 2 17-19 ft bgs silty clay	

PDI 2 19-20 ft bgs	

PDI 2 20-25 ft bgs

PDI 2 25-30 bgs

PDI 2 30-35 ft bgs

PDI 2 35-40 ft bgs

PDI 2 40-45 ft bgs

PDI 2 set up

AQUIFER DRILLING
Nov 15,2017 01:06:05 PM
Location:PDI-2 Latitude:40.761047 , Longitude:-73.443792

PDI 2 45-50 ft bgs

PDI 2 60-65 ft bgs

PDI 2 65-70 ft bgs

PDI 2 70-75 ft bgs	

PDI 2 75-80 ft bgs	

PDI 2 brown and gray clay 78 ft bgs	

PDI 2 78-80 ft bags dark gray clay	

PDI 2 grout

Nov 17,2017 07:15:27 AM
Location:PDI-2 Latitude:40.76094 , Longitude:-73.443763

Soil Boring Log
Former Aluminum Louvre

Boring: PDI-3

Project Number	215958	Drilling method	Hand auger,DPT
Date	10/23/2017		
Drilling Company	Cascade Drilling, LLC		
Logged By	Colleen Meehan,Alison Rielly		

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
0				
1				
2				
3				
4				
5			BrownTop 6"concrete	
6				
7				
8				
9				
10	0		dry, loose, Soft, Light brown, medium brown.3.5 recovery. bottom 4" rusty colored sand, some plasticity and moist	
11				
12				
13				
14				
15	0		dry, medium dense, poorly sorted, Lt brown, mef brown, rusty4'recovery. med fine	
16				
17				
18			Clay, dry, very dense, Hard, well sorted, GrayClay begins 16, brittle	
19				
20	0		dry, loose, Brown and rusty brownSome gravel, 5' recover	
21			dry, medium dense, Dark gray4' recovery	
22				
23				
24				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
25	0		dry, loose, Soft, Lt brown, rust brown4' recovery	
30	0		dry, medium dense, Soft, moderately sorted, Lt and med brown, rust brown5' recovery	
35	0		dry, loose, Soft, poorly sorted, Top 6" dark brown moist clayer sand, lt brown, lter brown eith black streaks, lt brown rust streaks, lt brown5 ' recovery	
36	0.1			
40			dry, Soft, poorly sorted, Dark brown, lt brown, rusty brown5' recovery, 35-36' slightly moist	
45	0		dry, loose, Soft, poorly sorted, Dark brown, lt brown5' recovery, 42.5 2" black and metallic clay/sand	
50	0			

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
53				
54				
55	0		dry, loose, Soft, moderately sorted, Lt brown, rusty brown5' recovery. at 52' about 4"sandy clay	
56				
57				
58				
59				
60	0		dry, loose, Soft, moderately sorted, Brown, lt and rusty brown5' recovery	
61				
62				
63				
64			dry, loose, Soft, moderately sorted, Lt and mwd brown5' recovery	
65	0		dry, dense, Hard, well sorted, GrayBottom 4" 60-65 is clay	
66				
67				
68				
69				
70	0		moist, medium dense, Medium Stiff, poorly sorted, Brown, lt, rusty. balck, gray5' recovery	
71				
72				
73				
74			dry, medium dense, Soft, well sorted, BlackOrganic black silt, brittle	
75	0		dry, medium dense, Stiff, Black, brown, rustMxture clay , sand and silt	
76				
77				
78				
79				
80	0		moist to wet, loose, Soft, well sorted, Brown with outter black stain5' recovery. wetter first 1' but all moist to wet	

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
81			moist to wet, Soft, well sorted, BrownMed. coarse Sand.	
82				
83			wet (saturated), medium dense, Soft, moderately sorted, Grey, lt brown, pinkish streaksNot majority clay	
84			moist, dense, Stiff, moderately sorted, Gray with some lt/rusty brown streaksBrittly silty clay	
85	0		moist to wet, medium dense, Soft, poorly sorted, Brown	
86				
87				
88				
89				
90	0		wet (saturated), medium dense, Soft,Medium Stiff, well sorted, Brown, lt brownMed coarse sand. small sectiob gray clay	
91				
92				
93				
94				
95	0		moist to wet, medium dense, Soft,Medium Stiff, well sorted, BrownMed coarse to fine sand. small portions of clay on outter diameter	
96				
97				
98				
99				
100			moist to wet, medium dense, Soft,Medium Stiff, well sorted, Lt brtown, brown, graryStuck in casing, mostly sand, small clay portion about 6" **End of Boring**	
101				
102				
103				
104				
105				
106				
107				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
108				
109				
110				
111				
112				
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
137					
138					
139					
140					
141					
142					
143					
144					
145					
146					
147					
148					
149					
150					

pdi 3 0-5

Oct 23,2017 12:22:06 PM
Location:PDI-3 Latitude:40.7611 , Longitude:-73.443587

5-10	Oct 23,2017 12:40:37 PM Location:PDI-3 Latitude:40.761109 , Longitude:-73.443569
pdi 3 10'	Oct 23,2017 12:40:50 PM Location:PDI-3 Latitude:40.761112 , Longitude:-73.443568

10-15	
clay 16-18	

15-20

Oct 23,2017 12:50:03 PM
Location:PDI-3 Latitude:40.761118 , Longitude:-73.443576

clay at 16

Oct 23,2017 12:54:44 PM
Location:PDI-3 Latitude:40.761092 , Longitude:-73.443604

18-20	Oct 23,2017 12:56:41 PM Location:PDI-3 Latitude:40.76109 , Longitude:-73.443605

21'	Oct 23,2017 01:01:53 PM Location:PDI-3 Latitude:40.761083 , Longitude:-73.443601

21-25	Oct 23,2017 01:03:46 PM Location:PDI-3 Latitude:40.761114 , Longitude:-73.443588

25-30	Oct 23,2017 01:22:37 PM Location:PDI-3 Latitude:40.761116 , Longitude:-73.443596

30-35	Oct 23,2017 01:48:31 PM Location:PDI-3 Latitude:40.761118 , Longitude:-73.443528

35-40	Oct 23,2017 02:05:45 PM Location:PDI-3 Latitude:40.761136 , Longitude:-73.443587

40-45	Oct 23,2017 02:23:39 PM Location:PDI-3 Latitude:40.76113 , Longitude:-73.443605

42.5	Oct 23,2017 02:24:08 PM Location:PDI-3 Latitude:40.761129 , Longitude:-73.443584

45-50

Oct 23,2017 02:41:44 PM
Location:PDI-3 Latitude:40.761141 , Longitude:-73.443573

50-55	Oct 23,2017 03:16:34 PM Location:PDI-3 Latitude:40.761161 , Longitude:-73.44358

clay at 52'

Oct 23,2017 03:16:51 PM
Location:PDI-3 Latitude:40.761142 , Longitude:-73.443577

55-60	Oct 23,2017 03:42:08 PM Location:PDI-3 Latitude:40.76111 , Longitude:-73.443562

60-64

Oct 23,2017 04:23:08 PM
Location:PDI-3 Latitude:40.761127 , Longitude:-73.443537

65-67	Oct 24,2017 08:37:14 AM Location:PDI-3 Latitude:40.761139 , Longitude:-73.443405
67-68	Oct 24,2017 08:37:32 AM Location:PDI-3 Latitude:40.761139 , Longitude:-73.443408

68-70	Oct 24,2017 08:37:49 AM Location:PDI-3 Latitude:40.761136 , Longitude:-73.443447

70

Oct 24,2017 08:38:11 AM
Location:PDI-3 Latitude:40.761143 , Longitude:-73.443448

70-74	Oct 24,2017 09:38:40 AM Location:PDI-3 Latitude:40.761127 , Longitude:-73.443552

74-75

Oct 24,2017 09:41:35 AM
Location:PDI-3 Latitude:40.761127 , Longitude:-73.443624

75-80	Oct 24,2017 12:24:32 PM Location:PDI-3 Latitude:40.761146 , Longitude:-73.443597

80-81

Oct 24,2017 01:11:29 PM
Location:PDI-3 Latitude:40.761234 , Longitude:-73.443631

81-83.5	Oct 24,2017 01:12:10 PM Location:PDI-3 Latitude:40.761234 , Longitude:-73.443542

83.5-84.5	Oct 24,2017 01:12:39 PM Location:PDI-3 Latitude:40.761188 , Longitude:-73.443601

84.5-85	Oct 24,2017 01:13:30 PM Location:PDI-3 Latitude:40.761176 , Longitude:-73.443598

90-95	Oct 24,2017 03:35:26 PM Location:PDI-3 Latitude:40.761147 , Longitude:-73.443436

100	Oct 24,2017 05:00:41 PM Location:PDI-3 Latitude:40.761091 , Longitude:-73.443682

Soil Boring Log
Former Aluminum Louvre

Boring: PDI-4

Project Number	215958	Drilling method	Hand auger,DPT
Date	10/23/2017	Total Depth	60
Drilling Company	Cascade Drilling, LLC		
Logged By	Colleen Meehan,Alison Rielly		

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
0				
1				
2				
3				
4				
5		SP	dry, loose, Soft, moderately sorted, Light brown, dark brownSome gravel	
6				
7				
8				
9				
10	0	SP	Sand, dry, loose, Medium Stiff, well sorted, Light brownMedium fine. 7-8 dense. 9-10 some silt. 4' recovery	
11				
12				
13				
14				
15	0		dry, loose, Soft, well sorted, Light brown4' recovery med fine	
16		SM	moist, loose, Soft, Brown and dark gray	
17				
18				
19				
20	0		dry, loose, Soft,Medium Stiff, moderately sorted, Ligbt brownMed coarse, 4.5 recovery	
21			moist, Dark gray4.5 recovery	
22				
23			moist, dense, Lt to med brown	
23			medium dense, Lt gray	

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
24				
25	0		dry, loose, Soft, Lt brownStreaks of dark orange	
26				
27			moist, medium dense, Medium Stiff, Orangey brown	
28				
29				
30	0		moist, loose, Soft, Lt brown, drk brown/black streaks4' recovery	
31				
32			moist, medium dense, Stiff,Medium Stiff, Med to dark brownMore dense 31-32	
33				
34				
35	0		dry, loose, Soft, Ly brown some black and orange streaks4.5 recovery	
36				
37				
38				
39				
40	0		dry, loose, Soft, well sorted, Lt to med brown sand5' recovery	
41				
42				
43				
44				
45	0		dry, loose, Soft, Lt to med brown4.5 recovrry. very tight for drillers (took about an hour to get 5')	
46				
47				
48				
49				
50			loose, Soft, well sorted, Tan, light brown, dark brown30 inch recovery	
51				
52				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
53					
54					
55				dry, medium dense, Soft,Medium Stiff, Medium brown36 inch recovery, loose packed, 4 inch layer firm packed	
56					
57					
58		0.1			
59					
60				dry, medium dense, well sorted, Tan to medium brownRecovery 40 inches, PID 0.1 ppm at 58 **End of Boring**	
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				
101				
102				
103				
104				
105				
106				
107				
108				
109				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
110				
111				
112				
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				
136				
137				
138				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
139					
140					
141					
142					
143					
144					
145					
146					
147					
148					
149					
150					

PDI 4- 5'	Oct 23,2017 08:19:26 AM Location:PDI-4 Latitude:40.761042 , Longitude:-73.443516

PDI 4- 10'	Oct 23,2017 08:24:48 AM Location:PDI-4 Latitude:40.761039 , Longitude:-73.44349

PDI 4-15'	Oct 23,2017 08:31:38 AM Location:PDI-4 Latitude:40.76107 , Longitude:-73.443516

PDI4-20'	

Oct 23,2017 08:39:19 AM
Location:PDI-4 Latitude:40.761061 , Longitude:-73.443516

PDI4, 20'	Oct 23,2017 08:45:26 AM Location:PDI-4 Latitude:40.76105 , Longitude:-73.443473

pdi4- 24-25

Oct 23,2017 09:13:14 AM
Location:PDI-4 Latitude:40.761032 , Longitude:-73.443506

pdi4 23.5

Oct 23,2017 09:13:54 AM
Location:PDI-4 Latitude:40.761024 , Longitude:-73.443497

PDI 4 20-23

Oct 23,2017 09:14:41 AM
Location:PDI-4 Latitude:40.76106 , Longitude:-73.44351

PDI 4 25-27	

Oct 23,2017 09:23:16 AM
Location:PDI-4 Latitude:40.761082 , Longitude:-73.443536

PDI 4 27-30

Oct 23,2017 09:25:47 AM
Location:PDI-4 Latitude:40.761018 , Longitude:-73.443537

pdi4 30-32

Oct 23,2017 09:43:10 AM
Location:PDI-4 Latitude:40.761032 , Longitude:-73.44356

pdi4 32-35	Oct 23,2017 09:45:03 AM Location:PDI-4 Latitude:40.761002 , Longitude:-73.443511

pdi4 35-40

Oct 23,2017 10:18:13 AM
Location:PDI-4 Latitude:40.761062 , Longitude:-73.443511

pdi 4 40-45

Oct 23,2017 11:18:30 AM
Location:PDI-4 Latitude:40.761061 , Longitude:-73.443527

PDI 4 set up

AQUIFER DRILLING
SONIC
SONIC
www.aquiferdrilling.com
Nov 14,2017 08:52:06 AM
Location:PDI-4 Latitude:40.761072 , Longitude:-73.443516

PDI-4 setup 2	Nov 14,2017 09:56:11 AM Location:PDI-4 Latitude:40.760946 , Longitude:-73.443528

PDI 4 45-50 ft bgs	

PDI 4 50-55 ft bgs

PDI 4 55 to 60 ft bgs

Soil Boring Log
Former Aluminum Louvre

Boring: PDI-5

Project Number	215958	Drilling method	DPT
Date	10/25/2017		
Drilling Company	Cascade Drilling, LLC		

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
0				
1				
2				
3				
4				
5			dry, Approx 4" concrete, brown sand	
6				
7				
8				
9				
10	0		dry, medium dense, Soft,Medium Stiff, poorly sorted, Lt and dark brown, lt rust and rust brown5' recovery, sand, sparse gravel	
11				
12				
13				
14				
15	0		dry, loose, Soft, moderately sorted, Lt rust and rust brown3' recovery, sand compacted too much for 1" center push method	
16				
17				
18				
19				
20	0		dry, loose, Soft, moderately sorted, Lt rust, lt brown, sparae dark brown4' recovery	
21				
22				
23				
24				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
25	0		dry, loose, Soft, moderately sorted, Lt brown, sparae rust and dark brown4' recovery	
26				
27				
28			dry, loose, Soft, poorly sorted, Dark to lt brown5' recovery	
28			dry, dense, moderately sorted, Rusty brown with orange/pink streaks	
29				
30	0		dry, medium dense, Soft, moderately sorted, Lt brown with rust streaks	
31				
32				
33				
34			dry, loose, Soft, poorly sorted, Lt brown, dark brown, dark streaks5' recovery, about 4" fill (32.5)	
35	0		dry, loose, Soft, moderately sorted, Lt brown, some rust, some gray	
36				
37				
38				
39				
40	0		dry, loose, Soft, poorly sorted, Dark, lt, rust brown5 ft recovery	
41				
42				
43				
44				
45	0		dry, loose, Soft, poorly sorted, Dark, lt, rust brown5' recovery	
46				
47				
48				
49				
50	0		dry, medium dense, Medium Stiff,Soft, poorly sorted, Dark brown silty sand, lt brown, lt rusty brown sand5' recovery	
51				

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
52			dry, medium dense, Soft, moderately sorted, Dark ti lt brown5' recovery	
53				
54				
55	0		moist, medium dense, Soft,Medium Stiff, moderately sorted, Lt to med brown	
56				
57				
58				
59				
60	0		dry, medium dense, Soft, moderately sorted, Dark to lt brown5' recovery	
61				
62				
63				
64				
65	0		dry, medium dense, Soft, moderately sorted, Dark to lt brown5' recovery	
66				
67			moist to wet, medium dense, Soft, moderately sorted, Dark to med brown5' recovery	
68				
69				
70	0		moist, very dense, Stiff,Very Stiff, moderately sorted, Gray/dark brown with rust steaks, blackBlack silty clay os very brittle. 67.5-68.5 is gray clay	
71				
72				
73			moist to wet, medium dense, Soft, moderately sorted, Lt to med brownWettest around 72 ft down	
74			moist, medium dense, Soft,Medium Stiff, moderately sorted, Gray, dark gray	
75	0		moist, dense, Stiff,Soft, moderately sorted, Gray, rust in thin layersLayered, brittle	
76				
77				
78				
79				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
80		0		wet (saturated), medium dense, Soft,Medium Stiff, moderately sorted, Lt brown. gray, rustSmall layets of clay around 77.5	
80		0		wet (saturated), very loose, Soft, well sorted, Brown	
81				wet (saturated), loose, Soft, moderately sorted, Dark gray, brown	
82					
83					
84					
85				wet (saturated), loose, Soft, moderately sorted, Lt brown to brown5' recovery **End of Boring**	
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					
101					
102					
103					
104					
105					
106					

Depth (ft)	PID (PPMV)	USCS Code	Material Description	Sample ID
107				
108				
109				
110				
111				
112				
113				
114				
115				
116				
117				
118				
119				
120				
121				
122				
123				
124				
125				
126				
127				
128				
129				
130				
131				
132				
133				
134				
135				

Depth (ft)		PID (PPMV)	USCS Code	Material Description	Sample ID
136					
137					
138					
139					
140					
141					
142					
143					
144					
145					
146					
147					
148					
149					
150					

5-10	Oct 25,2017 11:00:46 AM Location:PDI-5 Latitude:40.761016 , Longitude:-73.443204

13-15	Oct 25,2017 11:02:37 AM Location:PDI-5 Latitude:40.761047 , Longitude:-73.443215

15-20	Oct 25,2017 11:10:00 AM Location:PDI-5 Latitude:40.760984 , Longitude:-73.443201

20-25	Oct 25,2017 11:18:00 AM Location:PDI-5 Latitude:40.761028 , Longitude:-73.443207

25-28	Oct 25,2017 11:30:12 AM Location:PDI-5 Latitude:40.76102 , Longitude:-73.443322

28-28.5	Oct 25,2017 11:31:34 AM Location:PDI-5 Latitude:40.760997 , Longitude:-73.443263

28.5-30	Oct 25,2017 11:32:39 AM Location:PDI-5 Latitude:40.761009 , Longitude:-73.443267

Oct 25,2017 11:41:09 AM
Location:PDI-5 Latitude:40.761004 , Longitude:-73.443313

34-35	

Oct 25,2017 11:43:03 AM
Location:PDI-5 Latitude:40.760964 , Longitude:-73.443293

35-40	Oct 25,2017 11:53:55 AM Location:PDI-5 Latitude:40.761002 , Longitude:-73.443283

40-45	Oct 25,2017 12:21:35 PM Location:PDI-5 Latitude:40.761038 , Longitude:-73.443248

45-50	

Oct 25,2017 12:45:29 PM
Location:PDI-5 Latitude:40.761027 , Longitude:-73.443231

50-52.5	Oct 25,2017 01:38:25 PM Location:PDI-5 Latitude:40.76106 , Longitude:-73.443203

52.5 to 55	Oct 25,2017 01:39:42 PM Location:PDI-5 Latitude:40.761047 , Longitude:-73.443216

55-60	Oct 25,2017 01:57:59 PM Location:PDI-5 Latitude:40.76103 , Longitude:-73.44321

60-65	Oct 25,2017 02:23:12 PM Location:PDI-5 Latitude:40.761048 , Longitude:-73.443273

65-67.5	Oct 25,2017 02:56:35 PM Location:PDI-5 Latitude:40.761018 , Longitude:-73.443267

67.5-70	Oct 25,2017 02:59:25 PM Location:PDI-5 Latitude:40.761019 , Longitude:-73.443249

67.5-68.5	Oct 25,2017 03:00:06 PM Location:PDI-5 Latitude:40.760999 , Longitude:-73.443237

68.5-70	Oct 25,2017 03:00:21 PM Location:PDI-5 Latitude:40.760996 , Longitude:-73.443234

74-75	Oct 25,2017 03:31:42 PM Location:PDI-5 Latitude:40.761012 , Longitude:-73.443219

70-73	Oct 25,2017 04:00:47 PM Location:PDI-5 Latitude:40.761085 , Longitude:-73.443152

74

Oct 25,2017 04:02:29 PM
Location:PDI-5 Latitude:40.76109 , Longitude:-73.44318

74-75

Oct 25,2017 04:04:00 PM
Location:PDI-5 Latitude:40.761081 , Longitude:-73.443187

75-80	Oct 25,2017 04:24:54 PM Location:PDI-5 Latitude:40.761055 , Longitude:-73.443211

80-80.5	Oct 26,2017 10:42:28 AM Location:PDI-5 Latitude:40.761031 , Longitude:-73.443191

80.5-81	Oct 26,2017 10:44:53 AM Location:PDI-5 Latitude:40.761038 , Longitude:-73.443185

81-85	Oct 26,2017 10:46:15 AM Location:PDI-5 Latitude:40.761041 , Longitude:-73.443176

80.5-81	Oct 26,2017 10:46:48 AM Location:PDI-5 Latitude:40.76103 , Longitude:-73.443175

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: POI-6

Page 1 of 1

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/13/18 Drilling Co. Cascade

Total Depth 20' Method Used Geoprobe

Inspector FR Organic Vapor Instruments Used MiniRae 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0						6" asphalt/fill to Brown fine sand w/mica to Reddish-brown fine sand with red banding		
			0-5	60/48	Ø			
5						Blackish brown fine sand to Brownish-white fine sand to reddish brown fine sand to brownish-white fine sand		
			5-10	60/50	0.2			
10						brown fine sand to whit fine sand to red fine sand bottom 1" Grey stiff clay (14-15')		
			10-15	60/44	0.5			
15						Grey stiff clay to Black Clay (16-17') to Brown Clay. Bottom 5" Reddish brown fine sand		
			15-20	60/38	Ø			
20								
			20-25	60/				
25								
			25-30	60/				
30								

NY-1

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: POI-7

Page 1 of 1

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/13/18 Drilling Co. Cascade

Total Depth 20' Method Used Geoprobe

Inspector ER Organic Vapor Instruments Used MiniRae 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						12" Asphalt/fill to Brown fine sand. At 26" large rock to red fine sand to 2" crushed rock @ 4.5' to Brown fine sand		
			0-5	60/40	2.7 middle			
5						Whitish brown fine sand to light brown fine sand		
			5-10	60/48	1.3			
10						light brown fine sand to reddish brown wet fine sand to brown stiff clay (Bottom 6')		
			10-15	60/36	7			
15						wet brown clay to black clay to brown clay to whitish brown fine sand @ 18.5' (20ppm in clay)		
			15-20	60/40	20			
20								
			20-25	60/				
25								
			25-30	60/				
30								

NY-1

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: POI- 8

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/13/18 Drilling Co. Cascade

Total Depth 20' Method Used Geoprobe

Inspector FR Organic Vapor Instruments Used MiniRae 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
5			0-5	60/48	6	7" Asphalt/fill to light brown fine sand to reddish brown fine sand to black banded 2" layer @ 46-48"		
10			5-10	60/48	1.7	Brown fine sand to 2" black sand 6" to Brownish fine sand to light brown w/ red banding		
15			10-15	60/48	0.7	Brown fine sand to 2" black layer @ 11' to light brown fine sand to wet red fine sand		
20			15-20	60/42	4	red sand to Grey stiff clay @ 16' to (22" thick) to white sand		
25			20-25	60/				
30			25-30	60/				

NY-1

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: POI-9

Page 1 of 1

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/13/18 Drilling Co. Cascade

Total Depth 20' Method Used Geoprobe

Inspector FR Organic Vapor Instruments Used MiniRae 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						12" Concrete to Brown fine sand to broken up Green rock @ 4' to Brown fine sand		
			0-5	60/43	12.5 60Am			
5						light brown fine sand w/ red bandig to brown fine sand		
			5-10	60/45	3			
10						light brown fine sand to reddish-brown fine sand to 4' Grey clay @ 12' to Brown fine sand w/ red + black bands to Brown fine sand		
			10-15	60/48	1.5			
15						Brownish-black fine sand to wet Reddish-Brown fine sand to Grey clay @ 17' wet @ 16'		
			15-20	60/48	1			
20								
			20-25	60				
25								
			25-30	60				
30								

NY-1

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: POI-10

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/18/2018 Drilling Co. Cascade

Total Depth 70' Method Used Roto-Sonic

Inspector FR + AE Organic Vapor Instruments Used MiniRae 3000 Water Table Depth 67'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						Hand cleared to 5' bgs		
			0-5	60"				
5						5'-6.5' L-Brown, moist, fm Sand with a few layers of fine Silty Sand 1" thick with mica, trace Clay		
			5-10	60" / 17"	0	6.5-10 No Recovery		
10						10'-12' Grey, moist, fm Sand little Silt with Mica		
						12'-14' L-Brown, moist, Clayey Sand		
15					0	14'-15.66' L-Brown, moist, fm Sand trace Clay		
						15.66-20 [redacted] The Soil Sample slid down inside of the Sample bag and became Shortened/compacted		
			10-20 [redacted]	120" / 56"	0			
20						20-22 L-Brown, moist, M Sand trace Clay		
			[redacted]			22'-26' Orange-LBrown, moist, fm Sand trace Silt		
25						26-28' L-Grey to Reddish Brown, Dry fm Silty Sand		
			10-30 [redacted]	120" / 120"	106	28-28.5 Orange-LBrown, moist, fm Sand with clay laminations		
30						28.5-30 tan, moist, fm Sand trace Silt		

NY-1

* Note Some Sand is Sometimes lost in the process of bagging the Sample

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: POT-10

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-32' Orange-LBrown, moist, fm Sand trace Silt 32'-33.5' Orange-LBrown and Grey, moist, Clayey fm Sand 33.5-34.5 L-Grey, moist, fm Sand		
						34.5-35.5 D-Grey, moist, fm Sand little Clay 35.5-36.5 L-Brown, Dry, fm Sand trace Silt 36.5-38.5 D-Grey to L-Brown, moist then wet, Clayey fm Sand 38.5-40 No Recovery		
40			30-40	120" / 98"	0.6			
						40'-43' L-Brown, wet, f Sand trace Silt 43'-47' L-Brown, wet, fm Sand 47-47.5 Orange-LBrown, wet, Clayey Sand 47.5-50 No Recovery		
45								
			40-50	120" / 90"	2.7			
50						50'-55' L-Brown, moist, fm Sand		
			50-55	60 / 60	0			
55						55'-56' Olive Brown, wet, fm [redacted] Silty Sand 56'-57' mottled Grey+Brown, Silty Clay 57'-58' Mottled Olive Brown + Orange Brown, moist Clayey fm Sand 58'-59' Grey, moist, fm Sand trace Silt 59'-60' Grey + D Grey, Varved, Dry, Silty f Sand		
			55-60	60 / 60	0.6			
60						60'-66' L-Brown, moist, fm Sand 66'-67' Orange-LBrown, wet, fm Sand trace Silt 67'-70' No Recovery		
65								
			60-70	120 / 84			2.5'	Ground water Sampler pushed to 74' Sampler
70								

NY-2

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: POI-11

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/19/2018 Drilling Co. Cascade

Total Depth 70 ft bgs Method Used Rotc-Sonic

Inspector FR Organic Vapor Instruments Used MiniRae 3000 Water Table Depth Unknown

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-4' Asphalt 4'-3' Fill - Brown, Moist, Fine Sand and fm Gravel (Brick + concrete pieces) 3'-5' Orange-LBrown, moist, Silty fm Sand with mica		Hand Cleared
5			0-5			5'-6' Brown, Moist, fm Sand 6'-8' Brown, Grey, Black, moist, Varved Silty fm Sand 8'-10' No Recovery		
10			5-10	60 / 36	1.3			
						10-16.5' L-Brown, Brown, tan, Orange-Brown, Moist, Mottled and Varved Silty fm Sand		
15								
						16.5'-20' No Recovery		
20			15-20	120 / 78	2.06			
						20'-21' tan, moist, fm Sand 21'-24' Orange-LBrown, moist, fm Sand trace Silt 24'-25.5' Brown, moist, fm Sand, trace Silt		
25								
						25.5'-27' L-Brown and tan, Dry, Varved, Silty f Sand 27'-28' L-Grey, tan, Black, Dry, Varved, Silty f Sand		
30			25-30	120 / 102	22.3 @22'			
						28'-28.5' Orange-tan, Black, moist, varved, Alternating fm Sand and Clay layers. 28.5-30 No Recovery		

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: POT-11

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-32' L-Grey and Black, moist, mottled, fm Sand, Little Silt		
						32'-35.5' L-Brown, Orange-LBrown, Black, L-Grey, tan, moist, Varved fm Sand trace Silt, with Clay Laminations at 33' and 33.5'		
						35.5'-36.5' L-Brown, Dry, Varved f Sand		
						36.5'-37.5' Orange-LBrown, Black, moist Varved, Silty f Sand		
40			30-40	120/90	2.7	37.5'-40' No Recovery ↓		
						40'-43' L-Brown, moist, f Sand		
						43'-44' D-Brown, moist, f Sand trace Silt		
						44'-46.5' tan, Dry, Silty f Sand		
45						46.5'-47' tan, L-Brown, Brick Red, wet, mottled, fm Sand trace Silt		
						47'-50' NO Recovery ↓		
50			40-50	120/84	12.8			
						50'-52' L-Brown, Moist, fm Sand		
						52'-52.5' Orange-LBrown, L-Grey, moist, mottled, Clayey fm Sand with layers of Clay		
55						52.5'-55' L-Grey, moist, Varved, f Sand with mica, with a few Clay layers throughout		
						55'-57.5' L-Grey, moist, f Sand trace Silt		
						57.5'-58.5' L-Brown, wet, Varved fm Sand		
60			50-60	120/102	0.3	58.5-60 No Recovery ↓		
						60'-67' L-Brown, moist, fm Sand		
						67'-68' tan, L-Brown, Dry, Silty Sand		
						68'-70' No Recovery		
65								Groundwater Sample 72.5-75ft BGS
			60-70	120				

NY-2

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: POI-12

Log of Boring

Project FAL Location Old Bethpage NY Job. No

Date Drilled 6/20/2018 Drilling Co. Cascade

Total Depth Soil Sampled to 65', advanced easy to 70' Method Used Roto-Sonic

Inspector FR + AE Organic Vapor Instruments Used MiniRae 3000 Water Table Depth ~60

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-3' Asphalt 3'-1' Brown, moist, Fill, fm Sand Some fm Gravel (Brick and concrete pieces)		
						1'-3' L-Brown, moist, f Sand trace fine Gravel, Fill 3'-3.5' Brown, moist, Silty f Sand trace Clay with mica		Hand cleared 0-5'
			0-5	60 /		3.5'-4' Orange-L Brown, moist Clayey fm Sand 4'-5' tan, moist, Silty fm Sand with mica		
5						5'-5.5' Brown, moist, Silty f Sand with Mica 5.5'-8.5' tan, moist, Silty fm Sand with mica		
			5-10	60 / 60	1.5	8.5'-10' Orange-L Brown, moist, Varved fm Sand with a few Silty Clay layers		
10						10-11' Same as above 11'-13' Grey and D-Grey, moist, fm Sand trace Silt		
			10-15	60 / 48	4.8	13-13.5 Brown, Tan, Orange-Brown, Black, moist, Varved, Clayey fm Sand with one ½" thick clay layer 13.5-14' Orange-Brown, moist, Silty fm Sand 14'-15' No Recovery		
15						15-15.5' L-Brown, Black, Orange-Brown, moist, varved Silty fm Sand 15.5'-19' L-Brown to L-Grey, moist, fm Sand		
			15-20	60 / 56	5.2	19'-20' L-Grey, Orange-L Brown, moist, varved clay alternating with Sand layers		
20						20-21' Orange-L Brown, moist, fm Sand trace Silt with mica		20-21' The Driller Spilled this portion of the Sample on the Ground, it melted the bag
			20-25	60 / 48	6	21'-22.5' D-Grey to Grey, moist, Silty f Sand 22.5'-24' Orange-L Brown, moist, fm Sand trace Silt with mica 24-25 No Recovery		
25						25-26 Orange-Brown, Brown, L-Grey, moist Varved, Silty fm Sand with a few clay layers from 25.5'-26'		
			25-30	60 / 66	0.9	26-28.5' L-Brown, Black, moist, mottled, fm Sand trace Silt		
30						28.5-30 tan, Dry, Silt and f Sand 30-30.5 Orange, moist, f Sand trace Silt		

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: POT-12

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
						30'-31' L-Brown, moist, fm Sand 31'-32.5' L-Brown, Orange-L Brown, moist, mottled f Sand little Silty Clay		
35			30-35	60/60	0.3	32.5-33.5 L-Brown, Orange-L Brown, Black, wet, varved, fm Sand, with a ¼" thick clay layer @ 33.5-35 L-Brown, Orange, Black, Dry, varved fm Sand trace Silt	33.5' (Gray)	
40			35-40	60/60	0.6	35'-37' L-Grayish-Brown, moist, fm Sand 37'-39' L-Brown, moist, f Sand trace Silt 39'-40' L-Brown, wet, f Sand trace Silt		
45			40-45	60/60	1.6	40'-40.5' Grey, moist, f Sand 40.5'-41' D-Grey, Orange-Brown, moist, mottled fm Sand little Silt 41'-43.5' L-Brown, moist, fm Sand 43.5'-44.75' L-Brown, Dry, Silty f Sand 44.75'-45' L-Brown, moist, f Sand		
50			45-50	60/54	0	45'-47' Orange-L Brown, Wet, fm Sand trace Silt 47'-49.5' Brown, Grey, Orange-L Brown, wet, mottled fm Sand trace Silt 49.5'-50' No Recovery ↓		
55			50-55	60/58	0	50'-51.5' Brown, Orange-L Brown, L-Grey, wet, mottled, f Sand little Silt with L-Grey clay laminations in 2 locations 50.25' and 51' 51.5-53 Orange, Grey, Black, wet, varved, f Sand and clay with mica 53-55 L-Brown, Orange L Brown, wet, mottled f Sand trace Silt		
60			55-60	60/60	0.2	55-55.5 L-Brown, moist f Sand with mica 55.5-59 L-Brown, moist, fm Sand with mica 59-60 Orange-L Brown, moist, fm Sand trace Silt		
65			60-65	60/60	0.2	60-64.5 L-Brown, wet, fm Sand 64.5-65 L-Grey, Tan, Grey, wet, mottled and varved, fm Sand with several clay laminations in the varved section, with mica		65' End soil sampling 70' EOB GW Sampled 71.5-74

NY-2

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-13
Page 1 of 2

Log of Boring

Project FAL Location Old Bethpage, NY Job. No
Date Drilled 6/21/2018 Drilling Co. Cascade
Total Depth 70ft bgs Method Used Roto-Sonic
Inspector AE + FR Organic Vapor Instruments Used MiniRAE 3000 Water Table Depth ~70

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-0.33' Asphalt 0.33'-5' Hand cleared		
			0-5					
5						5'-7.1' L-Brown, Orange-LBrown, Brown, moist, Mottled, fm Sand trace Silt, with mica 7.1-10' No Recovery		
			5-10	60/26	0.2			
10						10-11.5' Brown, L-Brown, wet, Varved, fm Sand trace Silt, with mica 11.5'-12.5' Orange and L-Brown, wet, fm Sand 12.5'-13.5' tan, Dry, Silty f Sand 13.5'-15' Orange-Brown, moist, fm Sand trace Silt 15-16' Orange-Brown, Moist, fm Sand little clay 16-20' No Recovery		
15								
			10-20	120/74	8			
20						20'-21.5' L-Brown, wet, fm Sand trace Silt 21.5'-22' L-Brown, Gray, Orange, Black, moist, Varved, Clayey fm Sand with a 3" Grey, Clay layer at 22' 22'-23' L-Brown, Orange-LBrown, L-Gray moist, fm Sand 23'-23.25' L-Brown, Orange-LBrown, L-Gray, moist, Varved, Clayey fm Sand with Grey Clay laminations 23.25-23.75 L-Brown, Orange, Black, moist, fm Sand 23.75-25 L-Grey, L-Brown, Orange-LBrown, moist, Varved, Clayey fm Sand with three 1/4" Grey Clay layers 25-27.5' L-Brown, moist, fm Sand trace Silt 27.5'-30' No Recovery		
25								
			20-30	120/93	2			
30								

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-13

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-32' L-Brown, moist, fm Sand trace Silt 32'-33' L-Brown, Black, Brown, moist, mottled fm Sand trace Silt 33'-34.5' L-Brown, moist, fm Sand trace Silt, with mica 34.5'-36' L-Grey, Black, Orange, tan, moist, mottled, f Sand trace Silt, with mica 36'-36.2' Black, moist, Silt with mica 36.2'-40' NO Recovery		
40			30'-40'	120/75	0.2			
						40'-42.5' Orange-L Brown, moist, fm Sand 42.5'-43' Brown, moist, fm Sand 43'-43.5' tan, Dry, Silty f Sand 43.5'-44' Orange-L Brown to Brown, wet, fm Sand trace Silt		Strong Odor 20.7 ppm
45						44'-46' tan, Dry, Silty f Sand 46'-46.25' Brown, moist, fm Sand 46.25'-47.5' Tan, Orange-tan, L-Grey, Dry, Silty f Sand, with mica 47.5-47.75 Brown, wet, fm Sand, little Silt 47.75-50 NO Recovery		
50			40'-50'	120/93	20.7			
						50'-52' Orange-L Brown, moist Clayey fm Sand 52'-52.5' L-Grey, Orange, moist, mottled, Clay, with mica 52.5'-54' Orange-L Brown, L-Grey, Black, moist, Silty f Sand with trace Clay from 52.5-53.25 54'-54.5' L-Grey, Black, moist, varved, Silty f Sand 54.5'-54.75 Orange-Brown, Dry, fm Sand 54.75'-55.7' L-Grey, Grey, moist, varved, Silty f Sand 55.7'-60' NO Recovery		
55								
60			50-60	120/68	1.2			
						60'-61.5' L-Brown, wet, fm Sand 61.5'-62.5' L-Brown, Orange-L Brown, L-Grey, Black, wet, varved, Clayey fm Sand, with two Grey Clay layers 1" and ¼" thick at 61.5 and 62' 62.5-66.5 Black, moist, varved, lignight 66.5-70 NO Recovery		
65								
				120/78	0.8			GW Sample 72.5'-75'

NY-2

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-14
Page 1 of 2

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/22/2018 Drilling Co. Cascade

Total Depth Method Used Roto-Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini RAE 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0.4" Asphalt		
5			0-5'	60/		4"-4' L-Brown, Orange-L Brown, fm Sand little Silty Clay (moist) 4'-5' L-Brown, moist, fm Sand		0-5' Hand cleared
						5'-7' L-Brown, moist, fm Sand trace Silt 7'-7.66' L-Brown, Black, Orange-Brown, moist Varved, f Sand little Silt 7.66'-10' No Recovery ↓		
10			5'-10'	60/32	0.6			
						10'-11.5' Grey, Black, L-Brown, Orange-Brown, moist, fm Sand little Silt, w. th 3/4" Grey, moist, mottled Sandy Clay at 11.5' 11.5'-13' L-Brown, moist, fm Sand 13'-13.33' tan, Dry, Silty f Sand 13.33-13.75' Orange-Brown, moist, fm Sand little Silty Clay 13.75'-14.75' tan, Dry, Silty f Sand 14.75'-17.66' L-Brown and Orange-Brown, moist fm Sand trace Silt 17.66'-20' No Recovery ↓		
20			10'-20'	120/92	4.0			
						20'-21.25' Orange-Brown, L-Grey, moist, Mottled, Clayey fm Sand with 3"-4" Grey, moist, Clay lages at 21'-21.25' 21.25'-22.5' L-Brown, Black, Orange-L Brown, moist, varved, fm Sand 22.5'-23.25' Orange-L Brown, Black, moist, varved, fm Sand little Clay 23.25'-26' L-Grey, Orange, L-Brown, Black, moist fm Sand trace Silt 26'-27' L-Grey, Dry, Silty f Sand 27'-27.66' Orange-L Brown, Black, wet, Varved, fm Sand little Clayey Silt 27.66'-30' No Recovery ↓		
25								
30			20-30	120/92	3.0			

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-14

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-30.5' L-Grey, moist, fn Sand 30.5'-31' Black, moist, fn Sand 31'-34' L-Brown, Black, Orange-LBrown, moist, Alternating layers of 2"-3" Clayey fn Sand, and 4"-6" of Silty fn Sand 34'-35.6' tan and L-Brown, moist, mottled fn Sand 35.5'-36' L-Grey, Dry, fn Sand 36'-37' Brown wet, mottled, f Sand little Clay 37'-40' No Recovery		
40			30-40'	120/84	9.5			
45						40'-42' L-Brown, moist, fn Sand trace angular, Black, fn Gravel 42'-43' Orange-LBrown, fn Sand 43'-44' Black, Brown, Orange-Brown, moist mottled, fn Sand trace Silt 44'-44.5' L-Brown, moist, fn Sand little Silt 44.5'-46.5' L-Brown, tan, Dry, Silty f Sand 46.5'-50' No Recovery		
50			40-50	120/78	10.3			
55						50-52.5' L-Brown, moist, fn Sand 52.5'-53.5' Orange-LBrown, moist, Silty fn Sand 53.5'-54.5' L-Brown, Orange-LBrown, moist, mottled, Clayey fn Sand 54.5-55.5' Grey, L-Grey, Orange, moist, mottled, Clay 55.5'-55.75' Orange-Brown, Moist, Silty f Sand 55.75'-56.75' L-Brown, moist, f Sand trace Silt 56.75'-60 No Recovery		
60			50-60	120/82	0			
65						60'-61' L-Brown, Orange-LBrown, wet, mottled, Clayey f Sand 61'-61.5' L-Grey, Black, Orange, moist, Varved Clay 61.5'-65.75' Black, moist, Lignite 65.75'-66.25' Brown, Black, L-Brown, Orange, moist, f Sand some Clayey Silt, varved 66.25'-67.75' Black, moist, Lignite 67.75'-70' No Recovery		
			60-70	120/93	0			Groundwater Sampled at 72.5'-75'

NY-2

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-15

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/25/2018 Drilling Co. Cascade

Total Depth Method Used Roto Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini RAE 3000 Water Table Depth 65.5'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-4" Asphalt		
			0-5'	60		4"-1.5' L-Brown, moist, Silty fn Sand trace fn c Gravel 1.5'-5' L-Brown, moist, Silty fn Sand		0-5' Hand Cleared
5						5'-6.5' L-Brown, moist, f Sand little Silt 6.5'-8' Orange-L Brown, moist, f Sand, w. Mica 8'-10' No Recovery		
			5'-10'	60/34	0.7			
10						10'-12.5' Brown, Grey, Black, moist, mottled, Silty fn Sand, w. Mica 12.5'-13.5' tan, Brown, moist, mottled, fn Sand 13.5'-15' L-Brown, moist, fn Sand trace Silt 15'-16' tan, Dry, Silty f Sand 16'-17' L-Brown, Dry, f Sand 17'-18' Brown, Black, L-Brown, Orange, moist, fn Sand trace Silt 18'-20' No Recovery		
15								
			10'-20'	120/96	24 ppm at 12'			
20						20-23' L-Brown, moist, f Sand 23'-24.5' Orange-L Brown, moist, fn Sand little Clay 24.5'-25.5' Brown, Wet, mc Sand trace Silt 25.5'-26.5' L-Grey, Black, Orange, L-Brown, moist, Varved, fn Sand Some Silty Clay, w. a 2" Clay layer at 25.5' and Several clay laminations in the Varve layers 26.5'-28' Orange, L-Brown, Black, moist, Silty f Sand, w. Mica 28'-30' No Recovery		
25								
			20'-30'	120/96	0.6			
30								

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-15

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-32.75' Grey, moist, fm Sand 32.75'-33' Orange, moist, Clayey fm Sand 33-33.5' Brown, moist, Silty fm Sand 33.5-34' L-Brown, moist, fm Sand 34'-36' L-Brown, tan, Black, Orange-LBrown, moist, mottled, f Sand 36'-40' No Recovery		
40			30-40	120/74	7.6			
45						40'-41.5' L-Brown, Orange-LBrown, moist, mottled, fm Sand trace Clay 41.5'-42' Black, Grey, moist, mottled, Silty f Sand 42-42.5 Black, Orange-LBrown, L-Brown, mottled, moist, Clayey fm Sand 42.5-45' Black, Orange-LBrown, tan, L-Brown, moist, fm Sand 4"-1' Layers 45'-48' tan, Dry, Silty f Sand 48'-50' No Recovery		
50			40-50	120/98	0.7			
55						50'-52.5' L-Brown, wet, fm Sand little Silty Clay 52.5'-53.5' L-Grey, Orange, moist, varved, Silty Clay 53.5-56' L-Brown, Orange-LBrown, Grey, moist, varved, f Sand little Silt, with Several f Sand Some Silty Clay layers 2"-4" thick 56'-60' No Recovery		
60			50-60	120/60	0.7			
65						60-61 L-Brown, L-Grey, Orange-LBrown, wet, mottled, Clay 61'-63' L-Brown, Grey, Orange-LBrown, wet, mottled, f Sand and Clay 63'-64' Brown, moist, fm Sand trace Silt 64'-65.5' Orange-LBrown, moist fm Sand trace Silt 65.5'-66.5' Brown, wet, f Sand some Silty Clay 66.5'-67.25 Black wet, Lignite 67.25'-70' No Recovery		Groundwater Sample 72.5-75
			60-70	120/88	4.5			

NY-2

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: SDI-16

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/26/2018 Drilling Co. Cascade

Total Depth 70 Method Used Roto-Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini RAE 3000 Water Table Depth ≈60

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
5			0-5	60 / AE	AE	0-0.5' Concrete 0.5'-1' L-Brown, moist, f Sand trace f-m Gravel 1'-4' Brown, moist, Silty f-m Sand trace f Gravel 4'-5' L-Brown, moist, f-m Sand		0-5' Hand Cleared
10			5-10	60 / 30	0.6	5'-7' L-Brown, Brown, L-Grey, moist, mottled, f Sand some Silty Clay, with a ½" L-Grey, moist, clay layer at 5.25' 7'-7.5' Orange-L Brown, L-Grey, Black, moist, varied, Silty f Sand with mica 7.5'-10' No Recovery		
15						10'-11.25' Brown, L-Brown, Orange-L Brown, moist, mottled, f Sand some Clayey Silt 11.25'-11.75' Orange-L Brown, L-Brown, Dk Grey, moist, varied, Clayey f Sand, with mica 11.75'-13' tan, Orange-L Brown, moist, f Sand, with mica 13'-13.5' Black, Orange-L Brown, tan, moist, varied, f Sand little Clayey Silt, with mica 13.5'-15.5' L-Brown, L-Orange-Brown, moist, varied f-m Sand 15.5'-16.75' tan, Dry Silty f Sand 16.75'-17.5' L-Brown, moist, f-m Sand		
20			10-20	120 / 96	6.0	17.5'-18' Orange-L Brown, moist, f-m Sand little Clayey Silt 18'-20' No Recovery		
25						20'-22.75' L-Brown, wet, f-m Sand 22.75'-24.66' Brown, wet, Silty f-m Sand 24.66'-26.5' Orange-Brown, moist, Silty f-m Sand 26.5'-27.5' L-Brown, wet, f Sand 27.5'-28.33' L-Brown, Orange-L Brown, wet f Sand little Clayey Silt 28.33'-30' No Recovery		
30			20-30	120 / 100	5.1			

NY-1

CDM

environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-16

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-32' Washed out of Sample bag into the mud pan when the Sample bag filled with water. It looked like Sandy material 32'-33' Brown, wet, fm Sand 33'-33.66' Brown, wet, fm Sand trace f Gravel (Blacksand Rocks) 33.66-34.66' Grey, wet, fm Sand 34.66'-35.33' Orange-L-Brown, moist, Clayey fm Sand 35.33'-36.25' Black, Brown, moist, Varved Silty f Sand 36.25'-37 Orange-L-Brown, L-Grey, moist, f Sand Little Clay and Silt 37-38.1' tan, moist, fm Sand 38.1-40 No Recovery		
40			30-40	120/98	2.2			
						40'-41' L-Brown, wet, fm Sand 41'-42.5' L-Brown, L-Grey, moist, mottled, Clayey-fm Sand with L-Grey Clay 42.5'-43.5' L-Brown, moist, fm Sand 43.5'-44.33' tan, Dry, Silty f Sand 44.33'-44.75' Orange, moist, f Sand little Clayey Silt 44.75'-45.25' Black, moist, f-m Sand trace Silt 45.25'-46.5' L-Brown, Dry, fm Sand 46.5'-47.25' tan, Dry, Silty Sand 47.25'-48.25' Orange-L-Brown, moist, fm Sand 48.25'-50' No Recovery		
45								
50			40-50	120/99	at 43' 280 ppm			
						50'-53' L-Brown, wet, fm Sand 53'-54' L-Brown, wet, fm Sand trace fine Gravel 54'-55' Orange-Brown, wet, fm Sand little Silt 55'-55.25' Orange-Brown, wet, Clayey fm Sand 55.25-56' L-Grey, Orange, moist, Clay 56'-57.5' tan, Dry, Silty f Sand 57.5'-60 No Recovery		
55								
60			50-60	120/90	1.5			
						60'-63.25' Brown, wet, fm Sand 63.25'-63.5' L-Brown, wet, Clayey fm Sand 63.5'-65.75' Grey, Black, Orange, L-Brown, wet, Varved, Silty Clay with trace f Sand layers 65.75'-66.25' Black, moist, Lignite 66.25'-67' Black, Orange, L-Grey, L-Brown, wet Varved, Clay layers, with Clayey f Sand layers 67'-68' L-Brown, wet, f Sand 68'-70' No Recovery		
65								
			60-70	120/96	0.3			Groundwater Sample 72.5'-75'

NY-2

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-17

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/27/2018 Drilling Co. Cascade

Total Depth 30 Method Used Roto-Sonic

Inspector AE+FR Organic Vapor Instruments Used Mini-RAE 3000 Water Table Depth ≈ 60.5

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-0.5' Asphalt 0.5'-1.5' L-Brown, moist, Silty f Sand some f Gravel 1.5'-5' L-Brown, moist, fn Sand		Hand Clear 0-5'
5			0-5					
						5'-7.25' L-Brown, moist, Silty fn Sand 7.25'-10' No Recovery		
				60/27				
10			5-10		1.5			
						10'-10.5' L-Brown, L-Grey, moist, varved, fn Sand some Silty Clay and layers of Clay 10.5'-11' L-Grey, moist, clay 11'-12' Brown, moist, fn Sand little Silty Clay 12'-15' Orange-L Brown, Dry, fn Sand 15'-20' No Recovery		
15								
				120/60				
20			10-20		9.3			
						20'-22.5' L-Brown, Grey, moist, varved, fn Sand with mica 22.5'-23 L-Grey, Grey, moist, varved, Silty f Sand 23'-24' L-Brown, moist, f Sand 24'-25.5' Orange, Black, moist, varved, Silty f Sand 25.5'-26.25' Brown, Orange-Brown, moist, mottled, Clayey f Sand 26.25'-26.75' L-Brown, moist, Silty f Sand 26.75'-30' No Recovery		
25								
				120/81				
30			20-30		6.8			

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-17

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-31.5' L-Brown, wet, fm Sand little Silt 31.5'-33.5' L-Brown, wet, fm Sand, with mica 33.5-34' Brown, wet, fm Sand 34-34.5 Orange-L Brown, wet, fm Sand little Silty Clay 34.5'-35.25' L-Brown, moist f Sand 35.25'-36.25' tan, Dry, Silty f Sand 36.25'-36.75' Orange, L-Brown, moist, Clayey fm Sand 36.75'-37.5' L-Grey, Orange, moist, varved, Clay with laminations of f Sand 37.5'-40' No Recovery		
40			30-40	120/89	4.5			
45						40-41' L-Brown, moist fm Sand 41'-41.75' Brown, moist, Silty fm Sand, varved, with Black Silt 41-41.2 41.75'-42.25' D-Brown, moist, fm Sand little Silt 42.25-44' Orange, moist, fm Sand, trace Silt 44-47' tan, Dry, Silty f Sand 47'-47.33' Brick red, L-Brown, moist, Mottled fm Sand trace Silt 47.33-50' No Recovery		
50			40-50	120/88	1.4			
55						50'-52' L-Brown, Orange-L Brown, moist, mottled Silt and f Sand 52'-52.75' Orange-L Brown, moist, Silty fm Sand 52.75'-55.1' tan, Dry, Silty f Sand 55.1-60 No Recovery		
60			50-60	120/61	1.8			
65						60-60.5 L-Grey, moist, clay 60.5-61 L-Brown, L-Grey, wet, varved, Silty f Sand, with L-Grey Clay laminations 61-62.25 L-Grey, Grey, varved, Clay with thin f Sand layers moist 62.25-70 No Recovery		
			60-70	120/27				Groundwater Sample 72.5-75

NY-2

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI - 18

Page 1 of 1

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/28/2018 Drilling Co. Cascade

Total Depth 30 Method Used Roto-Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini-RAE 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
						0-0.75' Concrete, with wire reinforcement 0.75'-2' Orange-L Brown, moist, Silty f Sand 2'-3.6' L-Brown, moist, Silty f Sand 3.6'-10' No Recovery		
5								
			0-10	120/43	0.3			
10						10'-12.75' L-Brown, L-Orange-Brown, moist, Mottled Silty f Sand with layers of Clayey f Sand, mottled, L-Gray, Clay 12.75'-14.25' L-Brown, moist f Sand 14.25'-15' L-Brown, Gray, moist, Silty f Sand 15-20 No Recovery		
15								
			10-20	120/60	0.8			
20						20-21 L-Brown, L-Grey, moist, Clay 21'-21.5' D-Grey, L-Brown, moist, varved f Sand trace Silt 21.5'-23.25' L-Brown, moist, f Sand, with mica 23.25'-24.25' Grey, D-Grey, moist, Clay 24.25'-24.75' Orange-L Brown, moist, Clayey f Sand 24.75'-25.25' Brown, moist, f Sand little Silt 25.25'-25.75' Orange, moist f Sand little Silt 25.75'-26.25' Black, L-Brown, moist, mottled Silty f Sand 26.25-27 L-Brown, Dry, Silty f Sand 27-27.5 Black, Dry, Silty f m Sand 27.5-29 L-Brown, Dry, Silty f Sand 29-30 No Recovery		
25								
			20-30	120/109	5.5			
30								

NY-1

CDM
environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-19

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/28/2018 Drilling Co. Cascade

Total Depth 80' Method Used Roto-Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini-RAE 3000 Water Table Depth ~60'

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
5			0-5	60 /		0-0.25' Asphalt 0.25'-1' L-Brown, moist, fm Sand some fine Gravel (rounded) 1'-5' L-Brown, moist, fm Sand		
10			5-10	60 / 37	0	5'-6' Brown, Orange, moist, mottled, f Sand little Silt 6-6.5' L-Brown, moist, f Sand little Silty Clay 6.5'-7.75' Gray, L-Brown, Orange, Black, moist, Varved, Silty f Sand, with mica 7.75'-8.1' L-Brown, moist, f Sand trace Silt 8.1'-10' NO Recovery		
15						10'-11.66' L-Brown, Grey, L-Grey, wet, f Sand little Clayey Silt 11.66'-12' Bentonite and Backfill from another boring 12'-12.25' Brown, moist, Silty f Sand 12.25'-14.66' L-Brown, Black, Orange, moist, mottled, Silty f Sand, with mica 14.66'-16' Black, Orange, moist, varved, Clayey Silt and f Sand, with mica 16-16.5' tan, moist, f Sand 16.5'-16.75' L-Brown, moist, Clayey f Sand 16.75'-17.1' L-Gray, moist, Silty Clay little f Sand 17.1'-20' No Recovery		
20			10-20	120 / 88	0.5			
25						20'-23' L-Brown, L-Grey, moist, varved, f Sand trace Silt, with mica 23'-24' Grey, L-Grey, moist, f Sand some Silty Clay 24'-24.5' L-Grey, L-Brown, moist, mottled, Clay mottled with clayey f Sand 24.5'-25.25' Orange, Black, Brown, moist, mottled f Sand little Clayey Silt 25.25'-26' Orange, moist, fm Sand 26'-27.25' Orange-L Brown, moist, Silty f Sand		
30			20-30	120 / 87	1			

NY-1

CDM

environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-19

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30-33.5' L-Brown, wet, fm Sand 33.5-33.75' Orange-Brown, moist, Clayey fm Sand 33.75-34.25' L-Brown, moist, fm Sand little Silt 34.25-35' L-Brown, Orange-L Brown, L-Grey, moist, mottled, 35-35.5' L-Brown, wet, fm Sand little Silt 35.5-37' L-Brown, wet, fm Sand 37-40' No Recovery		
40			30-40	120/84	2.2			
45						40-42' L-Brown, wet, fm Sand 42-42.75' L-Orange-Brown, wet, fm Sand little Silt 42.75-44.75' Orange-Brown, wet, fm Sand 44.75-45.75' L-Brown, moist, Silty f Sand 45.75-47.5' L-Brown, moist, f Sand 47.5-48' tan, Dry, Silty f Sand 48-48.5' L-Brown, Dry, fm Sand 48.5-50' No Recovery		
50			40-50	120/102	at 47' 49			
55						50-51.5' L-Brown, wet, fm Sand 51.5-54' L-Brown, wet, fm Sand trace Silt 54-54.5' tan, Dry, Silty f Sand 54.5-55.25' Orange-L Brown, Dry, fm Sand 55.25-58.5' L-Brown, moist, fm Sand little Silt 58.5-60 No Recovery		
60			50-60	120/102	4.3			
65						[redacted] AE 60-62.5' L-Brown, wet, f Sand 62.5-63' L-Brown, orange, wet, mottled f Sand 63-65.75' [redacted] AE L-Brown, L-Grey, wet, mottled, f Sand, with lumps of L-Grey Clay at 63.5' and 64.5' and 65.25' 65.75-66.5' Black, L-Orange-Brown, wet, varied, f Sand little Silt 66.5-70 No Recovery		
			60-70	120/78	2			

NY-2

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-19

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
70						70'-71.5' Black, Brown, Orange, Grey, wet, f Sand Some Silty Clay		
						71.5'-79' L-Brown, Orange-L Brown, wet, fm Sand little Silt, with L-Grey Clay lumps at 74', 74.5', 75.25'		
75						79-80 L-Grey, moist, Clay		
			70-80	120/120	0			
80								

NY-2

CDM
environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-20

Log of Boring

Project FAL Location Old Bethpage, NY Job. No

Date Drilled 6/29/2018 Drilling Co. Cascade

Total Depth 80' bgs Method Used Roto-Sonic

Inspector AE + FR Organic Vapor Instruments Used Mini-RAE 3000 Water Table Depth

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. - PPM	Sample Description	Strata Change	Remarks (Time of Day)
0						0-0.25' Asphalt 0.25'-1.5' Brown, moist, fm Sand little Silt trace fine Gravel with roots 1.5'-5' L-Brown, moist, fm Sand		
5			0-5	60		5'-6.75' L-Brown, moist, f Sand trace Silt 6.75'-7.25' L-Brown, Orange, Black, moist, mottled, f Sand and Silt 7.25'-9.25' L-Brown, L-Orange-Brown, moist, varved, f Sand 9.25-10 L-Brown, moist, f Sand trace Silt		
10			5-10	60/60	1	10'-13' L-Brown, Orange, L-Grey, moist, mottled, f Sand trace Silt 13'-13.5' L-Brown, Black, Orange, moist, varved, f Sand trace Silt 13.5'-14.5' L-Brown, moist, f Sand 14.5'-15' Black, L-Grey, moist, varved, Silty f Sand 15-15.5' Orange, Black, L-Brown, moist, mottled, Silty f Sand 15.5'-16' L-Brown, Dry f Sand 16-16.5' Orange, Black, L-Brown, moist, varved, f Sand little clayey Silt 16.5'-20' No Recovery		
15								
20			10-20	120/78	4	20-22' L-Grey, wet, mottled, Clay some f Sand 22-24.25' L-Brown, Black, moist, mottled from 23-23.5' f Sand trace Silt 24.25'-24.75' Grey, Orange, moist, Clay 24.75'-25' Brown, moist, [redacted] f Sand little [redacted] Clay 25'-25.5' Black, moist, Silty f Sand 25.5'-27' tan, Dry, Silty Sand 27'-27.75' L-Brown, Dry, f Sand 27.75'-29' L-Brown, moist, fm Sand 29'-30' L-Brown, moist, f Sand trace Silt		
25								
30			20-30	120/120	14			

NY-1

CDM

environmental engineers, scientists, planners & management consultants

BORING NUMBER: PDI-20

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
35						30'-31.25' Black, wet, fm Sand little Silt 31.25'-32.25' Orange-L Brown, fm Sand trace Clayey Silt 32.25'-33.25' L-Brown, Black, Dry, mottled, fm Sand 33.25'-33.5' Black, moist, Silty f Sand 33.5'-34.5' tan, Dry, Silty f Sand 34.5'-35' L-Brown, Dry, f Sand 35'-38' L-Brown, moist, fm Sand trace Clay 38'-40' Black, L-Brown, Brown, moist, mottled, f Sand little Clayey Silt		
40			30-40	120/120	13			
45						40'-42.5' L-Brown, L-Orange-Brown, wet, fm Sand 42.5'-43.75' Black, wet, Silty f Sand 43.75'-46' L-Brown, moist, f Sand 46'-48' tan, Dry, Silty f Sand 48'-48.75' L-Brown, Dry, Silty f Sand 48.75'-50' L-Brown, wet, fm Sand		
50			40-50	120/120	7.5			
55						50'-54.25' Brown, L-Brown, wet, mottled, fm Sand 54.25'-55.75' Orange-Brown, Wet, Silty f Sand 55.75'-56.75' L-Brown, Dry, f Sand 56.75'-58' Orange-Brown, moist, fm Sand, little Silty Clay 58'-58.6' L-Grey, Grey, Orange, moist, varved, Clay 58.6-60' L-Brown, Orange, Grey, wet, varved, f Sand, trace Silt		
60			50-60	120/120	4.5			
65						60'-65' L-Brown, wet, f Sand 65'-66.5' D-Brown, moist, Silty f Sand 66.5'-68.75' tan, Dry, Silty f Sand 68.75'-70' L-Brown, Dry, Silty f Sand		
			60-70	120/120	1.7			

NY-2

CDM

environmental engineers, scientists,
planners & management consultants

BORING NUMBER: PDI-20

Log of Boring

Depth (feet)	Samp. No.	Blows per 6" lbs.	Sample Interval	Adv./ Recov.	Org. Vap. (PPM)	Sample Description	Strata Change	Remarks (Time of Day)
70						70'-71' Orange, wet, Silty fm Sand 71'-71.75' Orange, L-Grey, moist, mottled, Clayey fm Sand with L-Grey, moist, clay veins 71.75'-72.75' Grey, Orange, Brown, moist, varved Silty f Sand 72.75'-74' L-Grey, Black, Orange, moist, varved, Clay 74'-80' Black, moist, Lignite		
75								
80			70-80	120/120	0.7			

NY-2

CDM

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Test Boring Log

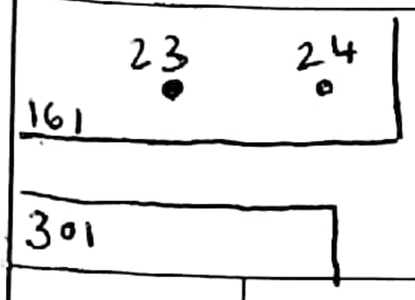
Client: NYSDEC
Project Name: FAL
Project Location: Old Bethpase, NY
Project Number: 215958

Drilling Contractor
Company: Cascade
Driller: Lucas / Canos
Drilling Method: Geoprobe

Boring No.: PDI-23
Page: 1 of 1
Location: Bethpase

Hammer Weight:
Hammer Drop Height:
Spoon Size: 2"

Location Sketch



Monitoring Equipment Used: PID mini RAE

	Depth	Date	Time
Depth to Water			

Elevations / Depths
Ground Surface:
Top of Casing:
Top of Screen:
Bottom of Screen:

Logged By: LE
Title: E.ENG
Date Start: 7/25/18
Date Finish: 7/25/18

Depth	Sample No.	Blows per 6"	Sample Depth	Advance / Recov.	Org. Vap.	Env. Sample Collected	In Situ Test	Sample Description	Strata Change
0				60"/48"	0.8			0-3". concrete	
1								3" – 3' brown fmc sand with some coarse gravel loose.	
2									
3									
4								3'-4' brown fine-med sand compact with little silt.	
5									
6				60"/60"	6.0			5-6' light brown fine-med SAND	
7									
8								6'-10' orange-brown fmc SAND. Moist. Brown striations: silt.	
9									
10									
11				60"/60"	0.0			10-11' Brown fmc SAND loose. + moist.	
12									
13								11-13' light brown-gray silty-fine SAND.	*
14								13-15' light Orange fine-med SAND with ~~some~~ trace silt.	* BAND OF 4" LIGHT GRAY CLAY @ 12
15									
16								15-18.5' Orange fmc-SAND	
17				60"/60"	0.0			15.5-16.5' - light brown fine SAND little silt	
18								16.5-17.5' - White - light orange med coarse SAND.	
19					0830		PDI-23-50-FB-20180725	17.5-18.0' brown coarse SAND.	
20								18.0'-20.0' - light GRAY silt CLAY.	

Sample Types	Consistency vs. Blowcount / Foot				Burmister Classification	
S -- Split Spoon	Granular (Sand):				and	35-50%
U -- Undisturbed Tube	V. loose: 0-4	Dense: 30-50	V.Soft: < 2	Stiff: 8-15	some	20-35%
C -- Rock Core	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	little	10-20%
A -- Auger Cuttings	M. Dense 10-30		M. Stiff: 4-8	Hard: >30	trace	<10%
					moisture, density, color	

Remarks: PDI-23-50-18-20180725 - DUPLICATE COLLECTED @ 0840

Updated On: 04/09/01

CDM

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Test Boring Log

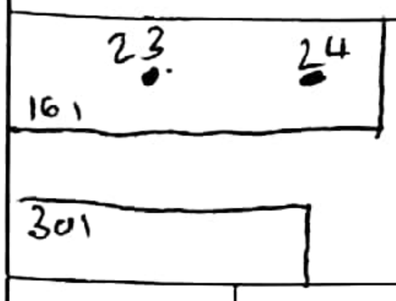
Client: NYSDEC
Project Name: FAL
Project Location: Old Bethpage, NY
Project Number: 215958

Drilling Contractor
Company: Cascade
Driller: Lucas/Carlos
Drilling Method: Geoprobe

Boring No.: PDI-24
Page: 1 of 1
Location: Bethpage

Hammer Weight:
Hammer Drop Height:
Spoon Size: 2"

Location Sketch



Monitoring Equipment Used: PID miniRAE

	Depth	Date	Time
Depth to Water			

Elevations / Depths
Ground Surface:
Top of Casing:
Top of Screen:
Bottom of Screen:

Logged By: LE
Title:
Date Start: 7/25/18
Date Finish: 7/25/18

Depth	Sample No.	Blows per 6"	Sample Depth	Advance / Recov.	Org. Vap.	Env. Sample Collected	In Situ Test	Sample Description	Strata Change
0				60"/24"	0.0			0-8" - concrete - Whit-lmc aggregate	
1								8"-2' coarse brown SAND with C. gravel - loose.	
2									
3									
4									
5								5'-6' - fmc brown SAND	
6				60"/36"	0.0			6'-8' - Brown fine-med SAND - loose w/ some gravel.	
7									
8									
9									
10								10'-10.5' - loose white coarse SAND	
11								10.5'-12' - light gray-brown coarse SAND w/ coarse gravel	
12				60"/24"	0.0				
13									
14									
15								15-16' - brown fmc SAND w/ some gravel	
16									
17				60"/36"	0.2	0850 X 18'	PDI-24 50-18-20180725	16-17.5' - brown-light gray fmc gravelly SAND	
18								17.5'-18' - orange fmc SAND	18' to 18.5' Light Brown to Light Gray Silt Clay
19									
20									

Sample Types	Consistency vs. Blowcount / Foot								Burmister Classification	
S -- Split Spoon	Granular (Sand):				Fine Grained (Clay):				and	35-50%
U -- Undisturbed Tube	V. loose:	0-4	Dense:	30-50	V.Soft:	< 2	Stiff:	8-15	some	20-35%
C -- Rock Core	Loose:	4-10	V. Dense:	>50	Soft:	2-4	V. Stiff:	15-30	little	10-20%
A -- Auger Cuttings	M. Dense	10-30			M. Stiff:	4-8	Hard:	>30	trace	<10%
									moisture, density, color	

Remarks:

Updated On: 04/09/01

CDM

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Test Boring Log

Client: NYSDEC
Project Name: FAL
Project Location: Old Bethpage, NY
Project Number: 215958

Drilling Contractor
Company: Cascade
Driller: Lucas/Carlos
Drilling Method: Geoprobe

Boring No.: PDI-25
Page: 1 of 2
Location:

Hammer Weight:
Hammer Drop Height:
Spoon Size: 2"

Location Sketch

Monitoring Equipment Used:

	Depth	Date	Time
Depth to Water			

Elevations / Depths
Ground Surface:
Top of Casing:
Top of Screen:
Bottom of Screen:

Logged By: CE
Title:
Date Start: 7/25/18
Date Finish: 7/25/18

Depth	Sample No.	Blows per 6"	Sample Depth	Advance / Recov.	Org. Vap.	Env. Sample Collected	In Situ Test	Sample Description	Strata Change
0				60"/48"	0.0			0-3" concrete	
1								3"-1' Coarse Brown SAND w/ med. gravel	
2								1'-4' fine-med brown SAND w/ trace silt.	
3									
4									
5								5-6' fine-med SAND - light orange-brown	
6								6'-9' fine-med SAND orange-light brown loose dry	
7				60"/48"	0.0				
8									
9									
10								10'-11' SAA - (same as above)	
11									
12				60"/36" 48"	0.0			0930 PDI-25-50-14-20180725 11'-12' light brown SAND w/ some silt.	
13						X		12'-13.5' orange fine SAND, loose	
14								13.5'-15' Light Gray silty CLAY very	
15									
16				60"/48"	1.6			+ MS/MSD 15-16' Wet brown silty SAND.	
17								16-16.5' orange medium SAND moist.	
18								16.5-19' light brown-light orange moist. silty fine SAND - some black silt stringers	
19									
20									

Sample Types	Consistency vs. Blowcount / Foot								Burmister Classification	
S -- Split Spoon	Granular (Sand):				Fine Grained (Clay):				and	35-50%
U -- Undisturbed Tube	V. loose:	0-4	Dense:	30-50	V.Soft:	< 2	Stiff:	8-15	some	20-35%
C -- Rock Core	Loose:	4-10	V. Dense:	>50	Soft:	2-4	V. Stiff:	15-30	little	10-20%
A -- Auger Cuttings	M. Dense	10-30			M. Stiff:	4-8	Hard:	>30	trace	<10%
									moisture, density, color	

Remarks: MS/MSD collected.

Updated On: 04/09/01

CDM

50 Hampshire Street
One Cambridge Place
Cambridge, MA 02135
(617) 452-6000

Test Boring Log

Client:	Drilling Contractor	Boring No.: PD1-25
Project Name:	Company:	Page: 2 of 2
Project Location:	Driller:	Location:
Project Number:	Drilling Method:	
Hammer Weight:	Hammer Drop Height:	Spoon Size:

Location Sketch	Monitoring Equipment Used:			
		Depth	Date	Time
	Depth to Water			

Elevations / Depths	Logged By:
Ground Surface:	Title:
Top of Casing:	Date Start:
Top of Screen:	Date Finish:
Bottom of Screen:	

Depth	Sample No.	Blows per 6"	Sample Depth	Advance / Recov.	Org. Vap. ppm	Env. Sample Collected	In Situ Test	Sample Description	Strata Change
20				60"/36"				20'-21' brown fine SAND	
21								21-22' light orange-brown fine-med SAND	
22								22-22.5' 21" - light gray stiff CLAY, little silt; light brown fm SAND	
23					3.1 @ 22.5'			22.5-23' orange m-c SAND w/some black silt striations	
24									
25									
26									
27									
28									
29									
30									
1									
2									
3									
4									
5									
6									
7									
8									
9									
0									

Sample Types	Consistency vs. Blowcount / Foot								Burmister Classification	
	Granular (Sand):				Fine Grained (Clay):					
S -- Split Spoon									and	35-50%
U -- Undisturbed Tube	V. loose:	0-4	Dense:	30-50	V.Soft:	< 2	Stiff:	8-15	some	20-35%
C -- Rock Core	Loose:	4-10	V. Dense:	>50	Soft:	2-4	V. Stiff:	15-30	little	10-20%
A -- Auger Cuttings	M. Dense	10-30			M. Stiff:	4-8	Hard:	>30	trace	<10%
									moisture, density, color	

Remarks:

Updated On: 04/09/01

CDM Smith

Boring Name: DDI-26

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: Geoprobe
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20
Depth to Initial Water Level (ft bgs): NA
Field Screening Instrument: PID
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
0				60"/40"	0.0 ppm		0-3" concrete 3"-3' very fine-med SAND, brown w/ little coarse gravel. Dry gray silt band @ 3' - tight. 3'-3'33 - fine-med brown SAND,
5				60"/60"	higher readings at 6.5' ~20 ppm to 50 no shaking? 80 ppm; later readings ~10 ppm		@ 5-5.5' fine-med brown SAND poorly graded. dry 3"- concrete? @ 5.5' 6-8.5 orange-brown very fine-fine SAND dry
10				36"/60"	7.4 ppm 8.8 ppm		8.5-10' light brown-white f-m SAND some orange-brown banding. 10-11' brown-orange fine SAND poorly graded. dry loose 11-11.5' light gray CLAY under lain by 1in white coarse SAND 11.5-13' orange fine-med SAND multi colored banding
15			17.5' Collected sample	60"/60"	16.2' 11.9'		15-15.5' SAA 15.5-17.5 light brown-brown moist fine SAND some multicolor banding 17.5'-20' light gray CLAY moist/water observed above clay
20							

Remarks: Collected DDI-26-50-17.5-031219 @ 0530

Boring Completion Depth ft bgs 20'

CDM Smith

Boring Name: PIDI-27

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/48"	5.7 ppm		0-3" concrete 3"-1' brown f-m SAND w/ some gravel 2" brown silt band @ 1' - tight 1-3' orange-brown vf-fm SAND some angular gravel 3-4' orange fm SAND dry, tight.
10				60"/60"	14.9 ppm		5-5.75' SAA 5.75' → concrete/cement - 3" 6'-9' orange f-m SAND w/ dry mult color banding white/black poorly graded 9'-10' light brown vf-f SAND w/ some silt. dry
15				60"/36"	8.0 ppm		10-11' brown fine-med SAND 11-12' light brown vf-fine lose SAND 12-12.5' black silt lens - lignite-like? 12.5-13' light brown - white vf-f sand w/ little silt.
20			17' Sample Collected	60"/60"	9.4 ppm		15-16' brown f-m SAND lose, dry 16-17' light brown-white: fine SAND, moist 17-20' light grey clay, stiff - somewhat lean

Remarks: Collected Sample PDI-27-SO-17-031219 @ 0945

Boring Completion Depth ft bgs 20'

CDM Smith

Boring Name: PDI-28

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DDT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20
Depth to Initial Water Level (ft bgs):
Field Screening Instrument: PID
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/60"	2.9 ppm		0-3" Concrete 3"-1.5' brown mf SAND w/ some angular gravel 1.5-4' brown f-m SAND, dry tight 4-5' light brown mf SAND w/ trace silt
10				60"/48"	8.2 ppm		5-5.75' SAA 2" Concrete/cement @ 5.75' 5.75-9' light brown VF-F SAND w/ orange to light orange f SAND banding 10-11' light brown FINE SAND w/ some angular gravel
15				60"/60"	25.0 ppm		11-15' light brown fine SAND w/ orange and dark brown silt and vf SAND banding throughout.
20			16' sample collected	60"/48"	10 ppm		15-16' SAA, wet 16-19' a light gray to brown CLAY w/ little moisture.

Remarks: Collected sample PDI-28-SO-16-031219 @ 16' 1215

Boring Completion Depth ft bgs 20

CDM Smith

Boring Name: PDI-29

Client: NYSDEC
Project Location: Old Bethpage

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument: PID
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	1.5 ppm		0-3" concrete 3"-2' brown fine-med SAND w/ some coarse angular gravel loose 2-3' brown vf-f SAND. dry
10				60"/36"	5 ppm		5-5.5' fine-med brown SAND dry 5.5-3' concrete/cement 6-7' orange-brown vf-f SAND w/ some silt 7-8' light brown-white f-m SAND-loose. w/ little silt. banding
15				60"/60"	12.5ppm		10-11' brown fine SAND w/ some small gravel 11-12' light brown-orange vf-f SAND w/ some silt moist @ 12' 12-15' orange fine-med SAND w/ multicolor SAND/silt (white, black) banding
20			17.5' Collected Sample	60"/60"	5.7 ppm		15-16' brown fine SAND, loose. dry. 16-17.5' orange-brown f-m SAND w/ some white silt banding moist 17.5-20' light gray clay, stiff. somewhat moist

Collected PDI-29-50-17.5-031219 @ 0915

Remarks:

Boring Completion Depth ft bgs 20'

CDM Smith

Boring Name: PDI-30

Client: NYSDEC
Project Location: OLD BETHPAGE, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: CASCADE
Drilling Method: DPT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: A. HARROLD

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	1.4ppm		0-3" CONCRETE 3"-1.5' BROWN F-M SAND W/ SOME GRAVEL 2" ORANGE-BROWN SILT BAND @ 1.5'-TIGHT 1.5'-3' BROWN F-M SAND, DRY, TRACE GRAVEL
10				60"/45"	4ppm		5'-5.75' SAA 2" CONCRETE/CEMENT @ 5.75' 6'-7.5' BROWN F-M SAND W/ TRACE GRAVEL 7.5'-9.5' LIGHT BROWN VF-F SAND W/ ORANGE BANDING
15				60"/48"	3.2ppm		10'-11' SAA 11'-11.25' BROWN F-M SAND W/ GRAVEL 11.25'-12' LIGHT BROWN F-M SAND W/ BLACK & ORANGE BANDS 12'-14' LIGHT BROWN AND GRAY VF-F SAND W/ SILT BANDING
20			17.5' SAMPLE COLLECTED	60"/45"	5.1ppm		15'-15.5' BROWN F-M SILTY SAND 15.5'-17.5' BROWN VF-F SAND, MOIST 17.5'-18.5' LIGHT GRAY CLAY, STIFF, SOME ORANGE CLAY BANDS

Remarks: COLLECTED SAMPLE PDI-30-SO-17.5-031219 @ 1030

Boring Completion Depth ft bgs 20'

CDM Smith

Boring Name: PDI-31

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	2.1 ppm		0-3" concrete 3"-1' f-m SAND w/ some angular gravel 1'-2" brown stiff silt band 1'-2.5' tight brown f-med SAND with little silt. 2.5-3' = orange fm SAND, loose dry
10				60"/48"	4.3 ppm		5-5.5' - SAA 5.5' - concrete/cement 3" 6'-9' orange fine-med SAND w/ some light brown SAND bandings w/ trace silt.
15				60"/60"	9.6 ppm		10-11' brown - fine-med SAND moist, 9 11-15' brown-orange fine-med SAND w/ multicolored (dark brown, white) dark brown silt and white med SAND banding - some banding of lignite-like material
20			17.5' SAMPLE COLLECTED	60"/36"	6.8 ppm		16-17' brown - fine-med SAND w/ moist orange banding 17-17.5' orange fine-med SAND moist/wet 17.5-19' light gray clay - brown clay, moist toward clay

Remarks: COLLECTED SAMPLE @ 1100 PDI-31-SO-17.5-031219

Boring Completion Depth ft bgs 20

CDM Smith

Boring Name: PDI-32

Client: NYSDEC
Project Location: Old Bethpage

Project Name: FAL
Project Number: 215958

Drilling Contractor: CASCADE
Drilling Method: DPT
Sample Method:
Drilling Date: 3/12/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 20
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: A. HARRAD

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	3.2 ppm		0-3" CONCRETE 3"-1.5' BROWN F-M SAND w/ SOME ANGULAR GRAVEL, DRY, 1.5'-2' BROWN SILTY SAND, DRY, TIGHT 3" OF CONCRETE/CEMENT @ 2' 2'-3' BROWN F-M SAND w/ SOME ORANGE SILTY SAND BANDING 5'-5.5' SAA 2" CONCRETE/CEMENT @ 5.5' 5.5'-6.5' LIGHT BROWN VF-F SAND 6.5'-7' ORANGE AND BROWN SILTY SAND, TIGHT 7'-10' LIGHT BROWN VF-F SAND w/ ~~MM~~ 4H ORANGE BANDING 10'-13' LIGHT BROWN FINE SAND w/ MULTICOLORED (DARK BROWN, ORANGE) SILT AND SAND BANDING, DRY 13' SOME LIGNITE-LIKE MATERIAL 13'-15' LIGHT BROWN VF-F SAND, WET, w/ MULTICOLORED SILT & SAND BANDING 15'-16' SAA 16'-17' LIGHT GRAY CLAY - BROWN CLAY MOIST
10				60"/60"	3.5 ppm		
15				60"/60"	5.9 ppm		
20			16' SAMPLE COLLECTED	60"/24"			

COLLECTED SAMPLE PDI-32-SO-16-031219 @ 1130

Remarks:

Boring Completion Depth ft bgs 20

CDM Smith

Boring Name: PDI-33

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/13/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 15
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	0.2 ppm		0-2' asphalt 2"-2' brown ~~f-m~~ fine SAND w/ some light angular gravel, moist almost wet. 2-3' light brown f-m SAND, loose
				60"/36"	24.6 ppm @ 6.5'		5-7' SAA 7-8' orange fine SAND w/ white F sand bandins. 2" light gray CLAY lens @ 7.5'
10			Sample collected @ 13' + DUP	60"/48"	24.6 ppm		10-13' light brown-orange FINE SAND w/ some multicolor F SAND bandins 13-14' light gray CLAY wet @ 12'
15							
20							

Collected PDI-33-SO-13-20031319 @ 13' (0800)
Remarks: DUP and PDI-33-SO-13-031319 @ 13' (0815)
Boring Completion Depth ft bgs 15

CDM Smith

Boring Name: PD1-34

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/13/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 16.5'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument: PID
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/40"	0.4 ppm		0-3" Concrete 3"-1.5' brown Vf-f ~~SAND~~ SILTY SAND w/ some angular gravel (subbase) 1.5-3.5' light brown f-m SAND loose. moist. 5-6' SAA 1" of cement @ 6' 6-10' light brown-orange fine SAND w/ trace silt somewhat moist.
10				60"/60"	3.7 ppm		
15			Collected sample @ 15'	60"/~~6~~4"/50	374 ppm @ clay interface		10-11.5' brown FINE SAND w/ little SILT 11.5-~~14.5~~ 15' light brown-orange FINE SAND w/ multicolored SAND bandings and silt bandings (light lite bandings @ 14.5') wet @ 14' @ 15' light gray CLAY extends at least 16 inches (15-~16.25')
20							

Remarks: Collected PD1-34-SO-15-031319 @ 15' @ 0900

Boring Completion Depth ft bgs 16.5'

CDM Smith

Boring Name: PDI-35

Client: NYSDEC
Project Location: Old Bethpage

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/13/14
North:
East:

Surface Elevation (ft amsl):
Total Depth: 15.5'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60"/36"	1.4 ppm @ 1'		0-0.3" concrete 3"-2' brown fine SAND, dry, w/some gravel (subbase) 2-3' light brown VF-F SAND dry. loose.
				60"/48"	3.8 ppm @ 9'		5-5.75' SAA @ 5.75' 2" concrete 5.75-9' light brown-orange fine SAND, somewhat moist. loose.
10				60"/48"	3.5 ppm @ 13.5'		10-11' brown FINE SAND w/ some gravel 11-14' light brown-orange FINE SAND w/some multicolor bandings (iron like bandings @ 13.75' 14' - light gray CLAY extends @ least 18"
15			14' Sample collected + MS/MSD				
20							

Remarks: Collected sample PDI-35-SO-14-031314 + MS/MSD @ 0945

Boring Completion Depth ft bgs 16.5

CDM Smith

Page 1 of 1

Boring Name: PDI-36

Client: NYSDEC
Project Location: Old Bethpage, NY

Project Name: FAL
Project Number: 215958

Drilling Contractor: Cascade
Drilling Method: DPT
Sample Method:
Drilling Date: 3/13/19
North:
East:

Surface Elevation (ft amsl):
Total Depth: 15'
Depth to Initial Water Level (ft bgs):
Field Screening Instrument:
Logged by: L. ESTRADA

Depth (ft. bgs)	Sample Number	Blows per 6 inches	Sample Interval (ft)	Recovery (ft)	OVM Reading (ppm)	Graphic Log	Material Description
5				60" / 36"	0.9 ppm		0-3" concrete 3"-2' brown fine SAND. w/some angular gravel (subbase) dry 2-3' light brown VF-F SAND. dry. loose.
10				60" / 48"	7.1 ppm		5-5.75' SAA @ 5.75' 2" concrete/cement 5.75-9' light brown-orange fine SAND w/ little silt. moist. loose.
15			13.5' sample collected	60" / 48"			10-11.5' brown FINE SAND. dry. loose 11.5-13.5 light brown-orange FINE SAND w/ some silt/SAND bandings 13.5' light gray CLAY -14'
20							

Remarks: Collected Sample PDI-36-B50-13.5-031319 @ 1015

Boring Completion Depth ft bgs 15'

Appendix C
Field Notes

Former Aluminum
Louvre
NYS DEC

Rite in the Rain®
ALL-WEATHER
ENVIRONMENTAL
№ 550F

Pine Environmental Services LLC

The Environmental Supply and Support People
Rentals - Sales - Repairs
www.pine-environmental.com

CONTENTS

PAGE	REFERENCE	DATE

Location Old Bethpage, NY Date 10/23/17

Project / Client Former Aluminum Louvre PDI

10/23/17 645 A. Reilly and C. Meehan (CDM Smith) onsite
Weather: cloudy, 64°F
715 Cascade (2 personnel) onsite
Checked with NY Paving to confirm ok to access geoprobe locations
730 Cascade mob - begin at PDI-4
800 Begin advancing PDI-4 boring
hand clear top five feet, dark and light brown sand, some small rocks
5-10 ft, recovery 4 ft, PID 0.0 ppm
brown sand, dry, mostly loose, slightly
Finer 7-8 ft, some dark silty at 9-10
10-15 recovery 4 ft, PID 0.0 ppm
brown sand, dry, soft, loose
15-20, recovery 4.5 ft, PID: 0.0
15.5-16.0 moist, brown and black/gray
silty sand, loose
16-17 brown silty, sand, med firmness
17-20 silty brown sand, loose
20-25 ft, recovery 4.5 ft PID 0.0
21 ft: dark gray and brown silty sand
moist, loose
21-23 ft: light/med brown silty sand

Rite in the Rain

Location _____ Date 10/23/17

Project / Client _____

28-29 ft, light brown silty sand with narrow dark bands, loose, dry
29-30 firm, compacted rusty silty sand, some clay
30-35, recovery 5.0 ft, PID:
30-31, moist brown silty sand w/ some clay
31-32 brown sand loose, fine, dry
32-33 light brown, dry, loose sand with some narrow black bands
33-35 light brown/brown sand dry, loose
35-40 recovery 5 ft, PID 0.1 @ 36'
35-36 darker brown silty sand, moist
37-40 loose, dry light brown and rust colored sand, fine
40-45, recovery 5 ft. PID 0.0 ppm dry, course medium brown sand
42-42.5 ft rust colored silty sand with clay, some black silty material with metallic flecks
45-50, recovery 5 ft, PID 0.0 light brown, dry, coarse sand, loose
1445 Checked MW-161-1-S, found dry

Location _____ Date 10/23/17

Project / Client _____

Gauged water level in MW-161-1-I (95 ft) deep; DTW 75.6. Also noted that wells are 1-inch diameter, connect use Grundfos. Called Pine Syracuse. They are going to procure a 0.75-inch bladder pump
50-55, recovery 5ft, PID 0.0 ppm
50-51 dry, light brown granular sand
51-52 dry, rusty color sand
@ 52', ~4" band of gray sandy clay
-dry, rust color sand, loose
55-60, recovery 5 ft, PID 0.0 ppm
light brown and rust colored sand, dry
60-65, recovery 5ft, PID 0.0
60-64 - brown, loose, dry sand
64-65 - more rust colored, silty sand, bottom ~2" Gray silty clay
1630 End for day to avoid getting dark since takes ~30 min / five feet
1645 Offsite

10/23/17

Rite in the Rain

Location _____ Date 10/24/17

Project / Client _____

7:00 A. Rielly (COM Smith) on site
715 C Meehan (COM Smith) on site
720 Cascade on site
Weather: cloudy, windy, 69° F, rain and thunderstorms expected today
755 Continue boring PDI-3
830 65-70 ft, recovery 5ft, PID 0.0
65-66 moist sand w/ clay, brown
66-67 sandy clay, orange-brown, dense
67-69 black silty sand, moist
69-70 light brown silty sand, moist med density, bottom 2" dark gray clay with orange silty layers
measured water level @ 69.5 ft bgs
70-75, recovery 5ft
70-74 black silty clay; dry, firm, crumbles easily, metallic specks
74-75 brown brittle clay with black silty and brown sand layers still dry, using water meter down hole,
75-80, 5 ft recovery, PID 0.0
brown sandy, moist throughout, top foot appeared more wet - going to proceed to 80-85 5ft interval

Location _____ Date 10/24/17

Project / Client _____

80-85, recovery 5ft, PID 0.0 ppm
80-81 brown, coarse sand, moist
81-83.5 wet, brown silty sand
83.5-84.5 gray clay with brown silty
84.5-85 brown and rust color silty sand. DTW 69.6 in hole, hole backfilled
85-90, PID 0.0, could not get soil out of macrocore casing. Driller banged it out onto poly sheeting. Moist, dry silty sand, brown
1430 Used water tape to measure down hole. Water reading still at ~70 ft bgs, however Cascade could not get any water with screen interval set at 70-75 ft bgs. Called A. Piccone to relay that we still have not hit defined clay layer as of 90 ft bgs. Will continue to 95
90-95, recovery 5ft PID 0.0
wet, brown sand
95-100 couldn't get liner out of casing, dumped sample onto poly, brown, silty sand w/ clay

Rite in the Rain

Location _____ Date 10/24/17

Project / Client _____

1700 Advancing groundwater sampler to screen interval 80-85 ft bgs to attempt sample collection

1750 Collected PDI-3-GW-80_85_20171024 turbidity high, no reading, VOCs

1815 Off site. Drillers to backfill borehole PDI-3 in AM, Covered hole with drum

Location Old Bethpage, NY Date 10/25/17

Project / Client Former Aluminum Louvre NYSDEC

720 CDM Smith (A. Kelly, C. Meehan) onsite. Heavy rain last night, parking lot area of 161 Bethpage Sweet Hollow Rd flooded. PDI-4 borehole flooded

Weather: cloudy, 63°F

830 Cascade on site, still have same rig

900 Cascade grouting PDI-3 borehole

NY Paving has set up pump to remove stormwater from parking area

915 mob to location PDI-5, will return to PDI-4

930 Begin drilling PDI-5

hand cleaning 0-5 ft bgs, ~4" concrete, brown sand, medium gravel

5-10 ft, recovery 5 ft, PID 0.0 ppm dry, light rust and slightly darker rust colored sand, loose to firm area dark silty with brown sand at 7 ft

10-15, recovery 2 ft, PID 0.0 ppm

13-13.5 rust colored sand, light pack

13.5-15 light rust sand, dry, loose

15-20, recovery 4 ft, PID 0.0

16-18 ft dry, light brown sand with dark brown thin bands of silty @ 16'

Rite in the Rain

Location Old Bethpage, NY Date 10/25/17

Project / Client Former Aluminum Louvre, NYSDEC

18-20 light brown, loose sand, dry
20-25, recovery 4.0 ft PID 0.0
light brown, loose sand
25-30, recovery 5 ft
25-25.5 - gray, silty sand, dry
25.5-27.0 rusty colored silty sand, some dark black silty bands, dry
27.0-28.0 light brown sand with thin black bands, dry
28-28.5 brown clay with orange streaks, some silt, firm
28.5-30 loose, brown sand, dry
30-35 recovery 5ft, PID 0.0 ppm
30-31 rusty color dry sand, loose
31-32 dark brown silty soil
32-34 light brown, loose sand with dark gray bands
34-35 light rust colored silty sand, loose, dry
35-40 ft, recovery 5ft, PID 0.0
35-36 dark brown, dry silty sand
36-38 light brown and rust color loose, dry sand
38-40 light brown sand, some thin dark bands, loose, dry

Location Date 10/25/17

Project / Client

40-45, recovery 5ft PID 0.0 ppm
40-41 dark brown silty sand, dry
42-45 light brown sand, slightly compacted, some dark brown/rust bands of sand
45-50, recovery 5ft, PID 0.0 ppm
45-46 dark brown, silty sand, medium
46-50 light brown, loose sand, dry
1235 TA courier picked up GW VOC Sample collected yesterday at PSI-3
50-55 ft, recovery 5ft PID 0.0 ppm
50-51 dark brown silty sand, dry, firm
51-52.5 light brown, sand, dry, loose
52.5-55, rusty color sand, moist, medium density
55-60, recovery 5 ft, PID 0.0
55-57 dark brown sand, silt, dry medium dens. th
57-60 light brown, dry, sand, medium dens. th
60-65, recovery 5 ft PID
60-61 light brown sand silty, med dens th
61-62 dark brown and rust color silty sand
62-65 light brown, dry sand, medium dense

Rite in the Rain

Location Old Bethpage, NY Date 10/25/17

Project / Client Former Aluminum Louvre / NYSDEC

65-70, recovery 5 ft PID
65-66, dark brown, moist, silty sand
66-67.5 brown silty sand, moist to wet
67.5-69 firm, brown clay with rust color streaks
69-70 black, silty clay
1550 Collect PDFS-SO-67.5-20171025 VOC
1555 Collect PDFS-SO-65-20171025 VOC
70-75 recovery 5 ft PID
70-71 brown, moist sand, med dense
71-73 wet, brown sand
73-73.5 gray, soft clay and sand
73.5-75.0 silty clay material, stratified layers of rust and gray
1610 Collect PDI-SO73-20171025 VOC
75-80 recovery 5 ft PID 0.0
75-77.5 wet brown silty
77.5-78 ~2" gray clay to silty clay
78-80 wet silty, silty clay
Collected sample of black silty material 69-70 in jar
1630 Cascade off site to get fuel
Starting to rain heavier
1700 Cascade back on site
Collected sample of clay from 77.5 ft in jar

Location Date 10/25/17

Project / Client

1705 Communicated to drillers that we will stop for the day, given the time. They began to drill, having misunderstood.
1730 Clean up and demob
1750 Cascade and CDM Smith off site

Rite in the Rain

Location Old Bethpage, NY Date 10/26/17

Project / Client Former Aluminum Louvre, NYSDEC

700 Cascade arrive on site
715 A. Reilly (CDM Smith) on site
Weather 54°F, partly cloudy
730 Mob to PDI-5, going to try to collect gw sample from 72-75, screen 70-75
925 Attempting to collect groundwater sample. Not enough pressure for water to pump using foot valve and tubing and fully purge. Collect for one VOC and 1,4-dioxane from tubing
925 Collect PDI-5-GW-72.75-20171026
could not collect field parameters - volume sample is very turbid
80-85 recovery 5ft, PID 0.2 ppm
SU 81 wet, brown silty sand
81-81.5 brown clay, gray clay silty, wet
81.5-85 wet, brown silty sand more firm 84.5-85.0
1045 Collect PDI-5-SO-81-20171026
performed NAPL shake test - not present
Advanced groundwater sampler to 80-85 ft bgs interval
1130 Purging GW

Location Old Bethpage, NY Date 10/26/17

Project / Client Former Aluminum Louvre, NYSDEC

Turbidity after 1 gallon - no reading
Turbidity after 2 gallon - no reading
After 3 gallon purge: Temp: 16.53°C, Cond: 0.343 mS/cm, pH 6.82, ORP 12.1
Collect sample after 4 gallon purge for VOCs and 1,4-dioxane
1155 PDI-5-GW-SO85-20171026
1201 ~~PDI-5~~ GW-FD-01-20171026
12:15 Break for lunch
1240 Cascade grouting PDI-5 borehole
1250 Mob back to PDI-4 location
1315 Begin advancing at PDI-4, already collected down to 45 ft bgs
1332 Measure water level in MW-161-2-S: DTW: dry DTB: 67.4, probe gets stuck in sediment at bottom
MW-161-2-I, DTW: 72.2 DTB: 94.4 bgs
MW-161-1-S: DTB: 69.0, dry
MW-161-1-I: DTW 75.7 DTB: 94.0 ft
1435 PDI-4 borehole collapsed in a lot, needed to redrill down. Currently down to 35 ft bgs
1500 Geoprobe getting stuck at 40-45 pulling back up and will offset location

Rite in the Rain

Location Old Bethpage, NY Date 10/26/17

Project / Client Former Aluminum Louvre - NYSDEC

1530 Attempted to move geoprobe to offset location, hydraulic leg is stuck. Appears to be electrical problem.

1625 Cascade back to get hydraulic leg up so that they can move rig. Will not attempt new hole today.

1645 Cascade and CDM Smith offsite

10/26/17

Location Old Bethpage, NY Date 10/27/17

Project / Client Former Aluminum Louvre, NYSDEC

715 CDM Smith onsite (A. Rielly, C. Weeks)
Weather 42°, clear

730 Cascade onsite

0740 Cascade mob to PD14 (offset 5' E)

0800 GPS w/ Trimble locating

	Y	X
DW-1	703997.26N	784756.38E
DW-2	703993.72N	784757.36E
DW-3	703947.97N	784762.80E
DW-4	703945.75N	784814.31E
DW-5	703848.18N	784809.32E
DW-6	703877.28N	784807.66E
DW-7	703852.46N	784801.22E
DW-8	703825.10N	784798.62E
MW-161-1-S	704031.71N	784640.49E
MW-161-2-S	703816.83N	784764.55E
MW-301-1-S	703907.02N	784790.12E
PD15	703872.18N	784839.81E
PD13	703923.94N	784735.77E
DW-9	703887.44N	784791.85E
DW-10	703870.09N	784779.99E
DW-11	703900.5N	784727.33E

Rite in the Rain

Location _____ Date _____

Project / Client _____

MW-301-I DTW 65.9, DTB: 94.3 TIC (1")
MW-301-S DTW dry (1")

0630 Cascade begin PD14 at offset location
1000 Cascade could not continue drilling past 45 bgs
1010- Cascad talking smoke break
1045 and calling office to check on new rig for next week
1200 CDMSmith + Cascade off site for day

2 drums left (S01) onsite

Location Old Bethpage, NY Date 10/30/17

Project / Client Former Alumnum Louvre, NYSDEC

0730 CDMSmith (C. Meehan) onsite weather: 49°F, light rain (01 Old) Bethpage lot is flooded from yesterday's and last night's rain. No chance to return to PD14 this morning.
0735 301 lot appears to be clear from flooding, but gate was locked when checked

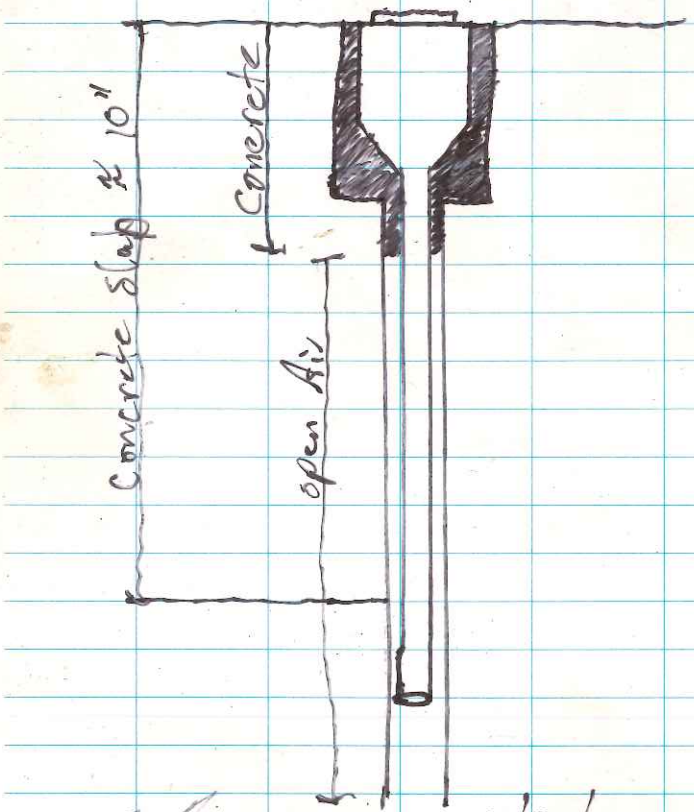
Rite in the Rain

Location Old Bethpage, NY Date 11/13/17

Project / Client Former Aluminum Louvre / NYSDEC

SVI sample port installation

1100 E. Rosenzweig on site from CDM Smith to set up 3 sub slab sample ports at 301 Winding Rd and 4 sub slab sample ports at 161 Bethpage Street in Old Bethpage, NY

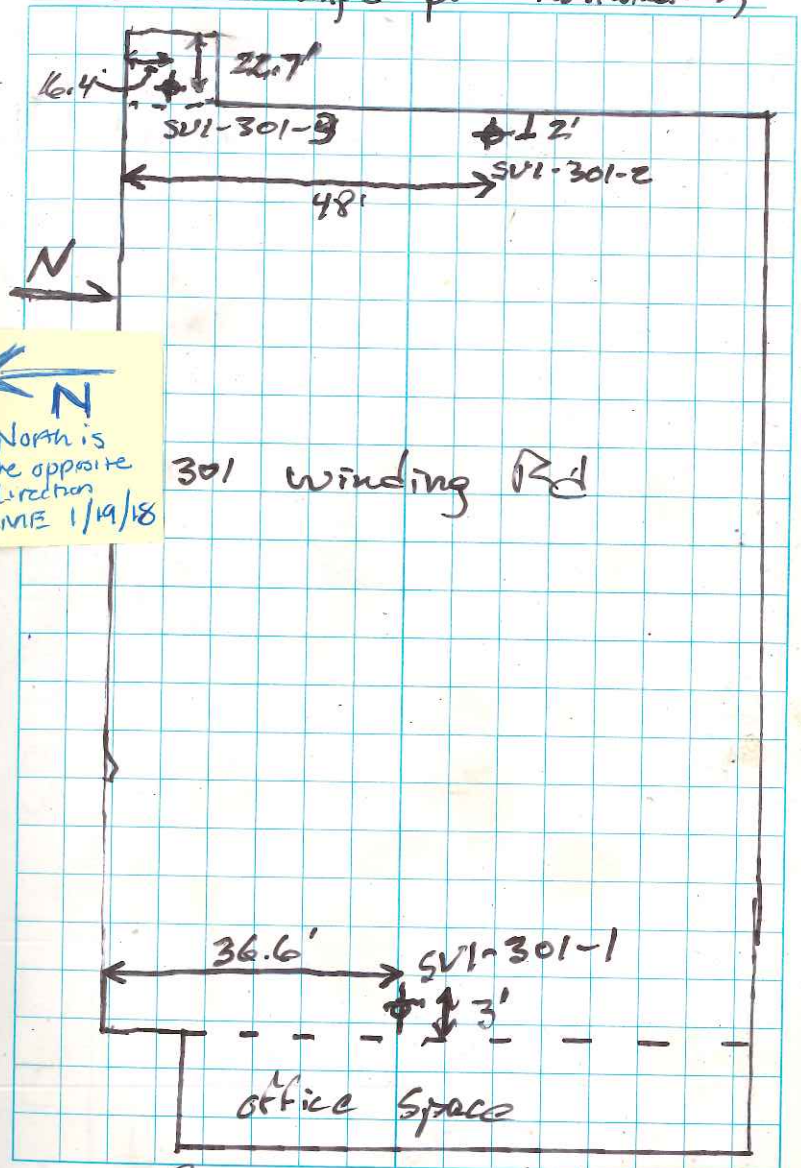


E. Rosenzweig 11/13/17

Location Old Bethpage, NY Date 11/13/17

Project / Client Former Aluminum Louvre / NYSDEC

SVI Sample port installation



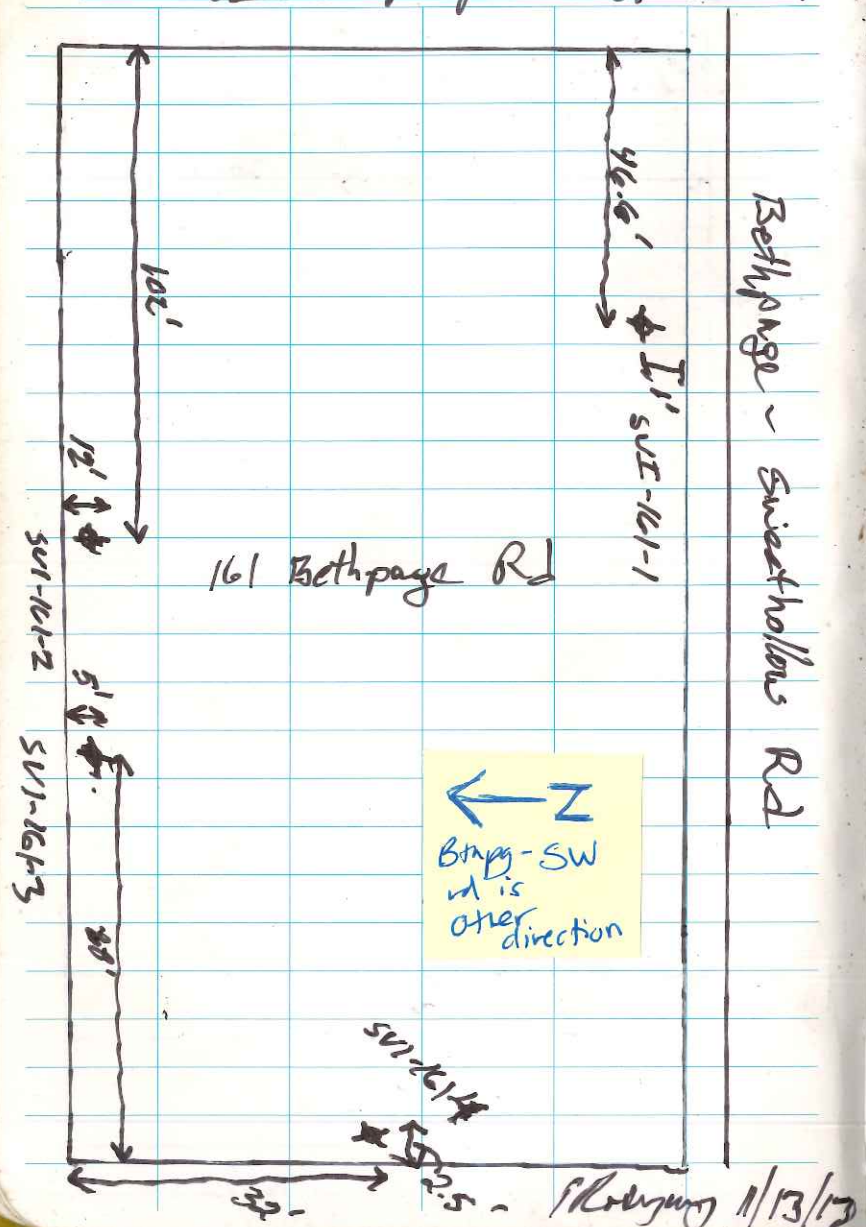
E. Rosenzweig 11/13/17

Rite in the Rain

Location Old Bethpage NY Date 11/13/17

Project / Client Former Aluminum Louvre/NYSDEC

SVI sample port installation



← N

Bthpg - SW rd is other direction

Location Old Bethpage, NY Date 11/13/17

Project / Client Former Aluminum Louvre/NYSDEC

SVI sample port Installation

1300 Allison Reilly on Site from CDM Smith.

Well Gauging

mw1-301-1-S - DRY - 65.70'

mw3-301-1-D - 68.30'

mw2-161-1S - 68.90 DTB - DRY

FRodriguez 11/13/17

Rite in the Rain

Location Old Bethpage, NY Date 11/14/17

Project / Client Aluminum Louvre

Soil Sampling / SVE Sampling

0700 E Rosenzweig & A Ridly on site from Conn Smith

weather: Overcast ≈ 40°

0710 Setting up @ 301 Winding Road.

0715 Set up summa canisters in 301 WindingRd

SVI-301-1-SS, start time: 7:20 AM, can # 6934, regulator 3875, initial pressure: -30

SVI-301-1-IA start time 721 AM can # 7060, regulator 5193, pressure: -30

SVI-301-2-SS, start time: 725 Can # 2907, regulator 5212, pressure: -30

SVI-301-2-IA start time 726 Can # 7007, regulator 3683, pressure -30

SVI-301-3-SS start time 730 can # 6937 regulator # 5182 pressure -30

SVI-301-3-IA start time 731 can # 6670 regulator # 5179, pressure -30

SVI-301-4-OA start time 735 Can # 5399, regulator 2528, pressure -27

740 Set up canisters in 151 BS# Rd

SVI-151-1-SS start 740 can # 4802 regulator # 5194 pressure -30

SVI-151-1-DUP-SS, can # 4318 reg # 3125 start pressure -30

Location Old Bethpage, NY Date 11/14/17

Project / Client Aluminum Louvre

soil boring / SVI sampling

SVI-151-I-IA, pressure -30, can # 7046 regulator 4187, start 741

SVI-151-4-SS Pressure -30 cont # 5108 reg # 3717, start 830

SVI-151-4-IA, Press -30, cont # 5056 reg # 3133, start 831

SVI-151-3-SS Press -30 Can # 5619 Reg # ~~5619~~ 3746 start 835

SVI-151-3-IA start 836 Pres -30 Can # 4574 Reg # 4501

0745 ADT (Cascade) on site w/ a 3 man crew & a Sonic Geoprobe 8140 LC Set up on PDI-4

900 Beg. advancing PDI-4, 0-45 ft bgs previously logged

1230 Having difficulty advancing, reached 45 ft bgs. Cascade expects slow go and likely only 1-2 ft of recovery at each interval. Called A. Piccuas to update. Agreed to see how far we get today at PDI-4 and move on to next location tomorrow

1235 Cascade lunch

Rite in the Rain

Location Old Bethpage, NY Date 11/14/17

Project / Client Aluminum Louvre - NYSDEC

SVI sample collection

SVI-161-IA collect at 1151, final pressure: -4

SVI-161-1-55 end pressure -3, end time 12:50

SVI-161-DUP-55, end time: 1250 final pressure: -2

SVI-301-1-IA, end pressure -4, 12:17

SVI-301-1-55, end pressure -2, 11:45

SVI-301-4-OA, end pressure -2, 12:15

SVI-161-3-IA, end pressure -4, 1237

SVI-161-4-IA, end pressure -4, 1236

SVI-301-3-55, end pressure -3 12:30

SVI-301-2-55, end pressure -3, 11:47

SVI-301-3-IA, end pressure -4, 11:49

SVI-301-2-IA, end pressure -4, 1148

1450 Cascade pulled PDI-4 45-50 fts

30 inch recovery

10" tan sand, loose, medium sand

9" light brown, medium sand, dry

3" dark brown, medium sand, loose

8" light brown medium sand, dry

PID 0.0 ppm

Location Old Bethpage, NY Date 11/14/17

Project / Client Aluminum Louvre, NYSDEC

50-55, recovery 36", PID 0.0 ppm

18" loose, dry, medium brown sand

12" firm, sand with silt

4" marbled silty sand, firm

5" loose, dry brown fine sand

Collect SVI-161-3-55, end time: 1545 end pressure: -12

SVI-161-4-55, end 1546, end pressure -10

55-60, recovery 40", PID 0.1 ppm @ 58'

tan and brown, sand, medium density, dry

1610 Cascade demobing

1700 CDM Smith & Cascade offsite

11/14/17

Rite in the Rain

Location Old Bethpage, NY Date 11/15/17

Project / Client Aluminum Louvre NYSDEC
Soil Boring

700 A. Rielly, E. Rosenzweig (CDMS) and Cascade on site
Weather: partly cloudy, 38°F
715 Dylan (Cascade) notified us that they do not have equipment for groundwater sampling. Their PM was not aware it was needed and did not have equipment for sonic rig. Dylan's PM contacting J. Diamond of Cascade to determine how to proceed.
720 Cascade topping off grout @ PDI-4
805 Mobilizing to 301 Winding Rd, 4 soil drums staged in 161 Bethpage yard
920 A. Piciucas to call J. Diamond about groundwater sampling
940 Cascade to bring out 2 inch well casing to use to collect gw, also bringing more drums for water
950 Begin advancing PDI-2
E. Rosenzweig to hotel to pick up SUMMA Canisters
0-5 ft, recovery 1.5 ft, PID 0.0
dry, loose brown sand
5-10 ft, recovery 3 ft PID 0.0

Location Old Bethpage, NY Date 11/15/17

Project / Client Former Aluminum Louvre/NYSDEC
Soil Boring

7-8 ft, moist, brown, silty sand with some gravel, firm
8-10 ft, dry, loose, medium sand, light to medium brown
10-15 ft, recovery 3.0 ft, PID 0.0
12-13 brown sand, black silty sand outside and "marble", medium firm
13-15 loose, dry, light brown sand
15-20 ft, recovery 4 ft, PID 0.0
16-17 brown, medium dense, sand, silt, clayey silt at 16.5-17.0
17-19 stiff, gray clay, silty clay
19-20 loose, dry, light to med brown sand
20-25 ft Recovery 42" PID 0.0
11 Brown M-SAND
5" light Brown M-SAND
↓ Orangish Brown M-SAND
25-30 Recovery 36" PID 0.0
9" Grey F-M SAND
↓ Orangish Brown M SAND
30-35' Recovery 38" PID 0.0
10" Grey F-M SAND
9" Brown F-SAND

E Rosenzweig 11/15/17

Rite in the Rain

Location Old Bethpage, NY Date 11/15/17-11/16

Project / Client Former Aluminum Louvre/NYSDEC

Soil Boring

↓ Orangish Brown M SAND

35-40 Recovery 26" PID 0.0

↓ Orangish Brown M-SAND

40-45 Recovery: 36" PID 0.0

13" Light brown M-SAND

8" Reddish brown M-SAND

↓ Brown F-M SAND

1430 Drilling becoming very difficult from 45-50' BGS

45-50' Recovery 36" PID 0.2 ppm

12" Brown M SAND

6" Brown VF-F SAND

↓ ORangish Brown M-SAND

50-55' No recovery

55-60 No recovery

60-65 Recovery 42" PID 0.0

42" Dark Gray SILTY CLAY

65-70 Recovery 48" PID 0.0

↓ Brown F-M SAND

▼ Wet @ 70' BGS

70-75, recovery 41" PID 0.0

20" orange brown F-M sand, moist

21" light brown F-M sand, moist

Location Old Bethpage, NY Date 11/16/17

Project / Client Former Aluminum Louvre/NYSDEC

700 E. Rosenzweig & A. Reilly (COM) on site.

Weather: rain, 52°F

725 Cascade on site

Continued boring PDI-2 on previous page beginning at 60-65 ft bgs interval

Cascade may have larger rig on site tomorrow (Friday) to finish in time.

1130 E. Rosenzweig off site to Albany

1140 Lunch

1220 Back on site

Continue to 80 ft bgs at PDI-2

rods are stuck, working to retrieve

1330 Able to pull up rods

75-80 ft, recovery 5 ft, PID 0.0

3" wet silty clay

↓ gray firm clay to 80 ft

1400 Collect PDI-2-SO-75.5-20171116

1405 Collect FD-01-SO-20171116

1415 Collect PDI-2-SO-76.5-20171116

1420 Collect PDI-2-GW-72-75-20171116

1430 Collect PDI-2-SO-77.5-20171116 + MS/MSD

Shake test at ~75.5 – not present

Rite in the Rain

Location Old Bethpage, NY Date 11/16/17

Project / Client Aluminum Louvre, NYSDEC

1435 Demobing, sample preparation
Cascade bringing langer ng 11/17/17
to start/complete location PDI-1
Zebra is to drop off a forklift to
move poly tanks and items behind
301 Winding as neeess ary.
1615 Cascade offsite - need to return
to shop to get truck to load geoprob

Location Old Bethpage NY Date 11/17/17

Project / Client Former Aluminum Louvre

700 A. Reilly (Conk Smith) onsite
Cascade (two personnel) on site
Weather: clear, 46°F
Cascade ng XL max 170 on site
705 Mobilize to PDI-1, need to use
fork lift to move back poly tanks
900 Begin advancing
0-5 ft, only ~1 ft recovery
sandy soil, gravel.
5-10 recovery 1 ft, wet,
brown silty sand, PID 0.0
915 Collect PDI-1-SO-8-20171117
for TOC
10-15 ft, recovery 30", PID 0.0
wet, brown, silty sand
930 Collect PDI-1-SO-12-20171117
935 PDI-SO-DUP-20171117 for TOC
15-20 ft, recovery 35 inches, PID 0.0
12 inches brown m sand, moist
18 inches brown/dark gray silty clay
5 inches loose, light brown sand
940 Collect PDI-1-SO-16-20171117 TOC
940 Rig experiencing mechanical issues,
called mechanic to come to site

Rite in the Rain

Location Old Bethpage, NY Date 11/7/17

Project / Client Aluminum Louvre, NYSDEC

1005 Cascade/ATJT mechanic on site
1050 Resume drilling
20-25 ft bgs, recovery ~ 52"
brown silty sand, wet
1100 Collect PDI-1-50-20-20171117
+MS/MSD for TOC
1105 Collect PDI-1-50-24-20171117
25-30 ft, recovery 41 inches, PID 2.7@29'
6" orange brown loose sand
8" dense, black granular with sand inside
↓ loose light and dark brown sand
30-35, recovery 40", PID 21.0 ppm at 34'
light brown to brown fine sand, dry
dark material at location of PID hit
35-40 recovery 38" PID 0.0
light brown to brown sand, some rock, gravel, dry, very loose
40-45 no recovery
45-50 recovery 36" PID 0.0
brown, m sand, moist
50-55, recovery 48" PID 0.0
brown, med sand, dry, loose
55-60, recovery 36" PID 1.5 ppm at 59'

Location Date

Project / Client

~1 ft of orange brown sand, loose, dry to moist, odor of "electrical burning"
2 ft light brown sand with some medium rock, dry
60-65, recovery 50 in, PID 0.0
2 ft light brown med sand, dry loose
↓ orange brown sand, hard packed some dark silty layers
65-70, recovery 5 ft PID 1.2 @ 67'
68-68 dense orange brown and dark gray silty, clayey, slough outside of core
68-70 dark black, crumbly, dense material
70-75 recovery 48" PID 0.0
brown m sand, wet, water table ~70
75-80 recovery 48" PID 0.0
dense, brown and orange brown sand moist to wet, bottom ~2" hard clay silty clay
80-85 ft, recovery 4 ft, PID 0.0
81-81.5 orange brown sand
81.5-85 brown/gray stiff clay
85-90, recovery 4.5 ft PID 0.0
gray/brown clay to ~88 ft, then orange brown sand

Rite in the Rain

Location _____ Date 11/17/17

Project / Client _____

1330	Collect PDI-1-75-20171117 for VOC, 1,4-dioxane + MS/MSD
1345	Collect PDI-1-50-81.5-20171117
1350	Collect PDI-1-50-82.5-20171117
1355	Collect PDI-1-50-83.5-20171117

NAPL shake test at 81-81.5 ft - not present

1400. Begin to demob, grout borehole storing drums with soil outside gate north side of 301 Winding Rd - 3

1600 CAM and Cascade offsite A. Reilly to Albany

Location Old Bethpage, NY Date 1/17/18

Project / Client FAL / NYS DEC

Well Gauge / Drum Removal

1015 E Rosenzweig on site from CDM Smith to meet w/ Brookside to Remove drums @ 301 Winding Rd & 161 Sweet Hollow - Old Bethpage Rd

- Weather Rain ≈ 35°

Well id	DTW	DTB	Dia
MW-161-1-D	75.01	≈100	1"
MW-161-1-I	74.06	93.60	1"
MW-161-1-S	Dry	68.70	1"
MW-161-2-D	71.28	>100	1"
MW-161-3-I	71.30	94.50	1"
MW-161-2-S	DRY	66.83	1"
MW-301-1-183	68.02	69.60	2"
MW-301-1-D	67.99	>100	1"
MW-301-1-I	67.80	93.90	1"
MW-301-1-S	DRY	65.25	1"
MW-301-2-D	Covered w/ ice/water		
MW-301-2-I	Couldn't open		
MW-301-3-D	Paved over		
MW-301-3-I	Coulant Open,		
MW-301-4-D	Well Cover Rusted		
MW-301-4-I	on Couldn't Remove		
MW-301-4-S	Bolts		

Rite in the Rain

Location Old Bethpage, NY Date 1/27/18

Project / Client FAL / NYSDEC

Well Gauging / IDW Pickup

1035 Brookside Environmental on site
- Removed 3 Solid Drums from 301 Winding Rd
- Removed 4 Solid Drums From 161 Sweet Hollow Bethpage Rd.

1235 Completed Gauging off Site

Note: MW-161-S missing 6" Well Cover

ER Remains

1/27/18

Location Old Bethpage NY Date Wed 6/13/18

Project / Client FAL/NYSDEC

0600 - F. Robinson on site
Mostly Cloudy 64°
0610 - Walked around site to get oriented
0630 - Jim Romano (Intellisea) on site : will move poly tanks
0635 - Colleen on site
Artie (NY Pump)
0720 - Cascade on site
Evan Moraitis Ryan Jackson
~~0800~~ - 0730 - H&S tailgate meeting
0800 - Moving tanks in back of 301
0820 - Starting at PDI-6 back corner of 301 Winding Rd.
0850 - Spoke to Army : sampling top of clay + black clay (14' + 16')
0900 - Sampled top of clay
PDI-6-SO-14-06132018
0905 PDI-6-SO-16-06132018 - Black clay
0910 PDI-DUP-SO-16-06132018 - Dup
0910 - Grouting borehole
0920 - Starting PDI-7, by Garage Door.
0940 - Sampling black clay (~20 ppm)
PDI-7-SO-17-06132018
0948 - 0950 - MS + MSD

Jake 6/13/18

Rite in the Rain

Location Old Bethpage NY Date Wed 6/13/18

Project / Client FAL / NYSDEC

0955. Starting PDI-8

1030. Sampling PDI-8-SO-17-06132018

1105. Setting up on PDI-9 (on concrete pad)

1110. Got through concrete!!

1146. Sampled: PDI-9-SO-17-06132018 top of clay layer.

1230. Leaving the site

6/13/18
Finished

Location Old Bethpage NY Date Thur 6/14/18

Project / Client FAL/NYSDEC

0660. A. Robinson on site: In front of 161 Bethpage-S.H. Road

0610. 2 1" wells: MW-161-I + MW-161-D. Gauged 161-D

DTW = 73.30 DTB = 93.80

0825. Back at FAL meeting w/ Patrick Magill Cascade ADT

0835. Walked around 301 Windy Rd Rig can fit into back area.

0900. Spoke to Atty @ NY Pwy 161 B-SW Road: Can get water from there and Patrick + I measured off 1st 2 drill points.

0820. Leaving the site

6/14/18
Finished

Rite in the Rain

Location Old Bethpage NY Date 6/18/18 MON

Project / Client FAL / NYSDEC

PDI-10

0550- AT + WBY office picking up 2 Bores of microbio sampling bottles

0615- F. Robinson on site

Pt. Cloudy 68°

0620- Sorting gear to dividing soil & water

0645- Calibrated Min. Rae 3000

Isobutylene = 100.3 ppm

0650- Patrick Magill (Cascade ADT) on site

0700- Alan Eichberg on site

0725- Dave Moon (ADT) on site Driller

0740- Drill Rig on site

German Torres (ADT)

0745- Geoprobe Sonic Drill XL Max Sonic Drill

0815- Setting up on PDI-10

0820- Going through asphalt then hand clearing to ~4'

0825- Cleared to 5'

0840- 1st Core 5-10'

0855- 10-20' only recovered 17"

1045- Recovered 20-30' - No clay #1 layer - having trouble w/ the rig. Keeps stalling out

1125- Drillers Going out to get hose/fittings to try and get rig going.

1225- Drillers back

Tk 6/18/18

Location Old Bethpage NY Date 6/18/18 MON

Project / Client FAL / NYSDEC

PDI-10

1235- Replaced a hose - working again.

1240- Called Test America Courier (Joe) Not today - tomorrow.

1300- Recovered 30-40' (PDI-10)

1330- Recovering 40-50' (PDI-10)

1415- A valve is making the noise They're concerned about

1420- Recovering PDI-10 ~~50-60'~~ 5055'

1440- Recovering PDI-10 55-60

1440- Clay #2 @ 56-57'

1450- Sample : PDI-10-50_57-06182018

1510 Calibrate YSI cond: 1.903 → 1.413
pH-4: 3.82 → 4.00
pH-7: 7.25 → 7.00
ORP: 230 → 240

1530 Sample PDI-10-WG-74-06182018

24.53°C	203.1 ORP
0.148 mS/cm	
6.65 DO mg/L	
6.04 pH	

1535- Collected sample by tubing & check Valve at bottom, collected @ 74'

1545- Pulled casing out of the GW

Tk

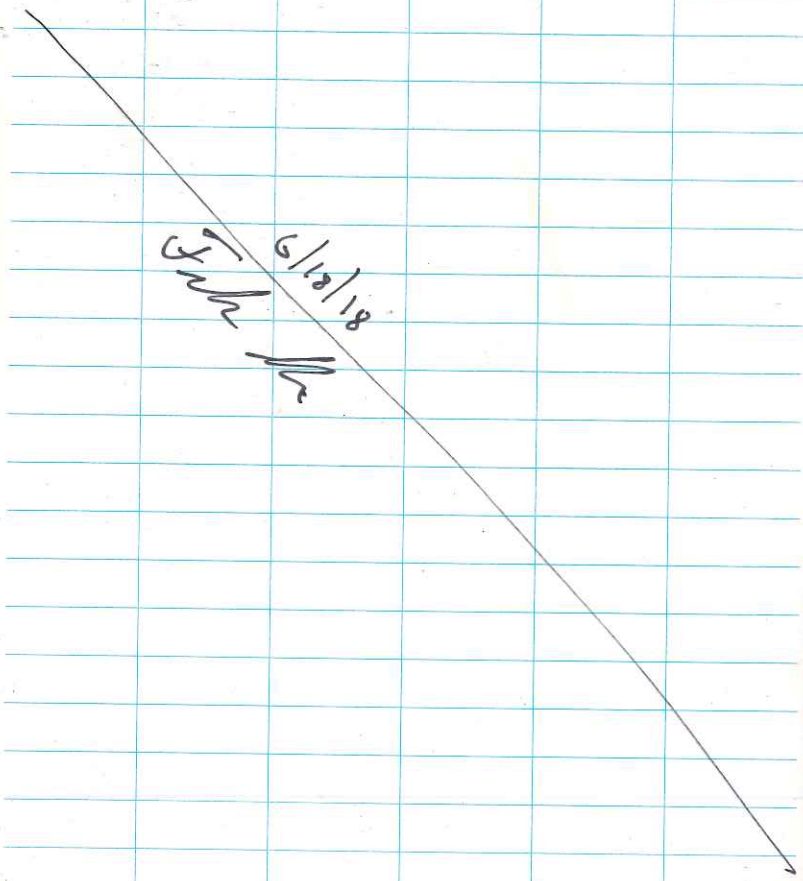
Rite in the Rain

Location Old Bethpage NY Date 6/18/18 (Mon)

Project / Client FAL/NYSDEC

PDI-10

1550 - Mixing Grout
1600 - Pumping grout into PDI-10 using 60' of tremie pipe
1605 - My muckers pulling casing out of the way
1630 - Moving rig out of the way
1700 Leaving the site



Location Old Bethpage NY Date 6/19/18 (Tues)

Project / Client FAL/NYSDEC

PDI-11

0630 - K. Robinson on site
Mostly Cloudy 77°
0635 - Calibrating MiniRae 3000
Ø = 0.0 100 ppm Isb. = 100.0
0700 - Drillers Dave, Patrick Artie LaRocca
0720 - H&S meeting
0730 - Calibrate YSI Cond: 1.395 mS/cm³ → 1.413 mS/cm³
pH4: 3.80 → 4.00
pH7: 7.33 → 7.00
ORP: 238.9 → 240.0
0740 - Setting up on PDI-11, hand cleared to 5'
0750 - Decon'ed w/ a pressure washer
0815 - Drilling 5-10'
0835 - Core 10-20'
0855 - Core 20-30'
0900 - No clay layer #1 @ ~ 20' (missing)
0920 - Clay @ ~ 30' ~ 6" thick
Core 30-40'
0950 - Core 40-50'
1005 - John Reeve onsite to lock @ NJ
1010 - Collected field Blank of check valve "FB-061920188"
1105 - Core PDI-11 50-60'

JC 6/19/18

Rite in the Rain

Location Old Bethpage NY Date 6/19/18 (Tues)

Project / Client FAL/NYSDEC

POI 11

1110 - No clay 50-60'
1130 - POI-11 60-70'
1135 - No clay layer #2 at this location
Spoke to Amy P. - go for water sample
1240 - Screen set @ 75' for water sample
1255 - Sampled POI-11 @ 75'
" POI-11-WG-75-06192018"
" POI-111-WG-75-06192018" Dup
@ 1300

27.18°C	6.13 pH
0.164 mS/cm	10.3 pH mV
81.0 DO%	190.5 ORP
6.34 DO mg/L	

1305 - Starting to Grout / 60' of temp pipe
1430 - Moving drums to staging area @ 301 Windy Rd.
1500 - Leaving the site

6/19/18
FR

Location Old Bethpage NY Date 6/20/18 (Wed)

Project / Client FAL/NYSDEC

POI-12

0630 - F. Robinson onsite
Mostly Cloudy 64°
0640 - Calibrated Mini Rae 3000
@ = 0.0 ppm 100 ppm isop. = 100.0 ppm
0715 - Drillers on site w/ replacement drill rig. Alan E. on site @ 0700
German Torres (Drillers)
Geoprobe Sonic 8140 LC
0720 - H+S meeting
0725 - Moving to POI-12
0730 Calibrate YSI Cond: 1.402 mS/cm → 1.413 mS/cm
pH4: 3.96 → 4.00
pH7: 6.93 → 7.00
ORP: 246.1 → 240.0
0805 - Starting @ POI-12
0820 - Hand Cleared to 5'
0830 - Core POI-12 5-10'
0845 - Core POI-12 10-15'
0855 Core POI-12 15-20' Clay #1: 19-20'
0905 - Core POI-12 20-25'
1040 - Core POI-12 35-40'
1115 - Core POI-12 40-45'
1130 - 1225 - Drillers lunch Break
1235 - Core POI-12 45-50

FR 6/20/18

Rite in the Rain

Location Old Bethpage NY Date Wed 6/20/18

Project / Client FAL / NYSDEC

PDI-12

1300. Core PDI-12 50-55'
1320. Core PDI-12 55-60' No clay
1355 Core PDI-12 60-65 No clay & wet. Will take wtr sample @ 75'
1400 - Collected field Blank of check valve " PDI-FB-06202018"
1430. Sampled PDI-12 @ 75' + MS/MSD
PDI-12-WG-75-062020 18
PDI-12MS-WG-75-06202018
PDI-12MSD WG-75-06202018
Groundwater Quality measurements
27.31°C 7.49 pH
0.350 mS/cm 140.8 ORP
4.87 DO mg/L
1525- All casing out of the borehole & grouting borehole (w/ tremie pipe)
1620. Helper (Archie) got some sand in his eye. used eyewash (saline) to get sand out
1625 - Helper eye OK - not going to report it to his company
1650. Moving drum to 301 winding Rd storage area.
1700. Leaving the site

6/20/18

Location Old Bethpage NY Date Thurs 6/21/18

Project / Client FAL / NYSDEC

PDI-13

0630. F. Robinson on site
Light Rain 66°
- ADT on site already w/ Rig
0640 Calibrated mini Rae 3000
Zero = 0.0 ppm 100 ppm lab = 100.1 ppm
0655. Pat on site w/ Support Truck
0700 - AJ E. on site
0730. 17+S tailgate
0750 Calibrate YSI Cond: ~~1.398~~ AE 1.402 → 1.413 mS/cm
PH4: 3.98 → 4.00
pH7: 7.06 → 7.00
ORP: 240.2 → 240.9
0810. Hand cleared to 5' f PDI-13
0855. PDI-13 Core 5-10'
0940. PDI-13 core 20-30'
0945. Some clay @ 22' (~4") ~~not clay #1~~ JK
Maybe clay layer #1 Grey clay
1000. Delay to fill up water tank: water not filling up tank as in previous days.
1030. Pine Delivered the Water Pump and Now-1 thru 8 drum labels.
1040 - Water Press. low due to leak in service line. Will use water from the tank in the back

JK 6/21/18

Rite in the Rain

Location Old Bethpage NY Date Thurs 6/21/18

Project / Client EAL / NYSDEC

PDI-13

1100 - PDI-13 Core 30-40'

1125 - PDI-13 Core 40-50'

1205 - PDI-13 core 50-60' ~~No~~ Tl clay

clay 52.5'

1220 - Collected Sample of clay

" PDI-13-50-53-06212018 "

" PDI-113-50-53-06212018 " @ 1230

1235 - Collected field Blank of check valve

" PDI-FB-06212018 "

1245 - PDI-13 Core 60-70 Lignite

62-67' Lignite

1320 - Sampled GW PDI-13 fm 75'

" PDI-13-WG-75-06212018 "

1325 - Courier Picked up Samples fm Yesterday & today

1330 Collect Groundwater Parameters

21.66 °C 6.09 pH

0.159 mS/cm 47.0 ORP

6.40 DO mg/L

1410 - Alan + I Leave the site: both have to be home early. ATO clean up + move down.

1500 - Drillers grouted PDI-13 borehole

6/21/18

Fish

Location Old Bethpage NY Date Fri 6/22/18

Project / Client EAL / NYSDEC

PDI-14

0630 - C. Robinson on site

Mostly Cloudy 64°

0640 - Calibrated Min. Rae 3000

Ø = 0.0 100 ppm Isobutylene = 100.2 ppm

0715 - Dave Moon, Pat, Dylan + Alan (Con)

0730 - Spoke to Autry (NY Pens) will be repairing water leak, water will be off for several hours. ADT brought more water into w/ them

0740 - H+S to Igate.

0750 Calibrate YSI Cond 1.417 mS/cm → 1.413 mS/cm

pH4: 4.07 → 4.00

pH7: 6.95 → 7.00

ORP: 240.7 → 240.0

0806 - Moved to PDI-14 and hand clearing to 5'

0820 - PDI-14 Core 5-10'

0840 - PDI-14 Core 10-20'

0900 - Collected field blank of check valve

" PDI-FB-06222018 "

0905 - PDI-14 Core 20-30' clay #1 at 21'

0930 - PDI-14 Core 30-40'

0955 - PDI-14 Core 40-50'

Fish 6/22/18

Rite in the Rain

Location Old Bethpage NY Date 6/22/18 FRI

Project / Client FAL / NYSDEC

PDI-14

1035 - PDI-14 Core 50-60'

Clay #2 54.5 ~ 56.5'

1055 - Sampled Clay:

"PDI-14-50-55-06222018" w/ MS/MSD

1100 - PDI-14 Core 60-70

Lignite ~6' !!

1115 - Sampled GW fm 75'

"PDI-14-WG-75-06222018"

1120 Water Quality measurements

24.24°C 5.26 pH

0.450 mS/cm³ 7.1 ORP

6.95 DO mg/L

1210 - Strategy to grout borehole

1240 - Moving drums to staging area @ 201 Woody Rd

1310 - Finished Grouting / will top off on Monday

1320 - TA Cowan pickup samples

1345 - Leaving the site

6/22/18

Location Old Bethpage NY Date 6/25/18 MON

Project / Client FAL/NYSDEC

PDI-15

0630 - F. Robinson on site

Clear 65°

0640 - Calibrated MiniRae 3000

Ø = 0.0 ppm 100ppm Isobuty. = 100.1 ppm

0700 : Alan E. (Cow) Dave Nunn + Patric M (ADT)

- H&S tailgate Meeting

720 Calibrate YSI cond: 1.406 mS/cm³ → 1.413 mS/cm³

pH4: 4.12 → 4.00

pH7: 6.98 → 7.00

ORP: 233.5 → 240.0

0730 - Setting up on PDI-15

0745 - Hand clearing to 5'

0820 - PDI-15 Core 5-10'

0930 - Collected field blank of decontamination "PDI-FB-06252018"

0840 - PDI-15 Core 10-20'

0900 - PDI-15 Core 20-30'

3" clay layer ~ 26.5'

0920 - PDI-15 Core 30-40'

0940 - PDI-15 Core 40-50'

1010 - PDI-15 Core 50-60 [25.5-55.5'

Clay layer #2

1020 JR

JR 6/26/18

Rite in the Rain

Location Old Bethpage NY Date 6/25/18 (Mon)

Project / Client FAL / NYSDEC

PDI-15

1020 - Sampled SB-15 clay layer #2 52'
" PDI-15-50.52-06252018"
1055. PDI-15 core 60-70'
Lignite 69-70'
1125- Sampled GW @ 75'
" PDI-15WG-75-06252018"
Groundwater Parameters
23.97°C 6.06 pH
0.136 mS/cm3 ~~DO~~ NE
5.62 DO mg/L 97.0 ORP
1220 - Test American courier picked up todays samples.
1300. Grouting the borehole + pulling the casing. tremie pipe to 60'
1400. Leave the site

6/27/18
FJR

Location Old Bethpage NY Date 6/26/18 (Tues)

Project / Client FAL / NYSDEC

PDI-16

0525- K. Robinson onsite
Pt. Cloudy 61°
0540- Setting up to sample MW-161-1-I Pines Waterra pump: tighting nut to secure hose would not tighten so cannot use it will need replacment
0550- Calibrated Mini-Rae 3000
Ø = 0.0 ppm Isob. = 100.0 ppm
0700- At 301 Winding Rd. Marked out 3 Angle borings w/ Alan + Shaun Dunn (Antler) and Jim (Fan building) have to move 2 trailers in alley and 1 taker truck. One location cannot be done due to drilling under a drainage structure.
0745 Calibrate YSI cond: 1.385 mS/cm → 1.413 mS/cm
pH 4: 3.80 → 4.00
pH 7: 6.89 → 7.00
ORP: 246.7 → 240.0
0750. Hess tailgate (actually @ 0720)
0805. Hand clearing PDI-16 to 5'
0830- Collected field blank of check valve
0835. PDI-16 Core 10-20'
0855. PDI-16 Core ~~30-40~~ 20-30'
0915. PDI-16 Core 30-40'

JR 6/26/18

Rite in the Rain

Location Old Bethpage NY Date 6/26/18 (Tue)

Project / Client FAL/NYSDEC

PDI-16 / Sample MW-161-I-I

0935- PDI-16 Core 40.50'
280 ppm @ ~43'
0955- PDI-16 core 50-60'
Clay #2 layer @ 55-56'
1005- Collected VOC Sample @ 55'
"PDI-16-50-55-06262018"
1010- PDI-16 core 60-70'
lignite 65-66'
1030- Sampled PDI-16 @ 75' for VOC's
"PDI-16-W6-75-06262018"
Groundwater Sample parameters
21.39°C 5.93 pH
0.121 m^3/cm^3 58.6 ORP
5.15 DO mg/L
1100- Purged 2.5 Gal (3x Vol) from
MW-161-I-I using tubing & a check valve
1110- Sampled MW-161-I-I
"PDI-MW-161-I-I-06262018"
for VOC PFAS & 8270 Dioxins
Groundwater Parameters
20.86°C 5.21 pH
0.218 mS/cm 189.9 ORP
6.86 DO

FAL 6/26/18

Location Old Bethpage NY Date 6/26/18 (Tue)

Project / Client FAL/NYSDEC

PDI-16

1130 Grouting PDI-16
1200 TA Courier picked up today Samples
1305- ADT going to abandon MW we sampled MW-161-I-I (95' Deep)
1345- Finished grouting MW.
1415- Unload Drums at staging area
1450- Patch PDI-16 with Concrete
1500 All personnel off site

FAL

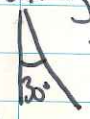
Rite in the Rain

Location Old Bethpage NY Date Wed 6/27/18

Project / Client FAL/NYSDEC

PDI-17

0610- E. Robinson on site Pt. Cloudy 66°
0625 Calibrated MiniRae 3000
Zero = 0.0 ppm 100 ppm Isob. = 100.0 ppm
0630- Moving gear to the back of 301 Windy Rd
0710 Calibrate YSI cond: 1.404 $\frac{mS}{cm}$ → 1.413 $\frac{mS}{cm}$
pH4: 4.00 → 4.00
pH7: 7.17 → 7.00
ORP: 241.7 → 240.0
0740 Moving Rig from around the corner to 301
0800- After refueling: moving rig to back area of 301.
0820- Setting up on PDI-17 in alley.
Angle drilling @ 30° for vehicle to hit the clay 2 layer.



0900 Starting to drill PDI-17 @ 30°
0905- Pipe picked up Waterra Pump + water level ind.
0920 Called field Blank of check vale
"PDI-FB-06272018"
0940- PDI-17 Core 5-10'
1010- PDI-17 Core 10-20'
1030- PDI-17 Core 20-30'
1055 PDI-17 Core 30-40'
1115- PDI-17 Core 40-50'
T/C 6/27/18

Location Old Bethpage NY Date Wed 6/27/18

Project / Client FAL/NYSDEC

PDI-17

1145- PDI-17 Core 50-60'
1205- PDI-17 Core 60-70'
Clay 2 @ 60-62'
1215- Sampled clay layer #2
"PDI-17-50-60-06272018" VOC + Fe
"PDI-17-50-62-06272018 Fe
1320- Sampled PDI-17 @ 75' VOC's
"PDI-17-WG-75-06272018
Groundwater Quality measurements
10.68°C 6.86 pH
1.69 $\frac{mS}{cm}$ 126.5 ORP
8.83 DO $\frac{mg}{L}$
1325- TA courier picked up samples
1330- Gravity PDI-17
1430- Leaving the site

6/27/18
T/C

Rite in the Rain

Location Old Bethpage NY Date Thurs 6/28/18

Project / Client FAL/ NYSDEC

PDI-18

0600- F. Robins on site
Light Rain 70°
0610- Calibrating MiniRae 3000
Zero = 0.0 ppm 100 ppm Isob = 99.3 ppm
0625- Marked out 2 new Angle Drilling locations
0635- Showing Jim what has to be moved for the 2 new locations
0710- ADT on site + Atlas E (EDA)
0715- H+S tailgate
0730- Thunder + lightning wait 30 min
0830 Calibrate YSI
Cond: 1.410 mS/cm² → 1.413 mS/cm²
pH4: 4.05 pH → 4.00 pH
pH7: 6.98 pH → 7.00 pH
ORP: 239.0 → 240.0
0850- No thunder or lightning in 30 min, can start.
0855- Starting @ PDI-18, vehicle boring 0-20'
0900 PDI-18 core 0-10'
0910- PDI-18 core 10-20' no clay
0925- PDI-18 core 20-30' clay 20-21'
0935- Collected Sample of clay #1
"PDI-18-SO-21-06282018"
- Moving to PDI-19

FR 6/28/18

Location Old Bethpage NY Date Thurs 6/28/18

Project / Client FAL/ NYSDEC

PDI-19

0940- Hand cleared to 5' @ PDI-19
& drilling at 30°
1025- PDI-19 5-10'
1040 PDI-19 10-20'
1055- PDI-19- 20-30'
1115- PDI-19- 30-40'
1125- Rig broke down, hose?
1145- Broke a belt, fixed it, back working
1200 PDI-19- 40-50'-
1210- Taking Break
1245- Canceled Courier (JTA) pickup, not ready only 1 sample.
1315- PDI-19 50-60'
1405- PDI-19 60-70' no clay! Going to 80'
1425- PDI-19 70-80' clay 2 79-80'
1430- Sampled Top of clay VOC + Fe
" PDI-19-SO-79-06282018"
1435- Bottom of clay Fe
"PDI-19-SO-80-06282018"
1445- Collected water Sample for 85'
"PDI-19-WG-85-06282018"
Groundwater parameters
26.77°C 5.39 DO mg/L 140.1 ORP
0.135 mS/cm³ 6.31 pH

FR 6/28/18

Rite in the Rain

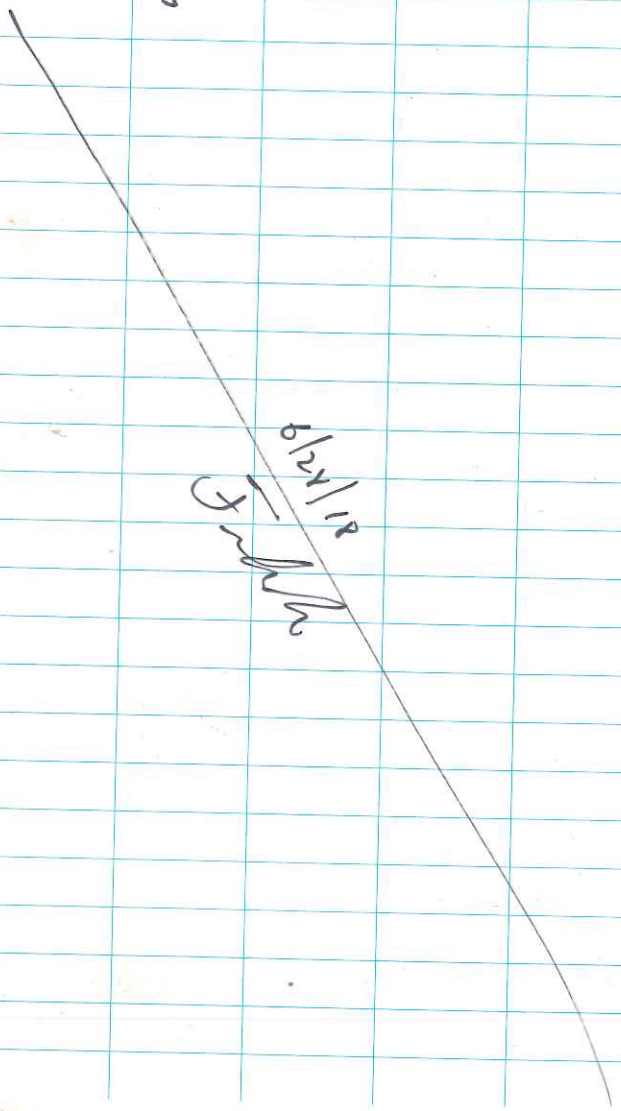
Location Old Bethpage NY Date Thurs 6/28/18

Project / Client FAL/ NYSDEC

PDI-19

1450 - Grouting & Pulling Casing

1600 - Leaving the site



Location Old Bethpage NY Date FRI 6/29/18

Project / Client FAL/ NYSDEC

PDI-20

0615 - F. Robison on site

Clear 70°

0635 - Calibrated MiniRae 3000

Zero = 0.0 ppm 100 ppm Isobutylene = 100.1 ppm

0705 - Dave & Pat (ADT) on site w/ Alan (Lon)

0720 - H+S tailgate

730 Calibrate YSI Cond. 1.415 → 1.413 mS/cm

pH4: 3.97 → 4.00

pH7: 7.01 → 7.00

ORP: 240.2 → 240.9

0735 - Setting up on PDI-20 30° & drilling

0750 - Hand clearing to 5'

0815 - PDI-20 Core 5-10'

0830 - PDI-20 Core 10-20'

0850 PDI-20 Core 20-30'

clay 1 24-25'

0915 - Collected field blank of check valve "PDI-FB-0629 2018"

0925 - PDI-20 Core 30-40'

0940 - Drilling water coming up under casing ~15' from rig.

0945 - PDI-20 Core 40-50'

0955 - Moved a tank, water coming up from a MW that was under the tank

Tom Ri

Rite in the Rain

Location Old Bethpage NY Date FRI 6/29/18

Project / Client FAL/NYSDEC

PDI-20

1010- Seems to be stuck, not advancing or rotating.
1020- Stuck due to a sand layer
1030- Waiting for water tank to fill up
1045- Starting to drill again: water coming out of MW again
1055- PDI-20 Core 50-60
- Water coming out around the pad of another well ~ 8' away from drilling
1125- PDI-20 Core 60-70'
No clay going to 80'
1140- PDI-20 70-80'
Clay 73-74'
1150- Collected clay sample @ 73': VOC + Fe
" PDI-20-50-73-06292018" Top of clay
1155- Collected Fe sample bottom of clay
"PDI-20-54-74-06292018"
Contact w/ lignite layer.
1200- Collecting GW VOC sample @ 85'
"PDI-20-WG-85-0629-2018"
Groundwater parameters
25.82°C 1.84 DO mg/L -115.0 ORP
0.163 mS/cm³ 6.73 pH
6/29/18
FR

Location Old Bethpage NY Date FRI 6/29/18

Project / Client FAL/NYSDEC

1310- Grouting PDI-20 + pulling casing.
1345- TA Courier picked up Coyler
1400- Abandoned MW-301-S,
Total depth 66' filling w/ Grout to the surface
1415- Abandoned MW-3 filling w/ Grout down to 60'
1500- Leaving the site

6/29/18
Finished

Rite in the Rain

Location Old Bethpage NY Date 7/2/18 MW

Project / Client EAL / NYSDEC

MW-161-35

0630 - K. Robinson on site
Hazy 75°
0700 - Drew + Pat (ADT) + Alan (Con) on site + Daniel Johnson (ADT)
0730 - Went over to 161, told Artie we'll be drilling today + tomorrow. Said to watch out for CCTV Conduit between building.
0735 - Marked location of "MW-161-35"
0740 - Asked one of the NY Paving workers to move vehicles out of the way of the work location.
0745 - Well: Screen 65-75' 2" #10 slot
0750 - Moving drums from back of 301 to front drum staging area.
0715 - Hrs tailgate: Emphasized today, heat / humidity: drink plenty of fluids, take frequent breaks + watch each other for signs of heat distress.
0825 - Drum Inventory so far: 22 water + 15 soil = (37)
0830 - Alot of traffic on Winding Rd: waiting to move rig around to NY Paving.
0835 - Moving to NY Paving.
0900 - Drilling @ MW-161-35 - cleared to 5'

T K M 7/2/18

Location Old Bethpage NY Date 7/2/18 MW

Project / Client EAL / NYSDEC

MW-161-35

0945 The drillers are at 30' bgs and they run out of water to drill. Stop drilling and wait for the water container to fill
1000 Continue Drilling at MW-161-35
1030 The hose gets clogged for taking the water out of the mud pan the drillers stop at 55' bgs to address this issue
1125 - Pipe picked up XSI + Mini Rae 3000
1130 - Filling up water tank
1135 - Drilling down to 75'
1140 - Installing well material:
10' of 10 slot screen 2" PVC sched 40 w/ 65' of #40 sched 40 riser (2")
1145 - Installing sand pack #1 Filpro
1200 #1 Sand 62-75' (3' above top of screen)
1205 - Well seal (Bentone chips) to 56-62'
1305 - Starting to mix grout
1310 - Tremie pipe to 50'
1330 - Finished Grouting / Pulling Casing
1340 - All casing out of the borehole
1350 - Mixing more Grout
1405 - Cleaning up.
1430 - Leaving the site

T K M 7/2/18

Rite in the Rain

Location Old Bethpage NY Date Tues 7/3/18

Project / Client FAL/NYSDEC

MW-161-45

0630- E. Robinson on site
Overcast 77°
0645- Marked out location of MW-161-45 22' N & 7' E of MW-161-35
0715- ADT on site: Dave & Pat
0735- Moving from MW-161-3 to -4
0740- Hand clearing to 5'
0745- MW-161-35 DTW = 60.0'
0750- H+S tailgate
0805- Starting to drill to 75'
0815- Took water level close to working where we're drilling: DTW ~ 70' (SW direction)
0830- At 25'
0850- At 50'
0910- At 75', see lignite in the cuttings
0945- MW-161-45 well material installed 10' of 10 slot 2" sched 40 PVC w/ 2" sched 40 riser pipe casing.
0950- Adding #1 Filter Sand pack.
1015- Sand pack to 62' (62-75')
1020- Adding well seal, bentonite chips. "Hole Plug" to 58' (58-62')
1035- Installing grout w/ tremie pipe
1040- Pulling casing

7/3/18

Location Old Bethpage NY Date Tues 7/3/18

Project / Client FAL/NYSDEC

MW-161-45

1100 cleaning up
1200- Moved Rig out of the way to continue cleaning up.
1250- Moving drums to 301 Winding Rd staging area.
Drum Inventory: 28 water
19 Soil
47 total
1330- Starting to install pads
1500- Pads installed / leaving the site

7/3/18

Rite in the Rain

Location Old Bethpage NY Date Thurs 7/5/18

Project / Client FAL / NYSDEC

0630 - F. Robinson onsite
Pt. Cloudy 77°
0645 - Dave Moon (AOT-Cascade) on sit for development of 2 new MW's.
0710 - At New MW's location:
0715 - Starting @ MW-161-35
0720 - MW-35 DTW = 65.90
0727 - Starting to develop 3s
0730 - Stopped Pumping. Went dry
0733 - Pumping at a slow rate now
0730 - Turbity - overrange
Pumping @ 1 l/min
0747 - Surging Pump
0750 - Turb = 1821 NTU's.
- Shut Pump off to recharge
0800 - Pump back on DTW = 69.60'
0810 - Pumping @ 1.1 l/min turb = 2-3000 NTU's.
0815 - 862 NTU - Surging again
0825 - 105 NTU's - Surging again
0835 - Pumping Better now 1.5 l/min
0840 - Surged again
0850 - Pump Rate 1.5 l/min turb = 86 NTU's.
0855 - 62.1 NTU's.
0900 - Turb = 52.3 NTU's

FL 7/5/18

Location Old Bethpage NY Date Thurs 7/5/18

Project / Client FAL/NYSDEC

0903 - 49.9 NTU's. !!!
0905 Turb = 48.8 NTU's.
- Stopped pumps - pumped ~ 25 Gallons.
0910 - MW-161-45 DTW = 64.90
0912 - Starting to pump 45
0917 - Pumping @ 1.7 l/min; turb = 3,042 NTU's.
0920 - Surging pump
0930 - Turb = 39.4 NTUs slightly again
0940 - Pumps @ 1.7 l/min turb 9.12 NTU's.
Surging again
0942 - MW-161-45 final DTW = 68.40'
after recharging.
0945 - Turb = 38.8 NTU's.
0950 - Turb = 42.0 NTU's Flow = 1.6 l/min
0955 - Turb = 11.9 NTU's
1000 - Final Turb = 7.21 NTU's. !!!
Pumped ~ 25 Gallons Pump off
1005 - Cleaning up - 1 drum of Devel. water
1010 - MW-161-45 Final DTW = 68.75'
1030 - Moving down to 301 Winding Rd.
1100 - Leaving the site

7/5/18
FL

Rite in the Rain

Location Old Bethpage, NY Date 7/23/18

Project / Client FAL / NYSDEC

*73°F light rain - modified level D + A HARROLD.

0745 L. ESTRADA (CDM SMITH) + GREG FOURNIER (AGS) ONSITE.

0800 Spoke with Art Bruno (NY PAVING) tenant in 161 Bethpage Sweet Hollow Rd. Showed us the first mechanics bay in the southeast corner of building. the bay has a truck and trailer with rigging equip. Truck and trailer will move August 22nd.

0830 Spoke with A. Picunas. Will likely abandon locations in first mechanics bay. Will attempt to clear locations/ area in second mechanics bay.

0845 Personnel: • CDM SMITH
LIA ESTRADA
AMANDA HARROLD
• Advanced Geological Serv.
GREG FOURNIER

PPE: Level D, modified

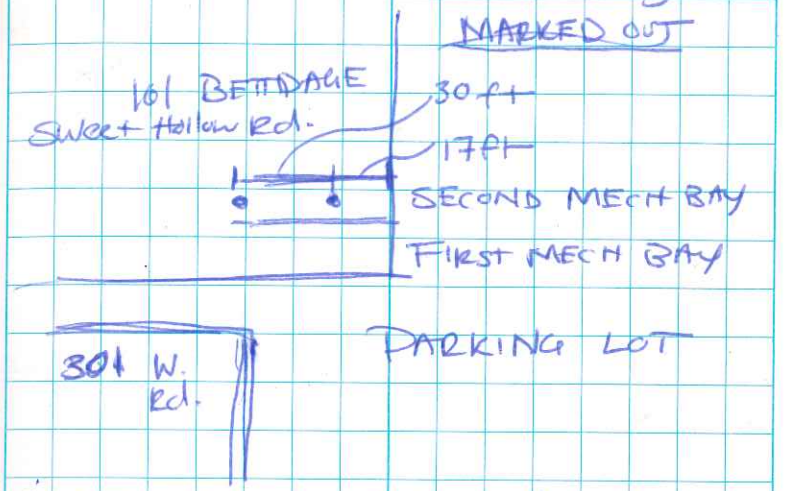
Weather: 73°F, humid, light rain

Lia Estrada

Location Old Bethpage, NY Date 7/23/18

Project / Client FAL / NYSDEC.

0845 Purpose: Clear indoor boring locations in 161 Bethpage Sweet Hollow Rd. and 301 Winding Rd.



0915 Mob to 301 Winding Rd. Intelligen Power. 516-672-0257

0920 Spoke with Sal - Chief Operating Officer (acting Cona Plant Manager). Site Contact: Jim Romano will no longer be the site contact. Jim has passed away unexpectedly. Sal will be the site contact going forward.

0930 Mob to 301 W. Rd. extension. for GPR markout

Lia Estrada 7/23/18

Rite in the Rain

Location Old Bethpage, NY Date 7/23/18

Project / Client ~~A~~FAL/NYSDEC

Angled Boring Supp PDI Locations.

10:15	PDI-17	40.76110457°N	73.44391822°W
		Elev: 55.05 m (MSL)	
10:20	PDI-18	40.76105873°N	73.44380025°W
		Elev: 47.66 m (MSL)	
10:22	PDI-19	40.76088789°N	73.44376355°W
		Elev: 42.58 m (MSL)	
10:25	PDI-20	40.76095847°N	73.44373042°W
		Elev: 43.07 m (MSL)	

Transect Boring Locations

10:45	PDI-16	40.76082826°N	73.44354180°W
		Elev: 42.32 m (MSL)	
10:50	PDI-10	40.76109926°N	73.44351284°W
		Elev: 43.93 m (MSL)	
10:52	PDI-11	40.76105010°N	73.44352893°W
		Elev: 45.07 m (MSL)	
10:55	PDI-12	40.76099563°N	73.44351569°W
		Elev: 47.15 m (MSL)	
10:56	PDI-13	40.76097473°N	73.44354219°W
		Elev: 45.29 m (MSL)	
10:58	PDI-14	40.76094097°N	73.44353723°W
		Elev: 41.56 m (MSL)	
11:00	PDI-15	40.76090039°N	73.44355763°W
		Elev: 43.11 m (MSL)	

7/23/18

Location Bethpage, NY Date 7/23/18

Project / Client FAL/NYSDEC

1115 L. Estrada + A. Harrold offsite for lunch.

Note: G. Fournier offsite at 10:00. Marked ~~at~~ two available locations in 301 Winding Rd. Only one will be utilized.

1205 L. ESTRADA and A. HARROLD TO HOME DEPOT TO PICK UP ROPE FOR SLUG TESTING. WILL BE BACK ONSITE TOMORROW.

7/23/18

Rite in the Rain

Location Bethpage, NY Date 7/24/18

Project / Client FAL / NYSDEC

0700 Personnel: ~~CDM SMITH~~ LIA ESTRADA
AMANDA ~~HARROLD~~

WEATHER: 79°F partly sunny
90% humidity.

PPE: LEVEL D, modified.

Purpose: ~~Dema~~ Perform VOC, PFAS + 1,4-Dioxane samplins of new monitoring wells, MW-161-3 and MW-161-4. Slug testing will also be performed at these wells.

0715 - Opened MW-161-4 in preparation for sampling activities.
PID: 0.4 ppm
DTW (ft bgs TIC): 68.65
DTB (ft bgs TIC): 74.36
Only have 100 ft of ½" outer diameter tubing - contacted Pine to have additional 100ft of ⅜" outer diameter tubing for MW-161-3 sampling - might not be delivered until tomorrow.

0745 - Challenges with Wattera Pump ; ½" OD tubing pumping

0800 - MW-161-3 opened
PID: 0.4 ppm

7/24/18

Location Old Bethpage, NY Date 7/24/18

Project / Client FAL / NYSDEC

MW-161-4

DTW (ft bgs TIC): 69.65
DTB (ft bgs TIC): ~~75.92~~ 75.92

0915 - Hand pumped until steady water flow
Connect Wattera Pump and PID

0920 - Start well development of MW-161-4

1010 - MW-161-4 stabilized
10.25 L purged
DTW (ft bgs TIC): 69.01
19.80 °C
6.46 pH
187 mV Redox Potential
0.386 mS/cm Specific Cond.
42.3 NTU Turbidity
8.83 mg/L Dissolved Oxygen
Sampled MW-161-4 for VOCs, 1,4-Dioxane and PFAS (MW-161-4-20180724)

1015 - Duplicate sample of MW-161-4 for VOCs, 1,4-Dioxane and PFAS (MW-1161-4-20180724)

1020 - Stopped pumping from MW-161-4

1145 - Trip Blank

1215 - L. Estrada and A. Harrold offsite to buy ice for sample coolers

1245 - L. Estrada and A. Harrold back onsite to start slug testing at MW-161-4

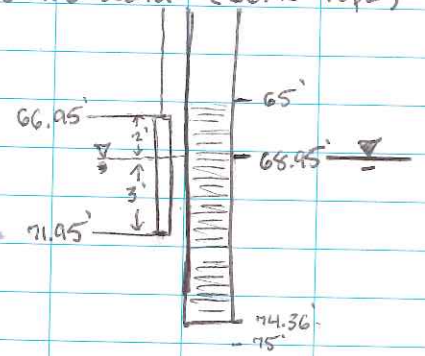
7/24/18

Rite in the Rain

Location OLD BETHPAGE, NY Date 7/24/18

Project / Client FAL / NYSDEC

1300 - MW-161-4
DTW (ft bgs TIC) : 68.95
Only about 5.5 feet of water in well, therefore will only lower the slug 3 feet into the water (66.95' rope)



1330 - Falling Head Slug Test
DTW (ft bgs TIC) : 68.94
Let stabilize with slug in well
1415 - Rising Head Slug Test
1440 - Stabilized with slug out of well
DTW (ft bgs TIC) : 68.94
1500 - Stabilized with slug in well
Rising Head Slug Test 2
1515 - Stabilized with slug out of well
DTW (ft bgs TIC) : 68.92
1545 - Cleaned up and L. Estrada and A. Harrold left site. Will be back onsite tomorrow

1100 - Collected tubing from COM Smith office

7/24/18

Location OLD BETHPAGE, NY Date 7/25/18

Project / Client FAL / NYSDEC

0730 - Personnel : • COM SMITH
LEA ESTRADA
AMANDA HARROLD
• CASCADE
LUCAS
CARLOS
Weather : 78°F overcast
Rain
PPE : Level D, modified
Purpose : Perform VOC, PFAS, & 1,4-Dioxane sampling of MW-161-3.
Perform slug testing of MW-161-3.
Perform soil borings & sample collection at PDI-23, PDI-24 (161 Bethpage) and PDI-25 (301 Winding) indoor locations.
0740 - Opened MW-161-3 for sample collection
DTW (ft bgs TIC) : 69.55
DTB (ft bgs TIC) : 75.92
0800 - Cascade on site
L. Estrada to collect soil borings & samples with Cascade. A. Harrold to complete well sampling. Challenges with rain.

7/25/18

Rite in the Rain

Location OLD BETHPAGE, NY Date 7/25/18

Project / Client FAL / NYSDEC

PDI-23, PDI-24

0815 - Start PDI-23
0-5', recovery 4' PID 0.8
Concrete, Brown fmc sand with some gravel
5'-10', recovery 5' PID 0.0
Brown fm sand
Orange-brown fmc sand with silt straiations, moist
10'-15', recovery 5' PID 0.0
Band of 4" light grey clay at 12'
Brown, grey, orange sand with silt
15'-20', recovery 5' PID 0.0
Light grey clay 18'-20'
Brown, orange fm sand
0830 - Collected VOC sample (PDI-23-SO-18-20180725) at top of clay layer (18')
MW-161-3 tubing clogged - check valve caught with piece of PVC, replaced check valve & hand pumped until steady flow
0840 - Collected duplicate sample at the top of the clay layer (18') at PDI-23 (PDI-123-SO-18-20180725)
Start PDI-24
0-5', recovery 2' PID 0.0
Concrete, brown sand

and rock 7/25/18

Location OLD BETHPAGE, NY Date 7/25/18

Project / Client FAL / NYSDEC

PDI-24, PDI-25

5'-10', recovery 3' PID 0.0
Brown fmc sand
10'-15', recovery 2' PID 0.0
White, Grey c sand with gravel
15'-20', recovery 3' PID 0.2
Light brown & grey clay from 18'-18.5'
Brown fmc sand with gravel
0850 - Collected VOC sample (PDI-24-SO-18-20180725) at top of clay layer (18')
0900 - Pouring rain, generator stopped possibly due to rain, unable to start it again but enough gas
0910 - All personnel move to 301 Winding to complete soil boring at PDI-25
0915 - Start PDI-25
0-5', recovery 4' PID 0.0
Concret, Brown fmc sand with some silt & gravel
5'-10', recovery 4' PID 0.0
Brown, orange fm sand
10'-15', recovery 4' PID 0.0
Light grey silty clay from 13.5'-14'
Brown, orange, grey fm sand

7/25/18

Rite in the Rain

Location Old Bethpage, NY Date 7/25/18

Project / Client FAL/NYSDEC

PDI-25, MW-161-3

15'-20', recovery 4' PID 1.6
Wet brown silty sand
Moist brown, orange silty fm sand
20'-25', recovery 3' PID 3.1 (22.5')
Brown, orange fm sand
Light grey clay 22'-22.5'

0930 - Collected VOC sample (PDI-25-50-14-20180725) at top of clay layer (13.5')
Collected MS/MSD sample
1030 - Cascade off site
1100 - Generator started
Hand pump MW-161-3, no water
1110 - Replace check valve, another piece of PVC clogged it
1115 - Hand pump MW-161-3 until steady flow
1140 - Start well development with Wattera Pump and YSI Sonde
1225 - MW-161-3 Stabilized
10 L purged DTW (ft bgs TIC): 69.65
21.64°C 5.79 pH
198.2 mV redox potential
0.299 mS/cm specific cond
18.2 NTU turbidity
4.41 mg/L dissolved oxygen

AM MM 7/25/18

Location Old Bethpage, NY Date 7/25/18

Project / Client FAL/NYSDEC

MW-161-3

Sampled MW-161-3 for VOCs, 1,4-Dioxane, and PFAS (MW-161-3-20180725)
Collected MS/MSD
1240 - A. Harrold offsite to buy ice for sample coolers
1300 - End sampling & stop pumping MW-161-3
A. Harrold back on site
1340 - Samples collected by Test America carrier
1400 - MW-161-3
DTW (ft bgs TIC): 69.55
Only about 6 feet of water in well, therefore will only lower the slug 3 feet into the water (67.55' rope)
Conducted Falling Head Slug Test
1415 - Rising Head Slug Test
1430 - Stabilized with slug out of well
DTW (ft bgs TIC): 69.55
1440 - Falling Head Slug Test 2
1450 - Rising Head Slug Test 2
1515 - MW-161-3
DTW (ft bgs TIC): 69.55

AM MM 7/25/18

Rite in the Rain

Location Old Bethpage, NY Date 7/25/18

Project / Client FAL / NYSDEC

1515 - Synoptic Water Levels

Well ID	DTW ft bgs	DTB ft bgs	
161-1D	74.25	>100	water in roadbox
161-1-I	Abandoned		
161-1S	Dry	70	no bolts in caps
161-2D	No Access - Under Equipment		
161-2I	NA		
161-2S	NA		
161-3	69.55	75.92	
161-4	68.94	74.36	
301-1D	67.30	>100	
301-1-I	66.95	95	
301-1-S	Abandoned		
301-2D	Abandoned		
301-2I	Abandoned		
? Near 301-2	66.15	80.25	
301-3D	66.65	>100	
301-3I	66.45	90.73	
301-4D	65.59	>100	water in roadbox
301-4I	65.55	95	
301-4S	60.73	65	

1645 - AECOM Smith offsite

7/25/18

Location Old Bethpage, NY Date 10/4/18

Project / Client NYSDEC - FAL

07:30 L. ESTRADA and Brookside Env. onsite to take water drums from 301 Winding Rd. parking lot.

0740 L. ESTRADA to collect IDW DNM Samples from soil drums.

#	Sample in Drum	Sample Composite
1	MW-161-3S	
2	MW-161-4S	IDW-1
3	MW-161-4S	
4	PDI-14	
5	PDI-2014	
6	PDI-17	
7	PDI-18	
8	PDI-20	IDW-2
9	PDI-15+16	
10	PDI-14+15	
11	PDI-10	
12	PDI-10	
13	PDI-11	IDW-3
14	PDI-11	
15	MW-161-3S	

10/4/18

Rite in the Rain

Location Old Bethpage Date 10/4/18

Project / Client FAL / NYSDEC

Cont.—

Drum #	Sample in Drum
16	PDI-12
17	PDI-12
18	PDI-13
19	PD-24+25
20	Unknown (geoprobe soil 6/13/18)

0800 First Brookside truck offsite with 30 water drums. 20 soil drums remain. 4 composite samples collected.

0800 SO-IDW-2018p04 collected for VOCs via TerraCore. + % Moist.

0815 SO-IDW-2-20181004 collected for VOCs + % Moist.

0830 SO-IDW-3-20181004 collected for VOCs and % Moist.

0845 SO-IDW-4-20181004 collected for VOCs and % Moist

0900 Packed and labeled samples. Mike from Brookside assisted in closing drums and moving them all to the southern part of lot.

0945 Mike from Brookside offsite.

Jei

Location Old Bethpage Date 10/4/18

Project / Client FAL / NYSDEC

11:00 Offsite to Woodbury office to get water level meter.

11:30 Back onsite @ MW-175-SD way east of 161 BSW # RD.

Well	10/4/18 DTW: ft TIC	DTB ft TIC
MW-195-S	DRY	~~70~~
MW-195I	72.21	~~70~~ 95
MW-195D	72.56	125

Note: Courier picked up IDW Samples at 10:45.

10/4/18

Rite in the Rain

Location Old Bethpage Date 3/6/19

Project / Client FAL / NYSDEC

0700 PERSONNEL: AMANDA HARROLD (COM SMITH)
CHRIS CALL (ADVANCED GEOLOGICAL SERVICES)
WEATHER: 20°F, SUNNY & WINDY
PPE: Level D MODIFIED
PURPOSE: PERFORM GPR SURVEY AT

0715 A. HARROLD SPOKE WITH ARTIE (161 BETHPAGE) & 301 WINDING (CHRIS)
301 TO MOVE POLY TANKS

0735 ARRIVED ON-SITE - CHRIS CALL

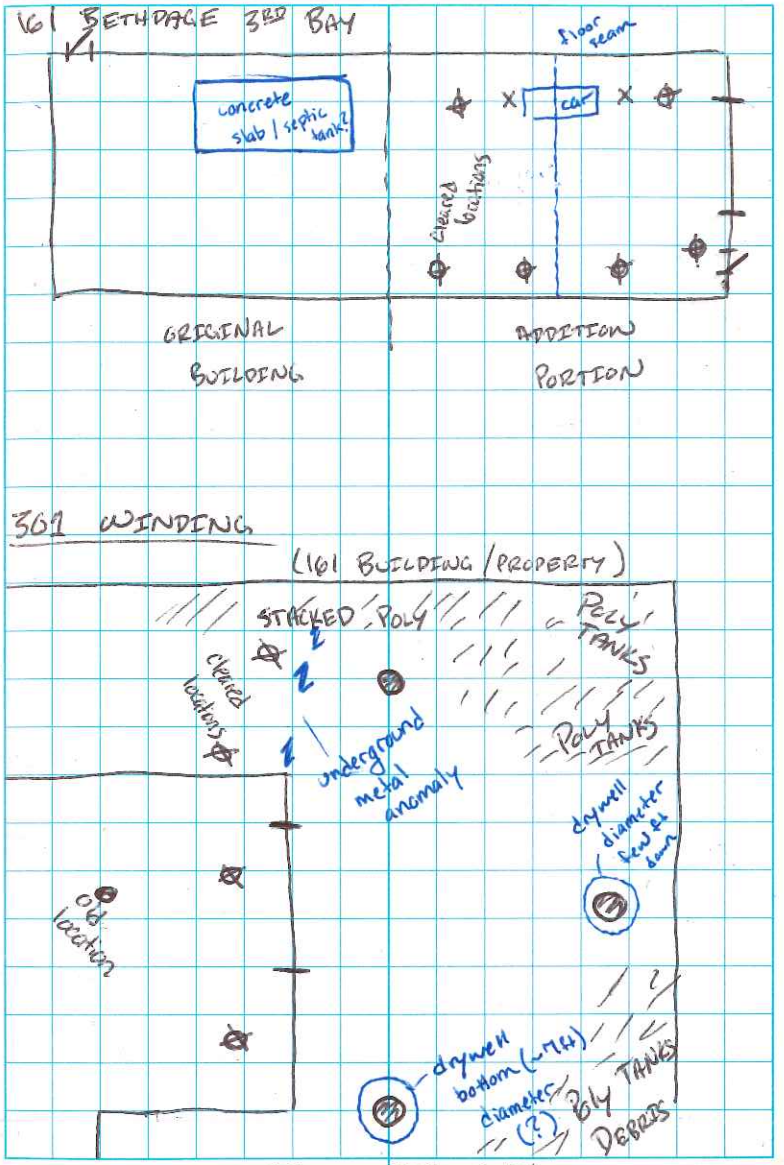
0800 MOBILIZE TO 161 BETHPAGE TO START SURVEY
FOUND CONCRETE SLAB STRUCTURE SIMILAR TO SEPTIC TANK IN WESTERN PORTION OF BAY (ORIGINAL STRUCTURE AREA)
MARKED & CLEARED 8 POTENTIAL LOCATIONS FOR SOIL SAMPLING ON 3/11 → M TO BE USED
SUGGESTION TO STAY AWAY FROM FLOOR SEAM
NO UTILITIES FOUND UNDERGROUND

0900 COMPLETED SURVEY AT 161 BETHPAGE
MOBILIZE TO 301 WINDING
SPOKE WITH LINO ABOUT MOVING CRATES IN BACK ROOM FOR DRILLING 3/11
NO PIPES WERE FOUND AROUND 3 DRYWELLS
~~METAL A~~

3/6

Location OLD BETHPAGE Date 3/6/19

Project / Client FAL / NYSDEC



3/6

Rite in the Rain

Location OLD BETHPAGE Date 3/6/19

Project / Client FAL / NYSDEC

0930 SPOKE WITH LINO (INTELLIGEN) ABOUT MOVING POLY TANKS TO FIND THIRD DRYWELL
STRONG ODOR AT NORTHERN-MOST DRYWELL
LIMITED SPACE BUT DID NOT FIND VISUAL OR RADAR EVIDENCE OF PIPES
RADAR WAS PENETRATING ON AVERAGE 6 OR 7 FEET BGS
MARKED AND CLEARED 4 POTENTIAL LOCATIONS

1030 C. CALL AND A. HARROLD OFFSITE 161 BETHPAGE : 301 WINDING AWARE OF PLANNED SAMPLING 3/11

3/6/19

Location Old Bethpage, NY Date 3/11/19

Project / Client FAL / NYSDEC

0715 A. HARROLD + L. ESTRADA onsite to perform oversight of PDI delineation borings within 161 and 301.

0720 Arthe not in the office today. Employee let us in to last garage bay.

0800 Cascade onsite: Personnel: Luke Caballero and Mike. Cascade only brought equip to perform cleaning. Showed them the locations in 161 Bethpage Sweet Hollow Rd.

0830 Mob to 301 Winding to show addl locs and ~~to~~ cleaning needed by dry wells.

0845 Drillers began ~~the~~ cleaning South West of DW-8.

0915 Sounding of Dry wells
DW-9 DTW: 3.54 ft bgs
DTB: difficult to tell due to skinny dipper weight
DW-8 DTW: 4.00 ft bgs
DW-7 DTW: 2.90

3/11/19

Rite in the Rain

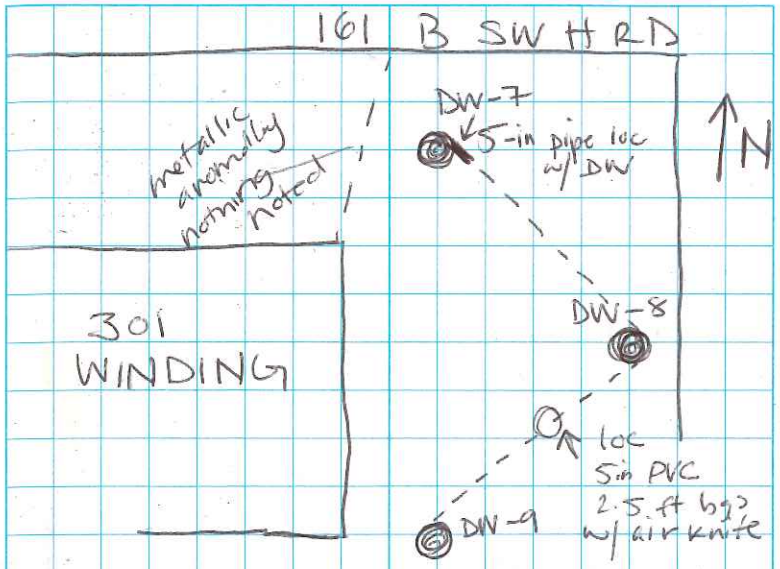
Location Old Bethpage, NY Date 3/11/19

Project / Client FAL / NYSDEC

0950	Visually located a pipe off DW-7 to the southeast.
1015	Located PVC pipe between DW-8 and DW-9. Looks to be a 5" in PVC pipe approx. 2.5 ft bgs
1130	CDM SMITH AND CASCADE OFFSITE FOR LUNCH.
1230	BACK ONSITE.
1245	Mob to clear metallic anomaly in 301 Winding Rd back area. Directly northeast of the 301 Storage rd.
1400	Cascade cleared down to 5 ft @ metallic anomaly and did not locate any thing of interest. C. ESTRADA + A. HARROLD collected water levels with 301 Winding Rd parking lot.
1415	Cascade patched all cuts in pavement.
1430	CDM SMITH CONTINUED COLLECTING WATER LEVELS.
1545	CDM SMITH OFFSITE

Location Old Bethpage, NY Date 3/11/19

Project / Client FAL / NYSDEC



Rite in the Rain

Location Old Bethpage, NY Date 3/12/19

Project / Client FAL/NYSDEC

0715 CDM SMITH ONSITE TO PERFORM ~~DR~~ OVERSIGHT OF SOIL BORINGS IN 161 and 301.

0725 CASCADE ONSITE. TO SET ~~UP~~ UP RIG.

0746 MOB TO 161 GARAGE TO PDI-26.

0830 Collected PDI-26-SO-17.5-031219 for VOCs. @ 17.5' bgs

0840 Mob to PDI-29.

0915 Collected sample PDI-29-17.5-031219 for VOCs. @ 17.5' bgs

0920 Mob to PDI-27

0945 Collected sample PDI-27-SO-17-031219 for VOCs @ 17' bgs

0950 quick break

1000 Mob to PDI-30

1030 Collected sample PDI-30-SO-17.5-031219 for VOCs @ 17.5 ft bgs.

1045 Mob to PDI-31.

1100 Collected sample PDI-31-SO-17.5-031219 for VOCs @ 17.5'

1110 Mob to PDI-32.

3/12/19

Location Old Bethpage Date 3/12/19

Project / Client FAL/NYSDEC

1130 Collected sample PDI-32-SO-16-031219 for VOCs @ 16 ft bgs.

1145 Mob to PDI-28 (last boring w/in 161 ~~bldg~~ Bethpage Sweet-Hollow Rd.

1215 Collected PDI-28-SO-16-031219 for VOCs @ 16ft bgs

1230 Collected swing distances for borings locs. and patching holes in garage floor in 161.

1245 CDM SMITH down to 301 Wind. to speak w/ Sal and staff. Sal said they do not get enough amperage to their facility despite having requested more from PSEG. Possibly looking to upgrade and could use 480V after we use it for treatment.

1315 Spoke w/ Artie about patches in garage bay. He said we were all set and they would repaint.

1330 Offsite for lunch.

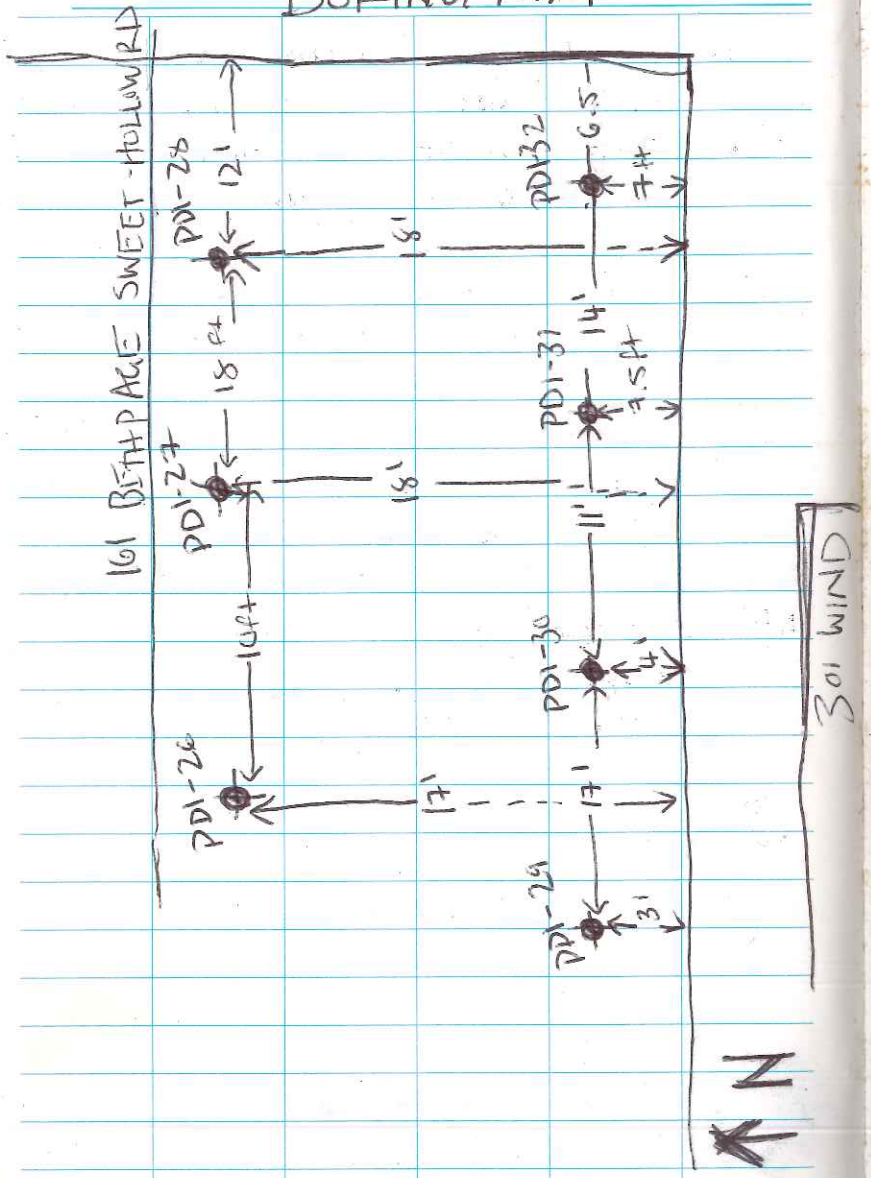
3/12/19

Rite in the Rain

Location Old Bethpage, NY Date 3/12/19

Project / Client FAL/NYSDEC

BORING MAP



Location Old Bethpage, NY Date 3/12/19

Project / Client FAL/NYSDEC

1430 Drillers and CDM Smith back onsite to fill drum.

1445 One drum of soil cuttings was placed west of the 301 Winding building.

1500 Borings within 301 will be started and completed tomorrow 3/13.

1515 A. Harrold and L.E Strada walked around site to determine guy pole numbers and to take pictures of utility markouts.

1600 Offsite to Home Depot for tape measure. Cascade was offsite @ 1500.

3/12/19

Rite in the Rain

Location Old Bethpage, NY Date 3/13/19

Project / Client FAL / NYSDEC

0715 A. Harrold and L. ESTRADA onsite to perform oversight of remaining four borings within and around 301 Winding Rd.

0730 Mob to PDI-33

0800 Collected sample PDI-33-SO-13-031319 for VOCs @ 13'.

0815 Collected DUP @ PDI-33 - sample PDI-133-SO-13-~~20~~031319 for VOCs @ 13'

0820 Mob to PDI-34.

0900 Collected sample PDI-34-SO-15-031319 for VOC @ 15'

0910 Mob to PDI-35

0945 Collected sample PDI-35-SO-14-031319 for VOCs + MS/MSD

0950 Mob to PDI-36

1015 Collected sample PDI-36-SO-13.5-~~03131.5~~ 031319.

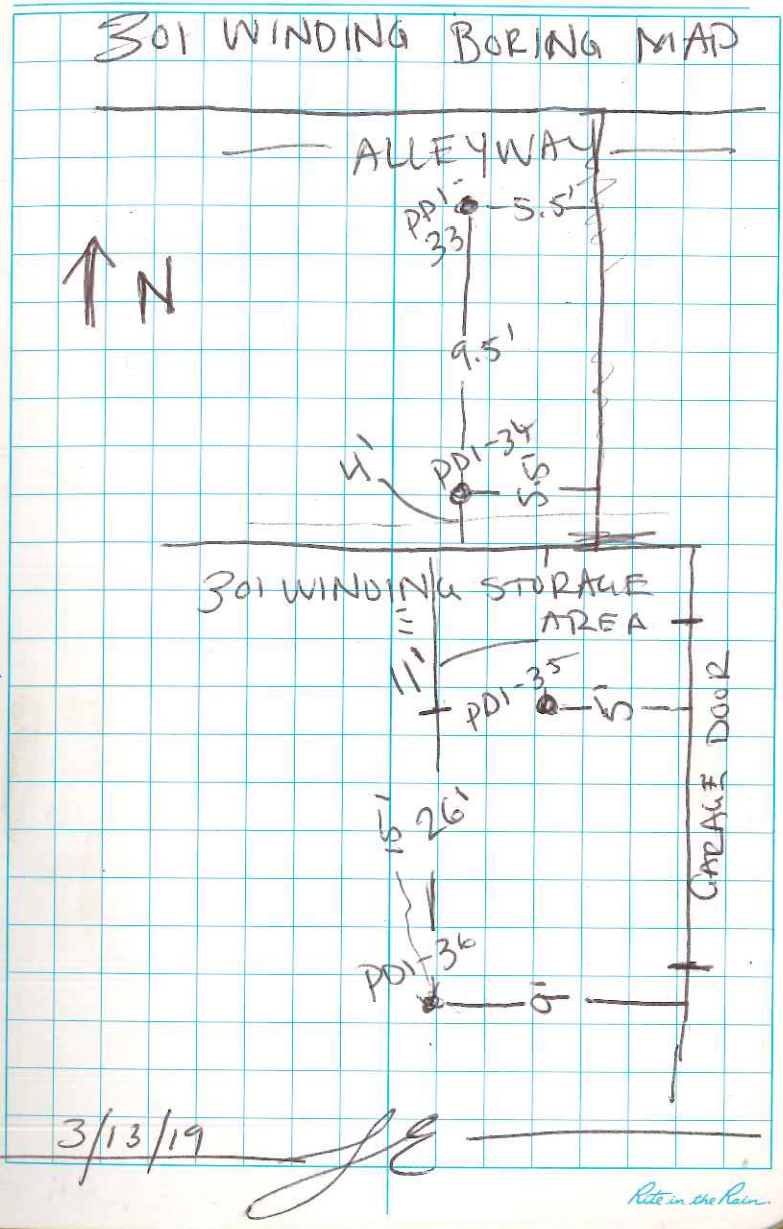
1030 Patching holes in asphalt and concrete around 301 WINDING.

1045 Spoke with Sal and Andre. Said we patched sink hole and boring holes. They seemed pleased.

1145 Cascade and CDM offsite. JE

Location Old Bethpage, NY Date 3/13/19

Project / Client FAL / NYS DEC



3/13/19 JE

Rite in the Rain

Location OLD BETHPAGE, NY Date 3/13/19

Project / Client FAL/NYSDEC

NOTE: WATER LEVELS COLLECTED ON 3/11/19

WELL ID	DTW (~~ft bgs~~ ft TIC)	DTB (ft TIC)	
MW-301-1-D	62.90		
MW-301-1-I	62.70		
MW-301-2	62.09		* WATER ENTERED WELL CASING AS LEVEL WAS COLLECTED
↑ (POSSIBLY ALC-OLD-MW3)			
MW-301-3-D	62.45		
MW-301-3-I	62.17		
MW-301-4-S	59.95		
MW-301-4-I	61.28		
MW-301-4-D	61.23		
ALC-OLD-MW1	62.44	75.94	
MW-161-1-S	68.00		
MW-161-1-D	69.97		
MW-195-1	73.90	80	
MW-195-1	74.0	100	
MW-195-1	74.1	120	

ABANDONED WELLS

301-1-VD APPEARS ASPHALTED OVER

301-1-S

MW-161-1-I } CDM ABANDONED

ALC-MW3

ALC-OLD-MW2

EITHER ALC-OLD-MW3 OR MW-301-2

Location Date

Project / Client

ANDRE

347.707.6893

Rite in the Rain

Appendix D

Photodocumentation

Former Aluminum Louvre – Phase I PDI – 161 Bethpage-Sweet Hollow Road

10/24/2017, Geoprobe 7720DT Rig at PDI-9

Former Aluminum Louvre – Phase I PDI – 161 Bethpage-Sweet Hollow Road

11/14/2017, Geoprobe 8140 LC Sonic Rig at PDI-11

Former Aluminum Louvre – Phase I PDI – 301 Winding Road

6/28/2018, Fraste XL Max 170 Rig boring at a 30° angle at PDI-19

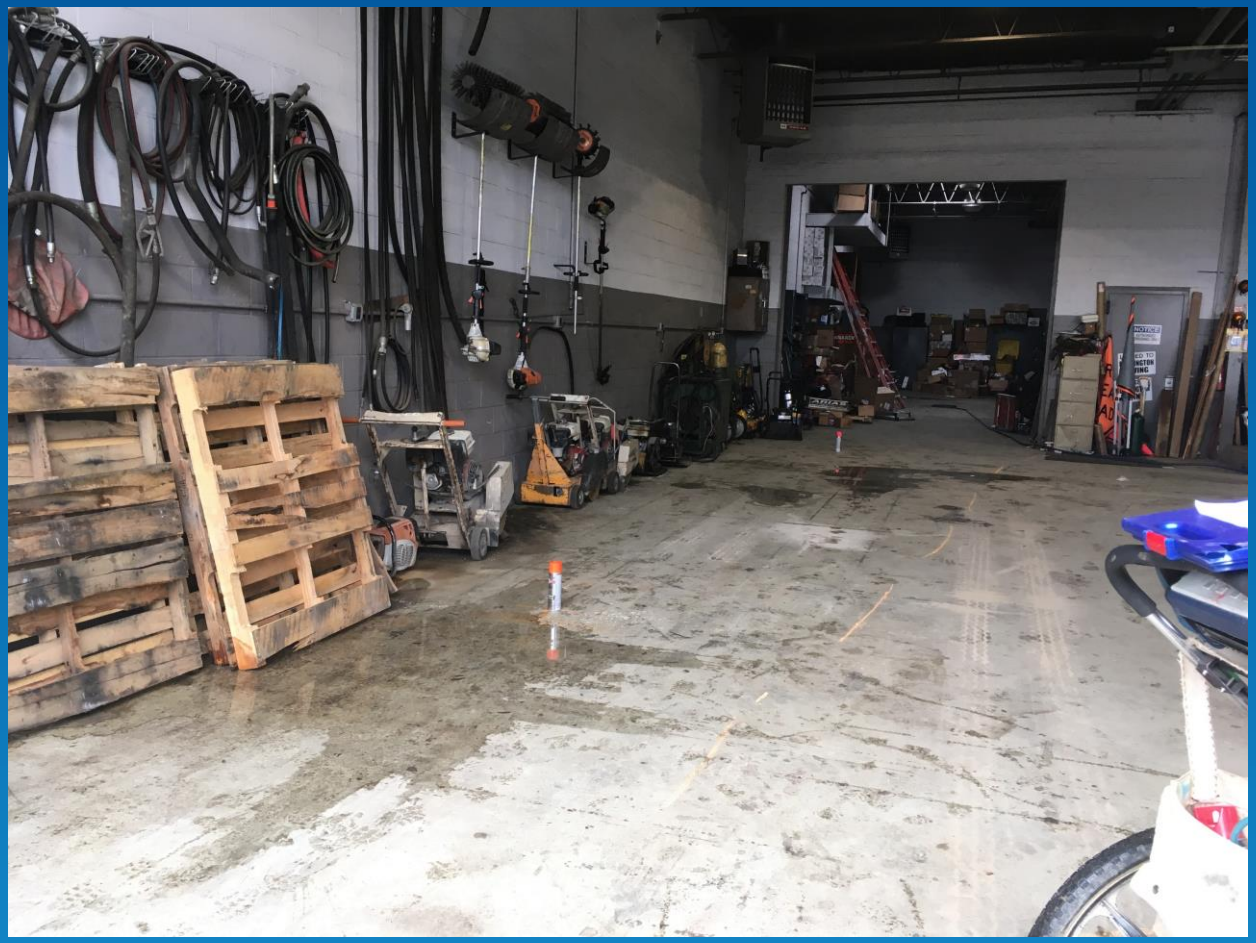
Former Aluminum Louvre – Phase II PDI – 161 Bethpage-Sweet Hollow Road

7/23/2018, Trailer located within southern mechanics bay facing east

Former Aluminum Louvre – Phase II PDI – 161 Bethpage-Sweet Hollow Road

7/23/2018, Unknown anomaly located within middle mechanics bay facing south

Former Aluminum Louvre – Phase II PDI – 161 Bethpage-Sweet Hollow Road



7/23/2018, Cleared boring locations at spray cans within the middle mechanics bay facing west

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, 301 Winding Road building from east alleyway facing northwest

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Scrap metal and supplies within building facing south

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Scrap metal and supplies within building facing northeast

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Cleared boring locations within 301 Winding Road building facing east

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Depression and standing water in east alley facing northwest

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, East alleyway facing north towards 161 Bethpage-Sweet Hollow Road building

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, East alleyway northeast corner near source zone

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Equipment and debris in east alleyway facing southwest

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, Equipment and debris in east alleyway facing southeast

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, ALC-OLD-MW3 under water

Former Aluminum Louvre – Phase II PDI – 301 Winding Road

7/23/2018, South alleyway facing west

Former Aluminum Louvre – Phase II – 161 Bethpage-Sweet Hollow Road

7/25/2018, PDI-23 soil boring ending with gray Clay 1 at approximately 18 feet bgs

Former Aluminum Louvre – Phase II – 161 Bethpage-Sweet Hollow Road

7/25/2018, PDI-24 interface of sand and Clay 1 approximately 18 feet bgs

Former Aluminum Louvre – Phase II – 161 Bethpage-Sweet Hollow Road

7/25/2018, Patched location of PDI-23

Former Aluminum Louvre – Phase II – 301 Winding Road

7/25/2018, Geoprobe at PDI-25

Former Aluminum Louvre – Phase II – 301 Winding Road

7/25/2018, PDI-25 soil boring with Clay 1 at approximately 14 feet bgs

Former Aluminum Louvre – Phase II – 301 Winding Road

7/25/2018, Patched location of PDI-25

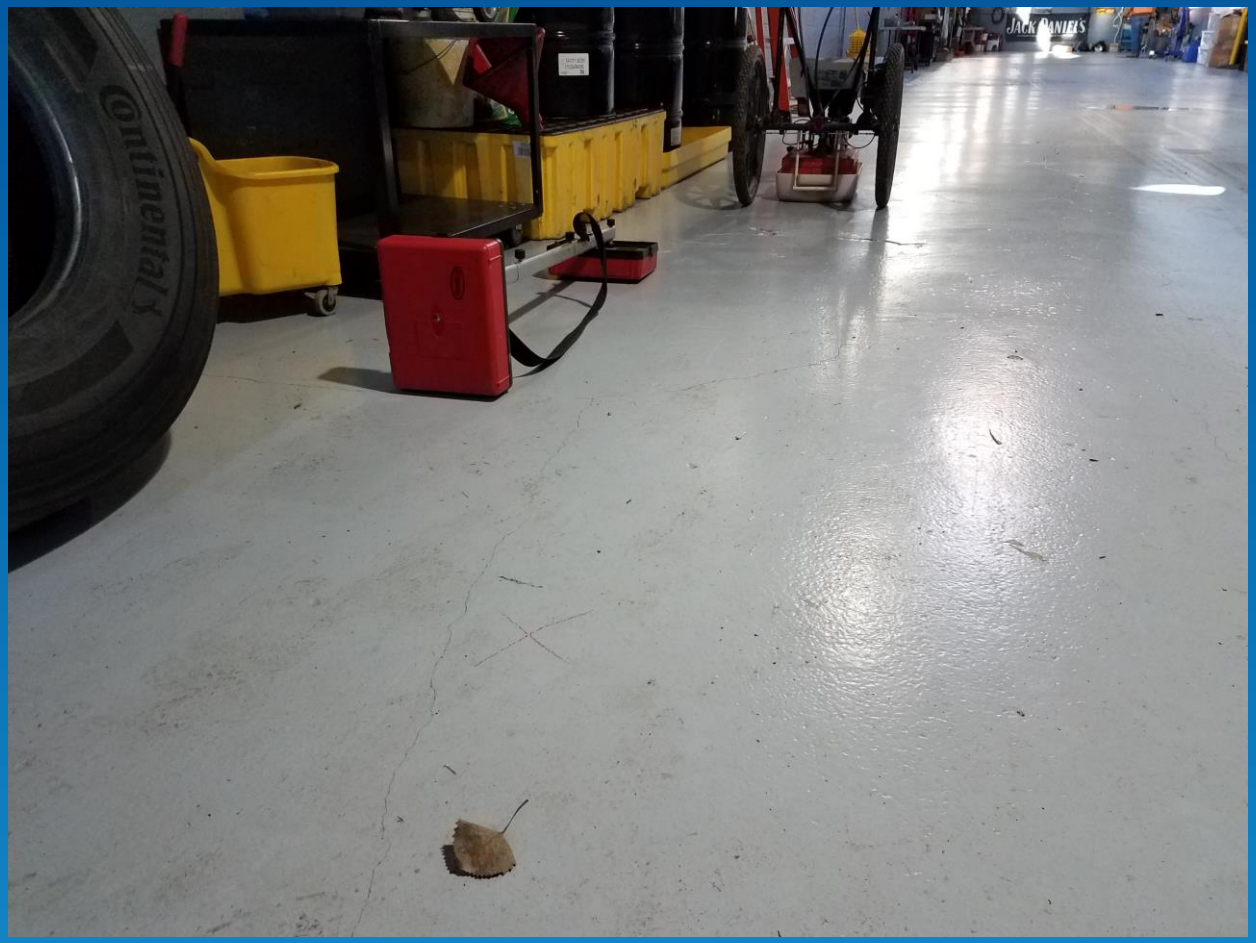
Former Aluminum Louvre – Phase II – 301 Winding Road

7/25/2018, IDW drums storage area in 301 Winding Road parking lot

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/6/2019, Southern mechanics bay facing east

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road



3/6/2019, Original conditions

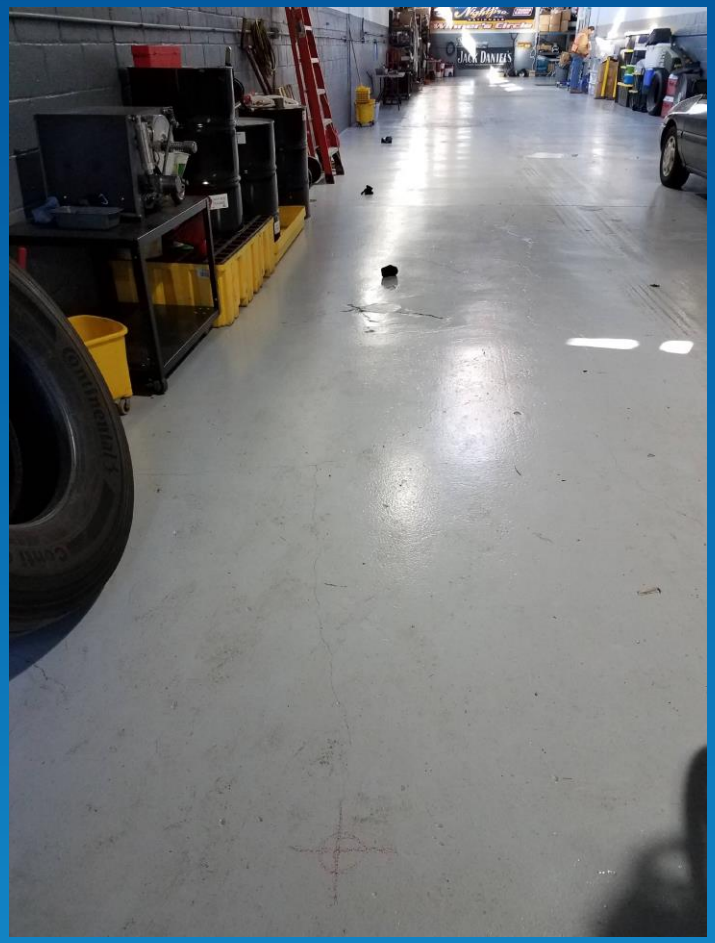
Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/6/2019, Original conditions

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/6/2019, Original conditions

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road



3/6/2019, Four of the seven cleared boring locations

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Supplies within building facing southeast

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Supplies within building facing northeast

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Cleared boring location

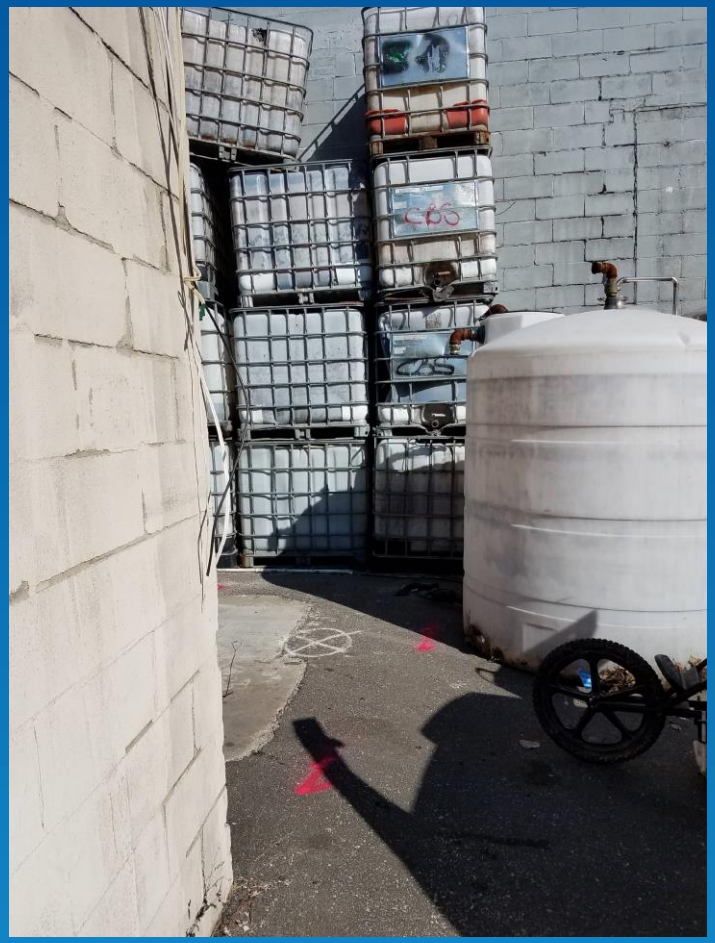
Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Cleared boring location

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Cleared boring locations in north alleyway facing east

Former Aluminum Louvre – Phase III PDI – 301 Winding Road



3/6/2019, Unknown metallic anomaly in the north alleyway facing north

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Northern-most dry well (DW-7) partially cleared of debris

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Eastern-most dry well (DW-8) with solid cover and brick and concrete walls

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Southern-most dry well (DW-9) covered by a grate

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Location of poly tanks in east alleyway facing northeast

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, Location of poly tanks in east alleyway facing southeast

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/6/2019, North alleyway facing east

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Pipe in DW-7 in a southeast direction

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Air-knifing near DW-7

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, 5” PVC pipe between DW-7 and DW-8

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, 5” PVC pipe between DW-8 and DW-9

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Concrete roof of screened barrel portion of DW-8

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Patched locations from air knifing activities between DW-8 and DW-9

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Location of metallic anomaly from GPR and EM survey – nothing of interest identified

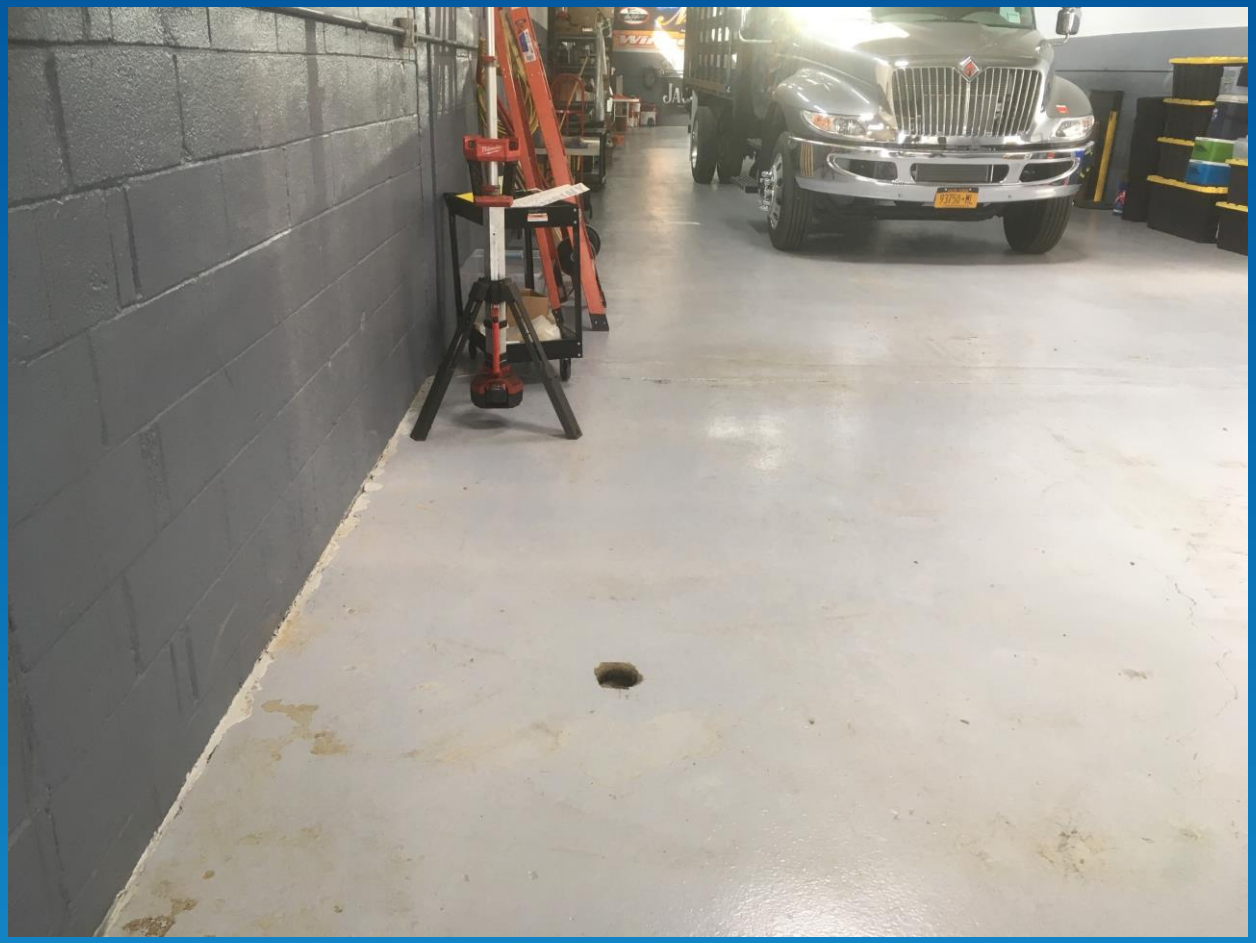
Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, Patched location from air knifing activities in the north alleyway

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/11/2019, PDI-26 boring location

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

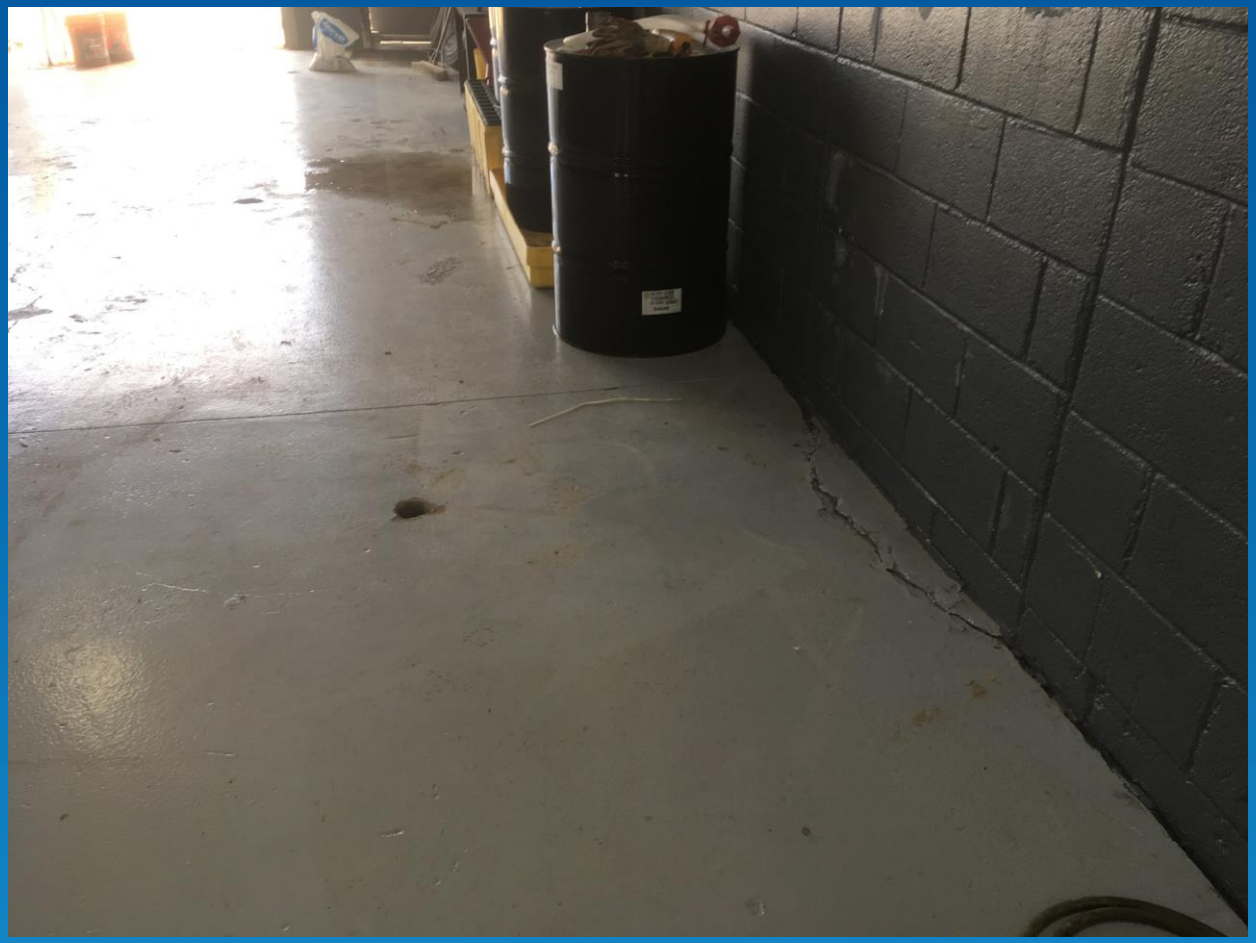


3/12/2019, PDI-29 boring location

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/12/2019, Soil boring from PDI-29 sampled at interface between sand and Clay 1 (17.5 feet bgs)

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road



3/12/2019, PDI-30 boring location

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/12/2019, Soil boring from PDI-30 sampled at interface between sand and Clay 1 (17.5 feet bgs)

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/12/2019, Interface between sand and Clay 1 at PDI-32 (16 feet bgs)

Former Aluminum Louvre – Phase III PDI – 161 Bethpage-Sweet Hollow Road

3/12/2019, Patched PDI-26 boring location

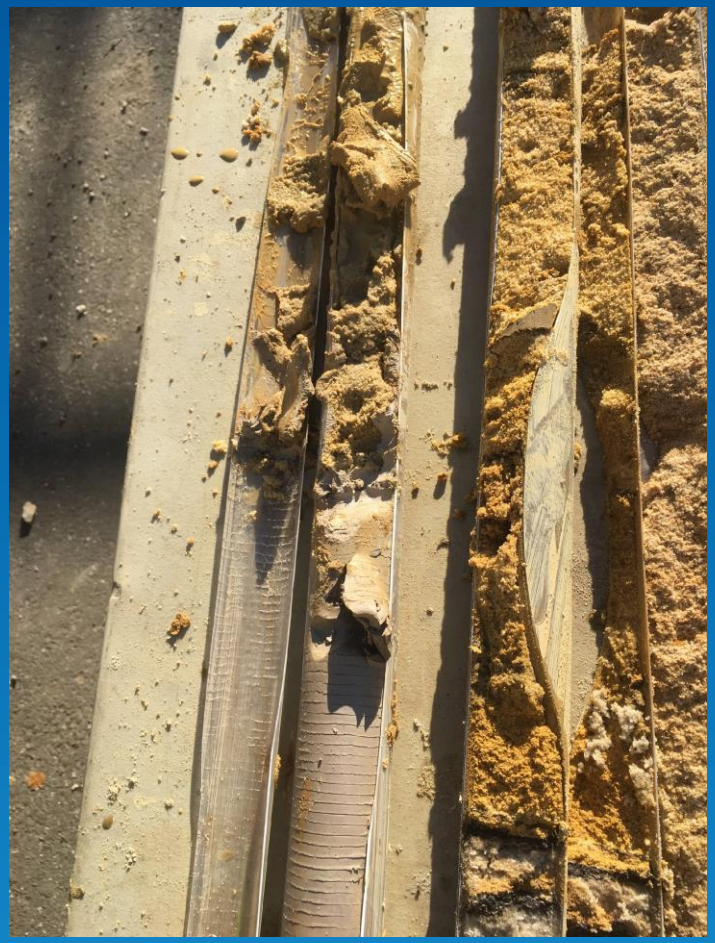
Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/12/2019, Utility pole supplying 301 Winding Road with electrical power

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/12/2019, Natural gas line utility mark out (circa 2017)

Former Aluminum Louvre – Phase III PDI – 301 Winding Road



3/13/2019, Interface between sand and Clay 1 at PDI-34 (15 feet bgs)

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/13/2019, Geoprobe at PDI-35

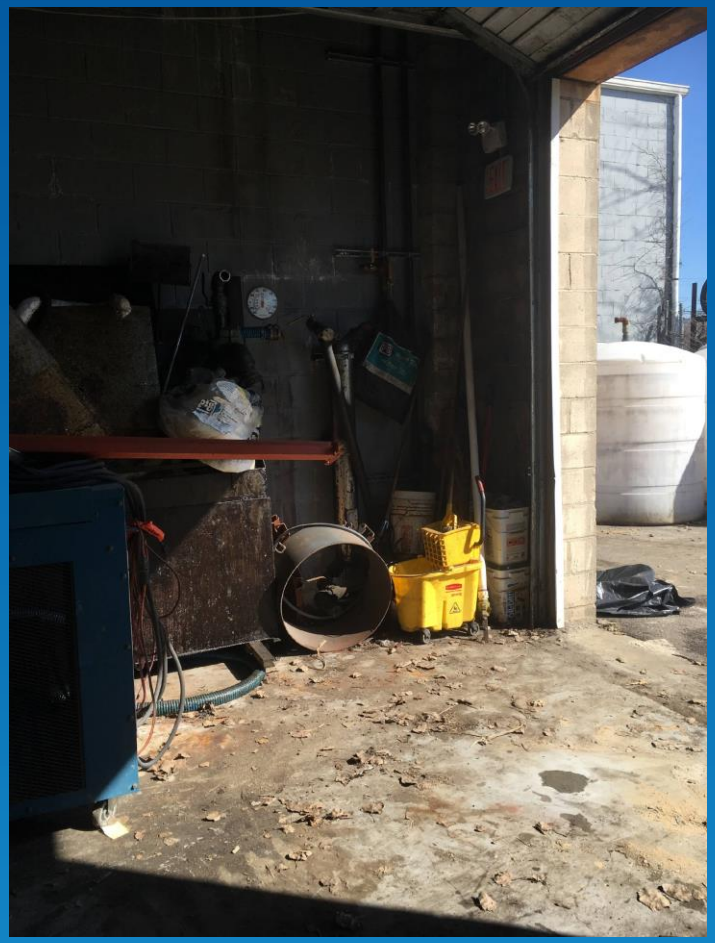
Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/13/2019, Soil boring from PDI-35 sampled at interface between sand and Clay 1 (14 feet bgs)

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/13/2019, Patched PDI-33 boring location

Former Aluminum Louvre – Phase III PDI – 301 Winding Road



3/13/2019, Patched PDI-35 boring location

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/13/2019, Depression in east alleyway

Former Aluminum Louvre – Phase III PDI – 301 Winding Road

3/13/2019, Patched depression in east alleyway

Appendix E

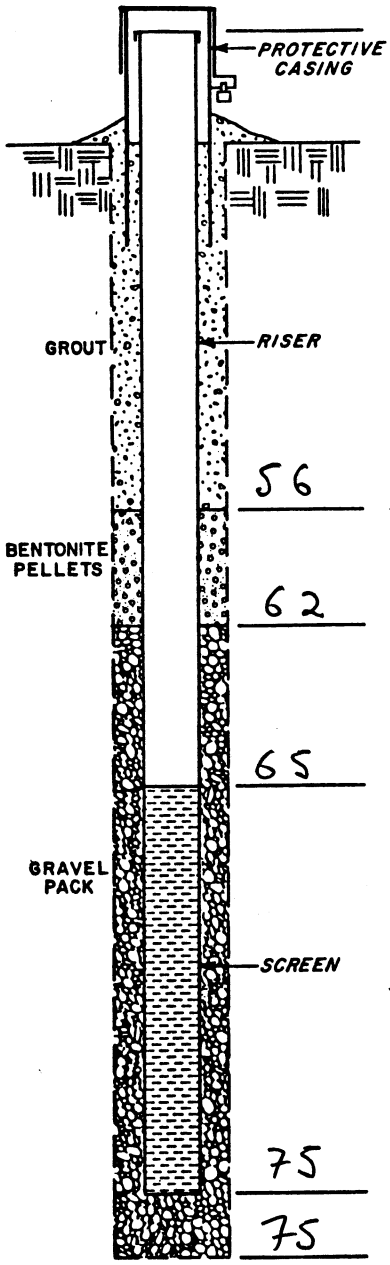
Well Dev, Low Flow Logs and Well Construct

CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: FAL Client: NYSDEC Well No: MW-161-35



DRILLING SUMMARY

Drilling Co: AOT-Cascade Drillers: Dave Moon

Drill Rig Make/Model: Fraste / Sonic

Borehole Diameters: 5.5" Drilling Fluid: Water

Bits/Depths: 5.5" to 75'

Total Depth: 75' Depth to Water: ~70'

Supervisory Geologist: Alan Eisberg / Frank Robinson

WELL DESIGN

Casing Material: PVC sched 40 Diameter: 2" Length: 65'

Screen Material: PVC sched 40 Diameter: 2" Length: 10'

Slot Size: 10 Setting: 65-75'

Filter Material: Filpro #1 Setting: 62-75'

Seals Material: Bentonite Chips Setting: 56-62'

Grout: Portland / Bentonite Setting: 62' to surface

Surface Casing Material: Flush Setting:

TIME LOG

	Started	Completed
Drilling:	7/2/18	7/2/18
Installation:	7/2/18	7/2/18
Development:	7/5/18	7/5/18

WELL DEVELOPMENT

Method: Submersible Pump

Static Depth to Water: 66'

Pumping Depth to Water: 73'

Pumping Rate: ~1.5 l/min Specific Capacity:

Volume Pumped: ~25 Gallons

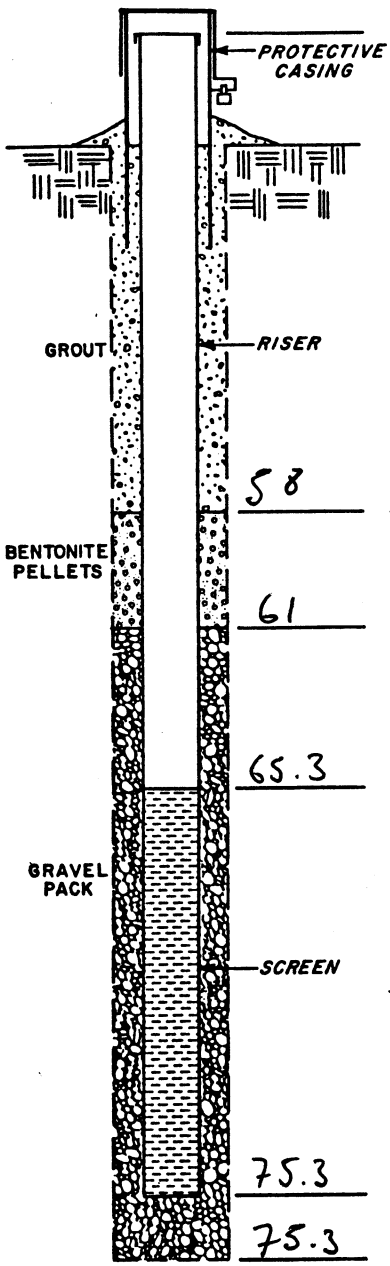
NY-5

CDM

environmental engineers, scientists, planners & management consultants

WELL CONSTRUCTION SUMMARY

Project: FAL Client: NYSDEC Well No: MW-161-45



DRILLING SUMMARY

Drilling Co: ADT - Cascade Drillers: Dave Moon

Drill Rig Make/Model: Fraste / Sonic

Borehole Diameters: 5.5" Drilling Fluid: water

Bits/Depths: 5.5" to 75'

Total Depth: 75' Depth to Water: ~70'

Supervisory Geologist: Alan Eisberg / Frank Robinson

WELL DESIGN

Casing Material: PVC sched 40 Diameter: 2" Length: 65'

Screen Material: PVC sched 40 Diameter: 2" Length: 10'

Slot Size: 10 Setting: 65.3-75.3'

Filter Material: #1 Filpro Setting: 61-75.3'

Seals Material: Bentonite Chips Setting: 58-61'

Grout: Portland / Bentonite Setting: 58-Surface

Surface Casing Material: Flush Setting:

TIME LOG

	Started	Completed
Drilling:	7/3/18	7/3/18
Installation:	7/3/18	7/3/18
Development:	7/5/18	7/5/18

WELL DEVELOPMENT

Method: Submersible Pump

Static Depth to Water: 64.90'

Pumping Depth to Water: 73'

Pumping Rate: ~1.6 l/min Specific Capacity:

Volume Pumped: ~25 gallons

NY-5

LOW FLOW SAMPLING SHEETS

SITE NAME: FAL

DATE: 25 JULY 2018 WELL #: MW-161-3

SAMPLE TIME: 12:25 DEPTH OF PUMP: 71' * WATER LEVEL TOO CLOSE TO MIDDLE OF SCREEN

WEATHER CONDITIONS: OVERCAST, RAIN, 78°F SAMPLERS: LE/AH

TIME	VOLUME PURGED (~~GALS~~) L	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN FEET	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)
11:40	0	69.60	250	0.0	23.36	5.88	177.5	0.309	149.4	5.80
11:45	1.25	69.60	"	0.0	21.58	5.82	184.3	0.303	138.2	5.32
11:50	2.5	69.63	"	0.03	21.40	5.84	186.2	0.302	94.7	4.96
11:55	3.75	69.64	"	0.01	21.42	5.84	188.6	0.301	79.0	4.79
12:00	5.0	69.64	"	0.0	21.39	5.82	190.3	0.300	57.4	4.67
12:05	6.25	69.65	"	0.01	21.38	5.81	192.4	0.299	43.9	4.56
12:10	7.5	69.65	"	0.0	21.56	5.80	194.8	0.298	31.2	4.41
12:15	8.75	69.65	"	0.0	21.74	5.80	196.8	0.298	26.2	4.44
12:20	10.0	69.65	"	0.0	21.64	5.79	198.2	0.299	18.2	4.41
12:25	—	—	—	SAMPLE	COLLECTED	—	—	—	—	—

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

LOW FLOW SAMPLING SHEETS

161

SITE NAME: FAL - NYSDEC

DATE: 7/24/18 **WELL #:** MW-161-4

SAMPLE TIME: 1010 Dup (1015) **DEPTH OF PUMP:** 70 ft bgs TIC

WEATHER CONDITIONS: Sunny 85°F **SAMPLERS:** LE/AH

TIME	VOLUME PURGED ~~(GALS)~~ L	DEPTH TO WATER (FT TIC)	FLOW RATE (ml/min)	DRAWDOWN FEET	TEMP °C (+/- 10%)	ph (+/- 0.1 SU)	REDOX POTENTIAL mV (+/- 10 mv)	SPECIFIC COND. mS/cm (+/- 3%)	TURBIDITY NTUs (+/- 10%)	DISSOLVED OXYGEN mg/L (+/- 10%)
0920	—	69.00	250	—	22.70	7.13	138.00	0.432	126.00	8.74
0925	1.25	69.00	"	0.00	20.42	6.43	165.6	0.393	97.4	8.57
0930	2.50	69.01	"	0.01	20.44	6.41	177.6	0.388	126.2	8.35
0935	3.75	69.02	"	0.01	20.19	6.40	181.2	0.357	157.8	8.24
0940	5.00	69.01	"	-0.01	20.26	6.42	177.4	0.388	100.5	8.63
0945	6.25	69.01	"	0.00	20.51	6.45	182.6	0.389	100.2	8.76
0950	7.50	69.01	"	0.00	20.14	6.47	183.9	0.388	57.8	8.86
0955	8.75	69.01	"	0.00	20.04	6.49	184.3	0.387	42.8	8.74
1000	9.00	69.01	"	0.00	19.79	6.47	186.0	0.387	40.2	8.77
1005	10.25	69.01	"	0.00	19.80	6.46	187.0	0.386	42.3	8.83
1010	SAMPLE COLLECTED + DUP (1015)									

The well is considered stabilized and ready for sampling when the indicator parameters have stabilized for three consecutive readings by the measurements indicated in parenthesis.

Appendix F

Hydraulic Conductivity Calculations

A Calculation Form (Word Format)

Directions: Complete one form for each calculation brief pg. ____ of ____

Client: NYSDEC	**Job No. 0897.215958**	**Calculations By: M. Renko & A. Harrold**
Project: Former Aluminum Louvre	**Checked By/Date E. Ashley 7/3/2019**	**Date: 27 September 2018**
Detail: Hydraulic Conductivity and Groundwater Flow Rate	**Reviewed By/Date ____**	**Calc #: ____** **Revision No./Date: ____**

Calculation Brief Title: Hydraulic Conductivity and Velocity of Groundwater Calculations

1.0 Purpose/Objective: Provide brief statement of results to be expected from this calculation.

The purpose of these calculations is to use data obtained from slug tests to calculate the hydraulic conductivity and average linear velocity of groundwater.

2.0 Procedure: Outline the steps followed and approach.

Slug tests were performed at two monitoring wells using a slug comprised of a solid PVC cylinder and an in-well transducer to collect periodic water level versus time measurements. Measurements are recorded before, during and after the slug is removed as the water level changes toward an equilibrium condition. The raw slug test measurements collected by the transducer and dimensions of the slug were inputted into the software program AQUTESOLV Pro which calculates the hydraulic conductivity using the Bouwer and Rice method. The geometric mean of the hydraulic conductivity calculated from the two monitoring wells (MW-161-3 and MW-161-4) was used to estimate the average linear velocity of groundwater.

3.0 References/Data Sources:

A. List out information used and its source(s). Attach copies of information used for the calculation including source for all calculation formulas.

1. McWhorter, D.B. and Sunada, D.K., 1977. *Groundwater Hydrology and Hydraulics,* Water Resources Publications, Colorado.
2. Fetter, C.W., 2001. *Applied Hydrogeology, 4th Ed.,* Prentice Hall, Inc., Upper Saddle River, New Jersey.
3. United States Environmental Protection Agency (EPA), 1996. Soil Screening Guidance: User's Guide, Publication 9355.4-23, Washington, DC. http://www.epa.gov/reg3hwmd/risk/human/rb-concentration_table/chemicals/SSG_nonrad_user.pdf
4. Manger, Edward, 1963. Porosity and Bulk Density of Sedimentary Rocks, United States Geological Survey Bulletin 1144-E, United States Government Printing Office, Washington, D.C. http://pubs.usgs.gov/bul/1144e/report.pdf
5. Morris, D. A., and Johnson, A. I., 1967. Summary of Hydrologic and Physical Properties of Rock and Soil Materials, as Analyzed by the Hydrologic Laboratory of the U.S. Geological Survey 1948-60, United States Geological Survey Water-Supply Paper 1839-D, United States Government Printing Office, Washington, D.C. https://pubs.usgs.gov/wsp/1839d/report.pdf

B. Show full version of key equations here with references.

Bouwer and Rice Equation for calculating hydraulic conductivity (Fetter, 2001)

$$K = \frac{r_c^2 \ln(R_e/r_w)}{2L_e} * \frac{1 \ln (h_0/h)}{t}$$

Where: K = hydraulic conductivity; R_e = radial distance over which head is dissipated; h_0 = drawdown at time t = 0; r_c = radius of well casing; L_e = length of screen; h = drawdown at time t=t; r_w = radius of the well; t = time since $h = h_0$

Equation for calculating linear velocity (Fetter, 2001)

$$V_x = \frac{K}{n} * \frac{dh}{dl}$$

A Calculation Form (Word Format)

Where: Vx = linear velocity of the groundwater K = hydraulic conductivity n = effective porosity
dh = vertical gradient dl = horizontal gradient

4.0 Assumptions and Limitations:

A. List assumptions and basis.

No lithology data was available for MW-161-3 or MW-161-4 so lithology data from other nearby borings was used to estimate the saturated thickness of the aquifer. A consistent clay layer was found at an elevation of 50 feet above mean sea level and assumed to confine the lower boundary of the aquifer. Both wells were screened across the water table; therefore, the aquifer is assumed to be unconfined. It is assumed the hydraulic gradient is unaffected by seasonality and incorporates areas of steeper and shallower gradients as a conservative estimate for the entire site.

B. Identify limitations of calculations and results.

Two rising head tests were performed at each of the two wells. The geometric mean of the average calculated hydraulic conductivity values obtained from each well were used to calculate the average linear velocity of groundwater. The hydraulic gradient of the site was estimated based on groundwater contour maps from January 2018.

5.0 Calculations: Attach calculation to this form. Create clear and descriptive process that is easily followed. Show actual equations in normal format. Use sketches and graphs liberally. Box significant results and annotate liberally. Use units, where appropriate.

The table below is an example of information for the slug (used in both wells) and monitoring wells that were inputted into the AQTESOLV Pro software.

Slug			**Well (MW-161-3 and MW-161-4)**		
60	in	Length	2	in	Diameter
1.5	in	Diameter	1	in	Radius
0.75	in	Radius	3.141593	in^2	Area
1.767146	in^2	Area	8	in	Hole Diameter
106.0288	in^3	Volume	65 – 75	ft bgs	Screen Depth
			2.53125	ft	Initial Displacement
			80	ft	Aquifer Saturated Thickness

The attached pages contain the AQTESOLV Pro output files from the rising head tests. The table below presents a summary of the hydraulic conductivity values calculated at each well using AQTESOLV Pro.

Hydraulic Conductivity Values Calculated in AQTESOLV Pro				
MW-161-3				
7.500E-6	ft/sec	0.6480	ft/day	
6.543E-6	ft/sec	0.5653	ft/day	
7.021E-6	ft/sec	0.6066	ft/day	Average, silty sand
MW-161-4				
5.068E-6	ft/sec	0.4379	ft/day	
4.218E-6	ft/sec	0.3644	ft/day	
4.643E-6	ft/sec	0.4012	ft/day	Average, silty sand
Average calculated hydraulic conductivity (geometric mean): 5.710E-6 ft/sec (0.4933 ft/day)				

A Calculation Form (Word Format)

CDM Smith

CLIENT NYSDEC | JOB NO. 0897.215458 | COMPUTED BY A. HARROLD
PROJECT FORMER ALUMINUM LOUVRE | DATE CHECKED | DATE 7/3/2019
DETAIL HYDRAULIC CONDUCTIVITY & GW FLOW RATE | CHECKED BY | PAGE NO.

1] CALCULATE HYDRAULIC GRADIENT OF THE SITE

$$\text{HYDRAULIC GRADIENT } (i) = \frac{dh}{dl}$$

WHERE: dh = VERTICAL GRADIENT
dl = HORIZONTAL GRADIENT

GIVEN:

DISTANCE BETWEEN MW-161-1 AND MW-161-2 (dl) = 220 ft
GROUNDWATER ELEVATIONS (MEASURED JAN 2018)
MW-161-1 : 74.06 ft bgs DTW → 62.07 ft amsl
MW-161-2 : 71.3 ft bgs DTW → 60.9 ft amsl

$$i = \frac{dh}{dl} = \frac{(62.07 - 60.9)\text{ ft}}{220\text{ ft}} = 0.00530$$

2] CALCULATE AVERAGE LINEAR VELOCITY (V_x)

$$\text{AVERAGE LINEAR VELOCITY } (V_x) = \frac{K}{n} \times i$$

WHERE: K = HYDRAULIC CONDUCTIVITY
n = EFFECTIVE POROSITY
i = HYDRAULIC GRADIENT

ASSUMPTIONS:

$K = 5.710 \times 10^{-6}$ ft/sec (0.493 ft/day) AQTESOLV Pro Software
$n = 0.28$ (Morris and Johnson, 1987) assuming silty sand

$$V_x = \frac{K}{n} \times i = \frac{5.710 \times 10^{-6}\text{ ft/sec}}{0.28} \times 0.00530 = 1.08 \times 10^{-7}\text{ ft/sec} \quad (0.00934\text{ ft/day})$$

A Calculation Form (Word Format)

6.0 Conclusions/Results:

A. List results concisely and tie back to 1.0 Purpose/Objective.

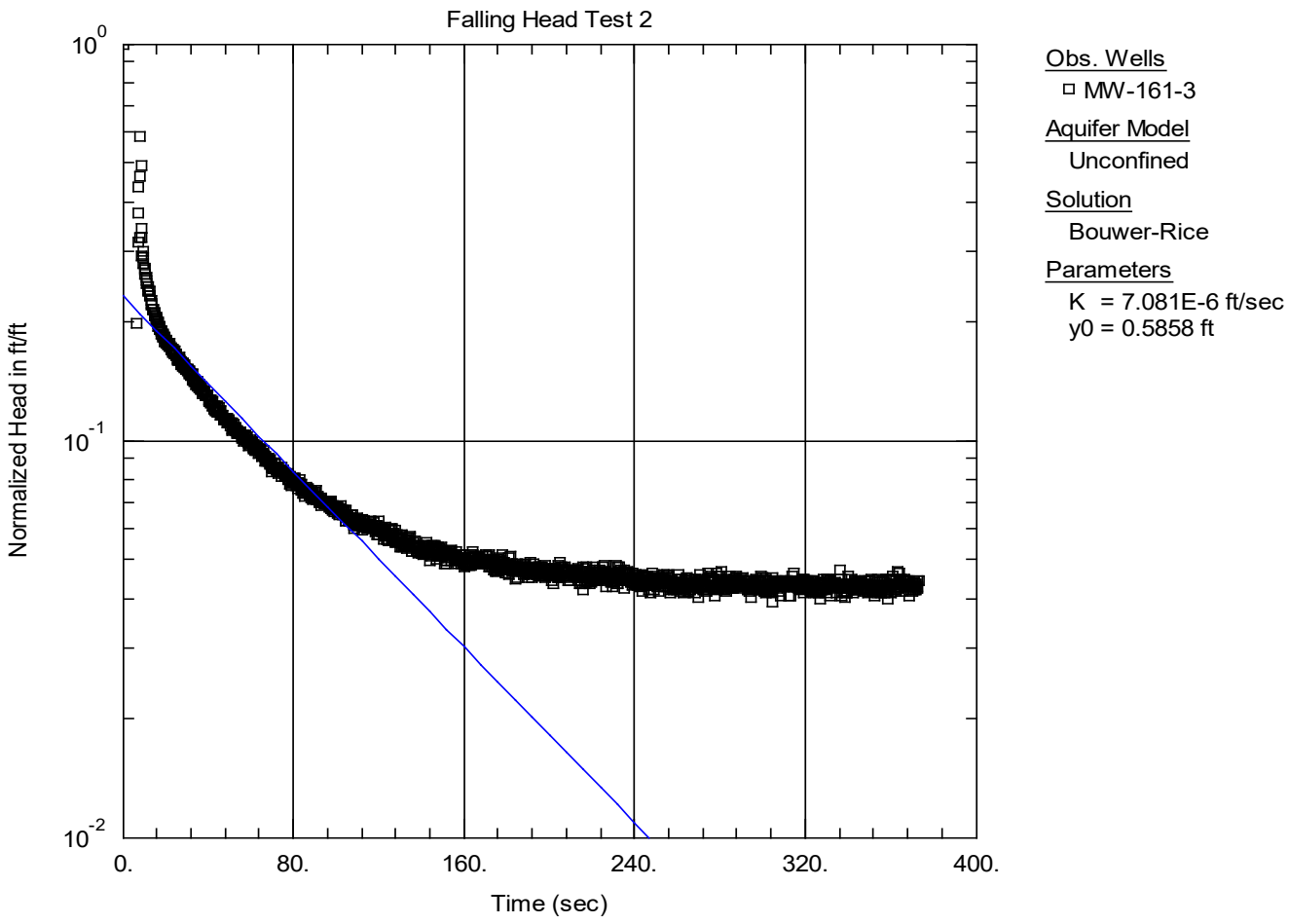
The average hydraulic conductivity calculated using the geometric mean of results of rising head slug testing and AQTESOLV Pro was 0.493 feet/day. The average linear velocity of groundwater was calculated to be approximately 0.00934 feet/day.

B. Restate limitations.

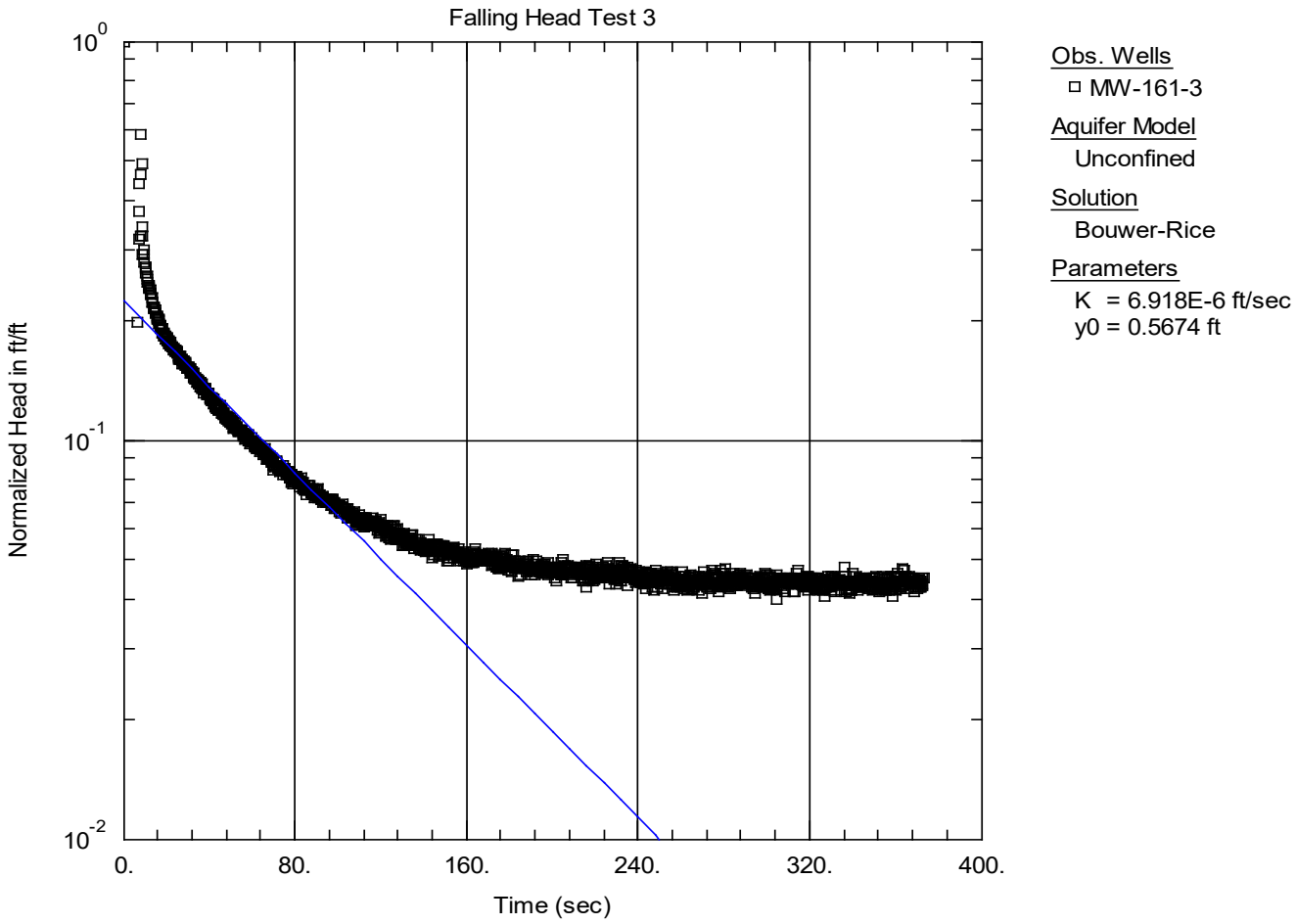
The average linear velocity of groundwater was calculated using the average (geometric mean) hydraulic conductivity values calculated from raw rising head slug test data obtained from two wells. Calculated average hydraulic conductivity values ranged from 0.4012 feet/day at MW-161-4 to 0.6066 feet/day at MW-161-3. An average value (geometric mean) of 0.493 feet/day was used in the velocity calculations. The hydraulic gradient of the site was estimated using groundwater contour maps from January 2018.

Hydraulic Conductivity using AQTESOLV Pro

MW-161-3 Falling Head Tests



Hydraulic Conductivity (K) = 0.6118 ft/ day
Groundwater Velocity (V*x*) = 1.974 ft/day

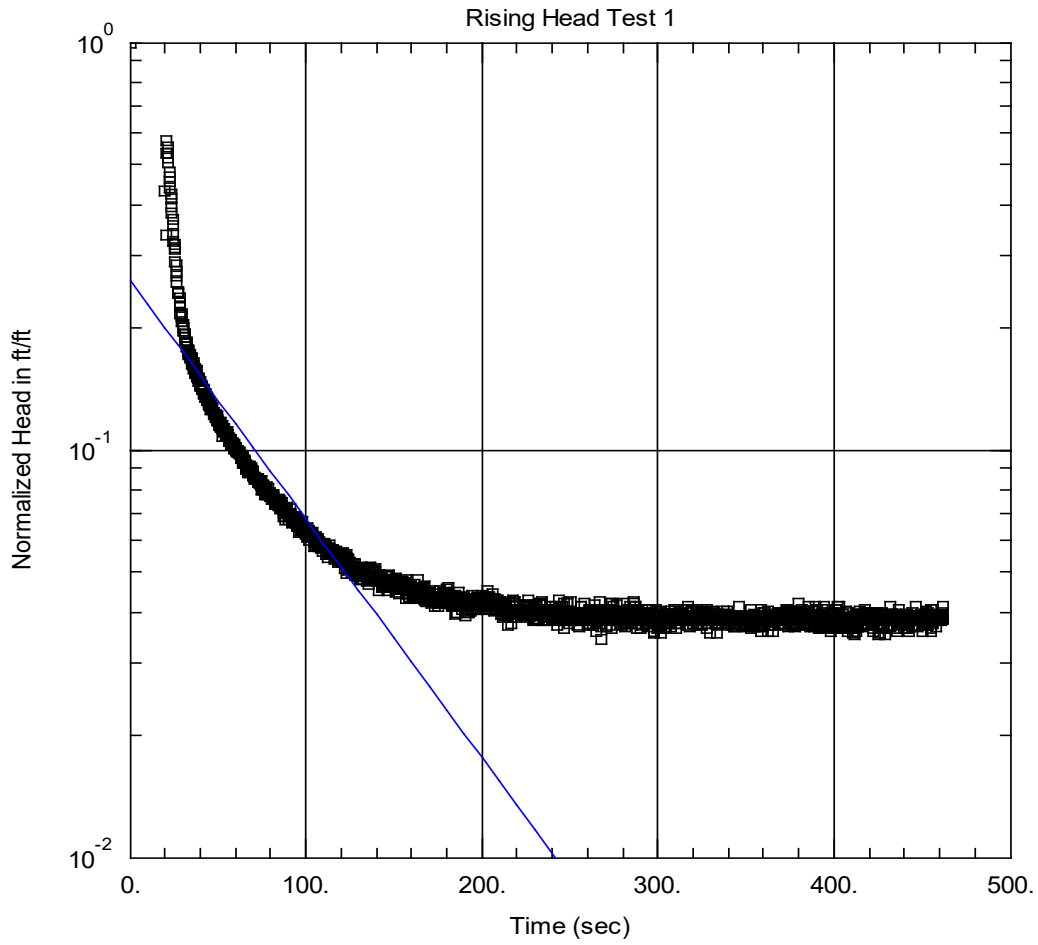


Hydraulic Conductivity (K) = 0.5977 ft/ day
Groundwater Velocity (V*x*) = 1.928 ft/ day

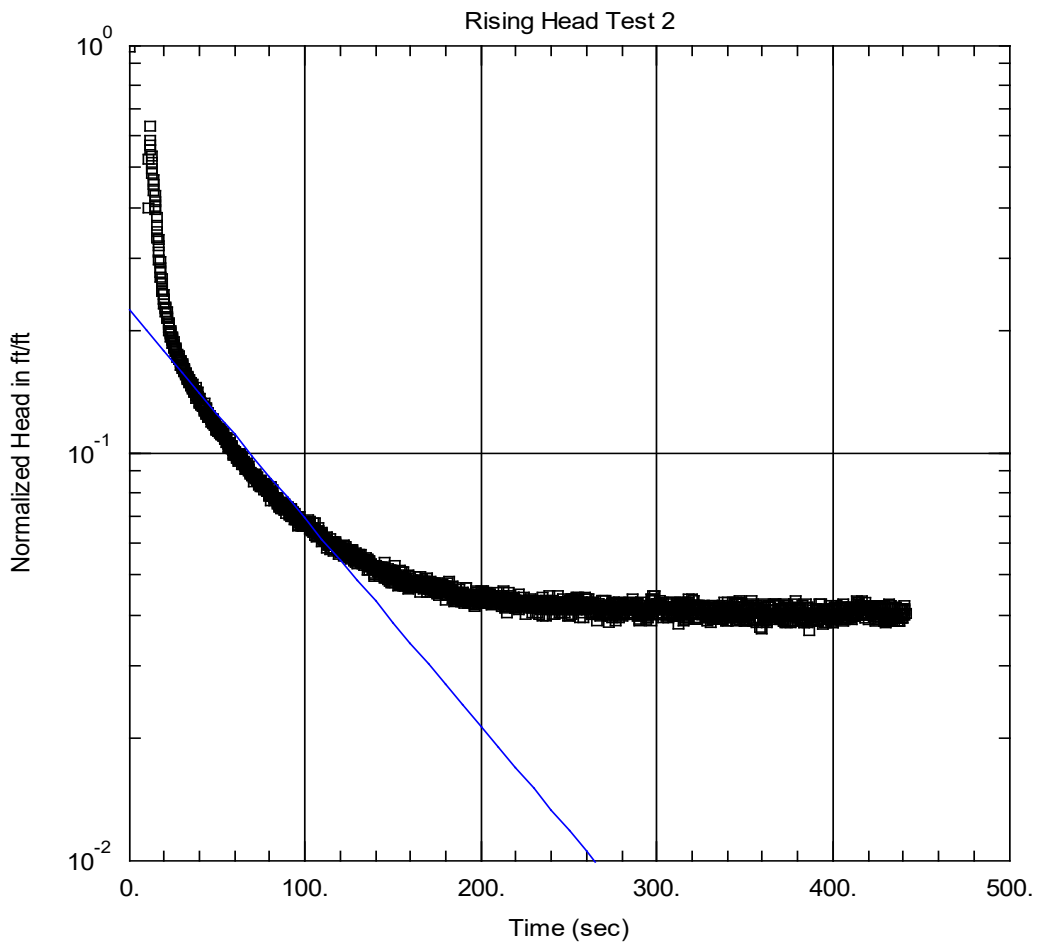
Average Hydraulic Conductivity (K) = 0.6048 ft/ day
Average Groundwater Velocity (V*x*) = 1.951 ft/day

Hydraulic Conductivity using AQTESOLV Pro

MW-161-3 Rising Head Tests



Hydraulic Conductivity (K) = 0.648 ft/ day
Groundwater Velocity (V*x*) = 2.0903 ft/ day



Hydraulic Conductivity (K) = 0.5653 ft/ day
Groundwater Velocity (V*x*) = 1.8236 ft/ day

Average Hydraulic Conductivity (K) = 0.60665 ft/ day
Average Groundwater Velocity (V*x*) = 1.9570 ft/ day

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
15	0.167	6.75	0.499
15.25	0.565	7	0.803
15.5	0.621	7.25	1.105
15.75	0.522	7.5	0.944
16	0.562	7.75	1.471
16.25	1.149	8	1.172
16.5	0.767	8.25	0.823
16.75	1.201	8.5	1.245
17	0.983	8.75	0.863
17.25	1.207	9	0.82
17.5	0.073	9.25	0.738
17.75	1.622	9.5	0.757
18	0.514	9.75	0.734
18.25	0.907	10	0.707
18.5	0.77	10.25	0.687
18.75	0.76	10.5	0.68
19	0.746	10.75	0.664
19.25	0.722	11	0.652
19.5	0.697	11.25	0.639
19.75	0.682	11.5	0.629
20	0.679	11.75	0.618
20.25	0.658	12	0.609
20.5	0.643	12.25	0.603
20.75	0.632	12.5	0.6
21	0.619	12.75	0.587
21.25	0.615	13	0.585
21.5	0.602	13.25	0.573
21.75	0.587	13.5	0.561
22	0.576	13.75	0.558
22.25	0.576	14	0.543
22.788	0.559	14.25	0.54
22.911	0.553	14.5	0.539
23.034	0.55	14.75	0.532
23.25	0.546	15	0.524
23.5	0.536	15.25	0.523
23.75	0.536	15.5	0.516
24	0.526	15.75	0.512
24.25	0.526	16	0.507
24.5	0.52	16.25	0.505
24.75	0.514	16.5	0.501
25	0.507	16.75	0.491
25.25	0.509	17	0.49
25.5	0.504	17.25	0.485
25.75	0.496	17.5	0.488
26	0.492	17.75	0.482
26.25	0.485	18	0.479
26.5	0.484	18.25	0.479
26.75	0.481	18.5	0.469
27	0.479	18.75	0.469
27.25	0.477	19.016	0.46
27.787	0.468	19.25	0.465
27.91	0.468	19.5	0.461
28.033	0.469	19.75	0.457
28.25	0.469	20	0.45
28.5	0.466	20.25	0.45
28.75	0.459	20.5	0.453
29	0.459	20.75	0.446
29.25	0.454	21	0.445
29.5	0.453	21.25	0.443
29.75	0.452	21.5	0.44
30	0.448	21.75	0.436
30.25	0.446	22	0.444
30.5	0.442	22.25	0.436
30.75	0.44	22.5	0.431
31	0.44	22.75	0.431
31.25	0.438	23	0.432
31.5	0.436	23.25	0.425
31.75	0.435	23.5	0.429
32	0.43	23.75	0.422
32.25	0.431	24	0.424
32.787	0.423	24.25	0.424

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
20.25	1.092	11.251	1.333
20.5	0.848	11.501	1.006
20.75	1.351	11.751	1.601
21	1.456	12.001	1.478
21.25	1.404	12.251	1.433
21.5	1.357	12.501	1.395
21.75	1.314	12.751	1.353
22	1.283	13.001	1.305
22.25	1.219	13.251	1.261
22.501	1.187	13.501	1.223
22.75	1.151	13.751	1.186
23	1.11	14.001	1.149
23.25	1.071	14.251	1.11
23.5	1.043	14.501	1.082
23.75	1	14.751	1.045
24	0.967	15.001	1.019
24.25	0.933	15.251	0.995
24.5	0.898	15.501	0.952
24.75	0.858	15.751	0.918
25	0.824	16.001	0.883
25.25	0.81	16.251	0.854
25.5	0.789	16.501	0.841
25.75	0.79	16.751	0.817
26	0.733	17.001	0.789
26.25	0.716	17.251	0.75
26.5	0.691	17.501	0.742
26.75	0.674	17.751	0.72
27	0.653	18.001	0.702
27.456	0.615	18.251	0.683
27.579	0.617	18.501	0.676
27.75	0.615	18.751	0.656
28	0.594	19.001	0.637
28.25	0.579	19.251	0.63
28.5	0.573	19.501	0.618
28.75	0.546	19.992	0.601
29	0.546	20.115	0.6
29.25	0.539	20.251	0.585
29.5	0.534	20.501	0.578
29.75	0.52	20.751	0.569
30	0.511	21.001	0.563
30.25	0.506	21.251	0.56
30.5	0.506	21.501	0.545
30.75	0.493	21.751	0.541
31	0.486	22.001	0.541
31.25	0.487	22.251	0.525
31.5	0.476	22.501	0.522
31.75	0.47	22.751	0.512
32	0.466	23.001	0.505
32.456	0.461	23.251	0.503
32.6	0.452	23.501	0.5
32.75	0.452	23.751	0.493
33	0.444	24.001	0.488
33.25	0.44	24.251	0.486
33.5	0.438	24.711	0.48
33.75	0.435	24.834	0.476
34	0.433	25.001	0.471
34.25	0.432	25.251	0.475
34.5	0.426	25.501	0.464
34.75	0.426	25.751	0.461
35	0.418	26.001	0.458
35.25	0.42	26.251	0.451
35.5	0.411	26.501	0.458
35.75	0.413	26.751	0.448
36	0.41	27.001	0.448
36.25	0.406	27.251	0.439
36.5	0.401	27.501	0.442
36.75	0.397	27.751	0.434
37	0.4	28.001	0.436
37.455	0.392	28.251	0.43
37.578	0.389	28.501	0.431
37.75	0.386	28.751	0.428

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
32.91	0.424	24.5	0.419
33.032	0.424	24.75	0.418
33.25	0.425	25	0.418
33.5	0.414	25.25	0.415
33.75	0.416	25.5	0.408
34	0.416	25.75	0.405
34.25	0.417	26	0.407
34.5	0.412	26.25	0.403
34.75	0.405	26.5	0.409
35	0.408	26.75	0.403
35.25	0.407	27	0.403
35.5	0.408	27.25	0.401
35.75	0.408	27.5	0.397
36	0.404	27.75	0.392
36.25	0.398	28	0.395
36.5	0.398	28.25	0.397
36.75	0.389	28.5	0.391
37	0.393	28.75	0.39
37.25	0.394	29	0.393
37.786	0.391	29.25	0.387
37.909	0.385	29.5	0.383
38.031	0.388	29.75	0.381
38.25	0.385	30	0.382
38.5	0.39	30.25	0.384
38.75	0.383	30.5	0.38
39	0.385	30.75	0.381
39.25	0.376	31	0.379
39.5	0.381	31.25	0.372
39.75	0.375	31.5	0.376
40	0.372	31.75	0.37
40.25	0.377	32	0.374
40.5	0.37	32.25	0.369
40.75	0.367	32.5	0.371
41	0.371	32.75	0.363
41.25	0.364	33	0.36
41.5	0.369	33.25	0.361
41.75	0.363	33.5	0.357
42.001	0.36	33.75	0.358
42.25	0.362	34	0.357
42.786	0.363	34.25	0.356
42.908	0.361	34.5	0.351
43.03	0.354	34.75	0.351
43.25	0.352	35	0.355
43.5	0.359	35.25	0.352
43.75	0.356	35.5	0.348
44	0.349	35.75	0.351
44.25	0.354	36	0.343
44.5	0.351	36.25	0.35
44.75	0.346	36.5	0.342
45	0.351	36.75	0.348
45.25	0.341	37	0.34
45.5	0.342	37.25	0.339
45.75	0.341	37.5	0.336
46	0.338	37.75	0.331
46.25	0.34	38	0.338
46.5	0.335	38.25	0.335
46.75	0.336	38.5	0.339
47	0.335	38.75	0.33
47.25	0.333	39	0.329
47.786	0.332	39.25	0.328
47.908	0.334	39.5	0.329
48.03	0.328	39.751	0.329
48.25	0.327	40	0.328
48.5	0.329	40.25	0.32
48.75	0.328	40.5	0.317
49	0.325	40.75	0.321
49.25	0.322	41	0.314
49.5	0.321	41.25	0.321
49.75	0.323	41.5	0.316
50	0.322	41.75	0.318
50.25	0.315	42	0.31

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
38	0.396	29.001	0.425
38.25	0.383	29.251	0.421
38.5	0.381	29.711	0.414
38.75	0.378	29.833	0.414
39	0.38	30.001	0.418
39.25	0.374	30.251	0.409
39.5	0.374	30.501	0.406
39.75	0.373	30.751	0.413
40	0.365	31.001	0.405
40.25	0.367	31.251	0.407
40.5	0.362	31.501	0.402
40.75	0.363	31.751	0.4
41	0.358	32.001	0.397
41.25	0.36	32.251	0.397
41.5	0.356	32.501	0.397
41.75	0.353	32.751	0.394
42	0.355	33.001	0.389
42.455	0.347	33.251	0.387
42.578	0.348	33.501	0.387
42.75	0.347	33.751	0.381
43	0.342	34.001	0.381
43.25	0.342	34.251	0.378
43.5	0.342	34.71	0.376
43.75	0.337	34.833	0.375
44	0.334	35.001	0.377
44.25	0.335	35.251	0.373
44.5	0.329	35.501	0.369
44.75	0.333	35.751	0.371
45	0.332	36.001	0.365
45.25	0.326	36.251	0.363
45.5	0.325	36.501	0.365
45.75	0.327	36.751	0.361
46	0.316	37.001	0.358
46.25	0.324	37.251	0.355
46.5	0.318	37.501	0.355
46.75	0.321	37.751	0.357
47	0.319	38.001	0.365
47.455	0.309	38.251	0.345
47.577	0.312	38.501	0.35
47.75	0.312	38.751	0.357
48	0.309	39.001	0.348
48.25	0.31	39.251	0.347
48.5	0.309	39.71	0.339
48.75	0.303	39.833	0.345
49	0.307	40.001	0.345
49.25	0.305	40.251	0.345
49.5	0.301	40.501	0.336
49.75	0.298	40.751	0.335
50	0.298	41.001	0.332
50.25	0.295	41.251	0.331
50.5	0.293	41.501	0.333
50.75	0.291	41.751	0.33
51	0.292	42.001	0.329
51.25	0.291	42.251	0.329
51.5	0.295	42.501	0.336
51.75	0.287	42.751	0.322
52	0.287	43.019	0.326
52.455	0.273	43.251	0.321
52.577	0.284	43.501	0.326
52.75	0.291	43.751	0.323
53	0.286	44.001	0.315
53.25	0.284	44.251	0.318
53.5	0.28	44.709	0.315
53.75	0.281	44.832	0.311
54	0.285	45.001	0.309
54.25	0.279	45.251	0.318
54.5	0.279	45.501	0.313
54.75	0.274	45.751	0.31
55	0.281	46.001	0.31
55.25	0.276	46.251	0.311
55.5	0.279	46.501	0.306

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
50.5	0.318	42.25	0.318
50.75	0.314	42.5	0.31
51	0.311	42.75	0.303
51.25	0.319	43	0.308
51.5	0.311	43.25	0.309
51.75	0.306	43.5	0.302
52	0.307	43.75	0.301
52.25	0.312	44	0.307
52.786	0.309	44.25	0.308
52.908	0.305	44.5	0.3
53.03	0.306	44.75	0.299
53.25	0.309	45	0.307
53.5	0.299	45.25	0.301
53.75	0.302	45.5	0.299
54	0.295	45.75	0.294
54.25	0.299	46	0.293
54.5	0.302	46.25	0.301
54.75	0.297	46.5	0.292
55	0.293	46.75	0.294
55.25	0.296	47	0.294
55.5	0.294	47.25	0.287
55.75	0.293	47.5	0.289
56	0.291	47.75	0.286
56.25	0.288	48	0.287
56.5	0.287	48.25	0.288
56.75	0.291	48.5	0.284
57	0.285	48.75	0.28
57.25	0.293	49	0.284
57.785	0.281	49.25	0.287
57.907	0.29	49.5	0.285
58.029	0.285	49.75	0.28
58.25	0.287	50	0.279
58.5	0.284	50.25	0.28
58.75	0.279	50.5	0.28
59	0.281	50.75	0.275
59.25	0.276	51	0.279
59.5	0.276	51.25	0.269
59.75	0.283	51.5	0.27
60	0.281	51.75	0.271
60.25	0.277	52	0.273
60.5	0.273	52.25	0.278
60.75	0.279	52.5	0.27
61	0.274	52.75	0.271
61.25	0.274	53	0.272
61.5	0.273	53.25	0.269
61.75	0.269	53.5	0.264
62	0.266	53.75	0.267
62.25	0.271	54	0.265
62.785	0.272	54.25	0.266
62.907	0.272	54.5	0.266
63.029	0.267	54.75	0.263
63.25	0.268	55	0.266
63.5	0.273	55.25	0.265
63.75	0.268	55.5	0.265
64	0.265	55.75	0.261
64.25	0.266	56	0.259
64.5	0.256	56.25	0.256
64.75	0.26	56.5	0.252
65	0.26	56.75	0.256
65.25	0.262	57	0.26
65.5	0.256	57.25	0.254
65.75	0.264	57.5	0.26
66	0.262	57.75	0.258
66.25	0.251	58	0.254
66.5	0.257	58.25	0.251
66.75	0.261	58.5	0.258
67	0.257	58.75	0.249
67.25	0.258	59	0.249
67.785	0.255	59.25	0.245
67.907	0.255	59.5	0.254
68.029	0.256	59.75	0.249

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
55.75	0.276	46.751	0.305
56	0.268	47.001	0.306
56.25	0.266	47.251	0.301
56.5	0.266	47.501	0.303
56.75	0.271	47.751	0.305
57	0.267	48.001	0.302
57.454	0.269	48.251	0.298
57.576	0.263	48.501	0.295
57.75	0.262	48.751	0.297
58	0.264	49.001	0.296
58.25	0.261	49.251	0.29
58.5	0.262	49.709	0.288
58.75	0.262	49.832	0.293
59	0.258	50.001	0.289
59.25	0.255	50.251	0.289
59.5	0.256	50.501	0.286
59.75	0.26	50.751	0.287
60	0.253	51.001	0.289
60.25	0.252	51.251	0.286
60.5	0.252	51.501	0.29
60.75	0.256	51.751	0.29
61	0.253	52.001	0.282
61.25	0.249	52.251	0.281
61.5	0.249	52.501	0.286
61.75	0.249	52.751	0.281
62	0.25	53.001	0.279
62.454	0.248	53.251	0.282
62.576	0.25	53.501	0.279
62.75	0.245	53.751	0.278
63	0.243	54.001	0.28
63.25	0.242	54.251	0.275
63.5	0.242	54.709	0.276
63.75	0.239	54.832	0.274
64	0.243	55.001	0.276
64.25	0.24	55.251	0.267
64.5	0.235	55.501	0.275
64.75	0.238	55.751	0.267
65	0.236	56.001	0.268
65.25	0.235	56.251	0.262
65.5	0.236	56.501	0.268
65.75	0.228	56.751	0.266
66	0.233	57.001	0.273
66.25	0.226	57.251	0.268
66.5	0.227	57.501	0.262
66.75	0.231	57.751	0.264
67	0.223	58.001	0.261
67.454	0.231	58.251	0.264
67.577	0.222	58.501	0.26
67.75	0.23	58.751	0.258
68	0.224	59.001	0.252
68.25	0.23	59.251	0.256
68.5	0.223	59.708	0.257
68.75	0.224	59.831	0.249
69	0.229	60.001	0.254
69.25	0.226	60.251	0.255
69.5	0.22	60.501	0.254
69.75	0.219	60.751	0.249
70	0.224	61.001	0.253
70.25	0.222	61.251	0.25
70.5	0.217	61.501	0.246
70.75	0.215	61.751	0.248
71	0.214	62.001	0.244
71.25	0.216	62.251	0.252
71.5	0.214	62.501	0.241
71.75	0.214	62.751	0.244
72	0.215	63.001	0.244
72.453	0.21	63.251	0.251
72.576	0.211	63.501	0.249
72.75	0.214	63.751	0.237
73.009	0.214	64.001	0.248
73.25	0.212	64.251	0.244

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
68.25	0.252	60	0.247
68.5	0.251	60.25	0.249
68.75	0.247	60.5	0.251
69	0.253	60.935	0.25
69.25	0.25	61.057	0.247
69.5	0.249	61.25	0.243
69.75	0.252	61.5	0.241
70	0.251	61.75	0.243
70.25	0.244	62	0.243
70.5	0.249	62.25	0.245
70.75	0.247	62.5	0.239
71	0.24	62.75	0.239
71.25	0.245	63	0.243
71.5	0.244	63.25	0.241
71.75	0.243	63.5	0.241
72	0.246	63.75	0.24
72.25	0.243	64	0.235
72.784	0.242	64.25	0.24
72.906	0.24	64.5	0.238
73.028	0.241	64.75	0.237
73.25	0.238	65	0.235
73.5	0.233	65.25	0.234
73.75	0.238	65.5	0.23
74	0.237	65.934	0.238
74.25	0.237	66.057	0.233
74.5	0.234	66.25	0.232
74.75	0.234	66.5	0.231
75	0.237	66.75	0.23
75.25	0.236	67	0.224
75.5	0.235	67.25	0.225
75.75	0.236	67.5	0.227
76	0.223	67.75	0.228
76.25	0.232	68	0.228
76.5	0.233	68.25	0.225
76.75	0.225	68.5	0.225
77	0.227	68.75	0.223
77.25	0.226	69	0.22
77.784	0.229	69.25	0.226
77.906	0.228	69.5	0.22
78.028	0.224	69.75	0.221
78.25	0.231	70	0.217
78.5	0.224	70.25	0.21
78.75	0.23	70.5	0.216
79	0.224	71.031	0.214
79.25	0.224	71.154	0.22
79.5	0.222	71.276	0.217
79.75	0.225	71.5	0.216
80	0.222	71.75	0.222
80.25	0.228	72	0.217
80.5	0.226	72.25	0.214
80.75	0.225	72.5	0.213
81	0.228	72.75	0.216
81.25	0.219	73	0.209
81.5	0.226	73.25	0.213
81.75	0.22	73.5	0.21
82	0.219	73.75	0.213
82.25	0.227	74	0.213
82.783	0.22	74.25	0.206
82.906	0.219	74.5	0.217
83.028	0.221	74.75	0.213
83.25	0.222	75	0.212
83.5	0.216	75.25	0.212
83.75	0.216	75.5	0.21
84	0.216	75.934	0.206
84.25	0.217	76.057	0.209
84.5	0.217	76.25	0.209
84.75	0.213	76.5	0.207
85	0.214	76.75	0.205
85.25	0.213	77	0.208
85.5	0.213	77.25	0.201
85.75	0.218	77.5	0.209

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
73.5	0.21	64.708	0.24
73.75	0.211	64.83	0.237
74	0.209	65.001	0.242
74.25	0.21	65.251	0.237
74.5	0.208	65.501	0.238
74.75	0.212	65.751	0.236
75	0.208	66.001	0.237
75.25	0.202	66.251	0.235
75.5	0.208	66.501	0.231
75.75	0.204	66.751	0.235
76	0.208	67.001	0.233
76.25	0.201	67.251	0.231
76.5	0.201	67.501	0.238
76.75	0.202	67.751	0.231
77	0.197	68.001	0.228
77.453	0.197	68.251	0.23
77.575	0.205	68.501	0.235
77.75	0.197	68.751	0.225
78	0.198	69.001	0.226
78.25	0.199	69.251	0.226
78.5	0.196	69.707	0.223
78.75	0.203	69.83	0.222
79	0.199	70.001	0.223
79.25	0.196	70.251	0.224
79.5	0.194	70.501	0.223
79.75	0.198	70.751	0.221
80	0.199	71.001	0.221
80.25	0.197	71.251	0.215
80.5	0.195	71.501	0.225
80.75	0.195	71.751	0.222
81	0.192	72.001	0.219
81.25	0.194	72.251	0.22
81.5	0.191	72.501	0.216
81.75	0.196	72.751	0.22
82	0.193	73.001	0.22
82.452	0.191	73.267	0.216
82.575	0.188	73.501	0.216
82.75	0.187	73.751	0.215
83	0.186	74.001	0.211
83.25	0.188	74.251	0.213
83.5	0.192	74.707	0.209
83.75	0.188	74.83	0.214
84	0.19	75.001	0.217
84.25	0.191	75.251	0.216
84.5	0.192	75.501	0.212
84.75	0.184	75.751	0.209
85	0.185	76.001	0.209
85.25	0.189	76.251	0.213
85.5	0.181	76.501	0.21
85.75	0.187	76.751	0.206
86	0.188	77.001	0.213
86.25	0.183	77.251	0.209
86.5	0.185	77.501	0.211
86.75	0.183	77.751	0.206
87	0.176	78.001	0.213
87.452	0.174	78.251	0.204
87.574	0.182	78.501	0.203
87.75	0.179	78.751	0.204
88	0.17	79.001	0.207
88.25	0.18	79.251	0.204
88.5	0.174	79.706	0.202
88.75	0.179	79.83	0.198
89	0.178	80.001	0.2
89.25	0.181	80.251	0.209
89.5	0.177	80.501	0.207
89.75	0.183	80.751	0.198
90	0.177	81.001	0.193
90.25	0.171	81.251	0.199
90.5	0.175	81.501	0.206
90.75	0.182	81.751	0.202
91	0.173	82.001	0.198

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
86	0.214	77.75	0.202
86.25	0.217	78	0.205
86.5	0.213	78.25	0.197
86.75	0.208	78.5	0.205
87	0.214	78.75	0.205
87.25	0.213	79	0.2
87.783	0.213	79.25	0.194
87.905	0.207	79.5	0.198
88.027	0.212	79.75	0.203
88.25	0.209	80	0.198
88.5	0.212	80.25	0.201
88.75	0.211	80.5	0.204
89	0.214	80.934	0.2
89.25	0.206	81.065	0.199
89.5	0.208	81.25	0.199
89.75	0.208	81.5	0.198
90	0.209	81.75	0.195
90.25	0.202	82	0.197
90.5	0.203	82.25	0.198
90.75	0.204	82.5	0.191
91	0.204	82.75	0.201
91.25	0.211	83	0.197
91.5	0.202	83.25	0.194
91.75	0.196	83.5	0.196
92	0.201	83.75	0.189
92.25	0.204	84	0.191
92.5	0.202	84.25	0.192
92.939	0.208	84.5	0.187
93.061	0.207	84.75	0.192
93.25	0.2	85	0.183
93.5	0.199	85.25	0.187
93.75	0.203	85.5	0.19
94	0.196	85.935	0.188
94.25	0.201	86.058	0.192
94.5	0.197	86.25	0.193
94.75	0.2	86.5	0.188
95	0.195	86.75	0.189
95.25	0.195	87	0.192
95.5	0.198	87.25	0.189
95.75	0.191	87.5	0.187
96	0.197	87.75	0.185
96.25	0.196	88	0.186
96.5	0.195	88.25	0.182
96.75	0.199	88.5	0.189
97	0.191	88.75	0.188
97.25	0.197	89	0.187
97.797	0.195	89.25	0.185
97.919	0.195	89.5	0.18
98.043	0.199	89.75	0.183
98.25	0.191	90	0.188
98.5	0.192	90.25	0.181
98.75	0.197	90.5	0.18
99	0.194	90.934	0.19
99.25	0.194	91.057	0.181
99.5	0.192	91.25	0.183
99.75	0.188	91.5	0.179
100	0.194	91.75	0.182
100.25	0.187	92	0.179
100.5	0.186	92.25	0.178
100.75	0.191	92.5	0.177
101	0.191	92.75	0.174
101.25	0.188	93	0.18
101.5	0.185	93.25	0.181
101.75	0.188	93.5	0.176
102	0.192	93.75	0.176
102.25	0.189	94	0.177
102.5	0.19	94.25	0.177
102.946	0.191	94.5	0.178
103.069	0.186	94.75	0.175
103.25	0.184	95	0.177
103.5	0.19	95.25	0.176

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
91.25	0.177	82.251	0.197
91.5	0.175	82.501	0.196
91.75	0.17	82.751	0.193
92	0.172	83.001	0.196
92.451	0.169	83.251	0.196
92.573	0.168	83.501	0.196
92.75	0.174	83.751	0.194
93	0.172	84.001	0.193
93.25	0.171	84.251	0.197
93.5	0.174	84.706	0.19
93.75	0.169	84.829	0.192
94	0.167	85.001	0.187
94.25	0.173	85.251	0.189
94.5	0.172	85.501	0.191
94.75	0.17	85.751	0.188
95	0.169	86.001	0.192
95.25	0.164	86.251	0.189
95.5	0.164	86.501	0.192
95.75	0.168	86.751	0.184
96	0.165	87.001	0.192
96.25	0.165	87.251	0.185
96.5	0.159	87.501	0.189
96.75	0.163	87.751	0.192
97	0.166	88.001	0.183
97.451	0.16	88.251	0.184
97.573	0.16	88.501	0.188
97.75	0.161	88.751	0.189
98	0.169	89.001	0.185
98.25	0.162	89.251	0.18
98.5	0.158	89.706	0.187
98.75	0.16	89.829	0.187
99	0.158	90.001	0.184
99.25	0.16	90.251	0.187
99.5	0.161	90.501	0.184
99.75	0.162	90.751	0.18
100	0.157	91.001	0.18
100.25	0.162	91.251	0.185
100.5	0.163	91.501	0.178
100.75	0.161	91.751	0.184
101	0.156	92.001	0.183
101.25	0.155	92.251	0.177
101.5	0.156	92.501	0.179
101.75	0.16	92.751	0.179
102	0.152	93.001	0.18
102.45	0.155	93.251	0.182
102.572	0.158	93.501	0.177
102.75	0.158	93.751	0.179
103	0.157	94.001	0.174
103.257	0.155	94.251	0.178
103.5	0.156	94.706	0.175
103.75	0.154	94.828	0.173
104	0.158	95.001	0.176
104.25	0.154	95.251	0.173
104.5	0.147	95.501	0.177
104.75	0.151	95.751	0.171
105	0.15	96.001	0.169
105.25	0.148	96.251	0.177
105.5	0.155	96.501	0.168
105.75	0.155	96.751	0.177
106	0.152	97.001	0.172
106.25	0.153	97.251	0.173
106.5	0.152	97.501	0.168
106.75	0.148	97.751	0.169
107	0.153	98.001	0.171
107.45	0.147	98.251	0.17
107.572	0.147	98.501	0.167
107.75	0.148	98.751	0.168
108	0.15	99.001	0.17
108.25	0.147	99.251	0.172
108.5	0.147	99.705	0.172
108.75	0.147	99.828	0.169

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
103.75	0.189	95.5	0.175
104	0.184	95.934	0.177
104.25	0.187	96.057	0.177
104.5	0.192	96.25	0.175
104.75	0.186	96.5	0.175
105	0.182	96.75	0.172
105.25	0.188	97	0.178
105.5	0.184	97.25	0.178
105.75	0.187	97.5	0.171
106	0.183	97.75	0.177
106.25	0.182	98	0.178
106.5	0.186	98.25	0.174
106.75	0.187	98.5	0.172
107	0.182	98.75	0.169
107.25	0.18	99	0.172
107.812	0.18	99.25	0.17
107.934	0.178	99.5	0.168
108.057	0.183	99.75	0.172
108.25	0.178	100	0.172
108.5	0.175	100.25	0.171
108.75	0.183	100.5	0.166
109	0.18	100.934	0.168
109.25	0.174	101.058	0.172
109.5	0.179	101.259	0.17
109.75	0.179	101.5	0.164
110	0.176	101.75	0.17
110.25	0.177	102	0.173
110.5	0.178	102.25	0.169
110.75	0.177	102.5	0.17
111	0.178	102.75	0.168
111.25	0.181	103	0.165
111.5	0.178	103.25	0.169
111.75	0.177	103.5	0.168
112	0.178	103.75	0.169
112.25	0.178	104	0.165
112.812	0.178	104.25	0.159
112.941	0.174	104.5	0.165
113.071	0.182	104.75	0.159
113.25	0.178	105	0.169
113.5	0.179	105.25	0.165
113.75	0.172	105.5	0.163
114	0.175	105.934	0.159
114.25	0.177	106.057	0.162
114.5	0.177	106.25	0.16
114.75	0.173	106.5	0.16
115	0.176	106.75	0.159
115.25	0.177	107	0.159
115.5	0.177	107.25	0.164
115.75	0.174	107.5	0.165
116	0.176	107.75	0.159
116.25	0.173	108	0.161
116.5	0.172	108.25	0.154
116.75	0.172	108.5	0.156
117	0.174	108.75	0.152
117.25	0.17	109	0.156
117.811	0.172	109.25	0.155
117.933	0.171	109.5	0.157
118.056	0.169	109.75	0.158
118.25	0.178	110	0.155
118.5	0.178	110.25	0.162
118.75	0.167	110.5	0.155
119	0.17	110.934	0.159
119.25	0.166	111.057	0.159
119.5	0.171	111.25	0.154
119.75	0.17	111.5	0.156
120	0.167	111.75	0.159
120.25	0.166	112	0.155
120.5	0.169	112.25	0.151
120.75	0.172	112.5	0.16
121	0.169	112.75	0.153
121.25	0.166	113	0.156

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
109	0.145	100.001	0.17
109.25	0.149	100.251	0.17
109.5	0.143	100.501	0.171
109.75	0.146	100.751	0.168
110	0.145	101.001	0.167
110.25	0.149	101.251	0.169
110.5	0.147	101.501	0.168
110.75	0.147	101.751	0.17
111	0.148	102.001	0.168
111.25	0.146	102.251	0.173
111.5	0.145	102.501	0.171
111.75	0.14	102.751	0.172
112	0.145	103.001	0.171
112.45	0.144	103.251	0.165
112.572	0.137	103.515	0.166
112.75	0.143	103.751	0.165
113	0.145	104.001	0.163
113.25	0.14	104.251	0.17
113.5	0.148	104.705	0.164
113.75	0.141	104.828	0.162
114	0.144	105.001	0.165
114.25	0.142	105.251	0.164
114.5	0.14	105.501	0.163
114.75	0.14	105.751	0.158
115	0.144	106.001	0.17
115.25	0.14	106.251	0.16
115.5	0.141	106.501	0.158
115.75	0.14	106.751	0.157
116	0.142	107.001	0.161
116.25	0.141	107.251	0.163
116.5	0.136	107.501	0.166
116.75	0.138	107.751	0.16
117	0.141	108.001	0.163
117.449	0.139	108.251	0.158
117.571	0.143	108.501	0.159
117.75	0.14	108.751	0.16
118	0.135	109.001	0.158
118.25	0.136	109.251	0.16
118.5	0.134	109.705	0.161
118.75	0.139	109.827	0.159
119	0.137	110.001	0.153
119.25	0.138	110.251	0.156
119.5	0.137	110.501	0.156
119.75	0.14	110.751	0.156
120	0.141	111.001	0.154
120.25	0.134	111.251	0.155
120.5	0.14	111.501	0.155
120.75	0.141	111.751	0.155
121	0.137	112.001	0.157
121.25	0.138	112.251	0.155
121.5	0.134	112.501	0.148
121.75	0.139	112.751	0.157
122	0.136	113.001	0.151
122.448	0.136	113.251	0.152
122.572	0.129	113.501	0.151
122.75	0.137	113.751	0.151
123	0.133	114.001	0.15
123.25	0.14	114.251	0.153
123.5	0.126	114.705	0.156
123.75	0.135	114.827	0.147
124	0.136	115.001	0.153
124.25	0.128	115.251	0.148
124.5	0.136	115.501	0.153
124.75	0.134	115.751	0.15
125	0.129	116.001	0.146
125.25	0.13	116.251	0.148
125.5	0.126	116.501	0.153
125.75	0.129	116.751	0.145
126	0.133	117.001	0.15
126.25	0.131	117.251	0.152
126.5	0.13	117.501	0.153

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
121.5	0.17	113.25	0.159
121.75	0.167	113.5	0.158
122	0.164	113.75	0.156
122.25	0.173	114	0.155
122.81	0.165	114.25	0.153
122.933	0.168	114.5	0.154
123.062	0.161	114.75	0.152
123.25	0.17	115	0.154
123.5	0.165	115.25	0.153
123.75	0.17	115.5	0.153
124	0.167	115.935	0.155
124.25	0.163	116.057	0.159
124.5	0.16	116.25	0.156
124.75	0.171	116.5	0.154
125	0.16	116.75	0.154
125.25	0.166	117	0.154
125.5	0.164	117.25	0.154
125.75	0.162	117.5	0.155
126	0.167	117.75	0.152
126.25	0.165	118	0.157
126.5	0.16	118.25	0.154
126.75	0.163	118.5	0.149
127	0.166	118.75	0.154
127.25	0.163	119	0.155
127.81	0.165	119.25	0.151
127.933	0.166	119.5	0.146
128.055	0.162	119.75	0.147
128.25	0.162	120	0.15
128.5	0.161	120.25	0.158
128.75	0.161	120.5	0.152
129	0.162	120.934	0.151
129.25	0.165	121.057	0.151
129.5	0.162	121.25	0.152
129.75	0.162	121.5	0.151
130	0.159	121.75	0.151
130.25	0.162	122	0.149
130.5	0.163	122.25	0.15
130.75	0.163	122.5	0.148
131	0.157	122.75	0.143
131.25	0.165	123	0.149
131.5	0.161	123.25	0.153
131.75	0.157	123.5	0.145
132	0.16	123.75	0.142
132.25	0.159	124	0.146
132.81	0.158	124.25	0.143
132.932	0.159	124.5	0.147
133.055	0.16	124.75	0.141
133.25	0.162	125	0.151
133.5	0.164	125.25	0.152
133.75	0.161	125.5	0.146
134	0.159	125.934	0.152
134.25	0.162	126.057	0.143
134.5	0.162	126.25	0.143
134.75	0.16	126.5	0.145
135	0.163	126.75	0.148
135.25	0.157	127	0.141
135.5	0.158	127.25	0.142
135.75	0.163	127.5	0.142
136	0.16	127.75	0.15
136.25	0.156	128	0.14
136.5	0.152	128.25	0.144
136.75	0.154	128.5	0.146
137	0.158	128.75	0.14
137.25	0.153	129	0.144
137.809	0.152	129.25	0.143
137.933	0.159	129.5	0.142
138.056	0.161	129.75	0.144
138.25	0.155	130	0.143
138.5	0.155	130.25	0.14
138.75	0.155	130.5	0.136
139	0.153	130.934	0.146

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
126.75	0.127	117.751	0.15
127	0.133	118.001	0.147
127.448	0.133	118.251	0.147
127.57	0.129	118.501	0.148
127.75	0.125	118.751	0.148
128	0.125	119.001	0.149
128.25	0.129	119.251	0.143
128.5	0.126	119.705	0.144
128.75	0.129	119.827	0.148
129	0.125	120.001	0.146
129.25	0.126	120.251	0.146
129.5	0.129	120.501	0.149
129.75	0.124	120.751	0.145
130	0.126	121.001	0.146
130.25	0.124	121.251	0.146
130.5	0.124	121.501	0.148
130.75	0.122	121.751	0.15
131	0.128	122.001	0.143
131.25	0.125	122.251	0.141
131.5	0.121	122.501	0.146
131.75	0.13	122.751	0.149
132	0.129	123.001	0.143
132.448	0.121	123.251	0.141
132.57	0.126	123.501	0.148
132.75	0.128	123.751	0.144
133	0.129	124.001	0.143
133.25	0.125	124.251	0.146
133.504	0.126	124.704	0.14
133.75	0.128	124.826	0.147
134	0.128	125.001	0.143
134.25	0.12	125.251	0.144
134.5	0.123	125.501	0.145
134.75	0.127	125.751	0.139
135	0.124	126.001	0.147
135.25	0.118	126.251	0.14
135.5	0.129	126.501	0.145
135.75	0.122	126.751	0.146
136	0.127	127.001	0.141
136.25	0.124	127.251	0.142
136.5	0.121	127.501	0.138
136.75	0.124	127.751	0.137
137	0.131	128.001	0.143
137.447	0.128	128.251	0.142
137.57	0.122	128.501	0.138
137.75	0.124	128.751	0.144
138	0.124	129.001	0.136
138.25	0.122	129.251	0.14
138.5	0.121	129.703	0.138
138.75	0.128	129.826	0.135
139	0.127	130.001	0.142
139.25	0.129	130.251	0.141
139.5	0.125	130.501	0.143
139.75	0.121	130.751	0.138
140	0.121	131.001	0.139
140.25	0.122	131.251	0.142
140.5	0.121	131.501	0.136
140.75	0.122	131.751	0.142
141	0.125	132.001	0.139
141.25	0.122	132.251	0.139
141.5	0.121	132.501	0.137
141.75	0.114	132.751	0.137
142	0.12	133.001	0.135
142.447	0.12	133.251	0.138
142.57	0.122	133.501	0.136
142.75	0.125	133.762	0.136
143	0.116	134.001	0.134
143.25	0.117	134.251	0.14
143.5	0.123	134.703	0.138
143.75	0.119	134.825	0.137
144	0.119	135.001	0.139
144.25	0.119	135.251	0.13

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
139.25	0.151	131.057	0.136
139.5	0.155	131.25	0.145
139.75	0.148	131.507	0.139
140	0.152	131.75	0.136
140.25	0.154	132	0.138
140.5	0.16	132.25	0.139
140.75	0.159	132.5	0.138
141	0.151	132.75	0.137
141.25	0.158	133	0.142
141.5	0.158	133.25	0.135
141.75	0.151	133.5	0.141
142	0.153	133.75	0.144
142.25	0.153	134	0.137
142.809	0.161	134.25	0.14
142.932	0.154	134.5	0.139
143.055	0.16	134.75	0.144
143.25	0.158	135	0.145
143.5	0.158	135.25	0.133
143.75	0.15	135.5	0.133
144	0.158	135.934	0.14
144.25	0.153	136.057	0.137
144.5	0.152	136.25	0.138
144.75	0.159	136.5	0.136
145	0.161	136.75	0.141
145.25	0.153	137	0.136
145.5	0.158	137.25	0.136
145.75	0.156	137.5	0.135
146	0.155	137.75	0.133
146.25	0.15	138	0.133
146.5	0.157	138.25	0.132
146.75	0.156	138.5	0.138
147	0.156	138.75	0.136
147.25	0.154	139	0.136
147.809	0.154	139.25	0.135
147.931	0.158	139.5	0.133
148.055	0.153	139.75	0.134
148.25	0.159	140	0.132
148.5	0.15	140.25	0.132
148.75	0.152	140.5	0.133
149	0.153	140.935	0.134
149.25	0.15	141.057	0.137
149.5	0.158	141.25	0.131
149.75	0.156	141.5	0.136
150	0.155	141.75	0.137
150.25	0.153	142	0.132
150.5	0.152	142.25	0.133
150.75	0.157	142.5	0.134
151	0.152	142.75	0.14
151.25	0.156	143	0.132
151.5	0.157	143.25	0.132
151.75	0.158	143.5	0.133
152	0.146	143.75	0.135
152.25	0.154	144	0.126
152.809	0.155	144.25	0.132
152.931	0.153	144.5	0.131
153.056	0.158	144.75	0.137
153.25	0.15	145	0.129
153.5	0.143	145.25	0.133
153.75	0.154	145.5	0.135
154	0.154	145.934	0.137
154.25	0.147	146.057	0.133
154.5	0.156	146.25	0.135
154.75	0.152	146.5	0.137
155	0.149	146.75	0.134
155.25	0.149	147	0.127
155.5	0.147	147.25	0.136
155.75	0.153	147.5	0.136
156	0.148	147.75	0.131
156.25	0.151	148	0.133
156.5	0.146	148.25	0.129
156.75	0.149	148.5	0.134

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
144.5	0.117	135.501	0.137
144.75	0.118	135.751	0.139
145	0.121	136.001	0.134
145.25	0.116	136.251	0.133
145.5	0.12	136.501	0.131
145.75	0.12	136.751	0.138
146	0.114	137.001	0.136
146.25	0.124	137.251	0.134
146.5	0.12	137.501	0.134
146.75	0.116	137.751	0.135
147	0.125	138.001	0.134
147.447	0.119	138.251	0.133
147.569	0.119	138.501	0.132
147.75	0.117	138.751	0.132
148	0.121	139.001	0.133
148.25	0.117	139.251	0.128
148.5	0.118	139.702	0.127
148.75	0.118	139.825	0.126
149	0.12	140.001	0.133
149.25	0.116	140.251	0.134
149.5	0.121	140.501	0.132
149.75	0.117	140.751	0.132
150	0.122	141.001	0.13
150.25	0.116	141.251	0.133
150.5	0.118	141.501	0.129
150.75	0.123	141.751	0.133
151	0.117	142.001	0.133
151.25	0.115	142.251	0.128
151.5	0.113	142.501	0.129
151.75	0.116	142.751	0.126
152	0.116	143.001	0.133
152.446	0.115	143.251	0.13
152.569	0.112	143.501	0.129
152.75	0.115	143.751	0.13
153	0.115	144.001	0.133
153.25	0.115	144.251	0.13
153.5	0.115	144.702	0.129
153.75	0.119	144.824	0.125
154	0.12	145.001	0.129
154.25	0.118	145.251	0.129
154.5	0.117	145.501	0.136
154.75	0.117	145.751	0.129
155	0.12	146.001	0.129
155.25	0.117	146.251	0.125
155.5	0.119	146.501	0.127
155.75	0.115	146.751	0.124
156	0.118	147.001	0.127
156.25	0.116	147.251	0.128
156.5	0.121	147.501	0.132
156.75	0.116	147.751	0.123
157	0.109	148.001	0.131
157.446	0.112	148.251	0.129
157.569	0.115	148.501	0.13
157.75	0.116	148.751	0.131
158	0.112	149.001	0.126
158.25	0.114	149.251	0.122
158.5	0.116	149.701	0.121
158.75	0.117	149.824	0.128
159	0.109	150.001	0.129
159.25	0.11	150.251	0.125
159.5	0.114	150.501	0.125
159.75	0.117	150.751	0.134
160	0.115	151.001	0.128
160.25	0.113	151.251	0.121
160.5	0.11	151.501	0.126
160.75	0.111	151.751	0.126
161	0.112	152.001	0.127
161.25	0.111	152.251	0.124
161.5	0.118	152.501	0.124
161.75	0.109	152.751	0.119
162	0.112	153.001	0.125

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
157	0.151	148.75	0.13
157.25	0.148	149	0.135
157.809	0.151	149.25	0.129
157.931	0.151	149.5	0.129
158.055	0.15	149.75	0.136
158.25	0.148	150	0.132
158.5	0.149	150.25	0.131
158.75	0.147	150.5	0.133
159	0.149	150.935	0.133
159.25	0.142	151.057	0.131
159.5	0.151	151.25	0.124
159.75	0.151	151.5	0.124
160	0.152	151.75	0.126
160.25	0.149	152	0.126
160.5	0.152	152.25	0.128
160.75	0.142	152.5	0.13
161	0.152	152.75	0.128
161.25	0.147	153	0.132
161.5	0.146	153.25	0.133
161.75	0.151	153.5	0.129
162	0.152	153.75	0.133
162.25	0.152	154	0.134
162.808	0.151	154.25	0.126
162.931	0.148	154.5	0.131
163.054	0.15	154.75	0.13
163.25	0.147	155	0.131
163.5	0.151	155.25	0.131
163.75	0.144	155.5	0.128
164	0.149	155.935	0.126
164.25	0.146	156.058	0.133
164.5	0.152	156.25	0.126
164.75	0.151	156.5	0.129
165	0.147	156.75	0.127
165.25	0.149	157	0.127
165.5	0.143	157.25	0.124
165.75	0.143	157.5	0.127
166	0.148	157.75	0.13
166.25	0.149	158	0.127
166.5	0.148	158.25	0.131
166.75	0.143	158.5	0.126
167	0.149	158.75	0.124
167.25	0.143	159	0.128
167.808	0.147	159.25	0.128
167.931	0.143	159.5	0.124
168.055	0.15	159.75	0.127
168.25	0.146	160	0.122
168.5	0.142	160.25	0.125
168.75	0.148	160.5	0.127
169	0.143	160.935	0.123
169.25	0.142	161.057	0.128
169.5	0.142	161.25	0.124
169.75	0.143	161.5	0.123
170	0.148	161.755	0.124
170.25	0.144	162	0.125
170.5	0.15	162.25	0.123
170.75	0.146	162.5	0.128
171	0.144	162.75	0.123
171.25	0.144	163	0.123
171.5	0.141	163.25	0.131
171.75	0.148	163.5	0.124
172	0.142	163.75	0.13
172.25	0.14	164	0.133
172.808	0.146	164.25	0.128
172.93	0.143	164.5	0.128
173.053	0.146	164.75	0.129
173.25	0.145	165	0.128
173.5	0.144	165.25	0.124
173.75	0.14	165.5	0.124
174	0.146	165.934	0.126
174.25	0.139	166.057	0.128
174.5	0.15	166.25	0.128

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
162.446	0.111	153.251	0.125
162.569	0.113	153.501	0.12
162.75	0.116	153.751	0.131
163	0.115	154.001	0.123
163.25	0.115	154.251	0.12
163.5	0.115	154.702	0.126
163.753	0.121	154.824	0.12
164	0.115	155.001	0.129
164.25	0.11	155.251	0.126
164.5	0.116	155.501	0.119
164.75	0.114	155.751	0.129
165	0.111	156.001	0.122
165.25	0.115	156.251	0.126
165.5	0.116	156.501	0.124
165.75	0.111	156.751	0.119
166	0.11	157.001	0.119
166.25	0.111	157.251	0.12
166.5	0.116	157.501	0.124
166.75	0.113	157.751	0.121
167	0.117	158.001	0.121
167.446	0.109	158.251	0.123
167.569	0.111	158.501	0.121
167.75	0.108	158.751	0.127
168	0.109	159.001	0.117
168.25	0.112	159.251	0.12
168.5	0.11	159.701	0.125
168.75	0.107	159.823	0.121
169	0.11	160.001	0.118
169.25	0.108	160.251	0.122
169.5	0.111	160.501	0.118
169.75	0.112	160.751	0.122
170	0.109	161.001	0.122
170.25	0.112	161.251	0.123
170.5	0.11	161.501	0.123
170.75	0.113	161.751	0.12
171	0.108	162.001	0.118
171.25	0.106	162.251	0.126
171.5	0.11	162.501	0.121
171.75	0.107	162.751	0.122
172	0.107	163.001	0.118
172.446	0.108	163.251	0.123
172.568	0.114	163.501	0.121
172.75	0.112	163.751	0.12
173	0.108	164.011	0.119
173.25	0.104	164.251	0.119
173.5	0.109	164.7	0.12
173.75	0.11	164.823	0.123
174	0.11	165.001	0.119
174.25	0.108	165.251	0.121
174.5	0.11	165.501	0.123
174.75	0.104	165.751	0.126
175	0.108	166.001	0.115
175.25	0.109	166.251	0.12
175.5	0.106	166.501	0.124
175.75	0.106	166.751	0.118
176	0.114	167.001	0.123
176.25	0.108	167.251	0.117
176.5	0.11	167.501	0.121
176.75	0.11	167.751	0.121
177	0.11	168.001	0.123
177.446	0.108	168.251	0.119
177.569	0.107	168.501	0.118
177.75	0.112	168.751	0.118
178	0.108	169.001	0.125
178.25	0.11	169.251	0.123
178.5	0.106	169.7	0.125
178.75	0.112	169.822	0.115
179	0.108	170.001	0.12
179.25	0.107	170.251	0.12
179.5	0.113	170.501	0.117
179.75	0.109	170.751	0.12

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
174.75	0.149	166.5	0.125
175	0.145	166.75	0.126
175.25	0.139	167	0.128
175.5	0.141	167.25	0.127
175.75	0.145	167.5	0.125
176	0.142	167.75	0.127
176.25	0.149	168	0.124
176.5	0.147	168.25	0.126
176.75	0.147	168.5	0.126
177	0.141	168.75	0.129
177.25	0.142	169	0.126
177.807	0.144	169.25	0.126
177.93	0.139	169.5	0.126
178.053	0.144	169.75	0.127
178.25	0.143	170	0.125
178.5	0.14	170.25	0.125
178.75	0.147	170.5	0.13
179	0.146	170.934	0.129
179.25	0.145	171.057	0.124
179.5	0.144	171.25	0.124
179.75	0.142	171.5	0.124
180	0.139	171.75	0.121
180.25	0.141	172	0.13
180.5	0.147	172.25	0.126
180.75	0.142	172.5	0.124
181	0.144	172.75	0.122
181.25	0.14	173	0.122
181.5	0.142	173.25	0.124
181.75	0.137	173.5	0.126
182	0.139	173.75	0.119
182.25	0.142	174	0.125
182.807	0.142	174.25	0.127
182.93	0.147	174.5	0.119
183.053	0.143	174.75	0.12
183.25	0.151	175	0.118
183.5	0.142	175.25	0.123
183.75	0.141	175.5	0.118
184	0.143	175.934	0.127
184.25	0.146	176.056	0.121
184.5	0.146	176.25	0.125
184.75	0.144	176.5	0.126
185	0.139	176.75	0.128
185.25	0.139	177	0.126
185.5	0.142	177.25	0.121
185.75	0.143	177.5	0.119
186	0.14	177.75	0.12
186.25	0.145	178	0.124
186.5	0.139	178.25	0.13
186.75	0.139	178.5	0.125
187	0.142	178.75	0.122
187.25	0.143	179	0.119
187.807	0.143	179.25	0.122
187.93	0.14	179.5	0.117
188.053	0.14	179.75	0.123
188.25	0.143	180	0.124
188.5	0.145	180.25	0.121
188.75	0.137	180.5	0.121
189	0.139	180.934	0.128
189.25	0.135	181.057	0.121
189.5	0.138	181.25	0.116
189.75	0.143	181.5	0.129
190	0.139	181.75	0.124
190.25	0.137	182	0.119
190.5	0.141	182.25	0.122
190.75	0.144	182.5	0.124
191	0.141	182.75	0.118
191.25	0.137	183	0.12
191.5	0.142	183.25	0.122
191.75	0.144	183.5	0.119
192	0.142	183.75	0.119
192.25	0.137	184	0.122

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
180	0.112	171.001	0.119
180.25	0.115	171.251	0.117
180.5	0.11	171.501	0.123
180.75	0.116	171.751	0.117
181	0.11	172.001	0.117
181.25	0.11	172.251	0.118
181.5	0.109	172.501	0.115
181.75	0.111	172.751	0.121
182	0.107	173.001	0.121
182.445	0.11	173.251	0.116
182.568	0.106	173.501	0.12
182.75	0.104	173.751	0.121
183	0.11	174.001	0.115
183.25	0.105	174.251	0.119
183.5	0.104	174.699	0.12
183.75	0.104	174.822	0.118
184	0.107	175.001	0.115
184.25	0.109	175.251	0.117
184.5	0.111	175.501	0.114
184.75	0.104	175.751	0.117
185	0.109	176.001	0.118
185.25	0.1	176.251	0.116
185.5	0.109	176.501	0.113
185.75	0.107	176.751	0.119
186	0.101	177.001	0.115
186.25	0.104	177.251	0.119
186.5	0.107	177.501	0.12
186.75	0.113	177.751	0.119
187	0.107	178.001	0.117
187.445	0.11	178.251	0.12
187.568	0.107	178.501	0.117
187.75	0.104	178.751	0.117
188	0.104	179.001	0.117
188.25	0.107	179.251	0.119
188.5	0.107	179.699	0.115
188.75	0.105	179.822	0.119
189	0.103	180.001	0.117
189.25	0.104	180.251	0.113
189.5	0.11	180.501	0.11
189.75	0.105	180.751	0.113
190	0.106	181.001	0.118
190.25	0.099	181.251	0.121
190.5	0.105	181.501	0.118
190.75	0.103	181.751	0.116
191	0.106	182.001	0.118
191.25	0.101	182.251	0.123
191.5	0.109	182.501	0.114
191.75	0.104	182.751	0.116
192	0.106	183.001	0.116
192.444	0.106	183.251	0.114
192.568	0.101	183.501	0.114
192.75	0.108	183.751	0.113
193	0.107	184.001	0.119
193.25	0.106	184.251	0.111
193.5	0.106	184.699	0.111
193.75	0.107	184.822	0.109
194.001	0.102	185.001	0.115
194.25	0.111	185.251	0.111
194.5	0.109	185.501	0.112
194.75	0.103	185.751	0.11
195	0.106	186.001	0.111
195.25	0.103	186.251	0.118
195.5	0.109	186.501	0.11
195.75	0.108	186.751	0.115
196	0.107	187.001	0.114
196.25	0.105	187.251	0.115
196.5	0.105	187.501	0.117
196.75	0.103	187.751	0.114
197	0.11	188.001	0.112
197.444	0.105	188.251	0.111
197.567	0.109	188.501	0.109

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
192.806	0.146	184.25	0.119
192.93	0.143	184.5	0.113
193.052	0.148	184.75	0.124
193.25	0.135	185	0.12
193.5	0.139	185.25	0.114
193.75	0.144	185.5	0.118
194	0.14	185.934	0.119
194.25	0.141	186.057	0.119
194.5	0.14	186.25	0.12
194.75	0.138	186.5	0.119
195	0.139	186.75	0.122
195.25	0.136	187	0.12
195.5	0.135	187.25	0.122
195.75	0.14	187.5	0.121
196	0.141	187.75	0.123
196.25	0.139	188	0.118
196.5	0.141	188.25	0.116
196.75	0.133	188.5	0.119
197	0.138	188.75	0.12
197.25	0.137	189	0.124
197.806	0.141	189.25	0.117
197.93	0.135	189.5	0.118
198.052	0.138	189.75	0.118
198.25	0.138	190	0.12
198.5	0.14	190.25	0.119
198.75	0.138	190.5	0.114
199	0.132	190.934	0.12
199.25	0.139	191.056	0.116
199.5	0.137	191.25	0.118
199.75	0.143	191.5	0.125
200	0.141	191.75	0.119
200.25	0.137	192.003	0.119
200.5	0.142	192.25	0.114
200.75	0.142	192.5	0.118
201	0.137	192.75	0.122
201.25	0.14	193	0.124
201.5	0.141	193.25	0.118
201.75	0.138	193.5	0.12
202	0.136	193.75	0.12
202.25	0.139	194	0.116
202.806	0.139	194.25	0.118
202.928	0.141	194.5	0.12
203.051	0.143	194.75	0.117
203.25	0.139	195	0.118
203.5	0.137	195.25	0.121
203.75	0.14	195.5	0.115
204	0.14	195.934	0.121
204.25	0.143	196.057	0.119
204.5	0.136	196.25	0.122
204.75	0.139	196.5	0.119
205	0.143	196.75	0.117
205.25	0.132	197	0.116
205.5	0.137	197.25	0.115
205.75	0.133	197.5	0.117
206	0.136	197.75	0.114
206.25	0.135	198	0.119
206.5	0.137	198.25	0.123
206.75	0.138	198.5	0.12
207	0.137	198.75	0.118
207.25	0.139	199	0.118
207.805	0.137	199.25	0.115
207.929	0.137	199.5	0.117
208.052	0.137	199.75	0.117
208.25	0.134	200	0.119
208.5	0.131	200.25	0.116
208.75	0.141	200.5	0.118
209	0.134	200.934	0.118
209.25	0.135	201.057	0.115
209.5	0.135	201.25	0.12
209.75	0.137	201.5	0.112
210	0.131	201.75	0.11

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
197.75	0.103	188.751	0.113
198	0.105	189.001	0.114
198.25	0.105	189.251	0.115
198.5	0.109	189.699	0.115
198.75	0.108	189.821	0.109
199	0.109	190.001	0.113
199.25	0.103	190.251	0.112
199.5	0.108	190.501	0.112
199.75	0.106	190.751	0.108
200	0.108	191.001	0.112
200.25	0.111	191.251	0.118
200.5	0.109	191.501	0.111
200.75	0.108	191.751	0.114
201	0.108	192.001	0.118
201.25	0.105	192.251	0.113
201.5	0.104	192.501	0.11
201.75	0.11	192.751	0.108
202	0.11	193.001	0.111
202.445	0.108	193.251	0.112
202.568	0.103	193.501	0.112
202.75	0.11	193.751	0.11
203	0.114	194.001	0.108
203.25	0.107	194.258	0.109
203.5	0.104	194.704	0.112
203.75	0.105	194.826	0.11
204	0.103	195.001	0.113
204.25	0.11	195.251	0.112
204.5	0.106	195.501	0.113
204.75	0.105	195.751	0.11
205	0.106	196.001	0.112
205.25	0.105	196.251	0.109
205.5	0.109	196.501	0.106
205.75	0.109	196.751	0.107
206	0.103	197.001	0.112
206.25	0.112	197.251	0.115
206.5	0.104	197.501	0.116
206.75	0.104	197.751	0.111
207	0.109	198.001	0.112
207.444	0.102	198.251	0.11
207.567	0.103	198.501	0.114
207.75	0.104	198.751	0.108
208	0.104	199.001	0.112
208.25	0.108	199.251	0.113
208.5	0.106	199.698	0.113
208.75	0.105	199.821	0.109
209	0.103	200.001	0.109
209.25	0.108	200.251	0.109
209.5	0.104	200.501	0.108
209.75	0.105	200.751	0.116
210	0.106	201.001	0.109
210.25	0.104	201.251	0.116
210.5	0.106	201.501	0.111
210.75	0.104	201.751	0.108
211	0.102	202.001	0.115
211.25	0.1	202.251	0.113
211.5	0.105	202.501	0.113
211.75	0.098	202.751	0.114
212	0.103	203.001	0.111
212.445	0.1	203.251	0.114
212.568	0.099	203.501	0.112
212.75	0.102	203.751	0.113
213	0.106	204.001	0.114
213.25	0.104	204.251	0.109
213.5	0.102	204.776	0.111
213.75	0.103	204.9	0.109
214	0.1	205.023	0.114
214.25	0.103	205.251	0.11
214.5	0.099	205.501	0.11
214.75	0.103	205.751	0.112
215	0.1	206.001	0.11
215.25	0.094	206.251	0.107

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
210.25	0.13	202	0.117
210.5	0.129	202.25	0.116
210.75	0.136	202.5	0.117
211	0.137	202.75	0.12
211.25	0.138	203	0.116
211.5	0.134	203.25	0.118
211.75	0.133	203.5	0.116
212	0.134	203.75	0.119
212.25	0.14	204	0.114
212.805	0.137	204.25	0.123
212.928	0.136	204.5	0.114
213.05	0.139	204.75	0.115
213.25	0.136	205	0.125
213.5	0.139	205.25	0.114
213.75	0.136	205.5	0.116
214	0.134	205.934	0.121
214.25	0.129	206.057	0.119
214.5	0.137	206.25	0.12
214.75	0.137	206.5	0.119
215	0.132	206.75	0.117
215.25	0.138	207	0.117
215.5	0.134	207.25	0.121
215.75	0.132	207.5	0.115
216	0.138	207.75	0.118
216.25	0.136	208	0.119
216.5	0.136	208.25	0.115
216.75	0.134	208.5	0.115
217	0.137	208.75	0.119
217.25	0.136	209	0.118
217.804	0.135	209.25	0.112
217.927	0.138	209.5	0.112
218.049	0.132	209.75	0.114
218.25	0.136	210	0.115
218.5	0.139	210.25	0.119
218.75	0.143	210.5	0.117
219	0.134	210.935	0.118
219.25	0.136	211.057	0.118
219.5	0.136	211.25	0.116
219.75	0.139	211.5	0.116
220	0.137	211.75	0.117
220.25	0.138	212	0.115
220.5	0.134	212.25	0.118
220.75	0.137	212.5	0.119
221	0.132	212.75	0.116
221.25	0.134	213	0.115
221.5	0.136	213.25	0.114
221.75	0.137	213.5	0.12
222	0.135	213.75	0.114
222.25	0.136	214	0.11
222.804	0.141	214.25	0.115
222.927	0.133	214.5	0.118
223.05	0.138	214.75	0.11
223.25	0.134	215	0.112
223.5	0.138	215.25	0.118
223.75	0.135	215.5	0.115
224	0.133	215.934	0.106
224.25	0.132	216.057	0.121
224.5	0.135	216.25	0.115
224.75	0.136	216.5	0.114
225	0.134	216.75	0.11
225.25	0.139	217	0.12
225.5	0.133	217.25	0.111
225.75	0.142	217.5	0.121
226	0.135	217.75	0.114
226.25	0.141	218	0.118
226.5	0.135	218.25	0.112
226.75	0.137	218.5	0.114
227	0.141	218.75	0.117
227.25	0.137	219	0.116
227.804	0.139	219.25	0.11
227.927	0.139	219.5	0.111

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
215.5	0.101	206.501	0.111
215.75	0.102	206.751	0.111
216	0.107	207.001	0.111
216.25	0.1	207.251	0.112
216.5	0.098	207.501	0.108
216.75	0.103	207.751	0.11
217	0.095	208.001	0.112
217.444	0.106	208.251	0.109
217.567	0.104	208.501	0.115
217.75	0.104	208.751	0.108
218	0.108	209.001	0.11
218.25	0.098	209.251	0.109
218.5	0.1	209.698	0.11
218.75	0.107	209.821	0.109
219	0.102	210.001	0.113
219.25	0.105	210.251	0.112
219.5	0.101	210.501	0.11
219.75	0.103	210.751	0.109
220	0.102	211.001	0.11
220.25	0.102	211.251	0.109
220.5	0.1	211.501	0.11
220.75	0.1	211.751	0.106
221	0.103	212.001	0.111
221.25	0.104	212.251	0.113
221.5	0.103	212.501	0.109
221.75	0.103	212.751	0.107
222	0.103	213.001	0.109
222.445	0.1	213.251	0.116
222.568	0.099	213.501	0.111
222.75	0.102	213.751	0.11
223	0.103	214.001	0.105
223.25	0.102	214.251	0.106
223.5	0.1	214.698	0.103
223.75	0.1	214.83	0.112
224	0.105	215.001	0.11
224.25	0.102	215.251	0.111
224.5	0.101	215.501	0.106
224.75	0.101	215.751	0.111
225	0.1	216.001	0.115
225.25	0.103	216.251	0.111
225.5	0.098	216.501	0.108
225.75	0.105	216.751	0.108
226	0.108	217.001	0.113
226.25	0.1	217.251	0.108
226.5	0.104	217.501	0.111
226.75	0.104	217.751	0.108
227	0.102	218.001	0.11
227.444	0.099	218.251	0.112
227.567	0.103	218.501	0.111
227.75	0.103	218.751	0.11
228	0.102	219.001	0.107
228.25	0.103	219.251	0.105
228.5	0.102	219.698	0.105
228.75	0.104	219.82	0.11
229	0.097	220.001	0.11
229.25	0.096	220.251	0.108
229.5	0.104	220.501	0.109
229.75	0.104	220.751	0.109
230	0.1	221.001	0.109
230.25	0.1	221.251	0.104
230.5	0.097	221.501	0.108
230.75	0.102	221.751	0.11
231	0.097	222.001	0.114
231.25	0.101	222.251	0.106
231.5	0.105	222.501	0.108
231.75	0.102	222.751	0.109
232	0.097	223.001	0.107
232.445	0.096	223.251	0.109
232.568	0.1	223.501	0.107
232.75	0.1	223.751	0.11
233	0.106	224.001	0.107

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
228.049	0.137	219.75	0.114
228.25	0.134	220	0.113
228.5	0.138	220.25	0.114
228.75	0.133	220.5	0.122
229	0.135	220.934	0.112
229.25	0.138	221.057	0.119
229.5	0.136	221.25	0.114
229.75	0.139	221.5	0.113
230	0.14	221.75	0.112
230.25	0.137	222	0.117
230.5	0.136	222.251	0.115
230.75	0.136	222.5	0.115
231	0.135	222.75	0.112
231.25	0.132	223	0.116
231.5	0.133	223.25	0.116
231.75	0.133	223.5	0.119
232	0.137	223.75	0.118
232.25	0.134	224	0.114
232.803	0.137	224.25	0.116
232.926	0.136	224.5	0.112
233.048	0.14	224.75	0.121
233.25	0.138	225	0.114
233.5	0.138	225.25	0.113
233.75	0.137	225.5	0.118
234.002	0.135	225.934	0.123
234.25	0.133	226.058	0.113
234.5	0.138	226.25	0.118
234.75	0.136	226.5	0.108
235	0.137	226.75	0.117
235.25	0.136	227	0.116
235.5	0.137	227.25	0.113
235.75	0.133	227.5	0.117
236	0.136	227.75	0.113
236.25	0.13	228	0.117
236.5	0.135	228.25	0.114
236.75	0.134	228.5	0.115
237	0.141	228.75	0.112
237.25	0.134	229	0.117
237.803	0.133	229.25	0.111
237.925	0.137	229.5	0.114
238.047	0.135	229.75	0.117
238.25	0.135	230	0.108
238.5	0.132	230.25	0.111
238.75	0.132	230.5	0.113
239	0.141	230.934	0.112
239.25	0.135	231.057	0.113
239.5	0.134	231.25	0.116
239.75	0.134	231.5	0.123
240	0.131	231.75	0.11
240.25	0.135	232	0.11
240.5	0.131	232.25	0.121
240.75	0.136	232.5	0.115
241	0.139	232.75	0.118
241.25	0.137	233	0.121
241.5	0.135	233.25	0.119
241.75	0.135	233.5	0.112
242	0.134	233.75	0.112
242.25	0.134	234	0.112
242.802	0.135	234.25	0.114
242.925	0.134	234.5	0.116
243.047	0.137	234.75	0.107
243.25	0.132	235	0.117
243.5	0.135	235.25	0.113
243.75	0.137	235.5	0.119
244	0.138	235.934	0.116
244.25	0.128	236.056	0.114
244.5	0.13	236.25	0.116
244.75	0.129	236.5	0.116
245	0.132	236.75	0.118
245.25	0.133	237	0.112
245.5	0.133	237.25	0.117

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
233.25	0.099	224.251	0.112
233.5	0.102	224.697	0.106
233.75	0.107	224.82	0.106
234	0.105	225.001	0.105
234.25	0.105	225.251	0.106
234.5	0.103	225.501	0.102
234.75	0.102	225.751	0.108
235	0.1	226.001	0.107
235.25	0.096	226.251	0.108
235.5	0.1	226.501	0.109
235.75	0.096	226.751	0.108
236	0.101	227.001	0.11
236.25	0.098	227.251	0.106
236.5	0.098	227.501	0.11
236.75	0.101	227.751	0.109
237	0.1	228.001	0.111
237.445	0.099	228.251	0.108
237.568	0.096	228.501	0.11
237.75	0.1	228.751	0.107
238	0.102	229.001	0.105
238.25	0.101	229.251	0.109
238.5	0.1	229.697	0.103
238.75	0.104	229.819	0.109
239	0.1	230.001	0.106
239.25	0.104	230.251	0.109
239.5	0.099	230.501	0.106
239.75	0.097	230.751	0.106
240	0.099	231.001	0.106
240.25	0.103	231.251	0.109
240.5	0.103	231.501	0.107
240.75	0.098	231.751	0.109
241	0.097	232.001	0.106
241.25	0.102	232.251	0.103
241.5	0.104	232.501	0.105
241.75	0.101	232.751	0.109
242	0.097	233.001	0.102
242.444	0.096	233.251	0.107
242.567	0.099	233.501	0.105
242.75	0.103	233.751	0.106
243	0.094	234.001	0.104
243.25	0.1	234.251	0.107
243.5	0.101	234.697	0.101
243.75	0.108	234.819	0.11
244	0.101	235.022	0.112
244.25	0.1	235.251	0.108
244.5	0.1	235.501	0.109
244.75	0.101	235.751	0.108
245	0.102	236.001	0.107
245.25	0.104	236.251	0.106
245.5	0.099	236.501	0.108
245.75	0.098	236.751	0.11
246	0.099	237.001	0.106
246.25	0.106	237.251	0.101
246.5	0.1	237.501	0.106
246.75	0.092	237.751	0.109
247	0.1	238.001	0.105
247.445	0.102	238.251	0.107
247.568	0.101	238.501	0.109
247.75	0.098	238.751	0.113
248	0.096	239.001	0.105
248.25	0.106	239.251	0.109
248.5	0.106	239.696	0.107
248.75	0.101	239.819	0.107
249	0.098	240.001	0.107
249.25	0.096	240.251	0.105
249.5	0.1	240.501	0.106
249.75	0.095	240.751	0.104
250	0.107	241.001	0.11
250.25	0.101	241.251	0.102
250.5	0.1	241.501	0.105
250.75	0.096	241.751	0.108

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
245.75	0.136	237.5	0.113
246	0.135	237.75	0.113
246.25	0.134	238	0.111
246.5	0.135	238.25	0.113
246.75	0.131	238.5	0.114
247	0.131	238.75	0.111
247.25	0.134	239	0.109
247.802	0.131	239.25	0.117
247.924	0.135	239.5	0.111
248.046	0.134	239.75	0.114
248.25	0.135	240	0.111
248.5	0.133	240.25	0.11
248.75	0.14	240.5	0.116
249	0.131	240.934	0.109
249.25	0.132	241.056	0.114
249.5	0.138	241.25	0.112
249.75	0.135	241.5	0.11
250	0.141	241.75	0.115
250.25	0.133	242	0.111
250.5	0.133	242.25	0.111
250.75	0.133	242.5	0.113
251	0.135	242.75	0.108
251.25	0.133	243	0.112
251.5	0.131	243.25	0.114
251.75	0.138	243.5	0.112
252	0.135	243.75	0.105
252.25	0.135	244	0.116
252.801	0.129	244.25	0.115
252.923	0.129	244.5	0.109
253.046	0.136	244.75	0.109
253.25	0.128	245	0.115
253.5	0.136	245.25	0.114
253.75	0.136	245.5	0.11
254	0.13	245.934	0.109
254.25	0.13	246.057	0.115
254.5	0.135	246.25	0.11
254.75	0.13	246.5	0.111
255	0.131	246.75	0.112
255.25	0.133	247	0.106
255.5	0.135	247.25	0.111
255.75	0.134	247.5	0.112
256	0.131	247.75	0.104
256.25	0.126	248	0.117
256.5	0.132	248.25	0.11
256.75	0.141	248.5	0.11
257	0.132	248.75	0.113
257.25	0.129	249	0.109
257.801	0.136	249.25	0.106
257.923	0.138	249.5	0.11
258.046	0.128	249.75	0.109
258.25	0.139	250	0.114
258.5	0.128	250.25	0.108
258.75	0.132	250.5	0.115
259	0.14	250.934	0.112
259.25	0.131	251.057	0.113
259.5	0.136	251.25	0.113
259.75	0.136	251.5	0.105
260	0.133	251.75	0.111
260.25	0.138	252	0.11
260.5	0.136	252.25	0.113
260.75	0.131	252.515	0.114
261	0.133	252.75	0.11
261.25	0.136	253	0.114
261.5	0.135	253.25	0.112
261.75	0.133	253.5	0.116
262	0.134	253.75	0.108
262.25	0.138	254	0.108
262.801	0.134	254.25	0.113
262.923	0.134	254.5	0.112
263.045	0.133	254.75	0.11
263.25	0.133	255	0.11

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
251	0.099	242.001	0.102
251.25	0.096	242.251	0.107
251.5	0.098	242.501	0.105
251.75	0.101	242.751	0.106
252	0.098	243.001	0.104
252.445	0.101	243.251	0.109
252.568	0.097	243.501	0.113
252.75	0.098	243.751	0.105
253	0.097	244.001	0.108
253.25	0.099	244.251	0.105
253.5	0.097	244.696	0.103
253.75	0.099	244.819	0.107
254	0.096	245.001	0.105
254.25	0.099	245.251	0.109
254.511	0.101	245.501	0.105
254.75	0.094	245.751	0.103
255	0.098	246.001	0.106
255.25	0.1	246.251	0.104
255.5	0.099	246.501	0.111
255.75	0.093	246.751	0.105
256	0.096	247.001	0.108
256.25	0.101	247.251	0.107
256.5	0.104	247.501	0.103
256.75	0.104	247.751	0.109
257	0.1	248.001	0.105
257.445	0.096	248.251	0.108
257.568	0.1	248.501	0.107
257.75	0.106	248.751	0.108
258	0.101	249.001	0.109
258.25	0.096	249.251	0.105
258.5	0.098	249.696	0.101
258.75	0.1	249.819	0.109
259	0.098	250.001	0.105
259.25	0.1	250.251	0.101
259.5	0.097	250.501	0.11
259.75	0.099	250.751	0.109
260	0.097	251.001	0.102
260.25	0.095	251.251	0.108
260.5	0.099	251.501	0.111
260.75	0.102	251.751	0.109
261	0.103	252.001	0.104
261.25	0.102	252.251	0.11
261.5	0.094	252.501	0.11
261.75	0.102	252.751	0.105
262	0.101	253.001	0.111
262.445	0.098	253.251	0.11
262.569	0.099	253.501	0.111
262.75	0.1	253.751	0.109
263	0.094	254.001	0.104
263.25	0.099	254.251	0.108
263.5	0.1	254.696	0.112
263.75	0.098	254.819	0.11
264	0.105	255.001	0.112
264.25	0.103	255.251	0.107
264.5	0.091	255.501	0.109
264.75	0.098	255.751	0.107
265	0.101	256.001	0.1
265.25	0.095	256.251	0.108
265.5	0.098	256.501	0.104
265.75	0.099	256.751	0.105
266	0.099	257.001	0.105
266.25	0.096	257.251	0.109
266.5	0.099	257.501	0.108
266.75	0.095	257.751	0.1
267	0.107	258.001	0.108
267.444	0.087	258.251	0.103
267.567	0.093	258.501	0.106
267.75	0.097	258.751	0.112
268	0.099	259.001	0.106
268.25	0.099	259.251	0.108
268.5	0.098	259.696	0.105

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
263.5	0.135	255.25	0.116
263.75	0.136	255.5	0.112
264	0.135	255.934	0.115
264.25	0.134	256.057	0.114
264.5	0.134	256.25	0.108
264.75	0.132	256.5	0.106
265	0.139	256.75	0.104
265.25	0.137	257	0.112
265.5	0.134	257.25	0.11
265.75	0.135	257.5	0.111
266	0.135	257.75	0.107
266.25	0.131	258	0.109
266.5	0.133	258.25	0.106
266.75	0.131	258.5	0.11
267	0.135	258.75	0.111
267.25	0.136	259	0.111
267.8	0.139	259.25	0.107
267.922	0.14	259.5	0.108
268.045	0.134	259.75	0.106
268.25	0.14	260	0.108
268.5	0.136	260.25	0.111
268.75	0.131	260.5	0.107
269	0.137	260.934	0.116
269.25	0.134	261.057	0.105
269.5	0.136	261.25	0.113
269.75	0.136	261.5	0.11
270	0.131	261.75	0.108
270.25	0.134	262	0.107
270.5	0.135	262.25	0.109
270.75	0.138	262.5	0.113
271	0.131	262.75	0.104
271.25	0.135	263	0.111
271.5	0.132	263.25	0.108
271.75	0.142	263.5	0.107
272	0.135	263.75	0.109
272.25	0.13	264	0.112
272.8	0.135	264.25	0.114
272.922	0.14	264.5	0.109
273.045	0.133	264.75	0.108
273.25	0.135	265	0.108
273.5	0.131	265.25	0.105
273.75	0.134	265.5	0.105
274	0.138	265.935	0.11
274.25	0.129	266.057	0.106
274.5	0.132	266.25	0.113
274.75	0.137	266.5	0.109
275	0.132	266.75	0.108
275.25	0.133	267	0.109
275.5	0.131	267.25	0.109
275.75	0.131	267.5	0.107
276	0.131	267.75	0.109
276.25	0.136	268	0.113
276.5	0.134	268.25	0.111
276.75	0.137	268.5	0.104
277	0.136	268.75	0.111
277.25	0.132	269	0.108
277.8	0.135	269.25	0.111
277.923	0.131	269.5	0.112
278.045	0.135	269.75	0.102
278.25	0.136	270	0.108
278.5	0.132	270.25	0.108
278.75	0.133	270.5	0.116
279	0.13	270.934	0.112
279.25	0.134	271.057	0.11
279.5	0.133	271.25	0.113
279.75	0.131	271.5	0.108
280	0.133	271.75	0.108
280.25	0.135	272	0.109
280.5	0.133	272.25	0.106
280.75	0.129	272.5	0.11
281	0.132	272.75	0.108

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
268.75	0.097	259.819	0.104
269	0.099	260.001	0.109
269.25	0.101	260.251	0.111
269.5	0.103	260.501	0.105
269.75	0.099	260.751	0.111
270	0.098	261.001	0.106
270.25	0.103	261.251	0.106
270.5	0.094	261.501	0.107
270.75	0.1	261.751	0.108
271	0.093	262.001	0.105
271.25	0.103	262.251	0.106
271.5	0.103	262.501	0.105
271.75	0.103	262.751	0.109
272	0.096	263.001	0.106
272.444	0.099	263.251	0.102
272.567	0.103	263.501	0.102
272.75	0.106	263.751	0.106
273	0.098	264.001	0.106
273.25	0.099	264.251	0.103
273.5	0.101	264.696	0.103
273.75	0.092	264.819	0.106
274	0.106	265.001	0.105
274.25	0.099	265.27	0.105
274.5	0.099	265.501	0.098
274.75	0.104	265.751	0.107
275	0.097	266.001	0.105
275.25	0.098	266.251	0.106
275.5	0.098	266.501	0.102
275.75	0.101	266.751	0.103
276	0.101	267.001	0.106
276.25	0.1	267.251	0.108
276.5	0.096	267.501	0.104
276.75	0.105	267.751	0.103
277	0.094	268.001	0.104
277.444	0.097	268.251	0.101
277.567	0.096	268.501	0.105
277.75	0.097	268.751	0.106
278	0.1	269.001	0.105
278.25	0.101	269.251	0.11
278.5	0.095	269.696	0.103
278.75	0.099	269.819	0.104
279	0.099	270.001	0.106
279.25	0.098	270.251	0.11
279.5	0.094	270.501	0.11
279.75	0.102	270.751	0.103
280	0.095	271.001	0.107
280.25	0.099	271.251	0.103
280.5	0.106	271.501	0.106
280.75	0.102	271.751	0.105
281	0.093	272.001	0.106
281.25	0.101	272.251	0.102
281.5	0.095	272.501	0.107
281.75	0.1	272.751	0.097
282	0.098	273.001	0.106
282.444	0.096	273.251	0.107
282.567	0.098	273.501	0.101
282.75	0.098	273.751	0.102
283	0.096	274.001	0.104
283.25	0.095	274.251	0.108
283.5	0.096	274.696	0.1
283.75	0.103	274.82	0.106
284	0.098	275.001	0.108
284.25	0.1	275.251	0.103
284.5	0.104	275.501	0.108
284.759	0.096	275.751	0.109
285	0.103	276.001	0.105
285.25	0.097	276.251	0.1
285.5	0.099	276.501	0.098
285.75	0.099	276.751	0.102
286	0.107	277.001	0.105
286.25	0.096	277.251	0.102

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
281.25	0.13	273	0.108
281.5	0.132	273.25	0.112
281.75	0.135	273.5	0.105
282	0.132	273.75	0.108
282.25	0.131	274	0.107
282.799	0.131	274.25	0.117
282.921	0.13	274.5	0.109
283.044	0.136	274.75	0.113
283.25	0.128	275	0.114
283.5	0.131	275.25	0.111
283.75	0.13	275.5	0.111
284	0.129	275.934	0.111
284.25	0.127	276.057	0.109
284.5	0.128	276.25	0.115
284.75	0.124	276.5	0.113
285	0.13	276.75	0.109
285.25	0.132	277	0.112
285.5	0.128	277.25	0.106
285.75	0.135	277.5	0.107
286	0.134	277.75	0.103
286.25	0.137	278	0.108
286.5	0.132	278.25	0.117
286.75	0.133	278.5	0.107
287	0.129	278.75	0.108
287.25	0.136	279	0.107
287.799	0.134	279.25	0.11
287.921	0.138	279.5	0.115
288.043	0.13	279.75	0.109
288.25	0.132	280	0.113
288.5	0.136	280.25	0.115
288.75	0.126	280.5	0.109
289	0.135	280.934	0.118
289.25	0.133	281.058	0.111
289.5	0.132	281.25	0.108
289.75	0.139	281.5	0.109
290	0.135	281.75	0.11
290.25	0.135	282	0.107
290.5	0.133	282.25	0.111
290.75	0.132	282.5	0.106
291	0.132	282.763	0.111
291.25	0.131	283	0.112
291.5	0.129	283.25	0.105
291.75	0.13	283.5	0.11
292	0.132	283.75	0.111
292.25	0.133	284	0.107
292.798	0.133	284.25	0.108
292.921	0.131	284.5	0.115
293.044	0.131	284.75	0.113
293.25	0.129	285	0.108
293.5	0.131	285.25	0.107
293.75	0.132	285.5	0.111
294	0.132	285.934	0.107
294.25	0.131	286.057	0.109
294.5	0.129	286.25	0.112
294.75	0.13	286.5	0.112
295	0.129	286.75	0.11
295.25	0.134	287	0.113
295.5	0.13	287.25	0.108
295.75	0.13	287.5	0.111
296	0.128	287.75	0.114
296.25	0.132	288	0.115
296.5	0.132	288.25	0.111
296.75	0.129	288.5	0.111
297	0.14	288.75	0.111
297.25	0.13	289	0.109
297.798	0.13	289.25	0.111
297.92	0.134	289.5	0.107
298.042	0.136	289.75	0.113
298.25	0.134	290	0.11
298.5	0.136	290.25	0.109
298.75	0.13	290.5	0.108

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
286.5	0.106	277.501	0.102
286.75	0.095	277.751	0.105
287	0.104	278.001	0.106
287.443	0.104	278.251	0.108
287.566	0.1	278.501	0.1
287.75	0.099	278.751	0.109
288	0.102	279.001	0.103
288.25	0.092	279.251	0.105
288.5	0.1	279.696	0.106
288.75	0.096	279.819	0.105
289	0.099	280.001	0.106
289.25	0.099	280.251	0.101
289.5	0.098	280.501	0.108
289.75	0.098	280.751	0.103
290	0.1	281.001	0.102
290.25	0.092	281.251	0.107
290.5	0.101	281.501	0.103
290.75	0.1	281.751	0.106
291	0.1	282.001	0.107
291.25	0.094	282.251	0.104
291.5	0.103	282.501	0.106
291.75	0.1	282.751	0.108
292	0.101	283.001	0.107
292.443	0.098	283.251	0.106
292.565	0.101	283.501	0.106
292.75	0.1	283.751	0.103
293	0.098	284.001	0.104
293.25	0.098	284.251	0.106
293.5	0.103	284.696	0.104
293.75	0.099	284.819	0.105
294	0.095	285.001	0.109
294.25	0.098	285.251	0.102
294.5	0.103	285.501	0.106
294.75	0.099	285.751	0.103
295	0.096	286.001	0.107
295.25	0.093	286.251	0.111
295.5	0.097	286.501	0.106
295.75	0.097	286.751	0.106
296	0.096	287.001	0.106
296.25	0.1	287.251	0.103
296.5	0.098	287.501	0.106
296.75	0.099	287.751	0.108
297	0.096	288.001	0.104
297.442	0.098	288.251	0.108
297.565	0.09	288.501	0.105
297.75	0.096	288.751	0.101
298	0.091	289.001	0.102
298.25	0.097	289.251	0.108
298.5	0.098	289.695	0.098
298.75	0.103	289.819	0.101
299	0.099	290.001	0.099
299.25	0.098	290.251	0.103
299.5	0.092	290.501	0.104
299.75	0.096	290.751	0.102
300	0.096	291.001	0.105
300.25	0.097	291.251	0.109
300.5	0.094	291.501	0.103
300.75	0.101	291.751	0.102
301	0.093	292.001	0.105
301.25	0.102	292.251	0.107
301.5	0.098	292.501	0.104
301.75	0.09	292.751	0.103
302	0.098	293.001	0.102
302.443	0.097	293.251	0.104
302.566	0.097	293.501	0.102
302.75	0.096	293.751	0.101
303	0.095	294.001	0.102
303.25	0.1	294.251	0.099
303.5	0.096	294.695	0.1
303.75	0.092	294.819	0.105
304	0.098	295.001	0.103

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
299	0.132	290.934	0.114
299.25	0.133	291.057	0.11
299.5	0.132	291.25	0.112
299.75	0.136	291.5	0.109
300	0.139	291.75	0.108
300.25	0.135	292	0.109
300.5	0.137	292.25	0.109
300.75	0.133	292.5	0.109
301	0.13	292.75	0.109
301.25	0.137	293	0.108
301.5	0.137	293.25	0.106
301.75	0.128	293.5	0.109
302	0.134	293.75	0.112
302.25	0.134	294	0.105
302.797	0.133	294.25	0.112
302.919	0.132	294.5	0.107
303.042	0.136	294.75	0.102
303.25	0.136	295	0.107
303.5	0.135	295.25	0.108
303.75	0.131	295.5	0.11
304	0.135	295.934	0.109
304.25	0.135	296.058	0.111
304.5	0.131	296.25	0.108
304.75	0.134	296.5	0.109
305	0.136	296.75	0.107
305.25	0.131	297	0.113
305.5	0.134	297.25	0.108
305.75	0.138	297.5	0.112
306	0.13	297.75	0.111
306.25	0.135	298	0.108
306.5	0.133	298.25	0.112
306.75	0.132	298.5	0.111
307	0.133	298.75	0.106
307.25	0.133	299	0.106
307.797	0.133	299.25	0.106
307.919	0.138	299.5	0.115
308.042	0.131	299.75	0.114
308.25	0.137	300	0.108
308.5	0.13	300.25	0.107
308.75	0.131	300.5	0.105
309	0.133	300.945	0.106
309.25	0.134	301.067	0.112
309.5	0.127	301.25	0.104
309.75	0.138	301.5	0.105
310	0.135	301.75	0.113
310.25	0.129	302	0.106
310.5	0.134	302.25	0.109
310.75	0.132	302.5	0.108
311	0.126	302.75	0.107
311.25	0.13	303	0.105
311.5	0.124	303.25	0.107
311.75	0.137	303.5	0.109
312	0.129	303.75	0.11
312.25	0.132	304	0.106
312.796	0.133	304.25	0.099
312.919	0.133	304.5	0.107
313.041	0.134	304.75	0.114
313.25	0.132	305	0.105
313.5	0.135	305.25	0.112
313.75	0.136	305.5	0.109
314	0.126	305.944	0.111
314.25	0.132	306.067	0.112
314.5	0.128	306.25	0.111
314.75	0.134	306.5	0.109
315	0.133	306.75	0.107
315.25	0.139	307	0.111
315.5	0.13	307.25	0.11
315.75	0.132	307.5	0.111
316	0.135	307.75	0.11
316.25	0.13	308	0.105
316.5	0.134	308.25	0.109

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
304.25	0.098	295.251	0.102
304.5	0.099	295.518	0.106
304.75	0.1	295.751	0.106
305	0.092	296.001	0.105
305.25	0.1	296.251	0.102
305.5	0.095	296.501	0.098
305.75	0.098	296.751	0.102
306	0.1	297.001	0.111
306.25	0.095	297.251	0.106
306.5	0.1	297.501	0.11
306.75	0.096	297.751	0.113
307	0.1	298.001	0.107
307.442	0.097	298.251	0.111
307.565	0.093	298.501	0.106
307.75	0.102	298.751	0.113
308	0.099	299.001	0.104
308.25	0.1	299.251	0.107
308.5	0.099	299.696	0.107
308.75	0.097	299.819	0.108
309	0.103	300.001	0.106
309.25	0.096	300.251	0.102
309.5	0.102	300.501	0.105
309.75	0.098	300.751	0.102
310	0.092	301.001	0.108
310.25	0.098	301.251	0.106
310.5	0.095	301.501	0.107
310.75	0.1	301.751	0.107
311	0.099	302.001	0.11
311.25	0.098	302.251	0.109
311.5	0.098	302.501	0.106
311.75	0.1	302.751	0.105
312	0.101	303.001	0.102
312.441	0.095	303.251	0.103
312.565	0.097	303.501	0.1
312.75	0.096	303.751	0.102
313	0.097	304.001	0.104
313.25	0.1	304.251	0.105
313.5	0.097	304.696	0.106
313.75	0.098	304.819	0.105
314	0.099	305.001	0.105
314.25	0.099	305.251	0.101
314.5	0.099	305.501	0.106
314.75	0.096	305.751	0.105
315.007	0.098	306.001	0.104
315.25	0.097	306.251	0.102
315.5	0.099	306.501	0.1
315.75	0.097	306.751	0.102
316	0.096	307.001	0.102
316.25	0.101	307.251	0.106
316.5	0.103	307.501	0.105
316.75	0.103	307.751	0.109
317	0.104	308.001	0.102
317.441	0.094	308.251	0.103
317.566	0.101	308.501	0.108
317.75	0.099	308.751	0.106
318	0.097	309.001	0.109
318.25	0.099	309.251	0.101
318.5	0.093	309.696	0.103
318.75	0.102	309.819	0.105
319	0.098	310.001	0.101
319.25	0.098	310.251	0.106
319.5	0.099	310.501	0.104
319.75	0.101	310.751	0.102
320	0.102	311.001	0.106
320.25	0.095	311.251	0.103
320.5	0.096	311.501	0.108
320.75	0.098	311.751	0.107
321	0.099	312.001	0.107
321.25	0.099	312.251	0.096
321.5	0.097	312.501	0.101
321.75	0.103	312.751	0.103

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
316.75	0.134	308.5	0.111
317	0.13	308.75	0.103
317.25	0.133	309	0.111
317.796	0.131	309.25	0.112
317.918	0.129	309.5	0.11
318.041	0.131	309.75	0.108
318.25	0.13	310	0.109
318.5	0.132	310.25	0.111
318.75	0.13	310.5	0.112
319	0.13	310.944	0.109
319.25	0.127	311.067	0.109
319.5	0.138	311.25	0.108
319.75	0.136	311.5	0.109
320	0.131	311.75	0.112
320.25	0.135	312	0.109
320.5	0.133	312.25	0.111
320.75	0.132	312.5	0.103
321	0.132	312.75	0.103
321.25	0.133	313.011	0.112
321.5	0.137	313.25	0.109
321.75	0.133	313.5	0.11
322	0.13	313.75	0.108
322.25	0.135	314	0.115
322.795	0.135	314.25	0.111
322.918	0.138	314.5	0.117
323.04	0.129	314.75	0.108
323.25	0.13	315	0.111
323.5	0.13	315.25	0.109
323.75	0.134	315.5	0.109
324	0.131	315.944	0.111
324.25	0.134	316.067	0.108
324.5	0.134	316.25	0.111
324.75	0.137	316.5	0.108
325	0.135	316.75	0.11
325.25	0.136	317	0.11
325.5	0.128	317.25	0.107
325.75	0.132	317.5	0.107
326	0.134	317.75	0.106
326.25	0.132	318	0.107
326.5	0.132	318.25	0.113
326.75	0.136	318.5	0.11
327	0.132	318.75	0.108
327.25	0.136	319	0.104
327.795	0.134	319.25	0.112
327.918	0.131	319.5	0.113
328.04	0.133	319.75	0.109
328.25	0.134	320	0.111
328.5	0.133	320.25	0.112
328.75	0.134	320.5	0.112
329	0.132	320.944	0.108
329.25	0.129	321.067	0.111
329.5	0.132	321.25	0.109
329.75	0.133	321.5	0.107
330	0.134	321.75	0.112
330.25	0.14	322	0.108
330.5	0.133	322.25	0.112
330.75	0.132	322.5	0.109
331	0.131	322.75	0.106
331.25	0.139	323	0.105
331.5	0.133	323.25	0.112
331.75	0.14	323.5	0.105
332	0.135	323.75	0.112
332.25	0.131	324	0.108
332.795	0.128	324.25	0.107
332.918	0.138	324.5	0.11
333.041	0.135	324.75	0.109
333.25	0.133	325	0.104
333.5	0.134	325.25	0.11
333.75	0.134	325.5	0.105
334	0.138	325.944	0.106
334.25	0.14	326.067	0.105

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
322	0.094	313.001	0.108
322.44	0.095	313.251	0.107
322.563	0.096	313.501	0.102
322.75	0.096	313.751	0.102
323	0.096	314.001	0.109
323.25	0.096	314.251	0.103
323.5	0.096	314.696	0.105
323.75	0.099	314.819	0.103
324	0.096	315.001	0.104
324.25	0.1	315.251	0.106
324.5	0.102	315.501	0.098
324.75	0.1	315.751	0.1
325	0.096	316.001	0.099
325.25	0.094	316.251	0.109
325.5	0.099	316.501	0.101
325.75	0.101	316.751	0.105
326	0.1	317.001	0.108
326.25	0.101	317.251	0.106
326.5	0.097	317.501	0.104
326.75	0.1	317.751	0.1
327	0.098	318.001	0.107
327.44	0.103	318.251	0.109
327.563	0.099	318.501	0.111
327.75	0.097	318.751	0.107
328	0.092	319.001	0.105
328.25	0.096	319.251	0.106
328.5	0.095	319.696	0.103
328.75	0.099	319.819	0.111
329	0.096	320.001	0.102
329.25	0.099	320.251	0.107
329.5	0.09	320.501	0.104
329.75	0.097	320.751	0.11
330	0.1	321.001	0.107
330.25	0.097	321.251	0.103
330.5	0.1	321.501	0.099
330.75	0.102	321.751	0.103
331	0.097	322.001	0.104
331.25	0.099	322.251	0.107
331.5	0.096	322.501	0.107
331.75	0.101	322.751	0.1
332	0.098	323.001	0.105
332.44	0.1	323.251	0.099
332.562	0.096	323.501	0.104
332.75	0.095	323.751	0.107
333	0.099	324.001	0.1
333.25	0.09	324.251	0.105
333.5	0.094	324.696	0.103
333.75	0.097	324.819	0.103
334	0.098	325.001	0.105
334.25	0.095	325.251	0.106
334.5	0.099	325.501	0.102
334.75	0.1	325.766	0.103
335	0.098	326.001	0.103
335.25	0.096	326.251	0.103
335.5	0.099	326.501	0.106
335.75	0.098	326.751	0.102
336	0.098	327.001	0.107
336.25	0.1	327.251	0.101
336.5	0.095	327.501	0.106
336.75	0.099	327.751	0.105
337	0.102	328.001	0.103
337.439	0.098	328.251	0.105
337.561	0.096	328.501	0.102
337.75	0.098	328.751	0.101
338	0.098	329.001	0.098
338.25	0.1	329.251	0.105
338.5	0.098	329.696	0.103
338.75	0.098	329.82	0.102
339	0.094	330.001	0.104
339.25	0.098	330.251	0.097
339.5	0.102	330.501	0.1

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
334.5	0.134	326.25	0.105
334.75	0.142	326.5	0.104
335	0.131	326.75	0.106
335.25	0.13	327	0.101
335.5	0.134	327.25	0.111
335.75	0.141	327.5	0.107
336	0.135	327.75	0.109
336.25	0.129	328	0.106
336.5	0.137	328.25	0.11
336.75	0.141	328.5	0.109
337	0.135	328.75	0.113
337.25	0.137	329	0.109
337.795	0.134	329.25	0.111
337.917	0.135	329.5	0.107
338.04	0.139	329.75	0.106
338.25	0.133	330	0.113
338.5	0.13	330.25	0.107
338.75	0.136	330.5	0.104
339	0.135	330.943	0.113
339.25	0.136	331.066	0.111
339.5	0.131	331.25	0.111
339.75	0.134	331.5	0.109
340	0.129	331.75	0.112
340.25	0.134	332	0.103
340.5	0.138	332.25	0.108
340.75	0.135	332.5	0.108
341	0.138	332.75	0.109
341.25	0.134	333	0.108
341.5	0.136	333.25	0.107
341.75	0.134	333.5	0.109
342	0.133	333.75	0.11
342.25	0.135	334	0.109
342.794	0.135	334.25	0.111
342.917	0.132	334.5	0.104
343.04	0.14	334.75	0.109
343.25	0.133	335	0.109
343.5	0.128	335.25	0.11
343.75	0.131	335.5	0.108
344	0.135	335.944	0.113
344.25	0.132	336.067	0.109
344.5	0.139	336.25	0.119
344.75	0.132	336.5	0.108
345	0.126	336.75	0.11
345.25	0.134	337	0.103
345.5	0.135	337.25	0.11
345.75	0.135	337.5	0.11
346	0.133	337.75	0.105
346.25	0.135	338	0.11
346.5	0.126	338.25	0.107
346.75	0.134	338.5	0.109
347	0.133	338.75	0.102
347.25	0.132	339	0.104
347.794	0.133	339.25	0.105
347.917	0.134	339.5	0.107
348.041	0.132	339.75	0.104
348.25	0.132	340	0.109
348.5	0.131	340.25	0.115
348.75	0.13	340.5	0.109
349	0.131	340.934	0.11
349.25	0.133	341.057	0.108
349.5	0.138	341.25	0.108
349.75	0.135	341.5	0.113
350	0.134	341.75	0.107
350.25	0.131	342	0.107
350.5	0.131	342.25	0.104
350.75	0.135	342.5	0.109
351	0.133	342.75	0.107
351.25	0.134	343	0.111
351.5	0.14	343.258	0.106
351.75	0.132	343.5	0.112
352	0.129	343.75	0.108

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
339.75	0.096	330.751	0.104
340	0.097	331.001	0.104
340.25	0.096	331.251	0.099
340.5	0.096	331.501	0.1
340.75	0.099	331.751	0.103
341	0.098	332.001	0.107
341.25	0.095	332.251	0.099
341.5	0.096	332.501	0.106
341.75	0.097	332.751	0.103
342	0.096	333.001	0.102
342.439	0.096	333.251	0.1
342.561	0.094	333.501	0.102
342.75	0.095	333.751	0.102
343	0.096	334.001	0.101
343.25	0.095	334.251	0.102
343.5	0.093	334.696	0.099
343.75	0.093	334.819	0.106
344	0.096	335.001	0.105
344.25	0.099	335.251	0.106
344.5	0.098	335.501	0.106
344.75	0.098	335.751	0.099
345	0.099	336.001	0.099
345.255	0.097	336.251	0.101
345.5	0.098	336.501	0.104
345.75	0.098	336.751	0.101
346	0.097	337.001	0.104
346.25	0.095	337.251	0.099
346.5	0.104	337.501	0.102
346.75	0.099	337.751	0.107
347	0.098	338.001	0.103
347.439	0.096	338.251	0.103
347.561	0.096	338.501	0.105
347.75	0.096	338.751	0.109
348	0.099	339.001	0.103
348.25	0.098	339.251	0.105
348.5	0.095	339.696	0.098
348.75	0.094	339.819	0.109
349	0.099	340.001	0.106
349.25	0.099	340.251	0.098
349.5	0.094	340.501	0.103
349.75	0.096	340.751	0.102
350	0.099	341.001	0.101
350.25	0.097	341.251	0.1
350.5	0.096	341.501	0.102
350.75	0.099	341.751	0.105
351	0.096	342.001	0.101
351.25	0.093	342.251	0.103
351.5	0.099	342.501	0.106
351.75	0.098	342.751	0.1
352	0.097	343.001	0.109
352.438	0.094	343.251	0.104
352.56	0.092	343.501	0.102
352.75	0.099	343.751	0.102
353	0.103	344.001	0.102
353.25	0.097	344.251	0.106
353.5	0.094	344.696	0.103
353.75	0.095	344.819	0.108
354	0.095	345.001	0.098
354.25	0.093	345.251	0.109
354.5	0.099	345.501	0.108
354.75	0.095	345.751	0.1
355	0.1	346.001	0.108
355.25	0.098	346.251	0.103
355.5	0.096	346.501	0.103
355.75	0.096	346.751	0.11
356	0.097	347.001	0.099
356.25	0.094	347.251	0.109
356.5	0.093	347.501	0.108
356.75	0.098	347.751	0.103
357	0.098	348.001	0.102
357.438	0.097	348.251	0.101

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
352.25	0.125	344	0.106
352.793	0.139	344.25	0.111
352.916	0.134	344.5	0.106
353.039	0.138	344.75	0.106
353.25	0.133	345	0.109
353.5	0.128	345.25	0.11
353.75	0.14	345.5	0.11
354	0.134	345.934	0.112
354.25	0.131	346.057	0.111
354.5	0.133	346.25	0.107
354.75	0.132	346.5	0.111
355	0.132	346.75	0.11
355.25	0.134	347	0.11
355.5	0.134	347.25	0.107
355.75	0.134	347.5	0.11
356	0.139	347.75	0.112
356.25	0.13	348	0.11
356.5	0.135	348.25	0.105
356.75	0.134	348.5	0.107
357	0.133	348.75	0.112
357.25	0.134	349	0.11
357.793	0.136	349.25	0.112
357.916	0.14	349.5	0.104
358.039	0.134	349.75	0.106
358.25	0.128	350	0.112
358.5	0.128	350.25	0.106
358.75	0.134	350.5	0.105
359	0.131	350.934	0.109
359.25	0.134	351.058	0.107
359.5	0.129	351.25	0.113
359.75	0.135	351.5	0.105
360	0.13	351.75	0.108
360.25	0.133	352	0.105
360.5	0.129	352.25	0.105
360.75	0.133	352.5	0.109
361	0.133	352.75	0.103
361.25	0.131	353	0.105
361.5	0.132	353.25	0.105
361.75	0.131	353.5	0.106
362	0.131	353.75	0.109
362.25	0.132	354	0.113
362.793	0.134	354.25	0.108
362.916	0.135	354.5	0.107
363.039	0.136	354.75	0.111
363.25	0.132	355	0.104
363.5	0.132	355.25	0.106
363.75	0.132	355.5	0.109
364	0.13	355.934	0.104
364.25	0.134	356.056	0.109
364.5	0.131	356.25	0.112
364.75	0.131	356.5	0.112
365	0.129	356.75	0.107
365.25	0.133	357	0.104
365.5	0.134	357.25	0.111
365.75	0.133	357.5	0.106
366	0.133	357.75	0.108
366.25	0.131	358	0.106
366.5	0.136	358.25	0.113
366.75	0.132	358.5	0.105
367	0.132	358.75	0.108
367.25	0.131	359	0.101
367.793	0.133	359.25	0.113
367.916	0.131	359.5	0.109
368.039	0.134	359.75	0.108
368.25	0.128	360	0.113
368.5	0.134	360.25	0.11
368.75	0.131	360.5	0.104
369	0.137	360.934	0.11
369.25	0.128	361.057	0.112
369.5	0.13	361.25	0.115
369.75	0.13	361.5	0.11

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
357.56	0.095	348.501	0.1
357.75	0.099	348.751	0.101
358	0.094	349.001	0.106
358.25	0.103	349.251	0.102
358.5	0.091	349.695	0.098
358.75	0.098	349.818	0.098
359	0.101	350.001	0.106
359.25	0.094	350.251	0.103
359.5	0.093	350.501	0.098
359.75	0.097	350.751	0.104
360	0.098	351.001	0.099
360.25	0.094	351.251	0.102
360.5	0.101	351.501	0.102
360.75	0.099	351.751	0.107
361	0.097	352.001	0.105
361.25	0.098	352.251	0.104
361.5	0.098	352.501	0.099
361.75	0.096	352.751	0.102
362	0.096	353.001	0.102
362.438	0.094	353.251	0.102
362.56	0.091	353.501	0.106
362.75	0.102	353.751	0.11
363	0.1	354.001	0.108
363.25	0.094	354.251	0.099
363.5	0.094	354.694	0.104
363.75	0.098	354.817	0.103
364	0.098	355.001	0.098
364.25	0.094	355.251	0.104
364.5	0.096	355.501	0.104
364.75	0.096	355.751	0.106
365	0.098	356.014	0.104
365.25	0.098	356.251	0.104
365.5	0.091	356.501	0.103
365.75	0.099	356.751	0.097
366	0.098	357.001	0.107
366.25	0.098	357.251	0.105
366.5	0.099	357.501	0.104
366.75	0.1	357.751	0.103
367	0.098	358.001	0.1
367.438	0.097	358.251	0.1
367.56	0.098	358.501	0.104
367.75	0.099	358.751	0.1
368	0.099	359.001	0.095
368.25	0.098	359.251	0.104
368.5	0.101	359.694	0.106
368.75	0.096	359.817	0.094
369	0.095	360.001	0.103
369.25	0.101	360.251	0.108
369.5	0.1	360.501	0.098
369.75	0.097	360.751	0.1
370	0.101	361.001	0.101
370.25	0.1	361.251	0.099
370.5	0.1	361.501	0.104
370.75	0.099	361.751	0.102
371	0.097	362.001	0.098
371.25	0.098	362.251	0.101
371.5	0.101	362.501	0.097
371.75	0.094	362.751	0.1
372	0.1	363.001	0.107
372.438	0.097	363.251	0.106
372.56	0.099	363.501	0.106
372.75	0.102	363.751	0.104
373	0.096	364.001	0.102
373.25	0.103	364.251	0.106
373.5	0.101	364.694	0.099
373.75	0.102	364.817	0.101
374	0.098	365.001	0.103
374.25	0.098	365.251	0.104
374.5	0.093	365.501	0.101
374.75	0.1	365.751	0.102
375	0.102	366.001	0.103

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
370	0.133	361.75	0.109
370.25	0.134	362	0.107
370.5	0.129	362.25	0.105
370.75	0.132	362.5	0.106
371	0.127	362.75	0.11
371.25	0.135	363	0.118
371.5	0.129	363.25	0.108
371.75	0.128	363.611	0.107
372	0.125	363.75	0.117
372.25	0.131	364	0.108
372.793	0.137	364.25	0.113
372.915	0.135	364.5	0.113
373.038	0.131	364.75	0.105
373.25	0.135	365	0.11
373.5	0.132	365.25	0.11
373.75	0.134	365.5	0.11
374	0.125	365.75	0.11
374.25	0.133	366	0.112
374.5	0.135	366.25	0.112
374.75	0.138	366.5	0.113
375	0.134	366.75	0.11
375.25	0.13	367	0.112
375.5	0.133	367.25	0.108
375.75	0.135	367.5	0.112
376	0.134	367.75	0.109
376.25	0.139	368	0.109
376.5	0.134	368.25	0.112
376.75	0.135	368.5	0.11
377	0.133	368.75	0.108
377.25	0.138	369	0.103
377.793	0.135	369.25	0.106
377.915	0.132	369.5	0.109
378.038	0.132	369.75	0.108
378.25	0.134	370	0.105
378.5	0.129	370.25	0.11
378.75	0.134	370.5	0.108
379	0.136	370.75	0.108
379.25	0.13	371	0.111
379.5	0.129	371.25	0.106
379.75	0.128	371.5	0.106
380	0.137	371.75	0.11
380.25	0.133	372	0.109
380.5	0.129	372.25	0.107
380.75	0.133	372.5	0.112
381	0.13	372.75	0.108
381.25	0.131	373	0.112
381.5	0.132		
381.75	0.138		
382	0.134		
382.25	0.129		
382.792	0.132		
382.915	0.13		
383.037	0.13		
383.25	0.13		
383.5	0.134		
383.75	0.131		
384	0.131		
384.25	0.13		
384.5	0.134		
384.75	0.131		
385	0.13		
385.25	0.133		
385.5	0.137		
385.75	0.131		
386	0.132		
386.25	0.137		
386.5	0.132		
386.75	0.129		
387	0.134		
387.25	0.136		
387.792	0.134		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
375.25	0.101	366.251	0.104
375.503	0.095	366.501	0.107
375.75	0.1	366.751	0.104
376	0.096	367.001	0.108
376.25	0.094	367.251	0.108
376.5	0.096	367.501	0.102
376.75	0.095	367.751	0.104
377	0.099	368.001	0.099
377.437	0.094	368.251	0.1
377.559	0.093	368.501	0.101
377.75	0.101	368.751	0.103
378	0.1	369.001	0.107
378.25	0.094	369.251	0.105
378.5	0.098	369.694	0.099
378.75	0.095	369.816	0.104
379	0.101	370.001	0.104
379.25	0.096	370.251	0.102
379.5	0.106	370.501	0.1
379.75	0.096	370.751	0.101
380	0.099	371.001	0.099
380.25	0.097	371.251	0.105
380.5	0.097	371.501	0.104
380.75	0.094	371.751	0.098
381	0.099	372.001	0.101
381.25	0.102	372.251	0.108
381.5	0.103	372.501	0.098
381.75	0.099	372.751	0.106
382	0.098	373.001	0.097
382.437	0.1	373.251	0.105
382.559	0.097	373.501	0.105
382.75	0.099	373.751	0.107
383	0.1	374.001	0.101
383.25	0.095	374.251	0.097
383.5	0.098	374.693	0.098
383.75	0.095	374.816	0.102
384	0.097	375.001	0.105
384.25	0.098	375.251	0.102
384.5	0.095	375.501	0.103
384.75	0.099	375.751	0.105
385	0.097	376.001	0.097
385.25	0.094	376.251	0.098
385.5	0.094	376.501	0.103
385.75	0.102	376.751	0.105
386	0.104	377.001	0.104
386.25	0.093	377.251	0.103
386.5	0.097	377.501	0.102
386.75	0.098	377.751	0.103
387	0.099	378.001	0.101
387.437	0.094	378.251	0.108
387.56	0.099	378.501	0.102
387.75	0.097	378.751	0.103
388	0.1	379.001	0.103
388.25	0.094	379.251	0.11
388.5	0.102	379.693	0.106
388.75	0.093	379.816	0.104
389	0.094	380.001	0.1
389.25	0.096	380.251	0.105
389.5	0.102	380.501	0.102
389.75	0.104	380.751	0.105
390	0.097	381.001	0.104
390.25	0.097	381.251	0.104
390.5	0.097	381.501	0.103
390.75	0.103	381.751	0.098
391	0.098	382.001	0.105
391.25	0.099	382.251	0.098
391.5	0.092	382.501	0.1
391.75	0.096	382.751	0.099
392	0.095	383.001	0.107
392.436	0.095	383.251	0.103
392.559	0.092	383.501	0.097
392.75	0.097	383.751	0.097

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
387.915	0.135		
388.037	0.134		
388.25	0.133		
388.5	0.133		
388.75	0.128		
389	0.136		
389.25	0.133		
389.5	0.135		
389.75	0.131		
390	0.123		
390.25	0.138		
390.5	0.135		
390.75	0.135		
391	0.134		
391.25	0.142		
391.5	0.133		
391.75	0.137		
392	0.13		
392.25	0.131		
392.791	0.134		
392.914	0.135		
393.037	0.139		
393.25	0.135		
393.5	0.134		
393.75	0.131		
394	0.136		
394.25	0.139		
394.5	0.135		
394.75	0.132		
395	0.137		
395.25	0.132		
395.5	0.134		
395.75	0.131		
396	0.137		
396.25	0.133		
396.5	0.138		
396.75	0.128		
397	0.133		
397.25	0.132		
397.791	0.132		
397.914	0.138		
398.037	0.136		
398.25	0.135		
398.5	0.137		
398.75	0.134		
399	0.134		
399.25	0.131		
399.5	0.134		
399.75	0.129		
400	0.132		
400.25	0.135		
400.5	0.133		
400.75	0.132		
401	0.132		
401.25	0.136		
401.5	0.132		
401.75	0.135		
402	0.133		
402.25	0.133		
402.791	0.138		
402.915	0.131		
403.038	0.138		
403.25	0.13		
403.5	0.139		
403.75	0.138		
404	0.132		
404.25	0.137		
404.5	0.136		
404.75	0.133		
405	0.13		
405.25	0.129		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
393	0.103	384.001	0.1
393.25	0.096	384.251	0.1
393.5	0.099	384.694	0.108
393.75	0.1	384.817	0.099
394	0.104	385.001	0.102
394.25	0.098	385.251	0.097
394.5	0.098	385.501	0.102
394.75	0.093	385.751	0.106
395	0.094	386.001	0.103
395.25	0.097	386.262	0.102
395.5	0.094	386.501	0.1
395.75	0.098	386.751	0.103
396	0.101	387.001	0.093
396.25	0.097	387.251	0.103
396.5	0.092	387.501	0.101
396.75	0.093	387.751	0.103
397	0.095	388.001	0.101
397.435	0.098	388.251	0.104
397.557	0.097	388.501	0.105
397.75	0.097	388.751	0.1
398	0.091	389.001	0.103
398.25	0.098	389.251	0.098
398.5	0.101	389.692	0.099
398.75	0.092	389.815	0.102
399	0.101	390.001	0.105
399.25	0.093	390.251	0.102
399.5	0.097	390.501	0.102
399.75	0.098	390.751	0.105
400	0.093	391.001	0.098
400.25	0.1	391.251	0.101
400.5	0.095	391.501	0.098
400.75	0.103	391.751	0.104
401	0.094	392.001	0.102
401.25	0.103	392.251	0.104
401.5	0.094	392.501	0.108
401.75	0.104	392.751	0.101
402	0.094	393.001	0.108
402.445	0.096	393.251	0.099
402.568	0.096	393.501	0.102
402.75	0.098	393.751	0.102
403	0.101	394.001	0.105
403.25	0.104	394.251	0.103
403.5	0.093	394.692	0.096
403.75	0.095	394.814	0.097
404	0.092	395.001	0.104
404.25	0.098	395.251	0.101
404.5	0.1	395.501	0.104
404.75	0.095	395.751	0.099
405	0.096	396.001	0.097
405.25	0.093	396.251	0.102
405.5	0.093	396.501	0.104
405.751	0.094	396.751	0.101
406	0.092	397.001	0.1
406.25	0.095	397.251	0.1
406.5	0.096	397.501	0.104
406.75	0.102	397.751	0.102
407	0.095	398.001	0.101
407.445	0.091	398.251	0.1
407.568	0.097	398.501	0.104
407.75	0.096	398.751	0.099
408	0.095	399.001	0.098
408.25	0.101	399.251	0.107
408.5	0.097	399.692	0.102
408.75	0.093	399.816	0.097
409	0.097	400.001	0.097
409.25	0.092	400.251	0.102
409.5	0.098	400.501	0.105
409.75	0.092	400.751	0.106
410	0.097	401.001	0.1
410.25	0.098	401.251	0.101
410.5	0.09	401.501	0.1

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
405.5	0.131		
405.75	0.132		
406	0.128		
406.25	0.13		
406.5	0.128		
406.75	0.129		
407	0.132		
407.25	0.131		
407.791	0.132		
407.914	0.139		
408.036	0.132		
408.25	0.132		
408.5	0.132		
408.75	0.131		
409	0.134		
409.25	0.131		
409.5	0.131		
409.75	0.131		
410	0.13		
410.25	0.13		
410.5	0.129		
410.75	0.131		
411	0.132		
411.25	0.134		
411.5	0.135		
411.75	0.132		
412	0.129		
412.25	0.126		
412.79	0.134		
412.913	0.136		
413.035	0.128		
413.25	0.138		
413.5	0.133		
413.75	0.127		
414	0.126		
414.25	0.128		
414.5	0.131		
414.75	0.128		
415	0.136		
415.25	0.132		
415.5	0.133		
415.75	0.132		
416	0.132		
416.25	0.133		
416.5	0.132		
416.75	0.127		
417	0.14		
417.25	0.13		
417.789	0.133		
417.912	0.136		
418.036	0.135		
418.25	0.134		
418.5	0.132		
418.75	0.131		
419	0.135		
419.25	0.129		
419.5	0.132		
419.75	0.13		
420	0.138		
420.25	0.136		
420.5	0.133		
420.75	0.134		
421	0.136		
421.25	0.128		
421.5	0.131		
421.75	0.134		
422	0.131		
422.25	0.133		
422.789	0.133		
422.912	0.131		
423.035	0.131		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
410.75	0.094	401.751	0.105
411	0.099	402.001	0.099
411.25	0.096	402.251	0.1
411.5	0.097	402.501	0.107
411.75	0.089	402.751	0.104
412	0.092	403.001	0.103
412.445	0.093	403.251	0.101
412.568	0.1	403.501	0.105
412.75	0.095	403.751	0.102
413	0.091	404.001	0.102
413.25	0.097	404.251	0.103
413.5	0.094	404.691	0.102
413.75	0.095	404.814	0.099
414	0.093	405.001	0.106
414.25	0.098	405.251	0.102
414.5	0.102	405.501	0.098
414.75	0.097	405.751	0.108
415	0.096	406.001	0.106
415.25	0.094	406.251	0.106
415.5	0.1	406.501	0.105
415.75	0.099	406.751	0.103
416	0.1	407.001	0.104
416.25	0.095	407.251	0.099
416.5	0.093	407.501	0.103
416.75	0.1	407.751	0.106
417	0.099	408.001	0.103
417.445	0.101	408.251	0.1
417.568	0.097	408.501	0.1
417.75	0.103	408.751	0.102
418	0.097	409.001	0.102
418.25	0.098	409.251	0.102
418.5	0.101	409.691	0.104
418.75	0.1	409.813	0.1
419	0.097	410.001	0.105
419.25	0.094	410.251	0.101
419.5	0.096	410.501	0.099
419.75	0.095	410.751	0.106
420	0.096	411.001	0.102
420.25	0.098	411.251	0.104
420.5	0.1	411.501	0.104
420.75	0.099	411.751	0.106
421	0.096	412.001	0.102
421.25	0.097	412.251	0.101
421.5	0.095	412.501	0.104
421.75	0.098	412.751	0.103
422	0.091	413.001	0.104
422.445	0.095	413.251	0.105
422.568	0.092	413.501	0.103
422.75	0.094	413.751	0.11
423	0.097	414.001	0.103
423.25	0.1	414.251	0.109
423.5	0.101	414.691	0.109
423.75	0.101	414.813	0.105
424	0.097	415.001	0.108
424.25	0.094	415.251	0.104
424.5	0.099	415.501	0.107
424.75	0.099	415.751	0.104
425	0.098	416.001	0.103
425.25	0.097	416.251	0.11
425.5	0.089	416.509	0.106
425.75	0.097	416.751	0.102
426	0.094	417.001	0.102
426.25	0.09	417.251	0.102
426.5	0.1	417.501	0.107
426.75	0.093	417.751	0.104
427	0.101	418.001	0.102
427.446	0.097	418.251	0.1
427.569	0.097	418.501	0.102
427.75	0.097	418.751	0.109
428	0.092	419.001	0.105
428.25	0.092	419.251	0.104

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
423.25	0.133		
423.5	0.136		
423.75	0.131		
424	0.134		
424.25	0.127		
424.5	0.13		
424.75	0.128		
425	0.131		
425.25	0.129		
425.5	0.132		
425.75	0.132		
426	0.135		
426.25	0.131		
426.5	0.133		
426.75	0.127		
427	0.134		
427.25	0.133		
427.788	0.133		
427.911	0.132		
428.034	0.134		
428.25	0.131		
428.5	0.137		
428.75	0.135		
429	0.129		
429.25	0.129		
429.5	0.132		
429.75	0.132		
430	0.139		
430.25	0.135		
430.5	0.126		
430.75	0.129		
431	0.133		
431.25	0.131		
431.5	0.131		
431.75	0.132		
432	0.135		
432.25	0.135		
432.788	0.135		
432.911	0.136		
433.034	0.128		
433.25	0.131		
433.5	0.132		
433.75	0.134		
434	0.135		
434.25	0.131		
434.5	0.128		
434.75	0.128		
435	0.128		
435.25	0.131		
435.5	0.136		
435.75	0.137		
436	0.133		
436.25	0.131		
436.5	0.136		
436.75	0.133		
437	0.134		
437.25	0.132		
437.788	0.129		
437.911	0.126		
438.034	0.133		
438.25	0.13		
438.5	0.127		
438.75	0.133		
439	0.137		
439.25	0.129		
439.5	0.131		
439.75	0.131		
440	0.131		
440.25	0.129		
440.5	0.133		
440.75	0.133		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
428.5	0.099	419.69	0.102
428.75	0.096	419.812	0.103
429	0.097	420.001	0.106
429.25	0.089	420.251	0.105
429.5	0.099	420.501	0.099
429.75	0.099	420.751	0.107
430	0.096	421.001	0.106
430.25	0.099	421.251	0.107
430.5	0.096	421.501	0.104
430.75	0.097	421.751	0.106
431	0.097	422.001	0.106
431.25	0.094	422.251	0.103
431.5	0.096	422.501	0.102
431.75	0.093	422.751	0.105
432	0.104	423.001	0.105
432.445	0.1	423.251	0.101
432.568	0.1	423.501	0.104
432.75	0.1	423.751	0.106
433	0.096	424.001	0.099
433.25	0.099	424.251	0.098
433.5	0.098	424.69	0.103
433.75	0.099	424.812	0.105
434	0.099	425.001	0.106
434.25	0.092	425.251	0.106
434.5	0.1	425.501	0.099
434.75	0.099	425.751	0.103
435	0.1	426.001	0.103
435.25	0.097	426.251	0.107
435.5	0.095	426.501	0.099
435.75	0.091	426.751	0.107
436	0.098	427.001	0.107
436.25	0.097	427.251	0.1
436.5	0.098	427.501	0.106
436.75	0.098	427.751	0.107
437	0.103	428.001	0.105
437.445	0.097	428.251	0.105
437.568	0.097	428.501	0.103
437.75	0.095	428.751	0.098
438	0.094	429.001	0.103
438.25	0.096	429.251	0.107
438.5	0.095	429.69	0.097
438.75	0.096	429.812	0.098
439	0.096	430.001	0.1
439.25	0.099	430.251	0.098
439.5	0.099	430.501	0.101
439.75	0.095	430.751	0.105
440	0.095	431.001	0.099
440.25	0.1	431.251	0.099
440.5	0.097	431.501	0.101
440.75	0.094	431.751	0.099
441	0.092	432.001	0.102
441.25	0.1	432.251	0.108
441.5	0.092	432.501	0.103
441.75	0.098	432.751	0.102
442	0.099	433.132	0.099
442.445	0.091	433.256	0.107
442.569	0.097	433.501	0.102
442.75	0.099	433.751	0.098
443	0.097	434.037	0.102
443.25	0.096	434.251	0.102
443.5	0.096	434.501	0.106
443.75	0.099	434.751	0.098
444	0.096	435.001	0.102
444.25	0.098	435.251	0.103
444.5	0.093	435.501	0.101
444.75	0.101	435.751	0.106
445	0.099	436.001	0.1
445.25	0.096	436.251	0.102
445.5	0.097	436.501	0.105
445.75	0.097	436.751	0.098
446	0.098	437.001	0.1

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
441	0.133		
441.25	0.133		
441.5	0.129		
441.75	0.132		
442	0.132		
442.25	0.132		
442.787	0.13		
442.91	0.131		
443.032	0.131		
444.25	0.127		
444.372	0.13		
444.495	0.129		
444.618	0.131		
444.741	0.139		
444.863	0.14		
444.985	0.135		
445.108	0.14		
445.25	0.127		
445.5	0.13		
445.75	0.133		
446	0.13		
446.25	0.133		
446.5	0.134		
446.75	0.139		
447	0.133		
447.25	0.133		
447.5	0.133		
448.046	0.14		
448.168	0.132		
448.291	0.132		
448.5	0.137		
448.75	0.129		
449	0.138		
449.25	0.131		
449.5	0.134		
449.75	0.131		
450	0.131		
450.25	0.13		
450.5	0.128		
450.75	0.134		
451	0.126		
451.25	0.134		
451.5	0.13		
451.75	0.125		
452	0.131		
452.25	0.134		
452.5	0.132		
453.045	0.129		
453.168	0.134		
453.29	0.127		
453.5	0.13		
453.75	0.135		
454	0.134		
454.25	0.13		
454.5	0.135		
454.75	0.133		
455	0.137		
455.25	0.126		
455.5	0.134		
455.75	0.132		
456	0.134		
456.25	0.13		
456.5	0.131		
456.75	0.136		
457	0.128		
457.25	0.132		
457.5	0.123		
458.045	0.134		
458.167	0.135		
458.29	0.136		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
446.25	0.104	437.251	0.1
446.5	0.098	437.501	0.098
446.75	0.094	437.751	0.098
447	0.098	438.001	0.105
447.445	0.098	438.251	0.105
447.568	0.093	438.501	0.1
447.75	0.097	438.751	0.102
448	0.094	439.001	0.105
448.25	0.099	439.251	0.1
448.5	0.098	439.501	0.102
448.75	0.099	439.751	0.105
449	0.096	440.001	0.103
449.25	0.098	440.251	0.104
449.5	0.099	440.501	0.102
449.75	0.1	440.751	0.105
450	0.097	441.001	0.107
450.25	0.095	441.251	0.103
450.5	0.091		
450.75	0.098		
451	0.094		
451.25	0.099		
451.5	0.1		
451.75	0.096		
452	0.102		
452.445	0.098		
452.568	0.099		
452.75	0.101		
453	0.096		
453.25	0.094		
453.5	0.097		
453.75	0.099		
454	0.097		
454.25	0.1		
454.5	0.096		
454.75	0.091		
455.063	0.103		
455.25	0.096		
455.5	0.092		
455.75	0.099		
456	0.095		
456.25	0.099		
456.5	0.103		
456.75	0.097		
457	0.098		
457.25	0.096		
457.5	0.099		
457.75	0.097		
458	0.093		
458.25	0.096		
458.5	0.097		
458.75	0.099		
459	0.096		
459.25	0.099		
459.5	0.099		
459.75	0.098		
460	0.099		
460.25	0.097		
460.5	0.096		
460.75	0.097		
461	0.098		
461.25	0.1		
461.5	0.104		
461.75	0.101		
462	0.097		
462.25	0.097		

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
458.5	0.133		
458.75	0.132		
459	0.133		
459.25	0.133		
459.5	0.131		
459.75	0.135		
460	0.126		
460.25	0.133		
460.5	0.139		
460.75	0.134		
461	0.133		
461.25	0.133		
461.5	0.137		
461.75	0.129		
462	0.136		
462.25	0.134		
462.5	0.137		
463.045	0.135		
463.167	0.135		
463.29	0.131		
463.5	0.134		
463.75	0.136		
464	0.132		
464.25	0.131		
464.5	0.133		
464.75	0.132		
465	0.137		
465.25	0.136		
465.5	0.135		
465.75	0.134		
466	0.132		
466.25	0.136		
466.5	0.133		
466.75	0.131		
467	0.135		
467.25	0.133		
467.5	0.134		
468.044	0.13		
468.167	0.135		
468.29	0.139		
468.5	0.135		
468.75	0.137		
469	0.137		
469.25	0.136		
469.5	0.133		
469.75	0.132		
470	0.13		
470.25	0.13		
470.5	0.131		
470.75	0.131		
471	0.132		
471.25	0.131		
471.5	0.129		
471.75	0.128		
472	0.13		
472.25	0.132		
472.5	0.133		
473.044	0.138		
473.168	0.133		
473.29	0.13		
473.5	0.134		
473.75	0.136		
474	0.134		
474.25	0.131		
474.5	0.129		
474.75	0.134		
475	0.131		
475.25	0.134		
475.5	0.138		
475.75	0.133		
476	0.129		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
476.25	0.132		
476.5	0.131		
476.75	0.135		
477	0.136		
477.25	0.135		
477.5	0.132		
478.044	0.13		
478.166	0.137		
478.289	0.136		
478.5	0.135		
478.75	0.138		
479	0.136		
479.25	0.133		
479.5	0.133		
479.75	0.134		
480	0.133		
480.25	0.133		
480.5	0.133		
480.75	0.134		
481	0.133		
481.25	0.132		
481.5	0.132		
481.75	0.132		
482	0.132		
482.25	0.133		
482.5	0.132		
483.043	0.13		
483.166	0.128		
483.289	0.135		
483.5	0.129		
483.75	0.131		
484	0.129		
484.25	0.128		
484.5	0.134		
484.75	0.13		
485	0.133		
485.25	0.126		
485.5	0.132		
485.75	0.134		
486	0.13		
486.25	0.128		
486.5	0.134		
486.75	0.131		
487	0.13		
487.25	0.128		
487.5	0.132		
488.043	0.134		
488.167	0.138		
488.29	0.131		
488.5	0.132		
488.75	0.13		
489	0.132		
489.25	0.129		
489.5	0.127		
489.75	0.141		
490	0.133		
490.25	0.136		
490.5	0.133		
490.75	0.131		
491	0.133		
491.25	0.13		
491.5	0.133		
491.75	0.133		
492	0.134		
492.25	0.135		
492.5	0.134		
493.043	0.135		
493.166	0.134		
493.289	0.134		
493.5	0.128		
493.75	0.127		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
494	0.129		
494.25	0.134		
494.5	0.131		
494.75	0.128		
495	0.137		
495.25	0.136		
495.5	0.131		
495.75	0.13		
496	0.129		
496.25	0.132		
496.5	0.134		
496.75	0.131		
497	0.135		
497.25	0.135		
497.5	0.133		
498.043	0.133		
498.165	0.135		
498.288	0.129		
498.5	0.13		
498.75	0.132		
499	0.122		
499.25	0.135		
499.5	0.127		
499.75	0.128		
500	0.135		
500.25	0.13		
500.5	0.136		
500.75	0.129		
501	0.13		
501.25	0.129		
501.5	0.132		
501.75	0.128		
502	0.127		
502.25	0.13		
502.5	0.13		
503.043	0.134		
503.165	0.131		
503.289	0.131		
503.5	0.13		
503.75	0.13		
504	0.134		
504.25	0.129		
504.5	0.13		
504.75	0.13		
505	0.131		
505.25	0.126		
505.5	0.131		
505.75	0.13		
506	0.133		
506.25	0.133		
506.5	0.127		
506.75	0.131		
507	0.132		
507.25	0.129		
507.5	0.131		
508.042	0.136		
508.165	0.127		
508.287	0.134		
508.5	0.132		
508.75	0.132		
509	0.128		
509.25	0.132		
509.5	0.131		
509.75	0.134		
510	0.129		
510.25	0.13		
510.5	0.127		
510.75	0.126		
511	0.131		
511.25	0.133		
511.5	0.137		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
511.75	0.134		
512	0.132		
512.25	0.127		
512.5	0.132		
513.042	0.135		
513.165	0.133		
513.287	0.132		
513.5	0.134		
513.75	0.133		
514	0.133		
514.25	0.13		
514.5	0.134		
514.75	0.141		
515	0.131		
515.25	0.136		
515.5	0.131		
515.75	0.131		
516	0.135		
516.25	0.135		
516.5	0.134		
516.75	0.135		
517	0.134		
517.25	0.134		
517.5	0.131		
518.042	0.129		
518.165	0.135		
518.287	0.13		
518.5	0.13		
518.75	0.132		
519	0.135		
519.25	0.134		
519.5	0.135		
519.75	0.134		
520	0.14		
520.25	0.131		
520.5	0.129		
520.75	0.13		
521	0.139		
521.25	0.129		
521.5	0.13		
521.75	0.132		
522	0.133		
522.25	0.133		
522.5	0.133		
523.041	0.134		
523.164	0.133		
523.287	0.13		
523.5	0.13		
523.75	0.128		
524	0.13		
524.25	0.13		
524.5	0.134		
524.75	0.131		
525	0.136		
525.25	0.133		
525.5	0.135		
525.75	0.132		
526	0.129		
526.25	0.13		
526.5	0.135		
526.75	0.134		
527	0.132		
527.25	0.134		
527.5	0.136		
528.041	0.133		
528.164	0.138		
528.287	0.136		
528.5	0.131		
528.75	0.131		
529	0.135		
529.25	0.139		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
529.5	0.129		
529.75	0.13		
530	0.133		
530.25	0.127		
530.5	0.134		
530.75	0.134		
531	0.128		
531.25	0.131		
531.5	0.127		
531.75	0.124		
532	0.13		
532.25	0.131		
532.5	0.133		
533.041	0.138		
533.164	0.135		
533.287	0.133		
533.5	0.13		
533.75	0.129		
534	0.132		
534.25	0.129		
534.5	0.128		
534.75	0.132		
535	0.131		
535.25	0.135		
535.5	0.129		
535.75	0.135		
536	0.13		
536.25	0.135		
536.5	0.133		
536.75	0.133		
537	0.134		
537.25	0.132		
537.5	0.125		
538.04	0.137		
538.163	0.137		
538.286	0.136		
538.5	0.131		
538.75	0.131		
539	0.134		
539.25	0.133		
539.5	0.132		
539.75	0.129		
540	0.135		
540.25	0.137		
540.5	0.135		
540.75	0.131		
541	0.136		
541.25	0.132		
541.5	0.128		
541.75	0.132		
542	0.134		
542.25	0.13		
542.5	0.129		
543.04	0.13		
543.164	0.134		
543.286	0.137		
543.5	0.13		
543.75	0.133		
544	0.133		
544.25	0.127		
544.5	0.135		
544.75	0.128		
545	0.138		
545.25	0.132		
545.5	0.136		
545.75	0.135		
546	0.13		
546.25	0.13		
546.5	0.137		
546.75	0.13		
547	0.135		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
547.25	0.13		
547.5	0.132		
548.039	0.135		
548.162	0.132		
548.285	0.132		
548.5	0.129		
548.75	0.13		
549	0.132		
549.25	0.134		
549.5	0.133		
549.75	0.128		
550	0.128		
550.25	0.135		
550.5	0.127		
550.75	0.13		
551	0.133		
551.25	0.138		
551.5	0.125		
551.75	0.138		
552	0.131		
552.25	0.131		
552.5	0.128		
553.039	0.128		
553.162	0.132		
553.285	0.132		
553.5	0.128		
553.75	0.127		
554	0.129		
554.25	0.133		
554.5	0.132		
554.75	0.126		
555	0.135		
555.25	0.127		
555.5	0.133		
555.75	0.122		
556	0.128		
556.25	0.13		
556.5	0.131		
556.75	0.129		
557	0.132		
557.25	0.124		
557.5	0.129		
558.039	0.13		
558.161	0.131		
558.285	0.128		
558.5	0.128		
558.75	0.131		
559	0.131		
559.25	0.129		
559.5	0.132		
559.75	0.129		
560	0.131		
560.25	0.129		
560.5	0.131		
560.75	0.129		
561	0.128		
561.25	0.128		
561.5	0.128		
561.75	0.132		
562	0.13		
562.25	0.13		
562.5	0.132		
563.038	0.137		
563.161	0.128		
563.284	0.135		
563.5	0.131		
563.75	0.125		
564	0.13		
564.25	0.132		
564.5	0.128		
564.75	0.133		

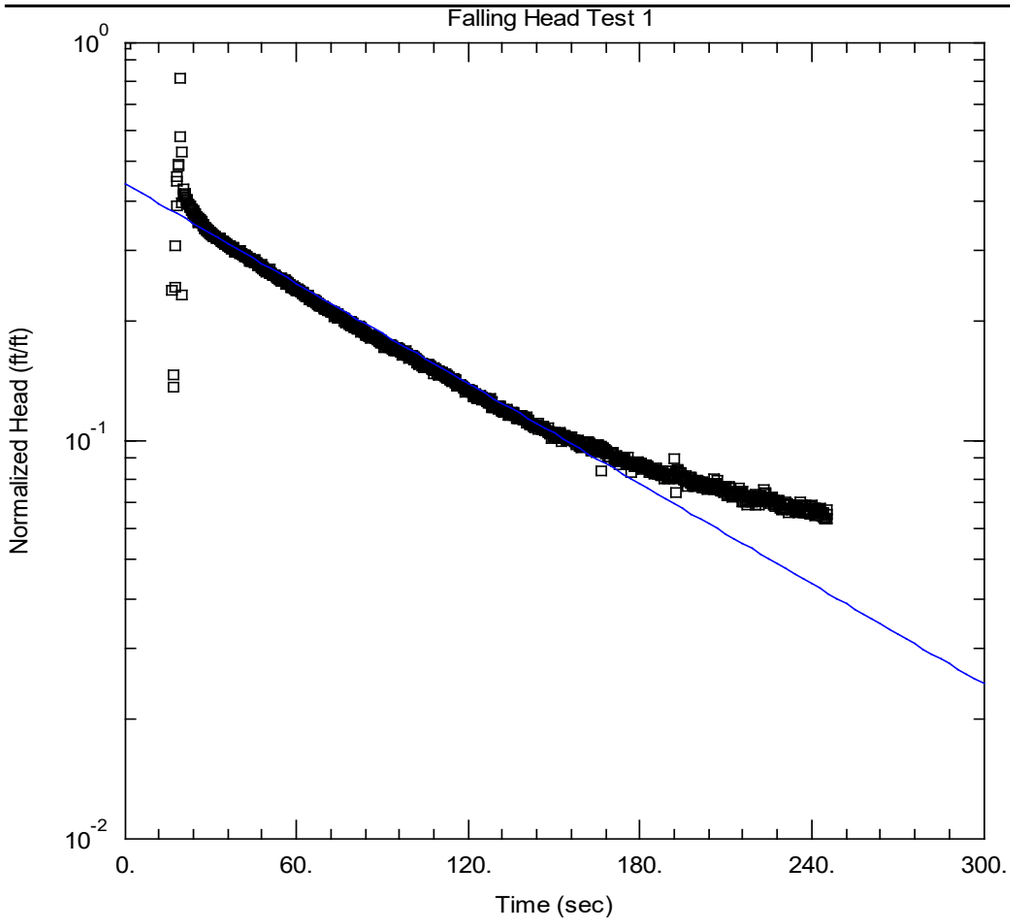
MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

MW-161-3			
Falling Head Test 1		Falling Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static
565	0.125		
565.25	0.131		
565.5	0.129		
565.75	0.131		
566	0.13		
566.25	0.138		
566.5	0.124		
566.75	0.126		
567.011	0.135		
567.25	0.131		
567.502	0.13		
567.75	0.129		
568	0.135		
568.25	0.133		
568.5	0.126		
568.75	0.13		
569	0.132		
569.25	0.135		
569.5	0.131		
569.75	0.129		
570	0.13		
570.25	0.129		
570.5	0.13		
570.75	0.13		
571	0.128		
571.25	0.132		
571.5	0.136		
571.75	0.131		
572	0.133		
572.25	0.131		
572.5	0.127		
572.75	0.129		
573	0.132		
573.25	0.133		
573.5	0.131		
573.75	0.132		
574	0.129		
574.25	0.132		
574.5	0.13		
574.75	0.131		
575	0.128		
575.25	0.129		
575.501	0.127		

MW-161-3			
Rising Head Test 1		Rising Head Test 2	
Elapsed Time	Deviation from Static	Elapsed Time	Deviation from Static

Hydraulic Conductivity using AQTESOLV Pro

MW-161-4 Falling Head Tests



Obs. Wells
- MW-161-4

Aquifer Model
Unconfined

Solution
Bouwer-Rice

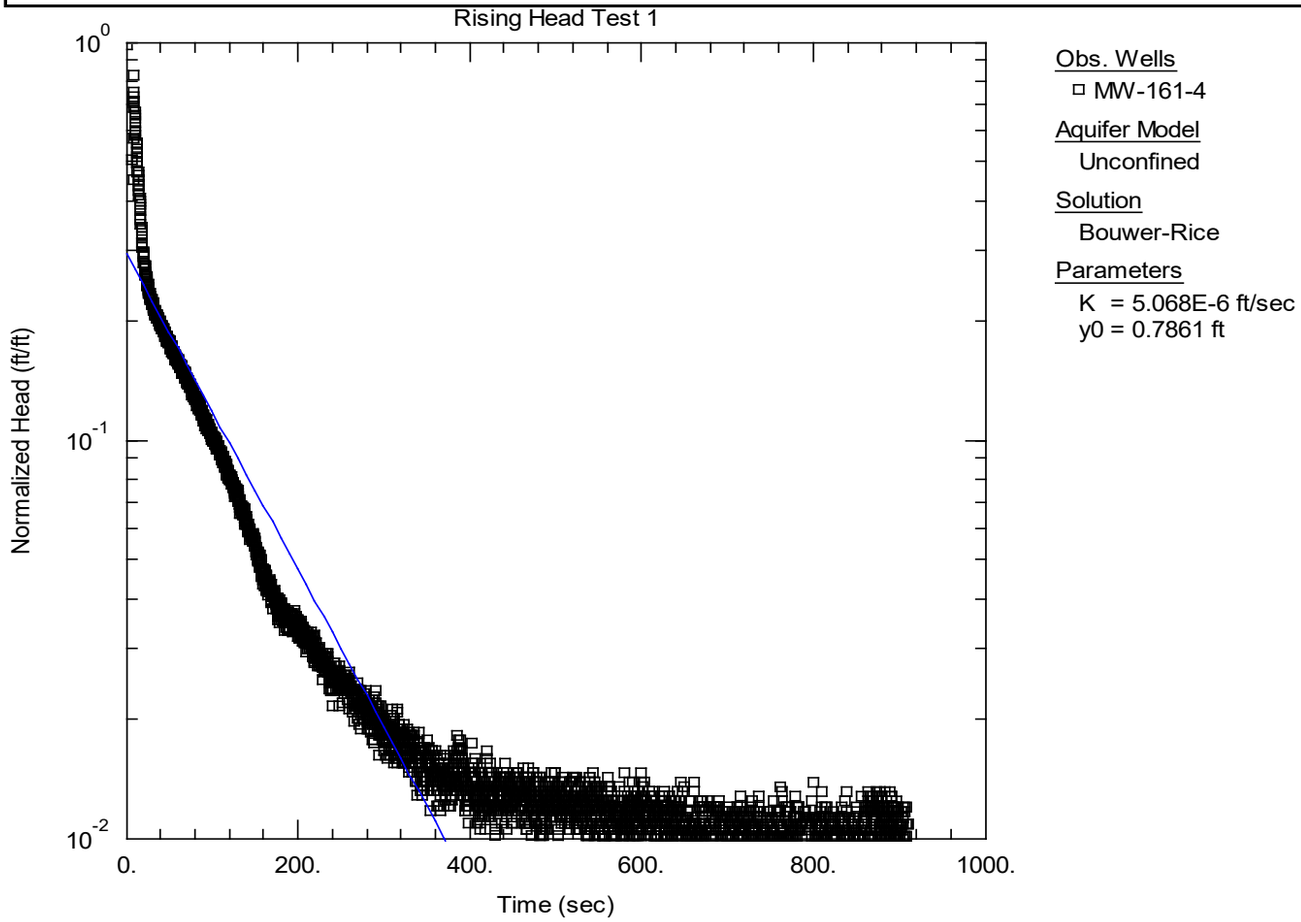
Parameters
K = 5.36E-6 ft/sec
y0 = 1.175 ft

Hydraulic Conductivity (K) = 0.4631 ft/ day

Groundwater Velocity (V*x*) = 1.4939 ft/ day

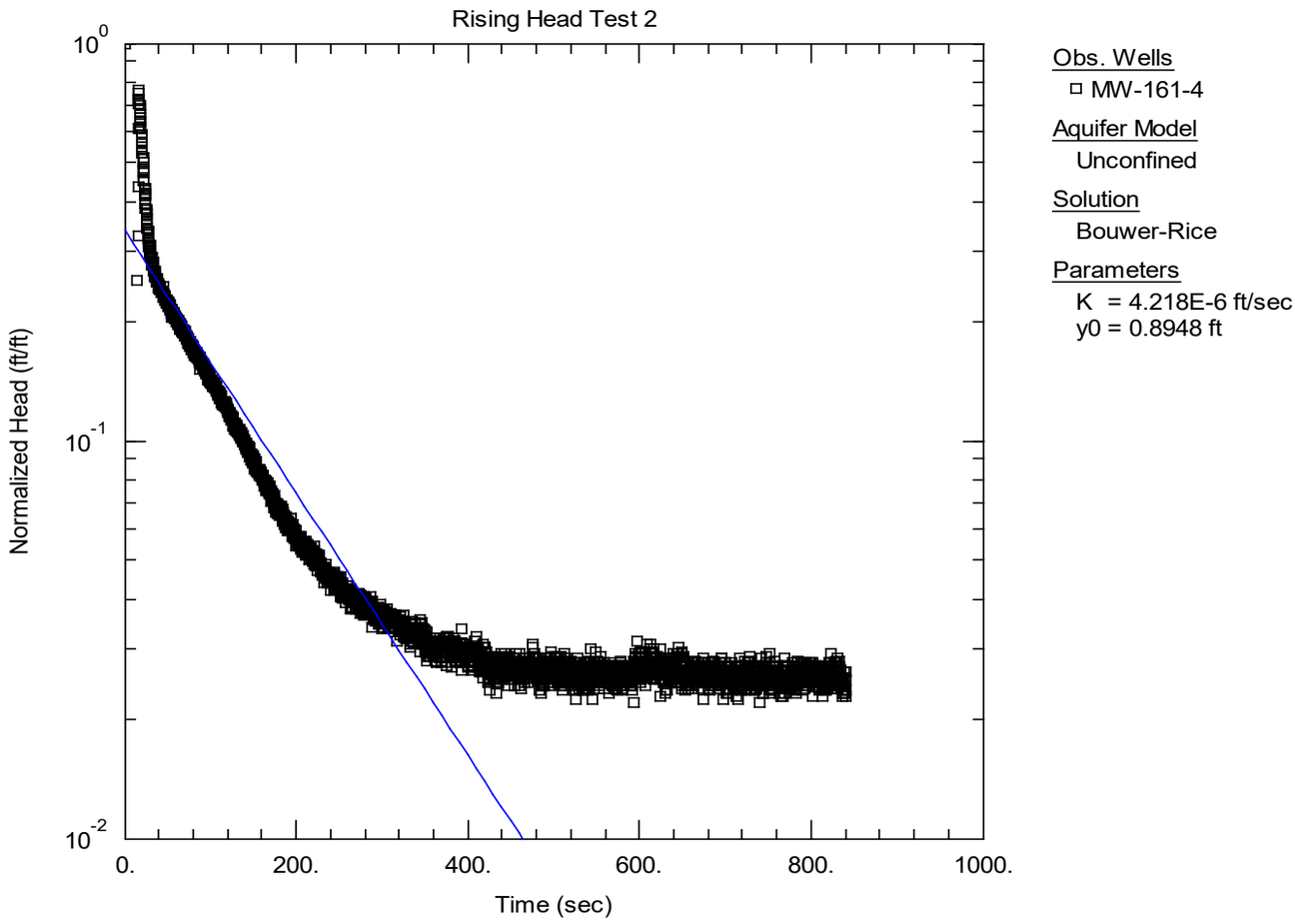
Hydraulic Conductivity using AQTESOLV Pro

MW-161-4 Rising Head Tests



Hydraulic Conductivity (K) = 0.4379 ft/ day

Groundwater Velocity (V*x*) = 1.4145 ft/ day



Hydraulic Conductivity (K) = 0.3644 ft/ day
Groundwater Velocity (V*x*) = 1.1756 ft/ day

Hydraulic Conductivity (K) Average = 0.4012 ft/ day
Groundwater Velocity (V*x*) Average = 1.2951 ft/ day

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
0	0.031	7.501	1.335	15.251	0.667
0.25	0.029	7.751	1.19	15.501	0.868
0.5	0.022	8.001	1.515	15.751	1.152
0.75	0.034	8.251	2.176	16.001	1.606
1	0.03	8.501	1.976	16.251	2.005
1.25	0.036	8.751	1.931	16.501	1.975
1.5	0.029	9.001	1.879	16.946	1.909
1.75	0.031	9.251	1.851	17.069	1.887
2	0.033	9.501	1.811	17.251	1.865
2.25	0.04	9.751	1.763	17.501	1.834
2.685	0.038	10.001	1.725	17.751	1.811
2.808	0.033	10.251	1.694	18.001	1.748
3	0.04	10.501	1.651	18.251	1.72
3.25	0.035	10.751	1.582	18.501	1.69
3.5	0.031	11.001	1.576	18.751	1.663
3.75	0.029	11.251	1.542	19.001	1.625
4	0.037	11.501	1.543	19.251	1.609
4.25	0.037	11.751	1.472	19.501	1.558
4.5	0.036	12.001	1.457	19.751	1.532
4.75	0.034	12.251	1.429	20.001	1.49
5	0.039	12.501	1.4	20.251	1.484
5.25	0.037	12.751	1.36	20.501	1.454
5.5	0.038	13.001	1.32	20.751	1.422
5.75	0.033	13.251	1.31	21.001	1.398
6	0.039	13.501	1.246	21.251	1.356
6.25	0.039	13.751	1.246	21.501	1.329
6.5	0.036	14.001	1.193	21.948	1.325
6.75	0.033	14.251	1.227	22.07	1.283
7	0.037	14.501	1.159	22.251	1.266
7.25	0.037	14.751	1.149	22.501	1.242
7.685	0.042	15.001	1.118	22.751	1.187
7.808	0.039	15.251	1.086	23.001	1.187
8	0.035	15.501	1.068	23.251	1.106
8.25	0.031	15.751	1.019	23.501	1.141
8.5	0.03	16.001	1.051	23.751	1.132
8.75	0.038	16.251	1.035	24.001	1.096
9	0.041	16.501	0.994	24.251	1.091
9.25	0.033	16.751	0.957	24.501	1.104
9.5	0.044	17.001	0.949	24.751	1.043
9.75	0.039	17.251	0.922	25.001	1.013
10	0.037	17.501	0.902	25.251	1.005
10.25	0.034	17.751	0.887	25.501	0.988
10.5	0.045	18.001	0.872	25.751	0.98
10.75	0.039	18.251	0.854	26.001	0.953
11	0.033	18.501	0.822	26.251	0.943
11.25	0.039	18.751	0.825	26.501	0.919
11.5	0.047	19.001	0.828	26.946	0.904
11.75	0.037	19.251	0.805	27.068	0.89
12	0.036	19.501	0.786	27.251	0.878
12.25	0.043	19.751	0.774	27.501	0.874
12.685	0.04	20.001	0.776	27.751	0.861
12.809	0.037	20.251	0.765	28.001	0.853
13	0.044	20.501	0.762	28.251	0.848
13.25	0.034	20.751	0.738	28.501	0.833
13.5	0.043	21.001	0.734	28.751	0.814
13.75	0.047	21.251	0.726	29.001	0.818
14	0.043	21.501	0.725	29.251	0.81
14.25	0.043	21.751	0.718	29.501	0.801
14.5	0.053	22.001	0.709	29.751	0.795
14.75	0.044	22.251	0.699	30.001	0.785
15	0.042	22.501	0.695	30.251	0.783
15.25	0.044	22.751	0.688	30.501	0.775
15.5	0.044	23.001	0.684	30.751	0.773
15.75	0.041	23.251	0.68	31.001	0.766
16	0.052	23.501	0.675	31.251	0.767
16.25	0.049	23.751	0.67	31.501	0.755
16.5	0.053	24.001	0.664	31.946	0.745
16.75	0.63	24.251	0.656	32.068	0.745
17	0.359	24.501	0.649	32.251	0.739
17.25	0.386	24.751	0.65	32.501	0.735
17.685	0.637	25.001	0.643	32.751	0.733

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
17.808	0.811	25.251	0.649	33.001	0.724
18	1.209	25.501	0.635	33.251	0.725
18.25	1.026	25.751	0.635	33.501	0.717
18.5	1.182	26.001	0.628	33.751	0.712
18.75	1.288	26.251	0.63	34.001	0.744
19	1.3	26.501	0.639	34.251	0.707
19.25	1.526	26.751	0.623	34.501	0.706
19.5	2.135	27.001	0.618	34.751	0.695
19.763	0.614	27.251	0.616	35.001	0.703
20	1.044	27.501	0.607	35.251	0.694
20.25	1.399	27.751	0.608	35.501	0.693
20.5	1.089	28.001	0.607	35.751	0.688
20.75	1.127	28.251	0.603	36.001	0.687
21	1.103	28.501	0.602	36.251	0.684
21.25	1.084	28.751	0.596	36.501	0.679
21.5	1.064	29.001	0.593	36.946	0.675
21.75	1.061	29.251	0.594	37.069	0.676
22	1.048	29.501	0.587	37.251	0.673
22.25	1.034	29.751	0.586	37.501	0.67
22.685	1.027	30.001	0.587	37.751	0.666
22.808	1.021	30.251	0.583	38.001	0.666
23	1.012	30.501	0.58	38.251	0.663
23.25	1.006	30.751	0.581	38.501	0.663
23.5	0.994	31.001	0.576	38.751	0.655
23.75	1.001	31.251	0.587	39.001	0.652
24	0.988	31.501	0.57	39.251	0.65
24.25	0.98	31.751	0.572	39.501	0.647
24.5	0.976	32.001	0.567	39.751	0.641
24.75	0.97	32.251	0.568	40.001	0.653
25	0.959	32.501	0.564	40.251	0.651
25.25	0.955	32.751	0.56	40.501	0.642
25.5	0.954	33.001	0.56	40.751	0.643
25.75	0.94	33.251	0.556	41.001	0.645
26	0.928	33.501	0.552	41.251	0.642
26.25	0.939	33.751	0.553	41.501	0.638
26.5	0.945	34.001	0.546	41.945	0.634
26.75	0.936	34.251	0.549	42.068	0.633
27	0.926	34.501	0.547	42.251	0.632
27.25	0.918	34.751	0.547	42.501	0.629
27.685	0.91	35.001	0.544	42.751	0.625
27.808	0.907	35.251	0.541	43.001	0.624
28	0.898	35.501	0.537	43.251	0.625
28.25	0.902	35.751	0.538	43.501	0.624
28.5	0.892	36.001	0.543	43.751	0.624
28.75	0.895	36.251	0.534	44.001	0.623
29	0.886	36.501	0.534	44.251	0.62
29.25	0.881	36.751	0.533	44.501	0.617
29.5	0.879	37.001	0.535	44.751	0.615
29.75	0.88	37.251	0.53	45.001	0.644
30	0.87	37.501	0.524	45.251	0.613
30.25	0.865	37.751	0.528	45.501	0.615
30.5	0.874	38.001	0.524	45.751	0.604
30.75	0.866	38.251	0.524	46.001	0.607
31	0.86	38.501	0.525	46.251	0.604
31.25	0.856	38.751	0.525	46.501	0.609
31.5	0.857	39.001	0.521	46.945	0.601
31.75	0.856	39.251	0.524	47.068	0.6
32	0.853	39.501	0.517	47.251	0.596
32.25	0.851	39.751	0.518	47.501	0.6
32.685	0.851	40.001	0.515	47.751	0.603
32.808	0.848	40.251	0.517	48.001	0.598
33	0.847	40.501	0.512	48.251	0.593
33.25	0.849	40.751	0.513	48.501	0.598
33.5	0.84	41.001	0.506	48.751	0.593
33.75	0.836	41.251	0.511	49.001	0.596
34	0.834	41.501	0.503	49.251	0.591
34.25	0.825	41.751	0.505	49.501	0.584
34.5	0.833	42.001	0.508	49.751	0.593
34.75	0.831	42.251	0.503	50.001	0.589
35	0.822	42.501	0.504	50.251	0.587
35.25	0.82	42.751	0.5	50.501	0.591

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
35.5	0.822	43.001	0.502	50.751	0.585
35.75	0.823	43.251	0.502	51.001	0.584
36	0.814	43.501	0.496	51.251	0.575
36.25	0.812	43.751	0.493	51.501	0.582
36.5	0.812	44.001	0.496	51.945	0.585
36.75	0.81	44.251	0.494	52.068	0.575
37	0.805	44.501	0.492	52.251	0.58
37.25	0.799	44.751	0.486	52.501	0.581
37.685	0.805	45.001	0.49	52.751	0.577
37.808	0.807	45.251	0.482	53.001	0.568
38	0.796	45.501	0.487	53.251	0.571
38.25	0.795	45.751	0.482	53.501	0.572
38.5	0.792	46.001	0.48	53.751	0.567
38.75	0.787	46.251	0.485	54.001	0.567
39	0.787	46.501	0.482	54.251	0.563
39.25	0.789	46.751	0.479	54.501	0.563
39.5	0.788	47.001	0.483	54.751	0.559
39.75	0.787	47.251	0.474	55.001	0.557
40	0.79	47.501	0.482	55.251	0.542
40.25	0.788	47.751	0.477	55.501	0.558
40.5	0.779	48.001	0.467	55.751	0.551
40.75	0.78	48.251	0.47	56.001	0.553
41	0.78	48.501	0.473	56.251	0.554
41.25	0.771	48.751	0.47	56.501	0.549
41.5	0.77	49.001	0.469	56.945	0.556
41.75	0.768	49.251	0.464	57.068	0.545
42	0.768	49.501	0.464	57.251	0.551
42.25	0.765	49.751	0.465	57.501	0.541
42.685	0.761	50.001	0.467	57.751	0.547
42.808	0.766	50.251	0.467	58.001	0.546
43	0.76	50.501	0.467	58.251	0.542
43.25	0.757	50.751	0.456	58.501	0.541
43.5	0.752	51.001	0.466	58.751	0.534
43.75	0.756	51.251	0.46	59.001	0.539
44	0.746	51.501	0.454	59.251	0.538
44.25	0.747	51.751	0.46	59.501	0.535
44.5	0.745	52.001	0.449	59.751	0.536
44.75	0.741	52.251	0.455	60.001	0.528
45	0.751	52.501	0.451	60.251	0.536
45.25	0.751	52.751	0.454	60.501	0.533
45.5	0.739	53.001	0.451	60.751	0.525
45.75	0.737	53.251	0.448	61.001	0.526
46	0.734	53.501	0.448	61.251	0.529
46.25	0.735	53.751	0.448	61.501	0.527
46.5	0.73	54.001	0.441	61.945	0.527
46.75	0.726	54.251	0.441	62.067	0.524
47	0.725	54.501	0.44	62.251	0.526
47.25	0.727	54.751	0.438	62.501	0.529
47.685	0.719	55.001	0.439	62.751	0.523
47.81	0.722	55.251	0.435	63.001	0.518
48	0.728	55.501	0.438	63.251	0.525
48.25	0.718	55.751	0.439	63.501	0.519
48.5	0.711	56.001	0.43	63.751	0.52
48.75	0.714	56.251	0.434	64.001	0.514
49	0.707	56.501	0.433	64.251	0.515
49.25	0.706	56.751	0.427	64.501	0.513
49.5	0.71	57.001	0.427	64.751	0.518
49.75	0.698	57.251	0.43	65.001	0.515
50	0.703	57.501	0.422	65.251	0.508
50.435	0.701	57.751	0.421	65.501	0.502
50.558	0.709	58.001	0.423	65.751	0.513
50.75	0.693	58.251	0.422	66.001	0.51
51	0.695	58.501	0.42	66.251	0.507
51.25	0.693	58.751	0.424	66.501	0.507
51.5	0.69	59.001	0.422	66.945	0.503
51.75	0.686	59.251	0.421	67.067	0.503
52	0.684	59.501	0.417	67.251	0.504
52.25	0.684	59.751	0.42	67.501	0.499
52.5	0.686	60.001	0.415	67.751	0.502
52.75	0.682	60.251	0.422	68.001	0.499
53	0.679	60.501	0.415	68.251	0.495

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
53.25	0.683	60.751	0.415	68.501	0.495
53.5	0.676	61.001	0.409	68.751	0.493
53.75	0.677	61.251	0.418	69.001	0.493
54	0.677	61.501	0.414	69.251	0.495
54.25	0.671	61.751	0.415	69.501	0.488
54.5	0.674	62.001	0.404	69.751	0.497
54.75	0.674	62.251	0.403	70.001	0.487
55	0.663	62.501	0.406	70.251	0.488
55.436	0.665	62.751	0.411	70.501	0.49
55.559	0.665	63.001	0.404	70.751	0.492
55.75	0.67	63.251	0.408	71.001	0.487
56	0.666	63.501	0.402	71.251	0.484
56.25	0.663	63.751	0.405	71.501	0.486
56.5	0.653	64.001	0.398	71.945	0.483
56.75	0.652	64.251	0.406	72.067	0.479
57	0.655	64.501	0.403	72.251	0.479
57.25	0.658	64.751	0.398	72.501	0.483
57.5	0.65	65.001	0.387	72.751	0.476
57.75	0.652	65.251	0.396	73.001	0.48
58	0.641	65.501	0.401	73.251	0.478
58.25	0.642	65.751	0.393	73.501	0.471
58.5	0.644	66.001	0.394	73.751	0.474
58.75	0.64	66.251	0.392	74.001	0.476
59	0.637	66.501	0.39	74.251	0.466
59.25	0.636	66.751	0.392	74.501	0.466
59.5	0.638	67.001	0.391	74.751	0.47
59.75	0.631	67.251	0.388	75.001	0.469
60	0.627	67.501	0.392	75.251	0.464
60.521	0.63	67.751	0.389	75.501	0.469
60.643	0.631	68.001	0.392	75.751	0.467
60.765	0.626	68.251	0.384	76.001	0.469
61	0.63	68.501	0.388	76.251	0.465
61.25	0.629	68.751	0.377	76.501	0.467
61.5	0.62	69.001	0.38	76.946	0.459
61.75	0.623	69.251	0.383	77.068	0.457
62	0.615	69.501	0.38	77.251	0.46
62.25	0.616	69.751	0.379	77.501	0.46
62.5	0.62	70.001	0.38	77.751	0.462
62.75	0.612	70.251	0.373	78.001	0.454
63	0.611	70.501	0.374	78.251	0.455
63.25	0.609	70.751	0.374	78.501	0.453
63.5	0.608	71.001	0.372	78.751	0.45
63.75	0.607	71.251	0.37	79.001	0.448
64	0.609	71.501	0.372	79.251	0.455
64.25	0.609	71.751	0.372	79.501	0.449
64.5	0.601	72.001	0.364	79.751	0.448
64.75	0.597	72.251	0.373	80.001	0.447
65	0.595	72.501	0.367	80.251	0.442
65.435	0.596	72.751	0.366	80.501	0.45
65.558	0.594	73.001	0.366	80.751	0.444
65.75	0.596	73.251	0.365	81.001	0.447
66	0.591	73.501	0.365	81.251	0.442
66.25	0.589	73.751	0.365	81.501	0.446
66.5	0.594	74.001	0.361	81.945	0.434
66.75	0.591	74.251	0.364	82.067	0.434
67	0.584	74.501	0.358	82.251	0.44
67.25	0.586	74.751	0.361	82.501	0.437
67.5	0.586	75.001	0.359	82.751	0.436
67.75	0.58	75.251	0.36	83.001	0.439
68	0.576	75.501	0.355	83.251	0.438
68.25	0.58	75.751	0.356	83.501	0.441
68.5	0.577	76.001	0.355	83.751	0.435
68.75	0.577	76.251	0.356	84.001	0.435
69	0.575	76.501	0.349	84.251	0.436
69.25	0.573	76.751	0.354	84.501	0.428
69.5	0.568	77.001	0.344	84.751	0.433
69.75	0.567	77.251	0.349	85.001	0.432
70	0.568	77.501	0.348	85.251	0.43
70.435	0.564	77.751	0.346	85.501	0.426
70.564	0.566	78.001	0.348	85.751	0.428
70.75	0.559	78.251	0.34	86.001	0.425

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
71	0.562	78.501	0.341	86.251	0.425
71.25	0.559	78.751	0.339	86.501	0.425
71.5	0.559	79.001	0.342	86.945	0.422
71.75	0.561	79.251	0.34	87.067	0.427
72	0.558	79.501	0.339	87.251	0.421
72.25	0.554	79.751	0.338	87.501	0.4
72.5	0.555	80.001	0.341	87.751	0.422
72.75	0.553	80.251	0.336	88.001	0.421
73	0.555	80.501	0.336	88.251	0.418
73.25	0.552	80.751	0.341	88.501	0.413
73.5	0.542	81.001	0.334	88.751	0.418
73.75	0.543	81.251	0.333	89.001	0.418
74	0.543	81.501	0.334	89.251	0.414
74.25	0.537	81.751	0.336	89.501	0.415
74.5	0.549	82.001	0.332	89.751	0.415
74.75	0.539	82.251	0.33	90.001	0.418
75	0.538	82.501	0.331	90.251	0.41
75.435	0.54	82.751	0.322	90.501	0.412
75.558	0.535	83.001	0.33	90.751	0.412
75.75	0.537	83.251	0.332	91.001	0.409
76	0.534	83.501	0.33	91.251	0.409
76.25	0.536	83.751	0.329	91.501	0.409
76.5	0.537	84.001	0.327	91.945	0.404
76.75	0.535	84.251	0.322	92.068	0.403
77	0.527	84.501	0.321	92.251	0.401
77.25	0.522	84.751	0.318	92.501	0.405
77.5	0.527	85.001	0.326	92.751	0.407
77.75	0.526	85.251	0.319	93.001	0.403
78	0.526	85.501	0.32	93.251	0.405
78.25	0.524	85.751	0.321	93.501	0.401
78.5	0.517	86.001	0.321	93.751	0.398
78.75	0.523	86.251	0.319	94.001	0.394
79	0.524	86.501	0.322	94.251	0.4
79.25	0.512	86.751	0.313	94.501	0.394
79.5	0.511	87.001	0.314	94.751	0.397
79.75	0.52	87.251	0.313	95.001	0.393
80	0.511	87.501	0.309	95.251	0.395
80.435	0.509	87.751	0.31	95.501	0.392
80.558	0.514	88.001	0.307	95.751	0.393
80.75	0.51	88.251	0.309	96.001	0.392
81	0.508	88.501	0.31	96.251	0.39
81.25	0.505	88.751	0.305	96.501	0.39
81.5	0.502	89.001	0.307	96.945	0.389
81.75	0.505	89.251	0.304	97.067	0.384
82	0.511	89.501	0.296	97.251	0.389
82.25	0.505	89.751	0.306	97.501	0.38
82.5	0.506	90.001	0.301	97.751	0.385
82.75	0.496	90.251	0.301	98.001	0.376
83	0.5	90.501	0.299	98.251	0.378
83.25	0.497	90.751	0.294	98.501	0.381
83.5	0.494	91.001	0.3	98.751	0.38
83.75	0.492	91.251	0.296	99.001	0.379
84	0.491	91.501	0.294	99.251	0.377
84.25	0.487	91.751	0.296	99.501	0.381
84.5	0.49	92.001	0.288	99.751	0.373
84.75	0.484	92.251	0.297	100.001	0.384
85	0.485	92.501	0.287	100.251	0.375
85.435	0.479	92.751	0.297	100.501	0.375
85.558	0.484	93.001	0.29	100.751	0.37
85.75	0.485	93.251	0.287	101.001	0.375
86	0.486	93.501	0.288	101.251	0.373
86.25	0.478	93.751	0.291	101.501	0.371
86.5	0.484	94.001	0.283	101.945	0.37
86.75	0.483	94.251	0.282	102.067	0.368
87	0.479	94.501	0.287	102.251	0.367
87.25	0.482	94.751	0.29	102.501	0.363
87.5	0.476	95.001	0.285	102.751	0.368
87.75	0.478	95.251	0.279	103.001	0.368
88	0.477	95.501	0.285	103.251	0.364
88.25	0.471	95.751	0.287	103.501	0.362
88.5	0.476	96.001	0.28	103.751	0.363

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
88.75	0.468	96.251	0.279	104.001	0.371
89	0.469	96.501	0.281	104.251	0.363
89.25	0.47	96.751	0.277	104.501	0.37
89.5	0.471	97.001	0.279	104.751	0.367
89.75	0.466	97.251	0.283	105.001	0.36
90	0.465	97.501	0.279	105.251	0.362
90.435	0.464	97.751	0.283	105.501	0.362
90.558	0.46	98.001	0.275	105.751	0.36
90.75	0.453	98.251	0.276	106.001	0.362
91	0.459	98.501	0.274	106.251	0.351
91.25	0.461	98.751	0.275	106.501	0.362
91.5	0.454	99.001	0.271	106.945	0.354
91.75	0.459	99.251	0.272	107.067	0.359
92	0.455	99.501	0.27	107.251	0.359
92.25	0.458	99.751	0.277	107.501	0.358
92.5	0.452	100.001	0.266	107.751	0.353
92.75	0.459	100.251	0.27	108.001	0.355
93	0.454	100.501	0.27	108.251	0.353
93.25	0.458	100.751	0.267	108.501	0.345
93.5	0.454	101.001	0.269	108.751	0.348
93.75	0.447	101.251	0.268	109.001	0.35
94	0.449	101.501	0.265	109.251	0.354
94.25	0.446	101.751	0.263	109.501	0.35
94.5	0.445	102.001	0.268	109.751	0.35
94.75	0.452	102.251	0.264	110.001	0.342
95	0.445	102.501	0.268	110.251	0.346
95.435	0.446	102.751	0.264	110.501	0.349
95.558	0.452	103.001	0.265	110.751	0.338
95.75	0.449	103.251	0.268	111.001	0.342
96	0.448	103.501	0.263	111.251	0.341
96.25	0.442	103.751	0.265	111.501	0.336
96.5	0.443	104.001	0.258	111.945	0.34
96.75	0.437	104.251	0.256	112.068	0.343
97	0.441	104.501	0.263	112.251	0.333
97.25	0.434	104.751	0.252	112.501	0.339
97.5	0.441	105.001	0.255	112.751	0.342
97.75	0.436	105.251	0.251	113.001	0.333
98	0.446	105.501	0.26	113.251	0.334
98.25	0.436	105.751	0.255	113.501	0.336
98.5	0.438	106.001	0.255	113.751	0.327
98.75	0.433	106.251	0.256	114.001	0.329
99	0.434	106.501	0.253	114.251	0.326
99.25	0.426	106.751	0.254	114.501	0.328
99.5	0.433	107.001	0.252	114.751	0.331
99.75	0.43	107.251	0.255	115.001	0.327
100	0.431	107.501	0.253	115.251	0.33
100.435	0.43	107.751	0.256	115.501	0.325
100.558	0.432	108.001	0.251	115.751	0.325
100.75	0.429	108.251	0.245	116.001	0.324
101	0.429	108.501	0.244	116.251	0.326
101.25	0.421	108.751	0.245	116.501	0.331
101.5	0.423	109.001	0.243	116.945	0.327
101.75	0.421	109.251	0.242	117.067	0.324
102	0.414	109.501	0.245	117.251	0.326
102.25	0.421	109.751	0.25	117.501	0.33
102.5	0.414	110.001	0.248	117.751	0.323
102.75	0.417	110.251	0.238	118.001	0.321
103	0.411	110.501	0.239	118.251	0.329
103.25	0.412	110.751	0.236	118.501	0.323
103.5	0.413	111.001	0.247	118.751	0.322
103.75	0.406	111.251	0.237	119.001	0.319
104	0.412	111.501	0.237	119.251	0.32
104.25	0.41	111.751	0.241	119.501	0.32
104.5	0.411	112.001	0.238	119.751	0.315
104.75	0.403	112.251	0.239	120.001	0.318
105	0.401	112.501	0.239	120.251	0.313
105.435	0.411	112.751	0.241	120.501	0.316
105.558	0.406	113.001	0.233	120.751	0.318
105.75	0.41	113.251	0.235	121.001	0.312
106	0.401	113.501	0.232	121.251	0.31
106.25	0.409	113.751	0.241	121.501	0.315

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
106.5	0.407	114.001	0.23	121.945	0.307
106.75	0.402	114.251	0.227	122.068	0.31
107	0.405	114.501	0.232	122.251	0.305
107.25	0.4	114.751	0.234	122.501	0.308
107.5	0.398	115.001	0.232	122.751	0.303
107.75	0.397	115.251	0.235	123.001	0.309
108	0.39	115.501	0.227	123.251	0.309
108.25	0.402	115.751	0.225	123.501	0.307
108.5	0.398	116.001	0.229	123.751	0.302
108.75	0.399	116.251	0.216	124.001	0.305
109	0.397	116.501	0.219	124.251	0.302
109.25	0.389	116.751	0.227	124.501	0.303
109.5	0.396	117.001	0.224	124.751	0.304
109.75	0.386	117.251	0.223	125.001	0.297
110	0.388	117.501	0.223	125.251	0.3
110.436	0.393	117.751	0.221	125.501	0.299
110.559	0.387	118.001	0.219	125.751	0.303
110.75	0.392	118.436	0.218	126.001	0.298
111	0.387	118.558	0.217	126.251	0.298
111.25	0.389	118.751	0.213	126.501	0.291
111.5	0.388	119.001	0.218	126.945	0.296
111.75	0.384	119.251	0.222	127.068	0.291
112	0.388	119.501	0.214	127.251	0.287
112.25	0.381	119.751	0.217	127.501	0.293
112.5	0.378	120.001	0.21	127.751	0.293
112.75	0.385	120.251	0.215	128.001	0.293
113	0.383	120.501	0.214	128.251	0.291
113.25	0.378	120.751	0.212	128.501	0.283
113.5	0.379	121.001	0.213	128.751	0.292
113.75	0.376	121.251	0.211	129.001	0.287
114	0.374	121.501	0.212	129.251	0.287
114.25	0.373	121.751	0.214	129.501	0.291
114.5	0.373	122.001	0.211	129.751	0.285
114.75	0.376	122.251	0.209	130.001	0.284
115	0.378	122.501	0.21	130.251	0.286
115.435	0.374	122.751	0.211	130.501	0.28
115.558	0.369	123.001	0.209	130.751	0.287
115.75	0.374	123.445	0.205	131.001	0.283
116	0.366	123.569	0.202	131.251	0.286
116.25	0.361	123.751	0.205	131.501	0.278
116.5	0.363	124.001	0.204	131.945	0.282
116.75	0.362	124.251	0.207	132.069	0.282
117	0.363	124.501	0.207	132.251	0.278
117.25	0.362	124.751	0.202	132.501	0.279
117.5	0.366	125.001	0.201	132.751	0.28
117.75	0.362	125.251	0.205	133.001	0.276
118	0.363	125.501	0.203	133.251	0.274
118.25	0.359	125.751	0.2	133.501	0.278
118.5	0.358	126.001	0.198	133.751	0.277
118.75	0.356	126.251	0.202	134.001	0.272
119	0.356	126.501	0.194	134.251	0.279
119.25	0.35	126.751	0.196	134.501	0.278
119.5	0.355	127.001	0.197	134.751	0.274
119.75	0.354	127.251	0.191	135.001	0.282
120	0.357	127.501	0.196	135.251	0.274
120.435	0.353	127.751	0.197	135.501	0.278
120.558	0.352	128.001	0.194	135.751	0.272
120.75	0.352	128.445	0.199	136.001	0.27
121	0.353	128.57	0.191	136.251	0.27
121.25	0.352	128.751	0.191	136.501	0.269
121.5	0.348	129.001	0.19	136.945	0.267
121.75	0.344	129.251	0.191	137.069	0.272
122	0.34	129.501	0.197	137.251	0.265
122.25	0.345	129.751	0.191	137.501	0.267
122.5	0.341	130.001	0.186	137.751	0.265
122.75	0.347	130.251	0.188	138.001	0.267
123	0.336	130.501	0.194	138.251	0.264
123.25	0.34	130.751	0.19	138.501	0.262
123.5	0.341	131.001	0.186	138.751	0.262
123.75	0.338	131.251	0.187	139.001	0.263
124	0.336	131.501	0.186	139.251	0.259

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
124.25	0.344	131.751	0.183	139.501	0.261
124.5	0.337	132.001	0.183	139.751	0.263
124.75	0.334	132.251	0.188	140.001	0.264
125	0.341	132.501	0.173	140.251	0.26
125.435	0.338	132.751	0.182	140.501	0.265
125.559	0.338	133.001	0.179	140.751	0.263
125.75	0.336	133.445	0.18	141.001	0.255
126	0.338	133.569	0.178	141.251	0.251
126.25	0.333	133.751	0.176	141.501	0.255
126.5	0.33	134.001	0.181	141.945	0.255
126.75	0.332	134.251	0.173	142.069	0.254
127	0.329	134.501	0.177	142.251	0.259
127.25	0.333	134.751	0.177	142.501	0.261
127.5	0.337	135.001	0.177	142.751	0.256
127.75	0.329	135.251	0.174	143.001	0.257
128	0.32	135.501	0.172	143.251	0.25
128.25	0.323	135.751	0.179	143.501	0.257
128.5	0.33	136.001	0.176	143.751	0.248
128.75	0.322	136.251	0.176	144.001	0.251
129	0.321	136.501	0.176	144.251	0.25
129.25	0.323	136.751	0.176	144.501	0.248
129.5	0.32	137.001	0.173	144.751	0.25
129.75	0.32	137.251	0.173	145.001	0.244
130	0.323	137.501	0.178	145.251	0.253
130.435	0.323	137.751	0.173	145.501	0.253
130.557	0.322	138.001	0.169	145.751	0.241
130.75	0.316	138.445	0.163	146.001	0.249
131	0.322	138.569	0.169	146.251	0.243
131.25	0.321	138.751	0.165	146.501	0.251
131.5	0.315	139.001	0.167	146.947	0.245
131.75	0.315	139.251	0.163	147.069	0.244
132	0.315	139.501	0.165	147.251	0.244
132.25	0.312	139.751	0.17	147.501	0.242
132.5	0.317	140.001	0.163	147.751	0.243
132.75	0.31	140.251	0.166	148.001	0.242
133	0.311	140.501	0.167	148.251	0.237
133.25	0.311	140.751	0.164	148.501	0.237
133.5	0.316	141.001	0.156	148.751	0.242
133.75	0.315	141.251	0.162	149.001	0.239
134	0.31	141.501	0.16	149.251	0.237
134.25	0.306	141.751	0.163	149.501	0.236
134.5	0.308	142.001	0.157	149.751	0.236
134.75	0.307	142.251	0.159	150.001	0.24
135	0.311	142.501	0.16	150.251	0.233
135.435	0.31	142.751	0.162	150.501	0.234
135.558	0.306	143.001	0.157	150.751	0.233
135.75	0.31	143.445	0.149	151.001	0.234
136	0.308	143.568	0.159	151.251	0.236
136.25	0.305	143.751	0.153	151.501	0.239
136.5	0.307	144.001	0.155	151.946	0.232
136.75	0.307	144.251	0.157	152.069	0.228
137	0.306	144.501	0.153	152.251	0.224
137.25	0.301	144.751	0.158	152.501	0.23
137.5	0.299	145.001	0.15	152.751	0.229
137.75	0.301	145.251	0.153	153.001	0.234
138	0.299	145.501	0.152	153.251	0.23
138.25	0.305	145.751	0.152	153.501	0.227
138.5	0.305	146.001	0.153	153.751	0.227
138.75	0.302	146.251	0.151	154.001	0.222
139	0.302	146.501	0.151	154.251	0.23
139.25	0.301	146.751	0.151	154.501	0.224
139.5	0.298	147.001	0.147	154.751	0.221
139.75	0.299	147.251	0.153	155.001	0.223
140	0.299	147.501	0.149	155.251	0.224
140.435	0.302	147.751	0.152	155.501	0.22
140.558	0.292	148.001	0.148	155.751	0.224
140.75	0.297	148.446	0.149	156.001	0.22
141	0.295	148.568	0.154	156.251	0.224
141.25	0.296	148.751	0.148	156.501	0.222
141.5	0.293	149.001	0.147	156.946	0.223
141.75	0.291	149.251	0.148	157.069	0.216

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
142	0.291	149.501	0.146	157.251	0.222
142.25	0.289	149.751	0.144	157.501	0.218
142.5	0.286	150.001	0.143	157.751	0.22
142.75	0.29	150.251	0.15	158.001	0.222
143	0.288	150.501	0.146	158.251	0.219
143.25	0.288	150.751	0.141	158.501	0.22
143.5	0.285	151.001	0.138	158.751	0.215
143.75	0.289	151.251	0.142	159.001	0.215
144	0.287	151.501	0.139	159.251	0.217
144.25	0.292	151.751	0.139	159.501	0.217
144.5	0.286	152.001	0.139	159.751	0.219
144.75	0.281	152.251	0.14	160.001	0.216
145	0.286	152.501	0.136	160.251	0.217
145.435	0.287	152.751	0.137	160.501	0.211
145.558	0.286	153.001	0.138	160.751	0.217
145.75	0.282	153.446	0.133	161.001	0.212
146	0.286	153.568	0.134	161.251	0.215
146.25	0.281	153.751	0.131	161.501	0.211
146.5	0.282	154.001	0.137	161.945	0.211
146.75	0.28	154.251	0.133	162.069	0.214
147	0.282	154.501	0.132	162.251	0.206
147.25	0.279	154.751	0.127	162.501	0.211
147.5	0.279	155.001	0.135	162.751	0.211
147.75	0.285	155.251	0.132	163.001	0.204
148	0.277	155.501	0.136	163.251	0.211
148.25	0.28	155.751	0.133	163.501	0.209
148.5	0.275	156.001	0.128	163.751	0.209
148.75	0.276	156.251	0.136	164.001	0.211
149	0.276	156.501	0.133	164.251	0.208
149.25	0.267	156.751	0.126	164.501	0.205
149.5	0.275	157.001	0.126	164.751	0.209
149.75	0.271	157.251	0.12	165.001	0.202
150	0.269	157.501	0.121	165.251	0.204
150.435	0.276	157.751	0.124	165.501	0.2
150.558	0.271	158.001	0.128	165.751	0.202
150.75	0.275	158.445	0.12	166.001	0.198
151	0.272	158.568	0.122	166.251	0.204
151.25	0.272	158.751	0.124	166.501	0.198
151.5	0.268	159.001	0.126	166.945	0.207
151.75	0.274	159.251	0.118	167.068	0.2
152	0.276	159.501	0.123	167.251	0.201
152.25	0.274	159.751	0.12	167.501	0.199
152.5	0.27	160.001	0.115	167.751	0.2
152.75	0.264	160.251	0.125	168.001	0.2
153	0.273	160.501	0.123	168.251	0.203
153.25	0.267	160.751	0.123	168.501	0.197
153.5	0.272	161.001	0.114	168.751	0.199
153.75	0.27	161.251	0.118	169.001	0.196
154	0.27	161.501	0.125	169.251	0.203
154.25	0.27	161.751	0.118	169.501	0.202
154.5	0.266	162.001	0.125	169.751	0.195
154.75	0.267	162.251	0.115	170.001	0.192
155	0.265	162.501	0.116	170.251	0.196
155.435	0.269	162.751	0.121	170.501	0.196
155.557	0.269	163.001	0.12	170.751	0.198
155.75	0.265	163.445	0.116	171.001	0.193
156	0.27	163.568	0.111	171.251	0.186
156.25	0.266	163.751	0.115	171.501	0.193
156.5	0.265	164.001	0.112	171.945	0.193
156.75	0.265	164.251	0.113	172.068	0.193
157	0.263	164.501	0.108	172.251	0.191
157.25	0.264	164.751	0.11	172.501	0.195
157.5	0.265	165.001	0.111	172.751	0.187
157.75	0.261	165.251	0.114	173.001	0.193
158	0.259	165.501	0.116	173.251	0.189
158.25	0.262	165.751	0.114	173.501	0.191
158.5	0.265	166.001	0.117	173.751	0.187
158.75	0.255	166.251	0.116	174.001	0.18
159	0.259	166.501	0.117	174.251	0.192
159.25	0.256	166.751	0.112	174.501	0.184
159.5	0.254	167.001	0.118	174.751	0.183

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
159.75	0.256	167.251	0.111	175.001	0.179
160	0.258	167.501	0.112	175.251	0.18
160.435	0.261	167.751	0.113	175.501	0.183
160.557	0.262	168.001	0.109	175.751	0.183
160.75	0.262	168.445	0.11	176.001	0.181
161	0.261	168.568	0.104	176.251	0.178
161.25	0.257	168.751	0.109	176.501	0.177
161.5	0.262	169.001	0.107	176.945	0.175
161.75	0.262	169.251	0.115	177.068	0.184
162	0.257	169.501	0.111	177.251	0.18
162.25	0.255	169.751	0.103	177.501	0.178
162.5	0.26	170.001	0.11	177.751	0.179
162.75	0.252	170.251	0.109	178.001	0.179
163	0.254	170.501	0.108	178.251	0.182
163.25	0.25	170.751	0.108	178.501	0.182
163.5	0.25	171.001	0.1	178.751	0.175
163.75	0.256	171.251	0.107	179.001	0.181
164	0.251	171.501	0.107	179.251	0.173
164.25	0.256	171.751	0.108	179.501	0.178
164.5	0.251	172.001	0.107	179.751	0.178
164.75	0.247	172.251	0.107	180.001	0.174
165	0.258	172.501	0.108	180.251	0.179
165.435	0.258	172.751	0.111	180.501	0.172
165.557	0.254	173.001	0.109	180.751	0.175
165.75	0.255	173.445	0.105	181.001	0.176
166	0.253	173.568	0.104	181.251	0.176
166.25	0.222	173.751	0.103	181.501	0.179
166.5	0.249	174.001	0.104	181.945	0.178
166.75	0.255	174.251	0.102	182.068	0.181
167	0.253	174.501	0.105	182.251	0.176
167.25	0.25	174.751	0.103	182.501	0.171
167.5	0.252	175.001	0.104	182.751	0.171
167.75	0.246	175.251	0.106	183.001	0.176
168	0.25	175.501	0.1	183.251	0.171
168.25	0.246	175.751	0.101	183.501	0.172
168.5	0.244	176.001	0.094	183.751	0.175
168.75	0.247	176.251	0.1	184.001	0.174
169	0.241	176.501	0.102	184.251	0.177
169.25	0.241	176.751	0.095	184.501	0.17
169.5	0.241	177.001	0.106	184.751	0.167
169.75	0.248	177.251	0.1	185.001	0.169
170	0.247	177.501	0.099	185.251	0.165
170.435	0.248	177.751	0.103	185.501	0.168
170.558	0.244	178.001	0.101	185.751	0.171
170.75	0.246	178.445	0.099	186.001	0.169
171	0.239	178.568	0.105	186.251	0.164
171.25	0.237	178.751	0.096	186.501	0.168
171.5	0.235	179.001	0.098	186.945	0.163
171.75	0.239	179.251	0.1	187.068	0.162
172	0.242	179.501	0.092	187.251	0.166
172.25	0.241	179.751	0.097	187.501	0.166
172.5	0.235	180.001	0.099	187.751	0.163
172.75	0.24	180.251	0.101	188.001	0.16
173	0.231	180.501	0.094	188.251	0.16
173.25	0.237	180.751	0.094	188.501	0.17
173.5	0.235	181.001	0.103	188.751	0.166
173.75	0.241	181.251	0.102	189.001	0.165
174	0.237	181.501	0.096	189.251	0.165
174.25	0.234	181.751	0.098	189.501	0.166
174.5	0.239	182.001	0.1	189.751	0.164
174.75	0.241	182.251	0.095	190.001	0.165
175	0.229	182.501	0.1	190.251	0.166
175.435	0.235	182.751	0.093	190.501	0.157
175.557	0.24	183.001	0.098	190.751	0.164
175.75	0.232	183.445	0.099	191.001	0.161
176	0.231	183.568	0.097	191.251	0.161
176.25	0.233	183.751	0.096	191.501	0.163
176.5	0.232	184.001	0.093	191.945	0.159
176.75	0.232	184.251	0.094	192.068	0.158
177	0.22	184.501	0.093	192.251	0.16
177.25	0.232	184.751	0.088	192.501	0.158

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
177.5	0.231	185.001	0.1	192.751	0.158
177.75	0.23	185.251	0.093	193.001	0.157
178	0.228	185.501	0.094	193.251	0.168
178.25	0.227	185.751	0.093	193.501	0.164
178.5	0.229	186.001	0.094	193.751	0.162
178.75	0.228	186.251	0.092	194.001	0.159
179	0.234	186.501	0.092	194.251	0.161
179.25	0.231	186.751	0.093	194.501	0.169
179.5	0.233	187.001	0.09	194.751	0.159
179.75	0.232	187.251	0.093	195.001	0.163
180	0.229	187.501	0.096	195.251	0.159
180.436	0.233	187.751	0.094	195.501	0.159
180.559	0.233	188.001	0.089	195.751	0.156
180.75	0.226	188.444	0.088	196.001	0.163
181	0.224	188.567	0.098	196.251	0.153
181.25	0.226	188.751	0.098	196.501	0.152
181.5	0.231	189.001	0.096	196.945	0.153
181.75	0.225	189.251	0.09	197.068	0.152
182	0.23	189.501	0.088	197.251	0.153
182.25	0.227	189.751	0.088	197.501	0.154
182.5	0.227	190.001	0.095	197.751	0.154
182.75	0.226	190.251	0.093	198.001	0.152
183	0.225	190.501	0.094	198.251	0.15
183.25	0.224	190.751	0.089	198.501	0.152
183.5	0.22	191.001	0.088	198.751	0.159
183.75	0.221	191.251	0.095	199.001	0.157
184	0.223	191.501	0.092	199.251	0.151
184.25	0.224	191.751	0.097	199.501	0.15
184.5	0.22	192.001	0.093	199.751	0.15
184.75	0.22	192.251	0.095	200.001	0.15
185	0.218	192.501	0.096	200.251	0.149
185.435	0.226	192.751	0.095	200.501	0.144
185.557	0.222	193.001	0.095	200.751	0.153
185.75	0.223	193.444	0.094	201.001	0.148
186	0.22	193.567	0.087	201.251	0.149
186.25	0.219	193.751	0.095	201.501	0.151
186.5	0.218	194.001	0.095	201.946	0.148
186.75	0.22	194.251	0.096	202.069	0.146
187	0.22	194.501	0.09	202.251	0.145
187.25	0.222	194.751	0.092	202.501	0.15
187.5	0.217	195.001	0.089	202.751	0.152
187.75	0.221	195.251	0.094	203.001	0.144
188	0.216	195.501	0.09	203.251	0.151
188.25	0.217	195.751	0.097	203.501	0.148
188.5	0.212	196.001	0.091	203.751	0.148
188.75	0.213	196.251	0.092	204.001	0.146
189	0.219	196.501	0.093	204.251	0.147
189.25	0.222	196.751	0.099	204.501	0.148
189.5	0.215	197.001	0.095	204.751	0.141
189.75	0.213	197.251	0.095	205.001	0.152
190	0.213	197.501	0.091	205.251	0.146
190.435	0.214	197.751	0.09	205.501	0.151
190.557	0.219	198.001	0.094	205.751	0.148
190.75	0.216	198.444	0.091	206.001	0.144
191	0.221	198.568	0.092	206.251	0.144
191.25	0.214	198.751	0.092	206.501	0.148
191.5	0.214	199.001	0.085	206.945	0.141
191.75	0.213	199.251	0.092	207.067	0.14
192	0.219	199.501	0.092	207.251	0.142
192.25	0.239	199.751	0.089	207.501	0.146
192.5	0.196	200.001	0.089	207.751	0.139
192.75	0.222	200.251	0.094	208.001	0.145
193	0.222	200.501	0.089	208.251	0.139
193.25	0.223	200.751	0.089	208.501	0.142
193.5	0.22	201.001	0.084	208.751	0.147
193.75	0.213	201.251	0.091	209.001	0.143
194	0.22	201.501	0.088	209.251	0.143
194.25	0.215	201.751	0.084	209.501	0.14
194.5	0.22	202.001	0.092	209.751	0.146
194.75	0.214	202.251	0.088	210.001	0.141
195	0.216	202.501	0.093	210.251	0.138

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
195.435	0.213	202.751	0.091	210.501	0.148
195.558	0.211	203.001	0.085	210.751	0.136
195.75	0.212	203.444	0.085	211.001	0.141
196	0.217	203.567	0.091	211.251	0.139
196.25	0.209	203.751	0.085	211.501	0.142
196.5	0.211	204.001	0.087	211.945	0.141
196.75	0.204	204.251	0.093	212.067	0.143
197	0.21	204.501	0.088	212.251	0.136
197.25	0.215	204.751	0.089	212.501	0.136
197.5	0.206	205.001	0.087	212.751	0.145
197.75	0.215	205.251	0.083	213.001	0.139
198	0.213	205.501	0.09	213.251	0.141
198.25	0.205	205.751	0.083	213.501	0.139
198.5	0.206	206.001	0.087	213.751	0.137
198.75	0.203	206.251	0.089	214.001	0.139
199	0.208	206.501	0.09	214.251	0.144
199.25	0.204	206.751	0.084	214.501	0.133
199.5	0.211	207.001	0.086	214.751	0.141
199.75	0.206	207.251	0.088	215.001	0.139
200	0.211	207.501	0.085	215.251	0.141
200.435	0.205	207.751	0.082	215.501	0.14
200.557	0.207	208.001	0.083	215.751	0.14
200.75	0.209	208.444	0.085	216.001	0.142
201	0.205	208.567	0.087	216.251	0.136
201.25	0.207	208.751	0.083	216.501	0.138
201.5	0.205	209.001	0.082	216.945	0.134
201.75	0.202	209.251	0.085	217.068	0.142
202	0.209	209.501	0.084	217.251	0.138
202.25	0.207	209.751	0.083	217.501	0.141
202.5	0.206	210.001	0.078	217.751	0.138
202.75	0.207	210.251	0.086	218.001	0.14
203	0.201	210.501	0.083	218.251	0.139
203.25	0.205	210.751	0.082	218.501	0.131
203.5	0.2	211.001	0.085	218.751	0.138
203.75	0.206	211.251	0.082	219.001	0.137
204	0.207	211.501	0.082	219.251	0.139
204.25	0.203	211.751	0.083	219.501	0.132
204.5	0.202	212.001	0.087	219.751	0.137
204.75	0.206	212.251	0.079	220.001	0.139
205	0.201	212.501	0.082	220.251	0.137
205.435	0.203	212.751	0.082	220.501	0.14
205.557	0.203	213.001	0.086	220.751	0.14
205.75	0.213	213.444	0.085	221.001	0.131
206	0.2	213.566	0.079	221.251	0.129
206.25	0.207	213.751	0.082	221.501	0.144
206.5	0.207	214.001	0.081	221.945	0.137
206.75	0.205	214.251	0.083	222.067	0.128
207	0.202	214.501	0.084	222.251	0.132
207.25	0.211	214.751	0.083	222.501	0.133
207.5	0.2	215.001	0.087	222.751	0.135
207.75	0.204	215.251	0.084	223.001	0.131
208	0.197	215.501	0.08	223.251	0.137
208.25	0.203	215.751	0.081	223.501	0.13
208.5	0.197	216.001	0.081	223.751	0.135
208.75	0.204	216.251	0.08	224.001	0.136
209	0.199	216.501	0.08	224.251	0.132
209.25	0.196	216.751	0.079	224.501	0.133
209.5	0.201	217.001	0.083	224.751	0.136
209.75	0.203	217.251	0.085	225.001	0.124
210	0.203	217.501	0.077	225.251	0.131
210.435	0.192	217.751	0.076	225.501	0.136
210.557	0.193	218.001	0.082	225.751	0.134
210.75	0.195	218.444	0.08	226.001	0.135
211	0.204	218.566	0.075	226.251	0.128
211.25	0.198	218.751	0.086	226.501	0.13
211.5	0.201	219.001	0.077	226.944	0.129
211.75	0.194	219.251	0.073	227.066	0.131
212	0.196	219.501	0.083	227.251	0.136
212.25	0.193	219.751	0.075	227.501	0.131
212.5	0.191	220.001	0.074	227.751	0.132
212.75	0.197	220.251	0.078	228.001	0.123

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
213	0.195	220.501	0.082	228.251	0.129
213.25	0.197	220.751	0.076	228.501	0.13
213.5	0.198	221.001	0.08	228.751	0.126
213.75	0.193	221.251	0.077	229.001	0.126
214	0.195	221.501	0.075	229.251	0.129
214.25	0.193	221.751	0.078	229.501	0.127
214.5	0.194	222.001	0.078	229.751	0.127
214.75	0.202	222.251	0.078	230.001	0.126
215	0.196	222.501	0.075	230.251	0.127
215.435	0.197	222.751	0.079	230.501	0.124
215.557	0.198	223.001	0.074	230.751	0.121
215.75	0.186	223.443	0.072	231.001	0.126
216	0.197	223.566	0.075	231.251	0.126
216.25	0.192	223.751	0.076	231.501	0.127
216.5	0.186	224.001	0.079	231.944	0.127
216.75	0.185	224.251	0.08	232.067	0.122
217	0.19	224.501	0.077	232.251	0.122
217.25	0.182	224.751	0.075	232.501	0.124
217.5	0.193	225.001	0.076	232.751	0.127
217.75	0.185	225.251	0.072	233.001	0.121
218	0.187	225.501	0.076	233.251	0.116
218.25	0.192	225.751	0.076	233.501	0.122
218.5	0.188	226.001	0.075	233.751	0.124
218.75	0.193	226.251	0.072	234.001	0.124
219	0.186	226.501	0.073	234.251	0.129
219.25	0.188	226.751	0.074	234.501	0.12
219.5	0.189	227.001	0.072	234.751	0.122
219.75	0.189	227.251	0.077	235.001	0.123
220	0.191	227.501	0.075	235.251	0.125
220.435	0.183	227.751	0.076	235.501	0.119
220.557	0.195	228.001	0.071	235.751	0.123
220.75	0.187	228.443	0.066	236.001	0.121
221	0.188	228.566	0.072	236.251	0.12
221.25	0.183	228.751	0.076	236.501	0.119
221.5	0.191	229.001	0.076	236.944	0.119
221.75	0.185	229.251	0.072	237.066	0.116
222	0.193	229.501	0.077	237.251	0.117
222.25	0.193	229.751	0.069	237.501	0.12
222.5	0.187	230.001	0.072	237.751	0.119
222.75	0.189	230.251	0.07	238.001	0.122
223	0.189	230.501	0.072	238.251	0.12
223.25	0.191	230.751	0.074	238.501	0.121
223.5	0.199	231.001	0.076	238.751	0.122
223.75	0.196	231.251	0.071	239.001	0.118
224	0.194	231.501	0.07	239.251	0.123
224.25	0.189	231.751	0.071	239.501	0.116
224.5	0.189	232.001	0.071	239.751	0.12
224.75	0.185	232.251	0.077	240.001	0.119
225	0.187	232.501	0.075	240.251	0.121
225.435	0.19	232.751	0.072	240.501	0.119
225.557	0.189	233.001	0.071	240.751	0.119
225.75	0.184	233.442	0.07	241.001	0.12
226	0.191	233.565	0.071	241.251	0.111
226.25	0.191	233.751	0.076	241.501	0.116
226.5	0.188	234.001	0.077	241.943	0.119
226.75	0.188	234.251	0.07	242.065	0.119
227	0.183	234.501	0.074	242.251	0.117
227.25	0.185	234.751	0.071	242.501	0.12
227.5	0.181	235.001	0.072	242.751	0.12
227.75	0.185	235.251	0.069	243.001	0.12
228	0.187	235.501	0.071	243.251	0.117
228.25	0.182	235.751	0.068	243.501	0.123
228.5	0.186	236.001	0.065	243.751	0.122
228.75	0.187	236.251	0.068	244.001	0.111
229	0.182	236.501	0.063	244.251	0.116
229.25	0.18	236.751	0.068	244.501	0.121
229.5	0.177	237.001	0.072	244.751	0.12
229.75	0.178	237.251	0.066	245.001	0.118
230	0.178	237.501	0.068	245.251	0.12
230.435	0.18	237.751	0.072	245.501	0.116
230.557	0.18	238.001	0.062	245.751	0.112

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
230.75	0.185	238.443	0.066	246.001	0.119
231	0.182	238.566	0.062	246.251	0.112
231.25	0.178	238.751	0.067	246.501	0.118
231.5	0.184	239.001	0.065	246.94	0.118
231.75	0.182	239.251	0.069	247.062	0.115
232	0.175	239.501	0.063	247.251	0.12
232.25	0.182	239.751	0.07	247.501	0.117
232.5	0.182	240.001	0.062	247.751	0.12
232.75	0.183	240.251	0.057	248.001	0.118
233	0.177	240.501	0.069	248.251	0.117
233.25	0.177	240.751	0.066	248.501	0.118
233.5	0.181	241.001	0.066	248.751	0.115
233.75	0.18	241.251	0.067	249.001	0.113
234	0.176	241.501	0.067	249.251	0.114
234.25	0.176	241.751	0.073	249.501	0.114
234.5	0.183	242.001	0.073	249.751	0.119
234.75	0.179	242.251	0.068	250.001	0.115
235	0.182	242.501	0.069	250.251	0.114
235.436	0.175	242.751	0.07	250.501	0.117
235.559	0.177	243.001	0.067	250.751	0.114
235.75	0.179	243.442	0.063	251.001	0.116
236	0.178	243.564	0.072	251.251	0.113
236.25	0.185	243.751	0.07	251.501	0.116
236.5	0.182	244.001	0.069	251.939	0.107
236.75	0.181	244.251	0.067	252.062	0.116
237	0.175	244.501	0.067	252.251	0.111
237.25	0.178	244.751	0.07	252.501	0.12
237.5	0.175	245.001	0.066	252.751	0.107
237.75	0.183	245.251	0.07	253.001	0.116
238	0.176	245.501	0.068	253.251	0.111
238.25	0.177	245.751	0.069	253.501	0.11
238.5	0.174	246.001	0.066	253.751	0.112
238.75	0.176	246.251	0.068	254.001	0.111
239	0.175	246.501	0.068	254.251	0.107
239.25	0.181	246.751	0.067	254.501	0.106
239.5	0.175	247.001	0.062	254.751	0.113
239.75	0.173	247.251	0.065	255.001	0.111
240	0.183	247.501	0.063	255.251	0.107
240.435	0.176	247.751	0.072	255.501	0.11
240.558	0.178	248.001	0.064	255.751	0.109
240.75	0.179	248.442	0.07	256.001	0.107
241	0.18	248.565	0.063	256.251	0.106
241.25	0.172	248.751	0.07	256.501	0.108
241.5	0.175	249.001	0.057	256.939	0.111
241.75	0.175	249.251	0.064	257.062	0.11
242	0.174	249.501	0.068	257.251	0.11
242.25	0.174	249.751	0.063	257.501	0.107
242.5	0.178	250.001	0.066	257.751	0.103
242.75	0.179	250.251	0.067	258.001	0.108
243	0.176	250.501	0.062	258.251	0.107
243.25	0.174	250.751	0.063	258.501	0.107
243.5	0.172	251.001	0.066	258.751	0.111
243.75	0.175	251.251	0.064	259.001	0.114
244	0.17	251.501	0.065	259.251	0.109
244.25	0.175	251.751	0.065	259.501	0.114
244.5	0.169	252.001	0.063	259.751	0.109
244.75	0.168	252.251	0.066	260.001	0.114
245	0.168	252.501	0.062	260.251	0.107
245.435	0.173	252.751	0.058	260.501	0.112
245.558	0.178	253.001	0.064	260.751	0.111
245.75		253.441	0.066	261.001	0.112
246		253.565	0.065	261.251	0.111
246.25		253.751	0.061	261.501	0.107
246.5		254.001	0.068	261.939	0.107
246.75		254.251	0.067	262.062	0.108
247		254.501	0.064	262.251	0.109
247.25		254.751	0.066	262.501	0.105
247.5		255.001	0.063	262.751	0.112
247.75		255.251	0.065	263.001	0.111
248		255.501	0.068	263.251	0.111
248.25		255.751	0.068	263.501	0.107

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
248.5		256.001	0.066	263.751	0.108
248.75		256.251	0.063	264.001	0.108
249		256.501	0.065	264.251	0.1
249.25		256.751	0.067	264.501	0.108
249.5		257.001	0.065	264.751	0.105
249.75		257.251	0.066	265.001	0.104
250		257.501	0.064	265.251	0.101
250.435		257.751	0.059	265.501	0.105
250.559		258.001	0.064	265.751	0.1
250.75		258.441	0.063	266.001	0.106
251		258.563	0.063	266.251	0.105
251.25		258.751	0.064	266.501	0.107
251.5		259.001	0.067	266.939	0.108
251.75		259.251	0.069	267.062	0.106
252		259.501	0.058	267.251	0.106
252.25		259.751	0.063	267.501	0.107
252.5		260.001	0.062	267.751	0.105
252.75		260.251	0.056	268.001	0.107
253		260.501	0.062	268.251	0.104
253.25		260.751	0.063	268.501	0.105
253.5		261.001	0.063	268.751	0.106
253.75		261.251	0.062	269.001	0.1
254		261.501	0.064	269.251	0.105
254.25		261.751	0.063	269.501	0.107
254.5		262.001	0.062	269.751	0.1
254.75		262.251	0.061	270.001	0.103
255		262.501	0.064	270.251	0.106
255.435		262.751	0.061	270.501	0.105
255.558		263.001	0.062	270.751	0.104
255.75		263.44	0.058	271.001	0.109
256		263.563	0.055	271.251	0.102
256.25		263.751	0.061	271.501	0.103
256.5		264.001	0.062	271.939	0.104
256.75		264.251	0.062	272.062	0.101
257		264.501	0.058	272.251	0.108
257.25		264.751	0.057	272.501	0.104
257.5		265.001	0.052	272.751	0.109
257.75		265.251	0.062	273.001	0.1
258		265.501	0.061	273.251	0.1
258.25		265.751	0.062	273.501	0.107
258.5		266.001	0.056	273.751	0.104
258.75		266.251	0.06	274.001	0.104
259		266.501	0.063	274.251	0.105
259.25		266.751	0.063	274.501	0.106
259.5		267.001	0.057	274.751	0.104
259.75		267.251	0.057	275.001	0.101
260		267.501	0.06	275.251	0.1
260.435		267.751	0.061	275.501	0.108
260.558		268.001	0.056	275.751	0.106
260.75		268.439	0.057	276.001	0.097
261		268.562	0.057	276.251	0.1
261.25		268.751	0.062	276.501	0.098
261.5		269.001	0.058	276.938	0.104
261.75		269.251	0.065	277.06	0.098
262		269.501	0.06	277.251	0.102
262.25		269.751	0.053	277.501	0.105
262.5		270.001	0.063	277.751	0.099
262.75		270.251	0.058	278.001	0.107
263		270.501	0.051	278.251	0.1
263.25		270.751	0.057	278.501	0.104
263.5		271.001	0.058	278.751	0.106
263.75		271.251	0.062	279.001	0.096
264		271.501	0.055	279.251	0.099
264.25		271.751	0.059	279.501	0.104
264.5		272.001	0.056	279.751	0.103
264.75		272.251	0.06	280.001	0.103
265		272.501	0.056	280.251	0.098
265.435		272.751	0.062	280.501	0.105
265.557		273.001	0.058	280.751	0.103
265.75		273.439	0.058	281.001	0.096
266		273.562	0.054	281.251	0.098

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
266.25		273.751	0.05	281.501	0.106
266.5		274.001	0.057	281.938	0.1
266.75		274.251	0.057	282.06	0.099
267		274.501	0.058	282.251	0.104
267.25		274.751	0.059	282.501	0.101
267.5		275.001	0.059	282.751	0.104
267.75		275.251	0.059	283.001	0.097
268		275.501	0.059	283.251	0.101
268.25		275.751	0.053	283.501	0.1
268.5		276.001	0.056	283.751	0.102
268.75		276.251	0.056	284.001	0.104
269		276.501	0.058	284.251	0.099
269.25		276.751	0.061	284.501	0.098
269.5		277.001	0.059	284.751	0.102
269.75		277.251	0.058	285.001	0.102
270		277.501	0.057	285.251	0.096
270.435		277.751	0.054	285.501	0.102
270.558		278.001	0.059	285.751	0.104
270.75		278.439	0.062	286.001	0.1
271		278.562	0.056	286.251	0.1
271.25		278.751	0.059	286.501	0.107
271.5		279.001	0.06	286.938	0.101
271.75		279.251	0.057	287.061	0.099
272		279.501	0.056	287.251	0.098
272.252		279.751	0.054	287.501	0.101
272.5		280.001	0.054	287.751	0.1
272.75		280.251	0.057	288.001	0.09
273		280.501	0.05	288.251	0.101
273.25		280.751	0.054	288.501	0.102
273.5		281.001	0.054	288.751	0.101
273.75		281.251	0.055	289.001	0.097
274		281.501	0.052	289.251	0.096
274.25		281.751	0.058	289.501	0.104
274.5		282.001	0.059	289.751	0.098
274.75		282.251	0.059	290.001	0.095
275		282.501	0.057	290.251	0.1
275.435		282.751	0.053	290.501	0.097
275.558		283.001	0.055	290.751	0.1
275.75		283.439	0.053	291.001	0.099
276		283.562	0.05	291.251	0.094
276.25		283.751	0.053	291.501	0.099
276.5		284.001	0.055	291.937	0.095
276.75		284.251	0.049	292.06	0.095
277		284.501	0.053	292.251	0.097
277.25		284.751	0.054	292.501	0.096
277.5		285.001	0.055	292.751	0.098
277.75		285.251	0.056	293.001	0.093
278		285.501	0.057	293.251	0.095
278.25		285.751	0.053	293.501	0.098
278.5		286.001	0.053	293.751	0.098
278.75		286.251	0.059	294.001	0.098
279		286.501	0.055	294.251	0.096
279.25		286.751	0.051	294.501	0.096
279.5		287.001	0.056	294.751	0.095
279.75		287.251	0.047	295.001	0.094
280		287.501	0.058	295.251	0.101
280.435		287.751	0.06	295.501	0.098
280.558		288.001	0.055	295.751	0.093
280.75		288.439	0.053	296.001	0.097
281		288.562	0.055	296.251	0.094
281.25		288.751	0.047	296.501	0.099
281.5		289.001	0.053	296.937	0.091
281.75		289.251	0.05	297.06	0.097
282		289.501	0.046	297.251	0.101
282.25		289.751	0.062	297.501	0.094
282.5		290.001	0.055	297.751	0.098
282.75		290.251	0.052	298.001	0.094
283		290.501	0.053	298.251	0.095
283.25		290.751	0.058	298.501	0.102
283.5		291.001	0.051	298.751	0.099
283.75		291.251	0.053	299.001	0.091

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
284		291.501	0.055	299.251	0.095
284.25		291.751	0.053	299.501	0.094
284.5		292.001	0.055	299.751	0.096
284.75		292.251	0.053	300.001	0.094
285		292.501	0.054	300.251	0.094
285.435		292.751	0.057	300.501	0.089
285.558		293.001	0.056	300.751	0.095
285.75		293.439	0.053	301.001	0.1
286		293.561	0.053	301.251	0.09
286.25		293.751	0.054	301.501	0.097
286.5		294.001	0.057	301.937	0.091
286.75		294.251	0.043	302.06	0.099
287		294.501	0.051	302.251	0.096
287.25		294.751	0.054	302.501	0.097
287.5		295.001	0.048	302.751	0.096
287.75		295.252	0.053	303.001	0.096
288		295.501	0.052	303.251	0.093
288.25		295.751	0.054	303.501	0.096
288.5		296.001	0.051	303.751	0.097
288.75		296.251	0.054	304.001	0.092
289		296.501	0.048	304.251	0.098
289.25		296.751	0.057	304.501	0.094
289.5		297.001	0.053	304.751	0.096
289.75		297.251	0.052	305.001	0.098
290		297.501	0.05	305.251	0.098
290.435		297.751	0.049	305.501	0.1
290.558		298.001	0.053	305.751	0.096
290.75		298.438	0.049	306.003	0.097
291		298.561	0.051	306.251	0.1
291.25		298.751	0.047	306.501	0.098
291.5		299.001	0.052	307.624	0.095
291.75		299.251	0.05	307.953	0.095
292		299.501	0.048	308.182	0.089
292.25		299.751	0.049	308.304	0.09
292.5		300.001	0.047	308.426	0.094
292.75		300.251	0.044	308.549	0.09
293		300.501	0.047	308.672	0.096
293.25		300.751	0.048	308.795	0.094
293.5		301.001	0.05	308.917	0.097
293.75		301.251	0.046	309.039	0.094
294		301.501	0.047	309.251	0.097
294.25		301.751	0.043	309.501	0.092
294.5		302.001	0.051	309.751	0.089
294.75		302.251	0.052	310.001	0.095
295		302.501	0.049	310.251	0.094
295.435		302.751	0.051	310.501	0.095
295.558		303.001	0.051	310.751	0.09
295.75		303.438	0.051	311.001	0.093
296		303.56	0.048	311.251	0.092
296.25		303.751	0.042	311.501	0.092
296.5		304.001	0.048	312.624	0.096
296.75		304.251	0.051	312.953	0.094
297		304.501	0.05	313.182	0.089
297.25		304.751	0.047	313.304	0.093
297.5		305.001	0.051	313.426	0.091
297.75		305.251	0.049	313.549	0.095
298		305.501	0.051	313.671	0.09
298.25		305.751	0.046	313.794	0.094
298.5		306.001	0.046	313.916	0.093
298.75		306.251	0.047	314.038	0.094
299		306.501	0.045	314.251	0.095
299.25		306.751	0.049	314.501	0.092
299.5		307.001	0.051	314.751	0.09
299.75		307.251	0.051	315.001	0.095
300		307.501	0.043	315.251	0.096
300.435		307.751	0.048	315.501	0.091
300.558		308.001	0.052	315.751	0.093
300.75		308.438	0.054	316.001	0.096
301		308.56	0.045	316.251	0.094
301.25		308.751	0.049	316.501	0.092
301.5		309.001	0.054	316.946	0.092

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
301.75		309.251	0.05	317.069	0.083
302		309.501	0.044	317.251	0.091
302.25		309.751	0.046	317.501	0.092
302.5		310.001	0.05	317.751	0.092
302.75		310.251	0.05	318.001	0.094
303		310.501	0.056	318.251	0.091
303.25		310.751	0.051	318.501	0.093
303.5		311.001	0.053	318.751	0.092
303.75		311.251	0.041	319.001	0.092
304		311.501	0.05	319.251	0.088
304.25		311.751	0.046	319.501	0.094
304.5		312.001	0.053	319.751	0.093
304.75		312.251	0.043	320.001	0.092
305		312.501	0.05	320.251	0.089
305.436		312.751	0.049	320.501	0.091
305.559		313.001	0.045	320.751	0.091
305.75		313.437	0.044	321.001	0.095
306		313.559	0.045	321.251	0.093
306.25		313.751	0.043	321.501	0.092
306.5		314.001	0.042	321.945	0.093
306.75		314.251	0.047	322.068	0.086
307		314.501	0.046	322.251	0.092
307.25		314.751	0.046	322.501	0.087
307.5		315.001	0.049	322.751	0.09
307.75		315.251	0.043	323.001	0.087
308		315.501	0.047	323.251	0.087
308.25		315.751	0.048	323.501	0.09
308.5		316.001	0.055	323.751	0.087
308.75		316.251	0.041	324.001	0.091
309		316.501	0.056	324.251	0.088
309.25		316.751	0.051	324.501	0.096
309.5		317.001	0.046	324.751	0.089
309.75		317.251	0.049	325.001	0.091
310		317.501	0.05	325.251	0.085
310.435		317.751	0.049	325.501	0.092
310.557		318.001	0.051	325.751	0.09
310.75		318.437	0.042	326.001	0.088
311		318.559	0.045	326.251	0.093
311.25		318.751	0.048	326.501	0.084
311.5		319.001	0.047	326.946	0.092
311.75		319.251	0.048	327.068	0.086
312		319.501	0.047	327.251	0.087
312.25		319.751	0.05	327.501	0.087
312.5		320.001	0.048	327.751	0.087
312.75		320.251	0.049	328.001	0.085
313		320.501	0.05	328.251	0.084
313.25		320.751	0.043	328.501	0.087
313.5		321.001	0.047	328.751	0.09
313.75		321.251	0.049	329.001	0.085
314		321.501	0.049	329.251	0.084
314.25		321.751	0.041	329.501	0.088
314.5		322.001	0.049	329.751	0.086
314.75		322.251	0.043	330.001	0.088
315		322.501	0.046	330.251	0.085
315.435		322.751	0.051	330.501	0.09
315.558		323.001	0.049	330.751	0.084
315.75		323.436	0.041	331.001	0.084
316		323.559	0.045	331.251	0.089
316.25		323.751	0.042	331.501	0.089
316.5		324.001	0.047	331.946	0.089
316.75		324.251	0.041	332.068	0.085
317		324.501	0.045	332.251	0.087
317.25		324.751	0.046	332.501	0.085
317.5		325.001	0.045	332.751	0.086
317.75		325.251	0.045	333.001	0.09
318		325.501	0.041	333.251	0.081
318.25		325.751	0.045	333.501	0.08
318.5		326.001	0.048	333.751	0.083
318.75		326.251	0.045	334.001	0.09
319		326.501	0.043	334.251	0.091
319.25		326.751	0.042	334.501	0.089

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
319.5		327.001	0.049	334.751	0.086
319.75		327.251	0.042	335.001	0.093
320		327.501	0.05	335.251	0.083
320.435		327.751	0.044	335.501	0.086
320.559		328.001	0.044	335.751	0.083
320.75		328.436	0.041	336.001	0.084
321		328.558	0.044	336.251	0.087
321.25		328.751	0.046	336.501	0.086
321.5		329.001	0.041	336.946	0.089
321.75		329.251	0.039	337.068	0.084
322		329.501	0.041	337.251	0.089
322.25		329.751	0.04	337.501	0.082
322.5		330.001	0.046	337.751	0.089
322.75		330.251	0.048	338.001	0.087
323		330.501	0.047	338.251	0.092
323.25		330.751	0.044	338.501	0.085
323.5		331.001	0.048	338.751	0.088
323.75		331.251	0.048	339.001	0.086
324		331.501	0.042	339.251	0.087
324.25		331.751	0.045	339.501	0.085
324.5		332.001	0.041	339.751	0.091
324.75		332.251	0.041	340.001	0.088
325		332.501	0.044	340.251	0.09
325.435		332.751	0.048	340.501	0.084
325.558		333.001	0.041	340.751	0.087
325.75		333.436	0.041	341.001	0.087
326		333.558	0.041	341.251	0.084
326.25		333.751	0.039	341.501	0.088
326.5		334.001	0.048	341.947	0.083
326.75		334.251	0.047	342.07	0.087
327		334.501	0.046	342.251	0.087
327.25		334.751	0.049	342.501	0.086
327.5		335.001	0.039	342.751	0.088
327.75		335.251	0.047	343.001	0.09
328		335.501	0.045	343.251	0.088
328.25		335.751	0.044	343.501	0.089
328.5		336.001	0.041	343.751	0.087
328.75		336.251	0.042	344.001	0.085
329		336.501	0.041	344.251	0.087
329.25		336.751	0.042	344.501	0.089
329.5		337.001	0.043	344.751	0.094
329.75		337.251	0.041	345.001	0.091
330		337.501	0.037	345.251	0.078
330.435		337.751	0.044	345.501	0.087
330.558		338.001	0.042	345.751	0.092
330.75		338.436	0.042	346.001	0.09
331		338.558	0.034	346.251	0.081
331.25		338.751	0.043	346.501	0.087
331.5		339.001	0.037	346.945	0.084
331.75		339.251	0.039	347.068	0.082
332		339.501	0.042	347.251	0.086
332.25		339.751	0.046	347.501	0.083
332.5		340.001	0.049	347.751	0.089
332.75		340.251	0.046	348.001	0.081
333		340.501	0.045	348.251	0.086
333.25		340.751	0.043	348.501	0.083
333.5		341.001	0.042	348.751	0.084
333.75		341.251	0.044	349.001	0.085
334		341.501	0.045	349.251	0.085
334.25		341.751	0.042	349.501	0.085
334.5		342.001	0.044	349.751	0.086
334.75		342.251	0.039	350.001	0.085
335		342.501	0.035	350.251	0.083
335.435		342.751	0.039	350.501	0.082
335.557		343.001	0.044	350.751	0.085
335.75		343.436	0.037	351.001	0.078
336		343.558	0.043	351.251	0.088
336.25		343.751	0.041	351.501	0.084
336.5		344.001	0.037	351.945	0.074
336.75		344.251	0.035	352.068	0.082
337		344.501	0.036	352.251	0.077

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
337.25		344.751	0.034	352.501	0.087
337.5		345.001	0.04	352.751	0.076
337.75		345.251	0.036	353.001	0.081
338		345.501	0.042	353.251	0.084
338.25		345.751	0.038	353.501	0.082
338.5		346.001	0.036	353.751	0.081
338.75		346.251	0.045	354.001	0.078
339		346.501	0.045	354.251	0.076
339.25		346.751	0.038	354.501	0.08
339.5		347.001	0.038	354.751	0.08
339.75		347.251	0.037	355.001	0.077
340		347.501	0.042	355.251	0.079
340.435		347.751	0.041	355.501	0.083
340.557		348.001	0.037	355.751	0.076
340.75		348.436	0.041	356.001	0.083
341		348.558	0.044	356.251	0.082
341.25		348.751	0.037	356.501	0.077
341.5		349.001	0.041	356.945	0.08
341.75		349.251	0.039	357.068	0.078
342		349.501	0.035	357.251	0.078
342.25		349.751	0.041	357.501	0.078
342.5		350.001	0.042	357.751	0.083
342.75		350.251	0.035	358.001	0.083
343		350.501	0.047	358.251	0.082
343.25		350.751	0.042	358.501	0.08
343.5		351.001	0.039	358.751	0.082
343.75		351.251	0.041	359.001	0.078
344		351.501	0.041	359.251	0.084
344.25		351.751	0.045	359.501	0.081
344.5		352.001	0.044	359.751	0.081
344.75		352.251	0.04	360.001	0.082
345		352.501	0.043	360.251	0.076
345.435		352.751	0.041	360.501	0.079
345.557		353.001	0.04	360.751	0.078
345.75		353.436	0.031	361.001	0.084
346		353.558	0.039	361.251	0.081
346.25		353.751	0.039	361.501	0.083
346.5		354.001	0.042	361.945	0.078
346.75		354.251	0.041	362.067	0.081
347		354.501	0.041	362.251	0.074
347.25		354.751	0.039	362.501	0.082
347.5		355.001	0.04	362.751	0.078
347.75		355.251	0.039	363.001	0.084
348		355.501	0.04	363.251	0.078
348.25		355.751	0.04	363.501	0.079
348.5		356.001	0.036	363.751	0.081
348.75		356.251	0.044	364.001	0.078
349		356.501	0.038	364.251	0.079
349.25		356.751	0.04	364.501	0.084
349.5		357.001	0.044	364.751	0.073
349.75		357.251	0.038	365.001	0.083
350		357.501	0.039	365.251	0.082
350.435		357.751	0.035	365.501	0.081
350.557		358.001	0.039	365.751	0.08
350.75		358.436	0.043	366.001	0.081
351		358.558	0.035	366.251	0.08
351.25		358.751	0.043	366.501	0.079
351.5		359.001	0.039	366.945	0.081
351.75		359.251	0.04	367.067	0.075
352		359.501	0.044	367.251	0.077
352.25		359.751	0.038	367.501	0.079
352.5		360.001	0.039	367.751	0.079
352.75		360.251	0.039	368.001	0.08
353		360.501	0.038	368.251	0.075
353.25		360.751	0.039	368.501	0.084
353.5		361.001	0.037	368.751	0.079
353.75		361.251	0.036	369.001	0.074
354		361.501	0.037	369.251	0.08
354.25		361.751	0.038	369.501	0.073
354.5		362.001	0.039	369.751	0.079
354.75		362.251	0.039	370.001	0.078

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
355		362.501	0.039	370.251	0.083
355.435		362.751	0.032	370.501	0.077
355.557		363.001	0.038	370.751	0.078
355.75		363.437	0.035	371.001	0.082
356		363.559	0.037	371.251	0.078
356.25		363.751	0.038	371.501	0.08
356.5		364.001	0.041	371.945	0.079
356.75		364.251	0.032	372.067	0.081
357		364.501	0.037	372.251	0.078
357.25		364.751	0.041	372.501	0.079
357.5		365.001	0.043	372.751	0.079
357.75		365.251	0.04	373.001	0.079
358		365.501	0.034	373.251	0.078
358.25		365.751	0.04	373.501	0.078
358.5		366.001	0.031	373.751	0.083
358.75		366.251	0.038	374.001	0.084
359		366.501	0.037	374.251	0.081
359.25		366.751	0.037	374.501	0.08
359.5		367.001	0.04	374.751	0.077
359.75		367.251	0.039	375.001	0.075
360		367.501	0.037	375.251	0.081
360.435		367.751	0.038	375.501	0.079
360.557		368.001	0.04	375.751	0.072
360.75		368.436	0.039	376.001	0.085
361		368.558	0.039	376.251	0.076
361.25		368.751	0.039	376.501	0.085
361.5		369.001	0.036	377.02	0.08
361.75		369.251	0.039	377.142	0.078
362		369.501	0.041	377.265	0.082
362.25		369.751	0.04	377.501	0.081
362.5		370.001	0.042	377.751	0.083
362.75		370.251	0.032	378.001	0.081
363		370.501	0.037	378.251	0.08
363.25		370.751	0.035	378.501	0.082
363.5		371.001	0.034	378.751	0.081
363.75		371.251	0.036	379.001	0.076
364		371.501	0.039	379.251	0.082
364.25		371.751	0.037	379.501	0.082
364.5		372.001	0.038	379.751	0.076
364.75		372.251	0.033	380.001	0.079
365		372.501	0.034	380.251	0.083
365.435		372.751	0.039	380.501	0.077
365.557		373.001	0.037	380.751	0.083
365.75		373.436	0.04	381.001	0.079
366		373.558	0.043	381.251	0.083
366.25		373.751	0.035	381.501	0.073
366.5		374.001	0.036	381.945	0.071
366.75		374.251	0.037	382.067	0.078
367		374.501	0.035	382.251	0.078
367.25		374.751	0.039	382.501	0.077
367.5		375.001	0.039	382.751	0.084
367.75		375.251	0.04	383.001	0.076
368		375.501	0.038	383.251	0.082
368.25		375.751	0.037	383.501	0.079
368.5		376.001	0.038	383.751	0.079
368.75		376.251	0.032	384.001	0.079
369		376.501	0.037	384.251	0.079
369.25		376.751	0.036	384.501	0.079
369.5		377.001	0.032	384.751	0.083
369.75		377.251	0.036	385.001	0.083
370		377.501	0.033	385.251	0.082
370.435		377.751	0.038	385.501	0.074
370.557		378.001	0.035	385.751	0.082
370.75		378.436	0.036	386.001	0.078
371		378.559	0.034	386.251	0.079
371.25		378.751	0.035	386.501	0.076
371.5		379.001	0.038	386.945	0.08
371.75		379.251	0.036	387.073	0.081
372		379.501	0.038	387.251	0.079
372.25		379.751	0.037	387.501	0.081
372.5		380.001	0.04	387.751	0.074

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
372.75		380.251	0.033	388.001	0.075
373		380.501	0.035	388.251	0.08
373.25		380.751	0.041	388.501	0.075
373.5		381.001	0.039	388.751	0.078
373.75		381.251	0.036	389.001	0.076
374		381.501	0.038	389.251	0.076
374.25		381.751	0.044	389.501	0.08
374.5		382.001	0.04	389.751	0.079
374.75		382.251	0.037	390.001	0.076
375		382.501	0.042	390.251	0.078
375.436		382.751	0.041	390.501	0.082
375.558		383.001	0.038	390.751	0.076
375.75		383.436	0.036	391.001	0.074
376		383.558	0.038	391.251	0.073
376.25		383.751	0.038	391.501	0.079
376.5		384.001	0.043	391.945	0.089
376.75		384.251	0.038	392.067	0.07
377		384.501	0.036	392.251	0.077
377.25		384.751	0.036	392.501	0.076
377.5		385.001	0.039	392.751	0.073
377.75		385.251	0.044	393.001	0.074
378		385.501	0.048	393.251	0.076
378.25		385.751	0.041	393.501	0.082
378.5		386.001	0.036	393.751	0.077
378.75		386.251	0.042	394.001	0.075
379		386.501	0.036	394.251	0.078
379.25		386.751	0.041	394.501	0.079
379.5		387.001	0.039	394.751	0.076
379.75		387.251	0.037	395.001	0.075
380		387.501	0.043	395.251	0.077
380.435		387.751	0.047	395.501	0.081
380.557		388.001	0.045	395.751	0.078
380.75		388.436	0.038	396.001	0.078
381		388.558	0.038	396.251	0.075
381.25		388.751	0.041	396.501	0.076
381.5		389.001	0.047	396.946	0.076
381.75		389.251	0.044	397.068	0.079
382		389.501	0.044	397.251	0.077
382.25		389.751	0.045	397.501	0.081
382.5		390.001	0.044	397.751	0.08
382.75		390.251	0.041	398.001	0.08
383		390.501	0.037	398.251	0.079
383.25		390.751	0.042	398.501	0.075
383.5		391.001	0.039	398.751	0.08
383.75		391.251	0.038	399.001	0.079
384		391.501	0.042	399.251	0.075
384.25		391.751	0.038	399.501	0.079
384.5		392.001	0.039	399.751	0.071
384.75		392.251	0.04	400.001	0.076
385		392.501	0.039	400.251	0.075
385.435		392.751	0.038	400.501	0.075
385.557		393.001	0.034	400.751	0.078
385.75		393.436	0.038	401.001	0.072
386		393.558	0.034	401.251	0.076
386.25		393.751	0.039	401.501	0.076
386.5		394.001	0.037	401.945	0.075
386.75		394.251	0.036	402.067	0.078
387		394.501	0.031	402.251	0.075
387.25		394.751	0.036	402.501	0.075
387.5		395.001	0.032	402.751	0.075
387.75		395.251	0.037	403.001	0.074
388		395.501	0.031	403.251	0.075
388.25		395.751	0.035	403.501	0.078
388.5		396.001	0.037	403.751	0.079
388.75		396.251	0.033	404.001	0.072
389		396.501	0.033	404.251	0.074
389.25		396.751	0.034	404.501	0.079
389.5		397.001	0.035	404.751	0.078
389.75		397.251	0.032	405.001	0.076
390		397.501	0.032	405.251	0.077
390.435		397.751	0.034	405.501	0.07

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
390.558		398.001	0.032	405.751	0.072
390.75		398.436	0.035	406.001	0.073
391		398.558	0.029	406.251	0.071
391.25		398.751	0.032	406.501	0.079
391.5		399.001	0.031	406.945	0.073
391.75		399.251	0.033	407.067	0.078
392		399.501	0.04	407.259	0.075
392.25		399.751	0.034	407.501	0.075
392.5		400.001	0.036	407.751	0.075
392.75		400.251	0.039	408.001	0.075
393		400.501	0.039	408.251	0.08
393.25		400.751	0.036	408.501	0.078
393.5		401.001	0.039	408.751	0.074
393.75		401.251	0.039	409.001	0.079
394		401.501	0.035	409.251	0.083
394.25		401.751	0.037	409.501	0.079
394.5		402.001	0.039	409.751	0.078
394.75		402.251	0.041	410.001	0.08
395		402.501	0.046	410.251	0.079
395.435		402.751	0.035	410.501	0.085
395.557		403.001	0.035	410.751	0.077
395.75		403.436	0.037	411.001	0.076
396		403.558	0.036	411.251	0.074
396.25		403.751	0.041	411.501	0.077
396.5		404.001	0.038	411.945	0.08
396.75		404.251	0.038	412.069	0.073
397		404.501	0.034	412.251	0.076
397.25		404.751	0.038	412.501	0.076
397.5		405.001	0.038	412.751	0.076
397.75		405.251	0.04	413.001	0.076
398		405.501	0.033	413.251	0.071
398.25		405.751	0.035	413.501	0.069
398.5		406.001	0.038	413.751	0.074
398.75		406.251	0.035	414.001	0.075
399		406.501	0.042	414.251	0.075
399.25		406.751	0.033	414.501	0.073
399.5		407.001	0.039	414.751	0.077
399.75		407.251	0.034	415.001	0.07
400		407.501	0.037	415.251	0.078
400.445		407.751	0.032	415.501	0.074
400.567		408.001	0.035	415.751	0.069
400.75		408.436	0.033	416.001	0.078
401		408.558	0.029	416.251	0.069
401.25		408.751	0.036	416.501	0.076
401.5		409.001	0.034	416.945	0.078
401.75		409.251	0.037	417.067	0.081
402		409.501	0.031	417.251	0.07
402.25		409.751	0.035	417.501	0.073
402.5		410.001	0.03	417.751	0.07
402.75		410.251	0.035	418.001	0.075
403		410.501	0.032	418.251	0.067
403.25		410.751	0.039	418.501	0.075
403.5		411.001	0.036	418.751	0.074
403.75		411.251	0.039	419.001	0.073
404		411.501	0.036	419.251	0.075
404.25		411.751	0.028	419.501	0.071
404.5		412.001	0.029	419.751	0.071
404.75		412.251	0.03	420.001	0.077
405		412.501	0.032	420.251	0.076
405.445		412.751	0.036	420.501	0.08
405.567		413.001	0.036	420.751	0.08
405.75		413.436	0.038	421.001	0.074
406		413.558	0.031	421.251	0.076
406.25		413.751	0.033	421.501	0.076
406.5		414.001	0.032	421.945	0.078
406.75		414.251	0.03	422.067	0.075
407		414.501	0.036	422.251	0.072
407.25		414.751	0.033	422.501	0.07
407.5		415.001	0.038	422.751	0.073
407.75		415.251	0.032	423.001	0.074
408		415.501	0.03	423.251	0.075

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
408.25		415.751	0.034	423.501	0.071
408.5		416.001	0.036	423.751	0.071
408.75		416.251	0.031	424.001	0.071
409		416.501	0.032	424.251	0.076
409.25		416.751	0.036	424.501	0.065
409.5		417.001	0.03	424.751	0.067
409.75		417.251	0.032	425.001	0.069
410		417.501	0.036	425.251	0.074
410.444		417.751	0.035	425.501	0.066
410.566		418.001	0.028	425.751	0.069
410.75		418.251	0.033	426.001	0.062
411		418.501	0.031	426.251	0.07
411.25		418.751	0.037	426.501	0.069
411.5		419.001	0.035	426.945	0.075
411.75		419.251	0.044	427.068	0.073
412		419.501	0.032	427.251	0.076
412.25		419.751	0.036	427.501	0.072
412.5		420.001	0.042	427.751	0.071
412.75		420.251	0.041	428.001	0.073
413		420.501	0.035	428.251	0.068
413.25		420.751	0.035	428.501	0.071
413.5		421.001	0.036	428.751	0.073
413.75		421.251	0.037	429.001	0.073
414		421.501	0.036	429.251	0.069
414.25		421.751	0.034	429.501	0.07
414.5		422.001	0.03	429.751	0.072
414.75		422.251	0.032	430.001	0.075
415		422.501	0.033	430.251	0.072
415.444		422.751	0.039	430.501	0.071
415.566		423.001	0.03	430.751	0.07
415.75		423.251	0.038	431.001	0.074
416		423.501	0.035	431.251	0.069
416.25		423.751	0.039	431.501	0.066
416.5		424.001	0.033	431.945	0.071
416.75		424.251	0.033	432.068	0.066
417		424.501	0.041	432.251	0.07
417.25		424.751	0.034	432.501	0.067
417.5		425.001	0.035	432.751	0.067
417.75		425.251	0.034	433.001	0.067
418		425.501	0.033	433.251	0.069
418.25		425.751	0.038	433.501	0.061
418.5		426.001	0.039	433.751	0.065
418.75		426.251	0.033	434.001	0.071
419		426.501	0.031	434.251	0.075
419.25		426.751	0.031	434.501	0.071
419.5		427.001	0.034	434.751	0.07
419.75		427.251	0.034	435.001	0.073
420		427.501	0.035	435.251	0.065
420.444		427.751	0.035	435.501	0.071
420.566		428.001	0.033	435.751	0.068
420.75		428.251	0.037	436.001	0.067
421		428.501	0.031	436.251	0.065
421.25		428.751	0.028	436.501	0.067
421.5		429.001	0.032	436.945	0.073
421.75		429.251	0.027	437.069	0.073
422		429.501	0.029	437.251	0.074
422.25		429.751	0.031	437.501	0.071
422.5		430.001	0.032	437.751	0.075
422.75		430.251	0.028	438.001	0.071
423		430.501	0.032	438.251	0.073
423.25		430.751	0.031	438.501	0.072
423.5		431.001	0.035	438.751	0.073
423.75		431.251	0.031	439.001	0.071
424		431.501	0.032	439.251	0.077
424.25		431.751	0.036	439.501	0.066
424.5		432.001	0.039	439.751	0.07
424.75		432.251	0.035	440.001	0.076
425		432.501	0.034	440.251	0.07
425.443		432.751	0.031	440.501	0.071
425.565		433.001	0.035	440.751	0.074
425.75		433.251	0.032	441.001	0.072

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
426		433.501	0.035	441.251	0.073
426.25		433.751	0.032	441.501	0.066
426.5		434.001	0.037	441.945	0.072
426.75		434.251	0.034	442.069	0.073
427		434.501	0.033	442.251	0.077
427.25		434.751	0.038	442.501	0.066
427.5		435.001	0.037	442.751	0.071
427.75		435.251	0.031	443.001	0.068
428		435.501	0.035	443.251	0.072
428.25		435.751	0.033	443.501	0.071
428.5		436.001	0.036	443.751	0.074
428.75		436.251	0.032	444.001	0.075
429		436.501	0.029	444.251	0.075
429.25		436.751	0.037	444.501	0.071
429.5		437.001	0.036	444.751	0.074
429.75		437.251	0.038	445.001	0.068
430		437.501	0.035	445.251	0.073
430.444		437.751	0.032	445.501	0.071
430.566		438.001	0.035	445.751	0.07
430.75		438.251	0.035	446.001	0.071
431		438.501	0.039	446.251	0.064
431.25		438.751	0.035	446.501	0.071
431.5		439.001	0.034	446.945	0.071
431.75		439.251	0.032	447.069	0.069
432		439.501	0.036	447.251	0.075
432.25		439.751	0.037	447.501	0.073
432.5		440.001	0.033	447.751	0.07
432.75		440.251	0.032	448.001	0.072
433		440.501	0.038	448.251	0.074
433.25		440.751	0.038	448.501	0.07
433.5		441.001	0.041	448.751	0.072
433.75		441.251	0.037	449.001	0.07
434		441.501	0.036	449.251	0.071
434.25		441.751	0.036	449.501	0.072
434.5		442.001	0.038	449.751	0.076
434.75		442.251	0.037	450.001	0.074
435		442.501	0.034	450.251	0.069
435.443		442.751	0.032	450.501	0.068
435.565		443.001	0.034	450.751	0.073
435.75		443.251	0.03	451.001	0.074
436		443.501	0.033	451.251	0.066
436.25		443.751	0.031	451.501	0.069
436.5		444.001	0.028	451.945	0.07
436.75		444.251	0.035	452.069	0.071
437		444.501	0.032	452.251	0.069
437.25		444.751	0.037	452.501	0.07
437.5		445.001	0.036	452.751	0.071
437.75		445.251	0.036	453.001	0.074
438		445.501	0.031	453.251	0.069
438.25		445.751	0.034	453.501	0.075
438.5		446.001	0.036	453.751	0.07
438.75		446.251	0.036	454.001	0.07
439		446.501	0.038	454.251	0.064
439.25		446.751	0.034	454.501	0.072
439.5		447.001	0.034	454.751	0.071
439.75		447.251	0.033	455.001	0.07
440		447.501	0.034	455.251	0.075
440.443		447.751	0.036	455.501	0.072
440.565		448.001	0.03	455.751	0.07
440.75		448.251	0.034	456.001	0.07
441		448.501	0.031	456.251	0.073
441.25		448.751	0.031	456.501	0.077
441.5		449.001	0.032	456.946	0.068
441.75		449.251	0.031	457.069	0.072
442		449.501	0.035	457.251	0.074
442.25		449.751	0.029	457.501	0.07
442.5		450.001	0.029	457.751	0.067
442.75		450.251	0.035	458.001	0.07
443		450.501	0.033	458.251	0.071
443.25		450.751	0.039	458.501	0.073
443.5		451.001	0.033	458.751	0.071

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
443.75		451.251	0.033	459.001	0.067
444		451.501	0.031	459.251	0.066
444.25		451.751	0.033	459.501	0.07
444.5		452.001	0.035	459.751	0.069
444.75		452.251	0.031	460.001	0.064
445		452.501	0.035	460.251	0.071
445.442		452.751	0.037	460.501	0.068
445.565		453.001	0.032	460.751	0.071
445.75		453.251	0.038	461.001	0.072
446		453.501	0.034	461.251	0.077
446.25		453.751	0.039	461.501	0.068
446.5		454.001	0.035	461.946	0.07
446.75		454.251	0.036	462.069	0.067
447		454.501	0.035	462.251	0.071
447.25		454.751	0.039	462.501	0.073
447.5		455.001	0.038	462.751	0.069
447.75		455.251	0.033	463.001	0.069
448		455.501	0.034	463.251	0.063
448.25		455.751	0.037	463.501	0.068
448.5		456.001	0.036	463.751	0.07
448.75		456.251	0.039	464.001	0.07
449		456.501	0.031	464.251	0.071
449.25		456.751	0.038	464.501	0.068
449.5		457.001	0.035	464.751	0.07
449.75		457.251	0.034	465.001	0.066
450		457.501	0.037	465.251	0.071
450.442		457.751	0.035	465.501	0.069
450.564		458.001	0.033	465.751	0.069
450.75		458.251	0.035	466.001	0.065
451		458.501	0.033	466.251	0.074
451.25		458.751	0.036	466.501	0.071
451.5		459.001	0.032	466.947	0.072
451.75		459.251	0.034	467.069	0.075
452		459.501	0.032	467.251	0.073
452.25		459.751	0.032	467.501	0.071
452.5		460.001	0.032	467.751	0.069
452.75		460.251	0.032	468.001	0.075
453		460.501	0.032	468.251	0.069
453.25		460.751	0.037	468.501	0.072
453.5		461.001	0.036	468.751	0.072
453.75		461.251	0.036	469.001	0.067
454		461.501	0.038	469.251	0.072
454.25		461.751	0.04	469.501	0.073
454.5		462.001	0.035	469.751	0.07
454.75		462.251	0.034	470.001	0.069
455		462.501	0.036	470.251	0.065
455.442		462.751	0.034	470.501	0.07
455.564		463.001	0.033	470.751	0.074
455.75		463.251	0.035	471.001	0.072
456		463.501	0.037	471.251	0.075
456.25		463.751	0.033	471.501	0.074
456.5		464.001	0.029	471.945	0.07
456.75		464.251	0.03	472.068	0.067
457		464.501	0.029	472.251	0.072
457.25		464.751	0.033	472.501	0.07
457.5		465.001	0.031	472.751	0.071
457.75		465.251	0.028	473.001	0.068
458		465.501	0.037	473.251	0.071
458.25		465.751	0.03	473.501	0.07
458.5		466.001	0.034	473.751	0.07
458.75		466.251	0.033	474.001	0.071
459		466.501	0.037	474.251	0.073
459.25		466.751	0.028	474.501	0.069
459.5		467.001	0.036	474.751	0.072
459.75		467.251	0.031	475.001	0.076
460		467.501	0.034	475.251	0.081
460.441		467.751	0.04	475.501	0.076
460.564		468.001	0.031	475.751	0.069
460.75		468.251	0.029	476.001	0.08
461		468.501	0.038	476.251	0.07
461.25		468.751	0.038	476.501	0.073

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
461.5		469.001	0.036	476.945	0.073
461.75		469.251	0.037	477.068	0.069
462		469.501	0.034	477.251	0.077
462.25		469.751	0.036	477.501	0.07
462.5		470.001	0.035	477.751	0.072
462.75		470.251	0.031	478.001	0.068
463		470.501	0.026	478.251	0.076
463.25		470.751	0.029	478.501	0.069
463.5		471.001	0.035	478.751	0.075
463.75		471.251	0.034	479.001	0.075
464		471.501	0.035	479.251	0.071
464.25		471.751	0.027	479.501	0.07
464.5		472.001	0.031	479.751	0.073
464.75		472.251	0.031	480.001	0.071
465		472.501	0.032	480.251	0.072
465.441		472.751	0.03	480.501	0.071
465.564		473.001	0.039	480.751	0.068
465.75		473.251	0.032	481.001	0.066
466		473.501	0.03	481.251	0.075
466.25		473.751	0.032	481.501	0.069
466.5		474.001	0.037	481.945	0.066
466.75		474.251	0.039	482.069	0.072
467		474.501	0.035	482.251	0.072
467.25		474.751	0.033	482.501	0.067
467.5		475.001	0.037	482.751	0.075
467.75		475.251	0.034	483.001	0.067
468		475.501	0.035	483.251	0.068
468.25		475.751	0.03	483.501	0.072
468.5		476.001	0.035	483.751	0.068
468.75		476.251	0.034	484.001	0.068
469		476.501	0.033	484.251	0.069
469.25		476.751	0.036	484.501	0.062
469.5		477.001	0.029	484.751	0.066
469.75		477.251	0.031	485.001	0.065
470		477.501	0.029	485.251	0.068
470.441		477.751	0.031	485.501	0.07
470.563		478.001	0.032	485.751	0.067
470.75		478.251	0.032	486.001	0.07
471		478.501	0.037	486.251	0.061
471.25		478.751	0.038	486.501	0.066
471.5		479.001	0.033	486.945	0.064
471.75		479.251	0.034	487.068	0.069
472		479.501	0.031	487.251	0.067
472.25		479.751	0.036	487.501	0.064
472.5		480.001	0.035	487.751	0.064
472.75		480.251	0.031	488.001	0.064
473		480.501	0.031	488.251	0.069
473.25		480.751	0.027	488.501	0.064
473.5		481.001	0.028	488.751	0.068
473.75		481.251	0.029	489.001	0.067
474		481.501	0.027	489.251	0.071
474.25		481.751	0.038	489.501	0.067
474.5		482.001	0.038	489.751	0.072
474.75		482.251	0.033	490.001	0.075
475		482.501	0.033	490.251	0.069
475.44		482.751	0.029	490.501	0.071
475.562		483.001	0.032	490.751	0.073
475.75		483.251	0.024	491.001	0.071
476		483.501	0.028	491.251	0.072
476.25		483.751	0.03	491.501	0.071
476.5		484.001	0.027	491.945	0.067
476.75		484.251	0.032	492.068	0.072
477		484.501	0.028	492.251	0.071
477.25		484.751	0.023	492.501	0.067
477.5		485.001	0.027	492.751	0.074
477.75		485.251	0.024	493.001	0.071
478		485.501	0.031	493.251	0.068
478.25		485.751	0.031	493.501	0.072
478.5		486.001	0.03	493.751	0.074
478.75		486.251	0.028	494.001	0.074
479		486.501	0.031	494.251	0.071

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
479.25		486.751	0.032	494.501	0.072
479.5		487.001	0.034	494.751	0.065
479.75		487.251	0.03	495.001	0.07
480		487.501	0.024	495.251	0.071
480.44		487.751	0.029	495.501	0.064
480.562		488.001	0.021	495.751	0.068
480.75		488.251	0.028	496.001	0.07
481		488.501	0.029	496.251	0.07
481.25		488.751	0.033	496.501	0.069
481.5		489.001	0.028	496.945	0.074
481.75		489.251	0.035	497.067	0.072
482		489.501	0.034	497.251	0.073
482.25		489.751	0.033	497.501	0.073
482.5		490.001	0.034	497.751	0.076
482.75		490.251	0.034	498.001	0.078
483		490.501	0.032	498.251	0.072
483.25		490.751	0.031	498.501	0.07
483.5		491.001	0.035	498.751	0.072
483.75		491.251	0.037	499.001	0.074
484		491.501	0.033	499.251	0.071
484.25		491.751	0.032	499.501	0.066
484.5		492.001	0.033	499.751	0.071
484.75		492.251	0.031	500.001	0.072
485		492.501	0.033	500.251	0.07
485.44		492.751	0.03	500.501	0.069
485.562		493.001	0.036	500.751	0.069
485.75		493.251	0.031	501.001	0.071
486		493.501	0.032	501.251	0.069
486.25		493.751	0.037	501.501	0.074
486.5		494.001	0.035	501.942	0.069
486.75		494.251	0.035	502.064	0.076
487		494.501	0.034	502.251	0.067
487.25		494.751	0.037	502.501	0.069
487.5		495.001	0.035	502.751	0.07
487.75		495.251	0.03	503.001	0.073
488		495.501	0.034	503.251	0.073
488.25		495.751	0.039	503.501	0.075
488.5		496.001	0.033	503.751	0.072
488.75		496.251	0.034	504.001	0.072
489		496.501	0.035	504.251	0.076
489.25		496.751	0.036	504.501	0.069
489.5		497.001	0.033	504.751	0.065
489.75		497.251	0.031	505.001	0.065
490		497.501	0.033	505.251	0.066
490.439		497.751	0.035	505.501	0.07
490.561		498.001	0.03	505.751	0.072
490.75		498.251	0.032	506.001	0.076
491		498.501	0.033	506.251	0.071
491.25		498.751	0.039	506.501	0.07
491.5		499.001	0.032	506.941	0.069
491.75		499.251	0.039	507.064	0.065
492		499.501	0.035	507.251	0.069
492.25		499.751	0.037	507.501	0.071
492.5		500.001	0.032	507.751	0.066
492.75		500.251	0.03	508.001	0.072
493		500.501	0.033	508.251	0.068
493.25		500.751	0.033	508.501	0.076
493.5		501.001	0.032	508.751	0.068
493.75		501.251	0.03	509.001	0.07
494		501.501	0.036	509.251	0.064
494.25		501.751	0.036	509.501	0.068
494.5		502.001	0.032	509.751	0.074
494.75		502.251	0.031	510.001	0.071
495		502.501	0.036	510.251	0.065
495.439		502.751	0.034	510.501	0.066
495.561		503.001	0.033	510.751	0.066
495.75		503.251	0.028	511.001	0.062
496		503.501	0.036	511.251	0.068
496.25		503.751	0.027	511.501	0.065
496.5		504.001	0.031	511.941	0.077
496.75		504.251	0.035	512.064	0.068

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
497		504.501	0.031	512.251	0.064
497.25		504.752	0.037	512.501	0.073
497.5		505.001	0.034	512.751	0.065
497.75		505.251	0.032	513.001	0.073
498		505.501	0.035	513.251	0.068
498.25		505.751	0.031	513.501	0.07
498.5		506.275	0.03	513.751	0.067
498.75		506.398	0.031	514.001	0.071
499		506.522	0.026	514.251	0.069
499.25		506.751	0.025	514.501	0.065
499.5		507.001	0.029	514.751	0.068
499.75		507.251	0.026	515.001	0.072
500		507.501	0.03	515.251	0.075
500.44		507.751	0.026	515.501	0.069
500.562		508.001	0.024	515.751	0.068
500.75		508.251	0.031	516.001	0.073
501		508.501	0.032	516.251	0.071
501.25		508.751	0.034	516.501	0.066
501.5		509.001	0.038	516.941	0.065
501.75		509.251	0.032	517.064	0.07
502		509.501	0.037	517.251	0.068
502.25		509.889	0.033	517.501	0.068
502.5		510.012	0.032	517.751	0.069
502.75		510.251	0.029	518.001	0.066
503		510.501	0.034	518.251	0.066
503.25		510.751	0.033	518.501	0.073
503.5		511.001	0.034	518.751	0.074
503.75		511.251	0.034	519.001	0.068
504		511.501	0.031	519.251	0.07
504.25		511.751	0.03	519.501	0.065
504.5		512.001	0.034	519.751	0.067
504.75		512.251	0.03	520.001	0.067
505		512.501	0.034	520.251	0.065
505.439		512.751	0.031	520.501	0.068
505.561		513.001	0.035	520.751	0.074
505.75		513.251	0.03	521.001	0.068
506		513.501	0.03	521.251	0.072
506.25		513.751	0.026	521.501	0.07
506.5		514.001	0.031	521.942	0.068
506.75		514.251	0.036	522.064	0.068
507		514.501	0.036	522.251	0.069
507.25		514.751	0.029	522.501	0.069
507.5		515.001	0.031	522.751	0.072
507.75		515.251	0.031	523.001	0.069
508		515.501	0.032	523.251	0.068
508.25		515.751	0.033	523.501	0.069
508.5		516.001	0.028	523.751	0.068
508.75		516.251	0.032	524.001	0.069
509		516.501	0.031	524.251	0.073
509.25		516.751	0.031	524.501	0.062
509.5		517.001	0.03	524.751	0.069
509.75		517.251	0.029	525.001	0.072
510		517.501	0.035	525.251	0.065
510.439		517.751	0.03	525.501	0.068
510.561		518.001	0.032	525.751	0.066
510.75		518.251	0.037	526.001	0.059
511		518.501	0.037	526.251	0.069
511.25		518.751	0.034	526.501	0.069
511.5		519.001	0.037	526.941	0.062
511.75		519.251	0.033	527.063	0.067
512		519.501	0.037	527.251	0.068
512.25		519.751	0.037	527.501	0.064
512.5		520.001	0.038	527.751	0.071
512.75		520.251	0.033	528.001	0.07
513		520.501	0.038	528.251	0.072
513.25		520.751	0.034	528.501	0.069
513.5		521.001	0.031	528.751	0.075
513.75		521.251	0.033	529.001	0.073
514		521.501	0.033	529.251	0.07
514.25		521.751	0.038	529.501	0.066
514.5		522.001	0.036	529.751	0.066

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
514.75		522.251	0.034	530.001	0.073
515		522.501	0.035	530.251	0.071
515.439		522.751	0.03	530.501	0.063
515.562		523.001	0.034	530.751	0.068
515.75		523.251	0.034	531.001	0.067
516		523.501	0.038	531.251	0.068
516.25		523.751	0.03	531.501	0.068
516.5		524.001	0.034	531.941	0.067
516.75		524.251	0.029	532.063	0.066
517		524.501	0.028	532.251	0.071
517.25		524.751	0.032	532.501	0.064
517.5		525.001	0.036	532.751	0.071
517.75		525.251	0.03	533.001	0.07
518		525.501	0.033	533.251	0.067
518.25		525.751	0.028	533.501	0.063
518.5		526.001	0.033	533.751	0.064
518.75		526.251	0.029	534.001	0.066
519		526.501	0.033	534.251	0.066
519.25		526.751	0.034	534.501	0.062
519.5		527.001	0.031	534.751	0.071
519.75		527.251	0.037	535.001	0.067
520		527.501	0.031	535.251	0.071
520.437		527.751	0.037	535.501	0.062
520.56		528.001	0.028	535.751	0.067
520.75		528.251	0.03	536.001	0.069
521		528.501	0.034	536.251	0.068
521.25		528.751	0.037	536.501	0.071
521.5		529.001	0.032	536.94	0.063
521.75		529.251	0.03	537.064	0.07
522		529.501	0.034	537.251	0.067
522.25		529.751	0.03	537.501	0.073
522.5		530.001	0.034	537.751	0.063
522.75		530.251	0.026	538.001	0.064
523		530.501	0.035	538.251	0.065
523.25		530.751	0.033	538.501	0.073
523.5		531.001	0.034	538.751	0.069
523.75		531.251	0.033	539.001	0.067
524		531.501	0.029	539.251	0.064
524.25		531.751	0.033	539.501	0.067
524.5		532.001	0.026	539.751	0.062
524.75		532.554	0.029	540.001	0.066
525		532.676	0.025	540.251	0.071
525.437		532.798	0.03	540.501	0.068
525.56		533.001	0.034	540.751	0.073
525.75		533.251	0.025	541.001	0.066
526		533.501	0.031	541.251	0.068
526.25		533.751	0.031	541.501	0.066
526.5		534.001	0.03	541.94	0.063
526.75		534.251	0.033	542.063	0.07
527		534.501	0.028	542.251	0.074
527.25		534.751	0.025	542.501	0.067
527.5		535.001	0.031	542.751	0.071
527.75		535.251	0.032	543.001	0.073
528		535.501	0.025	543.251	0.079
528.25		535.751	0.028	543.501	0.07
528.5		536.001	0.027	543.751	0.072
528.75		536.251	0.032	544.001	0.071
529		536.514	0.028	544.251	0.067
529.25		536.751	0.021	544.501	0.069
529.5		537.272	0.027	544.751	0.067
529.75		537.394	0.031	545.001	0.072
530		537.517	0.035	545.251	0.07
530.437		537.751	0.031	545.501	0.065
530.559		538.001	0.031	545.751	0.067
530.75		538.251	0.027	546.001	0.059
531		538.501	0.036	546.251	0.065
531.25		538.751	0.033	546.501	0.073
531.5		539.001	0.035	546.94	0.072
531.75		539.251	0.036	547.063	0.073
532		539.501	0.034	547.251	0.069
532.25		539.751	0.038	547.501	0.07

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
532.5		540.001	0.038	547.751	0.07
532.75		540.251	0.037	548.001	0.067
533		540.501	0.034	548.251	0.073
533.25		540.751	0.03	548.501	0.069
533.5		541.001	0.029	548.751	0.072
533.75		541.251	0.032	549.001	0.071
534		541.501	0.034	549.251	0.065
534.25		541.751	0.035	549.501	0.078
534.5		542.272	0.028	549.751	0.068
534.75		542.394	0.028	550.001	0.069
535		542.518	0.031	550.251	0.07
535.436		542.888	0.033	550.501	0.066
535.559		543.013	0.033	550.751	0.069
535.75		543.251	0.024	551.001	0.065
536		543.501	0.039	551.251	0.066
536.25		543.751	0.036	551.501	0.068
536.5		544.001	0.034	551.94	0.074
536.75		544.251	0.032	552.064	0.066
537		544.501	0.037	552.251	0.067
537.25		544.751	0.027	552.501	0.073
537.5		545.001	0.033	552.751	0.064
537.75		545.251	0.033	553.001	0.073
538		545.501	0.033	553.251	0.063
538.25		545.751	0.031	553.501	0.071
538.5		546.001	0.036	553.751	0.068
538.75		546.251	0.035	554.001	0.07
539		546.501	0.03	554.251	0.07
539.25		546.751	0.034	554.501	0.071
539.5		547.001	0.036	554.751	0.076
539.75		547.251	0.036	555.001	0.071
540		547.501	0.03	555.251	0.065
540.436		547.751	0.036	555.501	0.065
540.559		548.001	0.029	555.751	0.07
540.75		548.251	0.035	556.001	0.07
541		548.501	0.031	556.251	0.072
541.25		548.751	0.028	556.501	0.068
541.5		549.001	0.031	556.939	0.071
541.75		549.251	0.032	557.062	0.067
542		549.501	0.034	557.251	0.071
542.25		549.751	0.031	557.501	0.072
542.5		550.001	0.029	557.751	0.071
542.75		550.251	0.031	558.001	0.066
543		550.501	0.023	558.251	0.073
543.25		550.751	0.031	558.501	0.071
543.5		551.001	0.028	558.751	0.071
543.75		551.251	0.033	559.001	0.07
544		551.501	0.029	559.251	0.063
544.25		551.751	0.032	559.501	0.069
544.501		552.001	0.027	559.751	0.071
544.75		552.251	0.036	560.001	0.068
545		552.501	0.033	560.251	0.072
545.436		552.751	0.029	560.501	0.071
545.559		553.001	0.023	560.751	0.068
545.75		553.251	0.03	561.001	0.072
546		553.501	0.036	561.251	0.071
546.25		553.751	0.033	561.501	0.069
546.5		554.001	0.029	561.939	0.067
546.75		554.251	0.029	562.062	0.069
547		554.501	0.032	562.251	0.068
547.25		554.751	0.026	562.501	0.066
547.5		555.001	0.026	562.751	0.067
547.75		555.251	0.027	563.001	0.066
548		555.501	0.032	563.251	0.069
548.25		555.751	0.027	563.501	0.071
548.5		556.001	0.031	563.751	0.068
548.75		556.251	0.032	564.001	0.061
549		556.501	0.028	564.251	0.069
549.25		556.751	0.027	564.501	0.068
549.5		557.001	0.027	564.751	0.068
549.75		557.251	0.027	565.001	0.071
550		557.501	0.028	565.251	0.069

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
550.436		557.751	0.03	565.501	0.065
550.559		558.001	0.03	565.751	0.072
550.75		558.251	0.033	566.001	0.065
551		558.501	0.03	566.251	0.067
551.25		558.751	0.022	566.501	0.067
551.5		559.001	0.029	566.939	0.071
551.75		559.251	0.031	567.062	0.073
552		559.501	0.031	567.251	0.072
552.25		559.751	0.031	567.501	0.067
552.5		560.001	0.031	567.751	0.067
552.75		560.251	0.031	568.001	0.064
553		560.501	0.033	568.251	0.068
553.25		560.751	0.038	568.501	0.066
553.5		561.001	0.033	568.751	0.072
553.75		561.251	0.036	569.001	0.066
554		561.501	0.035	569.251	0.069
554.25		561.751	0.035	569.501	0.07
554.5		562.002	0.032	569.751	0.065
554.75		562.251	0.036	570.001	0.068
555		562.501	0.032	570.251	0.064
555.437		562.751	0.031	570.501	0.063
555.559		563.001	0.031	570.751	0.071
555.75		563.251	0.03	571.001	0.065
556		563.501	0.032	571.251	0.066
556.25		563.751	0.034	571.501	0.068
556.5		564.001	0.03	571.939	0.064
556.75		564.251	0.027	572.062	0.066
557		564.501	0.033	572.251	0.067
557.25		564.751	0.035	572.501	0.063
557.5		565.001	0.032	572.751	0.065
557.75		565.251	0.029	573.001	0.063
558		565.501	0.029	573.251	0.067
558.25		565.751	0.032	573.501	0.065
558.5		566.001	0.029	573.751	0.07
558.75		566.251	0.033	574.001	0.067
559		566.501	0.029	574.251	0.07
559.25		566.751	0.026	574.501	0.067
559.5		567.001	0.03	574.751	0.062
559.75		567.251	0.026	575.001	0.065
560		567.501	0.028	575.251	0.066
560.436		567.946	0.033	575.501	0.067
560.558		568.069	0.028	575.751	0.068
560.75		568.251	0.025	576.001	0.067
561		568.501	0.032	576.251	0.072
561.25		568.751	0.027	576.501	0.072
561.5		569.001	0.027	576.938	0.066
561.75		569.251	0.03	577.06	0.068
562		569.501	0.03	577.251	0.068
562.25		569.751	0.03	577.501	0.067
562.5		570.001	0.026	577.751	0.072
562.75		570.251	0.026	578.001	0.064
563		570.501	0.027	578.251	0.073
563.25		570.751	0.032	578.501	0.074
563.5		571.001	0.026	578.751	0.072
563.75		571.251	0.031	579.001	0.07
564		571.501	0.031	579.251	0.072
564.25		571.751	0.033	579.501	0.063
564.5		572.001	0.026	579.751	0.066
564.75		572.251	0.029	580.001	0.062
565		572.501	0.028	580.251	0.071
565.435		572.946	0.029	580.501	0.066
565.558		573.069	0.03	580.751	0.068
565.75		573.251	0.026	581.001	0.068
566		573.501	0.03	581.251	0.066
566.25		573.751	0.028	581.501	0.064
566.5		574.001	0.036	581.938	0.067
566.75		574.251	0.031	582.06	0.068
567		574.501	0.032	582.251	0.071
567.25		574.751	0.03	582.501	0.067
567.5		575.001	0.031	582.751	0.071
567.75		575.251	0.029	583.001	0.069

MW-161-4

Falling Head Test 1	
Elapsed Time	DTW Deviation
568	
568.25	
568.5	
568.75	
569	
569.25	
569.5	
569.75	
570	
570.25	
570.5	
570.75	
571	
571.25	
571.5	
571.75	
572	
572.25	
572.5	
572.75	
573	
573.25	
573.5	
573.75	
574	
574.25	
574.5	
574.75	
575	
575.25	
575.5	
575.75	
576	
576.25	

Rising Head Test 1	
Elapsed Time	DTW Deviation
575.501	0.029
575.751	0.027
576.001	0.028
576.251	0.031
576.501	0.029
576.751	0.028
577.001	0.032
577.251	0.026
577.501	0.029
577.945	0.027
578.069	0.028
578.251	0.032
578.501	0.027
578.751	0.029
579.001	0.027
579.251	0.035
579.501	0.028
579.751	0.039
580.001	0.029
580.251	0.028
580.501	0.033
580.751	0.028
581.001	0.03
581.251	0.029
581.501	0.029
581.751	0.03
582.001	0.028
582.251	0.031
582.501	0.028
582.946	0.03
583.069	0.028
583.251	0.033
583.501	0.031
583.751	0.034
584.001	0.031
584.251	0.032
584.501	0.031
584.751	0.028
585.001	0.033
585.251	0.037
585.501	0.027
585.751	0.033
586.001	0.024
586.251	0.031
586.501	0.032
586.751	0.03
587.001	0.03
587.251	0.032
587.501	0.03
587.946	0.032
588.069	0.03
588.251	0.03
588.501	0.033
588.751	0.034
589.001	0.037
589.251	0.03
589.501	0.031
589.751	0.033
590.001	0.033
590.251	0.032
590.501	0.027
590.751	0.034
591.001	0.034
591.251	0.035
591.501	0.027
591.751	0.033
592.001	0.03
592.251	0.031
592.501	0.03
592.945	0.027
593.069	0.029

Rising Head Test 2	
Elapsed Time	DTW Deviation
583.251	0.069
583.501	0.071
583.751	0.068
584.001	0.068
584.251	0.068
584.501	0.065
584.751	0.071
585.001	0.068
585.251	0.066
585.501	0.069
585.751	0.067
586.001	0.069
586.251	0.065
586.501	0.071
586.938	0.069
587.06	0.066
587.251	0.069
587.501	0.066
587.751	0.07
588.001	0.065
588.251	0.071
588.501	0.066
588.751	0.067
589.001	0.071
589.251	0.067
589.501	0.064
589.751	0.066
590.001	0.072
590.251	0.068
590.501	0.067
590.751	0.064
591.001	0.065
591.251	0.065
591.501	0.062
591.939	0.066
592.062	0.069
592.251	0.064
592.501	0.07
592.751	0.069
593.001	0.066
593.251	0.07
593.501	0.058
593.751	0.074
594.001	0.071
594.251	0.071
594.501	0.071
594.751	0.076
595.001	0.069
595.251	0.075
595.501	0.072
595.751	0.077
596.001	0.075
596.251	0.073
596.501	0.076
596.937	0.083
597.06	0.074
597.251	0.071
597.501	0.074
597.751	0.068
598.001	0.072
598.251	0.074
598.501	0.068
598.751	0.071
599.001	0.074
599.251	0.077
599.501	0.072
599.751	0.074
600.001	0.075
600.251	0.066
600.501	0.072
600.751	0.078

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		593.251	0.032	601.001	0.075
		593.501	0.03	601.251	0.066
		593.751	0.034	601.501	0.07
		594.001	0.029	601.937	0.065
		594.251	0.032	602.06	0.066
		594.501	0.03	602.251	0.073
		594.751	0.029	602.501	0.078
		595.001	0.032	602.751	0.078
		595.251	0.029	603.001	0.068
		595.501	0.028	603.251	0.073
		595.751	0.03	603.501	0.075
		596.001	0.035	603.751	0.076
		596.251	0.027	604.001	0.074
		596.501	0.034	604.251	0.068
		596.751	0.028	604.501	0.067
		597.001	0.031	604.751	0.07
		597.251	0.029	605.001	0.074
		597.501	0.031	605.251	0.072
		598.034	0.027	605.501	0.071
		598.156	0.022	605.751	0.072
		598.278	0.028	606.001	0.07
		598.501	0.034	606.251	0.078
		598.751	0.039	606.501	0.067
		599.001	0.033	606.937	0.064
		599.251	0.032	607.061	0.074
		599.501	0.028	607.251	0.068
		599.751	0.037	607.501	0.076
		600.001	0.032	607.751	0.069
		600.251	0.032	608.001	0.067
		600.501	0.028	608.251	0.069
		600.751	0.035	608.501	0.068
		601.001	0.036	608.751	0.072
		601.251	0.03	609.001	0.072
		601.501	0.034	609.251	0.072
		601.751	0.025	609.501	0.067
		602.001	0.035	609.751	0.081
		602.251	0.029	610.001	0.073
		602.501	0.026	610.251	0.068
		602.945	0.037	610.501	0.072
		603.069	0.029	610.751	0.073
		603.251	0.026	611.001	0.07
		603.501	0.033	611.251	0.069
		603.751	0.034	611.501	0.069
		604.001	0.026	612.624	0.068
		604.251	0.03	612.953	0.079
		604.501	0.032	613.182	0.071
		604.751	0.031	613.304	0.081
		605.001	0.033	613.426	0.076
		605.251	0.032	613.549	0.072
		605.501	0.029	613.672	0.079
		605.751	0.033	613.795	0.072
		606.001	0.029	613.917	0.069
		606.251	0.03	614.039	0.069
		606.501	0.032	614.251	0.067
		606.751	0.032	614.501	0.073
		607.001	0.031	614.751	0.076
		607.251	0.029	615.001	0.076
		607.501	0.028	615.251	0.072
		607.945	0.032	615.501	0.078
		608.074	0.029	615.751	0.073
		608.251	0.032	616.001	0.073
		608.501	0.031	616.251	0.077
		608.751	0.031	616.501	0.074
		609.001	0.032	616.946	0.074
		609.251	0.03	617.069	0.079
		609.501	0.029	617.251	0.072
		609.751	0.03	617.501	0.076
		610.001	0.035	617.751	0.066
		610.251	0.029	618.001	0.071
		610.501	0.024	618.251	0.071
		610.751	0.034	618.501	0.075

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		611.001	0.033	618.751	0.068
		611.251	0.028	619.002	0.068
		611.501	0.027	619.251	0.072
		611.751	0.033	619.501	0.076
		612.001	0.033	619.751	0.076
		612.251	0.034	620.001	0.075
		612.501	0.032	620.251	0.074
		612.945	0.03	620.501	0.069
		613.069	0.03	620.751	0.073
		613.251	0.034	621.001	0.068
		613.501	0.033	621.251	0.074
		613.751	0.035	621.501	0.073
		614.001	0.025	621.945	0.074
		614.251	0.031	622.067	0.068
		614.501	0.031	622.251	0.07
		614.751	0.03	622.501	0.071
		615.001	0.03	622.751	0.071
		615.251	0.029	623.001	0.069
		615.501	0.027	623.251	0.07
		615.751	0.025	623.501	0.07
		616.001	0.027	623.751	0.074
		616.251	0.026	624.001	0.071
		616.501	0.032	624.251	0.066
		616.751	0.027	624.501	0.079
		617.001	0.032	624.751	0.06
		617.251	0.028	625.001	0.075
		617.501	0.028	625.251	0.075
		617.945	0.027	625.501	0.071
		618.068	0.024	625.751	0.073
		618.251	0.024	626.001	0.071
		618.501	0.022	626.251	0.066
		618.751	0.026	626.501	0.072
		619.001	0.031	626.945	0.074
		619.251	0.025	627.067	0.07
		619.501	0.026	627.251	0.069
		619.751	0.028	627.501	0.071
		620.001	0.026	627.751	0.065
		620.251	0.028	628.001	0.071
		620.501	0.02	628.251	0.071
		620.751	0.026	628.501	0.071
		621.001	0.026	628.751	0.068
		621.251	0.031	629.001	0.073
		621.501	0.031	629.251	0.073
		621.751	0.031	629.501	0.061
		622.001	0.027	629.751	0.062
		622.251	0.027	630.001	0.069
		622.501	0.026	630.251	0.072
		622.944	0.029	630.501	0.068
		623.067	0.026	630.751	0.065
		623.251	0.03	631.001	0.072
		623.501	0.033	631.251	0.066
		623.751	0.029	631.501	0.073
		624.001	0.029	631.945	0.071
		624.251	0.034	632.068	0.072
		624.501	0.032	632.251	0.071
		624.751	0.031	632.501	0.062
		625.001	0.032	632.751	0.071
		625.251	0.026	633.001	0.071
		625.501	0.031	633.251	0.072
		625.751	0.03	633.501	0.067
		626.001	0.028	633.751	0.075
		626.251	0.033	634.001	0.072
		626.501	0.027	634.251	0.071
		626.751	0.035	634.501	0.067
		627.001	0.033	634.751	0.07
		627.251	0.034	635.001	0.072
		627.501	0.027	635.251	0.068
		627.944	0.03	635.501	0.073
		628.067	0.029	635.751	0.069
		628.258	0.026	636.001	0.073
		628.501	0.027	636.251	0.073

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		628.751	0.031	636.501	0.072
		629.001	0.029	636.945	0.065
		629.251	0.028	637.067	0.075
		629.501	0.03	637.251	0.069
		629.751	0.032	637.501	0.074
		630.001	0.03	637.751	0.069
		630.251	0.027	638.001	0.068
		630.501	0.029	638.251	0.065
		630.751	0.032	638.501	0.072
		631.001	0.022	638.751	0.072
		631.251	0.03	639.001	0.073
		631.501	0.029	639.251	0.071
		631.751	0.028	639.501	0.07
		632.001	0.034	639.751	0.069
		632.251	0.022	640.001	0.077
		632.501	0.024	640.251	0.067
		632.944	0.024	640.501	0.073
		633.067	0.028	640.751	0.067
		633.251	0.027	641.001	0.071
		633.501	0.023	641.251	0.074
		633.751	0.03	641.501	0.065
		634.001	0.025	641.945	0.071
		634.251	0.028	642.067	0.075
		634.501	0.026	642.251	0.074
		634.751	0.031	642.501	0.072
		635.001	0.029	642.751	0.073
		635.251	0.028	643.001	0.065
		635.501	0.031	643.251	0.077
		635.751	0.031	643.501	0.068
		636.001	0.032	643.751	0.074
		636.251	0.029	644.001	0.066
		636.501	0.027	644.251	0.077
		636.751	0.021	644.501	0.071
		637.001	0.028	644.751	0.076
		637.251	0.026	645.001	0.07
		637.501	0.031	645.251	0.08
		637.943	0.025	645.501	0.065
		638.066	0.033	645.751	0.069
		638.251	0.031	646.001	0.076
		638.501	0.029	646.251	0.069
		638.751	0.033	646.501	0.075
		639.001	0.033	646.945	0.07
		639.251	0.028	647.067	0.072
		639.501	0.029	647.251	0.067
		639.751	0.025	647.501	0.07
		640.001	0.032	647.751	0.075
		640.251	0.024	648.001	0.075
		640.501	0.02	648.251	0.068
		640.751	0.029	648.501	0.072
		641.001	0.032	648.751	0.072
		641.251	0.028	649.001	0.064
		641.501	0.023	649.251	0.077
		641.751	0.03	649.501	0.068
		642.001	0.027	649.751	0.063
		642.251	0.035	650.001	0.078
		642.501	0.028	650.251	0.072
		642.943	0.027	650.501	0.069
		643.066	0.031	650.751	0.076
		643.251	0.031	651.001	0.075
		643.501	0.031	651.251	0.073
		643.751	0.033	651.501	0.071
		644.001	0.028	651.945	0.074
		644.251	0.031	652.067	0.072
		644.501	0.025	652.251	0.073
		644.751	0.031	652.501	0.071
		645.001	0.037	652.751	0.065
		645.251	0.033	653.001	0.064
		645.501	0.033	653.251	0.066
		645.751	0.033	653.501	0.069
		646.001	0.033	653.751	0.07
		646.251	0.026	654.001	0.062

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		646.501	0.03	654.251	0.069
		646.751	0.035	654.501	0.068
		647.001	0.028	654.751	0.067
		647.251	0.028	655.001	0.064
		647.501	0.024	655.251	0.074
		647.943	0.019	655.501	0.072
		648.066	0.027	655.751	0.065
		648.251	0.03	656.001	0.068
		648.501	0.029	656.251	0.069
		648.751	0.026	656.501	0.064
		649.001	0.028	656.945	0.063
		649.251	0.036	657.067	0.066
		649.501	0.026	657.251	0.067
		649.751	0.028	657.501	0.07
		650.001	0.026	657.751	0.07
		650.251	0.026	658.001	0.069
		650.501	0.028	658.251	0.066
		650.751	0.027	658.501	0.067
		651.001	0.03	658.751	0.067
		651.251	0.028	659.001	0.068
		651.501	0.022	659.251	0.064
		651.751	0.03	659.501	0.069
		652.001	0.03	659.751	0.067
		652.251	0.03	660.001	0.07
		652.501	0.029	660.251	0.073
		652.943	0.03	660.501	0.064
		653.066	0.027	660.751	0.063
		653.251	0.024	661.001	0.069
		653.501	0.031	661.251	0.068
		653.751	0.031	661.501	0.069
		654.001	0.025	661.946	0.066
		654.251	0.03	662.069	0.066
		654.501	0.029	662.251	0.067
		654.751	0.033	662.501	0.071
		655.001	0.025	662.751	0.07
		655.251	0.025	663.001	0.071
		655.501	0.029	663.251	0.066
		655.751	0.026	663.501	0.065
		656.001	0.028	663.751	0.067
		656.251	0.025	664.001	0.068
		656.501	0.031	664.251	0.066
		656.751	0.027	664.501	0.068
		657.001	0.028	664.751	0.068
		657.251	0.02	665.001	0.072
		657.501	0.024	665.251	0.074
		657.942	0.027	665.501	0.072
		658.065	0.027	665.751	0.067
		658.251	0.028	666.001	0.071
		658.501	0.026	666.251	0.068
		658.751	0.028	666.501	0.07
		659.001	0.028	666.945	0.068
		659.251	0.021	667.067	0.069
		659.501	0.022	667.251	0.068
		659.751	0.029	667.501	0.072
		660.001	0.029	667.751	0.07
		660.251	0.027	668.001	0.07
		660.501	0.029	668.251	0.069
		660.751	0.03	668.501	0.073
		661.001	0.025	668.751	0.071
		661.251	0.037	669.001	0.068
		661.501	0.028	669.251	0.068
		661.751	0.035	669.501	0.068
		662.001	0.029	669.751	0.069
		662.251	0.027	670.001	0.068
		662.501	0.029	670.251	0.069
		662.942	0.027	670.501	0.069
		663.064	0.027	670.751	0.067
		663.251	0.026	671.001	0.071
		663.501	0.029	671.251	0.071
		663.751	0.022	671.501	0.067
		664.001	0.025	671.945	0.07

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		664.251	0.028	672.067	0.072
		664.501	0.022	672.251	0.07
		664.751	0.02	672.501	0.073
		665.001	0.027	672.751	0.066
		665.251	0.023	673.001	0.068
		665.501	0.027	673.251	0.07
		665.751	0.027	673.501	0.068
		666.001	0.028	673.751	0.059
		666.251	0.027	674.001	0.067
		666.501	0.032	674.251	0.073
		666.751	0.022	674.501	0.071
		667.001	0.019	674.751	0.069
		667.251	0.028	675.001	0.075
		667.501	0.028	675.251	0.063
		667.941	0.025	675.501	0.069
		668.075	0.027	675.751	0.071
		668.251	0.026	676.001	0.065
		668.501	0.033	676.251	0.065
		668.751	0.029	676.501	0.073
		669.001	0.026	676.945	0.067
		669.251	0.028	677.068	0.067
		669.501	0.024	677.251	0.068
		669.751	0.028	677.501	0.067
		670.001	0.032	677.751	0.072
		670.251	0.03	678.001	0.071
		670.501	0.033	678.251	0.066
		670.751	0.031	678.501	0.069
		671.001	0.027	678.751	0.067
		671.251	0.025	679.001	0.065
		671.501	0.03	679.251	0.066
		671.751	0.028	679.501	0.071
		672.001	0.029	679.751	0.067
		672.251	0.029	680.001	0.07
		672.501	0.029	680.251	0.063
		672.941	0.032	680.501	0.067
		673.064	0.025	680.751	0.066
		673.251	0.026	681.001	0.065
		673.501	0.022	681.251	0.073
		673.751	0.031	681.501	0.062
		674.001	0.028	681.945	0.069
		674.251	0.024	682.067	0.072
		674.501	0.029	682.251	0.07
		674.751	0.025	682.501	0.068
		675.001	0.024	682.751	0.071
		675.251	0.028	683.001	0.067
		675.501	0.025	683.251	0.067
		675.751	0.023	683.501	0.068
		676.001	0.026	683.751	0.067
		676.251	0.025	684.001	0.072
		676.501	0.026	684.251	0.071
		676.751	0.019	684.501	0.064
		677.001	0.022	684.751	0.071
		677.251	0.028	685.001	0.067
		677.501	0.033	685.251	0.069
		677.941	0.031	685.501	0.068
		678.063	0.029	685.751	0.064
		678.251	0.028	686.001	0.065
		678.501	0.025	686.251	0.066
		678.751	0.025	686.501	0.074
		679.001	0.024	686.945	0.071
		679.251	0.024	687.068	0.068
		679.501	0.028	687.251	0.073
		679.751	0.029	687.501	0.068
		680.001	0.026	687.751	0.069
		680.251	0.025	688.001	0.067
		680.501	0.025	688.251	0.064
		680.751	0.023	688.501	0.069
		681.001	0.032	688.751	0.067
		681.251	0.027	689.001	0.069
		681.501	0.023	689.251	0.068
		681.751	0.021	689.501	0.067

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		682.001	0.03	689.751	0.066
		682.251	0.027	690.001	0.067
		682.501	0.023	690.251	0.065
		682.94	0.025	690.501	0.067
		683.063	0.026	690.751	0.069
		683.251	0.031	691.001	0.069
		683.501	0.024	691.251	0.07
		683.751	0.023	691.501	0.065
		684.001	0.032	691.945	0.067
		684.251	0.029	692.067	0.066
		684.501	0.027	692.251	0.063
		684.751	0.025	692.501	0.071
		685.001	0.026	692.751	0.065
		685.251	0.025	693.001	0.069
		685.501	0.024	693.251	0.064
		685.751	0.024	693.501	0.069
		686.001	0.029	693.751	0.068
		686.251	0.029	694.001	0.068
		686.501	0.028	694.251	0.067
		686.751	0.032	694.501	0.069
		687.001	0.03	694.751	0.073
		687.251	0.028	695.001	0.066
		687.501	0.025	695.251	0.075
		687.94	0.032	695.501	0.067
		688.062	0.026	695.751	0.07
		688.251	0.026	696.001	0.07
		688.501	0.032	696.251	0.068
		688.751	0.031	696.501	0.075
		689.001	0.031	696.945	0.066
		689.251	0.029	697.067	0.066
		689.501	0.026	697.251	0.067
		689.751	0.031	697.501	0.069
		690.001	0.033	697.751	0.068
		690.251	0.022	698.001	0.059
		690.501	0.031	698.251	0.068
		690.751	0.032	698.501	0.069
		691.001	0.029	698.751	0.066
		691.251	0.03	699.001	0.069
		691.501	0.019	699.251	0.065
		691.751	0.022	699.501	0.07
		692.001	0.028	699.751	0.073
		692.251	0.026	700.001	0.073
		692.501	0.026	700.251	0.068
		692.94	0.029	700.501	0.066
		693.062	0.026	700.751	0.07
		693.251	0.029	701.001	0.069
		693.501	0.028	701.251	0.063
		693.751	0.025	701.501	0.068
		694.001	0.025	701.945	0.068
		694.251	0.025	702.067	0.061
		694.501	0.023	702.251	0.068
		694.751	0.027	702.501	0.072
		695.001	0.022	702.751	0.068
		695.251	0.029	703.001	0.065
		695.501	0.026	703.251	0.07
		695.751	0.022	703.501	0.068
		696.001	0.023	703.751	0.071
		696.251	0.021	704.001	0.069
		696.501	0.028	704.251	0.061
		696.751	0.03	704.501	0.066
		697.001	0.025	704.751	0.062
		697.251	0.025	705.001	0.069
		697.501	0.03	705.251	0.067
		697.939	0.026	705.501	0.068
		698.061	0.026	705.751	0.071
		698.251	0.027	706.001	0.066
		698.501	0.025	706.251	0.068
		698.751	0.031	706.501	0.066
		699.001	0.027	706.945	0.065
		699.251	0.03	707.067	0.068
		699.501	0.025	707.251	0.07

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		699.751	0.027	707.501	0.067
		700.001	0.026	707.751	0.068
		700.251	0.031	708.001	0.068
		700.501	0.025	708.251	0.073
		700.751	0.023	708.501	0.069
		701.001	0.027	708.751	0.064
		701.251	0.028	709.001	0.066
		701.501	0.024	709.251	0.067
		701.751	0.026	709.501	0.065
		702.001	0.032	709.751	0.068
		702.251	0.018	710.001	0.07
		702.501	0.029	710.251	0.063
		702.939	0.023	710.501	0.07
		703.061	0.024	710.751	0.066
		703.251	0.027	711.001	0.067
		703.501	0.03	711.251	0.068
		703.751	0.026	711.501	0.07
		704.001	0.03	711.945	0.068
		704.251	0.02	712.067	0.063
		704.501	0.028	712.251	0.069
		704.751	0.031	712.501	0.07
		705.001	0.027	712.751	0.07
		705.251	0.025	713.001	0.06
		705.501	0.03	713.251	0.069
		705.751	0.026	713.501	0.069
		706.001	0.029	713.751	0.071
		706.251	0.029	714.001	0.068
		706.501	0.03	714.251	0.068
		706.751	0.021	714.501	0.065
		707.001	0.031	714.751	0.065
		707.251	0.028	715.001	0.072
		707.501	0.026	715.251	0.059
		707.939	0.026	715.501	0.067
		708.061	0.02	715.751	0.065
		708.251	0.028	716.001	0.063
		708.501	0.026	716.251	0.067
		708.751	0.02	716.501	0.075
		709.001	0.016	716.945	0.066
		709.251	0.029	717.067	0.068
		709.501	0.024	717.251	0.066
		709.751	0.026	717.501	0.066
		710.001	0.028	717.751	0.071
		710.251	0.031	718.001	0.067
		710.501	0.027	718.251	0.071
		710.751	0.029	718.501	0.062
		711.001	0.026	718.751	0.063
		711.251	0.032	719.001	0.063
		711.501	0.03	719.251	0.072
		711.751	0.026	719.501	0.062
		712.001	0.026	719.751	0.066
		712.251	0.029	720.001	0.063
		712.501	0.027	720.251	0.064
		712.938	0.027	720.501	0.068
		713.06	0.029	720.751	0.068
		713.251	0.027	721.001	0.066
		713.501	0.026	721.251	0.065
		713.751	0.031	721.501	0.065
		714.001	0.029	721.945	0.066
		714.251	0.026	722.067	0.065
		714.501	0.028	722.251	0.066
		714.751	0.028	722.501	0.065
		715.001	0.034	722.751	0.068
		715.251	0.032	723.001	0.074
		715.501	0.029	723.251	0.066
		715.751	0.028	723.501	0.069
		716.001	0.028	723.751	0.069
		716.251	0.031	724.001	0.072
		716.501	0.025	724.251	0.069
		716.751	0.028	724.501	0.063
		717.001	0.028	724.751	0.067
		717.251	0.027	725.001	0.067

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		717.501	0.031	725.251	0.072
		717.938	0.025	725.501	0.067
		718.06	0.027	725.751	0.069
		718.251	0.028	726.001	0.068
		718.501	0.029	726.251	0.073
		718.751	0.028	726.501	0.074
		719.001	0.024	726.945	0.066
		719.251	0.027	727.067	0.069
		719.501	0.029	727.251	0.072
		719.751	0.023	727.501	0.074
		720.001	0.03	727.751	0.064
		720.251	0.022	728.001	0.076
		720.501	0.021	728.251	0.068
		720.751	0.026	728.501	0.064
		721.001	0.028	728.751	0.062
		721.251	0.031	729.001	0.068
		721.501	0.029	729.251	0.071
		721.751	0.025	729.501	0.068
		722.001	0.029	729.751	0.066
		722.251	0.027	730.001	0.068
		722.501	0.022	730.251	0.065
		722.939	0.017	730.501	0.067
		723.061	0.025	730.751	0.066
		723.251	0.026	731.001	0.063
		723.501	0.029	731.251	0.067
		723.751	0.024	731.501	0.064
		724.001	0.026	731.947	0.071
		724.251	0.026	732.069	0.064
		724.501	0.029	732.251	0.069
		724.751	0.03	732.501	0.064
		725.001	0.028	732.751	0.071
		725.251	0.019	733.001	0.065
		725.501	0.029	733.251	0.067
		725.751	0.023	733.501	0.071
		726.001	0.029	733.751	0.065
		726.251	0.032	734.001	0.062
		726.501	0.027	734.251	0.065
		726.751	0.031	734.501	0.071
		727.001	0.031	734.751	0.066
		727.251	0.026	735.001	0.062
		727.501	0.025	735.251	0.067
		727.938	0.028	735.501	0.065
		728.06	0.025	735.751	0.066
		728.251	0.026	736.001	0.067
		728.501	0.027	736.251	0.063
		728.751	0.029	736.501	0.066
		729.001	0.029	736.945	0.067
		729.251	0.028	737.068	0.065
		729.501	0.033	737.251	0.065
		729.751	0.029	737.501	0.069
		730.001	0.027	737.751	0.072
		730.251	0.026	738.001	0.068
		730.501	0.028	738.251	0.069
		730.751	0.024	738.501	0.067
		731.001	0.028	738.751	0.071
		731.251	0.031	739.001	0.068
		731.501	0.029	739.251	0.071
		731.751	0.028	739.501	0.068
		732.001	0.026	739.751	0.07
		732.251	0.027	740.001	0.065
		732.501	0.029	740.251	0.072
		732.938	0.026	740.501	0.058
		733.06	0.027	740.751	0.064
		733.251	0.024	741.001	0.066
		733.501	0.028	741.251	0.069
		733.751	0.026	741.501	0.065
		734.001	0.024	741.945	0.075
		734.251	0.021	742.067	0.067
		734.501	0.026	742.251	0.066
		734.751	0.03	742.501	0.065
		735.001	0.031	742.751	0.068

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		735.251	0.024	743.001	0.071
		735.501	0.03	743.251	0.069
		735.751	0.034	743.501	0.064
		736.001	0.024	743.751	0.061
		736.251	0.027	744.001	0.067
		736.501	0.029	744.251	0.067
		736.751	0.031	744.501	0.066
		737.001	0.026	744.751	0.061
		737.251	0.032	745.001	0.07
		737.501	0.024	745.251	0.071
		737.937	0.022	745.501	0.067
		738.06	0.027	745.751	0.068
		738.251	0.026	746.001	0.068
		738.501	0.025	746.251	0.072
		738.751	0.03	746.501	0.067
		739.001	0.027	746.945	0.064
		739.251	0.029	747.068	0.069
		739.501	0.025	747.251	0.066
		739.751	0.027	747.501	0.07
		740.001	0.027	747.751	0.069
		740.251	0.028	748.001	0.073
		740.501	0.026	748.251	0.07
		740.751	0.027	748.501	0.065
		741.001	0.026	748.751	0.073
		741.251	0.029	749.001	0.076
		741.501	0.027	749.251	0.066
		741.751	0.023	749.501	0.07
		742.001	0.031	749.751	0.064
		742.251	0.029	750.001	0.065
		742.501	0.024	750.251	0.069
		742.936	0.022	750.501	0.066
		743.058	0.031	750.751	0.069
		743.251	0.021	751.001	0.063
		743.501	0.022	751.251	0.073
		743.751	0.025	751.501	0.07
		744.001	0.028	751.945	0.062
		744.251	0.024	752.067	0.061
		744.501	0.026	752.251	0.062
		744.751	0.023	752.501	0.065
		745.001	0.024	752.751	0.077
		745.251	0.025	753.001	0.07
		745.501	0.024	753.251	0.067
		745.751	0.027	753.501	0.068
		746.001	0.029	753.751	0.062
		746.251	0.03	754.001	0.063
		746.501	0.025	754.251	0.068
		746.751	0.028	754.501	0.069
		747.001	0.029	754.751	0.068
		747.251	0.026	755.001	0.069
		747.501	0.026	755.251	0.071
		748.624	0.025	755.501	0.066
		748.952	0.026	755.751	0.068
		749.18	0.028	756.001	0.066
		749.309	0.026	756.251	0.065
		749.44	0.026	756.501	0.068
		749.562	0.031	756.944	0.066
		749.684	0.026	757.066	0.064
		749.807	0.022	757.251	0.072
		749.929	0.027	757.501	0.065
		750.053	0.022	757.751	0.065
		750.251	0.025	758.001	0.068
		750.501	0.022	758.251	0.067
		750.751	0.023	758.501	0.074
		751.001	0.025	758.751	0.068
		751.251	0.023	759.001	0.068
		751.501	0.027	759.251	0.067
		751.751	0.024	759.501	0.065
		752.001	0.03	759.751	0.072
		752.251	0.028	760.001	0.067
		752.501	0.029	760.251	0.068
		752.946	0.026	760.501	0.066

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		753.069	0.021	760.751	0.065
		753.251	0.028	761.001	0.064
		753.501	0.025	761.251	0.067
		753.751	0.027	761.501	0.067
		754.001	0.033	761.944	0.07
		754.251	0.027	762.066	0.065
		754.501	0.026	762.251	0.069
		754.751	0.028	762.501	0.067
		755.001	0.026	762.751	0.064
		755.251	0.023	763.001	0.063
		755.501	0.026	763.251	0.061
		755.751	0.02	763.501	0.068
		756.001	0.03	763.751	0.065
		756.251	0.027	764.001	0.067
		756.501	0.025	764.251	0.065
		756.751	0.03	764.501	0.07
		757.001	0.027	764.751	0.063
		757.251	0.023	765.001	0.06
		757.501	0.026	765.251	0.066
		757.946	0.031	765.501	0.068
		758.069	0.029	765.751	0.069
		758.251	0.031	766.001	0.067
		758.501	0.024	766.251	0.067
		758.751	0.031	766.501	0.066
		759.001	0.029	766.943	0.07
		759.251	0.027	767.066	0.066
		759.501	0.031	767.251	0.06
		759.751	0.029	767.501	0.065
		760.001	0.03	767.751	0.063
		760.251	0.027	768.001	0.069
		760.501	0.026	768.251	0.064
		760.751	0.029	768.501	0.069
		761.001	0.031	768.751	0.061
		761.251	0.031	769.001	0.066
		761.501	0.029	769.251	0.067
		761.751	0.028	769.501	0.07
		762.001	0.036	769.751	0.075
		762.251	0.027	770.001	0.065
		762.501	0.024	770.251	0.068
		762.946	0.028	770.501	0.072
		763.069	0.027	770.751	0.07
		763.251	0.023	771.001	0.07
		763.501	0.033	771.251	0.068
		763.751	0.024	771.501	0.072
		764.001	0.035	771.943	0.065
		764.251	0.024	772.065	0.067
		764.501	0.024	772.251	0.07
		764.751	0.026	772.501	0.069
		765.001	0.026	772.751	0.063
		765.251	0.027	773.001	0.07
		765.501	0.028	773.251	0.069
		765.751	0.029	773.501	0.072
		766.001	0.026	773.751	0.067
		766.251	0.028	774.001	0.071
		766.501	0.021	774.251	0.063
		766.751	0.022	774.501	0.063
		767.001	0.027	774.751	0.063
		767.251	0.032	775.001	0.067
		767.501	0.023	775.251	0.067
		767.946	0.025	775.501	0.068
		768.069	0.021	775.751	0.064
		768.251	0.022	776.001	0.068
		768.501	0.029	776.251	0.07
		768.751	0.027	776.501	0.07
		769.001	0.025	776.943	0.065
		769.251	0.032	777.065	0.067
		769.501	0.029	777.251	0.063
		769.751	0.026	777.501	0.064
		770.001	0.027	777.751	0.068
		770.251	0.031	778.001	0.068
		770.501	0.026	778.251	0.068

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		770.751	0.026	778.501	0.068
		771.001	0.032	778.751	0.066
		771.251	0.027	779.001	0.073
		771.501	0.029	779.251	0.07
		771.751	0.029	779.501	0.072
		772.001	0.027	779.751	0.066
		772.251	0.028	780.001	0.07
		772.501	0.027	780.251	0.064
		772.946	0.029	780.501	0.07
		773.069	0.024	780.751	0.071
		773.251	0.027	781.001	0.068
		773.501	0.031	781.251	0.064
		773.751	0.025	781.501	0.067
		774.001	0.031	781.943	0.066
		774.251	0.029	782.065	0.069
		774.501	0.026	782.251	0.062
		774.751	0.028	782.501	0.067
		775.001	0.024	782.751	0.071
		775.251	0.025	783.001	0.062
		775.501	0.027	783.251	0.061
		775.751	0.023	783.501	0.07
		776.001	0.028	783.751	0.065
		776.251	0.024	784.001	0.068
		776.501	0.028	784.251	0.069
		776.751	0.027	784.501	0.069
		777.001	0.024	784.751	0.066
		777.251	0.029	785.001	0.068
		777.501	0.03	785.251	0.066
		777.946	0.022	785.501	0.074
		778.069	0.025	785.751	0.071
		778.251	0.03	786.001	0.066
		778.501	0.026	786.251	0.068
		778.751	0.023	786.501	0.068
		779.001	0.028	786.943	0.071
		779.251	0.034	787.066	0.065
		779.501	0.03	787.251	0.068
		779.751	0.029	787.501	0.069
		780.001	0.028	787.751	0.067
		780.251	0.032	788.001	0.068
		780.501	0.03	788.251	0.07
		780.751	0.024	788.501	0.069
		781.001	0.023	788.751	0.069
		781.251	0.023	789.001	0.066
		781.501	0.026	789.251	0.07
		781.751	0.027	789.501	0.073
		782.001	0.032	789.751	0.069
		782.251	0.032	790.001	0.071
		782.501	0.025	790.251	0.068
		782.946	0.028	790.501	0.062
		783.069	0.021	790.751	0.065
		783.251	0.026	791.001	0.067
		783.501	0.022	791.251	0.067
		783.751	0.025	791.501	0.073
		784.001	0.029	791.942	0.065
		784.251	0.026	792.065	0.069
		784.501	0.03	792.251	0.066
		784.751	0.028	792.501	0.07
		785.001	0.026	792.751	0.063
		785.251	0.03	793.001	0.073
		785.501	0.024	793.251	0.064
		785.751	0.026	793.501	0.071
		786.001	0.029	793.751	0.069
		786.251	0.024	794.001	0.067
		786.501	0.026	794.251	0.07
		786.751	0.026	794.501	0.069
		787.001	0.029	794.751	0.071
		787.251	0.029	795.001	0.073
		787.501	0.026	795.251	0.069
		787.946	0.024	795.501	0.072
		788.069	0.031	795.751	0.068
		788.251	0.023	796.001	0.068

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		788.501	0.021	796.251	0.068
		788.751	0.024	796.501	0.069
		789.001	0.023	796.942	0.064
		789.251	0.025	797.064	0.065
		789.501	0.025	797.251	0.069
		789.751	0.03	797.501	0.065
		790.001	0.025	797.751	0.069
		790.251	0.029	798.001	0.072
		790.501	0.026	798.251	0.073
		790.751	0.03	798.501	0.065
		791.001	0.027	798.751	0.072
		791.251	0.022	799.001	0.071
		791.501	0.031	799.251	0.067
		791.751	0.029	799.501	0.065
		792.001	0.029	799.751	0.067
		792.251	0.029	800.001	0.066
		792.501	0.024	800.251	0.073
		792.947	0.022	800.501	0.071
		793.069	0.03	800.751	0.066
		793.251	0.029	801.001	0.068
		793.501	0.026	801.251	0.066
		793.751	0.026	801.501	0.067
		794.001	0.026	801.942	0.071
		794.251	0.024	802.065	0.07
		794.501	0.024	802.251	0.06
		794.751	0.03	802.501	0.073
		795.001	0.028	802.751	0.065
		795.251	0.03	803.001	0.069
		795.501	0.029	803.251	0.071
		795.751	0.024	803.501	0.071
		796.001	0.024	803.751	0.069
		796.251	0.025	804.001	0.065
		796.501	0.026	804.251	0.071
		796.751	0.025	804.501	0.07
		797.001	0.021	804.751	0.066
		797.251	0.029	805.001	0.069
		797.501	0.029	805.251	0.07
		797.946	0.03	805.501	0.069
		798.069	0.027	805.751	0.068
		798.251	0.033	806.001	0.072
		798.501	0.026	806.251	0.068
		798.751	0.024	806.501	0.07
		799.001	0.029	806.942	0.064
		799.251	0.022	807.064	0.066
		799.501	0.03	807.251	0.067
		799.751	0.026	807.501	0.067
		800.001	0.021	807.751	0.071
		800.251	0.022	808.001	0.07
		800.501	0.037	808.251	0.067
		800.751	0.03	808.501	0.069
		801.001	0.03	808.751	0.065
		801.251	0.029	809.001	0.068
		801.501	0.028	809.251	0.072
		801.751	0.028	809.501	0.067
		802.001	0.023	809.751	0.065
		802.251	0.03	810.001	0.062
		802.501	0.028	810.251	0.063
		802.945	0.021	810.501	0.07
		803.068	0.025	810.751	0.069
		803.251	0.026	811.001	0.066
		803.501	0.029	811.251	0.065
		803.751	0.021	811.501	0.066
		804.001	0.027	811.941	0.069
		804.251	0.026	812.064	0.065
		804.501	0.026	812.251	0.065
		804.751	0.027	812.501	0.065
		805.001	0.029	812.751	0.065
		805.251	0.025	813.001	0.067
		805.501	0.03	813.251	0.06
		805.751	0.028	813.501	0.063
		806.001	0.027	813.751	0.069

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		806.251	0.025	814.001	0.068
		806.501	0.024	814.251	0.068
		806.751	0.025	814.501	0.063
		807.001	0.03	814.751	0.063
		807.251	0.028	815.001	0.068
		807.501	0.025	815.251	0.067
		807.946	0.031	815.501	0.062
		808.069	0.029	815.751	0.063
		808.251	0.025	816.001	0.069
		808.501	0.023	816.251	0.064
		808.751	0.027	816.501	0.069
		809.001	0.027	816.941	0.065
		809.251	0.024	817.064	0.065
		809.501	0.029	817.251	0.069
		809.751	0.026	817.501	0.068
		810.001	0.028	817.751	0.062
		810.251	0.032	818.001	0.068
		810.501	0.035	818.251	0.067
		810.751	0.029	818.501	0.068
		811.001	0.023	818.751	0.065
		811.251	0.03	819.001	0.071
		811.501	0.021	819.251	0.063
		811.751	0.023	819.501	0.067
		812.001	0.027	819.751	0.066
		812.251	0.027	820.001	0.064
		812.501	0.022	820.251	0.064
		812.945	0.026	820.501	0.064
		813.068	0.027	820.751	0.071
		813.251	0.03	821.001	0.065
		813.501	0.027	821.251	0.064
		813.751	0.032	821.501	0.064
		814.001	0.022	821.751	0.069
		814.251	0.028	822.001	0.07
		814.501	0.026	822.251	0.073
		814.751	0.024	822.501	0.072
		815.001	0.024	822.751	0.071
		815.251	0.027	823.001	0.065
		815.501	0.03	823.251	0.067
		815.751	0.027	823.501	0.07
		816.001	0.026	823.751	0.077
		816.251	0.023	824.001	0.073
		816.501	0.032	824.251	0.063
		816.751	0.026	824.501	0.068
		817.001	0.028	824.751	0.071
		817.251	0.025	825.001	0.066
		817.501	0.026	825.251	0.068
		817.945	0.022	825.501	0.065
		818.068	0.023	825.751	0.067
		818.251	0.026	826.001	0.07
		818.501	0.024	826.251	0.068
		818.751	0.023	826.501	0.066
		819.001	0.029	826.751	0.068
		819.251	0.03	827.001	0.069
		819.501	0.025	827.251	0.066
		819.751	0.026	827.501	0.068
		820.001	0.03	827.751	0.073
		820.251	0.028	828.001	0.068
		820.501	0.03	828.251	0.072
		820.751	0.029	828.501	0.069
		821.001	0.02	828.751	0.069
		821.251	0.028	829.001	0.07
		821.501	0.027	829.251	0.074
		821.751	0.029	829.501	0.073
		822.001	0.028	829.751	0.069
		822.251	0.023	830.001	0.072
		822.501	0.029	830.251	0.066
		822.945	0.021	830.501	0.075
		823.068	0.028	830.751	0.072
		823.251	0.026	831.001	0.069
		823.501	0.031	831.251	0.065
		823.751	0.026	831.501	0.07

MW-161-4

Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		824.001	0.026	831.751	0.063
		824.251	0.023	832.001	0.067
		824.501	0.026	832.251	0.071
		824.751	0.027	832.501	0.071
		825.001	0.022	832.751	0.071
		825.251	0.024	833.001	0.065
		825.501	0.026	833.251	0.067
		825.751	0.027	833.501	0.064
		826.001	0.03	833.751	0.074
		826.251	0.029	834.001	0.067
		826.501	0.025	834.251	0.07
		826.751	0.026	834.501	0.065
		827.001	0.028	834.751	0.066
		827.251	0.024	835.001	0.066
		827.501	0.025	835.251	0.067
		827.945	0.021	835.501	0.066
		828.068	0.028	835.751	0.064
		828.251	0.026	836.001	0.067
		828.501	0.02	836.251	0.065
		828.751	0.024	836.501	0.065
		829.001	0.021	836.751	0.064
		829.251	0.029	837.001	0.06
		829.501	0.025	837.251	0.064
		829.751	0.028	837.501	0.061
		830.001	0.03	837.751	0.062
		830.251	0.03	838.001	0.064
		830.501	0.024	838.251	0.061
		830.751	0.024	838.501	0.062
		831.001	0.025	838.751	0.069
		831.251	0.021	839.001	0.062
		831.501	0.02	839.251	0.062
		831.751	0.025	839.501	0.067
		832.001	0.028	839.751	0.061
		832.251	0.03	840.001	0.066
		832.501	0.024	840.251	0.069
		832.945	0.022	840.501	0.06
		833.068	0.032	840.751	0.062
		833.251	0.025		
		833.501	0.024		
		833.751	0.026		
		834.001	0.027		
		834.251	0.027		
		834.501	0.029		
		834.751	0.029		
		835.001	0.026		
		835.251	0.028		
		835.501	0.027		
		835.751	0.03		
		836.001	0.022		
		836.251	0.033		
		836.501	0.022		
		836.751	0.022		
		837.001	0.028		
		837.251	0.024		
		837.501	0.03		
		837.945	0.027		
		838.069	0.027		
		838.251	0.026		
		838.501	0.026		
		838.751	0.024		
		839.001	0.031		
		839.251	0.023		
		839.501	0.028		
		839.751	0.035		
		840.001	0.027		
		840.251	0.03		
		840.501	0.028		
		840.751	0.023		
		841.001	0.022		
		841.251	0.026		
		841.501	0.023		

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		841.751	0.027		
		842.001	0.023		
		842.251	0.026		
		842.501	0.027		
		842.946	0.025		
		843.07	0.03		
		843.251	0.026		
		843.501	0.026		
		843.751	0.026		
		844.001	0.024		
		844.251	0.023		
		844.501	0.026		
		844.751	0.024		
		845.001	0.026		
		845.251	0.028		
		845.501	0.029		
		845.751	0.027		
		846.001	0.025		
		846.251	0.03		
		846.501	0.026		
		846.751	0.028		
		847.001	0.027		
		847.251	0.027		
		847.501	0.03		
		847.946	0.024		
		848.07	0.026		
		848.251	0.024		
		848.501	0.029		
		848.751	0.028		
		849.001	0.027		
		849.251	0.02		
		849.501	0.024		
		849.751	0.031		
		850.001	0.028		
		850.251	0.025		
		850.501	0.032		
		850.751	0.026		
		851.001	0.021		
		851.251	0.019		
		851.501	0.022		
		851.751	0.029		
		852.001	0.023		
		852.251	0.023		
		852.501	0.027		
		852.946	0.023		
		853.069	0.022		
		853.251	0.027		
		853.501	0.025		
		853.751	0.018		
		854.001	0.025		
		854.251	0.023		
		854.501	0.027		
		854.751	0.028		
		855.001	0.024		
		855.251	0.019		
		855.501	0.025		
		855.751	0.028		
		856.001	0.029		
		856.251	0.026		
		856.501	0.025		
		856.751	0.034		
		857.001	0.025		
		857.251	0.027		
		857.501	0.024		
		857.751	0.025		
		858.001	0.026		
		858.251	0.022		
		858.501	0.024		
		858.751	0.026		
		859.001	0.029		
		859.251	0.031		

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		859.501	0.028		
		859.751	0.028		
		860.001	0.03		
		860.251	0.029		
		860.501	0.028		
		860.751	0.028		
		861.001	0.032		
		861.251	0.024		
		861.501	0.025		
		861.751	0.024		
		862.001	0.026		
		862.251	0.026		
		862.501	0.028		
		862.751	0.03		
		863.001	0.033		
		863.251	0.025		
		863.501	0.027		
		863.751	0.035		
		864.001	0.027		
		864.251	0.031		
		864.501	0.024		
		864.751	0.031		
		865.001	0.026		
		865.251	0.031		
		865.501	0.023		
		865.751	0.034		
		866.001	0.027		
		866.251	0.032		
		866.501	0.025		
		866.751	0.026		
		867.001	0.031		
		867.251	0.027		
		867.501	0.03		
		867.751	0.033		
		868.001	0.032		
		868.251	0.028		
		868.501	0.032		
		868.751	0.026		
		869.001	0.031		
		869.251	0.03		
		869.501	0.034		
		869.751	0.033		
		870.001	0.029		
		870.251	0.029		
		870.501	0.03		
		870.751	0.03		
		871.001	0.03		
		871.251	0.028		
		871.501	0.032		
		871.751	0.031		
		872.001	0.027		
		872.251	0.026		
		872.501	0.029		
		872.751	0.029		
		873.001	0.032		
		873.251	0.03		
		873.501	0.031		
		873.751	0.034		
		874.001	0.035		
		874.251	0.028		
		874.501	0.033		
		874.751	0.034		
		875.001	0.031		
		875.251	0.032		
		875.501	0.031		
		875.751	0.031		
		876.001	0.026		
		876.251	0.033		
		876.501	0.024		
		876.751	0.029		
		877.001	0.035		

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		877.251	0.031		
		877.501	0.029		
		877.751	0.027		
		878.001	0.028		
		878.251	0.032		
		878.501	0.029		
		878.751	0.032		
		879.001	0.027		
		879.251	0.027		
		879.501	0.034		
		879.751	0.026		
		880.001	0.029		
		880.251	0.028		
		880.501	0.025		
		880.751	0.03		
		881.001	0.027		
		881.251	0.032		
		881.501	0.026		
		881.751	0.031		
		882.001	0.032		
		882.251	0.029		
		882.501	0.03		
		882.751	0.025		
		883.001	0.03		
		883.251	0.035		
		883.501	0.027		
		883.751	0.028		
		884.001	0.028		
		884.251	0.027		
		884.501	0.03		
		884.751	0.029		
		885.001	0.031		
		885.251	0.028		
		885.501	0.027		
		885.751	0.024		
		886.001	0.03		
		886.251	0.026		
		886.501	0.031		
		886.751	0.03		
		887.001	0.029		
		887.251	0.027		
		887.501	0.031		
		887.751	0.028		
		888.001	0.029		
		888.251	0.027		
		888.501	0.03		
		888.751	0.027		
		889.001	0.029		
		889.251	0.035		
		889.501	0.031		
		889.751	0.025		
		890.001	0.03		
		890.251	0.027		
		890.501	0.028		
		890.751	0.034		
		891.001	0.034		
		891.251	0.026		
		891.501	0.033		
		891.751	0.03		
		892.001	0.029		
		892.251	0.032		
		892.501	0.032		
		892.751	0.029		
		893.001	0.032		
		893.251	0.022		
		893.501	0.03		
		893.751	0.028		
		894.001	0.028		
		894.251	0.025		
		894.501	0.027		
		894.758	0.03		

MW-161-4					
Falling Head Test 1		Rising Head Test 1		Rising Head Test 2	
Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation	Elapsed Time	DTW Deviation
		895.001	0.027		
		895.251	0.025		
		895.501	0.032		
		896.045	0.033		
		896.167	0.027		
		896.29	0.027		
		896.501	0.028		
		896.751	0.03		
		897.001	0.031		
		897.251	0.028		
		897.511	0.022		
		897.751	0.028		
		898.001	0.03		
		898.251	0.031		
		898.501	0.029		
		899.045	0.025		
		899.167	0.032		
		899.289	0.027		
		899.501	0.031		
		899.751	0.027		
		900.001	0.026		
		900.251	0.029		
		900.501	0.024		
		900.751	0.028		
		901.001	0.026		
		901.251	0.025		
		901.501	0.027		
		901.751	0.025		
		902.001	0.023		
		902.251	0.031		
		902.501	0.028		
		902.751	0.029		
		903.001	0.026		
		903.251	0.029		
		903.501	0.026		
		903.751	0.026		
		904.001	0.032		
		904.251	0.03		
		904.501	0.027		
		904.751	0.024		
		905.001	0.026		
		905.251	0.029		
		905.501	0.032		
		905.751	0.026		
		906.001	0.027		
		906.251	0.026		
		906.501	0.023		
		906.751	0.026		
		907.001	0.027		
		907.251	0.031		
		907.501	0.029		
		907.751	0.024		
		908.001	0.025		
		908.251	0.025		
		908.501	0.032		
		908.751	0.024		
		909.001	0.027		
		909.251	0.024		
		909.501	0.029		
		909.751	0.023		
		910.001	0.029		

Appendix G

Waste Materials

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.: Not Required
Document No.:
2. Page 1 of:

GENERATOR

3. Generator Site Address and Mailing Address: NYS DEC, 301 Winding Rd, Old Bethpage NY
4. Phone:
A. Document Number:
B. State ID:

5. Transporter 1 Company Name: Brookside Environmental, Inc.
6. US EPA ID Number: NYR000081661
C. State Transporter's ID: 1A-644
D. Transporter's Phone: (631) 608-8810

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Clean Water of New York, 3249 Richmond Terrace, Staten Island, NY 10303
10. US EPA ID Number: NYD000968545
G. State Facility's ID:
H. Facility's Phone: (718) 981-4600

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous	007	DM	1200	P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	X	DM	X	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above: a.) Soil Cuttings
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
a) App# 237-028
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

Printed / Type Name: Eric Rosenzweig as agent for NYSDEC
Signature:
DATE: Month 1 Day 17 Year 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed / Type Name: Nicholas Holdener
Signature: Nicholas Holdener
DATE: Month 1 Day 17 Year 18

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed / Type Name:
Signature:
DATE: Month Day Year

FACILITY

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.
Printed / Typed Name:
DATE: Month Day Year

PHONE: 631.608.8810
FAX: 631.608.8811

BROOKSIDE ENVIRONMENTAL
www.brooksideweb.com

Transporter Permit #1A-644
EPA ID #NYR000081661
BIC # 2935

NON-HAZARDOUS MANIFEST

1. Customer's US EPA ID NO.: Not Required
Document No.:
2. Page 1 of: 1

3. Generator Site Address and Mailing Address: NYSDEC, 301 Winding Road, Old Bethpage, NY 11804
4. Phone: 518-782-4526

A. Document Number: BEI 100418-1
B. State ID:

5. Transporter 1 Company Name: Brookside Environmental, Inc.
6. US EPA ID Number: NYR000081661
C. State Transporter's ID: 1A-644
D. Transporter's Phone: (631) 608-8810

7. Transporter 2 Company Name:
8. US EPA ID Number:
E. State Transporter's ID:
F. Transporter's Phone:

9. Designated Facility Name and Site Address: Clean Water of New York, 3249 Richmond Terrace, Staten Island, NY 10303
10. US EPA ID Number: NYD000968545
G. State Facility's ID:
H. Facility's Phone: (718) 981-4600

11. US DOT Description (Including Proper Shipping Name)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	L. Waste No.
a. Non-hazardous waste solid, nos Non-RCRA/Non-DOT Hazardous		DM		P	
b. Non-hazardous waste liquid, nos Non-RCRA/Non-DOT Hazardous	30	DM	1,500	G	
c.					
d.					

J. Additional Descriptions for Materials Listed Above: b) Groundwater
K. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information
a) App# 237-028
b) App# 237-029

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.

GENERATOR

Printed / Type Name: LIA ESTRADA AGENT FOR NYSDEC
Signature:
DATE: Month 10 Day 4 Year 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed / Type Name:
Signature:
DATE: Month 10 Day 4 Year 18

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed / Type Name:
Signature:
DATE: Month Day Year

FACILITY

19. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted.
Printed / Typed Name:
DATE: Month Day Year

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1		2289 - 3

GENERATOR

5. Generator's Name and Mailing Address
NYSDEC
301 Winding Road
Old Bethpage NY 11804
Generator's Phone:

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: Brookside Environmental, Inc.
U.S. EPA ID Number: NYR000081661

7. Transporter 2 Company Name: Veolia ES Technical Solutions, LLC
U.S. EPA ID Number: NYD080631369

8. Designated Facility Name and Site Address
Veolia ES Technical Solutions, LLC
1 Eden Lane
Flanders NJ 07836
Facility's Phone: 973 347-1909
U.S. EPA ID Number: NJD980536593

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non-hazardous waste solid, nos Non RCRA/Non DOT hazardous	020	DM	6,000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
1 non-regulated soil WP# 401166

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

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
Frank Rivera	Frank Rivera for NYSDEC	12	14	18

INT'L

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

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Nicholas Hilaire	Nicholas Hilaire			
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year
		12	14	18

DESIGNATED FACILITY

17. Discrepancy

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

Manifest Reference Number:

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

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

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

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S/SHIPPER'S INITIAL COPY

Appendix H

Laboratory Results

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-40996-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
11/29/2017 9:20:59 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 17
QC Sample Results 38
QC Association Summary 44
Lab Chronicle 45
Certification Summary 48
Method Summary 49
Sample Summary 50
Chain of Custody 51
Receipt Checklists 55
Clean Canister Certification 56
    Pre-Ship Certification 56
    Clean Canister Data 58

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Job ID: 200-40996-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-40996-1

Receipt
The samples were received on 11/16/2017 10:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions
The container labels for the following samples did not match the information listed on the Chain-of-Custody (COC): SVI-161-1-IA-20171114 (200-40996-1), SVI-301-1-IA-20171114 (200-40996-4), SVI-301-1-SS-20171114 (200-40996-5), SVI-301-3-SS-20171114 (200-40996-9), SVI-301-3-IA-20171114 (200-40996-11) and SVI-301-2-IA-20171114 (200-40996-12). The container labels list barcoded canister IDs, while the COC lists engraved numbers found on aircans. Used barcoded canister IDs for login.

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-301-4-OA-20171114 (200-40996-6), The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-301-3-SS-20171114 (200-40996-9). The associated flow controller was evaluated and was found to be outside the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

During the canister pressure check performed upon receipt, it was observed that the following sample was received at an elevated residual vacuum level: SVI-161-3-SS-20171114 (200-40996-13). The associated flow controller was evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Client Sample ID: SVI-161-1-IA-20171114 — Lab Sample ID: 200-40996-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.38	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.41	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.26		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.034	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	16		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	2.9	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.17	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.085	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.15	J	0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.016	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
Benzene	0.051	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.23		0.20	0.0091	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.9	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.84	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.5		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.26	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	37		12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	7.2	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.60	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	0.30	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.51	J	0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.10	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
Benzene	0.16	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Trichloroethene	1.2		1.1	0.049	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-161-1-SS-20171114 — Lab Sample ID: 200-40996-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.61	J	5.0	0.47	ppb v/v	10		TO-15	Total/NA
Trichlorofluoromethane	9.5		2.0	0.31	ppb v/v	10		TO-15	Total/NA
Chloroform	0.30	J	2.0	0.25	ppb v/v	10		TO-15	Total/NA
1,1,1-Trichloroethane	4.1		2.0	0.26	ppb v/v	10		TO-15	Total/NA
Trichloroethene	230		2.0	0.091	ppb v/v	10		TO-15	Total/NA
4-Methyl-2-pentanone	1.1	J	5.0	0.65	ppb v/v	10		TO-15	Total/NA
Toluene	0.66	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	53		2.0	0.098	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	19		2.0	0.34	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	15		5.0	0.77	ppb v/v	10		TO-15	Total/NA
Xylene, o-	39		2.0	0.40	ppb v/v	10		TO-15	Total/NA
Xylene (total)	54		7.0	0.40	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.0	J	25	2.3	ug/m3	10		TO-15	Total/NA
Trichlorofluoromethane	53		11	1.7	ug/m3	10		TO-15	Total/NA
Chloroform	1.5	J	9.8	1.2	ug/m3	10		TO-15	Total/NA
1,1,1-Trichloroethane	22		11	1.4	ug/m3	10		TO-15	Total/NA
Trichloroethene	1200		11	0.49	ug/m3	10		TO-15	Total/NA
4-Methyl-2-pentanone	4.7	J	20	2.7	ug/m3	10		TO-15	Total/NA
Toluene	2.5	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	360		14	0.66	ug/m3	10		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-1-SS-20171114 (Continued) — Lab Sample ID: 200-40996-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	80		8.7	1.5	ug/m3	10		TO-15	Total/NA
m,p-Xylene	66		22	3.3	ug/m3	10		TO-15	Total/NA
Xylene, o-	170		8.7	1.7	ug/m3	10		TO-15	Total/NA
Xylene (total)	230		30	1.7	ug/m3	10		TO-15	Total/NA

Client Sample ID: SVI-161-DUP-SS-2-20171114 — Lab Sample ID: 200-40996-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.56	J	5.0	0.47	ppb v/v	10		TO-15	Total/NA
Trichlorofluoromethane	8.7		2.0	0.31	ppb v/v	10		TO-15	Total/NA
Isopropanol	2.1	J	50	1.3	ppb v/v	10		TO-15	Total/NA
1,1,1-Trichloroethane	4.5		2.0	0.26	ppb v/v	10		TO-15	Total/NA
Trichloroethene	250		2.0	0.091	ppb v/v	10		TO-15	Total/NA
4-Methyl-2-pentanone	1.3	J	5.0	0.65	ppb v/v	10		TO-15	Total/NA
Toluene	0.51	J	2.0	0.35	ppb v/v	10		TO-15	Total/NA
Tetrachloroethene	49		2.0	0.098	ppb v/v	10		TO-15	Total/NA
Ethylbenzene	18		2.0	0.34	ppb v/v	10		TO-15	Total/NA
m,p-Xylene	15		5.0	0.77	ppb v/v	10		TO-15	Total/NA
Xylene, o-	41		2.0	0.40	ppb v/v	10		TO-15	Total/NA
Xylene (total)	56		7.0	0.40	ppb v/v	10		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.8	J	25	2.3	ug/m3	10		TO-15	Total/NA
Trichlorofluoromethane	49		11	1.7	ug/m3	10		TO-15	Total/NA
Isopropanol	5.2	J	120	3.2	ug/m3	10		TO-15	Total/NA
1,1,1-Trichloroethane	25		11	1.4	ug/m3	10		TO-15	Total/NA
Trichloroethene	1300		11	0.49	ug/m3	10		TO-15	Total/NA
4-Methyl-2-pentanone	5.5	J	20	2.7	ug/m3	10		TO-15	Total/NA
Toluene	1.9	J	7.5	1.3	ug/m3	10		TO-15	Total/NA
Tetrachloroethene	330		14	0.66	ug/m3	10		TO-15	Total/NA
Ethylbenzene	79		8.7	1.5	ug/m3	10		TO-15	Total/NA
m,p-Xylene	66		22	3.3	ug/m3	10		TO-15	Total/NA
Xylene, o-	180		8.7	1.7	ug/m3	10		TO-15	Total/NA
Xylene (total)	240		30	1.7	ug/m3	10		TO-15	Total/NA

Client Sample ID: SVI-301-1-IA-20171114 — Lab Sample ID: 200-40996-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.1	J	2.5	0.24	ppb v/v	5		TO-15	Total/NA
Trichlorofluoromethane	2.9		1.0	0.16	ppb v/v	5		TO-15	Total/NA
Acetone	13	J	25	6.5	ppb v/v	5		TO-15	Total/NA
Isopropanol	5.3	J	25	0.65	ppb v/v	5		TO-15	Total/NA
n-Hexane	12		1.0	0.23	ppb v/v	5		TO-15	Total/NA
2-Butanone	1.2	J	2.5	0.55	ppb v/v	5		TO-15	Total/NA
Cyclohexane	5.2		1.0	0.23	ppb v/v	5		TO-15	Total/NA
2,2,4-Trimethylpentane	9.6		1.0	0.22	ppb v/v	5		TO-15	Total/NA
Benzene	3.7		1.0	0.14	ppb v/v	5		TO-15	Total/NA
n-Heptane	7.0		1.0	0.34	ppb v/v	5		TO-15	Total/NA
Trichloroethene	0.76	J	1.0	0.046	ppb v/v	5		TO-15	Total/NA
4-Methyl-2-pentanone	16		2.5	0.33	ppb v/v	5		TO-15	Total/NA
Toluene	17		1.0	0.18	ppb v/v	5		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-1-IA-20171114 (Continued) — Lab Sample ID: 200-40996-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	110		1.0	0.049	ppb v/v	5		TO-15	Total/NA
Ethylbenzene	3.8		1.0	0.17	ppb v/v	5		TO-15	Total/NA
m,p-Xylene	15		2.5	0.39	ppb v/v	5		TO-15	Total/NA
Xylene, o-	5.0		1.0	0.20	ppb v/v	5		TO-15	Total/NA
Xylene (total)	20		3.5	0.20	ppb v/v	5		TO-15	Total/NA
Styrene	1.0		1.0	0.18	ppb v/v	5		TO-15	Total/NA
4-Ethyltoluene	1.5		1.0	0.20	ppb v/v	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.7		1.0	0.20	ppb v/v	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	5.5		1.0	0.29	ppb v/v	5		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	5.5	J	12	1.2	ug/m3	5		TO-15	Total/NA
Trichlorofluoromethane	16		5.6	0.87	ug/m3	5		TO-15	Total/NA
Acetone	32	J	59	15	ug/m3	5		TO-15	Total/NA
Isopropanol	13	J	61	1.6	ug/m3	5		TO-15	Total/NA
n-Hexane	41		3.5	0.81	ug/m3	5		TO-15	Total/NA
2-Butanone	3.4	J	7.4	1.6	ug/m3	5		TO-15	Total/NA
Cyclohexane	18		3.4	0.77	ug/m3	5		TO-15	Total/NA
2,2,4-Trimethylpentane	45		4.7	1.0	ug/m3	5		TO-15	Total/NA
Benzene	12		3.2	0.45	ug/m3	5		TO-15	Total/NA
n-Heptane	29		4.1	1.4	ug/m3	5		TO-15	Total/NA
Trichloroethene	4.1	J	5.4	0.24	ug/m3	5		TO-15	Total/NA
4-Methyl-2-pentanone	66		10	1.3	ug/m3	5		TO-15	Total/NA
Toluene	63		3.8	0.66	ug/m3	5		TO-15	Total/NA
Tetrachloroethene	770		6.8	0.33	ug/m3	5		TO-15	Total/NA
Ethylbenzene	17		4.3	0.74	ug/m3	5		TO-15	Total/NA
m,p-Xylene	63		11	1.7	ug/m3	5		TO-15	Total/NA
Xylene, o-	22		4.3	0.87	ug/m3	5		TO-15	Total/NA
Xylene (total)	87		15	0.87	ug/m3	5		TO-15	Total/NA
Styrene	4.4		4.3	0.75	ug/m3	5		TO-15	Total/NA
4-Ethyltoluene	7.6		4.9	0.98	ug/m3	5		TO-15	Total/NA
1,3,5-Trimethylbenzene	8.2		4.9	0.98	ug/m3	5		TO-15	Total/NA
1,2,4-Trimethylbenzene	27		4.9	1.4	ug/m3	5		TO-15	Total/NA

Client Sample ID: SVI-301-1-SS-20171114 — Lab Sample ID: 200-40996-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	29		4.0	0.62	ppb v/v	20		TO-15	Total/NA
1,1-Dichloroethane	3.1	J	4.0	0.34	ppb v/v	20		TO-15	Total/NA
Chloroform	8.8		4.0	0.50	ppb v/v	20		TO-15	Total/NA
1,1,1-Trichloroethane	2.8	J	4.0	0.52	ppb v/v	20		TO-15	Total/NA
Benzene	0.73	J	4.0	0.56	ppb v/v	20		TO-15	Total/NA
Trichloroethene	550		4.0	0.18	ppb v/v	20		TO-15	Total/NA
Tetrachloroethene	62		4.0	0.20	ppb v/v	20		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	160		22	3.5	ug/m3	20		TO-15	Total/NA
1,1-Dichloroethane	12	J	16	1.4	ug/m3	20		TO-15	Total/NA
Chloroform	43		20	2.4	ug/m3	20		TO-15	Total/NA
1,1,1-Trichloroethane	15	J	22	2.8	ug/m3	20		TO-15	Total/NA
Benzene	2.3	J	13	1.8	ug/m3	20		TO-15	Total/NA
Trichloroethene	3000		21	0.98	ug/m3	20		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-1-SS-20171114 (Continued) — Lab Sample ID: 200-40996-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	420		27	1.3	ug/m3	20		TO-15	Total/NA

Client Sample ID: SVI-301-4-OA-20171114 — Lab Sample ID: 200-40996-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.42	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.42	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.24		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.060	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	4.2	J	5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	3.0	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.093	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.18	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	0.35	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.056	J	0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.060	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.12	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	0.17	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.098	J	0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.2		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.14	J	0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	0.31		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.67		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.070	J	0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.24	J	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.083	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.32	J	0.70	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.061	J	0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.1	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.87	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.4		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.46	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	9.9	J	12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	7.3	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.32	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	0.62	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	1.0	J	1.5	0.32	ug/m3	1		TO-15	Total/NA
Cyclohexane	0.19	J	0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.37	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.57	J	0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.56	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	0.40	J	0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	6.5		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.56	J	2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	1.2		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	4.5		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	0.30	J	0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	1.0	J	2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	0.36	J	0.87	0.17	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-4-OA-20171114 (Continued) — Lab Sample ID: 200-40996-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylene (total)	1.4	J	3.0	0.17	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.30	J	0.98	0.28	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-161-3-IA-20171114 — Lab Sample ID: 200-40996-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.38	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.47	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.20		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.063	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	8.0		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	3.5	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.13	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	3.1		0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	1.2		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.1		0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.061	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	4.1		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	1.8		0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	1.5		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.63		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.70		0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	7.6		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.45		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.2		0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.8		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	1.5		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	5.3		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Styrene	0.085	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.39		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.36		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.1		0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.9	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.98	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.1		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.49	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	19		12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	8.6	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.44	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	11		0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	3.6		1.5	0.32	ug/m3	1		TO-15	Total/NA
Cyclohexane	3.9		0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.39	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	19		0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	5.7		0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	6.3		0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.4		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	2.9		2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	28		0.75	0.13	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-3-IA-20171114 (Continued) — Lab Sample ID: 200-40996-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3.1		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.1		0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	6.4		0.87	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	23		3.0	0.17	ug/m3	1		TO-15	Total/NA
Styrene	0.36	J	0.85	0.15	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.9		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.8		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	5.6		0.98	0.28	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-161-4-IA-20171114 — Lab Sample ID: 200-40996-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.39	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.43	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.064	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	6.3		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	3.4	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.12	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	3.2		0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	0.81		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.1		0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.066	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	4.2		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	1.8		0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	1.5		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.57		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.68		0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	7.2		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.28		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	1.2		0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	3.9		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	1.6		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	5.5		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Styrene	0.12	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.43		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.42		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	1.6		0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.9	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.89	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.49	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	15		12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	8.3	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.40	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	11		0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	2.4		1.5	0.32	ug/m3	1		TO-15	Total/NA
Cyclohexane	3.8		0.69	0.15	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-4-IA-20171114 (Continued) — Lab Sample ID: 200-40996-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.42	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	20		0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	5.7		0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	6.1		0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	3.1		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	2.8		2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	27		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.9		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	5.2		0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	17		2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	6.7		0.87	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	24		3.0	0.17	ug/m3	1		TO-15	Total/NA
Styrene	0.51	J	0.85	0.15	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	2.1		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.1		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	7.7		0.98	0.28	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-301-3-SS-20171114 — Lab Sample ID: 200-40996-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.2	J	8.5	0.80	ppb v/v	16.96		TO-15	Total/NA
Trichlorofluoromethane	84		3.4	0.53	ppb v/v	16.96		TO-15	Total/NA
Chloroform	1.0	J	3.4	0.42	ppb v/v	16.96		TO-15	Total/NA
1,1,1-Trichloroethane	5.9		3.4	0.44	ppb v/v	16.96		TO-15	Total/NA
Benzene	0.60	J	3.4	0.47	ppb v/v	16.96		TO-15	Total/NA
Trichloroethene	470		3.4	0.15	ppb v/v	16.96		TO-15	Total/NA
Toluene	11		3.4	0.59	ppb v/v	16.96		TO-15	Total/NA
Tetrachloroethene	87		3.4	0.17	ppb v/v	16.96		TO-15	Total/NA
Ethylbenzene	4.6		3.4	0.58	ppb v/v	16.96		TO-15	Total/NA
m,p-Xylene	54		8.5	1.3	ppb v/v	16.96		TO-15	Total/NA
Xylene, o-	36		3.4	0.68	ppb v/v	16.96		TO-15	Total/NA
Xylene (total)	90		12	0.68	ppb v/v	16.96		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	5.7	J	42	3.9	ug/m3	16.96		TO-15	Total/NA
Trichlorofluoromethane	470		19	3.0	ug/m3	16.96		TO-15	Total/NA
Chloroform	5.1	J	17	2.1	ug/m3	16.96		TO-15	Total/NA
1,1,1-Trichloroethane	32		19	2.4	ug/m3	16.96		TO-15	Total/NA
Benzene	1.9	J	11	1.5	ug/m3	16.96		TO-15	Total/NA
Trichloroethene	2500		18	0.83	ug/m3	16.96		TO-15	Total/NA
Toluene	43		13	2.2	ug/m3	16.96		TO-15	Total/NA
Tetrachloroethene	590		23	1.1	ug/m3	16.96		TO-15	Total/NA
Ethylbenzene	20		15	2.5	ug/m3	16.96		TO-15	Total/NA
m,p-Xylene	230		37	5.7	ug/m3	16.96		TO-15	Total/NA
Xylene, o-	160		15	2.9	ug/m3	16.96		TO-15	Total/NA
Xylene (total)	390		52	2.9	ug/m3	16.96		TO-15	Total/NA

Client Sample ID: SVI-301-2-SS-20171114 — Lab Sample ID: 200-40996-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.0	J	8.5	0.80	ppb v/v	17		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-2-SS-20171114 (Continued) — Lab Sample ID: 200-40996-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichlorofluoromethane	63		3.4	0.53	ppb v/v	17		TO-15	Total/NA
2-Butanone	2.4	J	8.5	1.9	ppb v/v	17		TO-15	Total/NA
Chloroform	2.7	J	3.4	0.43	ppb v/v	17		TO-15	Total/NA
1,1,1-Trichloroethane	2.8	J	3.4	0.44	ppb v/v	17		TO-15	Total/NA
Benzene	1.2	J	3.4	0.48	ppb v/v	17		TO-15	Total/NA
Trichloroethene	380		3.4	0.15	ppb v/v	17		TO-15	Total/NA
Toluene	280		3.4	0.60	ppb v/v	17		TO-15	Total/NA
Tetrachloroethene	150		3.4	0.17	ppb v/v	17		TO-15	Total/NA
Ethylbenzene	39		3.4	0.58	ppb v/v	17		TO-15	Total/NA
m,p-Xylene	350		8.5	1.3	ppb v/v	17		TO-15	Total/NA
Xylene, o-	190		3.4	0.68	ppb v/v	17		TO-15	Total/NA
Xylene (total)	540		12	0.68	ppb v/v	17		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	5.0	J	42	4.0	ug/m3	17		TO-15	Total/NA
Trichlorofluoromethane	350		19	3.0	ug/m3	17		TO-15	Total/NA
2-Butanone	7.1	J	25	5.5	ug/m3	17		TO-15	Total/NA
Chloroform	13	J	17	2.1	ug/m3	17		TO-15	Total/NA
1,1,1-Trichloroethane	15	J	19	2.4	ug/m3	17		TO-15	Total/NA
Benzene	4.0	J	11	1.5	ug/m3	17		TO-15	Total/NA
Trichloroethene	2000		18	0.83	ug/m3	17		TO-15	Total/NA
Toluene	1000		13	2.2	ug/m3	17		TO-15	Total/NA
Tetrachloroethene	1000		23	1.1	ug/m3	17		TO-15	Total/NA
Ethylbenzene	170		15	2.5	ug/m3	17		TO-15	Total/NA
m,p-Xylene	1500		37	5.7	ug/m3	17		TO-15	Total/NA
Xylene, o-	810		15	3.0	ug/m3	17		TO-15	Total/NA
Xylene (total)	2300		52	3.0	ug/m3	17		TO-15	Total/NA

Client Sample ID: SVI-301-3-IA-20171114 — Lab Sample ID: 200-40996-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.69		0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.46	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	1.7		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.057	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	2.9	J	5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	2.3	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.096	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	2.5		0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	0.33	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	0.026	J	0.20	0.025	ppb v/v	1		TO-15	Total/NA
Cyclohexane	1.0		0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.069	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	2.1		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	0.85		0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	1.5		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.2		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	2.7		0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	3.1		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	19		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.79		0.20	0.034	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-3-IA-20171114 (Continued) — Lab Sample ID: 200-40996-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
m,p-Xylene	3.3		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	1.2		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	4.5		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Styrene	0.20		0.20	0.035	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.26		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.26		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.88		0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	3.4		2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.95	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	9.7		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.44	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	6.9	J	12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	5.7	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.33	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	8.7		0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	0.96	J	1.5	0.32	ug/m3	1		TO-15	Total/NA
Chloroform	0.13	J	0.98	0.12	ug/m3	1		TO-15	Total/NA
Cyclohexane	3.6		0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.43	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	9.6		0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	2.7		0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	6.1		0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	6.5		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	11		2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	12		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	130		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	3.4		0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	14		2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	5.2		0.87	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	20		3.0	0.17	ug/m3	1		TO-15	Total/NA
Styrene	0.85		0.85	0.15	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.3		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.3		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	4.3		0.98	0.28	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-301-2-IA-20171114 — Lab Sample ID: 200-40996-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.7	J	1.8	0.16	ppb v/v	3.51		TO-15	Total/NA
Trichlorofluoromethane	6.4		0.70	0.11	ppb v/v	3.51		TO-15	Total/NA
Acetone	13	J	18	4.6	ppb v/v	3.51		TO-15	Total/NA
Isopropanol	3.4	J	18	0.46	ppb v/v	3.51		TO-15	Total/NA
n-Hexane	16		0.70	0.16	ppb v/v	3.51		TO-15	Total/NA
2-Butanone	0.99	J	1.8	0.39	ppb v/v	3.51		TO-15	Total/NA
Cyclohexane	6.9		0.70	0.16	ppb v/v	3.51		TO-15	Total/NA
2,2,4-Trimethylpentane	13		0.70	0.15	ppb v/v	3.51		TO-15	Total/NA
Benzene	4.7		0.70	0.098	ppb v/v	3.51		TO-15	Total/NA
n-Heptane	9.6		0.70	0.24	ppb v/v	3.51		TO-15	Total/NA
Trichloroethene	0.79		0.70	0.032	ppb v/v	3.51		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-301-2-IA-20171114 (Continued) — Lab Sample ID: 200-40996-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4-Methyl-2-pentanone	23		1.8	0.23	ppb v/v	3.51		TO-15	Total/NA
Toluene	22		0.70	0.12	ppb v/v	3.51		TO-15	Total/NA
Tetrachloroethene	110		0.70	0.034	ppb v/v	3.51		TO-15	Total/NA
Ethylbenzene	5.0		0.70	0.12	ppb v/v	3.51		TO-15	Total/NA
m,p-Xylene	20		1.8	0.27	ppb v/v	3.51		TO-15	Total/NA
Xylene, o-	6.6		0.70	0.14	ppb v/v	3.51		TO-15	Total/NA
Xylene (total)	27		2.5	0.14	ppb v/v	3.51		TO-15	Total/NA
Styrene	1.4		0.70	0.12	ppb v/v	3.51		TO-15	Total/NA
4-Ethyltoluene	2.4		0.70	0.14	ppb v/v	3.51		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.5		0.70	0.14	ppb v/v	3.51		TO-15	Total/NA
1,2,4-Trimethylbenzene	9.2		0.70	0.20	ppb v/v	3.51		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	8.6	J	8.7	0.82	ug/m3	3.51		TO-15	Total/NA
Trichlorofluoromethane	36		3.9	0.61	ug/m3	3.51		TO-15	Total/NA
Acetone	30	J	42	11	ug/m3	3.51		TO-15	Total/NA
Isopropanol	8.4	J	43	1.1	ug/m3	3.51		TO-15	Total/NA
n-Hexane	56		2.5	0.57	ug/m3	3.51		TO-15	Total/NA
2-Butanone	2.9	J	5.2	1.1	ug/m3	3.51		TO-15	Total/NA
Cyclohexane	24		2.4	0.54	ug/m3	3.51		TO-15	Total/NA
2,2,4-Trimethylpentane	61		3.3	0.71	ug/m3	3.51		TO-15	Total/NA
Benzene	15		2.2	0.31	ug/m3	3.51		TO-15	Total/NA
n-Heptane	39		2.9	0.98	ug/m3	3.51		TO-15	Total/NA
Trichloroethene	4.2		3.8	0.17	ug/m3	3.51		TO-15	Total/NA
4-Methyl-2-pentanone	96		7.2	0.93	ug/m3	3.51		TO-15	Total/NA
Toluene	81		2.6	0.46	ug/m3	3.51		TO-15	Total/NA
Tetrachloroethene	720		4.8	0.23	ug/m3	3.51		TO-15	Total/NA
Ethylbenzene	22		3.0	0.52	ug/m3	3.51		TO-15	Total/NA
m,p-Xylene	85		7.6	1.2	ug/m3	3.51		TO-15	Total/NA
Xylene, o-	29		3.0	0.61	ug/m3	3.51		TO-15	Total/NA
Xylene (total)	120		11	0.61	ug/m3	3.51		TO-15	Total/NA
Styrene	6.2		3.0	0.52	ug/m3	3.51		TO-15	Total/NA
4-Ethyltoluene	12		3.5	0.69	ug/m3	3.51		TO-15	Total/NA
1,3,5-Trimethylbenzene	13		3.5	0.69	ug/m3	3.51		TO-15	Total/NA
1,2,4-Trimethylbenzene	45		3.5	0.98	ug/m3	3.51		TO-15	Total/NA

Client Sample ID: SVI-161-3-SS-20171114 — Lab Sample ID: 200-40996-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.37	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.48	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	1.8		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.11	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	19		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	1.3	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.39	J	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.78		0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	3.1		0.50	0.11	ppb v/v	1		TO-15	Total/NA
Chloroform	0.028	J	0.20	0.025	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.99		0.20	0.026	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.32		0.20	0.045	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-3-SS-20171114 (Continued) — Lab Sample ID: 200-40996-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon tetrachloride	0.017	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.89		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	0.92		0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.48		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	3.0		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.34	J	0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	2.6		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	33		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.45		0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.5		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.75		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	2.3		0.70	0.040	ppb v/v	1		TO-15	Total/NA
Styrene	0.092	J	0.20	0.035	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.23		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.28		0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.79		0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.8	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.99	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	10		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.87	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	45		12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	3.1	J	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	1.4	J	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	2.8		0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	9.3		1.5	0.32	ug/m3	1		TO-15	Total/NA
Chloroform	0.14	J	0.98	0.12	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	5.4		1.1	0.14	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.1		0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.11	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	4.2		0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	3.0		0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	2.0		0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	16		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	1.4	J	2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	10		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	230		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	2.0		0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	6.4		2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	3.3		0.87	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	9.8		3.0	0.17	ug/m3	1		TO-15	Total/NA
Styrene	0.39	J	0.85	0.15	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	1.1		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	1.4		0.98	0.20	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	3.9		0.98	0.28	ug/m3	1		TO-15	Total/NA

Client Sample ID: SVI-161-4-SS-20171114 — Lab Sample ID: 200-40996-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.35	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-4-SS-20171114 (Continued)

Lab Sample ID: 200-40996-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.16	J	0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.23		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.060	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	5.9		5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	1.2	J	5.0	0.13	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.75		0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	0.79		0.50	0.11	ppb v/v	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.068	J	0.20	0.026	ppb v/v	1		TO-15	Total/NA
Cyclohexane	0.36		0.20	0.045	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.045	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	1.3		0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	0.65		0.20	0.028	ppb v/v	1		TO-15	Total/NA
n-Heptane	0.50		0.20	0.068	ppb v/v	1		TO-15	Total/NA
Trichloroethene	1.0		0.20	0.0091	ppb v/v	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.23	J	0.50	0.065	ppb v/v	1		TO-15	Total/NA
Toluene	2.1		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	1.3		0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.38		0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	1.2		0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene, o-	0.48		0.20	0.040	ppb v/v	1		TO-15	Total/NA
Xylene (total)	1.7		0.70	0.040	ppb v/v	1		TO-15	Total/NA
4-Ethyltoluene	0.13	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.15	J	0.20	0.040	ppb v/v	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.43		0.20	0.057	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	1.7	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	0.32	J	1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.3		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.46	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	14		12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	2.8	J	12	0.32	ug/m3	1		TO-15	Total/NA
n-Hexane	2.6		0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	2.3		1.5	0.32	ug/m3	1		TO-15	Total/NA
1,1,1-Trichloroethane	0.37	J	1.1	0.14	ug/m3	1		TO-15	Total/NA
Cyclohexane	1.2		0.69	0.15	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.28	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	5.9		0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	2.1		0.64	0.089	ug/m3	1		TO-15	Total/NA
n-Heptane	2.1		0.82	0.28	ug/m3	1		TO-15	Total/NA
Trichloroethene	5.5		1.1	0.049	ug/m3	1		TO-15	Total/NA
4-Methyl-2-pentanone	0.95	J	2.0	0.27	ug/m3	1		TO-15	Total/NA
Toluene	8.1		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	8.8		1.4	0.066	ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.7		0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	5.1		2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene, o-	2.1		0.87	0.17	ug/m3	1		TO-15	Total/NA
Xylene (total)	7.3		3.0	0.17	ug/m3	1		TO-15	Total/NA
4-Ethyltoluene	0.65	J	0.98	0.20	ug/m3	1		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.72	J	0.98	0.20	ug/m3	1		TO-15	Total/NA
1,2,4-Trimethylbenzene	2.1		0.98	0.28	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-1-IA-20171114
Date Collected: 11/14/17 11:51
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-40996-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.38	J	0.50	0.047	ppb v/v			11/17/17 23:02	1
Chloromethane	0.41	J	0.50	0.16	ppb v/v			11/17/17 23:02	1
Trichlorofluoromethane	0.26		0.20	0.031	ppb v/v			11/17/17 23:02	1
Trichlorotrifluoroethane	0.034	J	0.20	0.027	ppb v/v			11/17/17 23:02	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/17/17 23:02	1
Acetone	16		5.0	1.3	ppb v/v			11/17/17 23:02	1
Isopropanol	2.9	J	5.0	0.13	ppb v/v			11/17/17 23:02	1
Methylene Chloride	0.17	J	0.50	0.068	ppb v/v			11/17/17 23:02	1
n-Hexane	0.085	J	0.20	0.046	ppb v/v			11/17/17 23:02	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/17/17 23:02	1
2-Butanone	ND		0.50	0.11	ppb v/v			11/17/17 23:02	1
Chloroform	ND		0.20	0.025	ppb v/v			11/17/17 23:02	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/17/17 23:02	1
Cyclohexane	0.15	J	0.20	0.045	ppb v/v			11/17/17 23:02	1
Carbon tetrachloride	0.016	J	0.20	0.011	ppb v/v			11/17/17 23:02	1
2,2,4-Trimethylpentane	ND		0.20	0.043	ppb v/v			11/17/17 23:02	1
Benzene	0.051	J	0.20	0.028	ppb v/v			11/17/17 23:02	1
n-Heptane	ND		0.20	0.068	ppb v/v			11/17/17 23:02	1
Trichloroethene	0.23		0.20	0.0091	ppb v/v			11/17/17 23:02	1
4-Methyl-2-pentanone	ND		0.50	0.065	ppb v/v			11/17/17 23:02	1
Toluene	ND		0.20	0.035	ppb v/v			11/17/17 23:02	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/17/17 23:02	1
Tetrachloroethene	ND		0.20	0.0098	ppb v/v			11/17/17 23:02	1
Ethylbenzene	ND		0.20	0.034	ppb v/v			11/17/17 23:02	1
m,p-Xylene	ND		0.50	0.077	ppb v/v			11/17/17 23:02	1
Xylene, o-	ND		0.20	0.040	ppb v/v			11/17/17 23:02	1
Xylene (total)	ND		0.70	0.040	ppb v/v			11/17/17 23:02	1
Styrene	ND		0.20	0.035	ppb v/v			11/17/17 23:02	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/17/17 23:02	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/17/17 23:02	1
1,2,4-Trimethylbenzene	ND		0.20	0.057	ppb v/v			11/17/17 23:02	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.9	J	2.5	0.23	ug/m3			11/17/17 23:02	1
Chloromethane	0.84	J	1.0	0.33	ug/m3			11/17/17 23:02	1
Trichlorofluoromethane	1.5		1.1	0.17	ug/m3			11/17/17 23:02	1
Trichlorotrifluoroethane	0.26	J	1.5	0.21	ug/m3			11/17/17 23:02	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/17/17 23:02	1
Acetone	37		12	3.1	ug/m3			11/17/17 23:02	1
Isopropanol	7.2	J	12	0.32	ug/m3			11/17/17 23:02	1
Methylene Chloride	0.60	J	1.7	0.24	ug/m3			11/17/17 23:02	1
n-Hexane	0.30	J	0.70	0.16	ug/m3			11/17/17 23:02	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/17/17 23:02	1
2-Butanone	ND		1.5	0.32	ug/m3			11/17/17 23:02	1
Chloroform	ND		0.98	0.12	ug/m3			11/17/17 23:02	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/17/17 23:02	1
Cyclohexane	0.51	J	0.69	0.15	ug/m3			11/17/17 23:02	1
Carbon tetrachloride	0.10	J	1.3	0.069	ug/m3			11/17/17 23:02	1
2,2,4-Trimethylpentane	ND		0.93	0.20	ug/m3			11/17/17 23:02	1

Client Sample ID: SVI-161-1-IA-20171114

Lab Sample ID: 200-40996-1

Date Collected: 11/14/17 11:51
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.16**	**J**	0.64	0.089	ug/m3			11/17/17 23:02	1
n-Heptane	ND		0.82	0.28	ug/m3			11/17/17 23:02	1
Trichloroethene	**1.2**		1.1	0.049	ug/m3			11/17/17 23:02	1
4-Methyl-2-pentanone	ND		2.0	0.27	ug/m3			11/17/17 23:02	1
Toluene	ND		0.75	0.13	ug/m3			11/17/17 23:02	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/17/17 23:02	1
Tetrachloroethene	ND		1.4	0.066	ug/m3			11/17/17 23:02	1
Ethylbenzene	ND		0.87	0.15	ug/m3			11/17/17 23:02	1
m,p-Xylene	ND		2.2	0.33	ug/m3			11/17/17 23:02	1
Xylene, o-	ND		0.87	0.17	ug/m3			11/17/17 23:02	1
Xylene (total)	ND		3.0	0.17	ug/m3			11/17/17 23:02	1
Styrene	ND		0.85	0.15	ug/m3			11/17/17 23:02	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/17/17 23:02	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/17/17 23:02	1
1,2,4-Trimethylbenzene	ND		0.98	0.28	ug/m3			11/17/17 23:02	1

Client Sample ID: SVI-161-1-SS-20171114

Lab Sample ID: 200-40996-2

Date Collected: 11/14/17 12:50
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.61**	**J**	5.0	0.47	ppb v/v			11/17/17 23:55	10
Chloromethane	ND		5.0	1.6	ppb v/v			11/17/17 23:55	10
Trichlorofluoromethane	**9.5**		2.0	0.31	ppb v/v			11/17/17 23:55	10
Trichlorotrifluoroethane	ND		2.0	0.27	ppb v/v			11/17/17 23:55	10
1,1-Dichloroethene	ND		2.0	0.35	ppb v/v			11/17/17 23:55	10
Acetone	ND		50	13	ppb v/v			11/17/17 23:55	10
Isopropanol	ND		50	1.3	ppb v/v			11/17/17 23:55	10
Methylene Chloride	ND		5.0	0.68	ppb v/v			11/17/17 23:55	10
n-Hexane	ND		2.0	0.46	ppb v/v			11/17/17 23:55	10
1,1-Dichloroethane	ND		2.0	0.17	ppb v/v			11/17/17 23:55	10
2-Butanone	ND		5.0	1.1	ppb v/v			11/17/17 23:55	10
Chloroform	**0.30**	**J**	2.0	0.25	ppb v/v			11/17/17 23:55	10
1,1,1-Trichloroethane	**4.1**		2.0	0.26	ppb v/v			11/17/17 23:55	10
Cyclohexane	ND		2.0	0.45	ppb v/v			11/17/17 23:55	10
Carbon tetrachloride	ND		2.0	0.11	ppb v/v			11/17/17 23:55	10
2,2,4-Trimethylpentane	ND		2.0	0.43	ppb v/v			11/17/17 23:55	10
Benzene	ND		2.0	0.28	ppb v/v			11/17/17 23:55	10
n-Heptane	ND		2.0	0.68	ppb v/v			11/17/17 23:55	10
Trichloroethene	**230**		2.0	0.091	ppb v/v			11/17/17 23:55	10
4-Methyl-2-pentanone	**1.1**	**J**	5.0	0.65	ppb v/v			11/17/17 23:55	10
Toluene	**0.66**	**J**	2.0	0.35	ppb v/v			11/17/17 23:55	10
1,1,2-Trichloroethane	ND		2.0	0.17	ppb v/v			11/17/17 23:55	10
Tetrachloroethene	**53**		2.0	0.098	ppb v/v			11/17/17 23:55	10
Ethylbenzene	**19**		2.0	0.34	ppb v/v			11/17/17 23:55	10
m,p-Xylene	**15**		5.0	0.77	ppb v/v			11/17/17 23:55	10
Xylene, o-	**39**		2.0	0.40	ppb v/v			11/17/17 23:55	10

Client Sample ID: SVI-161-1-SS-20171114

Lab Sample ID: 200-40996-2

Date Collected: 11/14/17 12:50
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	**54**		7.0	0.40	ppb v/v			11/17/17 23:55	10
Styrene	ND		2.0	0.35	ppb v/v			11/17/17 23:55	10
4-Ethyltoluene	ND		2.0	0.40	ppb v/v			11/17/17 23:55	10
1,3,5-Trimethylbenzene	ND		2.0	0.40	ppb v/v			11/17/17 23:55	10
1,2,4-Trimethylbenzene	ND		2.0	0.57	ppb v/v			11/17/17 23:55	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**3.0**	**J**	25	2.3	ug/m3			11/17/17 23:55	10
Chloromethane	ND		10	3.3	ug/m3			11/17/17 23:55	10
Trichlorofluoromethane	**53**		11	1.7	ug/m3			11/17/17 23:55	10
Trichlorotrifluoroethane	ND		15	2.1	ug/m3			11/17/17 23:55	10
1,1-Dichloroethene	ND		7.9	1.4	ug/m3			11/17/17 23:55	10
Acetone	ND		120	31	ug/m3			11/17/17 23:55	10
Isopropanol	ND		120	3.2	ug/m3			11/17/17 23:55	10
Methylene Chloride	ND		17	2.4	ug/m3			11/17/17 23:55	10
n-Hexane	ND		7.0	1.6	ug/m3			11/17/17 23:55	10
1,1-Dichloroethane	ND		8.1	0.69	ug/m3			11/17/17 23:55	10
2-Butanone	ND		15	3.2	ug/m3			11/17/17 23:55	10
Chloroform	**1.5**	**J**	9.8	1.2	ug/m3			11/17/17 23:55	10
1,1,1-Trichloroethane	**22**		11	1.4	ug/m3			11/17/17 23:55	10
Cyclohexane	ND		6.9	1.5	ug/m3			11/17/17 23:55	10
Carbon tetrachloride	ND		13	0.69	ug/m3			11/17/17 23:55	10
2,2,4-Trimethylpentane	ND		9.3	2.0	ug/m3			11/17/17 23:55	10
Benzene	ND		6.4	0.89	ug/m3			11/17/17 23:55	10
n-Heptane	ND		8.2	2.8	ug/m3			11/17/17 23:55	10
Trichloroethene	**1200**		11	0.49	ug/m3			11/17/17 23:55	10
4-Methyl-2-pentanone	**4.7**	**J**	20	2.7	ug/m3			11/17/17 23:55	10
Toluene	**2.5**	**J**	7.5	1.3	ug/m3			11/17/17 23:55	10
1,1,2-Trichloroethane	ND		11	0.93	ug/m3			11/17/17 23:55	10
Tetrachloroethene	**360**		14	0.66	ug/m3			11/17/17 23:55	10
Ethylbenzene	**80**		8.7	1.5	ug/m3			11/17/17 23:55	10
m,p-Xylene	**66**		22	3.3	ug/m3			11/17/17 23:55	10
Xylene, o-	**170**		8.7	1.7	ug/m3			11/17/17 23:55	10
Xylene (total)	**230**		30	1.7	ug/m3			11/17/17 23:55	10
Styrene	ND		8.5	1.5	ug/m3			11/17/17 23:55	10
4-Ethyltoluene	ND		9.8	2.0	ug/m3			11/17/17 23:55	10
1,3,5-Trimethylbenzene	ND		9.8	2.0	ug/m3			11/17/17 23:55	10
1,2,4-Trimethylbenzene	ND		9.8	2.8	ug/m3			11/17/17 23:55	10

Client Sample ID: SVI-161-DUP-SS-2-20171114

Lab Sample ID: 200-40996-3

Date Collected: 11/14/17 00:00
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.56**	**J**	5.0	0.47	ppb v/v			11/18/17 00:48	10
Chloromethane	ND		5.0	1.6	ppb v/v			11/18/17 00:48	10
Trichlorofluoromethane	**8.7**		2.0	0.31	ppb v/v			11/18/17 00:48	10

Client Sample ID: SVI-161-DUP-SS-2-20171114
Lab Sample ID: 200-40996-3
Date Collected: 11/14/17 00:00
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorotrifluoroethane	ND		2.0	0.27	ppb v/v			11/18/17 00:48	10
1,1-Dichloroethene	ND		2.0	0.35	ppb v/v			11/18/17 00:48	10
Acetone	ND		50	13	ppb v/v			11/18/17 00:48	10
Isopropanol	**2.1**	**J**	50	1.3	ppb v/v			11/18/17 00:48	10
Methylene Chloride	ND		5.0	0.68	ppb v/v			11/18/17 00:48	10
n-Hexane	ND		2.0	0.46	ppb v/v			11/18/17 00:48	10
1,1-Dichloroethane	ND		2.0	0.17	ppb v/v			11/18/17 00:48	10
2-Butanone	ND		5.0	1.1	ppb v/v			11/18/17 00:48	10
Chloroform	ND		2.0	0.25	ppb v/v			11/18/17 00:48	10
1,1,1-Trichloroethane	**4.5**		2.0	0.26	ppb v/v			11/18/17 00:48	10
Cyclohexane	ND		2.0	0.45	ppb v/v			11/18/17 00:48	10
Carbon tetrachloride	ND		2.0	0.11	ppb v/v			11/18/17 00:48	10
2,2,4-Trimethylpentane	ND		2.0	0.43	ppb v/v			11/18/17 00:48	10
Benzene	ND		2.0	0.28	ppb v/v			11/18/17 00:48	10
n-Heptane	ND		2.0	0.68	ppb v/v			11/18/17 00:48	10
Trichloroethene	**250**		2.0	0.091	ppb v/v			11/18/17 00:48	10
4-Methyl-2-pentanone	**1.3**	**J**	5.0	0.65	ppb v/v			11/18/17 00:48	10
Toluene	**0.51**	**J**	2.0	0.35	ppb v/v			11/18/17 00:48	10
1,1,2-Trichloroethane	ND		2.0	0.17	ppb v/v			11/18/17 00:48	10
Tetrachloroethene	**49**		2.0	0.098	ppb v/v			11/18/17 00:48	10
Ethylbenzene	**18**		2.0	0.34	ppb v/v			11/18/17 00:48	10
m,p-Xylene	**15**		5.0	0.77	ppb v/v			11/18/17 00:48	10
Xylene, o-	**41**		2.0	0.40	ppb v/v			11/18/17 00:48	10
Xylene (total)	**56**		7.0	0.40	ppb v/v			11/18/17 00:48	10
Styrene	ND		2.0	0.35	ppb v/v			11/18/17 00:48	10
4-Ethyltoluene	ND		2.0	0.40	ppb v/v			11/18/17 00:48	10
1,3,5-Trimethylbenzene	ND		2.0	0.40	ppb v/v			11/18/17 00:48	10
1,2,4-Trimethylbenzene	ND		2.0	0.57	ppb v/v			11/18/17 00:48	10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.8**	**J**	25	2.3	ug/m3			11/18/17 00:48	10
Chloromethane	ND		10	3.3	ug/m3			11/18/17 00:48	10
Trichlorofluoromethane	**49**		11	1.7	ug/m3			11/18/17 00:48	10
Trichlorotrifluoroethane	ND		15	2.1	ug/m3			11/18/17 00:48	10
1,1-Dichloroethene	ND		7.9	1.4	ug/m3			11/18/17 00:48	10
Acetone	ND		120	31	ug/m3			11/18/17 00:48	10
Isopropanol	**5.2**	**J**	120	3.2	ug/m3			11/18/17 00:48	10
Methylene Chloride	ND		17	2.4	ug/m3			11/18/17 00:48	10
n-Hexane	ND		7.0	1.6	ug/m3			11/18/17 00:48	10
1,1-Dichloroethane	ND		8.1	0.69	ug/m3			11/18/17 00:48	10
2-Butanone	ND		15	3.2	ug/m3			11/18/17 00:48	10
Chloroform	ND		9.8	1.2	ug/m3			11/18/17 00:48	10
1,1,1-Trichloroethane	**25**		11	1.4	ug/m3			11/18/17 00:48	10
Cyclohexane	ND		6.9	1.5	ug/m3			11/18/17 00:48	10
Carbon tetrachloride	ND		13	0.69	ug/m3			11/18/17 00:48	10
2,2,4-Trimethylpentane	ND		9.3	2.0	ug/m3			11/18/17 00:48	10
Benzene	ND		6.4	0.89	ug/m3			11/18/17 00:48	10
n-Heptane	ND		8.2	2.8	ug/m3			11/18/17 00:48	10
Trichloroethene	**1300**		11	0.49	ug/m3			11/18/17 00:48	10

Client Sample ID: SVI-161-DUP-SS-2-20171114 **Lab Sample ID: 200-40996-3**
Date Collected: 11/14/17 00:00 **Matrix: Air**
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	5.5	J	20	2.7	ug/m3			11/18/17 00:48	10
Toluene	1.9	J	7.5	1.3	ug/m3			11/18/17 00:48	10
1,1,2-Trichloroethane	ND		11	0.93	ug/m3			11/18/17 00:48	10
Tetrachloroethene	330		14	0.66	ug/m3			11/18/17 00:48	10
Ethylbenzene	79		8.7	1.5	ug/m3			11/18/17 00:48	10
m,p-Xylene	66		22	3.3	ug/m3			11/18/17 00:48	10
Xylene, o-	180		8.7	1.7	ug/m3			11/18/17 00:48	10
Xylene (total)	240		30	1.7	ug/m3			11/18/17 00:48	10
Styrene	ND		8.5	1.5	ug/m3			11/18/17 00:48	10
4-Ethyltoluene	ND		9.8	2.0	ug/m3			11/18/17 00:48	10
1,3,5-Trimethylbenzene	ND		9.8	2.0	ug/m3			11/18/17 00:48	10
1,2,4-Trimethylbenzene	ND		9.8	2.8	ug/m3			11/18/17 00:48	10

Client Sample ID: SVI-301-1-IA-20171114 **Lab Sample ID: 200-40996-4**
Date Collected: 11/14/17 12:17 **Matrix: Air**
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.1	J	2.5	0.24	ppb v/v			11/20/17 15:32	5
Chloromethane	ND		2.5	0.80	ppb v/v			11/20/17 15:32	5
Trichlorofluoromethane	2.9		1.0	0.16	ppb v/v			11/20/17 15:32	5
Trichlorotrifluoroethane	ND		1.0	0.14	ppb v/v			11/20/17 15:32	5
1,1-Dichloroethene	ND		1.0	0.18	ppb v/v			11/20/17 15:32	5
Acetone	13	J	25	6.5	ppb v/v			11/20/17 15:32	5
Isopropanol	5.3	J	25	0.65	ppb v/v			11/20/17 15:32	5
Methylene Chloride	ND		2.5	0.34	ppb v/v			11/20/17 15:32	5
n-Hexane	12		1.0	0.23	ppb v/v			11/20/17 15:32	5
1,1-Dichloroethane	ND		1.0	0.085	ppb v/v			11/20/17 15:32	5
2-Butanone	1.2	J	2.5	0.55	ppb v/v			11/20/17 15:32	5
Chloroform	ND		1.0	0.13	ppb v/v			11/20/17 15:32	5
1,1,1-Trichloroethane	ND		1.0	0.13	ppb v/v			11/20/17 15:32	5
Cyclohexane	5.2		1.0	0.23	ppb v/v			11/20/17 15:32	5
Carbon tetrachloride	ND		1.0	0.055	ppb v/v			11/20/17 15:32	5
2,2,4-Trimethylpentane	9.6		1.0	0.22	ppb v/v			11/20/17 15:32	5
Benzene	3.7		1.0	0.14	ppb v/v			11/20/17 15:32	5
n-Heptane	7.0		1.0	0.34	ppb v/v			11/20/17 15:32	5
Trichloroethene	0.76	J	1.0	0.046	ppb v/v			11/20/17 15:32	5
4-Methyl-2-pentanone	16		2.5	0.33	ppb v/v			11/20/17 15:32	5
Toluene	17		1.0	0.18	ppb v/v			11/20/17 15:32	5
1,1,2-Trichloroethane	ND		1.0	0.085	ppb v/v			11/20/17 15:32	5
Tetrachloroethene	110		1.0	0.049	ppb v/v			11/20/17 15:32	5
Ethylbenzene	3.8		1.0	0.17	ppb v/v			11/20/17 15:32	5
m,p-Xylene	15		2.5	0.39	ppb v/v			11/20/17 15:32	5
Xylene, o-	5.0		1.0	0.20	ppb v/v			11/20/17 15:32	5
Xylene (total)	20		3.5	0.20	ppb v/v			11/20/17 15:32	5
Styrene	1.0		1.0	0.18	ppb v/v			11/20/17 15:32	5
4-Ethyltoluene	1.5		1.0	0.20	ppb v/v			11/20/17 15:32	5

Client Sample ID: SVI-301-1-IA-20171114

Lab Sample ID: 200-40996-4

Date Collected: 11/14/17 12:17
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	**1.7**		1.0	0.20	ppb v/v			11/20/17 15:32	5
1,2,4-Trimethylbenzene	**5.5**		1.0	0.29	ppb v/v			11/20/17 15:32	5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**5.5**	**J**	12	1.2	ug/m3			11/20/17 15:32	5
Chloromethane	ND		5.2	1.7	ug/m3			11/20/17 15:32	5
Trichlorofluoromethane	**16**		5.6	0.87	ug/m3			11/20/17 15:32	5
Trichlorotrifluoroethane	ND		7.7	1.0	ug/m3			11/20/17 15:32	5
1,1-Dichloroethene	ND		4.0	0.69	ug/m3			11/20/17 15:32	5
Acetone	**32**	**J**	59	15	ug/m3			11/20/17 15:32	5
Isopropanol	**13**	**J**	61	1.6	ug/m3			11/20/17 15:32	5
Methylene Chloride	ND		8.7	1.2	ug/m3			11/20/17 15:32	5
n-Hexane	**41**		3.5	0.81	ug/m3			11/20/17 15:32	5
1,1-Dichloroethane	ND		4.0	0.34	ug/m3			11/20/17 15:32	5
2-Butanone	**3.4**	**J**	7.4	1.6	ug/m3			11/20/17 15:32	5
Chloroform	ND		4.9	0.61	ug/m3			11/20/17 15:32	5
1,1,1-Trichloroethane	ND		5.5	0.71	ug/m3			11/20/17 15:32	5
Cyclohexane	**18**		3.4	0.77	ug/m3			11/20/17 15:32	5
Carbon tetrachloride	ND		6.3	0.35	ug/m3			11/20/17 15:32	5
2,2,4-Trimethylpentane	**45**		4.7	1.0	ug/m3			11/20/17 15:32	5
Benzene	**12**		3.2	0.45	ug/m3			11/20/17 15:32	5
n-Heptane	**29**		4.1	1.4	ug/m3			11/20/17 15:32	5
Trichloroethene	**4.1**	**J**	5.4	0.24	ug/m3			11/20/17 15:32	5
4-Methyl-2-pentanone	**66**		10	1.3	ug/m3			11/20/17 15:32	5
Toluene	**63**		3.8	0.66	ug/m3			11/20/17 15:32	5
1,1,2-Trichloroethane	ND		5.5	0.46	ug/m3			11/20/17 15:32	5
Tetrachloroethene	**770**		6.8	0.33	ug/m3			11/20/17 15:32	5
Ethylbenzene	**17**		4.3	0.74	ug/m3			11/20/17 15:32	5
m,p-Xylene	**63**		11	1.7	ug/m3			11/20/17 15:32	5
Xylene, o-	**22**		4.3	0.87	ug/m3			11/20/17 15:32	5
Xylene (total)	**87**		15	0.87	ug/m3			11/20/17 15:32	5
Styrene	**4.4**		4.3	0.75	ug/m3			11/20/17 15:32	5
4-Ethyltoluene	**7.6**		4.9	0.98	ug/m3			11/20/17 15:32	5
1,3,5-Trimethylbenzene	**8.2**		4.9	0.98	ug/m3			11/20/17 15:32	5
1,2,4-Trimethylbenzene	**27**		4.9	1.4	ug/m3			11/20/17 15:32	5

Client Sample ID: SVI-301-1-SS-20171114

Lab Sample ID: 200-40996-5

Date Collected: 11/14/17 11:45
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		10	0.94	ppb v/v			11/18/17 02:35	20
Chloromethane	ND		10	3.2	ppb v/v			11/18/17 02:35	20
Trichlorofluoromethane	**29**		4.0	0.62	ppb v/v			11/18/17 02:35	20
Trichlorotrifluoroethane	ND		4.0	0.54	ppb v/v			11/18/17 02:35	20
1,1-Dichloroethene	ND		4.0	0.70	ppb v/v			11/18/17 02:35	20
Acetone	ND		100	26	ppb v/v			11/18/17 02:35	20

Client Sample ID: SVI-301-1-SS-20171114
Lab Sample ID: 200-40996-5
Date Collected: 11/14/17 11:45
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropanol	ND		100	2.6	ppb v/v			11/18/17 02:35	20
Methylene Chloride	ND		10	1.4	ppb v/v			11/18/17 02:35	20
n-Hexane	ND		4.0	0.92	ppb v/v			11/18/17 02:35	20
1,1-Dichloroethane	**3.1**	**J**	4.0	0.34	ppb v/v			11/18/17 02:35	20
2-Butanone	ND		10	2.2	ppb v/v			11/18/17 02:35	20
Chloroform	**8.8**		4.0	0.50	ppb v/v			11/18/17 02:35	20
1,1,1-Trichloroethane	**2.8**	**J**	4.0	0.52	ppb v/v			11/18/17 02:35	20
Cyclohexane	ND		4.0	0.90	ppb v/v			11/18/17 02:35	20
Carbon tetrachloride	ND		4.0	0.22	ppb v/v			11/18/17 02:35	20
2,2,4-Trimethylpentane	ND		4.0	0.86	ppb v/v			11/18/17 02:35	20
Benzene	**0.73**	**J**	4.0	0.56	ppb v/v			11/18/17 02:35	20
n-Heptane	ND		4.0	1.4	ppb v/v			11/18/17 02:35	20
Trichloroethene	**550**		4.0	0.18	ppb v/v			11/18/17 02:35	20
4-Methyl-2-pentanone	ND		10	1.3	ppb v/v			11/18/17 02:35	20
Toluene	ND		4.0	0.70	ppb v/v			11/18/17 02:35	20
1,1,2-Trichloroethane	ND		4.0	0.34	ppb v/v			11/18/17 02:35	20
Tetrachloroethene	**62**		4.0	0.20	ppb v/v			11/18/17 02:35	20
Ethylbenzene	ND		4.0	0.68	ppb v/v			11/18/17 02:35	20
m,p-Xylene	ND		10	1.5	ppb v/v			11/18/17 02:35	20
Xylene, o-	ND		4.0	0.80	ppb v/v			11/18/17 02:35	20
Xylene (total)	ND		14	0.80	ppb v/v			11/18/17 02:35	20
Styrene	ND		4.0	0.70	ppb v/v			11/18/17 02:35	20
4-Ethyltoluene	ND		4.0	0.80	ppb v/v			11/18/17 02:35	20
1,3,5-Trimethylbenzene	ND		4.0	0.80	ppb v/v			11/18/17 02:35	20
1,2,4-Trimethylbenzene	ND		4.0	1.1	ppb v/v			11/18/17 02:35	20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		49	4.6	ug/m3			11/18/17 02:35	20
Chloromethane	ND		21	6.6	ug/m3			11/18/17 02:35	20
Trichlorofluoromethane	**160**		22	3.5	ug/m3			11/18/17 02:35	20
Trichlorotrifluoroethane	ND		31	4.1	ug/m3			11/18/17 02:35	20
1,1-Dichloroethene	ND		16	2.8	ug/m3			11/18/17 02:35	20
Acetone	ND		240	62	ug/m3			11/18/17 02:35	20
Isopropanol	ND		250	6.4	ug/m3			11/18/17 02:35	20
Methylene Chloride	ND		35	4.7	ug/m3			11/18/17 02:35	20
n-Hexane	ND		14	3.2	ug/m3			11/18/17 02:35	20
1,1-Dichloroethane	**12**	**J**	16	1.4	ug/m3			11/18/17 02:35	20
2-Butanone	ND		29	6.5	ug/m3			11/18/17 02:35	20
Chloroform	**43**		20	2.4	ug/m3			11/18/17 02:35	20
1,1,1-Trichloroethane	**15**	**J**	22	2.8	ug/m3			11/18/17 02:35	20
Cyclohexane	ND		14	3.1	ug/m3			11/18/17 02:35	20
Carbon tetrachloride	ND		25	1.4	ug/m3			11/18/17 02:35	20
2,2,4-Trimethylpentane	ND		19	4.0	ug/m3			11/18/17 02:35	20
Benzene	**2.3**	**J**	13	1.8	ug/m3			11/18/17 02:35	20
n-Heptane	ND		16	5.6	ug/m3			11/18/17 02:35	20
Trichloroethene	**3000**		21	0.98	ug/m3			11/18/17 02:35	20
4-Methyl-2-pentanone	ND		41	5.3	ug/m3			11/18/17 02:35	20
Toluene	ND		15	2.6	ug/m3			11/18/17 02:35	20
1,1,2-Trichloroethane	ND		22	1.9	ug/m3			11/18/17 02:35	20

Client Sample ID: SVI-301-1-SS-20171114

Lab Sample ID: 200-40996-5
Matrix: Air
Date Collected: 11/14/17 11:45
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**420**		27	1.3	ug/m3			11/18/17 02:35	20
Ethylbenzene	ND		17	3.0	ug/m3			11/18/17 02:35	20
m,p-Xylene	ND		43	6.7	ug/m3			11/18/17 02:35	20
Xylene, o-	ND		17	3.5	ug/m3			11/18/17 02:35	20
Xylene (total)	ND		61	3.5	ug/m3			11/18/17 02:35	20
Styrene	ND		17	3.0	ug/m3			11/18/17 02:35	20
4-Ethyltoluene	ND		20	3.9	ug/m3			11/18/17 02:35	20
1,3,5-Trimethylbenzene	ND		20	3.9	ug/m3			11/18/17 02:35	20
1,2,4-Trimethylbenzene	ND		20	5.6	ug/m3			11/18/17 02:35	20

Client Sample ID: SVI-301-4-OA-20171114

Lab Sample ID: 200-40996-6
Matrix: Air
Date Collected: 11/14/17 12:15
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.42**	**J**	0.50	0.047	ppb v/v			11/20/17 16:25	1
Chloromethane	**0.42**	**J**	0.50	0.16	ppb v/v			11/20/17 16:25	1
Trichlorofluoromethane	**0.24**		0.20	0.031	ppb v/v			11/20/17 16:25	1
Trichlorotrifluoroethane	**0.060**	**J**	0.20	0.027	ppb v/v			11/20/17 16:25	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 16:25	1
Acetone	**4.2**	**J**	5.0	1.3	ppb v/v			11/20/17 16:25	1
Isopropanol	**3.0**	**J**	5.0	0.13	ppb v/v			11/20/17 16:25	1
Methylene Chloride	**0.093**	**J**	0.50	0.068	ppb v/v			11/20/17 16:25	1
n-Hexane	**0.18**	**J**	0.20	0.046	ppb v/v			11/20/17 16:25	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 16:25	1
2-Butanone	**0.35**	**J**	0.50	0.11	ppb v/v			11/20/17 16:25	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 16:25	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 16:25	1
Cyclohexane	**0.056**	**J**	0.20	0.045	ppb v/v			11/20/17 16:25	1
Carbon tetrachloride	**0.060**	**J**	0.20	0.011	ppb v/v			11/20/17 16:25	1
2,2,4-Trimethylpentane	**0.12**	**J**	0.20	0.043	ppb v/v			11/20/17 16:25	1
Benzene	**0.17**	**J**	0.20	0.028	ppb v/v			11/20/17 16:25	1
n-Heptane	**0.098**	**J**	0.20	0.068	ppb v/v			11/20/17 16:25	1
Trichloroethene	**1.2**		0.20	0.0091	ppb v/v			11/20/17 16:25	1
4-Methyl-2-pentanone	**0.14**	**J**	0.50	0.065	ppb v/v			11/20/17 16:25	1
Toluene	**0.31**		0.20	0.035	ppb v/v			11/20/17 16:25	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 16:25	1
Tetrachloroethene	**0.67**		0.20	0.0098	ppb v/v			11/20/17 16:25	1
Ethylbenzene	**0.070**	**J**	0.20	0.034	ppb v/v			11/20/17 16:25	1
m,p-Xylene	**0.24**	**J**	0.50	0.077	ppb v/v			11/20/17 16:25	1
Xylene, o-	**0.083**	**J**	0.20	0.040	ppb v/v			11/20/17 16:25	1
Xylene (total)	**0.32**	**J**	0.70	0.040	ppb v/v			11/20/17 16:25	1
Styrene	ND		0.20	0.035	ppb v/v			11/20/17 16:25	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/20/17 16:25	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/20/17 16:25	1
1,2,4-Trimethylbenzene	**0.061**	**J**	0.20	0.057	ppb v/v			11/20/17 16:25	1

Client Sample ID: SVI-301-4-OA-20171114

Lab Sample ID: 200-40996-6

Date Collected: 11/14/17 12:15
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	2.1	J	2.5	0.23	ug/m3			11/20/17 16:25	1
Chloromethane	0.87	J	1.0	0.33	ug/m3			11/20/17 16:25	1
Trichlorofluoromethane	1.4		1.1	0.17	ug/m3			11/20/17 16:25	1
Trichlorotrifluoroethane	0.46	J	1.5	0.21	ug/m3			11/20/17 16:25	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 16:25	1
Acetone	9.9	J	12	3.1	ug/m3			11/20/17 16:25	1
Isopropanol	7.3	J	12	0.32	ug/m3			11/20/17 16:25	1
Methylene Chloride	0.32	J	1.7	0.24	ug/m3			11/20/17 16:25	1
n-Hexane	0.62	J	0.70	0.16	ug/m3			11/20/17 16:25	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 16:25	1
2-Butanone	1.0	J	1.5	0.32	ug/m3			11/20/17 16:25	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 16:25	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 16:25	1
Cyclohexane	0.19	J	0.69	0.15	ug/m3			11/20/17 16:25	1
Carbon tetrachloride	0.37	J	1.3	0.069	ug/m3			11/20/17 16:25	1
2,2,4-Trimethylpentane	0.57	J	0.93	0.20	ug/m3			11/20/17 16:25	1
Benzene	0.56	J	0.64	0.089	ug/m3			11/20/17 16:25	1
n-Heptane	0.40	J	0.82	0.28	ug/m3			11/20/17 16:25	1
Trichloroethene	6.5		1.1	0.049	ug/m3			11/20/17 16:25	1
4-Methyl-2-pentanone	0.56	J	2.0	0.27	ug/m3			11/20/17 16:25	1
Toluene	1.2		0.75	0.13	ug/m3			11/20/17 16:25	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 16:25	1
Tetrachloroethene	4.5		1.4	0.066	ug/m3			11/20/17 16:25	1
Ethylbenzene	0.30	J	0.87	0.15	ug/m3			11/20/17 16:25	1
m,p-Xylene	1.0	J	2.2	0.33	ug/m3			11/20/17 16:25	1
Xylene, o-	0.36	J	0.87	0.17	ug/m3			11/20/17 16:25	1
Xylene (total)	1.4	J	3.0	0.17	ug/m3			11/20/17 16:25	1
Styrene	ND		0.85	0.15	ug/m3			11/20/17 16:25	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/20/17 16:25	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/20/17 16:25	1
1,2,4-Trimethylbenzene	0.30	J	0.98	0.28	ug/m3			11/20/17 16:25	1

Client Sample ID: SVI-161-3-IA-20171114

Lab Sample ID: 200-40996-7

Date Collected: 11/14/17 12:37
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.38	J	0.50	0.047	ppb v/v			11/20/17 17:19	1
Chloromethane	0.47	J	0.50	0.16	ppb v/v			11/20/17 17:19	1
Trichlorofluoromethane	0.20		0.20	0.031	ppb v/v			11/20/17 17:19	1
Trichlorotrifluoroethane	0.063	J	0.20	0.027	ppb v/v			11/20/17 17:19	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 17:19	1
Acetone	8.0		5.0	1.3	ppb v/v			11/20/17 17:19	1
Isopropanol	3.5	J	5.0	0.13	ppb v/v			11/20/17 17:19	1
Methylene Chloride	0.13	J	0.50	0.068	ppb v/v			11/20/17 17:19	1
n-Hexane	3.1		0.20	0.046	ppb v/v			11/20/17 17:19	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 17:19	1
2-Butanone	1.2		0.50	0.11	ppb v/v			11/20/17 17:19	1

Client Sample ID: SVI-161-3-IA-20171114
Lab Sample ID: 200-40996-7
Date Collected: 11/14/17 12:37
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 17:19	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 17:19	1
Cyclohexane	**1.1**		0.20	0.045	ppb v/v			11/20/17 17:19	1
Carbon tetrachloride	**0.061**	**J**	0.20	0.011	ppb v/v			11/20/17 17:19	1
2,2,4-Trimethylpentane	**4.1**		0.20	0.043	ppb v/v			11/20/17 17:19	1
Benzene	**1.8**		0.20	0.028	ppb v/v			11/20/17 17:19	1
n-Heptane	**1.5**		0.20	0.068	ppb v/v			11/20/17 17:19	1
Trichloroethene	**0.63**		0.20	0.0091	ppb v/v			11/20/17 17:19	1
4-Methyl-2-pentanone	**0.70**		0.50	0.065	ppb v/v			11/20/17 17:19	1
Toluene	**7.6**		0.20	0.035	ppb v/v			11/20/17 17:19	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 17:19	1
Tetrachloroethene	**0.45**		0.20	0.0098	ppb v/v			11/20/17 17:19	1
Ethylbenzene	**1.2**		0.20	0.034	ppb v/v			11/20/17 17:19	1
m,p-Xylene	**3.8**		0.50	0.077	ppb v/v			11/20/17 17:19	1
Xylene, o-	**1.5**		0.20	0.040	ppb v/v			11/20/17 17:19	1
Xylene (total)	**5.3**		0.70	0.040	ppb v/v			11/20/17 17:19	1
Styrene	**0.085**	**J**	0.20	0.035	ppb v/v			11/20/17 17:19	1
4-Ethyltoluene	**0.39**		0.20	0.040	ppb v/v			11/20/17 17:19	1
1,3,5-Trimethylbenzene	**0.36**		0.20	0.040	ppb v/v			11/20/17 17:19	1
1,2,4-Trimethylbenzene	**1.1**		0.20	0.057	ppb v/v			11/20/17 17:19	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.9**	**J**	2.5	0.23	ug/m3			11/20/17 17:19	1
Chloromethane	**0.98**	**J**	1.0	0.33	ug/m3			11/20/17 17:19	1
Trichlorofluoromethane	**1.1**		1.1	0.17	ug/m3			11/20/17 17:19	1
Trichlorotrifluoroethane	**0.49**	**J**	1.5	0.21	ug/m3			11/20/17 17:19	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 17:19	1
Acetone	**19**		12	3.1	ug/m3			11/20/17 17:19	1
Isopropanol	**8.6**	**J**	12	0.32	ug/m3			11/20/17 17:19	1
Methylene Chloride	**0.44**	**J**	1.7	0.24	ug/m3			11/20/17 17:19	1
n-Hexane	**11**		0.70	0.16	ug/m3			11/20/17 17:19	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 17:19	1
2-Butanone	**3.6**		1.5	0.32	ug/m3			11/20/17 17:19	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 17:19	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 17:19	1
Cyclohexane	**3.9**		0.69	0.15	ug/m3			11/20/17 17:19	1
Carbon tetrachloride	**0.39**	**J**	1.3	0.069	ug/m3			11/20/17 17:19	1
2,2,4-Trimethylpentane	**19**		0.93	0.20	ug/m3			11/20/17 17:19	1
Benzene	**5.7**		0.64	0.089	ug/m3			11/20/17 17:19	1
n-Heptane	**6.3**		0.82	0.28	ug/m3			11/20/17 17:19	1
Trichloroethene	**3.4**		1.1	0.049	ug/m3			11/20/17 17:19	1
4-Methyl-2-pentanone	**2.9**		2.0	0.27	ug/m3			11/20/17 17:19	1
Toluene	**28**		0.75	0.13	ug/m3			11/20/17 17:19	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 17:19	1
Tetrachloroethene	**3.1**		1.4	0.066	ug/m3			11/20/17 17:19	1
Ethylbenzene	**5.1**		0.87	0.15	ug/m3			11/20/17 17:19	1
m,p-Xylene	**17**		2.2	0.33	ug/m3			11/20/17 17:19	1
Xylene, o-	**6.4**		0.87	0.17	ug/m3			11/20/17 17:19	1
Xylene (total)	**23**		3.0	0.17	ug/m3			11/20/17 17:19	1

Client Sample ID: SVI-161-3-IA-20171114

Lab Sample ID: 200-40996-7

Date Collected: 11/14/17 12:37
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	0.36	J	0.85	0.15	ug/m3			11/20/17 17:19	1
4-Ethyltoluene	1.9		0.98	0.20	ug/m3			11/20/17 17:19	1
1,3,5-Trimethylbenzene	1.8		0.98	0.20	ug/m3			11/20/17 17:19	1
1,2,4-Trimethylbenzene	5.6		0.98	0.28	ug/m3			11/20/17 17:19	1

Client Sample ID: SVI-161-4-IA-20171114

Lab Sample ID: 200-40996-8

Date Collected: 11/14/17 12:36
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.39	J	0.50	0.047	ppb v/v			11/20/17 18:12	1
Chloromethane	0.43	J	0.50	0.16	ppb v/v			11/20/17 18:12	1
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v			11/20/17 18:12	1
Trichlorotrifluoroethane	0.064	J	0.20	0.027	ppb v/v			11/20/17 18:12	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 18:12	1
Acetone	6.3		5.0	1.3	ppb v/v			11/20/17 18:12	1
Isopropanol	3.4	J	5.0	0.13	ppb v/v			11/20/17 18:12	1
Methylene Chloride	0.12	J	0.50	0.068	ppb v/v			11/20/17 18:12	1
n-Hexane	3.2		0.20	0.046	ppb v/v			11/20/17 18:12	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 18:12	1
2-Butanone	0.81		0.50	0.11	ppb v/v			11/20/17 18:12	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 18:12	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 18:12	1
Cyclohexane	1.1		0.20	0.045	ppb v/v			11/20/17 18:12	1
Carbon tetrachloride	0.066	J	0.20	0.011	ppb v/v			11/20/17 18:12	1
2,2,4-Trimethylpentane	4.2		0.20	0.043	ppb v/v			11/20/17 18:12	1
Benzene	1.8		0.20	0.028	ppb v/v			11/20/17 18:12	1
n-Heptane	1.5		0.20	0.068	ppb v/v			11/20/17 18:12	1
Trichloroethene	0.57		0.20	0.0091	ppb v/v			11/20/17 18:12	1
4-Methyl-2-pentanone	0.68		0.50	0.065	ppb v/v			11/20/17 18:12	1
Toluene	7.2		0.20	0.035	ppb v/v			11/20/17 18:12	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 18:12	1
Tetrachloroethene	0.28		0.20	0.0098	ppb v/v			11/20/17 18:12	1
Ethylbenzene	1.2		0.20	0.034	ppb v/v			11/20/17 18:12	1
m,p-Xylene	3.9		0.50	0.077	ppb v/v			11/20/17 18:12	1
Xylene, o-	1.6		0.20	0.040	ppb v/v			11/20/17 18:12	1
Xylene (total)	5.5		0.70	0.040	ppb v/v			11/20/17 18:12	1
Styrene	0.12	J	0.20	0.035	ppb v/v			11/20/17 18:12	1
4-Ethyltoluene	0.43		0.20	0.040	ppb v/v			11/20/17 18:12	1
1,3,5-Trimethylbenzene	0.42		0.20	0.040	ppb v/v			11/20/17 18:12	1
1,2,4-Trimethylbenzene	1.6		0.20	0.057	ppb v/v			11/20/17 18:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.9	J	2.5	0.23	ug/m3			11/20/17 18:12	1
Chloromethane	0.89	J	1.0	0.33	ug/m3			11/20/17 18:12	1
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3			11/20/17 18:12	1
Trichlorotrifluoroethane	0.49	J	1.5	0.21	ug/m3			11/20/17 18:12	1

Client Sample ID: SVI-161-4-IA-20171114

Lab Sample ID: 200-40996-8

Date Collected: 11/14/17 12:36
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 18:12	1
Acetone	**15**		12	3.1	ug/m3			11/20/17 18:12	1
Isopropanol	**8.3**	**J**	12	0.32	ug/m3			11/20/17 18:12	1
Methylene Chloride	**0.40**	**J**	1.7	0.24	ug/m3			11/20/17 18:12	1
n-Hexane	**11**		0.70	0.16	ug/m3			11/20/17 18:12	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 18:12	1
2-Butanone	**2.4**		1.5	0.32	ug/m3			11/20/17 18:12	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 18:12	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 18:12	1
Cyclohexane	**3.8**		0.69	0.15	ug/m3			11/20/17 18:12	1
Carbon tetrachloride	**0.42**	**J**	1.3	0.069	ug/m3			11/20/17 18:12	1
2,2,4-Trimethylpentane	**20**		0.93	0.20	ug/m3			11/20/17 18:12	1
Benzene	**5.7**		0.64	0.089	ug/m3			11/20/17 18:12	1
n-Heptane	**6.1**		0.82	0.28	ug/m3			11/20/17 18:12	1
Trichloroethene	**3.1**		1.1	0.049	ug/m3			11/20/17 18:12	1
4-Methyl-2-pentanone	**2.8**		2.0	0.27	ug/m3			11/20/17 18:12	1
Toluene	**27**		0.75	0.13	ug/m3			11/20/17 18:12	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 18:12	1
Tetrachloroethene	**1.9**		1.4	0.066	ug/m3			11/20/17 18:12	1
Ethylbenzene	**5.2**		0.87	0.15	ug/m3			11/20/17 18:12	1
m,p-Xylene	**17**		2.2	0.33	ug/m3			11/20/17 18:12	1
Xylene, o-	**6.7**		0.87	0.17	ug/m3			11/20/17 18:12	1
Xylene (total)	**24**		3.0	0.17	ug/m3			11/20/17 18:12	1
Styrene	**0.51**	**J**	0.85	0.15	ug/m3			11/20/17 18:12	1
4-Ethyltoluene	**2.1**		0.98	0.20	ug/m3			11/20/17 18:12	1
1,3,5-Trimethylbenzene	**2.1**		0.98	0.20	ug/m3			11/20/17 18:12	1
1,2,4-Trimethylbenzene	**7.7**		0.98	0.28	ug/m3			11/20/17 18:12	1

Client Sample ID: SVI-301-3-SS-20171114

Lab Sample ID: 200-40996-9

Date Collected: 11/14/17 12:30
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.2**	**J**	8.5	0.80	ppb v/v			11/18/17 06:07	16.96
Chloromethane	ND		8.5	2.7	ppb v/v			11/18/17 06:07	16.96
Trichlorofluoromethane	**84**		3.4	0.53	ppb v/v			11/18/17 06:07	16.96
Trichlorotrifluoroethane	ND		3.4	0.46	ppb v/v			11/18/17 06:07	16.96
1,1-Dichloroethene	ND		3.4	0.59	ppb v/v			11/18/17 06:07	16.96
Acetone	ND		85	22	ppb v/v			11/18/17 06:07	16.96
Isopropanol	ND		85	2.2	ppb v/v			11/18/17 06:07	16.96
Methylene Chloride	ND		8.5	1.2	ppb v/v			11/18/17 06:07	16.96
n-Hexane	ND		3.4	0.78	ppb v/v			11/18/17 06:07	16.96
1,1-Dichloroethane	ND		3.4	0.29	ppb v/v			11/18/17 06:07	16.96
2-Butanone	ND		8.5	1.9	ppb v/v			11/18/17 06:07	16.96
Chloroform	**1.0**	**J**	3.4	0.42	ppb v/v			11/18/17 06:07	16.96
1,1,1-Trichloroethane	**5.9**		3.4	0.44	ppb v/v			11/18/17 06:07	16.96
Cyclohexane	ND		3.4	0.76	ppb v/v			11/18/17 06:07	16.96

Client Sample ID: SVI-301-3-SS-20171114
Date Collected: 11/14/17 12:30
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-40996-9
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		3.4	0.19	ppb v/v			11/18/17 06:07	16.96
2,2,4-Trimethylpentane	ND		3.4	0.73	ppb v/v			11/18/17 06:07	16.96
Benzene	**0.60**	**J**	3.4	0.47	ppb v/v			11/18/17 06:07	16.96
n-Heptane	ND		3.4	1.2	ppb v/v			11/18/17 06:07	16.96
Trichloroethene	**470**		3.4	0.15	ppb v/v			11/18/17 06:07	16.96
4-Methyl-2-pentanone	ND		8.5	1.1	ppb v/v			11/18/17 06:07	16.96
Toluene	**11**		3.4	0.59	ppb v/v			11/18/17 06:07	16.96
1,1,2-Trichloroethane	ND		3.4	0.29	ppb v/v			11/18/17 06:07	16.96
Tetrachloroethene	**87**		3.4	0.17	ppb v/v			11/18/17 06:07	16.96
Ethylbenzene	**4.6**		3.4	0.58	ppb v/v			11/18/17 06:07	16.96
m,p-Xylene	**54**		8.5	1.3	ppb v/v			11/18/17 06:07	16.96
Xylene, o-	**36**		3.4	0.68	ppb v/v			11/18/17 06:07	16.96
Xylene (total)	**90**		12	0.68	ppb v/v			11/18/17 06:07	16.96
Styrene	ND		3.4	0.59	ppb v/v			11/18/17 06:07	16.96
4-Ethyltoluene	ND		3.4	0.68	ppb v/v			11/18/17 06:07	16.96
1,3,5-Trimethylbenzene	ND		3.4	0.68	ppb v/v			11/18/17 06:07	16.96
1,2,4-Trimethylbenzene	ND		3.4	0.97	ppb v/v			11/18/17 06:07	16.96

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**5.7**	**J**	42	3.9	ug/m3			11/18/17 06:07	16.96
Chloromethane	ND		18	5.6	ug/m3			11/18/17 06:07	16.96
Trichlorofluoromethane	**470**		19	3.0	ug/m3			11/18/17 06:07	16.96
Trichlorotrifluoroethane	ND		26	3.5	ug/m3			11/18/17 06:07	16.96
1,1-Dichloroethene	ND		13	2.4	ug/m3			11/18/17 06:07	16.96
Acetone	ND		200	52	ug/m3			11/18/17 06:07	16.96
Isopropanol	ND		210	5.4	ug/m3			11/18/17 06:07	16.96
Methylene Chloride	ND		29	4.0	ug/m3			11/18/17 06:07	16.96
n-Hexane	ND		12	2.7	ug/m3			11/18/17 06:07	16.96
1,1-Dichloroethane	ND		14	1.2	ug/m3			11/18/17 06:07	16.96
2-Butanone	ND		25	5.5	ug/m3			11/18/17 06:07	16.96
Chloroform	**5.1**	**J**	17	2.1	ug/m3			11/18/17 06:07	16.96
1,1,1-Trichloroethane	**32**		19	2.4	ug/m3			11/18/17 06:07	16.96
Cyclohexane	ND		12	2.6	ug/m3			11/18/17 06:07	16.96
Carbon tetrachloride	ND		21	1.2	ug/m3			11/18/17 06:07	16.96
2,2,4-Trimethylpentane	ND		16	3.4	ug/m3			11/18/17 06:07	16.96
Benzene	**1.9**	**J**	11	1.5	ug/m3			11/18/17 06:07	16.96
n-Heptane	ND		14	4.7	ug/m3			11/18/17 06:07	16.96
Trichloroethene	**2500**		18	0.83	ug/m3			11/18/17 06:07	16.96
4-Methyl-2-pentanone	ND		35	4.5	ug/m3			11/18/17 06:07	16.96
Toluene	**43**		13	2.2	ug/m3			11/18/17 06:07	16.96
1,1,2-Trichloroethane	ND		19	1.6	ug/m3			11/18/17 06:07	16.96
Tetrachloroethene	**590**		23	1.1	ug/m3			11/18/17 06:07	16.96
Ethylbenzene	**20**		15	2.5	ug/m3			11/18/17 06:07	16.96
m,p-Xylene	**230**		37	5.7	ug/m3			11/18/17 06:07	16.96
Xylene, o-	**160**		15	2.9	ug/m3			11/18/17 06:07	16.96
Xylene (total)	**390**		52	2.9	ug/m3			11/18/17 06:07	16.96
Styrene	ND		14	2.5	ug/m3			11/18/17 06:07	16.96
4-Ethyltoluene	ND		17	3.3	ug/m3			11/18/17 06:07	16.96
1,3,5-Trimethylbenzene	ND		17	3.3	ug/m3			11/18/17 06:07	16.96

Client Sample ID: SVI-301-3-SS-20171114

Lab Sample ID: 200-40996-9
Matrix: Air
Date Collected: 11/14/17 12:30
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		17	4.8	ug/m3			11/18/17 06:07	16.96

Client Sample ID: SVI-301-2-SS-20171114

Lab Sample ID: 200-40996-10
Matrix: Air
Date Collected: 11/14/17 11:47
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.0**	**J**	8.5	0.80	ppb v/v			11/20/17 19:04	17
Chloromethane	ND		8.5	2.7	ppb v/v			11/20/17 19:04	17
Trichlorofluoromethane	**63**		3.4	0.53	ppb v/v			11/20/17 19:04	17
Trichlorotrifluoroethane	ND		3.4	0.46	ppb v/v			11/20/17 19:04	17
1,1-Dichloroethene	ND		3.4	0.60	ppb v/v			11/20/17 19:04	17
Acetone	ND		85	22	ppb v/v			11/20/17 19:04	17
Isopropanol	ND		85	2.2	ppb v/v			11/20/17 19:04	17
Methylene Chloride	ND		8.5	1.2	ppb v/v			11/20/17 19:04	17
n-Hexane	ND		3.4	0.78	ppb v/v			11/20/17 19:04	17
1,1-Dichloroethane	ND		3.4	0.29	ppb v/v			11/20/17 19:04	17
2-Butanone	**2.4**	**J**	8.5	1.9	ppb v/v			11/20/17 19:04	17
Chloroform	**2.7**	**J**	3.4	0.43	ppb v/v			11/20/17 19:04	17
1,1,1-Trichloroethane	**2.8**	**J**	3.4	0.44	ppb v/v			11/20/17 19:04	17
Cyclohexane	ND		3.4	0.77	ppb v/v			11/20/17 19:04	17
Carbon tetrachloride	ND		3.4	0.19	ppb v/v			11/20/17 19:04	17
2,2,4-Trimethylpentane	ND		3.4	0.73	ppb v/v			11/20/17 19:04	17
Benzene	**1.2**	**J**	3.4	0.48	ppb v/v			11/20/17 19:04	17
n-Heptane	ND		3.4	1.2	ppb v/v			11/20/17 19:04	17
Trichloroethene	**380**		3.4	0.15	ppb v/v			11/20/17 19:04	17
4-Methyl-2-pentanone	ND		8.5	1.1	ppb v/v			11/20/17 19:04	17
Toluene	**280**		3.4	0.60	ppb v/v			11/20/17 19:04	17
1,1,2-Trichloroethane	ND		3.4	0.29	ppb v/v			11/20/17 19:04	17
Tetrachloroethene	**150**		3.4	0.17	ppb v/v			11/20/17 19:04	17
Ethylbenzene	**39**		3.4	0.58	ppb v/v			11/20/17 19:04	17
m,p-Xylene	**350**		8.5	1.3	ppb v/v			11/20/17 19:04	17
Xylene, o-	**190**		3.4	0.68	ppb v/v			11/20/17 19:04	17
Xylene (total)	**540**		12	0.68	ppb v/v			11/20/17 19:04	17
Styrene	ND		3.4	0.60	ppb v/v			11/20/17 19:04	17
4-Ethyltoluene	ND		3.4	0.68	ppb v/v			11/20/17 19:04	17
1,3,5-Trimethylbenzene	ND		3.4	0.68	ppb v/v			11/20/17 19:04	17
1,2,4-Trimethylbenzene	ND		3.4	0.97	ppb v/v			11/20/17 19:04	17

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**5.0**	**J**	42	4.0	ug/m3			11/20/17 19:04	17
Chloromethane	ND		18	5.6	ug/m3			11/20/17 19:04	17
Trichlorofluoromethane	**350**		19	3.0	ug/m3			11/20/17 19:04	17
Trichlorotrifluoroethane	ND		26	3.5	ug/m3			11/20/17 19:04	17
1,1-Dichloroethene	ND		13	2.4	ug/m3			11/20/17 19:04	17
Acetone	ND		200	52	ug/m3			11/20/17 19:04	17
Isopropanol	ND		210	5.4	ug/m3			11/20/17 19:04	17

Client Sample ID: SVI-301-2-SS-20171114 — **Lab Sample ID: 200-40996-10**
Date Collected: 11/14/17 11:47 — **Matrix: Air**
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		30	4.0	ug/m3			11/20/17 19:04	17
n-Hexane	ND		12	2.8	ug/m3			11/20/17 19:04	17
1,1-Dichloroethane	ND		14	1.2	ug/m3			11/20/17 19:04	17
2-Butanone	**7.1**	**J**	25	5.5	ug/m3			11/20/17 19:04	17
Chloroform	**13**	**J**	17	2.1	ug/m3			11/20/17 19:04	17
1,1,1-Trichloroethane	**15**	**J**	19	2.4	ug/m3			11/20/17 19:04	17
Cyclohexane	ND		12	2.6	ug/m3			11/20/17 19:04	17
Carbon tetrachloride	ND		21	1.2	ug/m3			11/20/17 19:04	17
2,2,4-Trimethylpentane	ND		16	3.4	ug/m3			11/20/17 19:04	17
Benzene	**4.0**	**J**	11	1.5	ug/m3			11/20/17 19:04	17
n-Heptane	ND		14	4.7	ug/m3			11/20/17 19:04	17
Trichloroethene	**2000**		18	0.83	ug/m3			11/20/17 19:04	17
4-Methyl-2-pentanone	ND		35	4.5	ug/m3			11/20/17 19:04	17
Toluene	**1000**		13	2.2	ug/m3			11/20/17 19:04	17
1,1,2-Trichloroethane	ND		19	1.6	ug/m3			11/20/17 19:04	17
Tetrachloroethene	**1000**		23	1.1	ug/m3			11/20/17 19:04	17
Ethylbenzene	**170**		15	2.5	ug/m3			11/20/17 19:04	17
m,p-Xylene	**1500**		37	5.7	ug/m3			11/20/17 19:04	17
Xylene, o-	**810**		15	3.0	ug/m3			11/20/17 19:04	17
Xylene (total)	**2300**		52	3.0	ug/m3			11/20/17 19:04	17
Styrene	ND		14	2.5	ug/m3			11/20/17 19:04	17
4-Ethyltoluene	ND		17	3.3	ug/m3			11/20/17 19:04	17
1,3,5-Trimethylbenzene	ND		17	3.3	ug/m3			11/20/17 19:04	17
1,2,4-Trimethylbenzene	ND		17	4.8	ug/m3			11/20/17 19:04	17

Client Sample ID: SVI-301-3-IA-20171114 — **Lab Sample ID: 200-40996-11**
Date Collected: 11/14/17 11:49 — **Matrix: Air**
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.69**		0.50	0.047	ppb v/v			11/20/17 19:58	1
Chloromethane	**0.46**	**J**	0.50	0.16	ppb v/v			11/20/17 19:58	1
Trichlorofluoromethane	**1.7**		0.20	0.031	ppb v/v			11/20/17 19:58	1
Trichlorotrifluoroethane	**0.057**	**J**	0.20	0.027	ppb v/v			11/20/17 19:58	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 19:58	1
Acetone	**2.9**	**J**	5.0	1.3	ppb v/v			11/20/17 19:58	1
Isopropanol	**2.3**	**J**	5.0	0.13	ppb v/v			11/20/17 19:58	1
Methylene Chloride	**0.096**	**J**	0.50	0.068	ppb v/v			11/20/17 19:58	1
n-Hexane	**2.5**		0.20	0.046	ppb v/v			11/20/17 19:58	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 19:58	1
2-Butanone	**0.33**	**J**	0.50	0.11	ppb v/v			11/20/17 19:58	1
Chloroform	**0.026**	**J**	0.20	0.025	ppb v/v			11/20/17 19:58	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 19:58	1
Cyclohexane	**1.0**		0.20	0.045	ppb v/v			11/20/17 19:58	1
Carbon tetrachloride	**0.069**	**J**	0.20	0.011	ppb v/v			11/20/17 19:58	1
2,2,4-Trimethylpentane	**2.1**		0.20	0.043	ppb v/v			11/20/17 19:58	1
Benzene	**0.85**		0.20	0.028	ppb v/v			11/20/17 19:58	1

Client Sample ID: SVI-301-3-IA-20171114
Lab Sample ID: 200-40996-11
Date Collected: 11/14/17 11:49
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
n-Heptane	1.5		0.20	0.068	ppb v/v			11/20/17 19:58	1
Trichloroethene	1.2		0.20	0.0091	ppb v/v			11/20/17 19:58	1
4-Methyl-2-pentanone	2.7		0.50	0.065	ppb v/v			11/20/17 19:58	1
Toluene	3.1		0.20	0.035	ppb v/v			11/20/17 19:58	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 19:58	1
Tetrachloroethene	19		0.20	0.0098	ppb v/v			11/20/17 19:58	1
Ethylbenzene	0.79		0.20	0.034	ppb v/v			11/20/17 19:58	1
m,p-Xylene	3.3		0.50	0.077	ppb v/v			11/20/17 19:58	1
Xylene, o-	1.2		0.20	0.040	ppb v/v			11/20/17 19:58	1
Xylene (total)	4.5		0.70	0.040	ppb v/v			11/20/17 19:58	1
Styrene	0.20		0.20	0.035	ppb v/v			11/20/17 19:58	1
4-Ethyltoluene	0.26		0.20	0.040	ppb v/v			11/20/17 19:58	1
1,3,5-Trimethylbenzene	0.26		0.20	0.040	ppb v/v			11/20/17 19:58	1
1,2,4-Trimethylbenzene	0.88		0.20	0.057	ppb v/v			11/20/17 19:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	3.4		2.5	0.23	ug/m3			11/20/17 19:58	1
Chloromethane	0.95	J	1.0	0.33	ug/m3			11/20/17 19:58	1
Trichlorofluoromethane	9.7		1.1	0.17	ug/m3			11/20/17 19:58	1
Trichlorotrifluoroethane	0.44	J	1.5	0.21	ug/m3			11/20/17 19:58	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 19:58	1
Acetone	6.9	J	12	3.1	ug/m3			11/20/17 19:58	1
Isopropanol	5.7	J	12	0.32	ug/m3			11/20/17 19:58	1
Methylene Chloride	0.33	J	1.7	0.24	ug/m3			11/20/17 19:58	1
n-Hexane	8.7		0.70	0.16	ug/m3			11/20/17 19:58	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 19:58	1
2-Butanone	0.96	J	1.5	0.32	ug/m3			11/20/17 19:58	1
Chloroform	0.13	J	0.98	0.12	ug/m3			11/20/17 19:58	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 19:58	1
Cyclohexane	3.6		0.69	0.15	ug/m3			11/20/17 19:58	1
Carbon tetrachloride	0.43	J	1.3	0.069	ug/m3			11/20/17 19:58	1
2,2,4-Trimethylpentane	9.6		0.93	0.20	ug/m3			11/20/17 19:58	1
Benzene	2.7		0.64	0.089	ug/m3			11/20/17 19:58	1
n-Heptane	6.1		0.82	0.28	ug/m3			11/20/17 19:58	1
Trichloroethene	6.5		1.1	0.049	ug/m3			11/20/17 19:58	1
4-Methyl-2-pentanone	11		2.0	0.27	ug/m3			11/20/17 19:58	1
Toluene	12		0.75	0.13	ug/m3			11/20/17 19:58	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 19:58	1
Tetrachloroethene	130		1.4	0.066	ug/m3			11/20/17 19:58	1
Ethylbenzene	3.4		0.87	0.15	ug/m3			11/20/17 19:58	1
m,p-Xylene	14		2.2	0.33	ug/m3			11/20/17 19:58	1
Xylene, o-	5.2		0.87	0.17	ug/m3			11/20/17 19:58	1
Xylene (total)	20		3.0	0.17	ug/m3			11/20/17 19:58	1
Styrene	0.85		0.85	0.15	ug/m3			11/20/17 19:58	1
4-Ethyltoluene	1.3		0.98	0.20	ug/m3			11/20/17 19:58	1
1,3,5-Trimethylbenzene	1.3		0.98	0.20	ug/m3			11/20/17 19:58	1
1,2,4-Trimethylbenzene	4.3		0.98	0.28	ug/m3			11/20/17 19:58	1

Client Sample ID: SVI-301-2-IA-20171114
Lab Sample ID: 200-40996-12
Date Collected: 11/14/17 11:48
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**1.7**	**J**	1.8	0.16	ppb v/v			11/20/17 20:51	3.51
Chloromethane	ND		1.8	0.56	ppb v/v			11/20/17 20:51	3.51
Trichlorofluoromethane	**6.4**		0.70	0.11	ppb v/v			11/20/17 20:51	3.51
Trichlorotrifluoroethane	ND		0.70	0.095	ppb v/v			11/20/17 20:51	3.51
1,1-Dichloroethene	ND		0.70	0.12	ppb v/v			11/20/17 20:51	3.51
Acetone	**13**	**J**	18	4.6	ppb v/v			11/20/17 20:51	3.51
Isopropanol	**3.4**	**J**	18	0.46	ppb v/v			11/20/17 20:51	3.51
Methylene Chloride	ND		1.8	0.24	ppb v/v			11/20/17 20:51	3.51
n-Hexane	**16**		0.70	0.16	ppb v/v			11/20/17 20:51	3.51
1,1-Dichloroethane	ND		0.70	0.060	ppb v/v			11/20/17 20:51	3.51
2-Butanone	**0.99**	**J**	1.8	0.39	ppb v/v			11/20/17 20:51	3.51
Chloroform	ND		0.70	0.088	ppb v/v			11/20/17 20:51	3.51
1,1,1-Trichloroethane	ND		0.70	0.091	ppb v/v			11/20/17 20:51	3.51
Cyclohexane	**6.9**		0.70	0.16	ppb v/v			11/20/17 20:51	3.51
Carbon tetrachloride	ND		0.70	0.039	ppb v/v			11/20/17 20:51	3.51
2,2,4-Trimethylpentane	**13**		0.70	0.15	ppb v/v			11/20/17 20:51	3.51
Benzene	**4.7**		0.70	0.098	ppb v/v			11/20/17 20:51	3.51
n-Heptane	**9.6**		0.70	0.24	ppb v/v			11/20/17 20:51	3.51
Trichloroethene	**0.79**		0.70	0.032	ppb v/v			11/20/17 20:51	3.51
4-Methyl-2-pentanone	**23**		1.8	0.23	ppb v/v			11/20/17 20:51	3.51
Toluene	**22**		0.70	0.12	ppb v/v			11/20/17 20:51	3.51
1,1,2-Trichloroethane	ND		0.70	0.060	ppb v/v			11/20/17 20:51	3.51
Tetrachloroethene	**110**		0.70	0.034	ppb v/v			11/20/17 20:51	3.51
Ethylbenzene	**5.0**		0.70	0.12	ppb v/v			11/20/17 20:51	3.51
m,p-Xylene	**20**		1.8	0.27	ppb v/v			11/20/17 20:51	3.51
Xylene, o-	**6.6**		0.70	0.14	ppb v/v			11/20/17 20:51	3.51
Xylene (total)	**27**		2.5	0.14	ppb v/v			11/20/17 20:51	3.51
Styrene	**1.4**		0.70	0.12	ppb v/v			11/20/17 20:51	3.51
4-Ethyltoluene	**2.4**		0.70	0.14	ppb v/v			11/20/17 20:51	3.51
1,3,5-Trimethylbenzene	**2.5**		0.70	0.14	ppb v/v			11/20/17 20:51	3.51
1,2,4-Trimethylbenzene	**9.2**		0.70	0.20	ppb v/v			11/20/17 20:51	3.51

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**8.6**	**J**	8.7	0.82	ug/m3			11/20/17 20:51	3.51
Chloromethane	ND		3.6	1.2	ug/m3			11/20/17 20:51	3.51
Trichlorofluoromethane	**36**		3.9	0.61	ug/m3			11/20/17 20:51	3.51
Trichlorotrifluoroethane	ND		5.4	0.73	ug/m3			11/20/17 20:51	3.51
1,1-Dichloroethene	ND		2.8	0.49	ug/m3			11/20/17 20:51	3.51
Acetone	**30**	**J**	42	11	ug/m3			11/20/17 20:51	3.51
Isopropanol	**8.4**	**J**	43	1.1	ug/m3			11/20/17 20:51	3.51
Methylene Chloride	ND		6.1	0.83	ug/m3			11/20/17 20:51	3.51
n-Hexane	**56**		2.5	0.57	ug/m3			11/20/17 20:51	3.51
1,1-Dichloroethane	ND		2.8	0.24	ug/m3			11/20/17 20:51	3.51
2-Butanone	**2.9**	**J**	5.2	1.1	ug/m3			11/20/17 20:51	3.51
Chloroform	ND		3.4	0.43	ug/m3			11/20/17 20:51	3.51
1,1,1-Trichloroethane	ND		3.8	0.50	ug/m3			11/20/17 20:51	3.51
Cyclohexane	**24**		2.4	0.54	ug/m3			11/20/17 20:51	3.51
Carbon tetrachloride	ND		4.4	0.24	ug/m3			11/20/17 20:51	3.51
2,2,4-Trimethylpentane	**61**		3.3	0.71	ug/m3			11/20/17 20:51	3.51

Client Sample ID: SVI-301-2-IA-20171114

Lab Sample ID: 200-40996-12
Matrix: Air
Date Collected: 11/14/17 11:48
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		2.2	0.31	ug/m3			11/20/17 20:51	3.51
n-Heptane	39		2.9	0.98	ug/m3			11/20/17 20:51	3.51
Trichloroethene	4.2		3.8	0.17	ug/m3			11/20/17 20:51	3.51
4-Methyl-2-pentanone	96		7.2	0.93	ug/m3			11/20/17 20:51	3.51
Toluene	81		2.6	0.46	ug/m3			11/20/17 20:51	3.51
1,1,2-Trichloroethane	ND		3.8	0.33	ug/m3			11/20/17 20:51	3.51
Tetrachloroethene	720		4.8	0.23	ug/m3			11/20/17 20:51	3.51
Ethylbenzene	22		3.0	0.52	ug/m3			11/20/17 20:51	3.51
m,p-Xylene	85		7.6	1.2	ug/m3			11/20/17 20:51	3.51
Xylene, o-	29		3.0	0.61	ug/m3			11/20/17 20:51	3.51
Xylene (total)	120		11	0.61	ug/m3			11/20/17 20:51	3.51
Styrene	6.2		3.0	0.52	ug/m3			11/20/17 20:51	3.51
4-Ethyltoluene	12		3.5	0.69	ug/m3			11/20/17 20:51	3.51
1,3,5-Trimethylbenzene	13		3.5	0.69	ug/m3			11/20/17 20:51	3.51
1,2,4-Trimethylbenzene	45		3.5	0.98	ug/m3			11/20/17 20:51	3.51

Client Sample ID: SVI-161-3-SS-20171114

Lab Sample ID: 200-40996-13
Matrix: Air
Date Collected: 11/14/17 15:45
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.37	J	0.50	0.047	ppb v/v			11/20/17 21:44	1
Chloromethane	0.48	J	0.50	0.16	ppb v/v			11/20/17 21:44	1
Trichlorofluoromethane	1.8		0.20	0.031	ppb v/v			11/20/17 21:44	1
Trichlorotrifluoroethane	0.11	J	0.20	0.027	ppb v/v			11/20/17 21:44	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 21:44	1
Acetone	19		5.0	1.3	ppb v/v			11/20/17 21:44	1
Isopropanol	1.3	J	5.0	0.13	ppb v/v			11/20/17 21:44	1
Methylene Chloride	0.39	J	0.50	0.068	ppb v/v			11/20/17 21:44	1
n-Hexane	0.78		0.20	0.046	ppb v/v			11/20/17 21:44	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 21:44	1
2-Butanone	3.1		0.50	0.11	ppb v/v			11/20/17 21:44	1
Chloroform	0.028	J	0.20	0.025	ppb v/v			11/20/17 21:44	1
1,1,1-Trichloroethane	0.99		0.20	0.026	ppb v/v			11/20/17 21:44	1
Cyclohexane	0.32		0.20	0.045	ppb v/v			11/20/17 21:44	1
Carbon tetrachloride	0.017	J	0.20	0.011	ppb v/v			11/20/17 21:44	1
2,2,4-Trimethylpentane	0.89		0.20	0.043	ppb v/v			11/20/17 21:44	1
Benzene	0.92		0.20	0.028	ppb v/v			11/20/17 21:44	1
n-Heptane	0.48		0.20	0.068	ppb v/v			11/20/17 21:44	1
Trichloroethene	3.0		0.20	0.0091	ppb v/v			11/20/17 21:44	1
4-Methyl-2-pentanone	0.34	J	0.50	0.065	ppb v/v			11/20/17 21:44	1
Toluene	2.6		0.20	0.035	ppb v/v			11/20/17 21:44	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 21:44	1
Tetrachloroethene	33		0.20	0.0098	ppb v/v			11/20/17 21:44	1
Ethylbenzene	0.45		0.20	0.034	ppb v/v			11/20/17 21:44	1
m,p-Xylene	1.5		0.50	0.077	ppb v/v			11/20/17 21:44	1
Xylene, o-	0.75		0.20	0.040	ppb v/v			11/20/17 21:44	1

Client Sample ID: SVI-161-3-SS-20171114

Lab Sample ID: 200-40996-13
Matrix: Air
Date Collected: 11/14/17 15:45
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	2.3		0.70	0.040	ppb v/v			11/20/17 21:44	1
Styrene	0.092	J	0.20	0.035	ppb v/v			11/20/17 21:44	1
4-Ethyltoluene	0.23		0.20	0.040	ppb v/v			11/20/17 21:44	1
1,3,5-Trimethylbenzene	0.28		0.20	0.040	ppb v/v			11/20/17 21:44	1
1,2,4-Trimethylbenzene	0.79		0.20	0.057	ppb v/v			11/20/17 21:44	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.8	J	2.5	0.23	ug/m3			11/20/17 21:44	1
Chloromethane	0.99	J	1.0	0.33	ug/m3			11/20/17 21:44	1
Trichlorofluoromethane	10		1.1	0.17	ug/m3			11/20/17 21:44	1
Trichlorotrifluoroethane	0.87	J	1.5	0.21	ug/m3			11/20/17 21:44	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 21:44	1
Acetone	45		12	3.1	ug/m3			11/20/17 21:44	1
Isopropanol	3.1	J	12	0.32	ug/m3			11/20/17 21:44	1
Methylene Chloride	1.4	J	1.7	0.24	ug/m3			11/20/17 21:44	1
n-Hexane	2.8		0.70	0.16	ug/m3			11/20/17 21:44	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 21:44	1
2-Butanone	9.3		1.5	0.32	ug/m3			11/20/17 21:44	1
Chloroform	0.14	J	0.98	0.12	ug/m3			11/20/17 21:44	1
1,1,1-Trichloroethane	5.4		1.1	0.14	ug/m3			11/20/17 21:44	1
Cyclohexane	1.1		0.69	0.15	ug/m3			11/20/17 21:44	1
Carbon tetrachloride	0.11	J	1.3	0.069	ug/m3			11/20/17 21:44	1
2,2,4-Trimethylpentane	4.2		0.93	0.20	ug/m3			11/20/17 21:44	1
Benzene	3.0		0.64	0.089	ug/m3			11/20/17 21:44	1
n-Heptane	2.0		0.82	0.28	ug/m3			11/20/17 21:44	1
Trichloroethene	16		1.1	0.049	ug/m3			11/20/17 21:44	1
4-Methyl-2-pentanone	1.4	J	2.0	0.27	ug/m3			11/20/17 21:44	1
Toluene	10		0.75	0.13	ug/m3			11/20/17 21:44	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 21:44	1
Tetrachloroethene	230		1.4	0.066	ug/m3			11/20/17 21:44	1
Ethylbenzene	2.0		0.87	0.15	ug/m3			11/20/17 21:44	1
m,p-Xylene	6.4		2.2	0.33	ug/m3			11/20/17 21:44	1
Xylene, o-	3.3		0.87	0.17	ug/m3			11/20/17 21:44	1
Xylene (total)	9.8		3.0	0.17	ug/m3			11/20/17 21:44	1
Styrene	0.39	J	0.85	0.15	ug/m3			11/20/17 21:44	1
4-Ethyltoluene	1.1		0.98	0.20	ug/m3			11/20/17 21:44	1
1,3,5-Trimethylbenzene	1.4		0.98	0.20	ug/m3			11/20/17 21:44	1
1,2,4-Trimethylbenzene	3.9		0.98	0.28	ug/m3			11/20/17 21:44	1

Client Sample ID: SVI-161-4-SS-20171114

Lab Sample ID: 200-40996-14
Matrix: Air
Date Collected: 11/14/17 15:46
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	0.35	J	0.50	0.047	ppb v/v			11/20/17 22:37	1
Chloromethane	0.16	J	0.50	0.16	ppb v/v			11/20/17 22:37	1
Trichlorofluoromethane	0.23		0.20	0.031	ppb v/v			11/20/17 22:37	1

Client Sample ID: SVI-161-4-SS-20171114
Lab Sample ID: 200-40996-14
Date Collected: 11/14/17 15:46
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorotrifluoroethane	0.060	J	0.20	0.027	ppb v/v			11/20/17 22:37	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 22:37	1
Acetone	5.9		5.0	1.3	ppb v/v			11/20/17 22:37	1
Isopropanol	1.2	J	5.0	0.13	ppb v/v			11/20/17 22:37	1
Methylene Chloride	ND		0.50	0.068	ppb v/v			11/20/17 22:37	1
n-Hexane	0.75		0.20	0.046	ppb v/v			11/20/17 22:37	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 22:37	1
2-Butanone	0.79		0.50	0.11	ppb v/v			11/20/17 22:37	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 22:37	1
1,1,1-Trichloroethane	0.068	J	0.20	0.026	ppb v/v			11/20/17 22:37	1
Cyclohexane	0.36		0.20	0.045	ppb v/v			11/20/17 22:37	1
Carbon tetrachloride	0.045	J	0.20	0.011	ppb v/v			11/20/17 22:37	1
2,2,4-Trimethylpentane	1.3		0.20	0.043	ppb v/v			11/20/17 22:37	1
Benzene	0.65		0.20	0.028	ppb v/v			11/20/17 22:37	1
n-Heptane	0.50		0.20	0.068	ppb v/v			11/20/17 22:37	1
Trichloroethene	1.0		0.20	0.0091	ppb v/v			11/20/17 22:37	1
4-Methyl-2-pentanone	0.23	J	0.50	0.065	ppb v/v			11/20/17 22:37	1
Toluene	2.1		0.20	0.035	ppb v/v			11/20/17 22:37	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 22:37	1
Tetrachloroethene	1.3		0.20	0.0098	ppb v/v			11/20/17 22:37	1
Ethylbenzene	0.38		0.20	0.034	ppb v/v			11/20/17 22:37	1
m,p-Xylene	1.2		0.50	0.077	ppb v/v			11/20/17 22:37	1
Xylene, o-	0.48		0.20	0.040	ppb v/v			11/20/17 22:37	1
Xylene (total)	1.7		0.70	0.040	ppb v/v			11/20/17 22:37	1
Styrene	ND		0.20	0.035	ppb v/v			11/20/17 22:37	1
4-Ethyltoluene	0.13	J	0.20	0.040	ppb v/v			11/20/17 22:37	1
1,3,5-Trimethylbenzene	0.15	J	0.20	0.040	ppb v/v			11/20/17 22:37	1
1,2,4-Trimethylbenzene	0.43		0.20	0.057	ppb v/v			11/20/17 22:37	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.7	J	2.5	0.23	ug/m3			11/20/17 22:37	1
Chloromethane	0.32	J	1.0	0.33	ug/m3			11/20/17 22:37	1
Trichlorofluoromethane	1.3		1.1	0.17	ug/m3			11/20/17 22:37	1
Trichlorotrifluoroethane	0.46	J	1.5	0.21	ug/m3			11/20/17 22:37	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 22:37	1
Acetone	14		12	3.1	ug/m3			11/20/17 22:37	1
Isopropanol	2.8	J	12	0.32	ug/m3			11/20/17 22:37	1
Methylene Chloride	ND		1.7	0.24	ug/m3			11/20/17 22:37	1
n-Hexane	2.6		0.70	0.16	ug/m3			11/20/17 22:37	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 22:37	1
2-Butanone	2.3		1.5	0.32	ug/m3			11/20/17 22:37	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 22:37	1
1,1,1-Trichloroethane	0.37	J	1.1	0.14	ug/m3			11/20/17 22:37	1
Cyclohexane	1.2		0.69	0.15	ug/m3			11/20/17 22:37	1
Carbon tetrachloride	0.28	J	1.3	0.069	ug/m3			11/20/17 22:37	1
2,2,4-Trimethylpentane	5.9		0.93	0.20	ug/m3			11/20/17 22:37	1
Benzene	2.1		0.64	0.089	ug/m3			11/20/17 22:37	1
n-Heptane	2.1		0.82	0.28	ug/m3			11/20/17 22:37	1
Trichloroethene	5.5		1.1	0.049	ug/m3			11/20/17 22:37	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Client Sample ID: SVI-161-4-SS-20171114
Lab Sample ID: 200-40996-14
Date Collected: 11/14/17 15:46
Matrix: Air
Date Received: 11/16/17 10:30
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	0.95	J	2.0	0.27	ug/m3			11/20/17 22:37	1
Toluene	8.1		0.75	0.13	ug/m3			11/20/17 22:37	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 22:37	1
Tetrachloroethene	8.8		1.4	0.066	ug/m3			11/20/17 22:37	1
Ethylbenzene	1.7		0.87	0.15	ug/m3			11/20/17 22:37	1
m,p-Xylene	5.1		2.2	0.33	ug/m3			11/20/17 22:37	1
Xylene, o-	2.1		0.87	0.17	ug/m3			11/20/17 22:37	1
Xylene (total)	7.3		3.0	0.17	ug/m3			11/20/17 22:37	1
Styrene	ND		0.85	0.15	ug/m3			11/20/17 22:37	1
4-Ethyltoluene	0.65	J	0.98	0.20	ug/m3			11/20/17 22:37	1
1,3,5-Trimethylbenzene	0.72	J	0.98	0.20	ug/m3			11/20/17 22:37	1
1,2,4-Trimethylbenzene	2.1		0.98	0.28	ug/m3			11/20/17 22:37	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-123473/4
Matrix: Air
Analysis Batch: 123473

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.047	ppb v/v			11/17/17 12:24	1
Chloromethane	ND		0.50	0.16	ppb v/v			11/17/17 12:24	1
Trichlorofluoromethane	ND		0.20	0.031	ppb v/v			11/17/17 12:24	1
Trichlorotrifluoroethane	ND		0.20	0.027	ppb v/v			11/17/17 12:24	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/17/17 12:24	1
Acetone	ND		5.0	1.3	ppb v/v			11/17/17 12:24	1
Isopropanol	ND		5.0	0.13	ppb v/v			11/17/17 12:24	1
Methylene Chloride	ND		0.50	0.068	ppb v/v			11/17/17 12:24	1
n-Hexane	ND		0.20	0.046	ppb v/v			11/17/17 12:24	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/17/17 12:24	1
2-Butanone	ND		0.50	0.11	ppb v/v			11/17/17 12:24	1
Chloroform	ND		0.20	0.025	ppb v/v			11/17/17 12:24	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/17/17 12:24	1
Cyclohexane	ND		0.20	0.045	ppb v/v			11/17/17 12:24	1
Carbon tetrachloride	ND		0.20	0.011	ppb v/v			11/17/17 12:24	1
2,2,4-Trimethylpentane	ND		0.20	0.043	ppb v/v			11/17/17 12:24	1
Benzene	ND		0.20	0.028	ppb v/v			11/17/17 12:24	1
n-Heptane	ND		0.20	0.068	ppb v/v			11/17/17 12:24	1
Trichloroethene	ND		0.20	0.0091	ppb v/v			11/17/17 12:24	1
4-Methyl-2-pentanone	ND		0.50	0.065	ppb v/v			11/17/17 12:24	1
Toluene	ND		0.20	0.035	ppb v/v			11/17/17 12:24	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/17/17 12:24	1
Tetrachloroethene	ND		0.20	0.0098	ppb v/v			11/17/17 12:24	1
Ethylbenzene	ND		0.20	0.034	ppb v/v			11/17/17 12:24	1
m,p-Xylene	ND		0.50	0.077	ppb v/v			11/17/17 12:24	1
Xylene, o-	ND		0.20	0.040	ppb v/v			11/17/17 12:24	1
Xylene (total)	ND		0.70	0.040	ppb v/v			11/17/17 12:24	1
Styrene	ND		0.20	0.035	ppb v/v			11/17/17 12:24	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/17/17 12:24	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/17/17 12:24	1
1,2,4-Trimethylbenzene	ND		0.20	0.057	ppb v/v			11/17/17 12:24	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	0.23	ug/m3			11/17/17 12:24	1
Chloromethane	ND		1.0	0.33	ug/m3			11/17/17 12:24	1
Trichlorofluoromethane	ND		1.1	0.17	ug/m3			11/17/17 12:24	1
Trichlorotrifluoroethane	ND		1.5	0.21	ug/m3			11/17/17 12:24	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/17/17 12:24	1
Acetone	ND		12	3.1	ug/m3			11/17/17 12:24	1
Isopropanol	ND		12	0.32	ug/m3			11/17/17 12:24	1
Methylene Chloride	ND		1.7	0.24	ug/m3			11/17/17 12:24	1
n-Hexane	ND		0.70	0.16	ug/m3			11/17/17 12:24	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/17/17 12:24	1
2-Butanone	ND		1.5	0.32	ug/m3			11/17/17 12:24	1
Chloroform	ND		0.98	0.12	ug/m3			11/17/17 12:24	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/17/17 12:24	1
Cyclohexane	ND		0.69	0.15	ug/m3			11/17/17 12:24	1
Carbon tetrachloride	ND		1.3	0.069	ug/m3			11/17/17 12:24	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-123473/4
Matrix: Air
Analysis Batch: 123473

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	ND		0.93	0.20	ug/m3			11/17/17 12:24	1
Benzene	ND		0.64	0.089	ug/m3			11/17/17 12:24	1
n-Heptane	ND		0.82	0.28	ug/m3			11/17/17 12:24	1
Trichloroethene	ND		1.1	0.049	ug/m3			11/17/17 12:24	1
4-Methyl-2-pentanone	ND		2.0	0.27	ug/m3			11/17/17 12:24	1
Toluene	ND		0.75	0.13	ug/m3			11/17/17 12:24	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/17/17 12:24	1
Tetrachloroethene	ND		1.4	0.066	ug/m3			11/17/17 12:24	1
Ethylbenzene	ND		0.87	0.15	ug/m3			11/17/17 12:24	1
m,p-Xylene	ND		2.2	0.33	ug/m3			11/17/17 12:24	1
Xylene, o-	ND		0.87	0.17	ug/m3			11/17/17 12:24	1
Xylene (total)	ND		3.0	0.17	ug/m3			11/17/17 12:24	1
Styrene	ND		0.85	0.15	ug/m3			11/17/17 12:24	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/17/17 12:24	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/17/17 12:24	1
1,2,4-Trimethylbenzene	ND		0.98	0.28	ug/m3			11/17/17 12:24	1

Lab Sample ID: LCS 200-123473/3
Matrix: Air
Analysis Batch: 123473

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	8.97		ppb v/v		90	68 - 128
Chloromethane	10.0	8.45		ppb v/v		85	57 - 126
Trichlorofluoromethane	10.0	8.42		ppb v/v		84	67 - 127
Trichlorotrifluoroethane	10.0	8.09		ppb v/v		81	68 - 128
1,1-Dichloroethene	10.0	7.64		ppb v/v		76	67 - 127
Acetone	10.0	9.01		ppb v/v		90	64 - 136
Isopropanol	10.0	8.06		ppb v/v		81	55 - 124
Methylene Chloride	10.0	8.51		ppb v/v		85	62 - 122
n-Hexane	10.0	8.65		ppb v/v		87	71 - 131
1,1-Dichloroethane	10.0	7.01		ppb v/v		70	66 - 126
2-Butanone	10.0	7.97		ppb v/v		80	62 - 122
Chloroform	10.0	7.62		ppb v/v		76	69 - 129
1,1,1-Trichloroethane	10.0	7.54		ppb v/v		75	70 - 130
Cyclohexane	10.0	8.07		ppb v/v		81	69 - 129
Carbon tetrachloride	10.0	7.48		ppb v/v		75	62 - 143
2,2,4-Trimethylpentane	10.0	7.40		ppb v/v		74	67 - 127
Benzene	10.0	7.95		ppb v/v		79	67 - 127
n-Heptane	10.0	7.40		ppb v/v		74	62 - 130
Trichloroethene	10.0	8.26		ppb v/v		83	68 - 128
4-Methyl-2-pentanone	10.0	8.35		ppb v/v		84	62 - 130
Toluene	10.0	10.3		ppb v/v		103	67 - 127
1,1,2-Trichloroethane	10.0	9.04		ppb v/v		90	69 - 129
Tetrachloroethene	10.0	8.22		ppb v/v		82	70 - 130
Ethylbenzene	10.0	8.93		ppb v/v		89	68 - 128
m,p-Xylene	20.0	17.5		ppb v/v		87	68 - 128
Xylene, o-	10.0	9.05		ppb v/v		91	67 - 127

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-123473/3
Matrix: Air
Analysis Batch: 123473

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	10.0	9.66		ppb v/v		97	68 - 128
4-Ethyltoluene	10.0	9.75		ppb v/v		98	69 - 129
1,3,5-Trimethylbenzene	10.0	9.56		ppb v/v		96	65 - 125
1,2,4-Trimethylbenzene	10.0	9.57		ppb v/v		96	65 - 125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	44.4		ug/m3		90	68 - 128
Chloromethane	21	17.5		ug/m3		85	57 - 126
Trichlorofluoromethane	56	47.3		ug/m3		84	67 - 127
Trichlorotrifluoroethane	77	62.0		ug/m3		81	68 - 128
1,1-Dichloroethene	40	30.3		ug/m3		76	67 - 127
Acetone	24	21.4		ug/m3		90	64 - 136
Isopropanol	25	19.8		ug/m3		81	55 - 124
Methylene Chloride	35	29.5		ug/m3		85	62 - 122
n-Hexane	35	30.5		ug/m3		87	71 - 131
1,1-Dichloroethane	40	28.4		ug/m3		70	66 - 126
2-Butanone	29	23.5		ug/m3		80	62 - 122
Chloroform	49	37.2		ug/m3		76	69 - 129
1,1,1-Trichloroethane	55	41.2		ug/m3		75	70 - 130
Cyclohexane	34	27.8		ug/m3		81	69 - 129
Carbon tetrachloride	63	47.0		ug/m3		75	62 - 143
2,2,4-Trimethylpentane	47	34.6		ug/m3		74	67 - 127
Benzene	32	25.4		ug/m3		79	67 - 127
n-Heptane	41	30.3		ug/m3		74	62 - 130
Trichloroethene	54	44.4		ug/m3		83	68 - 128
4-Methyl-2-pentanone	41	34.2		ug/m3		84	62 - 130
Toluene	38	38.7		ug/m3		103	67 - 127
1,1,2-Trichloroethane	55	49.3		ug/m3		90	69 - 129
Tetrachloroethene	68	55.8		ug/m3		82	70 - 130
Ethylbenzene	43	38.8		ug/m3		89	68 - 128
m,p-Xylene	87	75.9		ug/m3		87	68 - 128
Xylene, o-	43	39.3		ug/m3		91	67 - 127
Styrene	43	41.2		ug/m3		97	68 - 128
4-Ethyltoluene	49	47.9		ug/m3		98	69 - 129
1,3,5-Trimethylbenzene	49	47.0		ug/m3		96	65 - 125
1,2,4-Trimethylbenzene	49	47.1		ug/m3		96	65 - 125

Lab Sample ID: MB 200-123544/4
Matrix: Air
Analysis Batch: 123544

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.047	ppb v/v			11/20/17 12:54	1
Chloromethane	ND		0.50	0.16	ppb v/v			11/20/17 12:54	1
Trichlorofluoromethane	ND		0.20	0.031	ppb v/v			11/20/17 12:54	1
Trichlorotrifluoroethane	ND		0.20	0.027	ppb v/v			11/20/17 12:54	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 12:54	1
Acetone	ND		5.0	1.3	ppb v/v			11/20/17 12:54	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-123544/4
Matrix: Air
Analysis Batch: 123544

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropanol	ND		5.0	0.13	ppb v/v			11/20/17 12:54	1
Methylene Chloride	ND		0.50	0.068	ppb v/v			11/20/17 12:54	1
n-Hexane	ND		0.20	0.046	ppb v/v			11/20/17 12:54	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 12:54	1
2-Butanone	ND		0.50	0.11	ppb v/v			11/20/17 12:54	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 12:54	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 12:54	1
Cyclohexane	ND		0.20	0.045	ppb v/v			11/20/17 12:54	1
Carbon tetrachloride	ND		0.20	0.011	ppb v/v			11/20/17 12:54	1
2,2,4-Trimethylpentane	ND		0.20	0.043	ppb v/v			11/20/17 12:54	1
Benzene	ND		0.20	0.028	ppb v/v			11/20/17 12:54	1
n-Heptane	ND		0.20	0.068	ppb v/v			11/20/17 12:54	1
Trichloroethene	ND		0.20	0.0091	ppb v/v			11/20/17 12:54	1
4-Methyl-2-pentanone	ND		0.50	0.065	ppb v/v			11/20/17 12:54	1
Toluene	ND		0.20	0.035	ppb v/v			11/20/17 12:54	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 12:54	1
Tetrachloroethene	ND		0.20	0.0098	ppb v/v			11/20/17 12:54	1
Ethylbenzene	ND		0.20	0.034	ppb v/v			11/20/17 12:54	1
m,p-Xylene	ND		0.50	0.077	ppb v/v			11/20/17 12:54	1
Xylene, o-	ND		0.20	0.040	ppb v/v			11/20/17 12:54	1
Xylene (total)	ND		0.70	0.040	ppb v/v			11/20/17 12:54	1
Styrene	ND		0.20	0.035	ppb v/v			11/20/17 12:54	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/20/17 12:54	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/20/17 12:54	1
1,2,4-Trimethylbenzene	ND		0.20	0.057	ppb v/v			11/20/17 12:54	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	0.23	ug/m3			11/20/17 12:54	1
Chloromethane	ND		1.0	0.33	ug/m3			11/20/17 12:54	1
Trichlorofluoromethane	ND		1.1	0.17	ug/m3			11/20/17 12:54	1
Trichlorotrifluoroethane	ND		1.5	0.21	ug/m3			11/20/17 12:54	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 12:54	1
Acetone	ND		12	3.1	ug/m3			11/20/17 12:54	1
Isopropanol	ND		12	0.32	ug/m3			11/20/17 12:54	1
Methylene Chloride	ND		1.7	0.24	ug/m3			11/20/17 12:54	1
n-Hexane	ND		0.70	0.16	ug/m3			11/20/17 12:54	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 12:54	1
2-Butanone	ND		1.5	0.32	ug/m3			11/20/17 12:54	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 12:54	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 12:54	1
Cyclohexane	ND		0.69	0.15	ug/m3			11/20/17 12:54	1
Carbon tetrachloride	ND		1.3	0.069	ug/m3			11/20/17 12:54	1
2,2,4-Trimethylpentane	ND		0.93	0.20	ug/m3			11/20/17 12:54	1
Benzene	ND		0.64	0.089	ug/m3			11/20/17 12:54	1
n-Heptane	ND		0.82	0.28	ug/m3			11/20/17 12:54	1
Trichloroethene	ND		1.1	0.049	ug/m3			11/20/17 12:54	1
4-Methyl-2-pentanone	ND		2.0	0.27	ug/m3			11/20/17 12:54	1
Toluene	ND		0.75	0.13	ug/m3			11/20/17 12:54	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-123544/4
Matrix: Air
Analysis Batch: 123544

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 12:54	1
Tetrachloroethene	ND		1.4	0.066	ug/m3			11/20/17 12:54	1
Ethylbenzene	ND		0.87	0.15	ug/m3			11/20/17 12:54	1
m,p-Xylene	ND		2.2	0.33	ug/m3			11/20/17 12:54	1
Xylene, o-	ND		0.87	0.17	ug/m3			11/20/17 12:54	1
Xylene (total)	ND		3.0	0.17	ug/m3			11/20/17 12:54	1
Styrene	ND		0.85	0.15	ug/m3			11/20/17 12:54	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/20/17 12:54	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/20/17 12:54	1
1,2,4-Trimethylbenzene	ND		0.98	0.28	ug/m3			11/20/17 12:54	1

Lab Sample ID: LCS 200-123544/3
Matrix: Air
Analysis Batch: 123544

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	9.91		ppb v/v		99	68 - 128
Chloromethane	10.0	8.48		ppb v/v		85	57 - 126
Trichlorofluoromethane	10.0	8.32		ppb v/v		83	67 - 127
Trichlorotrifluoroethane	10.0	9.05		ppb v/v		91	68 - 128
1,1-Dichloroethene	10.0	8.51		ppb v/v		85	67 - 127
Acetone	10.0	10.2		ppb v/v		102	64 - 136
Isopropanol	10.0	8.99		ppb v/v		90	55 - 124
Methylene Chloride	10.0	9.57		ppb v/v		96	62 - 122
n-Hexane	10.0	9.80		ppb v/v		98	71 - 131
1,1-Dichloroethane	10.0	8.64		ppb v/v		86	66 - 126
2-Butanone	10.0	9.82		ppb v/v		98	62 - 122
Chloroform	10.0	9.31		ppb v/v		93	69 - 129
1,1,1-Trichloroethane	10.0	9.47		ppb v/v		95	70 - 130
Cyclohexane	10.0	9.45		ppb v/v		95	69 - 129
Carbon tetrachloride	10.0	9.05		ppb v/v		90	62 - 143
2,2,4-Trimethylpentane	10.0	9.46		ppb v/v		95	67 - 127
Benzene	10.0	9.38		ppb v/v		94	67 - 127
n-Heptane	10.0	9.59		ppb v/v		96	62 - 130
Trichloroethene	10.0	8.72		ppb v/v		87	68 - 128
4-Methyl-2-pentanone	10.0	9.76		ppb v/v		98	62 - 130
Toluene	10.0	8.88		ppb v/v		89	67 - 127
1,1,2-Trichloroethane	10.0	8.85		ppb v/v		88	69 - 129
Tetrachloroethene	10.0	9.63		ppb v/v		96	70 - 130
Ethylbenzene	10.0	8.87		ppb v/v		89	68 - 128
m,p-Xylene	20.0	17.9		ppb v/v		90	68 - 128
Xylene, o-	10.0	9.56		ppb v/v		96	67 - 127
Styrene	10.0	9.98		ppb v/v		100	68 - 128
4-Ethyltoluene	10.0	8.52		ppb v/v		85	69 - 129
1,3,5-Trimethylbenzene	10.0	8.24		ppb v/v		82	65 - 125
1,2,4-Trimethylbenzene	10.0	8.21		ppb v/v		82	65 - 125

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	49.0		ug/m3		99	68 - 128
Chloromethane	21	17.5		ug/m3		85	57 - 126
Trichlorofluoromethane	56	46.7		ug/m3		83	67 - 127
Trichlorotrifluoroethane	77	69.4		ug/m3		91	68 - 128
1,1-Dichloroethene	40	33.7		ug/m3		85	67 - 127
Acetone	24	24.2		ug/m3		102	64 - 136
Isopropanol	25	22.1		ug/m3		90	55 - 124
Methylene Chloride	35	33.2		ug/m3		96	62 - 122
n-Hexane	35	34.5		ug/m3		98	71 - 131
1,1-Dichloroethane	40	35.0		ug/m3		86	66 - 126
2-Butanone	29	29.0		ug/m3		98	62 - 122
Chloroform	49	45.5		ug/m3		93	69 - 129
1,1,1-Trichloroethane	55	51.7		ug/m3		95	70 - 130
Cyclohexane	34	32.5		ug/m3		95	69 - 129
Carbon tetrachloride	63	56.9		ug/m3		90	62 - 143
2,2,4-Trimethylpentane	47	44.2		ug/m3		95	67 - 127
Benzene	32	30.0		ug/m3		94	67 - 127
n-Heptane	41	39.3		ug/m3		96	62 - 130
Trichloroethene	54	46.9		ug/m3		87	68 - 128
4-Methyl-2-pentanone	41	40.0		ug/m3		98	62 - 130
Toluene	38	33.5		ug/m3		89	67 - 127
1,1,2-Trichloroethane	55	48.3		ug/m3		88	69 - 129
Tetrachloroethene	68	65.3		ug/m3		96	70 - 130
Ethylbenzene	43	38.5		ug/m3		89	68 - 128
m,p-Xylene	87	77.9		ug/m3		90	68 - 128
Xylene, o-	43	41.5		ug/m3		96	67 - 127
Styrene	43	42.5		ug/m3		100	68 - 128
4-Ethyltoluene	49	41.9		ug/m3		85	69 - 129
1,3,5-Trimethylbenzene	49	40.5		ug/m3		82	65 - 125
1,2,4-Trimethylbenzene	49	40.4		ug/m3		82	65 - 125

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Air - GC/MS VOA

Analysis Batch: 123473

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-40996-1	SVI-161-1-IA-20171114	Total/NA	Air	TO-15	
200-40996-2	SVI-161-1-SS-20171114	Total/NA	Air	TO-15	
200-40996-3	SVI-161-DUP-SS-2-20171114	Total/NA	Air	TO-15	
200-40996-5	SVI-301-1-SS-20171114	Total/NA	Air	TO-15	
200-40996-9	SVI-301-3-SS-20171114	Total/NA	Air	TO-15	
MB 200-123473/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-123473/3	Lab Control Sample	Total/NA	Air	TO-15	

Analysis Batch: 123544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-40996-4	SVI-301-1-IA-20171114	Total/NA	Air	TO-15	
200-40996-6	SVI-301-4-OA-20171114	Total/NA	Air	TO-15	
200-40996-7	SVI-161-3-IA-20171114	Total/NA	Air	TO-15	
200-40996-8	SVI-161-4-IA-20171114	Total/NA	Air	TO-15	
200-40996-10	SVI-301-2-SS-20171114	Total/NA	Air	TO-15	
200-40996-11	SVI-301-3-IA-20171114	Total/NA	Air	TO-15	
200-40996-12	SVI-301-2-IA-20171114	Total/NA	Air	TO-15	
200-40996-13	SVI-161-3-SS-20171114	Total/NA	Air	TO-15	
200-40996-14	SVI-161-4-SS-20171114	Total/NA	Air	TO-15	
MB 200-123544/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-123544/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Client Sample ID: SVI-161-1-IA-20171114
Lab Sample ID: 200-40996-1
Date Collected: 11/14/17 11:51
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123473	11/17/17 23:02	K1P	TAL BUR

Client Sample ID: SVI-161-1-SS-20171114
Lab Sample ID: 200-40996-2
Date Collected: 11/14/17 12:50
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	123473	11/17/17 23:55	K1P	TAL BUR

Client Sample ID: SVI-161-DUP-SS-2-20171114
Lab Sample ID: 200-40996-3
Date Collected: 11/14/17 00:00
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		10	123473	11/18/17 00:48	K1P	TAL BUR

Client Sample ID: SVI-301-1-IA-20171114
Lab Sample ID: 200-40996-4
Date Collected: 11/14/17 12:17
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		5	123544	11/20/17 15:32	A1B	TAL BUR

Client Sample ID: SVI-301-1-SS-20171114
Lab Sample ID: 200-40996-5
Date Collected: 11/14/17 11:45
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		20	123473	11/18/17 02:35	K1P	TAL BUR

Client Sample ID: SVI-301-4-OA-20171114
Lab Sample ID: 200-40996-6
Date Collected: 11/14/17 12:15
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 16:25	A1B	TAL BUR

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Client Sample ID: SVI-161-3-IA-20171114
Lab Sample ID: 200-40996-7
Date Collected: 11/14/17 12:37
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 17:19	A1B	TAL BUR

Client Sample ID: SVI-161-4-IA-20171114
Lab Sample ID: 200-40996-8
Date Collected: 11/14/17 12:36
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 18:12	A1B	TAL BUR

Client Sample ID: SVI-301-3-SS-20171114
Lab Sample ID: 200-40996-9
Date Collected: 11/14/17 12:30
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		16.96	123473	11/18/17 06:07	K1P	TAL BUR

Client Sample ID: SVI-301-2-SS-20171114
Lab Sample ID: 200-40996-10
Date Collected: 11/14/17 11:47
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		17	123544	11/20/17 19:04	A1B	TAL BUR

Client Sample ID: SVI-301-3-IA-20171114
Lab Sample ID: 200-40996-11
Date Collected: 11/14/17 11:49
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 19:58	A1B	TAL BUR

Client Sample ID: SVI-301-2-IA-20171114
Lab Sample ID: 200-40996-12
Date Collected: 11/14/17 11:48
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		3.51	123544	11/20/17 20:51	A1B	TAL BUR

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Client Sample ID: SVI-161-3-SS-20171114
Lab Sample ID: 200-40996-13
Date Collected: 11/14/17 15:45
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 21:44	A1B	TAL BUR

Client Sample ID: SVI-161-4-SS-20171114
Lab Sample ID: 200-40996-14
Date Collected: 11/14/17 15:46
Matrix: Air
Date Received: 11/16/17 10:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123544	11/20/17 22:37	A1B	TAL BUR

Laboratory References:

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

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17 *
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17 *
Virginia	NELAP	3	460209	12-14-17 *

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-40996-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-40996-1	SVI-161-1-IA-20171114	Air	11/14/17 11:51	11/16/17 10:30
200-40996-2	SVI-161-1-SS-20171114	Air	11/14/17 12:50	11/16/17 10:30
200-40996-3	SVI-161-DUP-SS-2-20171114	Air	11/14/17 00:00	11/16/17 10:30
200-40996-4	SVI-301-1-IA-20171114	Air	11/14/17 12:17	11/16/17 10:30
200-40996-5	SVI-301-1-SS-20171114	Air	11/14/17 11:45	11/16/17 10:30
200-40996-6	SVI-301-4-OA-20171114	Air	11/14/17 12:15	11/16/17 10:30
200-40996-7	SVI-161-3-IA-20171114	Air	11/14/17 12:37	11/16/17 10:30
200-40996-8	SVI-161-4-IA-20171114	Air	11/14/17 12:36	11/16/17 10:30
200-40996-9	SVI-301-3-SS-20171114	Air	11/14/17 12:30	11/16/17 10:30
200-40996-10	SVI-301-2-SS-20171114	Air	11/14/17 11:47	11/16/17 10:30
200-40996-11	SVI-301-3-IA-20171114	Air	11/14/17 11:49	11/16/17 10:30
200-40996-12	SVI-301-2-IA-20171114	Air	11/14/17 11:48	11/16/17 10:30
200-40996-13	SVI-161-3-SS-20171114	Air	11/14/17 15:45	11/16/17 10:30
200-40996-14	SVI-161-4-SS-20171114	Air	11/14/17 15:46	11/16/17 10:30

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

Canister Samples Chain of Custody Record

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Client Project Manager: Amy Picunas	Samples Collected By: Eric Rogenweig
Company Name: CDM Smith	Phone: 518-782-9505	COC No: 1 of 1 COCs
Address: 11 British American	Email: picunasae@cdmsmith.com	
City/State/Zip: Latham, NY 12110		
Phone:	Site Contact:	For Lab Use Only:
FAX:	Tel/Fax	Walk-in Client:
Project Name: Former Hunnman Laundry	Anaylsis Turnaround Time	Lab Sampling:
Site/Location: Old Bethpage, NY	Standard (Specific):	Job / SDG No.:
P O #	Rush (Specifiy):	(See below for Add'l Items)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes sectio	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SVI-161-IA-20171114	11/14/17	741	1151	-30	-4	4187	7046	X														
SVI-161-SS-20171114	11/14/17	740	1250	-30	-3	5194	4802	X														
SVI-161-DUP-SS-20171114	11/14/17			-30	-2	3125	4818	X														
SVI-301-1-IA-20171114	11/14/17	721	1217	-30	-4	5193	7060	X														
SVI-301-1-SS-20171114	11/14/17	720	1145	-30	-2	3575	6934	X														
SVI-301-4-OA-20171114	11/14/17	735	1215	-27	-2	2528	5399	X														
SVI-161-3-IA-20171114	11/14/17	836	1237	-30	-4	4501	4574	X														
SVI-161-4-IA-20171114	11/14/17	831	1236	-30	-4	3133	~~3132~~ 3096	X														
SVI-301-3-SS-20171114	11/14/17	730	1230	-30	-4	5182	6937	X														
SVI-301-2-SS-20171114	11/14/17	725	1147	-30	-3	5212	2907	X														

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop	65°	40°

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop	30.3"	30"

200-40996 COC

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time:	Samples Received by:
Samples Relinquished by:	Date / Time: 11/15/17 1105	Received by:
Relinquished by:	Date / Time: 11/15 PM	Received by: TABUR 11/16/17 1020
Lab Use Only: Shipper Name: NYC TA	Opened by: VLM	Condition: Intact

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

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

Canister Samples Chain of Custody Record

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	**Client Project Manager:** Amy Picunes	**Samples Collected By:**
Company Name: CDM Smith	**Phone:** 518-782-1449	**COC No:** 2 of 2 COCs
Address: 11 Pantoosh Avenue	**Email:** picunesae@cdmsmith.com	
City/State/Zip Latham, NY 12110		
Phone:	**Site Contact:**	**For Lab Use Only:**
FAX:	**Tel/Fax**	Walk-in Client:
Project Name: Former Hamilton Leasure	**Anaylsis Turnaround Time**	Lab Sampling:
Site/Location: Old Bethpage, NY	**Standard (Specific):**	**Job / SDG No.:**
P O #	**Rush (Specifiy):**	(See below for Add'l Items)

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes sectio	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SVI-301-3-IA-20171114	11/14/17	731	1149	-30	-4	5179	6670	X														
SVI-301-2-IA-20171114	11/14/17	726	1148	-30	-4	3683	7007	X														
SVI-161-3-SS-20171114	11/14/17	836	1545	-30	-12	3746	5619	X														
SVI-161-4-SS-20171114	11/14/17	830	1546	-30	-10	3717	5108	X														

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	**Date / Time:**	**Samples Received by:**
Samples Relinquished by:	**Date / Time:** 11/15/17 1105	**Received by:**
Relinquished by:	**Date / Time:**	**Received by:** VIA TABOR 11/16/17 1030
Lab Use Only: **Shipper Name:** NYC TA	**Opened by:** VM	**Condition:** Intact

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

ORIGIN ID:AIVA (646) 745-0906
TESTAMERICA NYC

47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 15NOV17
ACTWGT: 10.00 LB
CAD: 101905570/INET3920
DIMS: 26x20x18 IN

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

549J3/F877/104C

FedEx Express

J172117091301uv

1 of 4

THU - 16 NOV 3:00P
STANDARD OVERNIGHT

TRK# 0201 7707 6048 3497
MASTER

NC BTVA

05403
VT-US BTV

ORIGIN ID:AIVA (646) 745-0906
TESTAMERICA NYC

47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 15NOV17
ACTWGT: 10.00 LB
CAD: 101905570/INET3920
DIMS: 26x20x18 IN

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

549J3/F877/104C

FedEx Express

J172117091301uv

2 of 4

THU - 16 NOV 3:00P
STANDARD OVERNIGHT

MPS# 0263 7707 6048 3751
Mstr# 7707 6048 3497

0201

NC BTVA

05403
VT-US BTV

ORIGIN ID:AIVA (646) 745-0906
TESTAMERICA NYC

47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 15NOV17
ACTWGT: 10.00 LB
CAD: 101905570/INET3920
DIMS: 26x20x18 IN

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

549J3/FB77/104C

FedEx Express

J172117091301ur

4 of 4
MPS# 0263 7707 6048 3979
Mstr# 7707 6048 3497

THU - 16 NOV 3:00P
STANDARD OVERNIGHT

0201

NC BTVA

05403
VT-US BTV

ORIGIN ID:AIVA (646) 745-0906
TESTAMERICA NYC

47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US

SHIP DATE: 15NOV17
ACTWGT: 10.00 LB
CAD: 101905570/INET3920
DIMS: 26x20x18 IN

BILL RECIPIENT

TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11

SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

549J3/FB77/104C

FedEx Express

J172117091301ur

3 of 4
MPS# 0263 7707 6048 3707
Mstr# 7707 6048 3497

THU - 16 NOV 3:00P
STANDARD OVERNIGHT

0201

NC BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 200-40996-1

Login Number: 40996
List Number: 1
Creator: Hahl, Victoria L

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	ER
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Top Rack	20	10/31/2017	EJE	1L	6L	Individual	Batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5399	.05	.11	.06	-30.2	G25	11.1.17	12:47	EE	22	G25	11/3.17	13:23	EE	22
2	4574	"	.105	0	-30.2	G25	"	"	"	"	G25	"	"	"	"
3	4580	"	.105	0	-30.2	G25	"	"	"	"	G25	"	"	"	"
4	3043	"	.105	0	-30.0	G25	"	"	"	"	G25	"	"	"	"
5	2883	"	.105	0	-30.2	G25	"	"	"	"	G25	"	"	"	"
6	5453	.05	.05	0	-30.2	G25	11.6.17	10:47	EE	23	G25	11.7.17	11:-	EE	22
7	2642	.05	.06	.01	-30.2	G25	11.1.17	12:47	EE	22	G25	11/3.17	13:23	EE	22
8	5716	"	.105	0	-30.0	G25	"	"	"	"	G25	"	"	"	"
9	3482	"	.105	0	-30.2	G25	"	"	"	"	G25	"	"	"	"
10	2907	"	.105	0	-30.2	G25	"	"	"	"	G25	"	"	"	"
11	4318	"	.08	.03	-30.2	G25	"	"	"	"	G25	"	"	"	"
12	2946	"	.105	0	-30.0	G25	"	"	"	"	G25	"	"	"	"

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review: Limited	Review Date	Reviewer
5453	11/3/17	27709	AB		XXXX				11/3/17	VTP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.26.17:10
TestAmerica Burlington

200-40705-A-6
5453
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 10/31/2017 12:00 AM 200-1090118
Loc: 200
40705
#6
A

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Bottom Rack	20	10/31/2017	EJE	1L	6L	Individual	Batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5167	.05	.15	.10	-30.2	G25	11.1.17	12:47	CC	22	G25	11.8.17	13:45	CC	22
2	4803	"	.13	.08	"	G25	"	"	"	"	G25	"	"	"	"
3	3010	"	.08	.03	"	G25	"	"	"	"	G25	"	"	"	"
4	2737	"	.05	0	"	G25	"	"	"	"	G25	"	"	"	"
5	5717	"	.05	0	-30.0	G25	"	"	"	"	G25	"	"	"	"
6	5632	.04	.04	0	-30.2	G25	11.1.17	14:00	CC	23	G25	11.8.17	14:20	CC	22
7	4802	.05	.05	0	-30.2	G25	11.1.17	12:47	CC	22	G25	11.8.17	13:45	CC	22
8	5108	"	.05	0	"	G25	"	"	"	"	G25	"	"	"	"
9	5619	"	.05	0	"	G25	"	"	"	"	G25	"	"	"	"
10	2537	"	.07	.02	"	G25	"	"	"	"	G25	"	"	"	"
11	5056	"	.11	.06	"	G25	"	"	"	"	G25	"	"	"	"
12	2789	"	.05	0	"	G25	"	"	"	"	G25	"	"	"	"

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
5632	11/03/17	27725	AB		XXXX				11/06/17	PAD

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.26.17:10
TestAmerica Burlington

200-40706-A-6
5632
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 10/31/2017 12:00 AM 200-1090130
Loc: 200
40706
#6
A

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

Lab Name: TestAmerica Burlington Job No.: 200-40705-1

SDG No.:

Client Sample ID: 5453 Lab Sample ID: 200-40705-6

Matrix: Air Lab File ID: 200-27709-026.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 07:50

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: TestAmerica Burlington Job No.: 200-40705-1

SDG No.:

Client Sample ID: 5453 Lab Sample ID: 200-40705-6

Matrix: Air Lab File ID: 200-27709-026.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 07:50

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: TestAmerica Burlington Job No.: 200-40705-1

SDG No.:

Client Sample ID: 5453 Lab Sample ID: 200-40705-6

Matrix: Air Lab File ID: 200-27709-026.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 07:50

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122864 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20171102-27709.b\200-27709-026.D
Lims ID: 200-40705-A-6
Client ID: 5453
Sample Type: Client
Inject. Date: 03-Nov-2017 07:50:30 ALS Bottle#: 26 Worklist Smp#: 26
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0027709-026
Misc. Info.: 40705-06
Operator ID: vtp Instrument ID: CHG.i

Method: \\ChromNA\Burlington\ChromData\CHG.i\20171102-27709.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 03-Nov-2017 11:49:35 Calib Date: 01-Nov-2017 01:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20171031-27684.b\200-27684-012.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: phamvu Date: 03-Nov-2017 11:50:14

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.117				ND	
2 Dichlorodifluoromethane	85		3.176				ND	
3 Chlorodifluoromethane	51		3.213				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.384				ND	
5 Chloromethane	50		3.502				ND	
6 Butane	43		3.657				ND	
7 Vinyl chloride	62		3.695				ND	
8 Butadiene	54		3.748				ND	
10 Bromomethane	94		4.299				ND	
11 Chloroethane	64		4.481				ND	
13 Vinyl bromide	106		4.797				ND	
14 Trichlorofluoromethane	101		4.866				ND	
17 Ethanol	45	5.380	5.337	0.043	95	5397	0.7472	
20 1,1,2-Trichloro-1,2,2-trif	101		5.744				ND	
21 1,1-Dichloroethene	96		5.803				ND	
22 Acetone	43		6.027				ND	
23 Carbon disulfide	76	6.177	6.172	0.005	45	1717	0.0250	
24 Isopropyl alcohol	45		6.257				ND	
25 3-Chloro-1-propene	41		6.482				ND	
27 Methylene Chloride	49		6.744				ND	
28 2-Methyl-2-propanol	59		6.953				ND	
29 Methyl tert-butyl ether	73		7.119				ND	
31 trans-1,2-Dichloroethene	61		7.135				ND	
33 Hexane	57		7.472				ND	
34 1,1-Dichloroethane	63		7.942				ND	
35 Vinyl acetate	43		8.007				ND	
37 cis-1,2-Dichloroethene	96		8.964				ND	
38 2-Butanone (MEK)	72		9.039				ND	
39 Ethyl acetate	88		9.066				ND	
* 40 Chlorobromomethane	128	9.403	9.408	-0.005	74	404192	10.0	
41 Tetrahydrofuran	42		9.446				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.521				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
43 Cyclohexane	84		9.761				ND	
44 1,1,1-Trichloroethane	97		9.793				ND	
45 Carbon tetrachloride	117		10.029				ND	
46 Isooctane	57		10.435				ND	
47 Benzene	78		10.489				ND	
48 1,2-Dichloroethane	62		10.671				ND	
49 n-Heptane	43		10.810				ND	
* 50 1,4-Difluorobenzene	114	11.302	11.307	-0.005	94	2013953	10.0	
53 Trichloroethene	95		11.767				ND	
54 1,2-Dichloropropane	63		12.324				ND	
55 Methyl methacrylate	69		12.500				ND	
57 Dibromomethane	174		12.575				ND	
56 1,4-Dioxane	88		12.575				ND	
58 Dichlorobromomethane	83		12.859				ND	
60 cis-1,3-Dichloropropene	75		13.779				ND	
61 4-Methyl-2-pentanone (MIBK	43		14.100				ND	
65 Toluene	92		14.357				ND	
66 trans-1,3-Dichloropropene	75		14.961				ND	
67 1,1,2-Trichloroethane	83		15.336				ND	
68 Tetrachloroethene	166		15.421				ND	
69 2-Hexanone	43		15.817				ND	
71 Chlorodibromomethane	129		16.090				ND	
72 Ethylene Dibromide	107		16.363				ND	
* 74 Chlorobenzene-d5	117	17.262	17.267	-0.005	88	1687458	10.0	
75 Chlorobenzene	112		17.326				ND	
76 Ethylbenzene	91		17.481				ND	
78 m-Xylene & p-Xylene	106		17.738				ND	
79 o-Xylene	106		18.594				ND	
80 Styrene	104		18.653				ND	
81 Bromoform	173		19.097				ND	
82 Isopropylbenzene	105		19.327				ND	
S 73 Xylenes, Total	106		19.600				ND	
84 1,1,2,2-Tetrachloroethane	83		20.033				ND	
85 N-Propylbenzene	91		20.097				ND	
88 4-Ethyltoluene	105		20.300				ND	
89 2-Chlorotoluene	91		20.300				ND	
90 1,3,5-Trimethylbenzene	105		20.413				ND	
92 tert-Butylbenzene	119		20.921				ND	
93 1,2,4-Trimethylbenzene	105		21.022				ND	
94 sec-Butylbenzene	105		21.258				ND	
95 4-Isopropyltoluene	119		21.472				ND	
96 1,3-Dichlorobenzene	146		21.488				ND	
97 1,4-Dichlorobenzene	146		21.627				ND	
98 Benzyl chloride	91		21.836				ND	
100 n-Butylbenzene	91		22.050				ND	
101 1,2-Dichlorobenzene	146		22.162				ND	
103 1,2,4-Trichlorobenzene	180		24.607				ND	
104 Hexachlorobutadiene	225		24.789				ND	
105 Naphthalene	128		25.078				ND	

Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

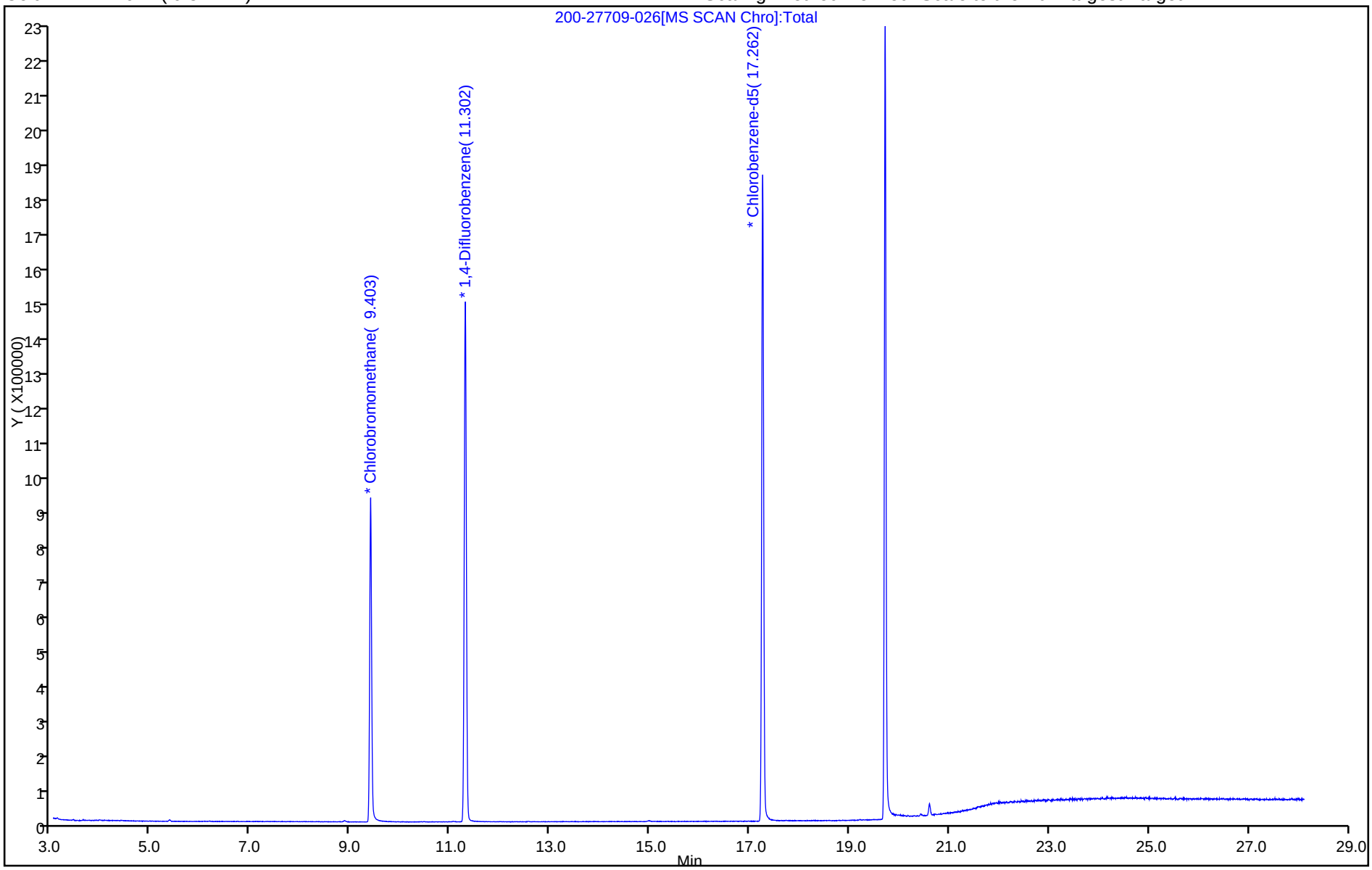
Report Date: 03-Nov-2017 11:50:32 Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20171102-27709.b\200-27709-026.D

Injection Date:	03-Nov-2017 07:50:30	Instrument ID:	CHG.i	Operator ID:	vtp
Lims ID:	200-40705-A-6	Lab Sample ID:	200-40705-6	Worklist Smp#:	26
Client ID:	5453				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	26
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		

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



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

Lab Name: TestAmerica Burlington Job No.: 200-40706-1

SDG No.:

Client Sample ID: 5632 Lab Sample ID: 200-40706-6

Matrix: Air Lab File ID: 27725_08.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 15:43

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122903 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene(Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

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

Lab Name: TestAmerica Burlington Job No.: 200-40706-1

SDG No.:

Client Sample ID: 5632 Lab Sample ID: 200-40706-6

Matrix: Air Lab File ID: 27725_08.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 15:43

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122903 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

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

Lab Name: TestAmerica Burlington Job No.: 200-40706-1

SDG No.:

Client Sample ID: 5632 Lab Sample ID: 200-40706-6

Matrix: Air Lab File ID: 27725_08.D

Analysis Method: TO-15 Date Collected: 10/31/2017 00:00

Sample wt/vol: 1000(mL) Date Analyzed: 11/03/2017 15:43

Soil Aliquot Vol: Dilution Factor: 0.2

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 122903 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20171103-27725.b\27725_08.D
Lims ID: 200-40706-A-6
Client ID: 5632
Sample Type: Client
Inject. Date: 03-Nov-2017 15:43:30 ALS Bottle#: 8 Worklist Smp#: 8
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Sample Info: 200-0027725-008
Misc. Info.: 40706-06
Operator ID: pad Instrument ID: CHX.i

Method: \\ChromNA\Burlington\ChromData\CHX.i\20171103-27725.b\TO15_MasterMethod_X.m.m
Limit Group: AI_TO15_ICAL
Last Update: 06-Nov-2017 09:07:14 Calib Date: 24-Oct-2017 00:08:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHX.i\20171023-27547.b\27547_12.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK013

First Level Reviewer: puangmaleek Date: 06-Nov-2017 09:07:14

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	1 Propene	41		3.044				ND	
	2 Dichlorodifluoromethane	85		3.108				ND	
	3 Chlorodifluoromethane	51		3.156				ND	
	4 1,2-Dichloro-1,1,2,2-tetra	85		3.354				ND	
	5 Chloromethane	50	3.493	3.488	0.005	94	1208	0.0489	
	6 Butane	43		3.670				ND	
	7 Vinyl chloride	62		3.712				ND	
	8 Butadiene	54		3.782				ND	
	10 Bromomethane	94		4.419				ND	
	11 Chloroethane	64		4.638				ND	
	13 Vinyl bromide	106		5.007				ND	
	14 Trichlorofluoromethane	101		5.098				ND	
	17 Ethanol	45	5.697	5.654	0.043	97	2999	0.2201	
	20 1,1,2-Trichloro-1,2,2-trif	101		6.120				ND	
	21 1,1-Dichloroethene	96		6.173				ND	
	22 Acetone	43		6.425				ND	
	23 Carbon disulfide	76		6.564				ND	
	24 Isopropyl alcohol	45	6.762	6.708	0.054	97	3558	0.0782	
	25 3-Chloro-1-propene	41		6.949				ND	
	27 Methylene Chloride	49		7.243				ND	
	28 2-Methyl-2-propanol	59		7.479				ND	
	29 Methyl tert-butyl ether	73		7.645				ND	
	31 trans-1,2-Dichloroethene	61		7.677				ND	
	33 Hexane	57		8.046				ND	
	34 1,1-Dichloroethane	63		8.565				ND	
	35 Vinyl acetate	43		8.645				ND	
S	30 1,2-Dichloroethene, Total	61		9.665				ND	
	37 cis-1,2-Dichloroethene	96		9.699				ND	
	38 2-Butanone (MEK)	72		9.768				ND	
	39 Ethyl acetate	88		9.806				ND	
*	40 Chlorobromomethane	128	10.186	10.186	0.000	98	313748	10.0	

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
	41 Tetrahydrofuran	42		10.202				ND	
	42 Chloroform	83		10.325				ND	
	43 Cyclohexane	84		10.560				ND	
	44 1,1,1-Trichloroethane	97		10.603				ND	
	45 Carbon tetrachloride	117		10.854				ND	
	46 Isooctane	57		11.309				ND	
	47 Benzene	78		11.363				ND	
	48 1,2-Dichloroethane	62		11.566				ND	
	49 n-Heptane	43		11.726				ND	
*	50 1,4-Difluorobenzene	114	12.267	12.267	0.000	95	1594194	10.0	
	53 Trichloroethene	95		12.759				ND	
	54 1,2-Dichloropropane	63		13.358				ND	
	55 Methyl methacrylate	69		13.545				ND	
	56 1,4-Dioxane	88		13.609				ND	
	57 Dibromomethane	174		13.625				ND	
	58 Dichlorobromomethane	83		13.941				ND	
	60 cis-1,3-Dichloropropene	75		14.920				ND	
	61 4-Methyl-2-pentanone (MIBK	43		15.241				ND	
	65 Toluene	92		15.530				ND	
	66 trans-1,3-Dichloropropene	75		16.177				ND	
	67 1,1,2-Trichloroethane	83		16.568				ND	
	68 Tetrachloroethene	166		16.659				ND	
	69 2-Hexanone	43		17.055				ND	
	71 Chlorodibromomethane	129		17.365				ND	
	72 Ethylene Dibromide	107		17.648				ND	
*	74 Chlorobenzene-d5	117	18.595	18.595	0.000	89	1382833	10.0	
	75 Chlorobenzene	112		18.660				ND	
	76 Ethylbenzene	91		18.820				ND	
	78 m-Xylene & p-Xylene	106		19.088				ND	
S	73 Xylenes, Total	106		19.600				ND	
	79 o-Xylene	106		19.981				ND	
	80 Styrene	104		20.045				ND	
	81 Bromoform	173		20.511				ND	
	82 Isopropylbenzene	105		20.741				ND	
	84 1,1,2,2-Tetrachloroethane	83		21.468				ND	
	85 N-Propylbenzene	91		21.527				ND	
	88 4-Ethyltoluene	105		21.730				ND	
	89 2-Chlorotoluene	91		21.736				ND	
	90 1,3,5-Trimethylbenzene	105		21.848				ND	
	92 tert-Butylbenzene	119		22.367				ND	
	93 1,2,4-Trimethylbenzene	105		22.469				ND	
	94 sec-Butylbenzene	105		22.709				ND	
	95 4-Isopropyltoluene	119		22.923				ND	
	96 1,3-Dichlorobenzene	146		22.950				ND	
	97 1,4-Dichlorobenzene	146		23.094				ND	
	98 Benzyl chloride	91		23.303				ND	
	100 n-Butylbenzene	91		23.517				ND	
	101 1,2-Dichlorobenzene	146		23.645				ND	
	103 1,2,4-Trichlorobenzene	180		26.213				ND	
	104 Hexachlorobutadiene	225		26.401				ND	
	105 Naphthalene	128		26.711				ND	

Reagents:

ATTO15XISs_00002 Amount Added: 20.00 Units: mL Run Reagent

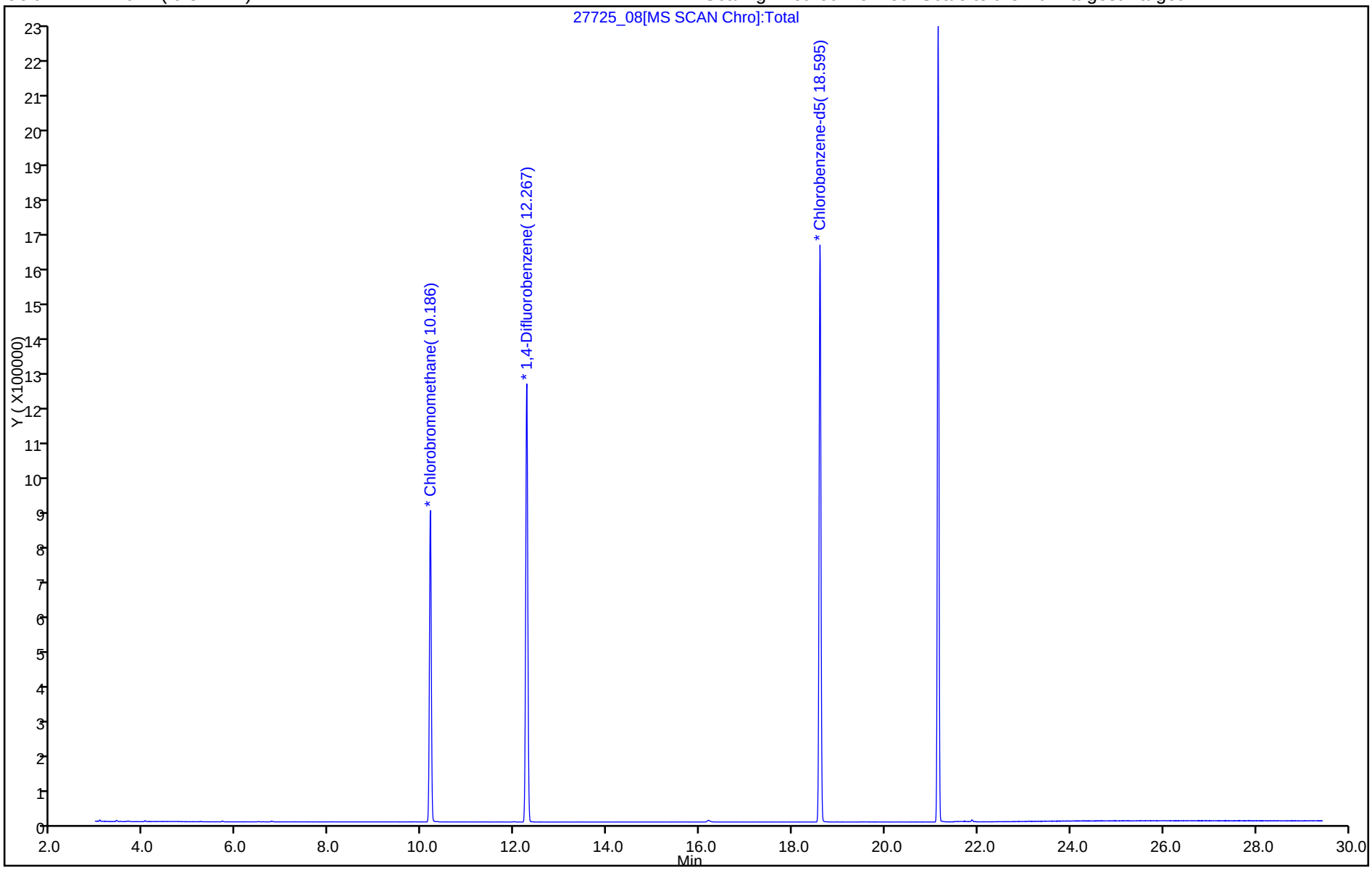
Report Date: 06-Nov-2017 09:07:15 Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHX.i\20171103-27725.b\27725_08.D

Injection Date:	03-Nov-2017 15:43:30	Instrument ID:	CHX.i	Operator ID:	pad
Lims ID:	200-40706-A-6	Lab Sample ID:	200-40706-6	Worklist Smp#:	8
Client ID:	5632				
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	ALS Bottle#:	8
Method:	TO15_MasterMethod_X.m	Limit Group:	AI_TO15_ICAL		

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



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
Tel: (802)660-1990

TestAmerica Job ID: 200-41045-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
11/29/2017 9:57:33 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
QC Sample Results 13
QC Association Summary 16
Lab Chronicle 17
Certification Summary 18
Method Summary 19
Sample Summary 20
Chain of Custody 21
Receipt Checklists 23
Clean Canister Certification 24
    Pre-Ship Certification 24
    Clean Canister Data 25

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Qualifiers

Air - GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Job ID: 200-41045-1

Laboratory: TestAmerica Burlington

Narrative

Job Narrative
200-41045-1

Receipt
The samples were received on 11/18/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice.

Receipt Exceptions
The Field Sampler was not listed on the Chain of Custody.

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-161-1-OA-20171115 (200-41045-3). The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Client Sample ID: SVI-161-2-SS-20171115 — Lab Sample ID: 200-41045-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.51	J	3.0	0.28	ppb v/v	6.06		TO-15	Total/NA
Trichlorofluoromethane	2.7		1.2	0.19	ppb v/v	6.06		TO-15	Total/NA
Acetone	130		30	7.9	ppb v/v	6.06		TO-15	Total/NA
Isopropanol	3.2	J B	30	0.79	ppb v/v	6.06		TO-15	Total/NA
Methylene Chloride	0.48	J B	3.0	0.41	ppb v/v	6.06		TO-15	Total/NA
n-Hexane	0.47	J	1.2	0.28	ppb v/v	6.06		TO-15	Total/NA
2-Butanone	2.2	J	3.0	0.67	ppb v/v	6.06		TO-15	Total/NA
1,1,1-Trichloroethane	1.3		1.2	0.16	ppb v/v	6.06		TO-15	Total/NA
Cyclohexane	0.53	J	1.2	0.27	ppb v/v	6.06		TO-15	Total/NA
Benzene	0.35	J	1.2	0.17	ppb v/v	6.06		TO-15	Total/NA
n-Heptane	1.1	J	1.2	0.41	ppb v/v	6.06		TO-15	Total/NA
Trichloroethene	17		1.2	0.055	ppb v/v	6.06		TO-15	Total/NA
4-Methyl-2-pentanone	31		3.0	0.39	ppb v/v	6.06		TO-15	Total/NA
Toluene	12		1.2	0.21	ppb v/v	6.06		TO-15	Total/NA
Tetrachloroethene	62		1.2	0.059	ppb v/v	6.06		TO-15	Total/NA
Ethylbenzene	6.6		1.2	0.21	ppb v/v	6.06		TO-15	Total/NA
m,p-Xylene	37		3.0	0.47	ppb v/v	6.06		TO-15	Total/NA
Xylene, o-	25		1.2	0.24	ppb v/v	6.06		TO-15	Total/NA
Xylene (total)	62		4.2	0.24	ppb v/v	6.06		TO-15	Total/NA
1,3,5-Trimethylbenzene	0.50	J	1.2	0.24	ppb v/v	6.06		TO-15	Total/NA
1,2,4-Trimethylbenzene	0.94	J	1.2	0.35	ppb v/v	6.06		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.5	J	15	1.4	ug/m3	6.06		TO-15	Total/NA
Trichlorofluoromethane	15		6.8	1.1	ug/m3	6.06		TO-15	Total/NA
Acetone	310		72	19	ug/m3	6.06		TO-15	Total/NA
Isopropanol	8.0	J B	74	1.9	ug/m3	6.06		TO-15	Total/NA
Methylene Chloride	1.7	J B	11	1.4	ug/m3	6.06		TO-15	Total/NA
n-Hexane	1.7	J	4.3	0.98	ug/m3	6.06		TO-15	Total/NA
2-Butanone	6.6	J	8.9	2.0	ug/m3	6.06		TO-15	Total/NA
1,1,1-Trichloroethane	7.2		6.6	0.86	ug/m3	6.06		TO-15	Total/NA
Cyclohexane	1.8	J	4.2	0.94	ug/m3	6.06		TO-15	Total/NA
Benzene	1.1	J	3.9	0.54	ug/m3	6.06		TO-15	Total/NA
n-Heptane	4.7	J	5.0	1.7	ug/m3	6.06		TO-15	Total/NA
Trichloroethene	91		6.5	0.30	ug/m3	6.06		TO-15	Total/NA
4-Methyl-2-pentanone	130		12	1.6	ug/m3	6.06		TO-15	Total/NA
Toluene	46		4.6	0.80	ug/m3	6.06		TO-15	Total/NA
Tetrachloroethene	420		8.2	0.40	ug/m3	6.06		TO-15	Total/NA
Ethylbenzene	29		5.3	0.89	ug/m3	6.06		TO-15	Total/NA
m,p-Xylene	160		13	2.0	ug/m3	6.06		TO-15	Total/NA
Xylene, o-	110		5.3	1.1	ug/m3	6.06		TO-15	Total/NA
Xylene (total)	270		18	1.1	ug/m3	6.06		TO-15	Total/NA
1,3,5-Trimethylbenzene	2.5	J	6.0	1.2	ug/m3	6.06		TO-15	Total/NA
1,2,4-Trimethylbenzene	4.6	J	6.0	1.7	ug/m3	6.06		TO-15	Total/NA

Client Sample ID: SVI-161-2-IA-20171115 — Lab Sample ID: 200-41045-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5100		990	260	ppb v/v	198		TO-15	Total/NA
Isopropanol	57	J B	990	26	ppb v/v	198		TO-15	Total/NA
Methylene Chloride	14	J B	99	13	ppb v/v	198		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-2-IA-20171115 (Continued) — Lab Sample ID: 200-41045-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
n-Hexane	15	J	40	9.1	ppb v/v	198		TO-15	Total/NA
Cyclohexane	16	J	40	8.9	ppb v/v	198		TO-15	Total/NA
Benzene	6.0	J	40	5.5	ppb v/v	198		TO-15	Total/NA
n-Heptane	47		40	13	ppb v/v	198		TO-15	Total/NA
Toluene	620		40	6.9	ppb v/v	198		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12000		2400	610	ug/m3	198		TO-15	Total/NA
Isopropanol	140	J B	2400	63	ug/m3	198		TO-15	Total/NA
Methylene Chloride	47	J B	340	47	ug/m3	198		TO-15	Total/NA
n-Hexane	52	J	140	32	ug/m3	198		TO-15	Total/NA
Cyclohexane	53	J	140	31	ug/m3	198		TO-15	Total/NA
Benzene	19	J	130	18	ug/m3	198		TO-15	Total/NA
n-Heptane	190		160	55	ug/m3	198		TO-15	Total/NA
Toluene	2300		150	26	ug/m3	198		TO-15	Total/NA

Client Sample ID: SVI-161-1-OA-20171115 — Lab Sample ID: 200-41045-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	0.48	J	0.50	0.047	ppb v/v	1		TO-15	Total/NA
Chloromethane	0.60		0.50	0.16	ppb v/v	1		TO-15	Total/NA
Trichlorofluoromethane	0.21		0.20	0.031	ppb v/v	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.068	J	0.20	0.027	ppb v/v	1		TO-15	Total/NA
Acetone	2.2	J	5.0	1.3	ppb v/v	1		TO-15	Total/NA
Isopropanol	0.47	J B	5.0	0.13	ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.18	J B	0.50	0.068	ppb v/v	1		TO-15	Total/NA
n-Hexane	0.086	J	0.20	0.046	ppb v/v	1		TO-15	Total/NA
2-Butanone	0.23	J	0.50	0.11	ppb v/v	1		TO-15	Total/NA
Carbon tetrachloride	0.063	J	0.20	0.011	ppb v/v	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.043	J	0.20	0.043	ppb v/v	1		TO-15	Total/NA
Benzene	0.15	J	0.20	0.028	ppb v/v	1		TO-15	Total/NA
Toluene	0.35		0.20	0.035	ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.029	J	0.20	0.0098	ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.036	J	0.20	0.034	ppb v/v	1		TO-15	Total/NA
m,p-Xylene	0.088	J	0.50	0.077	ppb v/v	1		TO-15	Total/NA
Xylene (total)	0.088	J	0.70	0.040	ppb v/v	1		TO-15	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Dichlorodifluoromethane	2.4	J	2.5	0.23	ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0	0.33	ug/m3	1		TO-15	Total/NA
Trichlorofluoromethane	1.2		1.1	0.17	ug/m3	1		TO-15	Total/NA
Trichlorotrifluoroethane	0.52	J	1.5	0.21	ug/m3	1		TO-15	Total/NA
Acetone	5.3	J	12	3.1	ug/m3	1		TO-15	Total/NA
Isopropanol	1.2	J B	12	0.32	ug/m3	1		TO-15	Total/NA
Methylene Chloride	0.64	J B	1.7	0.24	ug/m3	1		TO-15	Total/NA
n-Hexane	0.30	J	0.70	0.16	ug/m3	1		TO-15	Total/NA
2-Butanone	0.69	J	1.5	0.32	ug/m3	1		TO-15	Total/NA
Carbon tetrachloride	0.40	J	1.3	0.069	ug/m3	1		TO-15	Total/NA
2,2,4-Trimethylpentane	0.20	J	0.93	0.20	ug/m3	1		TO-15	Total/NA
Benzene	0.47	J	0.64	0.089	ug/m3	1		TO-15	Total/NA
Toluene	1.3		0.75	0.13	ug/m3	1		TO-15	Total/NA
Tetrachloroethene	0.19	J	1.4	0.066	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Client Sample ID: SVI-161-1-OA-20171115 (Continued) — Lab Sample ID: 200-41045-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	0.16	J	0.87	0.15	ug/m3	1		TO-15	Total/NA
m,p-Xylene	0.38	J	2.2	0.33	ug/m3	1		TO-15	Total/NA
Xylene (total)	0.38	J	3.0	0.17	ug/m3	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: SVI-161-2-SS-20171115
Date Collected: 11/15/17 14:45
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Lab Sample ID: 200-41045-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.51**	**J**	3.0	0.28	ppb v/v			11/20/17 16:29	6.06
Chloromethane	ND		3.0	0.97	ppb v/v			11/20/17 16:29	6.06
Trichlorofluoromethane	**2.7**		1.2	0.19	ppb v/v			11/20/17 16:29	6.06
Trichlorotrifluoroethane	ND		1.2	0.16	ppb v/v			11/20/17 16:29	6.06
1,1-Dichloroethene	ND		1.2	0.21	ppb v/v			11/20/17 16:29	6.06
Acetone	**130**		30	7.9	ppb v/v			11/20/17 16:29	6.06
Isopropanol	**3.2**	**J B**	30	0.79	ppb v/v			11/20/17 16:29	6.06
Methylene Chloride	**0.48**	**J B**	3.0	0.41	ppb v/v			11/20/17 16:29	6.06
n-Hexane	**0.47**	**J**	1.2	0.28	ppb v/v			11/20/17 16:29	6.06
1,1-Dichloroethane	ND		1.2	0.10	ppb v/v			11/20/17 16:29	6.06
2-Butanone	**2.2**	**J**	3.0	0.67	ppb v/v			11/20/17 16:29	6.06
Chloroform	ND		1.2	0.15	ppb v/v			11/20/17 16:29	6.06
1,1,1-Trichloroethane	**1.3**		1.2	0.16	ppb v/v			11/20/17 16:29	6.06
Cyclohexane	**0.53**	**J**	1.2	0.27	ppb v/v			11/20/17 16:29	6.06
Carbon tetrachloride	ND		1.2	0.067	ppb v/v			11/20/17 16:29	6.06
2,2,4-Trimethylpentane	ND		1.2	0.26	ppb v/v			11/20/17 16:29	6.06
Benzene	**0.35**	**J**	1.2	0.17	ppb v/v			11/20/17 16:29	6.06
n-Heptane	**1.1**	**J**	1.2	0.41	ppb v/v			11/20/17 16:29	6.06
Trichloroethene	**17**		1.2	0.055	ppb v/v			11/20/17 16:29	6.06
4-Methyl-2-pentanone	**31**		3.0	0.39	ppb v/v			11/20/17 16:29	6.06
Toluene	**12**		1.2	0.21	ppb v/v			11/20/17 16:29	6.06
1,1,2-Trichloroethane	ND		1.2	0.10	ppb v/v			11/20/17 16:29	6.06
Tetrachloroethene	**62**		1.2	0.059	ppb v/v			11/20/17 16:29	6.06
Ethylbenzene	**6.6**		1.2	0.21	ppb v/v			11/20/17 16:29	6.06
m,p-Xylene	**37**		3.0	0.47	ppb v/v			11/20/17 16:29	6.06
Xylene, o-	**25**		1.2	0.24	ppb v/v			11/20/17 16:29	6.06
Xylene (total)	**62**		4.2	0.24	ppb v/v			11/20/17 16:29	6.06
Styrene	ND		1.2	0.21	ppb v/v			11/20/17 16:29	6.06
4-Ethyltoluene	ND		1.2	0.24	ppb v/v			11/20/17 16:29	6.06
1,3,5-Trimethylbenzene	**0.50**	**J**	1.2	0.24	ppb v/v			11/20/17 16:29	6.06
1,2,4-Trimethylbenzene	**0.94**	**J**	1.2	0.35	ppb v/v			11/20/17 16:29	6.06

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.5**	**J**	15	1.4	ug/m3			11/20/17 16:29	6.06
Chloromethane	ND		6.3	2.0	ug/m3			11/20/17 16:29	6.06
Trichlorofluoromethane	**15**		6.8	1.1	ug/m3			11/20/17 16:29	6.06
Trichlorotrifluoroethane	ND		9.3	1.3	ug/m3			11/20/17 16:29	6.06
1,1-Dichloroethene	ND		4.8	0.84	ug/m3			11/20/17 16:29	6.06
Acetone	**310**		72	19	ug/m3			11/20/17 16:29	6.06
Isopropanol	**8.0**	**J B**	74	1.9	ug/m3			11/20/17 16:29	6.06
Methylene Chloride	**1.7**	**J B**	11	1.4	ug/m3			11/20/17 16:29	6.06
n-Hexane	**1.7**	**J**	4.3	0.98	ug/m3			11/20/17 16:29	6.06
1,1-Dichloroethane	ND		4.9	0.42	ug/m3			11/20/17 16:29	6.06
2-Butanone	**6.6**	**J**	8.9	2.0	ug/m3			11/20/17 16:29	6.06
Chloroform	ND		5.9	0.74	ug/m3			11/20/17 16:29	6.06
1,1,1-Trichloroethane	**7.2**		6.6	0.86	ug/m3			11/20/17 16:29	6.06
Cyclohexane	**1.8**	**J**	4.2	0.94	ug/m3			11/20/17 16:29	6.06
Carbon tetrachloride	ND		7.6	0.42	ug/m3			11/20/17 16:29	6.06
2,2,4-Trimethylpentane	ND		5.7	1.2	ug/m3			11/20/17 16:29	6.06

Client Sample ID: SVI-161-2-SS-20171115

Lab Sample ID: 200-41045-1
Matrix: Air
Date Collected: 11/15/17 14:45
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.1**	**J**	3.9	0.54	ug/m3			11/20/17 16:29	6.06
n-Heptane	**4.7**	**J**	5.0	1.7	ug/m3			11/20/17 16:29	6.06
Trichloroethene	**91**		6.5	0.30	ug/m3			11/20/17 16:29	6.06
4-Methyl-2-pentanone	**130**		12	1.6	ug/m3			11/20/17 16:29	6.06
Toluene	**46**		4.6	0.80	ug/m3			11/20/17 16:29	6.06
1,1,2-Trichloroethane	ND		6.6	0.56	ug/m3			11/20/17 16:29	6.06
Tetrachloroethene	**420**		8.2	0.40	ug/m3			11/20/17 16:29	6.06
Ethylbenzene	**29**		5.3	0.89	ug/m3			11/20/17 16:29	6.06
m,p-Xylene	**160**		13	2.0	ug/m3			11/20/17 16:29	6.06
Xylene, o-	**110**		5.3	1.1	ug/m3			11/20/17 16:29	6.06
Xylene (total)	**270**		18	1.1	ug/m3			11/20/17 16:29	6.06
Styrene	ND		5.2	0.90	ug/m3			11/20/17 16:29	6.06
4-Ethyltoluene	ND		6.0	1.2	ug/m3			11/20/17 16:29	6.06
1,3,5-Trimethylbenzene	**2.5**	**J**	6.0	1.2	ug/m3			11/20/17 16:29	6.06
1,2,4-Trimethylbenzene	**4.6**	**J**	6.0	1.7	ug/m3			11/20/17 16:29	6.06

Client Sample ID: SVI-161-2-IA-20171115

Lab Sample ID: 200-41045-2
Matrix: Air
Date Collected: 11/15/17 14:00
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		99	9.3	ppb v/v			11/20/17 17:18	198
Chloromethane	ND		99	32	ppb v/v			11/20/17 17:18	198
Trichlorofluoromethane	ND		40	6.1	ppb v/v			11/20/17 17:18	198
Trichlorotrifluoroethane	ND		40	5.3	ppb v/v			11/20/17 17:18	198
1,1-Dichloroethene	ND		40	6.9	ppb v/v			11/20/17 17:18	198
Acetone	**5100**		990	260	ppb v/v			11/20/17 17:18	198
Isopropanol	**57**	**J B**	990	26	ppb v/v			11/20/17 17:18	198
Methylene Chloride	**14**	**J B**	99	13	ppb v/v			11/20/17 17:18	198
n-Hexane	**15**	**J**	40	9.1	ppb v/v			11/20/17 17:18	198
1,1-Dichloroethane	ND		40	3.4	ppb v/v			11/20/17 17:18	198
2-Butanone	ND		99	22	ppb v/v			11/20/17 17:18	198
Chloroform	ND		40	5.0	ppb v/v			11/20/17 17:18	198
1,1,1-Trichloroethane	ND		40	5.1	ppb v/v			11/20/17 17:18	198
Cyclohexane	**16**	**J**	40	8.9	ppb v/v			11/20/17 17:18	198
Carbon tetrachloride	ND		40	2.2	ppb v/v			11/20/17 17:18	198
2,2,4-Trimethylpentane	ND		40	8.5	ppb v/v			11/20/17 17:18	198
Benzene	**6.0**	**J**	40	5.5	ppb v/v			11/20/17 17:18	198
n-Heptane	**47**		40	13	ppb v/v			11/20/17 17:18	198
Trichloroethene	ND		40	1.8	ppb v/v			11/20/17 17:18	198
4-Methyl-2-pentanone	ND		99	13	ppb v/v			11/20/17 17:18	198
Toluene	**620**		40	6.9	ppb v/v			11/20/17 17:18	198
1,1,2-Trichloroethane	ND		40	3.4	ppb v/v			11/20/17 17:18	198
Tetrachloroethene	ND		40	1.9	ppb v/v			11/20/17 17:18	198
Ethylbenzene	ND		40	6.7	ppb v/v			11/20/17 17:18	198
m,p-Xylene	ND		99	15	ppb v/v			11/20/17 17:18	198
Xylene, o-	ND		40	7.9	ppb v/v			11/20/17 17:18	198

Client Sample ID: SVI-161-2-IA-20171115

Lab Sample ID: 200-41045-2

Date Collected: 11/15/17 14:00
Matrix: Air
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylene (total)	ND		140	7.9	ppb v/v			11/20/17 17:18	198
Styrene	ND		40	6.9	ppb v/v			11/20/17 17:18	198
4-Ethyltoluene	ND		40	7.9	ppb v/v			11/20/17 17:18	198
1,3,5-Trimethylbenzene	ND		40	7.9	ppb v/v			11/20/17 17:18	198
1,2,4-Trimethylbenzene	ND		40	11	ppb v/v			11/20/17 17:18	198

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		490	46	ug/m3			11/20/17 17:18	198
Chloromethane	ND		200	65	ug/m3			11/20/17 17:18	198
Trichlorofluoromethane	ND		220	34	ug/m3			11/20/17 17:18	198
Trichlorotrifluoroethane	ND		300	41	ug/m3			11/20/17 17:18	198
1,1-Dichloroethene	ND		160	27	ug/m3			11/20/17 17:18	198
Acetone	**12000**		2400	610	ug/m3			11/20/17 17:18	198
Isopropanol	**140**	**J B**	2400	63	ug/m3			11/20/17 17:18	198
Methylene Chloride	**47**	**J B**	340	47	ug/m3			11/20/17 17:18	198
n-Hexane	**52**	**J**	140	32	ug/m3			11/20/17 17:18	198
1,1-Dichloroethane	ND		160	14	ug/m3			11/20/17 17:18	198
2-Butanone	ND		290	64	ug/m3			11/20/17 17:18	198
Chloroform	ND		190	24	ug/m3			11/20/17 17:18	198
1,1,1-Trichloroethane	ND		220	28	ug/m3			11/20/17 17:18	198
Cyclohexane	**53**	**J**	140	31	ug/m3			11/20/17 17:18	198
Carbon tetrachloride	ND		250	14	ug/m3			11/20/17 17:18	198
2,2,4-Trimethylpentane	ND		190	40	ug/m3			11/20/17 17:18	198
Benzene	**19**	**J**	130	18	ug/m3			11/20/17 17:18	198
n-Heptane	**190**		160	55	ug/m3			11/20/17 17:18	198
Trichloroethene	ND		210	9.7	ug/m3			11/20/17 17:18	198
4-Methyl-2-pentanone	ND		410	53	ug/m3			11/20/17 17:18	198
Toluene	**2300**		150	26	ug/m3			11/20/17 17:18	198
1,1,2-Trichloroethane	ND		220	18	ug/m3			11/20/17 17:18	198
Tetrachloroethene	ND		270	13	ug/m3			11/20/17 17:18	198
Ethylbenzene	ND		170	29	ug/m3			11/20/17 17:18	198
m,p-Xylene	ND		430	66	ug/m3			11/20/17 17:18	198
Xylene, o-	ND		170	34	ug/m3			11/20/17 17:18	198
Xylene (total)	ND		600	34	ug/m3			11/20/17 17:18	198
Styrene	ND		170	30	ug/m3			11/20/17 17:18	198
4-Ethyltoluene	ND		190	39	ug/m3			11/20/17 17:18	198
1,3,5-Trimethylbenzene	ND		190	39	ug/m3			11/20/17 17:18	198
1,2,4-Trimethylbenzene	ND		190	55	ug/m3			11/20/17 17:18	198

Client Sample ID: SVI-161-1-OA-20171115

Lab Sample ID: 200-41045-3

Date Collected: 11/15/17 14:05
Matrix: Air
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**0.48**	**J**	0.50	0.047	ppb v/v			11/20/17 18:12	1
Chloromethane	**0.60**		0.50	0.16	ppb v/v			11/20/17 18:12	1
Trichlorofluoromethane	**0.21**		0.20	0.031	ppb v/v			11/20/17 18:12	1

Client Sample ID: SVI-161-1-OA-20171115
Lab Sample ID: 200-41045-3
Date Collected: 11/15/17 14:05
Matrix: Air
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorotrifluoroethane	**0.068**	**J**	0.20	0.027	ppb v/v			11/20/17 18:12	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 18:12	1
Acetone	**2.2**	**J**	5.0	1.3	ppb v/v			11/20/17 18:12	1
Isopropanol	**0.47**	**J B**	5.0	0.13	ppb v/v			11/20/17 18:12	1
Methylene Chloride	**0.18**	**J B**	0.50	0.068	ppb v/v			11/20/17 18:12	1
n-Hexane	**0.086**	**J**	0.20	0.046	ppb v/v			11/20/17 18:12	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 18:12	1
2-Butanone	**0.23**	**J**	0.50	0.11	ppb v/v			11/20/17 18:12	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 18:12	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 18:12	1
Cyclohexane	ND		0.20	0.045	ppb v/v			11/20/17 18:12	1
Carbon tetrachloride	**0.063**	**J**	0.20	0.011	ppb v/v			11/20/17 18:12	1
2,2,4-Trimethylpentane	**0.043**	**J**	0.20	0.043	ppb v/v			11/20/17 18:12	1
Benzene	**0.15**	**J**	0.20	0.028	ppb v/v			11/20/17 18:12	1
n-Heptane	ND		0.20	0.068	ppb v/v			11/20/17 18:12	1
Trichloroethene	ND		0.20	0.0091	ppb v/v			11/20/17 18:12	1
4-Methyl-2-pentanone	ND		0.50	0.065	ppb v/v			11/20/17 18:12	1
Toluene	**0.35**		0.20	0.035	ppb v/v			11/20/17 18:12	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 18:12	1
Tetrachloroethene	**0.029**	**J**	0.20	0.0098	ppb v/v			11/20/17 18:12	1
Ethylbenzene	**0.036**	**J**	0.20	0.034	ppb v/v			11/20/17 18:12	1
m,p-Xylene	**0.088**	**J**	0.50	0.077	ppb v/v			11/20/17 18:12	1
Xylene, o-	ND		0.20	0.040	ppb v/v			11/20/17 18:12	1
Xylene (total)	**0.088**	**J**	0.70	0.040	ppb v/v			11/20/17 18:12	1
Styrene	ND		0.20	0.035	ppb v/v			11/20/17 18:12	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/20/17 18:12	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/20/17 18:12	1
1,2,4-Trimethylbenzene	ND		0.20	0.057	ppb v/v			11/20/17 18:12	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	**2.4**	**J**	2.5	0.23	ug/m3			11/20/17 18:12	1
Chloromethane	**1.2**		1.0	0.33	ug/m3			11/20/17 18:12	1
Trichlorofluoromethane	**1.2**		1.1	0.17	ug/m3			11/20/17 18:12	1
Trichlorotrifluoroethane	**0.52**	**J**	1.5	0.21	ug/m3			11/20/17 18:12	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 18:12	1
Acetone	**5.3**	**J**	12	3.1	ug/m3			11/20/17 18:12	1
Isopropanol	**1.2**	**J B**	12	0.32	ug/m3			11/20/17 18:12	1
Methylene Chloride	**0.64**	**J B**	1.7	0.24	ug/m3			11/20/17 18:12	1
n-Hexane	**0.30**	**J**	0.70	0.16	ug/m3			11/20/17 18:12	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 18:12	1
2-Butanone	**0.69**	**J**	1.5	0.32	ug/m3			11/20/17 18:12	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 18:12	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 18:12	1
Cyclohexane	ND		0.69	0.15	ug/m3			11/20/17 18:12	1
Carbon tetrachloride	**0.40**	**J**	1.3	0.069	ug/m3			11/20/17 18:12	1
2,2,4-Trimethylpentane	**0.20**	**J**	0.93	0.20	ug/m3			11/20/17 18:12	1
Benzene	**0.47**	**J**	0.64	0.089	ug/m3			11/20/17 18:12	1
n-Heptane	ND		0.82	0.28	ug/m3			11/20/17 18:12	1
Trichloroethene	ND		1.1	0.049	ug/m3			11/20/17 18:12	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Client Sample ID: SVI-161-1-OA-20171115
Lab Sample ID: 200-41045-3
Date Collected: 11/15/17 14:05
Matrix: Air
Date Received: 11/18/17 10:00
Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone	ND		2.0	0.27	ug/m3			11/20/17 18:12	1
Toluene	**1.3**		0.75	0.13	ug/m3			11/20/17 18:12	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 18:12	1
Tetrachloroethene	**0.19**	**J**	1.4	0.066	ug/m3			11/20/17 18:12	1
Ethylbenzene	**0.16**	**J**	0.87	0.15	ug/m3			11/20/17 18:12	1
m,p-Xylene	**0.38**	**J**	2.2	0.33	ug/m3			11/20/17 18:12	1
Xylene, o-	ND		0.87	0.17	ug/m3			11/20/17 18:12	1
Xylene (total)	**0.38**	**J**	3.0	0.17	ug/m3			11/20/17 18:12	1
Styrene	ND		0.85	0.15	ug/m3			11/20/17 18:12	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/20/17 18:12	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/20/17 18:12	1
1,2,4-Trimethylbenzene	ND		0.98	0.28	ug/m3			11/20/17 18:12	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-123529/4
Matrix: Air
Analysis Batch: 123529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		0.50	0.047	ppb v/v			11/20/17 12:24	1
Chloromethane	ND		0.50	0.16	ppb v/v			11/20/17 12:24	1
Trichlorofluoromethane	ND		0.20	0.031	ppb v/v			11/20/17 12:24	1
Trichlorotrifluoroethane	ND		0.20	0.027	ppb v/v			11/20/17 12:24	1
1,1-Dichloroethene	ND		0.20	0.035	ppb v/v			11/20/17 12:24	1
Acetone	ND		5.0	1.3	ppb v/v			11/20/17 12:24	1
Isopropanol	0.251	J	5.0	0.13	ppb v/v			11/20/17 12:24	1
Methylene Chloride	0.0747	J	0.50	0.068	ppb v/v			11/20/17 12:24	1
n-Hexane	ND		0.20	0.046	ppb v/v			11/20/17 12:24	1
1,1-Dichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 12:24	1
2-Butanone	ND		0.50	0.11	ppb v/v			11/20/17 12:24	1
Chloroform	ND		0.20	0.025	ppb v/v			11/20/17 12:24	1
1,1,1-Trichloroethane	ND		0.20	0.026	ppb v/v			11/20/17 12:24	1
Cyclohexane	ND		0.20	0.045	ppb v/v			11/20/17 12:24	1
Carbon tetrachloride	ND		0.20	0.011	ppb v/v			11/20/17 12:24	1
2,2,4-Trimethylpentane	ND		0.20	0.043	ppb v/v			11/20/17 12:24	1
Benzene	ND		0.20	0.028	ppb v/v			11/20/17 12:24	1
n-Heptane	ND		0.20	0.068	ppb v/v			11/20/17 12:24	1
Trichloroethene	ND		0.20	0.0091	ppb v/v			11/20/17 12:24	1
4-Methyl-2-pentanone	ND		0.50	0.065	ppb v/v			11/20/17 12:24	1
Toluene	ND		0.20	0.035	ppb v/v			11/20/17 12:24	1
1,1,2-Trichloroethane	ND		0.20	0.017	ppb v/v			11/20/17 12:24	1
Tetrachloroethene	ND		0.20	0.0098	ppb v/v			11/20/17 12:24	1
Ethylbenzene	ND		0.20	0.034	ppb v/v			11/20/17 12:24	1
m,p-Xylene	ND		0.50	0.077	ppb v/v			11/20/17 12:24	1
Xylene, o-	ND		0.20	0.040	ppb v/v			11/20/17 12:24	1
Xylene (total)	ND		0.70	0.040	ppb v/v			11/20/17 12:24	1
Styrene	ND		0.20	0.035	ppb v/v			11/20/17 12:24	1
4-Ethyltoluene	ND		0.20	0.040	ppb v/v			11/20/17 12:24	1
1,3,5-Trimethylbenzene	ND		0.20	0.040	ppb v/v			11/20/17 12:24	1
1,2,4-Trimethylbenzene	ND		0.20	0.057	ppb v/v			11/20/17 12:24	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	ND		2.5	0.23	ug/m3			11/20/17 12:24	1
Chloromethane	ND		1.0	0.33	ug/m3			11/20/17 12:24	1
Trichlorofluoromethane	ND		1.1	0.17	ug/m3			11/20/17 12:24	1
Trichlorotrifluoroethane	ND		1.5	0.21	ug/m3			11/20/17 12:24	1
1,1-Dichloroethene	ND		0.79	0.14	ug/m3			11/20/17 12:24	1
Acetone	ND		12	3.1	ug/m3			11/20/17 12:24	1
Isopropanol	0.616	J	12	0.32	ug/m3			11/20/17 12:24	1
Methylene Chloride	0.260	J	1.7	0.24	ug/m3			11/20/17 12:24	1
n-Hexane	ND		0.70	0.16	ug/m3			11/20/17 12:24	1
1,1-Dichloroethane	ND		0.81	0.069	ug/m3			11/20/17 12:24	1
2-Butanone	ND		1.5	0.32	ug/m3			11/20/17 12:24	1
Chloroform	ND		0.98	0.12	ug/m3			11/20/17 12:24	1
1,1,1-Trichloroethane	ND		1.1	0.14	ug/m3			11/20/17 12:24	1
Cyclohexane	ND		0.69	0.15	ug/m3			11/20/17 12:24	1
Carbon tetrachloride	ND		1.3	0.069	ug/m3			11/20/17 12:24	1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-123529/4
Matrix: Air
Analysis Batch: 123529

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,2,4-Trimethylpentane	ND		0.93	0.20	ug/m3			11/20/17 12:24	1
Benzene	ND		0.64	0.089	ug/m3			11/20/17 12:24	1
n-Heptane	ND		0.82	0.28	ug/m3			11/20/17 12:24	1
Trichloroethene	ND		1.1	0.049	ug/m3			11/20/17 12:24	1
4-Methyl-2-pentanone	ND		2.0	0.27	ug/m3			11/20/17 12:24	1
Toluene	ND		0.75	0.13	ug/m3			11/20/17 12:24	1
1,1,2-Trichloroethane	ND		1.1	0.093	ug/m3			11/20/17 12:24	1
Tetrachloroethene	ND		1.4	0.066	ug/m3			11/20/17 12:24	1
Ethylbenzene	ND		0.87	0.15	ug/m3			11/20/17 12:24	1
m,p-Xylene	ND		2.2	0.33	ug/m3			11/20/17 12:24	1
Xylene, o-	ND		0.87	0.17	ug/m3			11/20/17 12:24	1
Xylene (total)	ND		3.0	0.17	ug/m3			11/20/17 12:24	1
Styrene	ND		0.85	0.15	ug/m3			11/20/17 12:24	1
4-Ethyltoluene	ND		0.98	0.20	ug/m3			11/20/17 12:24	1
1,3,5-Trimethylbenzene	ND		0.98	0.20	ug/m3			11/20/17 12:24	1
1,2,4-Trimethylbenzene	ND		0.98	0.28	ug/m3			11/20/17 12:24	1

Lab Sample ID: LCS 200-123529/3
Matrix: Air
Analysis Batch: 123529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	10.0	9.73		ppb v/v		97	68 - 128
Chloromethane	10.0	9.45		ppb v/v		95	57 - 126
Trichlorofluoromethane	10.0	9.66		ppb v/v		97	67 - 127
Trichlorotrifluoroethane	10.0	9.66		ppb v/v		97	68 - 128
1,1-Dichloroethene	10.0	9.36		ppb v/v		94	67 - 127
Acetone	10.0	10.2		ppb v/v		102	64 - 136
Isopropanol	10.0	10.5		ppb v/v		105	55 - 124
Methylene Chloride	10.0	9.82		ppb v/v		98	62 - 122
n-Hexane	10.0	9.59		ppb v/v		96	71 - 131
1,1-Dichloroethane	10.0	9.37		ppb v/v		94	66 - 126
2-Butanone	10.0	10.4		ppb v/v		104	62 - 122
Chloroform	10.0	9.65		ppb v/v		97	69 - 129
1,1,1-Trichloroethane	10.0	9.80		ppb v/v		98	70 - 130
Cyclohexane	10.0	9.87		ppb v/v		99	69 - 129
Carbon tetrachloride	10.0	9.60		ppb v/v		96	62 - 143
2,2,4-Trimethylpentane	10.0	9.83		ppb v/v		98	67 - 127
Benzene	10.0	9.70		ppb v/v		97	67 - 127
n-Heptane	10.0	9.67		ppb v/v		97	62 - 130
Trichloroethene	10.0	9.37		ppb v/v		94	68 - 128
4-Methyl-2-pentanone	10.0	10.7		ppb v/v		107	62 - 130
Toluene	10.0	9.97		ppb v/v		100	67 - 127
1,1,2-Trichloroethane	10.0	10.0		ppb v/v		100	69 - 129
Tetrachloroethene	10.0	9.33		ppb v/v		93	70 - 130
Ethylbenzene	10.0	10.2		ppb v/v		102	68 - 128
m,p-Xylene	20.0	20.3		ppb v/v		101	68 - 128
Xylene, o-	10.0	10.1		ppb v/v		101	67 - 127

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-123529/3
Matrix: Air
Analysis Batch: 123529

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	10.0	10.4		ppb v/v		104	68 - 128
4-Ethyltoluene	10.0	10.4		ppb v/v		104	69 - 129
1,3,5-Trimethylbenzene	10.0	10.2		ppb v/v		102	65 - 125
1,2,4-Trimethylbenzene	10.0	10.4		ppb v/v		104	65 - 125

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorodifluoromethane	49	48.1		ug/m3		97	68 - 128
Chloromethane	21	19.5		ug/m3		95	57 - 126
Trichlorofluoromethane	56	54.3		ug/m3		97	67 - 127
Trichlorotrifluoroethane	77	74.1		ug/m3		97	68 - 128
1,1-Dichloroethene	40	37.1		ug/m3		94	67 - 127
Acetone	24	24.2		ug/m3		102	64 - 136
Isopropanol	25	25.8		ug/m3		105	55 - 124
Methylene Chloride	35	34.1		ug/m3		98	62 - 122
n-Hexane	35	33.8		ug/m3		96	71 - 131
1,1-Dichloroethane	40	37.9		ug/m3		94	66 - 126
2-Butanone	29	30.5		ug/m3		104	62 - 122
Chloroform	49	47.1		ug/m3		97	69 - 129
1,1,1-Trichloroethane	55	53.5		ug/m3		98	70 - 130
Cyclohexane	34	34.0		ug/m3		99	69 - 129
Carbon tetrachloride	63	60.4		ug/m3		96	62 - 143
2,2,4-Trimethylpentane	47	45.9		ug/m3		98	67 - 127
Benzene	32	31.0		ug/m3		97	67 - 127
n-Heptane	41	39.6		ug/m3		97	62 - 130
Trichloroethene	54	50.4		ug/m3		94	68 - 128
4-Methyl-2-pentanone	41	43.7		ug/m3		107	62 - 130
Toluene	38	37.6		ug/m3		100	67 - 127
1,1,2-Trichloroethane	55	54.8		ug/m3		100	69 - 129
Tetrachloroethene	68	63.3		ug/m3		93	70 - 130
Ethylbenzene	43	44.1		ug/m3		102	68 - 128
m,p-Xylene	87	87.9		ug/m3		101	68 - 128
Xylene, o-	43	43.7		ug/m3		101	67 - 127
Styrene	43	44.5		ug/m3		104	68 - 128
4-Ethyltoluene	49	51.1		ug/m3		104	69 - 129
1,3,5-Trimethylbenzene	49	50.2		ug/m3		102	65 - 125
1,2,4-Trimethylbenzene	49	51.3		ug/m3		104	65 - 125

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Air - GC/MS VOA

Analysis Batch: 123529

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-41045-1	SVI-161-2-SS-20171115	Total/NA	Air	TO-15	
200-41045-2	SVI-161-2-IA-20171115	Total/NA	Air	TO-15	
200-41045-3	SVI-161-1-OA-20171115	Total/NA	Air	TO-15	
MB 200-123529/4	Method Blank	Total/NA	Air	TO-15	
LCS 200-123529/3	Lab Control Sample	Total/NA	Air	TO-15	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Client Sample ID: SVI-161-2-SS-20171115
Lab Sample ID: 200-41045-1
Date Collected: 11/15/17 14:45
Matrix: Air
Date Received: 11/18/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		6.06	123529	11/20/17 16:29	K1P	TAL BUR

Client Sample ID: SVI-161-2-IA-20171115
Lab Sample ID: 200-41045-2
Date Collected: 11/15/17 14:00
Matrix: Air
Date Received: 11/18/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		198	123529	11/20/17 17:18	K1P	TAL BUR

Client Sample ID: SVI-161-1-OA-20171115
Lab Sample ID: 200-41045-3
Date Collected: 11/15/17 14:05
Matrix: Air
Date Received: 11/18/17 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	123529	11/20/17 18:12	K1P	TAL BUR

Laboratory References:

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

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17 *
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17 *
Virginia	NELAP	3	460209	12-14-17 *

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 200-41045-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-41045-1	SVI-161-2-SS-20171115	Air	11/15/17 14:45	11/18/17 10:00
200-41045-2	SVI-161-2-IA-20171115	Air	11/15/17 14:00	11/18/17 10:00
200-41045-3	SVI-161-1-OA-20171115	Air	11/15/17 14:05	11/18/17 10:00

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

Canister Samples Chain of Custody Record

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact Information	Client Project Manager: Amy Picarus	Samples Collected By:	COC No:
Company Name: Com Smith	Phone: 518-782-4500		1 of 1 COCs
Address: 11 Britton American	Email: Picarus@CDMSmith.com		
City/State/Zip Latham, NY 12110			For Lab Use Only:
Phone: 518-782-4500	Site Contact:		Walk-in Client:
FAX:	Tel/Fax		Lab Sampling:
Project Name: Former Akzo Nobel Coatings	Anaylsis Turnaround Time		Job / SDG No.:
Site/Location: Old Bethpage, NY	Standard (Specific):		(See below for Add'l Items)
P O #	Rush (Specifiy):		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)'	Canister Vacuum in Field, 'Hg (Stop)'	Flow Controller ID	Canister ID	TO-14/15 (Standard / Low Level)	TO-15 SIM	EPA 3C	EPA 25C	ASTM D-1946	EPA 15/16	Other (Please specify in notes sectio	Sample Type	Indoor Air/Ambient Air	Sub-Slab	Soil Gas	Soil Vapor Extraction (SVE)	Landfill Gas	Other (Please specify in notes section)	Sample Specific Notes:
SVI-161-2-SS-20171115	11/15	1012	1445	-30	-3	4749	3527	X														
SVI-161-2-1A-20171115	11/15	1013	1400	-30	-2	5187	5069	X														
SVI-161-1-0A-20171115	11/15	1015	1405	-29	-3	6013	3639	X														

Temperature (Fahrenheit)		
	Interior	Ambient
Start		
Stop	65	95

Pressure (inches of Hg)		
	Interior	Ambient
Start		
Stop	30.3	30.3

200-41045 COC

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date / Time: 11/16/17 11:10	Samples Received by:	11/16/17 1110
Samples Relinquished by: D Woody TAL NYC	Date / Time: 11/16 Aw	Received by: TABOR	11/18/17 1000
Relinquished by:	Date / Time:	Received by:	

Lab Use Only: Shipper Name: NYC TA Opened by: VW Condition: Intact

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

ORIGIN ID:AIVA (646) 745-0906
TESTAMERICA NYC
47-32 32ND PLACE,
SUITE 1141
LONG ISLAND CITY, NY 11101
UNITED STATES US
SHIP DATE: 16NOV17
ACTWGT: 10.00 LB
CAD: 101905570/INET3920
DIMS: 26x20x18 IN
BILL RECIPIENT
TO SAMPLING RECEIVING BVT
TESTAMERICA
30 COMMUNITY DR STE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF
INV:
PO
DEPT
549J3/F877/I04C
FedEx Express
J17211708130 1uur
FRI - 17 NOV 3:00P
STANDARD OVERNIGHT
TRK#
0201
7707 7267 0577
NC BTVA
05403
VT-US
BTV

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 200-41045-1

Login Number: 41045
List Number: 1
Creator: Hahl, Victoria L

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	N/A	Thermal preservation not required.
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID	# Cycles	Cleaning Date	Technician	Canister Size		Certification Type:	
Bottom Rack	50	11/3/2017	EJE	1L	6L	Individual	Batch

Port	Can ID	Initial[1] (psia)	Final (psia)	Diff.[3]	Final ("Hg)	Initial Reading Gauge:	Date:	Time:	Tech:	Temp:	Final Reading Gauge:	Date:	Time:	Tech:	Temp:
1	5082	30.5	30.5	0	-30.2	G25	11/6/2017	9:00	EJE	23	G25	11.13.17	17:30	EK	22
2	4376	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"
3	3792	"	30.6	0.1	"	G25	"	"	"	"	G25	"	"	"	"
4	3527	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"
5	5456	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"
6	5695	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"
7	3328	"	30.6	0.1	"	G25	"	"	"	"	G25	"	"	"	"
8	4115	30.5	30.5	0	-30.1	G25	11/9/17	11:20	EK	22	G25	11.10.17	12:45	EK	23
9	5069	30.5	30.6	0.1	-30.2	G25	11.6.17	9:00	EK	23	G25	11.13.17	17:30	EK	22
10	3639	"	30.24	0.19	"	G25	"	"	"	"	G25	"	"	"	"
11	3398	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"
12	5649	"	30.5	0	"	G25	"	"	"	"	G25	"	"	"	"

[1] Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

[3] Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister **PM Authorization** **Date:**

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level 1	2	3	4	Secondary Review Limited	Review Date	Reviewer
4115	11/7/17	27771	MC BRWRD		XXXX				11/8/17	EKT

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

FAI023:04.26.17:10
TestAmerica Burlington

200-40795-A-8
4115
Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 11/3/2017 12:00 AM 200-1092434

Loc: 200
40795
#8
A

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

Lab Name: TestAmerica Burlington Job No.: 200-40795-1

SDG No.:

Client Sample ID: 4115 Lab Sample ID: 200-40795-8

Matrix: Air Lab File ID: 200-27771-012.D

Analysis Method: TO-15 Date Collected: 11/03/2017 00:00

Sample wt/vol: 200(mL) Date Analyzed: 11/07/2017 20:28

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 123054 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	5.0	U	5.0	5.0
75-71-8	Dichlorodifluoromethane	0.50	U	0.50	0.50
75-45-6	Freon 22	0.50	U	0.50	0.50
76-14-2	1,2-Dichlorotetrafluoroethane	0.20	U	0.20	0.20
74-87-3	Chloromethane	0.50	U	0.50	0.50
106-97-8	n-Butane	0.50	U	0.50	0.50
75-01-4	Vinyl chloride	0.20	U	0.20	0.20
106-99-0	1,3-Butadiene	0.20	U	0.20	0.20
74-83-9	Bromomethane	0.20	U	0.20	0.20
75-00-3	Chloroethane	0.50	U	0.50	0.50
593-60-2	Bromoethene(Vinyl Bromide)	0.20	U	0.20	0.20
75-69-4	Trichlorofluoromethane	0.20	U	0.20	0.20
64-17-5	Ethanol	5.0	U	5.0	5.0
76-13-1	Freon TF	0.20	U	0.20	0.20
75-35-4	1,1-Dichloroethene	0.20	U	0.20	0.20
67-64-1	Acetone	5.0	U	5.0	5.0
67-63-0	Isopropyl alcohol	5.0	U	5.0	5.0
75-15-0	Carbon disulfide	0.50	U	0.50	0.50
107-05-1	3-Chloropropene	0.50	U	0.50	0.50
75-09-2	Methylene Chloride	0.50	U	0.50	0.50
75-65-0	tert-Butyl alcohol	5.0	U	5.0	5.0
1634-04-4	Methyl tert-butyl ether	0.20	U	0.20	0.20
156-60-5	trans-1,2-Dichloroethene	0.20	U	0.20	0.20
110-54-3	n-Hexane	0.20	U	0.20	0.20
75-34-3	1,1-Dichloroethane	0.20	U	0.20	0.20
108-05-4	Vinyl acetate	5.0	U	5.0	5.0
141-78-6	Ethyl acetate	5.0	U	5.0	5.0
78-93-3	Methyl Ethyl Ketone	0.50	U	0.50	0.50
156-59-2	cis-1,2-Dichloroethene	0.20	U	0.20	0.20
540-59-0	1,2-Dichloroethene, Total	0.40	U	0.40	0.40
67-66-3	Chloroform	0.20	U	0.20	0.20
109-99-9	Tetrahydrofuran	5.0	U	5.0	5.0
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	0.20
110-82-7	Cyclohexane	0.20	U	0.20	0.20
56-23-5	Carbon tetrachloride	0.20	U	0.20	0.20
540-84-1	2,2,4-Trimethylpentane	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-40795-1

SDG No.:

Client Sample ID: 4115 Lab Sample ID: 200-40795-8

Matrix: Air Lab File ID: 200-27771-012.D

Analysis Method: TO-15 Date Collected: 11/03/2017 00:00

Sample wt/vol: 200(mL) Date Analyzed: 11/07/2017 20:28

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 123054 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.20	U	0.20	0.20
107-06-2	1,2-Dichloroethane	0.20	U	0.20	0.20
142-82-5	n-Heptane	0.20	U	0.20	0.20
79-01-6	Trichloroethene	0.20	U	0.20	0.20
80-62-6	Methyl methacrylate	0.50	U	0.50	0.50
78-87-5	1,2-Dichloropropane	0.20	U	0.20	0.20
123-91-1	1,4-Dioxane	5.0	U	5.0	5.0
75-27-4	Bromodichloromethane	0.20	U	0.20	0.20
10061-01-5	cis-1,3-Dichloropropene	0.20	U	0.20	0.20
108-10-1	methyl isobutyl ketone	0.50	U	0.50	0.50
108-88-3	Toluene	0.20	U	0.20	0.20
10061-02-6	trans-1,3-Dichloropropene	0.20	U	0.20	0.20
79-00-5	1,1,2-Trichloroethane	0.20	U	0.20	0.20
127-18-4	Tetrachloroethene	0.20	U	0.20	0.20
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.50	U	0.50	0.50
124-48-1	Dibromochloromethane	0.20	U	0.20	0.20
106-93-4	1,2-Dibromoethane	0.20	U	0.20	0.20
108-90-7	Chlorobenzene	0.20	U	0.20	0.20
100-41-4	Ethylbenzene	0.20	U	0.20	0.20
179601-23-1	m,p-Xylene	0.50	U	0.50	0.50
95-47-6	Xylene, o-	0.20	U	0.20	0.20
1330-20-7	Xylene (total)	0.70	U	0.70	0.70
100-42-5	Styrene	0.20	U	0.20	0.20
75-25-2	Bromoform	0.20	U	0.20	0.20
98-82-8	Cumene	0.20	U	0.20	0.20
79-34-5	1,1,2,2-Tetrachloroethane	0.20	U	0.20	0.20
103-65-1	n-Propylbenzene	0.20	U	0.20	0.20
622-96-8	4-Ethyltoluene	0.20	U	0.20	0.20
108-67-8	1,3,5-Trimethylbenzene	0.20	U	0.20	0.20
95-49-8	2-Chlorotoluene	0.20	U	0.20	0.20
98-06-6	tert-Butylbenzene	0.20	U	0.20	0.20
95-63-6	1,2,4-Trimethylbenzene	0.20	U	0.20	0.20
135-98-8	sec-Butylbenzene	0.20	U	0.20	0.20
99-87-6	4-Isopropyltoluene	0.20	U	0.20	0.20
541-73-1	1,3-Dichlorobenzene	0.20	U	0.20	0.20
106-46-7	1,4-Dichlorobenzene	0.20	U	0.20	0.20

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

Lab Name: TestAmerica Burlington Job No.: 200-40795-1

SDG No.:

Client Sample ID: 4115 Lab Sample ID: 200-40795-8

Matrix: Air Lab File ID: 200-27771-012.D

Analysis Method: TO-15 Date Collected: 11/03/2017 00:00

Sample wt/vol: 200(mL) Date Analyzed: 11/07/2017 20:28

Soil Aliquot Vol: Dilution Factor: 1

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

% Moisture: Level: (low/med) Low

Analysis Batch No.: 123054 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.20	U	0.20	0.20
104-51-8	n-Butylbenzene	0.20	U	0.20	0.20
95-50-1	1,2-Dichlorobenzene	0.20	U	0.20	0.20
120-82-1	1,2,4-Trichlorobenzene	0.50	U	0.50	0.50
87-68-3	Hexachlorobutadiene	0.20	U	0.20	0.20
91-20-3	Naphthalene	0.50	U	0.50	0.50

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20171107-27771.b\200-27771-012.D
Lims ID: 200-40795-A-8
Client ID: 4115
Sample Type: Client
Inject. Date: 07-Nov-2017 20:28:30 ALS Bottle#: 12 Worklist Smp#: 12
Purge Vol: 200.000 mL Dil. Factor: 1.0000
Sample Info: 200-0027771-012
Operator ID: ERT Instrument ID: CHG.i

Method: \\ChromNA\Burlington\ChromData\CHG.i\20171107-27771.b\TO15_MasterMethod_(v1)_G.m
Limit Group: AI_TO15_ICAL
Last Update: 10-Nov-2017 10:15:56 Calib Date: 01-Nov-2017 01:45:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Burlington\ChromData\CHG.i\20171031-27684.b\200-27684-012.D

Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: tobere Date: 08-Nov-2017 11:36:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	3.133	3.122	0.011	76	2094	0.1219	
2 Dichlorodifluoromethane	85		3.181				ND	
3 Chlorodifluoromethane	51		3.219				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.390				ND	
5 Chloromethane	50	3.518	3.508	0.010	97	6694	0.2952	
6 Butane	43		3.663				ND	
7 Vinyl chloride	62		3.700				ND	
8 Butadiene	54		3.759				ND	
10 Bromomethane	94		4.305				ND	
11 Chloroethane	64		4.487				ND	
13 Vinyl bromide	106		4.808				ND	
14 Trichlorofluoromethane	101		4.877				ND	
17 Ethanol	45		5.348				ND	
20 1,1,2-Trichloro-1,2,2-trif	101		5.754				ND	
21 1,1-Dichloroethene	96		5.813				ND	
22 Acetone	43		6.038				ND	
23 Carbon disulfide	76	6.183	6.177	0.006	99	4638	0.0662	
24 Isopropyl alcohol	45		6.268				ND	
25 3-Chloro-1-propene	41		6.487				ND	
27 Methylene Chloride	49		6.749				ND	
28 2-Methyl-2-propanol	59		6.963				ND	
29 Methyl tert-butyl ether	73		7.129				ND	
31 trans-1,2-Dichloroethene	61		7.140				ND	
33 Hexane	57		7.477				ND	
34 1,1-Dichloroethane	63		7.948				ND	
35 Vinyl acetate	43		8.012				ND	
37 cis-1,2-Dichloroethene	96		8.975				ND	
38 2-Butanone (MEK)	72		9.044				ND	
39 Ethyl acetate	88		9.071				ND	
* 40 Chlorobromomethane	128	9.408	9.414	-0.006	75	412229	10.0	
41 Tetrahydrofuran	42		9.456				ND	
42 Chloroform	83		9.531				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
43 Cyclohexane	84		9.767				ND	
44 1,1,1-Trichloroethane	97		9.799				ND	
45 Carbon tetrachloride	117		10.034				ND	
46 Isooctane	57		10.441				ND	
47 Benzene	78		10.494				ND	
48 1,2-Dichloroethane	62		10.676				ND	
49 n-Heptane	43		10.815				ND	
* 50 1,4-Difluorobenzene	114	11.308	11.313	-0.005	94	2073339	10.0	
53 Trichloroethene	95		11.773				ND	
54 1,2-Dichloropropane	63		12.329				ND	
55 Methyl methacrylate	69		12.506				ND	
56 1,4-Dioxane	88		12.581				ND	
57 Dibromomethane	174		12.581				ND	
58 Dichlorobromomethane	83		12.864				ND	
60 cis-1,3-Dichloropropene	75		13.784				ND	
61 4-Methyl-2-pentanone (MIBK	43		14.100				ND	
65 Toluene	92		14.362				ND	
66 trans-1,3-Dichloropropene	75		14.967				ND	
67 1,1,2-Trichloroethane	83		15.336				ND	
68 Tetrachloroethene	166		15.427				ND	
69 2-Hexanone	43		15.823				ND	
71 Chlorodibromomethane	129		16.095				ND	
72 Ethylene Dibromide	107		16.368				ND	
* 74 Chlorobenzene-d5	117	17.267	17.267	0.000	86	1767594	10.0	
75 Chlorobenzene	112		17.326				ND	
76 Ethylbenzene	91		17.486				ND	
78 m-Xylene & p-Xylene	106		17.743				ND	
79 o-Xylene	106		18.594				ND	
80 Styrene	104		18.653				ND	
81 Bromoform	173		19.097				ND	
82 Isopropylbenzene	105		19.332				ND	
S 73 Xylenes, Total	106		19.600				ND	
84 1,1,2,2-Tetrachloroethane	83		20.033				ND	
85 N-Propylbenzene	91		20.097				ND	
88 4-Ethyltoluene	105		20.300				ND	
89 2-Chlorotoluene	91		20.300				ND	
90 1,3,5-Trimethylbenzene	105		20.418				ND	
92 tert-Butylbenzene	119		20.921				ND	
93 1,2,4-Trimethylbenzene	105		21.022				ND	
94 sec-Butylbenzene	105		21.263				ND	
95 4-Isopropyltoluene	119		21.472				ND	
96 1,3-Dichlorobenzene	146		21.493				ND	
97 1,4-Dichlorobenzene	146		21.632				ND	
98 Benzyl chloride	91		21.841				ND	
100 n-Butylbenzene	91		22.050				ND	
101 1,2-Dichlorobenzene	146		22.167				ND	
103 1,2,4-Trichlorobenzene	180		24.612				ND	
104 Hexachlorobutadiene	225		24.794				ND	
105 Naphthalene	128		25.083				ND	

Reagents:

ATTO15GIS_00015 Amount Added: 20.00 Units: mL Run Reagent

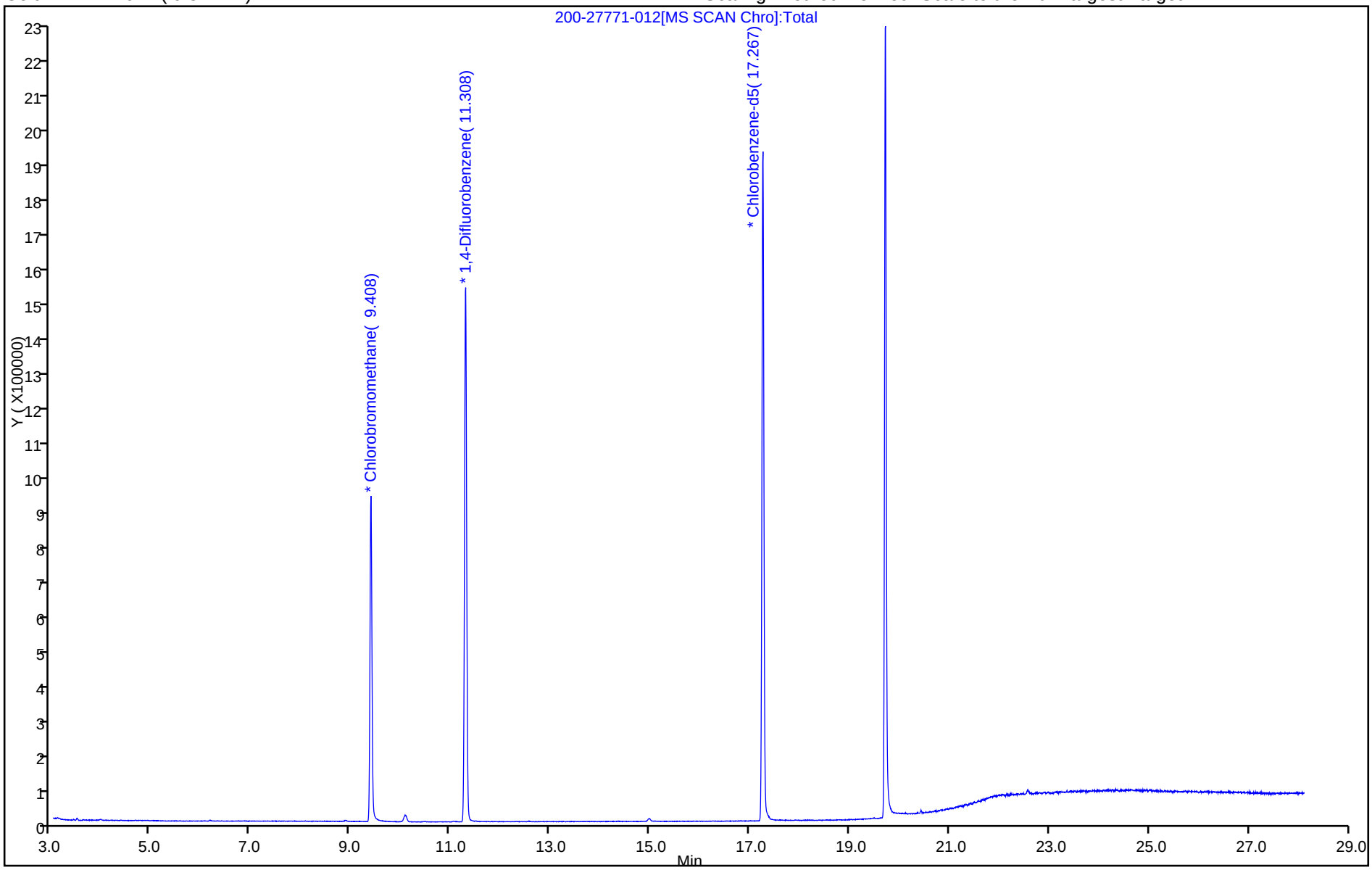
Report Date: 10-Nov-2017 10:16:51 Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\Burlington\ChromData\CHG.i\20171107-27771.b\200-27771-012.D

Injection Date:	07-Nov-2017 20:28:30	Instrument ID:	CHG.i	Operator ID:	ERT
Lims ID:	200-40795-A-8	Lab Sample ID:	200-40795-8	Worklist Smp#:	12
Client ID:	4115				
Purge Vol:	200.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	TO15_MasterMethod_(v1)_G	Limit Group:	AI_TO15_ICAL		

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



TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-137530-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
6/29/2018 10:45 AM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
06/29/2018

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 16

QC Sample Results 17

Definitions 25

QC Association 26

Chronicle 27

Certification Summary 29

Organic Sample Data 30

GC/MS VOA 30

Method 8260C 30

Method 8260C QC Summary 31

Method 8260C Sample Data 53

Standards Data 111

Method 8260C ICAL Data 111

Method 8260C CCAL Data 259

Raw QC Data 284

Method 8260C Tune Data 284

Method 8260C Blank Data 300

Method 8260C LCS/LCSD Data 323

Method 8260C MS/MSD Data 337

Table of Contents

Method 8260C Run Logs 348

Method 8260C Prep Data 353

Inorganic Sample Data 355

General Chemistry Data 355

Gen Chem Cover Page 356

Gen Chem MDL 357

Gen Chem Analysis Run Log 359

Gen Chem Prep Data 360

Shipping and Receiving Documents 361

Client Chain of Custody 362

Sample Receipt Checklist 363

Job Narrative
480-137530-1

Receipt
The samples were received on 6/15/2018 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level analysis and diluted to bring the concentration of target analytes within the calibration range: PDI-7-SO-17-06132018 (480-137530-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample were analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside of preparation holding time: PDI-6-SO-14-06132018 (480-137530-1), PDI-6-SO-16-06132018 (480-137530-2), PDI-106-SO-16-06132018 (480-137530-3) and PDI-8-SO-17-061318 (480-137530-5).

Method 8260C: The following samples were analyzed using medium level soil analysis and were diluted due to the nature of the sample matrix: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside preparation holding time: PDI-7-SO-17-06132018 (480-137530-4).

Method 8260C: The following samples were analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside of preparation holding time: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-420017 and analytical batch 480-420526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.The following samples are impacted: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]).

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137530-1	PDI-6-SO-14-06132018	Solid	06/13/18 09:00	06/15/18 10:45
480-137530-2	PDI-6-SO-16-06132018	Solid	06/13/18 09:05	06/15/18 10:45
480-137530-3	PDI-106-SO-16-06132018	Solid	06/13/18 09:10	06/15/18 10:45
480-137530-4	PDI-7-SO-17-06132018	Solid	06/13/18 09:40	06/15/18 10:45
480-137530-5	PDI-8-SO-17-061318	Solid	06/13/18 10:30	06/15/18 10:45
480-137530-6	PDI-9-SO-17-061318	Solid	06/13/18 11:40	06/15/18 10:45

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-6-SO-14-06132018 — Lab Sample ID: 480-137530-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4	J H	23	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.2	J H	4.5	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-6-SO-16-06132018 — Lab Sample ID: 480-137530-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.5	J H	5.2	0.38	ug/Kg	1	☼	8260C	Total/NA
Acetone	28	H	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.77	J H	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.0	J H	5.2	0.66	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	170	H	5.2	1.1	ug/Kg	1	☼	8260C	Total/NA
Trichlorofluoromethane	2.5	J H	5.2	0.49	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-106-SO-16-06132018 — Lab Sample ID: 480-137530-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.3	J H	5.3	0.39	ug/Kg	1	☼	8260C	Total/NA
Acetone	34	H	27	4.5	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.69	J H	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.3	J H	5.3	1.2	ug/Kg	1	☼	8260C	Total/NA
Trichlorofluoromethane	1.9	J H	5.3	0.50	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-7-SO-17-06132018 — Lab Sample ID: 480-137530-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	860	H F1 F2	750	190	ug/Kg	10	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1000	H F1 F2	750	210	ug/Kg	10	☼	8260C	Total/NA
Ethylbenzene	320	J H F1 F2	750	220	ug/Kg	10	☼	8260C	Total/NA
Tetrachloroethene	17000	H F2	750	100	ug/Kg	10	☼	8260C	Total/NA
Toluene	1300	H F1 F2	750	200	ug/Kg	10	☼	8260C	Total/NA
Trichloroethene	42000	H F2	750	210	ug/Kg	10	☼	8260C	Total/NA
Xylenes, Total	2000	H F1 F2	1500	420	ug/Kg	10	☼	8260C	Total/NA

Client Sample ID: PDI-8-SO-17-061318 — Lab Sample ID: 480-137530-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.1	J H	24	4.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-9-SO-17-061318 — Lab Sample ID: 480-137530-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: PDI-6-SO-14-06132018

Date Collected: 06/13/18 09:00
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-1

Matrix: Solid
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.5	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2,2-Tetrachloroethane	ND	H	4.5	0.74	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2-Trichloroethane	ND	H	4.5	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1-Dichloroethane	ND	H	4.5	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1-Dichloroethene	ND	H	4.5	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2,4-Trichlorobenzene	ND	H	4.5	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dibromo-3-Chloropropane	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichlorobenzene	ND	H	4.5	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichloroethane	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichloropropane	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,3-Dichlorobenzene	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,4-Dichlorobenzene	ND	H	4.5	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
2-Butanone (MEK)	ND	H	23	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
2-Hexanone	ND	H	23	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
4-Methyl-2-pentanone (MIBK)	ND	H	23	1.5	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Acetone	**5.4**	**J H**	23	3.8	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Benzene	ND	H	4.5	0.22	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromoform	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromomethane	ND	H	4.5	0.41	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Carbon disulfide	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Carbon tetrachloride	ND	H	4.5	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chlorobenzene	ND	H	4.5	0.60	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Dibromochloromethane	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloroethane	ND	H	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloroform	ND	H	4.5	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloromethane	ND	H	4.5	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
cis-1,2-Dichloroethene	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Cyclohexane	ND	H	4.5	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromodichloromethane	ND	H	4.5	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Dichlorodifluoromethane	ND	H	4.5	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Ethylbenzene	ND	H	4.5	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dibromoethane	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Isopropylbenzene	ND	H	4.5	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methyl acetate	ND	H	23	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methyl tert-butyl ether	ND	H	4.5	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methylcyclohexane	ND	H	4.5	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methylene Chloride	ND	H	4.5	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Tetrachloroethene	ND	H	4.5	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Toluene	ND	H	4.5	0.34	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
trans-1,2-Dichloroethene	ND	H	4.5	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
trans-1,3-Dichloropropene	ND	H	4.5	2.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Trichloroethene	**1.2**	**J H**	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Trichlorofluoromethane	ND	H	4.5	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Vinyl chloride	ND	H	4.5	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Xylenes, Total	ND	H	9.1	0.76	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
cis-1,3-Dichloropropene	ND	H	4.5	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Styrene	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1

Client Sample ID: PDI-6-SO-14-06132018

Lab Sample ID: 480-137530-1

Date Collected: 06/13/18 09:00
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 78.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	06/15/18 11:00	06/16/18 13:12	1
4-Bromofluorobenzene (Surr)	95		72 - 126	06/15/18 11:00	06/16/18 13:12	1
Toluene-d8 (Surr)	99		71 - 125	06/15/18 11:00	06/16/18 13:12	1
Dibromofluoromethane (Surr)	101		60 - 140	06/15/18 11:00	06/16/18 13:12	1

Client Sample ID: PDI-6-SO-16-06132018

Lab Sample ID: 480-137530-2

Date Collected: 06/13/18 09:05
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.5**	**J H**	5.2	0.38	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2,2-Tetrachloroethane	ND	H	5.2	0.84	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.2	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2-Trichloroethane	ND	H	5.2	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1-Dichloroethane	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1-Dichloroethene	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2,4-Trichlorobenzene	ND	H	5.2	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dibromo-3-Chloropropane	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichlorobenzene	ND	H	5.2	0.40	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichloroethane	ND	H	5.2	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichloropropane	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,3-Dichlorobenzene	ND	H	5.2	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,4-Dichlorobenzene	ND	H	5.2	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
2-Butanone (MEK)	ND	H	26	1.9	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
2-Hexanone	ND	H	26	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
4-Methyl-2-pentanone (MIBK)	ND	H	26	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Acetone	**28**	**H**	26	4.4	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Benzene	ND	H	5.2	0.25	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromoform	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromomethane	ND	H	5.2	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Carbon disulfide	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Carbon tetrachloride	ND	H	5.2	0.50	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chlorobenzene	ND	H	5.2	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Dibromochloromethane	ND	H	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloroethane	ND	H	5.2	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloroform	**0.77**	**J H**	5.2	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloromethane	ND	H	5.2	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
cis-1,2-Dichloroethene	**1.0**	**J H**	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Cyclohexane	ND	H	5.2	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromodichloromethane	ND	H	5.2	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Dichlorodifluoromethane	ND	H	5.2	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Ethylbenzene	ND	H	5.2	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dibromoethane	ND	H	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Isopropylbenzene	ND	H	5.2	0.78	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methyl acetate	ND	H	26	3.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methyl tert-butyl ether	ND	H	5.2	0.51	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methylcyclohexane	ND	H	5.2	0.79	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methylene Chloride	ND	H	5.2	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Tetrachloroethene	ND	H	5.2	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1

Client Sample ID: PDI-6-SO-16-06132018 — Lab Sample ID: 480-137530-2

Date Collected: 06/13/18 09:05 — **Matrix: Solid**
Date Received: 06/15/18 10:45 — **Percent Solids: 73.5**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	H	5.2	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
trans-1,2-Dichloroethene	ND	H	5.2	0.53	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
trans-1,3-Dichloropropene	ND	H	5.2	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Trichloroethene	**170**	**H**	5.2	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Trichlorofluoromethane	**2.5**	**J H**	5.2	0.49	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Vinyl chloride	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Xylenes, Total	ND	H	10	0.87	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
cis-1,3-Dichloropropene	ND	H	5.2	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Styrene	ND	H	5.2	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
4-Bromofluorobenzene (Surr)	*81*		*72 - 126*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
Toluene-d8 (Surr)	*108*		*71 - 125*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/15/18 11:00*	*06/16/18 13:38*	*1*

Client Sample ID: PDI-106-SO-16-06132018 — Lab Sample ID: 480-137530-3

Date Collected: 06/13/18 09:10 — **Matrix: Solid**
Date Received: 06/15/18 10:45 — **Percent Solids: 73.5**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**3.3**	**J H**	5.3	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2,2-Tetrachloroethane	ND	H	5.3	0.86	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2-Trichloroethane	ND	H	5.3	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1-Dichloroethane	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1-Dichloroethene	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2,4-Trichlorobenzene	ND	H	5.3	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dibromo-3-Chloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichlorobenzene	ND	H	5.3	0.42	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichloroethane	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,3-Dichlorobenzene	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,4-Dichlorobenzene	ND	H	5.3	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
2-Butanone (MEK)	ND	H	27	1.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
2-Hexanone	ND	H	27	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
4-Methyl-2-pentanone (MIBK)	ND	H	27	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Acetone	**34**	**H**	27	4.5	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Benzene	ND	H	5.3	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromoform	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromomethane	ND	H	5.3	0.48	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Carbon disulfide	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Carbon tetrachloride	ND	H	5.3	0.52	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chlorobenzene	ND	H	5.3	0.70	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Dibromochloromethane	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloroethane	ND	H	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloroform	**0.69**	**J H**	5.3	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloromethane	ND	H	5.3	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
cis-1,2-Dichloroethene	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1

Client Sample ID: PDI-106-SO-16-06132018

Date Collected: 06/13/18 09:10
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-3

Matrix: Solid
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND	H	5.3	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromodichloromethane	ND	H	5.3	0.71	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Dichlorodifluoromethane	ND	H	5.3	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Ethylbenzene	ND	H	5.3	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dibromoethane	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Isopropylbenzene	ND	H	5.3	0.80	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methyl acetate	ND	H	27	3.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methyl tert-butyl ether	ND	H	5.3	0.52	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methylcyclohexane	ND	H	5.3	0.81	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methylene Chloride	ND	H	5.3	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Tetrachloroethene	ND	H	5.3	0.71	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Toluene	ND	H	5.3	0.40	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
trans-1,2-Dichloroethene	ND	H	5.3	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
trans-1,3-Dichloropropene	ND	H	5.3	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Trichloroethene	**1.3**	**J H**	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Trichlorofluoromethane	**1.9**	**J H**	5.3	0.50	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Vinyl chloride	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Xylenes, Total	ND	H	11	0.89	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
cis-1,3-Dichloropropene	ND	H	5.3	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Styrene	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
Toluene-d8 (Surr)	*105*		*71 - 125*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/15/18 11:00*	*06/16/18 14:03*	*1*

Client Sample ID: PDI-7-SO-17-06132018

Date Collected: 06/13/18 09:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-4

Matrix: Solid
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H F1 F2	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2,2-Tetrachloroethane	ND	H F2	750	120	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2-Trichloroethane	ND	H F1	750	160	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1-Dichloroethane	ND	H F2 F1	750	230	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1-Dichloroethene	ND	H	750	260	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2,4-Trichlorobenzene	ND	H F2 F1	750	280	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dibromo-3-Chloropropane	ND	H F2	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichlorobenzene	**860**	**H F1 F2**	750	190	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichloroethane	ND	H F1	750	310	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichloropropane	ND	H F1 F2	750	120	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,3-Dichlorobenzene	ND	H F1 F2	750	200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,4-Dichlorobenzene	ND	H F1 F2	750	110	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
2-Butanone (MEK)	ND	H F1	3800	2200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
2-Hexanone	ND	H F1 F2	3800	1500	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
4-Methyl-2-pentanone (MIBK)	ND	H F1	3800	240	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Acetone	ND	H F1	3800	3100	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10

Client Sample ID: PDI-7-SO-17-06132018

Date Collected: 06/13/18 09:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-4

Matrix: Solid
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H F2	750	140	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromoform	ND	H	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromomethane	ND	H	750	170	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Carbon disulfide	ND	H F2	750	340	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Carbon tetrachloride	ND	H F2	750	190	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chlorobenzene	ND	H F2 F1	750	99	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Dibromochloromethane	ND	H F2	750	360	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloroethane	ND	H F2	750	160	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloroform	ND	H F2 F1	750	520	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloromethane	ND	H F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
cis-1,2-Dichloroethene	**1000**	**H F1 F2**	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Cyclohexane	ND	H	750	170	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromodichloromethane	ND	H F1 F2	750	150	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Dichlorodifluoromethane	ND	H F2	750	330	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Ethylbenzene	**320**	**J H F1 F2**	750	220	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dibromoethane	ND	H F1	750	130	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Isopropylbenzene	ND	H F2	750	110	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methyl acetate	ND	H F1 F2	3800	360	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methyl tert-butyl ether	ND	H F1 F2	750	280	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methylcyclohexane	ND	H F2	750	350	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methylene Chloride	ND	H	750	150	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Tetrachloroethene	**17000**	**H F2**	750	100	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Toluene	**1300**	**H F1 F2**	750	200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
trans-1,2-Dichloroethene	ND	H	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
trans-1,3-Dichloropropene	ND	H F2	750	74	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Trichloroethene	**42000**	**H F2**	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Trichlorofluoromethane	ND	H F2	750	350	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Vinyl chloride	ND	H F2	750	250	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Xylenes, Total	**2000**	**H F1 F2**	1500	420	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
cis-1,3-Dichloropropene	ND	H F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Styrene	ND	H F1 F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*53 - 146*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
4-Bromofluorobenzene (Surr)	*106*		*49 - 148*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
Toluene-d8 (Surr)	*100*		*50 - 149*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/16/18 12:07*	*06/18/18 15:39*	*10*

Client Sample ID: PDI-8-SO-17-061318

Date Collected: 06/13/18 10:30
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-5

Matrix: Solid
Percent Solids: 76.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.8	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2,2-Tetrachloroethane	ND	H	4.8	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.8	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2-Trichloroethane	ND	H	4.8	0.62	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1-Dichloroethane	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1-Dichloroethene	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1

Client Sample ID: PDI-8-SO-17-061318

Date Collected: 06/13/18 10:30
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-5

Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dibromo-3-Chloropropane	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichlorobenzene	ND	H	4.8	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichloroethane	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichloropropane	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,3-Dichlorobenzene	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,4-Dichlorobenzene	ND	H	4.8	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
2-Butanone (MEK)	ND	H	24	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
2-Hexanone	ND	H	24	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
4-Methyl-2-pentanone (MIBK)	ND	H	24	1.6	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Acetone	**8.1**	**J H**	24	4.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Benzene	ND	H	4.8	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromoform	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromomethane	ND	H	4.8	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Carbon disulfide	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Carbon tetrachloride	ND	H	4.8	0.46	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chlorobenzene	ND	H	4.8	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Dibromochloromethane	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloroethane	ND	H	4.8	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloroform	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloromethane	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
cis-1,2-Dichloroethene	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Cyclohexane	ND	H	4.8	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromodichloromethane	ND	H	4.8	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Dichlorodifluoromethane	ND	H	4.8	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Ethylbenzene	ND	H	4.8	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dibromoethane	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Isopropylbenzene	ND	H	4.8	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methyl acetate	ND	H	24	2.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methyl tert-butyl ether	ND	H	4.8	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methylcyclohexane	ND	H	4.8	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methylene Chloride	ND	H	4.8	2.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Tetrachloroethene	ND	H	4.8	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Toluene	ND	H	4.8	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
trans-1,2-Dichloroethene	ND	H	4.8	0.49	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
trans-1,3-Dichloropropene	ND	H	4.8	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Trichloroethene	ND	H	4.8	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Trichlorofluoromethane	ND	H	4.8	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Vinyl chloride	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Xylenes, Total	ND	H	9.5	0.80	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
cis-1,3-Dichloropropene	ND	H	4.8	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Styrene	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*06/15/18 11:00*	*06/16/18 14:29*	*1*

Client Sample ID: PDI-9-SO-17-061318

Date Collected: 06/13/18 11:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-6

Matrix: Solid
Percent Solids: 77.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.74	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Acetone	**17**	**J**	23	3.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Benzene	ND		4.6	0.22	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromodichloromethane	ND		4.6	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Toluene	ND		4.6	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Styrene	ND		4.6	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1

Client Sample ID: PDI-9-SO-17-061318
Date Collected: 06/13/18 11:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-6
Matrix: Solid
Percent Solids: 77.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	06/15/18 11:00	06/16/18 14:55	1
4-Bromofluorobenzene (Surr)	93		72 - 126	06/15/18 11:00	06/16/18 14:55	1
Toluene-d8 (Surr)	98		71 - 125	06/15/18 11:00	06/16/18 14:55	1
Dibromofluoromethane (Surr)	99		60 - 140	06/15/18 11:00	06/16/18 14:55	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-137530-1	PDI-6-SO-14-06132018	106	95	99	101
480-137530-2	PDI-6-SO-16-06132018	103	81	108	101
480-137530-3	PDI-106-SO-16-06132018	105	82	105	101
480-137530-5	PDI-8-SO-17-061318	106	95	98	100
480-137530-6	PDI-9-SO-17-061318	104	93	98	99
LCS 480-419967/16-A	Lab Control Sample	96	98	101	99
MB 480-419967/2-A	Method Blank	102	94	98	99

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-137530-4	PDI-7-SO-17-06132018	109	106	100	101
480-137530-4 MS	PDI-7-SO-17-06132018	108	105	96	103
480-137530-4 MSD	PDI-7-SO-17-06132018	109	103	97	102
LCS 480-420017/1-A	Lab Control Sample	102	100	96	99
MB 480-420017/2-A	Method Blank	107	105	97	102

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-419967/2-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
2-Hexanone	ND		25	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Acetone	ND		25	4.2	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Benzene	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromoform	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloroform	ND		5.0	0.31	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methyl acetate	ND		25	3.0	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Toluene	ND		5.0	0.38	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Styrene	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*06/16/18 06:36*	*06/16/18 10:52*	*1*

Lab Sample ID: LCS 480-419967/16-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.2		ug/Kg		80	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.4		ug/Kg		85	60 - 140
1,1,2-Trichloroethane	50.0	43.9		ug/Kg		88	78 - 122
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	73 - 126
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	59 - 125
1,2,4-Trichlorobenzene	50.0	42.6		ug/Kg		85	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/Kg		93	63 - 124
1,2-Dichlorobenzene	50.0	43.2		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	41.0		ug/Kg		82	77 - 122
1,2-Dichloropropane	50.0	43.3		ug/Kg		87	75 - 124
1,3-Dichlorobenzene	50.0	45.0		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	280		ug/Kg		112	70 - 134
2-Hexanone	250	264		ug/Kg		106	59 - 130
4-Methyl-2-pentanone (MIBK)	250	251		ug/Kg		100	65 - 133
Acetone	250	265		ug/Kg		106	61 - 137
Benzene	50.0	45.1		ug/Kg		90	79 - 127
Bromoform	50.0	43.8		ug/Kg		88	68 - 126
Bromomethane	50.0	44.6		ug/Kg		89	37 - 149
Carbon disulfide	50.0	43.4		ug/Kg		87	64 - 131
Carbon tetrachloride	50.0	39.7		ug/Kg		79	75 - 135
Chlorobenzene	50.0	44.4		ug/Kg		89	76 - 124
Dibromochloromethane	50.0	43.2		ug/Kg		86	76 - 125
Chloroethane	50.0	45.4		ug/Kg		91	69 - 135
Chloroform	50.0	42.9		ug/Kg		86	80 - 120
Chloromethane	50.0	42.6		ug/Kg		85	63 - 127
cis-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	81 - 120
Cyclohexane	50.0	42.4		ug/Kg		85	65 - 120
Bromodichloromethane	50.0	42.7		ug/Kg		85	80 - 122
Dichlorodifluoromethane	50.0	41.8		ug/Kg		84	57 - 142
Ethylbenzene	50.0	44.8		ug/Kg		90	80 - 120
1,2-Dibromoethane	50.0	44.2		ug/Kg		88	78 - 120
Isopropylbenzene	50.0	45.2		ug/Kg		90	72 - 120
Methyl acetate	100	113		ug/Kg		113	55 - 136
Methyl tert-butyl ether	50.0	40.5		ug/Kg		81	63 - 125
Methylcyclohexane	50.0	43.1		ug/Kg		86	60 - 140
Methylene Chloride	50.0	46.0		ug/Kg		92	61 - 127
Tetrachloroethene	50.0	43.8		ug/Kg		88	74 - 122
Toluene	50.0	45.3		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	44.4		ug/Kg		89	78 - 126
trans-1,3-Dichloropropene	50.0	42.4		ug/Kg		85	73 - 123
Trichloroethene	50.0	43.7		ug/Kg		87	77 - 129

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

Lab Sample ID: LCS 480-419967/16-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	65 - 146
Vinyl chloride	50.0	46.1		ug/Kg		92	61 - 133
cis-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	80 - 120
Styrene	50.0	44.3		ug/Kg		89	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 480-420017/2-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1-Dichloroethane	ND		100	31	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1-Dichloroethene	ND		100	35	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichloroethane	ND		100	41	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichloropropane	ND		100	16	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
2-Butanone (MEK)	ND		500	300	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
2-Hexanone	ND		500	210	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Acetone	ND		500	410	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Benzene	ND		100	19	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromoform	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromomethane	ND		100	22	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Carbon disulfide	ND		100	46	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Carbon tetrachloride	ND		100	26	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chlorobenzene	ND		100	13	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Dibromochloromethane	ND		100	48	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloroethane	ND		100	21	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloroform	ND		100	69	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloromethane	76.1	J	100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Cyclohexane	ND		100	22	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromodichloromethane	ND		100	20	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Ethylbenzene	ND		100	29	ug/Kg		06/16/18 12:07	06/18/18 10:35	1

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

Lab Sample ID: MB 480-420017/2-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		100	18	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Isopropylbenzene	ND		100	15	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methyl acetate	ND		500	48	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methylcyclohexane	ND		100	47	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methylene Chloride	ND		100	20	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Tetrachloroethene	ND		100	13	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Toluene	ND		100	27	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Trichloroethene	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Trichlorofluoromethane	ND		100	47	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Vinyl chloride	61.6	J	100	34	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Xylenes, Total	ND		200	55	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Styrene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*53 - 146*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
Toluene-d8 (Surr)	*97*		*50 - 149*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*06/16/18 12:07*	*06/18/18 10:35*	*1*

Lab Sample ID: LCS 480-420017/1-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2510		ug/Kg		100	68 - 130
1,1,2,2-Tetrachloroethane	2500	2240		ug/Kg		89	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2690		ug/Kg		108	10 - 179
1,1,2-Trichloroethane	2500	2310		ug/Kg		92	80 - 120
1,1-Dichloroethane	2500	2510		ug/Kg		100	78 - 121
1,1-Dichloroethene	2500	2360		ug/Kg		94	48 - 133
1,2,4-Trichlorobenzene	2500	2720		ug/Kg		109	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2440		ug/Kg		98	56 - 122
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	78 - 125
1,2-Dichloroethane	2500	2460		ug/Kg		98	74 - 127
1,2-Dichloropropane	2500	2390		ug/Kg		96	80 - 120
1,3-Dichlorobenzene	2500	2440		ug/Kg		98	80 - 120
1,4-Dichlorobenzene	2500	2450		ug/Kg		98	80 - 120
2-Butanone (MEK)	12500	9670		ug/Kg		77	54 - 149
2-Hexanone	12500	11800		ug/Kg		95	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	11900		ug/Kg		95	74 - 120
Acetone	12500	11700		ug/Kg		94	47 - 141
Benzene	2500	2400		ug/Kg		96	77 - 125
Bromoform	2500	2360		ug/Kg		95	48 - 125

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

Lab Sample ID: LCS 480-420017/1-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	2500	2280		ug/Kg		91	39 - 149
Carbon disulfide	2500	2350		ug/Kg		94	40 - 136
Carbon tetrachloride	2500	2690		ug/Kg		108	54 - 135
Chlorobenzene	2500	2420		ug/Kg		97	76 - 126
Dibromochloromethane	2500	2380		ug/Kg		95	64 - 120
Chloroethane	2500	2560		ug/Kg		103	23 - 150
Chloroform	2500	2450		ug/Kg		98	78 - 120
Chloromethane	2500	2500		ug/Kg		100	61 - 124
cis-1,2-Dichloroethene	2500	2420		ug/Kg		97	79 - 124
Cyclohexane	2500	2790		ug/Kg		111	49 - 129
Bromodichloromethane	2500	2440		ug/Kg		97	71 - 121
Dichlorodifluoromethane	2500	2460		ug/Kg		98	10 - 150
Ethylbenzene	2500	2440		ug/Kg		98	78 - 124
1,2-Dibromoethane	2500	2370		ug/Kg		95	80 - 120
Isopropylbenzene	2500	2420		ug/Kg		97	76 - 120
Methyl acetate	5000	5350		ug/Kg		107	71 - 123
Methyl tert-butyl ether	2500	2400		ug/Kg		96	67 - 137
Methylcyclohexane	2500	2710		ug/Kg		108	50 - 130
Methylene Chloride	2500	2340		ug/Kg		94	75 - 118
Tetrachloroethene	2500	2550		ug/Kg		102	73 - 133
Toluene	2500	2380		ug/Kg		95	75 - 124
trans-1,2-Dichloroethene	2500	2340		ug/Kg		94	74 - 129
trans-1,3-Dichloropropene	2500	2410		ug/Kg		96	73 - 120
Trichloroethene	2500	2510		ug/Kg		100	75 - 131
Trichlorofluoromethane	2500	2550		ug/Kg		102	29 - 158
Vinyl chloride	2500	2510		ug/Kg		100	59 - 124
cis-1,3-Dichloropropene	2500	2410		ug/Kg		96	75 - 121
Styrene	2500	2490		ug/Kg		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*53 - 146*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*
Toluene-d8 (Surr)	*96*		*50 - 149*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: 480-137530-4 MS
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	H F1 F2	3960	5700	H F1	ug/Kg	☼	144	64 - 142
1,1,2,2-Tetrachloroethane	ND	H F2	3960	4650	H	ug/Kg	☼	117	56 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	3960	4370	H	ug/Kg	☼	110	64 - 154
1,1,2-Trichloroethane	ND	H F1	3960	5370	H F1	ug/Kg	☼	136	63 - 133
1,1-Dichloroethane	ND	H F2 F1	3960	5070	H	ug/Kg	☼	128	64 - 135
1,1-Dichloroethene	ND	H	3960	3770	H	ug/Kg	☼	95	62 - 145
1,2,4-Trichlorobenzene	ND	H F2 F1	3960	5730	H	ug/Kg	☼	145	56 - 145

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

Lab Sample ID: 480-137530-4 MS
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND	H F2	3960	4780	H	ug/Kg	☼	121	40 - 122
1,2-Dichlorobenzene	860	H F1 F2	3960	7130	H F1	ug/Kg	☼	158	68 - 133
1,2-Dichloroethane	ND	H F1	3960	5700	H F1	ug/Kg	☼	144	62 - 135
1,2-Dichloropropane	ND	H F1 F2	3960	5660	H F1	ug/Kg	☼	143	67 - 139
1,3-Dichlorobenzene	ND	H F1 F2	3960	5860	H F1	ug/Kg	☼	148	68 - 136
1,4-Dichlorobenzene	ND	H F1 F2	3960	5880	H F1	ug/Kg	☼	148	69 - 136
2-Butanone (MEK)	ND	H F1	19800	37300	H F1	ug/Kg	☼	188	46 - 132
2-Hexanone	ND	H F1 F2	19800	37900	H F1	ug/Kg	☼	192	44 - 130
4-Methyl-2-pentanone (MIBK)	ND	H F1	19800	30200	H F1	ug/Kg	☼	153	49 - 125
Acetone	ND	H F1	19800	50200	H F1	ug/Kg	☼	254	32 - 136
Benzene	ND	H F2	3960	5260	H	ug/Kg	☼	133	68 - 137
Bromoform	ND	H	3960	3690	H	ug/Kg	☼	93	43 - 134
Bromomethane	ND	H	3960	4100	H	ug/Kg	☼	103	38 - 137
Carbon disulfide	ND	H F2	3960	3950	H	ug/Kg	☼	100	52 - 139
Carbon tetrachloride	ND	H F2	3960	5160	H	ug/Kg	☼	130	60 - 150
Chlorobenzene	ND	H F2 F1	3960	5380	H	ug/Kg	☼	136	67 - 136
Dibromochloromethane	ND	H F2	3960	4850	H	ug/Kg	☼	123	57 - 137
Chloroethane	ND	H F2	3960	5170	H	ug/Kg	☼	131	34 - 140
Chloroform	ND	H F2 F1	3960	5230	H	ug/Kg	☼	132	64 - 133
Chloromethane	ND	H F2	3960	4510	H	ug/Kg	☼	114	47 - 143
cis-1,2-Dichloroethene	1000	H F1 F2	3960	6640	H F1	ug/Kg	☼	142	65 - 137
Cyclohexane	ND	H	3960	4640	H	ug/Kg	☼	117	63 - 149
Bromodichloromethane	ND	H F1 F2	3960	5540	H F1	ug/Kg	☼	140	62 - 136
Dichlorodifluoromethane	ND	H F2	3960	4220	H	ug/Kg	☼	107	26 - 150
Ethylbenzene	320	J H F1 F2	3960	6070	H F1	ug/Kg	☼	145	67 - 136
1,2-Dibromoethane	ND	H F1	3960	5390	H F1	ug/Kg	☼	136	65 - 133
Isopropylbenzene	ND	H F2	3960	5550	H	ug/Kg	☼	140	65 - 147
Methyl acetate	ND	H F1 F2	7920	12000	H F1	ug/Kg	☼	151	50 - 124
Methyl tert-butyl ether	ND	H F1 F2	3960	5300	H F1	ug/Kg	☼	134	60 - 130
Methylcyclohexane	ND	H F2	3960	4700	H	ug/Kg	☼	119	67 - 150
Methylene Chloride	ND	H	3960	4100	H	ug/Kg	☼	104	63 - 138
Tetrachloroethene	17000	H F2	3960	36400	H 4	ug/Kg	☼	483	67 - 150
Toluene	1300	H F1 F2	3960	7730	H F1	ug/Kg	☼	162	68 - 137
trans-1,2-Dichloroethene	ND	H	3960	4360	H	ug/Kg	☼	110	65 - 138
trans-1,3-Dichloropropene	ND	H F2	3960	4960	H	ug/Kg	☼	125	58 - 143
Trichloroethene	42000	H F2	3960	85900	H 4	ug/Kg	☼	1097	69 - 143
Trichlorofluoromethane	ND	H F2	3960	5240	H	ug/Kg	☼	132	35 - 150
Vinyl chloride	ND	H F2	3960	4250	H	ug/Kg	☼	107	56 - 150
cis-1,3-Dichloropropene	ND	H F2	3960	4860	H	ug/Kg	☼	123	61 - 148
Styrene	ND	H F1 F2	3960	5690	H F1	ug/Kg	☼	144	68 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*
Toluene-d8 (Surr)	*96*		*50 - 149*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

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

Lab Sample ID: 480-137530-4 MSD
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	H F1 F2	2950	4560	H F1 F4	ug/Kg	☼	155	64 - 142	22	20
1,1,2,2-Tetrachloroethane	ND	H F2	2950	3750	H F4	ug/Kg	☼	127	56 - 128	21	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	2950	3720	H	ug/Kg	☼	126	64 - 154	16	20
1,1,2-Trichloroethane	ND	H F1	2950	4660	H F1	ug/Kg	☼	158	63 - 133	14	20
1,1-Dichloroethane	ND	H F2 F1	2950	4080	H F1 F4	ug/Kg	☼	138	64 - 135	22	20
1,1-Dichloroethene	ND	H	2950	3220	H	ug/Kg	☼	109	62 - 145	16	20
1,2,4-Trichlorobenzene	ND	H F2 F1	2950	4470	H F1 F4	ug/Kg	☼	152	56 - 145	25	20
1,2-Dibromo-3-Chloropropane	ND	H F2	2950	3280	H F4	ug/Kg	☼	111	40 - 122	37	20
1,2-Dichlorobenzene	860	H F1 F2	2950	5550	H F1 F4	ug/Kg	☼	159	68 - 133	25	20
1,2-Dichloroethane	ND	H F1	2950	4720	H F1	ug/Kg	☼	160	62 - 135	19	20
1,2-Dichloropropane	ND	H F1 F2	2950	4250	H F1 F4	ug/Kg	☼	144	67 - 139	28	20
1,3-Dichlorobenzene	ND	H F1 F2	2950	4490	H F1 F4	ug/Kg	☼	152	68 - 136	27	20
1,4-Dichlorobenzene	ND	H F1 F2	2950	4460	H F1 F4	ug/Kg	☼	151	69 - 136	27	20
2-Butanone (MEK)	ND	H F1	14700	30600	H F1	ug/Kg	☼	208	46 - 132	20	20
2-Hexanone	ND	H F1 F2	14700	30100	H F1 F4	ug/Kg	☼	204	44 - 130	23	20
4-Methyl-2-pentanone (MIBK)	ND	H F1	14700	25100	H F1	ug/Kg	☼	170	49 - 125	19	20
Acetone	ND	H F1	14700	40900	H F1	ug/Kg	☼	278	32 - 136	20	20
Benzene	ND	H F2	2950	3930	H F4	ug/Kg	☼	133	68 - 137	29	20
Bromoform	ND	H	2950	3020	H	ug/Kg	☼	103	43 - 134	20	20
Bromomethane	ND	H	2950	3390	H	ug/Kg	☼	115	38 - 137	19	20
Carbon disulfide	ND	H F2	2950	3190	H F4	ug/Kg	☼	108	52 - 139	22	20
Carbon tetrachloride	ND	H F2	2950	4160	H F4	ug/Kg	☼	141	60 - 150	21	20
Chlorobenzene	ND	H F2 F1	2950	4210	H F1 F4	ug/Kg	☼	143	67 - 136	25	20
Dibromochloromethane	ND	H F2	2950	3510	H F4	ug/Kg	☼	119	57 - 137	32	20
Chloroethane	ND	H F2	2950	3950	H F4	ug/Kg	☼	134	34 - 140	27	20
Chloroform	ND	H F2 F1	2950	4260	H F1 F4	ug/Kg	☼	144	64 - 133	21	20
Chloromethane	ND	H F2	2950	3550	H F4	ug/Kg	☼	120	47 - 143	24	20
cis-1,2-Dichloroethene	1000	H F1 F2	2950	5190	H F1 F4	ug/Kg	☼	142	65 - 137	24	20
Cyclohexane	ND	H	2950	4350	H	ug/Kg	☼	147	63 - 149	7	20
Bromodichloromethane	ND	H F1 F2	2950	4210	H F1 F4	ug/Kg	☼	143	62 - 136	27	20
Dichlorodifluoromethane	ND	H F2	2950	3270	H F4	ug/Kg	☼	111	26 - 150	25	20
Ethylbenzene	320	J H F1 F2	2950	4630	H F1 F4	ug/Kg	☼	146	67 - 136	27	20
1,2-Dibromoethane	ND	H F1	2950	4460	H F1	ug/Kg	☼	151	65 - 133	19	20
Isopropylbenzene	ND	H F2	2950	4350	H F4	ug/Kg	☼	147	65 - 147	24	20
Methyl acetate	ND	H F1 F2	5900	9070	H F1 F4	ug/Kg	☼	154	50 - 124	27	20
Methyl tert-butyl ether	ND	H F1 F2	2950	4110	H F1 F4	ug/Kg	☼	139	60 - 130	25	20
Methylcyclohexane	ND	H F2	2950	3800	H F4	ug/Kg	☼	129	67 - 150	21	20
Methylene Chloride	ND	H	2950	3670	H	ug/Kg	☼	125	63 - 138	11	20
Tetrachloroethene	17000	H F2	2950	28000	H 4 F4	ug/Kg	☼	365	67 - 150	26	20
Toluene	1300	H F1 F2	2950	6000	H F1 F4	ug/Kg	☼	159	68 - 137	25	20
trans-1,2-Dichloroethene	ND	H	2950	3700	H	ug/Kg	☼	125	65 - 138	16	20
trans-1,3-Dichloropropene	ND	H F2	2950	3820	H F4	ug/Kg	☼	130	58 - 143	26	20
Trichloroethene	42000	H F2	2950	66900	H 4 F4	ug/Kg	☼	831	69 - 143	25	20
Trichlorofluoromethane	ND	H F2	2950	4030	H F4	ug/Kg	☼	137	35 - 150	26	20
Vinyl chloride	ND	H F2	2950	3450	H F4	ug/Kg	☼	117	56 - 150	21	20
cis-1,3-Dichloropropene	ND	H F2	2950	3770	H F4	ug/Kg	☼	128	61 - 148	25	20
Styrene	ND	H F1 F2	2950	4470	H F1 F4	ug/Kg	☼	151	68 - 137	24	20

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

Lab Sample ID: 480-137530-4 MSD
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		53 - 146
4-Bromofluorobenzene (Surr)	103		49 - 148
Toluene-d8 (Surr)	97		50 - 149
Dibromofluoromethane (Surr)	102		60 - 140

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

GC/MS VOA

Prep Batch: 419967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	5035A_L	
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	5035A_L	
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	5035A_L	
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	5035A_L	
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	5035A_L	
MB 480-419967/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-419967/16-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 419970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	8260C	419967
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	8260C	419967
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	8260C	419967
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	8260C	419967
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	8260C	419967
MB 480-419967/2-A	Method Blank	Total/NA	Solid	8260C	419967
LCS 480-419967/16-A	Lab Control Sample	Total/NA	Solid	8260C	419967

Prep Batch: 420017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	
MB 480-420017/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-420017/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	

Analysis Batch: 420097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017
MB 480-420017/2-A	Method Blank	Total/NA	Solid	8260C	420017
LCS 480-420017/1-A	Lab Control Sample	Total/NA	Solid	8260C	420017

Analysis Batch: 420526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017

General Chemistry

Analysis Batch: 420188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	Moisture	
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	Moisture	
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	Moisture	
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	Moisture	
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	Moisture	
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-6-SO-14-06132018
Lab Sample ID: 480-137530-1
Date Collected: 06/13/18 09:00
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-6-SO-14-06132018
Lab Sample ID: 480-137530-1
Date Collected: 06/13/18 09:00
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 13:12	AMM	TAL BUF

Client Sample ID: PDI-6-SO-16-06132018
Lab Sample ID: 480-137530-2
Date Collected: 06/13/18 09:05
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-6-SO-16-06132018
Lab Sample ID: 480-137530-2
Date Collected: 06/13/18 09:05
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 13:38	AMM	TAL BUF

Client Sample ID: PDI-106-SO-16-06132018
Lab Sample ID: 480-137530-3
Date Collected: 06/13/18 09:10
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-106-SO-16-06132018
Lab Sample ID: 480-137530-3
Date Collected: 06/13/18 09:10
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:03	AMM	TAL BUF

Client Sample ID: PDI-7-SO-17-06132018
Lab Sample ID: 480-137530-4
Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-7-SO-17-06132018
Lab Sample ID: 480-137530-4
Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			420017	06/16/18 12:07	AMM	TAL BUF
Total/NA	Analysis	8260C		10	420097	06/18/18 15:39	AEM	TAL BUF

Client Sample ID: PDI-8-SO-17-061318
Lab Sample ID: 480-137530-5
Date Collected: 06/13/18 10:30
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-8-SO-17-061318
Lab Sample ID: 480-137530-5
Date Collected: 06/13/18 10:30
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:29	AMM	TAL BUF

Client Sample ID: PDI-9-SO-17-061318
Lab Sample ID: 480-137530-6
Date Collected: 06/13/18 11:40
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-9-SO-17-061318
Lab Sample ID: 480-137530-6
Date Collected: 06/13/18 11:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:55	AMM	TAL BUF

Laboratory References:
TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 480-137530-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-6-SO-14-06132018	480-137530-1	101	106	99	95
PDI-6-SO-16-06132018	480-137530-2	101	103	108	81
PDI-106-SO-16-06132018	480-137530-3	101	105	105	82
PDI-8-SO-17-061318	480-137530-5	100	106	98	95
PDI-9-SO-17-061318	480-137530-6	99	104	98	93
	MB 480-419967/2-A	99	102	98	94
	LCS 480-419967/16-A	99	96	101	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-7-SO-17-06132018	480-137530-4	101	109	100	106
	MB 480-420017/2-A	102	107	97	105
	LCS 480-420017/1-A	99	102	96	100
PDI-7-SO-17-06132018 MS	480-137530-4 MS	103	108	96	105
PDI-7-SO-17-06132018 MSD	480-137530-4 MSD	102	109	97	103

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	53-146
TOL = Toluene-d8 (Surr)	50-149
BFB = 4-Bromofluorobenzene (Surr)	49-148

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F2859.D

Lab ID: LCS 480-419967/16-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	40.2	80	77-121	
1,1,2,2-Tetrachloroethane	50.0	46.4	93	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.4	85	60-140	
1,1,2-Trichloroethane	50.0	43.9	88	78-122	
1,1-Dichloroethane	50.0	44.2	88	73-126	
1,1-Dichloroethene	50.0	44.0	88	59-125	
1,2,4-Trichlorobenzene	50.0	42.6	85	64-120	
1,2-Dibromo-3-Chloropropane	50.0	46.5	93	63-124	
1,2-Dichlorobenzene	50.0	43.2	86	75-120	
1,2-Dichloroethane	50.0	41.0	82	77-122	
1,2-Dichloropropane	50.0	43.3	87	75-124	
1,3-Dichlorobenzene	50.0	45.0	90	74-120	
1,4-Dichlorobenzene	50.0	44.5	89	73-120	
2-Butanone (MEK)	250	280	112	70-134	
2-Hexanone	250	264	106	59-130	
4-Methyl-2-pentanone (MIBK)	250	251	100	65-133	
Acetone	250	265	106	61-137	
Benzene	50.0	45.1	90	79-127	
Bromoform	50.0	43.8	88	68-126	
Bromomethane	50.0	44.6	89	37-149	
Carbon disulfide	50.0	43.4	87	64-131	
Carbon tetrachloride	50.0	39.7	79	75-135	
Chlorobenzene	50.0	44.4	89	76-124	
Dibromochloromethane	50.0	43.2	86	76-125	
Chloroethane	50.0	45.4	91	69-135	
Chloroform	50.0	42.9	86	80-120	
Chloromethane	50.0	42.6	85	63-127	
cis-1,2-Dichloroethene	50.0	44.2	88	81-120	
Cyclohexane	50.0	42.4	85	65-120	
Bromodichloromethane	50.0	42.7	85	80-122	
Dichlorodifluoromethane	50.0	41.8	84	57-142	
Ethylbenzene	50.0	44.8	90	80-120	
1,2-Dibromoethane	50.0	44.2	88	78-120	
Isopropylbenzene	50.0	45.2	90	72-120	
Methyl acetate	100	113	113	55-136	
Methyl tert-butyl ether	50.0	40.5	81	63-125	
Methylcyclohexane	50.0	43.1	86	60-140	
Methylene Chloride	50.0	46.0	92	61-127	
Tetrachloroethene	50.0	43.8	88	74-122	
Toluene	50.0	45.3	91	74-128	
trans-1,2-Dichloroethene	50.0	44.4	89	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F2859.D

Lab ID: LCS 480-419967/16-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	42.4	85	73-123	
Trichloroethene	50.0	43.7	87	77-129	
Trichlorofluoromethane	50.0	44.7	89	65-146	
Vinyl chloride	50.0	46.1	92	61-133	
cis-1,3-Dichloropropene	50.0	42.6	85	80-120	
Styrene	50.0	44.3	89	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0664.D

Lab ID: LCS 480-420017/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	2500	2510	100	68-130	
1,1,2,2-Tetrachloroethane	2500	2240	89	73-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2690	108	10-179	
1,1,2-Trichloroethane	2500	2310	92	80-120	
1,1-Dichloroethane	2500	2510	100	78-121	
1,1-Dichloroethene	2500	2360	94	48-133	
1,2,4-Trichlorobenzene	2500	2720	109	70-140	
1,2-Dibromo-3-Chloropropane	2500	2440	98	56-122	
1,2-Dichlorobenzene	2500	2470	99	78-125	
1,2-Dichloroethane	2500	2460	98	74-127	
1,2-Dichloropropane	2500	2390	96	80-120	
1,3-Dichlorobenzene	2500	2440	98	80-120	
1,4-Dichlorobenzene	2500	2450	98	80-120	
2-Butanone (MEK)	12500	9670	77	54-149	
2-Hexanone	12500	11800	95	59-127	
4-Methyl-2-pentanone (MIBK)	12500	11900	95	74-120	
Acetone	12500	11700	94	47-141	
Benzene	2500	2400	96	77-125	
Bromoform	2500	2360	95	48-125	
Bromomethane	2500	2280	91	39-149	
Carbon disulfide	2500	2350	94	40-136	
Carbon tetrachloride	2500	2690	108	54-135	
Chlorobenzene	2500	2420	97	76-126	
Dibromochloromethane	2500	2380	95	64-120	
Chloroethane	2500	2560	103	23-150	
Chloroform	2500	2450	98	78-120	
Chloromethane	2500	2500	100	61-124	
cis-1,2-Dichloroethene	2500	2420	97	79-124	
Cyclohexane	2500	2790	111	49-129	
Bromodichloromethane	2500	2440	97	71-121	
Dichlorodifluoromethane	2500	2460	98	10-150	
Ethylbenzene	2500	2440	98	78-124	
1,2-Dibromoethane	2500	2370	95	80-120	
Isopropylbenzene	2500	2420	97	76-120	
Methyl acetate	5000	5350	107	71-123	
Methyl tert-butyl ether	2500	2400	96	67-137	
Methylcyclohexane	2500	2710	108	50-130	
Methylene Chloride	2500	2340	94	75-118	
Tetrachloroethene	2500	2550	102	73-133	
Toluene	2500	2380	95	75-124	
trans-1,2-Dichloroethene	2500	2340	94	74-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0664.D

Lab ID: LCS 480-420017/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	2500	2410	96	73-120	
Trichloroethene	2500	2510	100	75-131	
Trichlorofluoromethane	2500	2550	102	29-158	
Vinyl chloride	2500	2510	100	59-124	
cis-1,3-Dichloropropene	2500	2410	96	75-121	
Styrene	2500	2490	99	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0787.D

Lab ID: 480-137530-4 MS Client ID: PDI-7-SO-17-06132018 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	3960	ND	5700	144	64-142	H F1
1,1,2,2-Tetrachloroethane	3960	ND	4650	117	56-128	H
1,1,2-Trichloro-1,2,2-trifluoroethane	3960	ND	4370	110	64-154	H
1,1,2-Trichloroethane	3960	ND	5370	136	63-133	H F1
1,1-Dichloroethane	3960	ND	5070	128	64-135	H
1,1-Dichloroethene	3960	ND	3770	95	62-145	H
1,2,4-Trichlorobenzene	3960	ND	5730	145	56-145	H
1,2-Dibromo-3-Chloropropane	3960	ND	4780	121	40-122	H
1,2-Dichlorobenzene	3960	860	7130	158	68-133	H F1
1,2-Dichloroethane	3960	ND	5700	144	62-135	H F1
1,2-Dichloropropane	3960	ND	5660	143	67-139	H F1
1,3-Dichlorobenzene	3960	ND	5860	148	68-136	H F1
1,4-Dichlorobenzene	3960	ND	5880	148	69-136	H F1
2-Butanone (MEK)	19800	ND	37300	188	46-132	H F1
2-Hexanone	19800	ND	37900	192	44-130	H F1
4-Methyl-2-pentanone (MIBK)	19800	ND	30200	153	49-125	H F1
Acetone	19800	ND	50200	254	32-136	H F1
Benzene	3960	ND	5260	133	68-137	H
Bromoform	3960	ND	3690	93	43-134	H
Bromomethane	3960	ND	4100	103	38-137	H
Carbon disulfide	3960	ND	3950	100	52-139	H
Carbon tetrachloride	3960	ND	5160	130	60-150	H
Chlorobenzene	3960	ND	5380	136	67-136	H
Dibromochloromethane	3960	ND	4850	123	57-137	H
Chloroethane	3960	ND	5170	131	34-140	H
Chloroform	3960	ND	5230	132	64-133	H
Chloromethane	3960	ND	4510	114	47-143	H
cis-1,2-Dichloroethene	3960	1000	6640	142	65-137	H F1
Cyclohexane	3960	ND	4640	117	63-149	H
Bromodichloromethane	3960	ND	5540	140	62-136	H F1
Dichlorodifluoromethane	3960	ND	4220	107	26-150	H
Ethylbenzene	3960	320 J	6070	145	67-136	H F1
1,2-Dibromoethane	3960	ND	5390	136	65-133	H F1
Isopropylbenzene	3960	ND	5550	140	65-147	H
Methyl acetate	7920	ND	12000	151	50-124	H F1
Methyl tert-butyl ether	3960	ND	5300	134	60-130	H F1
Methylcyclohexane	3960	ND	4700	119	67-150	H
Methylene Chloride	3960	ND	4100	104	63-138	H
Tetrachloroethene	3960	17000	36400	483	67-150	H 4
Toluene	3960	1300	7730	162	68-137	H F1
trans-1,2-Dichloroethene	3960	ND	4360	110	65-138	H

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0787.D

Lab ID: 480-137530-4 MS Client ID: PDI-7-SO-17-06132018 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	3960	ND	4960	125	58-143	H
Trichloroethene	3960	42000	85900	1097	69-143	H 4
Trichlorofluoromethane	3960	ND	5240	132	35-150	H
Vinyl chloride	3960	ND	4250	107	56-150	H
cis-1,3-Dichloropropene	3960	ND	4860	123	61-148	H
Styrene	3960	ND	5690	144	68-137	H F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0788.D

Lab ID: 480-137530-4 MSD Client ID: PDI-7-SO-17-06132018 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	2950	4560	155	22	20	64-142	H F1 F4
1,1,2,2-Tetrachloroethane	2950	3750	127	21	20	56-128	H F4
1,1,2-Trichloro-1,2,2-trifluoroethane	2950	3720	126	16	20	64-154	H
1,1,2-Trichloroethane	2950	4660	158	14	20	63-133	H F1
1,1-Dichloroethane	2950	4080	138	22	20	64-135	H F1 F4
1,1-Dichloroethene	2950	3220	109	16	20	62-145	H
1,2,4-Trichlorobenzene	2950	4470	152	25	20	56-145	H F1 F4
1,2-Dibromo-3-Chloropropane	2950	3280	111	37	20	40-122	H F4
1,2-Dichlorobenzene	2950	5550	159	25	20	68-133	H F1 F4
1,2-Dichloroethane	2950	4720	160	19	20	62-135	H F1
1,2-Dichloropropane	2950	4250	144	28	20	67-139	H F1 F4
1,3-Dichlorobenzene	2950	4490	152	27	20	68-136	H F1 F4
1,4-Dichlorobenzene	2950	4460	151	27	20	69-136	H F1 F4
2-Butanone (MEK)	14700	30600	208	20	20	46-132	H F1
2-Hexanone	14700	30100	204	23	20	44-130	H F1 F4
4-Methyl-2-pentanone (MIBK)	14700	25100	170	19	20	49-125	H F1
Acetone	14700	40900	278	20	20	32-136	H F1
Benzene	2950	3930	133	29	20	68-137	H F4
Bromoform	2950	3020	103	20	20	43-134	H
Bromomethane	2950	3390	115	19	20	38-137	H
Carbon disulfide	2950	3190	108	22	20	52-139	H F4
Carbon tetrachloride	2950	4160	141	21	20	60-150	H F4
Chlorobenzene	2950	4210	143	25	20	67-136	H F1 F4
Dibromochloromethane	2950	3510	119	32	20	57-137	H F4
Chloroethane	2950	3950	134	27	20	34-140	H F4
Chloroform	2950	4260	144	21	20	64-133	H F1 F4
Chloromethane	2950	3550	120	24	20	47-143	H F4
cis-1,2-Dichloroethene	2950	5190	142	24	20	65-137	H F1 F4
Cyclohexane	2950	4350	147	7	20	63-149	H
Bromodichloromethane	2950	4210	143	27	20	62-136	H F1 F4
Dichlorodifluoromethane	2950	3270	111	25	20	26-150	H F4

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Matrix: Solid Level: Medium Lab File ID: N0788.D

Lab ID: 480-137530-4 MSD Client ID: PDI-7-SO-17-06132018 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Ethylbenzene	2950	4630	146	27	20	67-136	H F1 F4
1,2-Dibromoethane	2950	4460	151	19	20	65-133	H F1
Isopropylbenzene	2950	4350	147	24	20	65-147	H F4
Methyl acetate	5900	9070	154	27	20	50-124	H F1 F4
Methyl tert-butyl ether	2950	4110	139	25	20	60-130	H F1 F4
Methylcyclohexane	2950	3800	129	21	20	67-150	H F4
Methylene Chloride	2950	3670	125	11	20	63-138	H
Tetrachloroethene	2950	28000	365	26	20	67-150	H 4 F4
Toluene	2950	6000	159	25	20	68-137	H F1 F4
trans-1,2-Dichloroethene	2950	3700	125	16	20	65-138	H
trans-1,3-Dichloropropene	2950	3820	130	26	20	58-143	H F4
Trichloroethene	2950	66900	831	25	20	69-143	H 4 F4
Trichlorofluoromethane	2950	4030	137	26	20	35-150	H F4
Vinyl chloride	2950	3450	117	21	20	56-150	H F4
cis-1,3-Dichloropropene	2950	3770	128	25	20	61-148	H F4
Styrene	2950	4470	151	24	20	68-137	H F1 F4

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: F2861.D Lab Sample ID: MB 480-419967/2-A

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

Instrument ID: HP5973F Date Analyzed: 06/16/2018 10:52

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-419967/16-A	F2859.D	06/16/2018 09:50
PDI-6-SO-14-06132018	480-137530-1	F2866.D	06/16/2018 13:12
PDI-6-SO-16-06132018	480-137530-2	F2867.D	06/16/2018 13:38
PDI-106-SO-16-06132018	480-137530-3	F2868.D	06/16/2018 14:03
PDI-8-SO-17-061318	480-137530-5	F2869.D	06/16/2018 14:29
PDI-9-SO-17-061318	480-137530-6	F2870.D	06/16/2018 14:55

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: N0667.D Lab Sample ID: MB 480-420017/2-A

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

Instrument ID: HP5973N Date Analyzed: 06/18/2018 10:35

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-420017/1-A	N0664.D	06/18/2018 09:14
PDI-7-SO-17-06132018	480-137530-4	N0678.D	06/18/2018 15:39
PDI-7-SO-17-06132018 MS	480-137530-4 MS	N0787.D	06/20/2018 18:50
PDI-7-SO-17-06132018 MSD	480-137530-4 MSD	N0788.D	06/20/2018 19:17

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: F2156.D BFB Injection Date: 05/08/2018

Instrument ID: HP5973F BFB Injection Time: 12:17

Analysis Batch No.: 413081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	84.5	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.1	(98.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-413081/6	F2158.D	05/08/2018	13:08
	IC 480-413081/7	F2159.D	05/08/2018	13:33
	IC 480-413081/8	F2160.D	05/08/2018	13:59
	IC 480-413081/9	F2161.D	05/08/2018	14:25
	ICIS 480-413081/10	F2162.D	05/08/2018	14:50
	IC 480-413081/11	F2163.D	05/08/2018	15:15
	IC 480-413081/12	F2164.D	05/08/2018	15:41

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: F2855.D BFB Injection Date: 06/16/2018

Instrument ID: HP5973F BFB Injection Time: 07:38

Analysis Batch No.: 419970

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	51.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	85.0	
175	5.0 - 9.0 % of mass 174	6.0	(7.1) 1
176	95.0 - 101.0 % of mass 174	83.8	(98.6) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.1) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-419970/3	F2856.D	06/16/2018	08:05
	LCS 480-419967/16-A	F2859.D	06/16/2018	09:50
	MB 480-419967/2-A	F2861.D	06/16/2018	10:52
PDI-6-SO-14-06132018	480-137530-1	F2866.D	06/16/2018	13:12
PDI-6-SO-16-06132018	480-137530-2	F2867.D	06/16/2018	13:38
PDI-106-SO-16-06132018	480-137530-3	F2868.D	06/16/2018	14:03
PDI-8-SO-17-061318	480-137530-5	F2869.D	06/16/2018	14:29
PDI-9-SO-17-061318	480-137530-6	F2870.D	06/16/2018	14:55

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: N0607.D BFB Injection Date: 06/15/2018

Instrument ID: HP5973N BFB Injection Time: 12:58

Analysis Batch No.: 419847

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	28.0	
75	30.0 - 60.0 % of mass 95	52.1	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	90.4	
175	5.0 - 9.0 % of mass 174	7.6	(8.4) 1
176	95.0 - 101.0 % of mass 174	88.3	(97.7) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-419847/7	N0609.D	06/15/2018	13:52
	IC 480-419847/8	N0610.D	06/15/2018	14:19
	IC 480-419847/9	N0611.D	06/15/2018	14:46
	IC 480-419847/10	N0612.D	06/15/2018	15:13
	IC 480-419847/11	N0613.D	06/15/2018	15:40
	ICIS 480-419847/12	N0614.D	06/15/2018	16:07
	IC 480-419847/13	N0615.D	06/15/2018	16:34
	IC 480-419847/14	N0616.D	06/15/2018	17:01

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: N0660.D BFB Injection Date: 06/18/2018

Instrument ID: HP5973N BFB Injection Time: 07:30

Analysis Batch No.: 420097

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	26.6	
75	30.0 - 60.0 % of mass 95	51.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	89.0	
175	5.0 - 9.0 % of mass 174	7.1	(8.0) 1
176	95.0 - 101.0 % of mass 174	84.9	(95.3) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-420097/3	N0661.D	06/18/2018	07:53
	LCS 480-420017/1-A	N0664.D	06/18/2018	09:14
	MB 480-420017/2-A	N0667.D	06/18/2018	10:35
PDI-7-SO-17-06132018	480-137530-4	N0678.D	06/18/2018	15:39

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab File ID: N0763.D BFB Injection Date: 06/20/2018

Instrument ID: HP5973N BFB Injection Time: 07:55

Analysis Batch No.: 420526

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	32.5	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	89.8	
175	5.0 - 9.0 % of mass 174	7.9	(8.8) 1
176	95.0 - 101.0 % of mass 174	89.3	(99.4) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-420526/3	N0764.D	06/20/2018	08:19
PDI-7-SO-17-06132018 MS	480-137530-4 MS	N0787.D	06/20/2018	18:50
PDI-7-SO-17-06132018 MSD	480-137530-4 MSD	N0788.D	06/20/2018	19:17

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Sample No.: ICIS 480-413081/10 Date Analyzed: 05/08/2018 14:50

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F2162.D Heated Purge: (Y/N) Y

Calibration ID: 33794

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		317300	5.19	641190	7.99	635410	10.36
UPPER LIMIT		634600	5.69	1282380	8.49	1270820	10.86
LOWER LIMIT		158650	4.69	320595	7.49	317705	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-419970/3		293962	5.19	600571	7.99	578723	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Sample No.: CCVIS 480-419970/3 Date Analyzed: 06/16/2018 08:05

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F2856.D Heated Purge: (Y/N) Y

Calibration ID: 33797

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		293962	5.19	600571	7.99	578723	10.36
UPPER LIMIT		587924	5.69	1201142	8.49	1157446	10.86
LOWER LIMIT		146981	4.69	300286	7.49	289362	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-419967/16-A		282984	5.19	575282	7.99	549105	10.36
MB 480-419967/2-A		276709	5.20	595571	7.99	534187	10.36
480-137530-1	PDI-6-SO-14-06132018	265502	5.20	558306	7.99	507294	10.36
480-137530-2	PDI-6-SO-16-06132018	254385	5.20	484227	7.99	291961	10.36
480-137530-3	PDI-106-SO-16-06132018	248235	5.19	487335	7.99	304285	10.36
480-137530-5	PDI-8-SO-17-061318	253861	5.20	536650	7.99	486806	10.36
480-137530-6	PDI-9-SO-17-061318	241604	5.19	510989	7.99	458320	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Sample No.: ICIS 480-419847/12 Date Analyzed: 06/15/2018 16:07

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N0614.D Heated Purge: (Y/N) N

Calibration ID: 34080

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		209234	5.36	783991	8.34	399830	10.74
UPPER LIMIT		418468	5.86	1567982	8.84	799660	11.24
LOWER LIMIT		104617	4.86	391996	7.84	199915	10.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-420097/3		230433	5.36	914925	8.34	462007	10.74
CCVIS 480-420526/3		213014	5.36	803514	8.34	411367	10.74

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Sample No.: CCVIS 480-420097/3 Date Analyzed: 06/18/2018 07:53

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N0661.D Heated Purge: (Y/N) N

Calibration ID: 34082

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		230433	5.36	914925	8.34	462007	10.74
UPPER LIMIT		460866	5.86	1829850	8.84	924014	11.24
LOWER LIMIT		115217	4.86	457463	7.84	231004	10.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-420017/1-A		220821	5.36	834816	8.34	440812	10.74
MB 480-420017/2-A		211924	5.36	787050	8.34	418443	10.74
480-137530-4	PDI-7-SO-17-06132018	209225	5.36	817048	8.34	423773	10.74

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Sample No.: CCVIS 480-420526/3 Date Analyzed: 06/20/2018 08:19

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): N0764.D Heated Purge: (Y/N) N

Calibration ID: 34082

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		213014	5.36	803514	8.34	411367	10.74
UPPER LIMIT		426028	5.86	1607028	8.84	822734	11.24
LOWER LIMIT		106507	4.86	401757	7.84	205684	10.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-137530-4 MS	PDI-7-SO-17-06132018 MS	197487	5.36	783425	8.34	404069	10.74
480-137530-4 MSD	PDI-7-SO-17-06132018 MSD	198525	5.35	782568	8.34	406780	10.74

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-6-SO-14-06132018 | Lab Sample ID: 480-137530-1

Matrix: Solid | Lab File ID: F2866.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:00

Sample wt/vol: 7.041(g) | Date Analyzed: 06/16/2018 13:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.7 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H	4.5	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	4.5	0.74
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.5	1.0
79-00-5	1,1,2-Trichloroethane	ND	H	4.5	0.59
75-34-3	1,1-Dichloroethane	ND	H	4.5	0.55
75-35-4	1,1-Dichloroethene	ND	H	4.5	0.56
120-82-1	1,2,4-Trichlorobenzene	ND	H	4.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H	4.5	2.3
95-50-1	1,2-Dichlorobenzene	ND	H	4.5	0.35
107-06-2	1,2-Dichloroethane	ND	H	4.5	0.23
78-87-5	1,2-Dichloropropane	ND	H	4.5	2.3
541-73-1	1,3-Dichlorobenzene	ND	H	4.5	0.23
106-46-7	1,4-Dichlorobenzene	ND	H	4.5	0.63
78-93-3	2-Butanone (MEK)	ND	H	23	1.7
591-78-6	2-Hexanone	ND	H	23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H	23	1.5
67-64-1	Acetone	5.4	J H	23	3.8
71-43-2	Benzene	ND	H	4.5	0.22
75-25-2	Bromoform	ND	H	4.5	2.3
74-83-9	Bromomethane	ND	H	4.5	0.41
75-15-0	Carbon disulfide	ND	H	4.5	2.3
56-23-5	Carbon tetrachloride	ND	H	4.5	0.44
108-90-7	Chlorobenzene	ND	H	4.5	0.60
124-48-1	Dibromochloromethane	ND	H	4.5	0.58
75-00-3	Chloroethane	ND	H	4.5	1.0
67-66-3	Chloroform	ND	H	4.5	0.28
74-87-3	Chloromethane	ND	H	4.5	0.27
156-59-2	cis-1,2-Dichloroethene	ND	H	4.5	0.58
110-82-7	Cyclohexane	ND	H	4.5	0.63
75-27-4	Bromodichloromethane	ND	H	4.5	0.61
75-71-8	Dichlorodifluoromethane	ND	H	4.5	0.37
100-41-4	Ethylbenzene	ND	H	4.5	0.31
106-93-4	1,2-Dibromoethane	ND	H	4.5	0.58
98-82-8	Isopropylbenzene	ND	H	4.5	0.68
79-20-9	Methyl acetate	ND	H	23	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-6-SO-14-06132018 | Lab Sample ID: 480-137530-1

Matrix: Solid | Lab File ID: F2866.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:00

Sample wt/vol: 7.041(g) | Date Analyzed: 06/16/2018 13:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.7 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	H	4.5	0.45
108-87-2	Methylcyclohexane	ND	H	4.5	0.69
75-09-2	Methylene Chloride	ND	H	4.5	2.1
127-18-4	Tetrachloroethene	ND	H	4.5	0.61
108-88-3	Toluene	ND	H	4.5	0.34
156-60-5	trans-1,2-Dichloroethene	ND	H	4.5	0.47
10061-02-6	trans-1,3-Dichloropropene	ND	H	4.5	2.0
79-01-6	Trichloroethene	1.2	J H	4.5	1.0
75-69-4	Trichlorofluoromethane	ND	H	4.5	0.43
75-01-4	Vinyl chloride	ND	H	4.5	0.55
1330-20-7	Xylenes, Total	ND	H	9.1	0.76
10061-01-5	cis-1,3-Dichloropropene	ND	H	4.5	0.65
100-42-5	Styrene	ND	H	4.5	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2866.D
Lims ID: 480-137530-C-1-A
Client ID: PDI-6-SO-14-06132018
Sample Type: Client
Inject. Date: 16-Jun-2018 13:12:30 ALS Bottle#: 5 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137530-C-1-A
Misc. Info.: 480-0072382-012
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 08:28:02 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 08:28:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	265502	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	558306	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	507294	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.679	0.006	93	328034	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.953	0.007	97	222579	52.8	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1273799	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	411944	47.3	
10 Dichlorodifluoromethane	85		1.802				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.070				ND	
14 Bromomethane	94		2.356				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952				ND	
22 1,1-Dichloroethene	96		2.976				ND	
23 Acetone	43	3.043	3.031	0.012	100	16496	5.92	
26 Carbon disulfide	76		3.183				ND	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96		4.303				ND	
50 Chloroform	83	4.546	4.540	0.006	86	3268	0.2315	
51 1,1,1-Trichloroethane	97		4.680				ND	
52 Cyclohexane	56		4.704				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.978				ND	
58 1,2-Dichloroethane	62		5.014				ND	
62 Trichloroethene	95	5.501	5.495	0.006	96	10879	1.33	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.629				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.951				ND	
72 cis-1,3-Dichloropropene	75		6.328				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92		6.620				ND	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166		7.137				ND	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106	8.208	8.202	0.006	97	4360	0.2881	
91 o-Xylene	106		8.628				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1				0		0.2881	

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

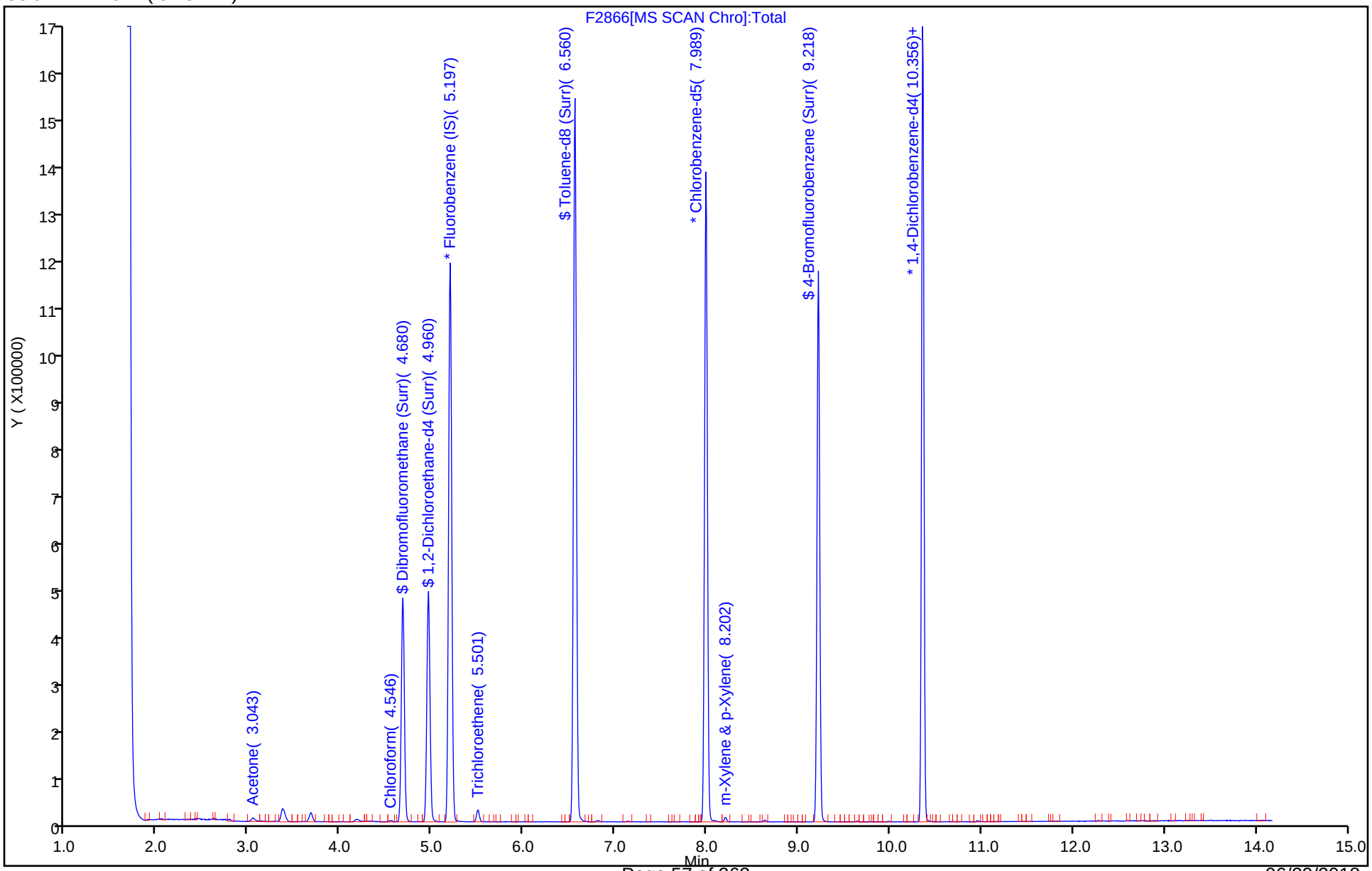
Report Date: 18-Jun-2018 08:28:26 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2866.D

Injection Date:	16-Jun-2018 13:12:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137530-C-1-A	Lab Sample ID:	480-137530-1	Worklist Smp#:	12
Client ID:	PDI-6-SO-14-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

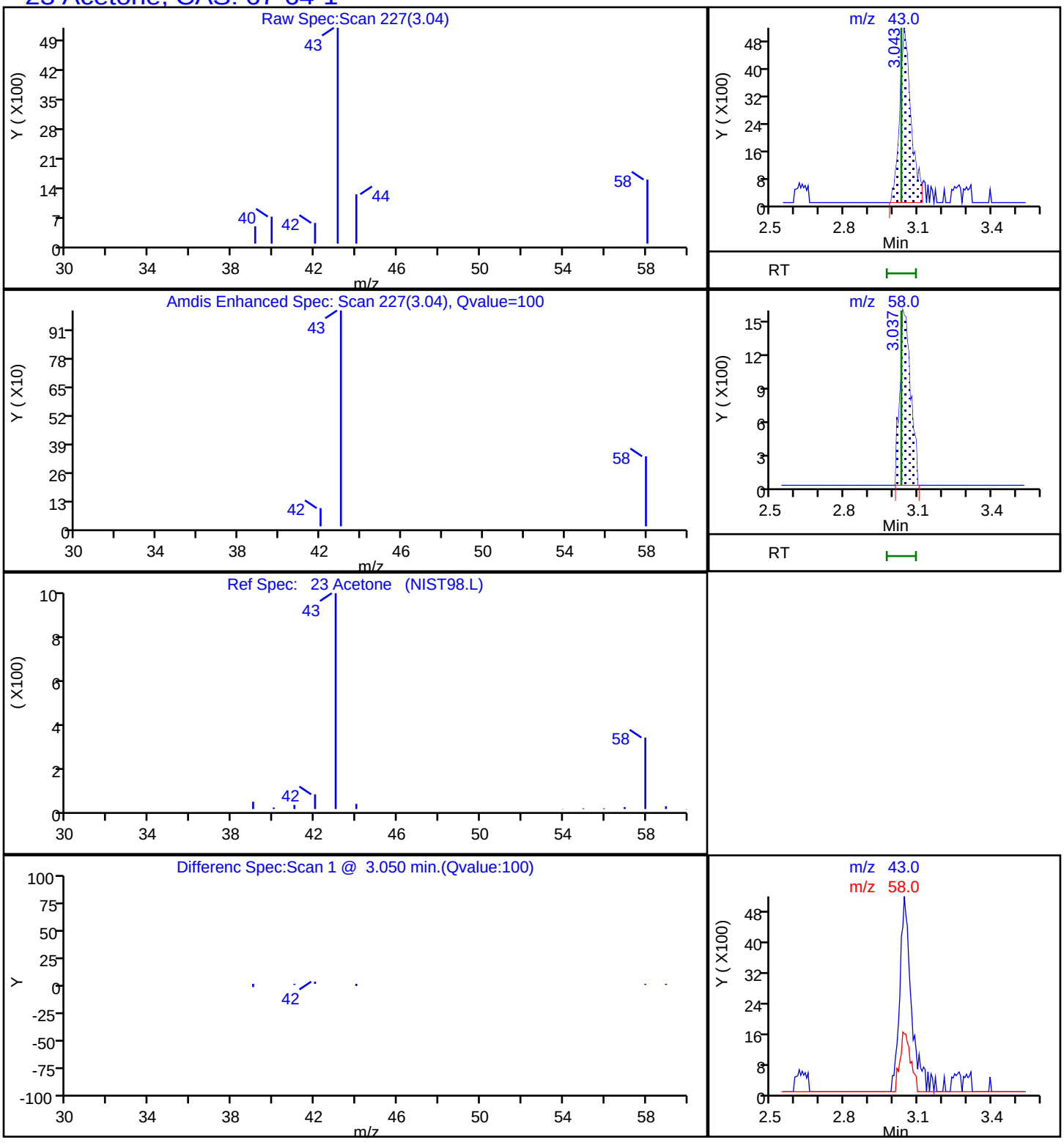


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2866.D

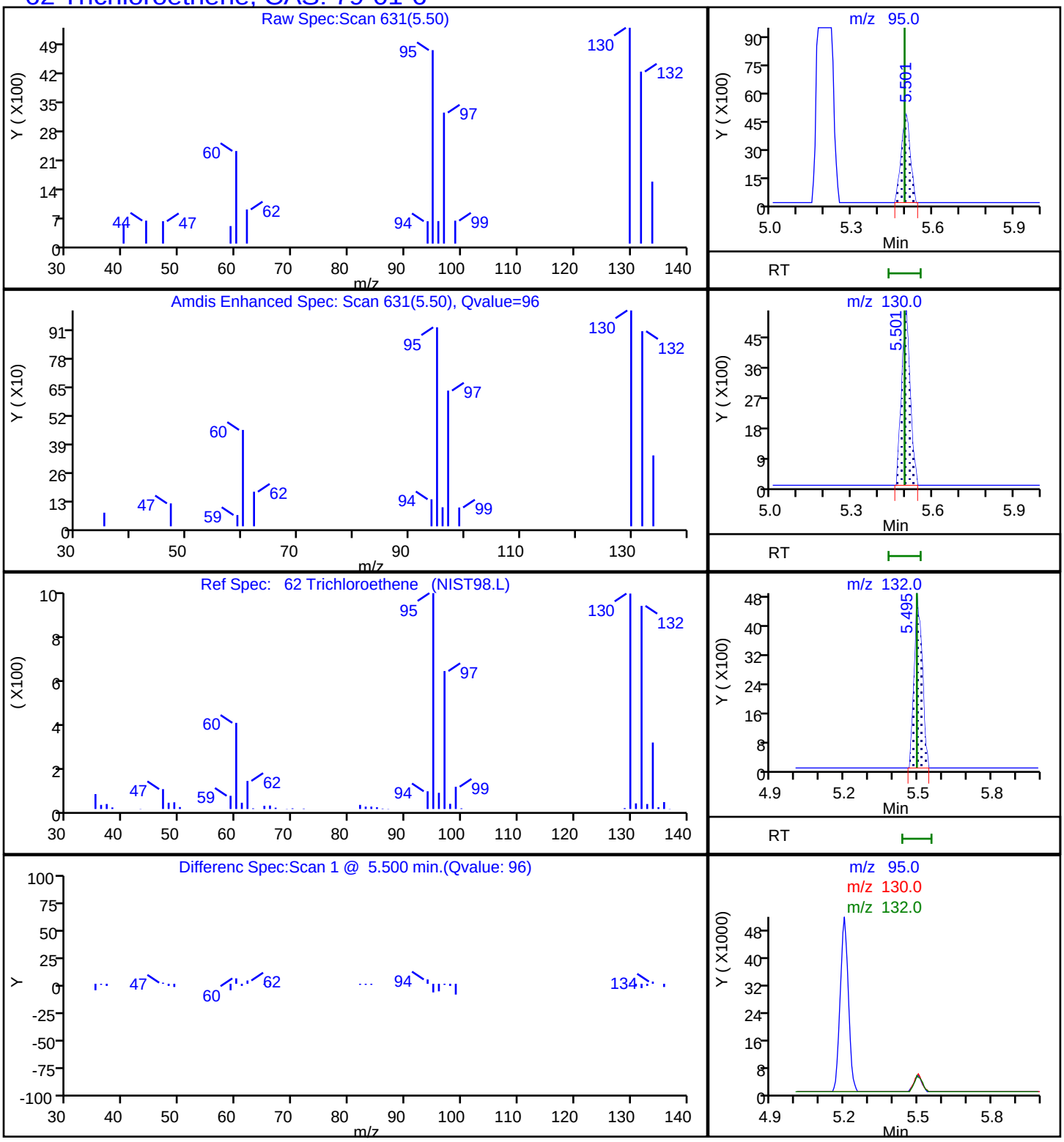
Injection Date:	16-Jun-2018 13:12:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-1-A	Lab Sample ID:	480-137530-1
Client ID:	PDI-6-SO-14-06132018		
Operator ID:	AM	ALS Bottle#:	5 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2866.D
Injection Date: 16-Jun-2018 13:12:30 Instrument ID: HP5973F
Lims ID: 480-137530-C-1-A Lab Sample ID: 480-137530-1
Client ID: PDI-6-SO-14-06132018
Operator ID: AM ALS Bottle#: 5 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-6-SO-16-06132018 | Lab Sample ID: 480-137530-2

Matrix: Solid | Lab File ID: F2867.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:05

Sample wt/vol: 6.569(g) | Date Analyzed: 06/16/2018 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 26.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4.5	J H	5.2	0.38
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	5.2	0.84
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.2	1.2
79-00-5	1,1,2-Trichloroethane	ND	H	5.2	0.67
75-34-3	1,1-Dichloroethane	ND	H	5.2	0.63
75-35-4	1,1-Dichloroethene	ND	H	5.2	0.63
120-82-1	1,2,4-Trichlorobenzene	ND	H	5.2	0.31
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H	5.2	2.6
95-50-1	1,2-Dichlorobenzene	ND	H	5.2	0.40
107-06-2	1,2-Dichloroethane	ND	H	5.2	0.26
78-87-5	1,2-Dichloropropane	ND	H	5.2	2.6
541-73-1	1,3-Dichlorobenzene	ND	H	5.2	0.27
106-46-7	1,4-Dichlorobenzene	ND	H	5.2	0.72
78-93-3	2-Butanone (MEK)	ND	H	26	1.9
591-78-6	2-Hexanone	ND	H	26	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H	26	1.7
67-64-1	Acetone	28	H	26	4.4
71-43-2	Benzene	ND	H	5.2	0.25
75-25-2	Bromoform	ND	H	5.2	2.6
74-83-9	Bromomethane	ND	H	5.2	0.47
75-15-0	Carbon disulfide	ND	H	5.2	2.6
56-23-5	Carbon tetrachloride	ND	H	5.2	0.50
108-90-7	Chlorobenzene	ND	H	5.2	0.68
124-48-1	Dibromochloromethane	ND	H	5.2	0.66
75-00-3	Chloroethane	ND	H	5.2	1.2
67-66-3	Chloroform	0.77	J H	5.2	0.32
74-87-3	Chloromethane	ND	H	5.2	0.31
156-59-2	cis-1,2-Dichloroethene	1.0	J H	5.2	0.66
110-82-7	Cyclohexane	ND	H	5.2	0.72
75-27-4	Bromodichloromethane	ND	H	5.2	0.69
75-71-8	Dichlorodifluoromethane	ND	H	5.2	0.43
100-41-4	Ethylbenzene	ND	H	5.2	0.36
106-93-4	1,2-Dibromoethane	ND	H	5.2	0.66
98-82-8	Isopropylbenzene	ND	H	5.2	0.78
79-20-9	Methyl acetate	ND	H	26	3.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-6-SO-16-06132018 | Lab Sample ID: 480-137530-2

Matrix: Solid | Lab File ID: F2867.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:05

Sample wt/vol: 6.569(g) | Date Analyzed: 06/16/2018 13:38

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 26.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	H	5.2	0.51
108-87-2	Methylcyclohexane	ND	H	5.2	0.79
75-09-2	Methylene Chloride	ND	H	5.2	2.4
127-18-4	Tetrachloroethene	ND	H	5.2	0.69
108-88-3	Toluene	ND	H	5.2	0.39
156-60-5	trans-1,2-Dichloroethene	ND	H	5.2	0.53
10061-02-6	trans-1,3-Dichloropropene	ND	H	5.2	2.3
79-01-6	Trichloroethene	170	H	5.2	1.1
75-69-4	Trichlorofluoromethane	2.5	J H	5.2	0.49
75-01-4	Vinyl chloride	ND	H	5.2	0.63
1330-20-7	Xylenes, Total	ND	H	10	0.87
10061-01-5	cis-1,3-Dichloropropene	ND	H	5.2	0.75
100-42-5	Styrene	ND	H	5.2	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	81		72-126
2037-26-5	Toluene-d8 (Surr)	108		71-125
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D
Lims ID: 480-137530-C-2-A
Client ID: PDI-6-SO-16-06132018
Sample Type: Client
Inject. Date: 16-Jun-2018 13:38:30 ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137530-C-2-A
Misc. Info.: 480-0072382-013
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 08:29:32 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 08:29:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	254385	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	484227	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	291961	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.679	0.006	93	314229	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.953	0.007	97	207168	51.3	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1209318	54.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	303908	40.3	
10 Dichlorodifluoromethane	85		1.802				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.070				ND	
14 Bromomethane	94		2.356				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	97	20304	2.40	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952				ND	
22 1,1-Dichloroethene	96	2.983	2.976	0.007	93	2580	0.3931	
23 Acetone	43	3.043	3.031	0.012	100	72161	27.0	
26 Carbon disulfide	76	3.196	3.183	0.013	99	21603	1.02	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.007	80	8164	0.9827	
50 Chloroform	83	4.546	4.540	0.006	90	10012	0.7403	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	97	49815	4.34	
52 Cyclohexane	56		4.704				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.978				ND	
58 1,2-Dichloroethane	62		5.014				ND	
62 Trichloroethene	95	5.495	5.495	0.000	98	1271642	162.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.629				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.951				ND	
72 cis-1,3-Dichloropropene	75		6.328				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92	6.627	6.620	0.007	95	5553	0.3201	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166		7.137				ND	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.628				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

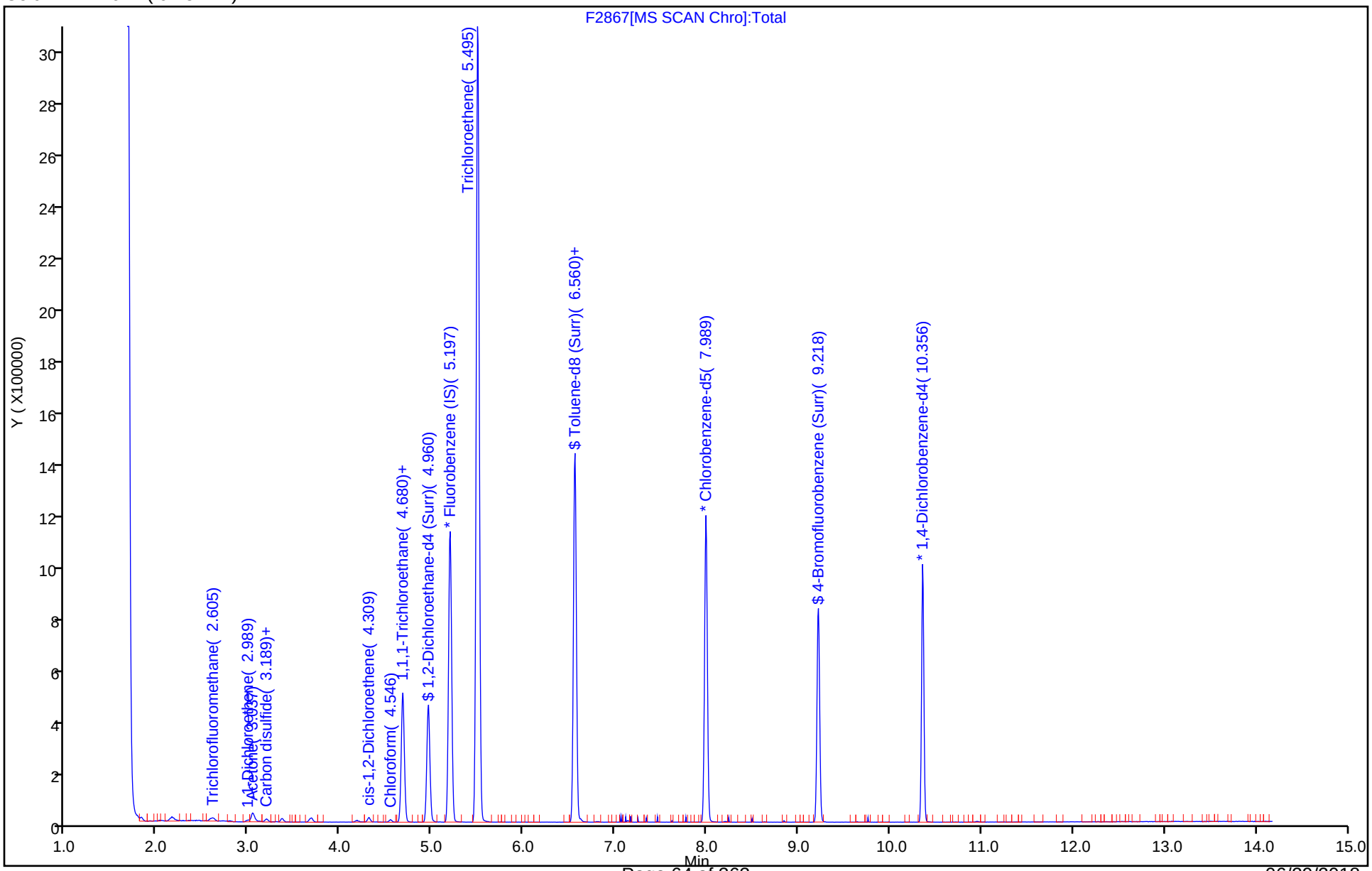
Report Date: 18-Jun-2018 08:29:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D

Injection Date:	16-Jun-2018 13:38:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137530-C-2-A	Lab Sample ID:	480-137530-2	Worklist Smp#:	13
Client ID:	PDI-6-SO-16-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



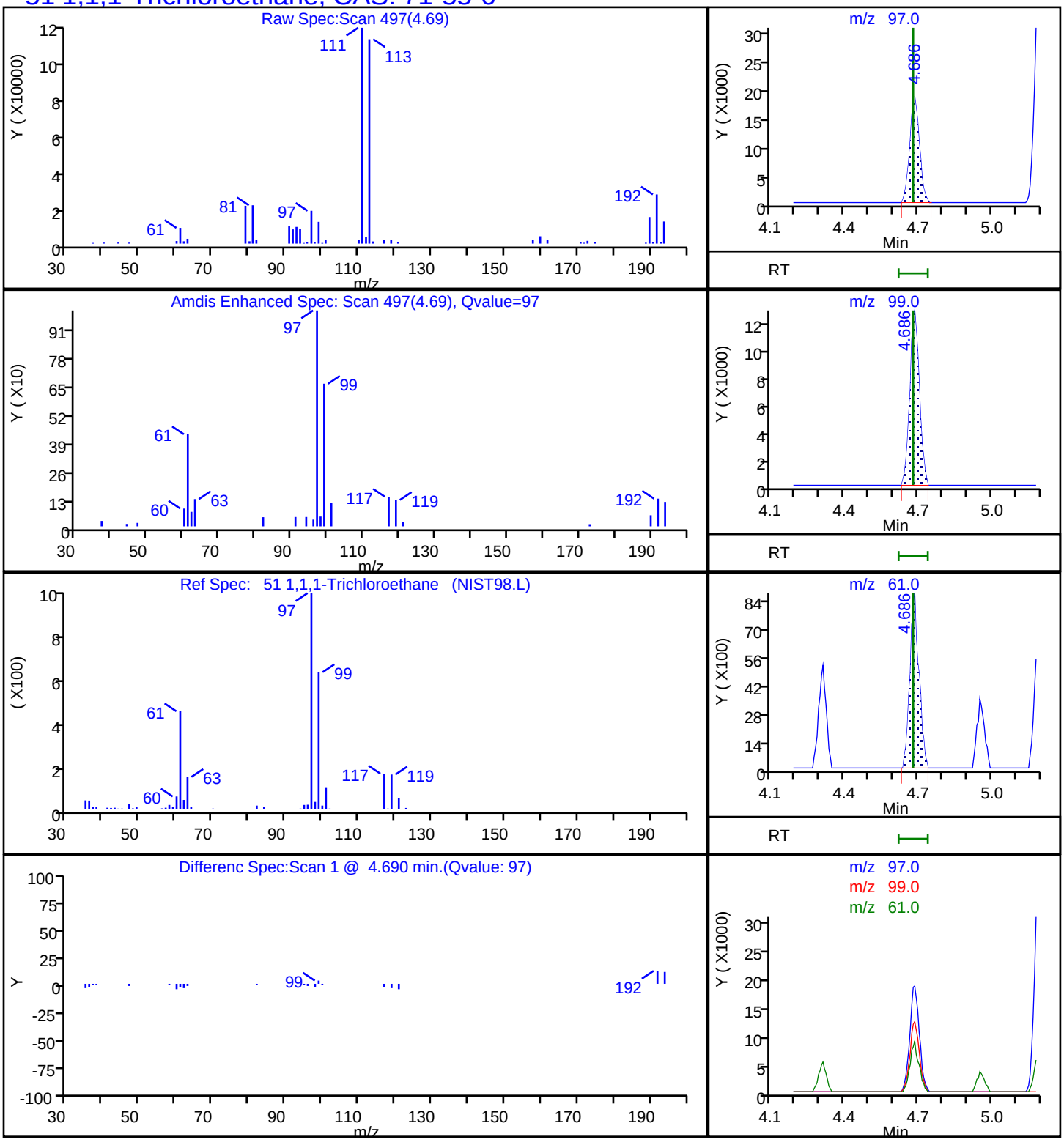
Report Date: 18-Jun-2018 08:29:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D

Injection Date:	16-Jun-2018 13:38:30	Instrument ID:	HP5973F		
Lims ID:	480-137530-C-2-A	Lab Sample ID:	480-137530-2		
Client ID:	PDI-6-SO-16-06132018				
Operator ID:	AM	ALS Bottle#:	6	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

51 1,1,1-Trichloroethane, CAS: 71-55-6

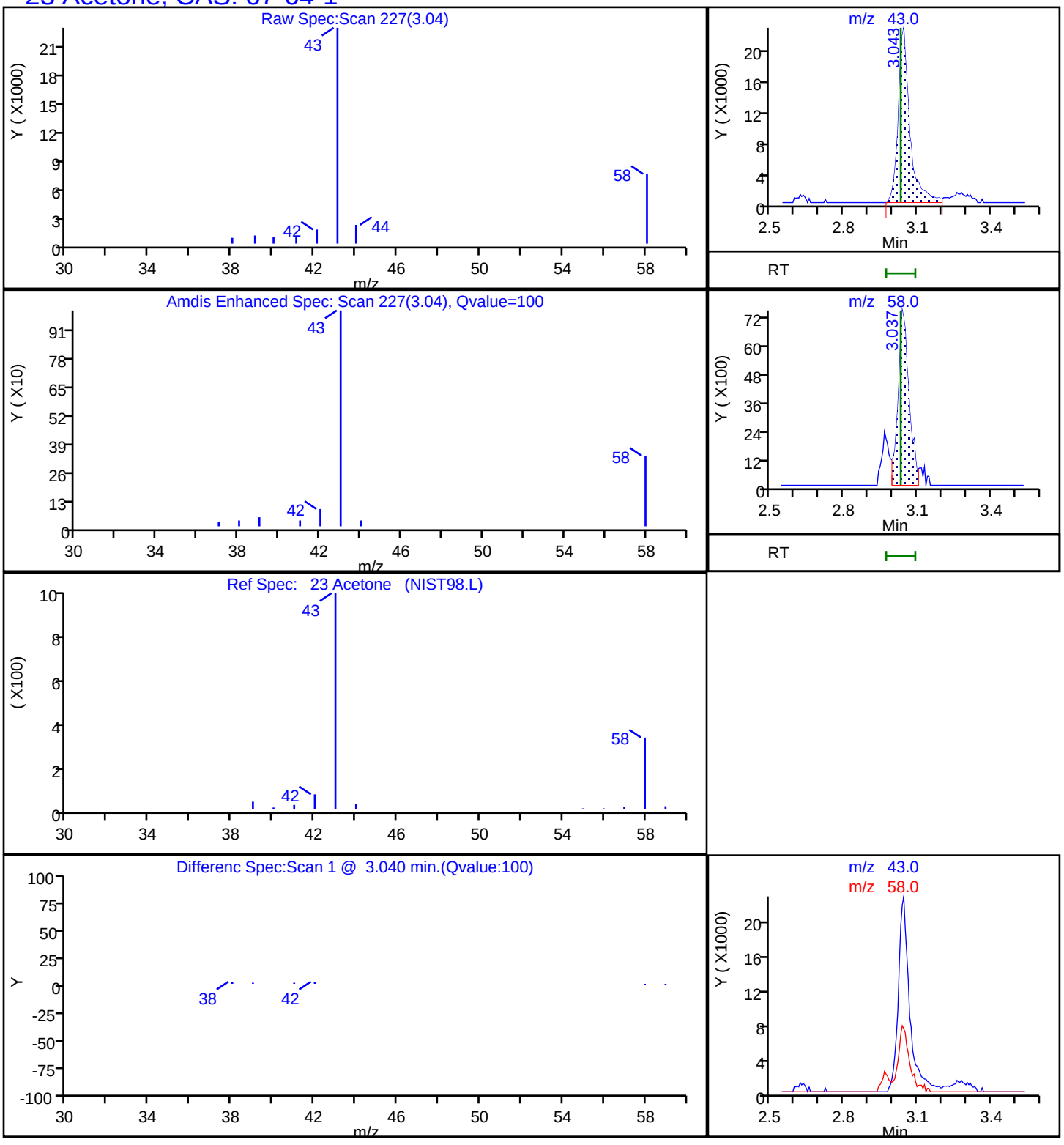


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D

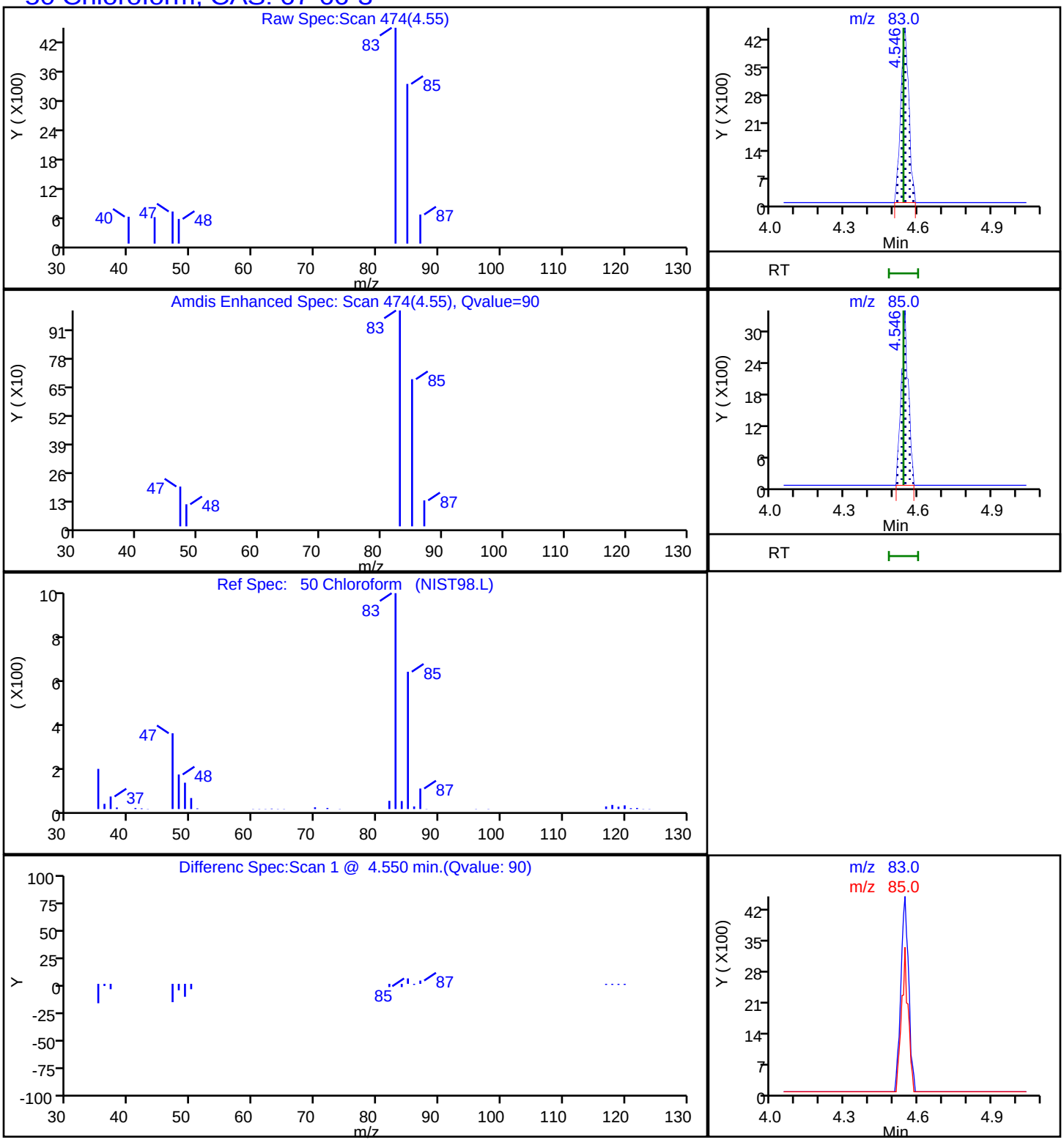
Injection Date:	16-Jun-2018 13:38:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-2-A	Lab Sample ID:	480-137530-2
Client ID:	PDI-6-SO-16-06132018		
Operator ID:	AM	ALS Bottle#:	6 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D
Injection Date: 16-Jun-2018 13:38:30 Instrument ID: HP5973F
Lims ID: 480-137530-C-2-A Lab Sample ID: 480-137530-2
Client ID: PDI-6-SO-16-06132018
Operator ID: AM ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

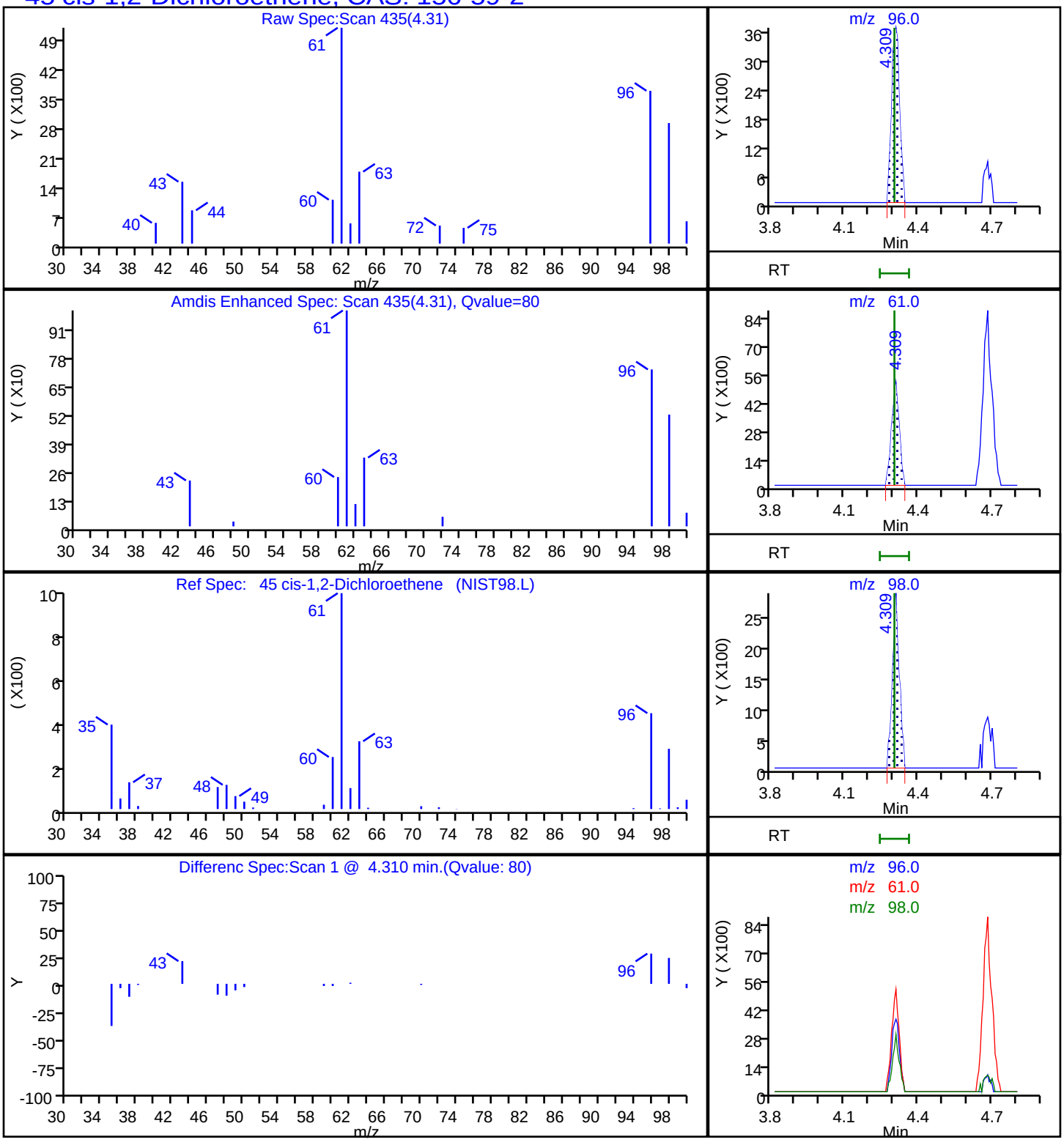


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D

Injection Date:	16-Jun-2018 13:38:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-2-A	Lab Sample ID:	480-137530-2
Client ID:	PDI-6-SO-16-06132018		
Operator ID:	AM	ALS Bottle#:	6 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

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



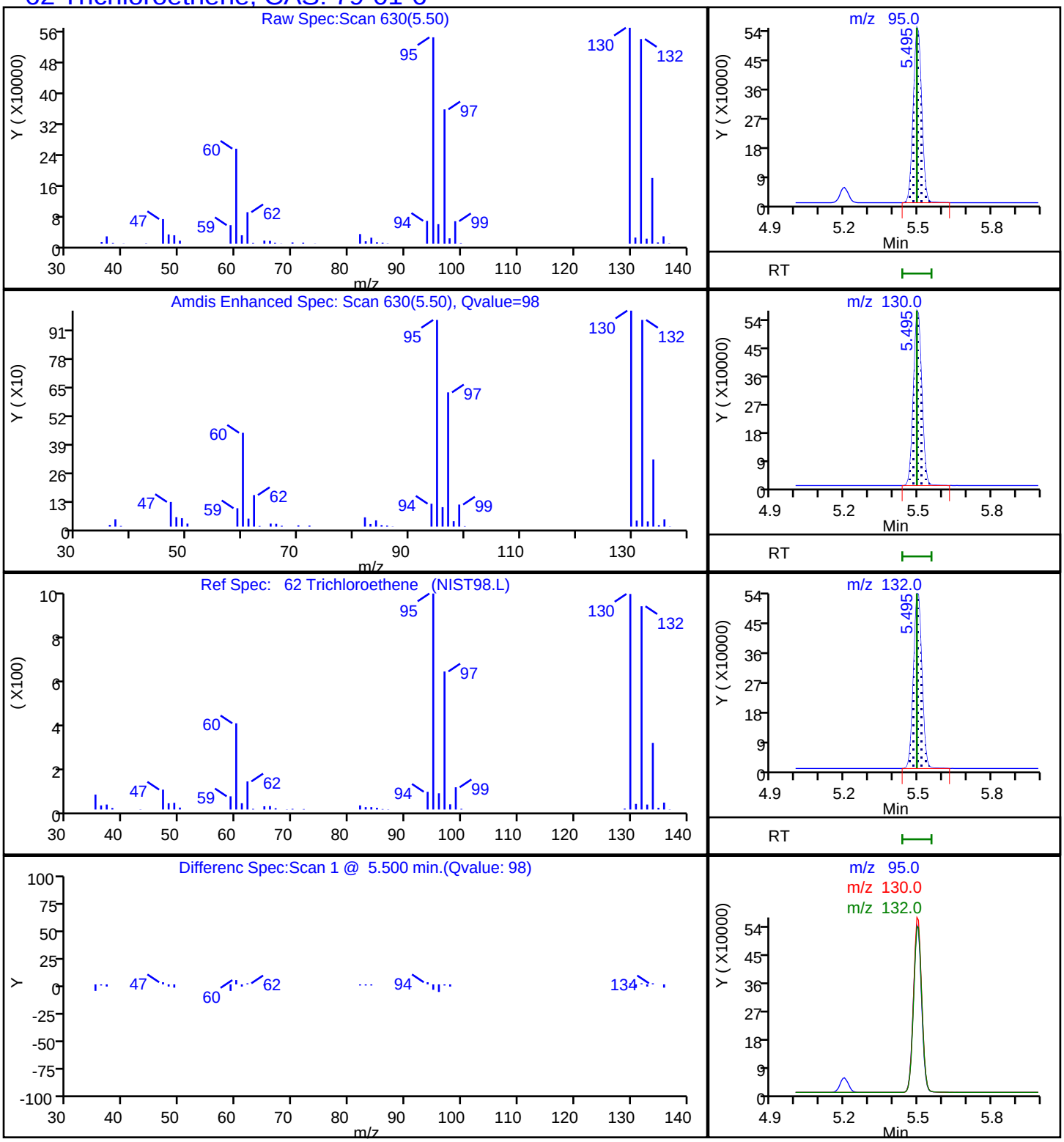
Report Date: 18-Jun-2018 08:29:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D

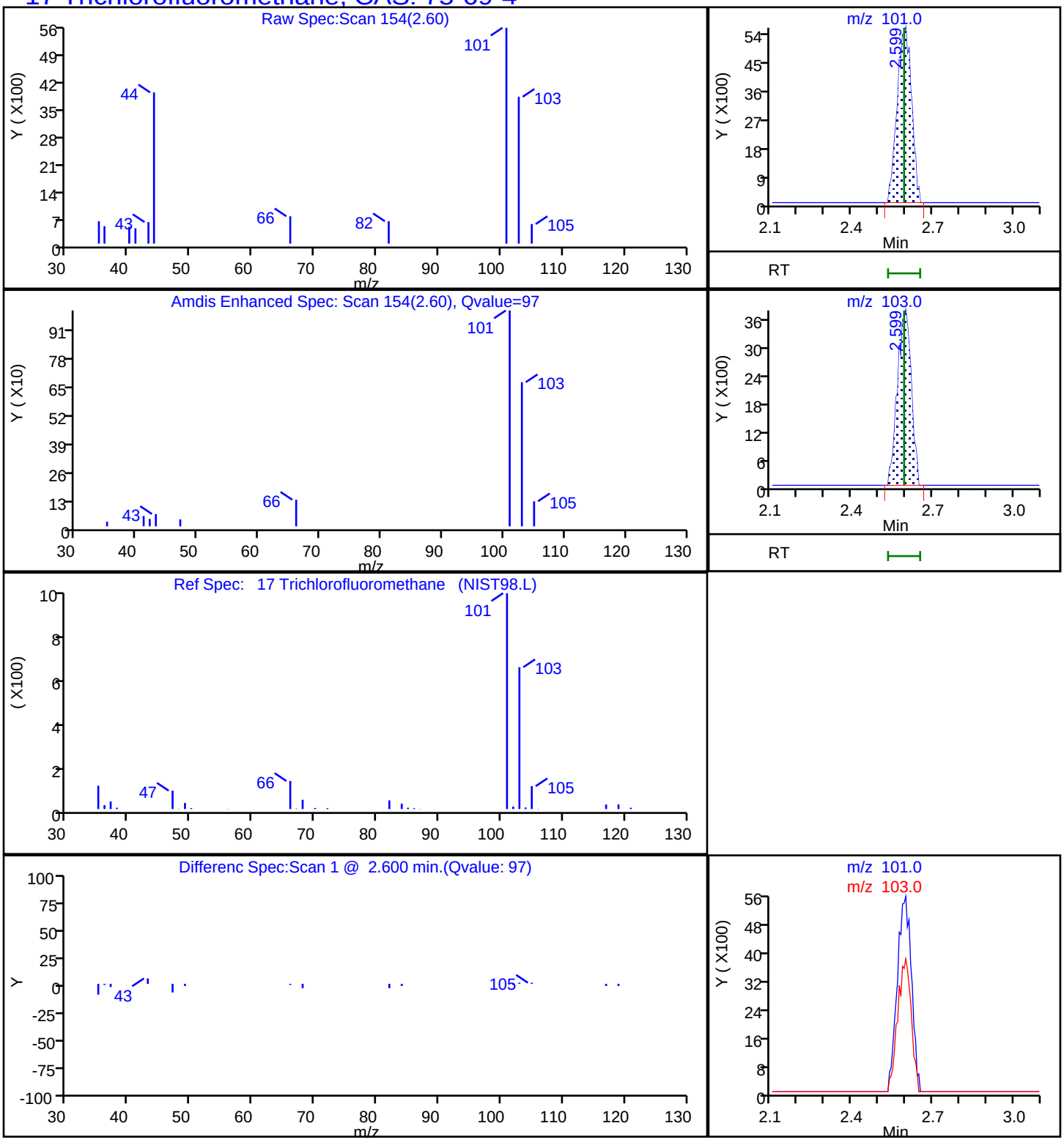
Injection Date:	16-Jun-2018 13:38:30	Instrument ID:	HP5973F		
Lims ID:	480-137530-C-2-A	Lab Sample ID:	480-137530-2		
Client ID:	PDI-6-SO-16-06132018				
Operator ID:	AM	ALS Bottle#:	6	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2867.D
Injection Date: 16-Jun-2018 13:38:30 Instrument ID: HP5973F
Lims ID: 480-137530-C-2-A Lab Sample ID: 480-137530-2
Client ID: PDI-6-SO-16-06132018
Operator ID: AM ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-106-SO-16-06132018 | Lab Sample ID: 480-137530-3

Matrix: Solid | Lab File ID: F2868.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:10

Sample wt/vol: 6.389(g) | Date Analyzed: 06/16/2018 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 26.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	3.3	J H	5.3	0.39
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	5.3	0.86
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.3	1.2
79-00-5	1,1,2-Trichloroethane	ND	H	5.3	0.69
75-34-3	1,1-Dichloroethane	ND	H	5.3	0.65
75-35-4	1,1-Dichloroethene	ND	H	5.3	0.65
120-82-1	1,2,4-Trichlorobenzene	ND	H	5.3	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H	5.3	2.7
95-50-1	1,2-Dichlorobenzene	ND	H	5.3	0.42
107-06-2	1,2-Dichloroethane	ND	H	5.3	0.27
78-87-5	1,2-Dichloropropane	ND	H	5.3	2.7
541-73-1	1,3-Dichlorobenzene	ND	H	5.3	0.27
106-46-7	1,4-Dichlorobenzene	ND	H	5.3	0.75
78-93-3	2-Butanone (MEK)	ND	H	27	1.9
591-78-6	2-Hexanone	ND	H	27	2.7
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H	27	1.7
67-64-1	Acetone	34	H	27	4.5
71-43-2	Benzene	ND	H	5.3	0.26
75-25-2	Bromoform	ND	H	5.3	2.7
74-83-9	Bromomethane	ND	H	5.3	0.48
75-15-0	Carbon disulfide	ND	H	5.3	2.7
56-23-5	Carbon tetrachloride	ND	H	5.3	0.52
108-90-7	Chlorobenzene	ND	H	5.3	0.70
124-48-1	Dibromochloromethane	ND	H	5.3	0.68
75-00-3	Chloroethane	ND	H	5.3	1.2
67-66-3	Chloroform	0.69	J H	5.3	0.33
74-87-3	Chloromethane	ND	H	5.3	0.32
156-59-2	cis-1,2-Dichloroethene	ND	H	5.3	0.68
110-82-7	Cyclohexane	ND	H	5.3	0.75
75-27-4	Bromodichloromethane	ND	H	5.3	0.71
75-71-8	Dichlorodifluoromethane	ND	H	5.3	0.44
100-41-4	Ethylbenzene	ND	H	5.3	0.37
106-93-4	1,2-Dibromoethane	ND	H	5.3	0.68
98-82-8	Isopropylbenzene	ND	H	5.3	0.80
79-20-9	Methyl acetate	ND	H	27	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-106-SO-16-06132018 | Lab Sample ID: 480-137530-3

Matrix: Solid | Lab File ID: F2868.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:10

Sample wt/vol: 6.389(g) | Date Analyzed: 06/16/2018 14:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 26.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	H	5.3	0.52
108-87-2	Methylcyclohexane	ND	H	5.3	0.81
75-09-2	Methylene Chloride	ND	H	5.3	2.4
127-18-4	Tetrachloroethene	ND	H	5.3	0.71
108-88-3	Toluene	ND	H	5.3	0.40
156-60-5	trans-1,2-Dichloroethene	ND	H	5.3	0.55
10061-02-6	trans-1,3-Dichloropropene	ND	H	5.3	2.3
79-01-6	Trichloroethene	1.3	J H	5.3	1.2
75-69-4	Trichlorofluoromethane	1.9	J H	5.3	0.50
75-01-4	Vinyl chloride	ND	H	5.3	0.65
1330-20-7	Xylenes, Total	ND	H	11	0.89
10061-01-5	cis-1,3-Dichloropropene	ND	H	5.3	0.77
100-42-5	Styrene	ND	H	5.3	0.27

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-126
460-00-4	4-Bromofluorobenzene (Surr)	82		72-126
2037-26-5	Toluene-d8 (Surr)	105		71-125
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D
Lims ID: 480-137530-C-3-A
Client ID: PDI-106-SO-16-06132018
Sample Type: Client
Inject. Date: 16-Jun-2018 14:03:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137530-C-3-A
Misc. Info.: 480-0072382-014
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 08:30:31 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 08:30:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	248235	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	487335	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	304285	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.679	0.000	93	307680	50.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.953	0.007	97	206601	52.4	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1183952	52.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	311377	41.0	
10 Dichlorodifluoromethane	85		1.802				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.070				ND	
14 Bromomethane	94		2.356				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	96	14499	1.76	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952				ND	
22 1,1-Dichloroethene	96		2.976				ND	
23 Acetone	43	3.037	3.031	0.006	99	84050	32.3	
26 Carbon disulfide	76	3.189	3.183	0.006	98	12490	0.6033	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96		4.303				ND	
50 Chloroform	83	4.546	4.540	0.006	93	8588	0.6507	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	96	34642	3.09	
52 Cyclohexane	56		4.704				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.978				ND	
58 1,2-Dichloroethane	62		5.014				ND	
62 Trichloroethene	95	5.495	5.495	0.000	96	8994	1.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.629				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.951				ND	
72 cis-1,3-Dichloropropene	75		6.328				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92		6.620				ND	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166		7.137				ND	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.628				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

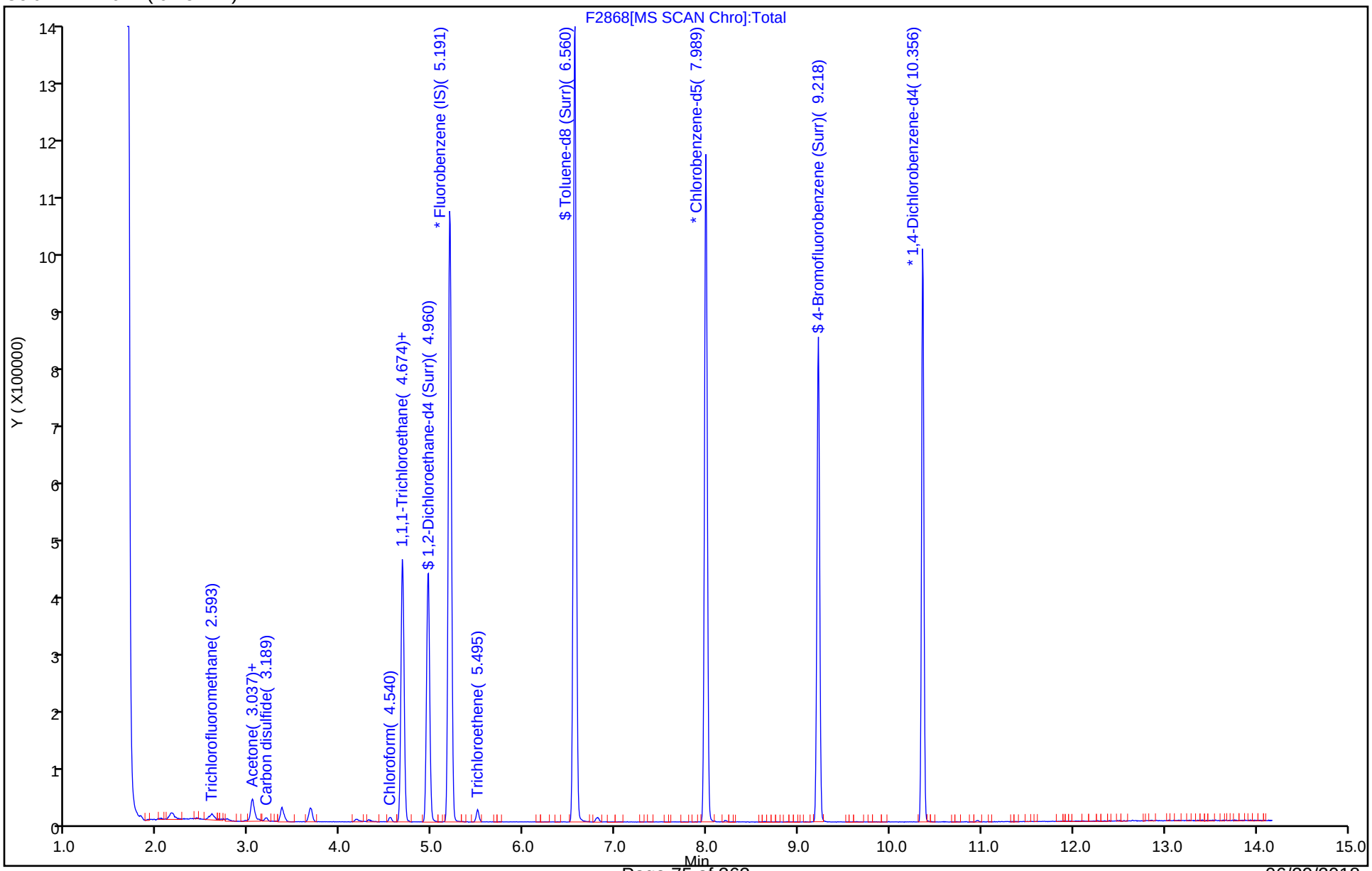
Report Date: 18-Jun-2018 08:30:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D

Injection Date:	16-Jun-2018 14:03:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137530-C-3-A	Lab Sample ID:	480-137530-3	Worklist Smp#:	14
Client ID:	PDI-106-SO-16-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



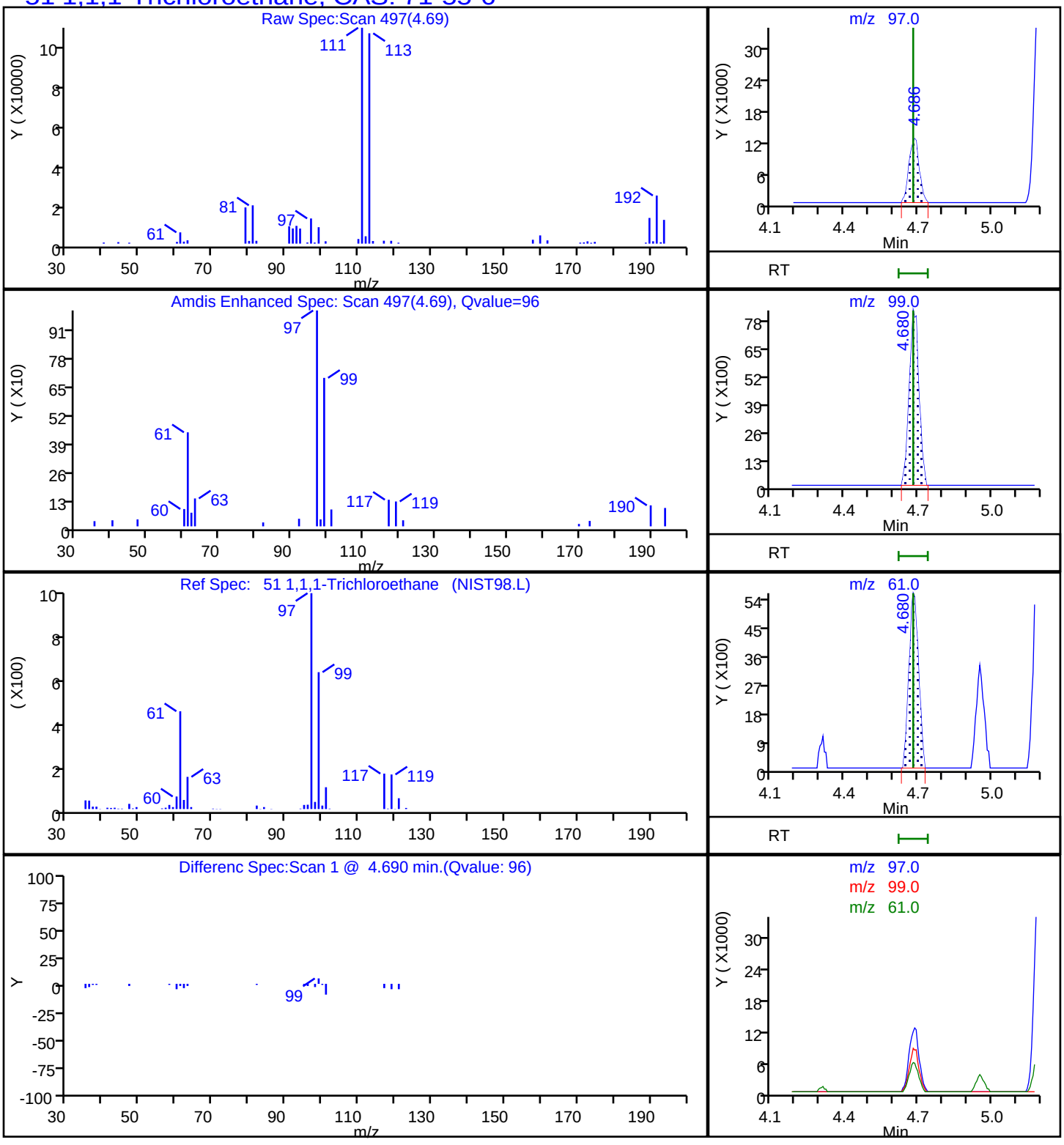
Report Date: 18-Jun-2018 08:30:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D

Injection Date:	16-Jun-2018 14:03:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-3-A	Lab Sample ID:	480-137530-3
Client ID:	PDI-106-SO-16-06132018		
Operator ID:	AM	ALS Bottle#:	7 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

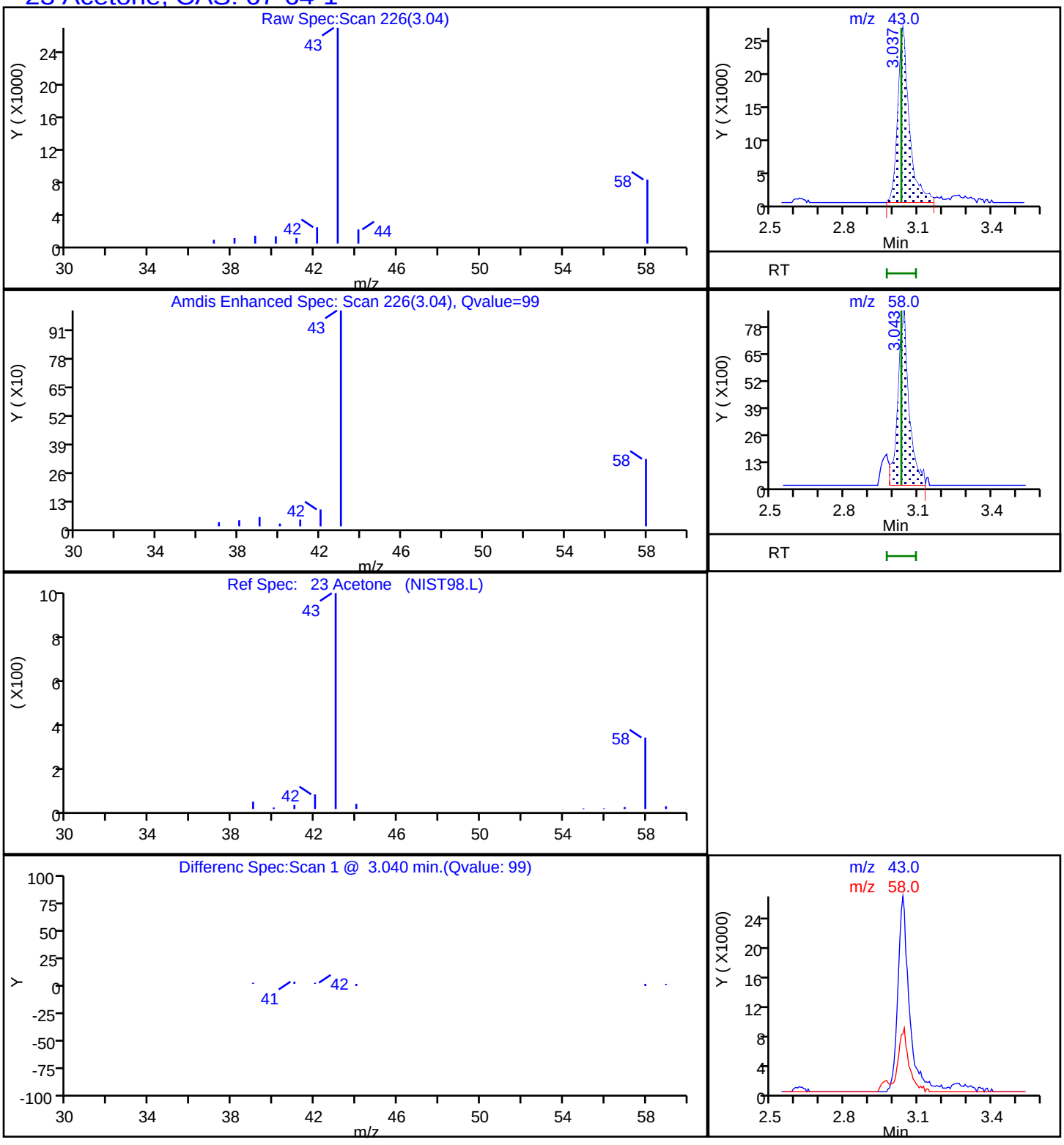


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D

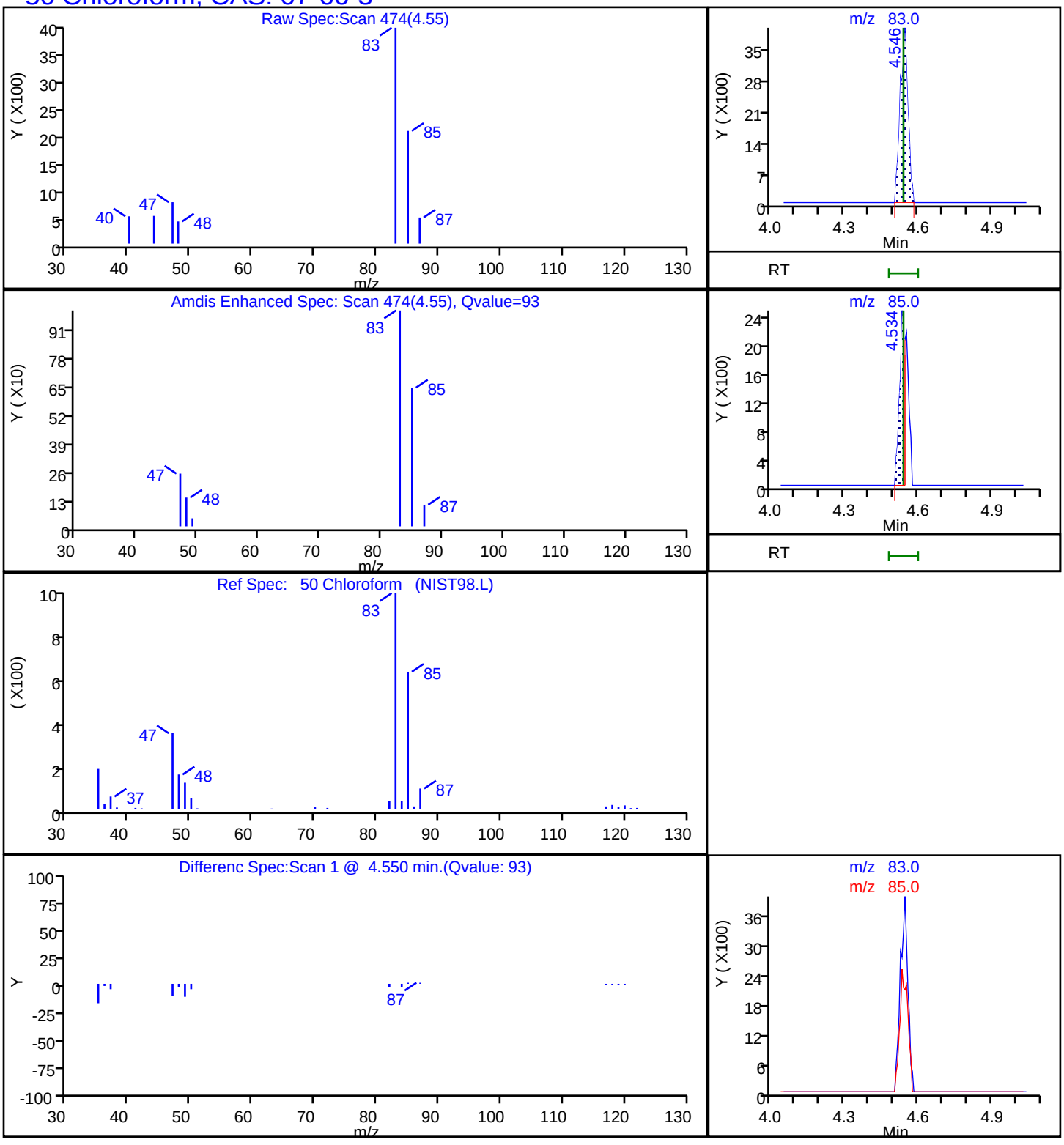
Injection Date:	16-Jun-2018 14:03:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-3-A	Lab Sample ID:	480-137530-3
Client ID:	PDI-106-SO-16-06132018		
Operator ID:	AM	ALS Bottle#:	7 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D
Injection Date: 16-Jun-2018 14:03:30 Instrument ID: HP5973F
Lims ID: 480-137530-C-3-A Lab Sample ID: 480-137530-3
Client ID: PDI-106-SO-16-06132018
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3



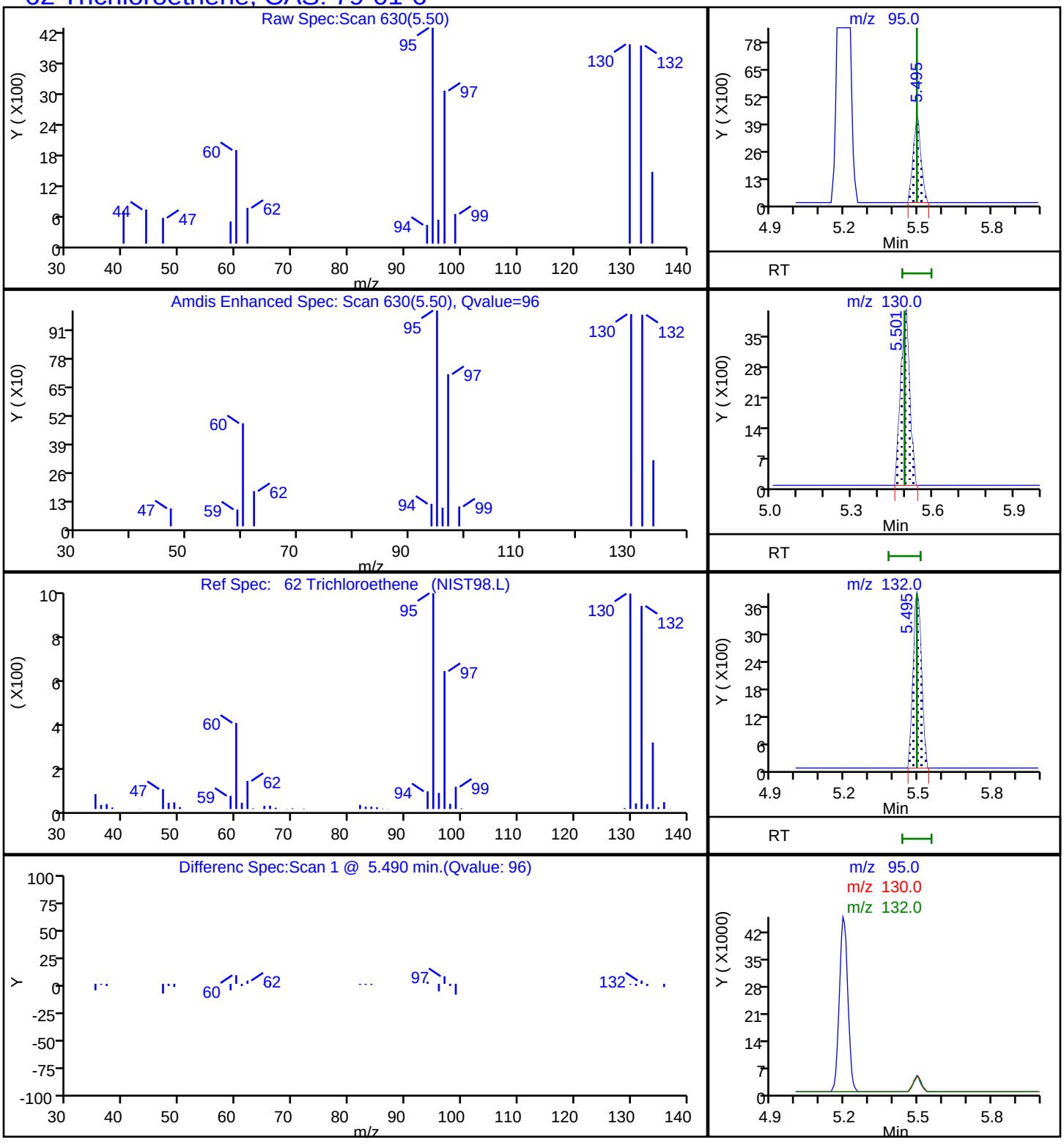
Report Date: 18-Jun-2018 08:30:35 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D

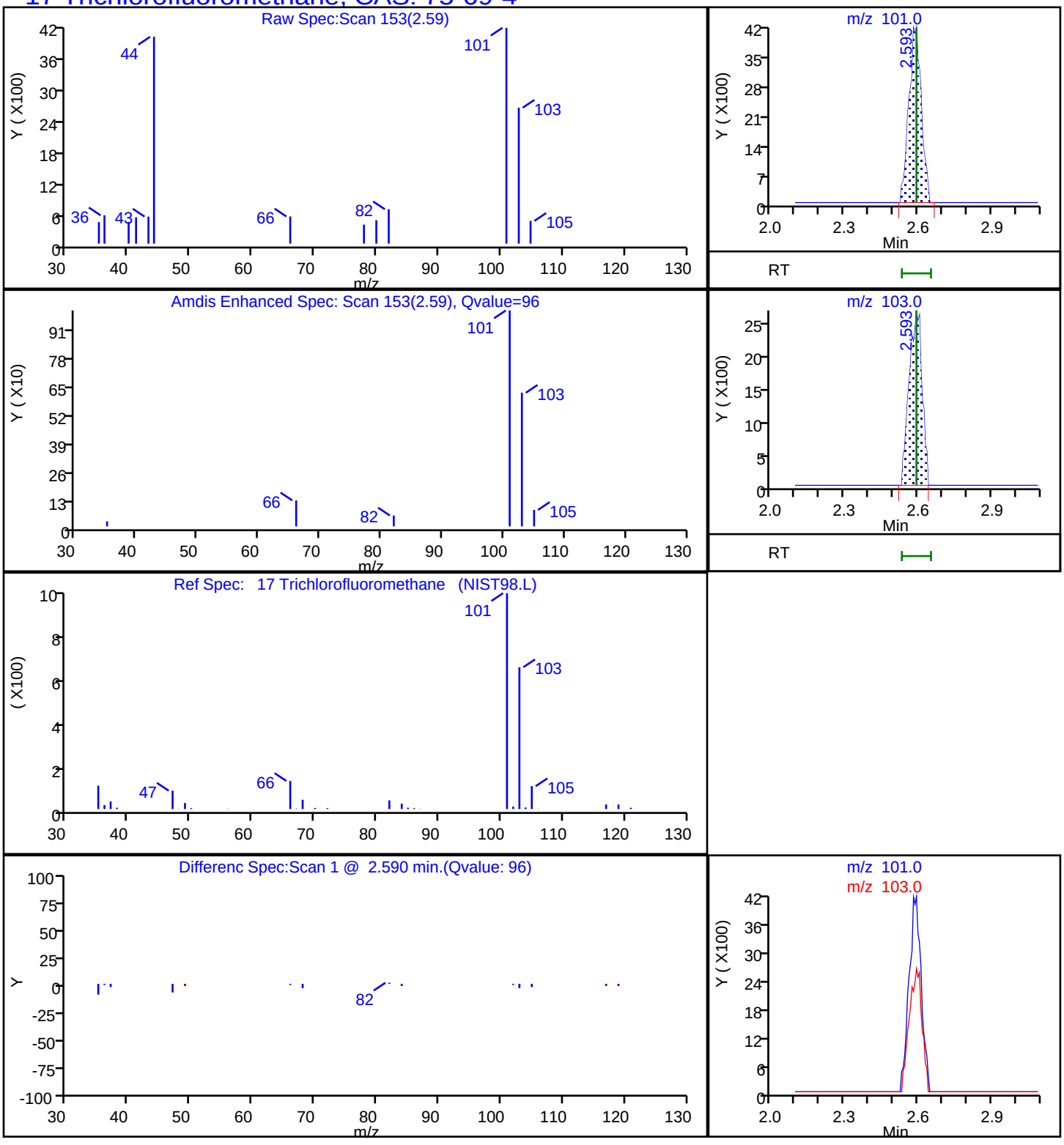
Injection Date:	16-Jun-2018 14:03:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-3-A	Lab Sample ID:	480-137530-3
Client ID:	PDI-106-SO-16-06132018		
Operator ID:	AM	ALS Bottle#:	7 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2868.D
Injection Date: 16-Jun-2018 14:03:30 Instrument ID: HP5973F
Lims ID: 480-137530-C-3-A Lab Sample ID: 480-137530-3
Client ID: PDI-106-SO-16-06132018
Operator ID: AM ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 | Lab Sample ID: 480-137530-4

Matrix: Solid | Lab File ID: N0678.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:40

Sample wt/vol: 5.713(g) | Date Analyzed: 06/18/2018 15:39

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H F1 F2	750	210
79-34-5	1,1,2,2-Tetrachloroethane	ND	H F2	750	120
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	750	380
79-00-5	1,1,2-Trichloroethane	ND	H F1	750	160
75-34-3	1,1-Dichloroethane	ND	H F2 F1	750	230
75-35-4	1,1-Dichloroethene	ND	H	750	260
120-82-1	1,2,4-Trichlorobenzene	ND	H F2 F1	750	280
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H F2	750	380
95-50-1	1,2-Dichlorobenzene	860	H F1 F2	750	190
107-06-2	1,2-Dichloroethane	ND	H F1	750	310
78-87-5	1,2-Dichloropropane	ND	H F1 F2	750	120
541-73-1	1,3-Dichlorobenzene	ND	H F1 F2	750	200
106-46-7	1,4-Dichlorobenzene	ND	H F1 F2	750	110
78-93-3	2-Butanone (MEK)	ND	H F1	3800	2200
591-78-6	2-Hexanone	ND	H F1 F2	3800	1500
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H F1	3800	240
67-64-1	Acetone	ND	H F1	3800	3100
71-43-2	Benzene	ND	H F2	750	140
75-25-2	Bromoform	ND	H	750	380
74-83-9	Bromomethane	ND	H	750	170
75-15-0	Carbon disulfide	ND	H F2	750	340
56-23-5	Carbon tetrachloride	ND	H F2	750	190
108-90-7	Chlorobenzene	ND	H F2 F1	750	99
124-48-1	Dibromochloromethane	ND	H F2	750	360
75-00-3	Chloroethane	ND	H F2	750	160
67-66-3	Chloroform	ND	H F2 F1	750	520
74-87-3	Chloromethane	ND	H F2	750	180
156-59-2	cis-1,2-Dichloroethene	1000	H F1 F2	750	210
110-82-7	Cyclohexane	ND	H	750	170

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 | Lab Sample ID: 480-137530-4

Matrix: Solid | Lab File ID: N0678.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:40

Sample wt/vol: 5.713(g) | Date Analyzed: 06/18/2018 15:39

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-27-4	Bromodichloromethane	ND	H F1 F2	750	150
75-71-8	Dichlorodifluoromethane	ND	H F2	750	330
100-41-4	Ethylbenzene	320	J H F1 F2	750	220
106-93-4	1,2-Dibromoethane	ND	H F1	750	130
98-82-8	Isopropylbenzene	ND	H F2	750	110
79-20-9	Methyl acetate	ND	H F1 F2	3800	360
1634-04-4	Methyl tert-butyl ether	ND	H F1 F2	750	280
108-87-2	Methylcyclohexane	ND	H F2	750	350
75-09-2	Methylene Chloride	ND	H	750	150
127-18-4	Tetrachloroethene	17000	H F2	750	100
108-88-3	Toluene	1300	H F1 F2	750	200
156-60-5	trans-1,2-Dichloroethene	ND	H	750	180
10061-02-6	trans-1,3-Dichloropropene	ND	H F2	750	74
79-01-6	Trichloroethene	42000	H F2	750	210
75-69-4	Trichlorofluoromethane	ND	H F2	750	350
75-01-4	Vinyl chloride	ND	H F2	750	250
1330-20-7	Xylenes, Total	2000	H F1 F2	1500	420
10061-01-5	cis-1,3-Dichloropropene	ND	H F2	750	180
100-42-5	Styrene	ND	H F1 F2	750	180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		53-146
460-00-4	4-Bromofluorobenzene (Surr)	106		49-148
2037-26-5	Toluene-d8 (Surr)	100		50-149
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Lims ID: 480-137530-B-4-A
Client ID: PDI-7-SO-17-06132018
Sample Type: Client
Inject. Date: 18-Jun-2018 15:39:30 ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-137530-B-4-A
Misc. Info.: 480-0072406-011
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2018 08:46:29 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: HillL Date: 28-Jun-2018 11:00:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	98	209225	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.339	-0.001	88	817048	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.742	-0.001	96	423773	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.768	-0.006	92	302927	25.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.072	-0.006	0	405627	27.2	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	96	1073932	24.9	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	91	355783	26.4	
11 Dichlorodifluoromethane	85		1.300				ND	
13 Chloromethane	50		1.470				ND	
14 Vinyl chloride	62		1.549				ND	
15 Bromomethane	94		1.853				ND	
16 Chloroethane	64		1.957				ND	U
18 Trichlorofluoromethane	101		2.145				ND	
22 1,1-Dichloroethene	96		2.638				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.644				ND	
23 Acetone	43		2.736				ND	U
25 Carbon disulfide	76		2.827				ND	
28 Methyl acetate	43		3.034				ND	
30 Methylene Chloride	84		3.125				ND	
32 Methyl tert-butyl ether	73		3.356				ND	
33 trans-1,2-Dichloroethene	96		3.362				ND	
36 1,1-Dichloroethane	63		3.764				ND	
43 cis-1,2-Dichloroethene	96	4.311	4.305	0.006	83	18713	1.33	
44 2-Butanone (MEK)	43		4.336				ND	
50 Chloroform	83		4.615				ND	
51 1,1,1-Trichloroethane	97		4.743				ND	MU
52 Cyclohexane	56		4.767				ND	
53 Carbon tetrachloride	117		4.889				ND	
55 Benzene	78		5.090				ND	
57 1,2-Dichloroethane	62		5.139				ND	
60 Trichloroethene	95	5.698	5.704	-0.006	93	732558	56.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.838				ND	
63 1,2-Dichloropropane	63		5.923				ND	
67 Dichlorobromomethane	83		6.209				ND	
71 cis-1,3-Dichloropropene	75		6.635				ND	
72 4-Methyl-2-pentanone (MIBK	58		6.775				ND	U
73 Toluene	92	6.933	6.933	0.000	96	54303	1.72	
75 trans-1,3-Dichloropropene	75		7.189				ND	
78 1,1,2-Trichloroethane	83		7.377				ND	U
79 Tetrachloroethene	166	7.475	7.469	0.006	95	316404	22.9	
82 2-Hexanone	43		7.615				ND	
83 Chlorodibromomethane	129		7.773				ND	
84 Ethylene Dibromide	107		7.876				ND	
85 Chlorobenzene	112		8.369				ND	
88 Ethylbenzene	91	8.472	8.472	0.000	97	24955	0.4290	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	45823	2.07	
91 o-Xylene	106	9.014	9.020	-0.006	97	10753	0.4669	
92 Styrene	104		9.044				ND	
93 Bromoform	173		9.275				ND	
95 Isopropylbenzene	105		9.409				ND	Ua
98 1,1,2,2-Tetrachloroethane	83		9.786				ND	
110 1,3-Dichlorobenzene	146		10.675				ND	
113 1,4-Dichlorobenzene	146		10.766				ND	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	96	32635	1.15	
117 1,2-Dibromo-3-Chloropropan	75		11.837				ND	
119 1,2,4-Trichlorobenzene	180		12.530				ND	
S 126 Xylenes, Total	1				0		2.54	

QC Flag Legend

Review Flags

M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

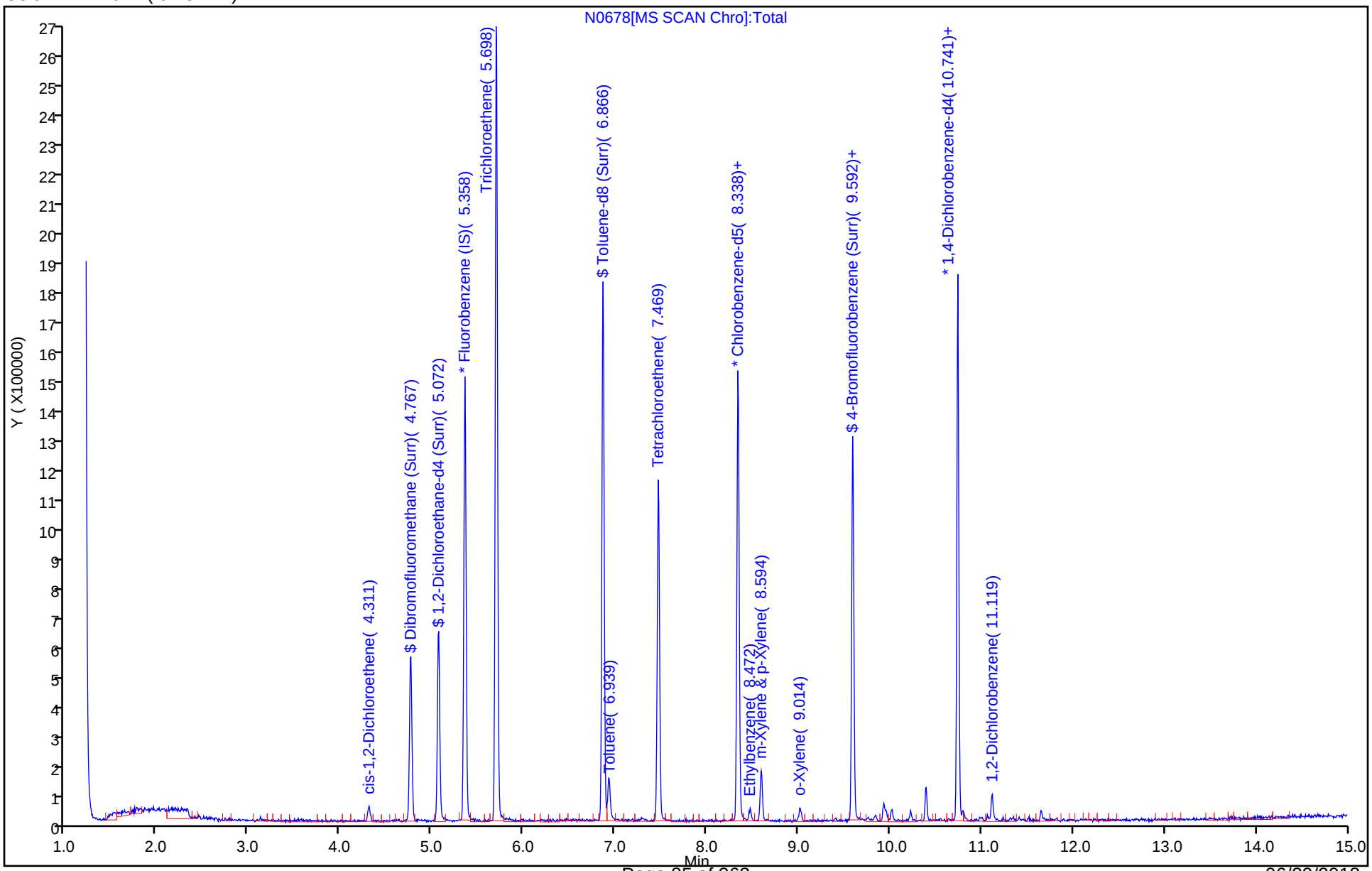
Report Date: 28-Jun-2018 11:00:12 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D

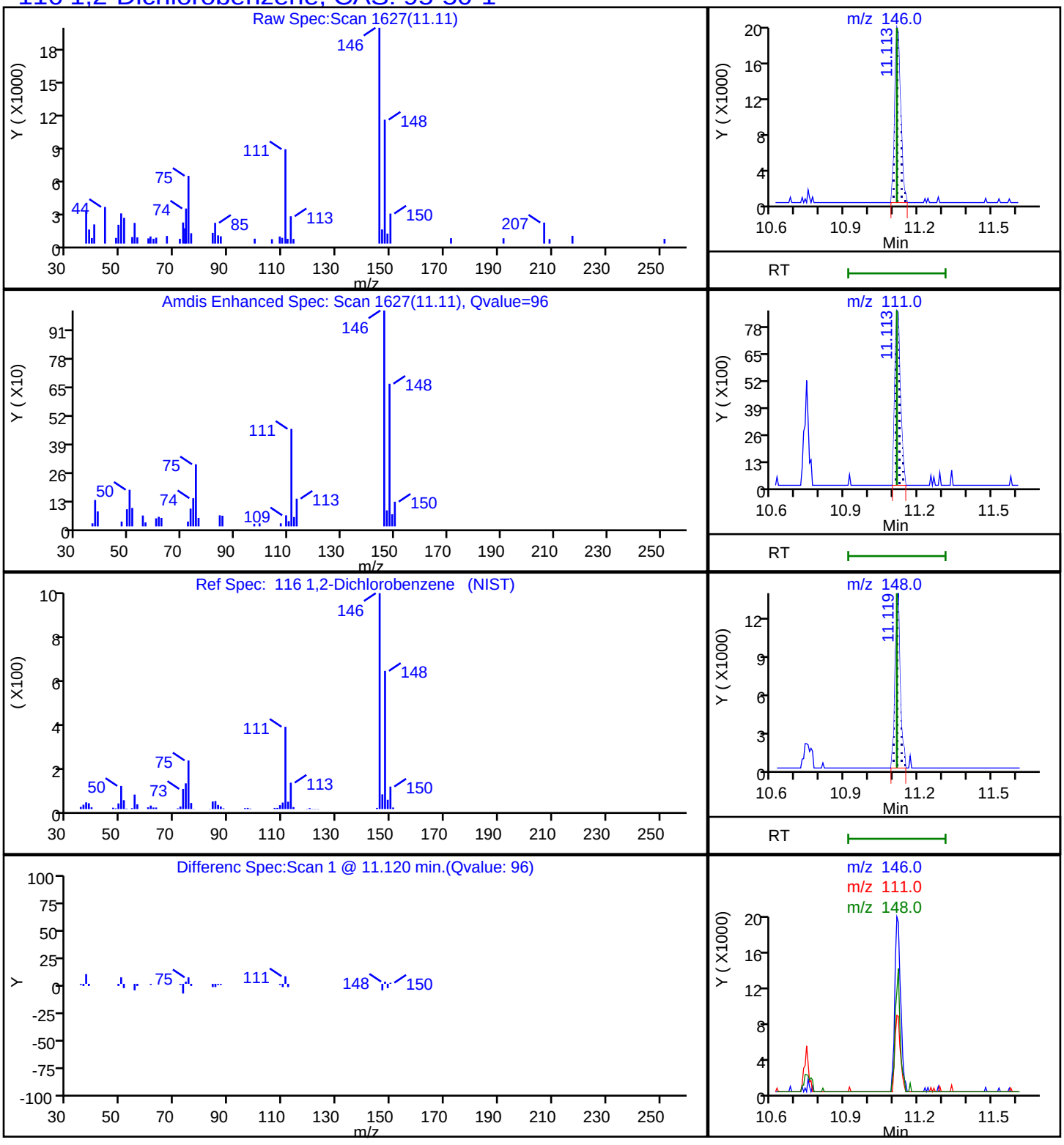
Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4	Worklist Smp#:	11
Client ID:	PDI-7-SO-17-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	11
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



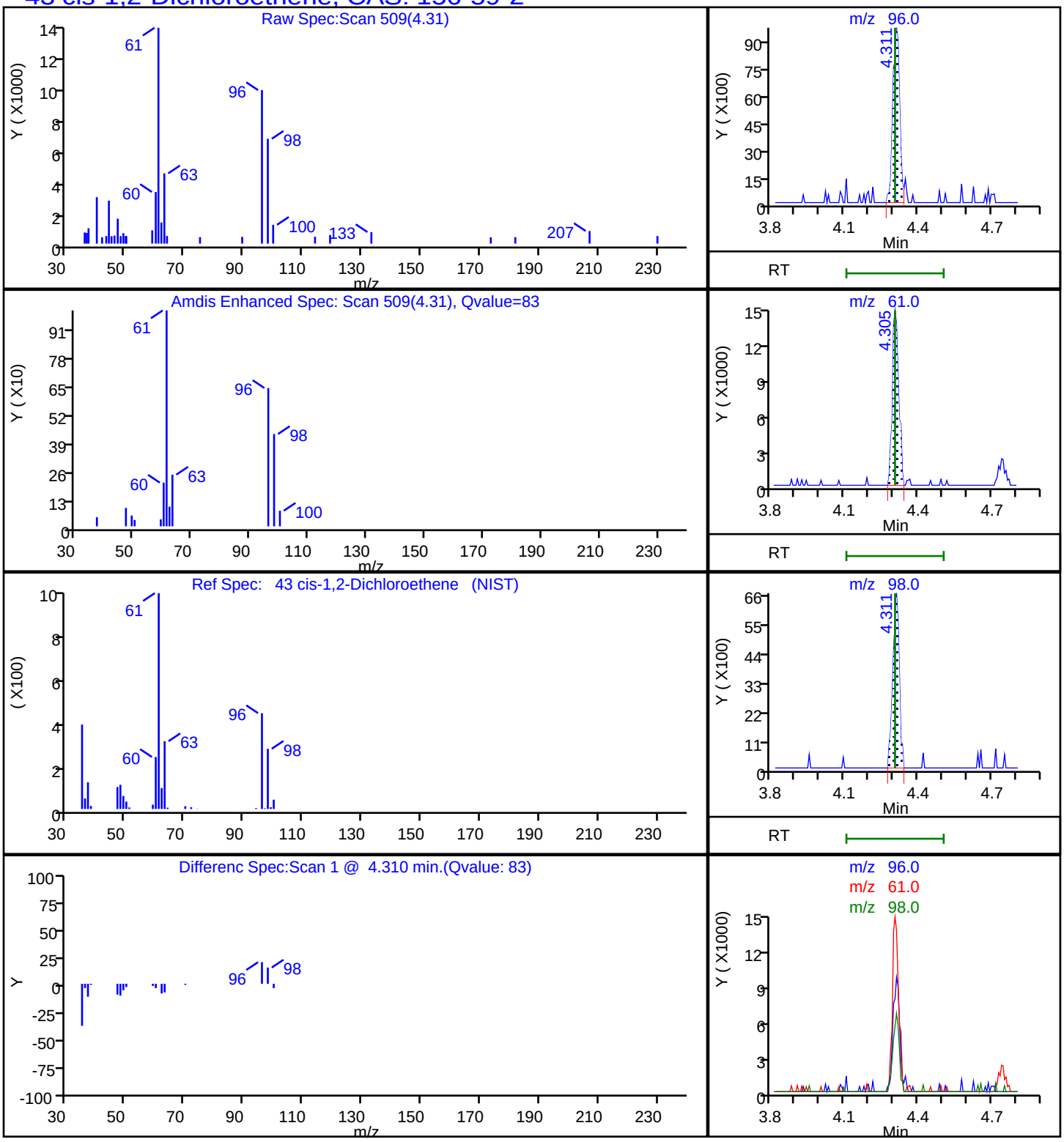
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1



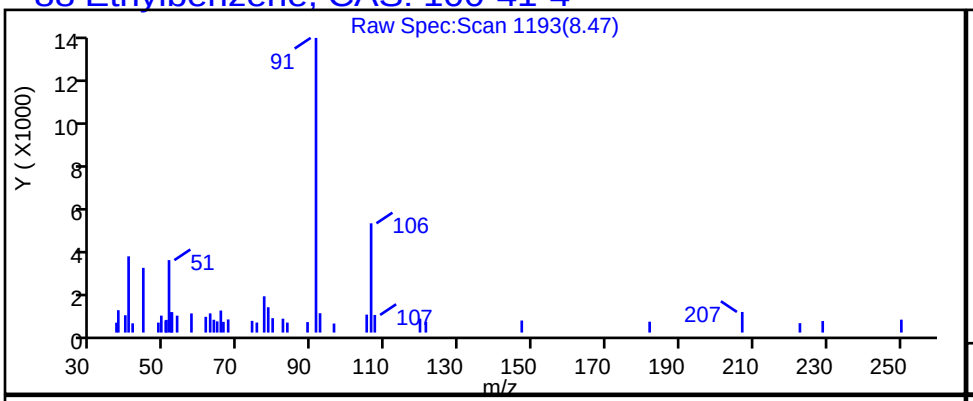
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

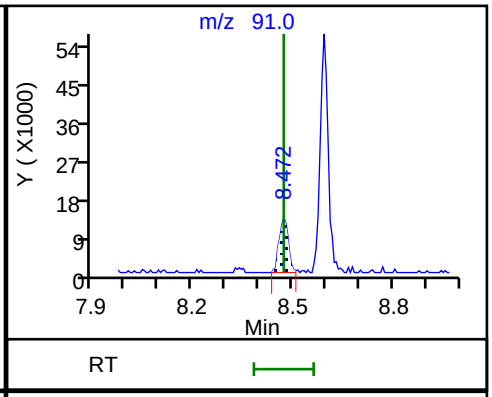
43 cis-1,2-Dichloroethene, CAS: 156-59-2

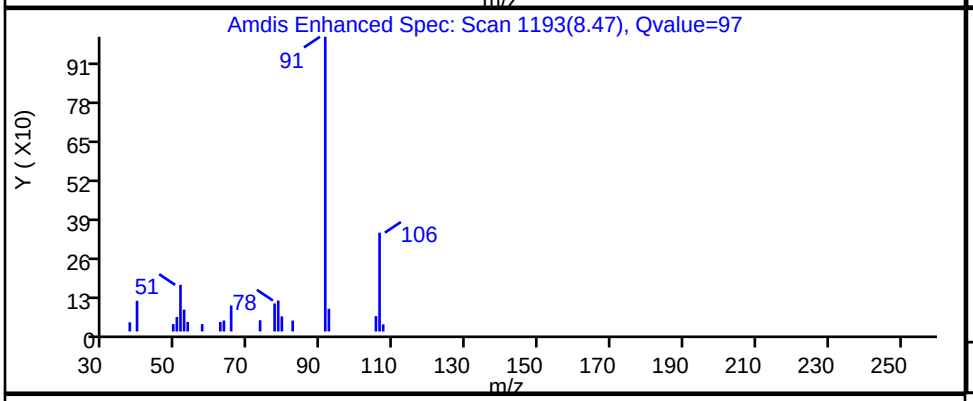


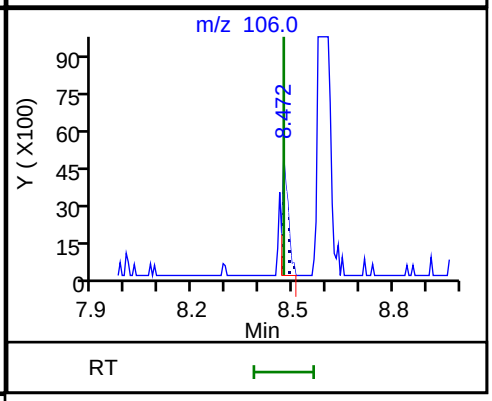
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

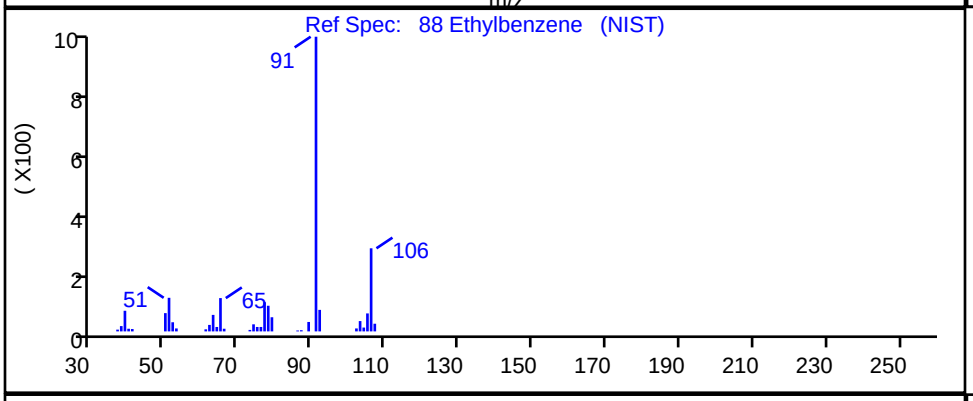
88 Ethylbenzene, CAS: 100-41-4

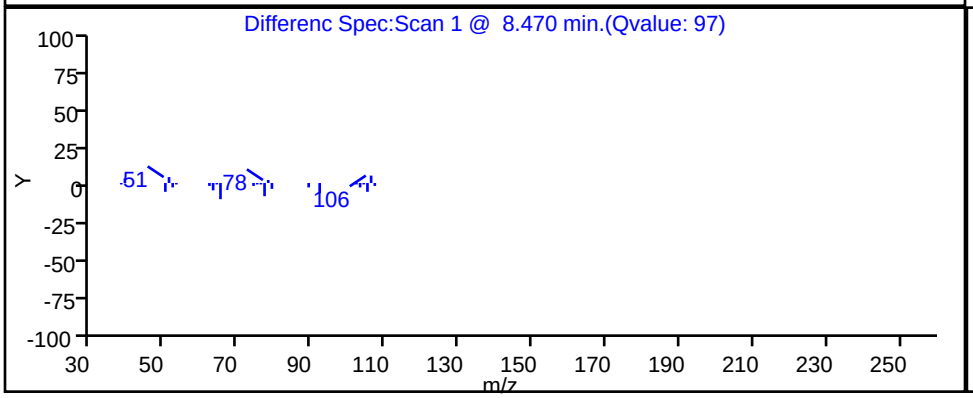


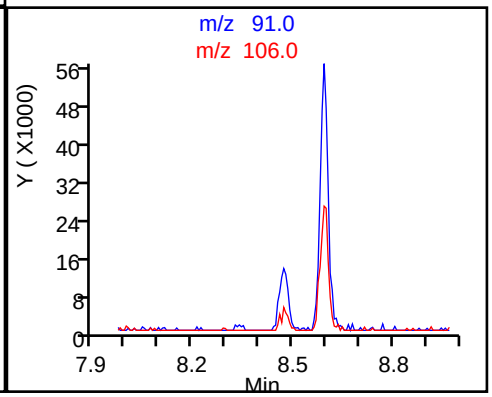






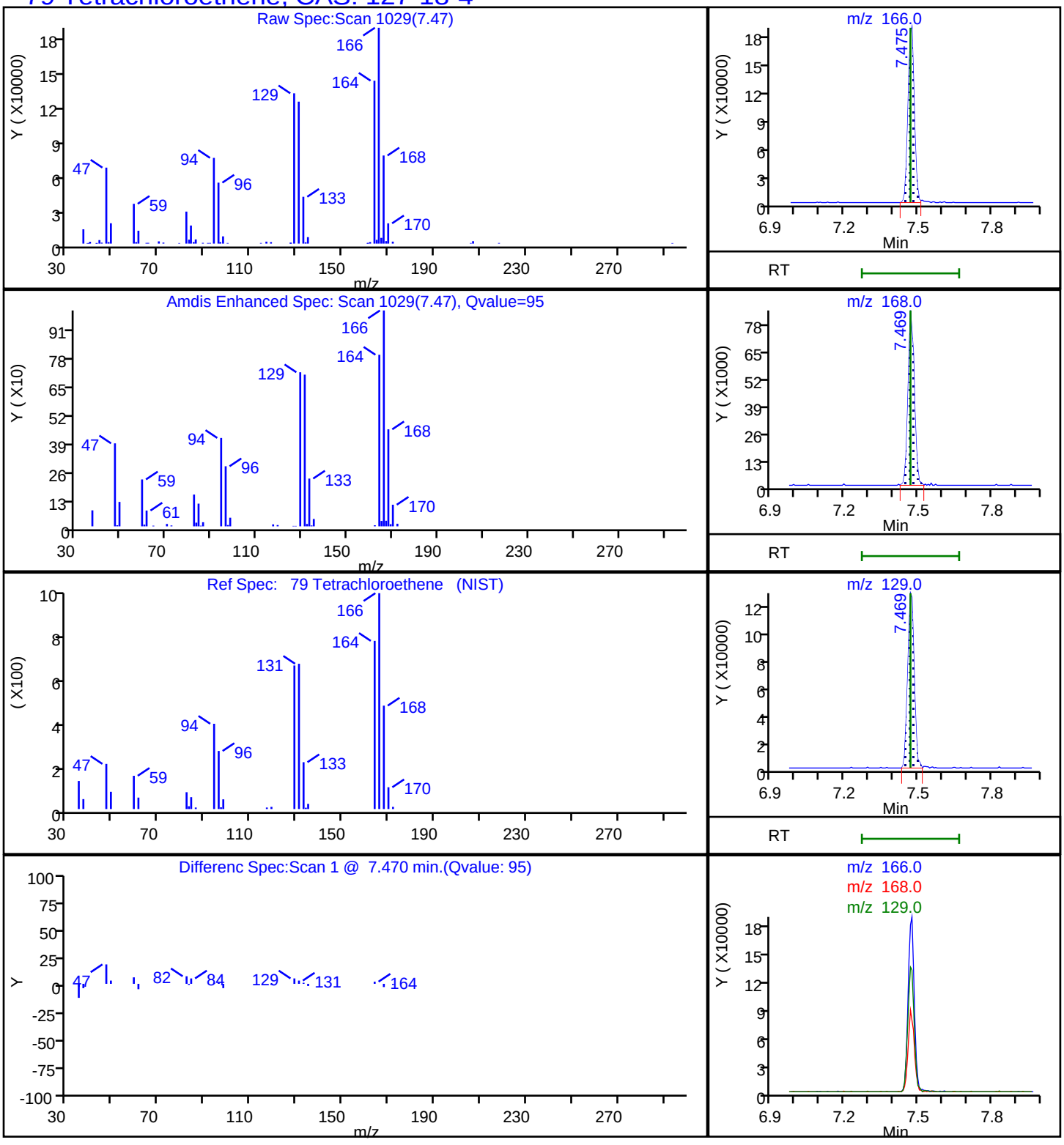






Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

79 Tetrachloroethene, CAS: 127-18-4



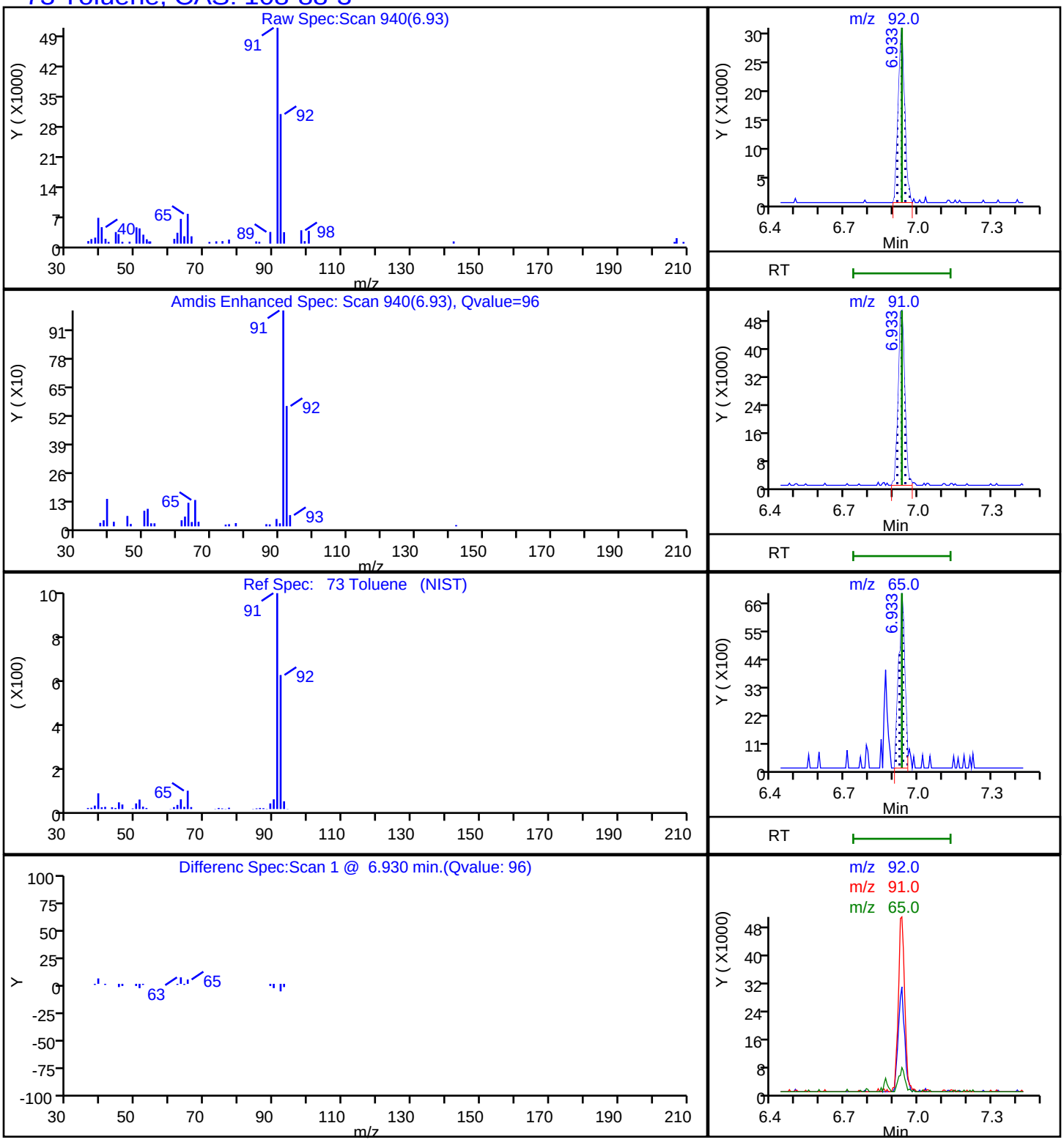
Report Date: 28-Jun-2018 11:00:13 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D

Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4
Client ID:	PDI-7-SO-17-06132018		
Operator ID:	AM	ALS Bottle#:	11 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

73 Toluene, CAS: 108-88-3

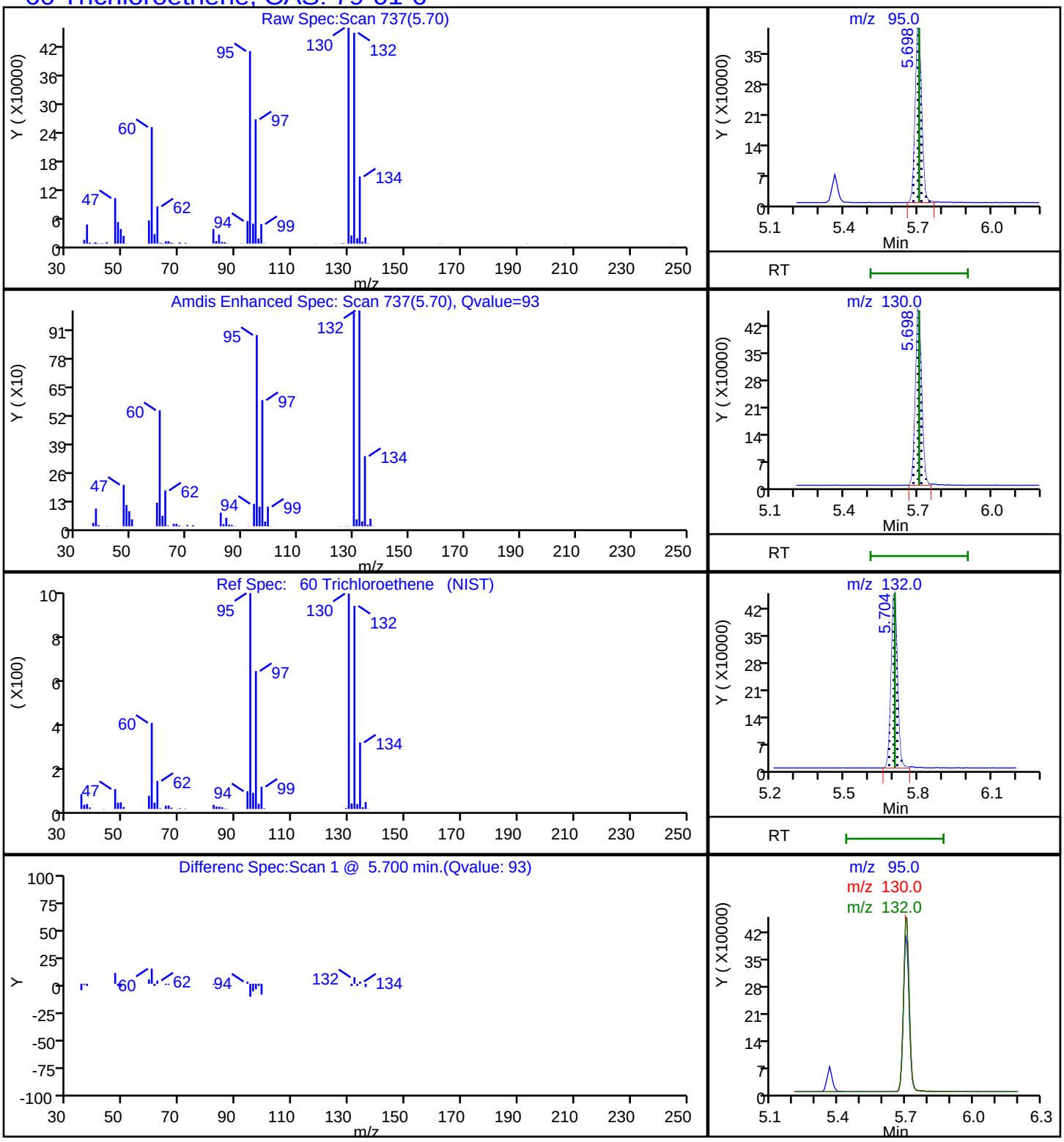


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D

Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4
Client ID:	PDI-7-SO-17-06132018		
Operator ID:	AM	ALS Bottle#:	11 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

60 Trichloroethene, CAS: 79-01-6

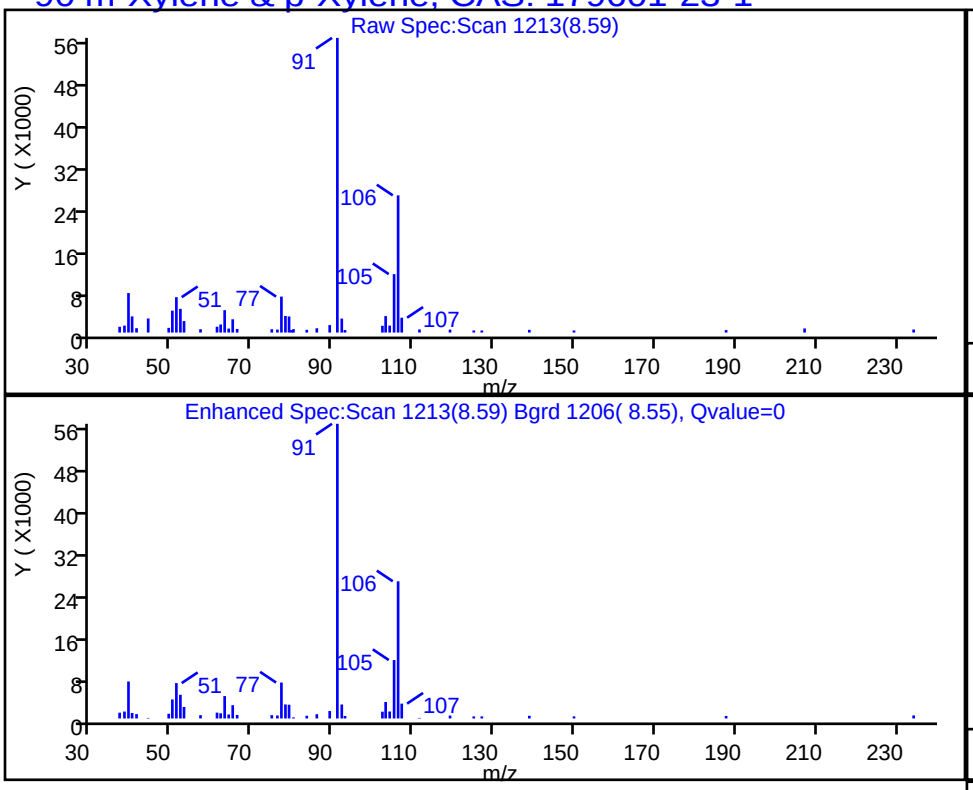


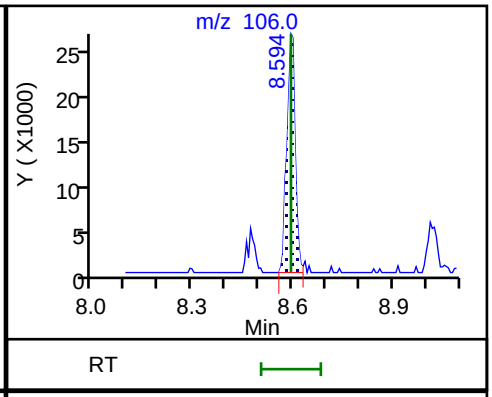
TestAmerica Buffalo

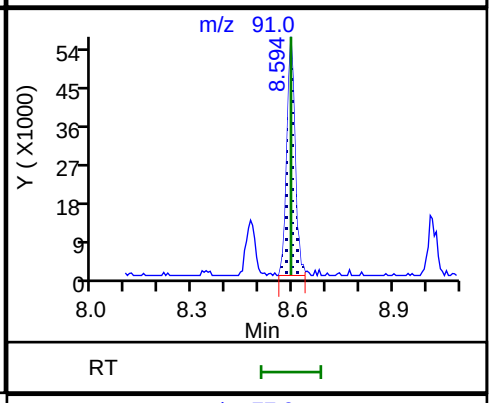
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D

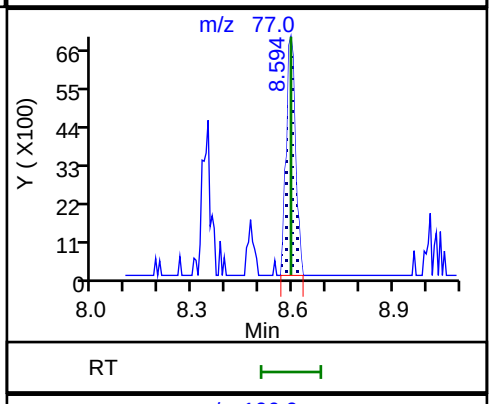
Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N		
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4		
Client ID:	PDI-7-SO-17-06132018				
Operator ID:	AM	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

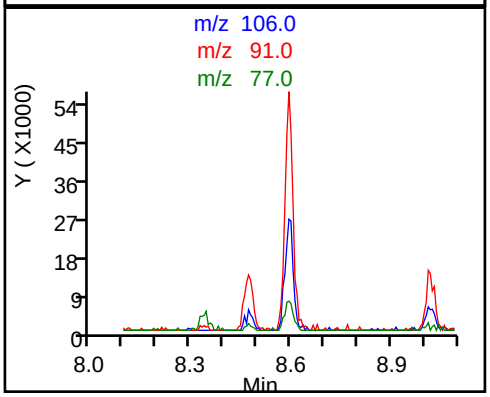
90 m-Xylene & p-Xylene, CAS: 179601-23-1









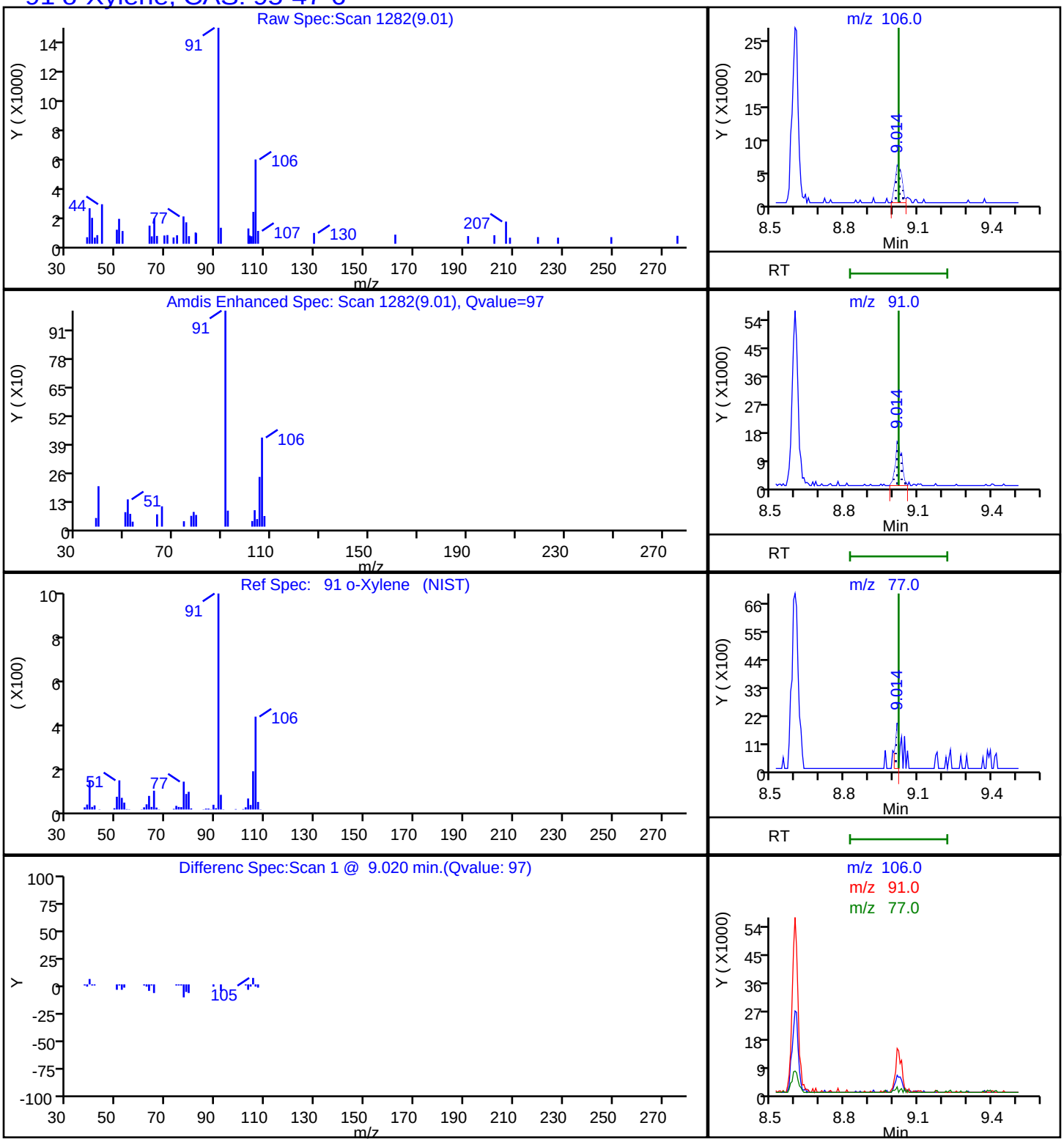


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D

Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4
Client ID:	PDI-7-SO-17-06132018		
Operator ID:	AM	ALS Bottle#:	11 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000
Method:	N-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

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



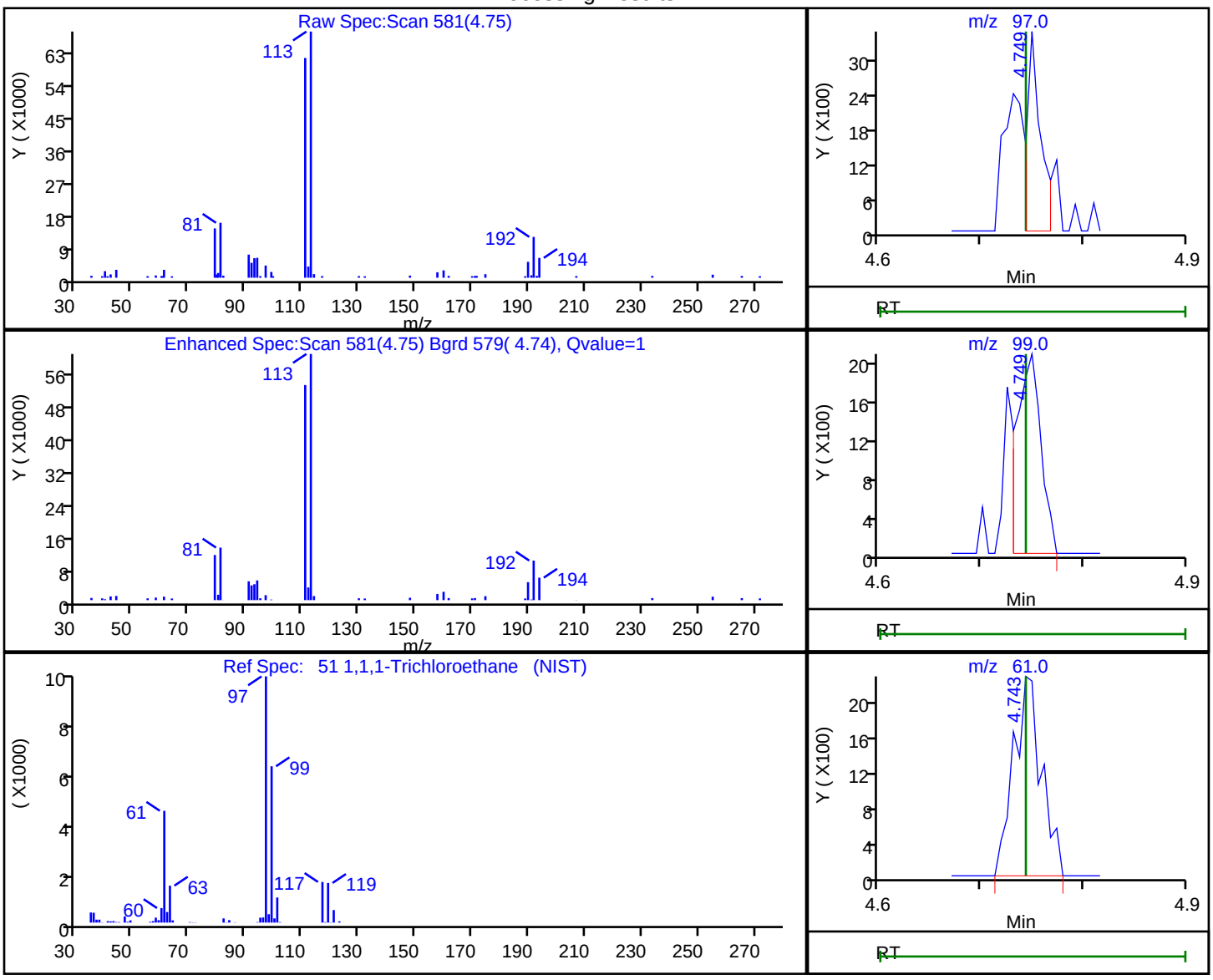
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
4.75	97.00	3234	0.173232
4.75	99.00	3389	
4.74	61.00	4316	

Reviewer: milligana, 18-Jun-2018 17:35:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

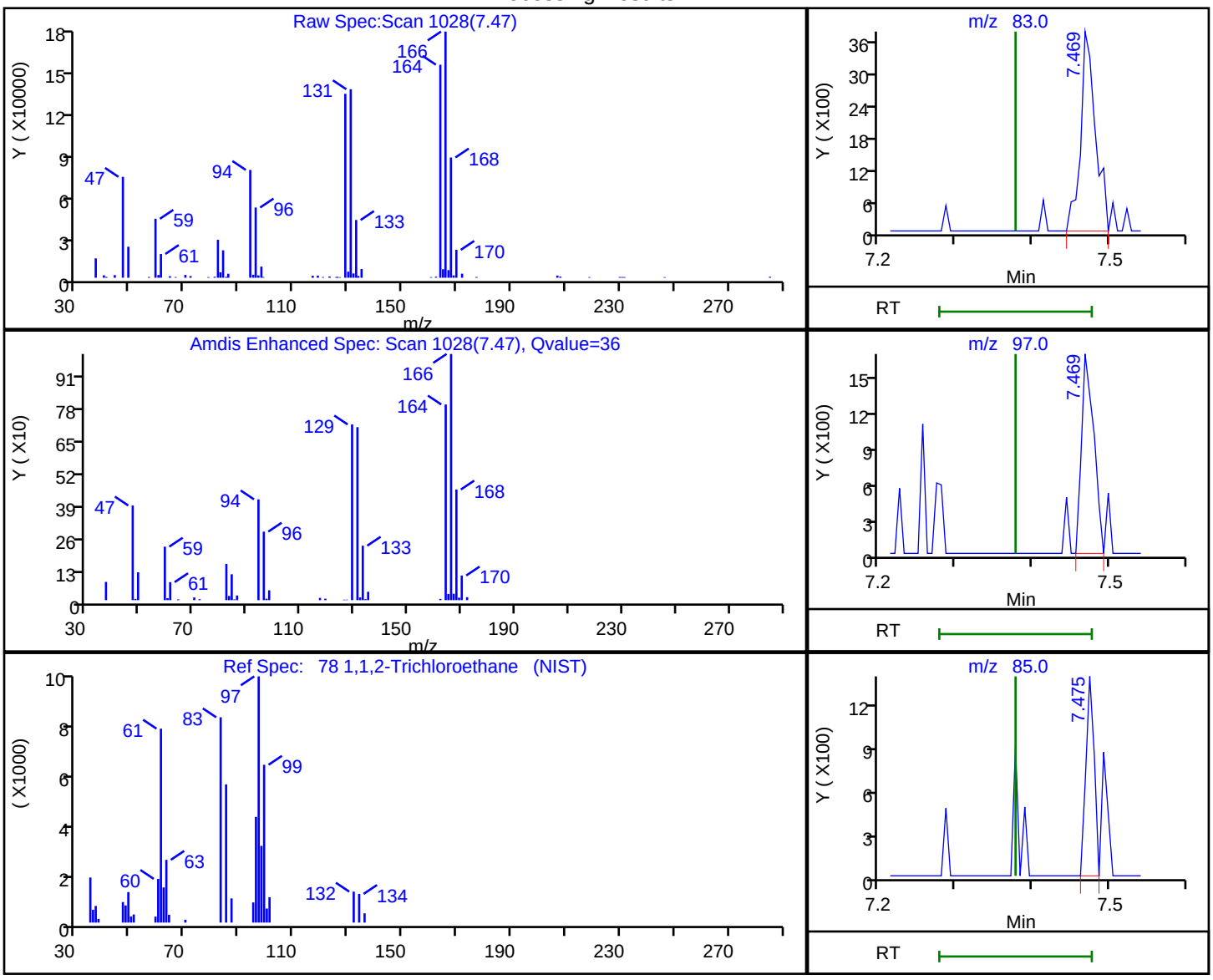
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D				
Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N		
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4		
Client ID:	PDI-7-SO-17-06132018				
Operator ID:	AM	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

78 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.47	83.00	5124	0.573657
7.47	97.00	1825	
7.47	85.00	982	

Reviewer: milligana, 18-Jun-2018 17:36:32

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

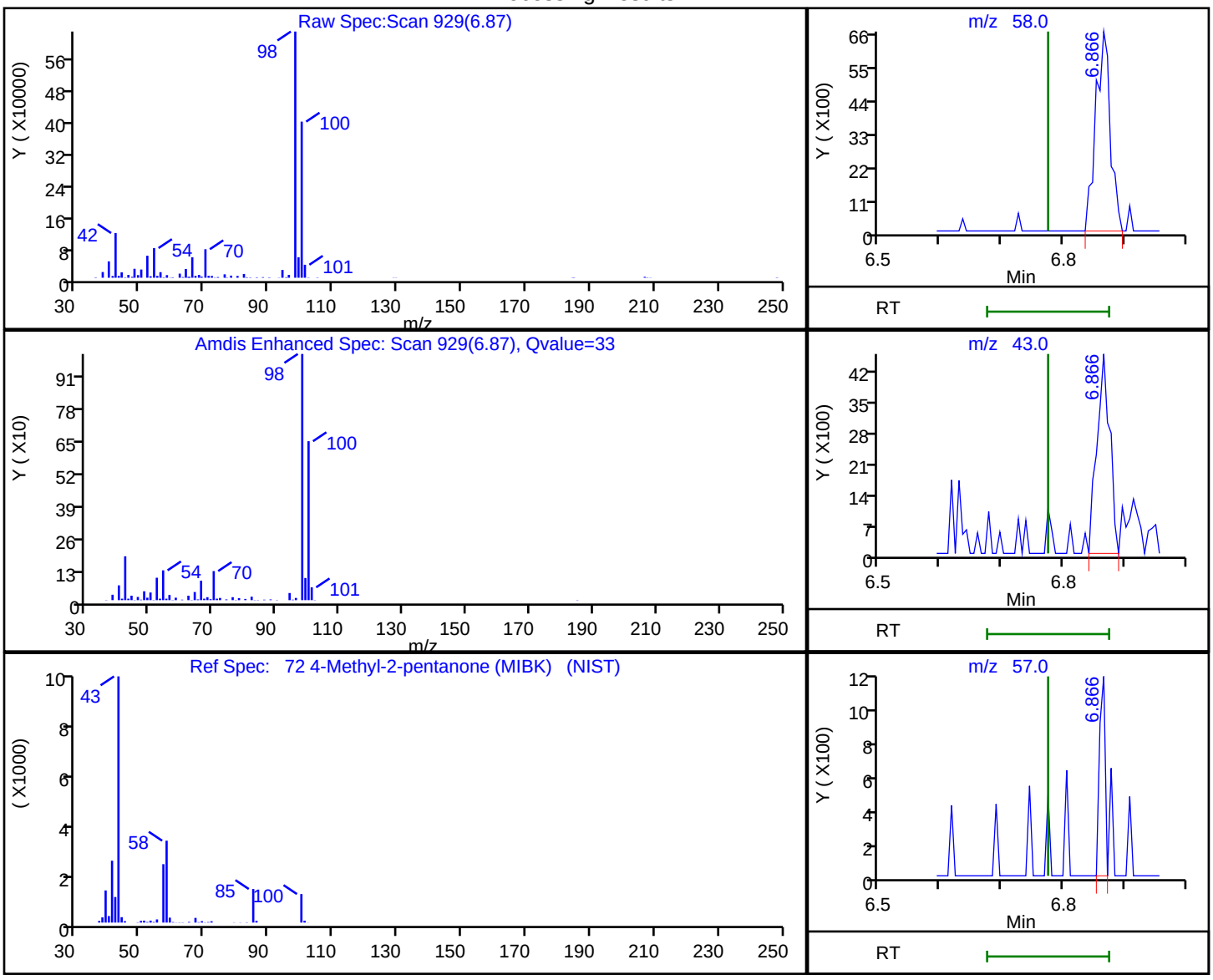
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D
Injection Date: 18-Jun-2018 15:39:30 Instrument ID: HP5973N
Lims ID: 480-137530-B-4-A Lab Sample ID: 480-137530-4
Client ID: PDI-7-SO-17-06132018
Operator ID: AM ALS Bottle#: 11 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.87	58.00	10907	1.670648
6.87	43.00	6655	
6.87	57.00	741	

Reviewer: milligana, 18-Jun-2018 17:36:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

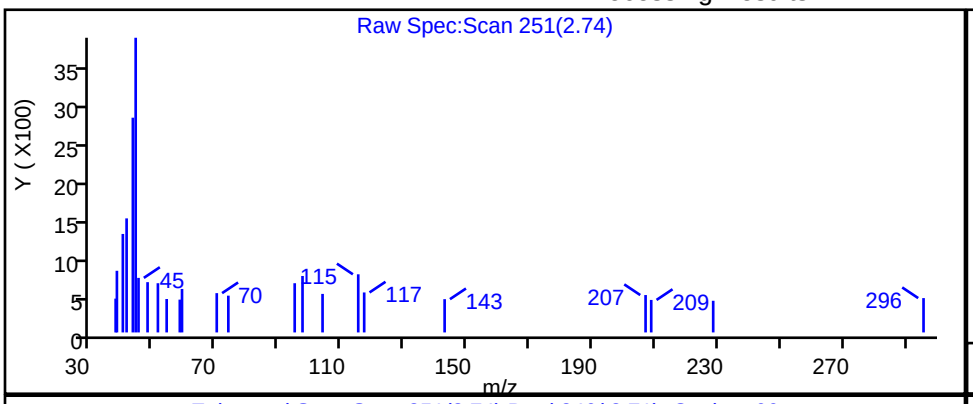
User Disabled Compound Report

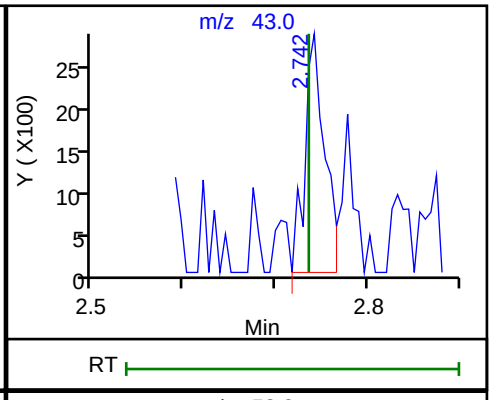
TestAmerica Buffalo

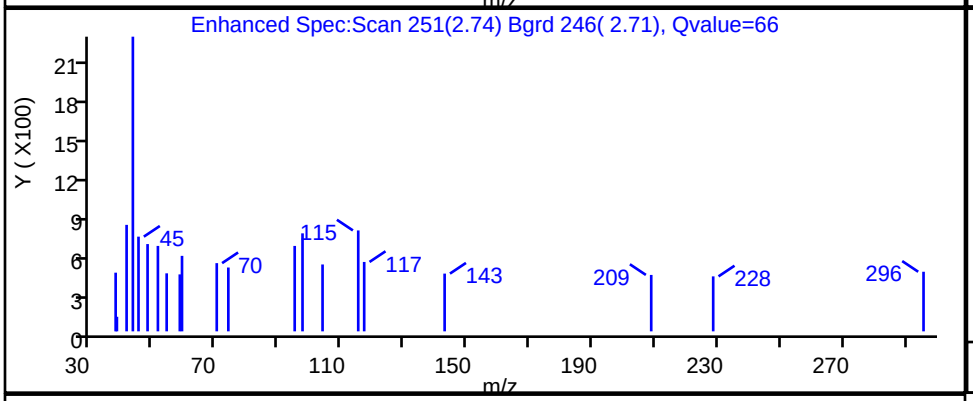
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D				
Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N		
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4		
Client ID:	PDI-7-SO-17-06132018				
Operator ID:	AM	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

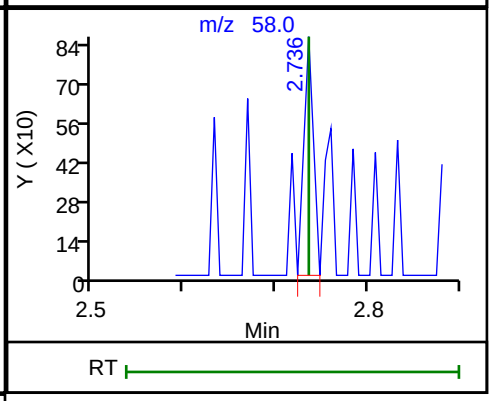
23 Acetone, CAS: 67-64-1

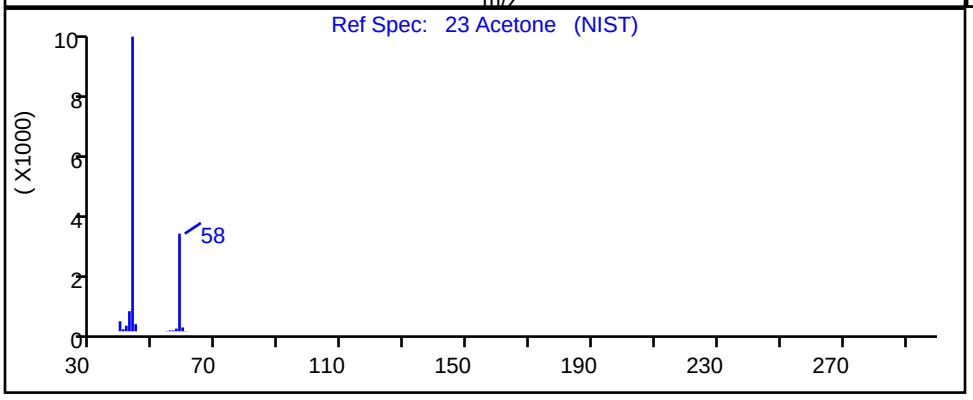
Processing Results











RT	Mass	Response	Amount
2.74	43.00	4238	1.010053
2.74	58.00	633	

Reviewer: milligana, 18-Jun-2018 17:35:34

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

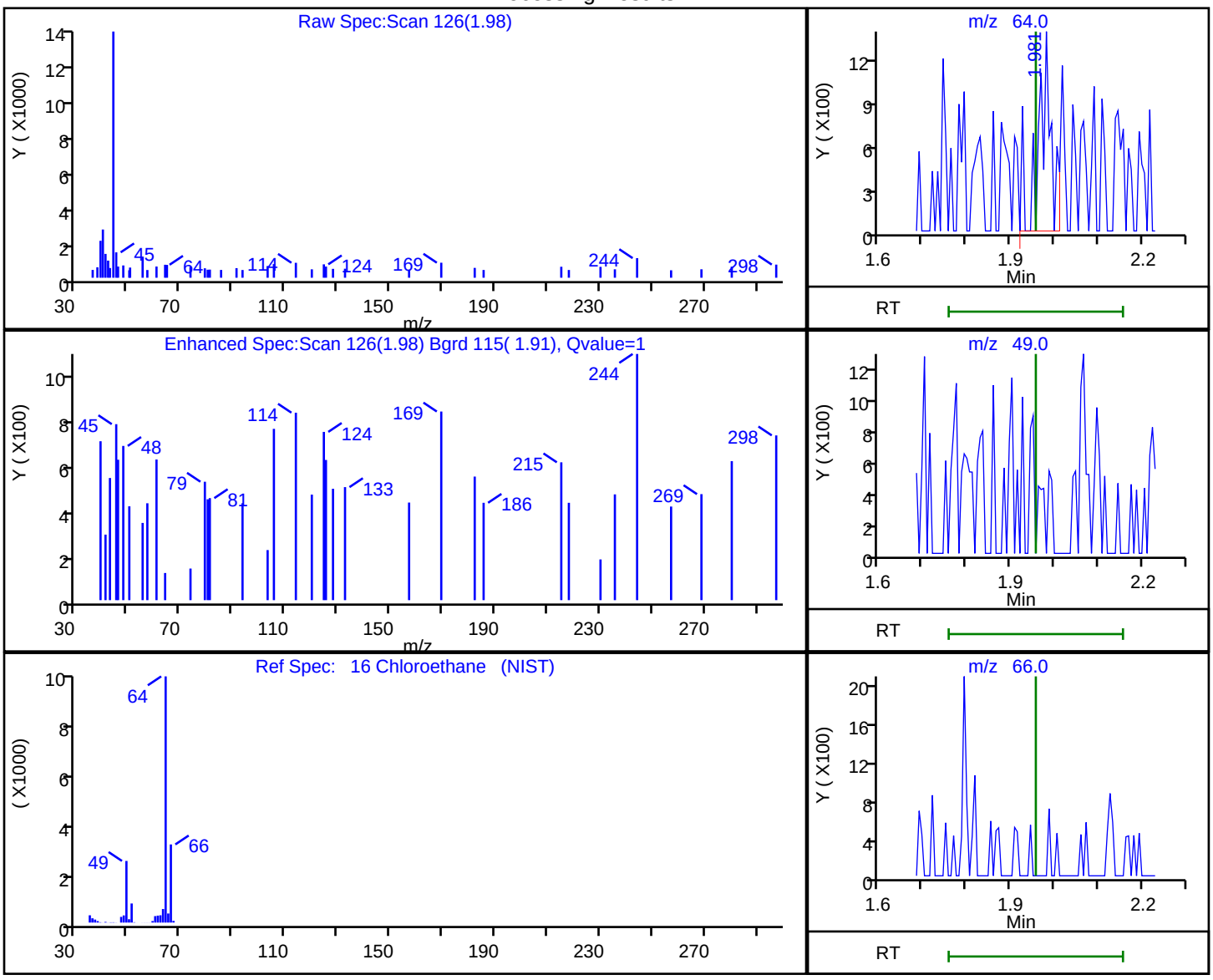
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0678.D				
Injection Date:	18-Jun-2018 15:39:30	Instrument ID:	HP5973N		
Lims ID:	480-137530-B-4-A	Lab Sample ID:	480-137530-4		
Client ID:	PDI-7-SO-17-06132018				
Operator ID:	AM	ALS Bottle#:	11	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	2763	0.376113
1.96	49.00	0	
1.96	66.00	0	

Reviewer: milligana, 18-Jun-2018 17:35:30

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-8-SO-17-061318 | Lab Sample ID: 480-137530-5

Matrix: Solid | Lab File ID: F2869.D

Analysis Method: 8260C | Date Collected: 06/13/2018 10:30

Sample wt/vol: 6.848(g) | Date Analyzed: 06/16/2018 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.4 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H	4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	4.8	0.77
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.8	1.1
79-00-5	1,1,2-Trichloroethane	ND	H	4.8	0.62
75-34-3	1,1-Dichloroethane	ND	H	4.8	0.58
75-35-4	1,1-Dichloroethene	ND	H	4.8	0.58
120-82-1	1,2,4-Trichlorobenzene	ND	H	4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H	4.8	2.4
95-50-1	1,2-Dichlorobenzene	ND	H	4.8	0.37
107-06-2	1,2-Dichloroethane	ND	H	4.8	0.24
78-87-5	1,2-Dichloropropane	ND	H	4.8	2.4
541-73-1	1,3-Dichlorobenzene	ND	H	4.8	0.24
106-46-7	1,4-Dichlorobenzene	ND	H	4.8	0.67
78-93-3	2-Butanone (MEK)	ND	H	24	1.7
591-78-6	2-Hexanone	ND	H	24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H	24	1.6
67-64-1	Acetone	8.1	J H	24	4.0
71-43-2	Benzene	ND	H	4.8	0.23
75-25-2	Bromoform	ND	H	4.8	2.4
74-83-9	Bromomethane	ND	H	4.8	0.43
75-15-0	Carbon disulfide	ND	H	4.8	2.4
56-23-5	Carbon tetrachloride	ND	H	4.8	0.46
108-90-7	Chlorobenzene	ND	H	4.8	0.63
124-48-1	Dibromochloromethane	ND	H	4.8	0.61
75-00-3	Chloroethane	ND	H	4.8	1.1
67-66-3	Chloroform	ND	H	4.8	0.29
74-87-3	Chloromethane	ND	H	4.8	0.29
156-59-2	cis-1,2-Dichloroethene	ND	H	4.8	0.61
110-82-7	Cyclohexane	ND	H	4.8	0.67
75-27-4	Bromodichloromethane	ND	H	4.8	0.64
75-71-8	Dichlorodifluoromethane	ND	H	4.8	0.39
100-41-4	Ethylbenzene	ND	H	4.8	0.33
106-93-4	1,2-Dibromoethane	ND	H	4.8	0.61
98-82-8	Isopropylbenzene	ND	H	4.8	0.72
79-20-9	Methyl acetate	ND	H	24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-8-SO-17-061318 | Lab Sample ID: 480-137530-5

Matrix: Solid | Lab File ID: F2869.D

Analysis Method: 8260C | Date Collected: 06/13/2018 10:30

Sample wt/vol: 6.848(g) | Date Analyzed: 06/16/2018 14:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.4 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	H	4.8	0.47
108-87-2	Methylcyclohexane	ND	H	4.8	0.72
75-09-2	Methylene Chloride	ND	H	4.8	2.2
127-18-4	Tetrachloroethene	ND	H	4.8	0.64
108-88-3	Toluene	ND	H	4.8	0.36
156-60-5	trans-1,2-Dichloroethene	ND	H	4.8	0.49
10061-02-6	trans-1,3-Dichloropropene	ND	H	4.8	2.1
79-01-6	Trichloroethene	ND	H	4.8	1.0
75-69-4	Trichlorofluoromethane	ND	H	4.8	0.45
75-01-4	Vinyl chloride	ND	H	4.8	0.58
1330-20-7	Xylenes, Total	ND	H	9.5	0.80
10061-01-5	cis-1,3-Dichloropropene	ND	H	4.8	0.69
100-42-5	Styrene	ND	H	4.8	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2869.D
Lims ID: 480-137530-D-5-A
Client ID: PDI-8-SO-17-061318
Sample Type: Client
Inject. Date: 16-Jun-2018 14:29:30 ALS Bottle#: 8 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137530-D-5-A
Misc. Info.: 480-0072382-015
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 08:31:35 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 08:31:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	253861	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	536650	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	486806	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.679	0.000	93	310317	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.953	0.007	97	214402	53.2	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1213884	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	395648	47.3	
10 Dichlorodifluoromethane	85		1.802				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.070				ND	
14 Bromomethane	94		2.356				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952				ND	
22 1,1-Dichloroethene	96		2.976				ND	
23 Acetone	43	3.037	3.031	0.006	99	22646	8.50	
26 Carbon disulfide	76		3.183				ND	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96		4.303				ND	
50 Chloroform	83		4.540				ND	
51 1,1,1-Trichloroethane	97		4.680				ND	
52 Cyclohexane	56		4.704				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.978				ND	
58 1,2-Dichloroethane	62		5.014				ND	
62 Trichloroethene	95	5.501	5.495	0.006	97	5919	0.7589	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.629				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.951				ND	
72 cis-1,3-Dichloropropene	75		6.328				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92	6.621	6.620	0.001	97	3902	0.2030	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166		7.137				ND	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106	8.208	8.202	0.006	97	6250	0.4297	
91 o-Xylene	106		8.628				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1				0		0.4297	

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

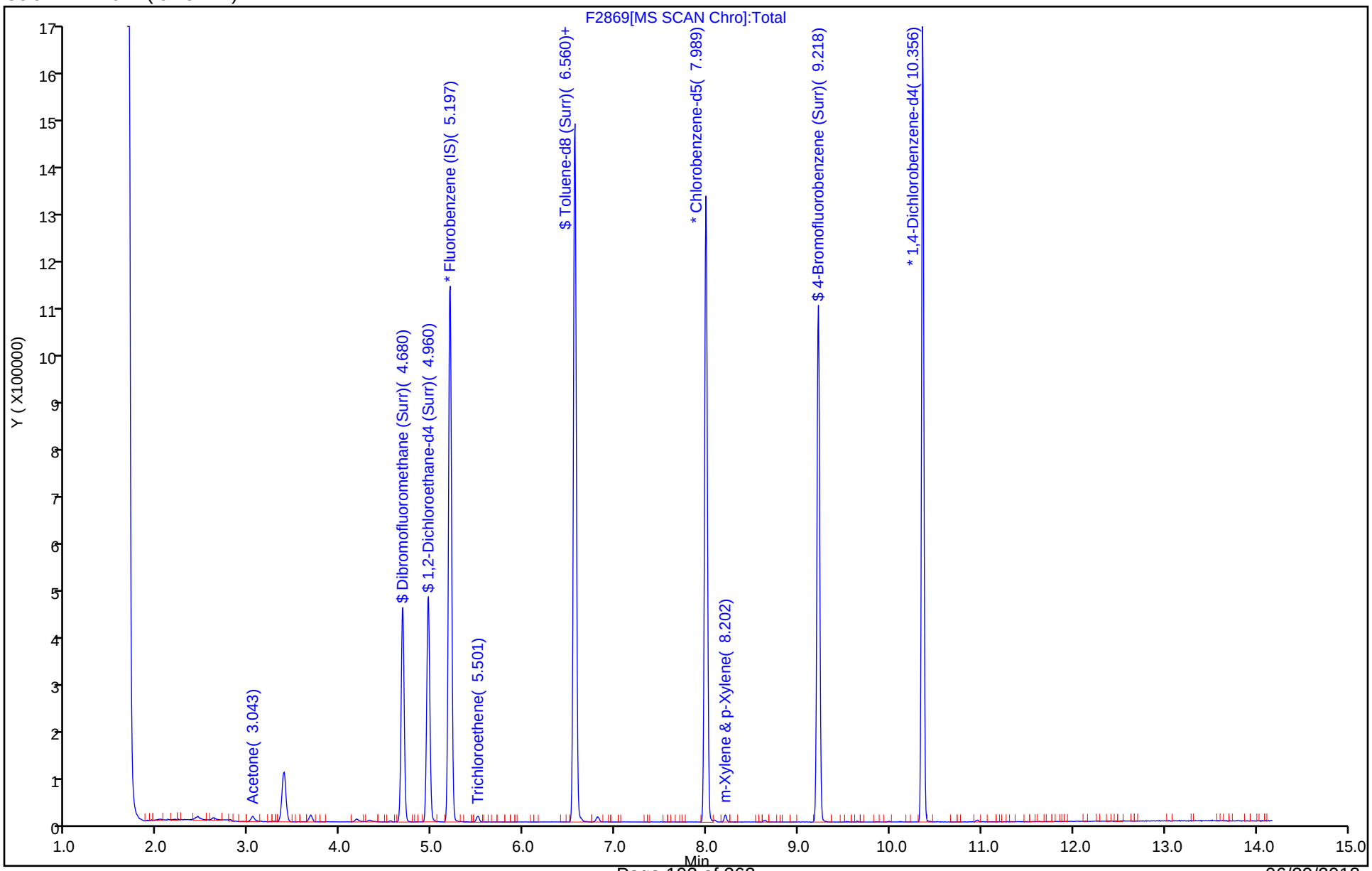
Report Date: 18-Jun-2018 08:31:39 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2869.D

Injection Date:	16-Jun-2018 14:29:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137530-D-5-A	Lab Sample ID:	480-137530-5	Worklist Smp#:	15
Client ID:	PDI-8-SO-17-061318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

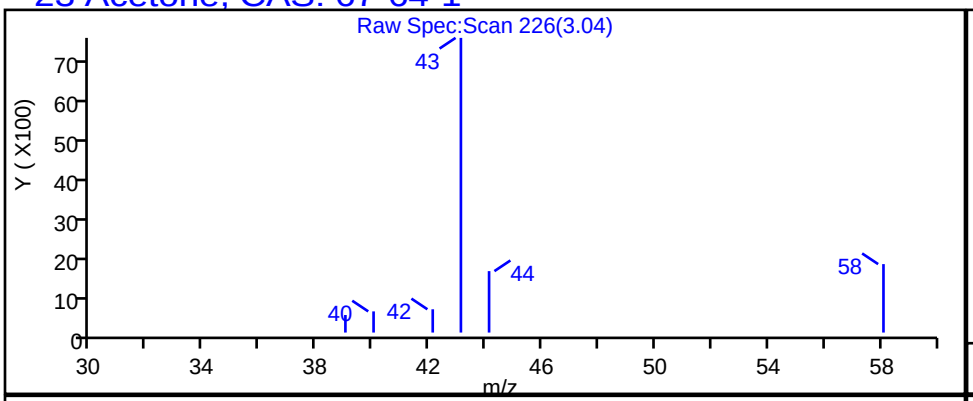


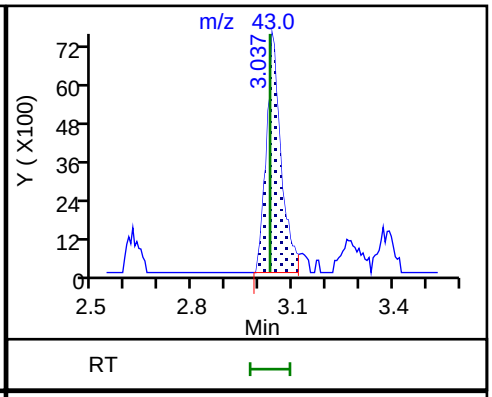
TestAmerica Buffalo

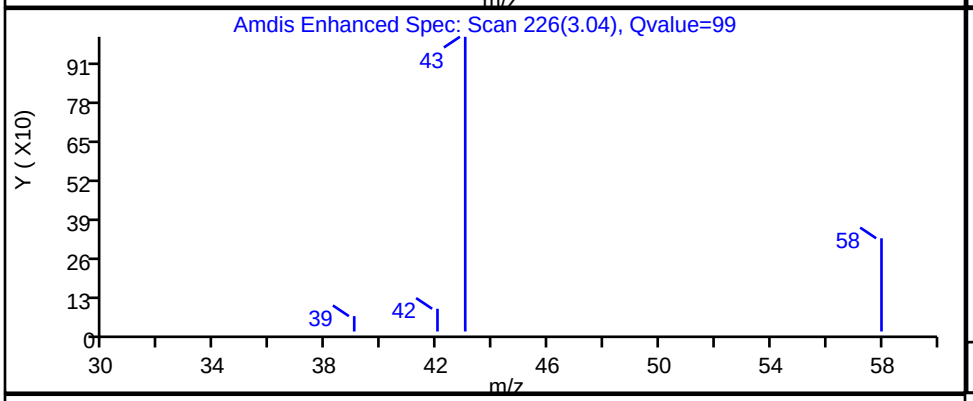
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2869.D

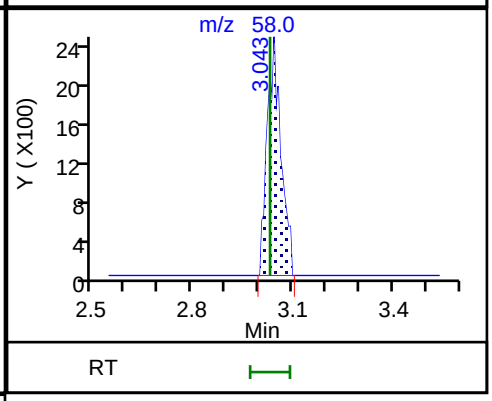
Injection Date:	16-Jun-2018 14:29:30	Instrument ID:	HP5973F
Lims ID:	480-137530-D-5-A	Lab Sample ID:	480-137530-5
Client ID:	PDI-8-SO-17-061318		
Operator ID:	AM	ALS Bottle#:	8 Worklist Smp#: 15
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

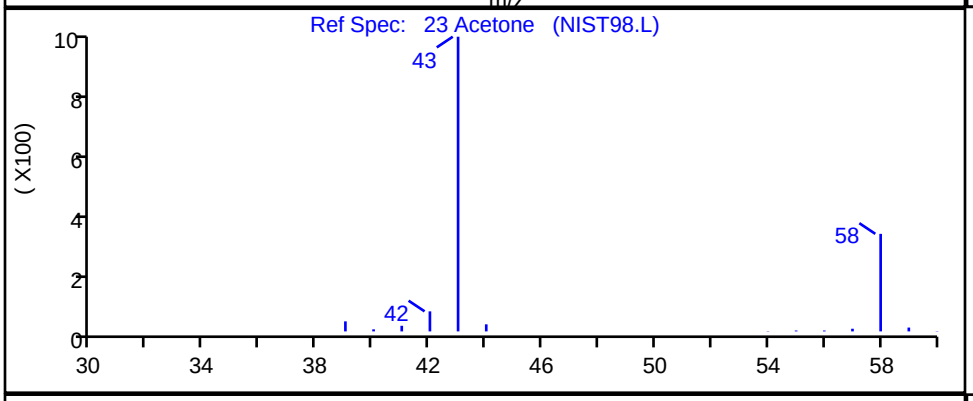
23 Acetone, CAS: 67-64-1

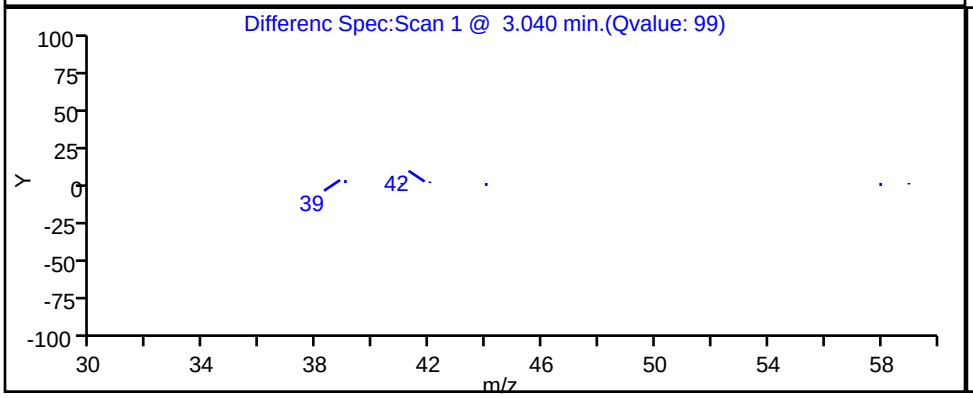


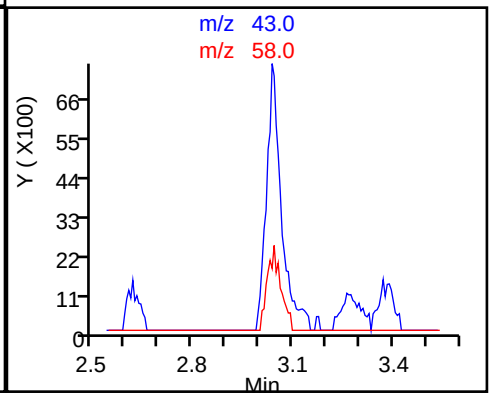












FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-9-SO-17-061318 | Lab Sample ID: 480-137530-6

Matrix: Solid | Lab File ID: F2870.D

Analysis Method: 8260C | Date Collected: 06/13/2018 11:40

Sample wt/vol: 7.035(g) | Date Analyzed: 06/16/2018 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.6	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.6	0.74
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.56
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.6	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND		4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.64
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	17	J	23	3.9
71-43-2	Benzene	ND		4.6	0.22
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.41
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND		4.6	0.44
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND		4.6	0.28
74-87-3	Chloromethane	ND		4.6	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.6	0.59
110-82-7	Cyclohexane	ND		4.6	0.64
75-27-4	Bromodichloromethane	ND		4.6	0.61
75-71-8	Dichlorodifluoromethane	ND		4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
106-93-4	1,2-Dibromoethane	ND		4.6	0.59
98-82-8	Isopropylbenzene	ND		4.6	0.69
79-20-9	Methyl acetate	ND		23	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-9-SO-17-061318 | Lab Sample ID: 480-137530-6

Matrix: Solid | Lab File ID: F2870.D

Analysis Method: 8260C | Date Collected: 06/13/2018 11:40

Sample wt/vol: 7.035(g) | Date Analyzed: 06/16/2018 14:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.5 | Level: (low/med) Low

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	ND		4.6	2.1
127-18-4	Tetrachloroethene	ND		4.6	0.62
108-88-3	Toluene	ND		4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.47
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	ND		4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.43
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.2	0.77
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.66
100-42-5	Styrene	ND		4.6	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		64-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2870.D
Lims ID: 480-137530-C-6-A
Client ID: PDI-9-SO-17-061318
Sample Type: Client
Inject. Date: 16-Jun-2018 14:55:30 ALS Bottle#: 9 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137530-C-6-A
Misc. Info.: 480-0072382-016
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 08:32:26 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 08:32:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	241604	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	510989	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	458320	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.679	0.000	93	292924	49.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.953	4.953	0.000	97	199344	52.0	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1158375	49.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	371198	46.6	
10 Dichlorodifluoromethane	85		1.802				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.070				ND	
14 Bromomethane	94		2.356				ND	
15 Chloroethane	64		2.411				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952				ND	
22 1,1-Dichloroethene	96		2.976				ND	
23 Acetone	43	3.037	3.031	0.006	100	46862	18.5	
26 Carbon disulfide	76		3.183				ND	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96		4.303				ND	
50 Chloroform	83		4.540				ND	
51 1,1,1-Trichloroethane	97		4.680				ND	
52 Cyclohexane	56		4.704				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.978				ND	
58 1,2-Dichloroethane	62		5.014				ND	
62 Trichloroethene	95	5.501	5.495	0.006	95	6252	0.8422	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.629				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.951				ND	
72 cis-1,3-Dichloropropene	75		6.328				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92		6.620				ND	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.137	7.137	0.000	91	3613	0.4388	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106	8.208	8.202	0.006	98	6166	0.4452	
91 o-Xylene	106		8.628				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1				0		0.4452	

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

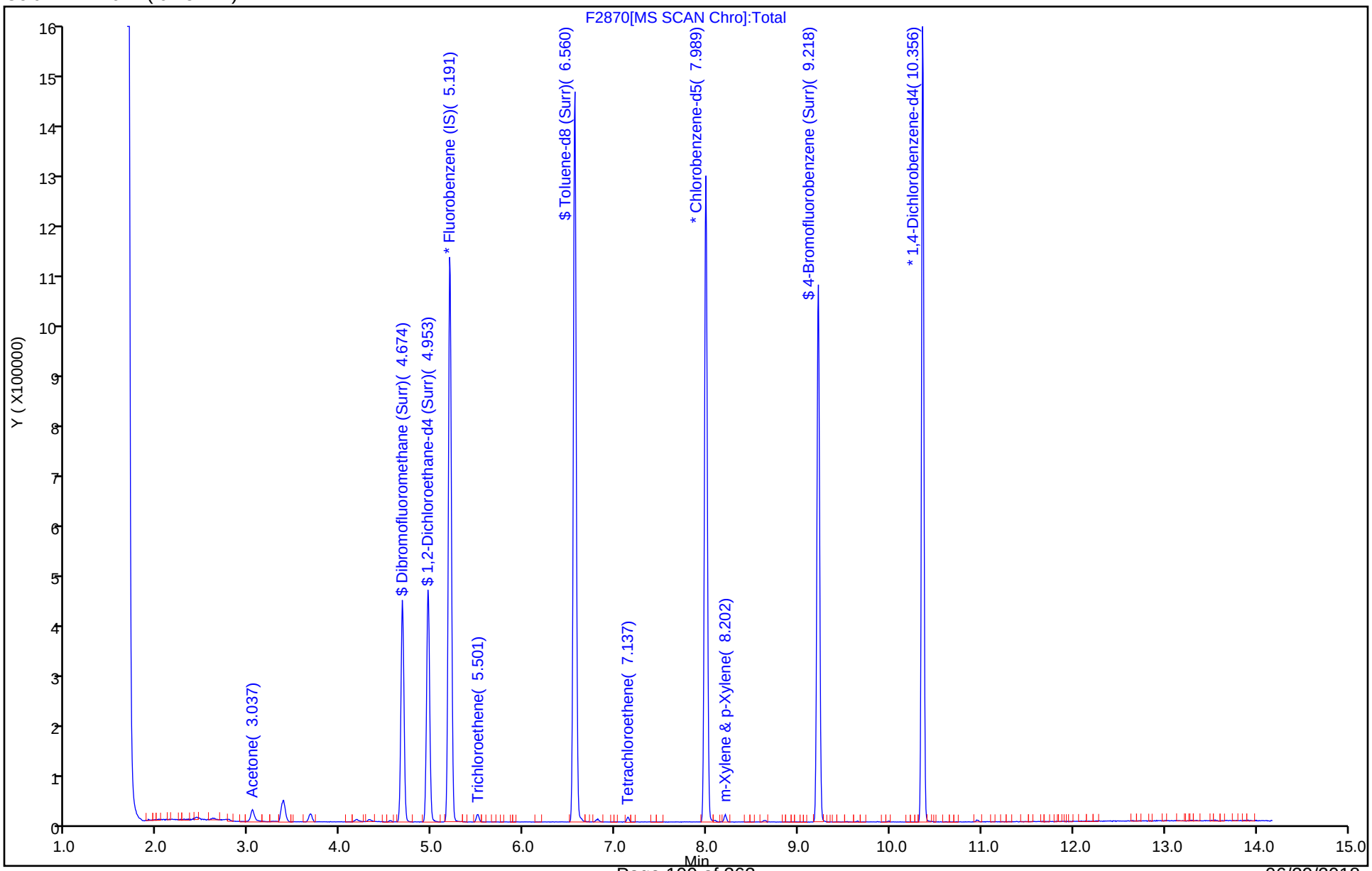
Report Date: 18-Jun-2018 08:32:29 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2870.D

Injection Date:	16-Jun-2018 14:55:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137530-C-6-A	Lab Sample ID:	480-137530-6	Worklist Smp#:	16
Client ID:	PDI-9-SO-17-061318				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

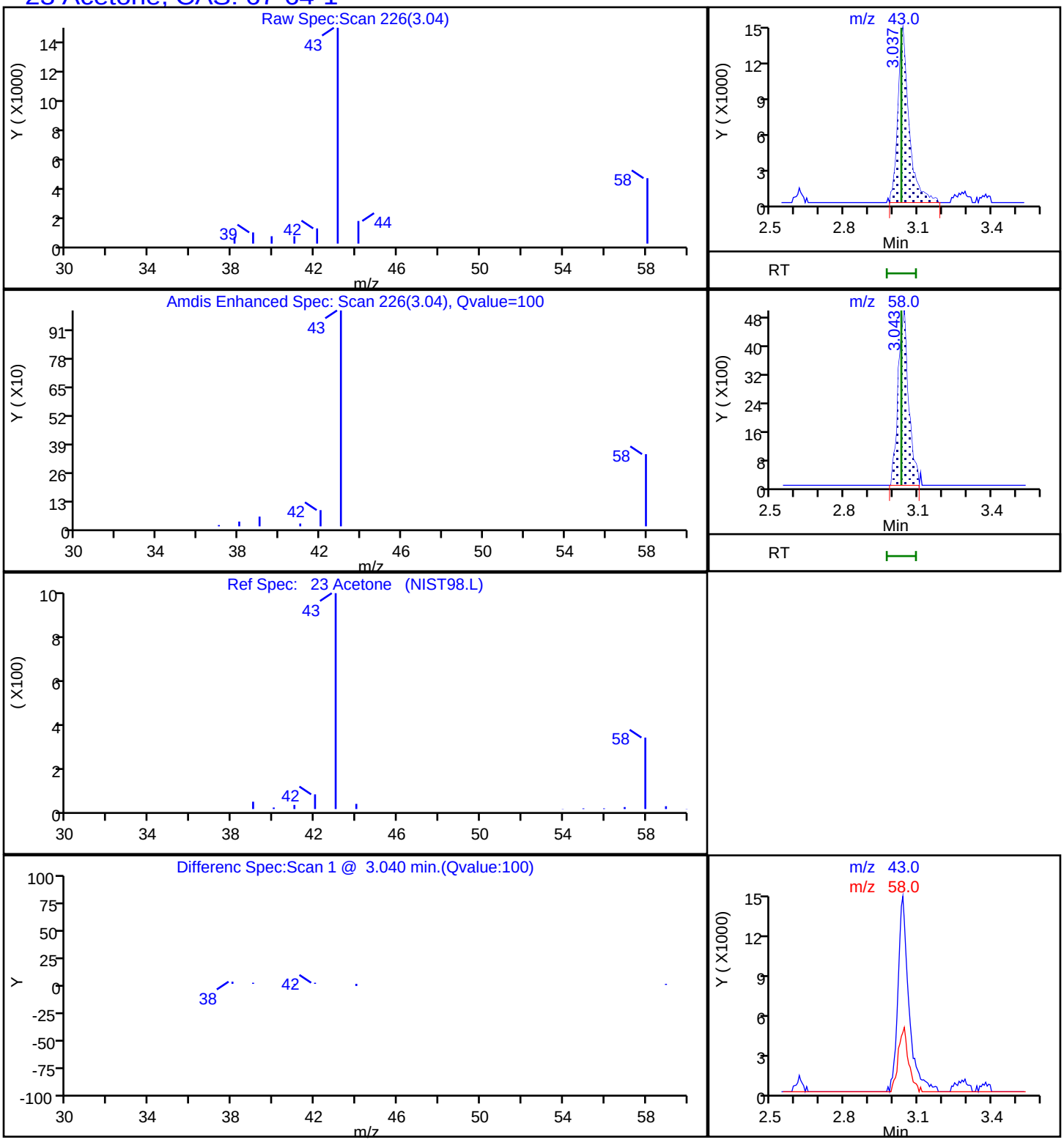


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2870.D

Injection Date:	16-Jun-2018 14:55:30	Instrument ID:	HP5973F
Lims ID:	480-137530-C-6-A	Lab Sample ID:	480-137530-6
Client ID:	PDI-9-SO-17-061318		
Operator ID:	AM	ALS Bottle#:	9 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.4747 1.5126	1.5929 1.4319	1.7816	1.6637	1.5955	Ave		1.5790			0.1000	7.6		20.0			
Chloromethane	1.3439 1.1847	1.3750 1.1272	1.4011	1.3402	1.2423	Ave		1.2878			0.1000	8.1		20.0			
Vinyl chloride	1.2491 1.1469	1.3474 1.1182	1.4288	1.3136	1.2262	Ave		1.2615			0.1000	8.8		20.0			
Butadiene	1.5366 1.2002	1.5098 1.1496	1.6099	1.4740	1.3333	Ave		1.4019				12.6		20.0			
Bromomethane	0.7649 0.6160	0.7835 0.6341	0.7838	0.7278	0.6732	Ave		0.7119			0.1000	10.0		20.0			
Chloroethane	0.6278 0.4814	0.6275 0.4988	0.6307	0.5878	0.5386	Ave		0.5704			0.1000	11.2		20.0			
Dichlorofluoromethane	1.5656 1.3690	1.6037 1.3372	1.7963	1.5889	1.4923	Ave		1.5362				10.1		20.0			
Trichlorofluoromethane	1.6647 1.4955	1.7900 1.4681	1.8430	1.7296	1.6485	Ave		1.6628			0.1000	8.5		20.0			
Ethyl ether	+++++ 0.8527	1.1181 0.8824	1.0084	1.0434	0.8833	Ave		0.9647				11.1		20.0			
Acrolein	+++++ 0.2583	0.2679 0.2320	0.2685	0.2754	0.2244	Ave		0.2544				8.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2962 1.2350	1.3003 1.1690	1.4585	1.3695	1.2673	Ave		1.2994			0.1000	7.2		20.0			
1,1-Dichloroethene	1.3223 1.2050	1.3331 1.1478	1.4209	1.3551	1.2469	Ave		1.2901			0.1000	7.3		20.0			
Acetone	0.5589 0.5388	0.5196 0.4675	0.5652	0.5683	0.4552	Ave		0.5248			0.1000	8.9		20.0			
Iodomethane	2.2915 2.2413	2.3058 2.1269	2.5175	2.4118	2.2857	Ave		2.3115				5.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.0846 4.0140	4.1951 3.7611	4.5777	4.3856	4.1710	Ave		4.1699			0.1000	6.3		20.0			
Allyl chloride	2.1178 1.9555	2.1274 1.8329	2.2525	2.1229	2.0376	Ave		2.0638				6.6		20.0			
Methyl acetate	1.0023 1.0384	0.9318 0.9267	0.9946	1.0584	0.9032	Ave		0.9793			0.1000	6.1		20.0			
Methylene Chloride	+++++ 1.4716	2.7507 1.3822	2.2308	1.8197	1.5337	Lin1	7.7627	1.3667			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1453 0.1741	0.1488 0.1429	0.1627	0.1680	0.1301	Ave		0.1531				10.2		20.0			
Methyl tert-butyl ether	4.6040 4.4851	4.5687 4.0658	4.7965	4.6946	4.2841	Ave		4.4999			0.1000	5.6		20.0			
trans-1,2-Dichloroethene	1.5356 1.4126	1.5672 1.3430	1.5913	1.5075	1.4411	Ave		1.4855			0.1000	6.0		20.0			
Acrylonitrile	0.5267 0.5040	0.4858 0.4331	0.5154	0.5324	0.4473	Ave		0.4921				7.9		20.0			
Hexane	+++++ 2.1502	2.6178 2.0414	2.5897	2.3890	2.2554	Ave		2.3406				10.0		20.0			
Vinyl acetate	2.8183 2.7768	2.7444 2.4042	2.8844	2.9177	2.6669	Ave		2.7447				6.3		20.0			
1,1-Dichloroethane	2.5793 2.4366	2.6671 2.2974	2.7173	2.5998	2.4820	Ave		2.5399			0.2000	5.7		20.0			
2,2-Dichloropropane	2.2423 2.0999	2.2180 1.9897	2.3425	2.2763	2.1565	Ave		2.1893				5.4		20.0			
2-Butanone (MEK)	+++++ 0.7334	0.6357 0.6362	0.7197	0.7549	0.6182	Ave		0.6830			0.1000	8.7		20.0			
cis-1,2-Dichloroethene	1.6984 1.5453	1.7105 1.4787	1.7386	1.6696	1.5896	Ave		1.6330			0.1000	5.9		20.0			
Chlorobromomethane	0.8057 0.7625	0.7782 0.7195	0.8163	0.7840	0.7481	Ave		0.7735				4.3		20.0			
Tetrahydrofuran	+++++ 0.4469	0.4092 0.3877	0.4349	0.4594	0.3658	Ave		0.4173				8.7		20.0			
Chloroform	2.8485 2.5141	2.7819 2.3681	2.8435	2.6989	2.5529	Ave		2.6583			0.2000	6.9		20.0			
1,1,1-Trichloroethane	2.2928 2.1755	2.2698 2.0696	2.4237	2.3365	2.2192	Ave		2.2553			0.1000	5.1		20.0			
Cyclohexane	2.3215 2.1489	2.3287 2.0166	2.5367	2.3650	2.2262	Ave		2.2776			0.1000	7.3		20.0			
1,1-Dichloropropene	2.1039 1.9932	2.1983 1.8716	2.2942	2.1692	2.0525	Ave		2.0976				6.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.7642 1.9380	1.8429 1.8634	2.0030	1.9386	1.9323	Ave		1.8975			0.1000	4.2		20.0			
Isobutyl alcohol	+++++ 0.0746	0.0553 0.0636	0.0628	0.0698	0.0572	Ave		0.0639				11.5		20.0			
Benzene	6.0364 5.4252	6.1096 4.9098	6.2596	5.9524	5.6173	Ave		5.7586			0.5000	8.2		20.0			
1,2-Dichloroethane	2.4008 2.1156	2.2629 1.9517	2.3236	2.2365	2.0875	Ave		2.1969			0.1000	7.0		20.0			
n-Heptane	2.5005 2.0683	2.3217 1.9971	2.4411	2.2991	2.1878	Ave		2.2594				8.2		20.0			
Trichloroethene	1.5834 1.4538	1.6101 1.3841	1.6658	1.5680	1.4887	Ave		1.5363			0.2000	6.4		20.0			
Methylcyclohexane	2.7144 2.5752	2.7821 2.4347	2.9681	2.8239	2.6568	Ave		2.7079			0.1000	6.4		20.0			
1,2-Dichloropropane	1.3724 1.2992	1.3978 1.2477	1.4219	1.3688	1.3145	Ave		1.3460			0.1000	4.5		20.0			
1,4-Dioxane	+++++ 0.0083	0.0059 0.0074	0.0079	0.0081	0.0071	Ave		0.0074				11.6		20.0			
Dibromomethane	0.9268 0.9170	0.9202 0.8604	0.9533	0.9568	0.8833	Ave		0.9168			0.1000	3.8		20.0			
Bromodichloromethane	1.7563 1.9472	1.8092 1.8656	1.9128	1.9132	1.8972	Ave		1.8717			0.2000	3.6		20.0			
2-Chloroethyl vinyl ether	0.7876 0.8599	0.8034 0.8070	0.8664	0.8577	0.8034	Ave		0.8265				4.0		20.0			
cis-1,3-Dichloropropene	2.2267 2.3105	2.2719 2.1945	2.3478	2.3327	2.2863	Ave		2.2815			0.2000	2.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.6500 0.6497	0.6053 0.5397	0.6841	0.7179	0.5978	Ave		0.6349			0.1000	9.3		20.0			
Toluene	1.8799 1.7045	1.8075 1.6017	1.9211	1.8438	1.7804	Ave		1.7913			0.4000	6.1		20.0			
trans-1,3-Dichloropropene	0.9879 1.0967	0.9798 1.0451	1.0816	1.0766	1.0786	Ave		1.0495			0.1000	4.5		20.0			
Ethyl methacrylate	0.8931 0.9599	0.8295 0.8915	0.9267	0.9500	0.8970	Ave		0.9068				4.8		20.0			
1,1,2-Trichloroethane	0.5215 0.5068	0.4993 0.4797	0.5326	0.5305	0.4954	Ave		0.5094			0.1000	3.9		20.0			
Tetrachloroethene	0.8369 0.7666	0.8020 0.7301	0.8698	0.8335	0.8003	Ave		0.8056			0.2000	5.8		20.0			
1,3-Dichloropropane	1.0982 1.0751	1.0492 1.0080	1.1294	1.1243	1.0664	Ave		1.0787				4.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4957 0.5120	0.4559 0.4319	0.5253	0.5732	0.4763	Ave		0.4957			0.1000	9.5		20.0			
Dibromochloromethane	+++++ 0.7088	0.5145 0.6920	0.5948	0.6380	0.6610	Ave		0.6349			0.1000	11.3		20.0			
1,2-Dibromoethane	0.6400 0.6651	0.6277 0.6251	0.6693	0.6762	0.6398	Ave		0.6490				3.2		20.0			
Chlorobenzene	1.9940 1.8452	1.9913 1.7058	2.0894	2.0185	1.9257	Ave		1.9386			0.5000	6.6		20.0			
Ethylbenzene	3.4648 3.0086	3.3389 2.6356	3.5356	3.3896	3.2260	Ave		3.2285			0.1000	9.7		20.0			
1,1,1,2-Tetrachloroethane	0.5524 0.6615	0.5748 0.6373	0.6595	0.6498	0.6505	Ave		0.6266				7.1		20.0			
m,p-Xylene	1.3697 1.2960	1.3825 1.2376	1.4556	1.3931	1.3516	Ave		1.3552			0.1000	5.2		20.0			
o-Xylene	1.3156 1.2341	1.2602 1.1624	1.3422	1.3018	1.2614	Ave		1.2682			0.3000	4.7		20.0			
Styrene	2.2408 2.1761	2.1846 2.0126	2.3575	2.2830	2.2368	Ave		2.2131			0.3000	4.9		20.0			
Bromoform	+++++ 0.4975	0.3050 0.4931	0.3539	0.3960	0.4302	Ave		0.4126			0.1000	18.6		20.0			
Isopropylbenzene	3.4909 2.9759	3.4156 2.6142	3.6639	3.4466	3.2222	Ave		3.2613			0.1000	11.0		20.0			
1,1,2,2-Tetrachloroethane	0.8540 0.8161	0.8113 0.7437	0.8698	0.8796	0.7712	Ave		0.8208			0.3000	6.2		20.0			
Bromobenzene	0.9579 0.8446	0.9284 0.7947	0.9717	0.9255	0.8713	Ave		0.8992				7.2		20.0			
trans-1,4-Dichloro-2-butene	0.2670 0.2806	0.2470 0.2520	0.2846	0.2936	0.2638	Ave		0.2698				6.4		20.0			
N-Propylbenzene	4.1652 3.3970	4.1069 2.8389	4.3071	4.0588	3.7452	Ave		3.8027				13.8		20.0			
1,2,3-Trichloropropane	0.3042 0.2754	0.2844 0.2500	0.3011	0.2964	0.2595	Ave		0.2816				7.5		20.0			
2-Chlorotoluene	0.8325 0.7648	0.8273 0.7242	0.8910	0.8444	0.7961	Ave		0.8115				6.8		20.0			
1,3,5-Trimethylbenzene	3.0130 2.5878	2.9103 2.2815	3.1285	2.9661	2.7922	Ave		2.8113				10.3		20.0			
4-Chlorotoluene	0.9149 0.8263	0.8987 0.7877	0.9463	0.9051	0.8647	Ave		0.8777				6.3		20.0			
tert-Butylbenzene	0.6703 0.5952	0.6601 0.5666	0.7098	0.6647	0.6323	Ave		0.6427				7.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0903 2.6863	3.0063 2.3320	3.1880	3.0367	2.8577	Ave		2.8853				10.2		20.0			
sec-Butylbenzene	3.8237 3.1849	3.7393 2.6643	4.0399	3.7699	3.5086	Ave		3.5329				13.3		20.0			
4-Isopropyltoluene	3.2157 2.7665	3.1543 2.3594	3.4030	3.2068	3.0169	Ave		3.0175				11.6		20.0			
1,3-Dichlorobenzene	1.7566 1.5857	1.7358 1.4501	1.8161	1.7390	1.6522	Ave		1.6765			0.6000	7.4		20.0			
1,4-Dichlorobenzene	1.8801 1.6003	1.7775 1.4740	1.8623	1.7622	1.6825	Ave		1.7198			0.5000	8.5		20.0			
n-Butylbenzene	2.8611 2.4926	2.8658 2.1492	3.0424	2.9068	2.7161	Ave		2.7191				11.2		20.0			
1,2-Dichlorobenzene	1.6160 1.4706	1.5845 1.3482	1.6899	1.6020	1.5027	Ave		1.5448			0.4000	7.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1790	0.1296 0.1661	0.1553	0.1673	0.1514	Ave		0.1581			0.0500	10.8		20.0			
1,2,4-Trichlorobenzene	1.0548 1.0078	1.0196 0.9219	1.1327	1.0779	1.0033	Ave		1.0312			0.2000	6.4		20.0			
Hexachlorobutadiene	0.6270 0.5814	0.6334 0.5328	0.7073	0.6588	0.6055	Ave		0.6209				9.0		20.0			
Naphthalene	2.3276 2.4827	2.2857 2.0897	2.6302	2.6535	2.3625	Ave		2.4046				8.3		20.0			
1,2,3-Trichlorobenzene	0.9480 0.9397	0.9399 0.8615	1.0514	0.9910	0.9210	Ave		0.9504				6.2		20.0			
Dibromofluoromethane (Surr)	1.2187 1.2435	1.2417 1.2311	1.2241	1.2227	1.2093	Ave		1.2273				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7935 0.8045	0.8093 0.7769	0.8028	0.7921	0.7796	Ave		0.7941				1.6		20.0			
Toluene-d8 (Surr)	2.2827 2.3283	2.2632 2.3452	2.2908	2.3097	2.3202	Ave		2.3057				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.7737 0.7930	0.7726 0.7905	0.7693	0.7720	0.7844	Ave		0.7793				1.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	23831 970484	48159 1870641	105330	206475	506261	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	21718 760112	41572 1472544	82833	166326	394187	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	20186 735842	40739 1460875	84472	163031	389073	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	24832 770039	45648 1501829	95178	182936	423068	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	12361 395241	23689 828372	46341	90326	213610	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	10146 308882	18972 651639	37289	72955	170887	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	25301 878377	48486 1746904	106200	197200	473505	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	26902 959534	54119 1917931	108956	214653	523065	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	+++++ 547110	33804 1152714	59617	129494	280286	+++++ 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	+++++ 828749	40495 1515180	79379	170914	356028	+++++ 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	20947 792353	39313 1527242	86228	169969	402106	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	21368 773145	40306 1499517	84002	168177	395634	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	45161 1728336	78544 3053604	167072	352639	722105	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	37031 1438044	69715 2778637	148837	299322	725238	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	66008 2575399	126834 4913516	270635	544294	1323471	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Ave	34224 1254658	64320 2394553	133169	263471	646522	2.50 100	5.00 200	10.0	20.0	50.0
Methyl acetate	FB	Ave	32395 1332522	56347 2421323	117597	262706	573139	5.00 200	10.0 400	20.0	40.0	100
Methylene Chloride	FB	Lin1	+++++ 944214	83165 1805747	131887	225835	486638	+++++ 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	23486 1117217	44988 1866652	96196	208452	412929	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	74402 2877699	138132 5311617	283570	582644	1359349	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	24815 906313	47384 1754514	94079	187099	457275	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	85112 3233654	146892 5657949	304693	660754	1419339	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 1379552	79146 2666829	153106	296489	715625	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	91090 3563205	165950 6281626	341048	724214	1692385	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	41683 1563343	80637 3001328	160649	322652	787529	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	36237 1347299	67058 2599387	138488	282513	684267	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	+++++ 2352803	96102 4155648	212748	468442	980697	+++++ 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	27447 991447	51716 1931790	102786	207216	504389	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	13021 489249	23529 939948	48262	97304	237384	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	+++++ 573450	24742 1013003	51417	114020	232108	+++++ 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	46033 1613060	84108 3093755	168110	334961	810041	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	37052 1395790	68627 2703792	143290	289982	704160	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	37516 1378722	70406 2634538	149969	293518	706363	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	33999 1278846	66464 2445117	135631	269214	651263	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	28510 1243420	55718 2434358	118417	240591	613133	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	+++++ 1196074	41826 2077352	92881	216612	453518	+++++ 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	97550 3480851	184720 6414236	370070	738740	1782362	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	38797 1357413	68416 2549664	137370	277563	662378	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	40409 1327032	70196 2609005	144320	285334	694204	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	25588 932749	48681 1808222	98482	194597	472358	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	43865 1652250	84116 3180641	175476	350475	842987	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	22178 833564	42261 1630061	84064	169875	417075	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 218431	7688 391740	19287	40837	90905	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	14978 588328	27823 1123988	56360	118746	280274	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	28383 1249367	54701 2437257	113083	237447	601975	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	12728 551747	24289 1054234	51220	106449	254924	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	35984 1482439	68689 2866859	138801	289513	725446	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	109354 4269190	196305 7165809	418620	910358	1916594	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	63252 2239990	117243 4253584	235124	467633	1141602	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	33238 1441202	63557 2775351	132381	273052	691569	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	30048 1261468	53807 2367523	113419	240938	575124	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	17545 665976	32387 1273909	65178	134553	317622	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	28159 1007514	52022 1939047	106454	211396	513159	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	36952 1412885	68058 2676910	138230	285150	683791	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	83388 3363984	147843 5734469	321433	726871	1527085	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Ave	+++++ 931528	33375 1837784	72801	161803	423837	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	21533 874036	40715 1660134	81911	171502	410248	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	67092 2424875	129168 4530079	255717	511957	1234720	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	116577 3953899	216574 6999358	432718	859703	2068503	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	18585 869371	37285 1692523	80719	164796	417123	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	46087 1703198	89677 3286708	178145	353316	866603	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	44264 1621772	81745 3086903	164273	330183	808767	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	75396 2859737	141701 5344805	288535	579043	1434229	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 653783	19782 1309515	43312	100445	275817	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	110494 3954109	208829 7035681	425966	843949	2047429	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	27032 1084375	49605 2001615	101118	215385	490044	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	30319 1122268	56761 2138796	112972	226633	553615	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	8450 372857	15102 678115	33091	71882	167640	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	131839 4513616	251097 7640594	500735	993856	2379752	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	9630 365896	17388 672880	35007	72575	164888	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	26352 1016130	50581 1949120	103590	206762	505881	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	95367 3438340	177936 6140462	363718	726292	1774197	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	28958 1097958	54945 2120077	110013	221628	549425	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	21218 790782	40356 1524919	82525	162753	401791	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	97816 3569277	183803 6276260	370634	743593	1815784	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	121027 4231777	228623 7170684	469677	923130	2229369	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	101785 3675792	192857 6350065	395629	785245	1916976	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	55600 2106967	106130 3902824	211139	425814	1049816	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	59509 2126360	108676 3967003	216510	431504	1069081	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	90559 3311931	175214 5784281	353712	711785	1725818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	51151 1953969	96879 3628583	196462	392276	954818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 237848	7922 447122	18057	40957	96205	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	33387 1339108	62339 2481204	131691	263952	637529	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	19847 772533	38725 1434094	82232	161308	384742	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	73674 3298812	139746 5624161	305790	649744	1501140	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	30005 1248595	57466 2318537	122240	242674	585229	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	393897 398932	375428 402086	361843	379363	383697	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	256472 258094	244683 253737	237296	245754	247352	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1536086 1529884	1468002 1557059	1401827	1464478	1487663	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	520628 521062	501136 524824	470749	489515	502957	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 13:08:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0071332-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:51 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 15:02:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	98	323206	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	672926	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	633044	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	393897	50.0	49.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	256472	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	6.554	6.560	-0.006	93	1536086	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	520628	50.0	49.6	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	23831	2.50	2.33	
12 Chloromethane	50	1.991	1.985	0.006	99	21718	2.50	2.61	
13 Vinyl chloride	62	2.076	2.076	0.000	93	20186	2.50	2.48	
151 Butadiene	54	2.082	2.082	0.000	88	24832	2.50	2.74	
14 Bromomethane	94	2.368	2.362	0.006	93	12361	2.50	2.69	
15 Chloroethane	64	2.417	2.417	0.000	95	10146	2.50	2.75	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	25301	2.50	2.55	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	97	26902	2.50	2.50	
18 Ethyl ether	59	2.770	2.763	0.007	88	20899	2.50	3.35	
20 Acrolein	56	2.922	2.916	0.006	97	24741	12.5	15.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.946	2.952	-0.006	93	20947	2.50	2.49	
22 1,1-Dichloroethene	96	2.983	2.976	0.007	98	21368	2.50	2.56	
23 Acetone	43	3.031	3.025	0.006	99	45161	12.5	13.3	
25 Iodomethane	142	3.129	3.128	0.001	99	37031	2.50	2.48	
26 Carbon disulfide	76	3.183	3.183	0.000	99	66008	2.50	2.45	
27 Methyl acetate	43	3.250	3.244	0.006	74	32395	5.00	5.12	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	34224	2.50	2.57	
30 Methylene Chloride	84	3.354	3.354	0.000	90	63428	2.50	1.50	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	97	23486	25.0	23.7	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	74402	2.50	2.56	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	24815	2.50	2.58	
33 Acrylonitrile	53	3.554	3.548	0.006	99	85112	25.0	26.8	
35 Hexane	57	3.670	3.670	0.000	91	47053	2.50	3.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	91090	5.00	5.13	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	41683	2.50	2.54	
43 2-Butanone (MEK)	43	4.303	4.290	0.013	94	46597	12.5	10.6	
44 2,2-Dichloropropane	77	4.291	4.290	0.000	69	36237	2.50	2.56	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	82	27447	2.50	2.60	
48 Chlorobromomethane	128	4.503	4.503	0.000	86	13021	2.50	2.60	
49 Tetrahydrofuran	42	4.534	4.522	0.012	51	15767	5.00	5.85	M
50 Chloroform	83	4.540	4.540	0.000	93	46033	2.50	2.68	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	37052	2.50	2.54	
52 Cyclohexane	56	4.710	4.704	0.006	89	37516	2.50	2.55	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	93	33999	2.50	2.51	
55 Carbon tetrachloride	117	4.808	4.808	0.000	78	28510	2.50	2.32	
53 Isobutyl alcohol	43	4.875	4.862	0.013	94	20269	62.5	49.1	
57 Benzene	78	4.978	4.978	0.000	92	97550	2.50	2.62	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	94	38797	2.50	2.73	
59 n-Heptane	43	5.075	5.075	0.000	90	40409	2.50	2.77	
62 Trichloroethene	95	5.495	5.495	0.000	97	25588	2.50	2.58	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	43865	2.50	2.51	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	87	22178	2.50	2.55	
66 1,4-Dioxane	88	5.824	5.817	0.007	61	3066	50.0	30.6	
67 Dibromomethane	93	5.842	5.842	0.000	95	14978	2.50	2.53	
68 Dichlorobromomethane	83	5.957	5.957	0.000	98	28383	2.50	2.35	
69 2-Chloroethyl vinyl ether	63	6.158	6.164	-0.006	95	12728	2.50	2.38	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.000	95	35984	2.50	2.44	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	96	109354	12.5	12.8	
74 Toluene	92	6.621	6.620	0.001	98	63252	2.50	2.62	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	33238	2.50	2.35	
75 Ethyl methacrylate	69	6.852	6.852	0.000	74	30048	2.50	2.46	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	17545	2.50	2.56	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	28159	2.50	2.60	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	88	36952	2.50	2.55	
80 2-Hexanone	43	7.229	7.217	0.012	95	83388	12.5	12.5	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	17692	2.50	2.07	
84 Ethylene Dibromide	107	7.570	7.563	0.007	97	21533	2.50	2.47	
87 Chlorobenzene	112	8.020	8.020	0.000	96	67092	2.50	2.57	
88 Ethylbenzene	91	8.087	8.087	0.000	98	116577	2.50	2.68	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	90	18585	2.50	2.20	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	46087	2.50	2.53	
91 o-Xylene	106	8.628	8.628	0.000	96	44264	2.50	2.59	
92 Styrene	104	8.652	8.652	0.000	95	75396	2.50	2.53	
95 Bromoform	173	8.926	8.920	0.006	93	10426	2.50	1.88	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	110494	2.50	2.68	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	27032	2.50	2.60	
101 Bromobenzene	156	9.389	9.388	0.001	91	30319	2.50	2.66	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	43	8450	2.50	2.47	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	131839	2.50	2.74	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	54	9630	2.50	2.70	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	26352	2.50	2.56	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	95367	2.50	2.68	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	28958	2.50	2.61	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	21218	2.50	2.61	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	97816	2.50	2.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	94	121027	2.50	2.71	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	101785	2.50	2.66	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	96	55600	2.50	2.62	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	59509	2.50	2.73	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	90559	2.50	2.63	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	51151	2.50	2.62	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	85	4091	2.50	2.04	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	33387	2.50	2.56	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	19847	2.50	2.52	
121 Naphthalene	128	12.266	12.266	0.000	97	73674	2.50	2.42	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	30005	2.50	2.49	
S 125 1,2-Dichloroethene, Total	1				0			5.18	
S 126 1,3-Dichloropropene, Total	1				0			4.79	
S 123 Total BTEX	1				0			13.0	
S 124 Xylenes, Total	1				0			5.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	2.50	Units: uL	
GAS CORP mix_00280	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

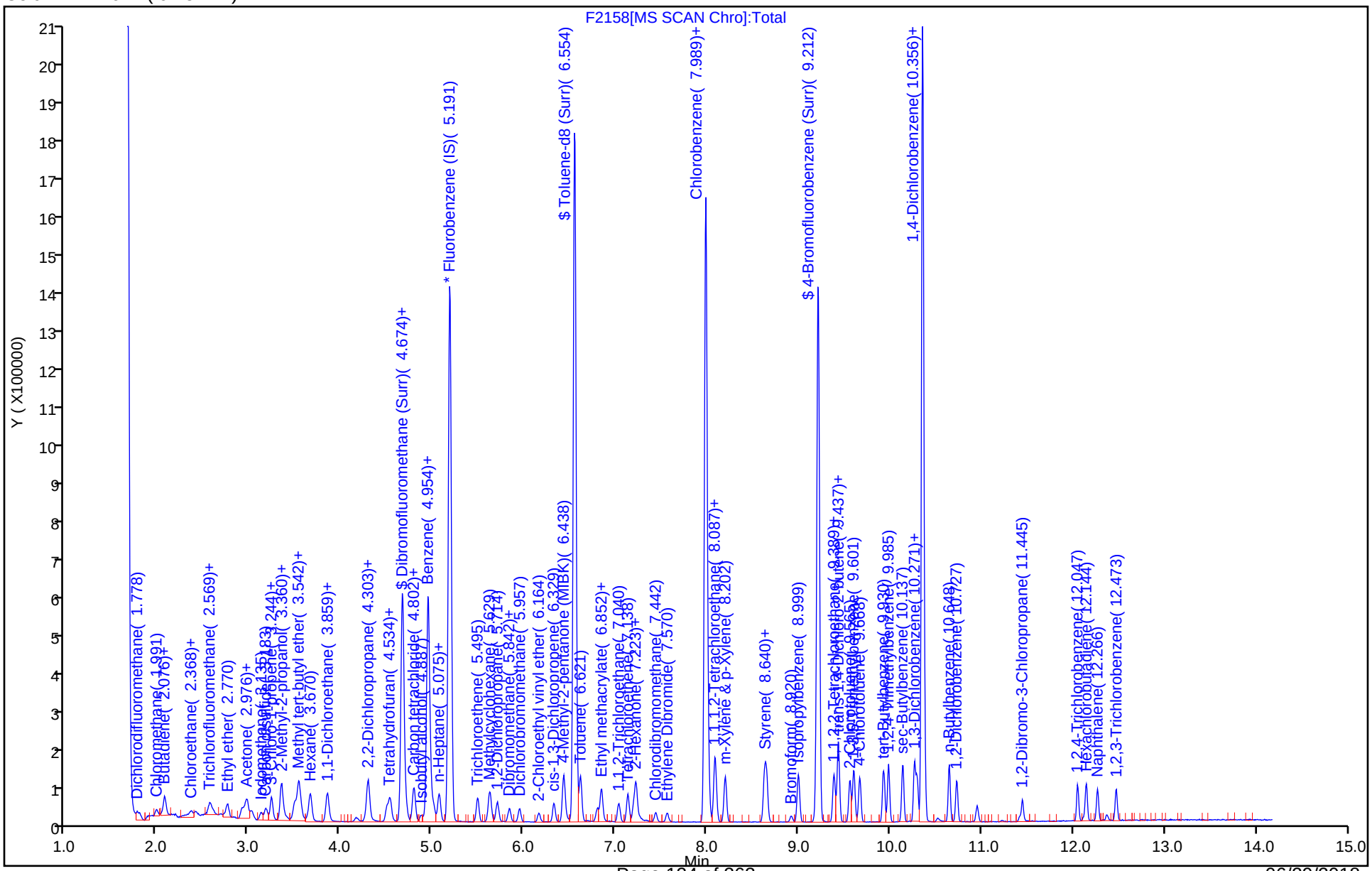
Report Date: 09-May-2018 10:46:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D

Injection Date:	08-May-2018 13:08:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

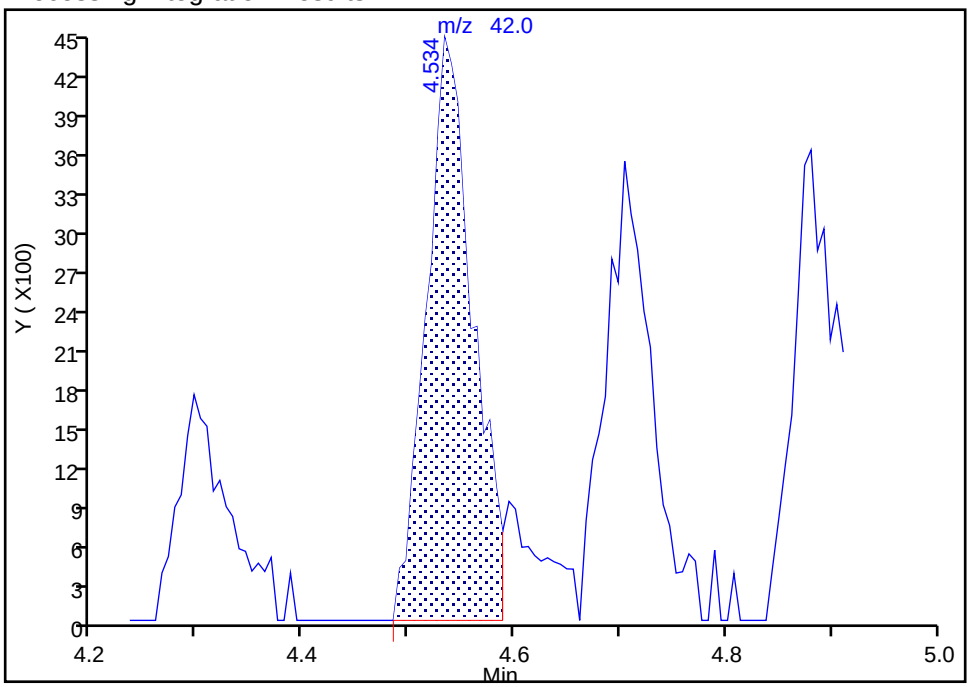
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Injection Date: 08-May-2018 13:08:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

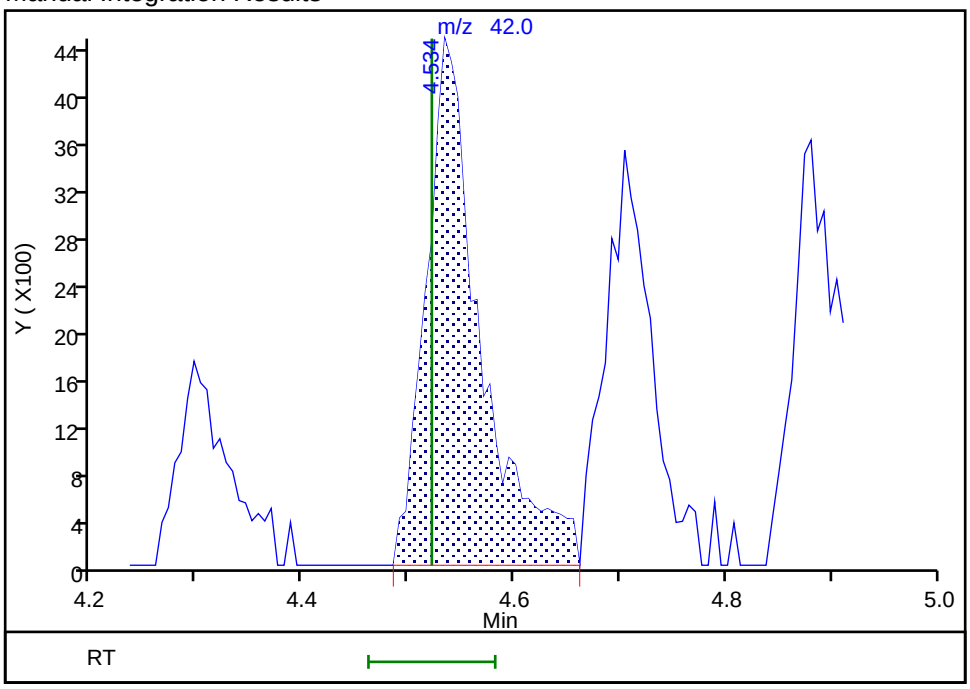
Processing Integration Results

RT: 4.53
Area: 13597
Amount: 3.217188
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 15767
Amount: 5.845259
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:33:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:33:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0071332-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:59 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:35:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	302342	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	648646	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	611401	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.674	0.006	93	375428	50.0	50.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	98	244683	50.0	51.0	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1468002	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	501136	50.0	49.6	
10 Dichlorodifluoromethane	85	1.821	1.808	0.013	99	48159	5.00	5.04	
12 Chloromethane	50	2.003	1.985	0.018	100	41572	5.00	5.34	
13 Vinyl chloride	62	2.088	2.076	0.012	97	40739	5.00	5.34	
151 Butadiene	54	2.088	2.082	0.006	89	45648	5.00	5.38	
14 Bromomethane	94	2.374	2.362	0.012	92	23689	5.00	5.50	M
15 Chloroethane	64	2.423	2.417	0.006	97	18972	5.00	5.50	
16 Dichlorofluoromethane	67	2.581	2.569	0.012	96	48486	5.00	5.22	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	95	54119	5.00	5.38	
18 Ethyl ether	59	2.776	2.763	0.013	87	33804	5.00	5.79	
20 Acrolein	56	2.928	2.916	0.012	98	40495	25.0	26.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	94	39313	5.00	5.00	
22 1,1-Dichloroethene	96	2.989	2.976	0.013	99	40306	5.00	5.17	
23 Acetone	43	3.043	3.025	0.018	100	78544	25.0	24.8	
25 Iodomethane	142	3.141	3.128	0.013	100	69715	5.00	4.99	
26 Carbon disulfide	76	3.195	3.183	0.012	100	126834	5.00	5.03	
27 Methyl acetate	43	3.256	3.244	0.012	76	56347	10.0	9.52	
28 3-Chloro-1-propene	41	3.250	3.244	0.006	82	64320	5.00	5.15	
30 Methylene Chloride	84	3.360	3.354	0.006	92	83165	5.00	4.38	
31 2-Methyl-2-propanol	59	3.414	3.402	0.012	97	44988	50.0	48.6	
32 Methyl tert-butyl ether	73	3.512	3.500	0.012	94	138132	5.00	5.08	
34 trans-1,2-Dichloroethene	96	3.542	3.536	0.006	98	47384	5.00	5.28	
33 Acrylonitrile	53	3.560	3.548	0.012	98	146892	50.0	49.4	
35 Hexane	57	3.676	3.670	0.006	91	79146	5.00	5.59	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.846	0.013	98	165950	10.0	10.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	80637	5.00	5.25	
43 2-Butanone (MEK)	43	4.309	4.290	0.019	99	96102	25.0	23.3	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	87	67058	5.00	5.07	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	83	51716	5.00	5.24	
48 Chlorobromomethane	128	4.510	4.503	0.007	88	23529	5.00	5.03	
49 Tetrahydrofuran	42	4.534	4.522	0.012	52	24742	10.0	9.81	M
50 Chloroform	83	4.546	4.540	0.006	93	84108	5.00	5.23	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	68627	5.00	5.03	
52 Cyclohexane	56	4.716	4.704	0.012	89	70406	5.00	5.11	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	94	66464	5.00	5.24	
55 Carbon tetrachloride	117	4.808	4.808	0.000	74	55718	5.00	4.86	
53 Isobutyl alcohol	43	4.881	4.862	0.019	93	41826	125.0	108.3	
57 Benzene	78	4.984	4.978	0.006	94	184720	5.00	5.30	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	95	68416	5.00	5.15	
59 n-Heptane	43	5.081	5.075	0.006	88	70196	5.00	5.14	
62 Trichloroethene	95	5.495	5.495	0.000	97	48681	5.00	5.24	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	84116	5.00	5.14	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	91	42261	5.00	5.19	
66 1,4-Dioxane	88	5.842	5.817	0.025	87	7688	100.0	79.7	
67 Dibromomethane	93	5.842	5.842	0.000	95	27823	5.00	5.02	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	54701	5.00	4.83	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	24289	5.00	4.86	
72 cis-1,3-Dichloropropene	75	6.335	6.328	0.007	95	68689	5.00	4.98	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	196305	25.0	23.8	
74 Toluene	92	6.621	6.620	0.001	99	117243	5.00	5.05	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	63557	5.00	4.67	
75 Ethyl methacrylate	69	6.852	6.852	0.000	84	53807	5.00	4.57	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	32387	5.00	4.90	
81 Tetrachloroethene	166	7.144	7.138	0.006	95	52022	5.00	4.98	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	90	68058	5.00	4.86	
80 2-Hexanone	43	7.229	7.217	0.012	95	147843	25.0	23.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	33375	5.00	4.05	
84 Ethylene Dibromide	107	7.570	7.563	0.007	98	40715	5.00	4.84	
87 Chlorobenzene	112	8.020	8.020	0.000	94	129168	5.00	5.14	
88 Ethylbenzene	91	8.087	8.087	0.000	98	216574	5.00	5.17	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	37285	5.00	4.59	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	89677	5.00	5.10	
91 o-Xylene	106	8.628	8.628	0.000	96	81745	5.00	4.97	
92 Styrene	104	8.652	8.652	0.000	95	141701	5.00	4.94	
95 Bromoform	173	8.926	8.920	0.006	94	19782	5.00	3.70	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	208829	5.00	5.24	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	49605	5.00	4.94	
101 Bromobenzene	156	9.389	9.388	0.001	91	56761	5.00	5.16	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	43	15102	5.00	4.58	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	251097	5.00	5.40	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	53	17388	5.00	5.05	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	50581	5.00	5.10	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	177936	5.00	5.18	
105 4-Chlorotoluene	126	9.674	9.668	0.006	98	54945	5.00	5.12	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	40356	5.00	5.13	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	183803	5.00	5.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	228623	5.00	5.29	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	192857	5.00	5.23	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	106130	5.00	5.18	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	108676	5.00	5.17	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	175214	5.00	5.27	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	96879	5.00	5.13	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	79	7922	5.00	4.10	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	62339	5.00	4.94	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	38725	5.00	5.10	
121 Naphthalene	128	12.266	12.266	0.000	97	139746	5.00	4.75	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	57466	5.00	4.94	
S 125 1,2-Dichloroethene, Total	1				0			10.5	
S 126 1,3-Dichloropropene, Total	1				0			9.65	
S 123 Total BTEX	1				0			25.6	
S 124 Xylenes, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	5.00	Units: uL	
GAS CORP mix_00280	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

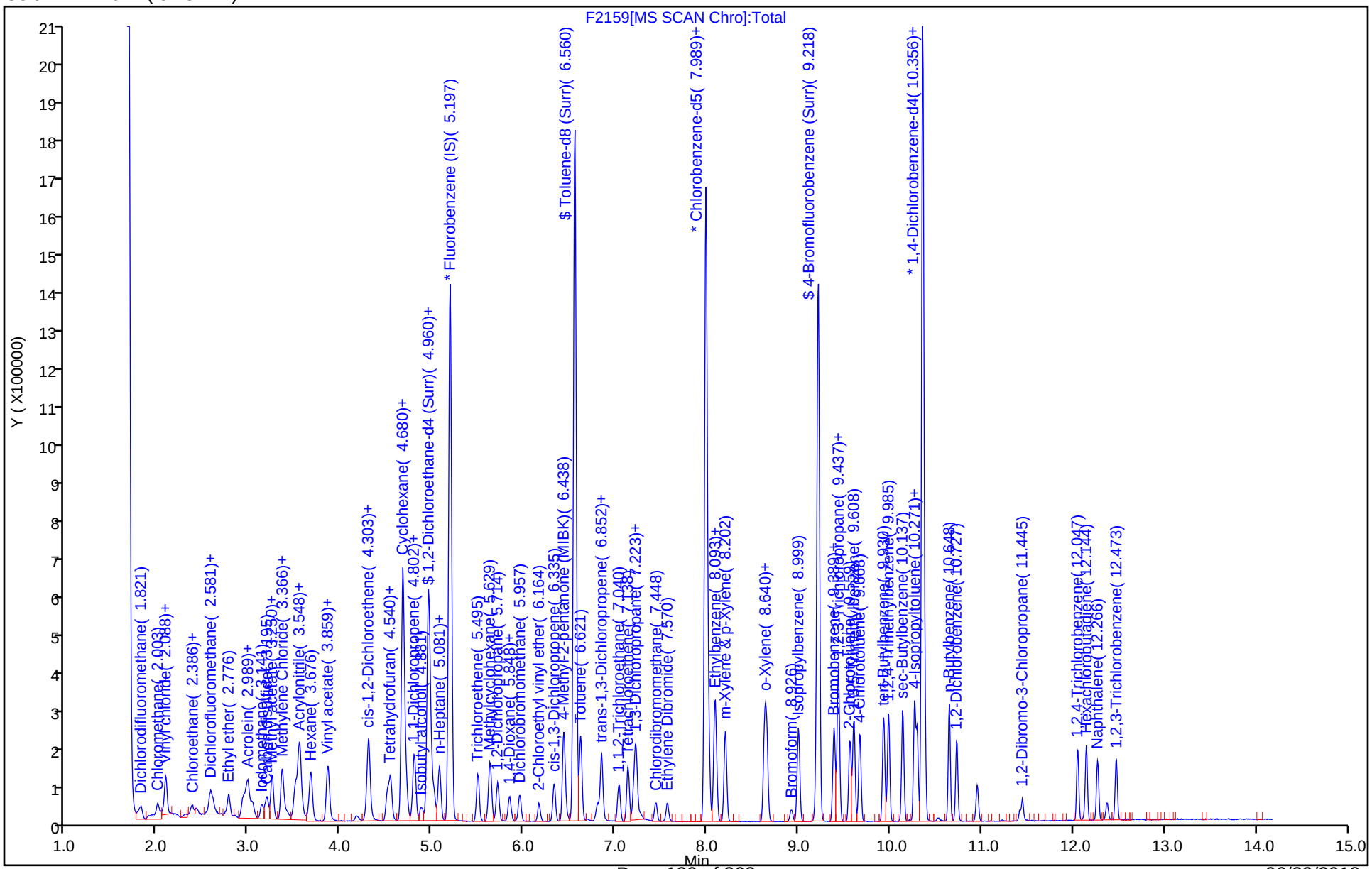
Report Date: 09-May-2018 10:47:03 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D

Injection Date:	08-May-2018 13:33:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

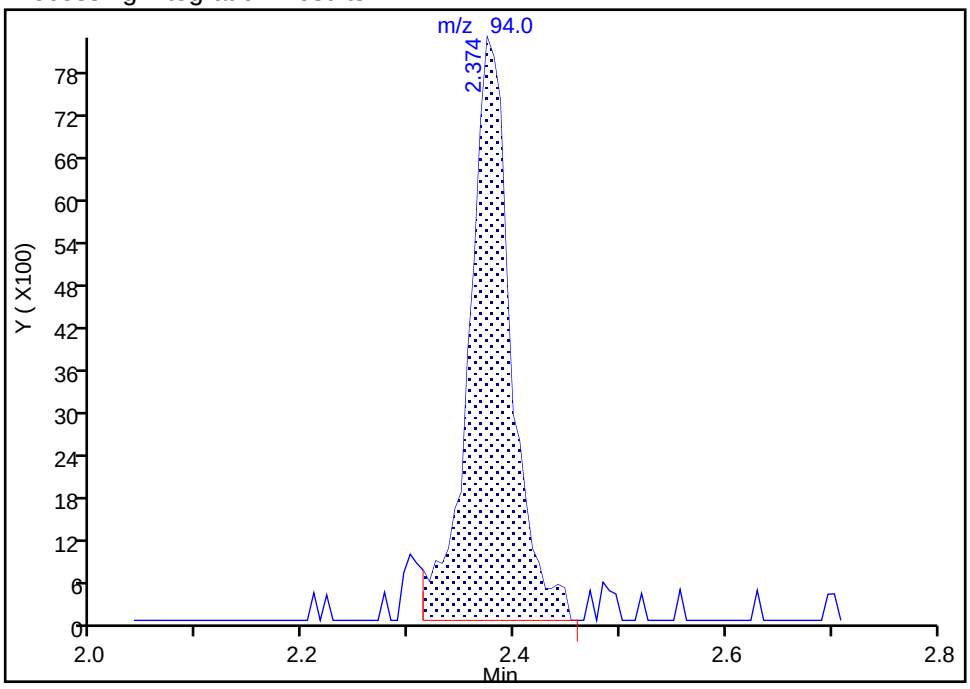
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

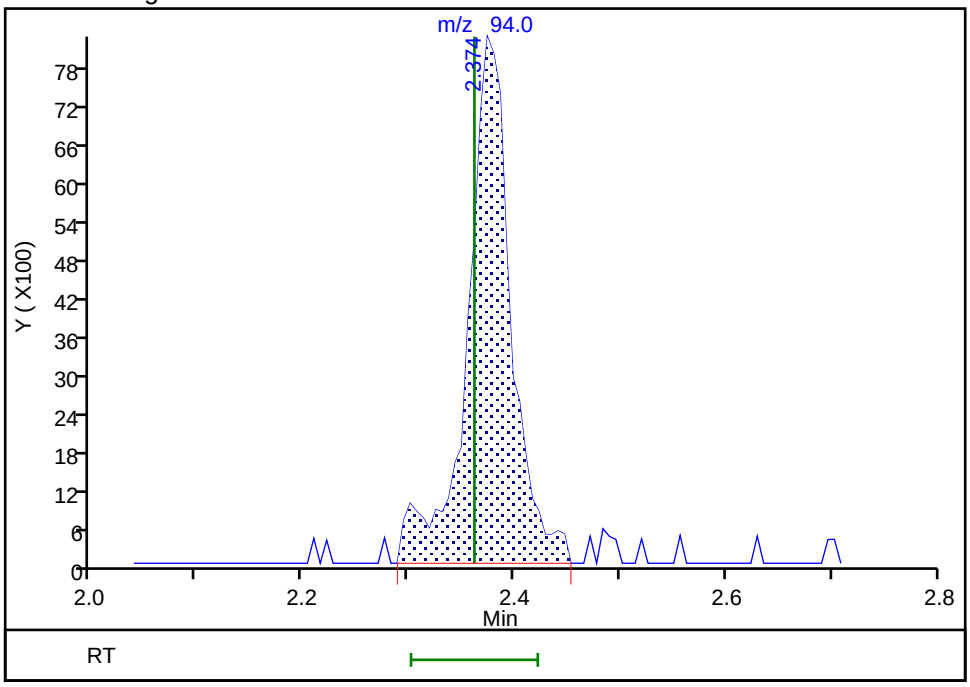
Processing Integration Results

RT: 2.37
Area: 22807
Amount: 5.370111
Amount Units: ug/kg



Manual Integration Results

RT: 2.37
Area: 23689
Amount: 5.502915
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:27
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

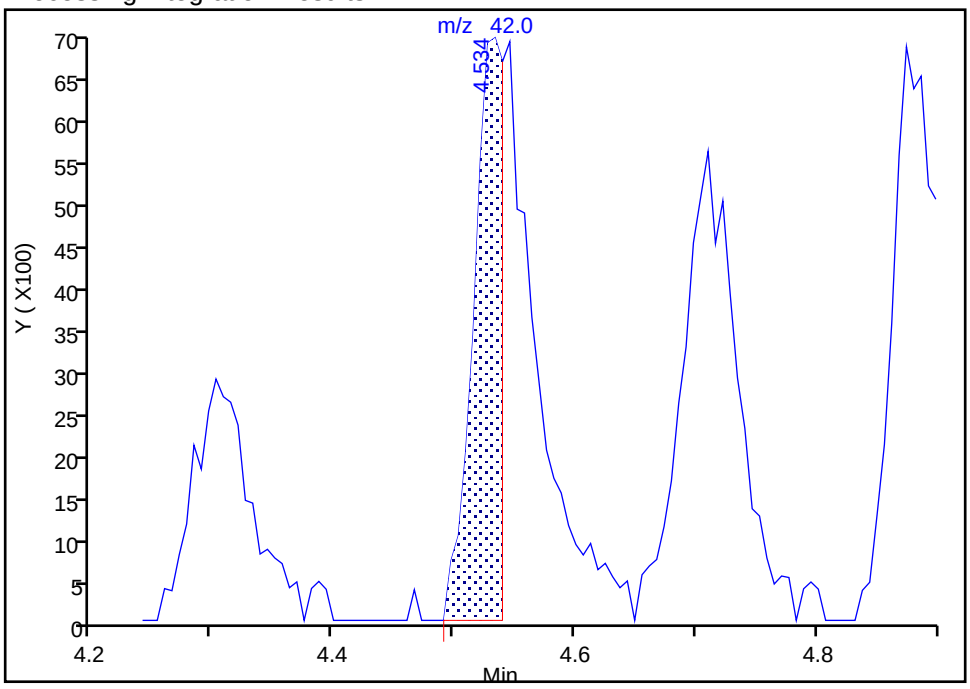
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

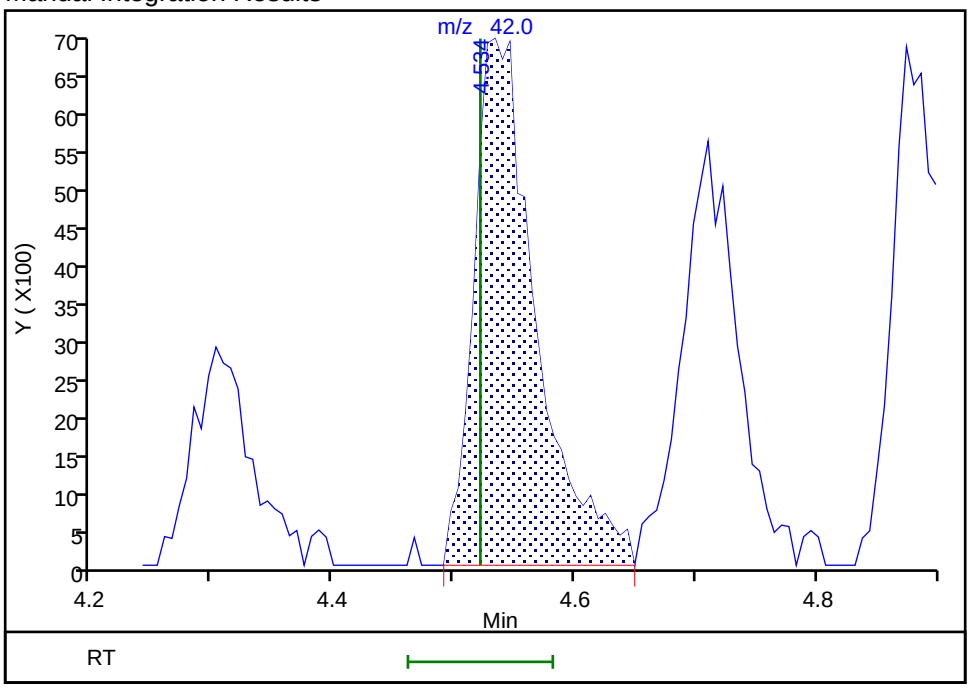
Processing Integration Results

RT: 4.53
Area: 12079
Amount: 2.751326
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 24742
Amount: 9.805515
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:59:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0071332-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:07 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:36:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	295601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	611942	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	581296	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	361843	50.0	49.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	237296	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1401827	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	470749	50.0	49.4	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	105330	10.0	11.3	
12 Chloromethane	50	1.997	1.985	0.012	100	82833	10.0	10.9	
13 Vinyl chloride	62	2.082	2.076	0.006	97	84472	10.0	11.3	
151 Butadiene	54	2.082	2.082	0.000	88	95178	10.0	11.5	
14 Bromomethane	94	2.368	2.362	0.006	91	46341	10.0	11.0	
15 Chloroethane	64	2.417	2.417	0.000	99	37289	10.0	11.1	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	106200	10.0	11.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	108956	10.0	11.1	
18 Ethyl ether	59	2.770	2.763	0.007	87	59617	10.0	10.5	
20 Acrolein	56	2.922	2.916	0.006	100	79379	50.0	52.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	86228	10.0	11.2	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	84002	10.0	11.0	
23 Acetone	43	3.031	3.025	0.006	100	167072	50.0	53.9	
25 Iodomethane	142	3.129	3.128	0.001	99	148837	10.0	10.9	
26 Carbon disulfide	76	3.189	3.183	0.006	100	270635	10.0	11.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	117597	20.0	20.3	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	133169	10.0	10.9	
30 Methylene Chloride	84	3.354	3.354	0.000	90	131887	10.0	10.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	96196	100.0	106.3	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	283570	10.0	10.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	94079	10.0	10.7	
33 Acrylonitrile	53	3.554	3.548	0.006	99	304693	100.0	104.7	
35 Hexane	57	3.676	3.670	0.006	92	153106	10.0	11.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.853	3.846	0.007	97	341048	20.0	21.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	160649	10.0	10.7	
43 2-Butanone (MEK)	43	4.297	4.290	0.007	98	212748	50.0	52.7	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	73	138488	10.0	10.7	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	82	102786	10.0	10.6	
48 Chlorobromomethane	128	4.510	4.503	0.007	95	48262	10.0	10.6	
49 Tetrahydrofuran	42	4.534	4.522	0.012	84	51417	20.0	20.8	
50 Chloroform	83	4.546	4.540	0.006	93	168110	10.0	10.7	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	95	143290	10.0	10.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	149969	10.0	11.1	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	95	135631	10.0	10.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	118417	10.0	10.6	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	92881	250.0	245.9	
57 Benzene	78	4.984	4.978	0.006	96	370070	10.0	10.9	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	97	137370	10.0	10.6	
59 n-Heptane	43	5.075	5.075	0.000	90	144320	10.0	10.8	
62 Trichloroethene	95	5.495	5.495	0.000	97	98482	10.0	10.8	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	175476	10.0	11.0	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	84064	10.0	10.6	
66 1,4-Dioxane	88	5.830	5.817	0.013	91	19287	200.0	211.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	56360	10.0	10.4	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	113083	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	51220	10.0	10.5	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	138801	10.0	10.3	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	418620	50.0	53.9	
74 Toluene	92	6.621	6.620	0.001	99	235124	10.0	10.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	132381	10.0	10.3	
75 Ethyl methacrylate	69	6.852	6.852	0.000	90	113419	10.0	10.2	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	65178	10.0	10.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	106454	10.0	10.8	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	91	138230	10.0	10.5	
80 2-Hexanone	43	7.223	7.217	0.006	96	321433	50.0	53.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	72801	10.0	9.37	
84 Ethylene Dibromide	107	7.570	7.563	0.007	99	81911	10.0	10.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	255717	10.0	10.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	432718	10.0	11.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	80719	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	178145	10.0	10.7	
91 o-Xylene	106	8.628	8.628	0.000	97	164273	10.0	10.6	
92 Styrene	104	8.652	8.652	0.000	95	288535	10.0	10.7	
95 Bromoform	173	8.926	8.920	0.006	96	43312	10.0	8.58	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	425966	10.0	11.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	101118	10.0	10.6	
101 Bromobenzene	156	9.389	9.388	0.001	93	112972	10.0	10.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	62	33091	10.0	10.5	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	500735	10.0	11.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	83	35007	10.0	10.7	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	103590	10.0	11.0	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	363718	10.0	11.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	110013	10.0	10.8	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	82525	10.0	11.0	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	370634	10.0	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	469677	10.0	11.4	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	395629	10.0	11.3	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	211139	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	216510	10.0	10.8	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	353712	10.0	11.2	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	196462	10.0	10.9	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	82	18057	10.0	9.82	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	131691	10.0	11.0	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	82232	10.0	11.4	
121 Naphthalene	128	12.266	12.266	0.000	97	305790	10.0	10.9	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	122240	10.0	11.1	
S 125 1,2-Dichloroethene, Total	1				0			21.4	
S 126 1,3-Dichloropropene, Total	1				0			20.6	
S 123 Total BTEX	1				0			53.9	
S 124 Xylenes, Total	1				0			21.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

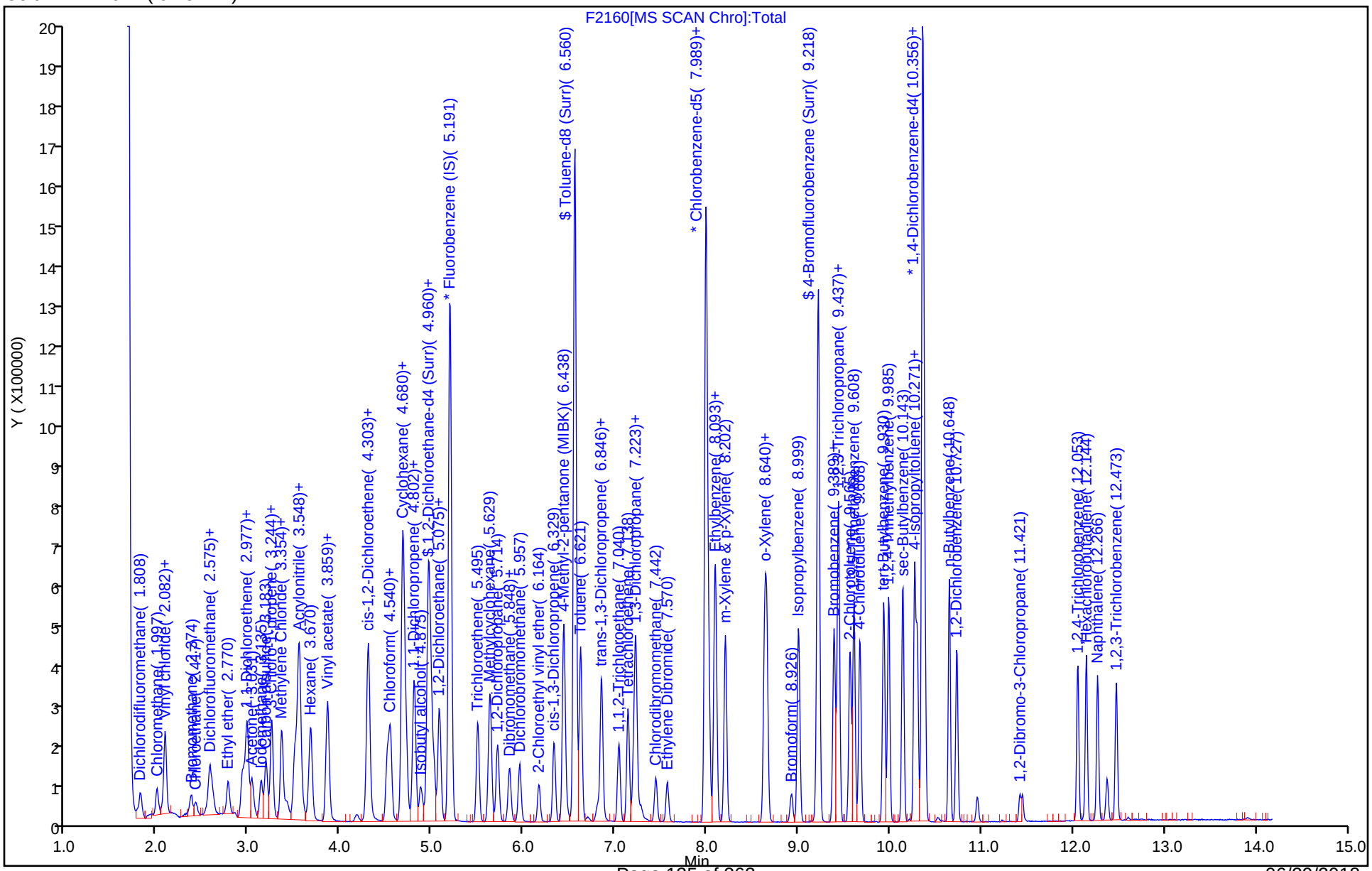
Report Date: 09-May-2018 10:47:10 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D

Injection Date:	08-May-2018 13:59:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

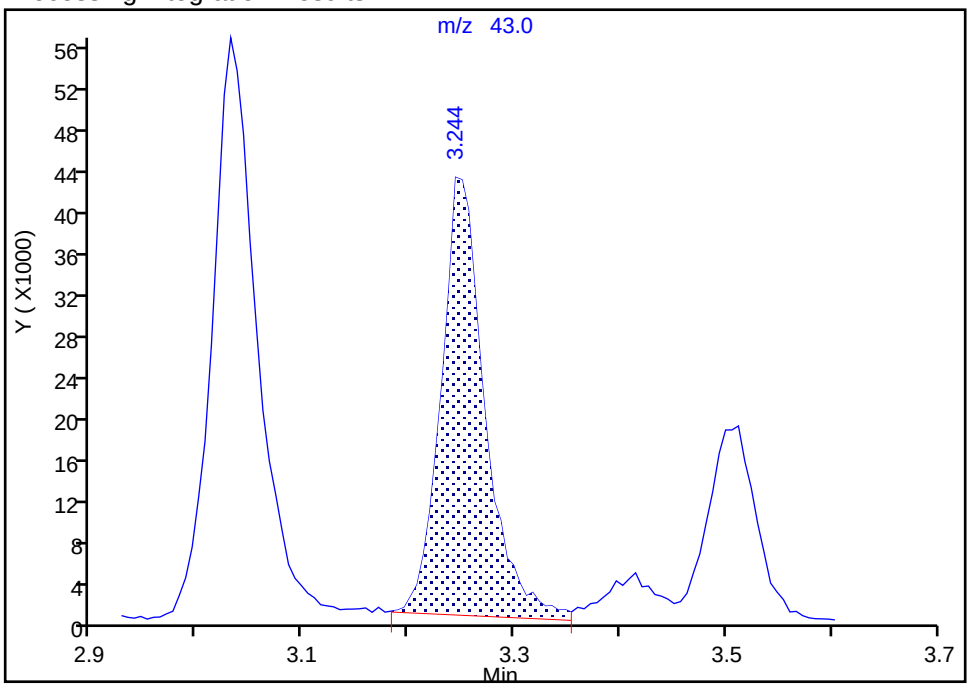
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

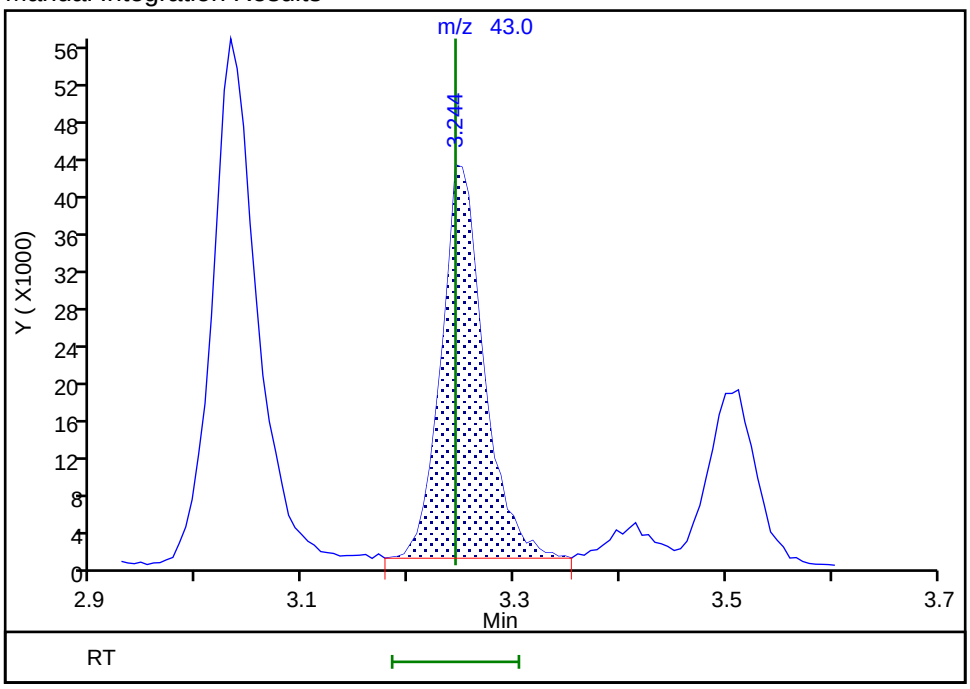
Processing Integration Results

RT: 3.24
Area: 121822
Amount: 20.488921
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 117597
Amount: 20.310834
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

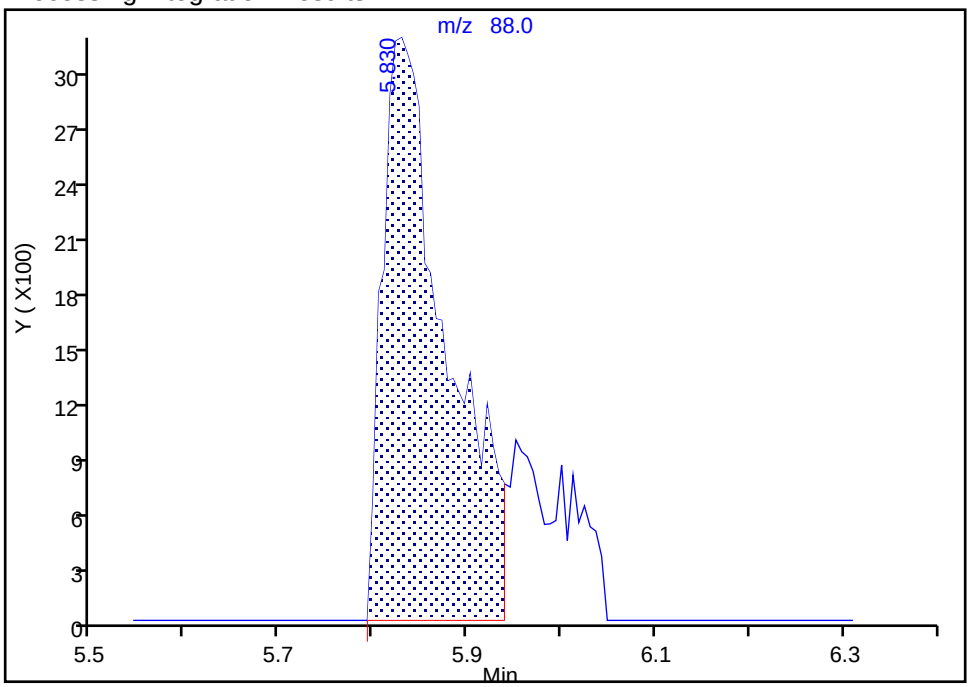
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

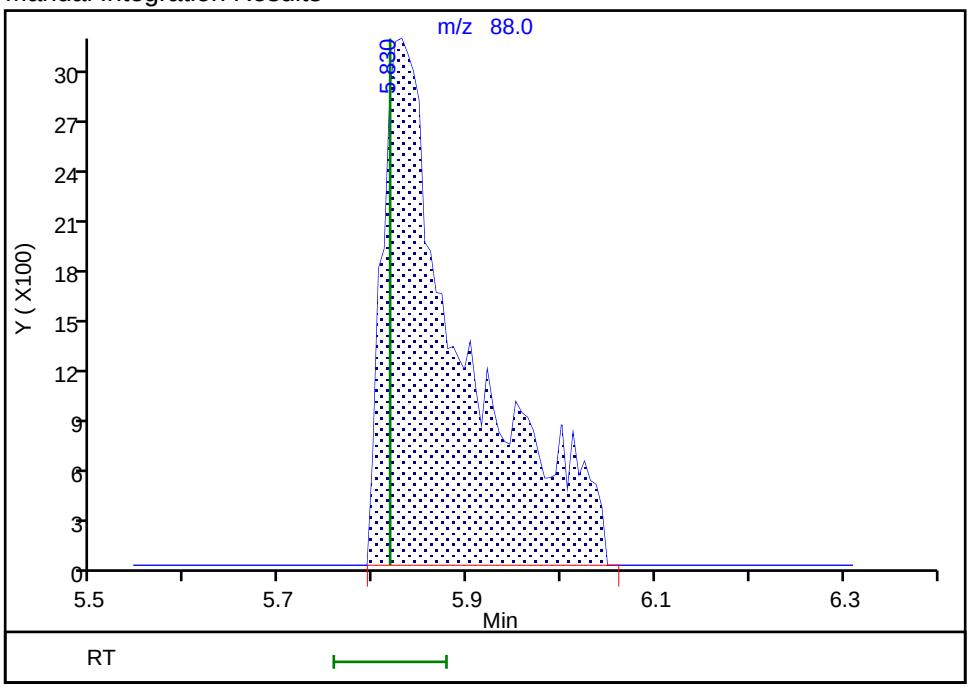
Processing Integration Results

RT: 5.83
Area: 15196
Amount: 191.9682
Amount Units: ug/kg



Manual Integration Results

RT: 5.83
Area: 19287
Amount: 211.8551
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 14:25:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0071332-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:13 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:38:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	99	310271	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	634069	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	612168	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	379363	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	245754	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1464478	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	489515	50.0	49.5	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	206475	20.0	21.1	
12 Chloromethane	50	1.991	1.985	0.006	99	166326	20.0	20.8	M
13 Vinyl chloride	62	2.082	2.076	0.006	97	163031	20.0	20.8	
151 Butadiene	54	2.082	2.082	0.000	92	182936	20.0	21.0	
14 Bromomethane	94	2.368	2.362	0.006	90	90326	20.0	20.4	
15 Chloroethane	64	2.417	2.417	0.000	99	72955	20.0	20.6	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	197200	20.0	20.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	214653	20.0	20.8	
18 Ethyl ether	59	2.770	2.763	0.007	87	129494	20.0	21.6	
20 Acrolein	56	2.922	2.916	0.006	99	170914	100.0	108.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	169969	20.0	21.1	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	168177	20.0	21.0	
23 Acetone	43	3.031	3.025	0.006	100	352639	100.0	108.3	
25 Iodomethane	142	3.129	3.128	0.001	99	299322	20.0	20.9	
26 Carbon disulfide	76	3.183	3.183	0.000	100	544294	20.0	21.0	
27 Methyl acetate	43	3.244	3.244	0.000	80	262706	40.0	43.2	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	86	263471	20.0	20.6	
30 Methylene Chloride	84	3.354	3.354	0.000	90	225835	20.0	20.9	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	100	208452	200.0	219.4	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	582644	20.0	20.9	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	187099	20.0	20.3	
33 Acrylonitrile	53	3.554	3.548	0.006	99	660754	200.0	216.4	
35 Hexane	57	3.670	3.670	0.000	91	296489	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	724214	40.0	42.5	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	322652	20.0	20.5	
43 2-Butanone (MEK)	43	4.291	4.290	0.001	98	468442	100.0	110.5	
44 2,2-Dichloropropane	77	4.291	4.290	0.001	88	282513	20.0	20.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	80	207216	20.0	20.4	
48 Chlorobromomethane	128	4.510	4.503	0.007	90	97304	20.0	20.3	
49 Tetrahydrofuran	42	4.528	4.522	0.006	84	114020	40.0	44.0	
50 Chloroform	83	4.540	4.540	0.000	94	334961	20.0	20.3	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	289982	20.0	20.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	293518	20.0	20.8	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	96	269214	20.0	20.7	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	240591	20.0	20.4	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	216612	500.0	546.4	
57 Benzene	78	4.984	4.978	0.006	97	738740	20.0	20.7	
58 1,2-Dichloroethane	62	5.015	5.014	0.000	97	277563	20.0	20.4	
59 n-Heptane	43	5.075	5.075	0.000	88	285334	20.0	20.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	194597	20.0	20.4	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	350475	20.0	20.9	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	169875	20.0	20.3	
66 1,4-Dioxane	88	5.824	5.817	0.007	93	40837	400.0	432.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	118746	20.0	20.9	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	237447	20.0	20.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	106449	20.0	20.8	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	289513	20.0	20.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	910358	100.0	113.1	
74 Toluene	92	6.621	6.620	0.001	99	467633	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	273052	20.0	20.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	240938	20.0	21.0	
79 1,1,2-Trichloroethane	83	7.034	7.040	-0.006	93	134553	20.0	20.8	
81 Tetrachloroethene	166	7.144	7.138	0.006	97	211396	20.0	20.7	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	97	285150	20.0	20.8	
80 2-Hexanone	43	7.223	7.217	0.006	97	726871	100.0	115.6	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	161803	20.0	20.1	
84 Ethylene Dibromide	107	7.564	7.563	0.001	99	171502	20.0	20.8	
87 Chlorobenzene	112	8.020	8.020	0.000	96	511957	20.0	20.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	859703	20.0	21.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	164796	20.0	20.7	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	353316	20.0	20.6	
91 o-Xylene	106	8.628	8.628	0.000	96	330183	20.0	20.5	
92 Styrene	104	8.652	8.652	0.000	94	579043	20.0	20.6	
95 Bromoform	173	8.920	8.920	0.000	96	100445	20.0	19.2	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	843949	20.0	21.1	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	215385	20.0	21.4	
101 Bromobenzene	156	9.389	9.388	0.001	93	226633	20.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	60	71882	20.0	21.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	993856	20.0	21.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	72575	20.0	21.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	206762	20.0	20.8	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	726292	20.0	21.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	221628	20.0	20.6	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	162753	20.0	20.7	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	743593	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	923130	20.0	21.3	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	785245	20.0	21.3	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	97	425814	20.0	20.7	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	431504	20.0	20.5	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	711785	20.0	21.4	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	392276	20.0	20.7	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	84	40957	20.0	21.2	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	263952	20.0	20.9	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	161308	20.0	21.2	
121 Naphthalene	128	12.266	12.266	0.000	97	649744	20.0	22.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	94	242674	20.0	20.9	
S 125 1,2-Dichloroethene, Total	1				0			40.7	
S 126 1,3-Dichloropropene, Total	1				0			41.0	
S 123 Total BTEX	1				0			103.3	
S 124 Xylenes, Total	1				0			41.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

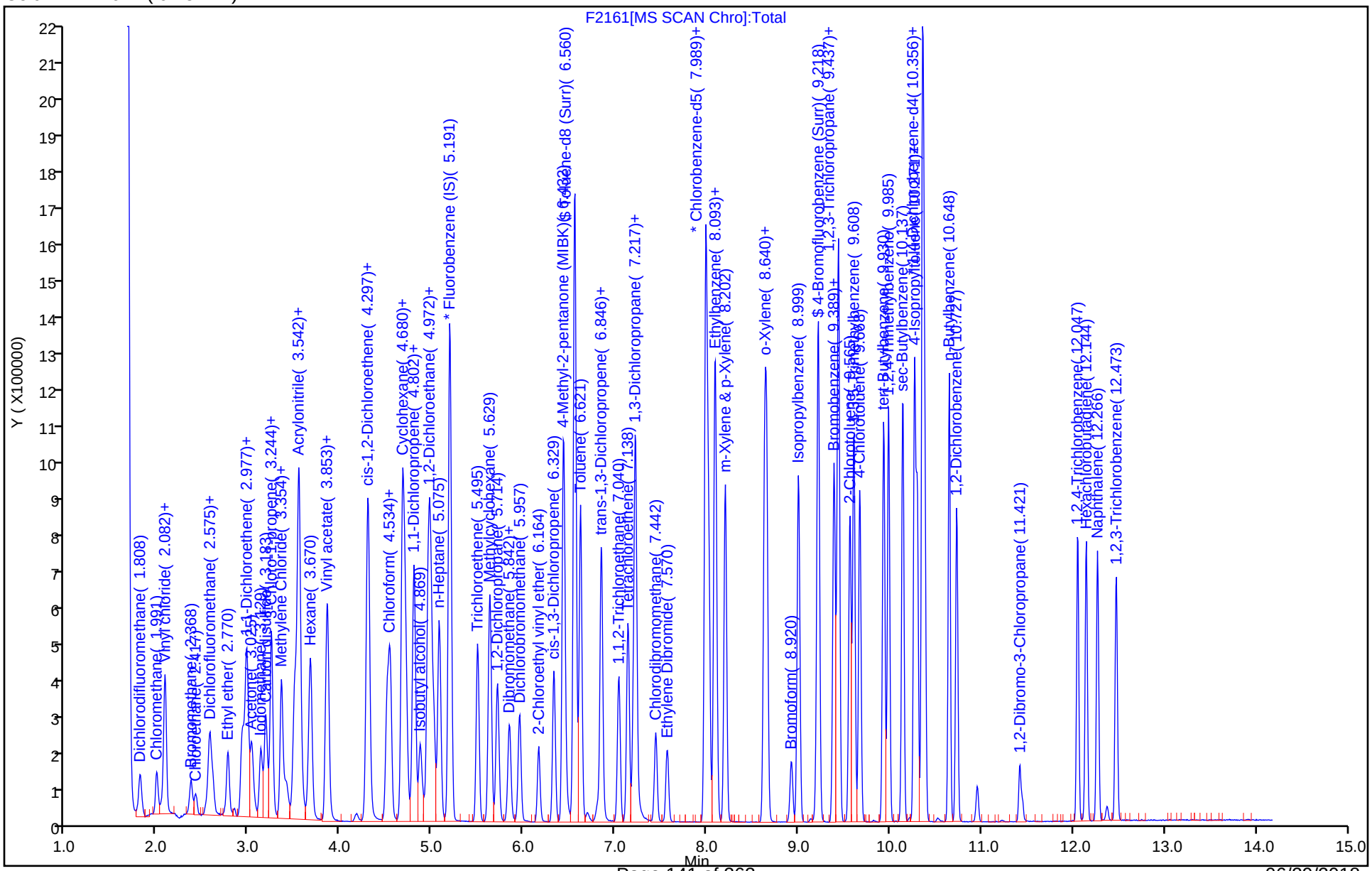
Report Date: 09-May-2018 10:47:18 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D

Injection Date:	08-May-2018 14:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

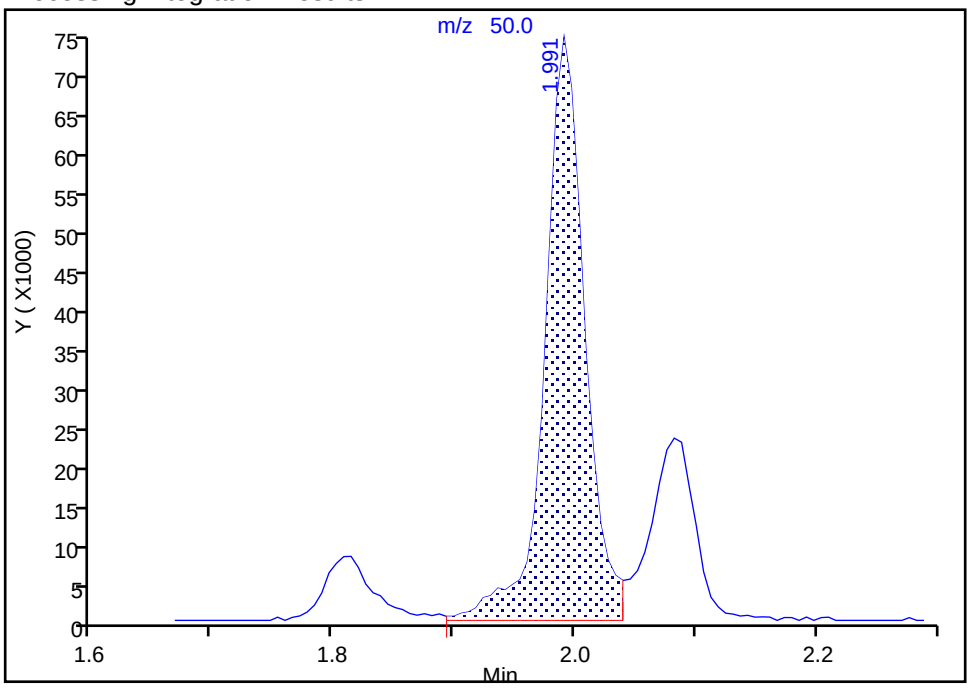
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

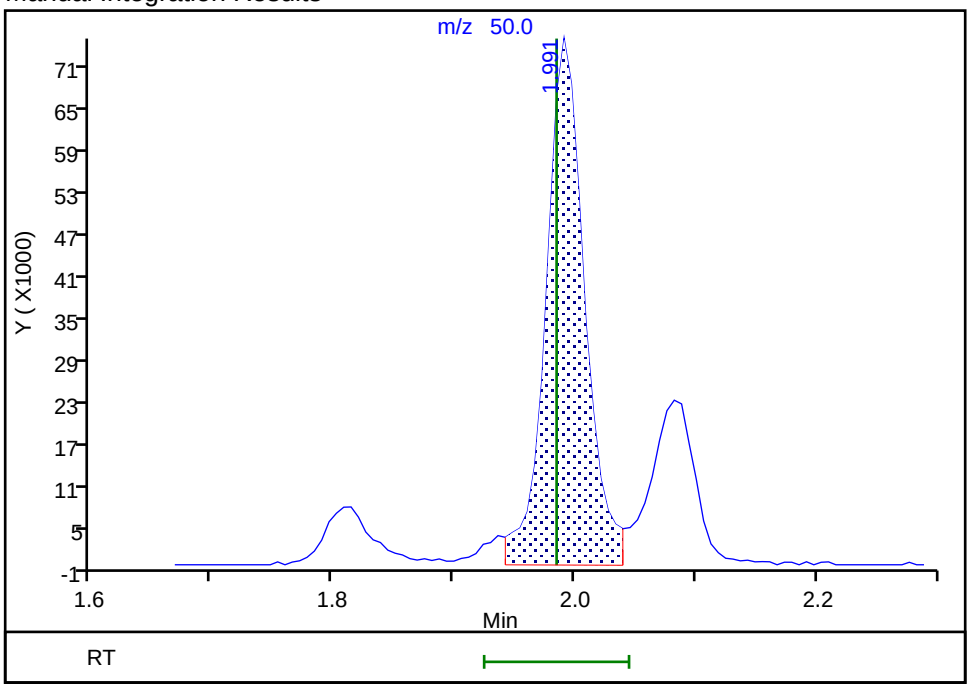
Processing Integration Results

RT: 1.99
Area: 171444
Amount: 21.356586
Amount Units: ug/kg



Manual Integration Results

RT: 1.99
Area: 166326
Amount: 20.813826
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

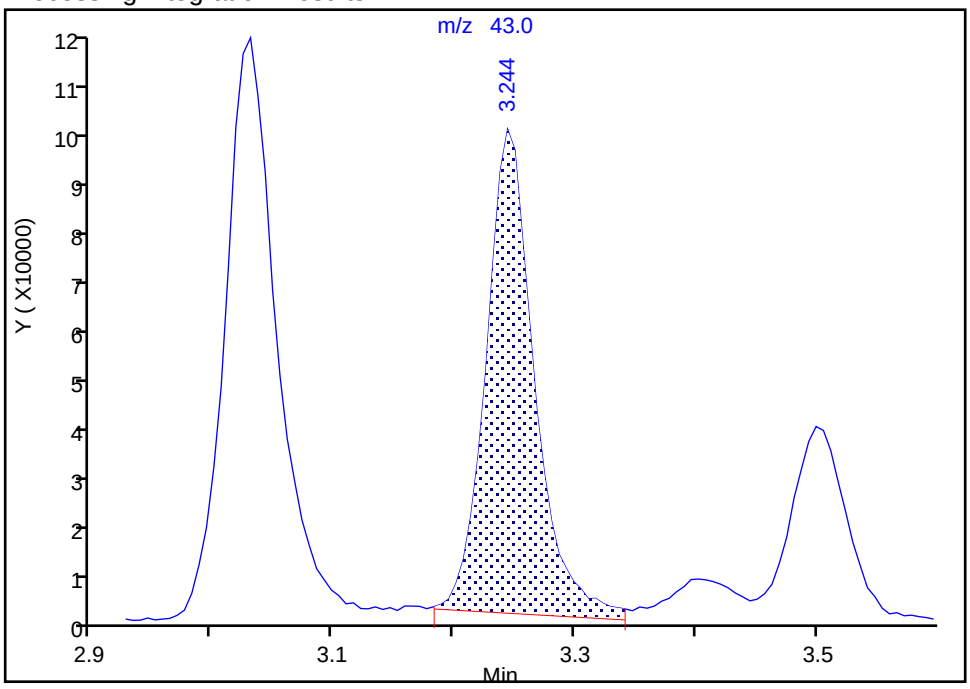
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

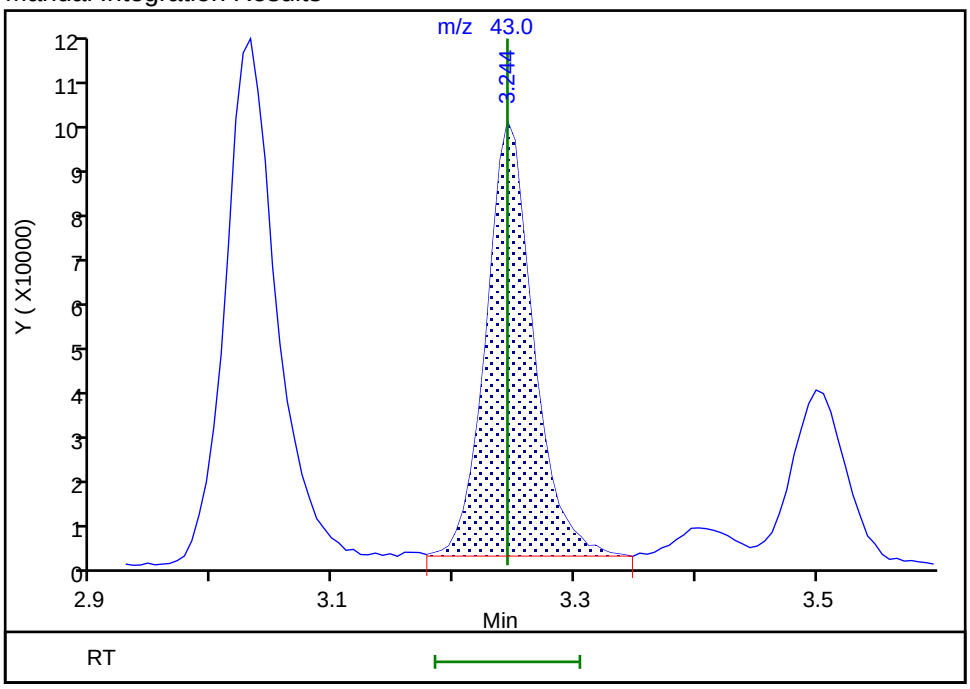
Processing Integration Results

RT: 3.24
Area: 270991
Amount: 43.643834
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 262706
Amount: 43.228108
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

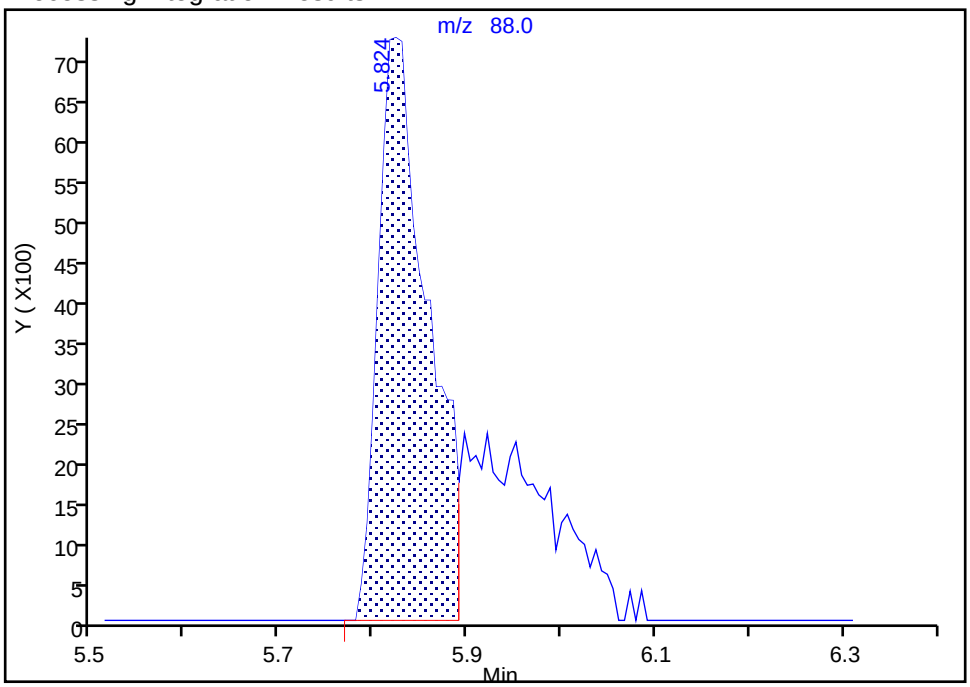
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

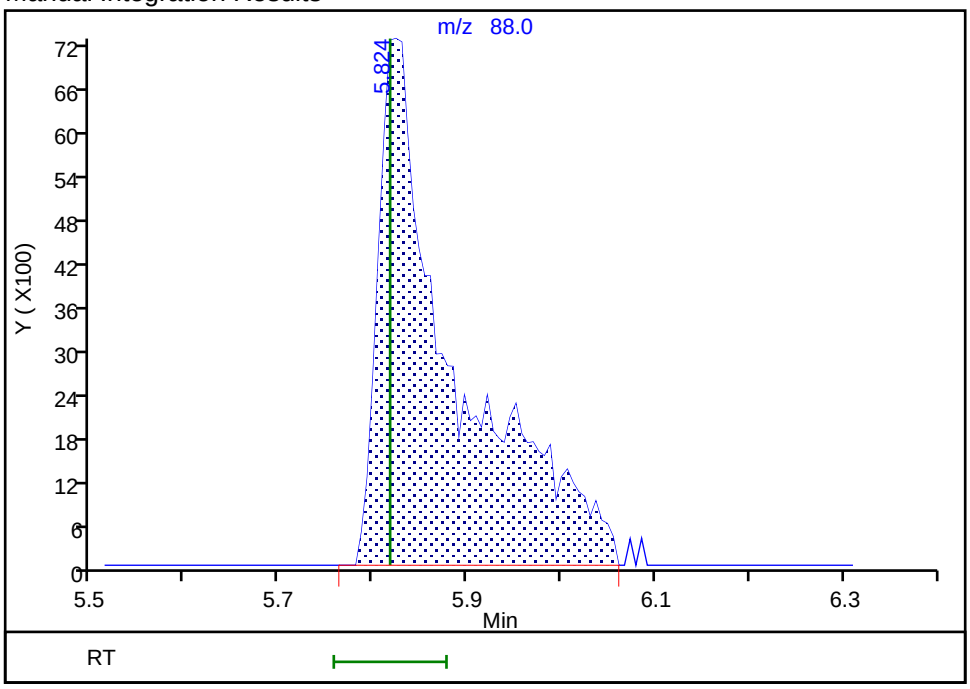
Processing Integration Results

RT: 5.82
Area: 26408
Amount: 296.9586
Amount Units: ug/kg



Manual Integration Results

RT: 5.82
Area: 40837
Amount: 432.9143
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:38:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-May-2018 14:50:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0071332-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:21 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:20:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	317300	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	641190	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	635410	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	383697	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	98	247352	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	94	1487663	50.0	50.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	502957	50.0	50.3	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	506261	50.0	50.5	
12 Chloromethane	50	1.985	1.985	0.000	99	394187	50.0	48.2	
13 Vinyl chloride	62	2.076	2.076	0.000	97	389073	50.0	48.6	
151 Butadiene	54	2.082	2.082	0.000	89	423068	50.0	47.6	
14 Bromomethane	94	2.362	2.362	0.000	91	213610	50.0	47.3	
15 Chloroethane	64	2.417	2.417	0.000	100	170887	50.0	47.2	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	473505	50.0	48.6	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	523065	50.0	49.6	
18 Ethyl ether	59	2.763	2.763	0.000	87	280286	50.0	45.8	
20 Acrolein	56	2.916	2.916	0.000	100	356028	250.0	220.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	402106	50.0	48.8	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	395634	50.0	48.3	
23 Acetone	43	3.025	3.025	0.000	99	722105	250.0	216.8	
25 Iodomethane	142	3.128	3.128	0.000	100	725238	50.0	49.4	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1323471	50.0	50.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	573139	100.0	92.2	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	646522	50.0	49.4	
30 Methylene Chloride	84	3.354	3.354	0.000	91	486638	50.0	50.4	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	412929	500.0	424.9	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	1359349	50.0	47.6	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	457275	50.0	48.5	
33 Acrylonitrile	53	3.548	3.548	0.000	98	1419339	500.0	454.5	
35 Hexane	57	3.670	3.670	0.000	92	715625	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	1692385	100.0	97.2	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	787529	50.0	48.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	97	980697	250.0	226.3	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	72	684267	50.0	49.3	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	504389	50.0	48.7	
48 Chlorobromomethane	128	4.503	4.503	0.000	93	237384	50.0	48.4	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	232108	100.0	87.7	
50 Chloroform	83	4.540	4.540	0.000	93	810041	50.0	48.0	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	98	704160	50.0	49.2	
52 Cyclohexane	56	4.704	4.704	0.000	88	706363	50.0	48.9	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	97	651263	50.0	48.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	98	613133	50.0	50.9	
53 Isobutyl alcohol	43	4.862	4.862	0.000	94	453518	1250.0	1118.6	
57 Benzene	78	4.978	4.978	0.000	97	1782362	50.0	48.8	
58 1,2-Dichloroethane	62	5.014	5.014	0.000	97	662378	50.0	47.5	
59 n-Heptane	43	5.075	5.075	0.000	88	694204	50.0	48.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	472358	50.0	48.5	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	842987	50.0	49.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	417075	50.0	48.8	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	90905	1000.0	953.0	
67 Dibromomethane	93	5.842	5.842	0.000	94	280274	50.0	48.2	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	601975	50.0	50.7	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	254924	50.0	48.6	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	95	725446	50.0	50.1	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	1916594	250.0	235.4	
74 Toluene	92	6.620	6.620	0.000	99	1141602	50.0	49.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	691569	50.0	51.4	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	575124	50.0	49.5	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	317622	50.0	48.6	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	513159	50.0	49.7	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	683791	50.0	49.4	
80 2-Hexanone	43	7.217	7.217	0.000	94	1527085	250.0	240.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	423837	50.0	52.1	
84 Ethylene Dibromide	107	7.563	7.563	0.000	99	410248	50.0	49.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	1234720	50.0	49.7	
88 Ethylbenzene	91	8.087	8.087	0.000	98	2068503	50.0	50.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	417123	50.0	51.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	866603	50.0	49.9	
91 o-Xylene	106	8.628	8.628	0.000	96	808767	50.0	49.7	
92 Styrene	104	8.652	8.652	0.000	94	1434229	50.0	50.5	
95 Bromoform	173	8.920	8.920	0.000	96	275817	50.0	52.1	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	2047429	50.0	49.4	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	76	490044	50.0	47.0	
101 Bromobenzene	156	9.388	9.388	0.000	93	553615	50.0	48.4	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	57	167640	50.0	48.9	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2379752	50.0	49.2	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	79	164888	50.0	46.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	505881	50.0	49.1	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	1774197	50.0	49.7	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	549425	50.0	49.3	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	401791	50.0	49.2	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1815784	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	95	2229369	50.0	49.7	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	1916976	50.0	50.0	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	1049816	50.0	49.3	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	1069081	50.0	48.9	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1725818	50.0	49.9	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	954818	50.0	48.6	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	86	96205	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	637529	50.0	48.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	384742	50.0	48.8	
121 Naphthalene	128	12.266	12.266	0.000	97	1501140	50.0	49.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	585229	50.0	48.5	

Reagents:

F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent
8260 CORP mix_00125	Amount Added: 25.00	Units: uL	
GAS CORP mix_00280	Amount Added: 25.00	Units: uL	

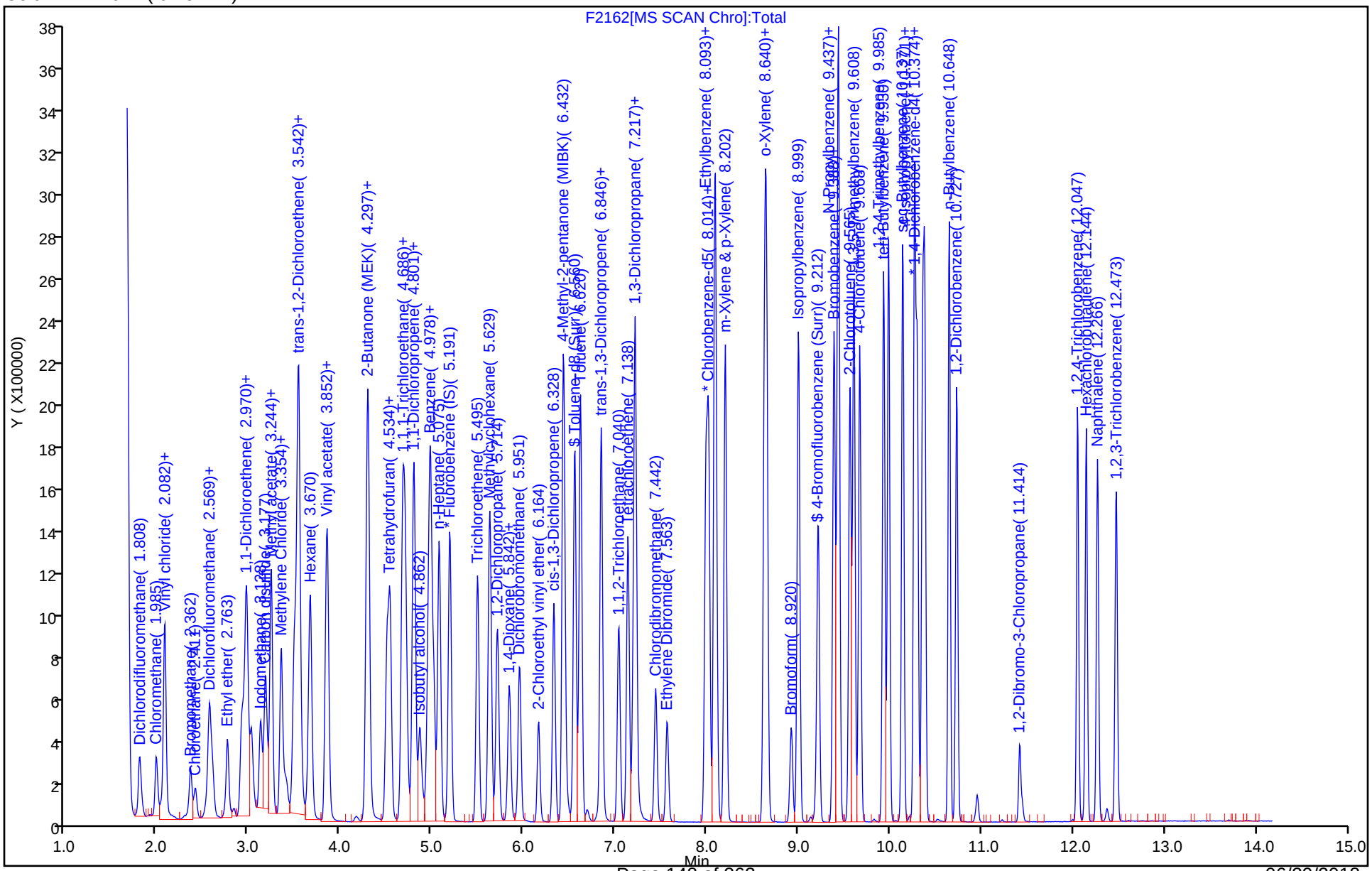
Report Date: 09-May-2018 10:47:24 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D

Injection Date:	08-May-2018 14:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 15:15:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0071332-011
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:27 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:40:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	320803	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	657089	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	664347	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	398932	50.0	50.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	95	258094	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1529884	50.0	50.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	521062	50.0	50.9	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	970484	100.0	95.8	
12 Chloromethane	50	1.991	1.985	0.006	99	760112	100.0	92.0	
13 Vinyl chloride	62	2.082	2.076	0.006	98	735842	100.0	90.9	
151 Butadiene	54	2.088	2.082	0.006	89	770039	100.0	85.6	
14 Bromomethane	94	2.362	2.362	0.000	90	395241	100.0	86.5	M
15 Chloroethane	64	2.417	2.417	0.000	99	308882	100.0	84.4	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	878377	100.0	89.1	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	959534	100.0	89.9	
18 Ethyl ether	59	2.763	2.763	0.000	86	547110	100.0	88.4	
20 Acrolein	56	2.922	2.916	0.006	100	828749	500.0	507.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	792353	100.0	95.0	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	99	773145	100.0	93.4	
23 Acetone	43	3.025	3.025	0.000	100	1728336	500.0	513.3	
25 Iodomethane	142	3.128	3.128	0.000	100	1438044	100.0	97.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	2575399	100.0	96.3	
27 Methyl acetate	43	3.244	3.244	0.000	97	1332522	200.0	212.1	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	1254658	100.0	94.8	
30 Methylene Chloride	84	3.354	3.354	0.000	90	944214	100.0	102.0	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	1117217	1000.0	1137.1	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	2877699	100.0	99.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	906313	100.0	95.1	
33 Acrylonitrile	53	3.548	3.548	0.000	98	3233654	1000.0	1024.2	
35 Hexane	57	3.670	3.670	0.000	91	1379552	100.0	91.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	3563205	200.0	202.3	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	1563343	100.0	95.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	98	2352803	500.0	536.9	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	88	1347299	100.0	95.9	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	79	991447	100.0	94.6	
48 Chlorobromomethane	128	4.503	4.503	0.000	89	489249	100.0	98.6	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	573450	200.0	214.2	
50 Chloroform	83	4.540	4.540	0.000	93	1613060	100.0	94.6	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	1395790	100.0	96.5	
52 Cyclohexane	56	4.710	4.704	0.006	88	1378722	100.0	94.3	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	97	1278846	100.0	95.0	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	1243420	100.0	102.1	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	1196074	2500.0	2917.8	
57 Benzene	78	4.984	4.978	0.006	96	3480851	100.0	94.2	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	97	1357413	100.0	96.3	
59 n-Heptane	43	5.075	5.075	0.000	88	1327032	100.0	91.5	
62 Trichloroethene	95	5.495	5.495	0.000	98	932749	100.0	94.6	
64 Methylcyclohexane	83	5.629	5.629	0.000	87	1652250	100.0	95.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	833564	100.0	96.5	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	218431	2000.0	2234.5	
67 Dibromomethane	93	5.842	5.842	0.000	95	588328	100.0	100.0	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	1249367	100.0	104.0	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	551747	100.0	104.0	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	1482439	100.0	101.3	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	93	4269190	500.0	511.6	
74 Toluene	92	6.620	6.620	0.000	99	2239990	100.0	95.2	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	97	1441202	100.0	104.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	1261468	100.0	105.9	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	665976	100.0	99.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	1007514	100.0	95.2	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	1412885	100.0	99.7	
80 2-Hexanone	43	7.223	7.217	0.006	92	3363984	500.0	516.4	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	931528	100.0	111.7	
84 Ethylene Dibromide	107	7.563	7.563	0.000	98	874036	100.0	102.5	
87 Chlorobenzene	112	8.020	8.020	0.000	94	2424875	100.0	95.2	
88 Ethylbenzene	91	8.087	8.087	0.000	98	3953899	100.0	93.2	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	869371	100.0	105.6	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	1703198	100.0	95.6	
91 o-Xylene	106	8.628	8.628	0.000	95	1621772	100.0	97.3	
92 Styrene	104	8.652	8.652	0.000	94	2859737	100.0	98.3	
95 Bromoform	173	8.920	8.920	0.000	96	653783	100.0	120.6	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	3954109	100.0	91.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.000	79	1084375	100.0	99.4	
101 Bromobenzene	156	9.389	9.388	0.000	92	1122268	100.0	93.9	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	61	372857	100.0	104.0	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	4513616	100.0	89.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	365896	100.0	97.8	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1016130	100.0	94.2	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	95	3438340	100.0	92.0	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	1097958	100.0	94.2	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	790782	100.0	92.6	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	3569277	100.0	93.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	4231777	100.0	90.1	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	3675792	100.0	91.7	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	2106967	100.0	94.6	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	2126360	100.0	93.1	
115 n-Butylbenzene	91	10.648	10.648	0.000	96	3311931	100.0	91.7	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	1953969	100.0	95.2	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	237848	100.0	113.2	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	1339108	100.0	97.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	772533	100.0	93.6	
121 Naphthalene	128	12.266	12.266	0.000	98	3298812	100.0	103.3	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	1248595	100.0	98.9	
S 125 1,2-Dichloroethene, Total	1				0			189.7	
S 126 1,3-Dichloropropene, Total	1				0			205.8	
S 123 Total BTEX	1				0			475.5	
S 124 Xylenes, Total	1				0			192.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 50.00	Units: uL	
GAS CORP mix_00280	Amount Added: 50.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

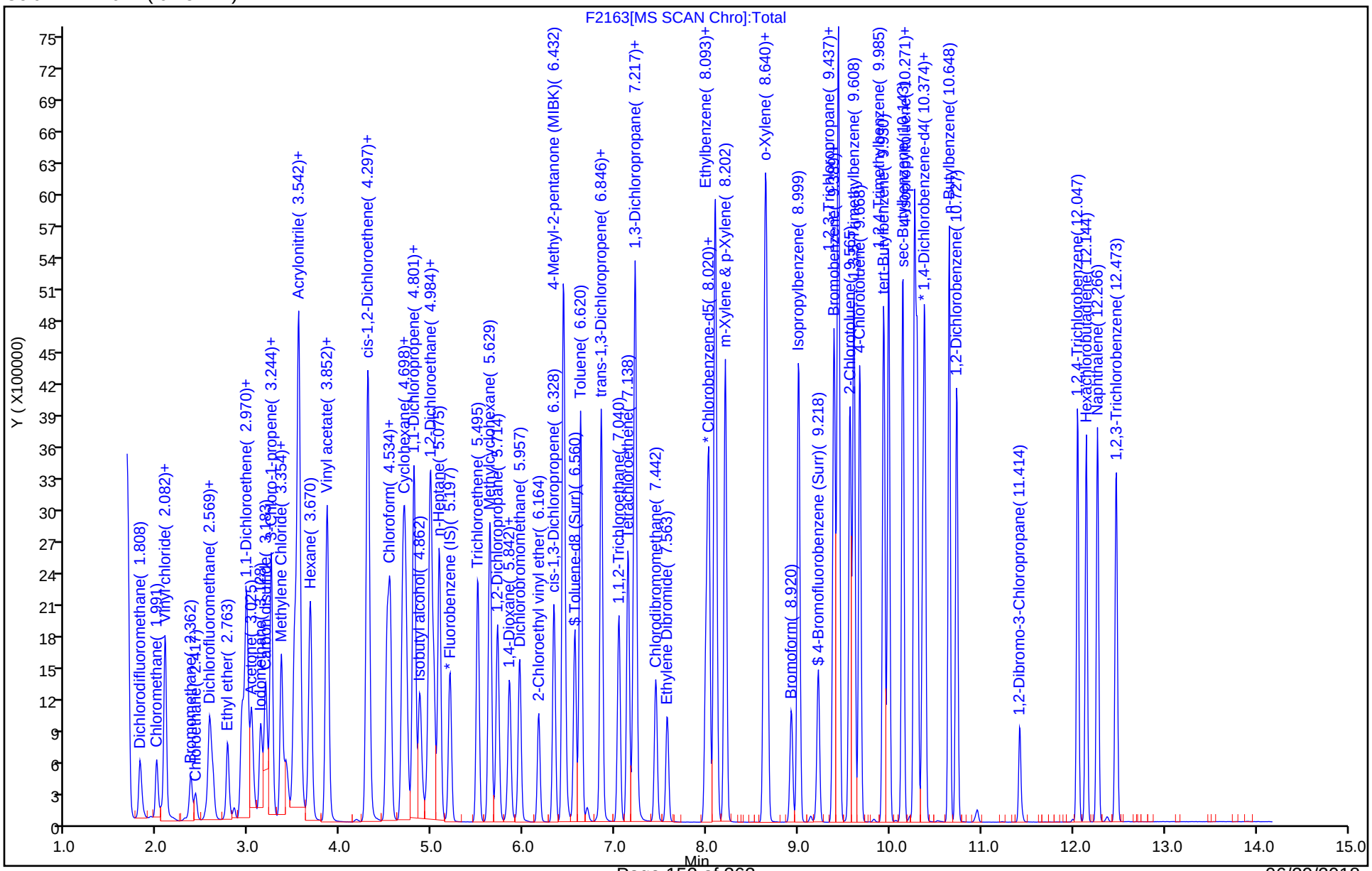
Report Date: 09-May-2018 10:47:31 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D

Injection Date:	08-May-2018 15:15:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

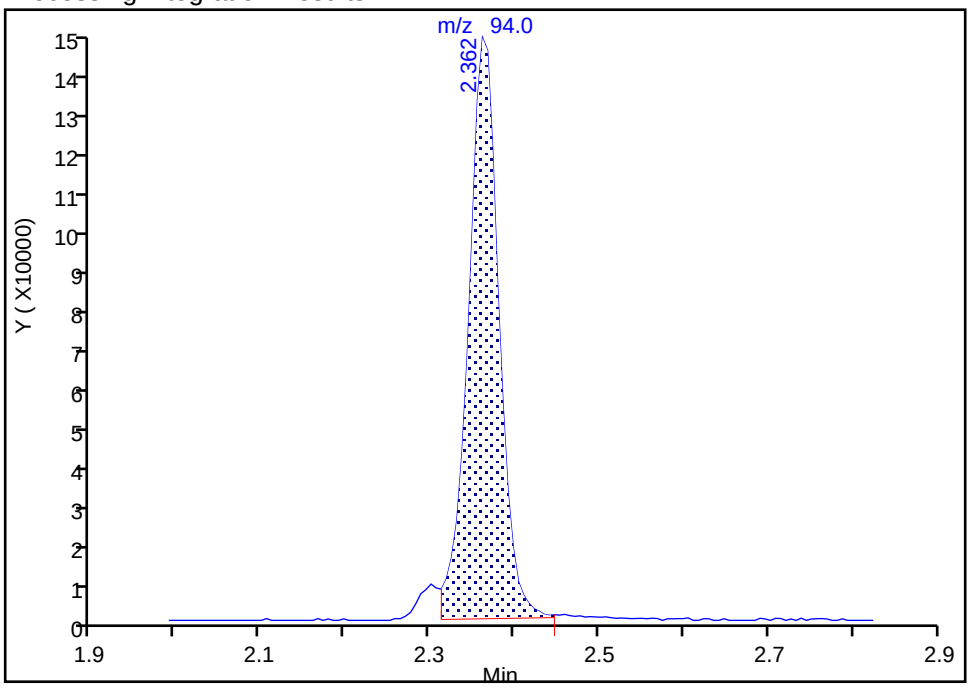
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

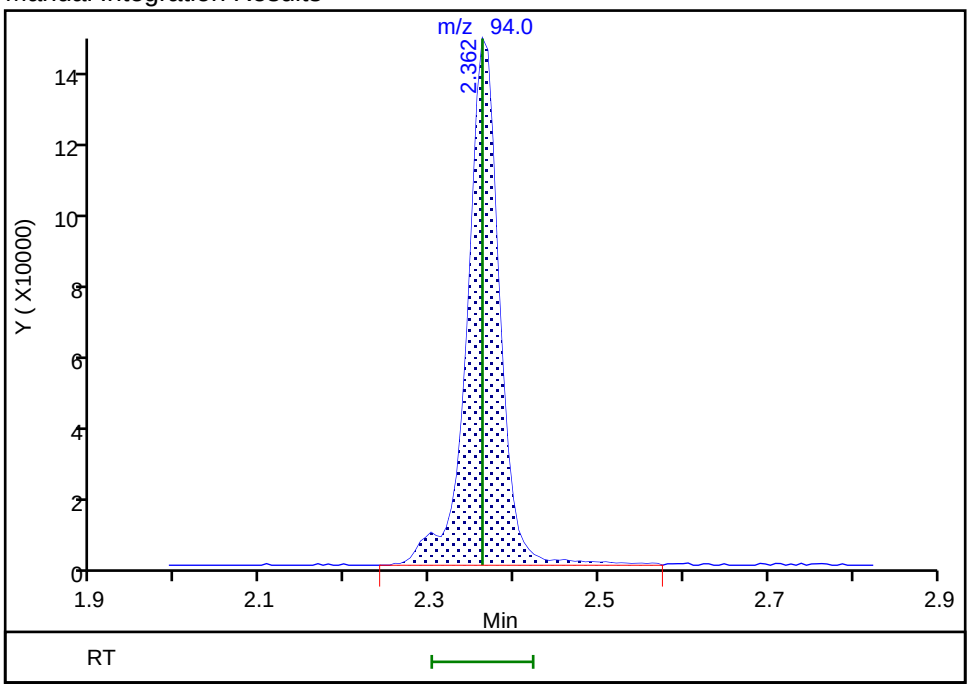
Processing Integration Results

RT: 2.36
Area: 371040
Amount: 81.851484
Amount Units: ug/kg



Manual Integration Results

RT: 2.36
Area: 395241
Amount: 86.530281
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

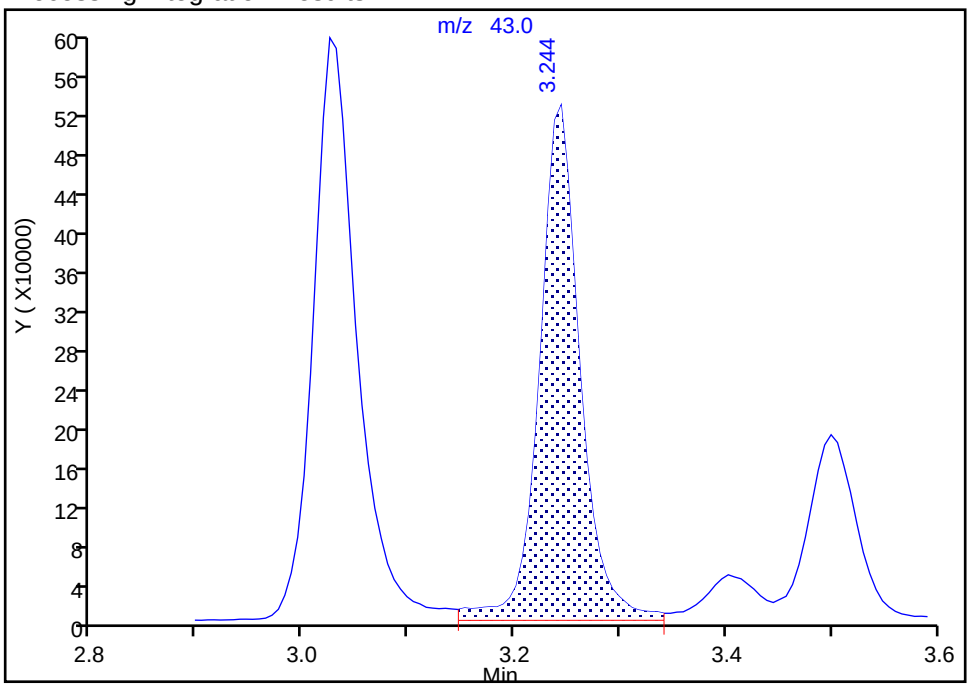
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

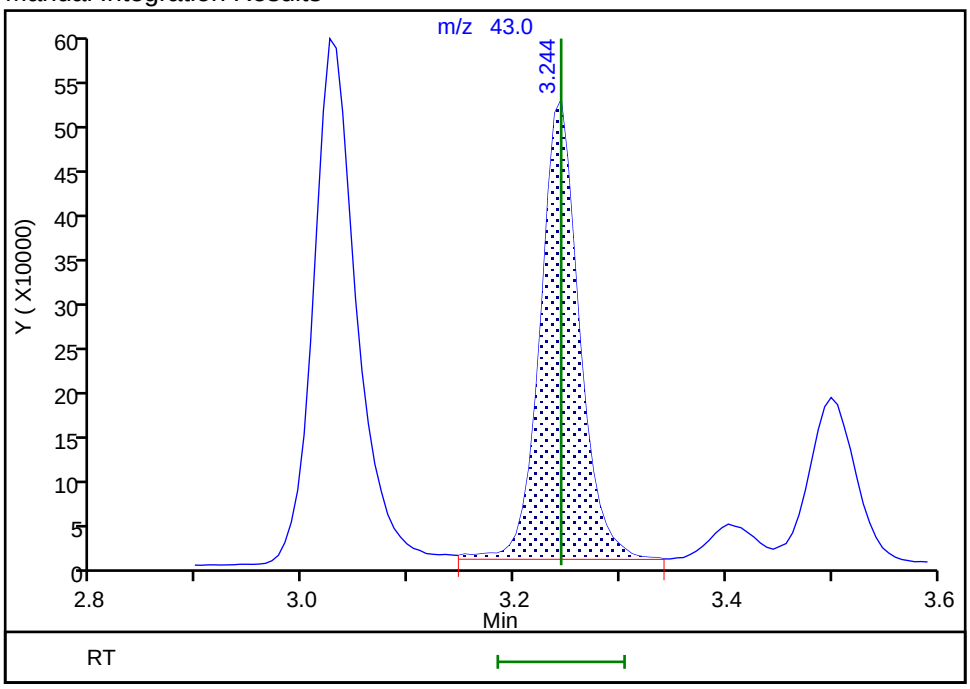
Processing Integration Results

RT: 3.24
Area: 1414006
Amount: 221.3077
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 1332522
Amount: 212.0671
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 15:41:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0071332-012
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:33 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:41:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	326601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	663923	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	672845	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	402086	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	95	253737	50.0	48.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	92	1557059	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	524824	50.0	50.7	
10 Dichlorodifluoromethane	85	1.814	1.808	0.006	99	1870641	200.0	181.4	
12 Chloromethane	50	1.997	1.985	0.012	99	1472544	200.0	175.1	
13 Vinyl chloride	62	2.088	2.076	0.012	98	1460875	200.0	177.3	
151 Butadiene	54	2.094	2.082	0.012	89	1501829	200.0	164.0	
14 Bromomethane	94	2.374	2.362	0.012	90	828372	200.0	178.1	
15 Chloroethane	64	2.423	2.417	0.006	99	651639	200.0	174.9	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1746904	200.0	174.1	
17 Trichlorofluoromethane	101	2.605	2.593	0.012	99	1917931	200.0	176.6	
18 Ethyl ether	59	2.769	2.763	0.006	87	1152714	200.0	182.9	
20 Acrolein	56	2.922	2.916	0.006	100	1515180	1000.0	911.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.952	0.012	93	1527242	200.0	179.9	
22 1,1-Dichloroethene	96	2.982	2.976	0.006	99	1499517	200.0	177.9	
23 Acetone	43	3.031	3.025	0.006	100	3053604	1000.0	890.8	
25 Iodomethane	142	3.135	3.128	0.006	100	2778637	200.0	184.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	4913516	200.0	180.4	
27 Methyl acetate	43	3.244	3.244	0.000	96	2421323	400.0	378.5	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	87	2394553	200.0	177.6	
30 Methylene Chloride	84	3.360	3.354	0.006	89	1805747	200.0	196.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	1866652	2000.0	1866.1	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	5311617	200.0	180.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	1754514	200.0	180.8	
33 Acrylonitrile	53	3.548	3.548	0.000	97	5657949	2000.0	1760.2	
35 Hexane	57	3.670	3.670	0.000	91	2666829	200.0	174.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	6281626	400.0	350.4	
39 1,1-Dichloroethane	63	3.858	3.859	-0.001	96	3001328	200.0	180.9	
43 2-Butanone (MEK)	43	4.296	4.290	0.006	98	4155648	1000.0	931.5	
44 2,2-Dichloropropane	77	4.296	4.290	0.006	89	2599387	200.0	181.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	1931790	200.0	181.1	
48 Chlorobromomethane	128	4.509	4.503	0.006	92	939948	200.0	186.0	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	1013003	400.0	371.6	
50 Chloroform	83	4.546	4.540	0.006	92	3093755	200.0	178.2	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	98	2703792	200.0	183.5	
52 Cyclohexane	56	4.710	4.704	0.006	87	2634538	200.0	177.1	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	96	2445117	200.0	178.5	
55 Carbon tetrachloride	117	4.807	4.808	-0.001	98	2434358	200.0	196.4	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	2077352	5000.0	4977.8	
57 Benzene	78	4.984	4.978	0.006	98	6414236	200.0	170.5	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	98	2549664	200.0	177.7	
59 n-Heptane	43	5.081	5.075	0.006	87	2609005	200.0	176.8	
62 Trichloroethene	95	5.501	5.495	0.006	97	1808222	200.0	180.2	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	3180641	200.0	179.8	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	1630061	200.0	185.4	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	391740	4000.0	3966.1	
67 Dibromomethane	93	5.842	5.842	0.000	95	1123988	200.0	187.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	2437257	200.0	199.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	1054234	200.0	195.3	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	2866859	200.0	192.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	90	7165809	1000.0	850.0	
74 Toluene	92	6.620	6.620	0.000	96	4253584	200.0	178.8	
77 trans-1,3-Dichloropropene	75	6.845	6.846	-0.001	96	2775351	200.0	199.2	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	2367523	200.0	196.6	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	1273909	200.0	188.3	
81 Tetrachloroethene	166	7.137	7.138	-0.001	97	1939047	200.0	181.3	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	2676910	200.0	186.9	
80 2-Hexanone	43	7.223	7.217	0.006	90	5734469	1000.0	871.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	1837784	200.0	218.0	
84 Ethylene Dibromide	107	7.569	7.563	0.006	99	1660134	200.0	192.6	
87 Chlorobenzene	112	8.020	8.020	0.000	92	4530079	200.0	176.0	
88 Ethylbenzene	91	8.087	8.087	0.000	97	6999358	200.0	163.3	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	1692523	200.0	203.4	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	96	3286708	200.0	182.7	
91 o-Xylene	106	8.634	8.628	0.006	95	3086903	200.0	183.3	
92 Styrene	104	8.652	8.652	0.000	92	5344805	200.0	181.9	
95 Bromoform	173	8.920	8.920	0.000	96	1309515	200.0	239.0	
94 Isopropylbenzene	105	8.999	8.999	0.000	97	7035681	200.0	160.3	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	93	2001615	200.0	181.2	
101 Bromobenzene	156	9.388	9.388	0.000	91	2138796	200.0	176.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	49	678115	200.0	186.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	95	7640594	200.0	149.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	67	672880	200.0	177.6	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1949120	200.0	178.5	
102 1,3,5-Trimethylbenzene	105	9.607	9.608	-0.001	95	6140462	200.0	162.3	
105 4-Chlorotoluene	126	9.668	9.668	0.000	96	2120077	200.0	179.5	
106 tert-Butylbenzene	134	9.930	9.930	0.000	91	1524919	200.0	176.3	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	6276260	200.0	161.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	7170684	200.0	150.8	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	93	6350065	200.0	156.4	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	96	3902824	200.0	173.0	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	92	3967003	200.0	171.4	
115 n-Butylbenzene	91	10.648	10.648	0.000	93	5784281	200.0	158.1	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	95	3628583	200.0	174.5	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	447122	200.0	210.1	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	95	2481204	200.0	178.8	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	1434094	200.0	171.6	
121 Naphthalene	128	12.266	12.266	0.000	99	5624161	200.0	173.8	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	2318537	200.0	181.3	
S 125 1,2-Dichloroethene, Total	1				0			361.9	
S 126 1,3-Dichloropropene, Total	1				0			391.5	
S 123 Total BTEX	1				0			878.6	
S 124 Xylenes, Total	1				0			366.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 100.00	Units: uL	
GAS CORP mix_00280	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

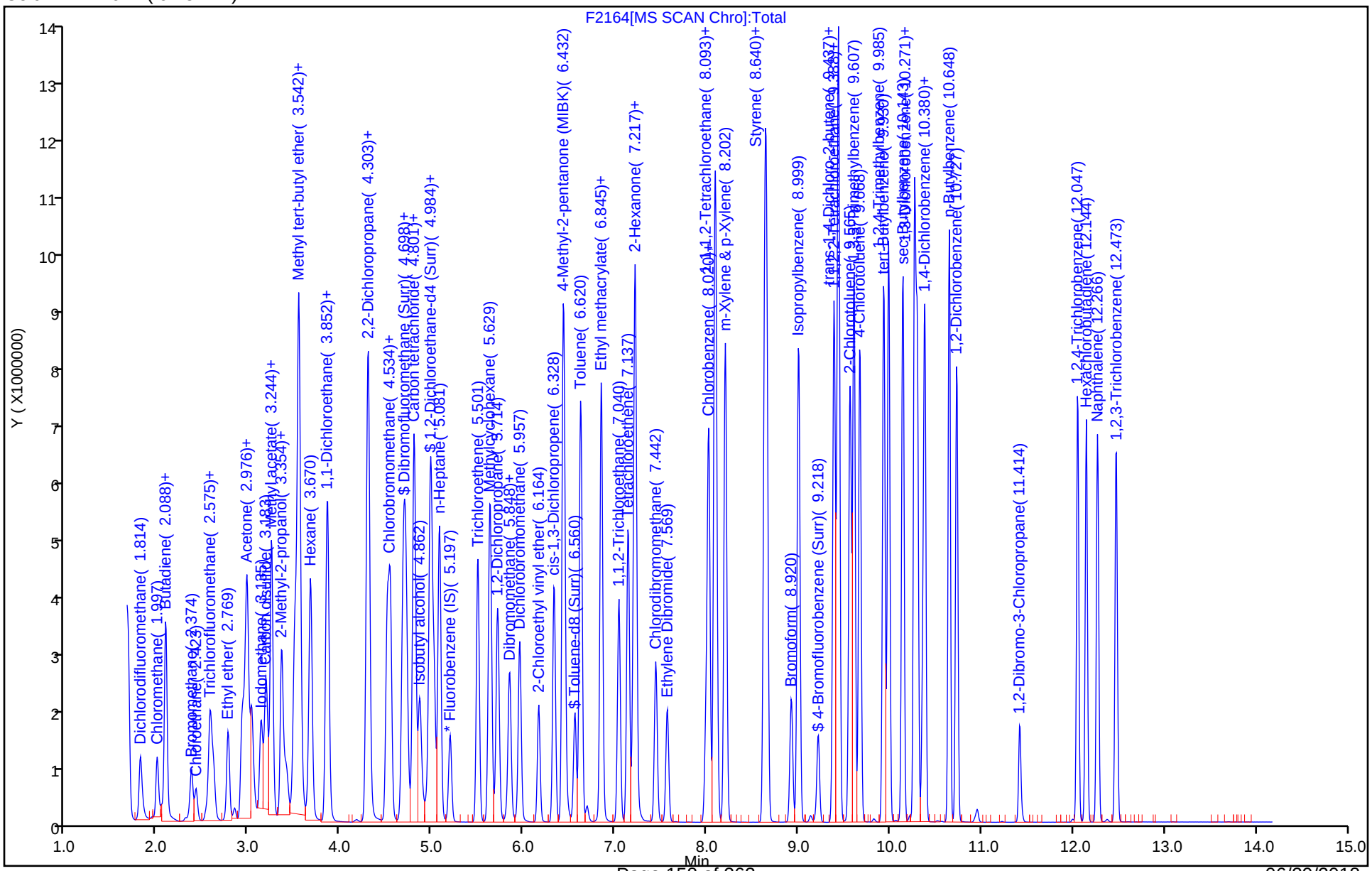
Report Date: 09-May-2018 10:47:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D

Injection Date:	08-May-2018 15:41:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

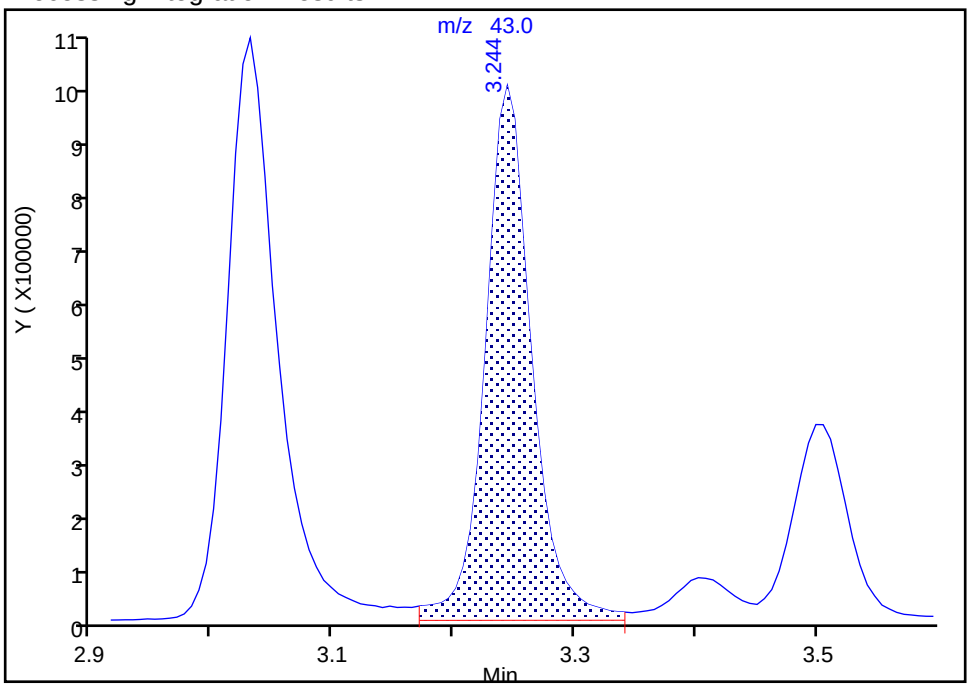
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Injection Date: 08-May-2018 15:41:30 Instrument ID: HP5973F
Lims ID: IC 7
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

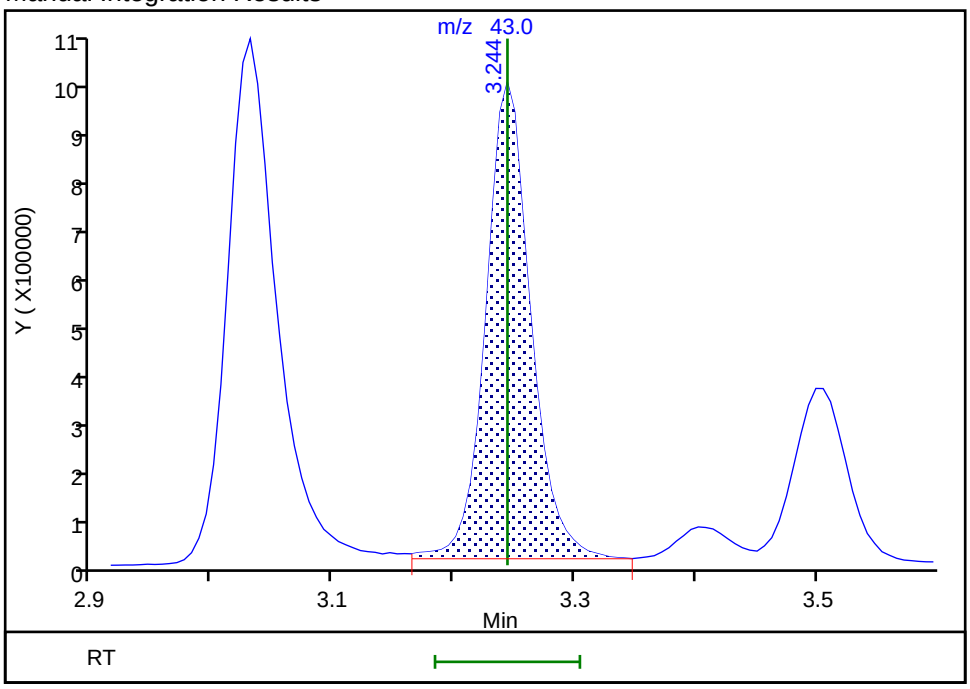
Processing Integration Results

RT: 3.24
Area: 2557087
Amount: 396.7218
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 2421323
Amount: 378.5059
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:40:43
Audit Action: Manually Integrated Audit Reason: Baseline

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-419847/7	N0609.D
Level 2	IC 480-419847/8	N0610.D
Level 3	IC 480-419847/9	N0611.D
Level 4	IC 480-419847/10	N0612.D
Level 5	IC 480-419847/11	N0613.D
Level 6	ICIS 480-419847/12	N0614.D
Level 7	IC 480-419847/13	N0615.D
Level 8	IC 480-419847/14	N0616.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6048 1.5283	1.1716 1.5152	1.5672 1.6367	1.6745	1.3077	Ave		1.5008			0.1000	11.6		20.0			
Chloromethane	2.2119 2.0008	1.9999 2.0197	2.2080 2.0954	2.0322	2.0349	Ave		2.0754			0.1000	4.3		20.0			
Vinyl chloride	2.1009 1.6138	1.7831 1.5765	1.9150 1.6734	1.7073	1.5508	Ave		1.7401			0.1000	10.8		20.0			
Butadiene	2.0592 1.5910	2.0324 1.6016	1.8293 1.7158	1.8317	1.5456	Ave		1.7758				11.1		20.0			
Bromomethane	0.9064 0.9143	1.0918 0.8592	1.0678 0.8929	1.0164	0.9133	Ave		0.9578			0.1000	9.2		20.0			
Chloroethane	0.8162 0.8486	1.0764 0.8481	0.7968 0.8725	0.9215	0.8422	Ave		0.8778			0.1000	10.1		20.0			
Trichlorofluoromethane	1.8982 1.9653	1.8627 1.9673	1.9899 2.1008	2.0747	1.9855	Ave		1.9805			0.1000	4.0		20.0			
Dichlorofluoromethane	+++++ 2.1442	2.1411 2.1008	2.3486 2.1623	2.2270	2.0158	Ave		2.1628				4.8		20.0			
Ethyl ether	1.6917 1.5598	1.7078 1.4684	1.4667 1.5556	1.5609	1.5905	Ave		1.5752				5.6		20.0			
Acrolein	0.3476 0.2785	0.2491 0.2653	0.2617 0.2880	0.2793	0.2584	Ave		0.2785				11.0		20.0			
1,1-Dichloroethene	+++++ 1.1988	1.2206 1.1753	1.2936 1.3185	1.5260	1.3804	Ave		1.3019			0.1000	9.4		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 1.1420	0.8867 1.1113	1.1469 1.3227	1.3124	1.3597	Ave		1.1831			0.1000	13.9		20.0			
Acetone	+++++ 0.4975	0.5579 0.4183	0.5499 0.5466	0.5118	0.4275	Ave		0.5014			0.1000	11.5		20.0			
Iodomethane	1.8171 2.4486	2.1928 2.3655	2.5253 2.5333	2.6747	2.5914	Ave		2.3936				11.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.2860 4.0695	3.0269 3.9494	4.5273 4.3129	4.3488	4.6160	Ave		4.0171			0.1000	14.4		20.0			
Allyl chloride	2.4593 2.8111	3.0102 2.7053	2.8031 2.9608	2.9076	3.0227	Ave		2.8350				6.6		20.0			
Methyl acetate	+++++ 1.8091	2.0088 1.5434	1.6359 1.7646	1.7578	1.6729	Ave		1.7418			0.1000	8.5		20.0			
Methylene Chloride	+++++ 1.5791	2.7929 1.5130	2.1521 1.5640	1.8937	1.7151	Lin1	1.3234	1.5336			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1199 0.1188	0.1263 0.1054	0.1088 0.1492	0.1102	0.1107	Ave		0.1186				11.9		20.0			
Methyl tert-butyl ether	4.8327 4.9655	4.5081 4.8156	4.4435 4.9891	5.0514	5.1204	Ave		4.8408			0.1000	5.1		20.0			
trans-1,2-Dichloroethene	1.5199 1.5107	1.5175 1.3949	1.6687 1.5080	1.6299	1.5428	Ave		1.5365			0.1000	5.4		20.0			
Acrylonitrile	0.7431 0.8240	0.6626 0.8254	0.7871 0.9170	0.7863	0.9138	Ave		0.8074				10.5		20.0			
Hexane	2.6069 2.2365	2.0747 2.0653	2.4798 2.5289	2.5866	2.6737	Ave		2.4065				10.2		20.0			
1,1-Dichloroethane	2.9462 2.9170	2.7343 2.7497	2.6078 2.9856	3.0422	3.1274	Ave		2.8888			0.2000	6.1		20.0			
Vinyl acetate	2.9655 3.2711	3.1360 3.1518	2.7969 3.4483	3.4903	3.3959	Ave		3.2070				7.6		20.0			
2,2-Dichloropropane	2.1222 1.8639	1.8183 1.7891	1.9908 1.9196	2.2054	1.9785	Ave		1.9610				7.4		20.0			
cis-1,2-Dichloroethene	1.4577 1.6965	1.6211 1.6086	1.7473 1.7365	1.7801	1.8356	Ave		1.6854			0.1000	7.1		20.0			
2-Butanone (MEK)	0.8229 1.0124	0.7832 0.9452	0.7833 1.1499	0.9278	0.9273	Ave		0.9190			0.1000	13.6		20.0			
Chlorobromomethane	0.8786 0.8990	0.7456 0.8332	0.8539 0.9098	0.9079	0.8977	Ave		0.8657				6.4		20.0			
Tetrahydrofuran	0.8352 0.6705	0.7770 0.6726	0.5651 0.7683	0.7400	0.6491	Ave		0.7097				12.2		20.0			
Chloroform	2.9185 2.6327	2.3656 2.5401	2.6039 2.7147	2.7395	2.8947	Ave		2.6762			0.2000	6.8		20.0			
1,1,1-Trichloroethane	2.2057 2.1185	2.1466 2.1122	2.2225 2.3027	2.3520	2.3853	Ave		2.2307			0.1000	4.7		20.0			
Cyclohexane	2.6859 2.5595	2.5093 2.4750	2.7811 2.8479	2.6001	2.9419	Ave		2.6751			0.1000	6.3		20.0			
Carbon tetrachloride	1.7300 1.8293	1.6678 1.8432	1.8448 2.0888	2.0838	2.0804	Ave		1.8960			0.1000	8.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	2.0671 1.8868	1.5960 1.8192	1.8077 2.0385	2.2431	2.1721	Ave		1.9538				11.0		20.0			
Isobutyl alcohol	+++++ 0.0875	0.1269 0.0838	0.0933 0.1023	0.1070	0.0944	Ave		0.0993				14.7		20.0			
Benzene	5.1455 5.6934	5.5007 5.4327	5.8124 5.9556	5.9842	6.1070	Ave		5.7039			0.5000	5.7		20.0			
1,2-Dichloroethane	2.8551 2.4837	2.4382 2.3569	2.5811 2.5576	2.5984	2.6135	Ave		2.5606			0.1000	5.8		20.0			
n-Heptane	2.0454 2.4604	2.1602 2.3806	2.0905 2.7707	2.6534	2.9364	Ave		2.4372				13.5		20.0			
Trichloroethene	1.3304 1.5472	1.4559 1.4839	1.5763 1.6369	1.6891	1.6758	Ave		1.5494			0.2000	7.9		20.0			
Methylcyclohexane	1.9020 2.4372	2.0119 2.3402	2.5818 2.6403	2.8210	2.9043	Ave		2.4548			0.1000	14.6		20.0			
1,2-Dichloropropane	1.5223 1.5512	1.4347 1.4819	1.5488 1.5972	1.5870	1.6750	Ave		1.5498			0.1000	4.8		20.0			
Dibromomethane	1.0011 1.0164	0.9821 1.0086	1.0108 1.0844	1.0341	1.0922	Ave		1.0287			0.1000	3.8		20.0			
1,4-Dioxane	0.0046 0.0053	0.0039 0.0050	0.0048 0.0051	0.0059	0.0058	Ave		0.0051				13.0		20.0			
Bromodichloromethane	1.4933 1.9495	1.6430 1.9155	1.9117 2.1655	2.0405	2.1662	Ave		1.9106			0.2000	12.4		20.0			
2-Chloroethyl vinyl ether	0.9236 1.1111	0.9794 1.0832	0.9395 1.2494	1.0778	1.0895	Ave		1.0567				10.1		20.0			
cis-1,3-Dichloropropene	2.0722 2.2523	1.9617 2.2042	1.9596 2.4515	2.2758	2.4095	Ave		2.1983			0.2000	8.5		20.0			
4-Methyl-2-pentanone (MIBK)	0.1806 0.2102	0.1892 0.1996	0.1843 0.2126	0.2148	0.2068	Ave		0.1998			0.1000	6.7		20.0			
Toluene	0.9226 0.9656	0.9220 0.8945	0.9412 0.9700	1.0396	1.0525	Ave		0.9635			0.4000	5.9		20.0			
trans-1,3-Dichloropropene	0.4771 0.5520	0.4719 0.5423	0.4397 0.5796	0.5192	0.5477	Ave		0.5162			0.1000	9.4		20.0			
Ethyl methacrylate	0.5066 0.4971	0.4008 0.4872	0.4340 0.5063	0.4756	0.4875	Ave		0.4744				8.0		20.0			
1,1,2-Trichloroethane	0.2481 0.2824	0.2412 0.2714	0.2641 0.2829	0.3048	0.2916	Ave		0.2733			0.1000	7.9		20.0			
Tetrachloroethene	0.4213 0.4130	0.3975 0.3984	0.4163 0.4323	0.4514	0.4493	Ave		0.4224			0.2000	4.9		20.0			
1,3-Dichloropropane	0.5712 0.5958	0.5815 0.5577	0.5554 0.5912	0.6247	0.6275	Ave		0.5881				4.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.3478 0.3958	0.3081 0.3688	0.3373 0.4018	0.3867	0.4013	Ave		0.3685			0.1000	9.4		20.0			
Dibromochloromethane	0.3402 0.4082	0.3505 0.3932	0.3714 0.4290	0.3982	0.4022	Ave		0.3866			0.1000	7.8		20.0			
1,2-Dibromoethane	0.3012 0.3891	0.3302 0.3653	0.3259 0.3846	0.3830	0.3974	Ave		0.3596				9.9		20.0			
Chlorobenzene	1.0865 1.1191	0.9992 1.0606	1.0732 1.1300	1.1284	1.1709	Ave		1.0960			0.5000	4.8		20.0			
1,1,1,2-Tetrachloroethane	0.4171 0.4169	0.3755 0.3945	0.3594 0.4107	0.3893	0.4186	Ave		0.3977				5.5		20.0			
Ethylbenzene	1.8094 1.7469	1.5899 1.6899	1.7134 1.8003	1.9358	1.9547	Ave		1.7800			0.1000	6.9		20.0			
m,p-Xylene	0.6846 0.7057	0.5513 0.6725	0.6729 0.7070	0.7233	0.7031	Ave		0.6775			0.1000	8.0		20.0			
o-Xylene	0.7000 0.7053	0.7426 0.6785	0.6542 0.7026	0.7259	0.7290	Ave		0.7048			0.3000	4.1		20.0			
Styrene	0.9654 1.1772	1.0483 1.1292	1.1081 1.1765	1.2358	1.2483	Ave		1.1361			0.3000	8.4		20.0			
Bromoform	0.2030 0.2602	0.2912 0.2545	0.2085 0.2890	0.2420	0.2485	Ave		0.2496			0.1000	13.0		20.0			
Isopropylbenzene	3.2904 3.5893	3.1746 3.6430	3.5630 3.8478	3.7429	3.8268	Ave		3.5847			0.1000	6.8		20.0			
Bromobenzene	0.9130 0.9021	0.9195 0.9195	0.9208 0.9777	0.9133	0.9788	Ave		0.9306				3.2		20.0			
1,1,2,2-Tetrachloroethane	0.9473 0.9714	0.8457 0.9497	0.9744 0.9742	0.9609	0.9695	Ave		0.9491			0.3000	4.5		20.0			
1,2,3-Trichloropropane	0.2497 0.3174	0.3531 0.3151	0.3411 0.3195	0.3093	0.3396	Ave		0.3181				9.9		20.0			
trans-1,4-Dichloro-2-butene	0.3513 0.3564	0.3902 0.3628	0.2976 0.3910	0.3298	0.3422	Ave		0.3527				8.7		20.0			
N-Propylbenzene	3.3798 4.0972	3.7975 4.1526	4.0210 4.3493	4.4596	4.3999	Ave		4.0821				8.8		20.0			
2-Chlorotoluene	0.6520 0.8807	0.6838 0.8805	0.8530 0.9374	0.9463	0.9558	Ave		0.8487				13.9		20.0			
1,3,5-Trimethylbenzene	2.5906 2.9427	2.5213 2.9675	2.9013 3.0974	3.0037	3.0881	Ave		2.8891				7.5		20.0			
4-Chlorotoluene	2.4550 2.7955	2.4690 2.7296	2.6491 2.8758	2.9453	2.8659	Ave		2.7232				6.8		20.0			
tert-Butylbenzene	0.6776 0.6972	0.6604 0.6950	0.6774 0.7343	0.6922	0.7275	Ave		0.6952				3.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.6439 3.0364	2.8311 3.0707	2.9873 3.1739	3.2054	3.1842	Ave		3.0166				6.5		20.0			
sec-Butylbenzene	3.4237 3.8488	3.3612 3.8366	3.8152 3.9828	3.8934	4.0777	Ave		3.7799				6.7		20.0			
1,3-Dichlorobenzene	1.5863 1.7526	1.7422 1.7444	1.6580 1.8047	1.7945	1.8031	Ave		1.7357			0.6000	4.4		20.0			
4-Isopropyltoluene	2.8244 3.3607	2.8682 3.3185	3.2989 3.3854	3.4024	3.6243	Ave		3.2604				8.4		20.0			
1,4-Dichlorobenzene	1.4802 1.7607	1.6854 1.7500	1.8003 1.8140	1.8392	1.8569	Ave		1.7483			0.5000	6.9		20.0			
n-Butylbenzene	2.7218 2.9981	2.5849 2.9107	2.8006 2.9143	3.0636	3.1934	Ave		2.8984				6.7		20.0			
1,2-Dichlorobenzene	1.7090 1.7108	1.4779 1.7042	1.5746 1.7306	1.7704	1.7740	Ave		1.6814			0.4000	6.1		20.0			
1,2-Dibromo-3-Chloropropane	0.1344 0.1950	0.1323 0.2037	0.1627 0.2196	0.2012	0.1950	Ave		0.1805			0.0500	18.3		20.0			
1,2,4-Trichlorobenzene	0.9588 1.2311	0.9087 1.2125	1.0761 1.1990	1.1781	1.2236	Ave		1.1235			0.2000	11.3		20.0			
Hexachlorobutadiene	0.5993 0.5124	0.4826 0.5016	0.4959 0.4798	0.5312	0.5847	Ave		0.5235				8.7		20.0			
Naphthalene	2.6492 3.6466	2.7445 3.6412	2.9038 3.7584	3.3682	3.4820	Ave		3.2742				13.5		20.0			
1,2,3-Trichlorobenzene	0.8392 1.1135	0.8994 1.1052	0.9519 1.1128	1.1482	1.0879	Ave		1.0323				11.4		20.0			
Dibromofluoromethane (Surr)	1.4242 1.4375	1.4388 1.3943	1.4034 1.4446	1.4279	1.4593	Ave		1.4288				1.5		20.0			
1,2-Dichloroethane-d4 (Surr)	1.8327 1.7467	1.8545 1.7131	1.7336 1.7690	1.7945	1.7946	Ave		1.7798				2.7		20.0			
Toluene-d8 (Surr)	1.3504 1.3143	1.2886 1.2794	1.3087 1.2913	1.3746	1.3444	Ave		1.3190				2.6		20.0			
4-Bromofluorobenzene (Surr)	0.4209 0.4080	0.4116 0.3916	0.4087 0.4020	0.4265	0.4240	Ave		0.4117				2.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-419847/7	N0609.D
Level 2	IC 480-419847/8	N0610.D
Level 3	IC 480-419847/9	N0611.D
Level 4	IC 480-419847/10	N0612.D
Level 5	IC 480-419847/11	N0613.D
Level 6	ICIS 480-419847/12	N0614.D
Level 7	IC 480-419847/13	N0615.D
Level 8	IC 480-419847/14	N0616.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	6707 319774	9545 657528	26117 1390682	68855	110099	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	9244 418638	16293 876454	36796 1780451	83566	171322	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	8780 337661	14527 684112	31913 1421907	70203	130563	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	8606 332885	16558 695038	30485 1457946	75318	130125	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3788 191300	8895 372837	17795 758729	41794	76892	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	3411 177558	8769 368033	13279 741369	37891	70907	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	7933 411209	15175 853724	33160 1785046	85312	167163	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	+++++ 448648	17443 911652	39139 1837338	91573	169715	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	7070 326365	13913 637232	24441 1321838	64186	133906	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	7263 291397	10146 575599	21808 1223513	57416	108763	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 250826	9944 510028	21557 1120375	62751	116216	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 238951	7224 482263	19112 1123893	53966	114473	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++ 520431	22724 907666	45821 2322360	105224	179950	+++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	7594 512336	17864 1026527	42083 2152554	109983	218174	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13733 851468	24660 1713849	75445 3664680	178823	388626	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10278 588173	24524 1173991	46712 2515834	119560	254490	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	+++++ 757068	32730 1339552	54523 2998714	144563	281694	+++++ 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	+++++ 330401	22753 656584	35863 1328951	77869	144396	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	5010 248467	10287 457254	18137 1267574	45314	93203	5.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	20197 1038953	36727 2089723	74049 4239234	207713	431095	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	6352 316095	12363 605317	27808 1281314	67022	129889	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	31056 1724190	53981 3581632	131174 7792194	323306	769339	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	10895 467950	16902 896243	41324 2148797	106360	225103	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	12313 610341	22276 1193228	43458 2536912	125094	263304	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	24787 1368862	51097 2735457	93218 5859986	287039	571819	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	8869 389996	14813 776390	33175 1631081	90686	166572	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	6092 354967	13207 698069	29118 1475550	73196	154543	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	17196 1059148	31904 2050834	65267 4885164	190756	390353	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	3672 188103	6074 361579	14230 773025	37331	75577	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	6981 280599	12661 583756	18835 1305592	60859	109305	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	12197 550860	19272 1102273	43392 2306711	112648	243709	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	9218 443261	17488 916610	37037 1956580	96715	200819	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	11225 535534	20443 1074024	46345 2419845	106915	247681	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	7230 382759	13587 799858	30743 1774881	85685	175156	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	8639 394792	13002 789442	30124 1732109	92236	182874	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isobutyl alcohol	FB	Ave	+++++ 457534	25844 908655	38851 2173699	109948	198597	+++++ 625	25.0 1250	50.0 2500	125	250

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Benzene	FB	Ave	21504 1191244	44813 2357523	96861 5060498	246072	514157	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloroethane	FB	Ave	11932 519669	19864 1022784	43013 2173200	106848	220037	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	8548 514789	17599 1033063	34837 2354295	109109	247221	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5560 323730	11861 643925	26268 1390846	69454	141091	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7949 509949	16391 1015519	43024 2243491	115998	244516	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	6362 324571	11688 643092	25810 1357177	65257	141024	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	4184 212662	8001 437699	16844 921412	42522	91957	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	1471 82919	2487 163759	5905 342375	17856	37835	10.0 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	6241 407894	13385 831223	31858 1840007	83905	182374	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3860 232484	7979 470078	15657 1061648	44321	91725	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	8660 471254	15982 956521	32655 2083048	93581	202859	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	14318 824029	30063 1642954	57205 3584805	161574	335697	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	14631 757033	29298 1472318	58432 3270917	156393	341768	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	7566 432724	14997 892700	27295 1954458	78105	177851	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	8034 389723	12737 801944	26940 1707452	71542	158313	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3934 221383	7666 446685	16394 953889	45850	94707	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	6682 323802	12632 655818	25843 1457738	67902	145901	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	9058 467122	18480 917996	34479 1993616	93981	203774	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	27580 1551654	48957 3034821	104708 6774830	290884	651642	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	5396 320008	11137 647139	23057 1446676	59905	130600	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4777 305051	10492 601230	20231 1296788	57623	129055	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	17231 877373	31751 1745725	66622 3810550	169749	380244	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	6615 326836	11932 649362	22310 1384864	58558	135940	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	28695 1369564	50521 2781536	106368 6070913	291205	634760	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	10857 553246	17518 1106925	41776 2383996	108808	228330	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	11102 552920	23599 1116770	40613 2369117	109200	236716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	15311 922922	33313 1858717	68788 3967232	185906	405355	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	3219 204005	9252 418982	12946 974522	36405	80703	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	26824 1435122	51845 2899883	113200 6215157	296277	636585	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	7443 360702	15017 731891	29254 1579153	72294	162827	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	7723 388414	13811 755997	30957 1573575	76062	161270	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2036 126923	5767 250823	10836 516037	24484	56499	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	2864 142512	6373 288781	9456 631485	26107	56922	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	27553 1638178	62018 3305485	127750 7025157	353011	731916	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	5315 352147	11167 700880	27100 1514199	74905	159001	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	21119 1176597	41177 2362171	92177 5003044	237765	513699	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	20014 1117743	40322 2172778	84162 4645073	233144	476739	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	5524 278773	10786 553208	21522 1186151	54794	121026	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	21554 1214036	46235 2444341	94907 5126631	253728	529692	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	27911 1538864	54893 3053936	121210 6433230	308191	678321	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	12932 700737	28452 1388568	52675 2915000	142051	299942	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	23025 1343714	46841 2641568	104809 5468310	269325	602899	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1 Analy Batch No.: 419847

SDG No.:

Instrument ID: HP5973N GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/15/2018 13:52 Calibration End Date: 06/15/2018 17:01 Calibration ID: 34080

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	12067 703970	27525 1393050	57197 2930013	145588	308891	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	22189 1198747	42215 2316962	88976 4707291	242506	531221	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	13932 684047	24136 1356591	50025 2795258	140141	295098	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1096 77949	2161 162144	5169 354748	15925	32432	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	7816 492214	14840 965139	34189 1936750	93254	203547	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	4886 204880	7882 399315	15756 774991	42048	97265	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	21597 1458006	44822 2898399	92256 6070746	266616	579219	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	6841 445208	14689 879783	30242 1797508	90886	180967	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	297599 300779	293033 302536	292346 306861	293581	307152	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	382956 365472	377715 371695	361111 375772	368947	377733	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1070806 1030393	1023685 1052987	1015521 1088579	1033952	1091397	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	333767 319872	327001 322288	317150 338909	320763	344241	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 15-Jun-2018 13:52:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0072372-007
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:02 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: HillL Date: 18-Jun-2018 12:35:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.357	0.001	98	208961	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.338	0.001	88	792950	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.741	0.001	96	407612	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.768	-0.007	92	297599	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	382956	25.0	25.7	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	95	1070806	25.0	25.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	333767	25.0	25.6	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	66	6707	0.5000	0.5347	
13 Chloromethane	50	1.464	1.464	0.000	49	9244	0.5000	0.5329	M
14 Vinyl chloride	62	1.561	1.549	0.012	31	8780	0.5000	0.6037	
144 Butadiene	54	1.592	1.574	0.018	46	8606	0.5000	0.5798	M
15 Bromomethane	94	1.860	1.854	0.006	23	3788	0.5000	0.4732	
16 Chloroethane	64	1.951	1.951	0.000	23	3411	0.5000	0.4649	M
17 Dichlorofluoromethane	67	2.139	2.146	-0.007	29	6408	0.5000	0.3545	Ma
18 Trichlorofluoromethane	101	2.145	2.152	-0.007	23	7933	0.5000	0.4792	
19 Ethyl ether	59	2.425	2.431	-0.006	85	7070	0.5000	0.5370	
20 Acrolein	56	2.596	2.584	0.012	49	7263	2.50	3.12	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	61	4061	0.5000	0.3732	
21 1,1,2-Trichloro-1,2,2-trif	101	2.675	2.663	0.012	1	2067	0.5000	0.2090	Ma
23 Acetone	43	2.742	2.742	0.000	71	14360	2.50	3.43	M
24 Iodomethane	142	2.778	2.778	0.000	71	7594	0.5000	0.3796	
25 Carbon disulfide	76	2.821	2.827	-0.006	95	13733	0.5000	0.4090	
27 3-Chloro-1-propene	41	2.985	2.991	-0.006	85	10278	0.5000	0.4337	
28 Methyl acetate	43	3.034	3.034	0.000	84	20303	1.00	1.39	
30 Methylene Chloride	84	3.125	3.125	0.000	94	19748	0.5000	0.6777	
31 2-Methyl-2-propanol	59	3.289	3.289	0.000	52	5010	5.00	5.05	
33 trans-1,2-Dichloroethene	96	3.356	3.356	0.000	66	6352	0.5000	0.4946	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	95	20197	0.5000	0.4992	
34 Acrylonitrile	53	3.387	3.380	0.007	99	31056	5.00	4.60	M
35 Hexane	57	3.587	3.575	0.012	86	10895	0.5000	0.5416	M

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.758	3.764	-0.006	41	12313	0.5000	0.5099	M
39 Vinyl acetate	43	3.825	3.819	0.006	97	24787	1.00	0.9247	M
42 2,2-Dichloropropane	77	4.281	4.281	0.000	65	8869	0.5000	0.5411	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	83	6092	0.5000	0.4324	
44 2-Butanone (MEK)	43	4.354	4.336	0.018	99	17196	2.50	2.24	
47 Chlorobromomethane	128	4.530	4.536	-0.006	83	3672	0.5000	0.5075	
49 Tetrahydrofuran	42	4.573	4.567	0.006	34	6981	1.00	1.18	
50 Chloroform	83	4.609	4.615	-0.006	95	12197	0.5000	0.5453	
51 1,1,1-Trichloroethane	97	4.743	4.737	0.006	35	9218	0.5000	0.4944	
52 Cyclohexane	56	4.768	4.761	0.007	32	11225	0.5000	0.5020	
53 Carbon tetrachloride	117	4.883	4.889	-0.006	72	7230	0.5000	0.4562	
54 1,1-Dichloropropene	75	4.889	4.895	-0.006	85	8639	0.5000	0.5290	M
56 Isobutyl alcohol	43	5.096	5.090	0.006	38	18672	12.5	22.5	
55 Benzene	78	5.090	5.090	0.000	90	21504	0.5000	0.4510	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	95	11932	0.5000	0.5575	a
59 n-Heptane	43	5.291	5.303	-0.012	79	8548	0.5000	0.4196	M
60 Trichloroethene	95	5.704	5.698	0.006	92	5560	0.5000	0.4293	
62 Methylcyclohexane	83	5.832	5.838	-0.006	88	7949	0.5000	0.3874	
63 1,2-Dichloropropane	63	5.936	5.923	0.013	81	6362	0.5000	0.4911	M
64 Dibromomethane	93	6.075	6.051	0.024	34	4184	0.5000	0.4866	M
66 1,4-Dioxane	88	6.197	6.069	0.128	0	1471	10.0	9.18	M
67 Dichlorobromomethane	83	6.215	6.209	0.006	55	6241	0.5000	0.3908	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	27	3860	0.5000	0.4370	
71 cis-1,3-Dichloropropene	75	6.641	6.629	0.012	85	8660	0.5000	0.4713	M
72 4-Methyl-2-pentanone (MIBK	58	6.781	6.775	0.006	98	14318	2.50	2.26	M
73 Toluene	92	6.933	6.933	0.000	96	14631	0.5000	0.4788	
75 trans-1,3-Dichloropropene	75	7.195	7.189	0.006	95	7566	0.5000	0.4621	
77 Ethyl methacrylate	69	7.268	7.256	0.012	36	8034	0.5000	0.5339	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	87	3934	0.5000	0.4538	
79 Tetrachloroethene	166	7.469	7.469	0.000	87	6682	0.5000	0.4987	
80 1,3-Dichloropropane	76	7.542	7.536	0.006	62	9058	0.5000	0.4856	
82 2-Hexanone	43	7.621	7.615	0.006	96	27580	2.50	2.36	
83 Chlorodibromomethane	129	7.779	7.773	0.006	30	5396	0.5000	0.4400	
84 Ethylene Dibromide	107	7.882	7.882	0.000	91	4777	0.5000	0.4188	
85 Chlorobenzene	112	8.369	8.369	0.000	88	17231	0.5000	0.4957	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.460	0.006	42	6615	0.5000	0.5244	
88 Ethylbenzene	91	8.466	8.472	-0.006	98	28695	0.5000	0.5082	
90 m-Xylene & p-Xylene	106	8.588	8.594	-0.006	0	10857	0.5000	0.5052	M
91 o-Xylene	106	9.014	9.014	0.000	94	11102	0.5000	0.4967	
92 Styrene	104	9.044	9.044	0.000	86	15311	0.5000	0.4249	
93 Bromoform	173	9.275	9.269	0.006	41	3219	0.5000	0.4066	
95 Isopropylbenzene	105	9.409	9.403	0.006	95	26824	0.5000	0.4589	
97 Bromobenzene	156	9.738	9.744	-0.006	93	7443	0.5000	0.4906	
98 1,1,2,2-Tetrachloroethane	83	9.780	9.780	0.000	87	7723	0.5000	0.4991	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	38	2036	0.5000	0.3925	
101 trans-1,4-Dichloro-2-buten	53	9.829	9.835	-0.006	38	2864	0.5000	0.4981	M
100 N-Propylbenzene	91	9.841	9.835	0.006	96	27553	0.5000	0.4140	
102 2-Chlorotoluene	126	9.939	9.933	0.007	93	5315	0.5000	0.3841	
104 1,3,5-Trimethylbenzene	105	10.018	10.018	0.000	95	21119	0.5000	0.4483	
105 4-Chlorotoluene	91	10.042	10.048	-0.006	95	20014	0.5000	0.4508	
106 tert-Butylbenzene	134	10.340	10.340	0.000	90	5524	0.5000	0.4873	
108 1,2,4-Trimethylbenzene	105	10.389	10.389	0.000	95	21554	0.5000	0.4382	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	93	27911	0.5000	0.4529	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	93	12932	0.5000	0.4570	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	96	23025	0.5000	0.4331	
113 1,4-Dichlorobenzene	146	10.766	10.760	0.006	88	12067	0.5000	0.4233	
115 n-Butylbenzene	91	11.082	11.082	0.000	96	22189	0.5000	0.4695	
116 1,2-Dichlorobenzene	146	11.119	11.113	0.006	93	13932	0.5000	0.5082	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	1	1096	0.5000	0.3724	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	87	7816	0.5000	0.4267	
120 Hexachlorobutadiene	225	12.658	12.652	0.006	85	4886	0.5000	0.5725	
121 Naphthalene	128	12.743	12.737	0.006	96	21597	0.5000	0.4046	
122 1,2,3-Trichlorobenzene	180	12.938	12.944	-0.006	89	6841	0.5000	0.4065	
S 126 Xylenes, Total	1				0			1.00	
S 123 1,3-Dichloropropene, Total	1				0			0.9334	
S 124 1,2-Dichloroethene, Total	1				0			0.9270	
S 125 Total BTEX	1				0			2.44	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00127	Amount Added:	0.50	Units: uL	
GAS CORP mix_00286	Amount Added:	0.50	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 18-Jun-2018 12:44:04 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D

Injection Date:	15-Jun-2018 13:52:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 0.5			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

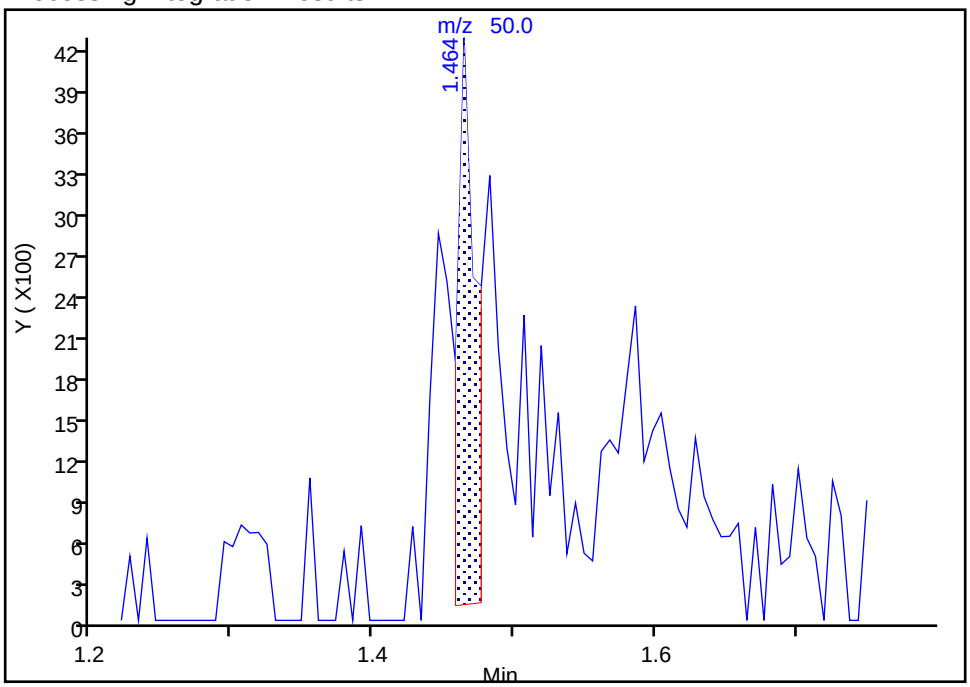
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

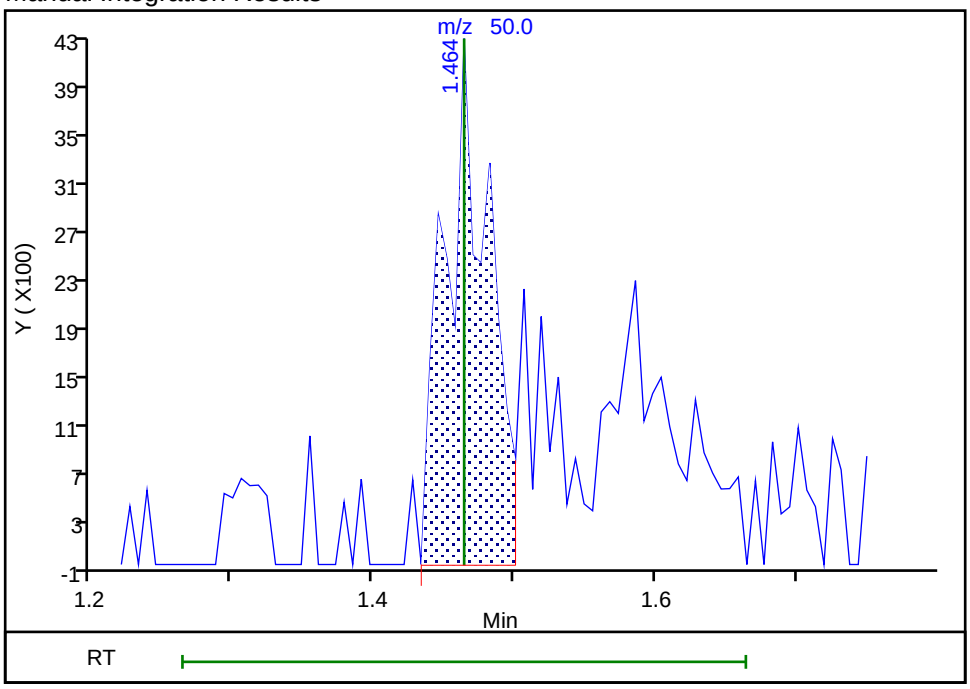
Processing Integration Results

RT: 1.46
Area: 3860
Amount: 0.261383
Amount Units: ug/L



Manual Integration Results

RT: 1.46
Area: 9244
Amount: 0.532894
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:19:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

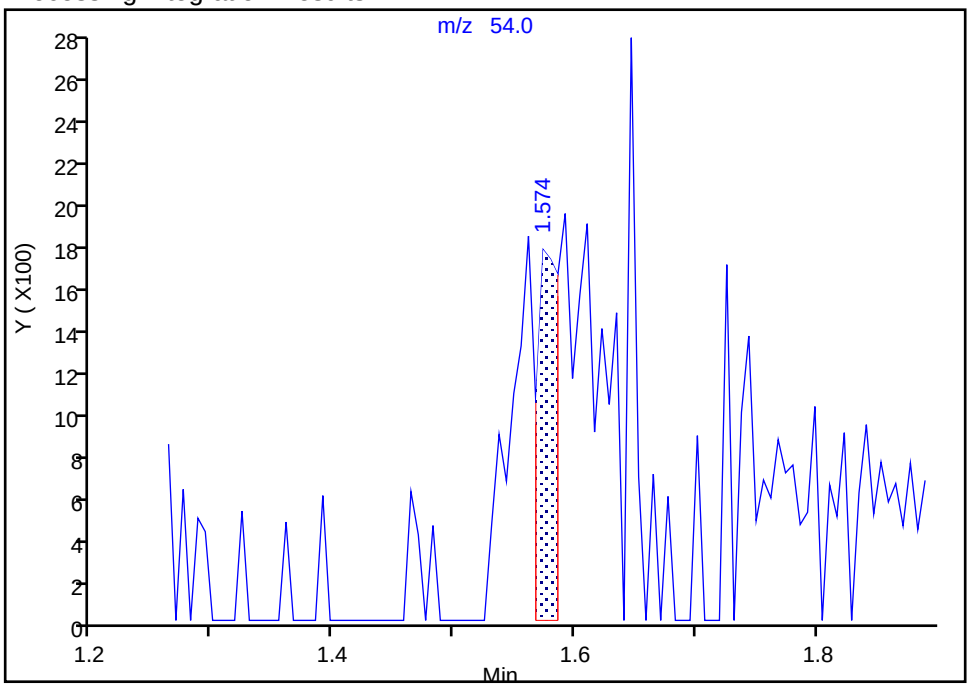
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

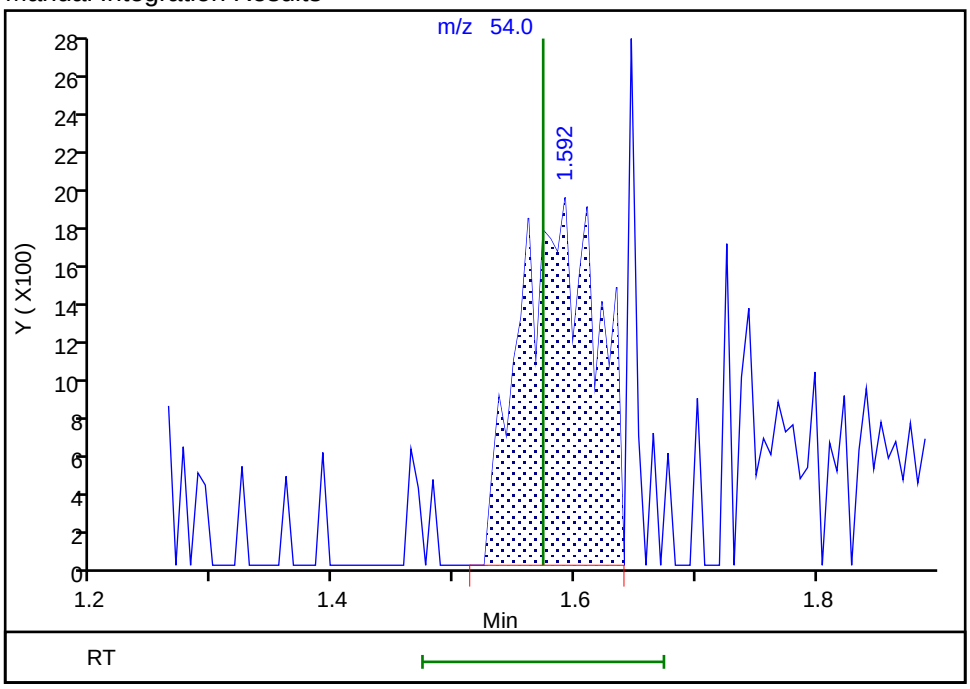
Processing Integration Results

RT: 1.57
Area: 2239
Amount: 0.597562
Amount Units: ug/L



Manual Integration Results

RT: 1.59
Area: 8606
Amount: 0.579792
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:19:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

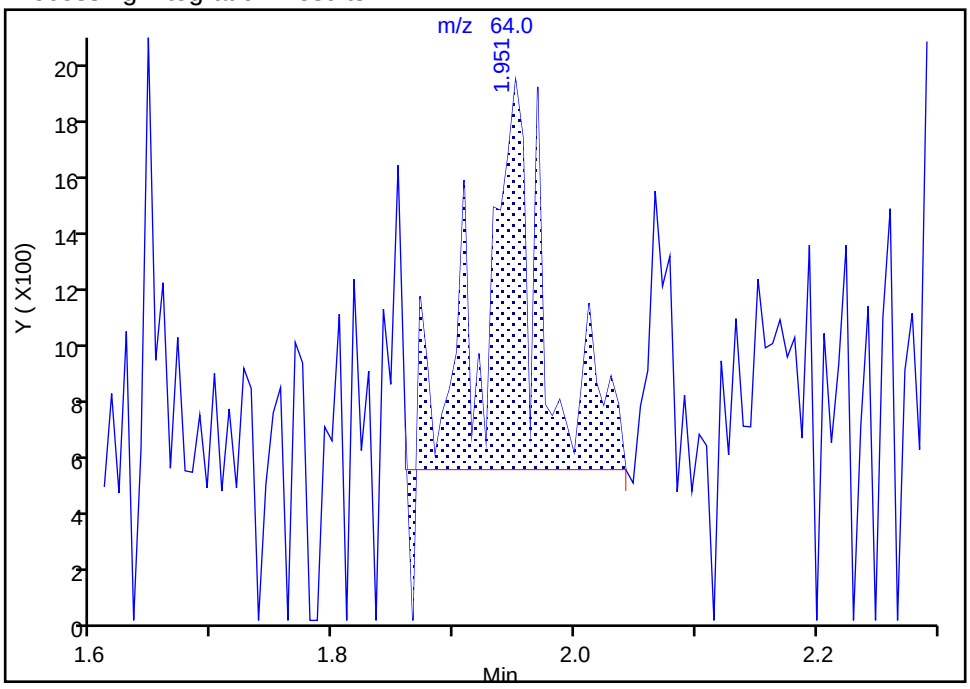
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

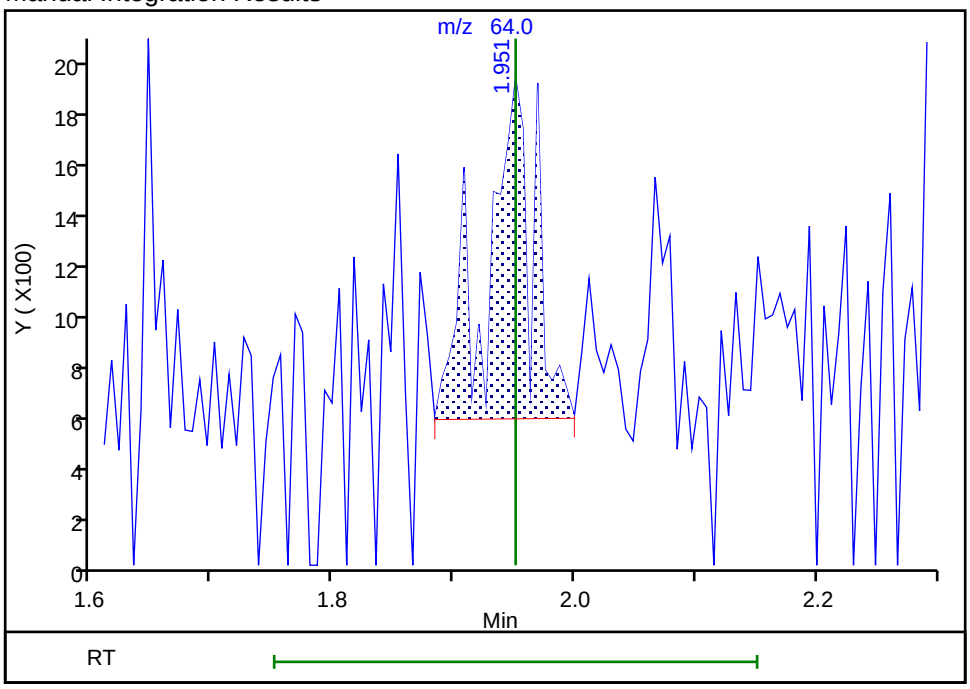
Processing Integration Results

RT: 1.95
Area: 4608
Amount: 0.491605
Amount Units: ug/L



Manual Integration Results

RT: 1.95
Area: 3411
Amount: 0.464909
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:20:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

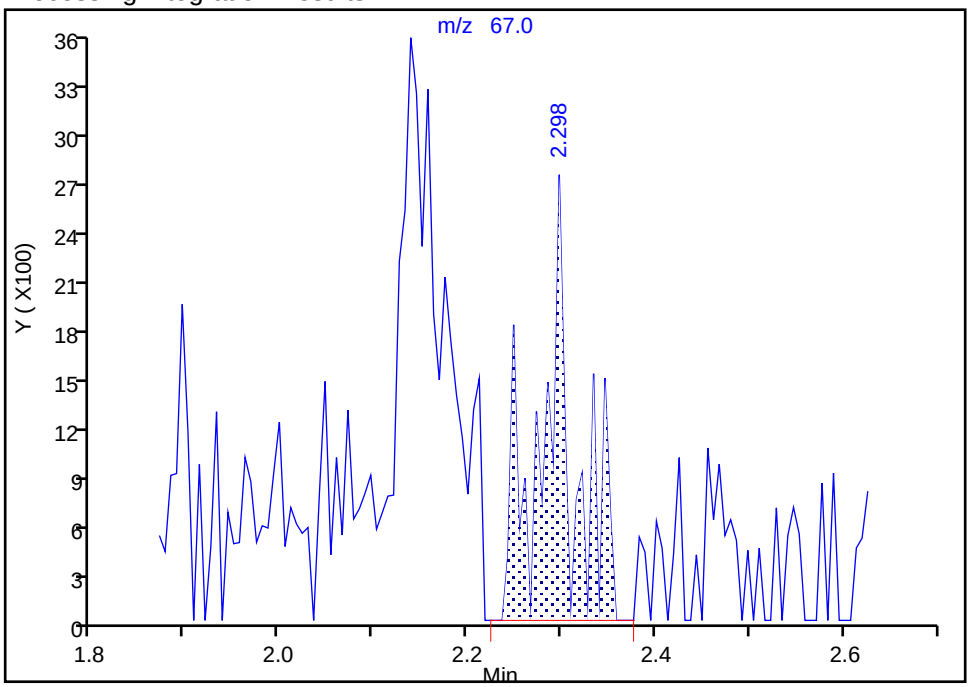
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

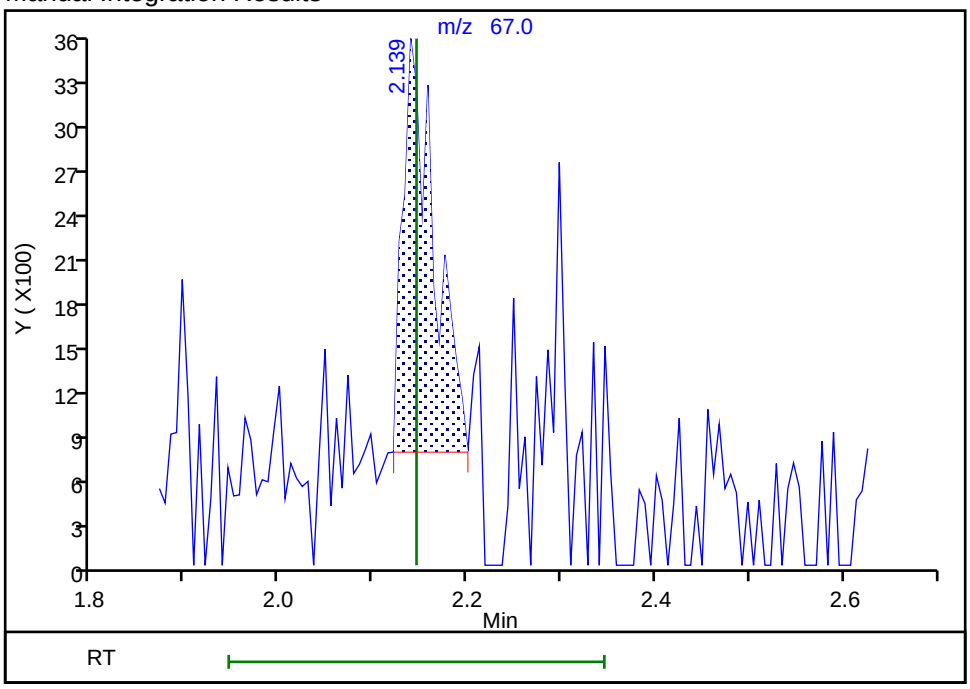
Processing Integration Results

RT: 2.30
Area: 6256
Amount: 0.348133
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 6408
Amount: 0.354464
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:21:29
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

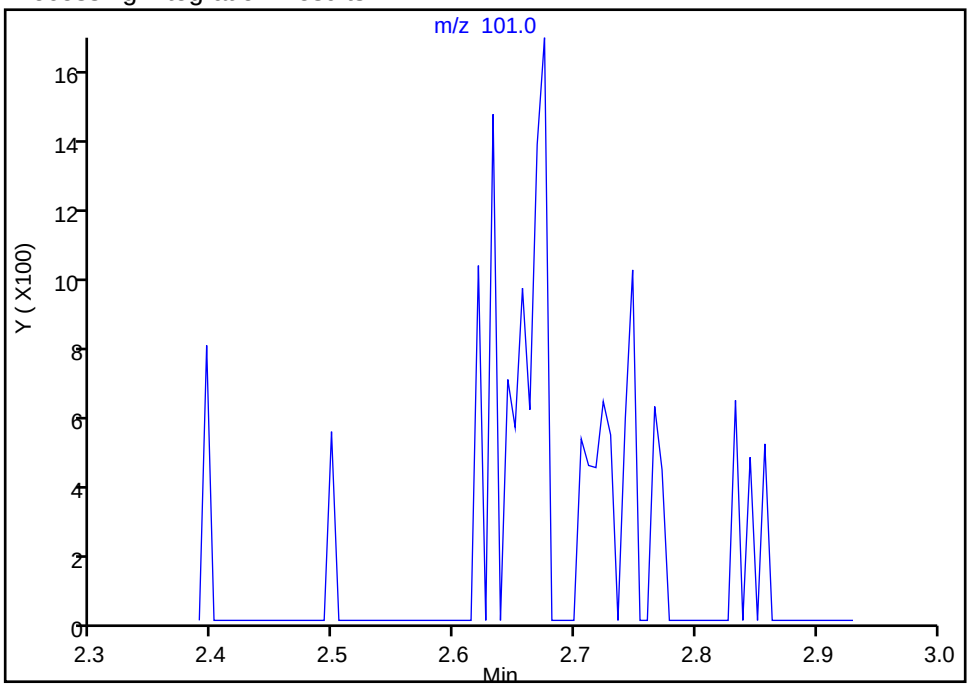
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

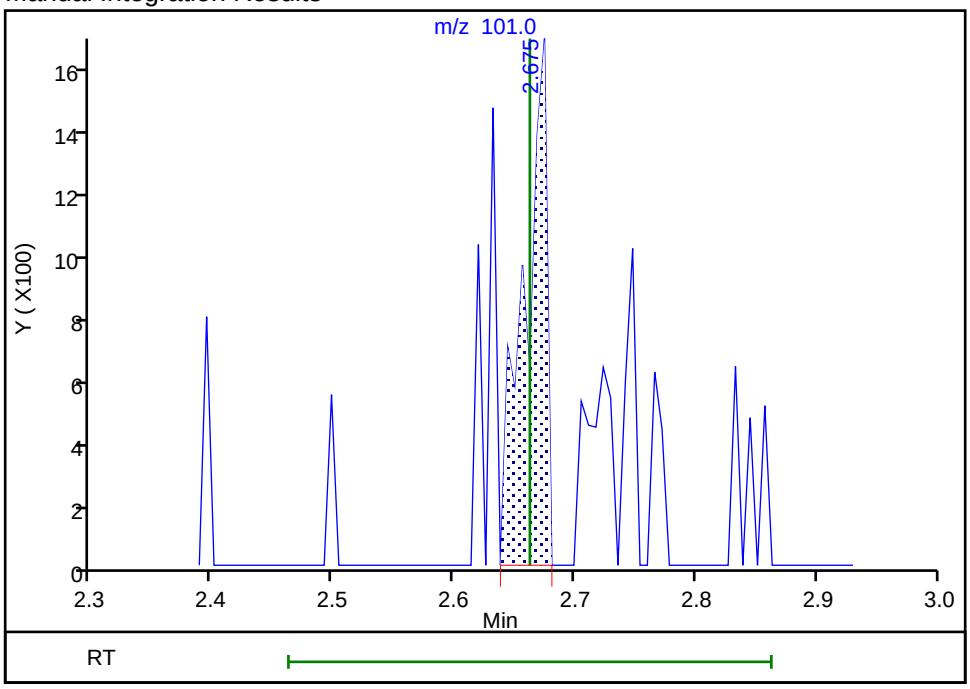
Not Detected
Expected RT: 2.66

Processing Integration Results



Manual Integration Results

RT: 2.67
Area: 2067
Amount: 0.209023
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:22:05
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

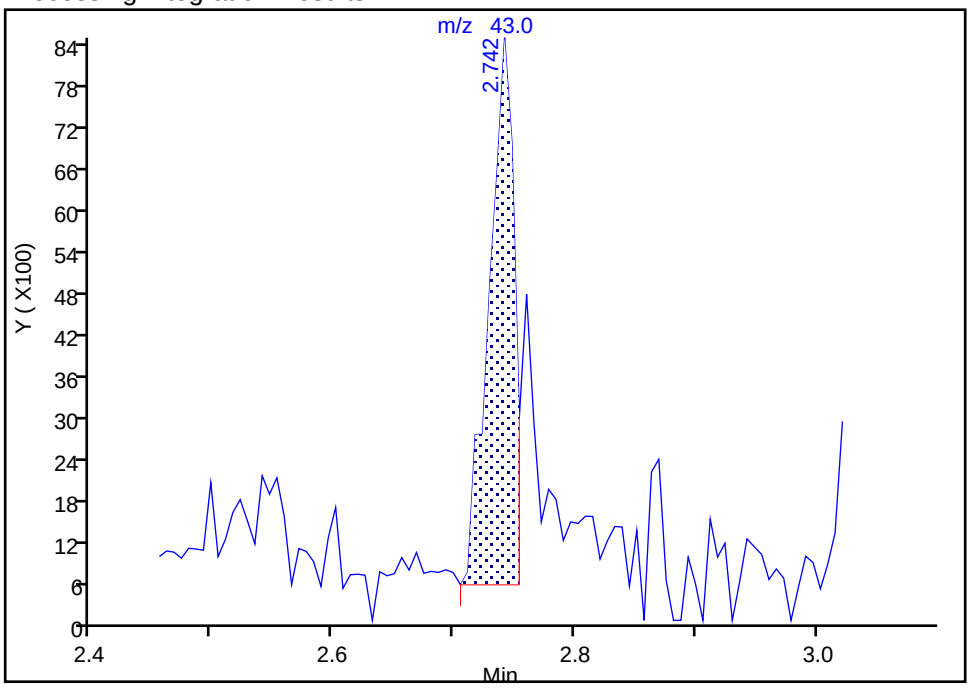
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

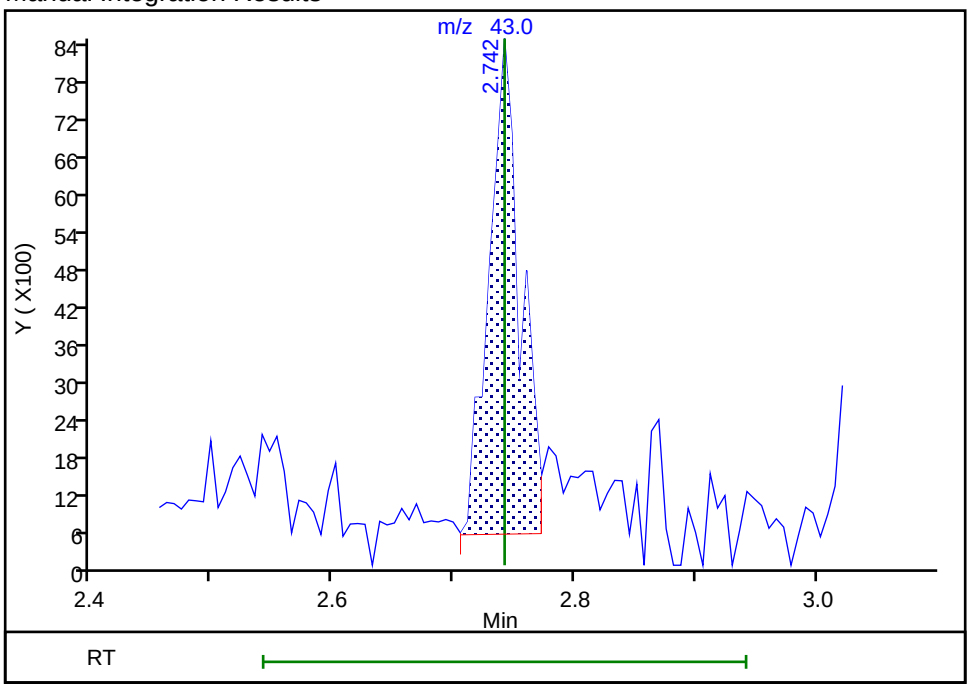
Processing Integration Results

RT: 2.74
Area: 11565
Amount: 2.701645
Amount Units: ug/L



Manual Integration Results

RT: 2.74
Area: 14360
Amount: 3.426777
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:22:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

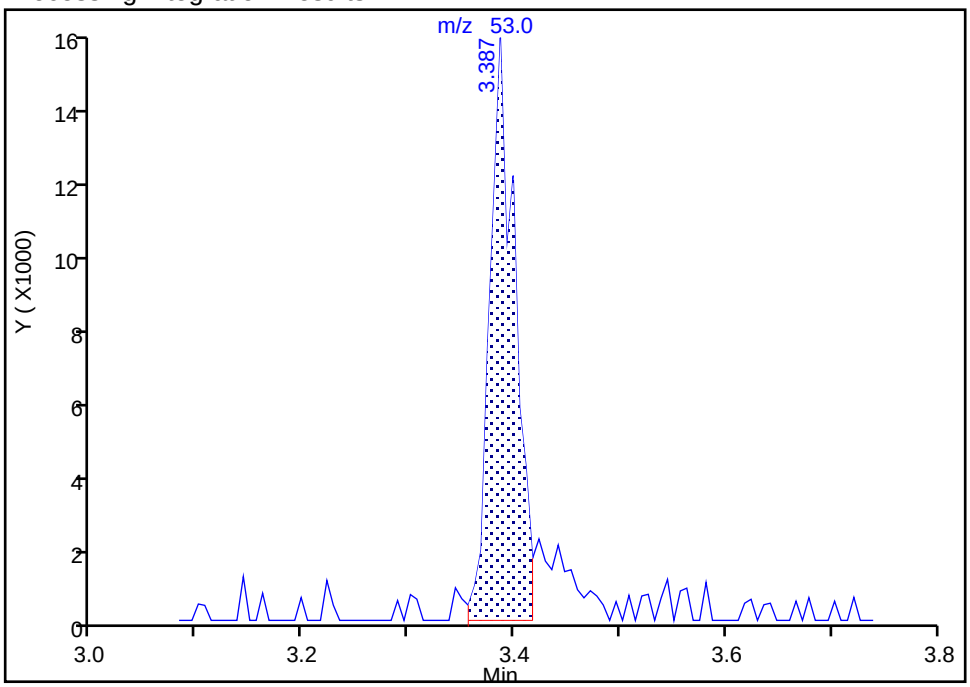
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

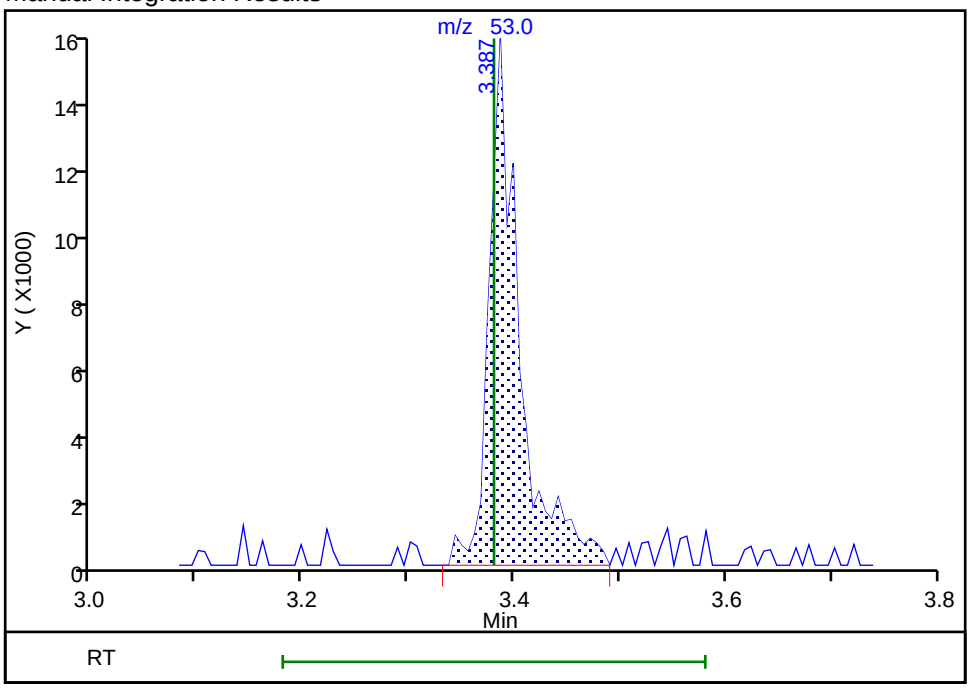
Processing Integration Results

RT: 3.39
Area: 25759
Amount: 4.102987
Amount Units: ug/L



Manual Integration Results

RT: 3.39
Area: 31056
Amount: 4.601735
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:23:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

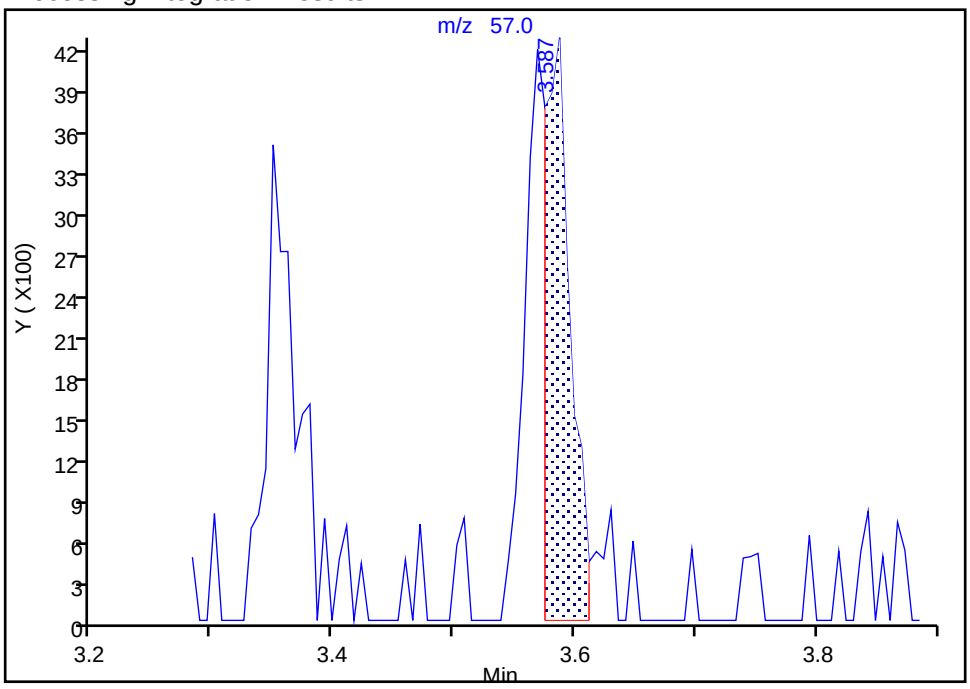
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

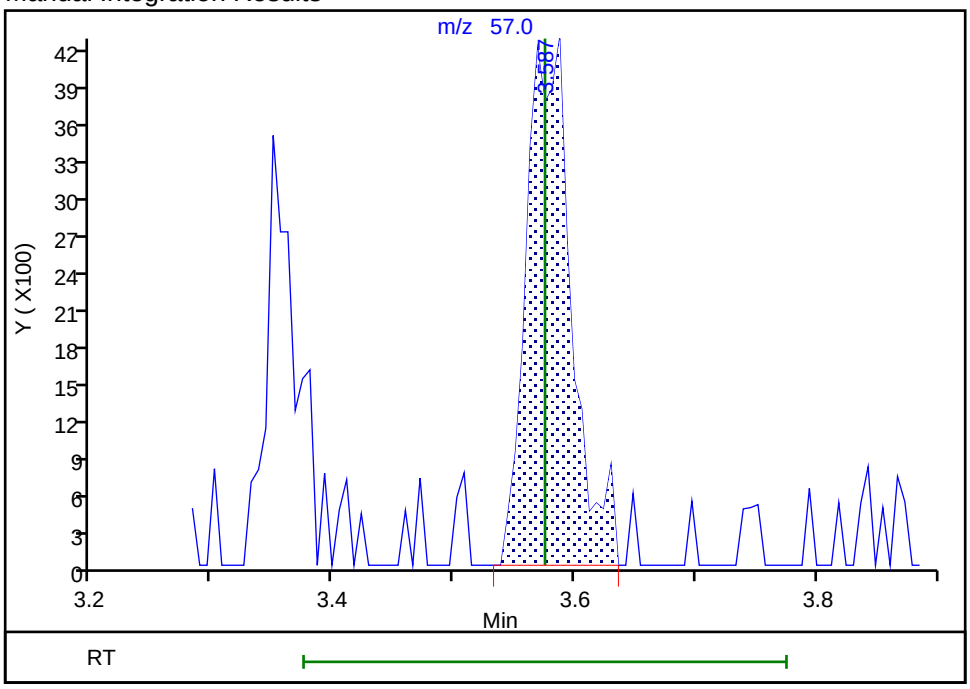
Processing Integration Results

RT: 3.59
Area: 6388
Amount: 0.314710
Amount Units: ug/L



Manual Integration Results

RT: 3.59
Area: 10895
Amount: 0.541638
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:23:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

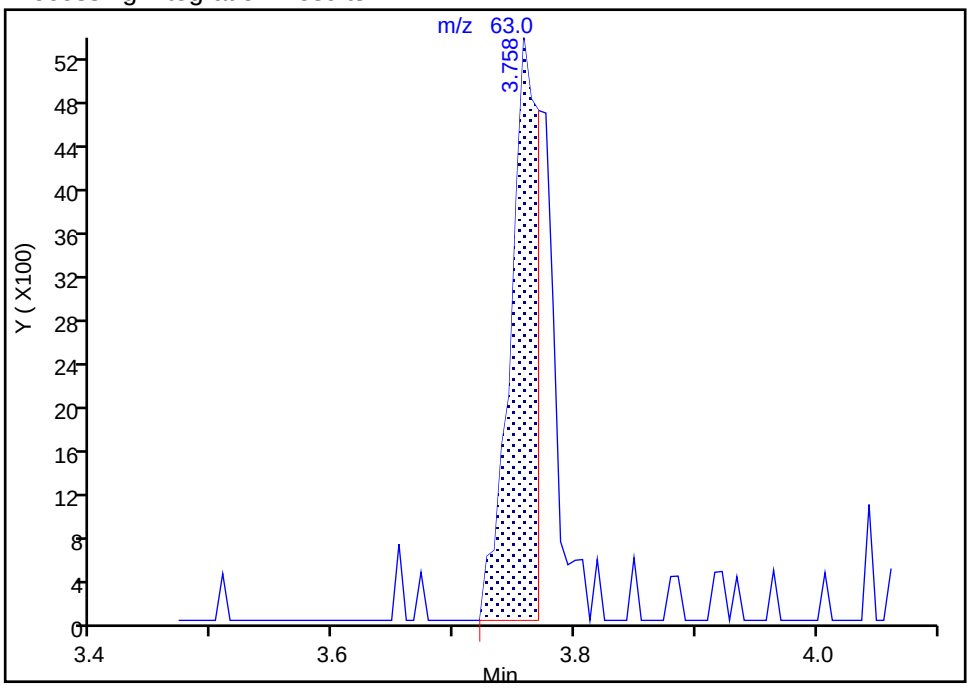
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

36 1,1-Dichloroethane, CAS: 75-34-3

Signal: 1

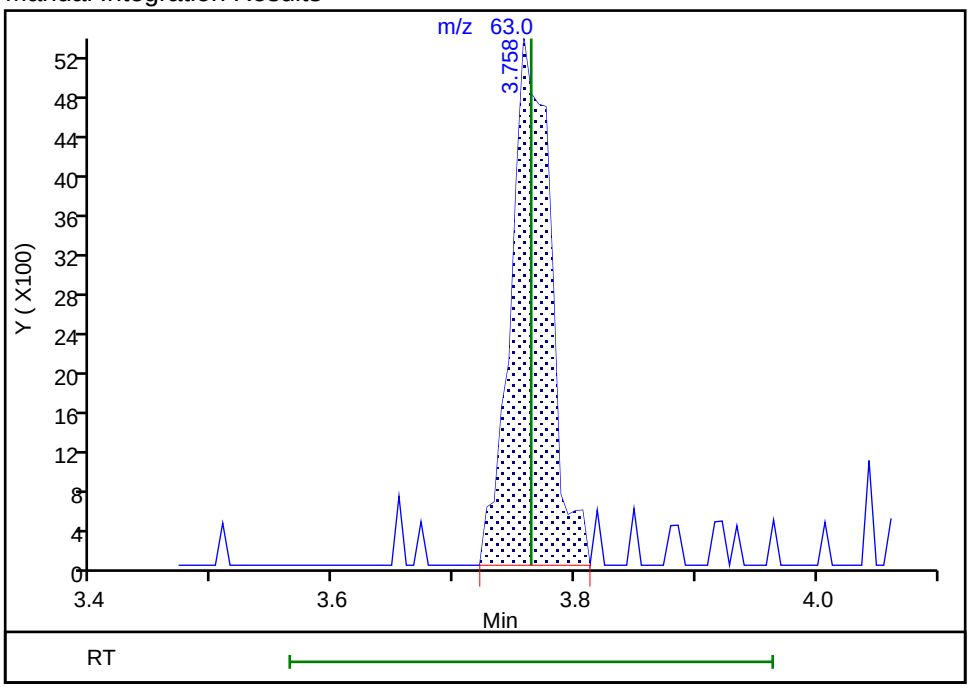
Processing Integration Results

RT: 3.76
Area: 8687
Amount: 0.373807
Amount Units: ug/L



Manual Integration Results

RT: 3.76
Area: 12313
Amount: 0.509944
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:24:07
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

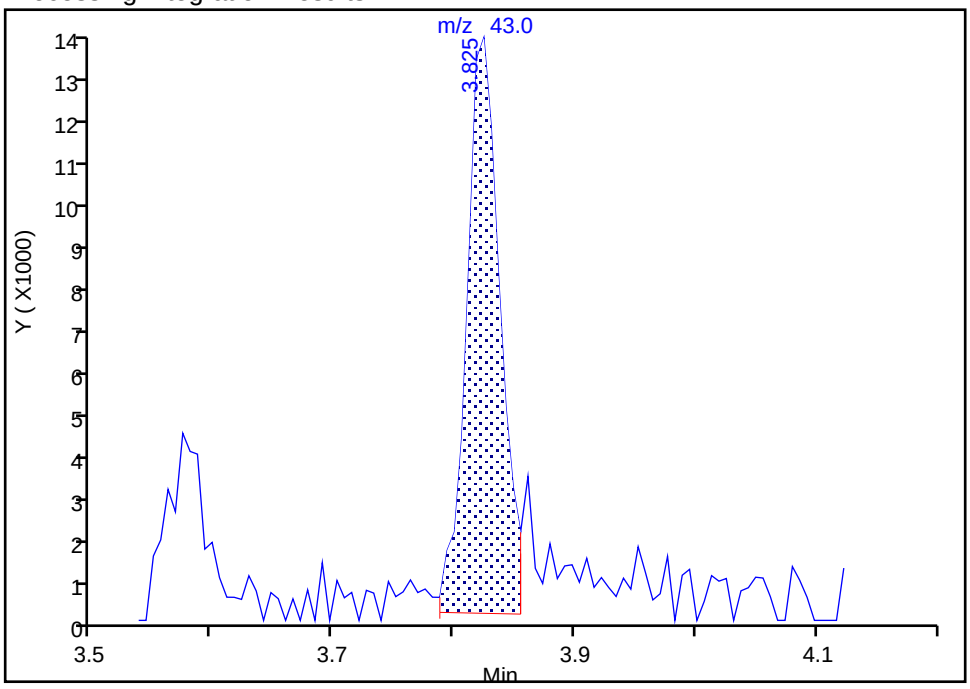
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

39 Vinyl acetate, CAS: 108-05-4

Signal: 1

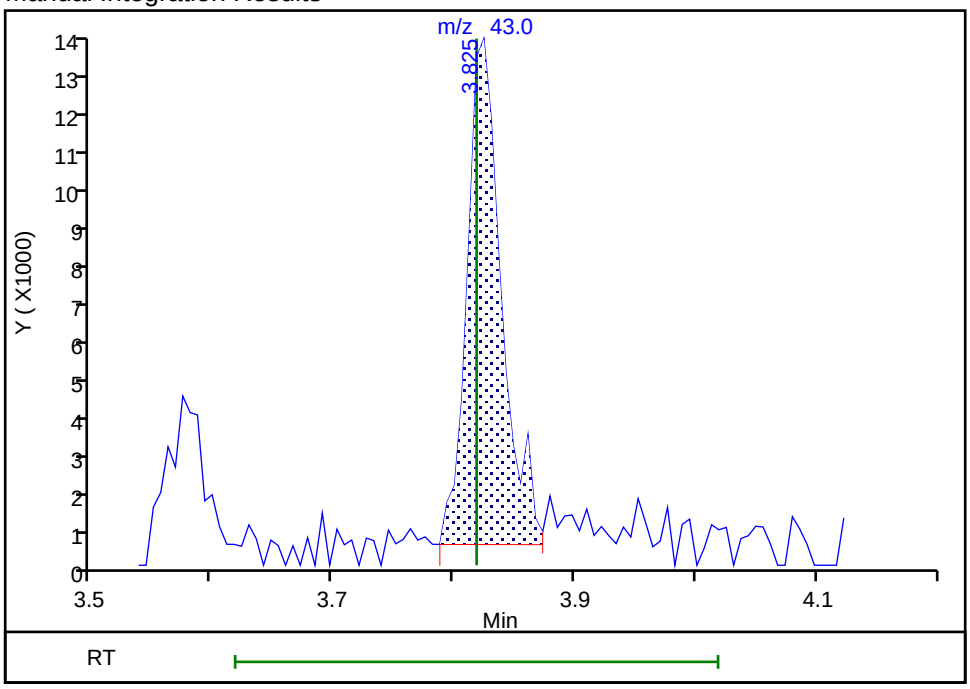
Processing Integration Results

RT: 3.82
Area: 24988
Amount: 0.931331
Amount Units: ug/L



Manual Integration Results

RT: 3.82
Area: 24787
Amount: 0.924705
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:24:56
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

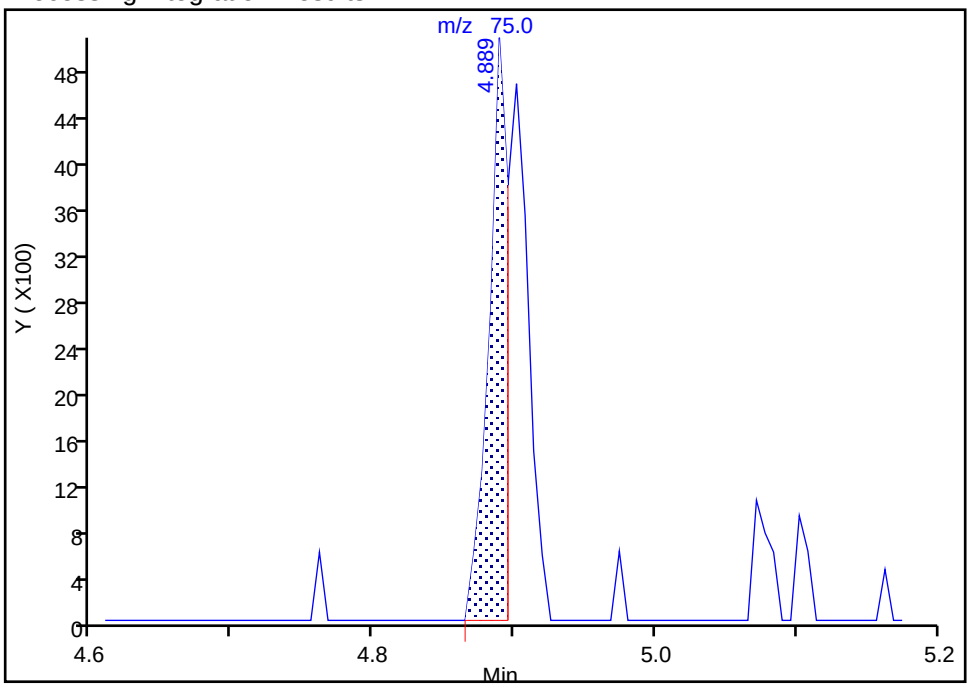
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

54 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

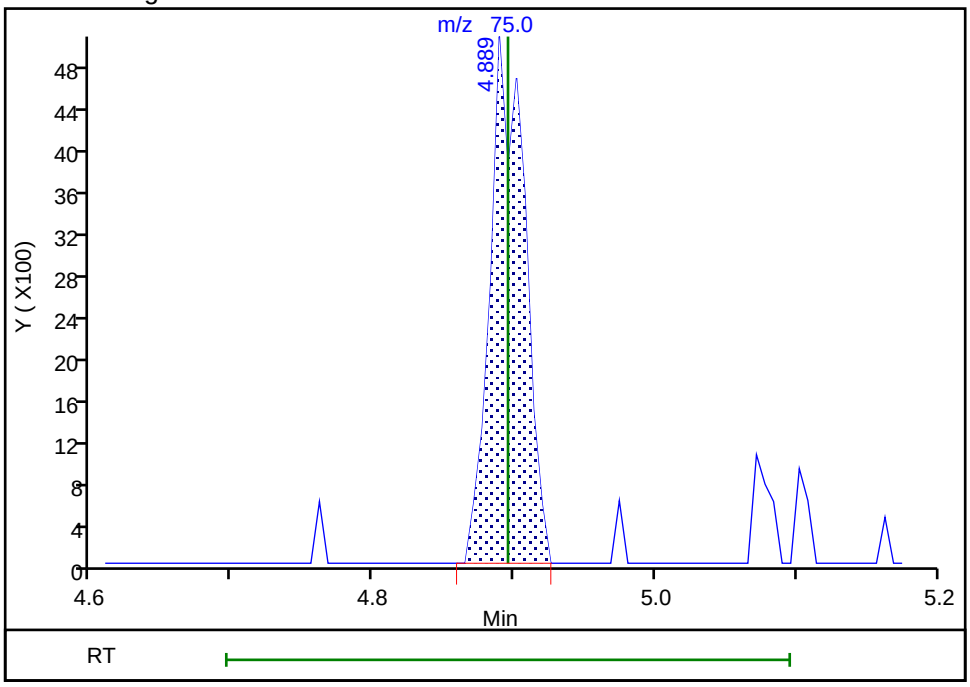
Processing Integration Results

RT: 4.89
Area: 4905
Amount: 0.439690
Amount Units: ug/L



Manual Integration Results

RT: 4.89
Area: 8639
Amount: 0.529000
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:25:42
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

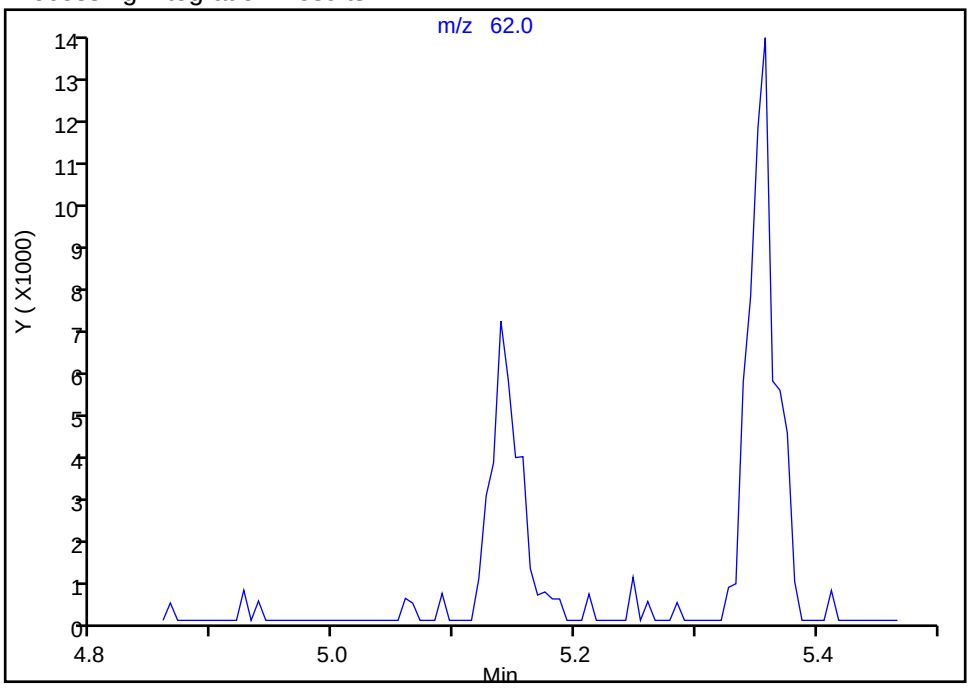
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

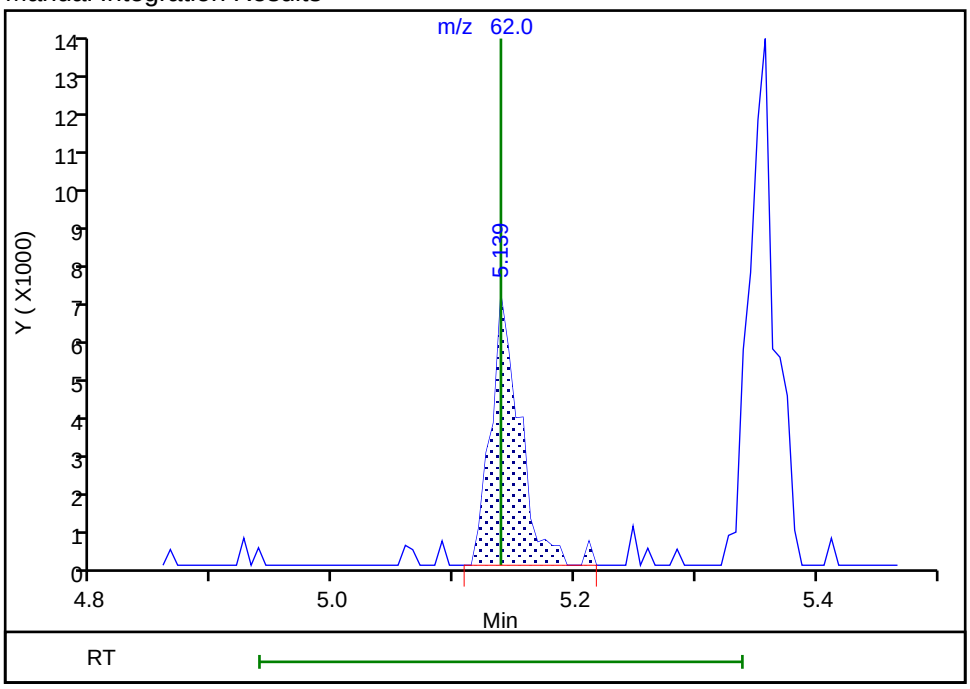
Not Detected
Expected RT: 5.14

Processing Integration Results



Manual Integration Results

RT: 5.14
Area: 11932
Amount: 0.557508
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:27:04
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Buffalo

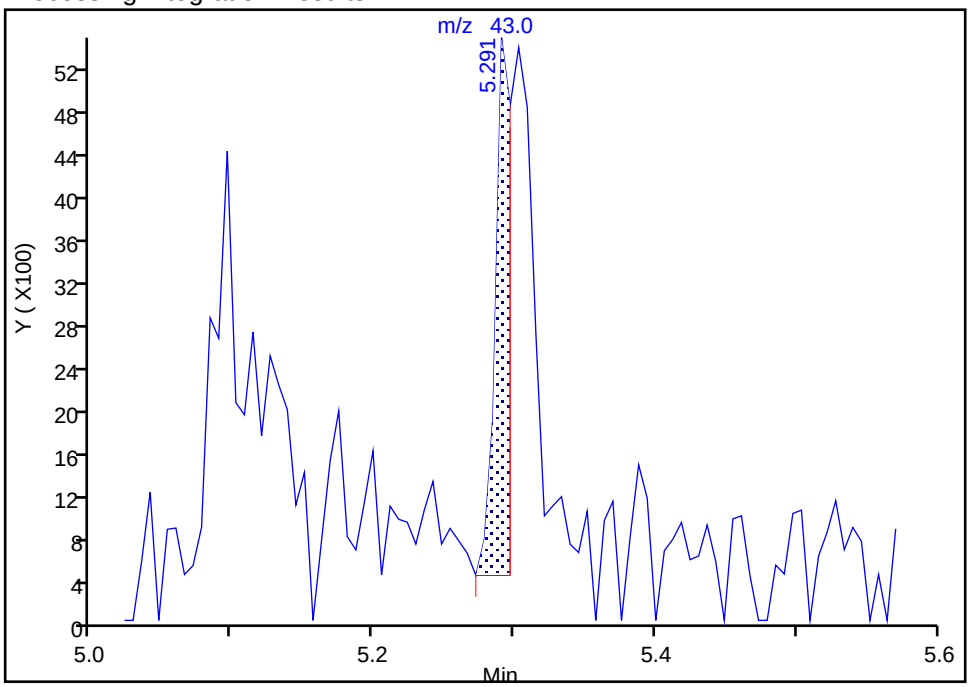
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

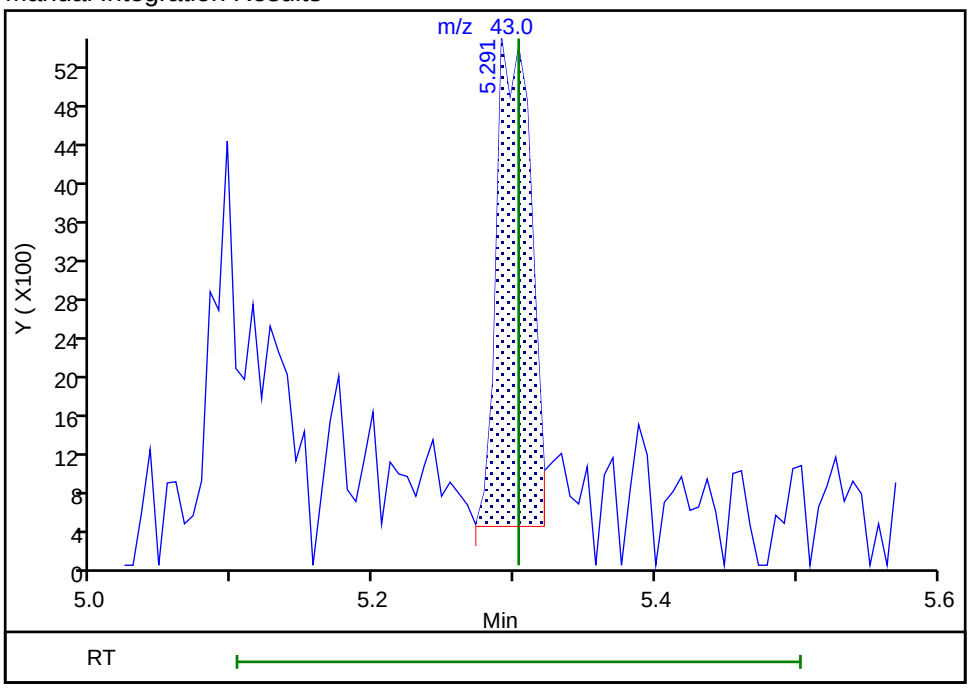
Processing Integration Results

RT: 5.29
Area: 4081
Amount: 0.454555
Amount Units: ug/L



Manual Integration Results

RT: 5.29
Area: 8548
Amount: 0.419613
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:28:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

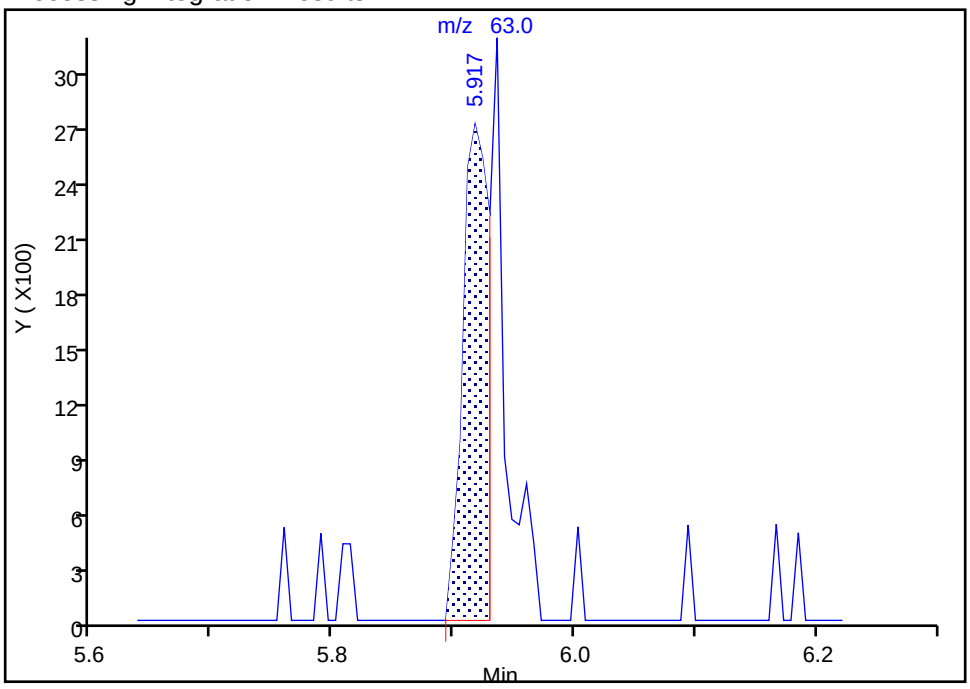
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

63 1,2-Dichloropropane, CAS: 78-87-5

Signal: 1

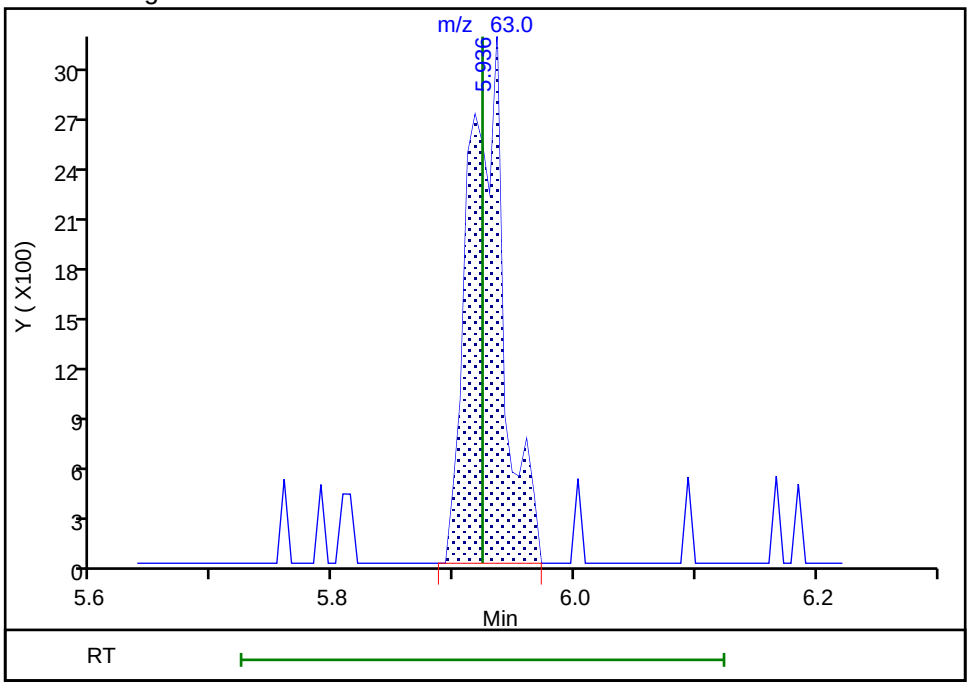
Processing Integration Results

RT: 5.92
Area: 4088
Amount: 0.427541
Amount Units: ug/L



Manual Integration Results

RT: 5.94
Area: 6362
Amount: 0.491134
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:43:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

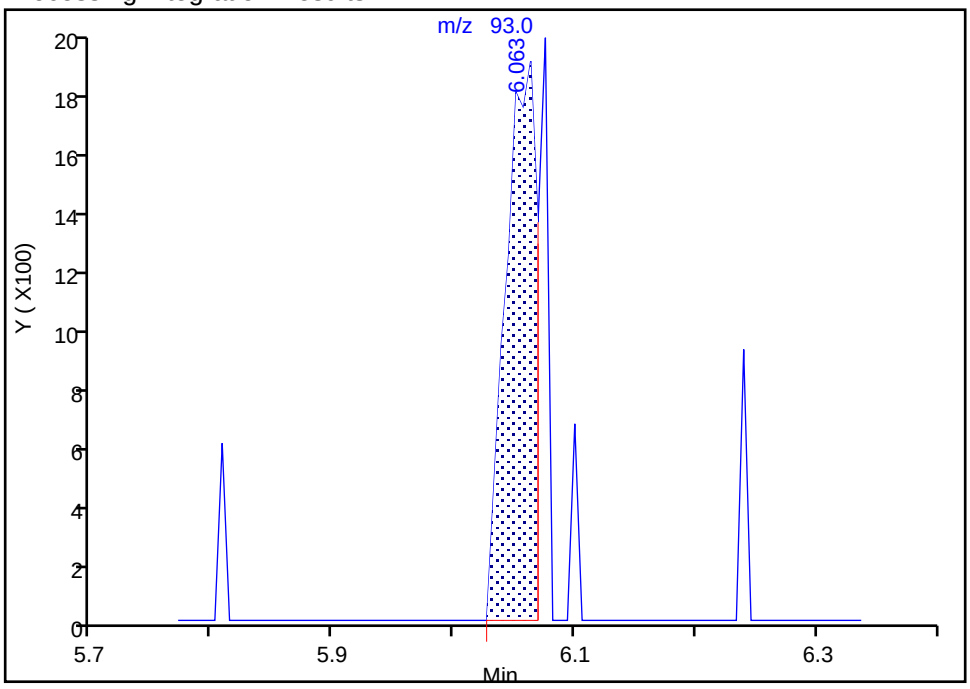
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

64 Dibromomethane, CAS: 74-95-3

Signal: 1

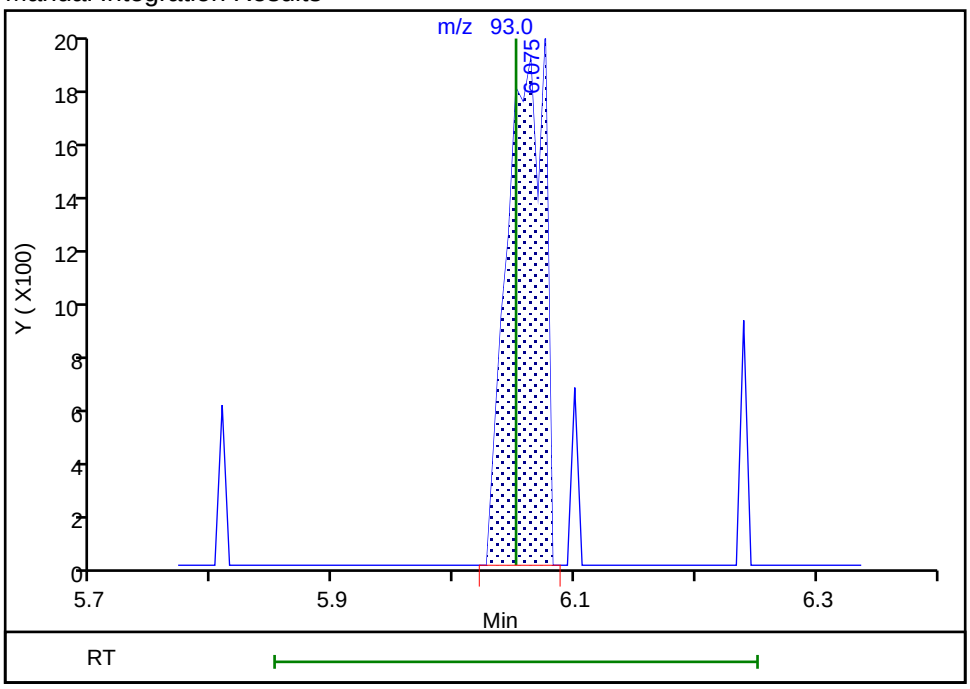
Processing Integration Results

RT: 6.06
Area: 3458
Amount: 0.400630
Amount Units: ug/L



Manual Integration Results

RT: 6.08
Area: 4184
Amount: 0.486597
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:44:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

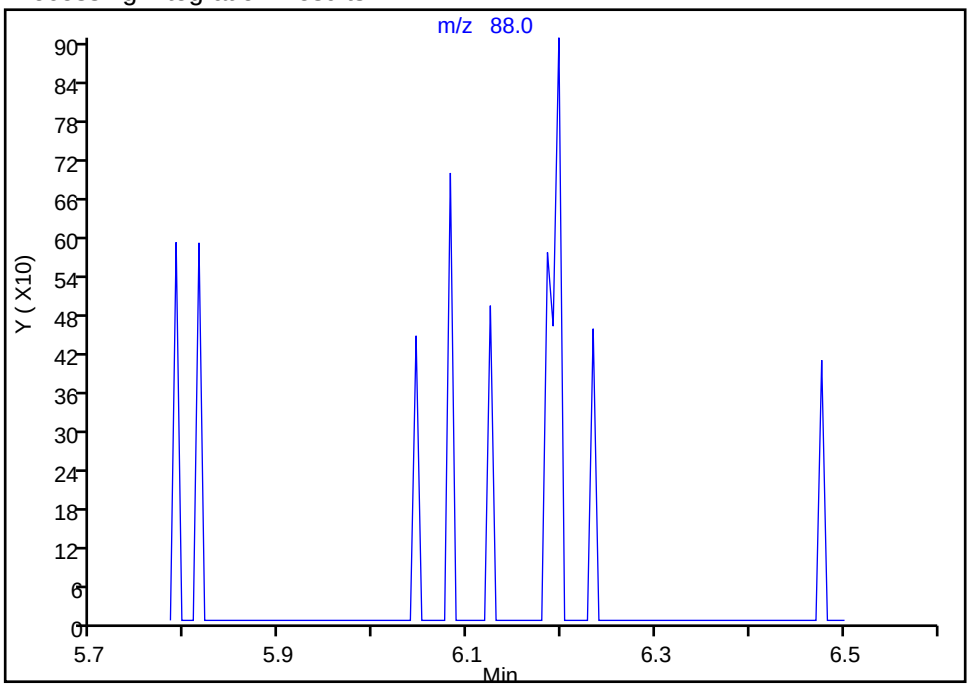
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

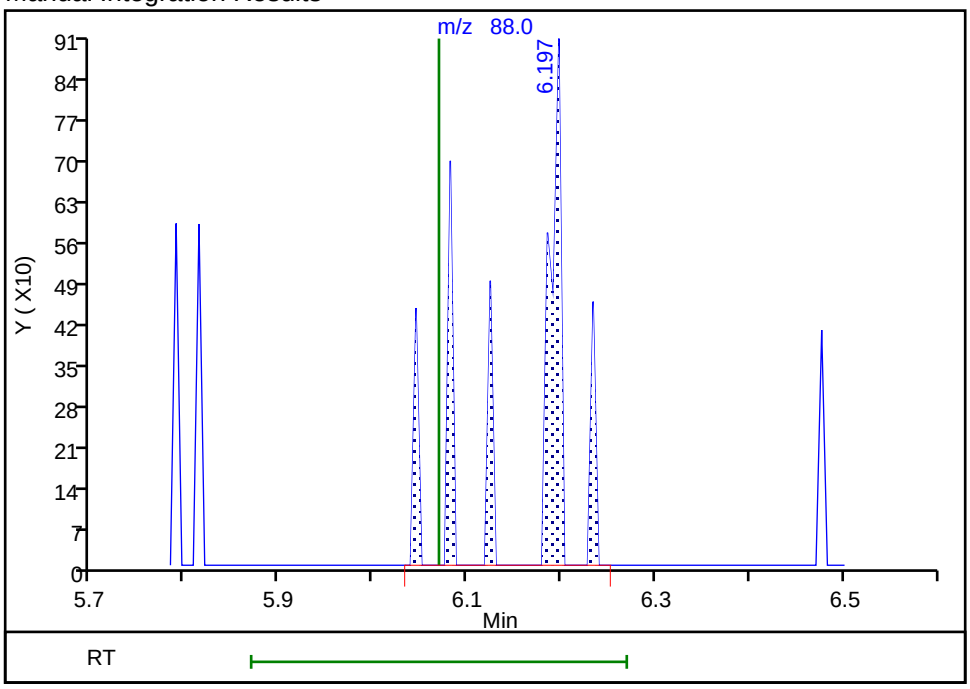
Not Detected
Expected RT: 6.07

Processing Integration Results



Manual Integration Results

RT: 6.20
Area: 1471
Amount: 9.182153
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:44:23
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo

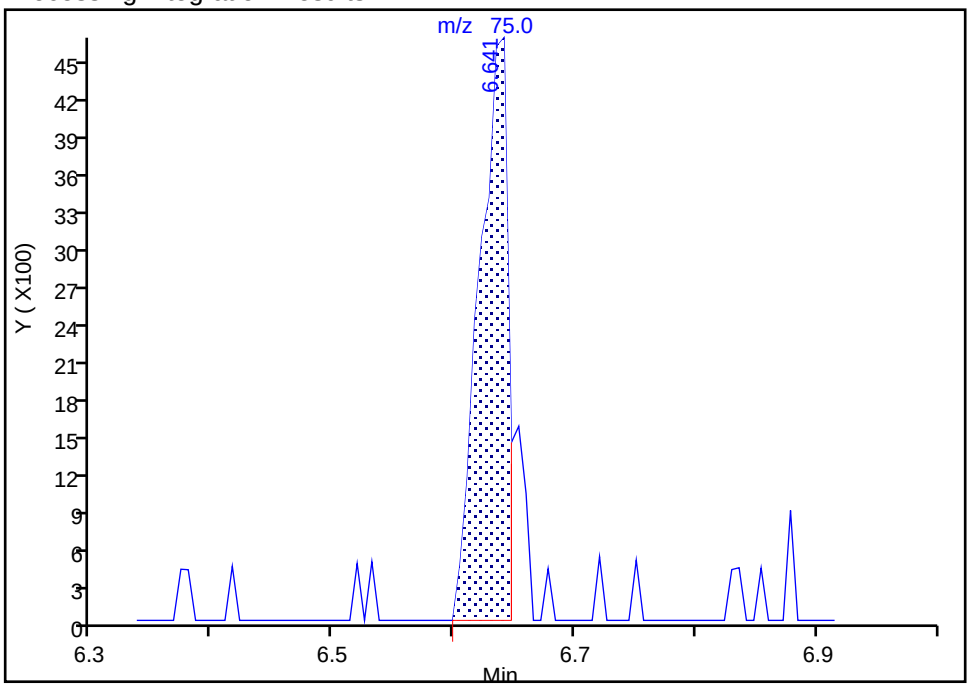
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

71 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

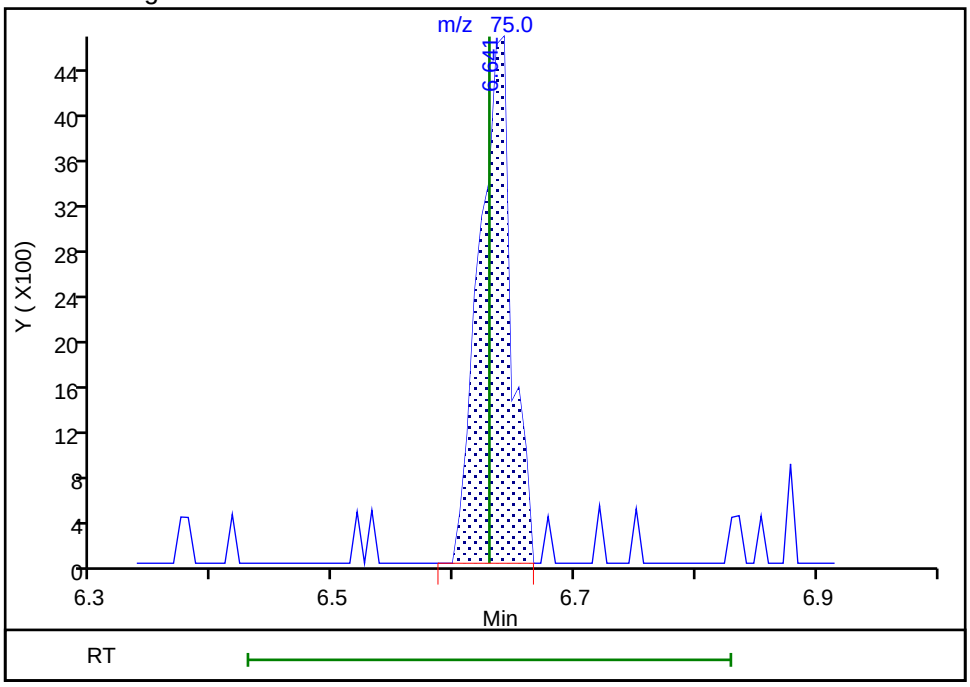
Processing Integration Results

RT: 6.64
Area: 7722
Amount: 0.416833
Amount Units: ug/L



Manual Integration Results

RT: 6.64
Area: 8660
Amount: 0.471300
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:45:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

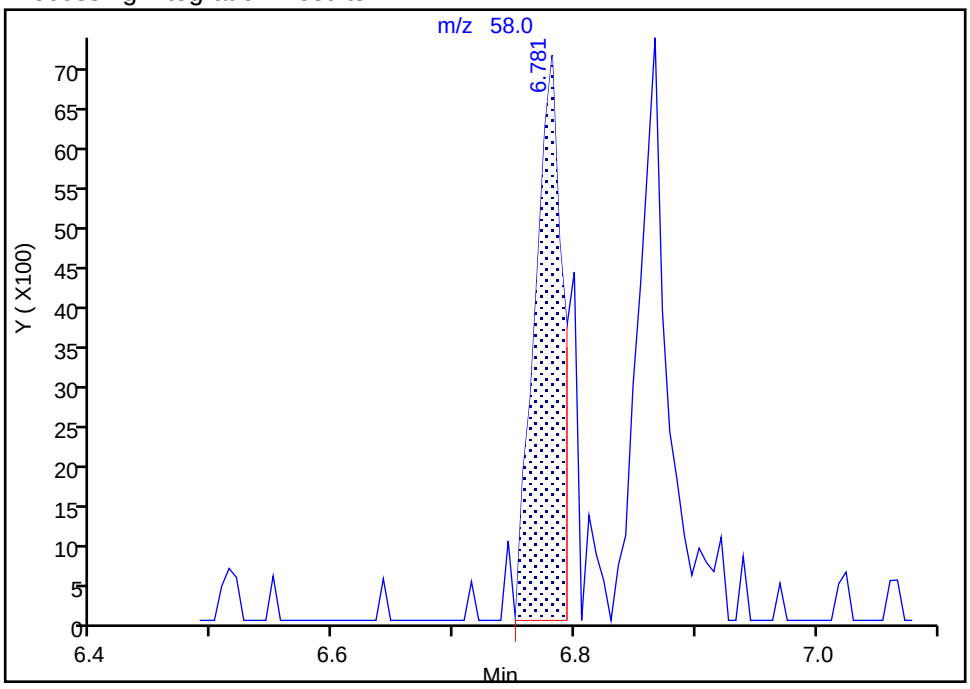
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

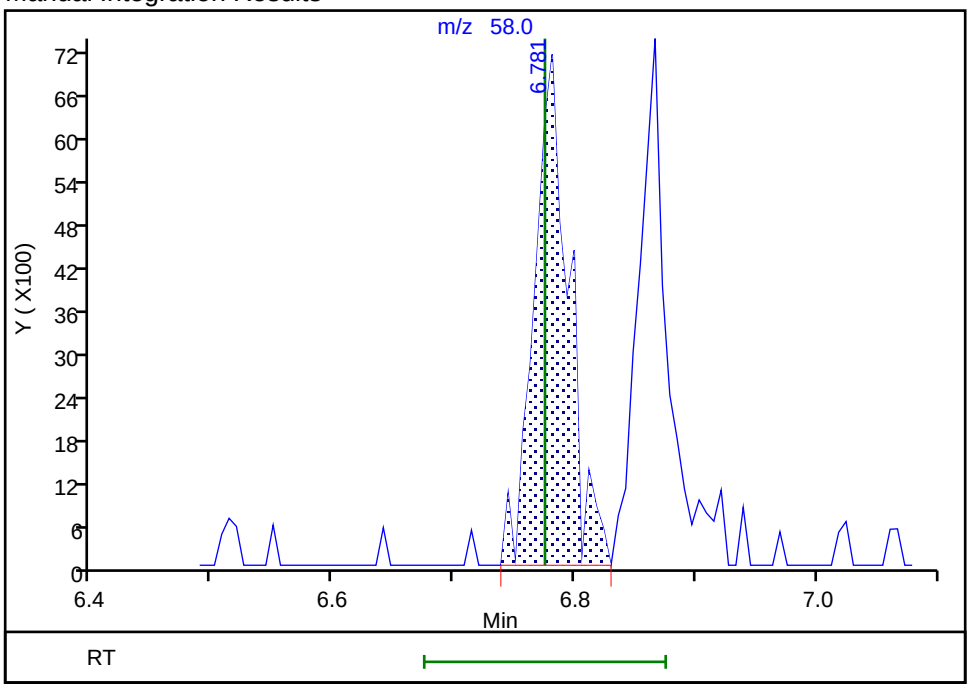
Processing Integration Results

RT: 6.78
Area: 11363
Amount: 1.769103
Amount Units: ug/L



Manual Integration Results

RT: 6.78
Area: 14318
Amount: 2.259768
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:45:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

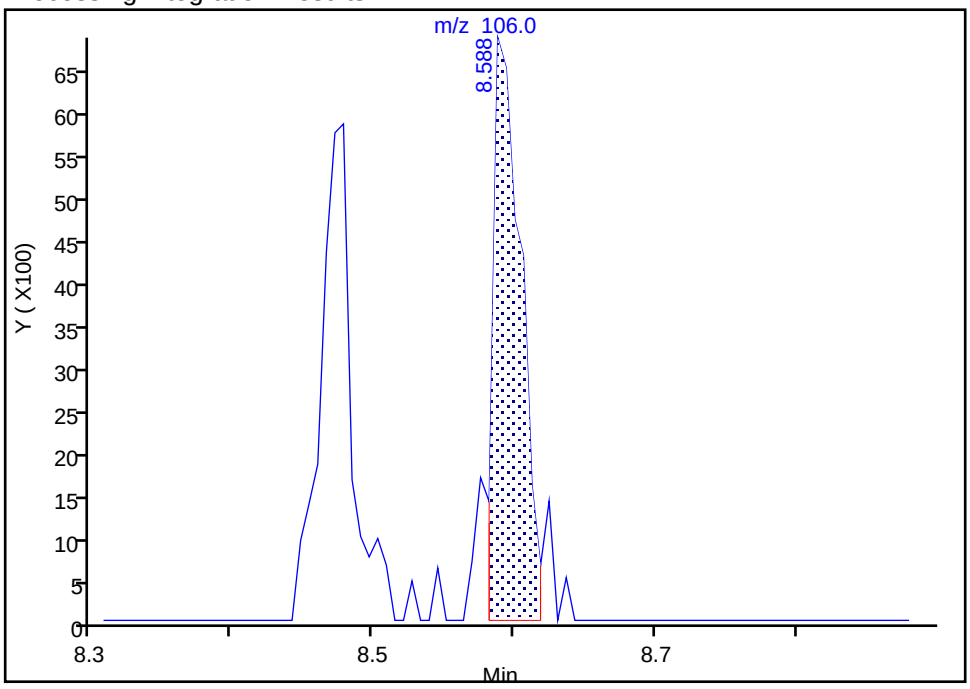
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

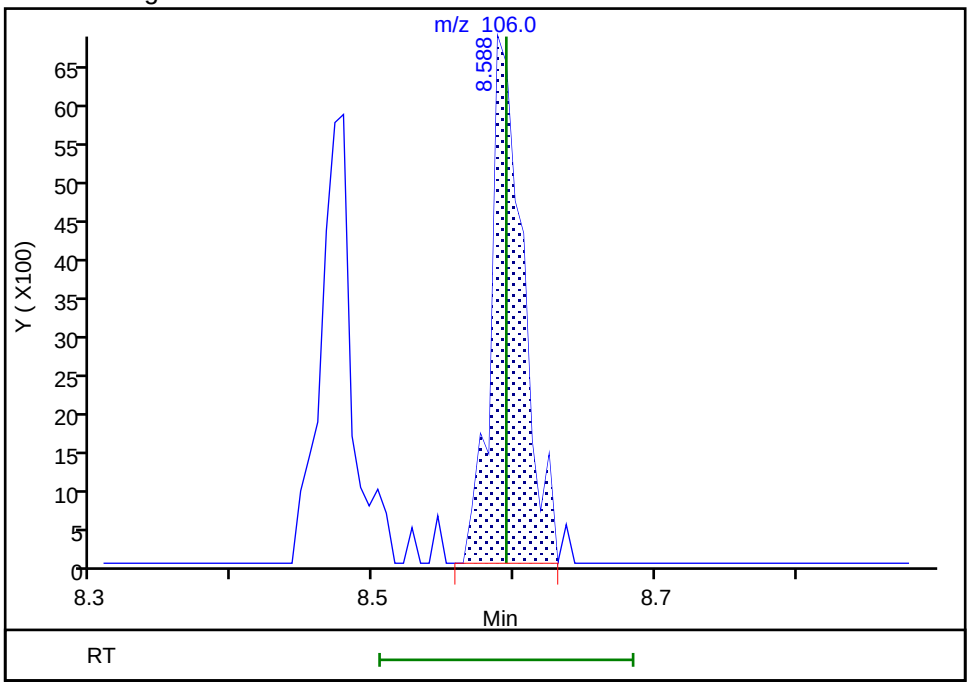
Processing Integration Results

RT: 8.59
Area: 9481
Amount: 0.448349
Amount Units: ug/L



Manual Integration Results

RT: 8.59
Area: 10857
Amount: 0.505200
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:46:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

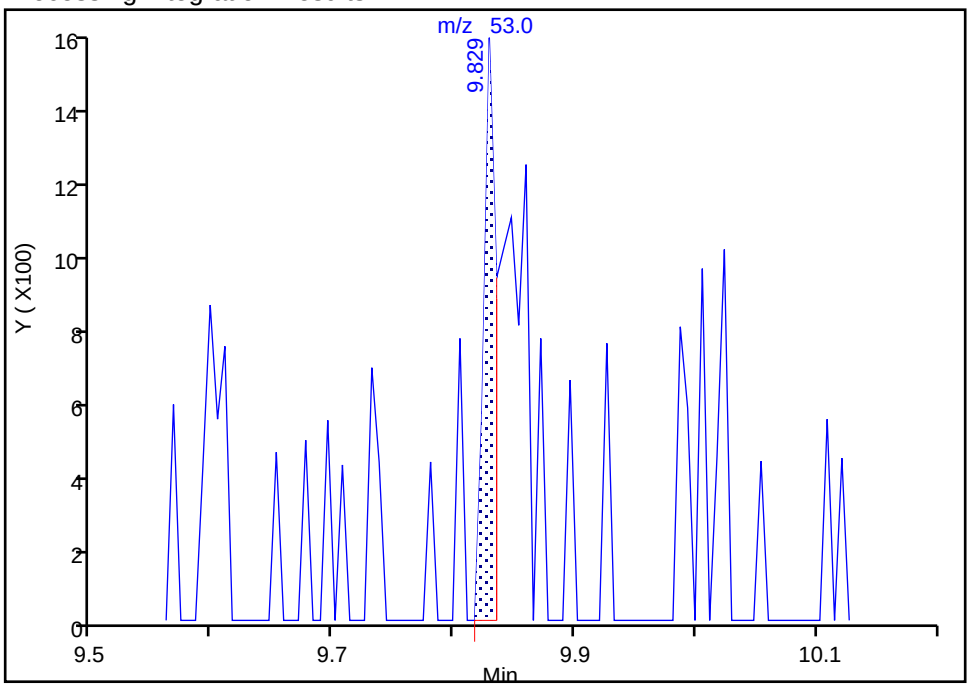
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0609.D
Injection Date: 15-Jun-2018 13:52:30 Instrument ID: HP5973N
Lims ID: IC 0.5
Client ID:
Operator ID: LH ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

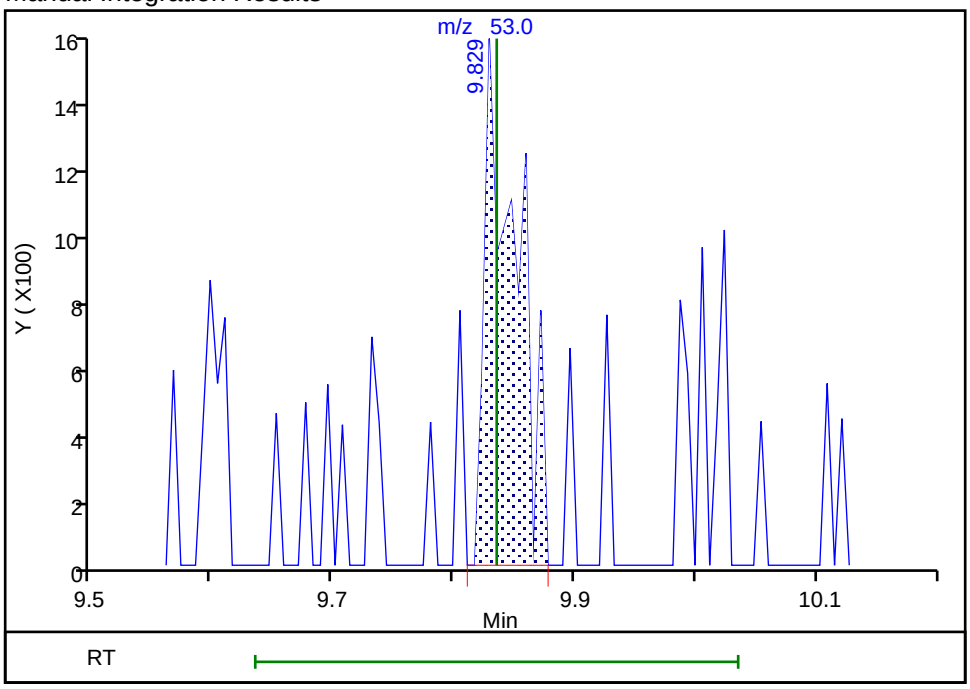
Processing Integration Results

RT: 9.83
Area: 1106
Amount: 0.192240
Amount Units: ug/L



Manual Integration Results

RT: 9.83
Area: 2864
Amount: 0.498080
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:46:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 15-Jun-2018 14:19:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0072372-008
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:08 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: HillL Date: 15-Jun-2018 17:10:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.357	0.001	99	203671	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.338	0.001	87	794429	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.741	0.001	96	408284	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.768	4.768	0.000	93	293033	25.0	25.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.072	5.066	0.006	0	377715	25.0	26.0	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1023685	25.0	24.4	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	327001	25.0	25.0	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	68	9545	1.00	0.7807	
13 Chloromethane	50	1.464	1.464	0.000	85	16293	1.00	0.9636	
14 Vinyl chloride	62	1.555	1.549	0.006	36	14527	1.00	1.02	
144 Butadiene	54	1.568	1.574	-0.006	72	16558	1.00	1.14	M
15 Bromomethane	94	1.860	1.854	0.006	26	8895	1.00	1.14	
16 Chloroethane	64	1.945	1.951	-0.006	30	8769	1.00	1.23	M
17 Dichlorofluoromethane	67	2.139	2.146	-0.007	90	17443	1.00	0.9899	M
18 Trichlorofluoromethane	101	2.158	2.152	0.006	66	15175	1.00	0.9405	
19 Ethyl ether	59	2.438	2.431	0.007	95	13913	1.00	1.08	
20 Acrolein	56	2.577	2.584	-0.007	72	10146	5.00	4.47	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	94	9944	1.00	0.9376	
21 1,1,2-Trichloro-1,2,2-trif	101	2.681	2.663	0.018	39	7224	1.00	0.7495	M
23 Acetone	43	2.742	2.742	0.000	94	22724	5.00	5.56	M
24 Iodomethane	142	2.778	2.778	0.000	93	17864	1.00	0.9161	
25 Carbon disulfide	76	2.833	2.827	0.006	96	24660	1.00	0.7535	
27 3-Chloro-1-propene	41	2.997	2.991	0.006	88	24524	1.00	1.06	
28 Methyl acetate	43	3.034	3.034	0.000	98	32730	2.00	2.31	M
30 Methylene Chloride	84	3.125	3.125	0.000	95	22753	1.00	0.9582	
31 2-Methyl-2-propanol	59	3.307	3.289	0.018	69	10287	10.0	10.6	M
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	97	36727	1.00	0.9313	
33 trans-1,2-Dichloroethene	96	3.362	3.356	0.006	66	12363	1.00	0.9876	
34 Acrylonitrile	53	3.393	3.380	0.013	96	53981	10.0	8.21	
35 Hexane	57	3.569	3.575	-0.006	88	16902	1.00	0.8621	Ma

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.770	3.764	0.006	94	22276	1.00	0.9465	
39 Vinyl acetate	43	3.825	3.819	0.006	95	51097	2.00	1.96	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	86	14813	1.00	0.9272	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	87	13207	1.00	0.9618	
44 2-Butanone (MEK)	43	4.348	4.336	0.012	82	31904	5.00	4.26	M
47 Chlorobromomethane	128	4.536	4.536	0.000	91	6074	1.00	0.8612	
49 Tetrahydrofuran	42	4.585	4.567	0.018	74	12661	2.00	2.19	
50 Chloroform	83	4.615	4.615	0.000	87	19272	1.00	0.8839	M
51 1,1,1-Trichloroethane	97	4.737	4.737	0.000	94	17488	1.00	0.9623	
52 Cyclohexane	56	4.761	4.761	0.000	35	20443	1.00	0.9380	
53 Carbon tetrachloride	117	4.889	4.889	0.000	89	13587	1.00	0.8796	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	80	13002	1.00	0.8168	
55 Benzene	78	5.096	5.090	0.006	94	44813	1.00	0.9644	
56 Isobutyl alcohol	43	5.102	5.090	0.012	40	25844	25.0	32.0	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	91	19864	1.00	0.9522	
59 n-Heptane	43	5.297	5.303	-0.006	93	17599	1.00	0.8864	
60 Trichloroethene	95	5.704	5.698	0.006	90	11861	1.00	0.9396	
62 Methylcyclohexane	83	5.838	5.838	0.000	95	16391	1.00	0.8196	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	82	11688	1.00	0.9257	
64 Dibromomethane	93	6.057	6.051	0.006	91	8001	1.00	0.9547	
66 1,4-Dioxane	88	6.082	6.069	0.013	28	2487	20.0	15.5	Ma
67 Dichlorobromomethane	83	6.209	6.209	0.000	91	13385	1.00	0.8599	
69 2-Chloroethyl vinyl ether	63	6.501	6.495	0.006	76	7979	1.00	0.9268	
71 cis-1,3-Dichloropropene	75	6.635	6.629	0.006	88	15982	1.00	0.8924	
72 4-Methyl-2-pentanone (MIBK	58	6.781	6.775	0.006	97	30063	5.00	4.74	
73 Toluene	92	6.933	6.933	0.000	98	29298	1.00	0.9569	
75 trans-1,3-Dichloropropene	75	7.195	7.189	0.006	95	14997	1.00	0.9143	
77 Ethyl methacrylate	69	7.256	7.256	0.000	89	12737	1.00	0.8449	
78 1,1,2-Trichloroethane	83	7.383	7.377	0.006	92	7666	1.00	0.8827	
79 Tetrachloroethene	166	7.469	7.469	0.000	93	12632	1.00	0.9410	
80 1,3-Dichloropropane	76	7.542	7.536	0.006	94	18480	1.00	0.9888	
82 2-Hexanone	43	7.621	7.615	0.006	98	48957	5.00	4.18	
83 Chlorodibromomethane	129	7.773	7.773	0.000	91	11137	1.00	0.9065	
84 Ethylene Dibromide	107	7.882	7.882	0.000	98	10492	1.00	0.9182	
85 Chlorobenzene	112	8.363	8.369	-0.006	95	31751	1.00	0.9117	
89 1,1,1,2-Tetrachloroethane	131	8.460	8.460	0.000	45	11932	1.00	0.9441	
88 Ethylbenzene	91	8.472	8.472	0.000	97	50521	1.00	0.8932	
90 m-Xylene & p-Xylene	106	8.588	8.594	-0.006	0	17518	1.00	0.8136	
91 o-Xylene	106	9.020	9.014	0.006	93	23599	1.00	1.05	
92 Styrene	104	9.044	9.044	0.000	91	33313	1.00	0.9227	
93 Bromoform	173	9.282	9.269	0.013	91	9252	1.00	1.17	
95 Isopropylbenzene	105	9.409	9.403	0.006	95	51845	1.00	0.8856	
97 Bromobenzene	156	9.738	9.744	-0.006	91	15017	1.00	0.9881	
98 1,1,2,2-Tetrachloroethane	83	9.780	9.780	0.000	92	13811	1.00	0.8910	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	83	5767	1.00	1.11	
100 N-Propylbenzene	91	9.841	9.835	0.006	98	62018	1.00	0.9303	
101 trans-1,4-Dichloro-2-buten	53	9.841	9.835	0.006	60	6373	1.00	1.11	
102 2-Chlorotoluene	126	9.939	9.933	0.007	96	11167	1.00	0.8057	
104 1,3,5-Trimethylbenzene	105	10.024	10.018	0.006	94	41177	1.00	0.8727	
105 4-Chlorotoluene	91	10.048	10.048	0.000	96	40322	1.00	0.9067	
106 tert-Butylbenzene	134	10.334	10.340	-0.006	92	10786	1.00	0.9500	
108 1,2,4-Trimethylbenzene	105	10.395	10.389	0.006	97	46235	1.00	0.9385	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	93	54893	1.00	0.8892	
110 1,3-Dichlorobenzene	146	10.681	10.675	0.006	95	28452	1.00	1.00	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	46841	1.00	0.8797	
113 1,4-Dichlorobenzene	146	10.772	10.760	0.012	77	27525	1.00	0.9640	
115 n-Butylbenzene	91	11.082	11.082	0.000	97	42215	1.00	0.8918	
116 1,2-Dichlorobenzene	146	11.119	11.113	0.006	97	24136	1.00	0.8789	
117 1,2-Dibromo-3-Chloropropan	75	11.831	11.837	-0.006	12	2161	1.00	0.7331	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	91	14840	1.00	0.8088	
120 Hexachlorobutadiene	225	12.658	12.652	0.006	92	7882	1.00	0.9220	
121 Naphthalene	128	12.743	12.737	0.006	97	44822	1.00	0.8382	
122 1,2,3-Trichlorobenzene	180	12.938	12.944	-0.006	90	14689	1.00	0.8713	
S 124 1,2-Dichloroethene, Total	1				0			1.95	
S 125 Total BTEX	1				0			4.68	
S 126 Xylenes, Total	1				0			1.87	
S 123 1,3-Dichloropropene, Total	1				0			1.81	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00127	Amount Added:	1.00	Units: uL	
GAS CORP mix_00286	Amount Added:	1.00	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

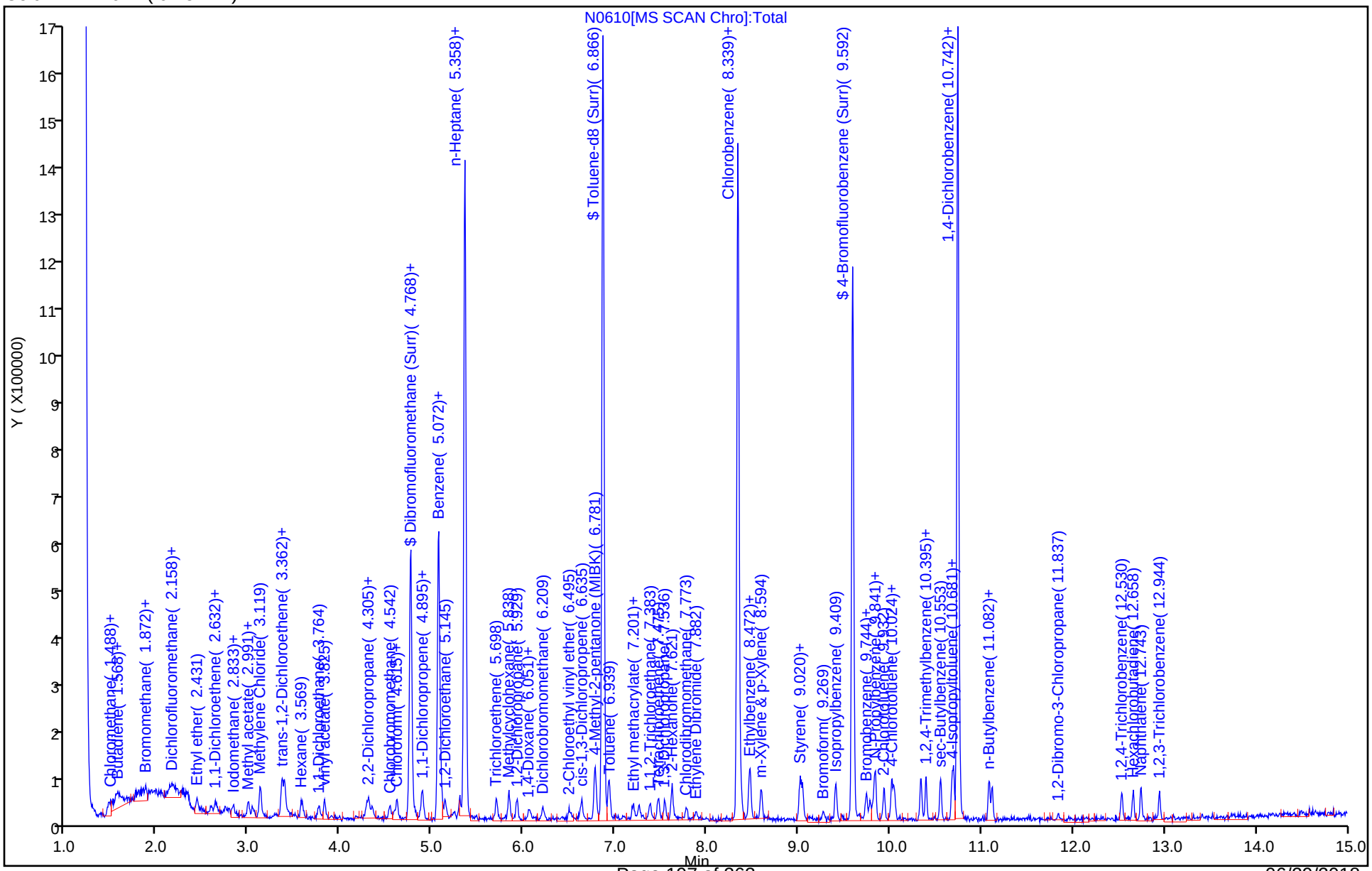
Report Date: 18-Jun-2018 12:44:11 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D

Injection Date:	15-Jun-2018 14:19:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

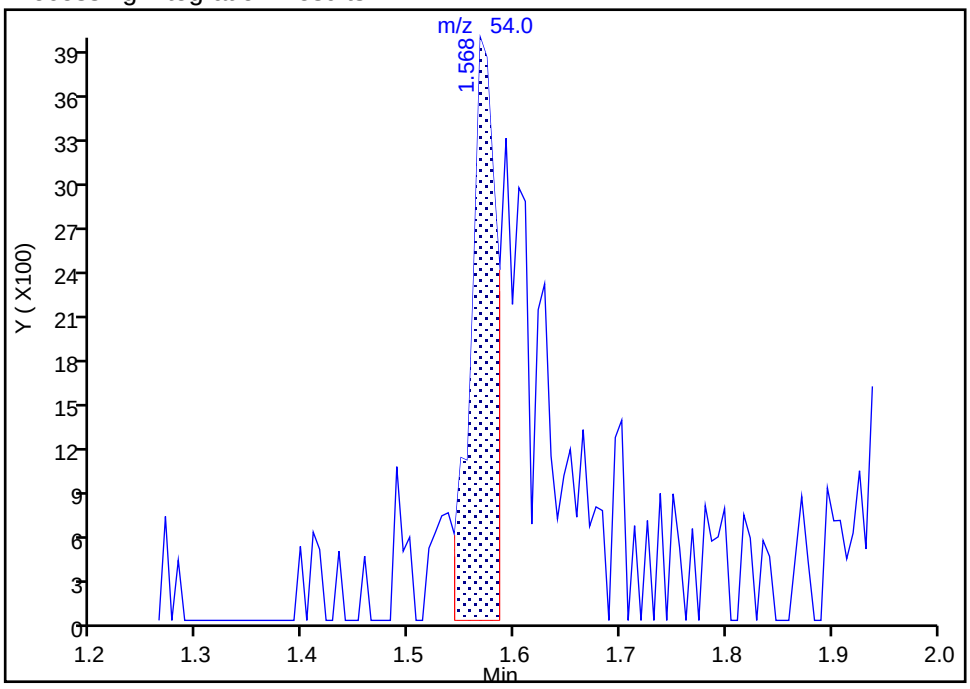
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

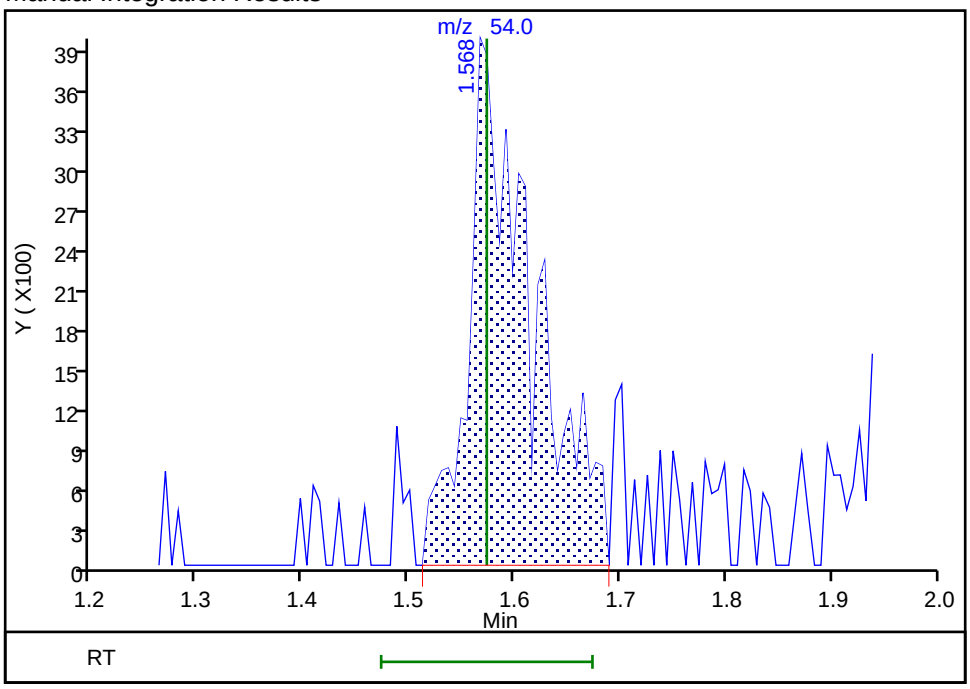
Processing Integration Results

RT: 1.57
Area: 6716
Amount: 0.544583
Amount Units: ug/L



Manual Integration Results

RT: 1.57
Area: 16558
Amount: 1.144498
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 19:10:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

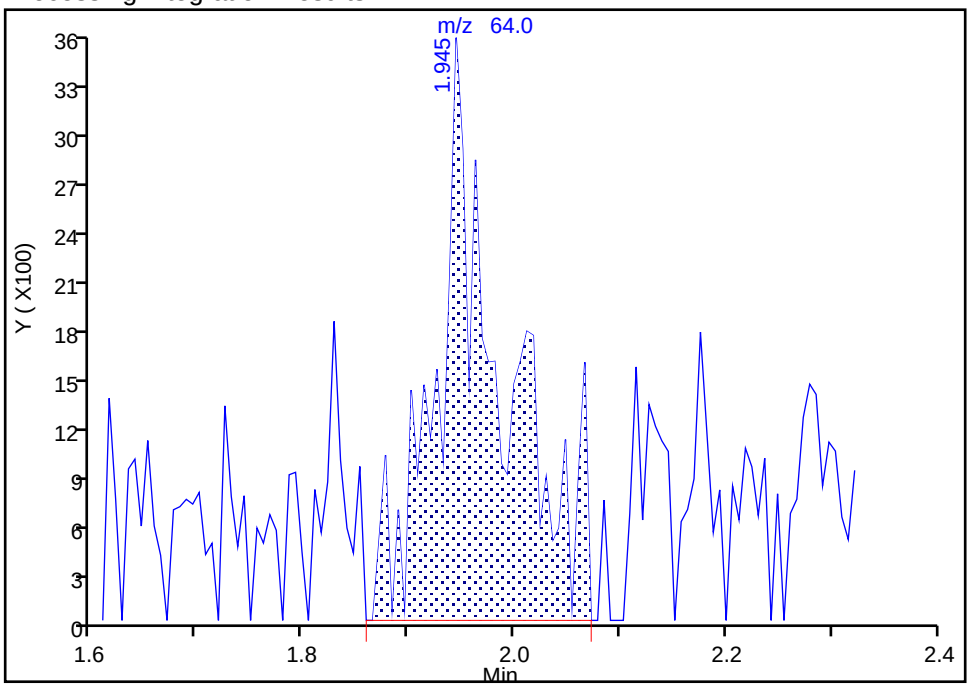
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

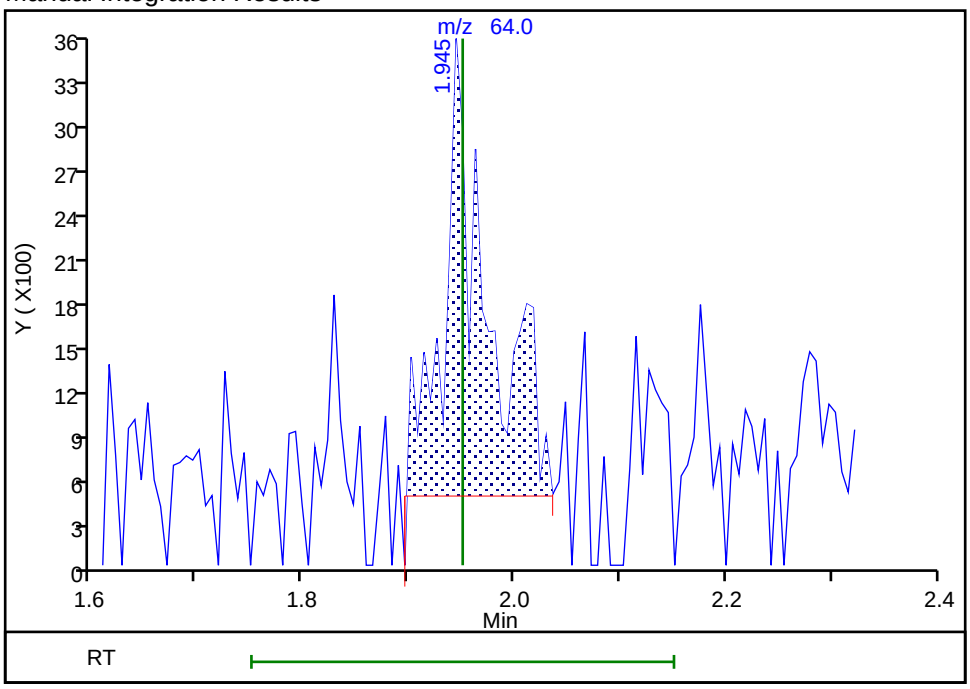
Processing Integration Results

RT: 1.94
Area: 15190
Amount: 1.717470
Amount Units: ug/L



Manual Integration Results

RT: 1.94
Area: 8769
Amount: 1.226231
Amount Units: ug/L



Reviewer: milligana, 16-Jun-2018 11:01:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

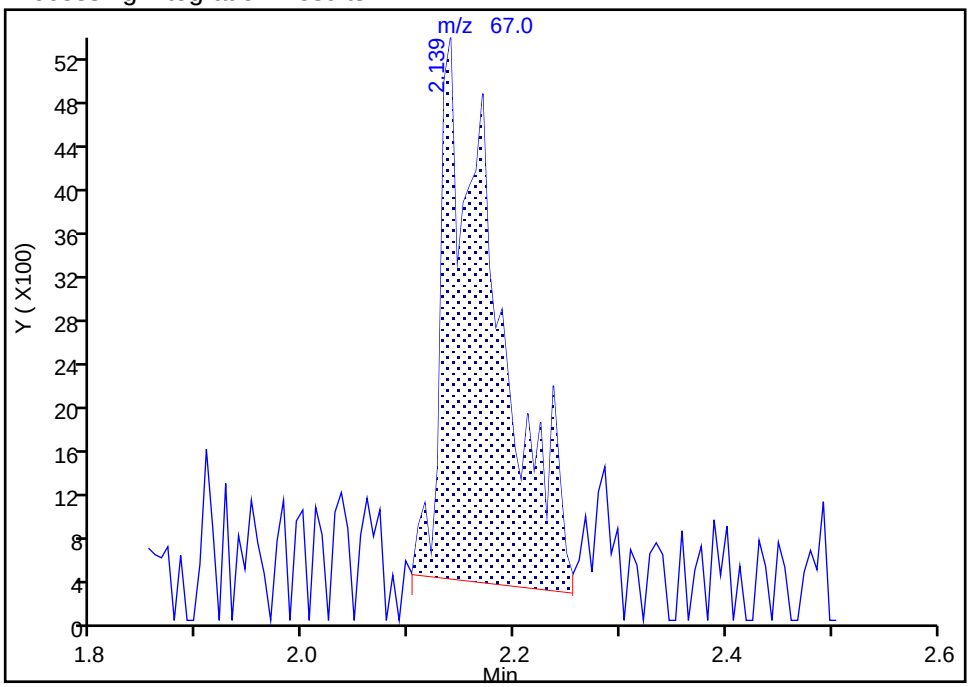
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

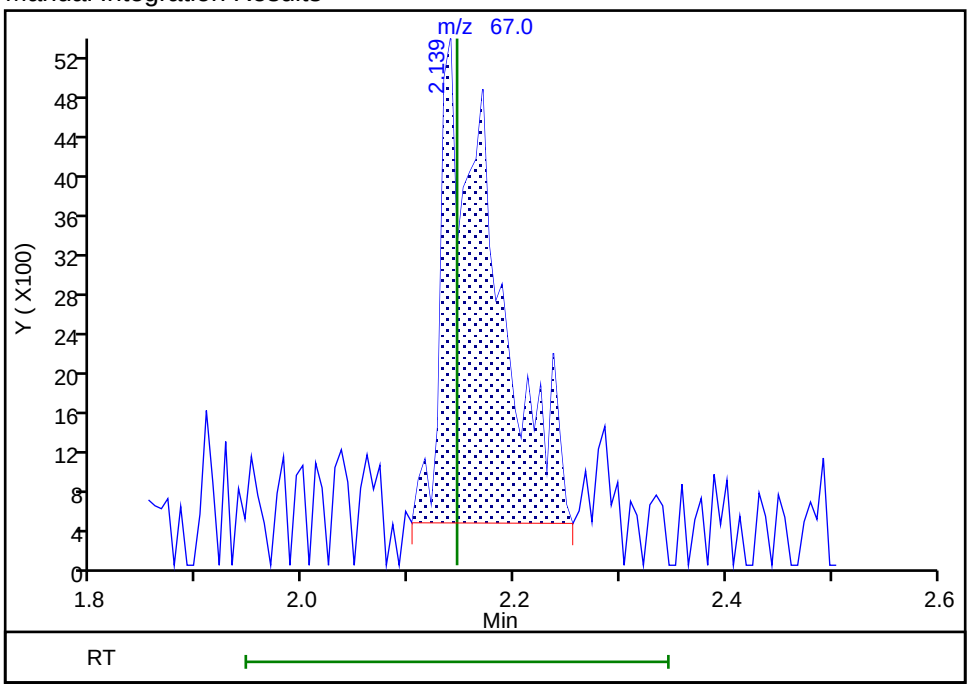
Processing Integration Results

RT: 2.14
Area: 18326
Amount: 1.046291
Amount Units: ug/L



Manual Integration Results

RT: 2.14
Area: 17443
Amount: 0.989936
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 19:12:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

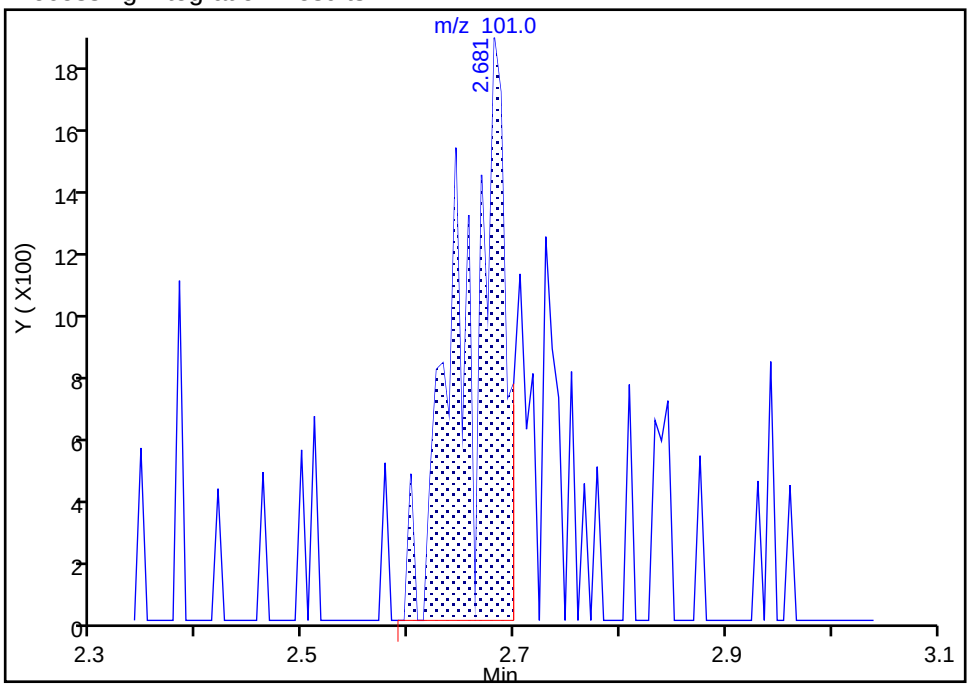
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

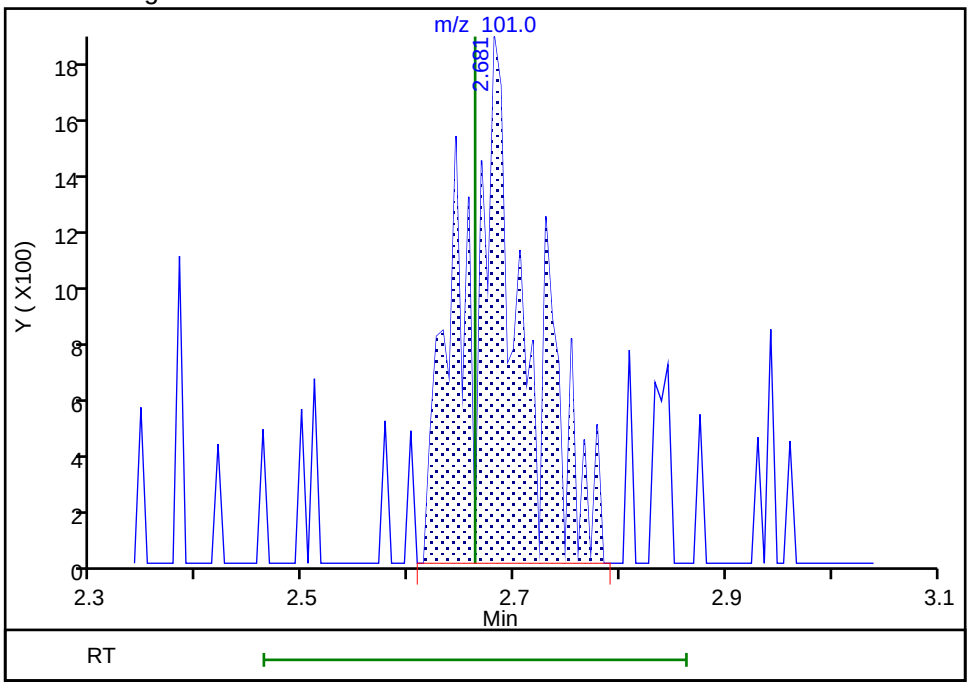
Processing Integration Results

RT: 2.68
Area: 4905
Amount: 0.807006
Amount Units: ug/L



Manual Integration Results

RT: 2.68
Area: 7224
Amount: 0.749491
Amount Units: ug/L



Reviewer: milligana, 16-Jun-2018 10:59:39
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

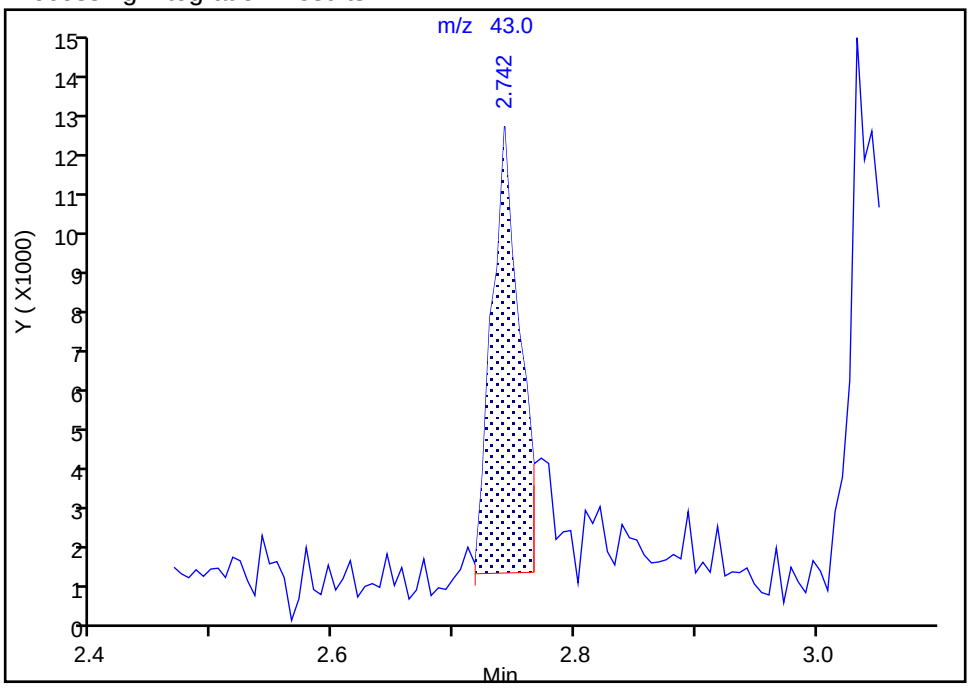
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

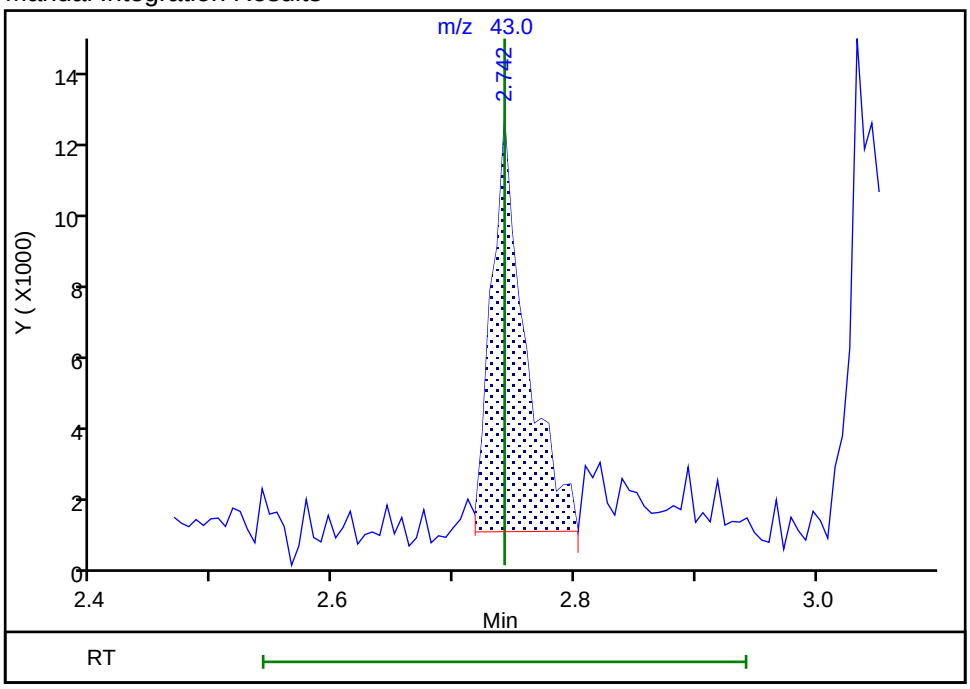
Processing Integration Results

RT: 2.74
Area: 18274
Amount: 4.241317
Amount Units: ug/L



Manual Integration Results

RT: 2.74
Area: 22724
Amount: 5.563554
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:07:34
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

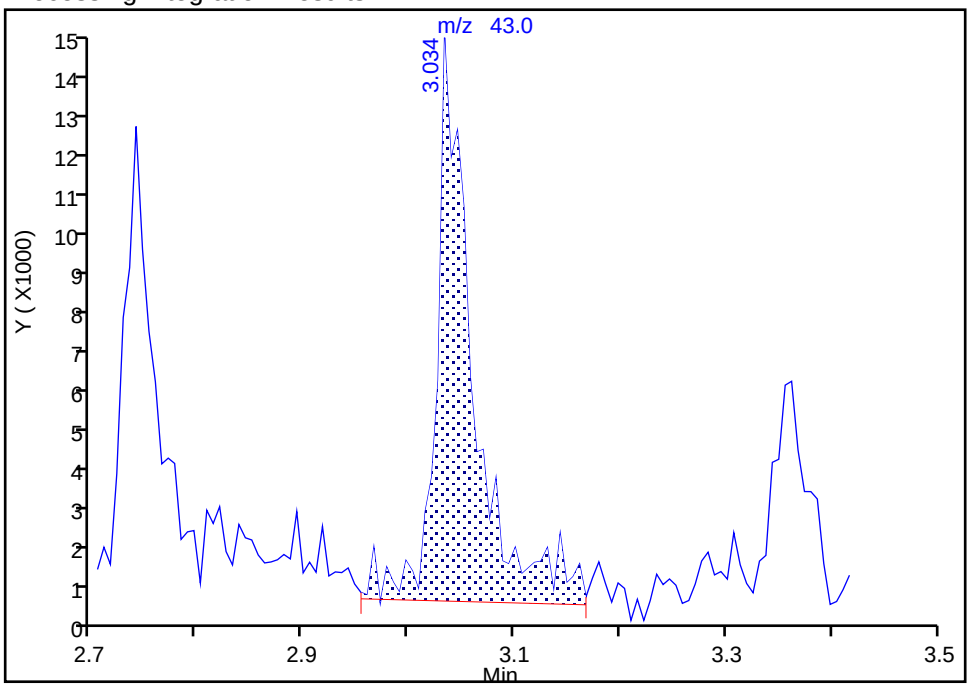
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

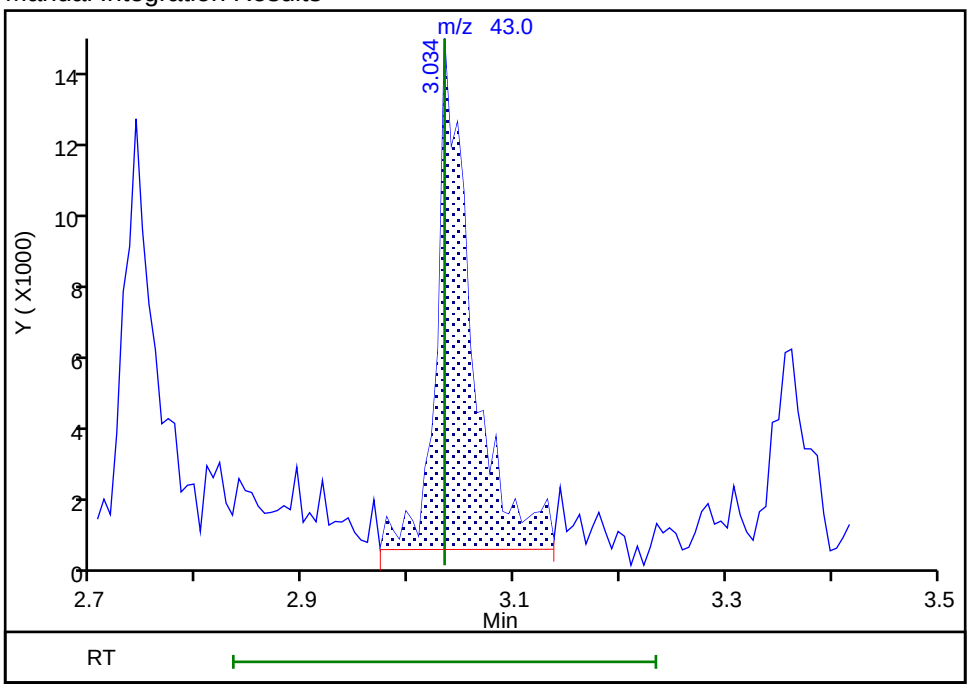
Processing Integration Results

RT: 3.03
Area: 34522
Amount: 2.411073
Amount Units: ug/L



Manual Integration Results

RT: 3.03
Area: 32730
Amount: 2.306536
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:08:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

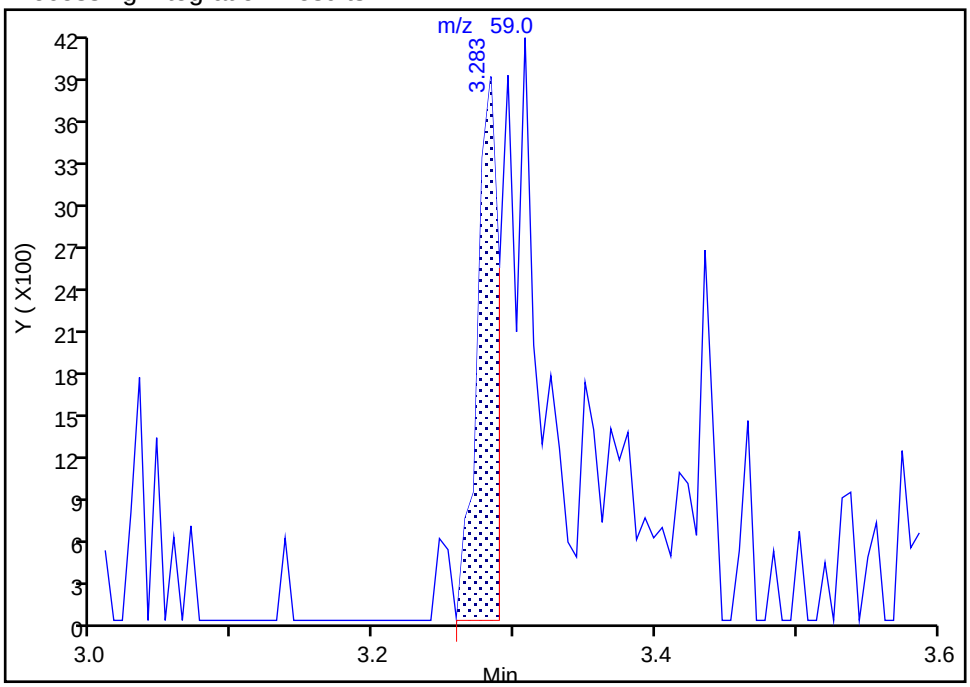
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

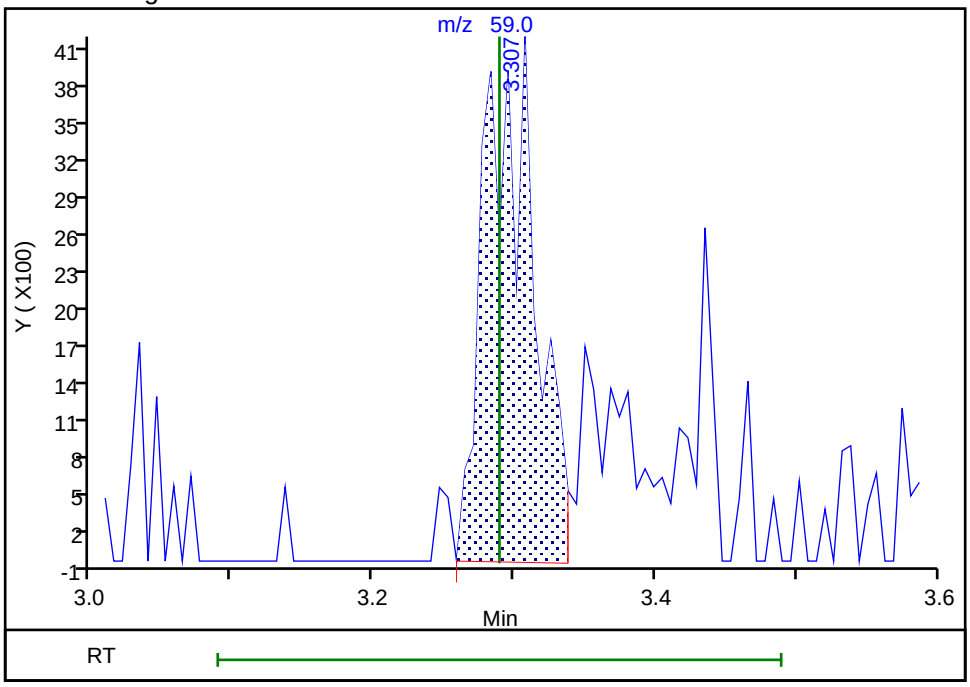
Processing Integration Results

RT: 3.28
Area: 4119
Amount: 5.494252
Amount Units: ug/L



Manual Integration Results

RT: 3.31
Area: 10287
Amount: 10.642360
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:08:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

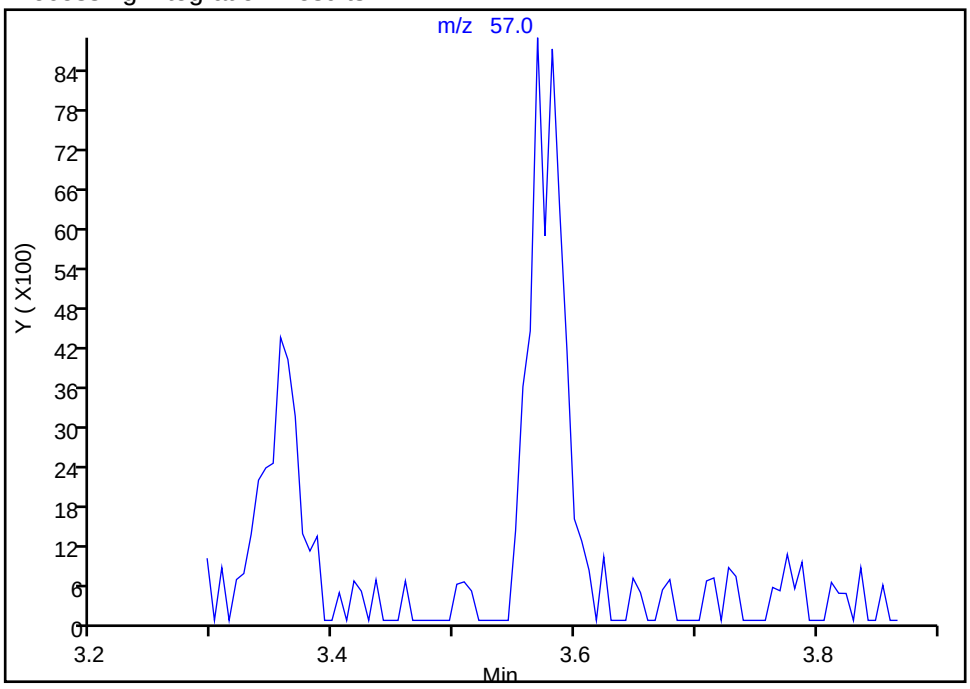
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

35 Hexane, CAS: 110-54-3

Signal: 1

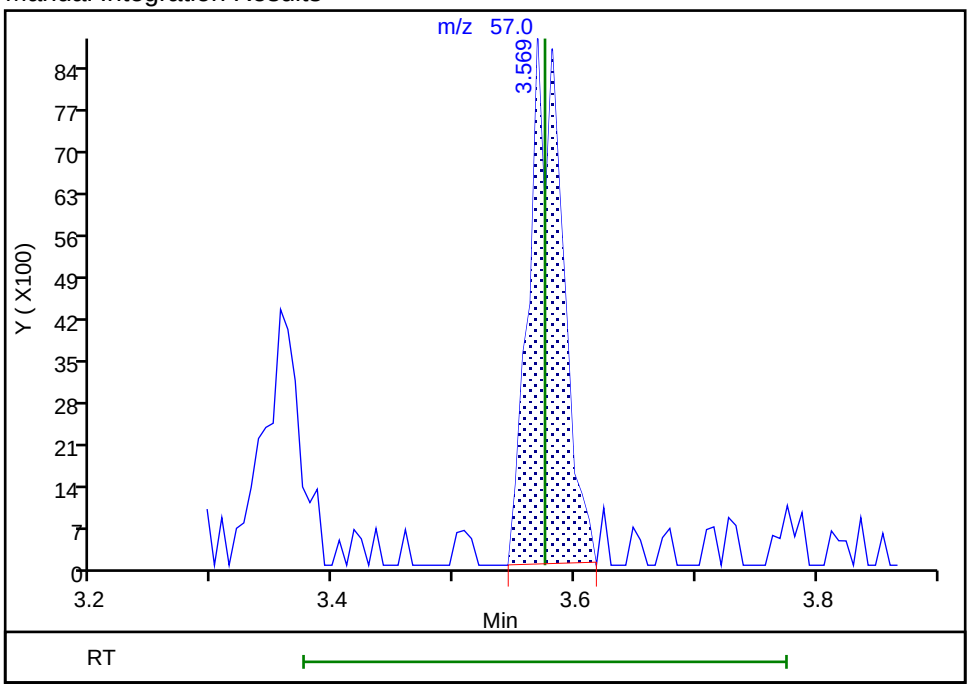
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.57
Area: 16902
Amount: 0.862096
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:09:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

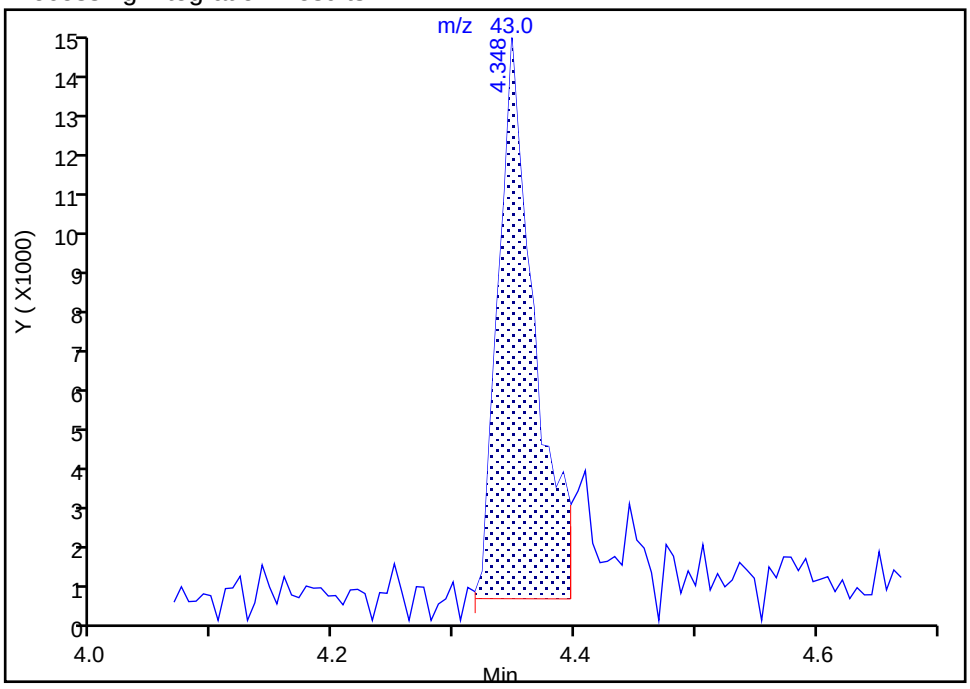
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

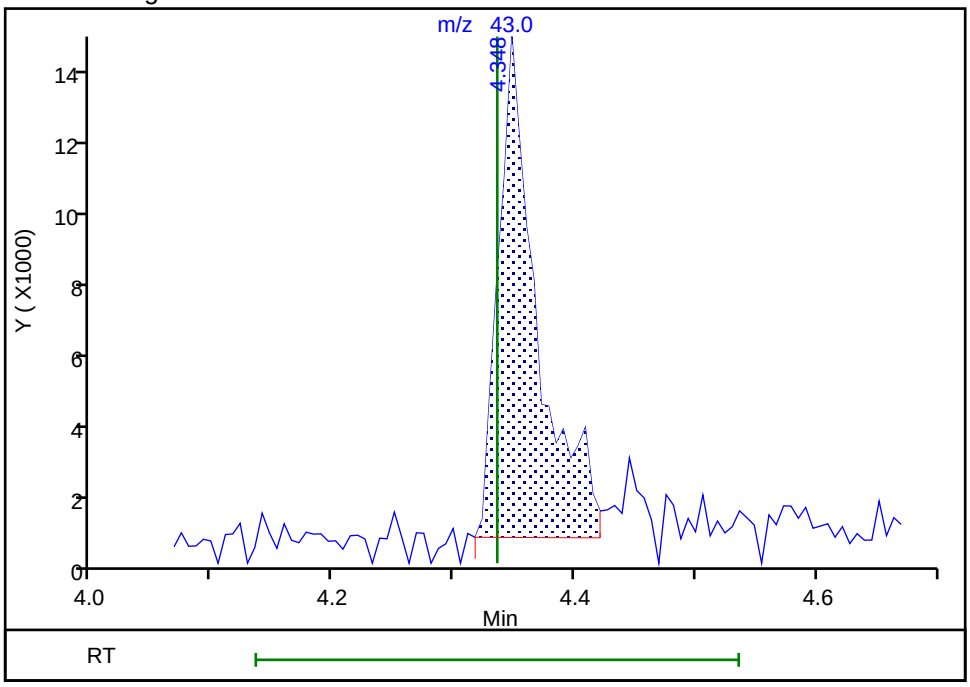
Processing Integration Results

RT: 4.35
Area: 29975
Amount: 3.973543
Amount Units: ug/L



Manual Integration Results

RT: 4.35
Area: 31904
Amount: 4.261282
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:09:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

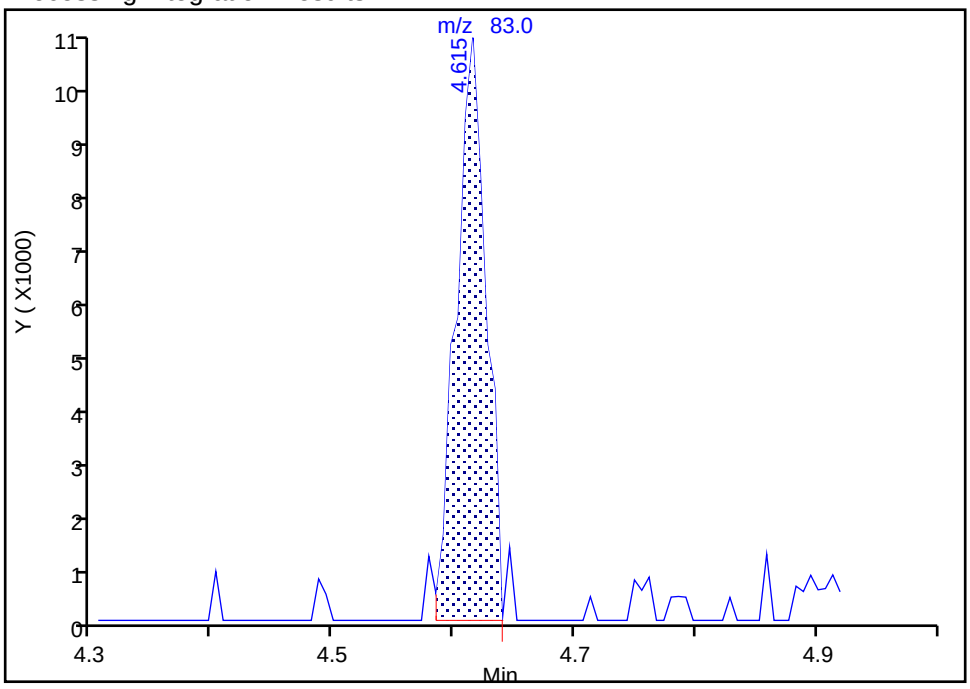
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

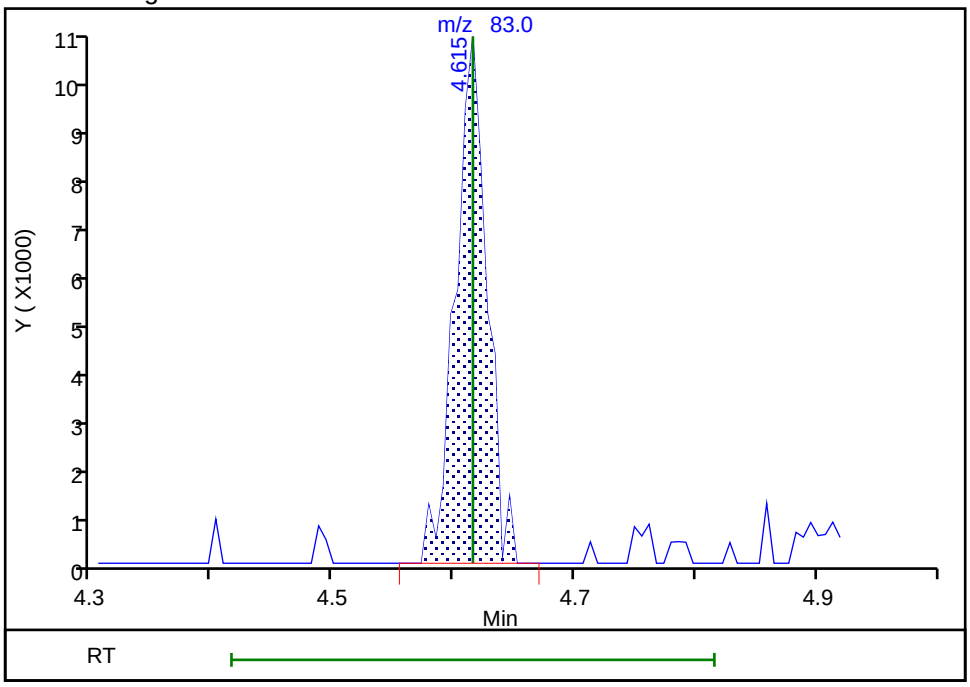
Processing Integration Results

RT: 4.62
Area: 18353
Amount: 0.858042
Amount Units: ug/L



Manual Integration Results

RT: 4.62
Area: 19272
Amount: 0.883930
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:10:20
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

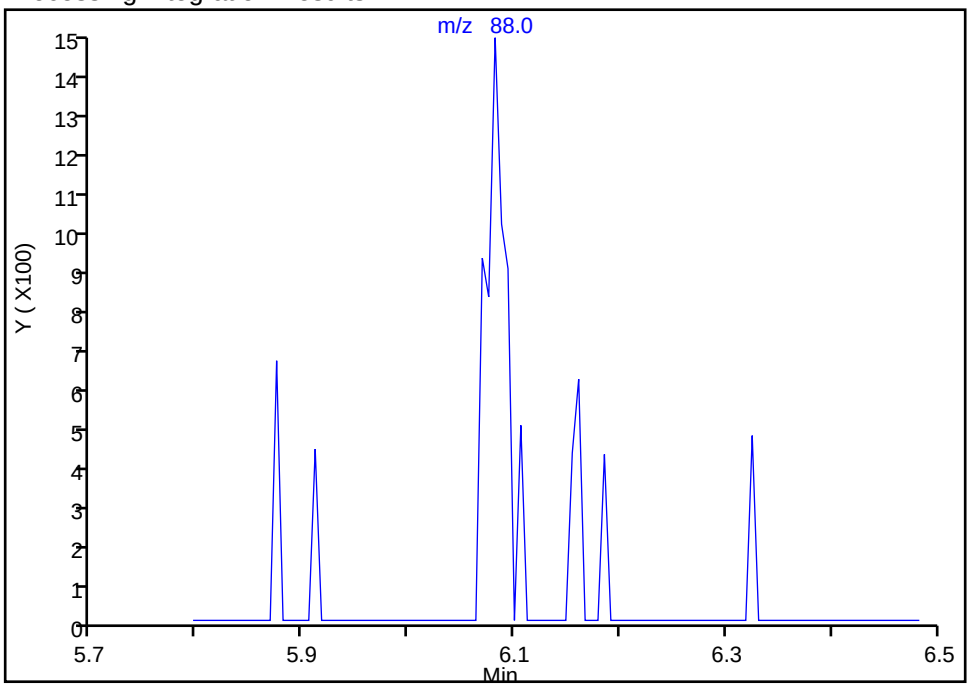
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0610.D
Injection Date: 15-Jun-2018 14:19:30 Instrument ID: HP5973N
Lims ID: IC
Client ID:
Operator ID: LH ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

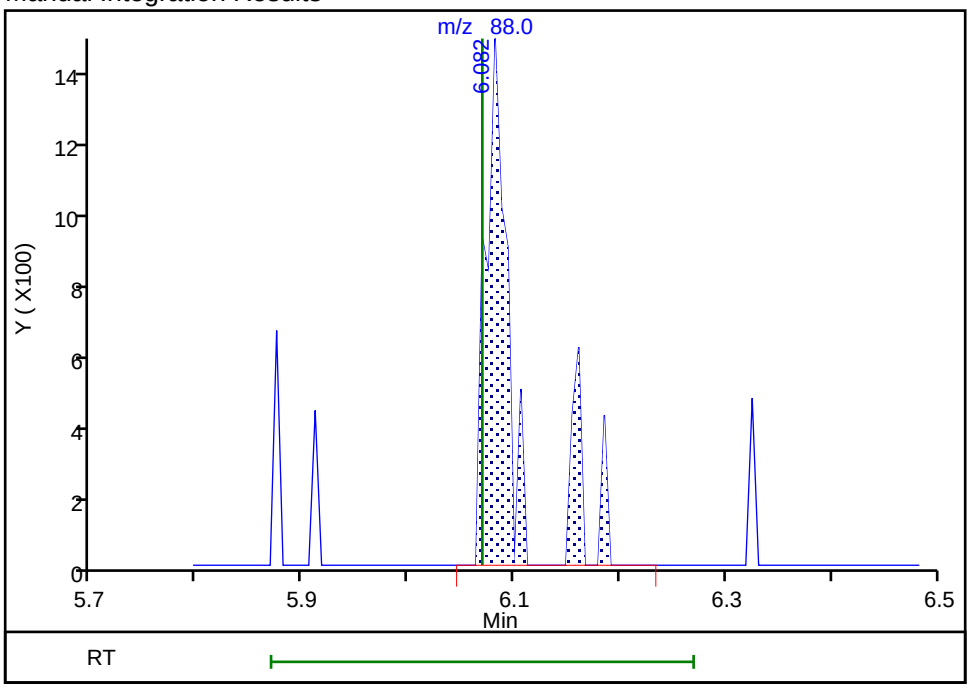
Not Detected
Expected RT: 6.07

Processing Integration Results



Manual Integration Results

RT: 6.08
Area: 2487
Amount: 15.495241
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:11:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 15-Jun-2018 14:46:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0072372-009
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:13 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: HillL Date: 15-Jun-2018 17:11:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.357	0.001	98	208306	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.338	0.001	88	775990	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.741	0.001	97	397132	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.768	-0.007	93	292346	25.0	24.6	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	361111	25.0	24.4	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1015521	25.0	24.8	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	89	317150	25.0	24.8	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	96	26117	2.00	2.09	
13 Chloromethane	50	1.470	1.464	0.006	99	36796	2.00	2.13	M
14 Vinyl chloride	62	1.549	1.549	0.000	94	31913	2.00	2.20	
144 Butadiene	54	1.574	1.574	0.000	82	30485	2.00	2.06	M
15 Bromomethane	94	1.847	1.854	-0.007	82	17795	2.00	2.23	
16 Chloroethane	64	1.945	1.951	-0.006	78	13279	2.00	1.82	M
17 Dichlorofluoromethane	67	2.152	2.146	0.006	92	39139	2.00	2.17	Ma
18 Trichlorofluoromethane	101	2.133	2.152	-0.019	79	33160	2.00	2.01	M
19 Ethyl ether	59	2.425	2.431	-0.006	96	24441	2.00	1.86	
20 Acrolein	56	2.584	2.584	0.000	95	21808	10.0	9.40	M
22 1,1-Dichloroethene	96	2.626	2.632	-0.006	95	21557	2.00	1.99	M
21 1,1,2-Trichloro-1,2,2-trif	101	2.650	2.663	-0.013	41	19112	2.00	1.94	M
23 Acetone	43	2.742	2.742	0.000	98	45821	10.0	11.0	
24 Iodomethane	142	2.778	2.778	0.000	98	42083	2.00	2.11	
25 Carbon disulfide	76	2.821	2.827	-0.006	99	75445	2.00	2.25	M
27 3-Chloro-1-propene	41	2.991	2.991	0.000	83	46712	2.00	1.98	
28 Methyl acetate	43	3.040	3.034	0.006	99	54523	4.00	3.76	
30 Methylene Chloride	84	3.119	3.125	-0.006	93	35863	2.00	1.94	M
31 2-Methyl-2-propanol	59	3.295	3.289	0.006	85	18137	20.0	18.3	M
33 trans-1,2-Dichloroethene	96	3.356	3.356	0.000	88	27808	2.00	2.17	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	97	74049	2.00	1.84	
34 Acrylonitrile	53	3.387	3.380	0.007	98	131174	20.0	19.5	M
35 Hexane	57	3.569	3.575	-0.006	93	41324	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.758	3.764	-0.006	96	43458	2.00	1.81	
39 Vinyl acetate	43	3.819	3.819	0.000	97	93218	4.00	3.49	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	89	33175	2.00	2.03	
43 cis-1,2-Dichloroethene	96	4.311	4.305	0.006	84	29118	2.00	2.07	
44 2-Butanone (MEK)	43	4.342	4.336	0.006	98	65267	10.0	8.52	
47 Chlorobromomethane	128	4.530	4.536	-0.006	95	14230	2.00	1.97	
49 Tetrahydrofuran	42	4.573	4.567	0.006	80	18835	4.00	3.18	
50 Chloroform	83	4.615	4.615	0.000	96	43392	2.00	1.95	
51 1,1,1-Trichloroethane	97	4.737	4.737	0.000	85	37037	2.00	1.99	
52 Cyclohexane	56	4.768	4.761	0.007	37	46345	2.00	2.08	
53 Carbon tetrachloride	117	4.883	4.889	-0.006	86	30743	2.00	1.95	
54 1,1-Dichloropropene	75	4.889	4.895	-0.006	84	30124	2.00	1.85	
56 Isobutyl alcohol	43	5.090	5.090	0.000	45	38851	50.0	47.0	M
55 Benzene	78	5.090	5.090	0.000	95	96861	2.00	2.04	
57 1,2-Dichloroethane	62	5.145	5.139	0.006	96	43013	2.00	2.02	
59 n-Heptane	43	5.303	5.303	0.000	92	34837	2.00	1.72	
60 Trichloroethene	95	5.698	5.698	0.000	93	26268	2.00	2.03	
62 Methylcyclohexane	83	5.844	5.838	0.006	94	43024	2.00	2.10	
63 1,2-Dichloropropane	63	5.930	5.923	0.007	87	25810	2.00	2.00	
64 Dibromomethane	93	6.057	6.051	0.006	88	16844	2.00	1.97	
66 1,4-Dioxane	88	6.124	6.069	0.055	28	5905	40.0	37.7	M
67 Dichlorobromomethane	83	6.209	6.209	0.000	96	31858	2.00	2.00	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	93	15657	2.00	1.78	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	89	32655	2.00	1.78	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	57205	10.0	9.23	
73 Toluene	92	6.933	6.933	0.000	97	58432	2.00	1.95	
75 trans-1,3-Dichloropropene	75	7.195	7.189	0.006	92	27295	2.00	1.70	
77 Ethyl methacrylate	69	7.256	7.256	0.000	95	26940	2.00	1.83	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	90	16394	2.00	1.93	
79 Tetrachloroethene	166	7.469	7.469	0.000	92	25843	2.00	1.97	
80 1,3-Dichloropropane	76	7.542	7.536	0.006	96	34479	2.00	1.89	
82 2-Hexanone	43	7.621	7.615	0.006	97	104708	10.0	9.16	
83 Chlorodibromomethane	129	7.773	7.773	0.000	89	23057	2.00	1.92	
84 Ethylene Dibromide	107	7.882	7.882	0.000	99	20231	2.00	1.81	
85 Chlorobenzene	112	8.363	8.369	-0.006	97	66622	2.00	1.96	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.460	0.006	44	22310	2.00	1.81	
88 Ethylbenzene	91	8.472	8.472	0.000	99	106368	2.00	1.93	
90 m-Xylene & p-Xylene	106	8.600	8.594	0.006	0	41776	2.00	1.99	
91 o-Xylene	106	9.014	9.014	0.000	98	40613	2.00	1.86	
92 Styrene	104	9.044	9.044	0.000	93	68788	2.00	1.95	
93 Bromoform	173	9.282	9.269	0.013	93	12946	2.00	1.67	
95 Isopropylbenzene	105	9.409	9.403	0.006	96	113200	2.00	1.99	
97 Bromobenzene	156	9.750	9.744	0.006	90	29254	2.00	1.98	
98 1,1,2,2-Tetrachloroethane	83	9.787	9.780	0.006	92	30957	2.00	2.05	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	90	10836	2.00	2.14	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	61	9456	2.00	1.69	
100 N-Propylbenzene	91	9.841	9.835	0.006	98	127750	2.00	1.97	
102 2-Chlorotoluene	126	9.939	9.933	0.007	95	27100	2.00	2.01	
104 1,3,5-Trimethylbenzene	105	10.024	10.018	0.006	94	92177	2.00	2.01	
105 4-Chlorotoluene	91	10.048	10.048	0.000	96	84162	2.00	1.95	
106 tert-Butylbenzene	134	10.340	10.340	0.000	94	21522	2.00	1.95	
108 1,2,4-Trimethylbenzene	105	10.389	10.389	0.000	97	94907	2.00	1.98	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	121210	2.00	2.02	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	97	52675	2.00	1.91	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	98	104809	2.00	2.02	
113 1,4-Dichlorobenzene	146	10.760	10.760	0.000	91	57197	2.00	2.06	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	88976	2.00	1.93	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	93	50025	2.00	1.87	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	85	5169	2.00	1.80	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	34189	2.00	1.92	
120 Hexachlorobutadiene	225	12.652	12.652	0.000	89	15756	2.00	1.89	
121 Naphthalene	128	12.737	12.737	0.000	97	92256	2.00	1.77	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	95	30242	2.00	1.84	
S 126 Xylenes, Total	1				0			3.84	
S 123 1,3-Dichloropropene, Total	1				0			3.49	
S 124 1,2-Dichloroethene, Total	1				0			4.25	
S 125 Total BTEX	1				0			9.76	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00127	Amount Added:	2.00	Units: uL	
GAS CORP mix_00286	Amount Added:	2.00	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

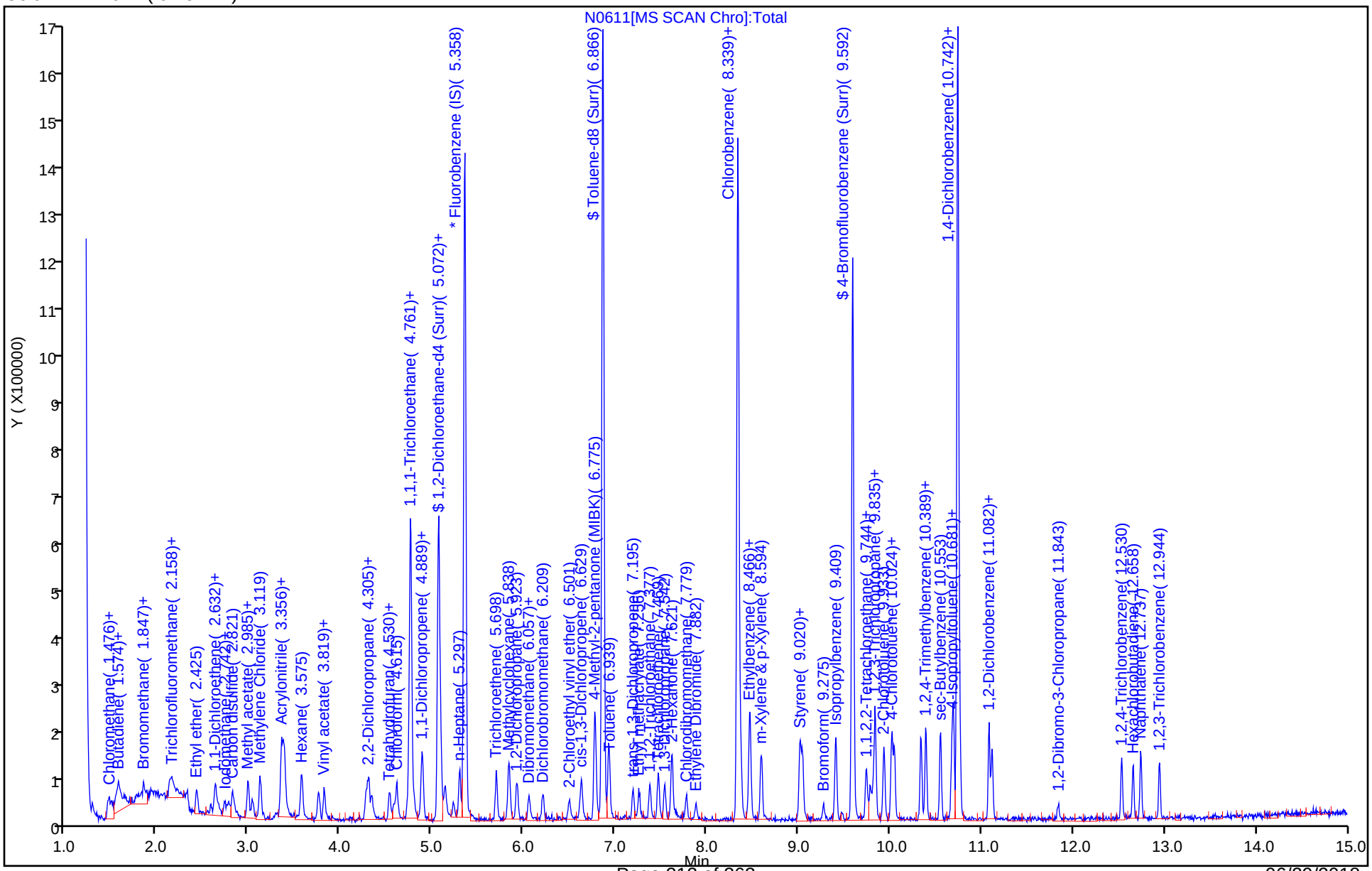
Report Date: 18-Jun-2018 12:44:16 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D

Injection Date:	15-Jun-2018 14:46:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 2			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

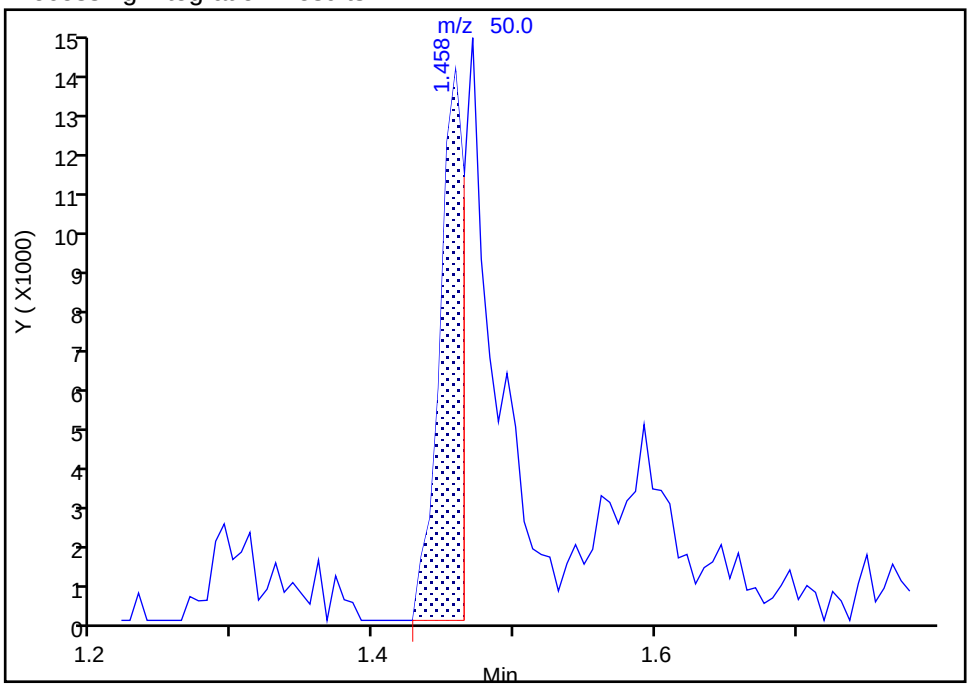
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

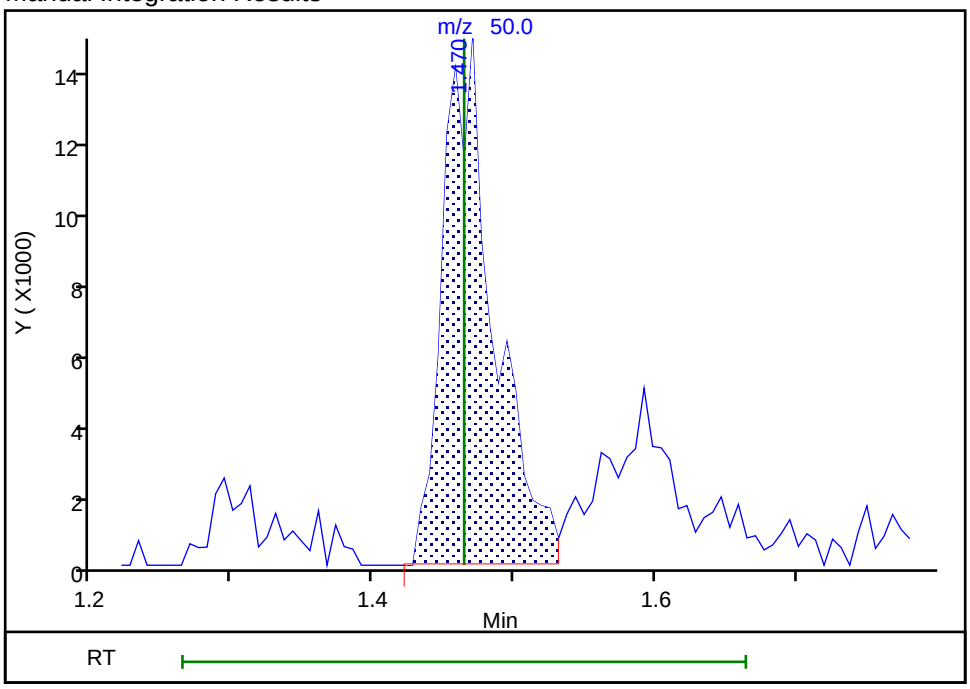
Processing Integration Results

RT: 1.46
Area: 17127
Amount: 1.129916
Amount Units: ug/L



Manual Integration Results

RT: 1.47
Area: 36796
Amount: 2.127868
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:30:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

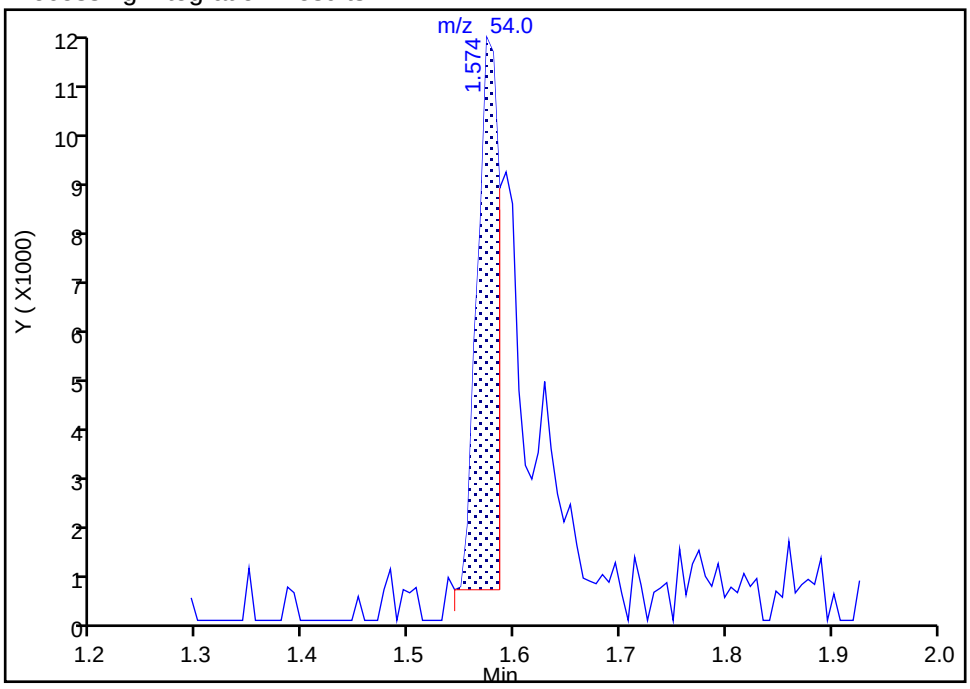
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

144 Butadiene, CAS: 106-99-0

Signal: 1

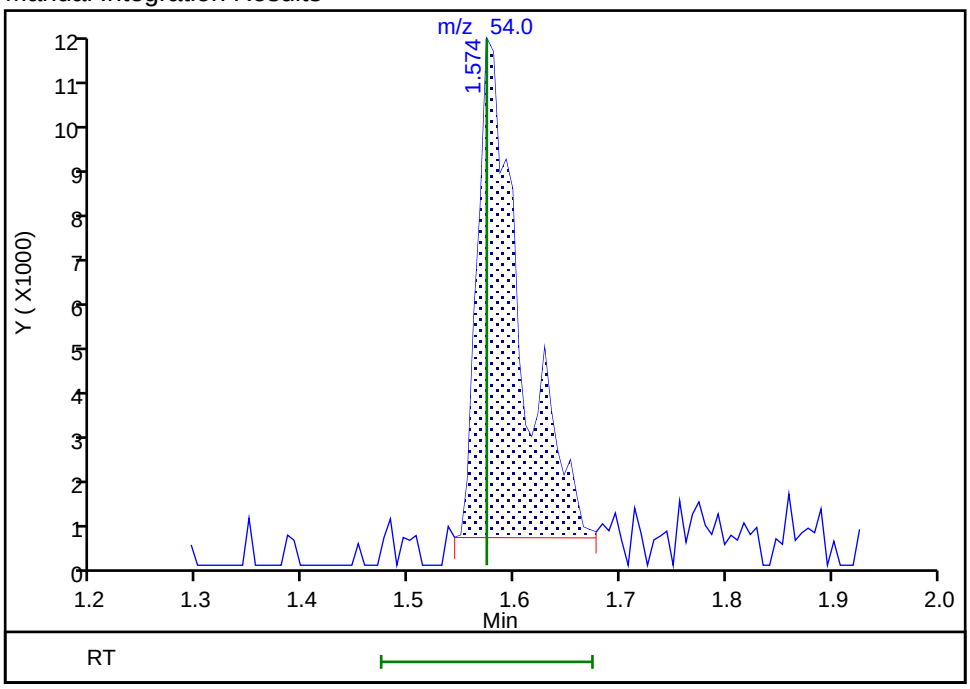
Processing Integration Results

RT: 1.57
Area: 15678
Amount: 1.126622
Amount Units: ug/L



Manual Integration Results

RT: 1.57
Area: 30485
Amount: 2.060255
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:30:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

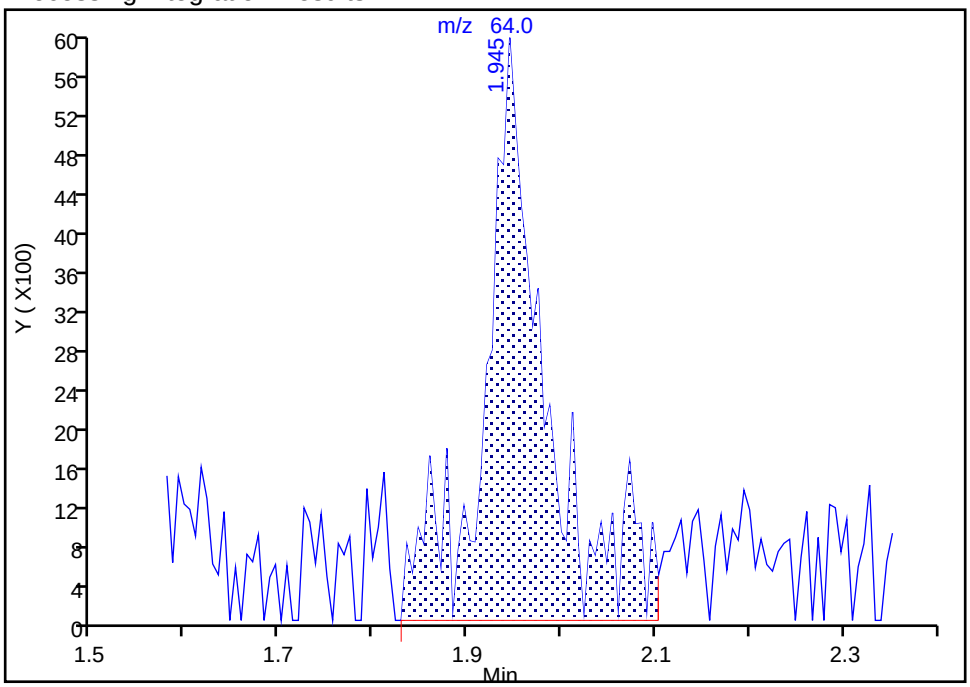
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

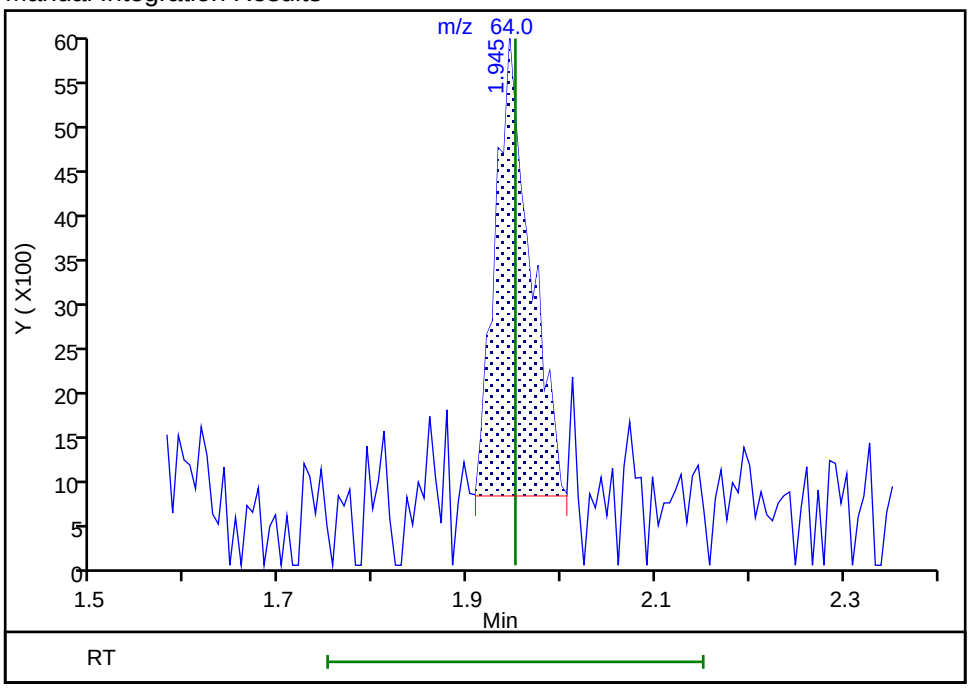
Processing Integration Results

RT: 1.94
Area: 26772
Amount: 3.338993
Amount Units: ug/L



Manual Integration Results

RT: 1.94
Area: 13279
Amount: 1.815579
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:31:06
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

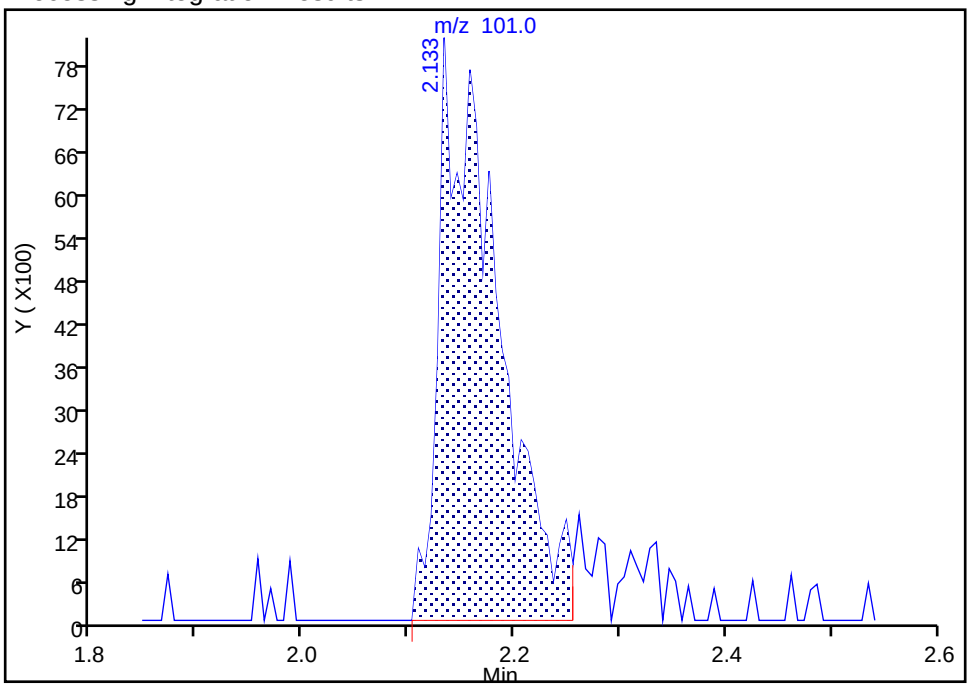
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

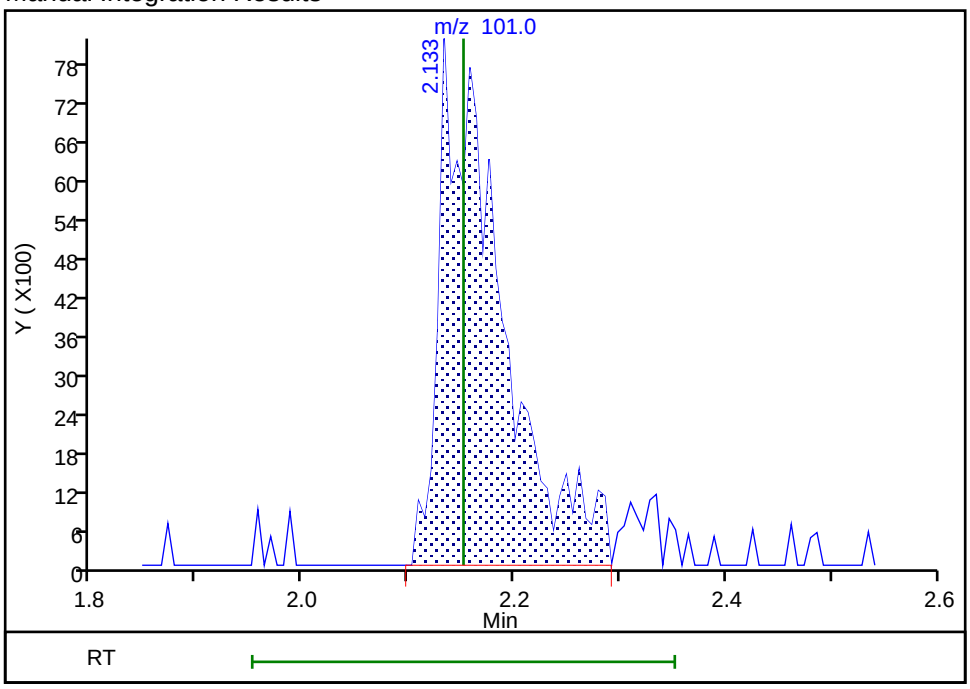
Processing Integration Results

RT: 2.13
Area: 31309
Amount: 1.910634
Amount Units: ug/L



Manual Integration Results

RT: 2.13
Area: 33160
Amount: 2.009405
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:32:09
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

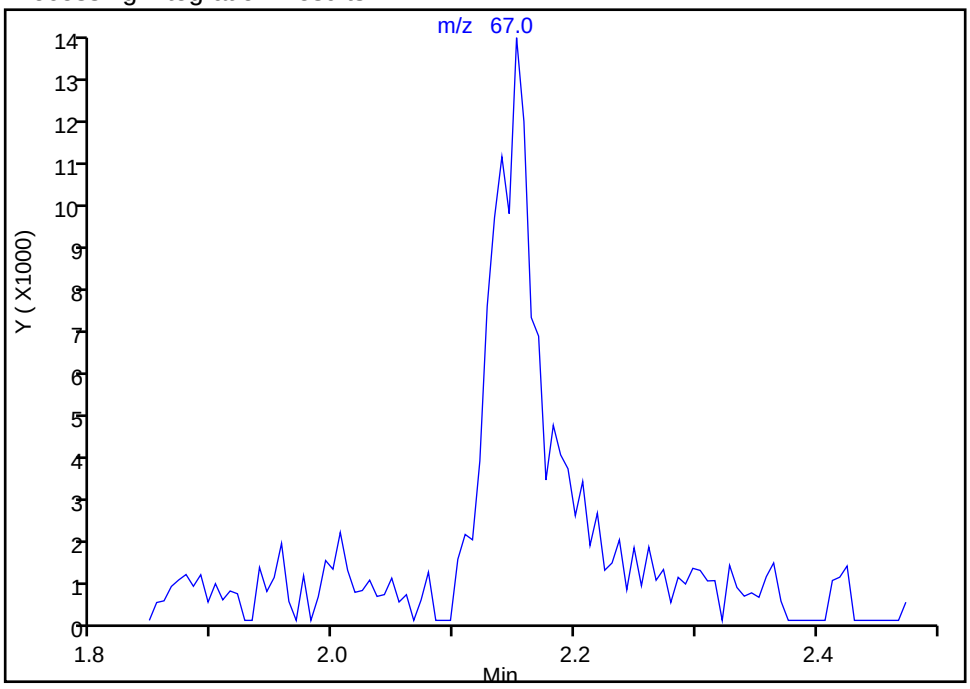
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

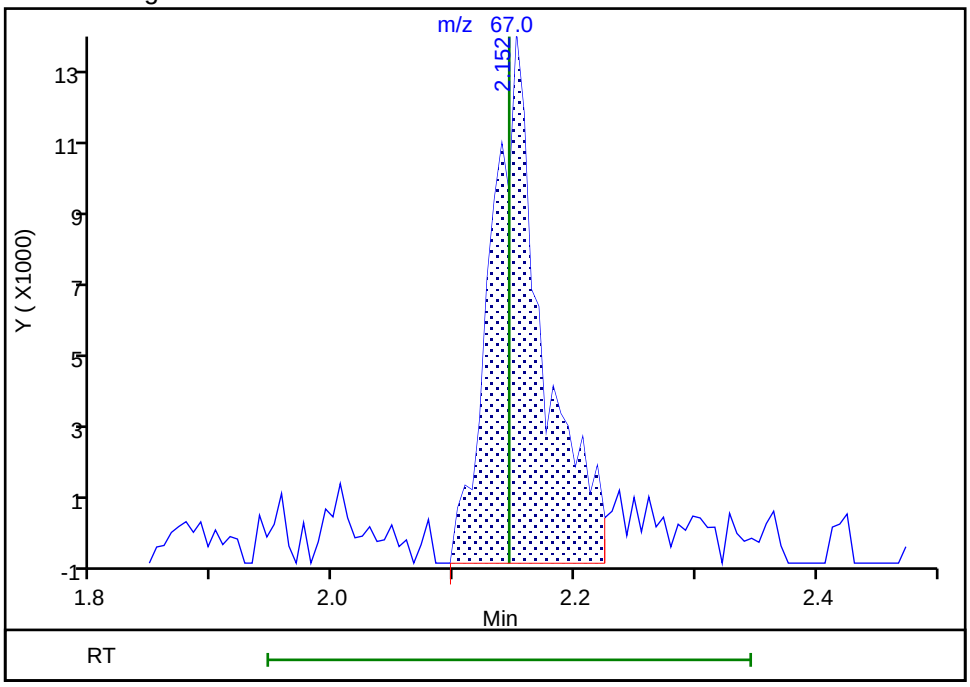
Not Detected
Expected RT: 2.15

Processing Integration Results



Manual Integration Results

RT: 2.15
Area: 39139
Amount: 2.171817
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:31:44
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

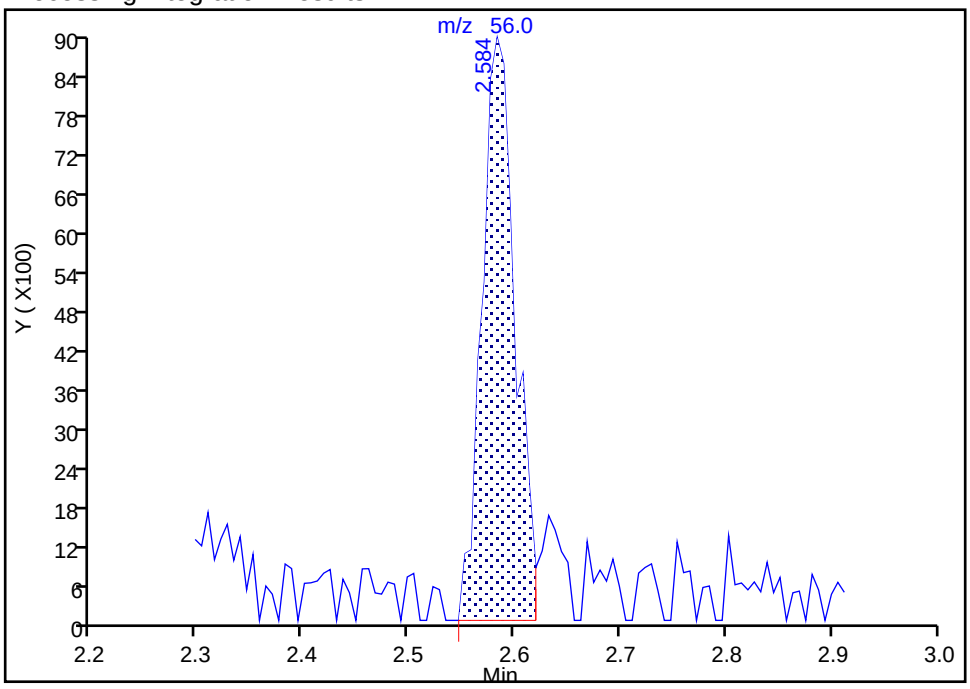
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

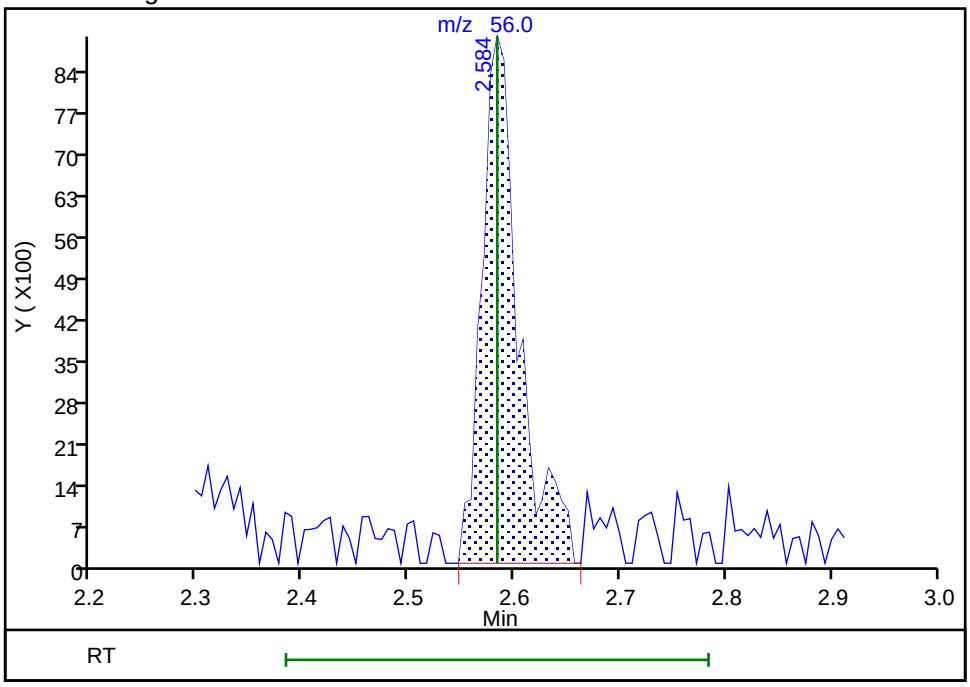
Processing Integration Results

RT: 2.58
Area: 19605
Amount: 8.884625
Amount Units: ug/L



Manual Integration Results

RT: 2.58
Area: 21808
Amount: 9.398612
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:32:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

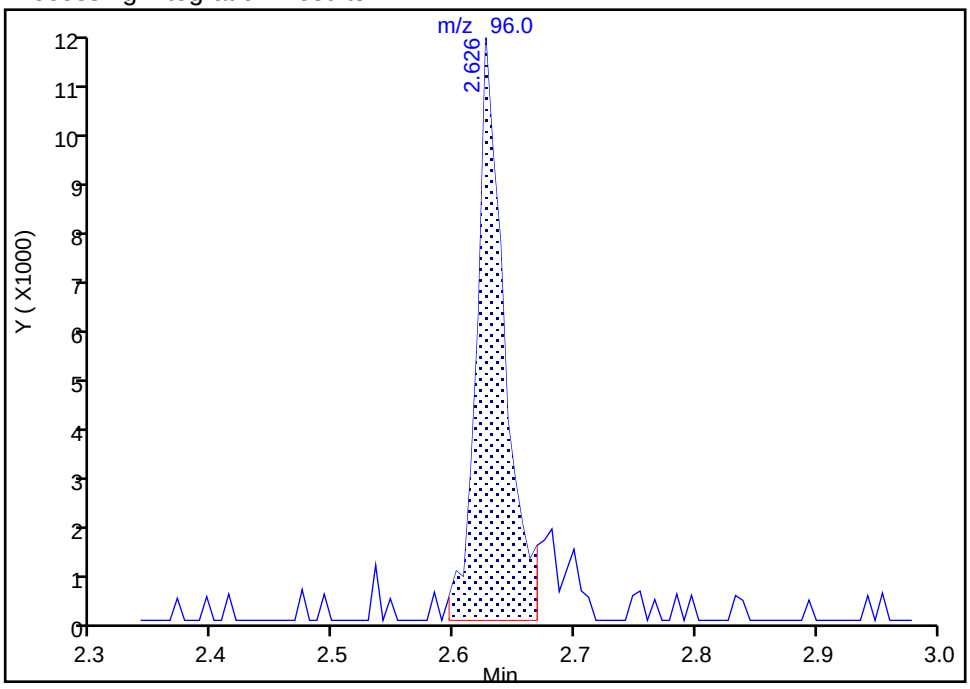
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

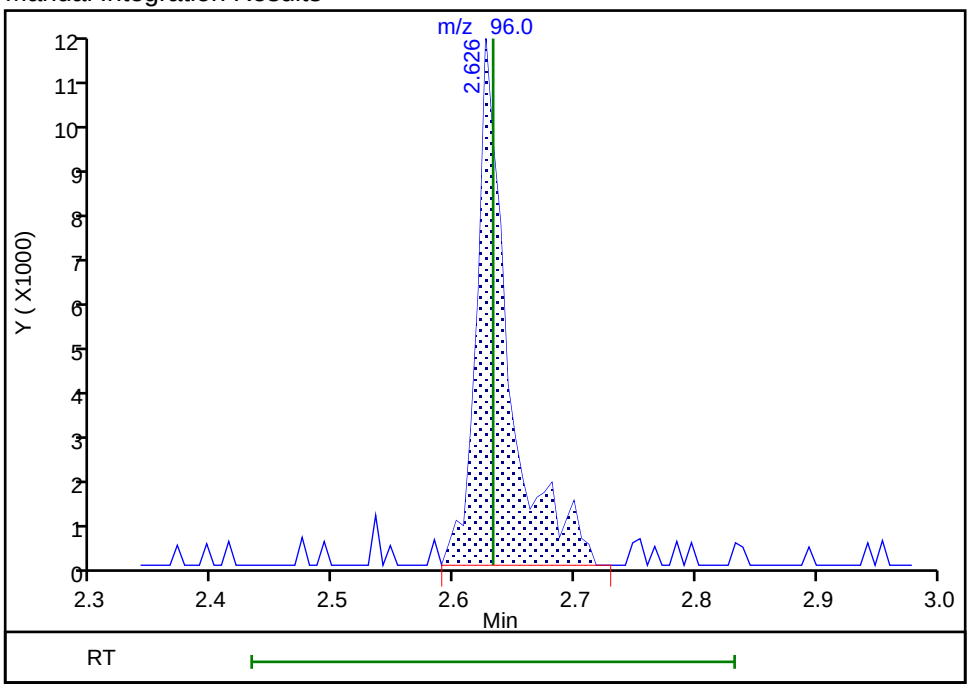
Processing Integration Results

RT: 2.63
Area: 18820
Amount: 1.766775
Amount Units: ug/L



Manual Integration Results

RT: 2.63
Area: 21557
Amount: 1.987245
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:32:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

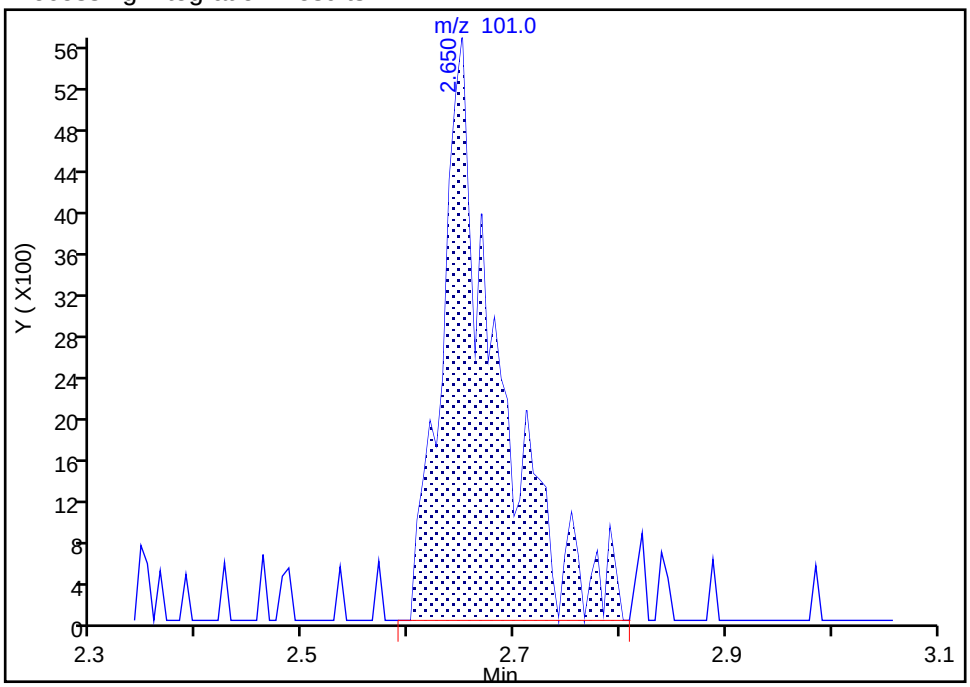
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

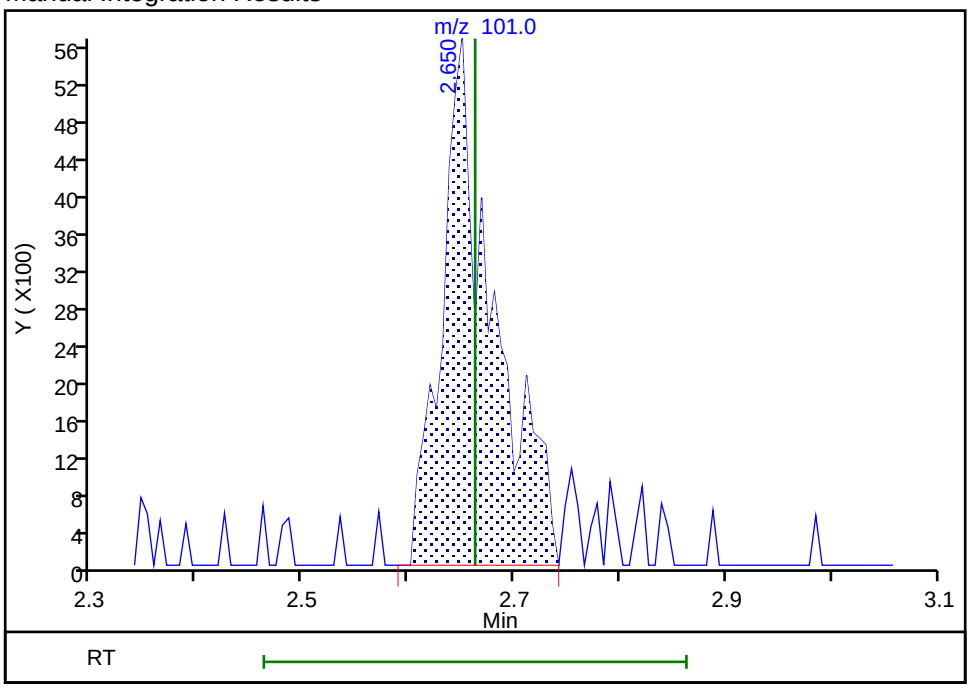
Processing Integration Results

RT: 2.65
Area: 20836
Amount: 2.311351
Amount Units: ug/L



Manual Integration Results

RT: 2.65
Area: 19112
Amount: 1.938752
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:33:10
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

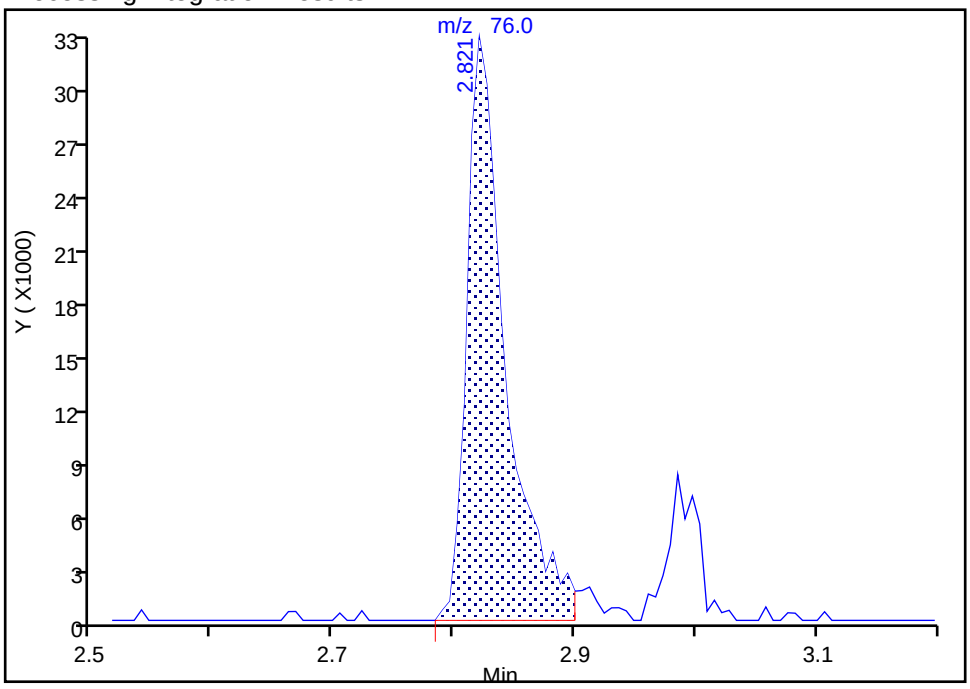
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

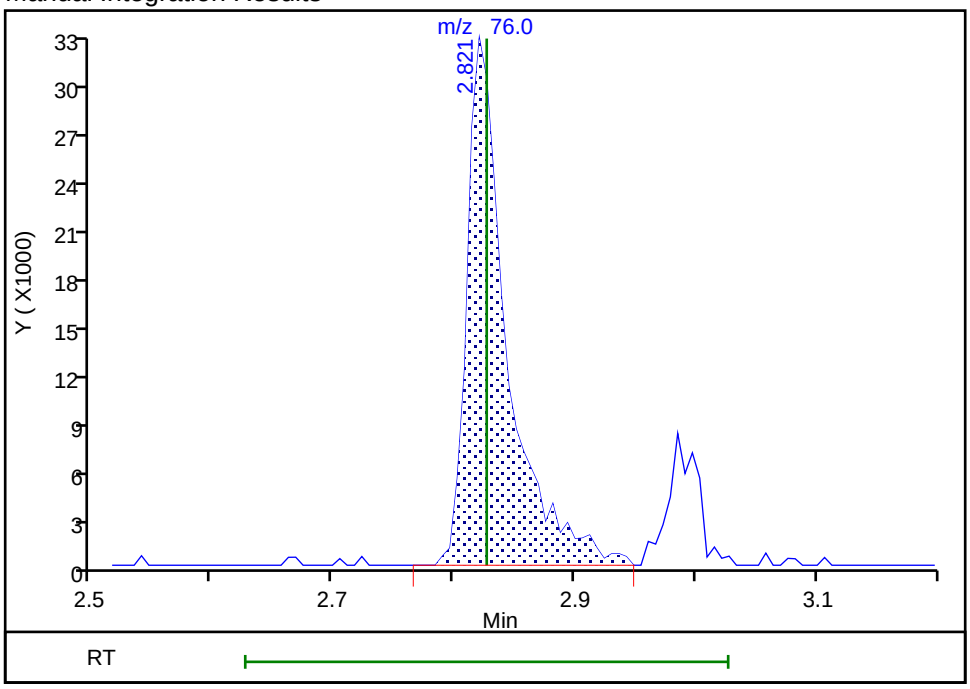
Processing Integration Results

RT: 2.82
Area: 72913
Amount: 2.204288
Amount Units: ug/L



Manual Integration Results

RT: 2.82
Area: 75445
Amount: 2.254013
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:33:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

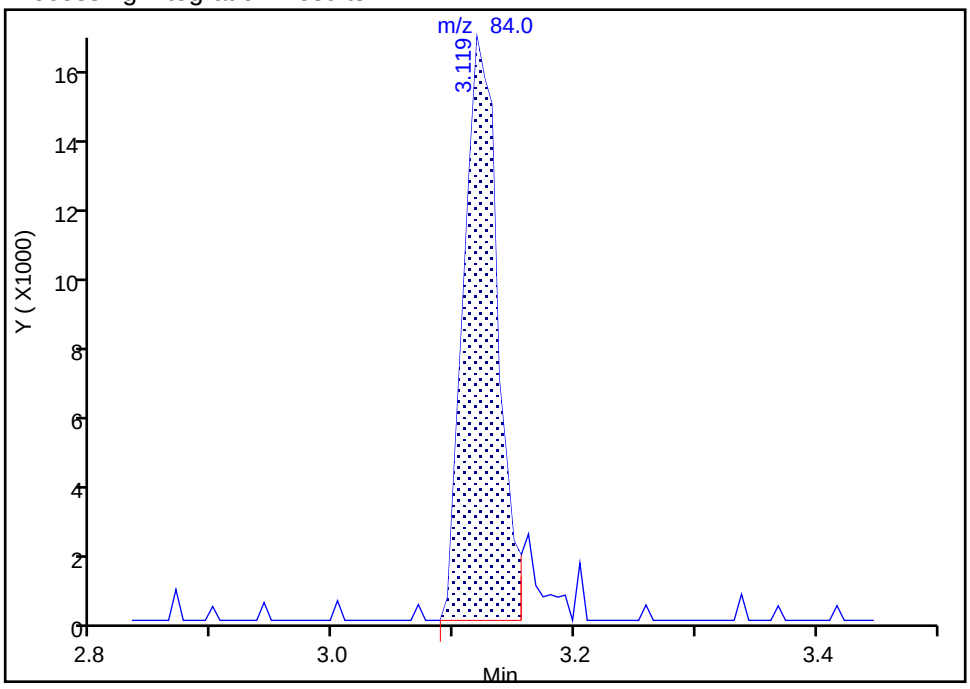
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

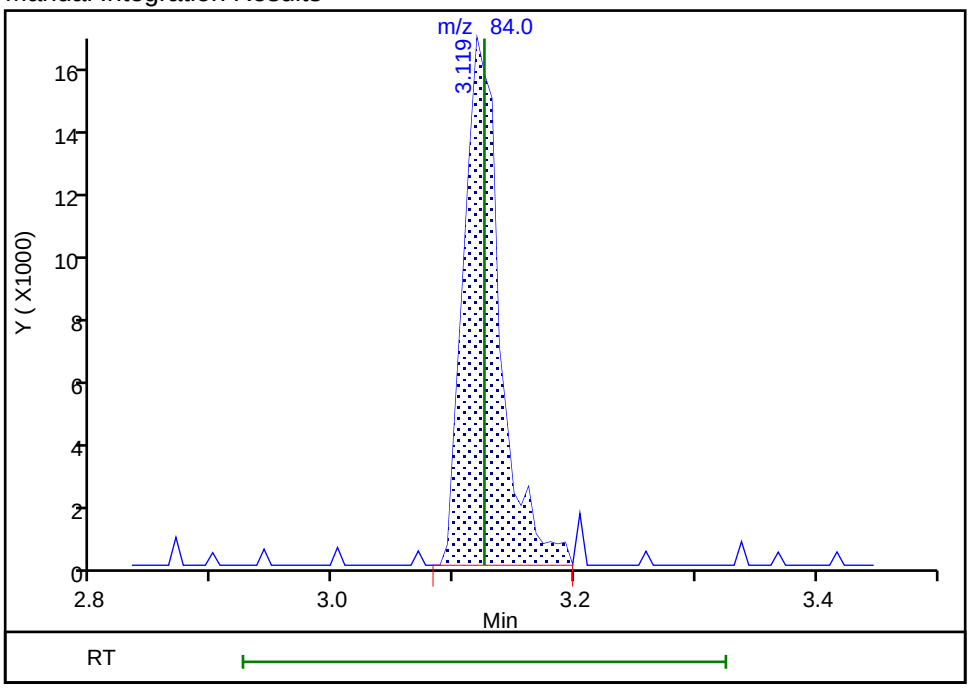
Processing Integration Results

RT: 3.12
Area: 33532
Amount: 1.691801
Amount Units: ug/L



Manual Integration Results

RT: 3.12
Area: 35863
Amount: 1.943639
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:33:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

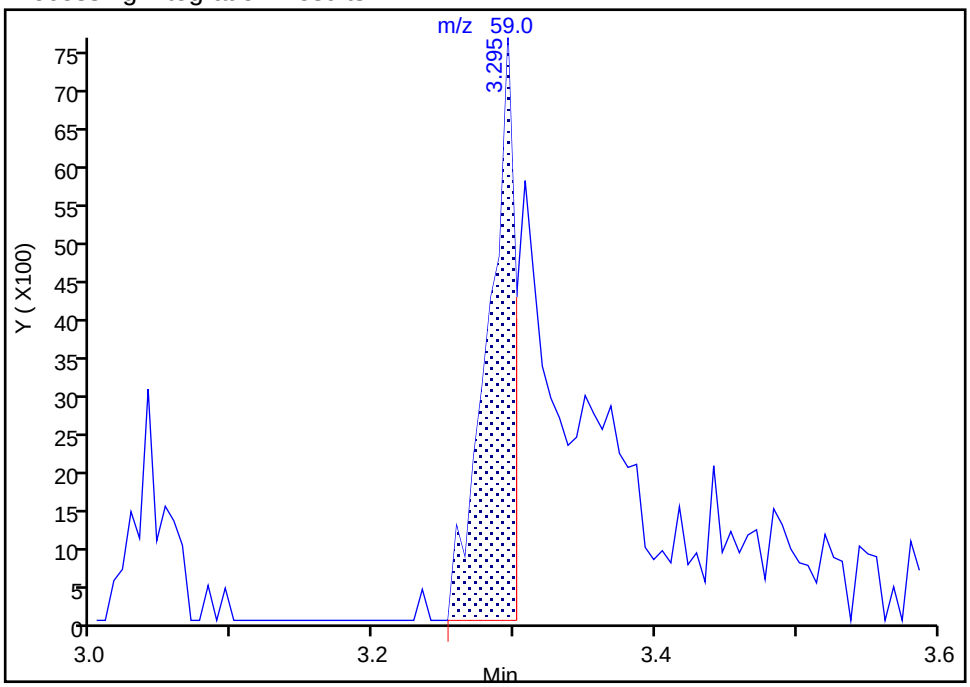
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

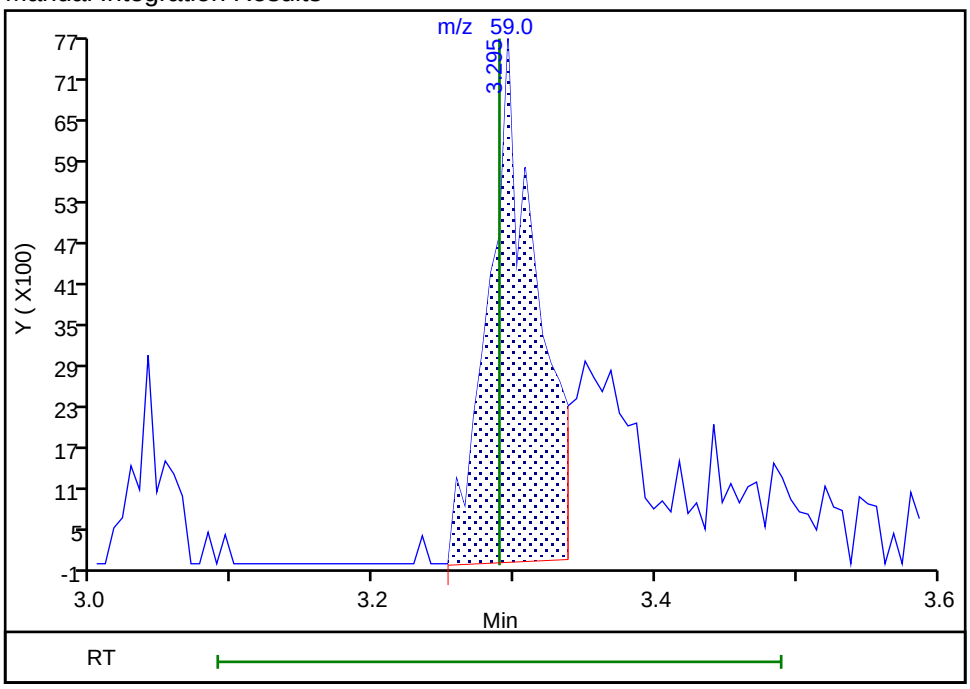
Processing Integration Results

RT: 3.30
Area: 10352
Amount: 12.081135
Amount Units: ug/L



Manual Integration Results

RT: 3.30
Area: 18137
Amount: 18.346029
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:34:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

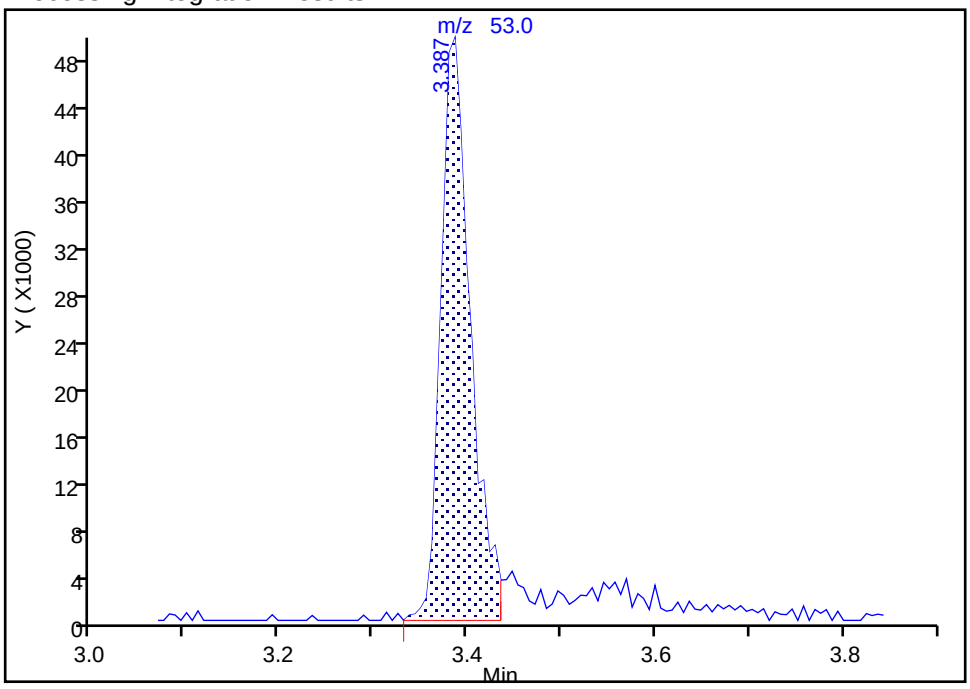
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

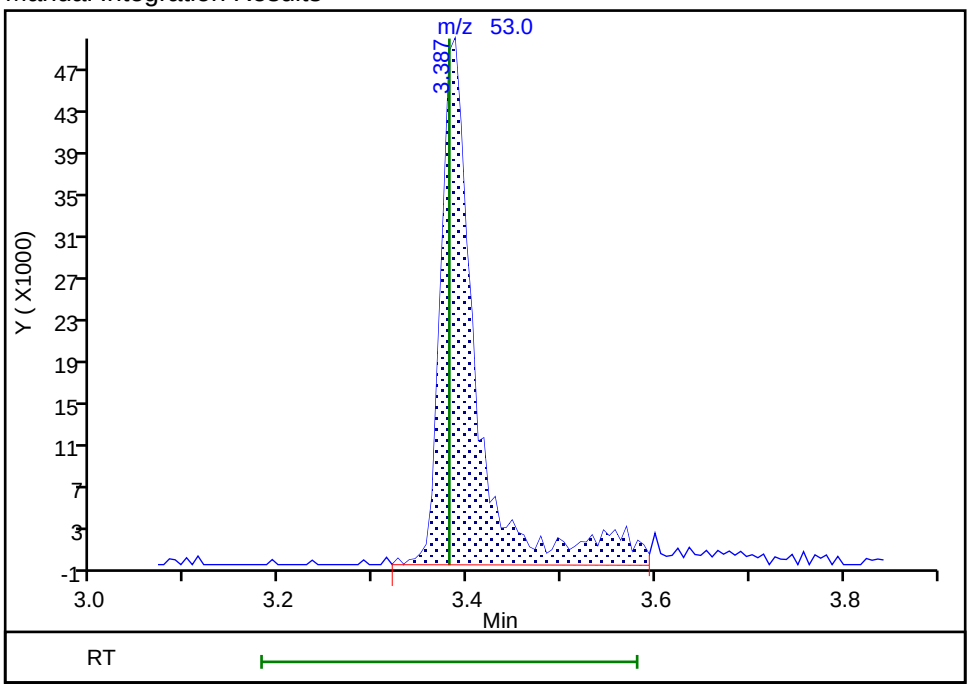
Processing Integration Results

RT: 3.39
Area: 108772
Amount: 17.021051
Amount Units: ug/L



Manual Integration Results

RT: 3.39
Area: 131174
Amount: 19.497878
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:35:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

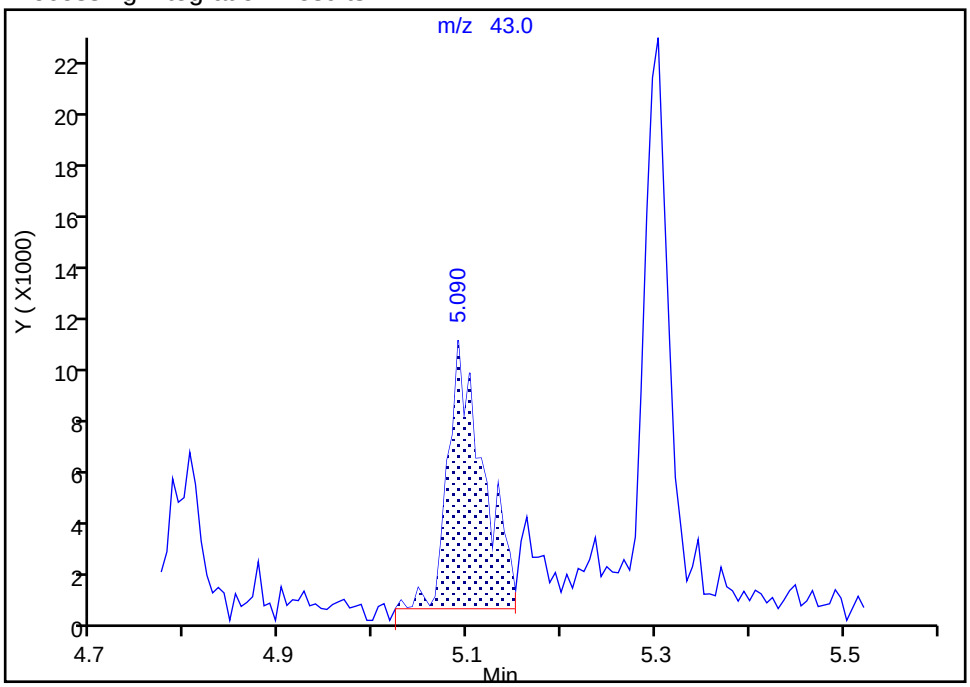
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

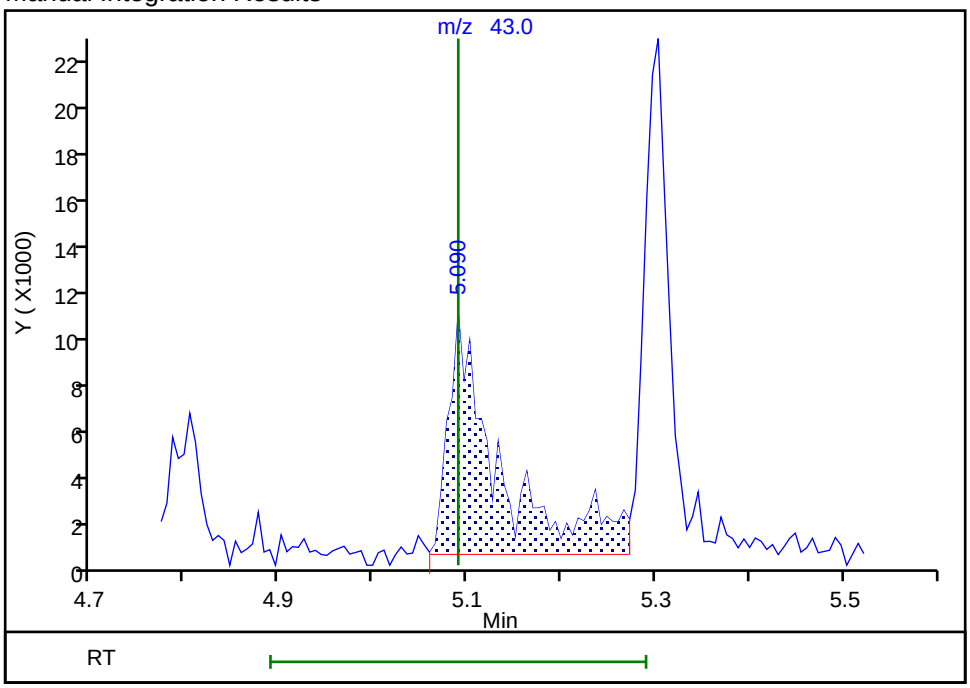
Processing Integration Results

RT: 5.09
Area: 27105
Amount: 72.288375
Amount Units: ug/L



Manual Integration Results

RT: 5.09
Area: 38851
Amount: 46.962384
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:35:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

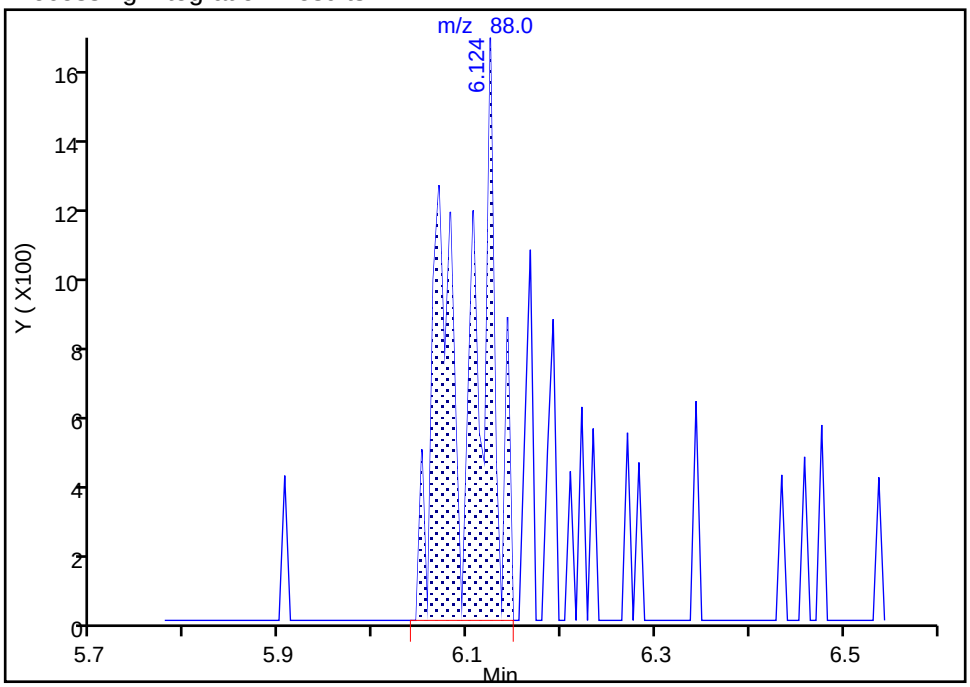
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0611.D
Injection Date: 15-Jun-2018 14:46:30 Instrument ID: HP5973N
Lims ID: IC 2
Client ID:
Operator ID: LH ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

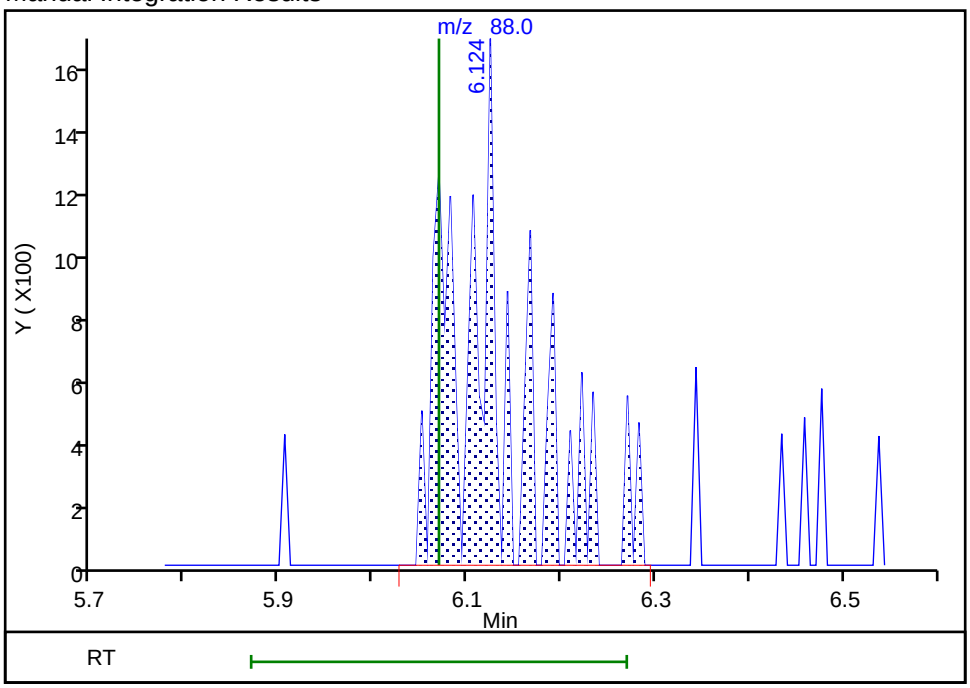
Processing Integration Results

RT: 6.12
Area: 3917
Amount: 37.353261
Amount Units: ug/L



Manual Integration Results

RT: 6.12
Area: 5905
Amount: 37.665298
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:36:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 15-Jun-2018 15:13:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0072372-010
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:18 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: milligana Date: 15-Jun-2018 20:40:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.357	5.357	0.000	98	205600	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.338	0.000	88	752169	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.741	0.000	95	395786	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.761	0.000	95	293581	25.0	25.0	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.065	5.065	0.000	0	368947	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1033952	25.0	26.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	320763	25.0	25.9	
11 Dichlorodifluoromethane	85	1.306	1.306	0.000	98	68855	5.00	5.58	
13 Chloromethane	50	1.464	1.464	0.000	97	83566	5.00	4.90	
14 Vinyl chloride	62	1.543	1.543	0.000	97	70203	5.00	4.91	
144 Butadiene	54	1.586	1.586	0.000	92	75318	5.00	5.16	
15 Bromomethane	94	1.847	1.847	0.000	92	41794	5.00	5.31	
16 Chloroethane	64	1.945	1.945	0.000	93	37891	5.00	5.25	M
17 Dichlorofluoromethane	67	2.145	2.145	0.000	92	91573	5.00	5.15	
18 Trichlorofluoromethane	101	2.145	2.145	0.000	80	85312	5.00	5.24	
19 Ethyl ether	59	2.431	2.431	0.000	97	64186	5.00	4.95	
20 Acrolein	56	2.589	2.589	0.000	97	57416	25.0	25.1	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	98	62751	5.00	5.86	
21 1,1,2-Trichloro-1,2,2-trif	101	2.656	2.656	0.000	92	53966	5.00	5.55	
23 Acetone	43	2.741	2.741	0.000	99	105224	25.0	25.5	
24 Iodomethane	142	2.778	2.778	0.000	97	109983	5.00	5.59	
25 Carbon disulfide	76	2.821	2.821	0.000	99	178823	5.00	5.41	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	85	119560	5.00	5.13	
28 Methyl acetate	43	3.040	3.040	0.000	99	144563	10.0	10.1	
30 Methylene Chloride	84	3.125	3.125	0.000	96	77869	5.00	5.31	
31 2-Methyl-2-propanol	59	3.283	3.283	0.000	96	45314	50.0	46.4	M
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	99	207713	5.00	5.22	
33 trans-1,2-Dichloroethene	96	3.356	3.356	0.000	81	67022	5.00	5.30	
34 Acrylonitrile	53	3.386	3.386	0.000	98	323306	50.0	48.7	
35 Hexane	57	3.575	3.575	0.000	92	106360	5.00	5.37	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	97	125094	5.00	5.27	
39 Vinyl acetate	43	3.818	3.818	0.000	98	287039	10.0	10.9	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	88	90686	5.00	5.62	
43 cis-1,2-Dichloroethene	96	4.311	4.311	0.000	85	73196	5.00	5.28	
44 2-Butanone (MEK)	43	4.341	4.341	0.000	98	190756	25.0	25.2	
47 Chlorobromomethane	128	4.530	4.530	0.000	96	37331	5.00	5.24	
49 Tetrahydrofuran	42	4.579	4.579	0.000	90	60859	10.0	10.4	
50 Chloroform	83	4.615	4.615	0.000	96	112648	5.00	5.12	
51 1,1,1-Trichloroethane	97	4.743	4.743	0.000	97	96715	5.00	5.27	
52 Cyclohexane	56	4.761	4.761	0.000	51	106915	5.00	4.86	
53 Carbon tetrachloride	117	4.883	4.883	0.000	96	85685	5.00	5.50	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	89	92236	5.00	5.74	
55 Benzene	78	5.090	5.090	0.000	97	246072	5.00	5.25	
56 Isobutyl alcohol	43	5.090	5.090	0.000	43	109948	125.0	134.7	M
57 1,2-Dichloroethane	62	5.138	5.138	0.000	95	106848	5.00	5.07	
59 n-Heptane	43	5.297	5.297	0.000	95	109109	5.00	5.44	
60 Trichloroethene	95	5.704	5.704	0.000	92	69454	5.00	5.45	
62 Methylcyclohexane	83	5.838	5.838	0.000	95	115998	5.00	5.75	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	85	65257	5.00	5.12	
64 Dibromomethane	93	6.057	6.057	0.000	93	42522	5.00	5.03	
66 1,4-Dioxane	88	6.081	6.081	0.000	91	17856	100.0	117.5	M
67 Dichlorobromomethane	83	6.215	6.215	0.000	96	83905	5.00	5.34	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	94	44321	5.00	5.10	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	88	93581	5.00	5.18	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	161574	25.0	26.9	
73 Toluene	92	6.933	6.933	0.000	96	156393	5.00	5.40	
75 trans-1,3-Dichloropropene	75	7.195	7.195	0.000	94	78105	5.00	5.03	
77 Ethyl methacrylate	69	7.262	7.262	0.000	92	71542	5.00	5.01	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	92	45850	5.00	5.58	
79 Tetrachloroethene	166	7.468	7.468	0.000	94	67902	5.00	5.34	
80 1,3-Dichloropropane	76	7.541	7.541	0.000	95	93981	5.00	5.31	
82 2-Hexanone	43	7.614	7.614	0.000	98	290884	25.0	26.2	
83 Chlorodibromomethane	129	7.779	7.779	0.000	90	59905	5.00	5.15	
84 Ethylene Dibromide	107	7.882	7.882	0.000	95	57623	5.00	5.33	
85 Chlorobenzene	112	8.369	8.369	0.000	94	169749	5.00	5.15	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.466	0.000	88	58558	5.00	4.89	
88 Ethylbenzene	91	8.472	8.472	0.000	98	291205	5.00	5.44	
90 m-Xylene & p-Xylene	106	8.588	8.588	0.000	0	108808	5.00	5.34	
91 o-Xylene	106	9.020	9.020	0.000	98	109200	5.00	5.15	
92 Styrene	104	9.044	9.044	0.000	95	185906	5.00	5.44	
93 Bromoform	173	9.275	9.275	0.000	93	36405	5.00	4.85	
95 Isopropylbenzene	105	9.409	9.409	0.000	96	296277	5.00	5.22	
97 Bromobenzene	156	9.744	9.744	0.000	94	72294	5.00	4.91	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.786	0.000	96	76062	5.00	5.06	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	91	24484	5.00	4.86	
100 N-Propylbenzene	91	9.835	9.835	0.000	99	353011	5.00	5.46	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	62	26107	5.00	4.68	
102 2-Chlorotoluene	126	9.938	9.938	0.000	96	74905	5.00	5.57	
104 1,3,5-Trimethylbenzene	105	10.017	10.017	0.000	96	237765	5.00	5.20	
105 4-Chlorotoluene	91	10.048	10.048	0.000	97	233144	5.00	5.41	
106 tert-Butylbenzene	134	10.340	10.340	0.000	93	54794	5.00	4.98	
108 1,2,4-Trimethylbenzene	105	10.395	10.395	0.000	97	253728	5.00	5.31	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	308191	5.00	5.15	
110 1,3-Dichlorobenzene	146	10.681	10.681	0.000	97	142051	5.00	5.17	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	96	269325	5.00	5.22	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	96	145588	5.00	5.26	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	242506	5.00	5.28	
116 1,2-Dichlorobenzene	146	11.112	11.112	0.000	97	140141	5.00	5.26	
117 1,2-Dibromo-3-Chloropropan	75	11.843	11.843	0.000	76	15925	5.00	5.57	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	93254	5.00	5.24	
120 Hexachlorobutadiene	225	12.658	12.658	0.000	94	42048	5.00	5.07	
121 Naphthalene	128	12.737	12.737	0.000	97	266616	5.00	5.14	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	97	90886	5.00	5.56	
S 124 1,2-Dichloroethene, Total	1				0			10.6	
S 125 Total BTEX	1				0			26.6	
S 126 Xylenes, Total	1				0			10.5	
S 123 1,3-Dichloropropene, Total	1				0			10.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	5.00	Units: uL	
GAS CORP mix_00286	Amount Added:	5.00	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

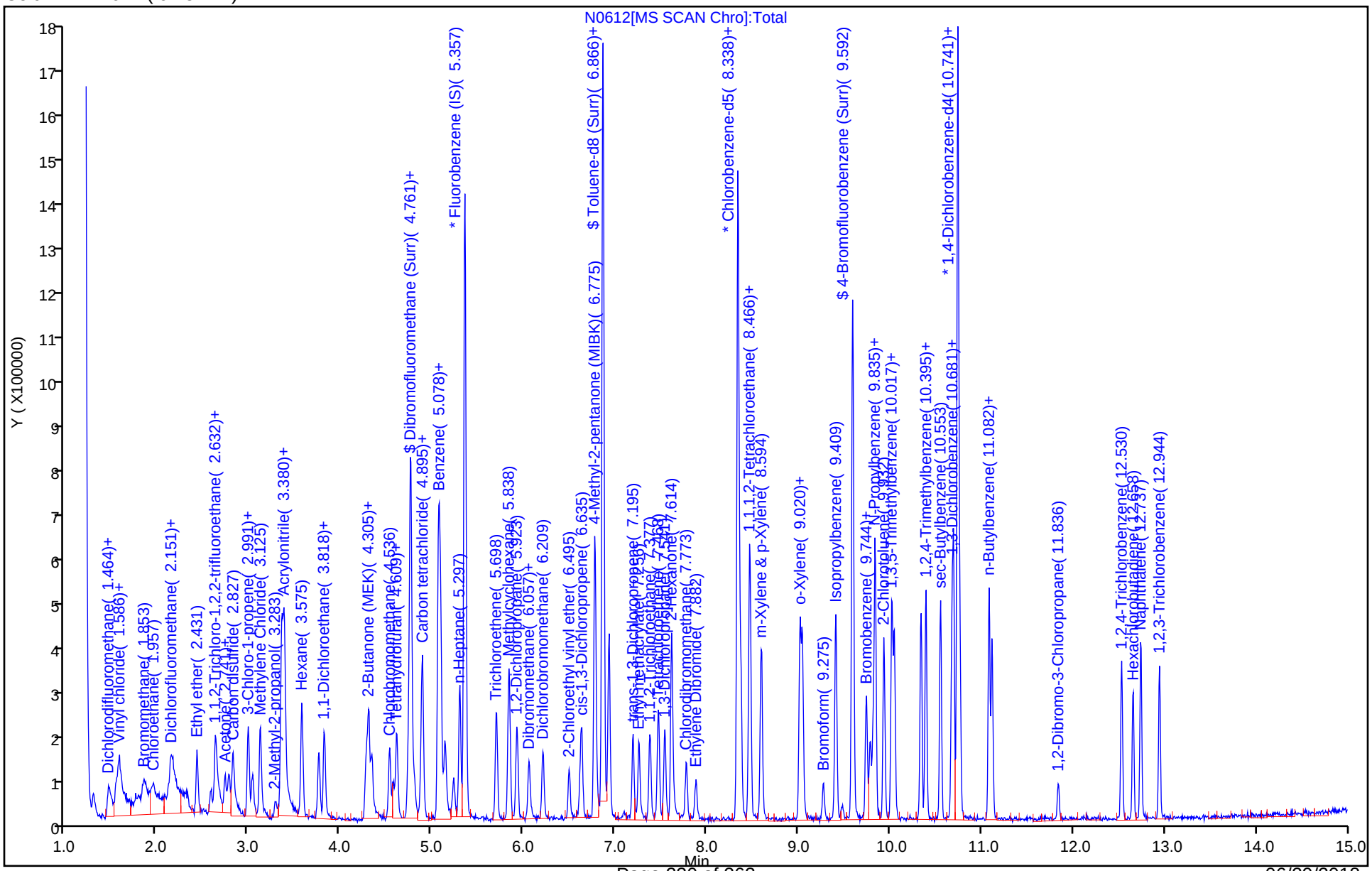
Report Date: 18-Jun-2018 12:44:20 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D

Injection Date:	15-Jun-2018 15:13:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 3			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

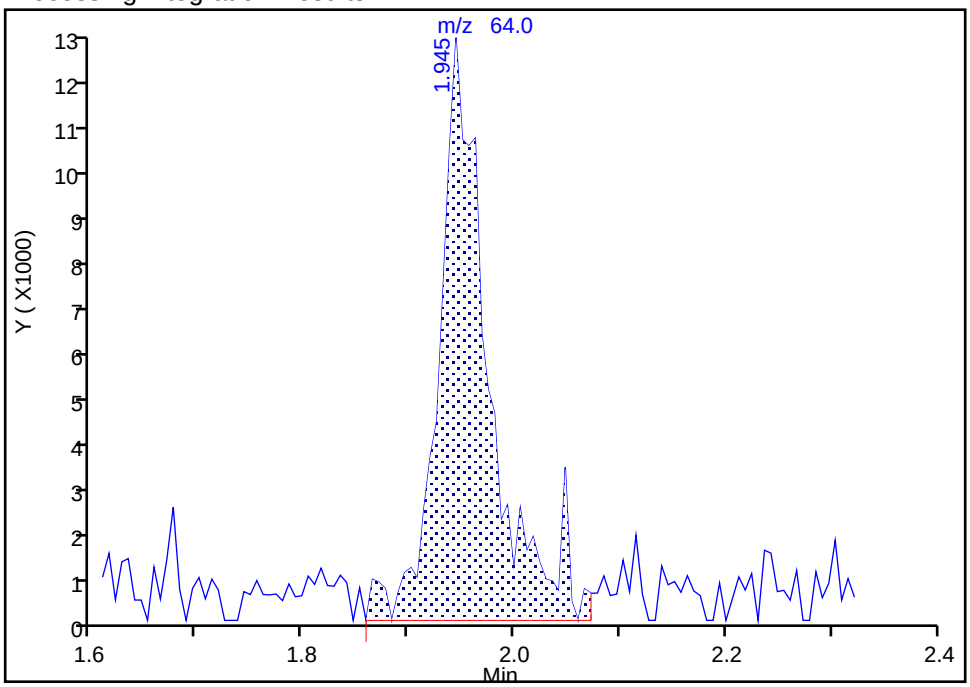
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D
Injection Date: 15-Jun-2018 15:13:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

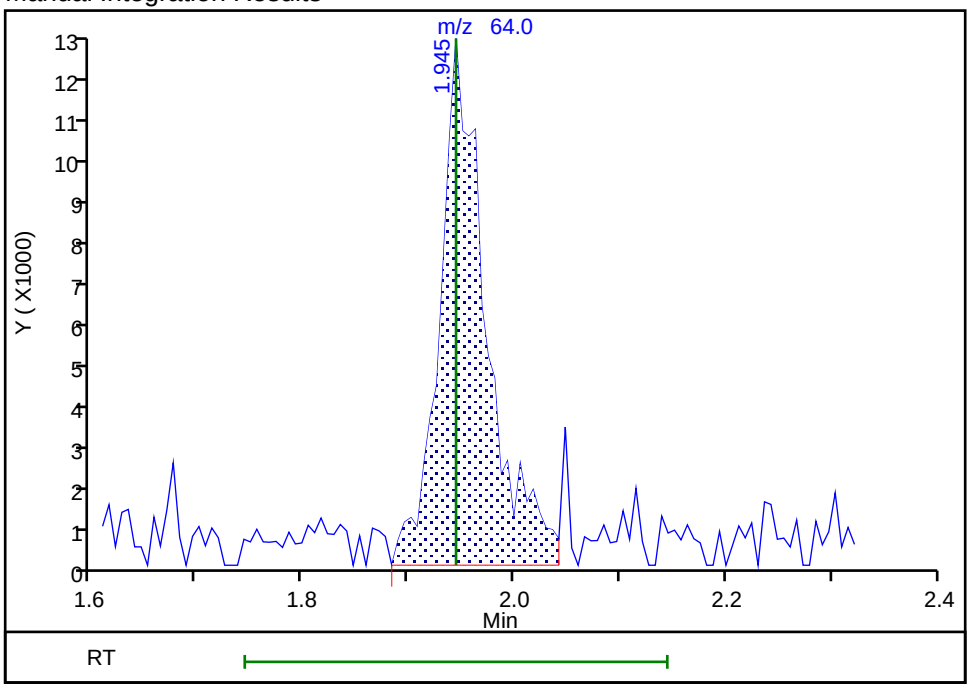
Processing Integration Results

RT: 1.94
Area: 40558
Amount: 5.501317
Amount Units: ug/L



Manual Integration Results

RT: 1.94
Area: 37891
Amount: 5.248853
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:37:48
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Buffalo

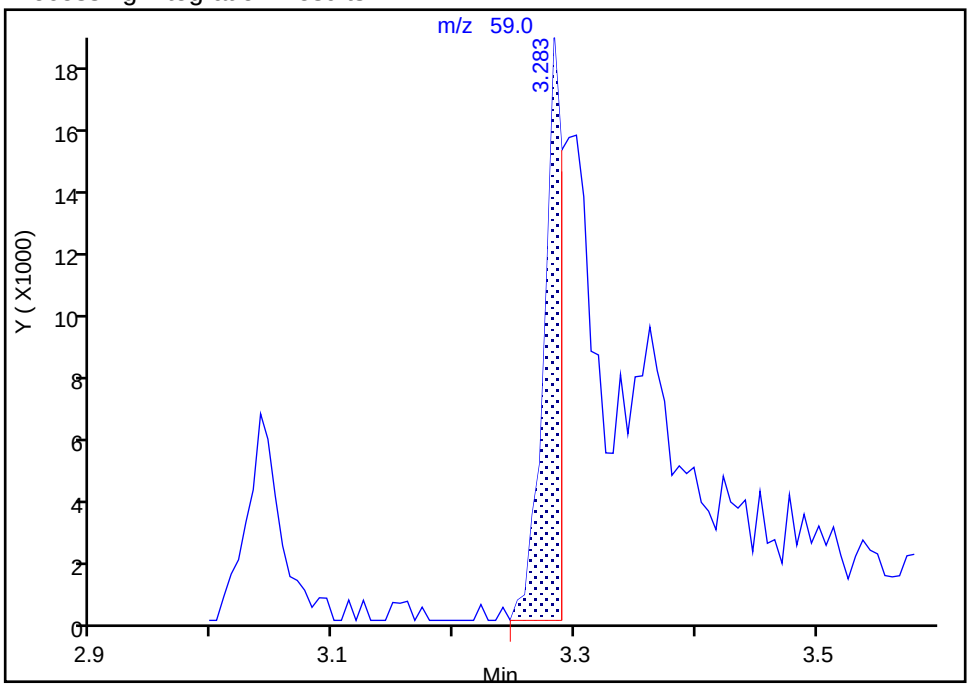
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D
Injection Date: 15-Jun-2018 15:13:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

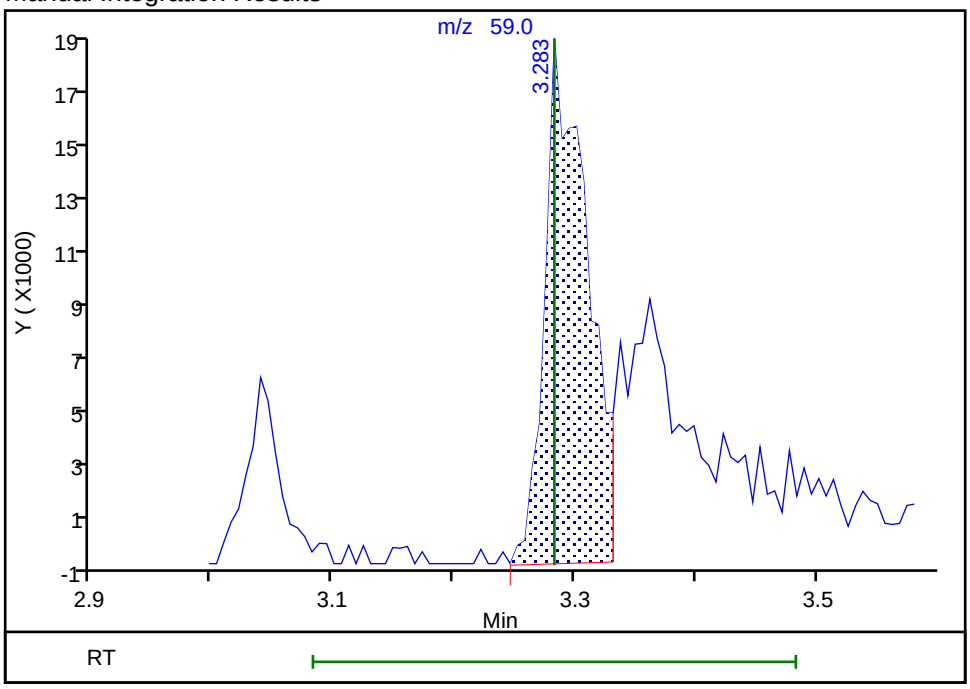
Processing Integration Results

RT: 3.28
Area: 19522
Amount: 21.676017
Amount Units: ug/L



Manual Integration Results

RT: 3.28
Area: 45314
Amount: 46.439517
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:38:27
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo

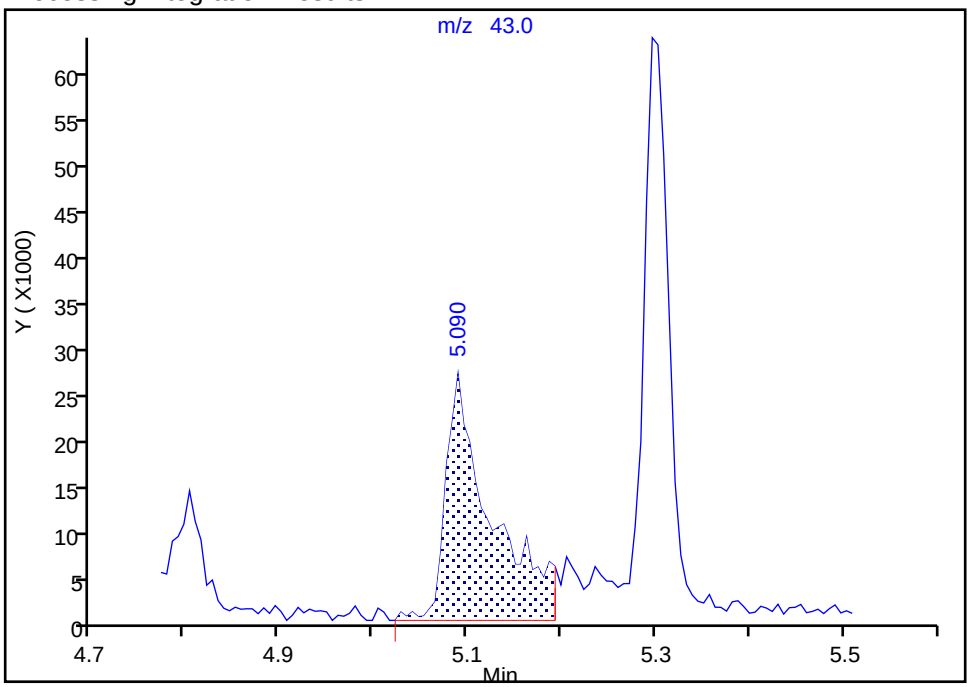
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D
Injection Date: 15-Jun-2018 15:13:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

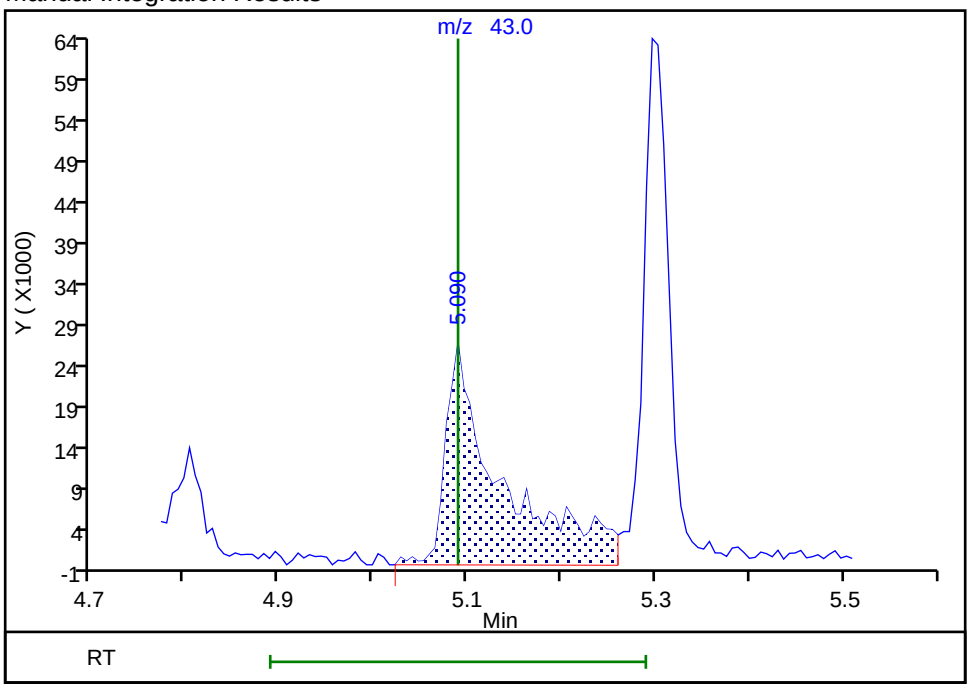
Processing Integration Results

RT: 5.09
Area: 90648
Amount: 114.5396
Amount Units: ug/L



Manual Integration Results

RT: 5.09
Area: 109948
Amount: 134.6524
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:39:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

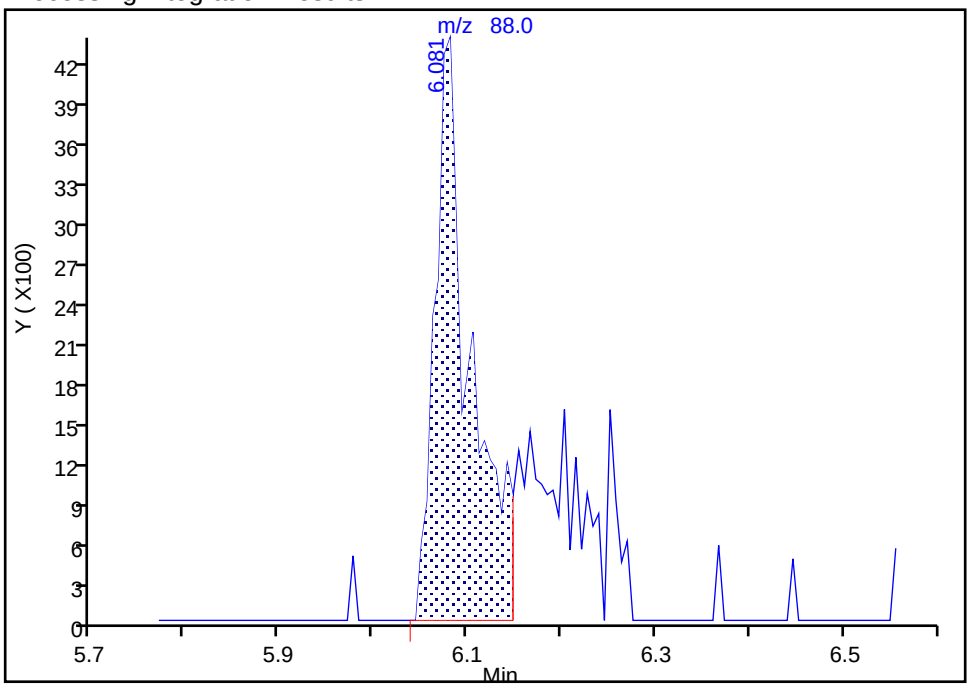
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0612.D
Injection Date: 15-Jun-2018 15:13:30 Instrument ID: HP5973N
Lims ID: IC 3
Client ID:
Operator ID: LH ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

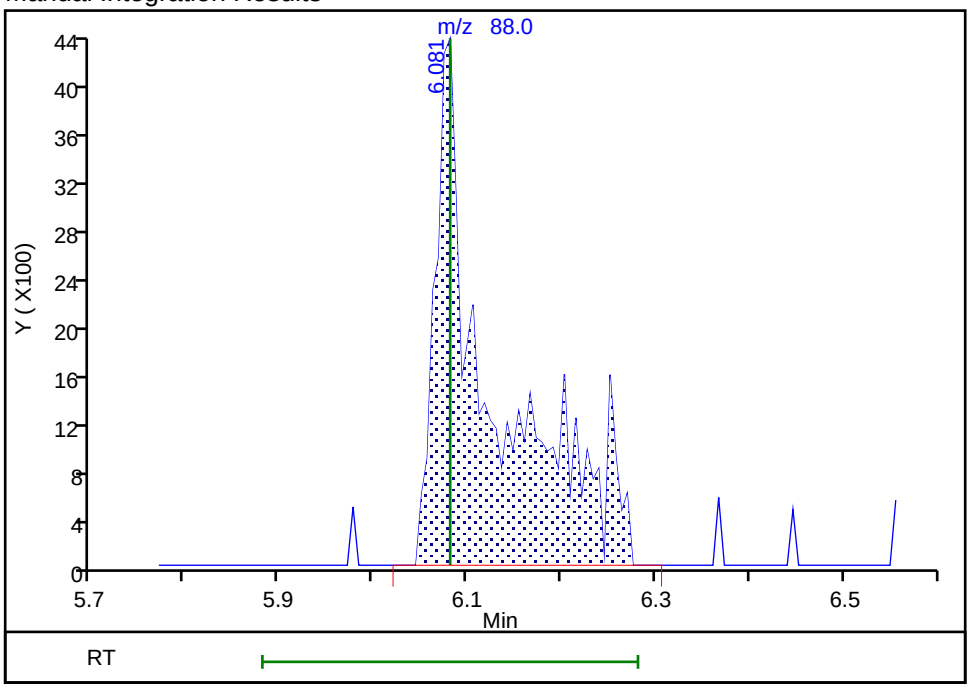
Processing Integration Results

RT: 6.08
Area: 11266
Amount: 91.046885
Amount Units: ug/L



Manual Integration Results

RT: 6.08
Area: 17856
Amount: 117.5023
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:39:35
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0613.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 15-Jun-2018 15:40:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0072372-011
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:22 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: milligana Date: 15-Jun-2018 20:43:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.357	5.357	0.000	99	210479	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.338	0.000	88	811834	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.741	0.000	95	415872	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.761	0.000	92	307152	25.0	25.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.072	5.065	0.007	0	377733	25.0	25.2	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1091397	25.0	25.5	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	93	344241	25.0	25.8	
11 Dichlorodifluoromethane	85	1.300	1.306	-0.006	98	110099	10.0	8.71	
13 Chloromethane	50	1.464	1.464	0.000	99	171322	10.0	9.81	
14 Vinyl chloride	62	1.549	1.543	0.006	98	130563	10.0	8.91	
144 Butadiene	54	1.574	1.586	-0.012	96	130125	10.0	8.70	
15 Bromomethane	94	1.859	1.847	0.012	95	76892	10.0	9.54	
16 Chloroethane	64	1.945	1.945	0.000	95	70907	10.0	9.59	
17 Dichlorofluoromethane	67	2.151	2.145	0.006	91	169715	10.0	9.32	
18 Trichlorofluoromethane	101	2.139	2.145	-0.006	77	167163	10.0	10.0	
19 Ethyl ether	59	2.431	2.431	0.000	96	133906	10.0	10.1	
20 Acrolein	56	2.583	2.589	-0.006	98	108763	50.0	46.4	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	95	116216	10.0	10.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.650	2.656	-0.006	38	114473	10.0	11.5	M
23 Acetone	43	2.735	2.741	-0.006	99	179950	50.0	42.6	
24 Iodomethane	142	2.778	2.778	0.000	99	218174	10.0	10.8	
25 Carbon disulfide	76	2.821	2.821	0.000	98	388626	10.0	11.5	M
27 3-Chloro-1-propene	41	2.985	2.991	-0.006	86	254490	10.0	10.7	
28 Methyl acetate	43	3.034	3.040	-0.006	99	281694	20.0	19.2	
30 Methylene Chloride	84	3.125	3.125	0.000	98	144396	10.0	10.3	
31 2-Methyl-2-propanol	59	3.289	3.283	0.006	97	93203	100.0	93.3	
33 trans-1,2-Dichloroethene	96	3.362	3.356	0.006	82	129889	10.0	10.0	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	99	431095	10.0	10.6	
34 Acrylonitrile	53	3.380	3.386	-0.006	97	769339	100.0	113.2	M
35 Hexane	57	3.575	3.575	0.000	96	225103	10.0	11.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.758	3.764	-0.006	96	263304	10.0	10.8	
39 Vinyl acetate	43	3.818	3.818	0.000	98	571819	20.0	21.2	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	87	166572	10.0	10.1	
43 cis-1,2-Dichloroethene	96	4.305	4.311	-0.006	86	154543	10.0	10.9	
44 2-Butanone (MEK)	43	4.335	4.341	-0.006	98	390353	50.0	50.5	
47 Chlorobromomethane	128	4.536	4.530	0.006	94	75577	10.0	10.4	
49 Tetrahydrofuran	42	4.573	4.579	-0.006	89	109305	20.0	18.3	
50 Chloroform	83	4.615	4.615	0.000	96	243709	10.0	10.8	
51 1,1,1-Trichloroethane	97	4.743	4.743	0.000	98	200819	10.0	10.7	
52 Cyclohexane	56	4.761	4.761	0.000	70	247681	10.0	11.0	
53 Carbon tetrachloride	117	4.889	4.883	0.006	96	175156	10.0	11.0	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	88	182874	10.0	11.1	
56 Isobutyl alcohol	43	5.090	5.090	0.000	46	198597	250.0	237.6	
55 Benzene	78	5.090	5.090	0.000	98	514157	10.0	10.7	
57 1,2-Dichloroethane	62	5.138	5.138	0.000	97	220037	10.0	10.2	
59 n-Heptane	43	5.303	5.297	0.006	96	247221	10.0	12.0	
60 Trichloroethene	95	5.698	5.704	-0.006	94	141091	10.0	10.8	
62 Methylcyclohexane	83	5.844	5.838	0.006	95	244516	10.0	11.8	
63 1,2-Dichloropropane	63	5.929	5.923	0.006	89	141024	10.0	10.8	
64 Dibromomethane	93	6.057	6.057	0.000	95	91957	10.0	10.6	
66 1,4-Dioxane	88	6.075	6.081	-0.006	94	37835	200.0	230.7	
67 Dichlorobromomethane	83	6.209	6.215	-0.006	96	182374	10.0	11.3	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	93	91725	10.0	10.3	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	89	202859	10.0	11.0	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	100	335697	50.0	51.7	
73 Toluene	92	6.927	6.933	-0.006	98	341768	10.0	10.9	
75 trans-1,3-Dichloropropene	75	7.195	7.195	0.000	98	177851	10.0	10.6	
77 Ethyl methacrylate	69	7.256	7.262	-0.006	93	158313	10.0	10.3	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	91	94707	10.0	10.7	
79 Tetrachloroethene	166	7.468	7.468	0.000	96	145901	10.0	10.6	
80 1,3-Dichloropropane	76	7.541	7.541	0.000	96	203774	10.0	10.7	
82 2-Hexanone	43	7.614	7.614	0.000	98	651642	50.0	54.5	
83 Chlorodibromomethane	129	7.773	7.779	-0.006	90	130600	10.0	10.4	
84 Ethylene Dibromide	107	7.882	7.882	0.000	98	129055	10.0	11.1	
85 Chlorobenzene	112	8.369	8.369	0.000	96	380244	10.0	10.7	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.466	0.000	89	135940	10.0	10.5	
88 Ethylbenzene	91	8.472	8.472	0.000	99	634760	10.0	11.0	
90 m-Xylene & p-Xylene	106	8.594	8.588	0.006	0	228330	10.0	10.4	
91 o-Xylene	106	9.014	9.020	-0.006	98	236716	10.0	10.3	
92 Styrene	104	9.044	9.044	0.000	96	405355	10.0	11.0	
93 Bromoform	173	9.275	9.275	0.000	93	80703	10.0	9.96	
95 Isopropylbenzene	105	9.409	9.409	0.000	96	636585	10.0	10.7	
97 Bromobenzene	156	9.744	9.744	0.000	93	162827	10.0	10.5	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.786	0.000	95	161270	10.0	10.2	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	93	56499	10.0	10.7	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	74	56922	10.0	9.70	
100 N-Propylbenzene	91	9.841	9.835	0.006	99	731916	10.0	10.8	
102 2-Chlorotoluene	126	9.932	9.938	-0.006	96	159001	10.0	11.3	
104 1,3,5-Trimethylbenzene	105	10.018	10.017	0.001	96	513699	10.0	10.7	
105 4-Chlorotoluene	91	10.048	10.048	0.000	97	476739	10.0	10.5	
106 tert-Butylbenzene	134	10.340	10.340	0.000	94	121026	10.0	10.5	
108 1,2,4-Trimethylbenzene	105	10.389	10.395	-0.006	98	529692	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	678321	10.0	10.8	
110 1,3-Dichlorobenzene	146	10.675	10.681	-0.006	98	299942	10.0	10.4	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	602899	10.0	11.1	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	95	308891	10.0	10.6	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	531221	10.0	11.0	
116 1,2-Dichlorobenzene	146	11.113	11.112	0.001	97	295098	10.0	10.6	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.843	-0.007	79	32432	10.0	10.8	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	93	203547	10.0	10.9	
120 Hexachlorobutadiene	225	12.658	12.658	0.000	95	97265	10.0	11.2	
121 Naphthalene	128	12.737	12.737	0.000	98	579219	10.0	10.6	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	93	180967	10.0	10.5	
S 126 Xylenes, Total	1				0			20.7	
S 123 1,3-Dichloropropene, Total	1				0			21.6	
S 124 1,2-Dichloroethene, Total	1				0			20.9	
S 125 Total BTEX	1				0			53.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	5.00	Units: uL	
GAS CORP mix_00286	Amount Added:	5.00	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

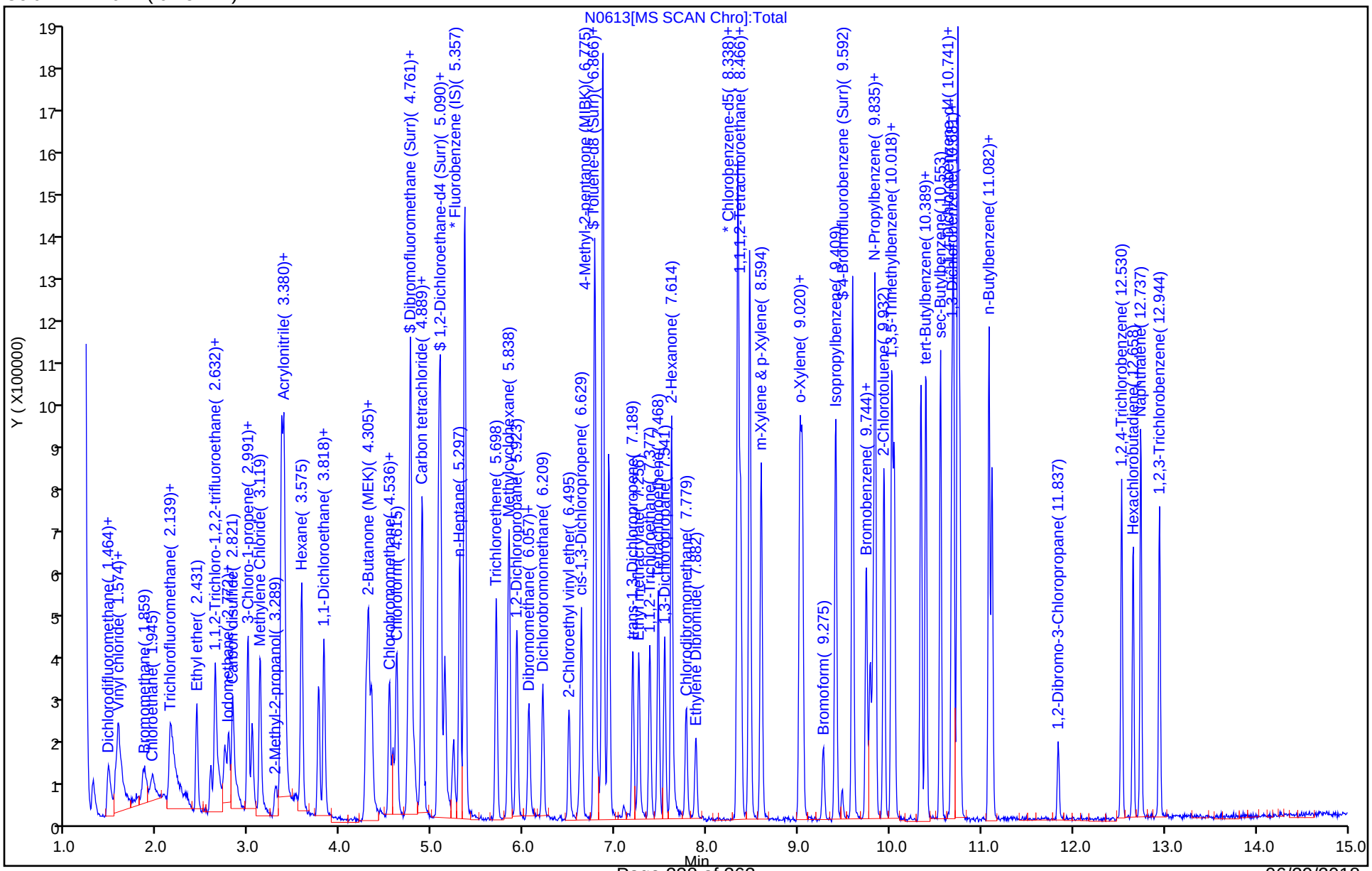
Report Date: 18-Jun-2018 12:44:24 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0613.D

Injection Date:	15-Jun-2018 15:40:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 4			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

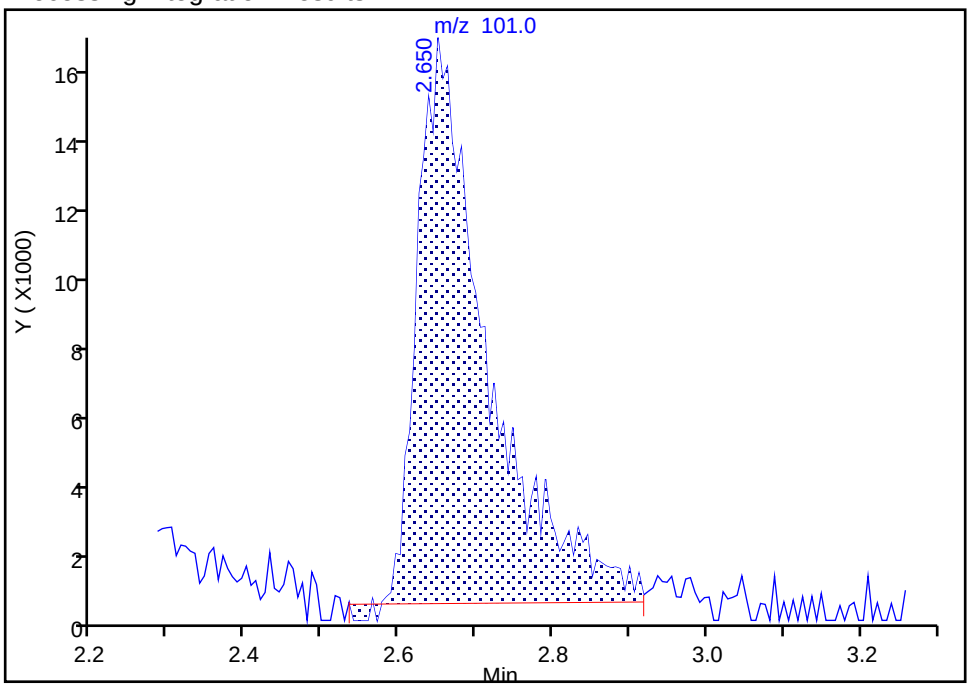
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0613.D
Injection Date: 15-Jun-2018 15:40:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

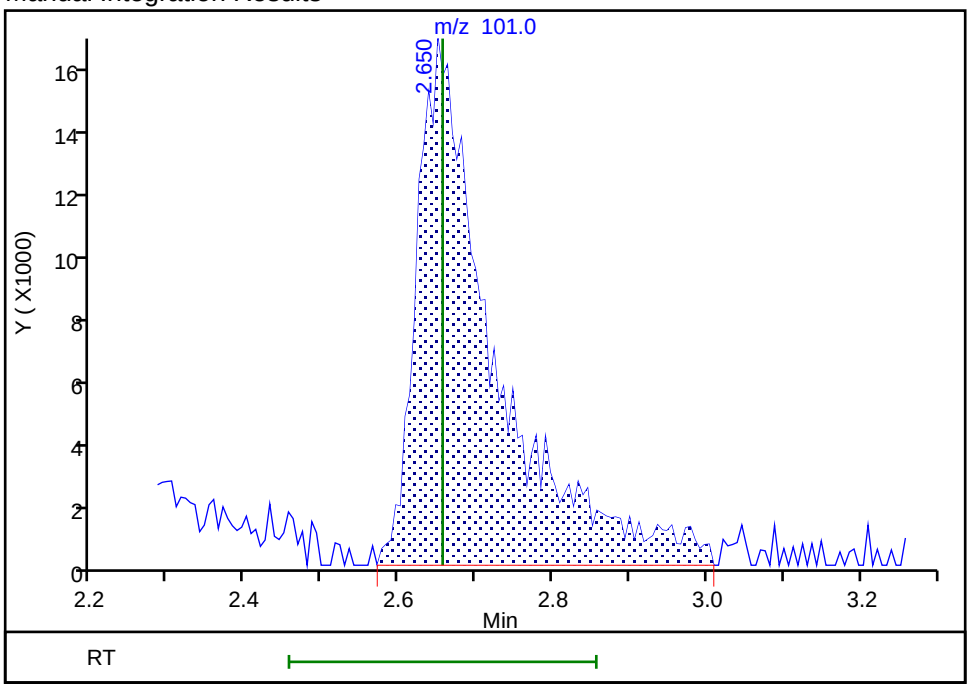
Processing Integration Results

RT: 2.65
Area: 99010
Amount: 9.761170
Amount Units: ug/L



Manual Integration Results

RT: 2.65
Area: 114473
Amount: 11.492438
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:41:20
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

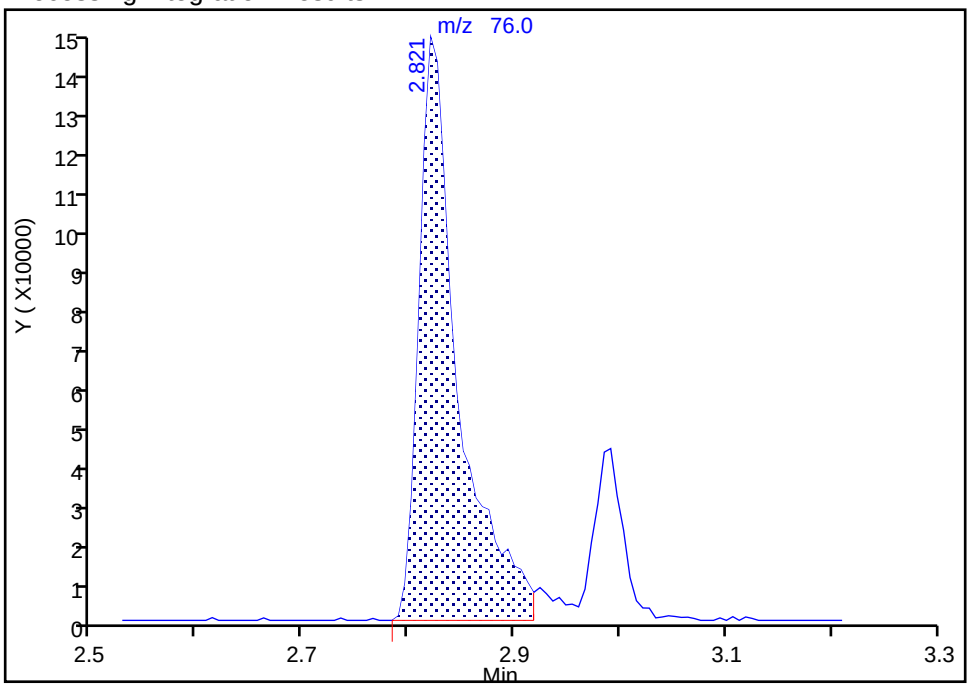
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0613.D
Injection Date: 15-Jun-2018 15:40:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Signal: 1

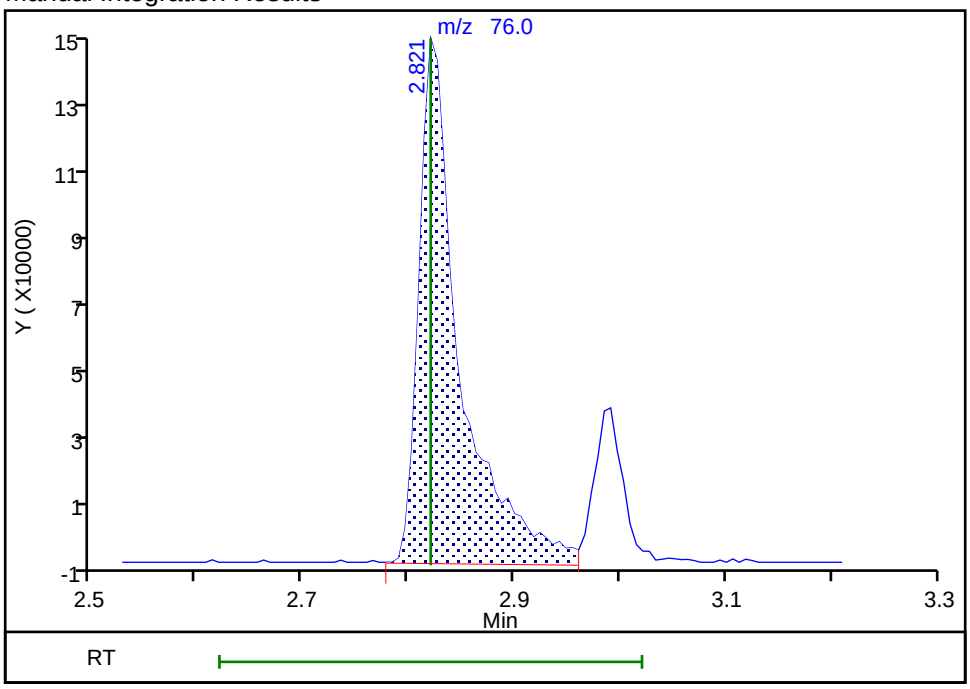
Processing Integration Results

RT: 2.82
Area: 369600
Amount: 11.005648
Amount Units: ug/L



Manual Integration Results

RT: 2.82
Area: 388626
Amount: 11.490814
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:42:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

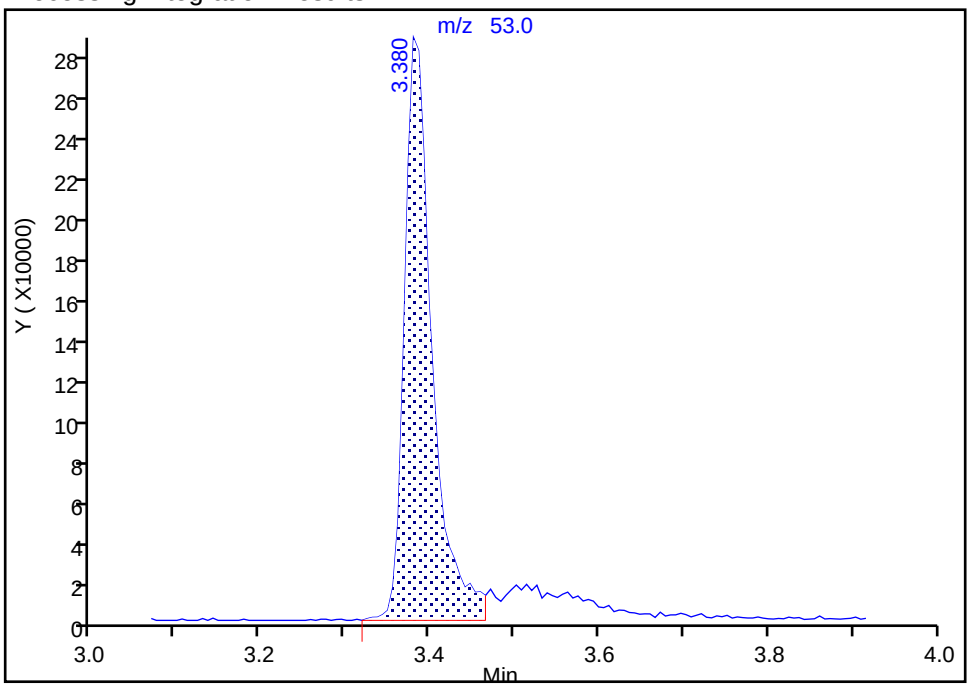
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0613.D
Injection Date: 15-Jun-2018 15:40:30 Instrument ID: HP5973N
Lims ID: IC 4
Client ID:
Operator ID: LH ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

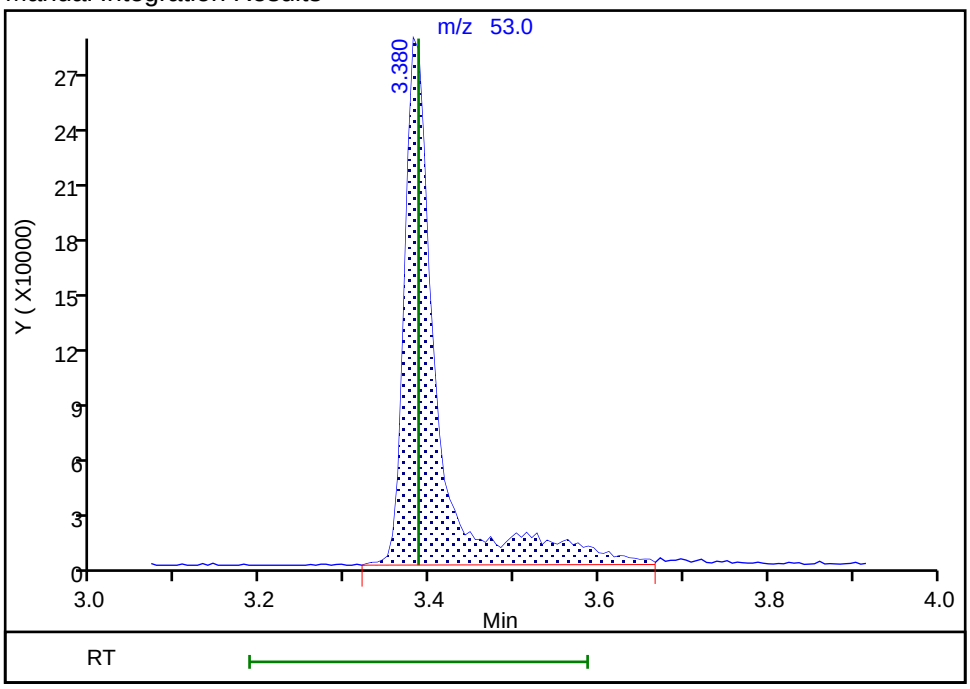
Processing Integration Results

RT: 3.38
Area: 654435
Amount: 99.178213
Amount Units: ug/L



Manual Integration Results

RT: 3.38
Area: 769339
Amount: 113.1750
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:42:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0614.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 15-Jun-2018 16:07:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0072372-012
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:26 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: HillL Date: 18-Jun-2018 12:26:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	92	209234	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	86	783991	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	67	399830	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.768	4.768	0.000	67	300779	25.0	25.2	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	365472	25.0	24.5	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	92	1030393	25.0	24.9	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	91	319872	25.0	24.8	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	86	319774	25.0	25.5	
13 Chloromethane	50	1.464	1.464	0.000	89	418638	25.0	24.1	
14 Vinyl chloride	62	1.549	1.549	0.000	78	337661	25.0	23.2	
144 Butadiene	54	1.574	1.574	0.000	92	332885	25.0	22.4	
15 Bromomethane	94	1.854	1.854	0.000	93	191300	25.0	23.9	
16 Chloroethane	64	1.951	1.951	0.000	89	177558	25.0	24.2	
18 Trichlorofluoromethane	101	2.152	2.152	0.000	60	411209	25.0	24.8	
17 Dichlorofluoromethane	67	2.146	2.146	0.000	78	448648	25.0	24.8	
19 Ethyl ether	59	2.431	2.431	0.000	97	326365	25.0	24.8	
20 Acrolein	56	2.584	2.584	0.000	89	291397	125.0	125.0	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	81	250826	25.0	23.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.663	2.663	0.000	78	238951	25.0	24.1	
23 Acetone	43	2.742	2.742	0.000	97	520431	125.0	124.0	
24 Iodomethane	142	2.778	2.778	0.000	99	512336	25.0	25.6	
25 Carbon disulfide	76	2.827	2.827	0.000	98	851468	25.0	25.3	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	83	588173	25.0	24.8	
28 Methyl acetate	43	3.034	3.034	0.000	96	757068	50.0	51.9	
30 Methylene Chloride	84	3.125	3.125	0.000	93	330401	25.0	24.9	
31 2-Methyl-2-propanol	59	3.289	3.289	0.000	95	248467	250.0	250.2	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	98	1038953	25.0	25.6	
33 trans-1,2-Dichloroethene	96	3.356	3.356	0.000	63	316095	25.0	24.6	
34 Acrylonitrile	53	3.380	3.380	0.000	98	1724190	250.0	255.1	
35 Hexane	57	3.575	3.575	0.000	92	467950	25.0	23.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	85	610341	25.0	25.2	
39 Vinyl acetate	43	3.819	3.819	0.000	98	1368862	50.0	51.0	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	90	389996	25.0	23.8	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	73	354967	25.0	25.2	
44 2-Butanone (MEK)	43	4.336	4.336	0.000	92	1059148	125.0	137.7	
47 Chlorobromomethane	128	4.536	4.536	0.000	93	188103	25.0	26.0	
49 Tetrahydrofuran	42	4.567	4.567	0.000	89	280599	50.0	47.2	
50 Chloroform	83	4.615	4.615	0.000	72	550860	25.0	24.6	
51 1,1,1-Trichloroethane	97	4.737	4.737	0.000	90	443261	25.0	23.7	
52 Cyclohexane	56	4.761	4.761	0.000	94	535534	25.0	23.9	
53 Carbon tetrachloride	117	4.889	4.889	0.000	71	382759	25.0	24.1	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	87	394792	25.0	24.1	
55 Benzene	78	5.090	5.090	0.000	97	1191244	25.0	25.0	
56 Isobutyl alcohol	43	5.090	5.090	0.000	49	457534	625.0	550.6	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	72	519669	25.0	24.2	
59 n-Heptane	43	5.303	5.303	0.000	87	514789	25.0	25.2	
60 Trichloroethene	95	5.698	5.698	0.000	88	323730	25.0	25.0	
62 Methylcyclohexane	83	5.838	5.838	0.000	96	509949	25.0	24.8	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	86	324571	25.0	25.0	
64 Dibromomethane	93	6.051	6.051	0.000	88	212662	25.0	24.7	
66 1,4-Dioxane	88	6.069	6.069	0.000	45	82919	500.0	523.5	M
67 Dichlorobromomethane	83	6.209	6.209	0.000	87	407894	25.0	25.5	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	92	232484	25.0	26.3	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	86	471254	25.0	25.6	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	824029	125.0	131.5	
73 Toluene	92	6.933	6.933	0.000	95	757033	25.0	25.1	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	89	432724	25.0	26.7	
77 Ethyl methacrylate	69	7.256	7.256	0.000	92	389723	25.0	26.2	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	89	221383	25.0	25.8	
79 Tetrachloroethene	166	7.469	7.469	0.000	89	323802	25.0	24.4	
80 1,3-Dichloropropane	76	7.536	7.536	0.000	95	467122	25.0	25.3	
82 2-Hexanone	43	7.615	7.615	0.000	99	1551654	125.0	134.3	
83 Chlorodibromomethane	129	7.773	7.773	0.000	88	320008	25.0	26.4	
84 Ethylene Dibromide	107	7.882	7.882	0.000	96	305051	25.0	27.1	
85 Chlorobenzene	112	8.369	8.369	0.000	93	877373	25.0	25.5	
89 1,1,1,2-Tetrachloroethane	131	8.460	8.460	0.000	48	326836	25.0	26.2	
88 Ethylbenzene	91	8.472	8.472	0.000	98	1369564	25.0	24.5	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	553246	25.0	26.0	
91 o-Xylene	106	9.014	9.014	0.000	98	552920	25.0	25.0	
92 Styrene	104	9.044	9.044	0.000	96	922922	25.0	25.9	
93 Bromoform	173	9.269	9.269	0.000	92	204005	25.0	26.1	
95 Isopropylbenzene	105	9.403	9.403	0.000	96	1435122	25.0	25.0	
97 Bromobenzene	156	9.744	9.744	0.000	91	360702	25.0	24.2	
98 1,1,2,2-Tetrachloroethane	83	9.780	9.780	0.000	89	388414	25.0	25.6	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	86	126923	25.0	24.9	
100 N-Propylbenzene	91	9.835	9.835	0.000	98	1638178	25.0	25.1	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	31	142512	25.0	25.3	
102 2-Chlorotoluene	126	9.933	9.933	0.000	96	352147	25.0	25.9	
104 1,3,5-Trimethylbenzene	105	10.018	10.018	0.000	96	1176597	25.0	25.5	
105 4-Chlorotoluene	91	10.048	10.048	0.000	97	1117743	25.0	25.7	
106 tert-Butylbenzene	134	10.340	10.340	0.000	91	278773	25.0	25.1	
108 1,2,4-Trimethylbenzene	105	10.389	10.389	0.000	66	1214036	25.0	25.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	1538864	25.0	25.5	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	97	700737	25.0	25.2	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	96	1343714	25.0	25.8	
113 1,4-Dichlorobenzene	146	10.760	10.760	0.000	92	703970	25.0	25.2	
115 n-Butylbenzene	91	11.082	11.082	0.000	95	1198747	25.0	25.9	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	95	684047	25.0	25.4	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	81	77949	25.0	27.0	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	90	492214	25.0	27.4	
120 Hexachlorobutadiene	225	12.652	12.652	0.000	93	204880	25.0	24.5	
121 Naphthalene	128	12.737	12.737	0.000	97	1458006	25.0	27.8	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	94	445208	25.0	27.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	12.50	Units: uL	
GAS CORP mix_00286	Amount Added:	12.50	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

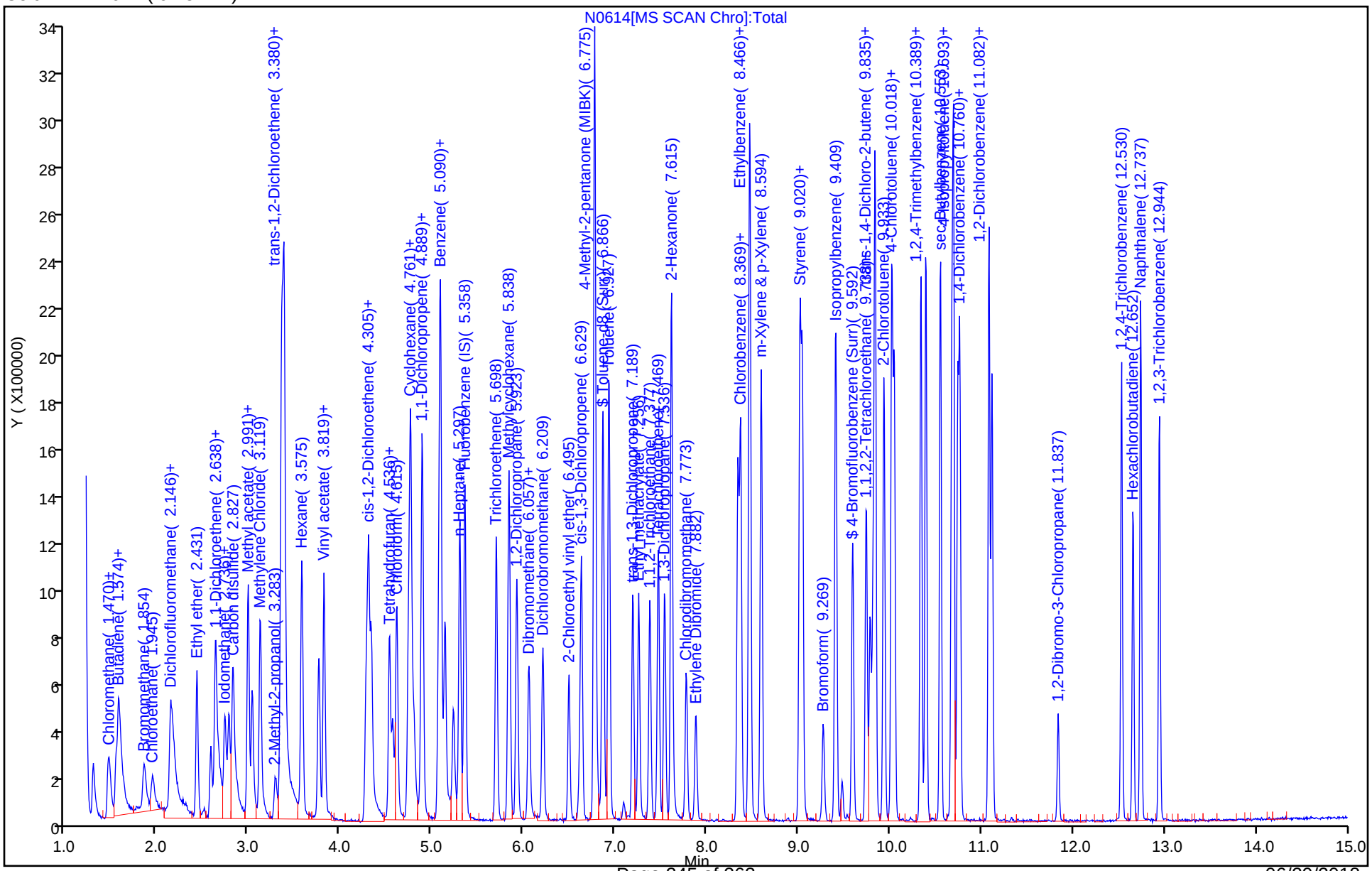
Report Date: 18-Jun-2018 12:44:28 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0614.D

Injection Date:	15-Jun-2018 16:07:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	ICIS 5			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

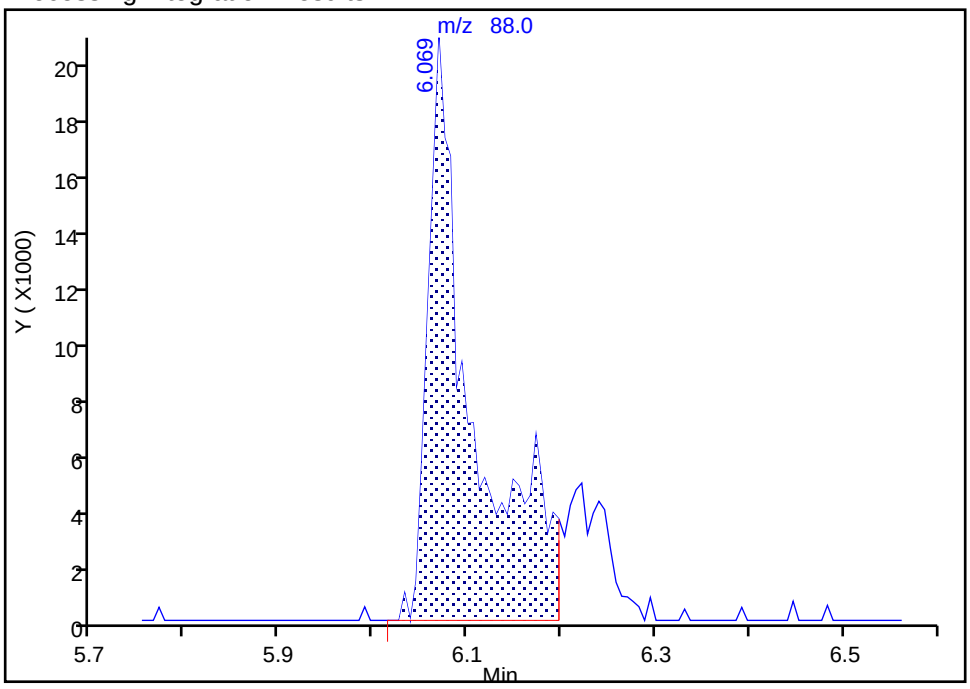
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0614.D
Injection Date: 15-Jun-2018 16:07:30 Instrument ID: HP5973N
Lims ID: ICIS 5
Client ID:
Operator ID: LH ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

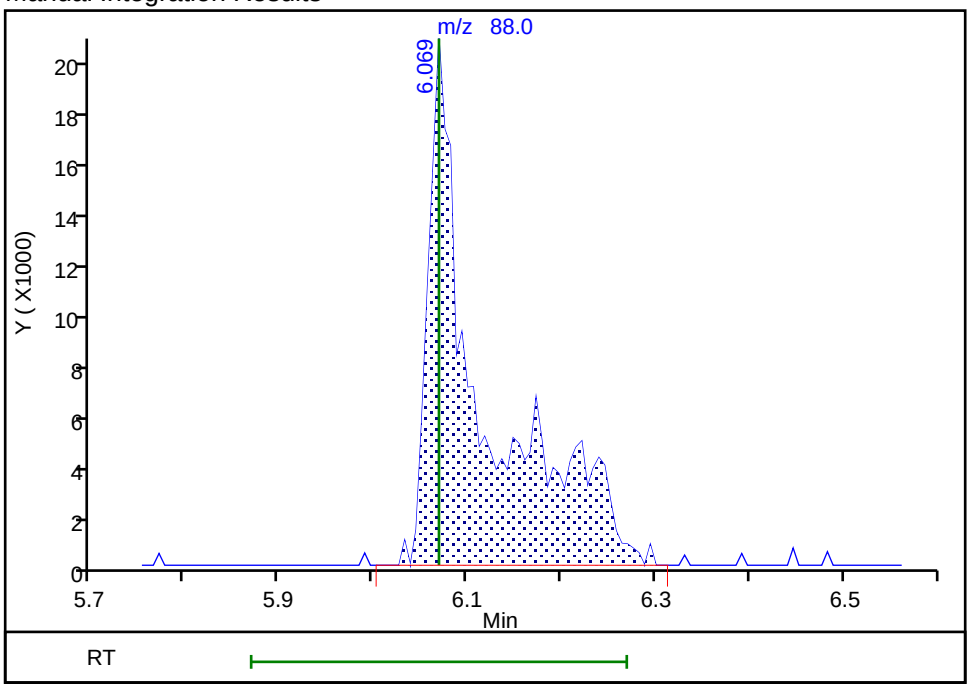
Processing Integration Results

RT: 6.07
Area: 68506
Amount: 541.7530
Amount Units: ug/L



Manual Integration Results

RT: 6.07
Area: 82919
Amount: 523.5047
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 18:18:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0615.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 15-Jun-2018 16:34:30 ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0072372-013
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:30 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: milligana Date: 15-Jun-2018 20:44:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	98	216976	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	86	823002	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	95	398004	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.768	-0.007	55	302536	25.0	24.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.072	5.066	0.006	0	371695	25.0	24.1	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1052987	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	91	322288	25.0	23.8	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	98	657528	50.0	50.5	
13 Chloromethane	50	1.470	1.464	0.006	99	876454	50.0	48.7	
14 Vinyl chloride	62	1.549	1.549	0.000	98	684112	50.0	45.3	
144 Butadiene	54	1.580	1.574	0.006	93	695038	50.0	45.1	
15 Bromomethane	94	1.847	1.854	-0.007	93	372837	50.0	44.9	
16 Chloroethane	64	1.945	1.951	-0.006	97	368033	50.0	48.3	
17 Dichlorofluoromethane	67	2.152	2.146	0.006	93	911652	50.0	48.6	
18 Trichlorofluoromethane	101	2.145	2.152	-0.007	75	853724	50.0	49.7	
19 Ethyl ether	59	2.431	2.431	0.000	97	637232	50.0	46.6	
20 Acrolein	56	2.583	2.584	-0.001	98	575599	250.0	238.2	
22 1,1-Dichloroethene	96	2.638	2.632	0.006	94	510028	50.0	45.1	
21 1,1,2-Trichloro-1,2,2-trif	101	2.650	2.663	-0.013	93	482263	50.0	47.0	
23 Acetone	43	2.736	2.742	-0.006	98	907666	250.0	208.6	M
24 Iodomethane	142	2.784	2.778	0.006	98	1026527	50.0	49.4	
25 Carbon disulfide	76	2.827	2.827	0.000	99	1713849	50.0	49.2	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	86	1173991	50.0	47.7	
28 Methyl acetate	43	3.034	3.034	0.000	99	1339552	100.0	88.6	
30 Methylene Chloride	84	3.125	3.125	0.000	97	656584	50.0	48.5	
31 2-Methyl-2-propanol	59	3.283	3.289	-0.006	97	457254	500.0	444.0	
33 trans-1,2-Dichloroethene	96	3.356	3.356	0.000	93	605317	50.0	45.4	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	100	2089723	50.0	49.7	
34 Acrylonitrile	53	3.380	3.380	0.000	98	3581632	500.0	511.1	M
35 Hexane	57	3.575	3.575	0.000	95	896243	50.0	42.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	97	1193228	50.0	47.6	
39 Vinyl acetate	43	3.818	3.819	-0.001	98	2735457	100.0	98.3	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	88	776390	50.0	45.6	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	86	698069	50.0	47.7	
44 2-Butanone (MEK)	43	4.336	4.336	0.000	99	2050834	250.0	257.1	
47 Chlorobromomethane	128	4.536	4.536	0.000	95	361579	50.0	48.1	
49 Tetrahydrofuran	42	4.567	4.567	0.000	90	583756	100.0	94.8	
50 Chloroform	83	4.615	4.615	0.000	96	1102273	50.0	47.5	
51 1,1,1-Trichloroethane	97	4.743	4.737	0.006	97	916610	50.0	47.3	
52 Cyclohexane	56	4.768	4.761	0.007	96	1074024	50.0	46.3	
53 Carbon tetrachloride	117	4.883	4.889	-0.006	96	799858	50.0	48.6	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	89	789442	50.0	46.6	
56 Isobutyl alcohol	43	5.084	5.090	-0.006	52	908655	1250.0	1054.5	
55 Benzene	78	5.090	5.090	0.000	97	2357523	50.0	47.6	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	97	1022784	50.0	46.0	
59 n-Heptane	43	5.303	5.303	0.000	96	1033063	50.0	48.8	
60 Trichloroethene	95	5.698	5.698	0.000	94	643925	50.0	47.9	
62 Methylcyclohexane	83	5.838	5.838	0.000	96	1015519	50.0	47.7	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	89	643092	50.0	47.8	
64 Dibromomethane	93	6.057	6.051	0.006	97	437699	50.0	49.0	
66 1,4-Dioxane	88	6.069	6.069	0.000	99	163759	1000.0	984.9	M
67 Dichlorobromomethane	83	6.209	6.209	0.000	97	831223	50.0	50.1	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	95	470078	50.0	51.3	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	89	956521	50.0	50.1	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	1642954	250.0	249.8	
73 Toluene	92	6.927	6.933	-0.006	97	1472318	50.0	46.4	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	96	892700	50.0	52.5	
77 Ethyl methacrylate	69	7.256	7.256	0.000	92	801944	50.0	51.4	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	94	446685	50.0	49.6	
79 Tetrachloroethene	166	7.475	7.469	0.006	94	655818	50.0	47.2	
80 1,3-Dichloropropane	76	7.542	7.536	0.006	97	917996	50.0	47.4	
82 2-Hexanone	43	7.615	7.615	0.000	99	3034821	250.0	250.2	
83 Chlorodibromomethane	129	7.773	7.773	0.000	90	647139	50.0	50.8	
84 Ethylene Dibromide	107	7.882	7.882	0.000	98	601230	50.0	50.8	
85 Chlorobenzene	112	8.369	8.369	0.000	94	1745725	50.0	48.4	
89 1,1,1,2-Tetrachloroethane	131	8.460	8.460	0.000	93	649362	50.0	49.6	
88 Ethylbenzene	91	8.472	8.472	0.000	98	2781536	50.0	47.5	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	1106925	50.0	49.6	
91 o-Xylene	106	9.020	9.014	0.006	97	1116770	50.0	48.1	
92 Styrene	104	9.044	9.044	0.000	96	1858717	50.0	49.7	
93 Bromoform	173	9.269	9.269	0.000	95	418982	50.0	51.0	
95 Isopropylbenzene	105	9.409	9.403	0.006	96	2899883	50.0	50.8	
97 Bromobenzene	156	9.744	9.744	0.000	91	731891	50.0	49.4	
98 1,1,2,2-Tetrachloroethane	83	9.780	9.780	0.000	96	755997	50.0	50.0	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	91	250823	50.0	49.5	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	78	288781	50.0	51.4	
100 N-Propylbenzene	91	9.835	9.835	0.000	99	3305485	50.0	50.9	
102 2-Chlorotoluene	126	9.932	9.933	0.000	96	700880	50.0	51.9	
104 1,3,5-Trimethylbenzene	105	10.018	10.018	0.000	94	2362171	50.0	51.4	
105 4-Chlorotoluene	91	10.042	10.048	-0.006	98	2172778	50.0	50.1	
106 tert-Butylbenzene	134	10.340	10.340	0.000	94	553208	50.0	50.0	
108 1,2,4-Trimethylbenzene	105	10.395	10.389	0.006	98	2444341	50.0	50.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	3053936	50.0	50.7	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	98	1388568	50.0	50.3	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	2641568	50.0	50.9	
113 1,4-Dichlorobenzene	146	10.766	10.760	0.006	95	1393050	50.0	50.0	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	2316962	50.0	50.2	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	97	1356591	50.0	50.7	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	83	162144	50.0	56.4	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	965139	50.0	54.0	
120 Hexachlorobutadiene	225	12.658	12.652	0.006	97	399315	50.0	47.9	
121 Naphthalene	128	12.737	12.737	0.000	97	2898399	50.0	55.6	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	95	879783	50.0	53.5	
S 126 Xylenes, Total	1				0			97.8	
S 123 1,3-Dichloropropene, Total	1				0			102.7	
S 124 1,2-Dichloroethene, Total	1				0			93.1	
S 125 Total BTEX	1				0			239.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 25.00	Units: uL		
GAS CORP mix_00286	Amount Added: 25.00	Units: uL		
N_8260_Surr_00332	Amount Added: 1.00	Units: uL	Run Reagent	
N 8260 IS_00117	Amount Added: 1.00	Units: uL	Run Reagent	

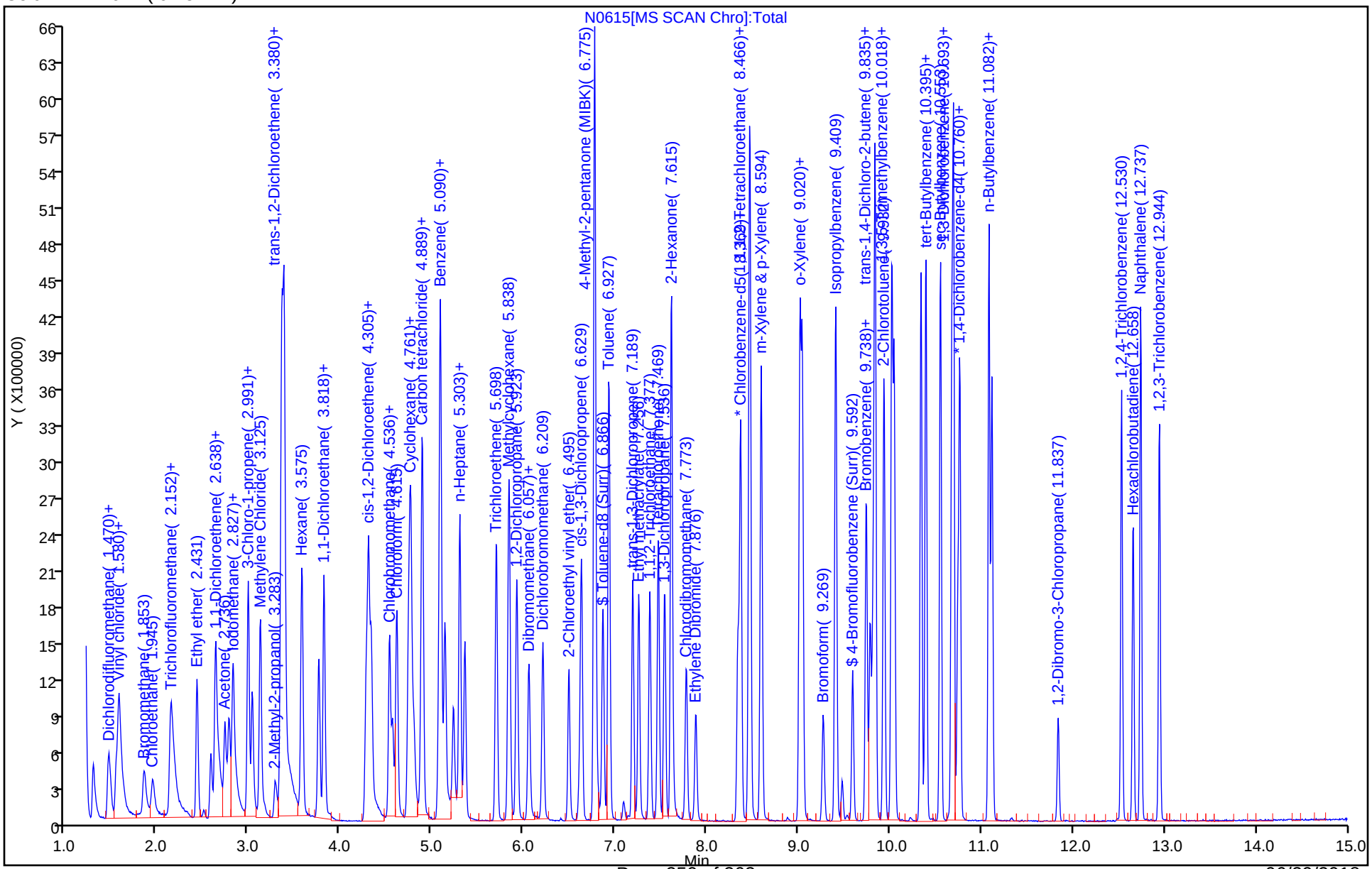
Report Date: 18-Jun-2018 12:44:33 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0615.D

Injection Date:	15-Jun-2018 16:34:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 6			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

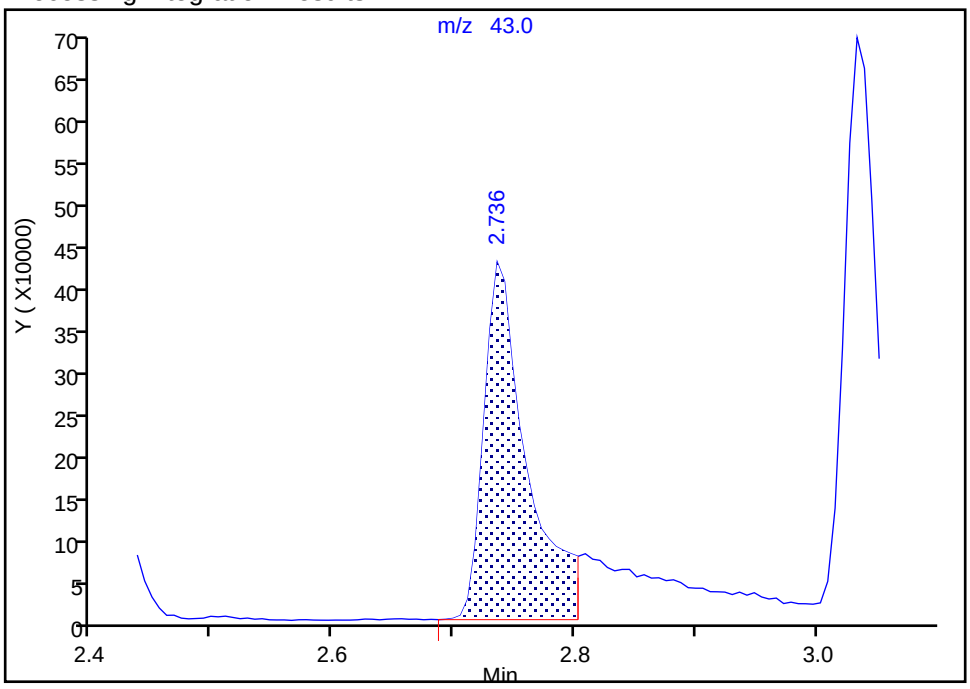
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0615.D
Injection Date: 15-Jun-2018 16:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

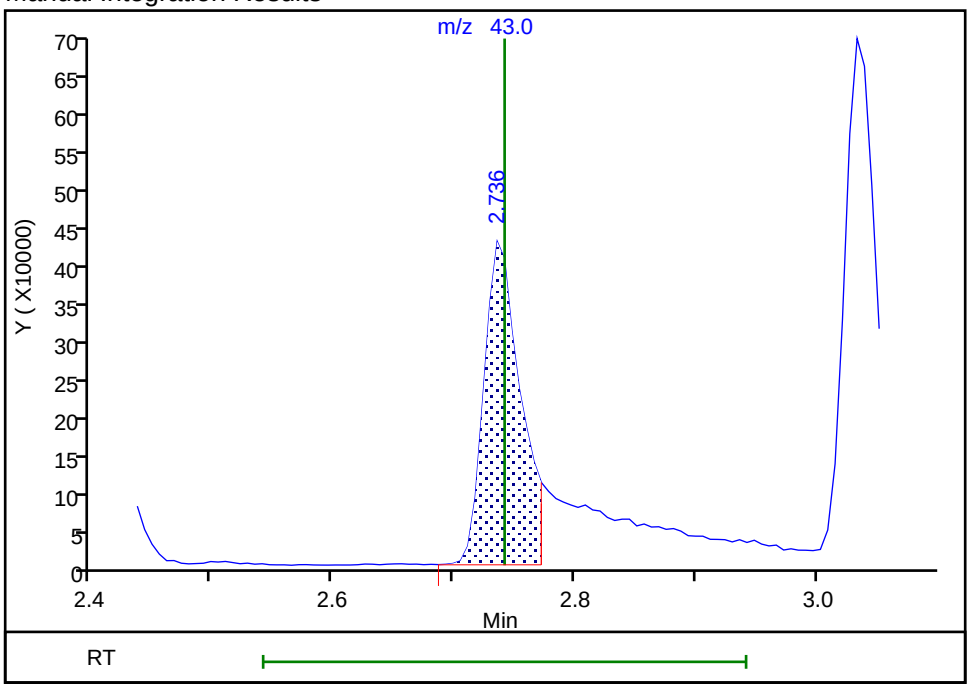
Processing Integration Results

RT: 2.74
Area: 1060008
Amount: 225.1243
Amount Units: ug/L



Manual Integration Results

RT: 2.74
Area: 907666
Amount: 208.5984
Amount Units: ug/L



Reviewer: milligana, 16-Jun-2018 10:57:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

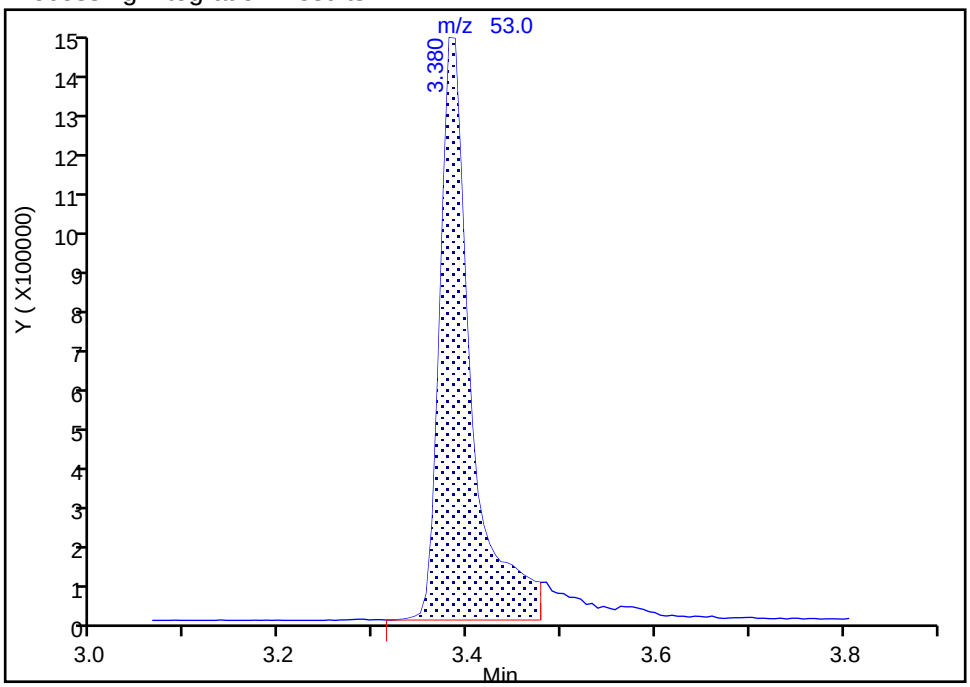
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0615.D
Injection Date: 15-Jun-2018 16:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

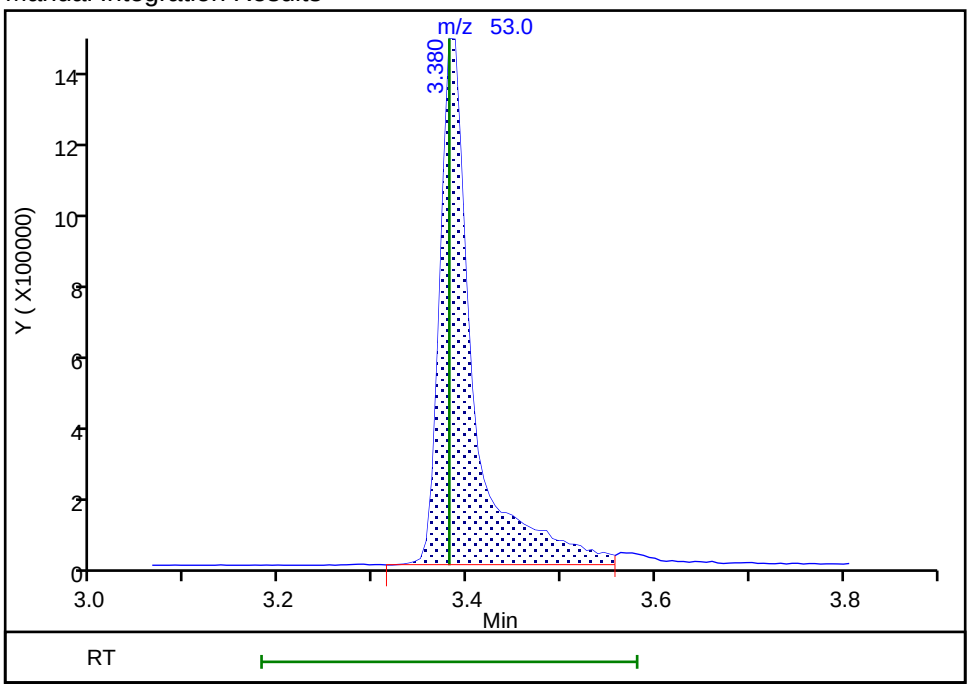
Processing Integration Results

RT: 3.38
Area: 3352456
Amount: 482.3454
Amount Units: ug/L



Manual Integration Results

RT: 3.38
Area: 3581632
Amount: 511.1056
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:44:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

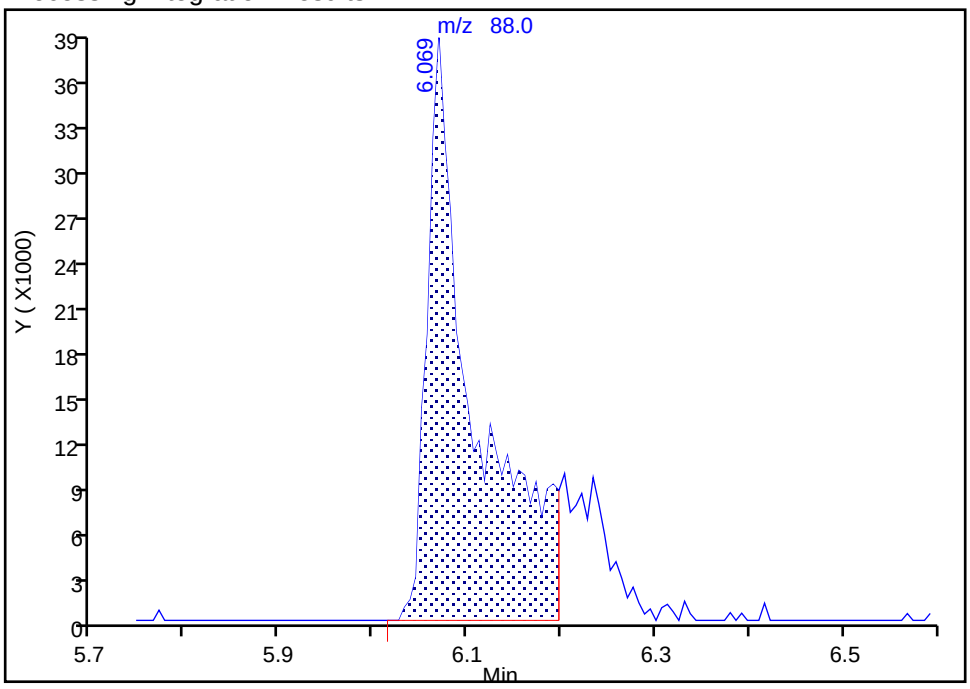
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0615.D
Injection Date: 15-Jun-2018 16:34:30 Instrument ID: HP5973N
Lims ID: IC 6
Client ID:
Operator ID: LH ALS Bottle#: 9 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

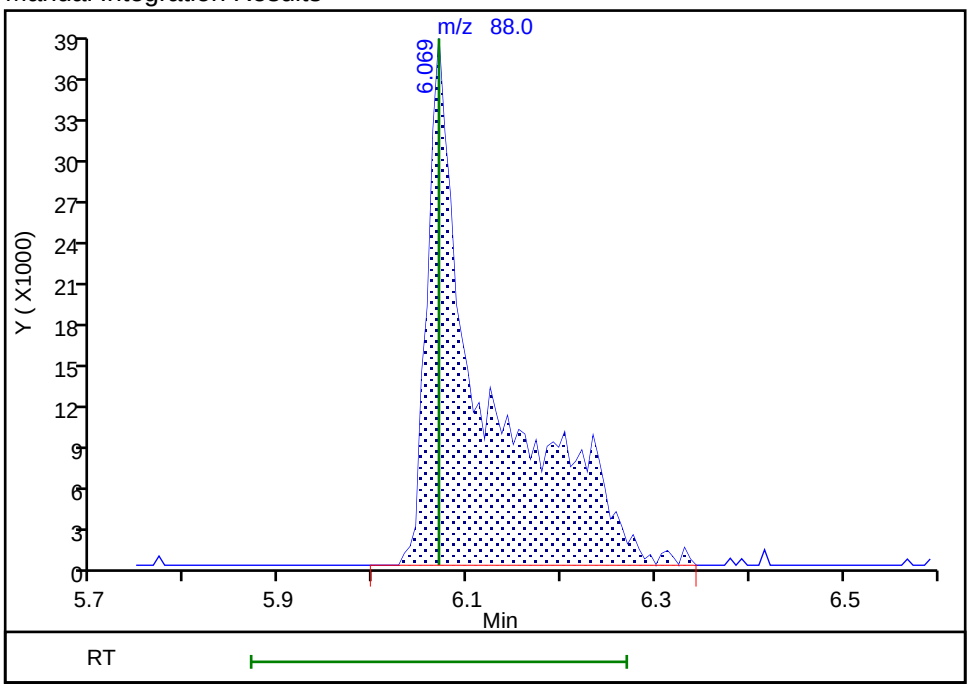
Processing Integration Results

RT: 6.07
Area: 133973
Amount: 824.1939
Amount Units: ug/L



Manual Integration Results

RT: 6.07
Area: 163759
Amount: 984.8768
Amount Units: ug/L



Reviewer: milligana, 15-Jun-2018 20:44:28
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0616.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 15-Jun-2018 17:01:30 ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0072372-014
Operator ID: LH Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:35 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: milligana Date: 15-Jun-2018 20:47:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	99	212426	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	88	843028	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	96	403810	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.768	4.768	0.000	43	306861	25.0	25.3	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	375772	25.0	24.8	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1088579	25.0	24.5	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	91	338909	25.0	24.4	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	98	1390682	100.0	109.1	
13 Chloromethane	50	1.470	1.464	0.006	99	1780451	100.0	101.0	
14 Vinyl chloride	62	1.549	1.549	0.000	98	1421907	100.0	96.2	
144 Butadiene	54	1.580	1.574	0.006	94	1457946	100.0	96.6	
15 Bromomethane	94	1.860	1.854	0.006	93	758729	100.0	93.2	
16 Chloroethane	64	1.945	1.951	-0.006	96	741369	100.0	99.4	
17 Dichlorofluoromethane	67	2.152	2.146	0.006	97	1837338	100.0	100.0	
18 Trichlorofluoromethane	101	2.145	2.152	-0.007	86	1785046	100.0	106.1	
19 Ethyl ether	59	2.431	2.431	0.000	97	1321838	100.0	98.8	
20 Acrolein	56	2.583	2.584	-0.001	99	1223513	500.0	517.1	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	94	1120375	100.0	101.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.663	2.663	0.000	93	1123893	100.0	111.8	
23 Acetone	43	2.736	2.742	-0.006	98	2322360	500.0	545.2	M
24 Iodomethane	142	2.784	2.778	0.006	99	2152554	100.0	105.8	
25 Carbon disulfide	76	2.827	2.827	0.000	99	3664680	100.0	107.4	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	86	2515834	100.0	104.4	
28 Methyl acetate	43	3.034	3.034	0.000	99	2998714	200.0	202.6	
30 Methylene Chloride	84	3.125	3.125	0.000	96	1328951	100.0	101.1	
31 2-Methyl-2-propanol	59	3.283	3.289	-0.006	98	1267574	1000.0	1257.3	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	99	4239234	100.0	103.1	
33 trans-1,2-Dichloroethene	96	3.362	3.356	0.006	94	1281314	100.0	98.1	
34 Acrylonitrile	53	3.387	3.380	0.007	98	7792194	1000.0	1135.8	
35 Hexane	57	3.575	3.575	0.000	96	2148797	100.0	105.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	97	2536912	100.0	103.4	
39 Vinyl acetate	43	3.818	3.819	-0.001	97	5859986	200.0	215.0	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	90	1631081	100.0	97.9	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	86	1475550	100.0	103.0	
44 2-Butanone (MEK)	43	4.336	4.336	0.000	98	4885164	500.0	625.6	
47 Chlorobromomethane	128	4.536	4.536	0.000	95	773025	100.0	105.1	
49 Tetrahydrofuran	42	4.561	4.567	-0.006	91	1305592	200.0	216.5	
50 Chloroform	83	4.615	4.615	0.000	97	2306711	100.0	101.4	
51 1,1,1-Trichloroethane	97	4.743	4.737	0.006	97	1956580	100.0	103.2	
52 Cyclohexane	56	4.768	4.761	0.007	96	2419845	100.0	106.5	
53 Carbon tetrachloride	117	4.883	4.889	-0.006	96	1774881	100.0	110.2	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	90	1732109	100.0	104.3	
55 Benzene	78	5.090	5.090	0.000	98	5060498	100.0	104.4	
56 Isobutyl alcohol	43	5.084	5.090	-0.006	93	2173699	2500.0	2576.6	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	97	2173200	100.0	99.9	
59 n-Heptane	43	5.303	5.303	0.000	96	2354295	100.0	113.7	
60 Trichloroethene	95	5.698	5.698	0.000	94	1390846	100.0	105.6	
62 Methylcyclohexane	83	5.838	5.838	0.000	96	2243491	100.0	107.6	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	88	1357177	100.0	103.1	
64 Dibromomethane	93	6.051	6.051	0.000	95	921412	100.0	105.4	
66 1,4-Dioxane	88	6.069	6.069	0.000	96	342375	2000.0	2010.2	
67 Dichlorobromomethane	83	6.209	6.209	0.000	96	1840007	100.0	113.3	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	94	1061648	100.0	118.2	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	93	2083048	100.0	111.5	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	3584805	500.0	532.2	
73 Toluene	92	6.933	6.933	0.000	97	3270917	100.0	100.7	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	96	1954458	100.0	112.3	
77 Ethyl methacrylate	69	7.256	7.256	0.000	94	1707452	100.0	106.7	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	94	953889	100.0	103.5	
79 Tetrachloroethene	166	7.475	7.469	0.006	95	1457738	100.0	102.3	
80 1,3-Dichloropropane	76	7.542	7.536	0.006	97	1993616	100.0	100.5	
82 2-Hexanone	43	7.615	7.615	0.000	99	6774830	500.0	545.3	
83 Chlorodibromomethane	129	7.779	7.773	0.006	91	1446676	100.0	111.0	
84 Ethylene Dibromide	107	7.876	7.882	-0.006	99	1296788	100.0	106.9	
85 Chlorobenzene	112	8.369	8.369	0.000	95	3810550	100.0	103.1	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.460	0.006	93	1384864	100.0	103.3	
88 Ethylbenzene	91	8.472	8.472	0.000	99	6070913	100.0	101.1	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	2383996	100.0	104.3	
91 o-Xylene	106	9.020	9.014	0.006	97	2369117	100.0	99.7	
92 Styrene	104	9.044	9.044	0.000	96	3967232	100.0	103.6	
93 Bromoform	173	9.269	9.269	0.000	95	974522	100.0	115.8	
95 Isopropylbenzene	105	9.409	9.403	0.006	96	6215157	100.0	107.3	
97 Bromobenzene	156	9.744	9.744	0.000	91	1579153	100.0	105.1	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.780	0.006	96	1573575	100.0	102.6	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	91	516037	100.0	100.4	
100 N-Propylbenzene	91	9.841	9.835	0.006	99	7025157	100.0	106.5	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	85	631485	100.0	110.9	
102 2-Chlorotoluene	126	9.932	9.933	0.000	96	1514199	100.0	110.5	
104 1,3,5-Trimethylbenzene	105	10.024	10.018	0.006	95	5003044	100.0	107.2	
105 4-Chlorotoluene	91	10.048	10.048	0.000	97	4645073	100.0	105.6	
106 tert-Butylbenzene	134	10.340	10.340	0.000	93	1186151	100.0	105.6	
108 1,2,4-Trimethylbenzene	105	10.395	10.389	0.006	98	5126631	100.0	105.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	6433230	100.0	105.4	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	99	2915000	100.0	104.0	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	5468310	100.0	103.8	
113 1,4-Dichlorobenzene	146	10.766	10.760	0.006	95	2930013	100.0	103.8	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	4707291	100.0	100.5	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	97	2795258	100.0	102.9	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	81	354748	100.0	121.7	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	1936750	100.0	106.7	
120 Hexachlorobutadiene	225	12.658	12.652	0.006	97	774991	100.0	91.7	
121 Naphthalene	128	12.737	12.737	0.000	97	6070746	100.0	114.8	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	95	1797508	100.0	107.8	
S 124 1,2-Dichloroethene, Total	1				0			201.2	
S 125 Total BTEX	1				0			510.3	
S 126 Xylenes, Total	1				0			204.0	
S 123 1,3-Dichloropropene, Total	1				0			223.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	50.00	Units: uL	
GAS CORP mix_00286	Amount Added:	50.00	Units: uL	
N_8260_Surr_00332	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00117	Amount Added:	1.00	Units: uL	Run Reagent

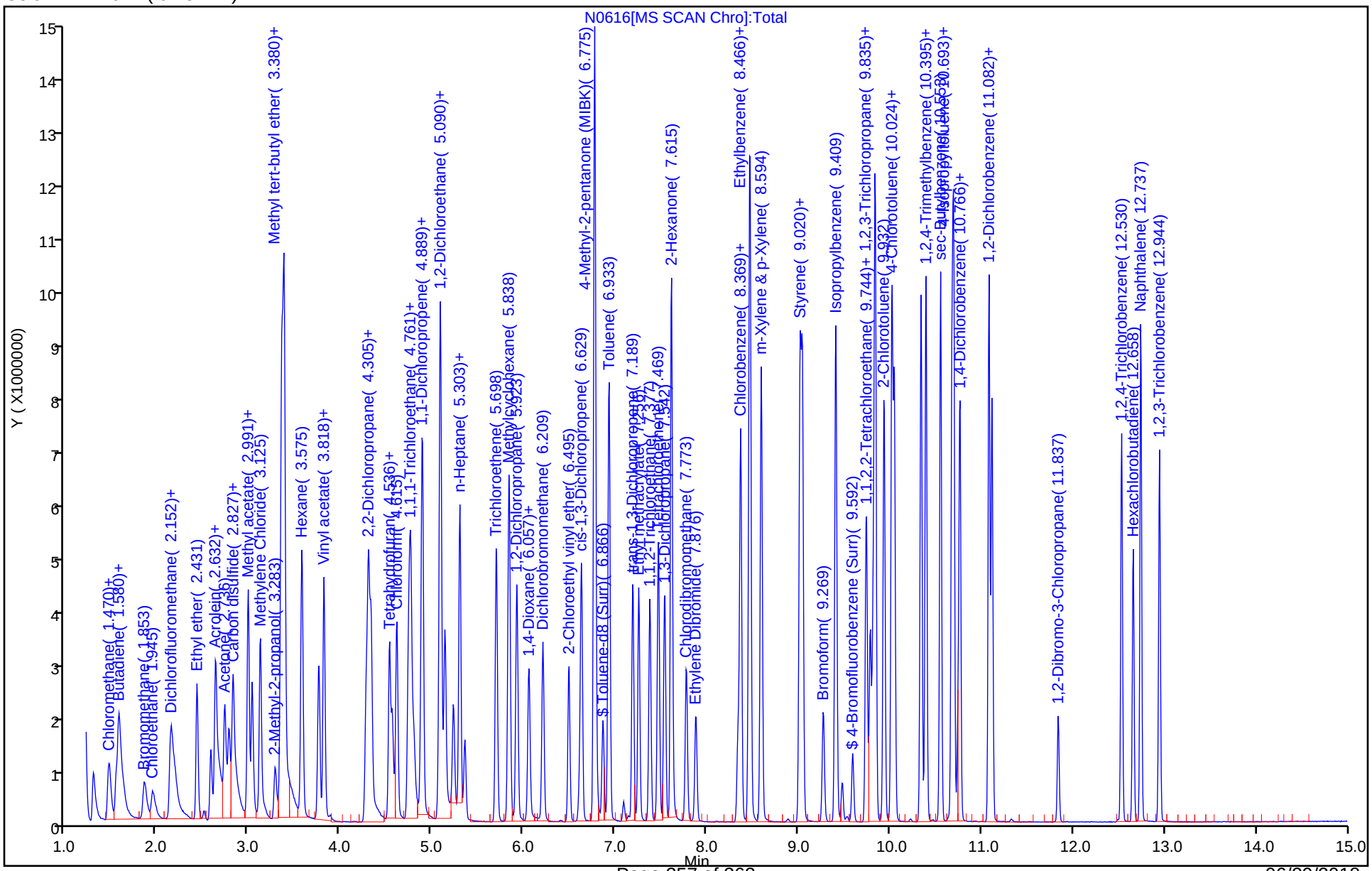
Report Date: 18-Jun-2018 12:44:36 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0616.D

Injection Date:	15-Jun-2018 17:01:30	Instrument ID:	HP5973N	Operator ID:	LH
Lims ID:	IC 7			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

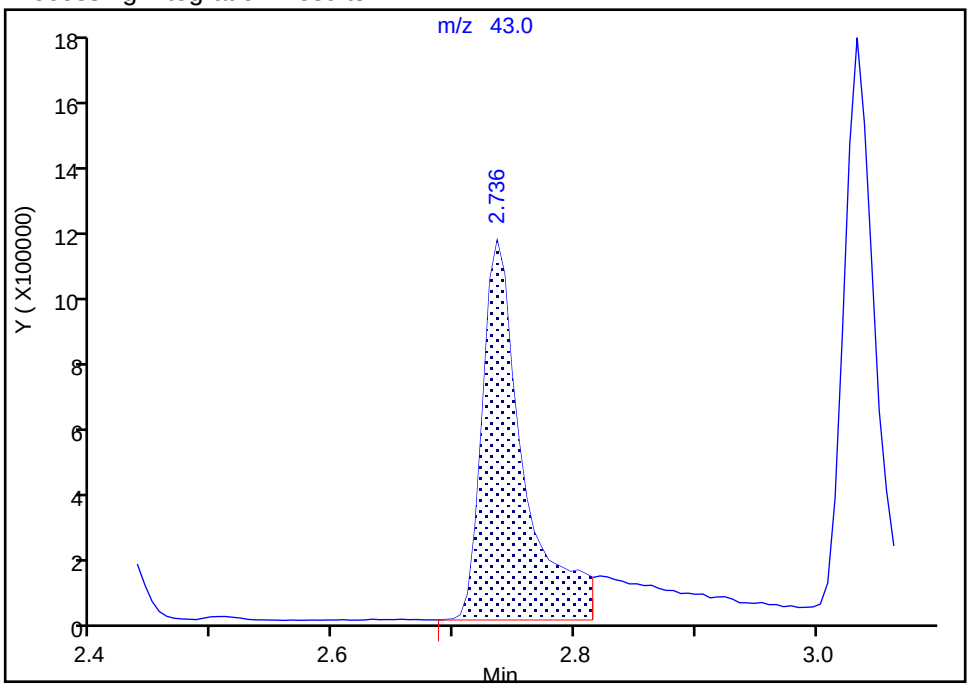
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0616.D
Injection Date: 15-Jun-2018 17:01:30 Instrument ID: HP5973N
Lims ID: IC 7
Client ID:
Operator ID: LH ALS Bottle#: 10 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

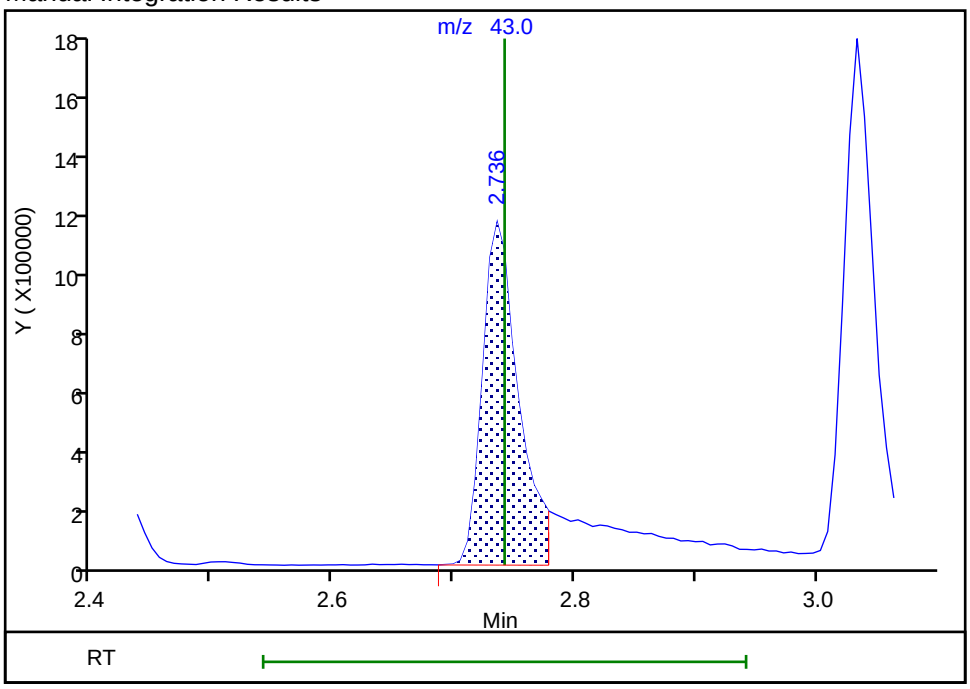
Processing Integration Results

RT: 2.74
Area: 2633626
Amount: 502.4101
Amount Units: ug/L



Manual Integration Results

RT: 2.74
Area: 2322360
Amount: 545.1532
Amount Units: ug/L



Reviewer: milligana, 16-Jun-2018 10:58:03
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-419970/3 Calibration Date: 06/16/2018 08:05

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2856.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.579	1.258	0.1000	39.8	50.0	-20.4	50.0
Chloromethane	Ave	1.288	1.076	0.1000	41.8	50.0	-16.4	20.0
Vinyl chloride	Ave	1.261	1.096	0.1000	43.4	50.0	-13.1	20.0
Butadiene	Ave	1.402	1.145		40.8	50.0	-18.3	20.0
Bromomethane	Ave	0.7119	0.6880	0.1000	48.3	50.0	-3.4	50.0
Chloroethane	Ave	0.5704	0.5605	0.1000	49.1	50.0	-1.7	50.0
Dichlorofluoromethane	Ave	1.536	1.483		48.3	50.0	-3.5	20.0
Trichlorofluoromethane	Ave	1.663	1.567	0.1000	47.1	50.0	-5.7	20.0
Ethyl ether	Ave	0.9647	0.8202		42.5	50.0	-15.0	20.0
Acrolein	Ave	0.2544	0.2386		234	250	-6.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.299	1.147	0.1000	44.2	50.0	-11.7	20.0
1,1-Dichloroethene	Ave	1.290	1.179	0.1000	45.7	50.0	-8.6	20.0
Acetone	Ave	0.5248	0.5003	0.1000	238	250	-4.7	50.0
Iodomethane	Ave	2.312	1.991		43.1	50.0	-13.9	20.0
Carbon disulfide	Ave	4.170	3.628	0.1000	43.5	50.0	-13.0	20.0
Allyl chloride	Ave	2.064	1.779		43.1	50.0	-13.8	20.0
Methyl acetate	Ave	0.9793	0.9264	0.1000	94.6	100	-5.4	50.0
Methylene Chloride	Lin1		1.391	0.1000	45.2	50.0	-9.6	20.0
2-Methyl-2-propanol	Ave	0.1531	0.1381		451	500	-9.9	50.0
Methyl tert-butyl ether	Ave	4.500	3.621	0.1000	40.2	50.0	-19.5	20.0
trans-1,2-Dichloroethene	Ave	1.485	1.344	0.1000	45.3	50.0	-9.5	20.0
Acrylonitrile	Ave	0.4921	0.4646		472	500	-5.6	20.0
Hexane	Ave	2.341	2.089		44.6	50.0	-10.8	20.0
Vinyl acetate	Ave	2.745	2.297		83.7	100	-16.3	20.0
1,1-Dichloroethane	Ave	2.540	2.293	0.2000	45.1	50.0	-9.7	20.0
2,2-Dichloropropane	Ave	2.189	1.766		40.3	50.0	-19.3	20.0
2-Butanone (MEK)	Ave	0.6830	0.6589	0.1000	241	250	-3.5	20.0
cis-1,2-Dichloroethene	Ave	1.633	1.450	0.1000	44.4	50.0	-11.2	20.0
Chlorobromomethane	Ave	0.7735	0.6723		43.5	50.0	-13.1	20.0
Tetrahydrofuran	Ave	0.4173	0.3983		95.4	100	-4.6	20.0
Chloroform	Ave	2.658	2.327	0.2000	43.8	50.0	-12.5	20.0
1,1,1-Trichloroethane	Ave	2.255	1.859	0.1000	41.2	50.0	-17.6	20.0
Cyclohexane	Ave	2.278	1.998	0.1000	43.9	50.0	-12.3	20.0
1,1-Dichloropropene	Ave	2.098	1.896		45.2	50.0	-9.6	20.0
Carbon tetrachloride	Ave	1.897	1.563	0.1000	41.2	50.0	-17.6	20.0
Isobutyl alcohol	Ave	0.0639	0.0583		1140	1250	-8.8	50.0
Benzene	Ave	5.759	5.246	0.5000	45.5	50.0	-8.9	20.0
1,2-Dichloroethane	Ave	2.197	1.830	0.1000	41.7	50.0	-16.7	20.0
n-Heptane	Ave	2.259	1.975		43.7	50.0	-12.6	20.0
Trichloroethene	Ave	1.536	1.372	0.2000	44.7	50.0	-10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-419970/3 Calibration Date: 06/16/2018 08:05

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2856.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.708	2.404	0.1000	44.4	50.0	-11.2	20.0
1,2-Dichloropropane	Ave	1.346	1.198	0.1000	44.5	50.0	-11.0	20.0
1,4-Dioxane	Ave	0.0074	0.0072		974	1000	-2.6	50.0
Dibromomethane	Ave	0.9168	0.7926	0.1000	43.2	50.0	-13.6	20.0
Bromodichloromethane	Ave	1.872	1.657	0.2000	44.3	50.0	-11.5	20.0
2-Chloroethyl vinyl ether	Ave	0.8265	0.7147		43.2	50.0	-13.5	20.0
cis-1,3-Dichloropropene	Ave	2.281	1.987	0.2000	43.5	50.0	-12.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6349	0.5646	0.1000	222	250	-11.1	20.0
Toluene	Ave	1.791	1.642	0.4000	45.8	50.0	-8.3	20.0
trans-1,3-Dichloropropene	Ave	1.049	0.8974	0.1000	42.8	50.0	-14.5	20.0
Ethyl methacrylate	Ave	0.9068	0.7821		43.1	50.0	-13.8	20.0
1,1,2-Trichloroethane	Ave	0.5094	0.4458	0.1000	43.8	50.0	-12.5	20.0
Tetrachloroethene	Ave	0.8056	0.7206	0.2000	44.7	50.0	-10.5	20.0
1,3-Dichloropropane	Ave	1.079	0.9656		44.8	50.0	-10.5	20.0
2-Hexanone	Ave	0.4957	0.4478	0.1000	226	250	-9.7	20.0
Dibromochloromethane	Ave	0.6349	0.5743	0.1000	45.2	50.0	-9.5	20.0
1,2-Dibromoethane	Ave	0.6490	0.5628		43.4	50.0	-13.3	20.0
Chlorobenzene	Ave	1.939	1.752	0.5000	45.2	50.0	-9.6	20.0
Ethylbenzene	Ave	3.228	2.949	0.1000	45.7	50.0	-8.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6266	0.5498		43.9	50.0	-12.2	20.0
m,p-Xylene	Ave	1.355	1.233	0.1000	45.5	50.0	-9.0	20.0
o-Xylene	Ave	1.268	1.132	0.3000	44.6	50.0	-10.8	20.0
Styrene	Ave	2.213	2.012	0.3000	45.5	50.0	-9.1	20.0
Bromoform	Ave	0.4126	0.3665	0.1000	44.4	50.0	-11.2	50.0
Isopropylbenzene	Ave	3.261	3.003	0.1000	46.0	50.0	-7.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8208	0.7245	0.3000	44.1	50.0	-11.7	20.0
Bromobenzene	Ave	0.8992	0.7974		44.3	50.0	-11.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2698	0.2265		42.0	50.0	-16.1	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2447		43.5	50.0	-13.1	20.0
N-Propylbenzene	Ave	3.803	3.547		46.6	50.0	-6.7	20.0
2-Chlorotoluene	Ave	0.8115	0.7396		45.6	50.0	-8.9	20.0
1,3,5-Trimethylbenzene	Ave	2.811	2.568		45.7	50.0	-8.7	20.0
4-Chlorotoluene	Ave	0.8777	0.7989		45.5	50.0	-9.0	20.0
tert-Butylbenzene	Ave	0.6427	0.5786		45.0	50.0	-10.0	20.0
1,2,4-Trimethylbenzene	Ave	2.885	2.635		45.7	50.0	-8.7	20.0
sec-Butylbenzene	Ave	3.533	3.259		46.1	50.0	-7.8	20.0
4-Isopropyltoluene	Ave	3.018	2.772		45.9	50.0	-8.2	20.0
1,3-Dichlorobenzene	Ave	1.677	1.524	0.6000	45.5	50.0	-9.1	20.0
1,4-Dichlorobenzene	Ave	1.720	1.546	0.5000	44.9	50.0	-10.1	20.0
n-Butylbenzene	Ave	2.719	2.533		46.6	50.0	-6.8	20.0
1,2-Dichlorobenzene	Ave	1.545	1.364	0.4000	44.2	50.0	-11.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-419970/3 Calibration Date: 06/16/2018 08:05

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2856.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1581	0.1365	0.0500	43.2	50.0	-13.6	50.0
1,2,4-Trichlorobenzene	Ave	1.031	0.8770	0.2000	42.5	50.0	-15.0	20.0
Hexachlorobutadiene	Ave	0.6209	0.5380		43.3	50.0	-13.3	20.0
Naphthalene	Ave	2.405	1.964		40.8	50.0	-18.3	20.0
1,2,3-Trichlorobenzene	Ave	0.9504	0.7777		40.9	50.0	-18.2	20.0
Dibromofluoromethane (Surr)	Ave	1.227	1.213		49.4	50.0	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7941	0.7606		47.9	50.0	-4.2	20.0
Toluene-d8 (Surr)	Ave	2.306	2.336		50.7	50.0	1.3	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7793	0.7547		48.4	50.0	-3.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2856.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 16-Jun-2018 08:05:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0072382-003
Operator ID: AM Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2018 08:31:34 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: moffata Date: 16-Jun-2018 08:31:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	293962	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	600571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	578723	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	356668	50.0	49.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.953	4.953	0.000	99	223580	50.0	47.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	92	1402858	50.0	50.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	96	453227	50.0	48.4	
10 Dichlorodifluoromethane	85	1.802	1.802	0.000	99	369684	50.0	39.8	
12 Chloromethane	50	1.985	1.985	0.000	99	316334	50.0	41.8	M
13 Vinyl chloride	62	2.070	2.070	0.000	98	322218	50.0	43.4	
151 Butadiene	54	2.082	2.082	0.000	90	336588	50.0	40.8	
14 Bromomethane	94	2.356	2.356	0.000	91	202255	50.0	48.3	
15 Chloroethane	64	2.411	2.411	0.000	100	164754	50.0	49.1	
16 Dichlorofluoromethane	67	2.563	2.563	0.000	97	435930	50.0	48.3	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	460754	50.0	47.1	
18 Ethyl ether	59	2.763	2.763	0.000	87	241100	50.0	42.5	
20 Acrolein	56	2.922	2.922	0.000	100	350677	250.0	234.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	337310	50.0	44.2	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	346567	50.0	45.7	
23 Acetone	43	3.031	3.031	0.000	100	735266	250.0	238.3	
25 Iodomethane	142	3.128	3.128	0.000	99	585183	50.0	43.1	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1066443	50.0	43.5	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	86	522840	50.0	43.1	
27 Methyl acetate	43	3.244	3.244	0.000	86	544672	100.0	94.6	
30 Methylene Chloride	84	3.353	3.353	0.000	89	408932	50.0	45.2	
31 2-Methyl-2-propanol	59	3.414	3.414	0.000	99	405817	500.0	450.7	
32 Methyl tert-butyl ether	73	3.506	3.506	0.000	94	1064324	50.0	40.2	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	395202	50.0	45.3	
33 Acrylonitrile	53	3.548	3.548	0.000	98	1365619	500.0	472.0	
35 Hexane	57	3.670	3.670	0.000	91	614018	50.0	44.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	1350536	100.0	83.7	
39 1,1-Dichloroethane	63	3.858	3.858	0.000	96	674164	50.0	45.1	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	88	519101	50.0	40.3	
43 2-Butanone (MEK)	43	4.296	4.296	0.000	98	968456	250.0	241.2	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	80	426363	50.0	44.4	
48 Chlorobromomethane	128	4.503	4.503	0.000	90	197622	50.0	43.5	
49 Tetrahydrofuran	42	4.528	4.528	0.000	84	234148	100.0	95.4	
50 Chloroform	83	4.540	4.540	0.000	93	684106	50.0	43.8	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	98	546353	50.0	41.2	
52 Cyclohexane	56	4.704	4.704	0.000	88	587403	50.0	43.9	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	98	557379	50.0	45.2	
55 Carbon tetrachloride	117	4.807	4.807	0.000	97	459531	50.0	41.2	
53 Isobutyl alcohol	43	4.868	4.868	0.000	93	428274	1250.0	1140.2	
57 Benzene	78	4.978	4.978	0.000	96	1541991	50.0	45.5	
58 1,2-Dichloroethane	62	5.014	5.014	0.000	97	538061	50.0	41.7	
59 n-Heptane	43	5.075	5.075	0.000	88	580650	50.0	43.7	
62 Trichloroethene	95	5.495	5.495	0.000	98	403405	50.0	44.7	
64 Methylcyclohexane	83	5.629	5.629	0.000	87	706810	50.0	44.4	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	94	352245	50.0	44.5	
66 1,4-Dioxane	88	5.823	5.823	0.000	91	87003	1000.0	973.8	
67 Dibromomethane	93	5.842	5.842	0.000	95	232979	50.0	43.2	
68 Dichlorobromomethane	83	5.951	5.951	0.000	100	487173	50.0	44.3	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	210085	50.0	43.2	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	583992	50.0	43.5	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.438	0.000	94	1695425	250.0	222.3	
74 Toluene	92	6.620	6.620	0.000	99	986007	50.0	45.8	
77 trans-1,3-Dichloropropene	75	6.845	6.845	0.000	96	538933	50.0	42.8	
75 Ethyl methacrylate	69	6.852	6.852	0.000	91	469676	50.0	43.1	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	267756	50.0	43.8	
81 Tetrachloroethene	166	7.137	7.137	0.000	98	432792	50.0	44.7	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	98	579935	50.0	44.8	
80 2-Hexanone	43	7.223	7.223	0.000	93	1344658	250.0	225.8	
83 Chlorodibromomethane	129	7.442	7.442	0.000	93	344909	50.0	45.2	
84 Ethylene Dibromide	107	7.569	7.569	0.000	100	338009	50.0	43.4	
87 Chlorobenzene	112	8.020	8.020	0.000	95	1052210	50.0	45.2	
88 Ethylbenzene	91	8.087	8.087	0.000	98	1770962	50.0	45.7	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	330206	50.0	43.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	740298	50.0	45.5	
91 o-Xylene	106	8.628	8.628	0.000	96	679786	50.0	44.6	
92 Styrene	104	8.652	8.652	0.000	94	1208566	50.0	45.5	
95 Bromoform	173	8.920	8.920	0.000	97	220097	50.0	44.4	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1737953	50.0	46.0	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	76	419271	50.0	44.1	
101 Bromobenzene	156	9.388	9.388	0.000	92	461480	50.0	44.3	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	58	131076	50.0	42.0	
100 1,2,3-Trichloropropane	110	9.437	9.437	0.000	81	141616	50.0	43.5	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2052701	50.0	46.6	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	428031	50.0	45.6	
102 1,3,5-Trimethylbenzene	105	9.607	9.607	0.000	94	1486158	50.0	45.7	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	462346	50.0	45.5	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	334840	50.0	45.0	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1524890	50.0	45.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	1885774	50.0	46.1	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	1603965	50.0	45.9	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	882101	50.0	45.5	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	894503	50.0	44.9	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1465984	50.0	46.6	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	98	789448	50.0	44.2	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	91	79018	50.0	43.2	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	507513	50.0	42.5	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	95	311376	50.0	43.3	
121 Naphthalene	128	12.266	12.266	0.000	97	1136641	50.0	40.8	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	450066	50.0	40.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 25.00	Units: uL	
GAS CORP mix_00286	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00039	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 16-Jun-2018 08:31:38 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2856.D

Injection Date: 16-Jun-2018 08:05:30 Instrument ID: HP5973F Operator ID: AM

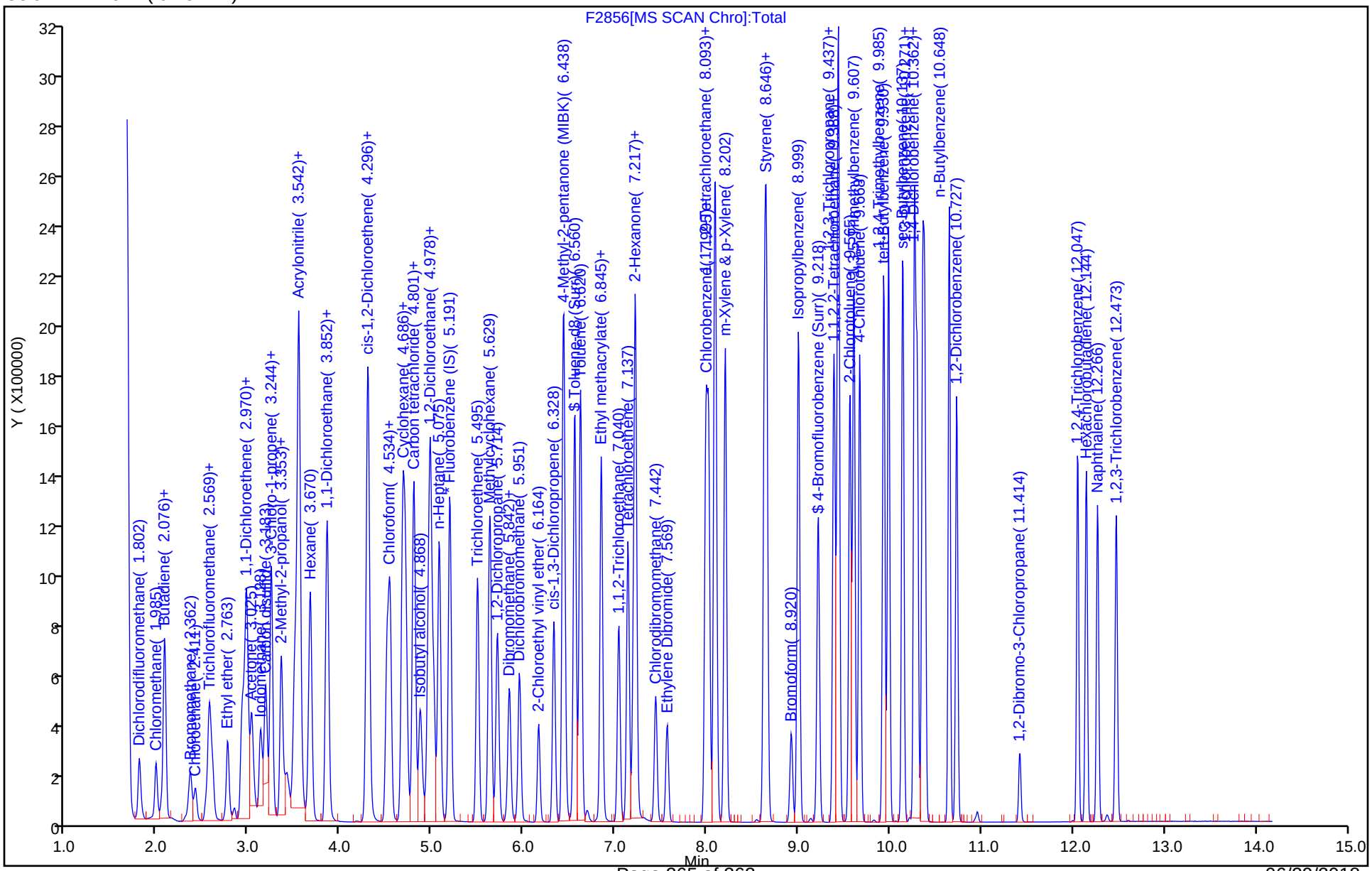
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

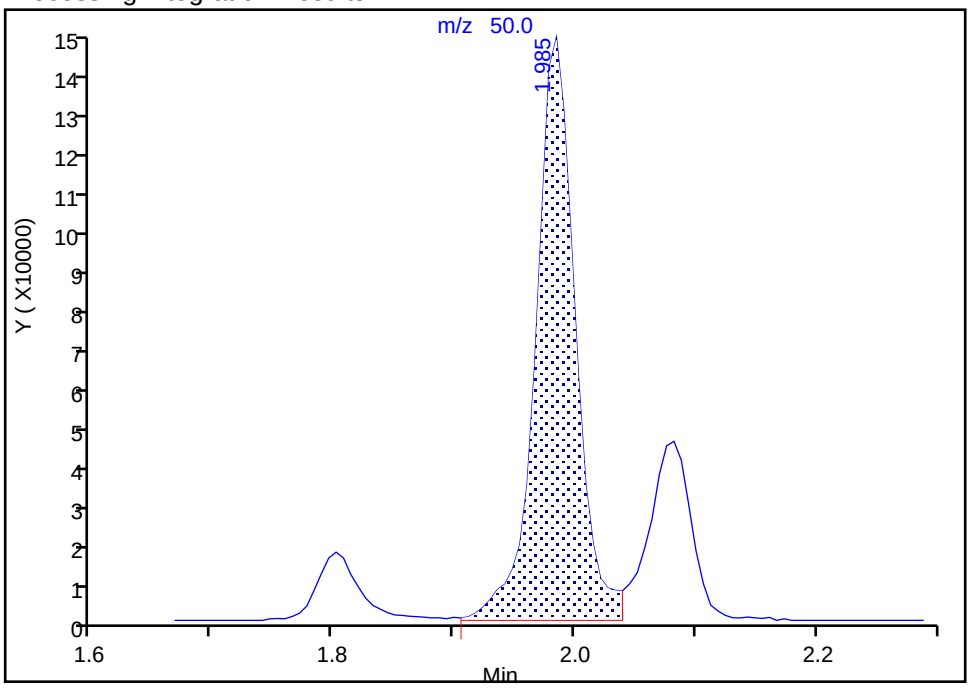
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2856.D
Injection Date: 16-Jun-2018 08:05:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

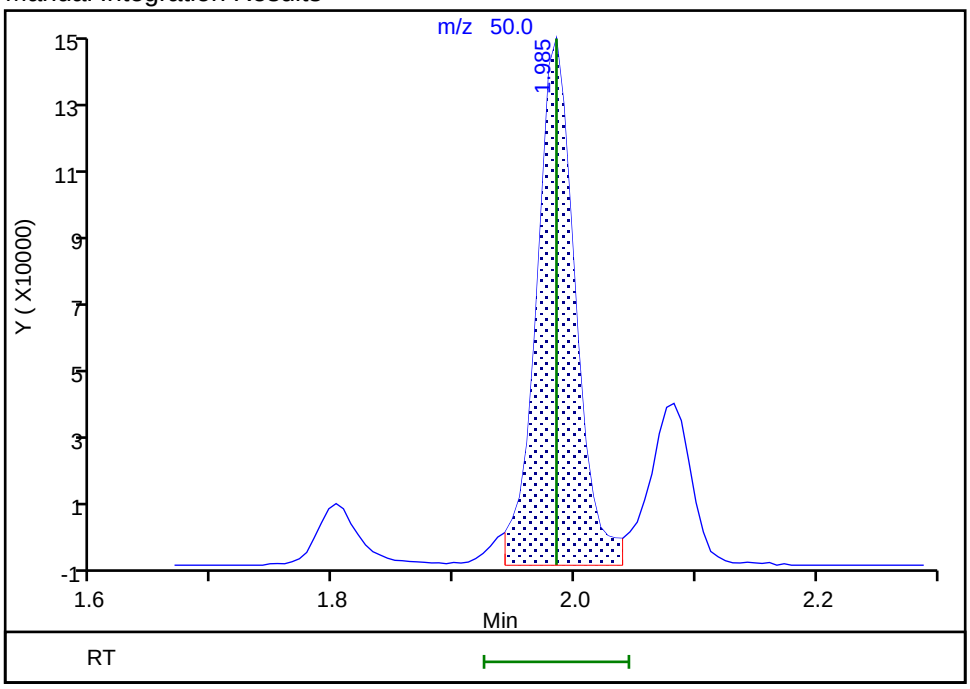
Processing Integration Results

RT: 1.98
Area: 323181
Amount: 42.686209
Amount Units: ug/kg



Manual Integration Results

RT: 1.98
Area: 316334
Amount: 41.781848
Amount Units: ug/kg



Reviewer: moffata, 16-Jun-2018 08:14:29
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420097/3 Calibration Date: 06/18/2018 07:53

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0661.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.501	1.654	0.1000	27.6	25.0	10.2	50.0
Chloromethane	Ave	2.075	2.111	0.1000	25.4	25.0	1.7	20.0
Vinyl chloride	Ave	1.740	1.771	0.1000	25.4	25.0	1.7	20.0
Butadiene	Ave	1.776	1.723		24.3	25.0	-3.0	20.0
Bromomethane	Ave	0.9578	0.9179	0.1000	24.0	25.0	-4.2	50.0
Chloroethane	Ave	0.8778	0.9105	0.1000	25.9	25.0	3.7	50.0
Trichlorofluoromethane	Ave	1.981	2.044	0.1000	25.8	25.0	3.2	20.0
Dichlorofluoromethane	Ave	2.163	2.181		25.2	25.0	0.8	20.0
Ethyl ether	Ave	1.575	1.493		23.7	25.0	-5.2	20.0
Acrolein	Ave	0.2785	0.2433		109	125	-12.6	50.0
1,1-Dichloroethene	Ave	1.302	1.191	0.1000	22.9	25.0	-8.5	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.183	1.236	0.1000	26.1	25.0	4.5	20.0
Acetone	Ave	0.5014	0.6447	0.1000	161	125	28.6	50.0
Iodomethane	Ave	2.394	2.440		25.5	25.0	1.9	20.0
Carbon disulfide	Ave	4.017	3.875	0.1000	24.1	25.0	-3.5	20.0
Allyl chloride	Ave	2.835	2.941		25.9	25.0	3.7	20.0
Methyl acetate	Ave	1.742	1.850	0.1000	53.1	50.0	6.2	50.0
Methylene Chloride	Lin1		1.351	0.1000	21.2	25.0	-15.4	20.0
2-Methyl-2-propanol	Ave	0.1186	0.1541		325	250	29.9	50.0
Methyl tert-butyl ether	Ave	4.841	4.726	0.1000	24.4	25.0	-2.4	20.0
trans-1,2-Dichloroethene	Ave	1.537	1.455	0.1000	23.7	25.0	-5.3	20.0
Acrylonitrile	Ave	0.8074	0.8308		257	250	2.9	20.0
Hexane	Ave	2.407	2.817		29.3	25.0	17.1	20.0
1,1-Dichloroethane	Ave	2.889	2.849	0.2000	24.7	25.0	-1.4	20.0
Vinyl acetate	Ave	3.207	4.302		67.1	50.0	34.2*	20.0
2,2-Dichloropropane	Ave	1.961	2.037		26.0	25.0	3.9	20.0
cis-1,2-Dichloroethene	Ave	1.685	1.630	0.1000	24.2	25.0	-3.3	20.0
2-Butanone (MEK)	Ave	0.9190	1.042	0.1000	142	125	13.4	20.0
Chlorobromomethane	Ave	0.8657	0.8270		23.9	25.0	-4.5	20.0
Tetrahydrofuran	Ave	0.7097	0.7403		52.2	50.0	4.3	20.0
Chloroform	Ave	2.676	2.608	0.2000	24.4	25.0	-2.6	20.0
1,1,1-Trichloroethane	Ave	2.231	2.326	0.1000	26.1	25.0	4.3	20.0
Cyclohexane	Ave	2.675	3.034	0.1000	28.4	25.0	13.4	20.0
Carbon tetrachloride	Ave	1.896	2.083	0.1000	27.5	25.0	9.9	20.0
1,1-Dichloropropene	Ave	1.954	2.009		25.7	25.0	2.8	20.0
Isobutyl alcohol	Ave	0.0993	0.0917		577	625	-7.7	50.0
Benzene	Ave	5.704	5.487	0.5000	24.1	25.0	-3.8	20.0
1,2-Dichloroethane	Ave	2.561	2.463	0.1000	24.0	25.0	-3.8	20.0
n-Heptane	Ave	2.437	3.168		32.5	25.0	30.0*	20.0
Trichloroethene	Ave	1.549	1.569	0.2000	25.3	25.0	1.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420097/3 Calibration Date: 06/18/2018 07:53

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0661.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.455	2.764	0.1000	28.2	25.0	12.6	20.0
1,2-Dichloropropane	Ave	1.550	1.549	0.1000	25.0	25.0	-0.0	20.0
Dibromomethane	Ave	1.029	1.025	0.1000	24.9	25.0	-0.4	20.0
1,4-Dioxane	Ave	0.0051	0.0042		412	500	-17.6	50.0
Bromodichloromethane	Ave	1.911	2.027	0.2000	26.5	25.0	6.1	20.0
2-Chloroethyl vinyl ether	Ave	1.057	1.207		28.6	25.0	14.2	20.0
cis-1,3-Dichloropropene	Ave	2.198	2.283	0.2000	26.0	25.0	3.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1998	0.2119	0.1000	133	125	6.1	20.0
Toluene	Ave	0.9635	0.9231	0.4000	24.0	25.0	-4.2	20.0
trans-1,3-Dichloropropene	Ave	0.5162	0.5427	0.1000	26.3	25.0	5.1	20.0
Ethyl methacrylate	Ave	0.4744	0.4703		24.8	25.0	-0.9	20.0
1,1,2-Trichloroethane	Ave	0.2733	0.2692	0.1000	24.6	25.0	-1.5	20.0
Tetrachloroethene	Ave	0.4224	0.4332	0.2000	25.6	25.0	2.5	20.0
1,3-Dichloropropane	Ave	0.5881	0.5559		23.6	25.0	-5.5	20.0
2-Hexanone	Ave	0.3685	0.4057	0.1000	138	125	10.1	20.0
Dibromochloromethane	Ave	0.3866	0.3947	0.1000	25.5	25.0	2.1	20.0
1,2-Dibromoethane	Ave	0.3596	0.3707		25.8	25.0	3.1	20.0
Chlorobenzene	Ave	1.096	1.082	0.5000	24.7	25.0	-1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3977	0.4059		25.5	25.0	2.1	20.0
Ethylbenzene	Ave	1.780	1.752	0.1000	24.6	25.0	-1.5	20.0
m,p-Xylene	Ave	0.6775	0.6793	0.1000	25.1	25.0	0.3	20.0
o-Xylene	Ave	0.7048	0.6772	0.3000	24.0	25.0	-3.9	20.0
Styrene	Ave	1.136	1.142	0.3000	25.1	25.0	0.5	20.0
Bromoform	Ave	0.2496	0.2613	0.1000	26.2	25.0	4.7	50.0
Isopropylbenzene	Ave	3.585	3.638	0.1000	25.4	25.0	1.5	20.0
Bromobenzene	Ave	0.9306	0.9142		24.6	25.0	-1.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9491	0.9159	0.3000	24.1	25.0	-3.5	20.0
1,2,3-Trichloropropane	Ave	0.3181	0.3111		24.4	25.0	-2.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3527	0.3824		27.1	25.0	8.4	50.0
N-Propylbenzene	Ave	4.082	4.097		25.1	25.0	0.4	20.0
2-Chlorotoluene	Ave	0.8487	0.8782		25.9	25.0	3.5	20.0
1,3,5-Trimethylbenzene	Ave	2.889	2.998		25.9	25.0	3.8	20.0
4-Chlorotoluene	Ave	2.723	2.779		25.5	25.0	2.1	20.0
tert-Butylbenzene	Ave	0.6952	0.7269		26.1	25.0	4.6	20.0
1,2,4-Trimethylbenzene	Ave	3.017	3.009		24.9	25.0	-0.2	20.0
sec-Butylbenzene	Ave	3.780	3.880		25.7	25.0	2.6	20.0
1,3-Dichlorobenzene	Ave	1.736	1.728	0.6000	24.9	25.0	-0.5	20.0
4-Isopropyltoluene	Ave	3.260	3.405		26.1	25.0	4.4	20.0
1,4-Dichlorobenzene	Ave	1.748	1.745	0.5000	25.0	25.0	-0.2	20.0
n-Butylbenzene	Ave	2.898	2.959		25.5	25.0	2.1	20.0
1,2-Dichlorobenzene	Ave	1.681	1.675	0.4000	24.9	25.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420097/3 Calibration Date: 06/18/2018 07:53

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0661.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1805	0.1811	0.0500	25.1	25.0	0.3	50.0
1,2,4-Trichlorobenzene	Ave	1.123	1.154	0.2000	25.7	25.0	2.7	20.0
Hexachlorobutadiene	Ave	0.5235	0.5366		25.6	25.0	2.5	20.0
Naphthalene	Ave	3.274	3.249		24.8	25.0	-0.8	20.0
1,2,3-Trichlorobenzene	Ave	1.032	1.021		24.7	25.0	-1.1	20.0
Dibromofluoromethane (Surr)	Ave	1.429	1.411		24.7	25.0	-1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.780	1.835		25.8	25.0	3.1	20.0
Toluene-d8 (Surr)	Ave	1.319	1.246		23.6	25.0	-5.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.4206		25.5	25.0	2.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0661.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Jun-2018 07:53:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0072406-003
Operator ID: AM Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 16:41:19 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: moffata Date: 18-Jun-2018 13:48:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	92	230433	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	87	914925	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	66	462007	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.767	4.767	0.000	61	325234	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.072	5.072	0.000	0	422756	25.0	25.8	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	83	1140357	25.0	23.6	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	384787	25.0	25.5	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	85	381180	25.0	27.6	
13 Chloromethane	50	1.470	1.470	0.000	88	486556	25.0	25.4	
14 Vinyl chloride	62	1.549	1.549	0.000	78	407982	25.0	25.4	
144 Butadiene	54	1.574	1.574	0.000	93	397093	25.0	24.3	
15 Bromomethane	94	1.853	1.853	0.000	91	211516	25.0	24.0	
16 Chloroethane	64	1.957	1.957	0.000	90	209814	25.0	25.9	
18 Trichlorofluoromethane	101	2.145	2.145	0.000	78	470912	25.0	25.8	
17 Dichlorofluoromethane	67	2.152	2.152	0.000	77	502620	25.0	25.2	
19 Ethyl ether	59	2.431	2.431	0.000	95	343971	25.0	23.7	
20 Acrolein	56	2.583	2.583	0.000	88	280269	125.0	109.2	
22 1,1-Dichloroethene	96	2.638	2.638	0.000	81	274473	25.0	22.9	
21 1,1,2-Trichloro-1,2,2-trif	101	2.644	2.644	0.000	57	284922	25.0	26.1	M
23 Acetone	43	2.736	2.736	0.000	94	742782	125.0	160.7	
24 Iodomethane	142	2.784	2.784	0.000	98	562189	25.0	25.5	
25 Carbon disulfide	76	2.827	2.827	0.000	97	893017	25.0	24.1	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	81	677591	25.0	25.9	
28 Methyl acetate	43	3.034	3.034	0.000	97	852391	50.0	53.1	
30 Methylene Chloride	84	3.125	3.125	0.000	90	311226	25.0	21.2	
31 2-Methyl-2-propanol	59	3.283	3.283	0.000	96	355086	250.0	324.7	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	92	1089103	25.0	24.4	
33 trans-1,2-Dichloroethene	96	3.362	3.362	0.000	73	335170	25.0	23.7	
34 Acrylonitrile	53	3.380	3.380	0.000	97	1914368	250.0	257.2	
35 Hexane	57	3.575	3.575	0.000	95	649121	25.0	29.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	86	656508	25.0	24.7	
39 Vinyl acetate	43	3.818	3.818	0.000	97	1982748	50.0	67.1	
42 2,2-Dichloropropane	77	4.287	4.287	0.000	86	469308	25.0	26.0	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	73	375649	25.0	24.2	
44 2-Butanone (MEK)	43	4.336	4.336	0.000	93	1200622	125.0	141.7	
47 Chlorobromomethane	128	4.536	4.536	0.000	92	190568	25.0	23.9	
49 Tetrahydrofuran	42	4.567	4.567	0.000	90	341164	50.0	52.2	
50 Chloroform	83	4.615	4.615	0.000	83	600887	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.743	4.743	0.000	91	535908	25.0	26.1	
52 Cyclohexane	56	4.767	4.767	0.000	97	699142	25.0	28.4	
53 Carbon tetrachloride	117	4.889	4.889	0.000	72	480094	25.0	27.5	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	84	462855	25.0	25.7	
56 Isobutyl alcohol	43	5.084	5.084	0.000	58	528203	625.0	577.2	
55 Benzene	78	5.090	5.090	0.000	95	1264441	25.0	24.1	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	72	567511	25.0	24.0	
59 n-Heptane	43	5.303	5.303	0.000	96	730093	25.0	32.5	
60 Trichloroethene	95	5.704	5.704	0.000	89	361633	25.0	25.3	
62 Methylcyclohexane	83	5.838	5.838	0.000	95	636970	25.0	28.2	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	86	357004	25.0	25.0	
64 Dibromomethane	93	6.057	6.057	0.000	92	236210	25.0	24.9	
66 1,4-Dioxane	88	6.069	6.069	0.000	94	76112	500.0	411.8	M
67 Dichlorobromomethane	83	6.209	6.209	0.000	88	467041	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	93	278106	25.0	28.6	
71 cis-1,3-Dichloropropene	75	6.635	6.635	0.000	85	526127	25.0	26.0	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	100	969197	125.0	132.6	
73 Toluene	92	6.933	6.933	0.000	94	844522	25.0	24.0	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	87	496565	25.0	26.3	
77 Ethyl methacrylate	69	7.256	7.256	0.000	92	430322	25.0	24.8	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	88	246324	25.0	24.6	
79 Tetrachloroethene	166	7.469	7.469	0.000	88	396337	25.0	25.6	
80 1,3-Dichloropropane	76	7.542	7.542	0.000	94	508642	25.0	23.6	
82 2-Hexanone	43	7.615	7.615	0.000	96	1855949	125.0	137.6	
83 Chlorodibromomethane	129	7.773	7.773	0.000	86	361124	25.0	25.5	
84 Ethylene Dibromide	107	7.876	7.876	0.000	94	339166	25.0	25.8	
85 Chlorobenzene	112	8.369	8.369	0.000	94	989886	25.0	24.7	
89 1,1,1,2-Tetrachloroethane	131	8.466	8.466	0.000	43	371365	25.0	25.5	
88 Ethylbenzene	91	8.472	8.472	0.000	98	1603381	25.0	24.6	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	621464	25.0	25.1	
91 o-Xylene	106	9.020	9.020	0.000	97	619581	25.0	24.0	
92 Styrene	104	9.044	9.044	0.000	94	1044911	25.0	25.1	
93 Bromoform	173	9.275	9.275	0.000	95	239024	25.0	26.2	
95 Isopropylbenzene	105	9.409	9.409	0.000	96	1680959	25.0	25.4	
97 Bromobenzene	156	9.744	9.744	0.000	89	422360	25.0	24.6	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.786	0.000	81	423150	25.0	24.1	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	81	143722	25.0	24.4	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	33	176678	25.0	27.1	
100 N-Propylbenzene	91	9.841	9.841	0.000	97	1892810	25.0	25.1	
102 2-Chlorotoluene	126	9.939	9.939	0.000	97	405730	25.0	25.9	
104 1,3,5-Trimethylbenzene	105	10.024	10.024	0.000	92	1385240	25.0	25.9	
105 4-Chlorotoluene	91	10.048	10.048	0.000	98	1284124	25.0	25.5	
106 tert-Butylbenzene	134	10.340	10.340	0.000	92	335819	25.0	26.1	
108 1,2,4-Trimethylbenzene	105	10.395	10.395	0.000	62	1390255	25.0	24.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	95	1792589	25.0	25.7	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	97	798226	25.0	24.9	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	96	1573107	25.0	26.1	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	94	806413	25.0	25.0	
115 n-Butylbenzene	91	11.082	11.082	0.000	95	1367239	25.0	25.5	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	92	773683	25.0	24.9	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.837	0.000	76	83654	25.0	25.1	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	93	533048	25.0	25.7	
120 Hexachlorobutadiene	225	12.658	12.658	0.000	95	247919	25.0	25.6	
121 Naphthalene	128	12.743	12.743	0.000	97	1501060	25.0	24.8	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	94	471812	25.0	24.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	12.50	Units: uL	
GAS CORP mix_00286	Amount Added:	12.50	Units: uL	
N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

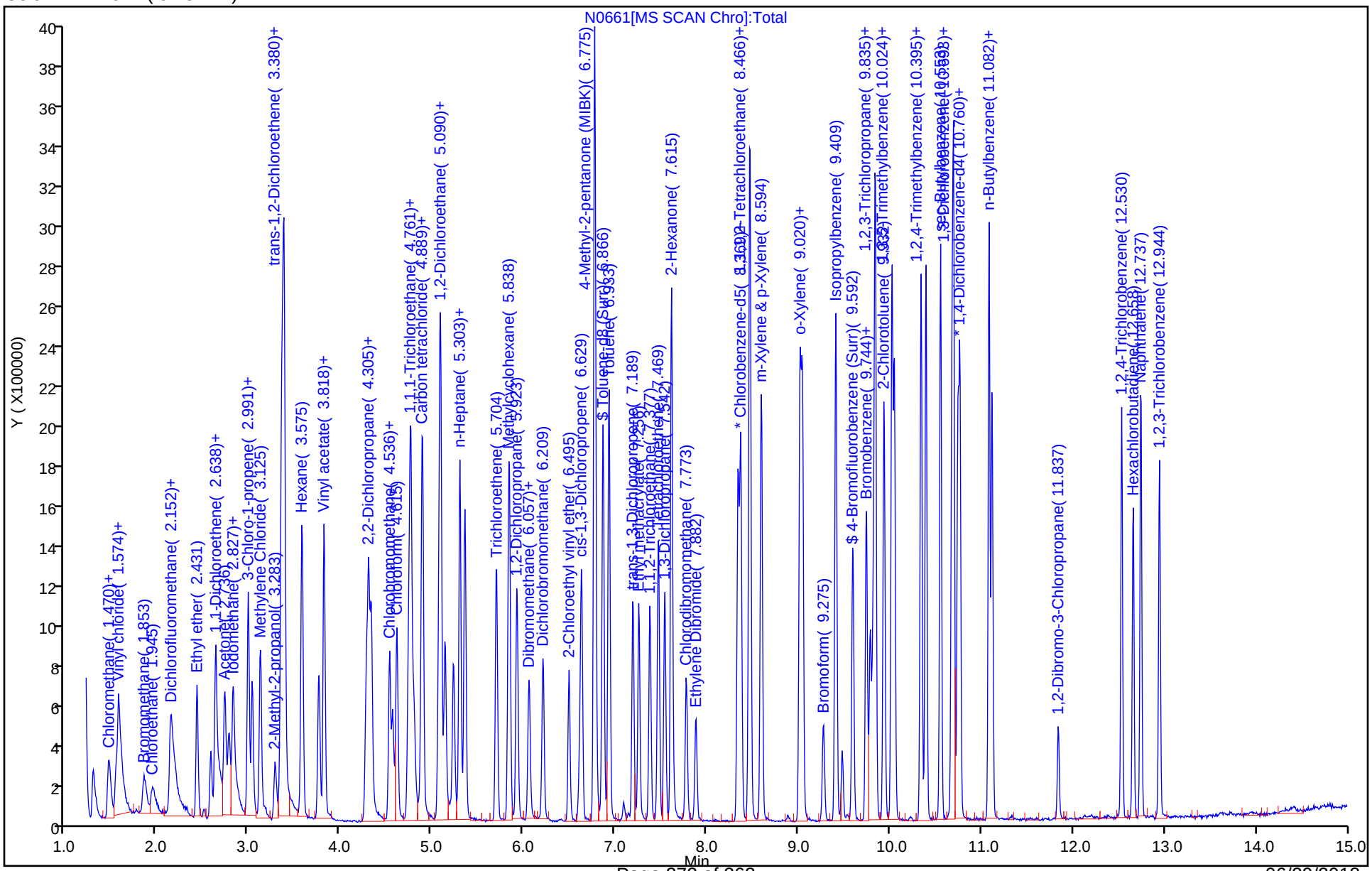
Report Date: 18-Jun-2018 16:41:21 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0661.D

Injection Date:	18-Jun-2018 07:53:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

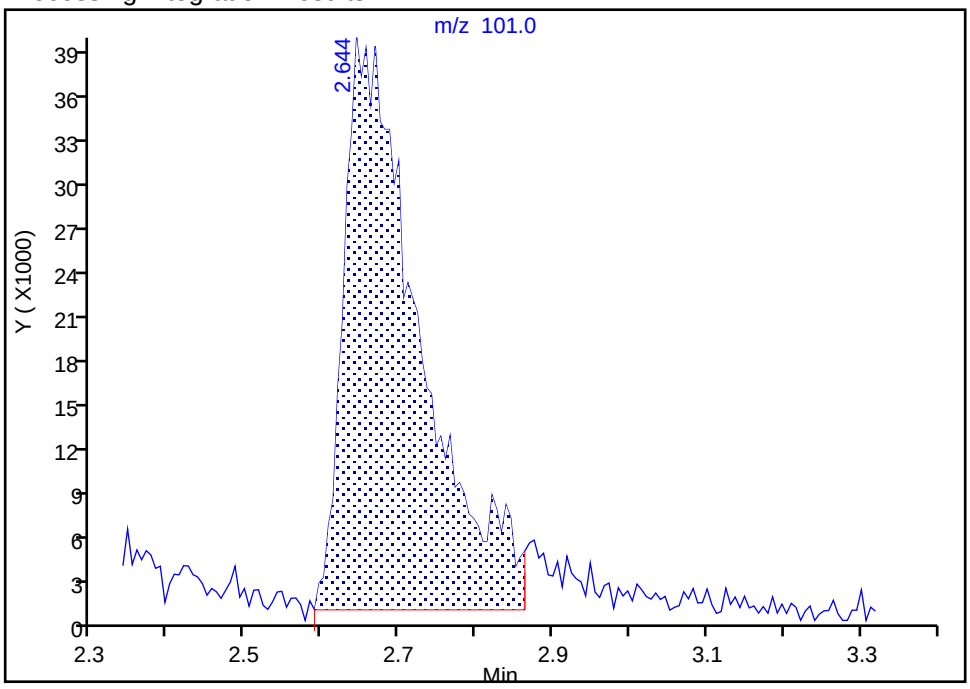
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0661.D
Injection Date: 18-Jun-2018 07:53:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

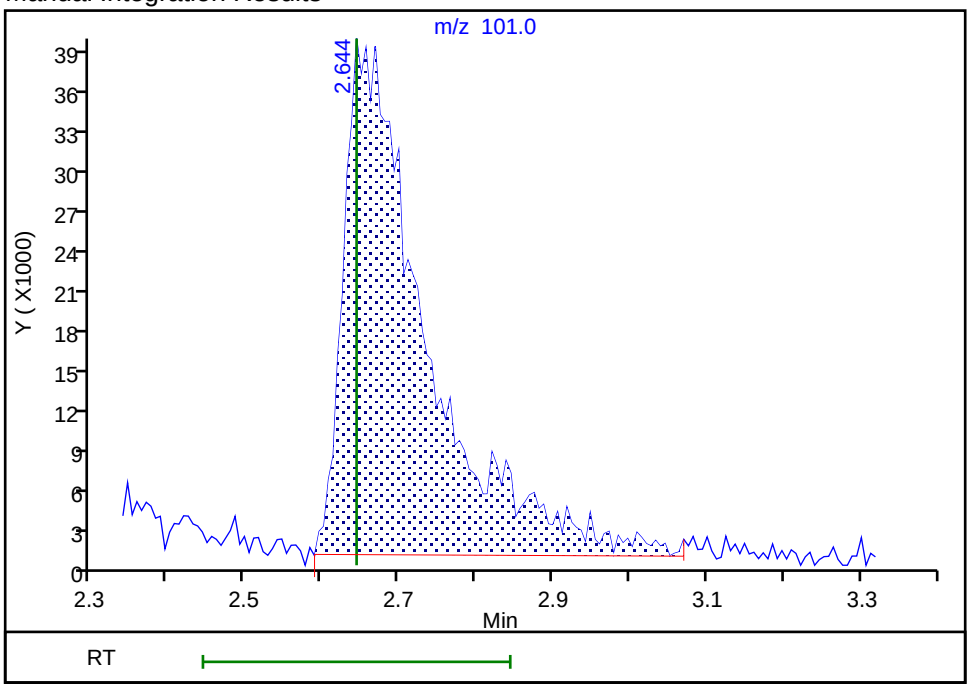
Processing Integration Results

RT: 2.64
Area: 264224
Amount: 24.229556
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 284922
Amount: 26.127580
Amount Units: ug/L



Reviewer: moffata, 18-Jun-2018 13:47:53
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

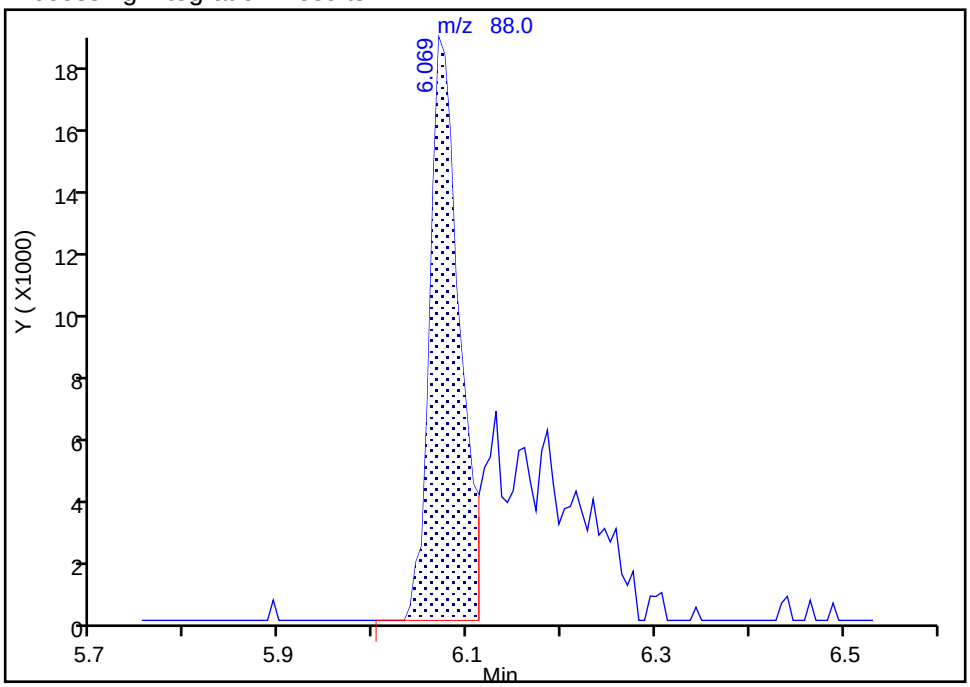
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0661.D
Injection Date: 18-Jun-2018 07:53:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

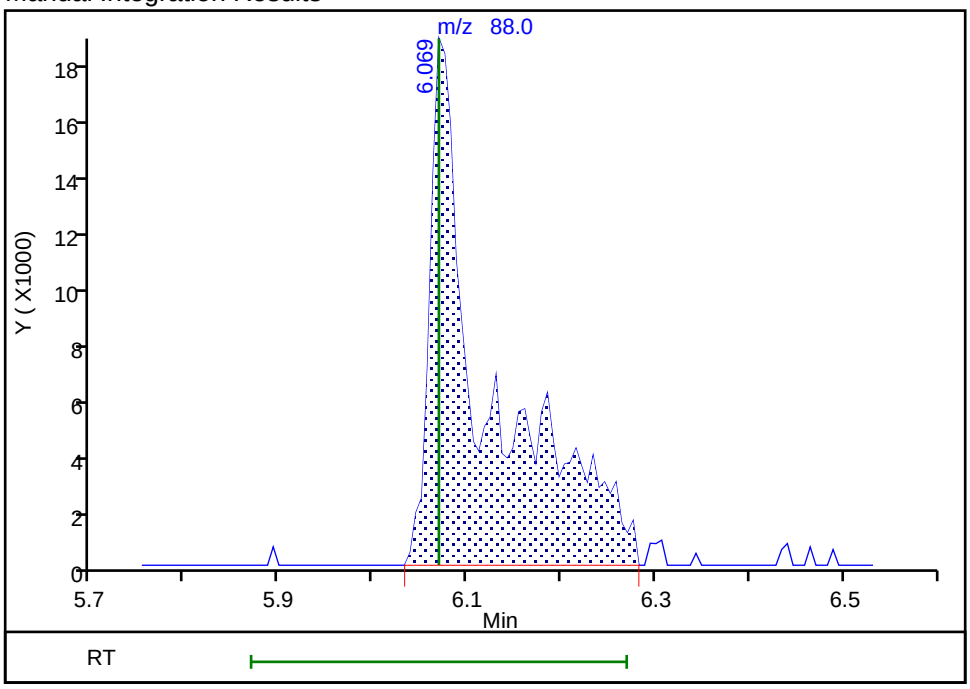
Processing Integration Results

RT: 6.07
Area: 39576
Amount: 214.1036
Amount Units: ug/L



Manual Integration Results

RT: 6.07
Area: 76112
Amount: 411.7611
Amount Units: ug/L



Reviewer: moffata, 18-Jun-2018 13:48:11
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420526/3 Calibration Date: 06/20/2018 08:19

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0764.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.501	1.409	0.1000	23.5	25.0	-6.1	50.0
Chloromethane	Ave	2.075	2.108	0.1000	25.4	25.0	1.6	20.0
Vinyl chloride	Ave	1.740	1.669	0.1000	24.0	25.0	-4.1	20.0
Butadiene	Ave	1.776	2.009		28.3	25.0	13.1	20.0
Bromomethane	Ave	0.9578	0.9373	0.1000	24.5	25.0	-2.1	50.0
Chloroethane	Ave	0.8778	0.9217	0.1000	26.2	25.0	5.0	50.0
Trichlorofluoromethane	Ave	1.981	2.228	0.1000	28.1	25.0	12.5	20.0
Dichlorofluoromethane	Ave	2.163	2.208		25.5	25.0	2.1	20.0
Ethyl ether	Ave	1.575	1.584		25.1	25.0	0.6	20.0
Acrolein	Ave	0.2785	0.3099		139	125	11.3	50.0
1,1-Dichloroethene	Ave	1.302	1.283	0.1000	24.6	25.0	-1.4	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.183	1.352	0.1000	28.6	25.0	14.3	20.0
Acetone	Ave	0.5014	0.9027	0.1000	225	125	80.0*	50.0
Iodomethane	Ave	2.394	2.613		27.3	25.0	9.2	20.0
Carbon disulfide	Ave	4.017	3.978	0.1000	24.8	25.0	-1.0	20.0
Allyl chloride	Ave	2.835	3.030		26.7	25.0	6.9	20.0
Methyl acetate	Ave	1.742	1.757	0.1000	50.4	50.0	0.8	50.0
Methylene Chloride	Lin1		1.499	0.1000	23.6	25.0	-5.7	20.0
2-Methyl-2-propanol	Ave	0.1186	0.1370		289	250	15.5	50.0
Methyl tert-butyl ether	Ave	4.841	4.521	0.1000	23.3	25.0	-6.6	20.0
trans-1,2-Dichloroethene	Ave	1.537	1.423	0.1000	23.2	25.0	-7.4	20.0
Acrylonitrile	Ave	0.8074	0.8423		261	250	4.3	20.0
Hexane	Ave	2.407	2.774		28.8	25.0	15.3	20.0
1,1-Dichloroethane	Ave	2.889	2.981	0.2000	25.8	25.0	3.2	20.0
Vinyl acetate	Ave	3.207	3.889		60.6	50.0	21.3*	20.0
2,2-Dichloropropane	Ave	1.961	2.169		27.6	25.0	10.6	20.0
cis-1,2-Dichloroethene	Ave	1.685	1.658	0.1000	24.6	25.0	-1.6	20.0
2-Butanone (MEK)	Ave	0.9190	1.184	0.1000	161	125	28.9*	20.0
Chlorobromomethane	Ave	0.8657	0.8604		24.8	25.0	-0.6	20.0
Tetrahydrofuran	Ave	0.7097	0.7295		51.4	50.0	2.8	20.0
Chloroform	Ave	2.676	2.617	0.2000	24.4	25.0	-2.2	20.0
1,1,1-Trichloroethane	Ave	2.231	2.280	0.1000	25.5	25.0	2.2	20.0
Cyclohexane	Ave	2.675	3.123	0.1000	29.2	25.0	16.7	20.0
Carbon tetrachloride	Ave	1.896	1.821	0.1000	24.0	25.0	-3.9	20.0
1,1-Dichloropropene	Ave	1.954	1.957		25.0	25.0	0.2	20.0
Isobutyl alcohol	Ave	0.0993	0.0800		504	625	-19.4	50.0
Benzene	Ave	5.704	5.501	0.5000	24.1	25.0	-3.6	20.0
1,2-Dichloroethane	Ave	2.561	2.702	0.1000	26.4	25.0	5.5	20.0
n-Heptane	Ave	2.437	3.089		31.7	25.0	26.7*	20.0
Trichloroethene	Ave	1.549	1.543	0.2000	24.9	25.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420526/3 Calibration Date: 06/20/2018 08:19

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0764.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.455	2.627	0.1000	26.7	25.0	7.0	20.0
1,2-Dichloropropane	Ave	1.550	1.511	0.1000	24.4	25.0	-2.5	20.0
Dibromomethane	Ave	1.029	1.011	0.1000	24.6	25.0	-1.7	20.0
1,4-Dioxane	Ave	0.0051	0.0046		457	500	-8.5	50.0
Bromodichloromethane	Ave	1.911	1.822	0.2000	23.8	25.0	-4.7	20.0
2-Chloroethyl vinyl ether	Ave	1.057	1.098		26.0	25.0	3.9	20.0
cis-1,3-Dichloropropene	Ave	2.198	2.136	0.2000	24.3	25.0	-2.8	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.1998	0.2131	0.1000	133	125	6.7	20.0
Toluene	Ave	0.9635	0.9631	0.4000	25.0	25.0	-0.0	20.0
trans-1,3-Dichloropropene	Ave	0.5162	0.5189	0.1000	25.1	25.0	0.5	20.0
Ethyl methacrylate	Ave	0.4744	0.4266		22.5	25.0	-10.1	20.0
1,1,2-Trichloroethane	Ave	0.2733	0.2795	0.1000	25.6	25.0	2.3	20.0
Tetrachloroethene	Ave	0.4224	0.4471	0.2000	26.5	25.0	5.8	20.0
1,3-Dichloropropane	Ave	0.5881	0.5694		24.2	25.0	-3.2	20.0
2-Hexanone	Ave	0.3685	0.4640	0.1000	157	125	25.9*	20.0
Dibromochloromethane	Ave	0.3866	0.3120	0.1000	20.2	25.0	-19.3	20.0
1,2-Dibromoethane	Ave	0.3596	0.3641		25.3	25.0	1.3	20.0
Chlorobenzene	Ave	1.096	1.112	0.5000	25.4	25.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3977	0.3671		23.1	25.0	-7.7	20.0
Ethylbenzene	Ave	1.780	1.794	0.1000	25.2	25.0	0.8	20.0
m,p-Xylene	Ave	0.6775	0.7163	0.1000	26.4	25.0	5.7	20.0
o-Xylene	Ave	0.7048	0.7093	0.3000	25.2	25.0	0.7	20.0
Styrene	Ave	1.136	1.192	0.3000	26.2	25.0	4.9	20.0
Bromoform	Ave	0.2496	0.1678	0.1000	16.8	25.0	-32.8	50.0
Isopropylbenzene	Ave	3.585	3.644	0.1000	25.4	25.0	1.6	20.0
Bromobenzene	Ave	0.9306	0.9657		25.9	25.0	3.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9491	0.8849	0.3000	23.3	25.0	-6.8	20.0
1,2,3-Trichloropropane	Ave	0.3181	0.2972		23.4	25.0	-6.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3527	0.2144		15.2	25.0	-39.2	50.0
N-Propylbenzene	Ave	4.082	4.156		25.5	25.0	1.8	20.0
2-Chlorotoluene	Ave	0.8487	0.8767		25.8	25.0	3.3	20.0
1,3,5-Trimethylbenzene	Ave	2.889	3.022		26.2	25.0	4.6	20.0
4-Chlorotoluene	Ave	2.723	2.871		26.4	25.0	5.4	20.0
tert-Butylbenzene	Ave	0.6952	0.7371		26.5	25.0	6.0	20.0
1,2,4-Trimethylbenzene	Ave	3.017	3.122		25.9	25.0	3.5	20.0
sec-Butylbenzene	Ave	3.780	3.961		26.2	25.0	4.8	20.0
1,3-Dichlorobenzene	Ave	1.736	1.792	0.6000	25.8	25.0	3.2	20.0
4-Isopropyltoluene	Ave	3.260	3.462		26.5	25.0	6.2	20.0
1,4-Dichlorobenzene	Ave	1.748	1.830	0.5000	26.2	25.0	4.7	20.0
n-Butylbenzene	Ave	2.898	3.073		26.5	25.0	6.0	20.0
1,2-Dichlorobenzene	Ave	1.681	1.725	0.4000	25.6	25.0	2.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Lab Sample ID: CCVIS 480-420526/3 Calibration Date: 06/20/2018 08:19

Instrument ID: HP5973N Calib Start Date: 06/15/2018 13:52

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/15/2018 17:01

Lab File ID: N0764.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1805	0.1520	0.0500	21.1	25.0	-15.8	50.0
1,2,4-Trichlorobenzene	Ave	1.123	1.176	0.2000	26.2	25.0	4.7	20.0
Hexachlorobutadiene	Ave	0.5235	0.5418		25.9	25.0	3.5	20.0
Naphthalene	Ave	3.274	3.125		23.9	25.0	-4.6	20.0
1,2,3-Trichlorobenzene	Ave	1.032	1.057		25.6	25.0	2.4	20.0
Dibromofluoromethane (Surr)	Ave	1.429	1.413		24.7	25.0	-1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.780	1.873		26.3	25.0	5.2	20.0
Toluene-d8 (Surr)	Ave	1.319	1.278		24.2	25.0	-3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4117	0.4188		25.4	25.0	1.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0764.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 20-Jun-2018 08:19:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0072463-003
Operator ID: AM Instrument ID: HP5973N
Sublist: chrom-N-8260*sub38

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2018 08:37:24 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: moffata Date: 20-Jun-2018 08:37:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.358	5.358	0.000	98	213014	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	88	803514	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	95	411367	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.761	0.000	66	301082	25.0	24.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	398904	25.0	26.3	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1027281	25.0	24.2	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	336519	25.0	25.4	
11 Dichlorodifluoromethane	85	1.300	1.300	0.000	97	300048	25.0	23.5	
13 Chloromethane	50	1.464	1.464	0.000	99	449075	25.0	25.4	
14 Vinyl chloride	62	1.549	1.549	0.000	97	355529	25.0	24.0	
144 Butadiene	54	1.580	1.580	0.000	96	427865	25.0	28.3	
15 Bromomethane	94	1.860	1.860	0.000	93	199652	25.0	24.5	
16 Chloroethane	64	1.939	1.939	0.000	96	196329	25.0	26.2	
18 Trichlorofluoromethane	101	2.146	2.146	0.000	73	474629	25.0	28.1	
17 Dichlorofluoromethane	67	2.152	2.152	0.000	93	470431	25.0	25.5	
19 Ethyl ether	59	2.431	2.431	0.000	98	337384	25.0	25.1	
20 Acrolein	56	2.584	2.584	0.000	97	330096	125.0	139.1	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	94	273341	25.0	24.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.657	2.657	0.000	90	288005	25.0	28.6	M
23 Acetone	43	2.730	2.730	0.000	97	961389	125.0	225.1	
24 Iodomethane	142	2.778	2.778	0.000	100	556537	25.0	27.3	
25 Carbon disulfide	76	2.827	2.827	0.000	97	847409	25.0	24.8	
27 3-Chloro-1-propene	41	2.991	2.991	0.000	83	645415	25.0	26.7	
28 Methyl acetate	43	3.028	3.028	0.000	100	748334	50.0	50.4	
30 Methylene Chloride	84	3.119	3.119	0.000	92	319214	25.0	23.6	
31 2-Methyl-2-propanol	59	3.277	3.277	0.000	95	291822	250.0	288.7	
32 Methyl tert-butyl ether	73	3.350	3.350	0.000	97	962929	25.0	23.3	
33 trans-1,2-Dichloroethene	96	3.362	3.362	0.000	92	303097	25.0	23.2	
34 Acrylonitrile	53	3.380	3.380	0.000	97	1794290	250.0	260.8	
35 Hexane	57	3.575	3.575	0.000	94	590894	25.0	28.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.764	3.764	0.000	97	634942	25.0	25.8	
39 Vinyl acetate	43	3.818	3.818	0.000	98	1656616	50.0	60.6	
42 2,2-Dichloropropane	77	4.281	4.281	0.000	86	461979	25.0	27.6	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	86	353100	25.0	24.6	
44 2-Butanone (MEK)	43	4.330	4.330	0.000	97	1261208	125.0	161.1	
47 Chlorobromomethane	128	4.536	4.536	0.000	91	183266	25.0	24.8	
49 Tetrahydrofuran	42	4.567	4.567	0.000	91	310802	50.0	51.4	
50 Chloroform	83	4.609	4.609	0.000	95	557351	25.0	24.4	
51 1,1,1-Trichloroethane	97	4.743	4.743	0.000	96	485605	25.0	25.5	
52 Cyclohexane	56	4.768	4.768	0.000	98	665270	25.0	29.2	
53 Carbon tetrachloride	117	4.889	4.889	0.000	95	387948	25.0	24.0	
54 1,1-Dichloropropene	75	4.895	4.895	0.000	85	416935	25.0	25.0	
56 Isobutyl alcohol	43	5.084	5.084	0.000	85	426003	625.0	503.6	
55 Benzene	78	5.090	5.090	0.000	96	1171688	25.0	24.1	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	96	575605	25.0	26.4	
59 n-Heptane	43	5.303	5.303	0.000	97	658004	25.0	31.7	
60 Trichloroethene	95	5.704	5.704	0.000	93	328655	25.0	24.9	
62 Methylcyclohexane	83	5.838	5.838	0.000	96	559504	25.0	26.7	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	82	321856	25.0	24.4	
64 Dibromomethane	93	6.057	6.057	0.000	94	215367	25.0	24.6	
66 1,4-Dioxane	88	6.076	6.076	0.000	63	74230	500.0	457.3	
67 Dichlorobromomethane	83	6.209	6.209	0.000	95	388030	25.0	23.8	
69 2-Chloroethyl vinyl ether	63	6.489	6.489	0.000	91	233807	25.0	26.0	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	85	455006	25.0	24.3	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	856219	125.0	133.4	
73 Toluene	92	6.933	6.933	0.000	97	773884	25.0	25.0	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	92	416919	25.0	25.1	
77 Ethyl methacrylate	69	7.256	7.256	0.000	92	342736	25.0	22.5	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	94	224562	25.0	25.6	
79 Tetrachloroethene	166	7.469	7.469	0.000	92	359218	25.0	26.5	
80 1,3-Dichloropropane	76	7.542	7.542	0.000	92	457506	25.0	24.2	
82 2-Hexanone	43	7.609	7.609	0.000	98	1864208	125.0	157.4	
83 Chlorodibromomethane	129	7.773	7.773	0.000	91	250686	25.0	20.2	
84 Ethylene Dibromide	107	7.882	7.882	0.000	99	292555	25.0	25.3	
85 Chlorobenzene	112	8.369	8.369	0.000	94	893136	25.0	25.4	
89 1,1,1,2-Tetrachloroethane	131	8.460	8.460	0.000	87	294956	25.0	23.1	
88 Ethylbenzene	91	8.472	8.472	0.000	98	1441363	25.0	25.2	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	575529	25.0	26.4	
91 o-Xylene	106	9.020	9.020	0.000	98	569964	25.0	25.2	
92 Styrene	104	9.044	9.044	0.000	95	957894	25.0	26.2	
93 Bromoform	173	9.275	9.275	0.000	94	134857	25.0	16.8	
95 Isopropylbenzene	105	9.409	9.409	0.000	97	1498880	25.0	25.4	
97 Bromobenzene	156	9.744	9.744	0.000	89	397256	25.0	25.9	
98 1,1,2,2-Tetrachloroethane	83	9.780	9.780	0.000	96	364017	25.0	23.3	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	92	122242	25.0	23.4	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	62	88204	25.0	15.2	
100 N-Propylbenzene	91	9.841	9.841	0.000	99	1709560	25.0	25.5	
102 2-Chlorotoluene	126	9.932	9.932	0.000	95	360651	25.0	25.8	
104 1,3,5-Trimethylbenzene	105	10.024	10.024	0.000	95	1243190	25.0	26.2	
105 4-Chlorotoluene	91	10.048	10.048	0.000	97	1181013	25.0	26.4	
106 tert-Butylbenzene	134	10.340	10.340	0.000	95	303211	25.0	26.5	
108 1,2,4-Trimethylbenzene	105	10.395	10.395	0.000	98	1284261	25.0	25.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.553	10.553	0.000	95	1629358	25.0	26.2	
110 1,3-Dichlorobenzene	146	10.675	10.675	0.000	98	737184	25.0	25.8	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	1424171	25.0	26.5	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	95	752934	25.0	26.2	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	1264254	25.0	26.5	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	97	709446	25.0	25.6	
117 1,2-Dibromo-3-Chloropropan	75	11.831	11.831	0.000	75	62522	25.0	21.1	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	483952	25.0	26.2	
120 Hexachlorobutadiene	225	12.658	12.658	0.000	96	222862	25.0	25.9	
121 Naphthalene	128	12.737	12.737	0.000	98	1285552	25.0	23.9	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	95	434747	25.0	25.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	12.50	Units: uL	
GAS CORP mix_00287	Amount Added:	12.50	Units: uL	
N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

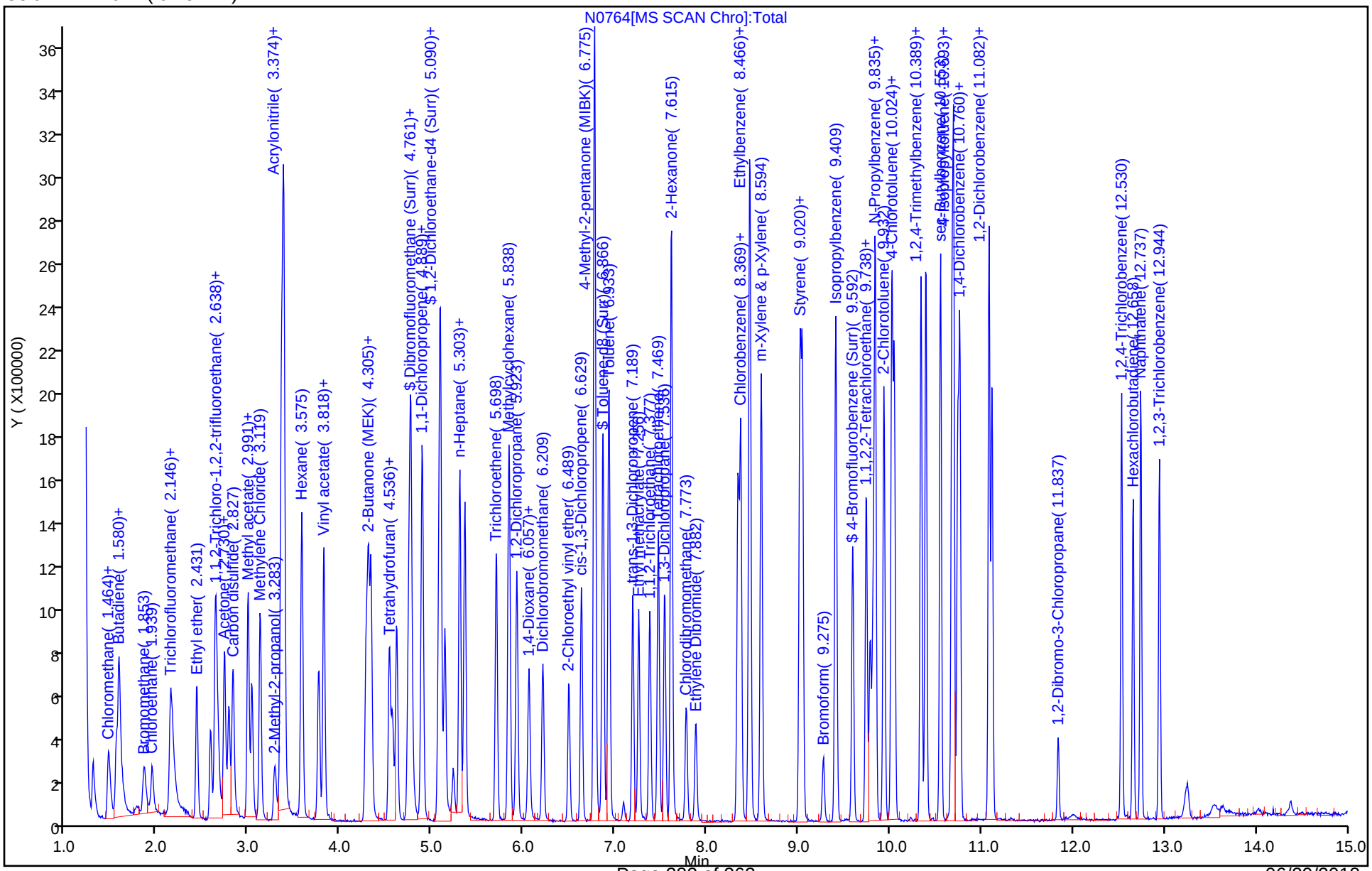
Report Date: 20-Jun-2018 08:37:25 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0764.D

Injection Date:	20-Jun-2018 08:19:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

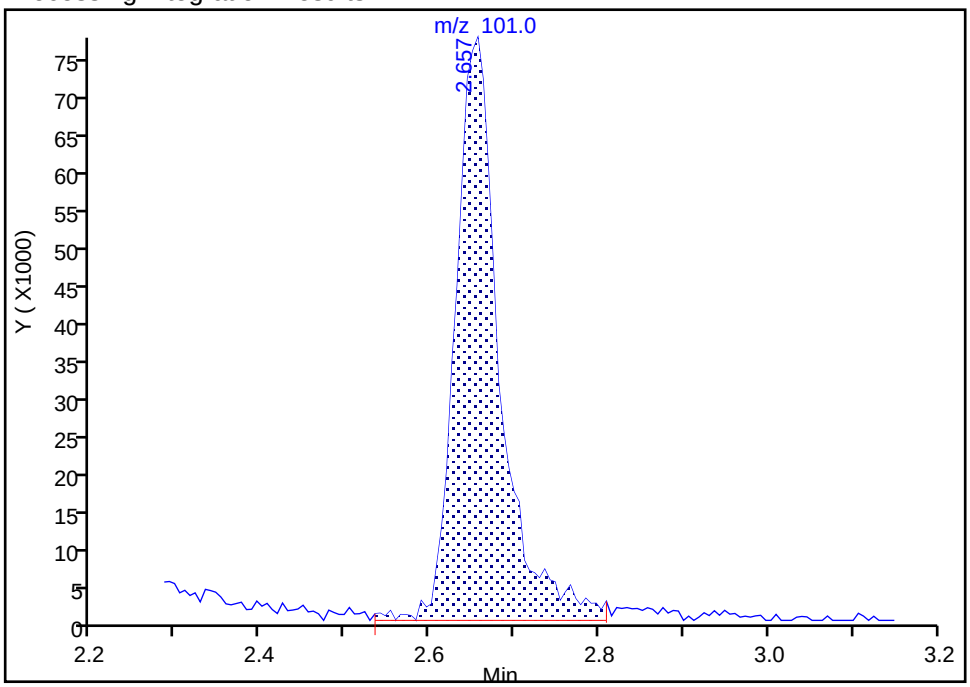
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0764.D
Injection Date: 20-Jun-2018 08:19:30 Instrument ID: HP5973N
Lims ID: CCVIS
Client ID:
Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

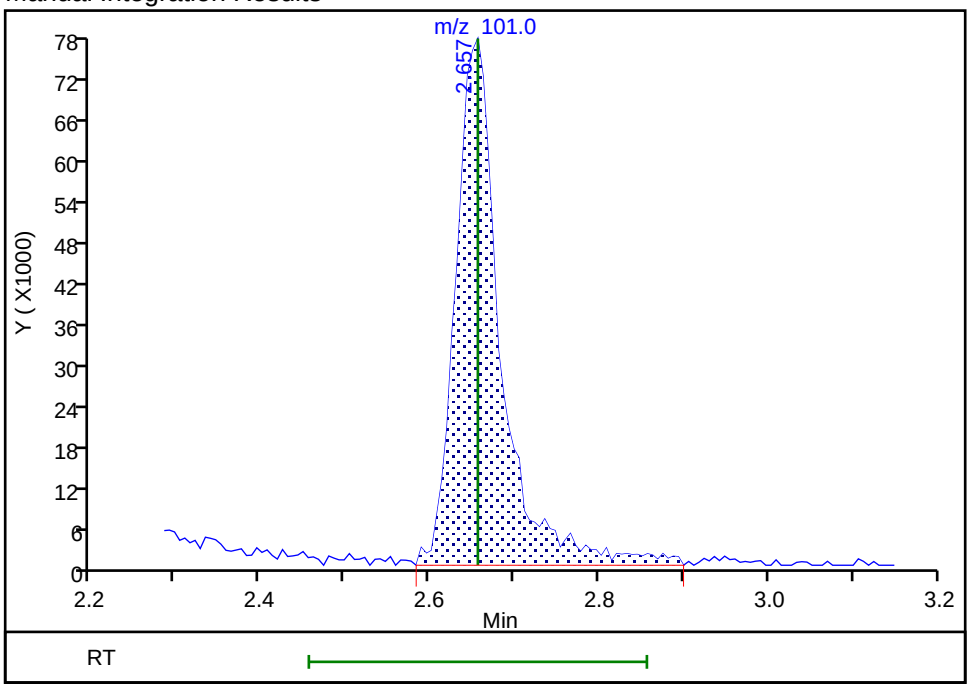
Processing Integration Results

RT: 2.66
Area: 283077
Amount: 28.081112
Amount Units: ug/L



Manual Integration Results

RT: 2.66
Area: 288005
Amount: 28.569968
Amount Units: ug/L



Reviewer: moffata, 20-Jun-2018 08:36:38
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-May-2018 12:17:30	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0071332-004				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	09-May-2018 10:46:48	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK007				
First Level Reviewer: cwiklinc		Date:	09-May-2018 10:46:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.339	5.339	0.000	0	186108	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

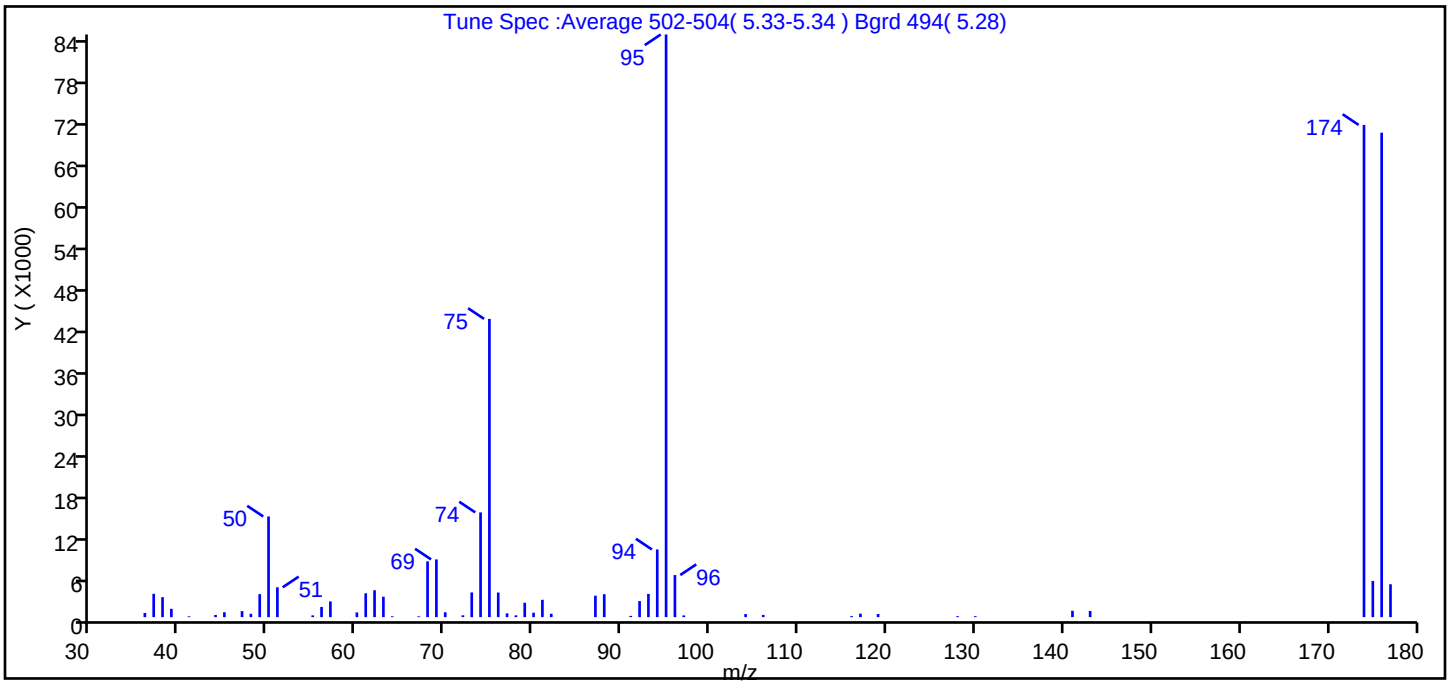
BFB_WRK_00069 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D
Injection Date: 08-May-2018 12:17:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.5
175	5 to 9% of m/z 174	6.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.1 (98.4)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 08-May-2018 12:17:30
Spectrum: Tune Spec :Average 502-504(5.33-5.34) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	607	60.00	688	78.00	263	106.00	324
37.00	3399	61.00	3473	79.00	2093	116.00	151
38.00	2910	62.00	3915	80.00	645	117.00	512
39.00	1213	63.00	2967	81.00	2524	119.00	457
41.00	122	64.00	127	82.00	500	128.00	139
44.00	318	67.00	117	87.00	3123	130.00	138
45.00	714	68.00	8121	88.00	3343	141.00	927
47.00	876	69.00	8405	91.00	184	143.00	896
48.00	490	70.00	708	92.00	2334	174.00	71664
49.00	3351	72.00	269	93.00	3379	175.00	5278
50.00	14657	73.00	3596	94.00	9852	176.00	70536
51.00	4347	74.00	15251	95.00	84832	177.00	4789
55.00	261	75.00	43424	96.00	6131		
56.00	1488	76.00	3582	97.00	249		
57.00	2289	77.00	552	104.00	445		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2855.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 16-Jun-2018 07:38:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0072382-002
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2018 07:36:04 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: moffata Date: 16-Jun-2018 07:36:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.333	5.333	0.000	0	152608	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

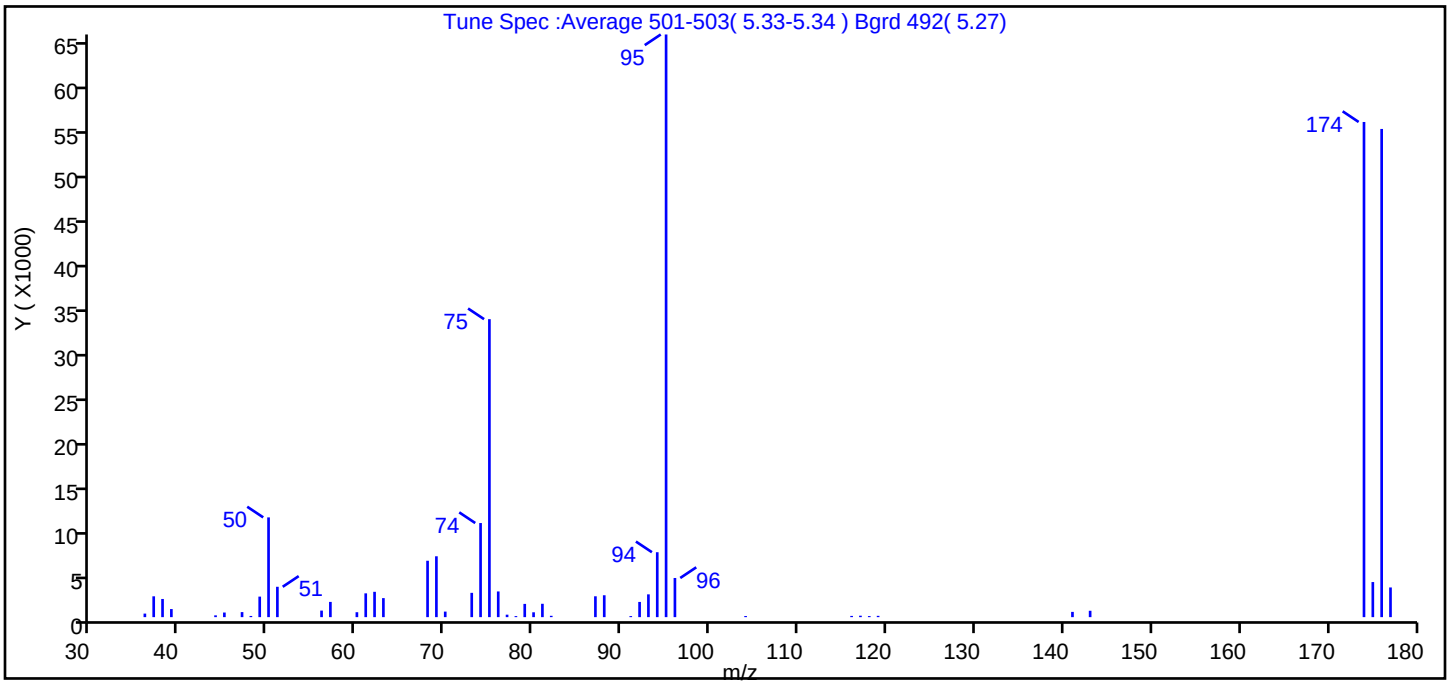
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2855.D
Injection Date: 16-Jun-2018 07:38:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	51.1
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.0
175	5 to 9% of m/z 174	6.0 (7.1)
176	Greater than 95% but less than 101% of m/z 174	83.8 (98.6)
177	5 to 9% of m/z 176	5.1 (6.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2855.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 16-Jun-2018 07:38:30
Spectrum: Tune Spec :Average 501-503(5.33-5.34) Bgrd 492(5.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	399	60.00	555	79.00	1491	116.00	139
37.00	2345	61.00	2678	80.00	547	117.00	162
38.00	2045	62.00	2851	81.00	1504	118.00	120
39.00	910	63.00	2141	82.00	151	119.00	147
44.00	202	68.00	6346	87.00	2348	141.00	592
45.00	520	69.00	6850	88.00	2464	143.00	717
47.00	568	70.00	624	91.00	117	174.00	55728
48.00	134	73.00	2735	92.00	1712	175.00	3949
49.00	2311	74.00	10592	93.00	2565	176.00	54944
50.00	11227	75.00	33536	94.00	7307	177.00	3342
51.00	3417	76.00	2892	95.00	65576		
56.00	738	77.00	278	96.00	4407		
57.00	1715	78.00	119	104.00	126		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0607.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 15-Jun-2018 12:58:30 ALS Bottle#: 1 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0072372-005
Operator ID: LH Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 12:44:38 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK052

First Level Reviewer: HillL Date: 15-Jun-2018 13:08:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.242	4.242	0.000	90	342908	NR	NR	7

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection

Reagents:

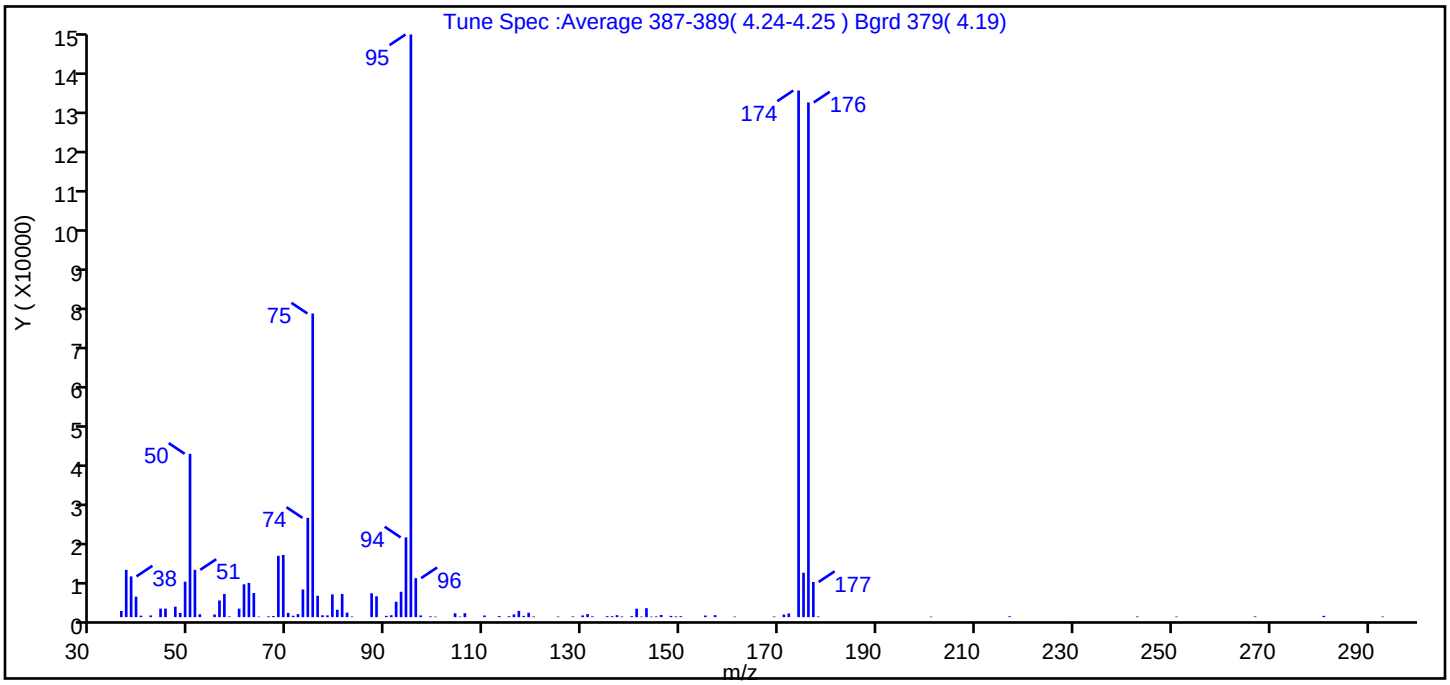
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0607.D
Injection Date: 15-Jun-2018 12:58:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: LH ALS Bottle#: 1 Worklist Smp#: 5
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	28.0
75	30 to 60% of m/z 95	52.1
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	90.4
175	5 to 9% of m/z 174	7.6 (8.4)
176	Greater than 95% but less than 101% of m/z 174	88.3 (97.7)
177	5 to 9% of m/z 176	6.0 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0607.D\N-8260.rslt\spectra.d
Injection Date: 15-Jun-2018 12:58:30
Spectrum: Tune Spec :Average 387-389(4.24-4.25) Bgrd 379(4.19)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1524	69.00	15405	100.00	133	145.00	183
37.00	11702	70.00	1055	104.00	954	146.00	550
38.00	10079	71.00	344	105.00	137	148.00	309
39.00	5054	72.00	756	106.00	974	149.00	182
40.00	367	73.00	6840	110.00	406	150.00	228
42.00	422	74.00	24568	113.00	263	155.00	400
44.00	2111	75.00	75144	115.00	221	157.00	495
45.00	2120	76.00	5289	116.00	658	161.00	149
47.00	2579	77.00	457	117.00	1545	169.00	159
48.00	1036	78.00	441	118.00	303	171.00	640
49.00	8779	79.00	5642	119.00	1073	172.00	917
50.00	40424	80.00	1832	120.00	176	174.00	130320
51.00	11706	81.00	5737	125.00	153	175.00	10993
52.00	711	82.00	1123	128.00	179	176.00	127376
55.00	653	83.00	152	130.00	429	177.00	8705
56.00	4135	87.00	5917	131.00	748	178.00	166
57.00	5726	88.00	5155	132.00	189	201.00	137
58.00	169	90.00	325	135.00	238	217.00	208
60.00	2098	91.00	471	136.00	231	243.00	165
61.00	8127	92.00	3810	137.00	487	251.00	145
62.00	8471	93.00	6277	138.00	170	267.00	175
63.00	5974	94.00	19736	140.00	242	281.00	325
64.00	140	95.00	144192	141.00	2093	293.00	154
66.00	200	96.00	9651	142.00	135		
67.00	264	97.00	429	143.00	2218		
68.00	15175	99.00	193	144.00	139		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0660.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Jun-2018 07:30:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0072406-002
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 16:39:52 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: milligana Date: 18-Jun-2018 16:39:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	4.199	4.242	-0.043	87	600876	NR	NR	7a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

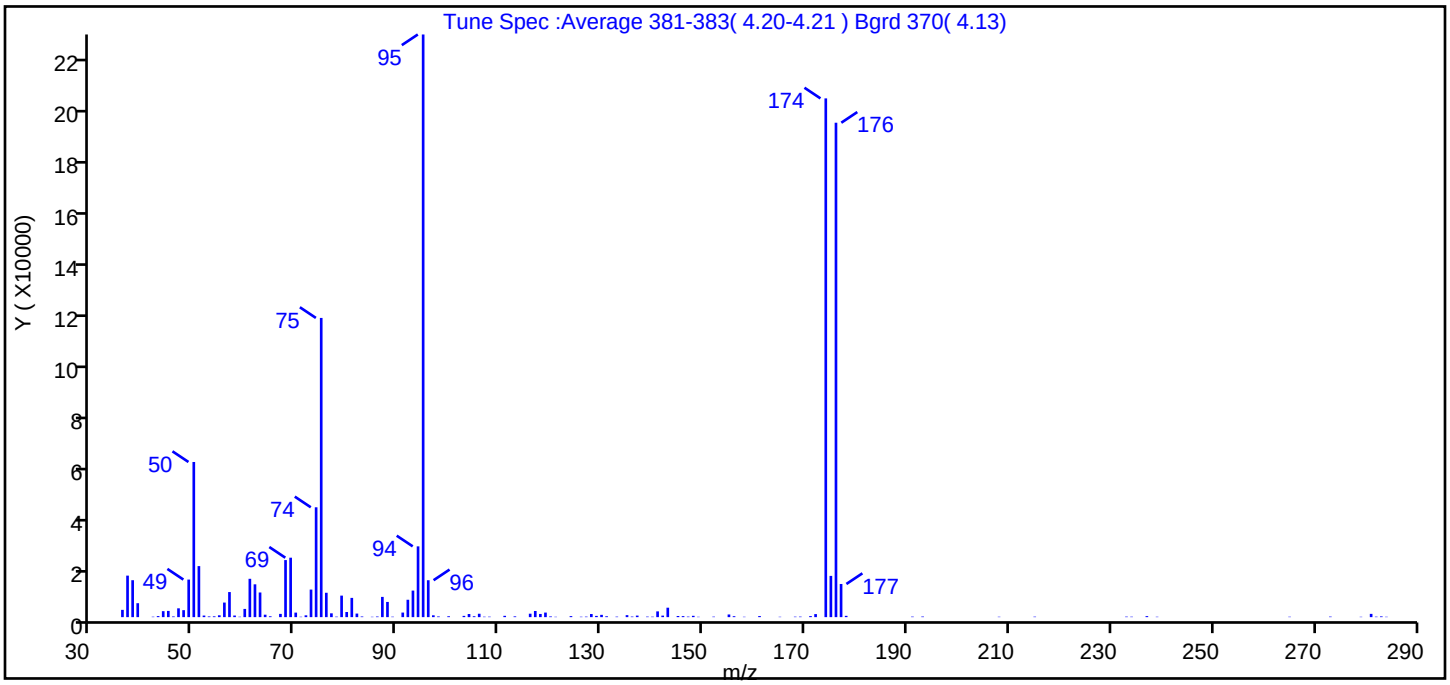
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0660.D
Injection Date: 18-Jun-2018 07:30:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	26.6
75	30 to 60% of m/z 95	51.4
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	89.0
175	5 to 9% of m/z 174	7.1 (8.0)
176	Greater than 95% but less than 101% of m/z 174	84.9 (95.3)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0660.D\N-8260.rslt\spectra.d
Injection Date: 18-Jun-2018 07:30:30
Spectrum: Tune Spec :Average 381-383(4.20-4.21) Bgrd 370(4.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 124

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2875	70.00	1787	106.00	1342	149.00	138
37.00	16383	71.00	155	107.00	173	152.00	195
38.00	14573	72.00	715	108.00	187	155.00	1052
39.00	5502	73.00	10879	111.00	520	156.00	368
42.00	171	74.00	43344	113.00	303	158.00	146
43.00	414	75.00	118056	116.00	1359	161.00	425
44.00	2359	76.00	9618	117.00	2428	165.00	145
45.00	2459	77.00	1510	118.00	1255	168.00	186
46.00	269	78.00	194	119.00	1803	169.00	204
47.00	3481	79.00	8495	120.00	278	171.00	409
48.00	2756	80.00	2022	121.00	139	172.00	1206
49.00	14820	81.00	7599	124.00	406	174.00	204672
50.00	61216	82.00	1410	126.00	167	175.00	16276
51.00	20136	83.00	257	127.00	204	176.00	195072
52.00	624	85.00	142	128.00	1229	177.00	13083
53.00	283	86.00	247	129.00	490	178.00	514
54.00	317	87.00	7988	130.00	907	191.00	204
55.00	726	88.00	5996	131.00	340	193.00	236
56.00	5753	89.00	176	133.00	199	208.00	157
57.00	9896	91.00	1808	135.00	783	215.00	189
58.00	636	92.00	6861	136.00	228	233.00	205
59.00	156	93.00	10479	137.00	612	234.00	176
60.00	3245	94.00	27928	139.00	211	237.00	401
61.00	15129	95.00	229888	140.00	186	239.00	156
62.00	12950	96.00	14564	141.00	2276	265.00	161
63.00	9728	97.00	727	142.00	597	273.00	212
64.00	966	98.00	270	143.00	3726	279.00	141
65.00	330	100.00	346	145.00	451	281.00	1289
67.00	1284	103.00	499	146.00	400	282.00	185
68.00	22512	104.00	1234	147.00	213	283.00	297
69.00	23456	105.00	357	148.00	522	284.00	147

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0763.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Jun-2018 07:55:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0072463-002
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2018 08:04:07 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: moffata Date: 20-Jun-2018 08:04:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 4 BFB	95	2.903	2.903	0.000	93	650676	NR	NR	7a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
7 - Failed Limit of Detection
Review Flags
a - User Assigned ID

Reagents:

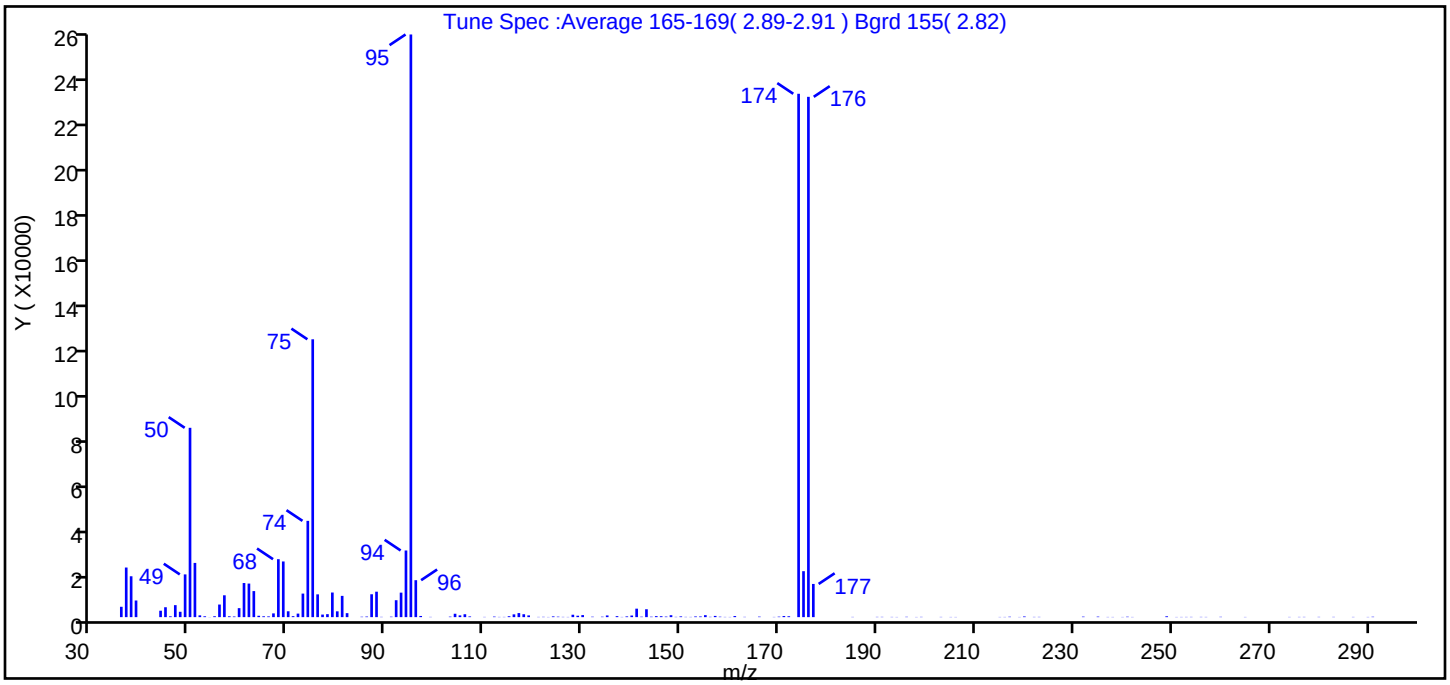
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0763.D
Injection Date: 20-Jun-2018 07:55:30 Instrument ID: HP5973N
Lims ID: BFB
Client ID:
Operator ID: AM ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 4 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	32.5
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	89.8
175	5 to 9% of m/z 174	7.9 (8.8)
176	Greater than 95% but less than 101% of m/z 174	89.3 (99.4)
177	5 to 9% of m/z 176	5.7 (6.4)

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0763.D\N-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 07:55:30
Spectrum: Tune Spec :Average 165-169(2.89-2.91) Bgrd 155(2.82)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 160

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4561	80.00	2563	132.00	192	191.00	121
37.00	21848	81.00	9365	134.00	196	193.00	100
38.00	18000	82.00	1756	135.00	742	194.00	81
39.00	7331	85.00	179	137.00	438	196.00	153
44.00	2829	86.00	259	138.00	92	198.00	83
45.00	4361	87.00	10079	139.00	330	199.00	121
46.00	356	88.00	11208	140.00	707	203.00	103
47.00	5283	89.00	120	141.00	3731	205.00	86
48.00	2361	91.00	208	142.00	205	206.00	82
49.00	18824	92.00	7453	143.00	3481	215.00	87
50.00	83376	93.00	10789	144.00	199	216.00	89
51.00	23880	94.00	29352	145.00	446	217.00	187
52.00	785	95.00	256576	146.00	405	219.00	82
53.00	375	96.00	16273	147.00	251	220.00	289
54.00	49	97.00	517	148.00	850	222.00	107
55.00	395	99.00	107	149.00	120	223.00	116
56.00	5549	103.00	225	150.00	329	232.00	222
57.00	9622	104.00	1493	151.00	113	235.00	233
58.00	370	105.00	772	152.00	100	237.00	91
59.00	282	106.00	1282	153.00	303	238.00	87
60.00	3961	107.00	306	154.00	291	240.00	84
61.00	15022	110.00	100	155.00	866	241.00	192
62.00	14784	112.00	243	156.00	140	242.00	87
63.00	11473	113.00	101	157.00	540	249.00	372
64.00	605	114.00	103	158.00	197	251.00	84
65.00	370	115.00	402	159.00	101	252.00	92
66.00	327	116.00	1228	160.00	87	253.00	101
67.00	1656	117.00	1788	161.00	480	254.00	111
68.00	25520	118.00	1284	163.00	119	256.00	112
69.00	24520	119.00	764	166.00	227	257.00	95
70.00	2585	121.00	102	169.00	94	260.00	146
71.00	431	122.00	136	170.00	216	265.00	87
72.00	1559	123.00	83	171.00	484	274.00	95

Report Date: 20-Jun-2018 08:04:07 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0763.D\N-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 07:55:30
Spectrum: Tune Spec :Average 165-169(2.89-2.91) Bgrd 155(2.82)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 160

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	10372	124.00	328	172.00	388	276.00	103
74.00	42400	125.00	211	174.00	230464	277.00	109
75.00	122352	126.00	113	175.00	20240	280.00	117
76.00	10037	127.00	90	176.00	229120	283.00	113
77.00	1135	128.00	1061	177.00	14620	287.00	99
78.00	1313	129.00	626	185.00	102	290.00	88
79.00	10845	130.00	901	190.00	117	291.00	176

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-419967/2-A

Matrix: Solid | Lab File ID: F2861.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/16/2018 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
98-82-8	Isopropylbenzene	ND		5.0	0.75
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-419967/2-A

Matrix: Solid | Lab File ID: F2861.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/16/2018 10:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		64-126
460-00-4	4-Bromofluorobenzene (Surr)	94		72-126
2037-26-5	Toluene-d8 (Surr)	98		71-125
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2861.D
Lims ID: MB 480-419967/2-A
Client ID:
Sample Type: MB
Inject. Date: 16-Jun-2018 10:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB 480-419967/2-A
Misc. Info.: 480-0072382-007
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2018 11:52:49 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: moffata Date: 16-Jun-2018 11:53:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	276709	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	595571	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	534187	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.679	0.006	93	334935	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.953	0.007	97	225066	50.0	51.2	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1346392	50.0	49.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	434730	50.0	46.8	
10 Dichlorodifluoromethane	85		1.802					ND	
11 Chlorodifluoromethane	51		1.827					ND	
12 Chloromethane	50		1.985					ND	
13 Vinyl chloride	62		2.070					ND	
151 Butadiene	54		2.082					ND	
14 Bromomethane	94		2.356					ND	
15 Chloroethane	64		2.411					ND	
16 Dichlorofluoromethane	67		2.563					ND	
148 Ethanol	45		2.739					ND	
18 Ethyl ether	59		2.763					ND	
19 Propene oxide	58		2.861					ND	
20 Acrolein	56		2.922					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.952					ND	
22 1,1-Dichloroethene	96		2.976					ND	
23 Acetone	43		3.031					ND	
24 Isopropyl alcohol	45		3.116					ND	
25 Iodomethane	142		3.128					ND	
26 Carbon disulfide	76		3.183					ND	
28 3-Chloro-1-propene	41		3.244					ND	
27 Methyl acetate	43		3.244					ND	
29 Acetonitrile	40		3.281					ND	
31 2-Methyl-2-propanol	59		3.414					ND	
32 Methyl tert-butyl ether	73		3.506					ND	
34 trans-1,2-Dichloroethene	96		3.536					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
33 Acrylonitrile	53		3.548					ND	
35 Hexane	57		3.670					ND	U
71 Epichlorohydrin	57		3.670					ND	U
134 Halothane	117		3.822					ND	
36 Isopropyl ether	45		3.822					ND	
37 Vinyl acetate	43		3.846					ND	
39 1,1-Dichloroethane	63		3.858					ND	
38 1,1-Dimethoxyethane	75		3.895					ND	
40 2-Chloro-1,3-butadiene	53		3.913					ND	
41 Tert-butyl ethyl ether	59		4.096					ND	
44 2,2-Dichloropropane	77		4.290					ND	
42 Ethyl acetate	43		4.290					ND	
43 2-Butanone (MEK)	43		4.296					ND	
45 cis-1,2-Dichloroethene	96		4.303					ND	
46 Propionitrile	54		4.388					ND	
47 Methacrylonitrile	41		4.479					ND	
48 Chlorobromomethane	128		4.503					ND	
49 Tetrahydrofuran	42		4.528					ND	
50 Chloroform	83		4.540					ND	
51 1,1,1-Trichloroethane	97		4.680					ND	
52 Cyclohexane	56		4.704					ND	
54 1,1-Dichloropropene	75		4.795					ND	
55 Carbon tetrachloride	117		4.807					ND	
53 Isobutyl alcohol	43		4.868					ND	
147 t-Amyl alcohol	59		4.941					ND	
152 Isooctane	57		4.947					ND	
57 Benzene	78		4.978					ND	
56 Tert-amyl methyl ether	73		5.002					ND	
59 n-Heptane	43		5.075					ND	
1 1,4-Difluorobenzene	114		5.264					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.386					ND	
60 n-Butanol	56		5.404					ND	
62 Trichloroethene	95		5.495					ND	
137 Ethyl acrylate	55		5.568					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.568					ND	
64 Methylcyclohexane	83		5.629					ND	
65 1,2-Dichloropropane	63		5.714					ND	
63 Methyl methacrylate	41		5.732					ND	
66 1,4-Dioxane	88		5.823					ND	
67 Dibromomethane	93		5.842					ND	
68 Dichlorobromomethane	83		5.951					ND	
69 2-Chloroethyl vinyl ether	63		6.164					ND	
70 2-Nitropropane	43		6.164					ND	
72 cis-1,3-Dichloropropene	75		6.328					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438					ND	
74 Toluene	92		6.620					ND	
76 2-Methylthiophene	97		6.754					ND	
77 trans-1,3-Dichloropropene	75		6.845					ND	
75 Ethyl methacrylate	69		6.852					ND	
78 3-Methylthiophene	97		6.906					ND	
79 1,1,2-Trichloroethane	83		7.040					ND	
81 Tetrachloroethene	166		7.137					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
82 1,3-Dichloropropane	76		7.204					ND	
80 2-Hexanone	43		7.223					ND	
155 n-Butyl acetate	43		7.302					ND	
83 Chlorodibromomethane	129		7.442					ND	
84 Ethylene Dibromide	107		7.569					ND	
146 1-Chlorohexane	55		7.922					ND	
85 3-Chlorobenzotrifluoride	180		7.928					ND	
86 4-Chlorobenzotrifluoride	180		7.983					ND	
87 Chlorobenzene	112		8.020					ND	
88 Ethylbenzene	91		8.087					ND	
89 1,1,1,2-Tetrachloroethane	131		8.099					ND	
90 m-Xylene & p-Xylene	106		8.202					ND	
91 o-Xylene	106		8.628					ND	
92 Styrene	104		8.652					ND	
93 2-Chlorobenzotrifluoride	180		8.908					ND	
95 Bromoform	173		8.920					ND	
94 Isopropylbenzene	105		8.999					ND	
96 Cyclohexanone	55		9.200					ND	
97 1,1,2,2-Tetrachloroethane	83		9.388					ND	
101 Bromobenzene	156		9.388					ND	
98 trans-1,4-Dichloro-2-buten	53		9.431					ND	
100 1,2,3-Trichloropropane	110		9.437					ND	
99 N-Propylbenzene	91		9.437					ND	
103 2-Chlorotoluene	126		9.565					ND	
102 1,3,5-Trimethylbenzene	105		9.607					ND	
104 3-Chlorotoluene	126		9.626					ND	
105 4-Chlorotoluene	126		9.668					ND	
106 tert-Butylbenzene	134		9.930					ND	
107 1,2,4-Trimethylbenzene	105		9.985					ND	
108 Pentachloroethane	167		10.009					ND	
109 sec-Butylbenzene	105		10.137					ND	
110 4-Isopropyltoluene	119		10.271					ND	
111 1,3-Dichlorobenzene	146		10.295					ND	
114 Dicyclopentadiene	66		10.374					ND	U
113 1,4-Dichlorobenzene	146		10.380					ND	
112 1,2,3-Trimethylbenzene	105		10.392					ND	
150 Benzyl chloride	126		10.514					ND	
115 n-Butylbenzene	91		10.648					ND	
116 1,2-Dichlorobenzene	146		10.727					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414					ND	
118 1,3,5-Trichlorobenzene	180		11.542					ND	
119 1,2,4-Trichlorobenzene	180		12.053					ND	
120 Hexachlorobutadiene	225		12.144					ND	
121 Naphthalene	128		12.266					ND	
122 1,2,3-Trichlorobenzene	180		12.473					ND	
149 2-Methylnaphthalene	142		13.276					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

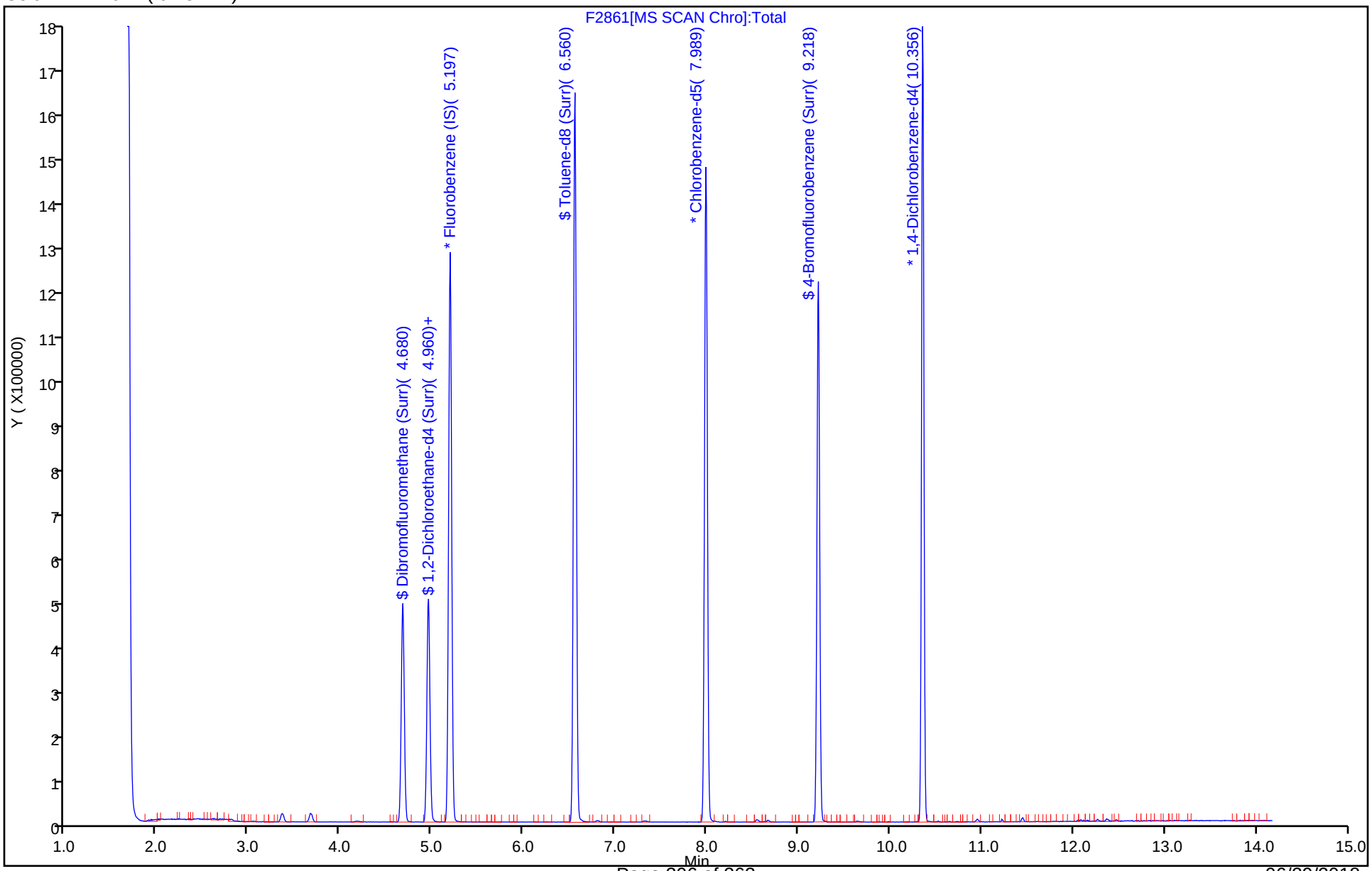
Report Date: 16-Jun-2018 11:53:01 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2861.D

Injection Date:	16-Jun-2018 10:52:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	MB 480-419967/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-420017/2-A

Matrix: Solid | Lab File ID: N0667.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/18/2018 10:35

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		100	28
79-34-5	1,1,2,2-Tetrachloroethane	ND		100	16
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50
79-00-5	1,1,2-Trichloroethane	ND		100	21
75-34-3	1,1-Dichloroethane	ND		100	31
75-35-4	1,1-Dichloroethene	ND		100	35
120-82-1	1,2,4-Trichlorobenzene	ND		100	38
96-12-8	1,2-Dibromo-3-Chloropropane	ND		100	50
95-50-1	1,2-Dichlorobenzene	ND		100	26
107-06-2	1,2-Dichloroethane	ND		100	41
78-87-5	1,2-Dichloropropane	ND		100	16
541-73-1	1,3-Dichlorobenzene	ND		100	27
106-46-7	1,4-Dichlorobenzene	ND		100	14
78-93-3	2-Butanone (MEK)	ND		500	300
591-78-6	2-Hexanone	ND		500	210
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		500	32
67-64-1	Acetone	ND		500	410
71-43-2	Benzene	ND		100	19
75-25-2	Bromoform	ND		100	50
74-83-9	Bromomethane	ND		100	22
75-15-0	Carbon disulfide	ND		100	46
56-23-5	Carbon tetrachloride	ND		100	26
108-90-7	Chlorobenzene	ND		100	13
124-48-1	Dibromochloromethane	ND		100	48
75-00-3	Chloroethane	ND		100	21
67-66-3	Chloroform	ND		100	69
74-87-3	Chloromethane	76.1	J	100	24
156-59-2	cis-1,2-Dichloroethene	ND		100	28
110-82-7	Cyclohexane	ND		100	22
75-27-4	Bromodichloromethane	ND		100	20
75-71-8	Dichlorodifluoromethane	ND		100	44
100-41-4	Ethylbenzene	ND		100	29
106-93-4	1,2-Dibromoethane	ND		100	18
98-82-8	Isopropylbenzene	ND		100	15
79-20-9	Methyl acetate	ND		500	48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-420017/2-A

Matrix: Solid | Lab File ID: N0667.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/18/2018 10:35

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		100	38
108-87-2	Methylcyclohexane	ND		100	47
75-09-2	Methylene Chloride	ND		100	20
127-18-4	Tetrachloroethene	ND		100	13
108-88-3	Toluene	ND		100	27
156-60-5	trans-1,2-Dichloroethene	ND		100	24
10061-02-6	trans-1,3-Dichloropropene	ND		100	9.8
79-01-6	Trichloroethene	ND		100	28
75-69-4	Trichlorofluoromethane	ND		100	47
75-01-4	Vinyl chloride	61.6	J	100	34
1330-20-7	Xylenes, Total	ND		200	55
10061-01-5	cis-1,3-Dichloropropene	ND		100	24
100-42-5	Styrene	ND		100	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		53-146
460-00-4	4-Bromofluorobenzene (Surr)	105		49-148
2037-26-5	Toluene-d8 (Surr)	97		50-149
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Lims ID: MB 480-420017/2-A
Client ID:
Sample Type: MB
Inject. Date: 18-Jun-2018 10:35:30 ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB 480-420017/2-A
Misc. Info.: 480-0072406-009
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 13:55:01 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: moffata Date: 18-Jun-2018 13:55:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.357	5.358	-0.001	98	211924	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.339	-0.001	87	787050	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.742	-0.001	96	418443	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.767	-0.006	93	307750	25.0	25.4	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.065	5.072	-0.007	0	403637	25.0	26.8	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	94	1010632	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	338965	25.0	26.2	
11 Dichlorodifluoromethane	85		1.300					ND	U
12 Chlorodifluoromethane	51		1.318					ND	U
13 Chloromethane	50	1.452	1.452	-0.018	67	13387		0.7609	M
14 Vinyl chloride	62	1.543	1.549	-0.006	63	9080		0.6156	
144 Butadiene	54		1.574					ND	U
15 Bromomethane	94		1.853					ND	U
16 Chloroethane	64		1.957					ND	U
18 Trichlorofluoromethane	101		2.145					ND	U
17 Dichlorofluoromethane	67		2.152					ND	U
141 Ethanol	45		2.419					ND	
19 Ethyl ether	59		2.431					ND	
81 Propene oxide	58	2.498	2.504	-0.006	34	1345		NC	
20 Acrolein	56		2.583					ND	U
22 1,1-Dichloroethene	96		2.638					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.644					ND	
23 Acetone	43		2.736					ND	U
24 Iodomethane	142		2.784					ND	
25 Carbon disulfide	76		2.827					ND	
26 Isopropyl alcohol	45		2.918					ND	U
27 3-Chloro-1-propene	41		2.991					ND	
29 Acetonitrile	40		3.015					ND	
28 Methyl acetate	43		3.034					ND	
30 Methylene Chloride	84		3.125					ND	
31 2-Methyl-2-propanol	59		3.283					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
32 Methyl tert-butyl ether	73		3.356					ND	
33 trans-1,2-Dichloroethene	96		3.362					ND	
34 Acrylonitrile	53		3.380					ND	
35 Hexane	57		3.575					ND	
36 1,1-Dichloroethane	63		3.764					ND	
37 Isopropyl ether	45		3.800					ND	
39 Vinyl acetate	43		3.818					ND	
38 2-Chloro-1,3-butadiene	53		3.831					ND	
40 1,1-Dimethoxyethane	75		3.867					ND	
41 Tert-butyl ethyl ether	59		4.135					ND	
42 2,2-Dichloropropane	77		4.287					ND	
43 cis-1,2-Dichloroethene	96		4.305					ND	
44 2-Butanone (MEK)	43		4.336					ND	
45 Ethyl acetate	43		4.384					ND	
46 Propionitrile	54		4.421					ND	
48 Methacrylonitrile	67		4.536					ND	
47 Chlorobromomethane	128		4.536					ND	
49 Tetrahydrofuran	42		4.567					ND	
50 Chloroform	83		4.615					ND	
51 1,1,1-Trichloroethane	97		4.743					ND	
52 Cyclohexane	56		4.767					ND	
53 Carbon tetrachloride	117		4.889					ND	
54 1,1-Dichloropropene	75		4.895					ND	
56 Isobutyl alcohol	43		5.084					ND	
55 Benzene	78		5.090					ND	
146 Isooctane	57		5.120					ND	
57 1,2-Dichloroethane	62		5.139					ND	
140 t-Amyl alcohol	59		5.157					ND	U
58 Tert-amyl methyl ether	73		5.181					ND	
59 n-Heptane	43		5.303					ND	
1 1,4-Difluorobenzene	114		5.467					ND	
60 Trichloroethene	95		5.704					ND	
61 n-Butanol	56		5.710					ND	U
145 Ethyl acrylate	55		5.820					ND	U
62 Methylcyclohexane	83		5.838					ND	
63 1,2-Dichloropropane	63		5.923					ND	
65 Methyl methacrylate	41		6.033					ND	
64 Dibromomethane	93		6.057					ND	
66 1,4-Dioxane	88		6.069					ND	
67 Dichlorobromomethane	83		6.209					ND	
68 2-Nitropropane	43		6.440					ND	U
69 2-Chloroethyl vinyl ether	63		6.495					ND	
70 Epichlorohydrin	57		6.574					ND	
71 cis-1,3-Dichloropropene	75		6.635					ND	
72 4-Methyl-2-pentanone (MIBK	58		6.775					ND	U
73 Toluene	92		6.933					ND	
74 2-Methylthiophene	97		7.061					ND	
75 trans-1,3-Dichloropropene	75		7.189					ND	
76 3-Methylthiophene	97		7.225					ND	
77 Ethyl methacrylate	69		7.256					ND	
78 1,1,2-Trichloroethane	83		7.377					ND	
79 Tetrachloroethene	166		7.469					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
80 1,3-Dichloropropane	76		7.542					ND	
82 2-Hexanone	43		7.615					ND	
149 n-Butyl acetate	43		7.736					ND	
83 Chlorodibromomethane	129		7.773					ND	
84 Ethylene Dibromide	107		7.876					ND	
139 1-Chlorohexane	55		8.332					ND	U
86 3-Chlorobenzotrifluoride	180		8.345					ND	
85 Chlorobenzene	112		8.369					ND	
87 4-Chlorobenzotrifluoride	180		8.405					ND	
89 1,1,1,2-Tetrachloroethane	131		8.466					ND	
88 Ethylbenzene	91		8.472					ND	
90 m-Xylene & p-Xylene	106		8.594					ND	
91 o-Xylene	106		9.020					ND	
92 Styrene	104		9.044					ND	
93 Bromoform	173		9.275					ND	
94 2-Chlorobenzotrifluoride	180		9.318					ND	
95 Isopropylbenzene	105		9.409					ND	
96 Cyclohexanone	55		9.555					ND	U
97 Bromobenzene	156		9.744					ND	
98 1,1,2,2-Tetrachloroethane	83		9.786					ND	
99 1,2,3-Trichloropropane	110		9.817					ND	
101 trans-1,4-Dichloro-2-buten	53		9.835					ND	
100 N-Propylbenzene	91		9.841					ND	
102 2-Chlorotoluene	126		9.939					ND	
103 3-Chlorotoluene	126		9.999					ND	
104 1,3,5-Trimethylbenzene	105		10.024					ND	
105 4-Chlorotoluene	91		10.048					ND	
106 tert-Butylbenzene	134		10.340					ND	
107 Pentachloroethane	167		10.376					ND	
108 1,2,4-Trimethylbenzene	105		10.395					ND	
109 sec-Butylbenzene	105		10.553					ND	
110 1,3-Dichlorobenzene	146		10.675					ND	
111 4-Isopropyltoluene	119		10.693					ND	
112 Dicyclopentadiene	66		10.754					ND	
113 1,4-Dichlorobenzene	146		10.766					ND	
114 1,2,3-Trimethylbenzene	105		10.802					ND	
143 Benzyl chloride	126		10.906					ND	
115 n-Butylbenzene	91		11.082					ND	
116 1,2-Dichlorobenzene	146		11.113					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.837					ND	
118 1,3,5-Trichlorobenzene	180		11.995					ND	
119 1,2,4-Trichlorobenzene	180		12.530					ND	
120 Hexachlorobutadiene	225		12.658					ND	
121 Naphthalene	128		12.743					ND	
122 1,2,3-Trichlorobenzene	180		12.944					ND	
142 2-Methylnaphthalene	142		13.662					ND	
133 Halothane	1		0.000					ND	
138 1-Bromopropane	1		0.000					ND	
131 Aziridine TIC	1		0.000					ND	
136 Ethylene oxide TIC	1		0.000					ND	
S 126 Xylenes, Total	1		30.000					ND	
S 123 1,3-Dichloropropene, Total	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
S 124 1,2-Dichloroethene, Total	1		30.000					ND	
S 125 Total BTEX	1		30.000					ND	
T 150 1-Chloro-1-fluoroethane TI	47		2.000					ND	U
T 134 bis(chloromethyl)ether TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	117		0.000					ND	
T 135 1-Bromopropane TIC	1		0.000					ND	
T 130 Propene oxide TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 137 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	1		0.000					ND	
T 132 Bromoethane TIC	1		0.000					ND	
T 10 Ethylene oxide	1		0.000					ND	
T 129 tert-amyl alcohol TIC	1		0.000					ND	

QC Flag Legend

Processing Flags
NC - Not Calibrated
Review Flags
M - Manually Integrated
U - Marked Undetected

Reagents:

N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

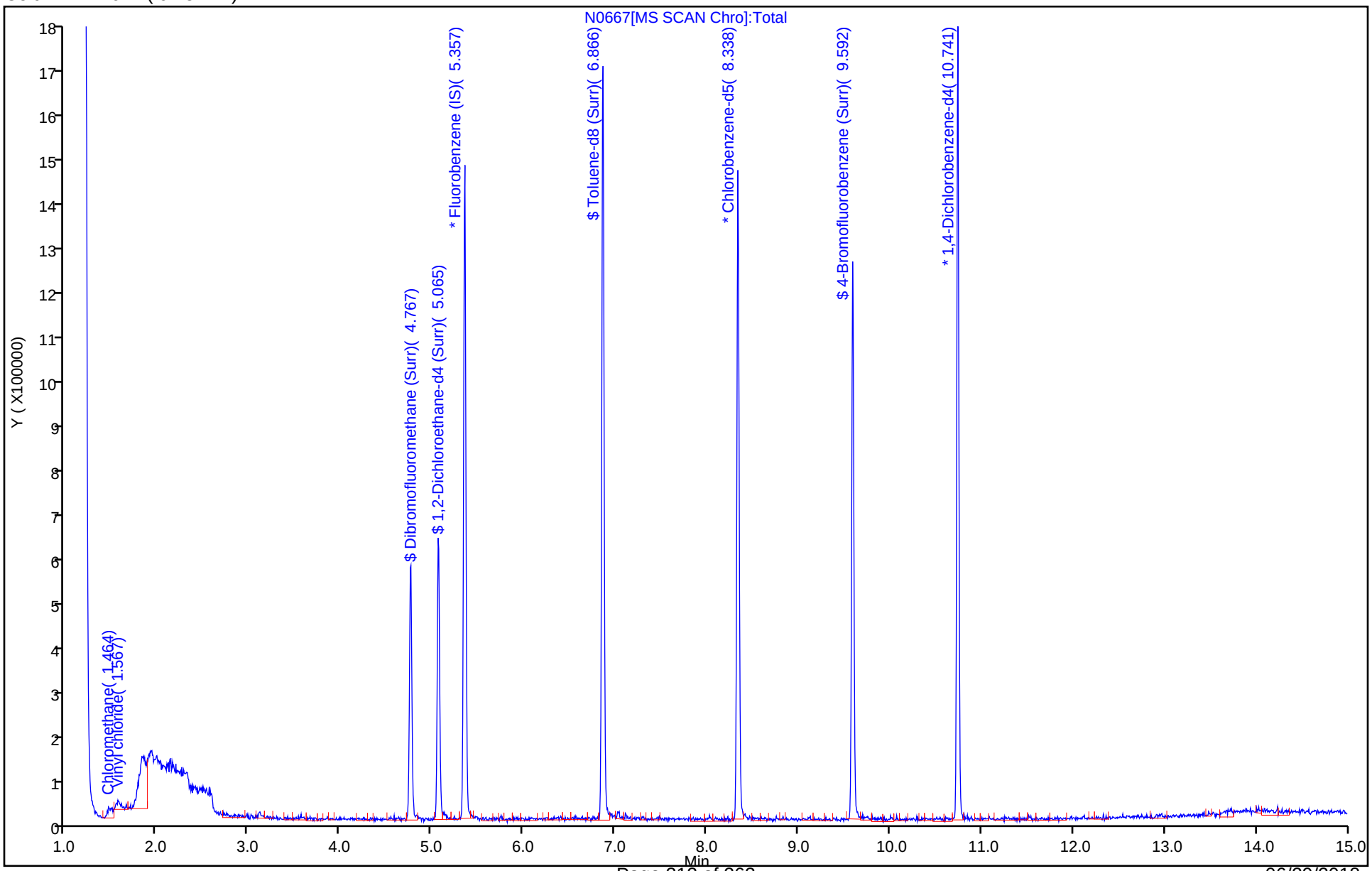
Report Date: 18-Jun-2018 13:55:01 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D

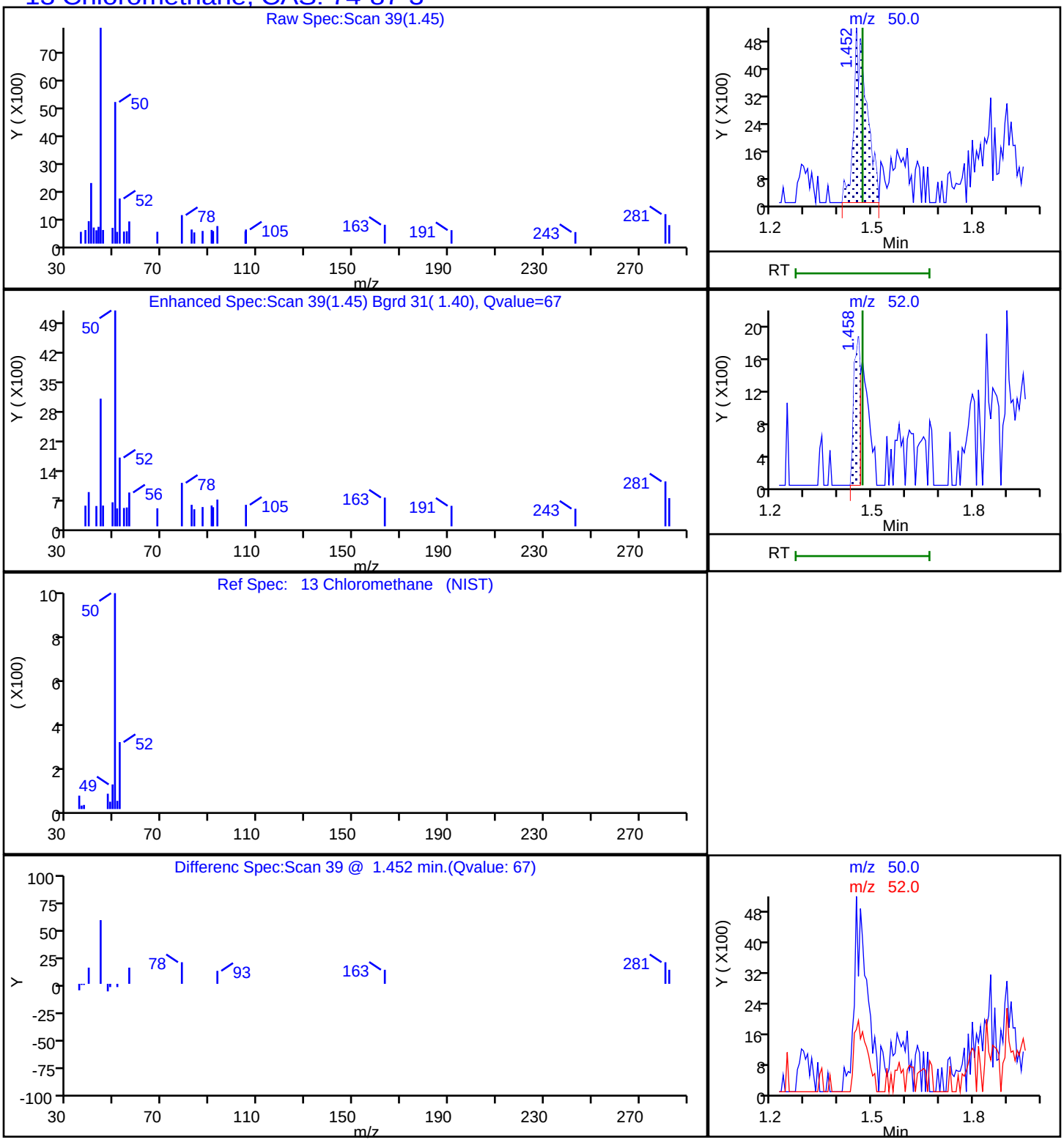
Injection Date:	18-Jun-2018 10:35:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	MB 480-420017/2-A			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



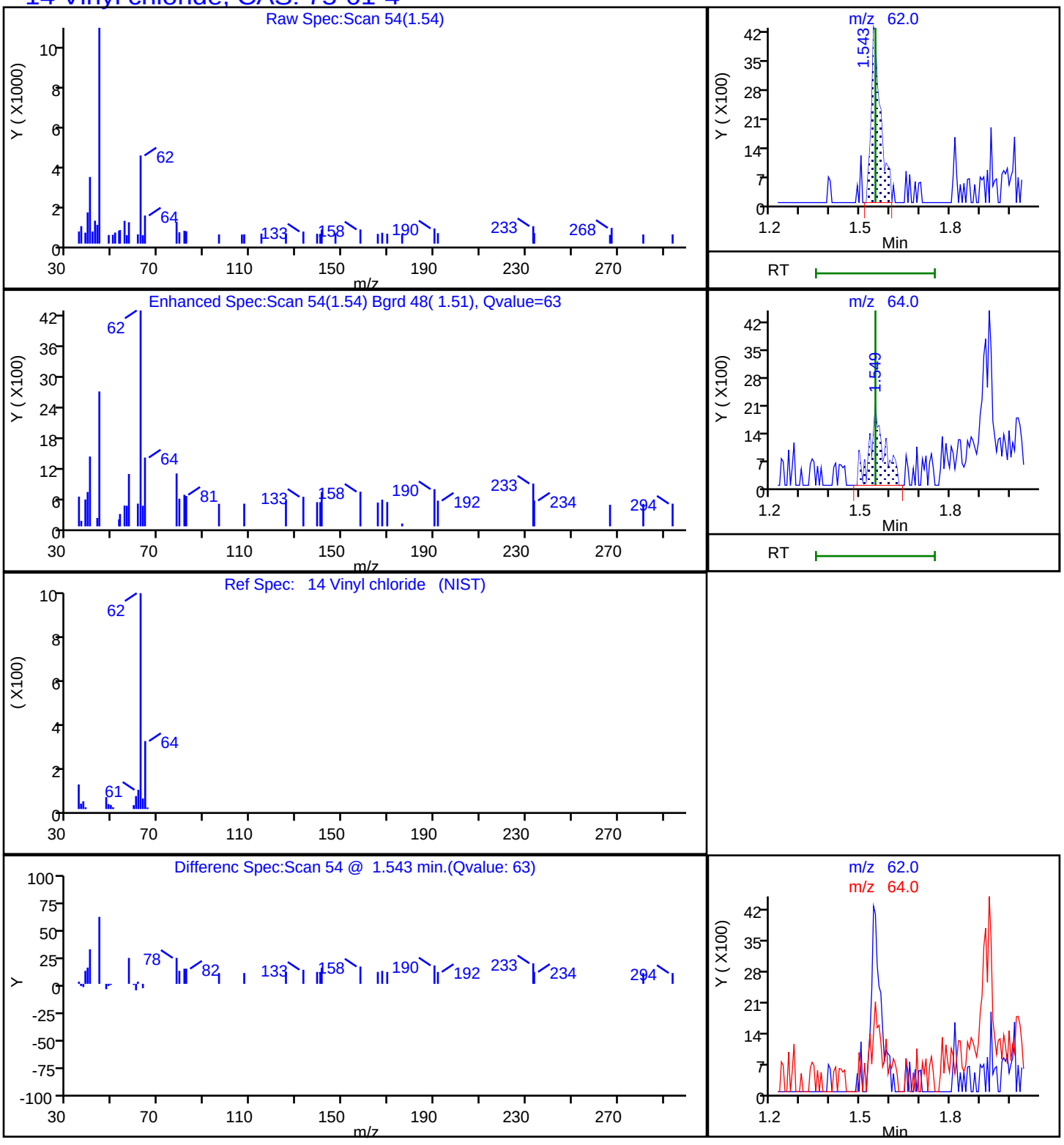
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloromethane, CAS: 74-87-3



Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Vinyl chloride, CAS: 75-01-4



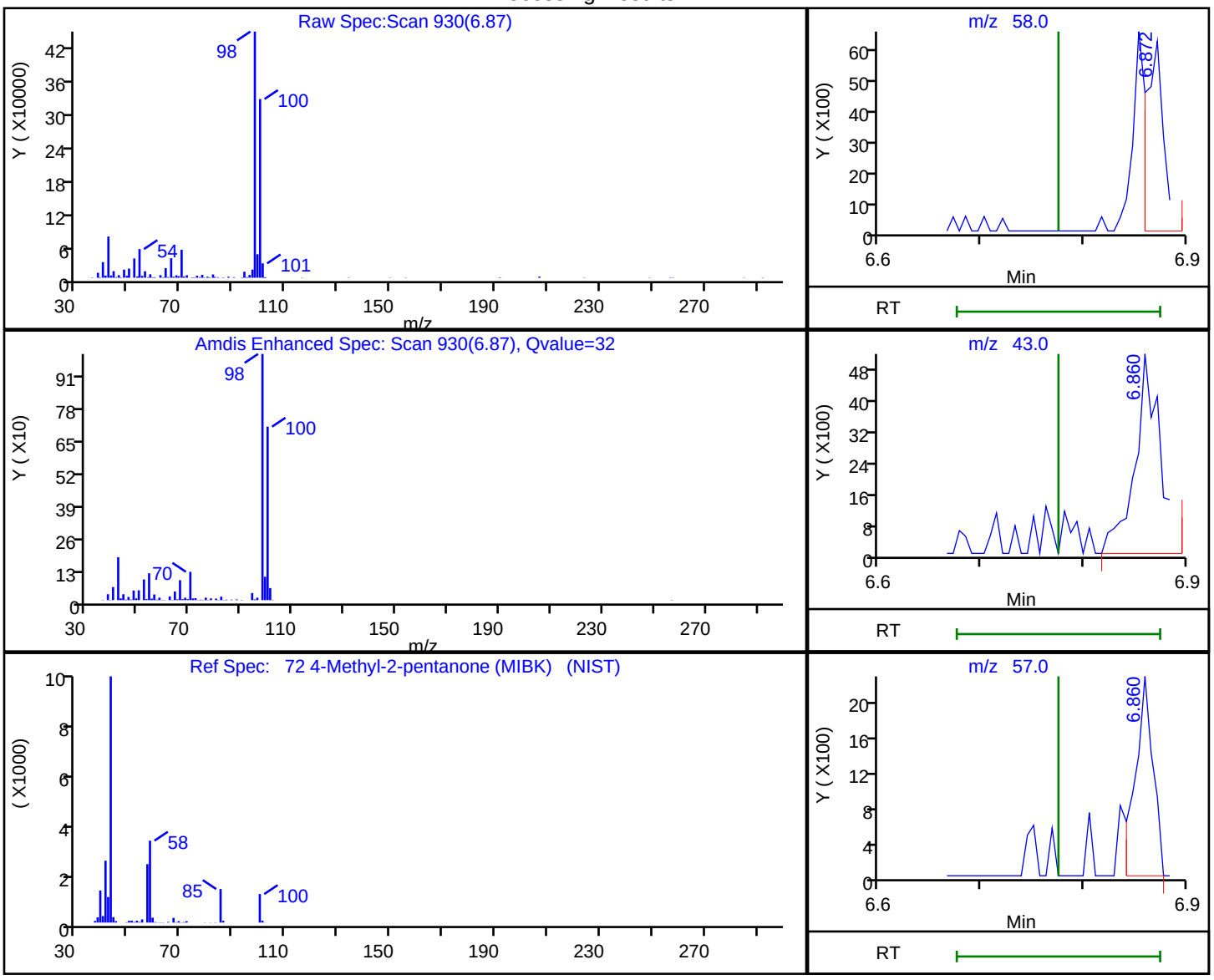
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.87	58.00	7504	1.193212
6.86	43.00	8672	
6.86	57.00	2669	

Reviewer: moffata, 18-Jun-2018 13:54:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

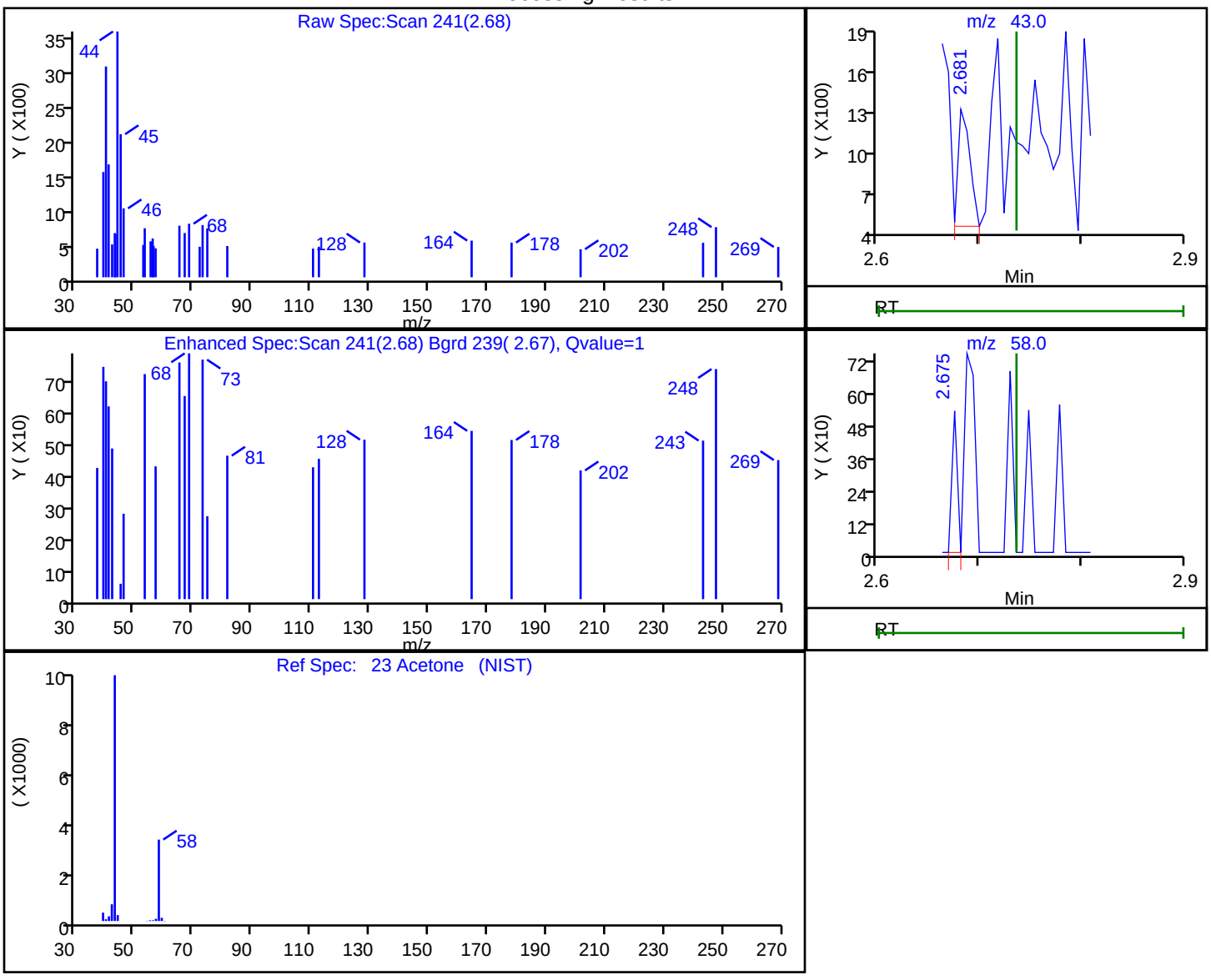
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.68	43.00	650	0.152943
2.67	58.00	193	

Reviewer: moffata, 18-Jun-2018 13:54:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

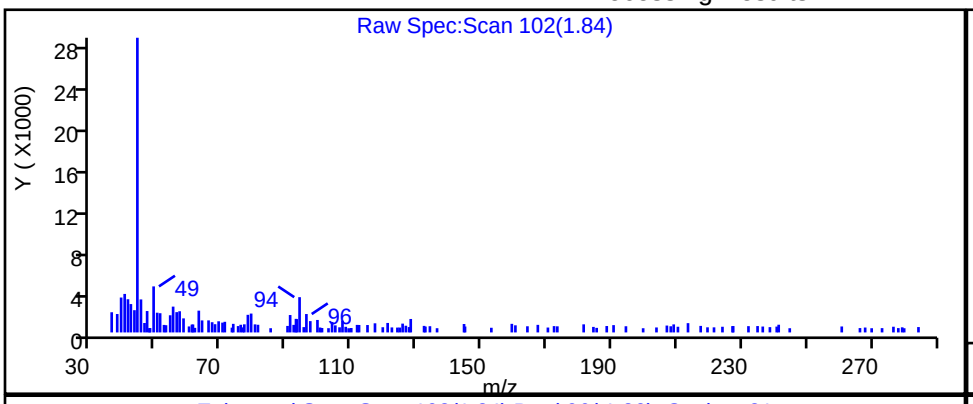
User Disabled Compound Report

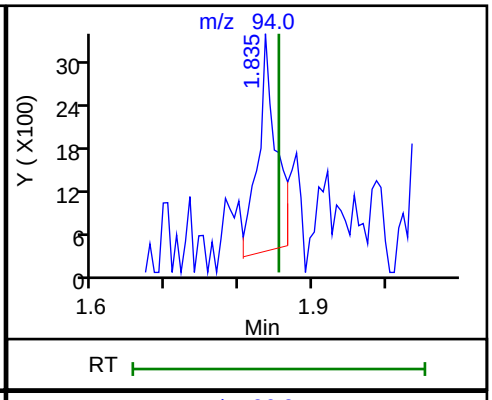
TestAmerica Buffalo

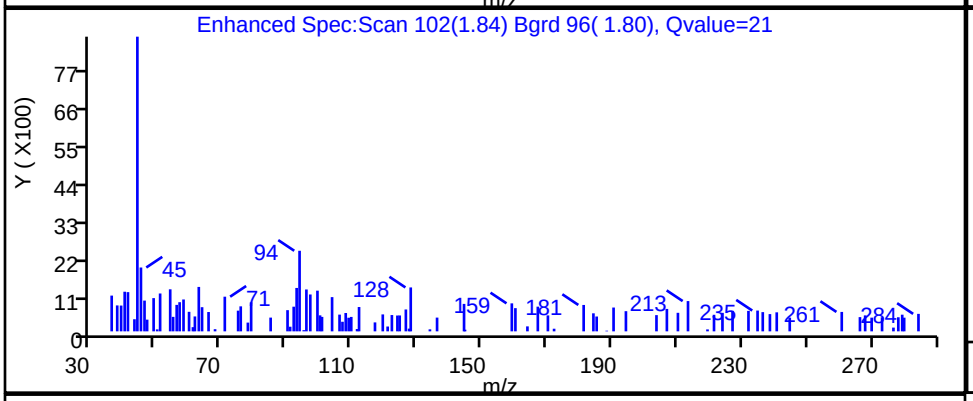
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D				
Injection Date:	18-Jun-2018 10:35:30	Instrument ID:	HP5973N		
Lims ID:	MB 480-420017/2-A				
Client ID:					
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

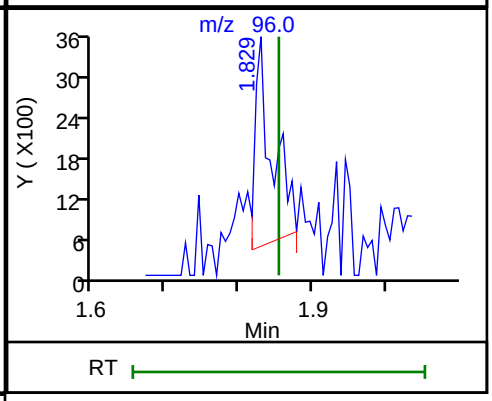
15 Bromomethane, CAS: 74-83-9

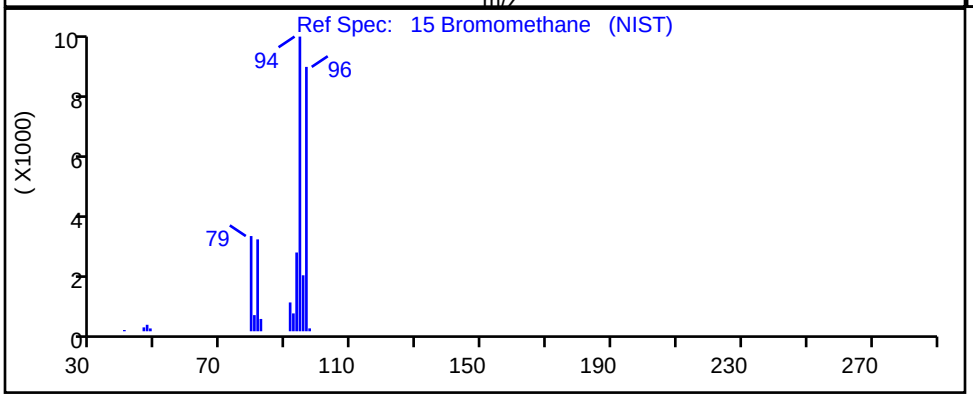
Processing Results











RT	Mass	Response	Amount
1.84	94.00	5253	0.647004
1.83	96.00	4991	

Reviewer: moffata, 18-Jun-2018 13:54:05

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

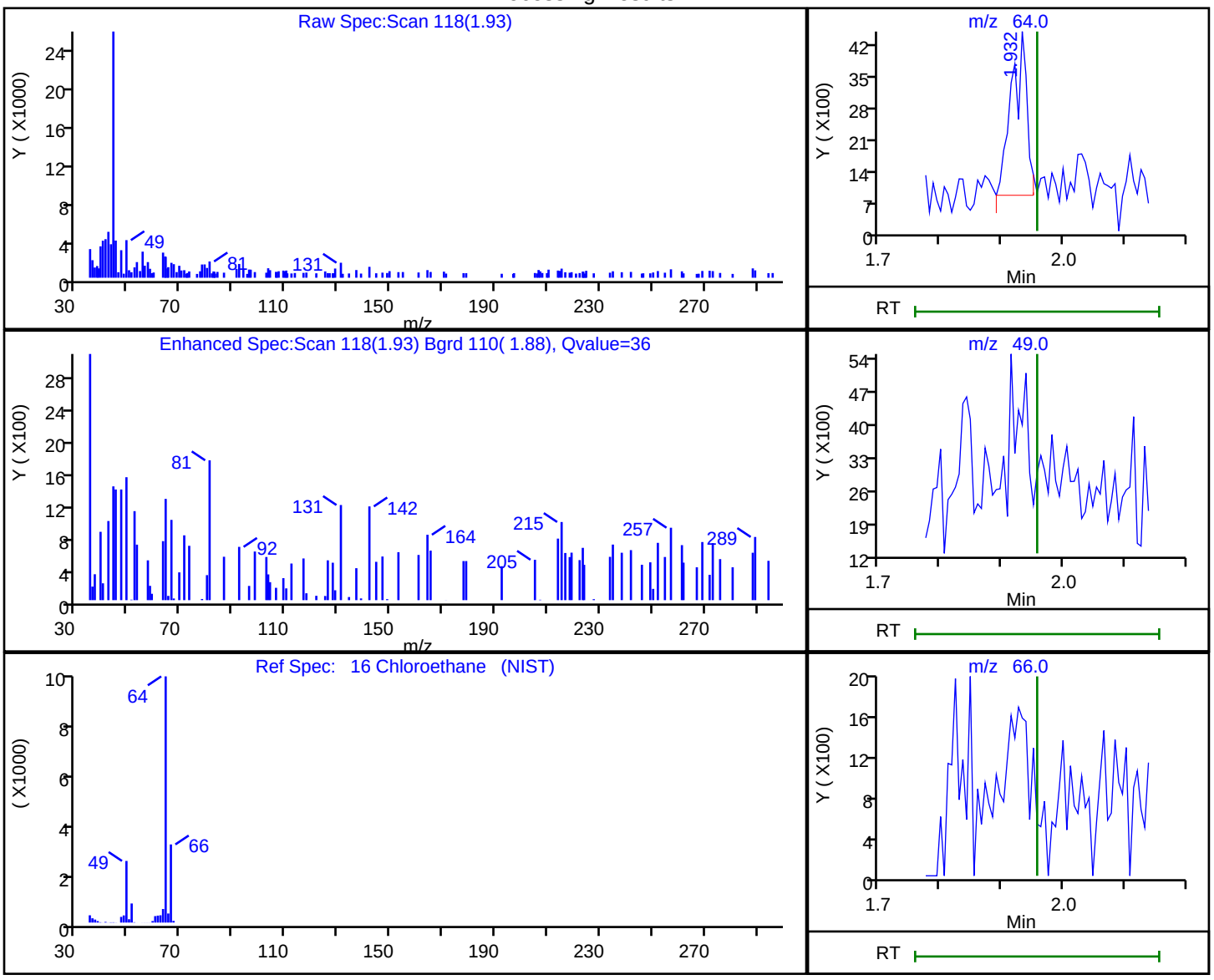
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.93	64.00	6346	0.852848
1.95	49.00	0	
1.95	66.00	0	

Reviewer: moffata, 18-Jun-2018 13:54:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

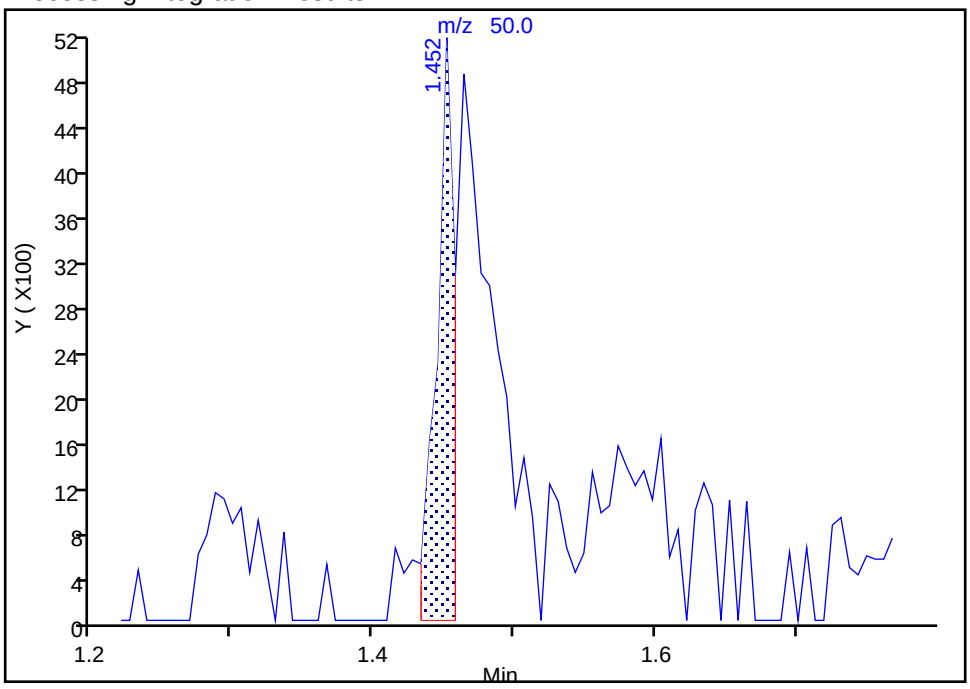
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

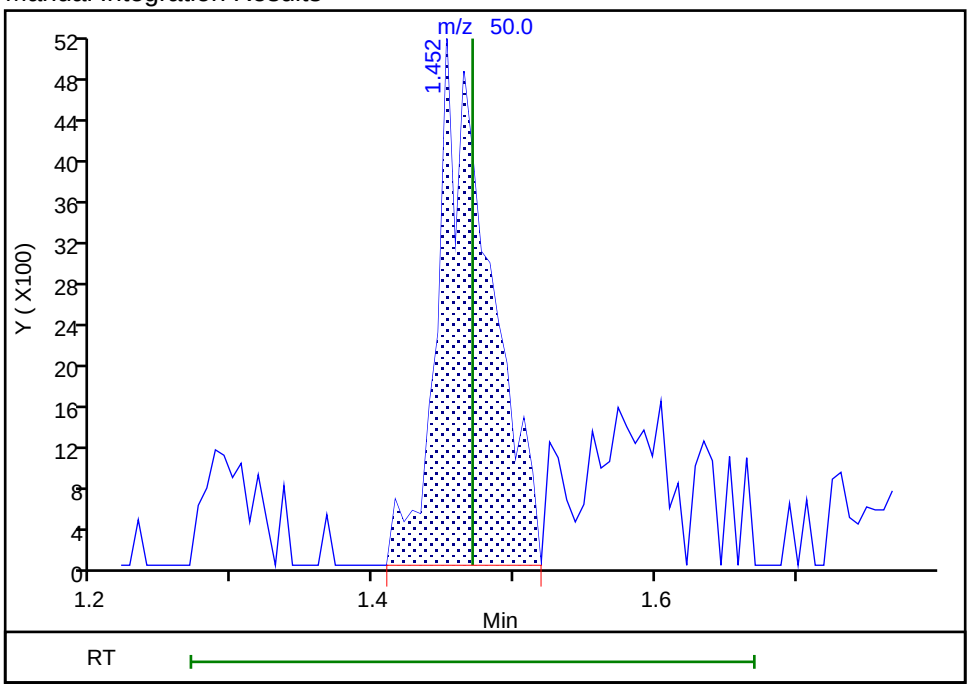
Processing Integration Results

RT: 1.45
Area: 4575
Amount: 0.260050
Amount Units: ug/L



Manual Integration Results

RT: 1.45
Area: 13387
Amount: 0.760937
Amount Units: ug/L



Reviewer: moffata, 18-Jun-2018 13:54:00
Audit Action: Manually Integrated Audit Reason: Poor chromatography

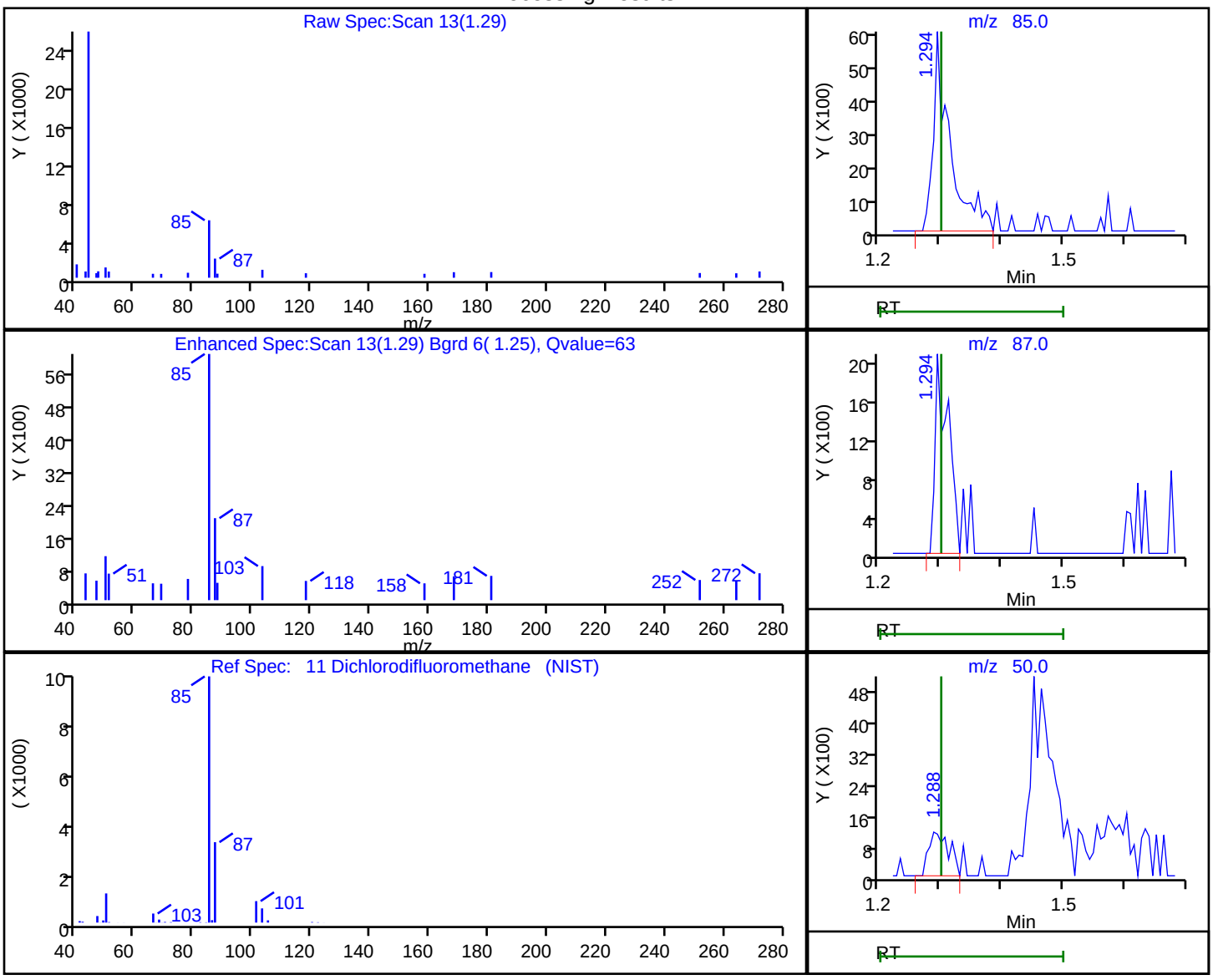
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D
Injection Date: 18-Jun-2018 10:35:30 Instrument ID: HP5973N
Lims ID: MB 480-420017/2-A
Client ID:
Operator ID: AM ALS Bottle#: 9 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

11 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.29	85.00	11372	0.893893
1.29	87.00	2973	
1.29	50.00	2602	

Reviewer: moffata, 18-Jun-2018 13:53:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

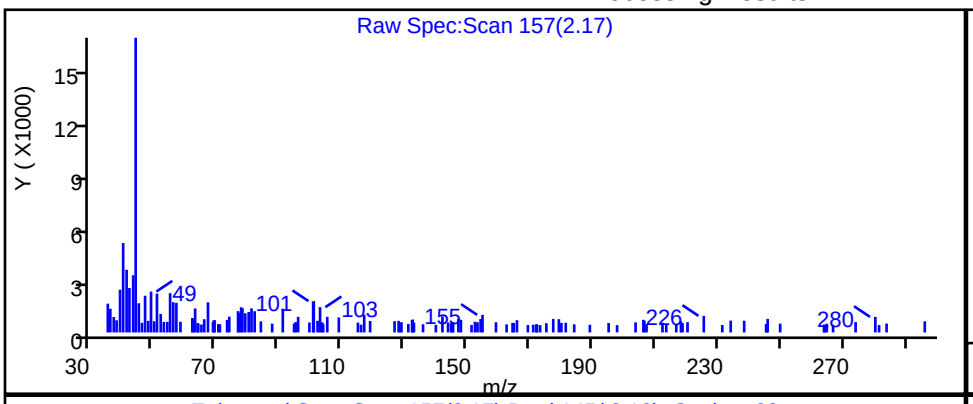
User Disabled Compound Report

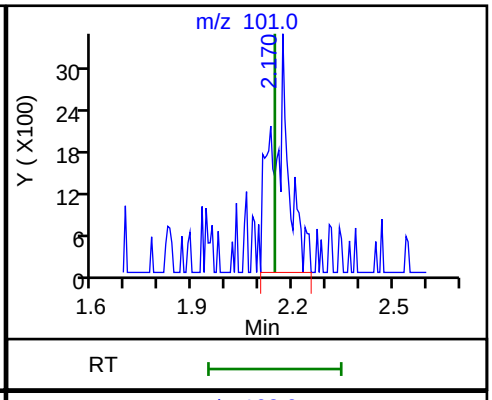
TestAmerica Buffalo

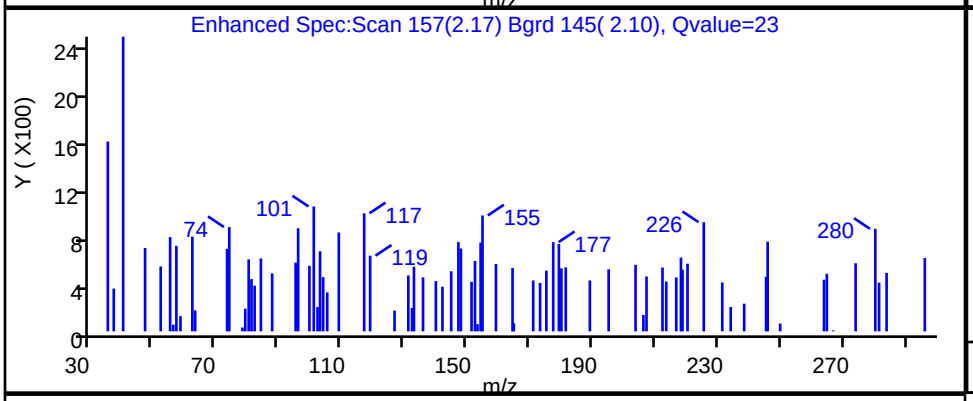
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0667.D				
Injection Date:	18-Jun-2018 10:35:30	Instrument ID:	HP5973N		
Lims ID:	MB 480-420017/2-A				
Client ID:					
Operator ID:	AM	ALS Bottle#:	9	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

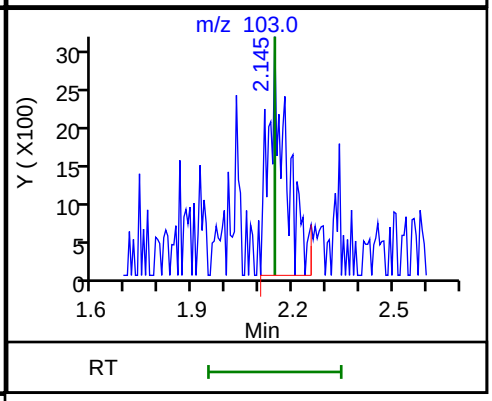
18 Trichlorofluoromethane, CAS: 75-69-4

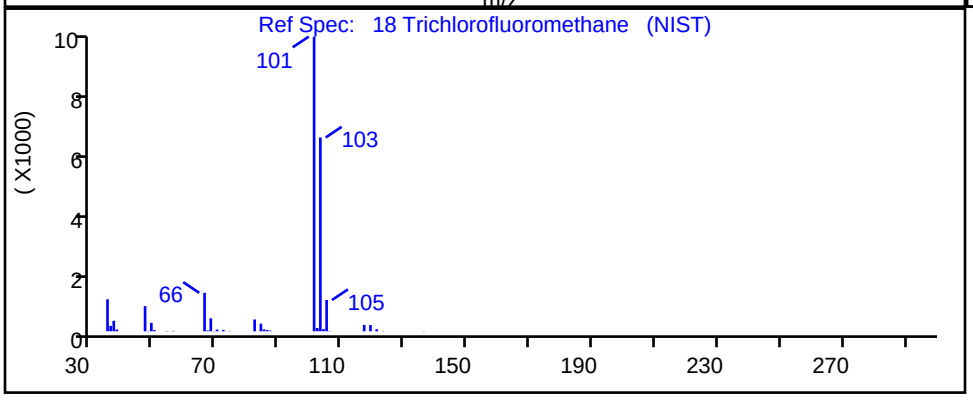
Processing Results











RT	Mass	Response	Amount
2.17	101.00	11490	0.684376
2.15	103.00	11768	

Reviewer: moffata, 18-Jun-2018 13:54:08

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-419967/16-A

Matrix: Solid | Lab File ID: F2859.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/16/2018 09:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	40.2		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	46.4		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	42.4		5.0	1.1
79-00-5	1,1,2-Trichloroethane	43.9		5.0	0.65
75-34-3	1,1-Dichloroethane	44.2		5.0	0.61
75-35-4	1,1-Dichloroethene	44.0		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	42.6		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	46.5		5.0	2.5
95-50-1	1,2-Dichlorobenzene	43.2		5.0	0.39
107-06-2	1,2-Dichloroethane	41.0		5.0	0.25
78-87-5	1,2-Dichloropropane	43.3		5.0	2.5
541-73-1	1,3-Dichlorobenzene	45.0		5.0	0.26
106-46-7	1,4-Dichlorobenzene	44.5		5.0	0.70
78-93-3	2-Butanone (MEK)	280		25	1.8
591-78-6	2-Hexanone	264		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	251		25	1.6
67-64-1	Acetone	265		25	4.2
71-43-2	Benzene	45.1		5.0	0.25
75-25-2	Bromoform	43.8		5.0	2.5
74-83-9	Bromomethane	44.6		5.0	0.45
75-15-0	Carbon disulfide	43.4		5.0	2.5
56-23-5	Carbon tetrachloride	39.7		5.0	0.48
108-90-7	Chlorobenzene	44.4		5.0	0.66
124-48-1	Dibromochloromethane	43.2		5.0	0.64
75-00-3	Chloroethane	45.4		5.0	1.1
67-66-3	Chloroform	42.9		5.0	0.31
74-87-3	Chloromethane	42.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	44.2		5.0	0.64
110-82-7	Cyclohexane	42.4		5.0	0.70
75-27-4	Bromodichloromethane	42.7		5.0	0.67
75-71-8	Dichlorodifluoromethane	41.8		5.0	0.41
100-41-4	Ethylbenzene	44.8		5.0	0.35
106-93-4	1,2-Dibromoethane	44.2		5.0	0.64
98-82-8	Isopropylbenzene	45.2		5.0	0.75
79-20-9	Methyl acetate	113		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-419967/16-A

Matrix: Solid | Lab File ID: F2859.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/16/2018 09:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 419970 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	40.5		5.0	0.49
108-87-2	Methylcyclohexane	43.1		5.0	0.76
75-09-2	Methylene Chloride	46.0		5.0	2.3
127-18-4	Tetrachloroethene	43.8		5.0	0.67
108-88-3	Toluene	45.3		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	44.4		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	42.4		5.0	2.2
79-01-6	Trichloroethene	43.7		5.0	1.1
75-69-4	Trichlorofluoromethane	44.7		5.0	0.47
75-01-4	Vinyl chloride	46.1		5.0	0.61
1330-20-7	Xylenes, Total	88.2		10	0.84
10061-01-5	cis-1,3-Dichloropropene	42.6		5.0	0.72
100-42-5	Styrene	44.3		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
460-00-4	4-Bromofluorobenzene (Surr)	98		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2859.D
Lims ID: LCS 480-419967/16-A
Client ID:
Sample Type: LCS
Inject. Date: 16-Jun-2018 09:50:30 ALS Bottle#: 4 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 480-419967/16-A
Misc. Info.: 480-0072382-020
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 16-Jun-2018 10:01:28 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: moffata Date: 16-Jun-2018 10:25:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	282984	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	575282	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	549105	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	342574	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.953	0.001	98	214975	50.0	47.8	
$ 5 Toluene-d8 (Surr)	98	6.554	6.560	-0.006	92	1341622	50.0	50.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	438347	50.0	48.9	
10 Dichlorodifluoromethane	85	1.802	1.802	0.000	99	373342	50.0	41.8	
12 Chloromethane	50	1.985	1.985	0.000	99	310794	50.0	42.6	M
13 Vinyl chloride	62	2.070	2.070	0.000	97	329322	50.0	46.1	
151 Butadiene	54	2.082	2.082	0.000	89	334903	50.0	42.2	
14 Bromomethane	94	2.362	2.356	0.006	91	179610	50.0	44.6	
15 Chloroethane	64	2.411	2.411	0.000	99	146448	50.0	45.4	
16 Dichlorofluoromethane	67	2.563	2.563	0.000	97	399657	50.0	46.0	
17 Trichlorofluoromethane	101	2.587	2.593	-0.006	98	420606	50.0	44.7	
18 Ethyl ether	59	2.770	2.763	0.007	87	228734	50.0	41.9	
20 Acrolein	56	2.916	2.922	-0.006	100	364838	250.0	253.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	92	311457	50.0	42.4	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	321331	50.0	44.0	
23 Acetone	43	3.025	3.031	-0.006	100	785943	250.0	264.6	
25 Iodomethane	142	3.128	3.128	0.000	99	556865	50.0	42.6	
26 Carbon disulfide	76	3.177	3.183	-0.006	99	1024539	50.0	43.4	
27 Methyl acetate	43	3.244	3.244	0.000	92	624458	100.0	112.7	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	86	499116	50.0	42.7	
30 Methylene Chloride	84	3.354	3.353	0.001	89	400026	50.0	46.0	
31 2-Methyl-2-propanol	59	3.408	3.414	-0.006	100	473956	500.0	546.9	
32 Methyl tert-butyl ether	73	3.506	3.506	0.000	93	1030590	50.0	40.5	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	373671	50.0	44.4	
33 Acrylonitrile	53	3.548	3.548	0.000	98	1486027	500.0	533.6	
35 Hexane	57	3.670	3.670	0.000	90	571052	50.0	43.1	
37 Vinyl acetate	43	3.846	3.846	0.000	97	1393924	100.0	89.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.858	3.858	0.000	96	635561	50.0	44.2	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	60	503803	50.0	40.7	
43 2-Butanone (MEK)	43	4.290	4.296	-0.006	98	1083574	250.0	280.3	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.001	79	408199	50.0	44.2	
48 Chlorobromomethane	128	4.503	4.503	0.000	93	187836	50.0	42.9	
49 Tetrahydrofuran	42	4.528	4.528	0.000	85	261473	100.0	110.7	
50 Chloroform	83	4.540	4.540	0.000	92	644991	50.0	42.9	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	98	513074	50.0	40.2	
52 Cyclohexane	56	4.704	4.704	0.000	87	546546	50.0	42.4	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	97	521361	50.0	43.9	
55 Carbon tetrachloride	117	4.808	4.807	0.001	97	426834	50.0	39.7	
53 Isobutyl alcohol	43	4.862	4.868	-0.006	94	521515	1250.0	1442.3	
57 Benzene	78	4.978	4.978	0.000	97	1468719	50.0	45.1	
58 1,2-Dichloroethane	62	5.014	5.014	0.000	97	510243	50.0	41.0	
59 n-Heptane	43	5.075	5.075	0.000	87	541856	50.0	42.4	
62 Trichloroethene	95	5.495	5.495	0.000	98	379602	50.0	43.7	
64 Methylcyclohexane	83	5.629	5.629	0.000	87	660699	50.0	43.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	95	329803	50.0	43.3	
66 1,4-Dioxane	88	5.817	5.823	-0.006	92	100169	1000.0	1170.4	
67 Dibromomethane	93	5.842	5.842	0.000	95	221812	50.0	42.7	
68 Dichlorobromomethane	83	5.951	5.951	0.000	99	452638	50.0	42.7	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	212043	50.0	45.3	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	550090	50.0	42.6	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.438	-0.006	94	1833425	250.0	251.0	
74 Toluene	92	6.620	6.620	0.000	99	933395	50.0	45.3	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.001	97	511949	50.0	42.4	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	465074	50.0	44.6	
79 1,1,2-Trichloroethane	83	7.034	7.040	-0.006	92	257230	50.0	43.9	
81 Tetrachloroethene	166	7.138	7.138	0.001	97	405869	50.0	43.8	
82 1,3-Dichloropropane	76	7.198	7.204	-0.006	97	550809	50.0	44.4	
80 2-Hexanone	43	7.217	7.223	-0.006	95	1506026	250.0	264.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	315343	50.0	43.2	
84 Ethylene Dibromide	107	7.563	7.569	-0.006	99	330278	50.0	44.2	
87 Chlorobenzene	112	8.020	8.020	0.000	94	989209	50.0	44.4	
88 Ethylbenzene	91	8.087	8.087	0.001	98	1663856	50.0	44.8	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	304521	50.0	42.2	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	692482	50.0	44.4	
91 o-Xylene	106	8.628	8.628	0.000	95	639238	50.0	43.8	
92 Styrene	104	8.652	8.652	0.000	94	1128372	50.0	44.3	
95 Bromoform	173	8.920	8.920	0.000	97	207721	50.0	43.8	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1619627	50.0	45.2	
101 Bromobenzene	156	9.388	9.388	0.000	92	431656	50.0	43.7	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	78	418651	50.0	46.4	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	44	134497	50.0	45.4	
100 1,2,3-Trichloropropane	110	9.437	9.437	0.000	55	144065	50.0	46.6	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	1925418	50.0	46.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	396124	50.0	44.4	
102 1,3,5-Trimethylbenzene	105	9.601	9.607	-0.006	94	1401182	50.0	45.4	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	436420	50.0	45.3	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	313590	50.0	44.4	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1423309	50.0	44.9	
109 sec-Butylbenzene	105	10.143	10.137	0.006	94	1756617	50.0	45.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.271	10.271	0.001	96	1500231	50.0	45.3	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	828130	50.0	45.0	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	840042	50.0	44.5	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1362018	50.0	45.6	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	732505	50.0	43.2	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	86	80712	50.0	46.5	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	482300	50.0	42.6	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	293346	50.0	43.0	
121 Naphthalene	128	12.266	12.266	0.000	97	1153674	50.0	43.7	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	434375	50.0	41.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00039 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 16-Jun-2018 10:25:30 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2859.D

Injection Date: 16-Jun-2018 09:50:30 Instrument ID: HP5973F Operator ID: AM

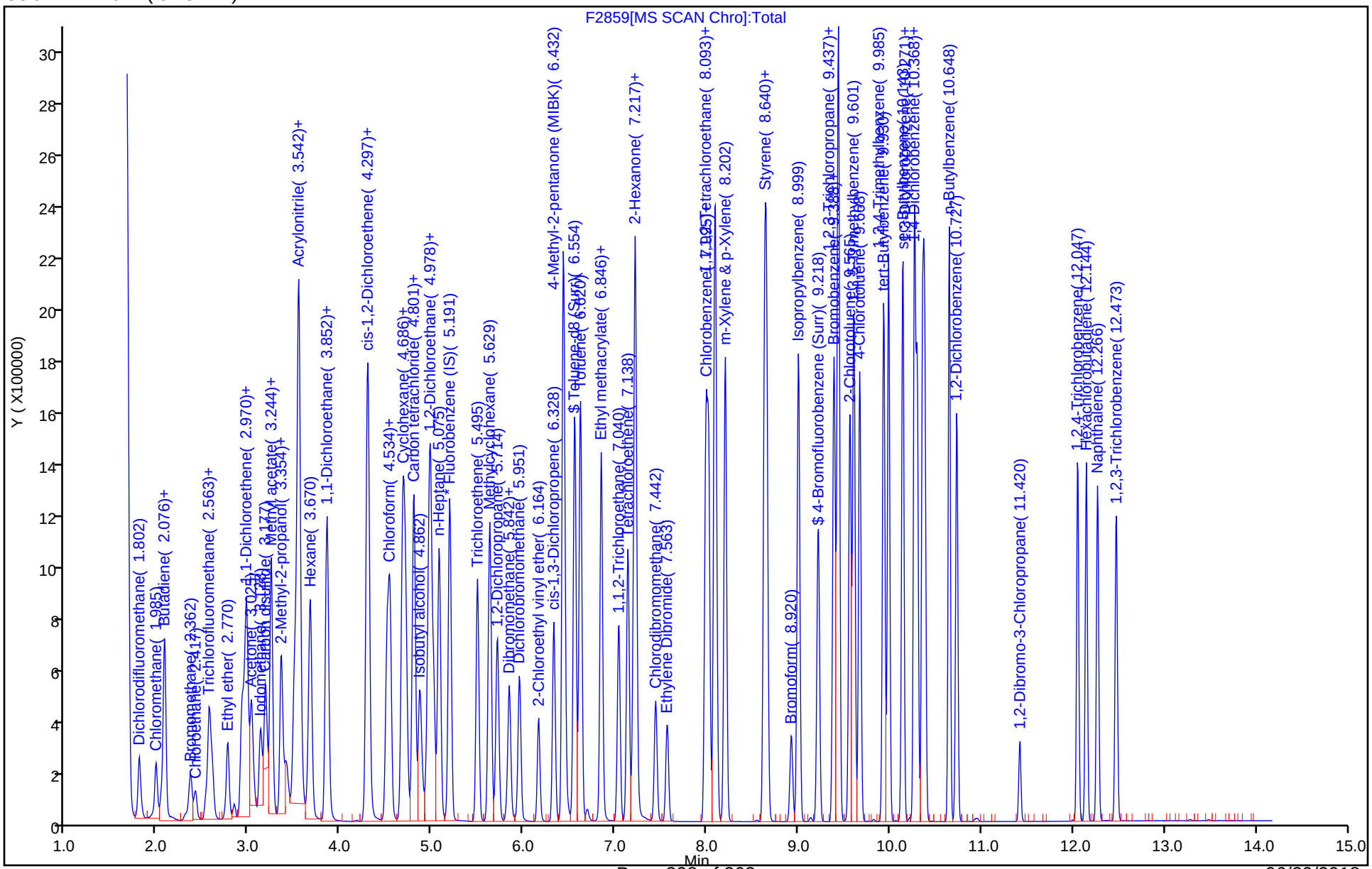
Lims ID: LCS 480-419967/16-A Worklist Smp#: 20

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

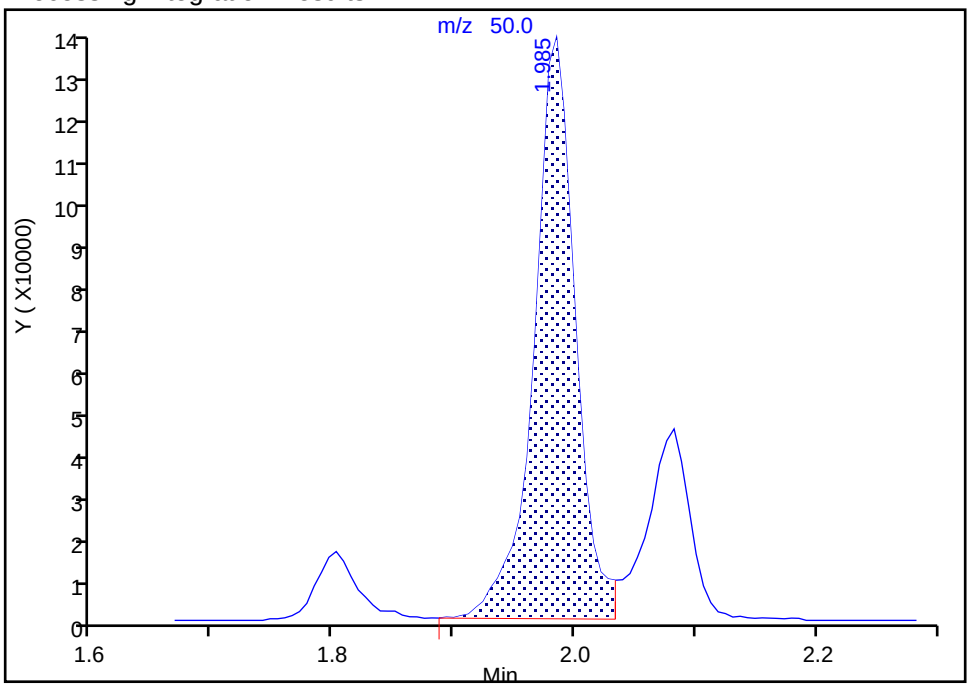
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180616-72382.b\F2859.D
Injection Date: 16-Jun-2018 09:50:30 Instrument ID: HP5973F
Lims ID: LCS 480-419967/16-A
Client ID:
Operator ID: AM ALS Bottle#: 4 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

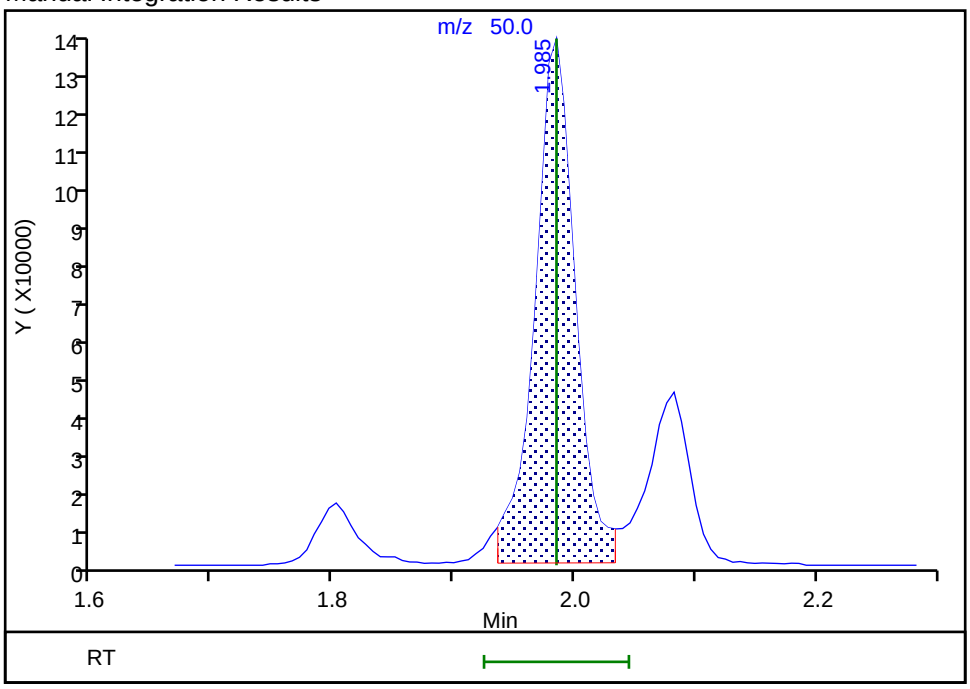
Processing Integration Results

RT: 1.98
Area: 317665
Amount: 43.585341
Amount Units: ug/kg



Manual Integration Results

RT: 1.98
Area: 310794
Amount: 42.642603
Amount Units: ug/kg



Reviewer: moffata, 16-Jun-2018 10:00:32
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-420017/1-A

Matrix: Solid | Lab File ID: N0664.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/18/2018 09:14

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2510		100	28
79-34-5	1,1,2,2-Tetrachloroethane	2240		100	16
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	2690		100	50
79-00-5	1,1,2-Trichloroethane	2310		100	21
75-34-3	1,1-Dichloroethane	2510		100	31
75-35-4	1,1-Dichloroethene	2360		100	35
120-82-1	1,2,4-Trichlorobenzene	2720		100	38
96-12-8	1,2-Dibromo-3-Chloropropane	2440		100	50
95-50-1	1,2-Dichlorobenzene	2470		100	26
107-06-2	1,2-Dichloroethane	2460		100	41
78-87-5	1,2-Dichloropropane	2390		100	16
541-73-1	1,3-Dichlorobenzene	2440		100	27
106-46-7	1,4-Dichlorobenzene	2450		100	14
78-93-3	2-Butanone (MEK)	9670		500	300
591-78-6	2-Hexanone	11800		500	210
108-10-1	4-Methyl-2-pentanone (MIBK)	11900		500	32
67-64-1	Acetone	11700		500	410
71-43-2	Benzene	2400		100	19
75-25-2	Bromoform	2360		100	50
74-83-9	Bromomethane	2280		100	22
75-15-0	Carbon disulfide	2350		100	46
56-23-5	Carbon tetrachloride	2690		100	26
108-90-7	Chlorobenzene	2420		100	13
124-48-1	Dibromochloromethane	2380		100	48
75-00-3	Chloroethane	2560		100	21
67-66-3	Chloroform	2450		100	69
74-87-3	Chloromethane	2500		100	24
156-59-2	cis-1,2-Dichloroethene	2420		100	28
110-82-7	Cyclohexane	2790		100	22
75-27-4	Bromodichloromethane	2440		100	20
75-71-8	Dichlorodifluoromethane	2460		100	44
100-41-4	Ethylbenzene	2440		100	29
106-93-4	1,2-Dibromoethane	2370		100	18
98-82-8	Isopropylbenzene	2420		100	15
79-20-9	Methyl acetate	5350		500	48

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-420017/1-A

Matrix: Solid | Lab File ID: N0664.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/18/2018 09:14

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 1

Soil Extract Vol.: 10(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 420097 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	2400		100	38
108-87-2	Methylcyclohexane	2710		100	47
75-09-2	Methylene Chloride	2340		100	20
127-18-4	Tetrachloroethene	2550		100	13
108-88-3	Toluene	2380		100	27
156-60-5	trans-1,2-Dichloroethene	2340		100	24
10061-02-6	trans-1,3-Dichloropropene	2410		100	9.8
79-01-6	Trichloroethene	2510		100	28
75-69-4	Trichlorofluoromethane	2550		100	47
75-01-4	Vinyl chloride	2510		100	34
1330-20-7	Xylenes, Total	4980		200	55
10061-01-5	cis-1,3-Dichloropropene	2410		100	24
100-42-5	Styrene	2490		100	24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		53-146
460-00-4	4-Bromofluorobenzene (Surr)	100		49-148
2037-26-5	Toluene-d8 (Surr)	96		50-149
1868-53-7	Dibromofluoromethane (Surr)	99		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0664.D
Lims ID: LCS 480-420017/1-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Jun-2018 09:14:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 480-420017/1-A
Misc. Info.: 480-0072406-006
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Jun-2018 16:45:21 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: moffata Date: 18-Jun-2018 13:52:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.357	5.358	-0.001	98	220821	25.0	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.339	-0.001	87	834816	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.742	-0.001	94	440812	25.0	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.767	-0.006	78	313864	25.0	24.9	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.065	5.072	-0.007	0	402742	25.0	25.6	
$ 6 Toluene-d8 (Surr)	98	6.860	6.866	-0.006	94	1062319	25.0	24.1	
$ 7 4-Bromofluorobenzene (Surr	174	9.598	9.592	0.006	92	344092	25.0	25.0	
11 Dichlorodifluoromethane	85	1.294	1.300	-0.006	98	326071	25.0	24.6	
13 Chloromethane	50	1.458	1.470	-0.012	99	457535	25.0	25.0	
14 Vinyl chloride	62	1.543	1.549	-0.006	98	385142	25.0	25.1	
144 Butadiene	54	1.573	1.574	-0.001	94	377747	25.0	24.1	
15 Bromomethane	94	1.829	1.853	-0.024	92	192847	25.0	22.8	
16 Chloroethane	64	1.926	1.957	-0.031	97	198812	25.0	25.6	
18 Trichlorofluoromethane	101	2.139	2.145	-0.006	97	446204	25.0	25.5	
17 Dichlorofluoromethane	67	2.133	2.152	-0.019	97	464316	25.0	24.3	
19 Ethyl ether	59	2.431	2.431	0.000	99	289804	25.0	20.8	
20 Acrolein	56	2.583	2.583	0.000	98	206281	125.0	83.9	
22 1,1-Dichloroethene	96	2.620	2.638	-0.018	95	271122	25.0	23.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.644	2.644	0.000	91	281214	25.0	26.9	M
23 Acetone	43	2.741	2.736	0.005	98	518745	125.0	117.1	
24 Iodomethane	142	2.766	2.784	-0.018	99	541149	25.0	25.6	
25 Carbon disulfide	76	2.808	2.827	-0.019	98	833199	25.0	23.5	
27 3-Chloro-1-propene	41	2.979	2.991	-0.012	84	621441	25.0	24.8	
28 Methyl acetate	43	3.034	3.034	0.000	100	823114	50.0	53.5	
30 Methylene Chloride	84	3.119	3.125	-0.006	93	328614	25.0	23.4	
31 2-Methyl-2-propanol	59	3.313	3.283	0.030	97	153789	250.0	146.7	
32 Methyl tert-butyl ether	73	3.356	3.356	0.000	99	1026594	25.0	24.0	
33 trans-1,2-Dichloroethene	96	3.350	3.362	-0.012	92	318156	25.0	23.4	
34 Acrylonitrile	53	3.386	3.380	0.006	98	1807684	250.0	253.5	
35 Hexane	57	3.569	3.575	-0.006	95	564909	25.0	26.6	
36 1,1-Dichloroethane	63	3.757	3.764	-0.007	97	639727	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.818	3.818	0.000	97	1448783	50.0	51.1	
42 2,2-Dichloropropane	77	4.275	4.287	-0.012	89	433632	25.0	25.0	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	86	360568	25.0	24.2	
44 2-Butanone (MEK)	43	4.341	4.336	0.005	98	784952	125.0	96.7	
47 Chlorobromomethane	128	4.530	4.536	-0.006	95	194290	25.0	25.4	
49 Tetrahydrofuran	42	4.573	4.567	0.006	91	294901	50.0	47.0	
50 Chloroform	83	4.615	4.615	0.000	96	578457	25.0	24.5	
51 1,1,1-Trichloroethane	97	4.737	4.743	-0.006	97	493802	25.0	25.1	
52 Cyclohexane	56	4.761	4.767	-0.006	96	658078	25.0	27.9	
53 Carbon tetrachloride	117	4.877	4.889	-0.012	96	451093	25.0	26.9	
54 1,1-Dichloropropene	75	4.889	4.895	-0.006	89	429645	25.0	24.9	
56 Isobutyl alcohol	43	5.102	5.084	0.018	57	439767	625.0	501.5	
55 Benzene	78	5.084	5.090	-0.006	97	1209360	25.0	24.0	
57 1,2-Dichloroethane	62	5.138	5.139	-0.001	96	556224	25.0	24.6	
59 n-Heptane	43	5.297	5.303	-0.006	96	628291	25.0	29.2	
60 Trichloroethene	95	5.698	5.704	-0.006	93	343141	25.0	25.1	
62 Methylcyclohexane	83	5.838	5.838	0.000	95	586739	25.0	27.1	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	87	326836	25.0	23.9	
64 Dibromomethane	93	6.051	6.057	-0.006	94	218954	25.0	24.1	
66 1,4-Dioxane	88	6.063	6.063	-0.006	92	84614	500.0	501.7	M
67 Dichlorobromomethane	83	6.209	6.209	0.000	95	410998	25.0	24.4	
69 2-Chloroethyl vinyl ether	63	6.495	6.495	0.000	93	210673	25.0	22.6	
71 cis-1,3-Dichloropropene	75	6.629	6.635	-0.006	87	468247	25.0	24.1	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	792463	125.0	118.8	
73 Toluene	92	6.927	6.933	-0.006	97	766727	25.0	23.8	
75 trans-1,3-Dichloropropene	75	7.189	7.189	0.000	94	414998	25.0	24.1	
77 Ethyl methacrylate	69	7.256	7.256	0.000	92	358336	25.0	22.6	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	95	210408	25.0	23.1	
79 Tetrachloroethene	166	7.468	7.469	-0.001	95	359395	25.0	25.5	
80 1,3-Dichloropropane	76	7.541	7.542	-0.001	97	444500	25.0	22.6	
82 2-Hexanone	43	7.614	7.615	-0.001	98	1456364	125.0	118.4	
83 Chlorodibromomethane	129	7.779	7.773	0.006	90	306854	25.0	23.8	
84 Ethylene Dibromide	107	7.876	7.876	0.000	97	284604	25.0	23.7	
85 Chlorobenzene	112	8.369	8.369	0.000	94	886620	25.0	24.2	
89 1,1,1,2-Tetrachloroethane	131	8.460	8.466	-0.006	91	319145	25.0	24.0	
88 Ethylbenzene	91	8.472	8.472	0.000	98	1449579	25.0	24.4	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	562969	25.0	24.9	
91 o-Xylene	106	9.020	9.020	0.000	96	585200	25.0	24.9	
92 Styrene	104	9.044	9.044	0.000	95	943523	25.0	24.9	
93 Bromoform	173	9.269	9.275	-0.006	95	197127	25.0	23.6	
95 Isopropylbenzene	105	9.409	9.409	0.000	96	1526734	25.0	24.2	
97 Bromobenzene	156	9.744	9.744	0.000	91	378905	25.0	23.1	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.786	0.000	96	374447	25.0	22.4	
99 1,2,3-Trichloropropane	110	9.817	9.817	0.000	92	128835	25.0	23.0	
101 trans-1,4-Dichloro-2-buten	53	9.835	9.835	0.000	82	147221	25.0	23.7	
100 N-Propylbenzene	91	9.841	9.841	0.000	99	1728102	25.0	24.0	
102 2-Chlorotoluene	126	9.932	9.939	-0.007	96	376363	25.0	25.2	
104 1,3,5-Trimethylbenzene	105	10.024	10.024	0.000	95	1268759	25.0	24.9	
105 4-Chlorotoluene	91	10.048	10.048	0.000	98	1170515	25.0	24.4	
106 tert-Butylbenzene	134	10.340	10.340	0.000	94	302168	25.0	24.6	
108 1,2,4-Trimethylbenzene	105	10.395	10.395	0.000	98	1285921	25.0	24.2	
109 sec-Butylbenzene	105	10.553	10.553	0.000	94	1648725	25.0	24.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 1,3-Dichlorobenzene	146	10.674	10.675	-0.001	98	748102	25.0	24.4	
111 4-Isopropyltoluene	119	10.693	10.693	0.000	97	1433722	25.0	24.9	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	95	754966	25.0	24.5	
115 n-Butylbenzene	91	11.082	11.082	0.000	98	1280977	25.0	25.1	
116 1,2-Dichlorobenzene	146	11.112	11.113	-0.001	98	733031	25.0	24.7	
117 1,2-Dibromo-3-Chloropropan	75	11.836	11.837	-0.001	78	77758	25.0	24.4	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	94	538608	25.0	27.2	
120 Hexachlorobutadiene	225	12.658	12.658	0.000	93	240591	25.0	26.1	
121 Naphthalene	128	12.737	12.743	-0.006	98	1506278	25.0	26.1	
122 1,2,3-Trichlorobenzene	180	12.944	12.944	0.000	95	498377	25.0	27.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

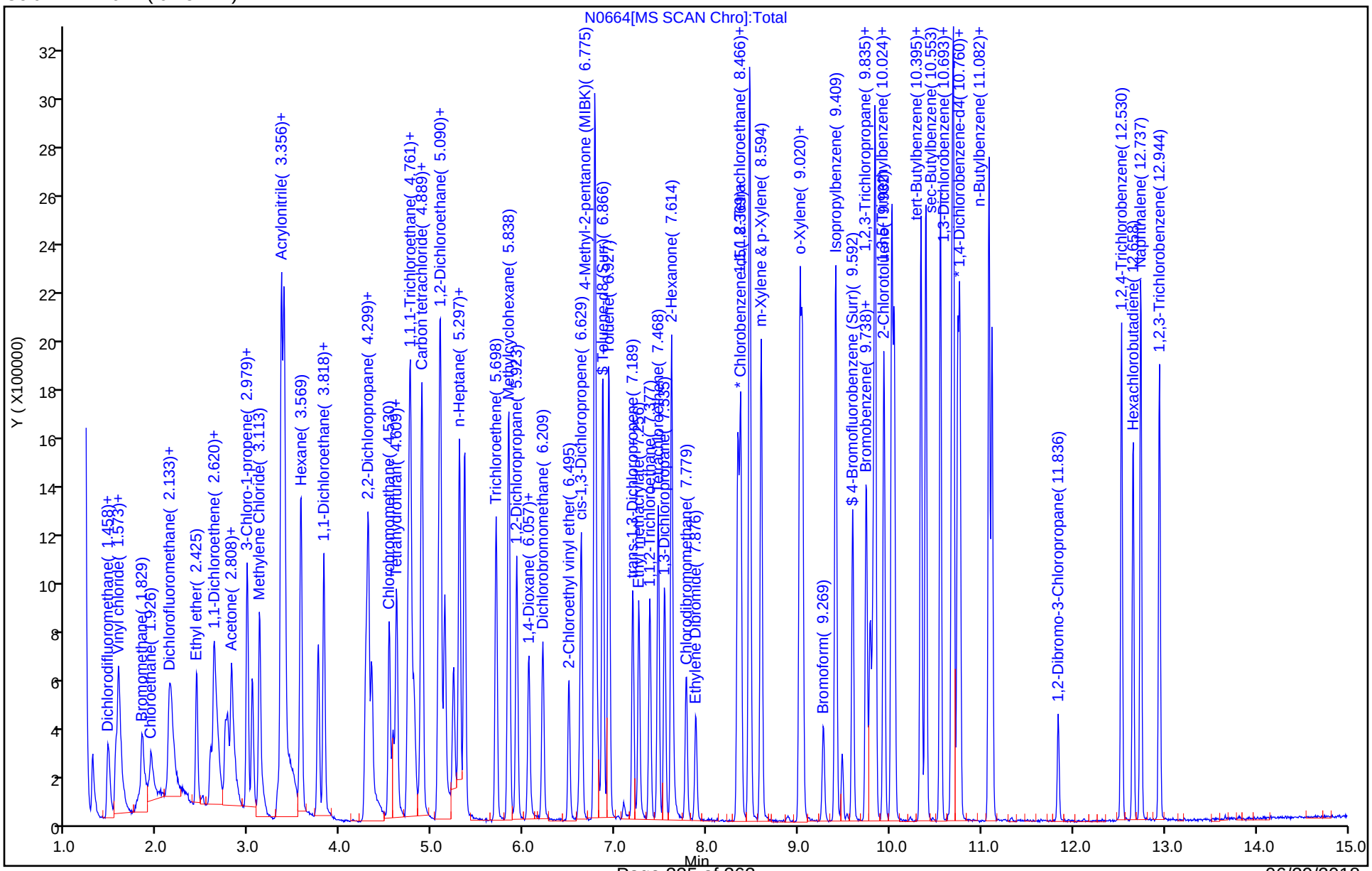
Report Date: 18-Jun-2018 16:45:37 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0664.D

Injection Date:	18-Jun-2018 09:14:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	LCS 480-420017/1-A			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

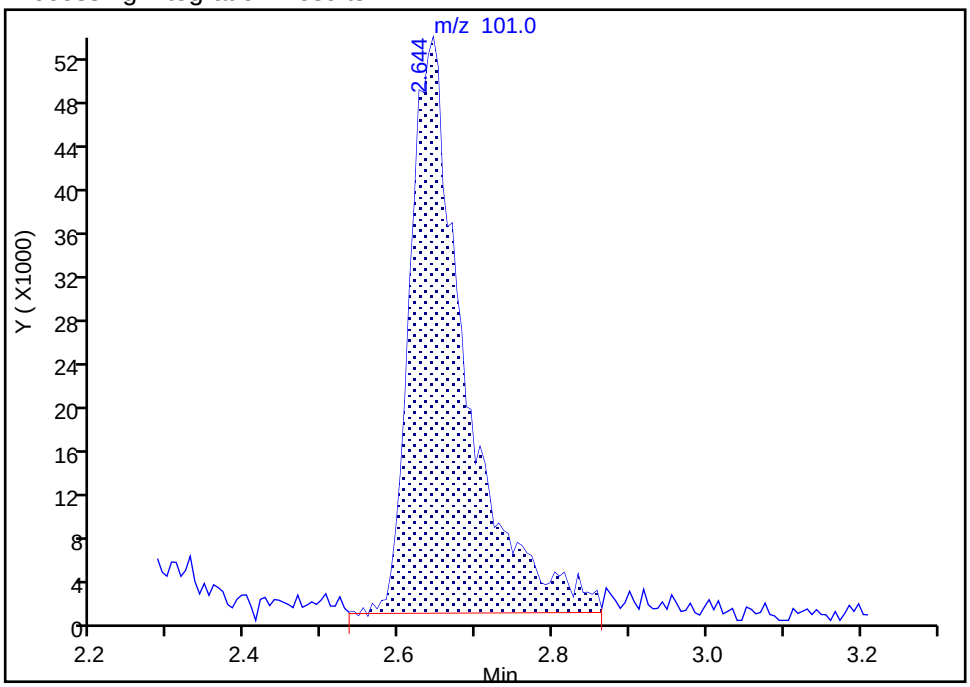
Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180618-72406.b\N0664.D
Injection Date: 18-Jun-2018 09:14:30 Instrument ID: HP5973N
Lims ID: LCS 480-420017/1-A
Client ID:
Operator ID: AM ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: N-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

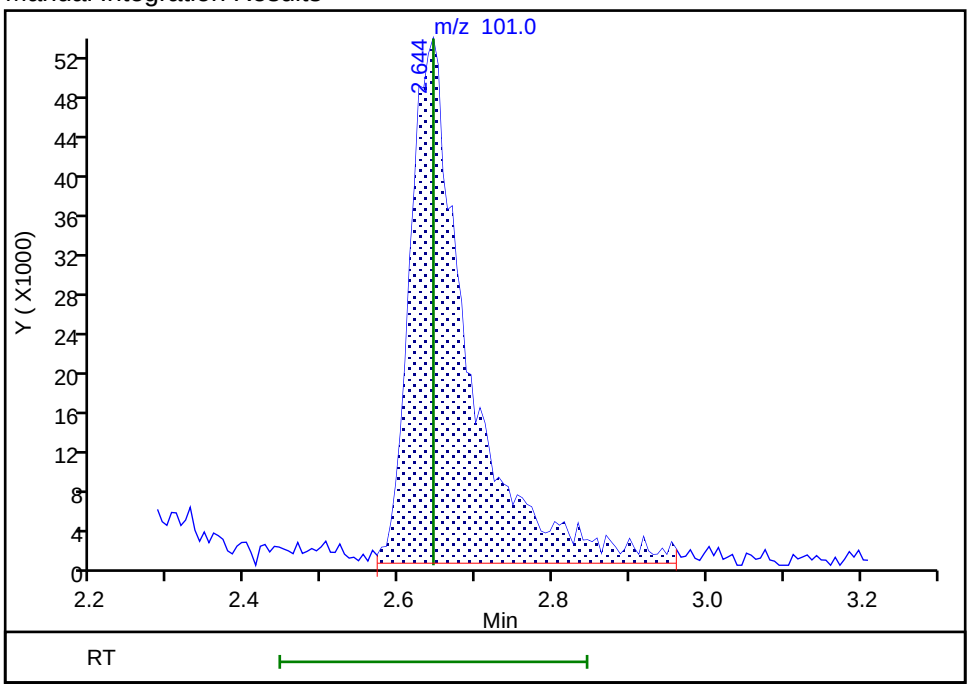
Processing Integration Results

RT: 2.64
Area: 263981
Amount: 25.260978
Amount Units: ug/L



Manual Integration Results

RT: 2.64
Area: 281214
Amount: 26.910046
Amount Units: ug/L



Reviewer: moffata, 18-Jun-2018 13:51:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 MS | Lab Sample ID: 480-137530-4 MS

Matrix: Solid | Lab File ID: N0787.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:45

Sample wt/vol: 4.21(g) | Date Analyzed: 06/20/2018 18:50

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	5700		960	270
79-34-5	1,1,2,2-Tetrachloroethane	4650		960	160
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	4370		960	480
79-00-5	1,1,2-Trichloroethane	5370		960	200
75-34-3	1,1-Dichloroethane	5070		960	300
75-35-4	1,1-Dichloroethene	3770		960	330
120-82-1	1,2,4-Trichlorobenzene	5730		960	360
96-12-8	1,2-Dibromo-3-Chloropropane	4780		960	480
95-50-1	1,2-Dichlorobenzene	7130		960	240
107-06-2	1,2-Dichloroethane	5700		960	390
78-87-5	1,2-Dichloropropane	5660		960	160
541-73-1	1,3-Dichlorobenzene	5860		960	260
106-46-7	1,4-Dichlorobenzene	5880		960	130
78-93-3	2-Butanone (MEK)	37300		4800	2800
591-78-6	2-Hexanone	37900		4800	2000
108-10-1	4-Methyl-2-pentanone (MIBK)	30200		4800	310
67-64-1	Acetone	50200		4800	3900
71-43-2	Benzene	5260		960	180
75-25-2	Bromoform	3690		960	480
74-83-9	Bromomethane	4100		960	210
75-15-0	Carbon disulfide	3950		960	440
56-23-5	Carbon tetrachloride	5160		960	240
108-90-7	Chlorobenzene	5380		960	130
124-48-1	Dibromochloromethane	4850		960	460
75-00-3	Chloroethane	5170		960	200
67-66-3	Chloroform	5230		960	660
74-87-3	Chloromethane	4510		960	230
156-59-2	cis-1,2-Dichloroethene	6640		960	260
110-82-7	Cyclohexane	4640		960	210
75-27-4	Bromodichloromethane	5540		960	190
75-71-8	Dichlorodifluoromethane	4220		960	420
100-41-4	Ethylbenzene	6070		960	280
106-93-4	1,2-Dibromoethane	5390		960	170
98-82-8	Isopropylbenzene	5550		960	140
79-20-9	Methyl acetate	12000		4800	460

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 MS | Lab Sample ID: 480-137530-4 MS

Matrix: Solid | Lab File ID: N0787.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:45

Sample wt/vol: 4.21(g) | Date Analyzed: 06/20/2018 18:50

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	5300		960	360
108-87-2	Methylcyclohexane	4700		960	450
75-09-2	Methylene Chloride	4100		960	190
127-18-4	Tetrachloroethene	36400		960	130
108-88-3	Toluene	7730		960	260
156-60-5	trans-1,2-Dichloroethene	4360		960	230
10061-02-6	trans-1,3-Dichloropropene	4960		960	94
79-01-6	Trichloroethene	85900		960	270
75-69-4	Trichlorofluoromethane	5240		960	450
75-01-4	Vinyl chloride	4250		960	320
1330-20-7	Xylenes, Total	15200		1900	530
10061-01-5	cis-1,3-Dichloropropene	4860		960	230
100-42-5	Styrene	5690		960	230

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		53-146
460-00-4	4-Bromofluorobenzene (Surr)	105		49-148
2037-26-5	Toluene-d8 (Surr)	96		50-149
1868-53-7	Dibromofluoromethane (Surr)	103		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0787.D
Lims ID: 480-137530-B-4-B MS
Client ID: PDI-7-SO-17-06132018
Sample Type: MS
Inject. Date: 20-Jun-2018 18:50:30 ALS Bottle#: 19 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-137530-B-4-B MS
Misc. Info.: 480-0072463-029
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2018 19:45:30 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: HillL Date: 28-Jun-2018 11:11:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.357	5.358	-0.001	97	197487	2.50	25.0	
* 2 Chlorobenzene-d5	117	8.338	8.339	-0.001	87	783425	2.50	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.741	10.742	-0.001	91	404069	2.50	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.761	4.756	0.000	83	289513	25.0	25.7	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.065	5.066	-0.001	0	379550	25.0	27.0	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	84	992972	25.0	24.0	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	91	339773	25.0	26.3	
11 Dichlorodifluoromethane	85	1.294	1.300	-0.006	82	52136	5.00	4.40	
13 Chloromethane	50	1.470	1.464	0.006	87	77079	5.00	4.70	M
14 Vinyl chloride	62	1.549	1.549	0.000	71	60937	5.00	4.43	
15 Bromomethane	94	1.853	1.860	-0.007	75	32301	5.00	4.27	
16 Chloroethane	64	1.932	1.939	-0.007	76	37393	5.00	5.39	
18 Trichlorofluoromethane	101	2.151	2.146	0.005	71	85382	5.00	5.46	
22 1,1-Dichloroethene	96	2.638	2.632	0.006	78	40440	5.00	3.93	
21 1,1,2-Trichloro-1,2,2-trif	101	2.668	2.657	0.011	60	42572	5.00	4.56	
23 Acetone	43	2.735	2.730	0.005	93	207406	25.0	52.4	
25 Carbon disulfide	76	2.821	2.827	-0.006	98	130798	5.00	4.12	
28 Methyl acetate	43	3.040	3.028	0.012	97	171561	10.0	12.5	
30 Methylene Chloride	84	3.125	3.119	0.006	87	62283	5.00	4.28	
32 Methyl tert-butyl ether	73	3.356	3.350	0.006	90	211431	5.00	5.53	
33 trans-1,2-Dichloroethene	96	3.356	3.362	-0.006	60	55111	5.00	4.54	
36 1,1-Dichloroethane	63	3.764	3.764	0.000	83	120541	5.00	5.28	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	71	92111	5.00	6.92	
44 2-Butanone (MEK)	43	4.341	4.330	0.011	92	282160	25.0	38.9	
50 Chloroform	83	4.615	4.609	0.006	79	115278	5.00	5.45	
51 1,1,1-Trichloroethane	97	4.743	4.743	0.000	86	104660	5.00	5.94	
52 Cyclohexane	56	4.761	4.768	-0.007	49	102285	5.00	4.84	
53 Carbon tetrachloride	117	4.889	4.889	0.000	67	80583	5.00	5.38	
55 Benzene	78	5.090	5.090	0.000	91	246961	5.00	5.48	
57 1,2-Dichloroethane	62	5.138	5.139	-0.001	70	120278	5.00	5.95	
60 Trichloroethene	95	5.698	5.704	-0.006	89	1095700	5.00	89.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.844	5.838	0.006	90	94911	5.00	4.89	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	80	72165	5.00	5.89	
67 Dichlorobromomethane	83	6.209	6.209	0.000	87	87127	5.00	5.77	
71 cis-1,3-Dichloropropene	75	6.629	6.629	0.000	82	87972	5.00	5.07	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	98	197359	25.0	31.5	
73 Toluene	92	6.927	6.933	-0.006	91	243217	5.00	8.06	
75 trans-1,3-Dichloropropene	75	7.195	7.189	0.006	87	83680	5.00	5.17	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	84	47952	5.00	5.60	
79 Tetrachloroethene	166	7.468	7.469	-0.001	88	501740	5.00	37.9	
82 2-Hexanone	43	7.614	7.609	0.005	99	456710	25.0	39.6	
83 Chlorodibromomethane	129	7.773	7.773	0.000	80	61284	5.00	5.06	
84 Ethylene Dibromide	107	7.876	7.882	-0.006	92	63300	5.00	5.62	
85 Chlorobenzene	112	8.369	8.369	0.000	75	192753	5.00	5.61	
88 Ethylbenzene	91	8.472	8.472	0.000	98	352760	5.00	6.32	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	196394		9.25	
91 o-Xylene	106	9.020	9.020	0.000	95	145812		6.60	
92 Styrene	104	9.044	9.044	0.000	91	210986	5.00	5.93	
93 Bromoform	173	9.269	9.275	-0.006	83	30108	5.00	3.85	
95 Isopropylbenzene	105	9.409	9.409	0.000	96	335247	5.00	5.79	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.780	0.006	81	74355	5.00	4.85	
110 1,3-Dichlorobenzene	146	10.674	10.675	-0.001	97	171368	5.00	6.11	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	93	173172	5.00	6.13	
116 1,2-Dichlorobenzene	146	11.112	11.113	-0.001	93	201964	5.00	7.43	
117 1,2-Dibromo-3-Chloropropan	75	11.836	11.831	0.005	47	14541	5.00	4.98	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	91	108473	5.00	5.97	
S 126 Xylenes, Total	1				0			15.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

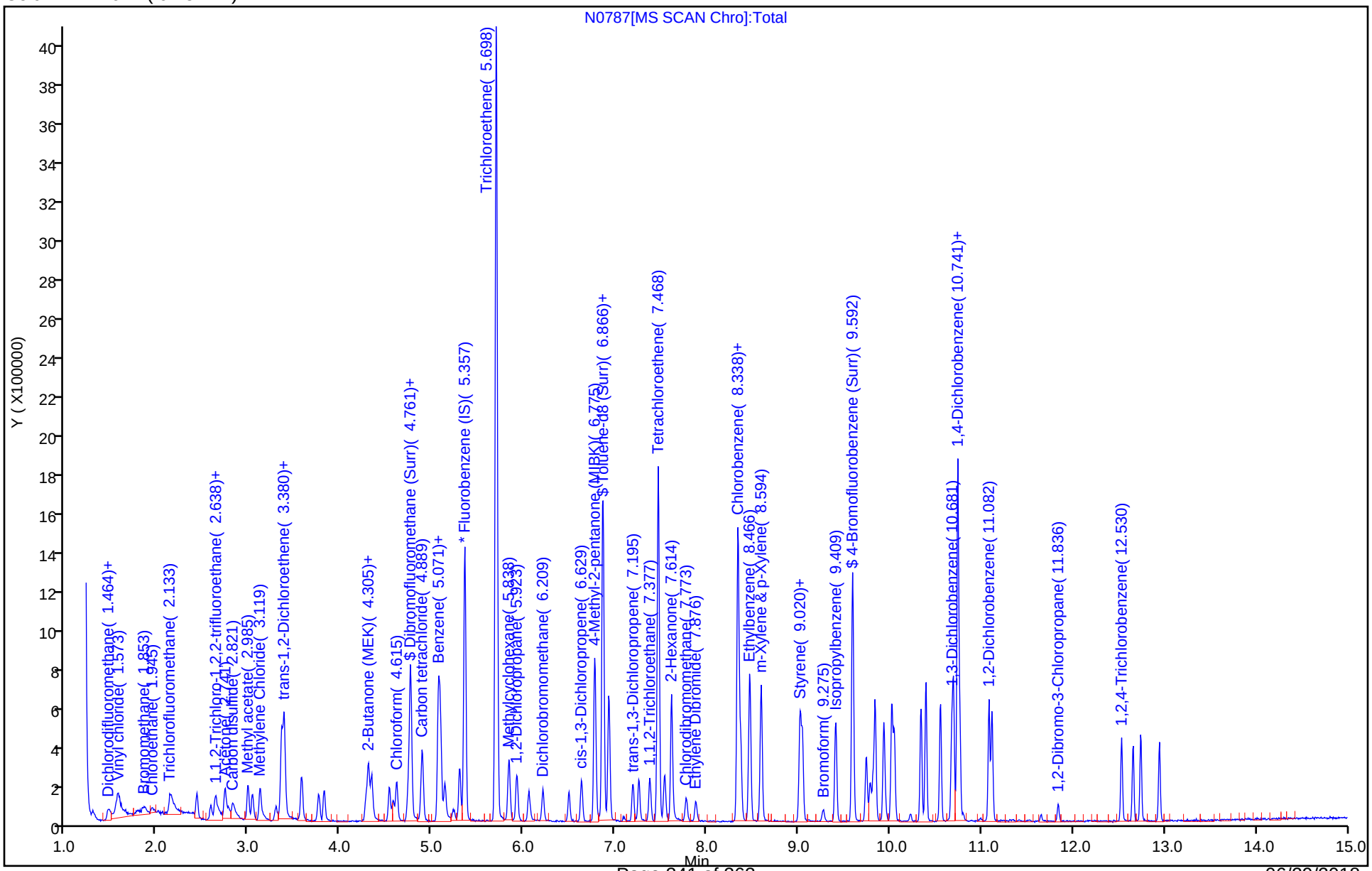
Report Date: 28-Jun-2018 11:11:07 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0787.D

Injection Date:	20-Jun-2018 18:50:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	480-137530-B-4-B MS			Worklist Smp#:	29
Client ID:	PDI-7-SO-17-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	19
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

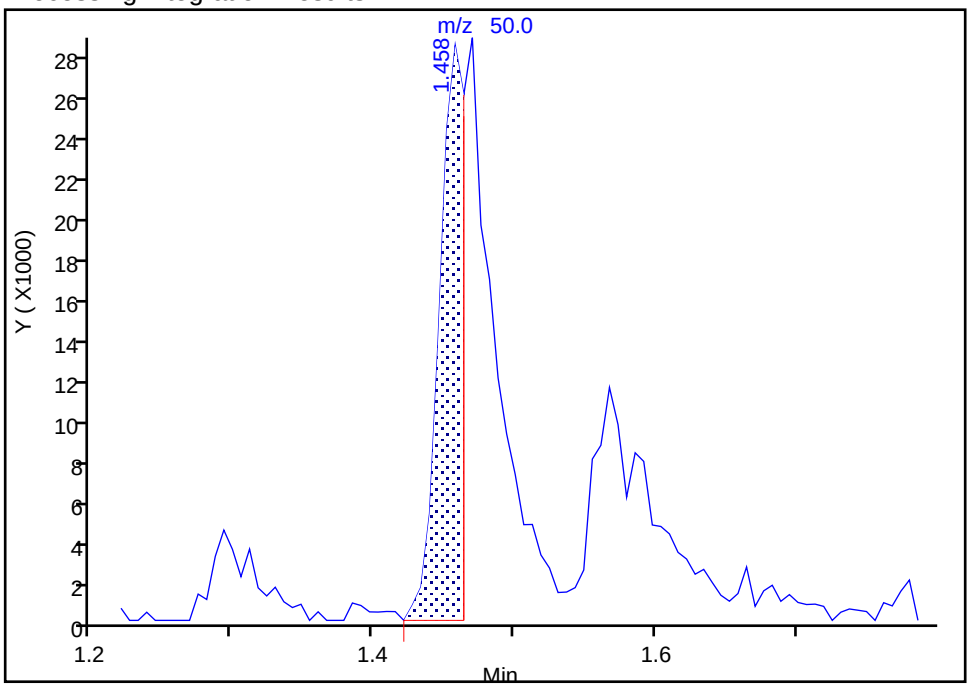
Data File:	\\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0787.D				
Injection Date:	20-Jun-2018 18:50:30	Instrument ID:	HP5973N		
Lims ID:	480-137530-B-4-B MS				
Client ID:	PDI-7-SO-17-06132018				
Operator ID:	AM	ALS Bottle#:	19	Worklist Smp#:	29
Purge Vol:	5.000 mL	Dil. Factor:	10.0000		
Method:	N-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

13 Chloromethane, CAS: 74-87-3

Signal: 1

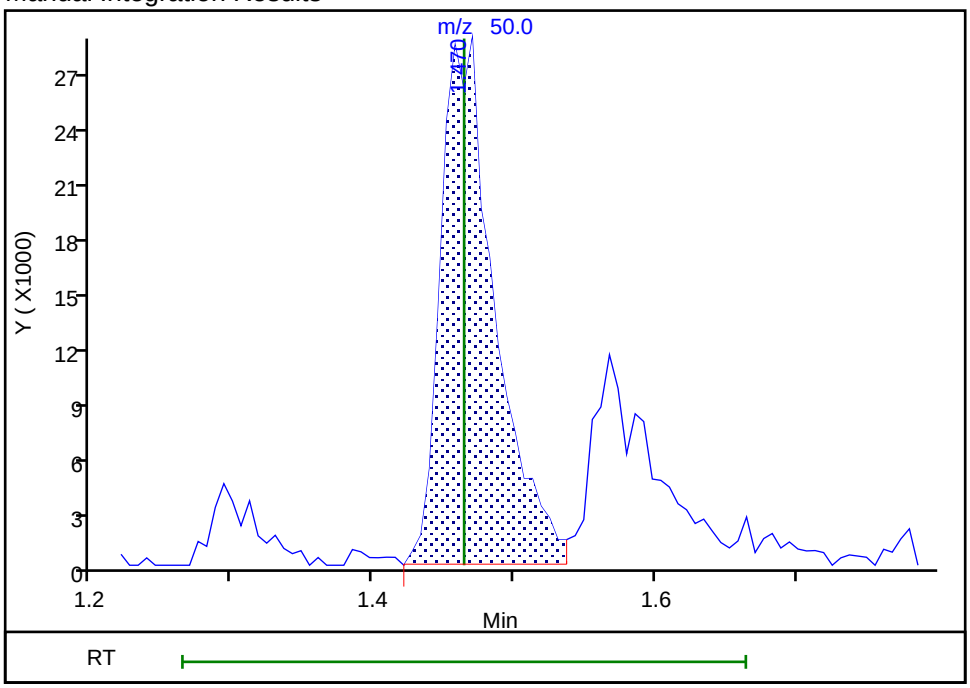
Processing Integration Results

RT: 1.46
Area: 36643
Amount: 2.235107
Amount Units: ug/L



Manual Integration Results

RT: 1.47
Area: 77079
Amount: 4.701575
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 19:19:45

Audit Action: Manually Integrated Audit Reason: Baseline

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 MSD | Lab Sample ID: 480-137530-4 MSD

Matrix: Solid | Lab File ID: N0788.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:50

Sample wt/vol: 5.655(g) | Date Analyzed: 06/20/2018 19:17

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	4560		760	210
79-34-5	1,1,2,2-Tetrachloroethane	3750		760	120
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	3720		760	380
79-00-5	1,1,2-Trichloroethane	4660		760	160
75-34-3	1,1-Dichloroethane	4080		760	230
75-35-4	1,1-Dichloroethene	3220		760	260
120-82-1	1,2,4-Trichlorobenzene	4470		760	290
96-12-8	1,2-Dibromo-3-Chloropropane	3280		760	380
95-50-1	1,2-Dichlorobenzene	5550		760	190
107-06-2	1,2-Dichloroethane	4720		760	310
78-87-5	1,2-Dichloropropane	4250		760	120
541-73-1	1,3-Dichlorobenzene	4490		760	200
106-46-7	1,4-Dichlorobenzene	4460		760	110
78-93-3	2-Butanone (MEK)	30600		3800	2200
591-78-6	2-Hexanone	30100		3800	1600
108-10-1	4-Methyl-2-pentanone (MIBK)	25100		3800	240
67-64-1	Acetone	40900		3800	3100
71-43-2	Benzene	3930		760	140
75-25-2	Bromoform	3020		760	380
74-83-9	Bromomethane	3390		760	170
75-15-0	Carbon disulfide	3190		760	340
56-23-5	Carbon tetrachloride	4160		760	190
108-90-7	Chlorobenzene	4210		760	100
124-48-1	Dibromochloromethane	3510		760	370
75-00-3	Chloroethane	3950		760	160
67-66-3	Chloroform	4260		760	520
74-87-3	Chloromethane	3550		760	180
156-59-2	cis-1,2-Dichloroethene	5190		760	210
110-82-7	Cyclohexane	4350		760	170
75-27-4	Bromodichloromethane	4210		760	150
75-71-8	Dichlorodifluoromethane	3270		760	330
100-41-4	Ethylbenzene	4630		760	220
106-93-4	1,2-Dibromoethane	4460		760	130
98-82-8	Isopropylbenzene	4350		760	110
79-20-9	Methyl acetate	9070		3800	360

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137530-1

SDG No.:

Client Sample ID: PDI-7-SO-17-06132018 MSD | Lab Sample ID: 480-137530-4 MSD

Matrix: Solid | Lab File ID: N0788.D

Analysis Method: 8260C | Date Collected: 06/13/2018 09:50

Sample wt/vol: 5.655(g) | Date Analyzed: 06/20/2018 19:17

Soil Aliquot Vol: 100 (uL) | Dilution Factor: 10

Soil Extract Vol.: 5(mL) | GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: 25.0 | Level: (low/med) Medium

Analysis Batch No.: 420526 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	4110		760	290
108-87-2	Methylcyclohexane	3800		760	350
75-09-2	Methylene Chloride	3670		760	150
127-18-4	Tetrachloroethene	28000		760	100
108-88-3	Toluene	6000		760	200
156-60-5	trans-1,2-Dichloroethene	3700		760	180
10061-02-6	trans-1,3-Dichloropropene	3820		760	74
79-01-6	Trichloroethene	66900		760	210
75-69-4	Trichlorofluoromethane	4030		760	350
75-01-4	Vinyl chloride	3450		760	250
1330-20-7	Xylenes, Total	11600		1500	420
10061-01-5	cis-1,3-Dichloropropene	3770		760	180
100-42-5	Styrene	4470		760	180

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		53-146
460-00-4	4-Bromofluorobenzene (Surr)	103		49-148
2037-26-5	Toluene-d8 (Surr)	97		50-149
1868-53-7	Dibromofluoromethane (Surr)	102		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0788.D
Lims ID: 480-137530-B-4-C MSD
Client ID: PDI-7-SO-17-06132018
Sample Type: MSD
Inject. Date: 20-Jun-2018 19:17:30 ALS Bottle#: 20 Worklist Smp#: 30
Purge Vol: 5.000 mL Dil. Factor: 10.0000
Sample Info: 480-137530-B-4-C MSD
Misc. Info.: 480-0072463-030
Operator ID: AM Instrument ID: HP5973N

Method: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 20-Jun-2018 19:45:30 Calib Date: 15-Jun-2018 21:59:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973N\20180615-72372.b\N0627.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK053

First Level Reviewer: nowakk Date: 20-Jun-2018 19:43:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 147 Fluorobenzene (IS)	70	5.352	5.358	-0.006	97	198525	2.50	25.0	
* 2 Chlorobenzene-d5	117	8.339	8.339	0.000	88	782568	2.50	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.742	10.742	0.000	95	406780	2.50	25.0	
$ 148 Dibromofluoromethane (Surr	113	4.768	4.756	0.007	94	288766	25.0	25.5	
$ 5 1,2-Dichloroethane-d4 (Sur	65	5.066	5.066	0.000	0	386589	25.0	27.4	
$ 6 Toluene-d8 (Surr)	98	6.866	6.866	0.000	95	1003875	25.0	24.3	
$ 7 4-Bromofluorobenzene (Surr	174	9.592	9.592	0.000	90	332793	25.0	25.8	
11 Dichlorodifluoromethane	85	1.294	1.300	-0.006	98	51506	5.00	4.32	
13 Chloromethane	50	1.464	1.464	0.000	98	77217	5.00	4.69	
14 Vinyl chloride	62	1.543	1.549	-0.006	98	62947	5.00	4.56	
15 Bromomethane	94	1.847	1.860	-0.013	94	34070	5.00	4.48	
16 Chloroethane	64	1.945	1.939	0.006	93	36335	5.00	5.21	
18 Trichlorofluoromethane	101	2.152	2.146	0.006	73	83693	5.00	5.32	
22 1,1-Dichloroethene	96	2.632	2.632	0.000	95	43915	5.00	4.25	
21 1,1,2-Trichloro-1,2,2-trif	101	2.657	2.657	0.000	63	46173	5.00	4.91	
23 Acetone	43	2.736	2.730	0.006	98	215277	25.0	54.1	
25 Carbon disulfide	76	2.827	2.827	0.000	98	134262	5.00	4.21	
28 Methyl acetate	43	3.034	3.028	0.006	100	165792	10.0	12.0	
30 Methylene Chloride	84	3.119	3.119	0.000	92	69612	5.00	4.85	
32 Methyl tert-butyl ether	73	3.356	3.350	0.006	98	208679	5.00	5.43	
33 trans-1,2-Dichloroethene	96	3.362	3.362	0.000	74	59569	5.00	4.88	
36 1,1-Dichloroethane	63	3.764	3.764	0.000	97	123684	5.00	5.39	
43 cis-1,2-Dichloroethene	96	4.305	4.305	0.000	86	91855	5.00	6.86	
44 2-Butanone (MEK)	43	4.336	4.330	0.006	97	295442	25.0	40.5	
50 Chloroform	83	4.609	4.609	0.000	94	119523	5.00	5.62	
51 1,1,1-Trichloroethane	97	4.737	4.743	-0.006	95	106804	5.00	6.03	
52 Cyclohexane	56	4.761	4.768	-0.007	50	122020	5.00	5.74	
53 Carbon tetrachloride	117	4.889	4.889	0.000	80	82776	5.00	5.50	
55 Benzene	78	5.090	5.090	0.000	94	235122	5.00	5.19	
57 1,2-Dichloroethane	62	5.139	5.139	0.000	95	126697	5.00	6.23	
60 Trichloroethene	95	5.698	5.704	-0.006	92	1087856	5.00	88.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.832	5.838	-0.006	95	97855	5.00	5.02	
63 1,2-Dichloropropane	63	5.923	5.923	0.000	83	69066	5.00	5.61	
67 Dichlorobromomethane	83	6.209	6.209	0.000	94	84446	5.00	5.57	
71 cis-1,3-Dichloropropene	75	6.635	6.629	0.006	83	86842	5.00	4.97	
72 4-Methyl-2-pentanone (MIBK	58	6.775	6.775	0.000	99	207223	25.0	33.1	
73 Toluene	92	6.933	6.933	0.000	97	238909	5.00	7.92	
75 trans-1,3-Dichloropropene	75	7.195	7.189	0.006	91	81588	5.00	5.05	
78 1,1,2-Trichloroethane	83	7.377	7.377	0.000	92	52652	5.00	6.15	
79 Tetrachloroethene	166	7.469	7.469	0.000	95	488658	5.00	37.0	
82 2-Hexanone	43	7.615	7.609	0.006	97	458641	25.0	39.8	
83 Chlorodibromomethane	129	7.773	7.773	0.000	92	56195	5.00	4.64	
84 Ethylene Dibromide	107	7.876	7.882	-0.006	99	66303	5.00	5.89	
85 Chlorobenzene	112	8.369	8.369	0.000	94	190695	5.00	5.56	
88 Ethylbenzene	91	8.472	8.472	0.000	98	340831	5.00	6.12	
90 m-Xylene & p-Xylene	106	8.594	8.594	0.000	0	190659		8.99	
91 o-Xylene	106	9.014	9.020	-0.006	96	140051		6.35	
92 Styrene	104	9.044	9.044	0.000	95	209804	5.00	5.90	
93 Bromoform	173	9.269	9.275	-0.006	93	31226	5.00	4.00	
95 Isopropylbenzene	105	9.409	9.409	0.000	97	335177	5.00	5.75	
98 1,1,2,2-Tetrachloroethane	83	9.786	9.780	0.006	94	76565	5.00	4.96	
110 1,3-Dichlorobenzene	146	10.681	10.675	0.006	97	167393	5.00	5.93	
113 1,4-Dichlorobenzene	146	10.766	10.766	0.000	96	167670	5.00	5.89	
116 1,2-Dichlorobenzene	146	11.113	11.113	0.000	97	200606	5.00	7.33	
117 1,2-Dibromo-3-Chloropropan	75	11.837	11.831	0.006	72	12720	5.00	4.33	
119 1,2,4-Trichlorobenzene	180	12.530	12.530	0.000	92	108020	5.00	5.91	
S 126 Xylenes, Total	1				0			15.3	

Reagents:

N_8260_Surr_00330	Amount Added:	1.00	Units: uL	Run Reagent
N 8260 IS_00116	Amount Added:	1.00	Units: uL	Run Reagent

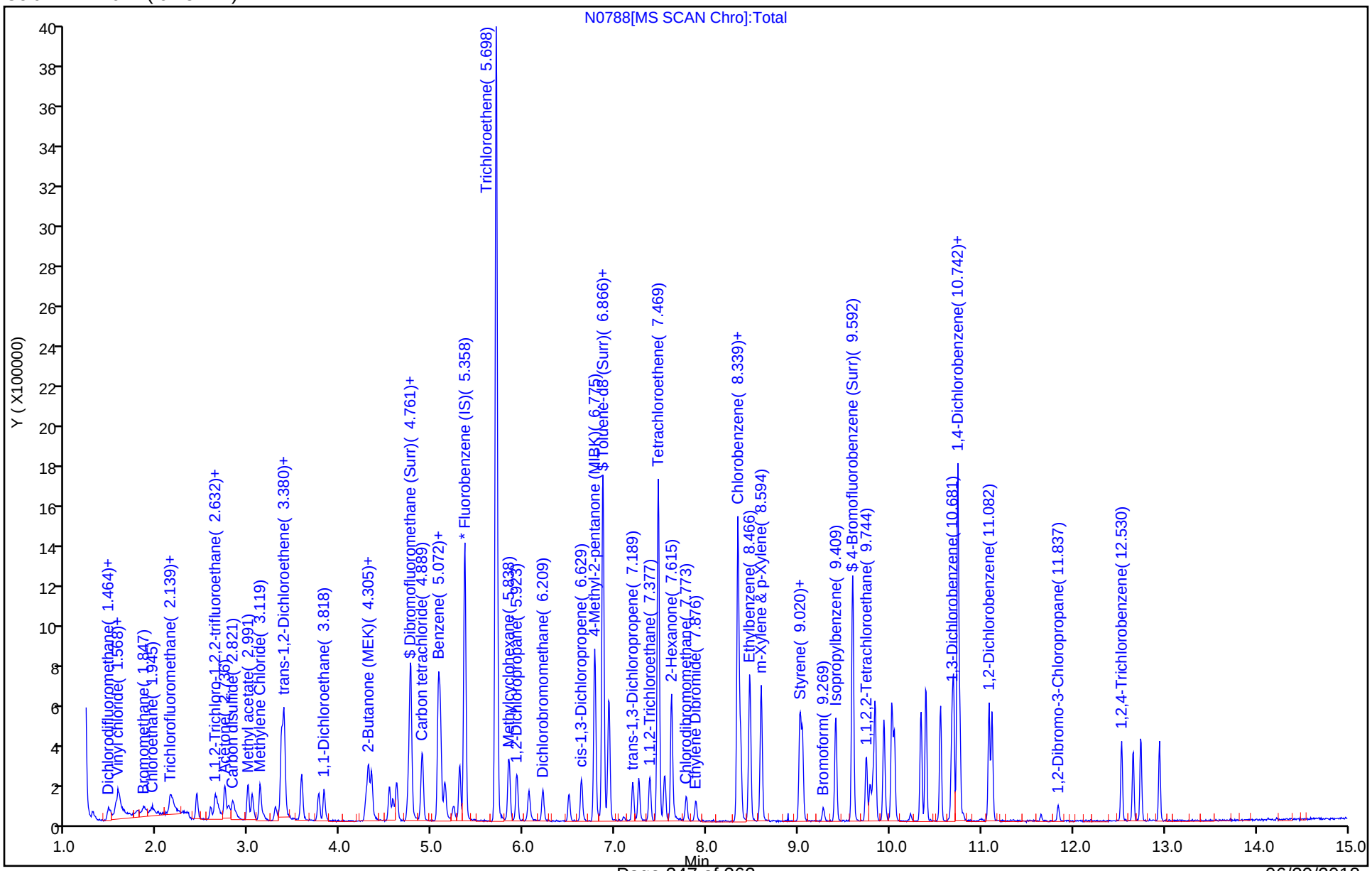
Report Date: 28-Jun-2018 11:11:11 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973N\20180620-72463.b\N0788.D

Injection Date:	20-Jun-2018 19:17:30	Instrument ID:	HP5973N	Operator ID:	AM
Lims ID:	480-137530-B-4-C MSD			Worklist Smp#:	30
Client ID:	PDI-7-SO-17-06132018				
Purge Vol:	5.000 mL	Dil. Factor:	10.0000	ALS Bottle#:	20
Method:	N-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: HP5973F Start Date: 05/08/2018 12:17

Analysis Batch Number: 413081 End Date: 05/08/2018 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-413081/4		05/08/2018 12:17	1	F2156.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/6		05/08/2018 13:08	1	F2158.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/7		05/08/2018 13:33	1	F2159.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/8		05/08/2018 13:59	1	F2160.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/9		05/08/2018 14:25	1	F2161.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-413081/10		05/08/2018 14:50	1	F2162.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/11		05/08/2018 15:15	1	F2163.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/12		05/08/2018 15:41	1	F2164.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/14		05/08/2018 16:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/15		05/08/2018 16:58	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/16		05/08/2018 17:24	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/17		05/08/2018 17:50	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/18		05/08/2018 18:16	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/19		05/08/2018 18:41	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/20		05/08/2018 19:07	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/22		05/08/2018 19:59	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/23		05/08/2018 20:24	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/24		05/08/2018 20:50	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/25		05/08/2018 21:16	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: HP5973F Start Date: 06/16/2018 07:38

Analysis Batch Number: 419970 End Date: 06/16/2018 16:12

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-419970/2		06/16/2018 07:38	1	F2855.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-419970/3		06/16/2018 08:05	1	F2856.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-419970/4		06/16/2018 08:43	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-419967/16-A		06/16/2018 09:50	1	F2859.D	ZB-624 (30) VOA 0.25(mm)
MB 480-419967/2-A		06/16/2018 10:52	1	F2861.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 11:29	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 11:55	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 12:21	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 12:46	1		ZB-624 (30) VOA 0.25(mm)
480-137530-1		06/16/2018 13:12	1	F2866.D	ZB-624 (30) VOA 0.25(mm)
480-137530-2		06/16/2018 13:38	1	F2867.D	ZB-624 (30) VOA 0.25(mm)
480-137530-3		06/16/2018 14:03	1	F2868.D	ZB-624 (30) VOA 0.25(mm)
480-137530-5		06/16/2018 14:29	1	F2869.D	ZB-624 (30) VOA 0.25(mm)
480-137530-6		06/16/2018 14:55	1	F2870.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 15:21	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 15:47	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/16/2018 16:12	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: HP5973N Start Date: 06/15/2018 12:58

Analysis Batch Number: 419847 End Date: 06/15/2018 23:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-419847/5		06/15/2018 12:58	1	N0607.D	ZB-624 (20) 0.18(mm)
IC 480-419847/7		06/15/2018 13:52	1	N0609.D	ZB-624 (20) 0.18(mm)
IC 480-419847/8		06/15/2018 14:19	1	N0610.D	ZB-624 (20) 0.18(mm)
IC 480-419847/9		06/15/2018 14:46	1	N0611.D	ZB-624 (20) 0.18(mm)
IC 480-419847/10		06/15/2018 15:13	1	N0612.D	ZB-624 (20) 0.18(mm)
IC 480-419847/11		06/15/2018 15:40	1	N0613.D	ZB-624 (20) 0.18(mm)
ICIS 480-419847/12		06/15/2018 16:07	1	N0614.D	ZB-624 (20) 0.18(mm)
IC 480-419847/13		06/15/2018 16:34	1	N0615.D	ZB-624 (20) 0.18(mm)
IC 480-419847/14		06/15/2018 17:01	1	N0616.D	ZB-624 (20) 0.18(mm)
MDLV 480-419847/16		06/15/2018 17:55	1		ZB-624 (20) 0.18(mm)
MDLV 480-419847/17		06/15/2018 18:22	1		ZB-624 (20) 0.18(mm)
IC 480-419847/19		06/15/2018 19:16	1		ZB-624 (20) 0.18(mm)
IC 480-419847/20		06/15/2018 19:43	1		ZB-624 (20) 0.18(mm)
IC 480-419847/21		06/15/2018 20:11	1		ZB-624 (20) 0.18(mm)
IC 480-419847/22		06/15/2018 20:38	1		ZB-624 (20) 0.18(mm)
IC 480-419847/23		06/15/2018 21:05	1		ZB-624 (20) 0.18(mm)
IC 480-419847/24		06/15/2018 21:32	1		ZB-624 (20) 0.18(mm)
IC 480-419847/25		06/15/2018 21:59	1		ZB-624 (20) 0.18(mm)
MDLV 480-419847/27		06/15/2018 22:54	1		ZB-624 (20) 0.18(mm)
ICV 480-419847/28		06/15/2018 23:21	1		ZB-624 (20) 0.18(mm)
ICV 480-419847/29		06/15/2018 23:48	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: HP5973N Start Date: 06/18/2018 07:30

Analysis Batch Number: 420097 End Date: 06/18/2018 18:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420097/2		06/18/2018 07:30	1	N0660.D	ZB-624 (20) 0.18(mm)
CCVIS 480-420097/3		06/18/2018 07:53	1	N0661.D	ZB-624 (20) 0.18(mm)
CCV 480-420097/4		06/18/2018 08:20	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 08:47	1		ZB-624 (20) 0.18(mm)
LCS 480-420017/1-A		06/18/2018 09:14	1	N0664.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 10:08	1		ZB-624 (20) 0.18(mm)
MB 480-420017/2-A		06/18/2018 10:35	1	N0667.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 11:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 11:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 12:02	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 12:29	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 12:56	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 13:23	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 13:50	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 14:18	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 14:45	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 15:12	1		ZB-624 (20) 0.18(mm)
480-137530-4		06/18/2018 15:39	10	N0678.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 16:06	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 16:33	4		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 17:00	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 17:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 17:54	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 18:21	10		ZB-624 (20) 0.18(mm)
ZZZZZ		06/18/2018 18:48	10		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: HP5973N Start Date: 06/20/2018 07:55

Analysis Batch Number: 420526 End Date: 06/20/2018 19:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420526/2		06/20/2018 07:55	1	N0763.D	ZB-624 (20) 0.18(mm)
CCVIS 480-420526/3		06/20/2018 08:19	1	N0764.D	ZB-624 (20) 0.18(mm)
CCV 480-420526/4		06/20/2018 08:45	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 09:13	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 10:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 10:44	400		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 11:11	2		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 11:39	40		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 12:06	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 12:33	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 13:00	2		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 13:27	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 13:54	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 14:21	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 14:47	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 15:15	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 15:41	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 16:08	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 16:35	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 17:03	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 17:29	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 17:56	2		ZB-624 (20) 0.18(mm)
ZZZZZ		06/20/2018 18:23	2		ZB-624 (20) 0.18(mm)
480-137530-4 MS		06/20/2018 18:50	10	N0787.D	ZB-624 (20) 0.18(mm)
480-137530-4 MSD		06/20/2018 19:17	10	N0788.D	ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Batch Number: 419967 Batch Start Date: 06/16/18 06:36 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 06/16/18 09:36

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00126	GAS CORP mix 00286
MB 480-419967/2		5035A_L, 8260C		25.53 g	30.53 g	5 g	5 mL		
480-137530-C-1	PDI-6-SO-14-0613 2018	5035A_L, 8260C	T	+030.899 g	37.94 g	7.041 g	5 mL		
480-137530-C-2	PDI-6-SO-16-0613 2018	5035A_L, 8260C	T	+030.701 g	37.27 g	6.569 g	5 mL		
480-137530-C-3	PDI-106-SO-16-06 132018	5035A_L, 8260C	T	+030.901 g	37.29 g	6.389 g	5 mL		
480-137530-D-5	PDI-8-SO-17-0613 18	5035A_L, 8260C	T	+030.872 g	37.72 g	6.848 g	5 mL		
480-137530-C-6	PDI-9-SO-17-0613 18	5035A_L, 8260C	T	+030.815 g	37.85 g	7.035 g	5 mL		
LCS 480-419967/16		5035A_L, 8260C		25.63 g	30.63 g	5 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-419967/2		5035A_L, 8260C							
480-137530-C-1	PDI-6-SO-14-0613 2018	5035A_L, 8260C	T	TC					
480-137530-C-2	PDI-6-SO-16-0613 2018	5035A_L, 8260C	T	TC					
480-137530-C-3	PDI-106-SO-16-06 132018	5035A_L, 8260C	T	TC					
480-137530-D-5	PDI-8-SO-17-0613 18	5035A_L, 8260C	T	TC					
480-137530-C-6	PDI-9-SO-17-0613 18	5035A_L, 8260C	T	TC					
LCS 480-419967/16		5035A_L, 8260C							

Batch Notes	
Balance ID	b202613314
Batch Comment	sandlot_00005

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Batch Number: 420017 Batch Start Date: 06/16/18 12:07 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_H Batch End Date: 06/16/18 15:07

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00127	GAS CORP mix 00287
LCS 480-420017/1		5035A_H, 8260C		19.64 g	24.64 g	5 g	10 mL	125 uL	125 uL
MB 480-420017/2		5035A_H, 8260C		19.63 g	24.63 g	5 g	10 mL		
480-137530-B-4	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	+028.667 g	34.38 g	5.713 g	5 mL		
480-137530-B-4 MS	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	+028.720 g	32.93 g	4.21 g	5 mL	125 uL	125 uL
480-137530-B-4 MSD	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	+028.695 g	34.35 g	5.655 g	5 mL	125 uL	125 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-420017/1		5035A_H, 8260C							
MB 480-420017/2		5035A_H, 8260C							
480-137530-B-4	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	TC ML 1st					
480-137530-B-4 MS	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	TC Client QC					
480-137530-B-4 MSD	PDI-7-SO-17-0613 2018	5035A_H, 8260C	T	TC Client QC					

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_0005
Preservative ID	MeOH 173605TF

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137530-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-6-SO-14-06132018	480-137530-1
PDI-6-SO-16-06132018	480-137530-2
PDI-106-SO-16-06132018	480-137530-3
PDI-7-SO-17-06132018	480-137530-4
PDI-8-SO-17-061318	480-137530-5
PDI-9-SO-17-061318	480-137530-6

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137530-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137530-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/18/2018 11:21 End Date: 06/18/2018 11:28

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
480-137530-1	1	T	11:21	X	X																			
480-137530-2	1	T	11:21	X	X																			
480-137530-3	1	T	11:21	X	X																			
480-137530-4	1	T	11:21	X	X																			
480-137530-4 MS	1	T	11:21	X	X																			
480-137530-4 MSD	1	T	11:21	X	X																			
480-137530-5	1	T	11:21	X	X																			
480-137530-6	1	T	11:21	X	X																			
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:21																					
ZZZZZZ			11:28																					
ZZZZZZ			11:28																					
ZZZZZZ			11:28																					
ZZZZZZ			11:28																					
ZZZZZZ			11:28																					
ZZZZZZ			11:28																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137530-1

SDG No.:

Batch Number: 420188 Batch Start Date: 06/18/18 11:21 Batch Analyst: Schultz, Lucas M

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-137530-A-1	PDI-6-SO-14-0613 2018	Moisture	T	4.38 g	14.84 g	12.57 g			
480-137530-A-2	PDI-6-SO-16-0613 2018	Moisture	T	4.34 g	15.03 g	12.20 g			
480-137530-A-3	PDI-106-SO-16-06 132018	Moisture	T	4.40 g	15.47 g	12.54 g			
480-137530-A-4	PDI-7-SO-17-0613 2018	Moisture	T	4.40 g	14.70 g	12.12 g			
480-137530-A-4 MS	PDI-7-SO-17-0613 2018	Moisture	T	4.40 g	14.70 g	12.12 g			
480-137530-A-4 MSD	PDI-7-SO-17-0613 2018	Moisture	T	4.40 g	14.70 g	12.12 g			
480-137530-A-5	PDI-8-SO-17-0613 18	Moisture	T	4.39 g	15.43 g	12.85 g			
480-137530-A-6	PDI-9-SO-17-0613 18	Moisture	T	4.29 g	16.33 g	13.62 g			

Batch Notes	
Balance ID	b202613314
Batch Comment	PP-F-06-17
Date samples were placed in the oven	06/18/2018
Oven Temp In	104 Degrees C
Time samples were place in the oven	12:15
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	06:05
Temperature - Start - Uncorrected	104 Degrees C
Temperature - End - Uncorrected	104 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN

480-137530 COC

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 1
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Days			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-6-SO-14-06132018	6/13/18	0900	G	Solid			✓							
PDI-6-SO-16-06132018	6/13/18	0905	G	Solid			✓							
PDI-106-SO-16-06132018	6/13/18	910	G	Solid			✓							
PDI-7-SO-17-06132018	6/13/18	0940	G	Solid			✓							
PDI-7MS-SO-17-06132018	6/13/18	945	G	Solid		X	✓							
PDI-7MSD-SO-17-06132018	6/13/18	950	G	Solid		X	✓							
PDI-8-SO-17-06132018	6/13/18	1030	G	Solid			✓							
PDI-9-SO-17-06132018	6/13/18	1140	G	Solid			✓							
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Frank Robinson	6/14/18 0800	CDM Smith		6/14/18 1122	TA
2		6/14/18 1622		TA	6/14/18 1625	TA
3		6/14/18 1700	TA		6/15/18 1045	TAB

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.7

Ver: 08/04/2016

06/29/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-137530-1

Login Number: 137530
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 6/15/18 11:00
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-137530-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
6/29/2018 10:44:19 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 14
QC Sample Results 15
QC Association Summary 23
Lab Chronicle 24
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 30

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F4	MS/MSD RPD exceeds control limits due to sample size difference.

Glossary

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

Job ID: 480-137530-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-137530-1

Receipt
The samples were received on 6/15/2018 10:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method 8260C: The following sample was analyzed using medium level analysis and diluted to bring the concentration of target analytes within the calibration range: PDI-7-SO-17-06132018 (480-137530-4). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample were analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside of preparation holding time: PDI-6-SO-14-06132018 (480-137530-1), PDI-6-SO-16-06132018 (480-137530-2), PDI-106-SO-16-06132018 (480-137530-3) and PDI-8-SO-17-061318 (480-137530-5).

Method 8260C: The following samples were analyzed using medium level soil analysis and were diluted due to the nature of the sample matrix: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]). Elevated reporting limits (RLs) are provided.

Method 8260C: The following sample was analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside preparation holding time: PDI-7-SO-17-06132018 (480-137530-4).

Method 8260C: The following samples were analyzed outside of preparation holding time but within analytical holding time due to the samples being received outside of preparation holding time: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]).

Method 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-420017 and analytical batch 480-420526 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.The following samples are impacted: PDI-7-SO-17-06132018 (480-137530-4[MS]) and PDI-7-SO-17-06132018 (480-137530-4[MSD]).

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-6-SO-14-06132018 — Lab Sample ID: 480-137530-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.4	J H	23	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.2	J H	4.5	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-6-SO-16-06132018 — Lab Sample ID: 480-137530-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.5	J H	5.2	0.38	ug/Kg	1	☼	8260C	Total/NA
Acetone	28	H	26	4.4	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.77	J H	5.2	0.32	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.0	J H	5.2	0.66	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	170	H	5.2	1.1	ug/Kg	1	☼	8260C	Total/NA
Trichlorofluoromethane	2.5	J H	5.2	0.49	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-106-SO-16-06132018 — Lab Sample ID: 480-137530-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	3.3	J H	5.3	0.39	ug/Kg	1	☼	8260C	Total/NA
Acetone	34	H	27	4.5	ug/Kg	1	☼	8260C	Total/NA
Chloroform	0.69	J H	5.3	0.33	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.3	J H	5.3	1.2	ug/Kg	1	☼	8260C	Total/NA
Trichlorofluoromethane	1.9	J H	5.3	0.50	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-7-SO-17-06132018 — Lab Sample ID: 480-137530-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	860	H F1 F2	750	190	ug/Kg	10	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1000	H F1 F2	750	210	ug/Kg	10	☼	8260C	Total/NA
Ethylbenzene	320	J H F1 F2	750	220	ug/Kg	10	☼	8260C	Total/NA
Tetrachloroethene	17000	H F2	750	100	ug/Kg	10	☼	8260C	Total/NA
Toluene	1300	H F1 F2	750	200	ug/Kg	10	☼	8260C	Total/NA
Trichloroethene	42000	H F2	750	210	ug/Kg	10	☼	8260C	Total/NA
Xylenes, Total	2000	H F1 F2	1500	420	ug/Kg	10	☼	8260C	Total/NA

Client Sample ID: PDI-8-SO-17-061318 — Lab Sample ID: 480-137530-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.1	J H	24	4.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-9-SO-17-061318 — Lab Sample ID: 480-137530-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-6-SO-14-06132018
Date Collected: 06/13/18 09:00
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-1
Matrix: Solid
Percent Solids: 78.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.5	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2,2-Tetrachloroethane	ND	H	4.5	0.74	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1,2-Trichloroethane	ND	H	4.5	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1-Dichloroethane	ND	H	4.5	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,1-Dichloroethene	ND	H	4.5	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2,4-Trichlorobenzene	ND	H	4.5	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dibromo-3-Chloropropane	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichlorobenzene	ND	H	4.5	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichloroethane	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dichloropropane	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,3-Dichlorobenzene	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,4-Dichlorobenzene	ND	H	4.5	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
2-Butanone (MEK)	ND	H	23	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
2-Hexanone	ND	H	23	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
4-Methyl-2-pentanone (MIBK)	ND	H	23	1.5	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Acetone	**5.4**	**J H**	23	3.8	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Benzene	ND	H	4.5	0.22	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromoform	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromomethane	ND	H	4.5	0.41	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Carbon disulfide	ND	H	4.5	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Carbon tetrachloride	ND	H	4.5	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chlorobenzene	ND	H	4.5	0.60	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Dibromochloromethane	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloroethane	ND	H	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloroform	ND	H	4.5	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Chloromethane	ND	H	4.5	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
cis-1,2-Dichloroethene	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Cyclohexane	ND	H	4.5	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Bromodichloromethane	ND	H	4.5	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Dichlorodifluoromethane	ND	H	4.5	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Ethylbenzene	ND	H	4.5	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
1,2-Dibromoethane	ND	H	4.5	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Isopropylbenzene	ND	H	4.5	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methyl acetate	ND	H	23	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methyl tert-butyl ether	ND	H	4.5	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methylcyclohexane	ND	H	4.5	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Methylene Chloride	ND	H	4.5	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Tetrachloroethene	ND	H	4.5	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Toluene	ND	H	4.5	0.34	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
trans-1,2-Dichloroethene	ND	H	4.5	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
trans-1,3-Dichloropropene	ND	H	4.5	2.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Trichloroethene	**1.2**	**J H**	4.5	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Trichlorofluoromethane	ND	H	4.5	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Vinyl chloride	ND	H	4.5	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Xylenes, Total	ND	H	9.1	0.76	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
cis-1,3-Dichloropropene	ND	H	4.5	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1
Styrene	ND	H	4.5	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 13:12	1

Client Sample ID: PDI-6-SO-14-06132018

Lab Sample ID: 480-137530-1

Date Collected: 06/13/18 09:00
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 78.3

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		64 - 126	06/15/18 11:00	06/16/18 13:12	1
4-Bromofluorobenzene (Surr)	95		72 - 126	06/15/18 11:00	06/16/18 13:12	1
Toluene-d8 (Surr)	99		71 - 125	06/15/18 11:00	06/16/18 13:12	1
Dibromofluoromethane (Surr)	101		60 - 140	06/15/18 11:00	06/16/18 13:12	1

Client Sample ID: PDI-6-SO-16-06132018

Lab Sample ID: 480-137530-2

Date Collected: 06/13/18 09:05
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.5**	**J H**	5.2	0.38	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2,2-Tetrachloroethane	ND	H	5.2	0.84	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.2	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1,2-Trichloroethane	ND	H	5.2	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1-Dichloroethane	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,1-Dichloroethene	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2,4-Trichlorobenzene	ND	H	5.2	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dibromo-3-Chloropropane	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichlorobenzene	ND	H	5.2	0.40	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichloroethane	ND	H	5.2	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dichloropropane	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,3-Dichlorobenzene	ND	H	5.2	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,4-Dichlorobenzene	ND	H	5.2	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
2-Butanone (MEK)	ND	H	26	1.9	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
2-Hexanone	ND	H	26	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
4-Methyl-2-pentanone (MIBK)	ND	H	26	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Acetone	**28**	**H**	26	4.4	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Benzene	ND	H	5.2	0.25	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromoform	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromomethane	ND	H	5.2	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Carbon disulfide	ND	H	5.2	2.6	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Carbon tetrachloride	ND	H	5.2	0.50	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chlorobenzene	ND	H	5.2	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Dibromochloromethane	ND	H	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloroethane	ND	H	5.2	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloroform	**0.77**	**J H**	5.2	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Chloromethane	ND	H	5.2	0.31	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
cis-1,2-Dichloroethene	**1.0**	**J H**	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Cyclohexane	ND	H	5.2	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Bromodichloromethane	ND	H	5.2	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Dichlorodifluoromethane	ND	H	5.2	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Ethylbenzene	ND	H	5.2	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
1,2-Dibromoethane	ND	H	5.2	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Isopropylbenzene	ND	H	5.2	0.78	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methyl acetate	ND	H	26	3.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methyl tert-butyl ether	ND	H	5.2	0.51	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methylcyclohexane	ND	H	5.2	0.79	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Methylene Chloride	ND	H	5.2	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Tetrachloroethene	ND	H	5.2	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1

Client Sample ID: PDI-6-SO-16-06132018

Lab Sample ID: 480-137530-2
Date Collected: 06/13/18 09:05
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND	H	5.2	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
trans-1,2-Dichloroethene	ND	H	5.2	0.53	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
trans-1,3-Dichloropropene	ND	H	5.2	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Trichloroethene	**170**	**H**	5.2	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Trichlorofluoromethane	**2.5**	**J H**	5.2	0.49	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Vinyl chloride	ND	H	5.2	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Xylenes, Total	ND	H	10	0.87	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
cis-1,3-Dichloropropene	ND	H	5.2	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1
Styrene	ND	H	5.2	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
4-Bromofluorobenzene (Surr)	*81*		*72 - 126*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
Toluene-d8 (Surr)	*108*		*71 - 125*	*06/15/18 11:00*	*06/16/18 13:38*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/15/18 11:00*	*06/16/18 13:38*	*1*

Client Sample ID: PDI-106-SO-16-06132018

Lab Sample ID: 480-137530-3
Date Collected: 06/13/18 09:10
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**3.3**	**J H**	5.3	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2,2-Tetrachloroethane	ND	H	5.3	0.86	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1,2-Trichloroethane	ND	H	5.3	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1-Dichloroethane	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,1-Dichloroethene	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2,4-Trichlorobenzene	ND	H	5.3	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dibromo-3-Chloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichlorobenzene	ND	H	5.3	0.42	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichloroethane	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dichloropropane	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,3-Dichlorobenzene	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,4-Dichlorobenzene	ND	H	5.3	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
2-Butanone (MEK)	ND	H	27	1.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
2-Hexanone	ND	H	27	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
4-Methyl-2-pentanone (MIBK)	ND	H	27	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Acetone	**34**	**H**	27	4.5	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Benzene	ND	H	5.3	0.26	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromoform	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromomethane	ND	H	5.3	0.48	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Carbon disulfide	ND	H	5.3	2.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Carbon tetrachloride	ND	H	5.3	0.52	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chlorobenzene	ND	H	5.3	0.70	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Dibromochloromethane	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloroethane	ND	H	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloroform	**0.69**	**J H**	5.3	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Chloromethane	ND	H	5.3	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
cis-1,2-Dichloroethene	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1

Client Sample ID: PDI-106-SO-16-06132018

Lab Sample ID: 480-137530-3
Date Collected: 06/13/18 09:10
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 73.5

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND	H	5.3	0.75	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Bromodichloromethane	ND	H	5.3	0.71	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Dichlorodifluoromethane	ND	H	5.3	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Ethylbenzene	ND	H	5.3	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
1,2-Dibromoethane	ND	H	5.3	0.68	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Isopropylbenzene	ND	H	5.3	0.80	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methyl acetate	ND	H	27	3.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methyl tert-butyl ether	ND	H	5.3	0.52	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methylcyclohexane	ND	H	5.3	0.81	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Methylene Chloride	ND	H	5.3	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Tetrachloroethene	ND	H	5.3	0.71	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Toluene	ND	H	5.3	0.40	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
trans-1,2-Dichloroethene	ND	H	5.3	0.55	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
trans-1,3-Dichloropropene	ND	H	5.3	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Trichloroethene	**1.3**	**J H**	5.3	1.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Trichlorofluoromethane	**1.9**	**J H**	5.3	0.50	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Vinyl chloride	ND	H	5.3	0.65	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Xylenes, Total	ND	H	11	0.89	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
cis-1,3-Dichloropropene	ND	H	5.3	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1
Styrene	ND	H	5.3	0.27	ug/Kg	☼	06/15/18 11:00	06/16/18 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
4-Bromofluorobenzene (Surr)	*82*		*72 - 126*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
Toluene-d8 (Surr)	*105*		*71 - 125*	*06/15/18 11:00*	*06/16/18 14:03*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/15/18 11:00*	*06/16/18 14:03*	*1*

Client Sample ID: PDI-7-SO-17-06132018

Lab Sample ID: 480-137530-4
Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H F1 F2	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2,2-Tetrachloroethane	ND	H F2	750	120	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1,2-Trichloroethane	ND	H F1	750	160	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1-Dichloroethane	ND	H F2 F1	750	230	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,1-Dichloroethene	ND	H	750	260	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2,4-Trichlorobenzene	ND	H F2 F1	750	280	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dibromo-3-Chloropropane	ND	H F2	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichlorobenzene	**860**	**H F1 F2**	750	190	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichloroethane	ND	H F1	750	310	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dichloropropane	ND	H F1 F2	750	120	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,3-Dichlorobenzene	ND	H F1 F2	750	200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,4-Dichlorobenzene	ND	H F1 F2	750	110	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
2-Butanone (MEK)	ND	H F1	3800	2200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
2-Hexanone	ND	H F1 F2	3800	1500	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
4-Methyl-2-pentanone (MIBK)	ND	H F1	3800	240	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Acetone	ND	H F1	3800	3100	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10

Client Sample ID: PDI-7-SO-17-06132018

Lab Sample ID: 480-137530-4

Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	H F2	750	140	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromoform	ND	H	750	380	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromomethane	ND	H	750	170	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Carbon disulfide	ND	H F2	750	340	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Carbon tetrachloride	ND	H F2	750	190	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chlorobenzene	ND	H F2 F1	750	99	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Dibromochloromethane	ND	H F2	750	360	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloroethane	ND	H F2	750	160	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloroform	ND	H F2 F1	750	520	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Chloromethane	ND	H F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
cis-1,2-Dichloroethene	**1000**	**H F1 F2**	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Cyclohexane	ND	H	750	170	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Bromodichloromethane	ND	H F1 F2	750	150	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Dichlorodifluoromethane	ND	H F2	750	330	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Ethylbenzene	**320**	**J H F1 F2**	750	220	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
1,2-Dibromoethane	ND	H F1	750	130	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Isopropylbenzene	ND	H F2	750	110	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methyl acetate	ND	H F1 F2	3800	360	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methyl tert-butyl ether	ND	H F1 F2	750	280	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methylcyclohexane	ND	H F2	750	350	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Methylene Chloride	ND	H	750	150	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Tetrachloroethene	**17000**	**H F2**	750	100	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Toluene	**1300**	**H F1 F2**	750	200	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
trans-1,2-Dichloroethene	ND	H	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
trans-1,3-Dichloropropene	ND	H F2	750	74	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Trichloroethene	**42000**	**H F2**	750	210	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Trichlorofluoromethane	ND	H F2	750	350	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Vinyl chloride	ND	H F2	750	250	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Xylenes, Total	**2000**	**H F1 F2**	1500	420	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
cis-1,3-Dichloropropene	ND	H F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10
Styrene	ND	H F1 F2	750	180	ug/Kg	☼	06/16/18 12:07	06/18/18 15:39	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*53 - 146*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
4-Bromofluorobenzene (Surr)	*106*		*49 - 148*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
Toluene-d8 (Surr)	*100*		*50 - 149*	*06/16/18 12:07*	*06/18/18 15:39*	*10*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/16/18 12:07*	*06/18/18 15:39*	*10*

Client Sample ID: PDI-8-SO-17-061318

Lab Sample ID: 480-137530-5

Date Collected: 06/13/18 10:30
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 76.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.8	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2,2-Tetrachloroethane	ND	H	4.8	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.8	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1,2-Trichloroethane	ND	H	4.8	0.62	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1-Dichloroethane	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,1-Dichloroethene	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-8-SO-17-061318
Date Collected: 06/13/18 10:30
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-5
Matrix: Solid
Percent Solids: 76.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dibromo-3-Chloropropane	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichlorobenzene	ND	H	4.8	0.37	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichloroethane	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dichloropropane	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,3-Dichlorobenzene	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,4-Dichlorobenzene	ND	H	4.8	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
2-Butanone (MEK)	ND	H	24	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
2-Hexanone	ND	H	24	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
4-Methyl-2-pentanone (MIBK)	ND	H	24	1.6	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Acetone	**8.1**	**J H**	24	4.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Benzene	ND	H	4.8	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromoform	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromomethane	ND	H	4.8	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Carbon disulfide	ND	H	4.8	2.4	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Carbon tetrachloride	ND	H	4.8	0.46	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chlorobenzene	ND	H	4.8	0.63	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Dibromochloromethane	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloroethane	ND	H	4.8	1.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloroform	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Chloromethane	ND	H	4.8	0.29	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
cis-1,2-Dichloroethene	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Cyclohexane	ND	H	4.8	0.67	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Bromodichloromethane	ND	H	4.8	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Dichlorodifluoromethane	ND	H	4.8	0.39	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Ethylbenzene	ND	H	4.8	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
1,2-Dibromoethane	ND	H	4.8	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Isopropylbenzene	ND	H	4.8	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methyl acetate	ND	H	24	2.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methyl tert-butyl ether	ND	H	4.8	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methylcyclohexane	ND	H	4.8	0.72	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Methylene Chloride	ND	H	4.8	2.2	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Tetrachloroethene	ND	H	4.8	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Toluene	ND	H	4.8	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
trans-1,2-Dichloroethene	ND	H	4.8	0.49	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
trans-1,3-Dichloropropene	ND	H	4.8	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Trichloroethene	ND	H	4.8	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Trichlorofluoromethane	ND	H	4.8	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Vinyl chloride	ND	H	4.8	0.58	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Xylenes, Total	ND	H	9.5	0.80	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
cis-1,3-Dichloropropene	ND	H	4.8	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1
Styrene	ND	H	4.8	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*06/15/18 11:00*	*06/16/18 14:29*	*1*
Dibromofluoromethane (Surr)	*100*		*60 - 140*	*06/15/18 11:00*	*06/16/18 14:29*	*1*

Client Sample ID: PDI-9-SO-17-061318
Date Collected: 06/13/18 11:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-6
Matrix: Solid
Percent Solids: 77.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.74	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Acetone	17	J	23	3.9	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Benzene	ND		4.6	0.22	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Bromodichloromethane	ND		4.6	0.61	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Toluene	ND		4.6	0.35	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1
Styrene	ND		4.6	0.23	ug/Kg	☼	06/15/18 11:00	06/16/18 14:55	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-9-SO-17-061318
Date Collected: 06/13/18 11:40
Date Received: 06/15/18 10:45

Lab Sample ID: 480-137530-6
Matrix: Solid
Percent Solids: 77.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 126	06/15/18 11:00	06/16/18 14:55	1
4-Bromofluorobenzene (Surr)	93		72 - 126	06/15/18 11:00	06/16/18 14:55	1
Toluene-d8 (Surr)	98		71 - 125	06/15/18 11:00	06/16/18 14:55	1
Dibromofluoromethane (Surr)	99		60 - 140	06/15/18 11:00	06/16/18 14:55	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-137530-1	PDI-6-SO-14-06132018	106	95	99	101
480-137530-2	PDI-6-SO-16-06132018	103	81	108	101
480-137530-3	PDI-106-SO-16-06132018	105	82	105	101
480-137530-5	PDI-8-SO-17-061318	106	95	98	100
480-137530-6	PDI-9-SO-17-061318	104	93	98	99
LCS 480-419967/16-A	Lab Control Sample	96	98	101	99
MB 480-419967/2-A	Method Blank	102	94	98	99

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(53-146)	(49-148)	(50-149)	(60-140)
480-137530-4	PDI-7-SO-17-06132018	109	106	100	101
480-137530-4 MS	PDI-7-SO-17-06132018	108	105	96	103
480-137530-4 MSD	PDI-7-SO-17-06132018	109	103	97	102
LCS 480-420017/1-A	Lab Control Sample	102	100	96	99
MB 480-420017/2-A	Method Blank	107	105	97	102

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-419967/2-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 419967

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
2-Hexanone	ND		25	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Acetone	ND		25	4.2	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Benzene	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromoform	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloroform	ND		5.0	0.31	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methyl acetate	ND		25	3.0	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Toluene	ND		5.0	0.38	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/16/18 06:36	06/16/18 10:52	1
Styrene	ND		5.0	0.25	ug/Kg		06/16/18 06:36	06/16/18 10:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*64 - 126*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
4-Bromofluorobenzene (Surr)	*94*		*72 - 126*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
Toluene-d8 (Surr)	*98*		*71 - 125*	*06/16/18 06:36*	*06/16/18 10:52*	*1*
Dibromofluoromethane (Surr)	*99*		*60 - 140*	*06/16/18 06:36*	*06/16/18 10:52*	*1*

Lab Sample ID: LCS 480-419967/16-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.2		ug/Kg		80	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	42.4		ug/Kg		85	60 - 140
1,1,2-Trichloroethane	50.0	43.9		ug/Kg		88	78 - 122
1,1-Dichloroethane	50.0	44.2		ug/Kg		88	73 - 126
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	59 - 125
1,2,4-Trichlorobenzene	50.0	42.6		ug/Kg		85	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.5		ug/Kg		93	63 - 124
1,2-Dichlorobenzene	50.0	43.2		ug/Kg		86	75 - 120
1,2-Dichloroethane	50.0	41.0		ug/Kg		82	77 - 122
1,2-Dichloropropane	50.0	43.3		ug/Kg		87	75 - 124
1,3-Dichlorobenzene	50.0	45.0		ug/Kg		90	74 - 120
1,4-Dichlorobenzene	50.0	44.5		ug/Kg		89	73 - 120
2-Butanone (MEK)	250	280		ug/Kg		112	70 - 134
2-Hexanone	250	264		ug/Kg		106	59 - 130
4-Methyl-2-pentanone (MIBK)	250	251		ug/Kg		100	65 - 133
Acetone	250	265		ug/Kg		106	61 - 137
Benzene	50.0	45.1		ug/Kg		90	79 - 127
Bromoform	50.0	43.8		ug/Kg		88	68 - 126
Bromomethane	50.0	44.6		ug/Kg		89	37 - 149
Carbon disulfide	50.0	43.4		ug/Kg		87	64 - 131
Carbon tetrachloride	50.0	39.7		ug/Kg		79	75 - 135
Chlorobenzene	50.0	44.4		ug/Kg		89	76 - 124
Dibromochloromethane	50.0	43.2		ug/Kg		86	76 - 125
Chloroethane	50.0	45.4		ug/Kg		91	69 - 135
Chloroform	50.0	42.9		ug/Kg		86	80 - 120
Chloromethane	50.0	42.6		ug/Kg		85	63 - 127
cis-1,2-Dichloroethene	50.0	44.2		ug/Kg		88	81 - 120
Cyclohexane	50.0	42.4		ug/Kg		85	65 - 120
Bromodichloromethane	50.0	42.7		ug/Kg		85	80 - 122
Dichlorodifluoromethane	50.0	41.8		ug/Kg		84	57 - 142
Ethylbenzene	50.0	44.8		ug/Kg		90	80 - 120
1,2-Dibromoethane	50.0	44.2		ug/Kg		88	78 - 120
Isopropylbenzene	50.0	45.2		ug/Kg		90	72 - 120
Methyl acetate	100	113		ug/Kg		113	55 - 136
Methyl tert-butyl ether	50.0	40.5		ug/Kg		81	63 - 125
Methylcyclohexane	50.0	43.1		ug/Kg		86	60 - 140
Methylene Chloride	50.0	46.0		ug/Kg		92	61 - 127
Tetrachloroethene	50.0	43.8		ug/Kg		88	74 - 122
Toluene	50.0	45.3		ug/Kg		91	74 - 128
trans-1,2-Dichloroethene	50.0	44.4		ug/Kg		89	78 - 126
trans-1,3-Dichloropropene	50.0	42.4		ug/Kg		85	73 - 123
Trichloroethene	50.0	43.7		ug/Kg		87	77 - 129

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

Lab Sample ID: LCS 480-419967/16-A
Matrix: Solid
Analysis Batch: 419970

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 419967

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	44.7		ug/Kg		89	65 - 146
Vinyl chloride	50.0	46.1		ug/Kg		92	61 - 133
cis-1,3-Dichloropropene	50.0	42.6		ug/Kg		85	80 - 120
Styrene	50.0	44.3		ug/Kg		89	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: MB 480-420017/2-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2,2-Tetrachloroethane	ND		100	16	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1,2-Trichloroethane	ND		100	21	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1-Dichloroethane	ND		100	31	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,1-Dichloroethene	ND		100	35	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2,4-Trichlorobenzene	ND		100	38	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dibromo-3-Chloropropane	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichlorobenzene	ND		100	26	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichloroethane	ND		100	41	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,2-Dichloropropane	ND		100	16	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,3-Dichlorobenzene	ND		100	27	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
1,4-Dichlorobenzene	ND		100	14	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
2-Butanone (MEK)	ND		500	300	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
2-Hexanone	ND		500	210	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
4-Methyl-2-pentanone (MIBK)	ND		500	32	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Acetone	ND		500	410	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Benzene	ND		100	19	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromoform	ND		100	50	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromomethane	ND		100	22	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Carbon disulfide	ND		100	46	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Carbon tetrachloride	ND		100	26	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chlorobenzene	ND		100	13	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Dibromochloromethane	ND		100	48	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloroethane	ND		100	21	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloroform	ND		100	69	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Chloromethane	76.1	J	100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
cis-1,2-Dichloroethene	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Cyclohexane	ND		100	22	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Bromodichloromethane	ND		100	20	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Dichlorodifluoromethane	ND		100	44	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Ethylbenzene	ND		100	29	ug/Kg		06/16/18 12:07	06/18/18 10:35	1

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

Lab Sample ID: MB 480-420017/2-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 420017

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		100	18	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Isopropylbenzene	ND		100	15	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methyl acetate	ND		500	48	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methyl tert-butyl ether	ND		100	38	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methylcyclohexane	ND		100	47	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Methylene Chloride	ND		100	20	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Tetrachloroethene	ND		100	13	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Toluene	ND		100	27	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
trans-1,2-Dichloroethene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
trans-1,3-Dichloropropene	ND		100	9.8	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Trichloroethene	ND		100	28	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Trichlorofluoromethane	ND		100	47	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Vinyl chloride	61.6	J	100	34	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Xylenes, Total	ND		200	55	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
cis-1,3-Dichloropropene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1
Styrene	ND		100	24	ug/Kg		06/16/18 12:07	06/18/18 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*53 - 146*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
Toluene-d8 (Surr)	*97*		*50 - 149*	*06/16/18 12:07*	*06/18/18 10:35*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 140*	*06/16/18 12:07*	*06/18/18 10:35*	*1*

Lab Sample ID: LCS 480-420017/1-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2510		ug/Kg		100	68 - 130
1,1,2,2-Tetrachloroethane	2500	2240		ug/Kg		89	73 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	2500	2690		ug/Kg		108	10 - 179
1,1,2-Trichloroethane	2500	2310		ug/Kg		92	80 - 120
1,1-Dichloroethane	2500	2510		ug/Kg		100	78 - 121
1,1-Dichloroethene	2500	2360		ug/Kg		94	48 - 133
1,2,4-Trichlorobenzene	2500	2720		ug/Kg		109	70 - 140
1,2-Dibromo-3-Chloropropane	2500	2440		ug/Kg		98	56 - 122
1,2-Dichlorobenzene	2500	2470		ug/Kg		99	78 - 125
1,2-Dichloroethane	2500	2460		ug/Kg		98	74 - 127
1,2-Dichloropropane	2500	2390		ug/Kg		96	80 - 120
1,3-Dichlorobenzene	2500	2440		ug/Kg		98	80 - 120
1,4-Dichlorobenzene	2500	2450		ug/Kg		98	80 - 120
2-Butanone (MEK)	12500	9670		ug/Kg		77	54 - 149
2-Hexanone	12500	11800		ug/Kg		95	59 - 127
4-Methyl-2-pentanone (MIBK)	12500	11900		ug/Kg		95	74 - 120
Acetone	12500	11700		ug/Kg		94	47 - 141
Benzene	2500	2400		ug/Kg		96	77 - 125
Bromoform	2500	2360		ug/Kg		95	48 - 125

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

Lab Sample ID: LCS 480-420017/1-A
Matrix: Solid
Analysis Batch: 420097

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	2500	2280		ug/Kg		91	39 - 149
Carbon disulfide	2500	2350		ug/Kg		94	40 - 136
Carbon tetrachloride	2500	2690		ug/Kg		108	54 - 135
Chlorobenzene	2500	2420		ug/Kg		97	76 - 126
Dibromochloromethane	2500	2380		ug/Kg		95	64 - 120
Chloroethane	2500	2560		ug/Kg		103	23 - 150
Chloroform	2500	2450		ug/Kg		98	78 - 120
Chloromethane	2500	2500		ug/Kg		100	61 - 124
cis-1,2-Dichloroethene	2500	2420		ug/Kg		97	79 - 124
Cyclohexane	2500	2790		ug/Kg		111	49 - 129
Bromodichloromethane	2500	2440		ug/Kg		97	71 - 121
Dichlorodifluoromethane	2500	2460		ug/Kg		98	10 - 150
Ethylbenzene	2500	2440		ug/Kg		98	78 - 124
1,2-Dibromoethane	2500	2370		ug/Kg		95	80 - 120
Isopropylbenzene	2500	2420		ug/Kg		97	76 - 120
Methyl acetate	5000	5350		ug/Kg		107	71 - 123
Methyl tert-butyl ether	2500	2400		ug/Kg		96	67 - 137
Methylcyclohexane	2500	2710		ug/Kg		108	50 - 130
Methylene Chloride	2500	2340		ug/Kg		94	75 - 118
Tetrachloroethene	2500	2550		ug/Kg		102	73 - 133
Toluene	2500	2380		ug/Kg		95	75 - 124
trans-1,2-Dichloroethene	2500	2340		ug/Kg		94	74 - 129
trans-1,3-Dichloropropene	2500	2410		ug/Kg		96	73 - 120
Trichloroethene	2500	2510		ug/Kg		100	75 - 131
Trichlorofluoromethane	2500	2550		ug/Kg		102	29 - 158
Vinyl chloride	2500	2510		ug/Kg		100	59 - 124
cis-1,3-Dichloropropene	2500	2410		ug/Kg		96	75 - 121
Styrene	2500	2490		ug/Kg		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*53 - 146*
4-Bromofluorobenzene (Surr)	*100*		*49 - 148*
Toluene-d8 (Surr)	*96*		*50 - 149*
Dibromofluoromethane (Surr)	*99*		*60 - 140*

Lab Sample ID: 480-137530-4 MS
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	H F1 F2	3960	5700	H F1	ug/Kg	☼	144	64 - 142
1,1,2,2-Tetrachloroethane	ND	H F2	3960	4650	H	ug/Kg	☼	117	56 - 128
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	3960	4370	H	ug/Kg	☼	110	64 - 154
1,1,2-Trichloroethane	ND	H F1	3960	5370	H F1	ug/Kg	☼	136	63 - 133
1,1-Dichloroethane	ND	H F2 F1	3960	5070	H	ug/Kg	☼	128	64 - 135
1,1-Dichloroethene	ND	H	3960	3770	H	ug/Kg	☼	95	62 - 145
1,2,4-Trichlorobenzene	ND	H F2 F1	3960	5730	H	ug/Kg	☼	145	56 - 145

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

Lab Sample ID: 480-137530-4 MS
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	ND	H F2	3960	4780	H	ug/Kg	☼	121	40 - 122
1,2-Dichlorobenzene	860	H F1 F2	3960	7130	H F1	ug/Kg	☼	158	68 - 133
1,2-Dichloroethane	ND	H F1	3960	5700	H F1	ug/Kg	☼	144	62 - 135
1,2-Dichloropropane	ND	H F1 F2	3960	5660	H F1	ug/Kg	☼	143	67 - 139
1,3-Dichlorobenzene	ND	H F1 F2	3960	5860	H F1	ug/Kg	☼	148	68 - 136
1,4-Dichlorobenzene	ND	H F1 F2	3960	5880	H F1	ug/Kg	☼	148	69 - 136
2-Butanone (MEK)	ND	H F1	19800	37300	H F1	ug/Kg	☼	188	46 - 132
2-Hexanone	ND	H F1 F2	19800	37900	H F1	ug/Kg	☼	192	44 - 130
4-Methyl-2-pentanone (MIBK)	ND	H F1	19800	30200	H F1	ug/Kg	☼	153	49 - 125
Acetone	ND	H F1	19800	50200	H F1	ug/Kg	☼	254	32 - 136
Benzene	ND	H F2	3960	5260	H	ug/Kg	☼	133	68 - 137
Bromoform	ND	H	3960	3690	H	ug/Kg	☼	93	43 - 134
Bromomethane	ND	H	3960	4100	H	ug/Kg	☼	103	38 - 137
Carbon disulfide	ND	H F2	3960	3950	H	ug/Kg	☼	100	52 - 139
Carbon tetrachloride	ND	H F2	3960	5160	H	ug/Kg	☼	130	60 - 150
Chlorobenzene	ND	H F2 F1	3960	5380	H	ug/Kg	☼	136	67 - 136
Dibromochloromethane	ND	H F2	3960	4850	H	ug/Kg	☼	123	57 - 137
Chloroethane	ND	H F2	3960	5170	H	ug/Kg	☼	131	34 - 140
Chloroform	ND	H F2 F1	3960	5230	H	ug/Kg	☼	132	64 - 133
Chloromethane	ND	H F2	3960	4510	H	ug/Kg	☼	114	47 - 143
cis-1,2-Dichloroethene	1000	H F1 F2	3960	6640	H F1	ug/Kg	☼	142	65 - 137
Cyclohexane	ND	H	3960	4640	H	ug/Kg	☼	117	63 - 149
Bromodichloromethane	ND	H F1 F2	3960	5540	H F1	ug/Kg	☼	140	62 - 136
Dichlorodifluoromethane	ND	H F2	3960	4220	H	ug/Kg	☼	107	26 - 150
Ethylbenzene	320	J H F1 F2	3960	6070	H F1	ug/Kg	☼	145	67 - 136
1,2-Dibromoethane	ND	H F1	3960	5390	H F1	ug/Kg	☼	136	65 - 133
Isopropylbenzene	ND	H F2	3960	5550	H	ug/Kg	☼	140	65 - 147
Methyl acetate	ND	H F1 F2	7920	12000	H F1	ug/Kg	☼	151	50 - 124
Methyl tert-butyl ether	ND	H F1 F2	3960	5300	H F1	ug/Kg	☼	134	60 - 130
Methylcyclohexane	ND	H F2	3960	4700	H	ug/Kg	☼	119	67 - 150
Methylene Chloride	ND	H	3960	4100	H	ug/Kg	☼	104	63 - 138
Tetrachloroethene	17000	H F2	3960	36400	H 4	ug/Kg	☼	483	67 - 150
Toluene	1300	H F1 F2	3960	7730	H F1	ug/Kg	☼	162	68 - 137
trans-1,2-Dichloroethene	ND	H	3960	4360	H	ug/Kg	☼	110	65 - 138
trans-1,3-Dichloropropene	ND	H F2	3960	4960	H	ug/Kg	☼	125	58 - 143
Trichloroethene	42000	H F2	3960	85900	H 4	ug/Kg	☼	1097	69 - 143
Trichlorofluoromethane	ND	H F2	3960	5240	H	ug/Kg	☼	132	35 - 150
Vinyl chloride	ND	H F2	3960	4250	H	ug/Kg	☼	107	56 - 150
cis-1,3-Dichloropropene	ND	H F2	3960	4860	H	ug/Kg	☼	123	61 - 148
Styrene	ND	H F1 F2	3960	5690	H F1	ug/Kg	☼	144	68 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*53 - 146*
4-Bromofluorobenzene (Surr)	*105*		*49 - 148*
Toluene-d8 (Surr)	*96*		*50 - 149*
Dibromofluoromethane (Surr)	*103*		*60 - 140*

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

Lab Sample ID: 480-137530-4 MSD
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	H F1 F2	2950	4560	H F1 F4	ug/Kg	☼	155	64 - 142	22	20
1,1,2,2-Tetrachloroethane	ND	H F2	2950	3750	H F4	ug/Kg	☼	127	56 - 128	21	20
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	2950	3720	H	ug/Kg	☼	126	64 - 154	16	20
1,1,2-Trichloroethane	ND	H F1	2950	4660	H F1	ug/Kg	☼	158	63 - 133	14	20
1,1-Dichloroethane	ND	H F2 F1	2950	4080	H F1 F4	ug/Kg	☼	138	64 - 135	22	20
1,1-Dichloroethene	ND	H	2950	3220	H	ug/Kg	☼	109	62 - 145	16	20
1,2,4-Trichlorobenzene	ND	H F2 F1	2950	4470	H F1 F4	ug/Kg	☼	152	56 - 145	25	20
1,2-Dibromo-3-Chloropropane	ND	H F2	2950	3280	H F4	ug/Kg	☼	111	40 - 122	37	20
1,2-Dichlorobenzene	860	H F1 F2	2950	5550	H F1 F4	ug/Kg	☼	159	68 - 133	25	20
1,2-Dichloroethane	ND	H F1	2950	4720	H F1	ug/Kg	☼	160	62 - 135	19	20
1,2-Dichloropropane	ND	H F1 F2	2950	4250	H F1 F4	ug/Kg	☼	144	67 - 139	28	20
1,3-Dichlorobenzene	ND	H F1 F2	2950	4490	H F1 F4	ug/Kg	☼	152	68 - 136	27	20
1,4-Dichlorobenzene	ND	H F1 F2	2950	4460	H F1 F4	ug/Kg	☼	151	69 - 136	27	20
2-Butanone (MEK)	ND	H F1	14700	30600	H F1	ug/Kg	☼	208	46 - 132	20	20
2-Hexanone	ND	H F1 F2	14700	30100	H F1 F4	ug/Kg	☼	204	44 - 130	23	20
4-Methyl-2-pentanone (MIBK)	ND	H F1	14700	25100	H F1	ug/Kg	☼	170	49 - 125	19	20
Acetone	ND	H F1	14700	40900	H F1	ug/Kg	☼	278	32 - 136	20	20
Benzene	ND	H F2	2950	3930	H F4	ug/Kg	☼	133	68 - 137	29	20
Bromoform	ND	H	2950	3020	H	ug/Kg	☼	103	43 - 134	20	20
Bromomethane	ND	H	2950	3390	H	ug/Kg	☼	115	38 - 137	19	20
Carbon disulfide	ND	H F2	2950	3190	H F4	ug/Kg	☼	108	52 - 139	22	20
Carbon tetrachloride	ND	H F2	2950	4160	H F4	ug/Kg	☼	141	60 - 150	21	20
Chlorobenzene	ND	H F2 F1	2950	4210	H F1 F4	ug/Kg	☼	143	67 - 136	25	20
Dibromochloromethane	ND	H F2	2950	3510	H F4	ug/Kg	☼	119	57 - 137	32	20
Chloroethane	ND	H F2	2950	3950	H F4	ug/Kg	☼	134	34 - 140	27	20
Chloroform	ND	H F2 F1	2950	4260	H F1 F4	ug/Kg	☼	144	64 - 133	21	20
Chloromethane	ND	H F2	2950	3550	H F4	ug/Kg	☼	120	47 - 143	24	20
cis-1,2-Dichloroethene	1000	H F1 F2	2950	5190	H F1 F4	ug/Kg	☼	142	65 - 137	24	20
Cyclohexane	ND	H	2950	4350	H	ug/Kg	☼	147	63 - 149	7	20
Bromodichloromethane	ND	H F1 F2	2950	4210	H F1 F4	ug/Kg	☼	143	62 - 136	27	20
Dichlorodifluoromethane	ND	H F2	2950	3270	H F4	ug/Kg	☼	111	26 - 150	25	20
Ethylbenzene	320	J H F1 F2	2950	4630	H F1 F4	ug/Kg	☼	146	67 - 136	27	20
1,2-Dibromoethane	ND	H F1	2950	4460	H F1	ug/Kg	☼	151	65 - 133	19	20
Isopropylbenzene	ND	H F2	2950	4350	H F4	ug/Kg	☼	147	65 - 147	24	20
Methyl acetate	ND	H F1 F2	5900	9070	H F1 F4	ug/Kg	☼	154	50 - 124	27	20
Methyl tert-butyl ether	ND	H F1 F2	2950	4110	H F1 F4	ug/Kg	☼	139	60 - 130	25	20
Methylcyclohexane	ND	H F2	2950	3800	H F4	ug/Kg	☼	129	67 - 150	21	20
Methylene Chloride	ND	H	2950	3670	H	ug/Kg	☼	125	63 - 138	11	20
Tetrachloroethene	17000	H F2	2950	28000	H 4 F4	ug/Kg	☼	365	67 - 150	26	20
Toluene	1300	H F1 F2	2950	6000	H F1 F4	ug/Kg	☼	159	68 - 137	25	20
trans-1,2-Dichloroethene	ND	H	2950	3700	H	ug/Kg	☼	125	65 - 138	16	20
trans-1,3-Dichloropropene	ND	H F2	2950	3820	H F4	ug/Kg	☼	130	58 - 143	26	20
Trichloroethene	42000	H F2	2950	66900	H 4 F4	ug/Kg	☼	831	69 - 143	25	20
Trichlorofluoromethane	ND	H F2	2950	4030	H F4	ug/Kg	☼	137	35 - 150	26	20
Vinyl chloride	ND	H F2	2950	3450	H F4	ug/Kg	☼	117	56 - 150	21	20
cis-1,3-Dichloropropene	ND	H F2	2950	3770	H F4	ug/Kg	☼	128	61 - 148	25	20
Styrene	ND	H F1 F2	2950	4470	H F1 F4	ug/Kg	☼	151	68 - 137	24	20

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

Lab Sample ID: 480-137530-4 MSD
Matrix: Solid
Analysis Batch: 420526

Client Sample ID: PDI-7-SO-17-06132018
Prep Type: Total/NA
Prep Batch: 420017

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		53 - 146
4-Bromofluorobenzene (Surr)	103		49 - 148
Toluene-d8 (Surr)	97		50 - 149
Dibromofluoromethane (Surr)	102		60 - 140

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

GC/MS VOA

Prep Batch: 419967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	5035A_L	
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	5035A_L	
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	5035A_L	
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	5035A_L	
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	5035A_L	
MB 480-419967/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-419967/16-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 419970

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	8260C	419967
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	8260C	419967
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	8260C	419967
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	8260C	419967
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	8260C	419967
MB 480-419967/2-A	Method Blank	Total/NA	Solid	8260C	419967
LCS 480-419967/16-A	Lab Control Sample	Total/NA	Solid	8260C	419967

Prep Batch: 420017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	
MB 480-420017/2-A	Method Blank	Total/NA	Solid	5035A_H	
LCS 480-420017/1-A	Lab Control Sample	Total/NA	Solid	5035A_H	
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	5035A_H	

Analysis Batch: 420097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017
MB 480-420017/2-A	Method Blank	Total/NA	Solid	8260C	420017
LCS 480-420017/1-A	Lab Control Sample	Total/NA	Solid	8260C	420017

Analysis Batch: 420526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	8260C	420017

General Chemistry

Analysis Batch: 420188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137530-1	PDI-6-SO-14-06132018	Total/NA	Solid	Moisture	
480-137530-2	PDI-6-SO-16-06132018	Total/NA	Solid	Moisture	
480-137530-3	PDI-106-SO-16-06132018	Total/NA	Solid	Moisture	
480-137530-4	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	
480-137530-5	PDI-8-SO-17-061318	Total/NA	Solid	Moisture	
480-137530-6	PDI-9-SO-17-061318	Total/NA	Solid	Moisture	
480-137530-4 MS	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	
480-137530-4 MSD	PDI-7-SO-17-06132018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-6-SO-14-06132018 — Lab Sample ID: 480-137530-1

Date Collected: 06/13/18 09:00 — **Matrix: Solid**
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-6-SO-14-06132018 — Lab Sample ID: 480-137530-1

Date Collected: 06/13/18 09:00 — **Matrix: Solid**
Date Received: 06/15/18 10:45 — **Percent Solids: 78.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 13:12	AMM	TAL BUF

Client Sample ID: PDI-6-SO-16-06132018 — Lab Sample ID: 480-137530-2

Date Collected: 06/13/18 09:05 — **Matrix: Solid**
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-6-SO-16-06132018 — Lab Sample ID: 480-137530-2

Date Collected: 06/13/18 09:05 — **Matrix: Solid**
Date Received: 06/15/18 10:45 — **Percent Solids: 73.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 13:38	AMM	TAL BUF

Client Sample ID: PDI-106-SO-16-06132018 — Lab Sample ID: 480-137530-3

Date Collected: 06/13/18 09:10 — **Matrix: Solid**
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-106-SO-16-06132018 — Lab Sample ID: 480-137530-3

Date Collected: 06/13/18 09:10 — **Matrix: Solid**
Date Received: 06/15/18 10:45 — **Percent Solids: 73.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:03	AMM	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Client Sample ID: PDI-7-SO-17-06132018
Lab Sample ID: 480-137530-4
Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-7-SO-17-06132018
Lab Sample ID: 480-137530-4
Date Collected: 06/13/18 09:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_H			420017	06/16/18 12:07	AMM	TAL BUF
Total/NA	Analysis	8260C		10	420097	06/18/18 15:39	AEM	TAL BUF

Client Sample ID: PDI-8-SO-17-061318
Lab Sample ID: 480-137530-5
Date Collected: 06/13/18 10:30
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-8-SO-17-061318
Lab Sample ID: 480-137530-5
Date Collected: 06/13/18 10:30
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 76.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:29	AMM	TAL BUF

Client Sample ID: PDI-9-SO-17-061318
Lab Sample ID: 480-137530-6
Date Collected: 06/13/18 11:40
Matrix: Solid
Date Received: 06/15/18 10:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	420188	06/18/18 11:21	LMS	TAL BUF

Client Sample ID: PDI-9-SO-17-061318
Lab Sample ID: 480-137530-6
Date Collected: 06/13/18 11:40
Matrix: Solid
Date Received: 06/15/18 10:45
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			419967	06/15/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	419970	06/16/18 14:55	AMM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_H	Closed System Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137530-1	PDI-6-SO-14-06132018	Solid	06/13/18 09:00	06/15/18 10:45
480-137530-2	PDI-6-SO-16-06132018	Solid	06/13/18 09:05	06/15/18 10:45
480-137530-3	PDI-106-SO-16-06132018	Solid	06/13/18 09:10	06/15/18 10:45
480-137530-4	PDI-7-SO-17-06132018	Solid	06/13/18 09:40	06/15/18 10:45
480-137530-5	PDI-8-SO-17-061318	Solid	06/13/18 10:30	06/15/18 10:45
480-137530-6	PDI-9-SO-17-061318	Solid	06/13/18 11:40	06/15/18 10:45

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN E

480-137530 COC

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of [illegible]
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Days			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-6-SO-14-06132018	6/13/18	0906	G	Solid			✓							
PDI-6-SO-16-06132018	6/13/18	0905	G	Solid			✓							
PDI-106-SO-16-06132018	6/13/18	910	G	Solid			✓							
PDI-7-SO-17-06132018	6/13/18	0940	G	Solid			✓							
PDI-7MS-SO-17-06132018	6/13/18	945	G	Solid		X	✓							
PDI-7MSD-SO-17-06132018	6/13/18	950	G	Solid		X	✓							
PDI-8-SO-17-06132018	6/13/18	1030	G	Solid			✓							
PDI-9-SO-17-06132018	6/13/18	1140	G	Solid			✓							
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Frank Robinson	6/14/18 0800	CDM Smith	[illegible]	6/14/18 1122	TA
2	[illegible]	6/14/18 1622	TA	[illegible] TA	6/14/18 [illegible]	1625 TA
3	[illegible]	6/14/18 720	TA	[illegible]	6/15/18 1045	TAB

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: #1 2.7

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-137530-1

Login Number: 137530
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 6/15/18 11:00
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-137801-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/3/2018 2:49 PM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/03/2018

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 16

QC Sample Results 17

Definitions 22

QC Association 23

Chronicle 24

Certification Summary 26

Organic Sample Data 27

GC/MS VOA 27

Method 8260C 27

Method 8260C QC Summary 28

Method 8260C Sample Data 44

Standards Data 105

Method 8260C ICAL Data 105

Method 8260C CCAL Data 274

Raw QC Data 289

Method 8260C Tune Data 289

Method 8260C Blank Data 301

Method 8260C LCS/LCSD Data 315

Method 8260C Run Logs 330

Table of Contents

Method 8260C Prep Data 334

Inorganic Sample Data 337

General Chemistry Data 337

Gen Chem Cover Page 338

Gen Chem MDL 339

Gen Chem Analysis Run Log 341

Gen Chem Prep Data 342

Shipping and Receiving Documents 343

Client Chain of Custody 344

Sample Receipt Checklist 346

Job Narrative
480-137801-1

Receipt
The samples were received on 6/21/2018 10:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-421262 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: PDI-10-SO-S7-06182018 (480-137801-1).

Method 8260C: The following sample was frozen outside of 48 hours, but analyzed within analytical hold time: PDI-10-SO-S7-06182018 (480-137801-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-421976 recovered above the upper control limit for 2-Butanone, Cyclohexane, Dichlorobromomethane, and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: FB-06192018 (480-137801-2), PDI-11-WG-75-06182018 (480-137801-3), PDI-111-WG-75-06182018 (480-137801-4), PDI-TB-06192018 (480-137801-5) and PDI-10-WG-74-06182018 (480-137801-6).

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137801-1	PDI-10-SO-S7-06182018	Solid	06/18/18 14:50	06/21/18 10:40
480-137801-2	FB-06192018	Water	06/19/18 10:10	06/21/18 10:40
480-137801-3	PDI-11-WG-75-06182018	Water	06/19/18 12:55	06/21/18 10:40
480-137801-4	PDI-111-WG-75-06182018	Water	06/19/18 13:00	06/21/18 10:40
480-137801-5	PDI-TB-06192018	Water	06/19/18 00:00	06/21/18 10:40
480-137801-6	PDI-10-WG-74-06182018	Water	06/18/18 15:30	06/21/18 10:40

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-SO-S7-06182018 — Lab Sample ID: 480-137801-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.9	J H	22	1.6	ug/Kg	1	☼	8260C	Total/NA
Acetone	17	J H	22	3.6	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	17	H	4.3	0.95	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: FB-06192018 — Lab Sample ID: 480-137801-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.7		1.0	0.44	ug/L	1		8260C	Total/NA
Acetone	7.3	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-11-WG-75-06182018 — Lab Sample ID: 480-137801-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.40	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.60	J	1.0	0.32	ug/L	1		8260C	Total/NA
Bromoform	0.81	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-111-WG-75-06182018 — Lab Sample ID: 480-137801-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.42	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.64	J	1.0	0.32	ug/L	1		8260C	Total/NA
Bromoform	0.63	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-TB-06192018 — Lab Sample ID: 480-137801-5

No Detections.

Client Sample ID: PDI-10-WG-74-06182018 — Lab Sample ID: 480-137801-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	9.4		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: PDI-10-SO-S7-06182018

Date Collected: 06/18/18 14:50
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-1

Matrix: Solid
Percent Solids: 80.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.3	0.31	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2,2-Tetrachloroethane	ND	H	4.3	0.70	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.3	0.99	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2-Trichloroethane	ND	H	4.3	0.56	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1-Dichloroethane	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1-Dichloroethene	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2,4-Trichlorobenzene	ND	H	4.3	0.26	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dibromo-3-Chloropropane	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichlorobenzene	ND	H	4.3	0.34	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichloroethane	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichloropropane	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,3-Dichlorobenzene	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,4-Dichlorobenzene	ND	H	4.3	0.61	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
2-Butanone (MEK)	**2.9**	**J H**	22	1.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
2-Hexanone	ND	H	22	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
4-Methyl-2-pentanone (MIBK)	ND	H	22	1.4	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Acetone	**17**	**J H**	22	3.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Benzene	ND	H	4.3	0.21	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromoform	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromomethane	ND	H	4.3	0.39	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Carbon disulfide	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Carbon tetrachloride	ND	H	4.3	0.42	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chlorobenzene	ND	H	4.3	0.57	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Dibromochloromethane	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloroethane	ND	H	4.3	0.98	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloroform	ND	H	4.3	0.27	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloromethane	ND	H	4.3	0.26	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
cis-1,2-Dichloroethene	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Cyclohexane	ND	H	4.3	0.61	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromodichloromethane	ND	H	4.3	0.58	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Dichlorodifluoromethane	ND	H	4.3	0.36	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Ethylbenzene	ND	H	4.3	0.30	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dibromoethane	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Isopropylbenzene	ND	H	4.3	0.65	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methyl acetate	ND	H	22	2.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methyl tert-butyl ether	ND	H	4.3	0.42	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methylcyclohexane	ND	H	4.3	0.66	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methylene Chloride	ND	H	4.3	2.0	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Tetrachloroethene	ND	H	4.3	0.58	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Toluene	ND	H	4.3	0.33	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
trans-1,2-Dichloroethene	ND	H	4.3	0.45	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
trans-1,3-Dichloropropene	ND	H	4.3	1.9	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Trichloroethene	**17**	**H**	4.3	0.95	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Trichlorofluoromethane	ND	H	4.3	0.41	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Vinyl chloride	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Xylenes, Total	ND	H	8.6	0.73	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
cis-1,3-Dichloropropene	ND	H	4.3	0.62	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Styrene	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1

Client Sample ID: PDI-10-SO-S7-06182018

Lab Sample ID: 480-137801-1

Date Collected: 06/18/18 14:50
Matrix: Solid
Date Received: 06/21/18 10:40
Percent Solids: 80.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/21/18 11:00*	*06/24/18 11:36*	*1*

Client Sample ID: FB-06192018

Lab Sample ID: 480-137801-2

Date Collected: 06/19/18 10:10
Matrix: Water
Date Received: 06/21/18 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 23:32	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 23:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 23:32	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 23:32	1
Methylene Chloride	**4.7**		1.0	0.44	ug/L			06/27/18 23:32	1
Acetone	**7.3**	**J**	10	3.0	ug/L			06/27/18 23:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 23:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 23:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 23:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 23:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 23:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 23:32	1
Chloroform	ND		1.0	0.34	ug/L			06/27/18 23:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 23:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 23:32	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 23:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 23:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 23:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 23:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 23:32	1
Trichloroethene	ND		1.0	0.46	ug/L			06/27/18 23:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/27/18 23:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 23:32	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 23:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 23:32	1
Bromoform	ND		1.0	0.26	ug/L			06/27/18 23:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 23:32	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 23:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 23:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 23:32	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 23:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 23:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 23:32	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 23:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 23:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 23:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 23:32	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 23:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 23:32	1

Client Sample ID: FB-06192018

Date Collected: 06/19/18 10:10
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 23:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 23:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 23:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 23:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 23:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 23:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 23:32	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 23:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/27/18 23:32*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/27/18 23:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/27/18 23:32*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/27/18 23:32*	*1*

Client Sample ID: PDI-11-WG-75-06182018

Date Collected: 06/19/18 12:55
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 23:55	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 23:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 23:55	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 23:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/27/18 23:55	1
Acetone	**9.0**	**J**	10	3.0	ug/L			06/27/18 23:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 23:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 23:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 23:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 23:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 23:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 23:55	1
Chloroform	**0.40**	**J**	1.0	0.34	ug/L			06/27/18 23:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 23:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 23:55	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 23:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 23:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 23:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 23:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 23:55	1
Trichloroethene	**13**		1.0	0.46	ug/L			06/27/18 23:55	1
Dibromochloromethane	**0.60**	**J**	1.0	0.32	ug/L			06/27/18 23:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 23:55	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 23:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 23:55	1
Bromoform	**0.81**	**J**	1.0	0.26	ug/L			06/27/18 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 23:55	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 23:55	1

Client Sample ID: PDI-11-WG-75-06182018

Date Collected: 06/19/18 12:55
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 23:55	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 23:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 23:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 23:55	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 23:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 23:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 23:55	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 23:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 23:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 23:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 23:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 23:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 23:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 23:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 23:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 23:55	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 23:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/27/18 23:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/18 23:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*06/27/18 23:55*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/27/18 23:55*	*1*

Client Sample ID: PDI-111-WG-75-06182018

Date Collected: 06/19/18 13:00
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 00:18	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 00:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 00:18	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 00:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 00:18	1
Acetone	**5.8**	**J**	10	3.0	ug/L			06/28/18 00:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 00:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 00:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 00:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 00:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 00:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 00:18	1
Chloroform	**0.42**	**J**	1.0	0.34	ug/L			06/28/18 00:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 00:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 00:18	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 00:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 00:18	1

Client Sample ID: PDI-111-WG-75-06182018

Lab Sample ID: 480-137801-4

Date Collected: 06/19/18 13:00

Matrix: Water

Date Received: 06/21/18 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 00:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 00:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 00:18	1
Trichloroethene	**13**		1.0	0.46	ug/L			06/28/18 00:18	1
Dibromochloromethane	**0.64**	**J**	1.0	0.32	ug/L			06/28/18 00:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 00:18	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 00:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 00:18	1
Bromoform	**0.63**	**J**	1.0	0.26	ug/L			06/28/18 00:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 00:18	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 00:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 00:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 00:18	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 00:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 00:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 00:18	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 00:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 00:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 00:18	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 00:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 00:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 00:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 00:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 00:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 00:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 00:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 00:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 00:18	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 00:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/28/18 00:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/18 00:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/28/18 00:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/28/18 00:18*	*1*

Client Sample ID: PDI-TB-06192018

Lab Sample ID: 480-137801-5

Date Collected: 06/19/18 00:00

Matrix: Water

Date Received: 06/21/18 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 00:41	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 00:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 00:41	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 00:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 00:41	1
Acetone	ND		10	3.0	ug/L			06/28/18 00:41	1

Client Sample ID: PDI-TB-06192018

Date Collected: 06/19/18 00:00
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 00:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 00:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 00:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 00:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 00:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 00:41	1
Chloroform	ND		1.0	0.34	ug/L			06/28/18 00:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 00:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 00:41	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 00:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 00:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 00:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 00:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 00:41	1
Trichloroethene	ND		1.0	0.46	ug/L			06/28/18 00:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/18 00:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 00:41	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 00:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 00:41	1
Bromoform	ND		1.0	0.26	ug/L			06/28/18 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 00:41	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 00:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 00:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 00:41	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 00:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 00:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 00:41	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 00:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 00:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 00:41	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 00:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 00:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 00:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 00:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 00:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 00:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 00:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 00:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 00:41	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 00:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*06/28/18 00:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/18 00:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/28/18 00:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/28/18 00:41*	*1*

Client Sample ID: PDI-10-WG-74-06182018

Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 01:04	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 01:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 01:04	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 01:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 01:04	1
Acetone	**4.8**	**J**	10	3.0	ug/L			06/28/18 01:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 01:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 01:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 01:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 01:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 01:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 01:04	1
Chloroform	ND		1.0	0.34	ug/L			06/28/18 01:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 01:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 01:04	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 01:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 01:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 01:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 01:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 01:04	1
Trichloroethene	**9.4**		1.0	0.46	ug/L			06/28/18 01:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/18 01:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 01:04	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 01:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 01:04	1
Bromoform	ND		1.0	0.26	ug/L			06/28/18 01:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 01:04	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 01:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 01:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 01:04	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 01:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 01:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 01:04	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 01:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 01:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 01:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 01:04	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 01:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 01:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 01:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 01:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 01:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 01:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 01:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 01:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 01:04	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 01:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 01:04	1

Client Sample ID: PDI-10-WG-74-06182018

Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/28/18 01:04	1
Toluene-d8 (Surr)	100		80 - 120		06/28/18 01:04	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/28/18 01:04	1
Dibromofluoromethane (Surr)	102		75 - 123		06/28/18 01:04	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-137801-1	PDI-10-SO-S7-06182018	108	96	102	101
LCS 480-421273/1-A	Lab Control Sample	96	101	105	100
MB 480-421273/2-A	Method Blank	98	96	103	97

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-137801-2	FB-06192018	105	101	100	99
480-137801-3	PDI-11-WG-75-06182018	104	99	95	102
480-137801-4	PDI-111-WG-75-06182018	104	101	98	101
480-137801-5	PDI-TB-06192018	106	101	99	103
480-137801-6	PDI-10-WG-74-06182018	102	100	99	102
LCS 480-421976/4	Lab Control Sample	104	102	98	104
MB 480-421976/6	Method Blank	110	99	96	103

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-421273/2-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Acetone	ND		25	4.2	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Benzene	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromoform	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloroform	ND		5.0	0.31	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
2-Hexanone	ND		25	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Toluene	ND		5.0	0.38	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methyl acetate	ND		25	3.0	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Styrene	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*06/24/18 10:19*	*06/24/18 10:55*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*06/24/18 10:19*	*06/24/18 10:55*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*06/24/18 10:19*	*06/24/18 10:55*	*1*
Dibromofluoromethane (Surr)	*97*		*60 - 140*	*06/24/18 10:19*	*06/24/18 10:55*	*1*

Lab Sample ID: LCS 480-421273/1-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	48.9		ug/Kg		98	59 - 125
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	73 - 126
1,2-Dichloroethane	50.0	45.5		ug/Kg		91	77 - 122
2-Butanone (MEK)	250	271		ug/Kg		108	70 - 134
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	77 - 121
Acetone	250	211		ug/Kg		85	61 - 137
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	75 - 124
Bromomethane	50.0	43.0		ug/Kg		86	37 - 149
Carbon disulfide	50.0	51.0		ug/Kg		102	64 - 131
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	78 - 122
Carbon tetrachloride	50.0	43.0		ug/Kg		86	75 - 135
Benzene	50.0	52.2		ug/Kg		104	79 - 127
Dibromochloromethane	50.0	51.0		ug/Kg		102	76 - 125
Bromoform	50.0	51.5		ug/Kg		103	68 - 126
Chloroethane	50.0	42.6		ug/Kg		85	69 - 135
4-Methyl-2-pentanone (MIBK)	250	272		ug/Kg		109	65 - 133
Chloroform	50.0	48.5		ug/Kg		97	80 - 120
2-Hexanone	250	268		ug/Kg		107	59 - 130
Chloromethane	50.0	44.6		ug/Kg		89	63 - 127
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	81 - 120
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	80 - 120
Bromodichloromethane	50.0	49.0		ug/Kg		98	80 - 122
Chlorobenzene	50.0	51.4		ug/Kg		103	76 - 124
Ethylbenzene	50.0	51.3		ug/Kg		103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.2		ug/Kg		88	60 - 140
Methyl tert-butyl ether	50.0	46.3		ug/Kg		93	63 - 125
Methylene Chloride	50.0	51.8		ug/Kg		104	61 - 127
Cyclohexane	50.0	45.8		ug/Kg		92	65 - 120
Tetrachloroethene	50.0	49.9		ug/Kg		100	74 - 122
1,2-Dibromoethane	50.0	51.0		ug/Kg		102	78 - 120
Toluene	50.0	51.7		ug/Kg		103	74 - 128
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	50.7		ug/Kg		101	73 - 120
trans-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	78 - 126
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
trans-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	73 - 123
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	57 - 142
Trichloroethene	50.0	49.2		ug/Kg		98	77 - 129
1,2,4-Trichlorobenzene	50.0	50.1		ug/Kg		100	64 - 120
Trichlorofluoromethane	50.0	43.4		ug/Kg		87	65 - 146
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/Kg		102	63 - 124
Vinyl chloride	50.0	43.2		ug/Kg		86	61 - 133
Isopropylbenzene	50.0	50.8		ug/Kg		102	72 - 120

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

Lab Sample ID: LCS 480-421273/1-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	80 - 120
Methyl acetate	100	120		ug/Kg		120	55 - 136
Methylcyclohexane	50.0	45.4		ug/Kg		91	60 - 140
Styrene	50.0	51.1		ug/Kg		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*
Toluene-d8 (Surr)	*105*		*71 - 125*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Lab Sample ID: MB 480-421976/6
Matrix: Water
Analysis Batch: 421976

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 21:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 21:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 21:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 21:24	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 21:24	1
Acetone	ND		10	3.0	ug/L			06/27/18 21:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 21:24	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 21:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 21:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 21:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 21:24	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 21:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/27/18 21:24	1
Bromoform	ND		1.0	0.26	ug/L			06/27/18 21:24	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 21:24	1
Chloroform	ND		1.0	0.34	ug/L			06/27/18 21:24	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 21:24	1
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 21:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 21:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 21:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 21:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 21:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 21:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 21:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/27/18 21:24	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 21:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 21:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 21:24	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 21:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 21:24	1

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

Lab Sample ID: MB 480-421976/6
Matrix: Water
Analysis Batch: 421976

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 21:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 21:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 21:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 21:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 21:24	1
Trichloroethene	ND		1.0	0.46	ug/L			06/27/18 21:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 21:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 21:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 21:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 21:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 21:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 21:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 21:24	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 21:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 21:24	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*06/27/18 21:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/27/18 21:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/18 21:24*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/27/18 21:24*	*1*

Lab Sample ID: LCS 480-421976/4
Matrix: Water
Analysis Batch: 421976

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	30.6		ug/L		122	66 - 127
1,1-Dichloroethane	25.0	27.7		ug/L		111	77 - 120
1,2-Dichloroethane	25.0	27.0		ug/L		108	75 - 120
2-Butanone (MEK)	125	154		ug/L		123	57 - 140
1,1,1-Trichloroethane	25.0	27.9		ug/L		112	73 - 126
Acetone	125	138		ug/L		111	56 - 142
1,2-Dichloropropane	25.0	25.9		ug/L		103	76 - 120
Bromomethane	25.0	26.9		ug/L		108	55 - 144
Carbon disulfide	25.0	28.4		ug/L		114	59 - 134
1,1,2-Trichloroethane	25.0	27.5		ug/L		110	76 - 122
Carbon tetrachloride	25.0	29.6		ug/L		119	72 - 134
Benzene	25.0	26.9		ug/L		108	71 - 124
Dibromochloromethane	25.0	28.2		ug/L		113	75 - 125
Bromoform	25.0	28.4		ug/L		114	61 - 132
Chloroethane	25.0	26.8		ug/L		107	69 - 136
4-Methyl-2-pentanone (MIBK)	125	146		ug/L		117	71 - 125
Chloroform	25.0	26.9		ug/L		108	73 - 127
2-Hexanone	125	146		ug/L		117	65 - 127
Chloromethane	25.0	26.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	74 - 124

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

Lab Sample ID: LCS 480-421976/4
Matrix: Water
Analysis Batch: 421976

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	28.5		ug/L		114	76 - 120
Bromodichloromethane	25.0	28.4		ug/L		114	80 - 122
Chlorobenzene	25.0	27.2		ug/L		109	80 - 120
Ethylbenzene	25.0	27.8		ug/L		111	77 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		112	61 - 148
Methyl tert-butyl ether	25.0	27.2		ug/L		109	77 - 120
Methylene Chloride	25.0	25.9		ug/L		104	75 - 124
Cyclohexane	25.0	30.1		ug/L		120	59 - 135
Tetrachloroethene	25.0	27.9		ug/L		112	74 - 122
1,2-Dibromoethane	25.0	28.6		ug/L		114	77 - 120
Toluene	25.0	27.2		ug/L		109	80 - 122
1,3-Dichlorobenzene	25.0	27.7		ug/L		111	77 - 120
1,4-Dichlorobenzene	25.0	27.7		ug/L		111	80 - 120
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	73 - 127
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 124
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Dichlorodifluoromethane	25.0	27.3		ug/L		109	59 - 135
Trichloroethene	25.0	27.5		ug/L		110	74 - 123
1,2,4-Trichlorobenzene	25.0	28.5		ug/L		114	79 - 122
Trichlorofluoromethane	25.0	29.9		ug/L		119	62 - 150
1,2-Dibromo-3-Chloropropane	25.0	28.4		ug/L		114	56 - 134
Vinyl chloride	25.0	27.2		ug/L		109	65 - 133
Isopropylbenzene	25.0	28.5		ug/L		114	77 - 122
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	74 - 124
Methyl acetate	50.0	61.1		ug/L		122	74 - 133
Methylcyclohexane	25.0	30.9		ug/L		124	68 - 134
Styrene	25.0	27.3		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

GC/MS VOA

Analysis Batch: 421262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	8260C	421273
MB 480-421273/2-A	Method Blank	Total/NA	Solid	8260C	421273
LCS 480-421273/1-A	Lab Control Sample	Total/NA	Solid	8260C	421273

Prep Batch: 421273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	5035A_L	
MB 480-421273/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-421273/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 421976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-2	FB-06192018	Total/NA	Water	8260C	
480-137801-3	PDI-11-WG-75-06182018	Total/NA	Water	8260C	
480-137801-4	PDI-111-WG-75-06182018	Total/NA	Water	8260C	
480-137801-5	PDI-TB-06192018	Total/NA	Water	8260C	
480-137801-6	PDI-10-WG-74-06182018	Total/NA	Water	8260C	
MB 480-421976/6	Method Blank	Total/NA	Water	8260C	
LCS 480-421976/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 421044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-10-SO-S7-06182018
Lab Sample ID: 480-137801-1
Date Collected: 06/18/18 14:50
Matrix: Solid
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	421044	06/22/18 10:28	LMS	TAL BUF

Client Sample ID: PDI-10-SO-S7-06182018
Lab Sample ID: 480-137801-1
Date Collected: 06/18/18 14:50
Matrix: Solid
Date Received: 06/21/18 10:40
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			421273	06/21/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	421262	06/24/18 11:36	AMM	TAL BUF

Client Sample ID: FB-06192018
Lab Sample ID: 480-137801-2
Date Collected: 06/19/18 10:10
Matrix: Water
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/27/18 23:32	NMC	TAL BUF

Client Sample ID: PDI-11-WG-75-06182018
Lab Sample ID: 480-137801-3
Date Collected: 06/19/18 12:55
Matrix: Water
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/27/18 23:55	NMC	TAL BUF

Client Sample ID: PDI-111-WG-75-06182018
Lab Sample ID: 480-137801-4
Date Collected: 06/19/18 13:00
Matrix: Water
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 00:18	NMC	TAL BUF

Client Sample ID: PDI-TB-06192018
Lab Sample ID: 480-137801-5
Date Collected: 06/19/18 00:00
Matrix: Water
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 00:41	NMC	TAL BUF

Client Sample ID: PDI-10-WG-74-06182018

Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 01:04	NMC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 480-137801-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-10-SO-S7-06182018	480-137801-1	101	108	102	96
	MB 480-421273/2-A	97	98	103	96
	LCS 480-421273/1-A	100	96	105	101

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): ZB-624 (20) ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
FB-06192018	480-137801-2	99	105	101	100
PDI-11-WG-75-06182018	480-137801-3	102	104	99	95
PDI-111-WG-75-06182018	480-137801-4	101	104	101	98
PDI-TB-06192018	480-137801-5	103	106	101	99
PDI-10-WG-74-06182018	480-137801-6	102	102	100	99
	MB 480-421976/6	103	110	99	96
	LCS 480-421976/4	104	104	102	98

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

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F2993.D

Lab ID: LCS 480-421273/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	50.0	48.9	98	59-125	
1,1-Dichloroethane	50.0	49.5	99	73-126	
1,2-Dichloroethane	50.0	45.5	91	77-122	
2-Butanone (MEK)	250	271	108	70-134	
1,1,1-Trichloroethane	50.0	44.5	89	77-121	
Acetone	250	211	85	61-137	
1,2-Dichloropropane	50.0	50.8	102	75-124	
Bromomethane	50.0	43.0	86	37-149	
Carbon disulfide	50.0	51.0	102	64-131	
1,1,2-Trichloroethane	50.0	51.3	103	78-122	
Carbon tetrachloride	50.0	43.0	86	75-135	
Benzene	50.0	52.2	104	79-127	
Dibromochloromethane	50.0	51.0	102	76-125	
Bromoform	50.0	51.5	103	68-126	
Chloroethane	50.0	42.6	85	69-135	
4-Methyl-2-pentanone (MIBK)	250	272	109	65-133	
Chloroform	50.0	48.5	97	80-120	
2-Hexanone	250	268	107	59-130	
Chloromethane	50.0	44.6	89	63-127	
cis-1,2-Dichloroethene	50.0	50.7	101	81-120	
1,1,2,2-Tetrachloroethane	50.0	52.0	104	80-120	
Bromodichloromethane	50.0	49.0	98	80-122	
Chlorobenzene	50.0	51.4	103	76-124	
Ethylbenzene	50.0	51.3	103	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.2	88	60-140	
Methyl tert-butyl ether	50.0	46.3	93	63-125	
Methylene Chloride	50.0	51.8	104	61-127	
Cyclohexane	50.0	45.8	92	65-120	
Tetrachloroethene	50.0	49.9	100	74-122	
1,2-Dibromoethane	50.0	51.0	102	78-120	
Toluene	50.0	51.7	103	74-128	
1,3-Dichlorobenzene	50.0	51.2	102	74-120	
1,4-Dichlorobenzene	50.0	50.7	101	73-120	
trans-1,2-Dichloroethene	50.0	50.3	101	78-126	
1,2-Dichlorobenzene	50.0	50.1	100	75-120	
trans-1,3-Dichloropropene	50.0	48.8	98	73-123	
Dichlorodifluoromethane	50.0	42.4	85	57-142	
Trichloroethene	50.0	49.2	98	77-129	
1,2,4-Trichlorobenzene	50.0	50.1	100	64-120	
Trichlorofluoromethane	50.0	43.4	87	65-146	
1,2-Dibromo-3-Chloropropane	50.0	50.8	102	63-124	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F2993.D

Lab ID: LCS 480-421273/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	50.0	43.2	86	61-133	
Isopropylbenzene	50.0	50.8	102	72-120	
cis-1,3-Dichloropropene	50.0	49.0	98	80-120	
Methyl acetate	100	120	120	55-136	
Methylcyclohexane	50.0	45.4	91	60-140	
Styrene	50.0	51.1	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2881.D

Lab ID: LCS 480-421976/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1-Dichloroethene	25.0	30.6	122	66-127	
1,1-Dichloroethane	25.0	27.7	111	77-120	
1,2-Dichloroethane	25.0	27.0	108	75-120	
2-Butanone (MEK)	125	154	123	57-140	
1,1,1-Trichloroethane	25.0	27.9	112	73-126	
Acetone	125	138	111	56-142	
1,2-Dichloropropane	25.0	25.9	103	76-120	
Bromomethane	25.0	26.9	108	55-144	
Carbon disulfide	25.0	28.4	114	59-134	
1,1,2-Trichloroethane	25.0	27.5	110	76-122	
Carbon tetrachloride	25.0	29.6	119	72-134	
Benzene	25.0	26.9	108	71-124	
Dibromochloromethane	25.0	28.2	113	75-125	
Bromoform	25.0	28.4	114	61-132	
Chloroethane	25.0	26.8	107	69-136	
4-Methyl-2-pentanone (MIBK)	125	146	117	71-125	
Chloroform	25.0	26.9	108	73-127	
2-Hexanone	125	146	117	65-127	
Chloromethane	25.0	26.0	104	68-124	
cis-1,2-Dichloroethene	25.0	27.4	110	74-124	
1,1,2,2-Tetrachloroethane	25.0	28.5	114	76-120	
Bromodichloromethane	25.0	28.4	114	80-122	
Chlorobenzene	25.0	27.2	109	80-120	
Ethylbenzene	25.0	27.8	111	77-123	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1	112	61-148	
Methyl tert-butyl ether	25.0	27.2	109	77-120	
Methylene Chloride	25.0	25.9	104	75-124	
Cyclohexane	25.0	30.1	120	59-135	
Tetrachloroethene	25.0	27.9	112	74-122	
1,2-Dibromoethane	25.0	28.6	114	77-120	
Toluene	25.0	27.2	109	80-122	
1,3-Dichlorobenzene	25.0	27.7	111	77-120	
1,4-Dichlorobenzene	25.0	27.7	111	80-120	
trans-1,2-Dichloroethene	25.0	27.8	111	73-127	
1,2-Dichlorobenzene	25.0	26.9	108	80-124	
trans-1,3-Dichloropropene	25.0	27.1	108	80-120	
Dichlorodifluoromethane	25.0	27.3	109	59-135	
Trichloroethene	25.0	27.5	110	74-123	
1,2,4-Trichlorobenzene	25.0	28.5	114	79-122	
Trichlorofluoromethane	25.0	29.9	119	62-150	
1,2-Dibromo-3-Chloropropane	25.0	28.4	114	56-134	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Matrix: Water Level: Low Lab File ID: S2881.D

Lab ID: LCS 480-421976/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Vinyl chloride	25.0	27.2	109	65-133	
Isopropylbenzene	25.0	28.5	114	77-122	
cis-1,3-Dichloropropene	25.0	27.2	109	74-124	
Methyl acetate	50.0	61.1	122	74-133	
Methylcyclohexane	25.0	30.9	124	68-134	
Styrene	25.0	27.3	109	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: F2995.D Lab Sample ID: MB 480-421273/2-A

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

Instrument ID: HP5973F Date Analyzed: 06/24/2018 10:55

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421273/1-A	F2993.D	06/24/2018 10:03
PDI-10-SO-S7-06182018	480-137801-1	F2996.D	06/24/2018 11:36

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: S2883.D Lab Sample ID: MB 480-421976/6

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

Instrument ID: HP5973S Date Analyzed: 06/27/2018 21:24

GC Column: ZB-624 (20) ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-421976/4	S2881.D	06/27/2018 20:25
FB-06192018	480-137801-2	S2888.D	06/27/2018 23:32
PDI-11-WG-75-06182018	480-137801-3	S2889.D	06/27/2018 23:55
PDI-111-WG-75-06182018	480-137801-4	S2890.D	06/28/2018 00:18
PDI-TB-06192018	480-137801-5	S2891.D	06/28/2018 00:41
PDI-10-WG-74-06182018	480-137801-6	S2892.D	06/28/2018 01:04

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: F2156.D BFB Injection Date: 05/08/2018

Instrument ID: HP5973F BFB Injection Time: 12:17

Analysis Batch No.: 413081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	84.5	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.1	(98.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-413081/6	F2158.D	05/08/2018	13:08
	IC 480-413081/7	F2159.D	05/08/2018	13:33
	IC 480-413081/8	F2160.D	05/08/2018	13:59
	IC 480-413081/9	F2161.D	05/08/2018	14:25
	ICIS 480-413081/10	F2162.D	05/08/2018	14:50
	IC 480-413081/11	F2163.D	05/08/2018	15:15
	IC 480-413081/12	F2164.D	05/08/2018	15:41

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: F2990.D BFB Injection Date: 06/24/2018

Instrument ID: HP5973F BFB Injection Time: 08:32

Analysis Batch No.: 421262

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.8	
75	30.0 - 60.0 % of mass 95	47.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	86.0	
175	5.0 - 9.0 % of mass 174	6.1	(7.1) 1
176	95.0 - 101.0 % of mass 174	83.2	(96.8) 1
177	5.0 - 9.0 % of mass 176	5.8	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421262/3	F2991.D	06/24/2018	09:04
	LCS 480-421273/1-A	F2993.D	06/24/2018	10:03
	MB 480-421273/2-A	F2995.D	06/24/2018	10:55
PDI-10-SO-S7-06182018	480-137801-1	F2996.D	06/24/2018	11:36

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: S2504.D BFB Injection Date: 06/20/2018

Instrument ID: HP5973S BFB Injection Time: 12:54

Analysis Batch No.: 420621

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	79.8	
175	5.0 - 9.0 % of mass 174	6.2	(7.7) 1
176	95.0 - 101.0 % of mass 174	77.9	(97.6) 1
177	5.0 - 9.0 % of mass 176	4.6	(5.9) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-420621/5	S2506.D	06/20/2018	13:51
	IC 480-420621/6	S2507.D	06/20/2018	14:14
	IC 480-420621/7	S2508.D	06/20/2018	14:38
	IC 480-420621/8	S2509.D	06/20/2018	15:01
	IC 480-420621/9	S2510.D	06/20/2018	15:24
	ICIS 480-420621/10	S2511.D	06/20/2018	15:48
	IC 480-420621/11	S2512.D	06/20/2018	16:11
	IC 480-420621/12	S2513.D	06/20/2018	16:34

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab File ID: S2878.D BFB Injection Date: 06/27/2018

Instrument ID: HP5973S BFB Injection Time: 19:06

Analysis Batch No.: 421976

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.0	
75	30.0 - 60.0 % of mass 95	47.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	77.7	
175	5.0 - 9.0 % of mass 174	5.3	(6.8) 1
176	95.0 - 101.0 % of mass 174	74.3	(95.6) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-421976/2	S2879.D	06/27/2018	19:39
	LCS 480-421976/4	S2881.D	06/27/2018	20:25
	MB 480-421976/6	S2883.D	06/27/2018	21:24
FB-06192018	480-137801-2	S2888.D	06/27/2018	23:32
PDI-11-WG-75-06182018	480-137801-3	S2889.D	06/27/2018	23:55
PDI-111-WG-75-06182018	480-137801-4	S2890.D	06/28/2018	00:18
PDI-TB-06192018	480-137801-5	S2891.D	06/28/2018	00:41
PDI-10-WG-74-06182018	480-137801-6	S2892.D	06/28/2018	01:04

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Sample No.: ICIS 480-413081/10 Date Analyzed: 05/08/2018 14:50

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F2162.D Heated Purge: (Y/N) Y

Calibration ID: 33794

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		317300	5.19	641190	7.99	635410	10.36
UPPER LIMIT		634600	5.69	1282380	8.49	1270820	10.86
LOWER LIMIT		158650	4.69	320595	7.49	317705	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-421262/3		251753	5.19	497693	7.99	464657	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Sample No.: CCVIS 480-421262/3 Date Analyzed: 06/24/2018 09:04

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F2991.D Heated Purge: (Y/N) Y

Calibration ID: 33797

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		251753	5.19	497693	7.99	464657	10.36
UPPER LIMIT		503506	5.69	995386	8.49	929314	10.86
LOWER LIMIT		125877	4.69	248847	7.49	232329	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421273/1-A		263394	5.19	530755	7.99	511721	10.36
MB 480-421273/2-A		247009	5.19	510858	7.99	452886	10.36
480-137801-1	PDI-10-SO-S7-06182018	258953	5.19	539369	7.99	482288	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Sample No.: ICIS 480-420621/10 Date Analyzed: 06/20/2018 15:48

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S2511.D Heated Purge: (Y/N) N

Calibration ID: 34116

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		197139	5.51	406209	8.51	365129	10.89
UPPER LIMIT		394278	6.01	812418	9.01	730258	11.39
LOWER LIMIT		98570	5.01	203105	8.01	182565	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-421976/2		163951	5.51	355824	8.51	323237	10.89

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Sample No.: CCVIS 480-421976/2 Date Analyzed: 06/27/2018 19:39

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm)

Lab File ID (Standard): S2879.D Heated Purge: (Y/N) N

Calibration ID: 34119

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		163951	5.51	355824	8.51	323237	10.89
UPPER LIMIT		327902	6.01	711648	9.01	646474	11.39
LOWER LIMIT		81976	5.01	177912	8.01	161619	10.39
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-421976/4		168024	5.51	344598	8.51	315310	10.89
MB 480-421976/6		162852	5.51	343051	8.51	295484	10.89
480-137801-2	FB-06192018	167593	5.51	333088	8.51	298810	10.89
480-137801-3	PDI-11-WG-75-06182018	166391	5.52	340993	8.51	302864	10.89
480-137801-4	PDI-111-WG-75-06182018	166280	5.51	335058	8.51	301072	10.89
480-137801-5	PDI-TB-06192018	157154	5.52	329338	8.51	300331	10.89
480-137801-6	PDI-10-WG-74-06182018	165864	5.51	339651	8.51	304777	10.89

FB = Fluorobenzene (IS)
FB = Fluorobenzene (IS)
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4
Area Limit = 50%-200% of internal standard area
DCBd4 = 1,4-Dichlorobenzene-d4
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-10-SO-S7-06182018 | Lab Sample ID: 480-137801-1

Matrix: Solid | Lab File ID: F2996.D

Analysis Method: 8260C | Date Collected: 06/18/2018 14:50

Sample wt/vol: 7.154(g) | Date Analyzed: 06/24/2018 11:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.2 | Level: (low/med) Low

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	H	4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND	H	4.3	0.70
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.3	0.99
79-00-5	1,1,2-Trichloroethane	ND	H	4.3	0.56
75-34-3	1,1-Dichloroethane	ND	H	4.3	0.53
75-35-4	1,1-Dichloroethene	ND	H	4.3	0.53
120-82-1	1,2,4-Trichlorobenzene	ND	H	4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND	H	4.3	2.2
95-50-1	1,2-Dichlorobenzene	ND	H	4.3	0.34
107-06-2	1,2-Dichloroethane	ND	H	4.3	0.22
78-87-5	1,2-Dichloropropane	ND	H	4.3	2.2
541-73-1	1,3-Dichlorobenzene	ND	H	4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND	H	4.3	0.61
78-93-3	2-Butanone (MEK)	2.9	J H	22	1.6
591-78-6	2-Hexanone	ND	H	22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	H	22	1.4
67-64-1	Acetone	17	J H	22	3.6
71-43-2	Benzene	ND	H	4.3	0.21
75-25-2	Bromoform	ND	H	4.3	2.2
74-83-9	Bromomethane	ND	H	4.3	0.39
75-15-0	Carbon disulfide	ND	H	4.3	2.2
56-23-5	Carbon tetrachloride	ND	H	4.3	0.42
108-90-7	Chlorobenzene	ND	H	4.3	0.57
124-48-1	Dibromochloromethane	ND	H	4.3	0.55
75-00-3	Chloroethane	ND	H	4.3	0.98
67-66-3	Chloroform	ND	H	4.3	0.27
74-87-3	Chloromethane	ND	H	4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND	H	4.3	0.55
110-82-7	Cyclohexane	ND	H	4.3	0.61
75-27-4	Bromodichloromethane	ND	H	4.3	0.58
75-71-8	Dichlorodifluoromethane	ND	H	4.3	0.36
100-41-4	Ethylbenzene	ND	H	4.3	0.30
106-93-4	1,2-Dibromoethane	ND	H	4.3	0.55
98-82-8	Isopropylbenzene	ND	H	4.3	0.65
79-20-9	Methyl acetate	ND	H	22	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-10-SO-S7-06182018 | Lab Sample ID: 480-137801-1

Matrix: Solid | Lab File ID: F2996.D

Analysis Method: 8260C | Date Collected: 06/18/2018 14:50

Sample wt/vol: 7.154(g) | Date Analyzed: 06/24/2018 11:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 19.2 | Level: (low/med) Low

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	H	4.3	0.42
108-87-2	Methylcyclohexane	ND	H	4.3	0.66
75-09-2	Methylene Chloride	ND	H	4.3	2.0
127-18-4	Tetrachloroethene	ND	H	4.3	0.58
108-88-3	Toluene	ND	H	4.3	0.33
156-60-5	trans-1,2-Dichloroethene	ND	H	4.3	0.45
10061-02-6	trans-1,3-Dichloropropene	ND	H	4.3	1.9
79-01-6	Trichloroethene	17	H	4.3	0.95
75-69-4	Trichlorofluoromethane	ND	H	4.3	0.41
75-01-4	Vinyl chloride	ND	H	4.3	0.53
1330-20-7	Xylenes, Total	ND	H	8.6	0.73
10061-01-5	cis-1,3-Dichloropropene	ND	H	4.3	0.62
100-42-5	Styrene	ND	H	4.3	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	101		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2996.D
Lims ID: 480-137801-B-1-B
Client ID: PDI-10-SO-S7-06182018
Sample Type: Client
Inject. Date: 24-Jun-2018 11:36:30 ALS Bottle#: 1 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-B-1-B
Misc. Info.: 480-0072575-009
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 25-Jun-2018 13:14:59 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: moffata Date: 24-Jun-2018 14:53:55

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	258953	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	539369	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	482288	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	94	319832	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	97	221351	53.8	
$ 5 Toluene-d8 (Surr)	98	6.559	6.560	0.000	93	1263450	50.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	403440	48.0	
10 Dichlorodifluoromethane	85		1.808				ND	
12 Chloromethane	50		1.985				ND	
13 Vinyl chloride	62		2.076				ND	
14 Bromomethane	94		2.362				ND	
15 Chloroethane	64		2.417				ND	
17 Trichlorofluoromethane	101		2.593				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.958				ND	
22 1,1-Dichloroethene	96		2.976				ND	
23 Acetone	43	3.037	3.031	0.006	100	54419	20.0	
26 Carbon disulfide	76		3.183				ND	
27 Methyl acetate	43		3.244				ND	
30 Methylene Chloride	84		3.353				ND	
32 Methyl tert-butyl ether	73		3.506				ND	
34 trans-1,2-Dichloroethene	96		3.536				ND	
39 1,1-Dichloroethane	63		3.858				ND	
43 2-Butanone (MEK)	43	4.321	4.296	0.025	96	11680	3.30	
45 cis-1,2-Dichloroethene	96	4.309	4.302	0.007	78	4557	0.5388	
50 Chloroform	83		4.540				ND	
51 1,1,1-Trichloroethane	97		4.686				ND	
52 Cyclohexane	56		4.710				ND	
55 Carbon tetrachloride	117		4.807				ND	
57 Benzene	78		4.984				ND	
58 1,2-Dichloroethane	62		5.020				ND	
62 Trichloroethene	95	5.495	5.513	0.000	98	154993	19.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.635				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.957				ND	
72 cis-1,3-Dichloropropene	75		6.334				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92	6.620	6.620	0.000	98	4241	0.2195	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.144	7.138	0.007	89	4530	0.5213	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.086				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.634				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.920				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.301				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.733				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.420				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00040 Amount Added: 1.00 Units: uL Run Reagent

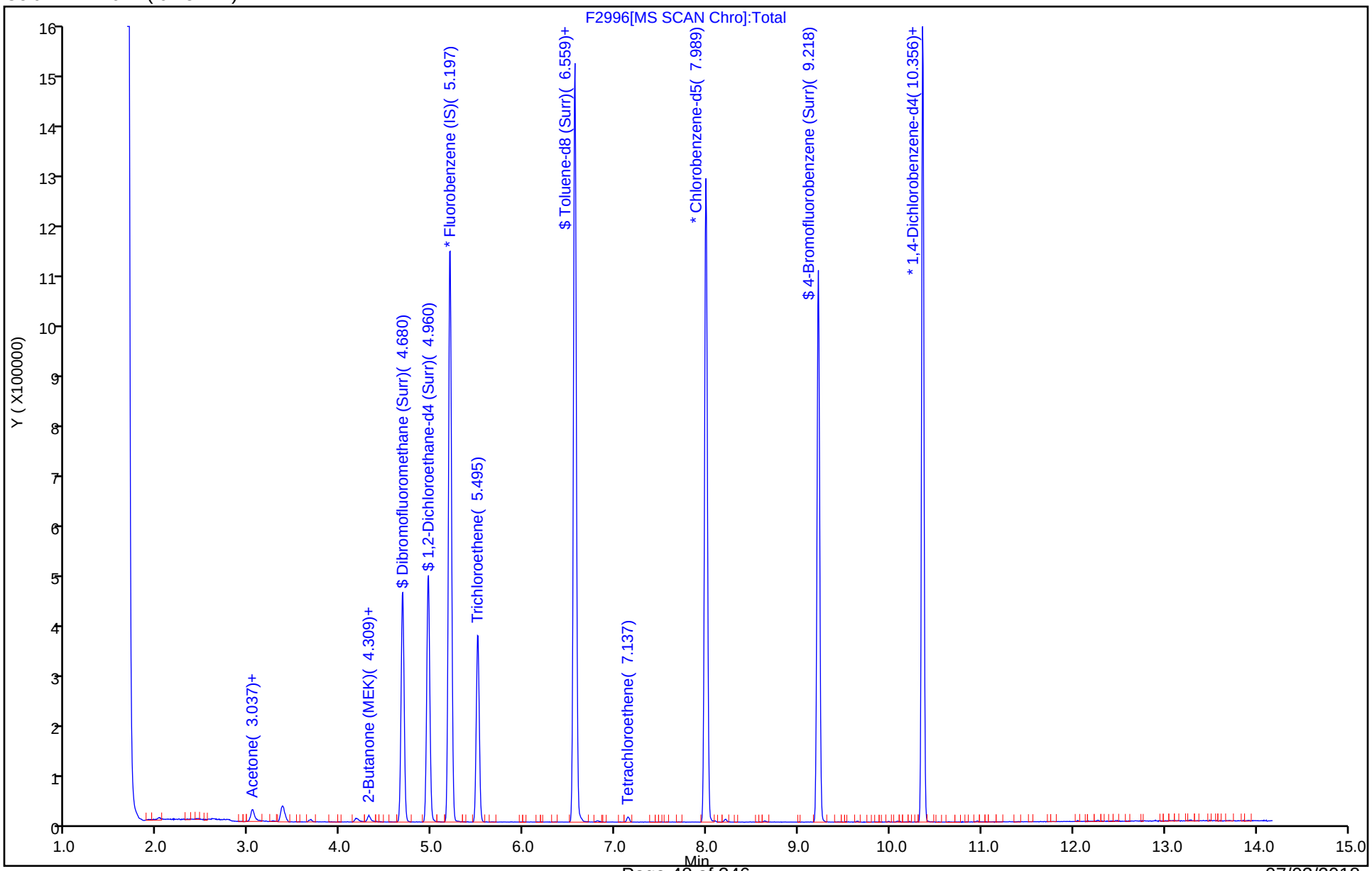
Report Date: 25-Jun-2018 13:30:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2996.D

Injection Date:	24-Jun-2018 11:36:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	480-137801-B-1-B	Lab Sample ID:	480-137801-1	Worklist Smp#:	9
Client ID:	PDI-10-SO-S7-06182018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



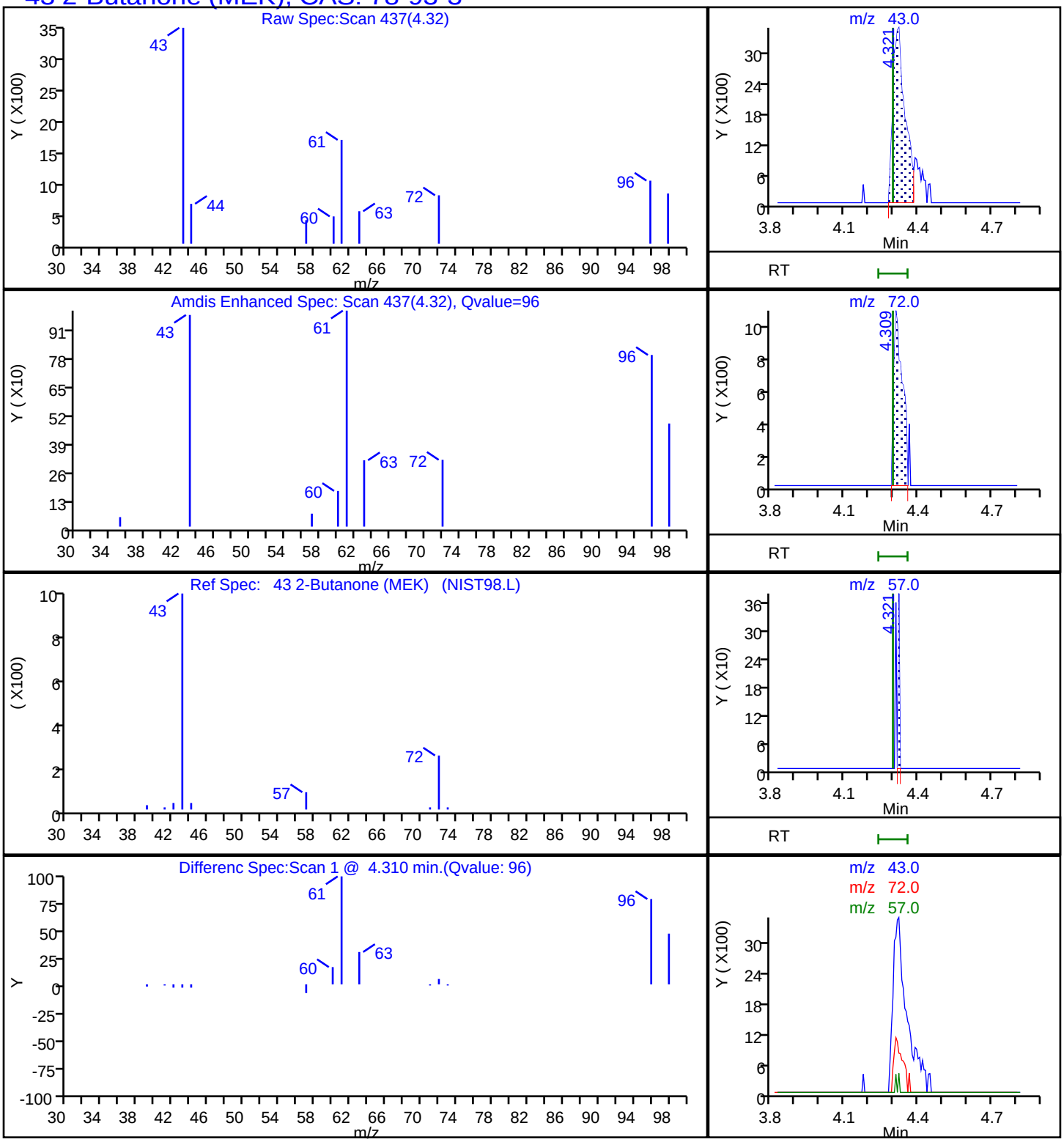
Report Date: 25-Jun-2018 13:30:41 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2996.D

Injection Date:	24-Jun-2018 11:36:30	Instrument ID:	HP5973F
Lims ID:	480-137801-B-1-B	Lab Sample ID:	480-137801-1
Client ID:	PDI-10-SO-S7-06182018		
Operator ID:	AM	ALS Bottle#:	1 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

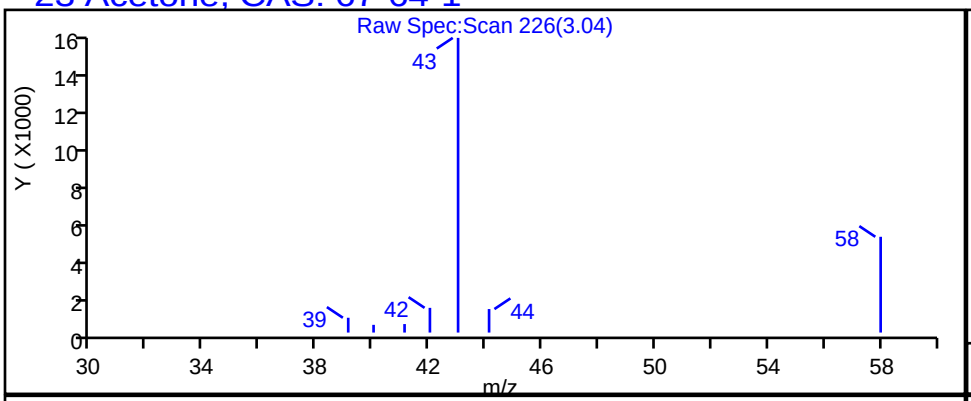
43 2-Butanone (MEK), CAS: 78-93-3

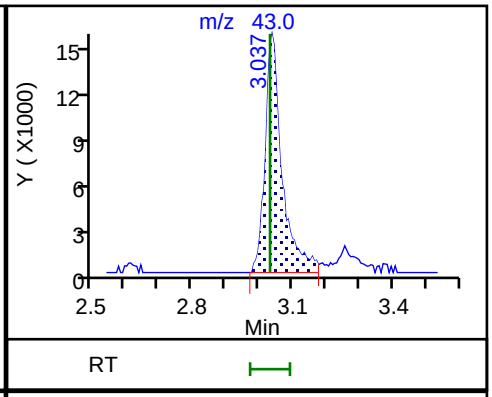


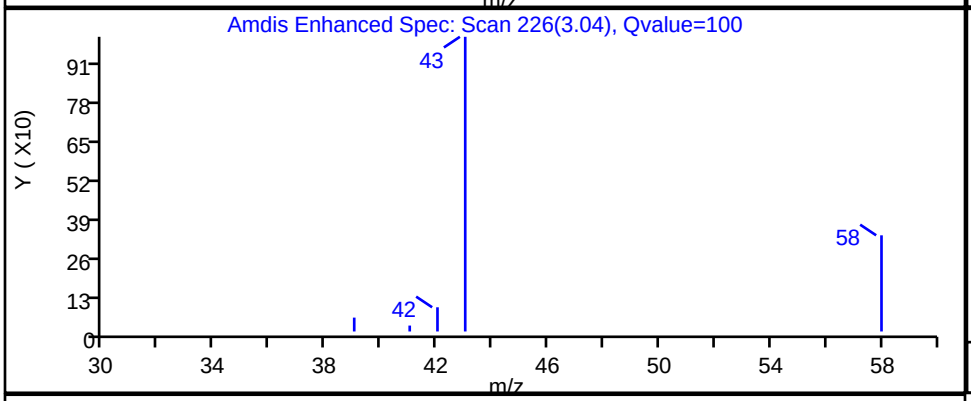
TestAmerica Buffalo

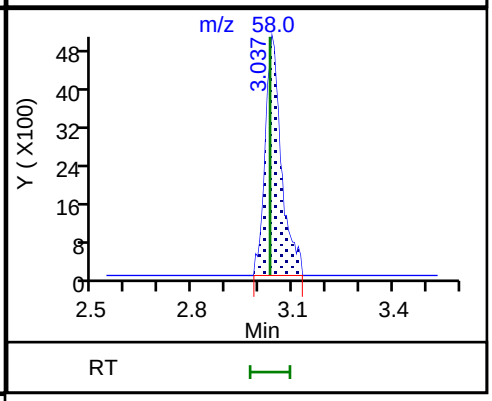
Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2996.D		
Injection Date:	24-Jun-2018 11:36:30	Instrument ID:	HP5973F
Lims ID:	480-137801-B-1-B	Lab Sample ID:	480-137801-1
Client ID:	PDI-10-SO-S7-06182018		
Operator ID:	AM	ALS Bottle#:	1 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

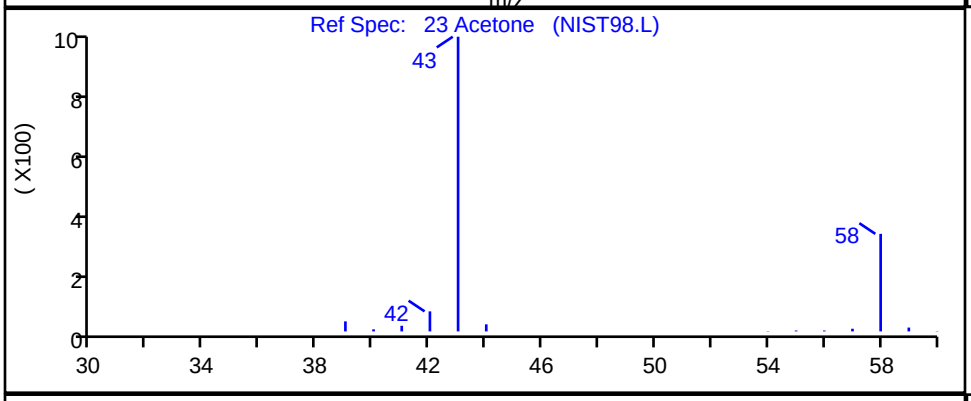
23 Acetone, CAS: 67-64-1

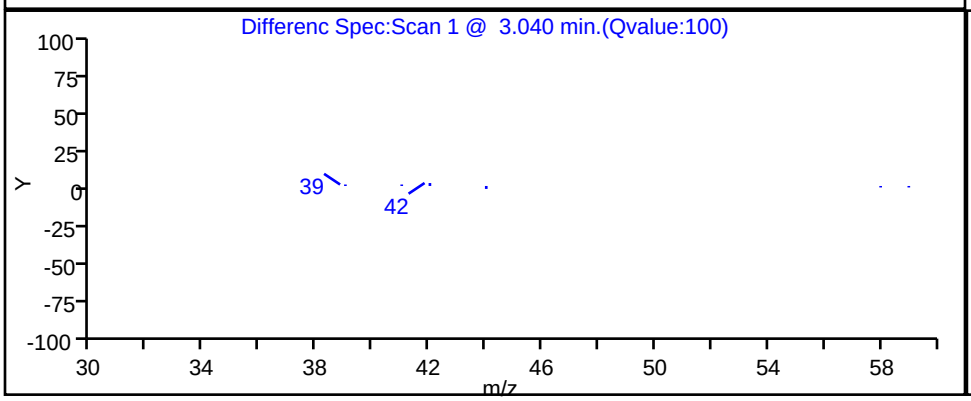


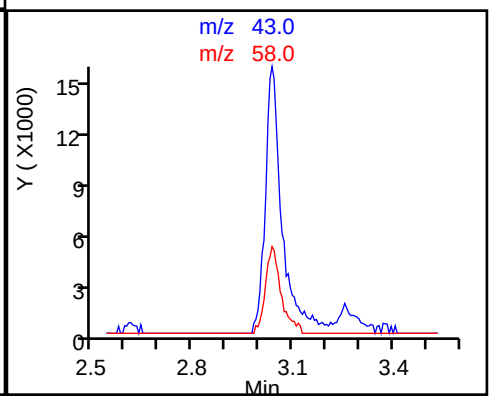








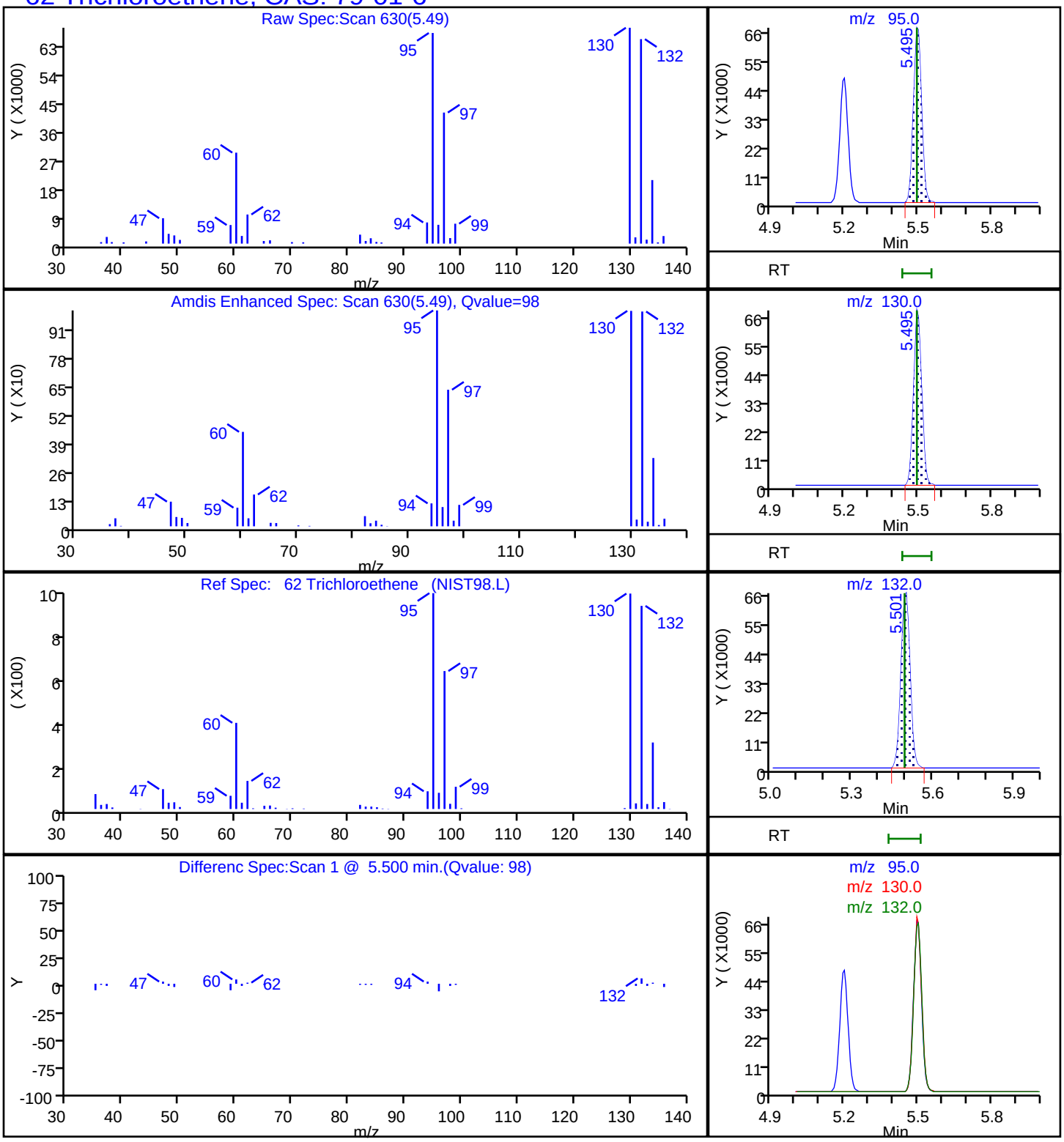




TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2996.D		
Injection Date:	24-Jun-2018 11:36:30	Instrument ID:	HP5973F
Lims ID:	480-137801-B-1-B	Lab Sample ID:	480-137801-1
Client ID:	PDI-10-SO-S7-06182018		
Operator ID:	AM	ALS Bottle#:	1 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: FB-06192018 | Lab Sample ID: 480-137801-2

Matrix: Water | Lab File ID: S2888.D

Analysis Method: 8260C | Date Collected: 06/19/2018 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 23:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.35
74-83-9	Bromomethane	ND		1.0	0.69
75-01-4	Vinyl chloride	ND		1.0	0.90
75-00-3	Chloroethane	ND		1.0	0.32
75-09-2	Methylene Chloride	4.7		1.0	0.44
67-64-1	Acetone	7.3	J	10	3.0
75-15-0	Carbon disulfide	ND		1.0	0.19
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
67-66-3	Chloroform	ND		1.0	0.34
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
56-23-5	Carbon tetrachloride	ND		1.0	0.27
75-27-4	Bromodichloromethane	ND		1.0	0.39
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-01-6	Trichloroethene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.32
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
71-43-2	Benzene	ND		1.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-25-2	Bromoform	ND		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
591-78-6	2-Hexanone	ND		5.0	1.2
127-18-4	Tetrachloroethene	ND		1.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
108-88-3	Toluene	ND		1.0	0.51
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
100-42-5	Styrene	ND		1.0	0.73
1330-20-7	Xylenes, Total	ND		2.0	0.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Client Sample ID: FB-06192018 Lab Sample ID: 480-137801-2

Matrix: Water Lab File ID: S2888.D

Analysis Method: 8260C Date Collected: 06/19/2018 10:10

Sample wt/vol: 5(mL) Date Analyzed: 06/27/2018 23:32

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 421976 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	99		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D
Lims ID: 480-137801-A-2
Client ID: FB-06192018
Sample Type: Client
Inject. Date: 27-Jun-2018 23:32:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-A-2
Misc. Info.: 480-0072684-012
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 12:28:38 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 12:28:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	167593	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	333088	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	98	298810	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	198120	24.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	137921	26.3	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	819728	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	250052	25.1	
10 Dichlorodifluoromethane	85		1.288				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.878				ND	
15 Chloroethane	64		1.975				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
22 1,1-Dichloroethene	96		2.730				ND	
23 Acetone	43	2.851	2.851	0.000	81	23696	7.35	M
26 Carbon disulfide	76		2.924				ND	
27 Methyl acetate	43		3.149				ND	
30 Methylene Chloride	84	3.259	3.259	0.000	91	59195	4.69	M
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.472				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96		4.457				ND	
43 2-Butanone (MEK)	43		4.500				ND	
50 Chloroform	83	4.774	4.774	0.000	17	4877	0.3132	
52 Cyclohexane	56		4.883				ND	
51 1,1,1-Trichloroethane	97		4.883				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78	5.242	5.242	0.000	1	1807	0.0508	7a
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.960				ND	
65 1,2-Dichloropropane	63		6.100				ND	
68 Dichlorobromomethane	83		6.392				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952				ND	
74 Toluene	92	7.086	7.092	-0.006	38	3087	0.1394	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.621				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91	8.631	8.631	0.000	1	4507	0.1129	a
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	7618	0.4693	
91 o-Xylene	106	9.172	9.178	-0.006	29	3544	0.2300	
92 Styrene	104		9.215				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1				0		0.6993	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- a - User Assigned ID

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

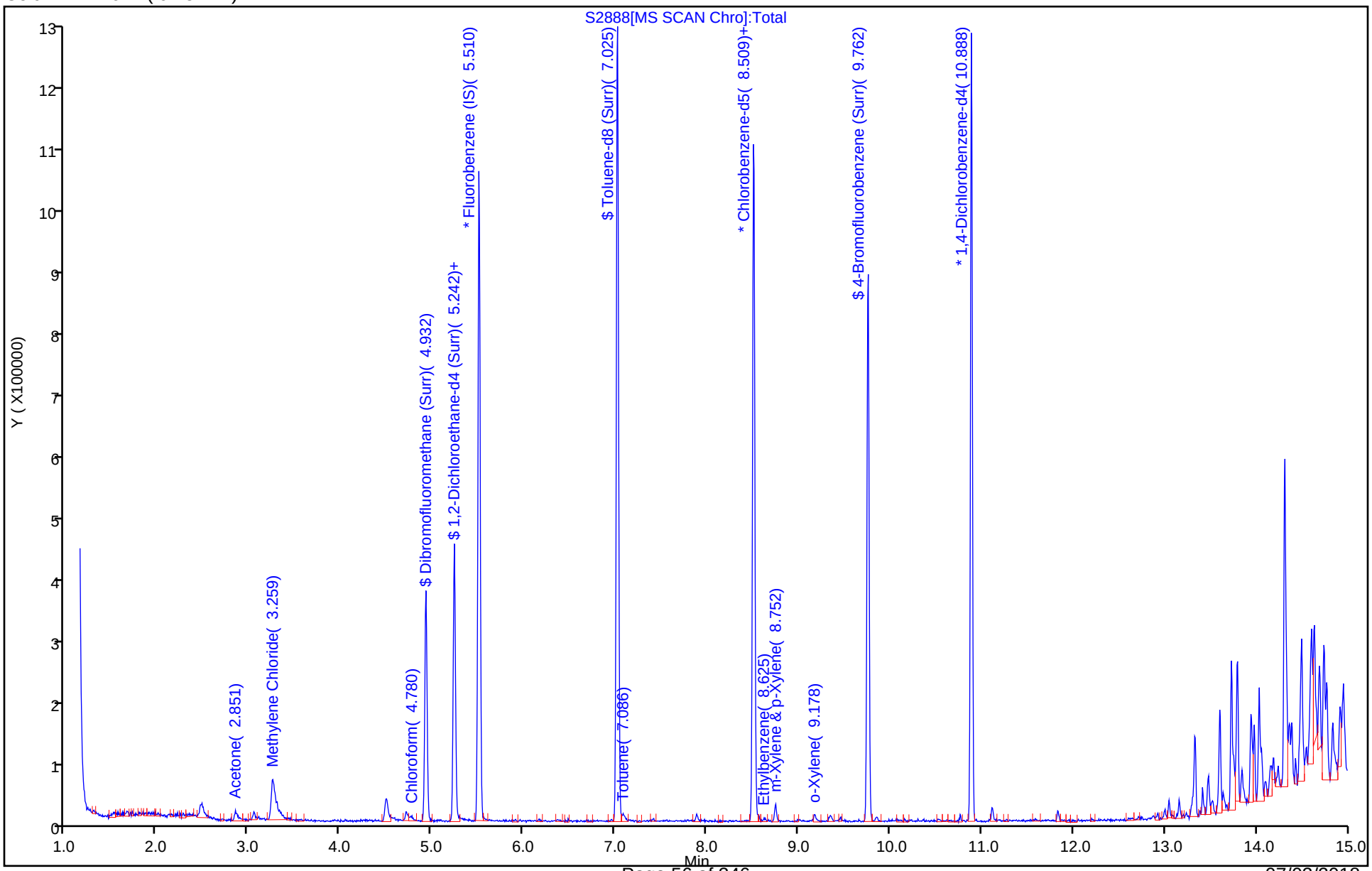
Report Date: 28-Jun-2018 12:28:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D

Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2	Worklist Smp#:	12
Client ID:	FB-06192018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



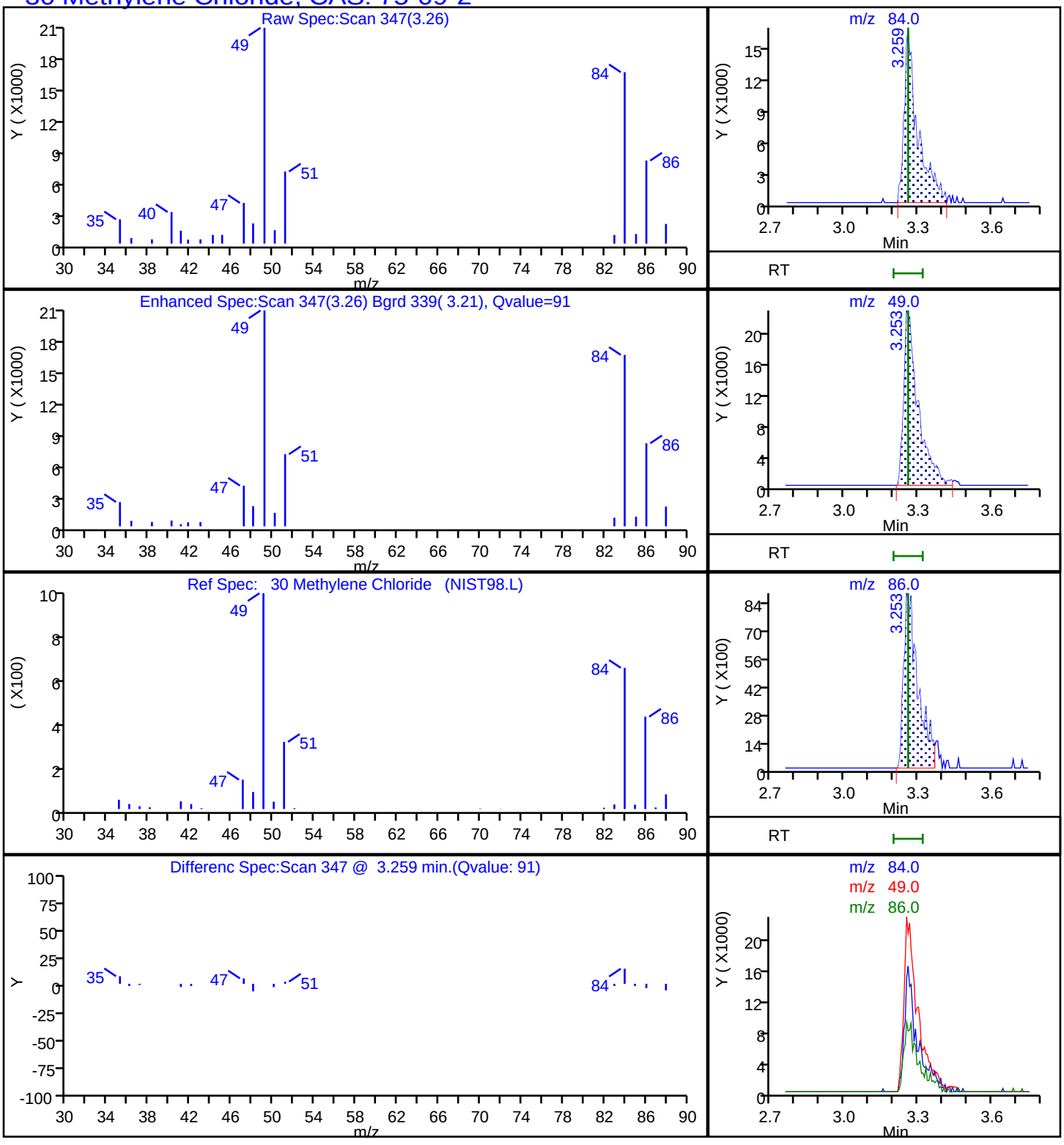
Report Date: 28-Jun-2018 12:28:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D

Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2		
Client ID:	FB-06192018				
Operator ID:	kn	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

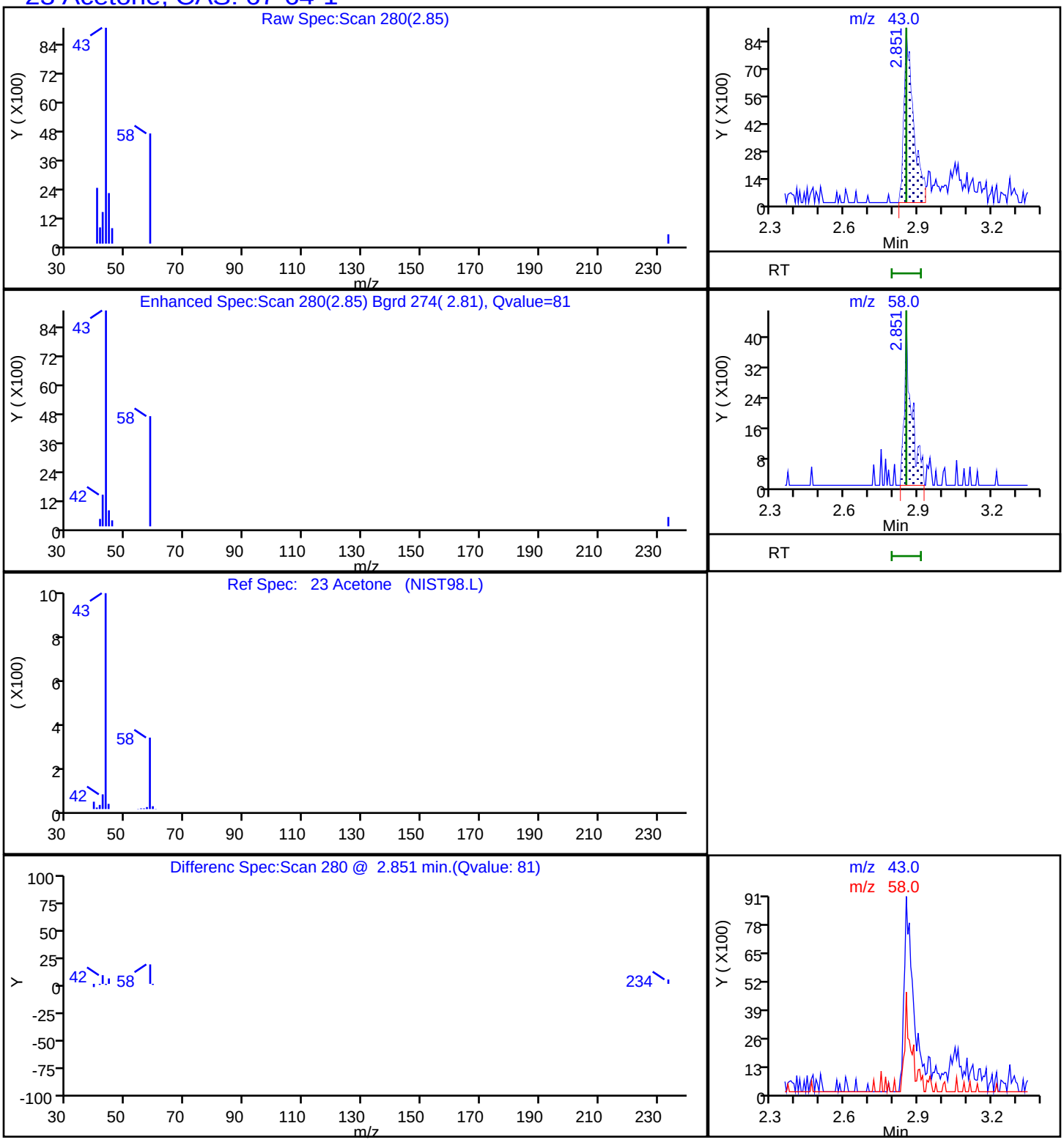


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D

Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2
Client ID:	FB-06192018		
Operator ID:	kn	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

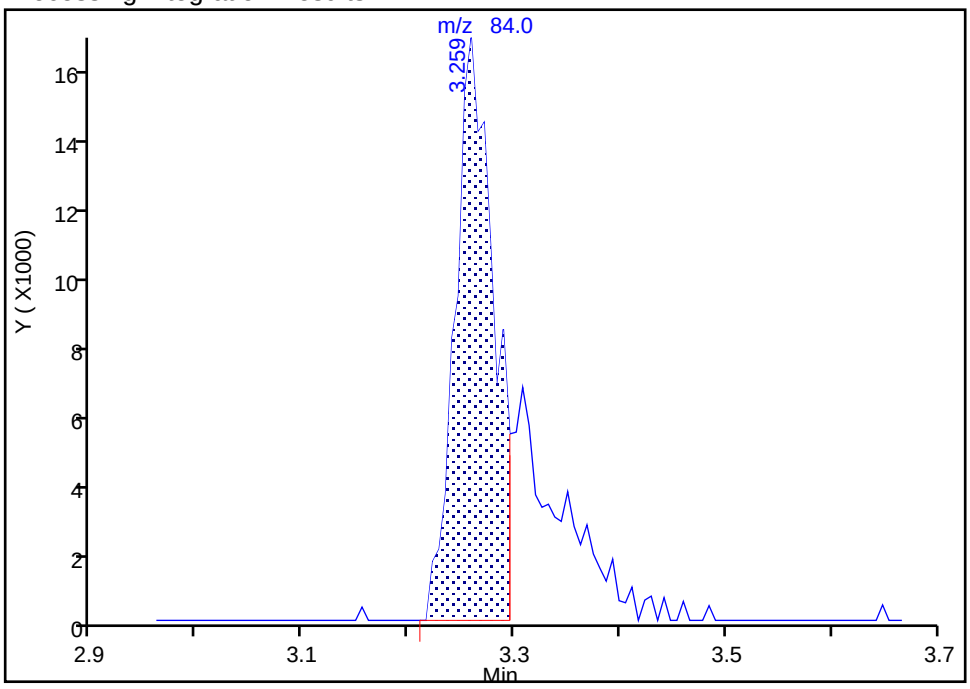
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D				
Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2		
Client ID:	FB-06192018				
Operator ID:	kn	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

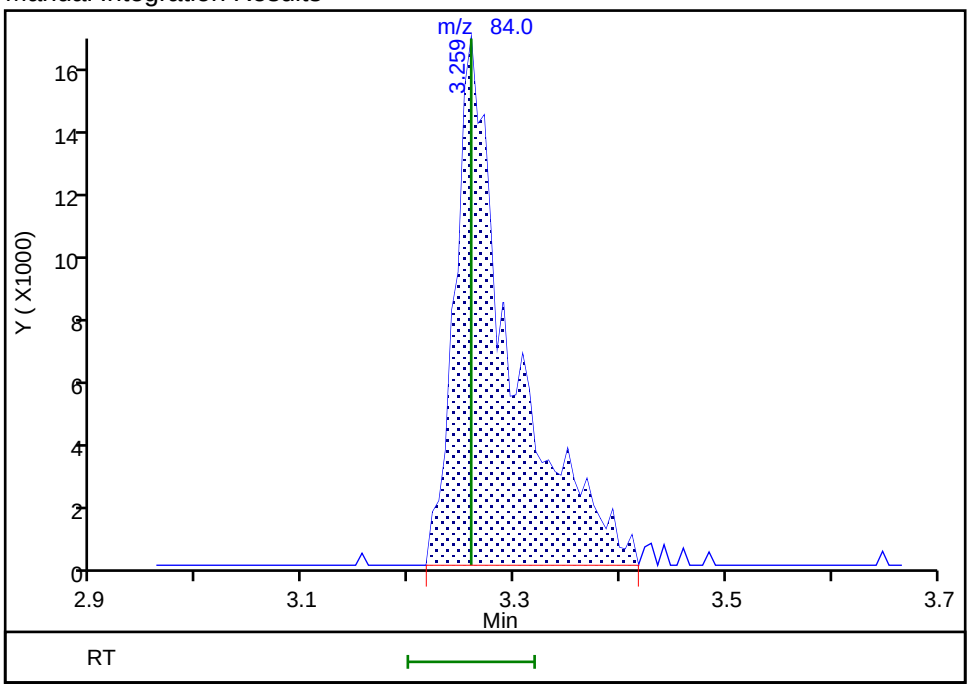
Processing Integration Results

RT: 3.26
Area: 40580
Amount: 2.648038
Amount Units: ug/L



Manual Integration Results

RT: 3.26
Area: 59195
Amount: 4.687158
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:27:40

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

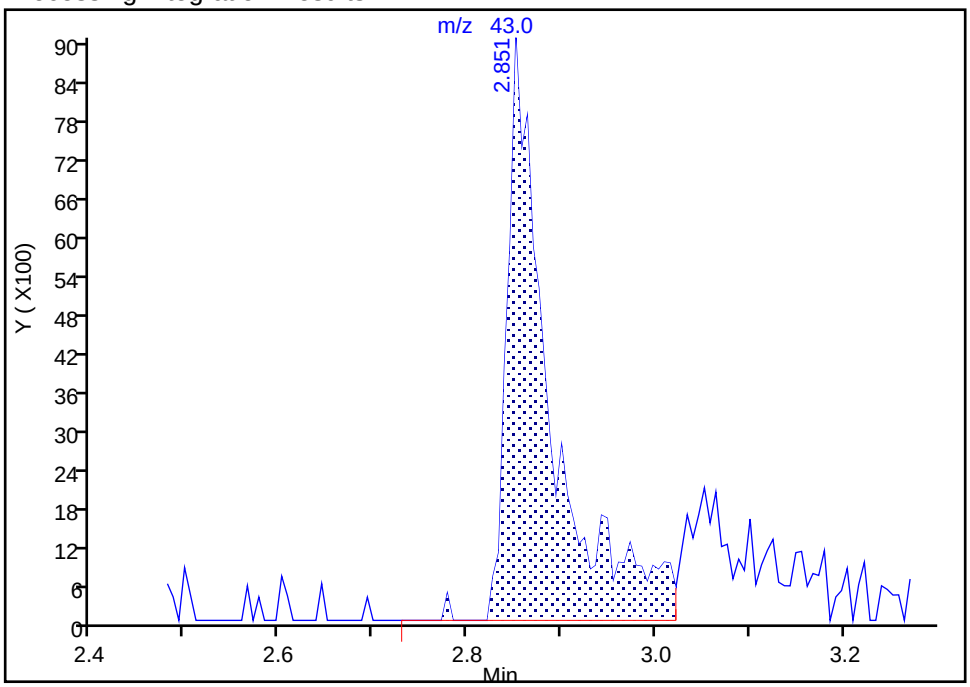
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D				
Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2		
Client ID:	FB-06192018				
Operator ID:	kn	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

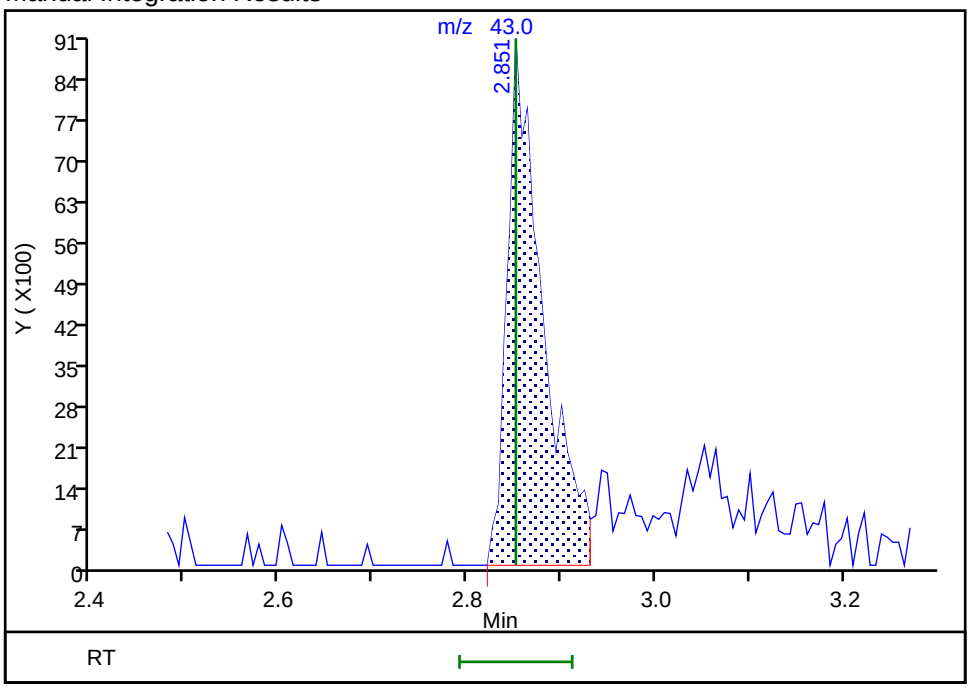
Processing Integration Results

RT: 2.85
Area: 28924
Amount: 8.970356
Amount Units: ug/L



Manual Integration Results

RT: 2.85
Area: 23696
Amount: 7.348969
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:27:22

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

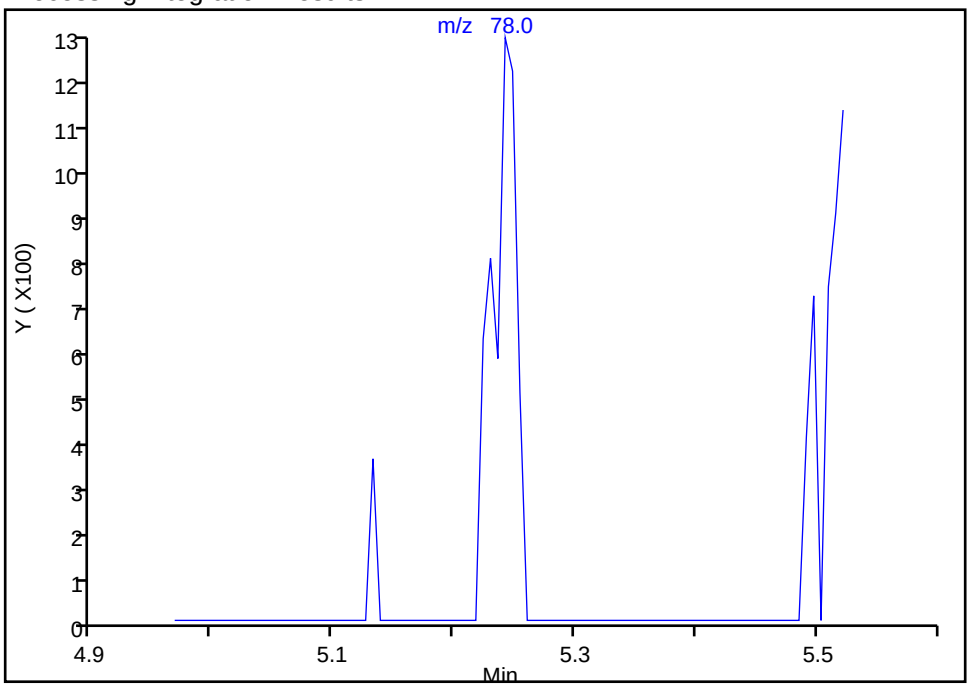
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D				
Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2		
Client ID:	FB-06192018				
Operator ID:	kn	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2

Signal: 1

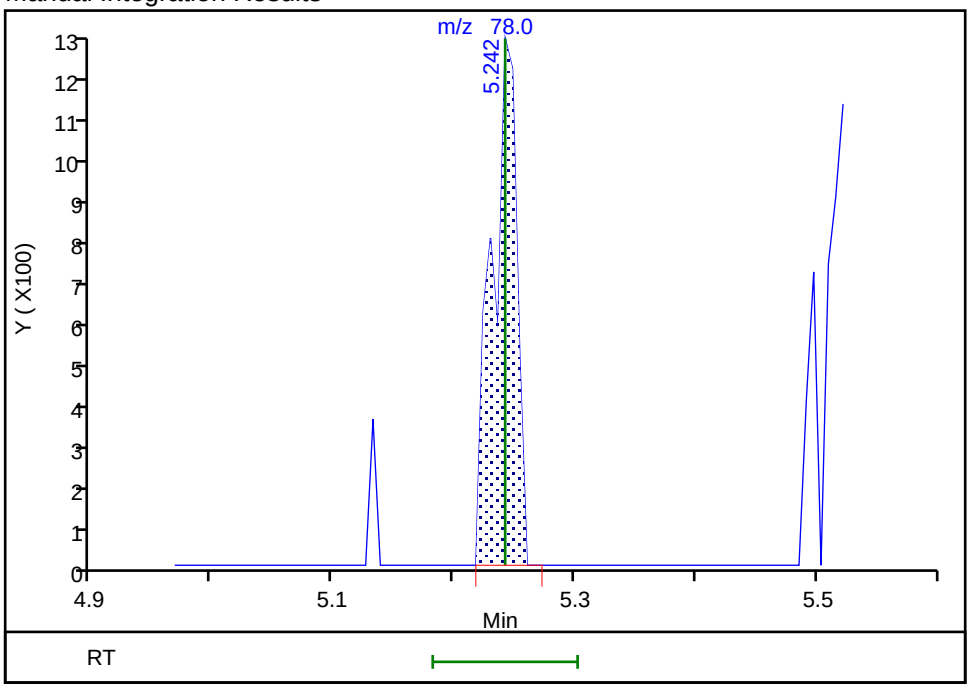
Not Detected
Expected RT: 5.24

Processing Integration Results



Manual Integration Results

RT: 5.24
Area: 1807
Amount: 0.050824
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:27:59
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

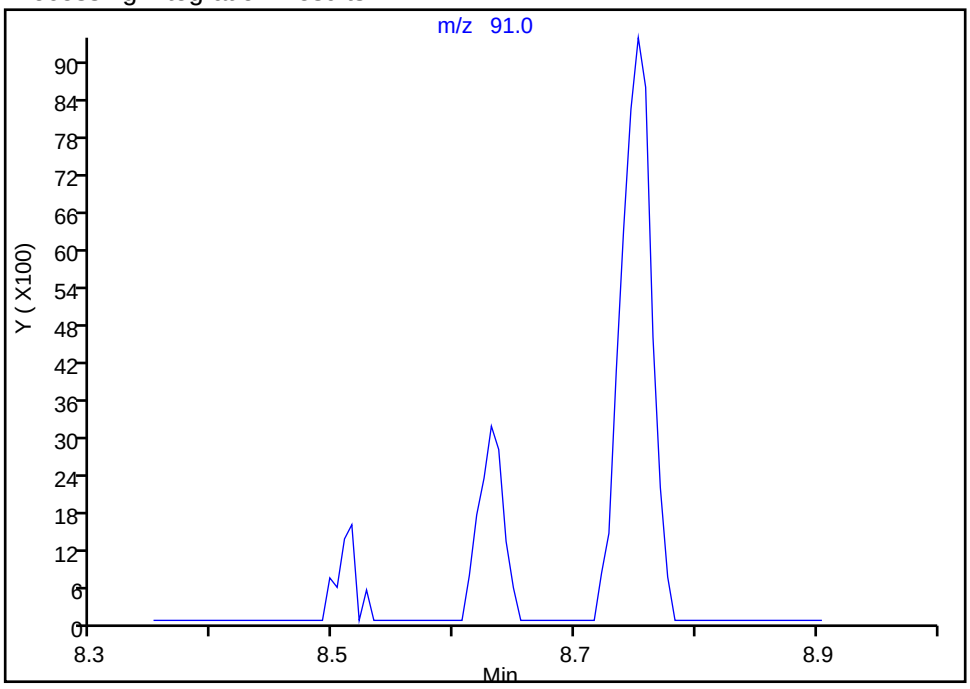
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2888.D				
Injection Date:	27-Jun-2018 23:32:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-2	Lab Sample ID:	480-137801-2		
Client ID:	FB-06192018				
Operator ID:	kn	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

88 Ethylbenzene, CAS: 100-41-4

Signal: 1

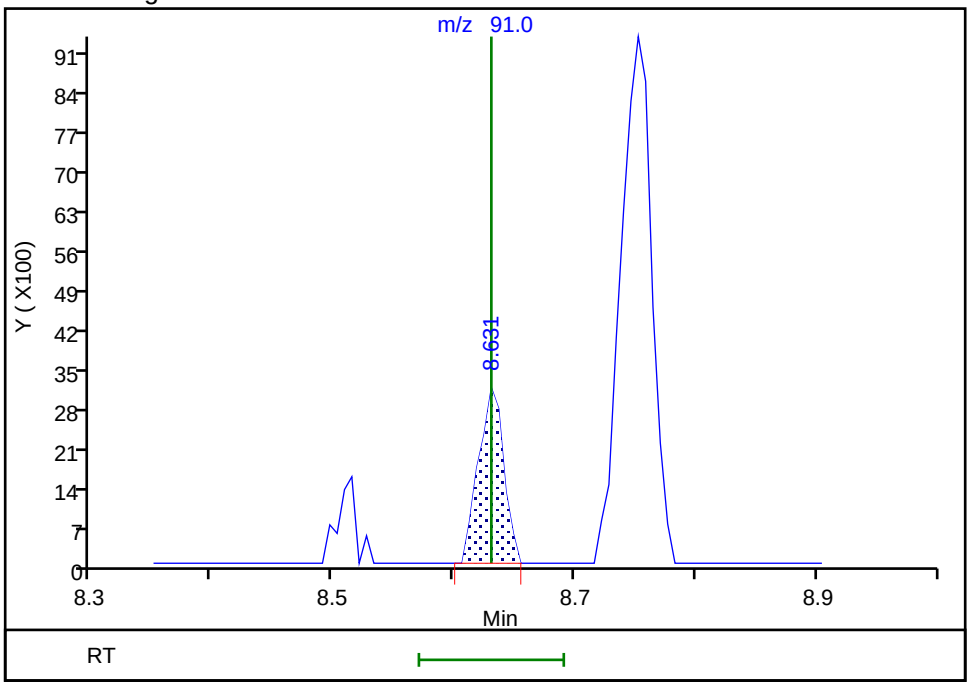
Not Detected
Expected RT: 8.63

Processing Integration Results



Manual Integration Results

RT: 8.63
Area: 4507
Amount: 0.112940
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:28:21
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-11-WG-75-06182018 | Lab Sample ID: 480-137801-3

Matrix: Water | Lab File ID: S2889.D

Analysis Method: 8260C | Date Collected: 06/19/2018 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 23:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.35
74-83-9	Bromomethane	ND		1.0	0.69
75-01-4	Vinyl chloride	ND		1.0	0.90
75-00-3	Chloroethane	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.44
67-64-1	Acetone	9.0	J	10	3.0
75-15-0	Carbon disulfide	ND		1.0	0.19
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
67-66-3	Chloroform	0.40	J	1.0	0.34
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
56-23-5	Carbon tetrachloride	ND		1.0	0.27
75-27-4	Bromodichloromethane	ND		1.0	0.39
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-01-6	Trichloroethene	13		1.0	0.46
124-48-1	Dibromochloromethane	0.60	J	1.0	0.32
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
71-43-2	Benzene	ND		1.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-25-2	Bromoform	0.81	J	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
591-78-6	2-Hexanone	ND		5.0	1.2
127-18-4	Tetrachloroethene	ND		1.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
108-88-3	Toluene	ND		1.0	0.51
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
100-42-5	Styrene	ND		1.0	0.73
1330-20-7	Xylenes, Total	ND		2.0	0.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-11-WG-75-06182018 | Lab Sample ID: 480-137801-3

Matrix: Water | Lab File ID: S2889.D

Analysis Method: 8260C | Date Collected: 06/19/2018 12:55

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 23:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
460-00-4	4-Bromofluorobenzene (Surr)	95		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D
Lims ID: 480-137801-A-3
Client ID: PDI-11-WG-75-06182018
Sample Type: Client
Inject. Date: 27-Jun-2018 23:55:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-A-3
Misc. Info.: 480-0072684-013
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 12:31:42 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 12:31:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.516	5.510	0.006	98	166391	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	340993	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	97	302864	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	66	203045	25.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	135607	26.0	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	818254	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	242264	23.8	
10 Dichlorodifluoromethane	85		1.288				ND	
12 Chloromethane	50	1.476	1.476	0.006	20	3169	0.2490	M
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.878				ND	
15 Chloroethane	64		1.975				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
22 1,1-Dichloroethene	96		2.730				ND	
23 Acetone	43	2.857	2.851	0.006	95	28688	8.96	
26 Carbon disulfide	76		2.924				ND	
27 Methyl acetate	43		3.149				ND	
30 Methylene Chloride	84		3.259				ND	
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.472				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96	4.463	4.463	0.006	40	3146	0.3255	a
43 2-Butanone (MEK)	43		4.500				ND	
50 Chloroform	83	4.768	4.774	-0.006	24	6223	0.4025	
52 Cyclohexane	56		4.883				ND	
51 1,1,1-Trichloroethane	97		4.883				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78	5.242	5.242	0.000	1	1411	0.0400	7a
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95	5.850	5.863	-0.001	96	122040	13.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.960				ND	
65 1,2-Dichloropropane	63		6.100				ND	
68 Dichlorobromomethane	83	6.386	6.392	-0.006	9	3304	0.3086	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952				ND	
74 Toluene	92		7.092				ND	Ua
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166	7.621	7.621	0.000	43	3334	0.3483	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129	7.955	7.962	-0.007	1	4674	0.6018	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
92 Styrene	104		9.215				ND	
95 Bromoform	173	9.470	9.464	0.006	9	4020	0.8103	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

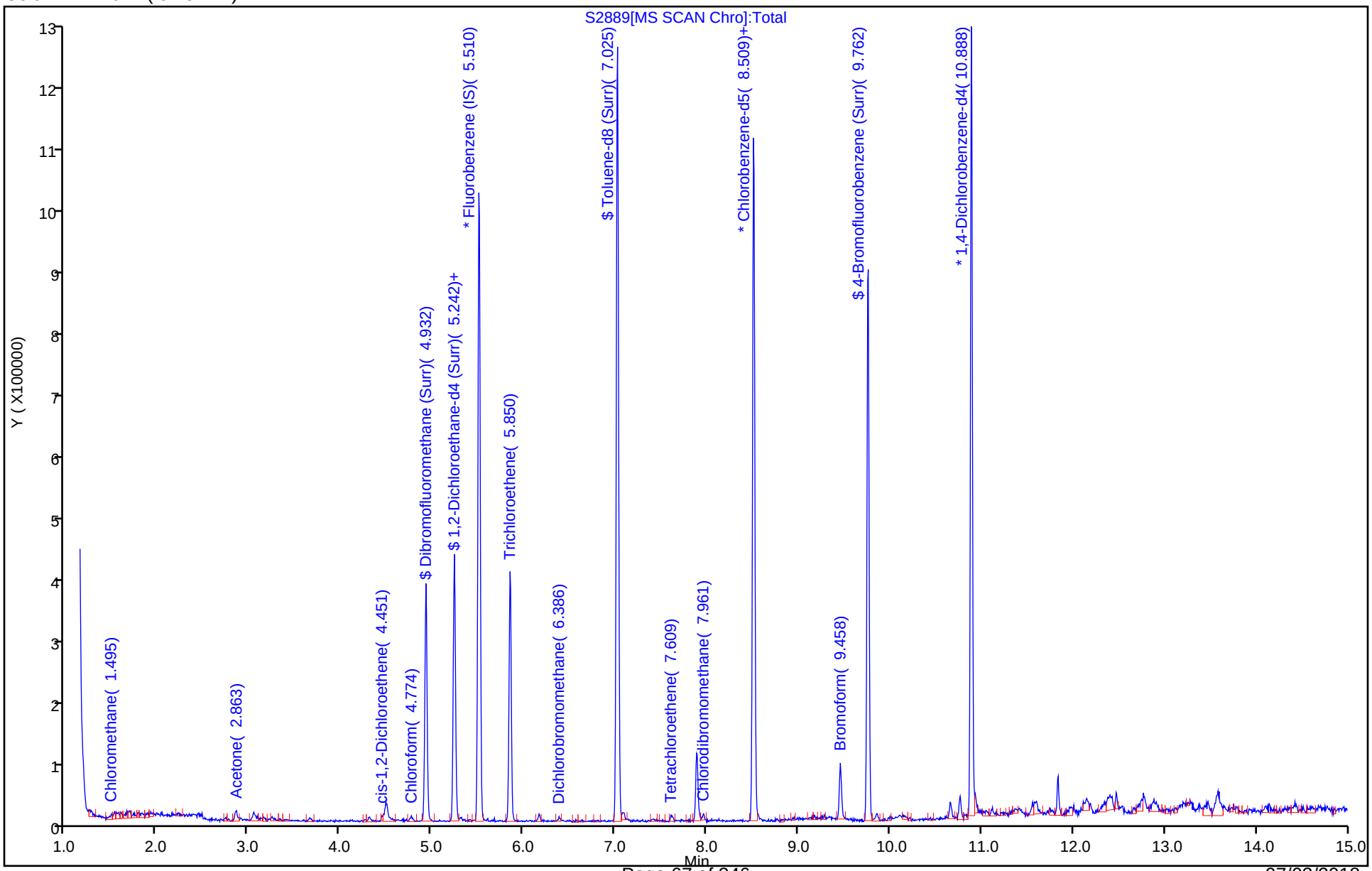
Report Date: 28-Jun-2018 12:31:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D

Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3	Worklist Smp#:	13
Client ID:	PDI-11-WG-75-06182018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

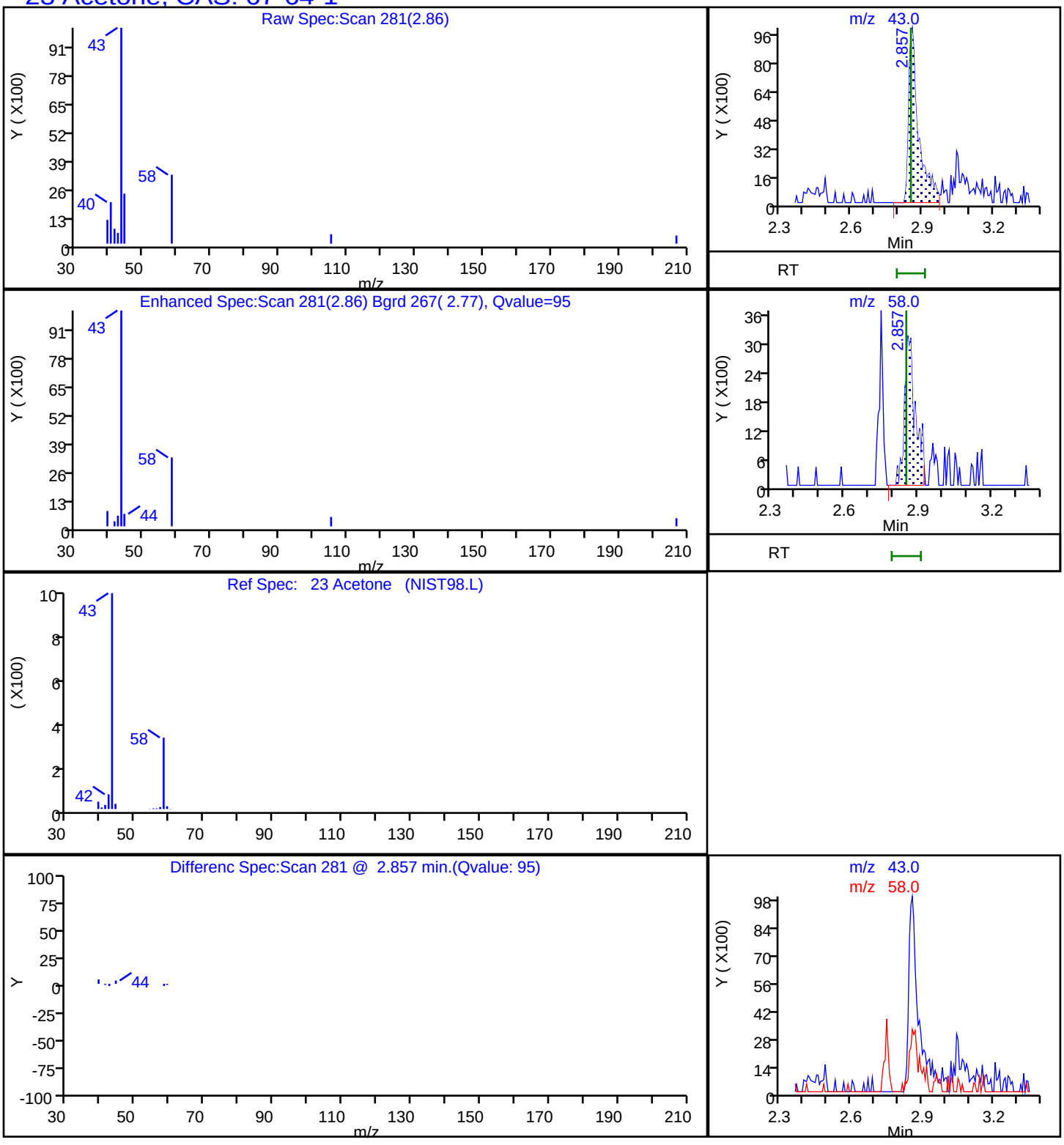


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D

Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



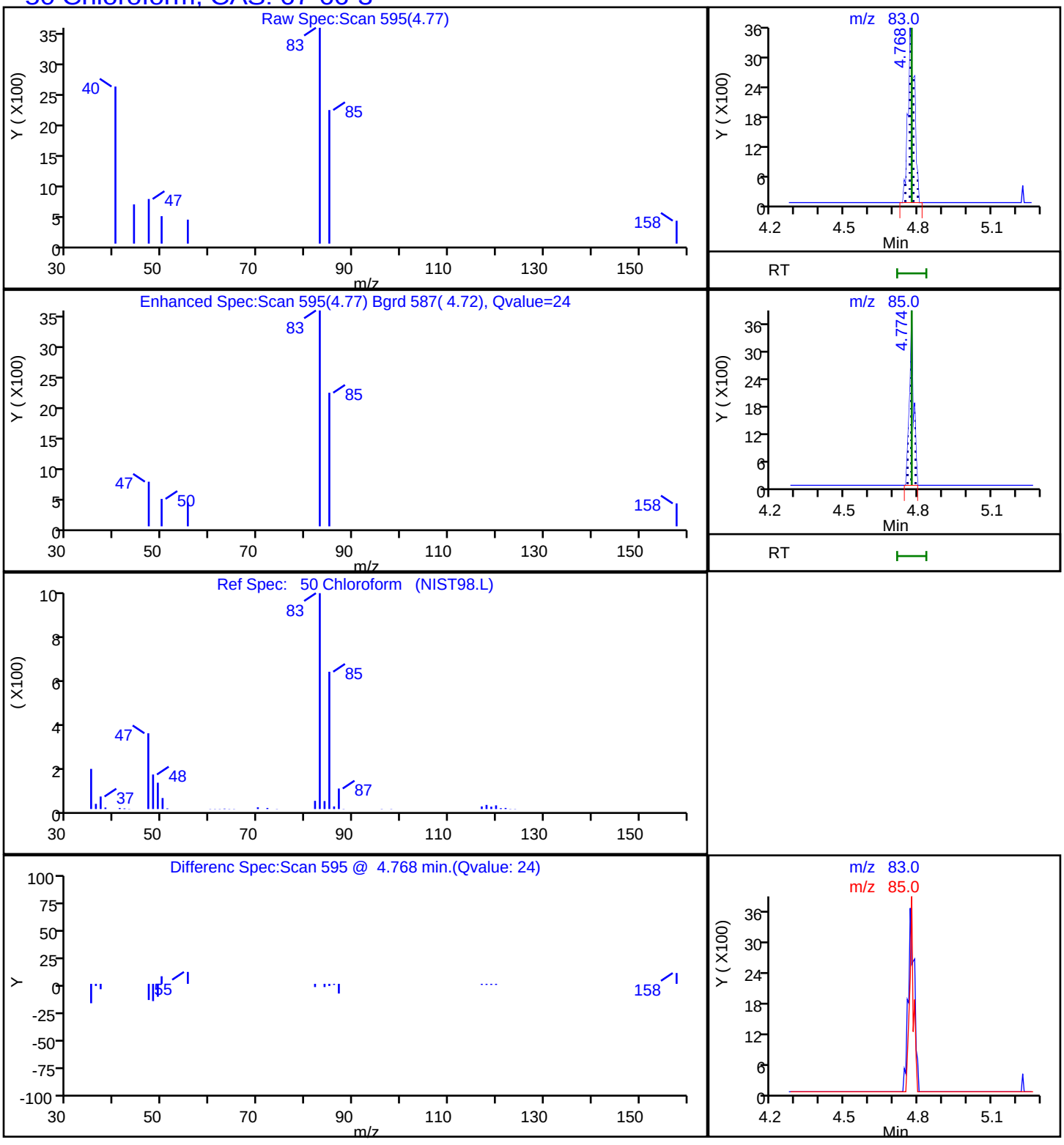
Report Date: 28-Jun-2018 12:31:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D

Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



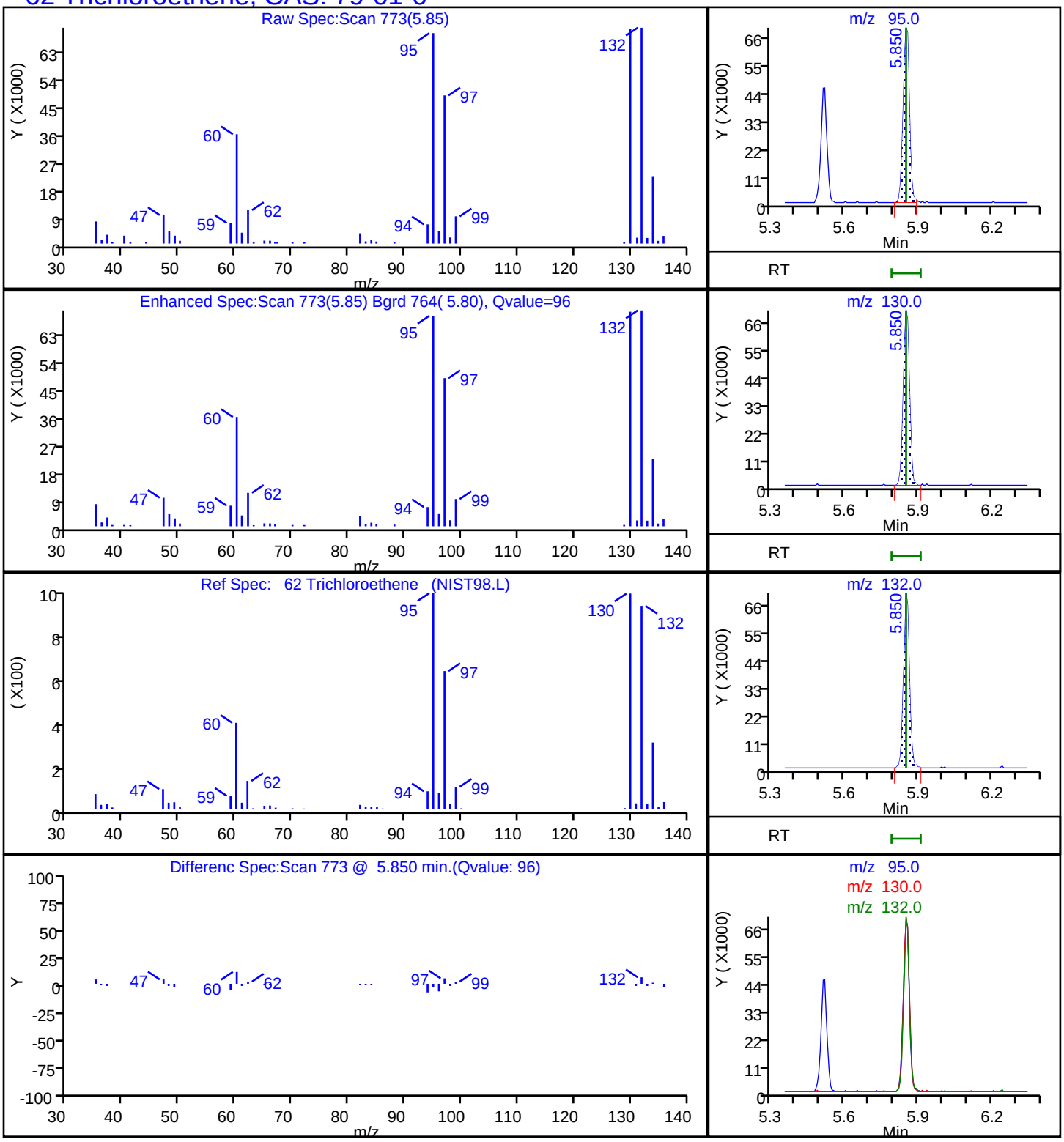
Report Date: 28-Jun-2018 12:31:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D

Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3
Client ID:	PDI-11-WG-75-06182018		
Operator ID:	kn	ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



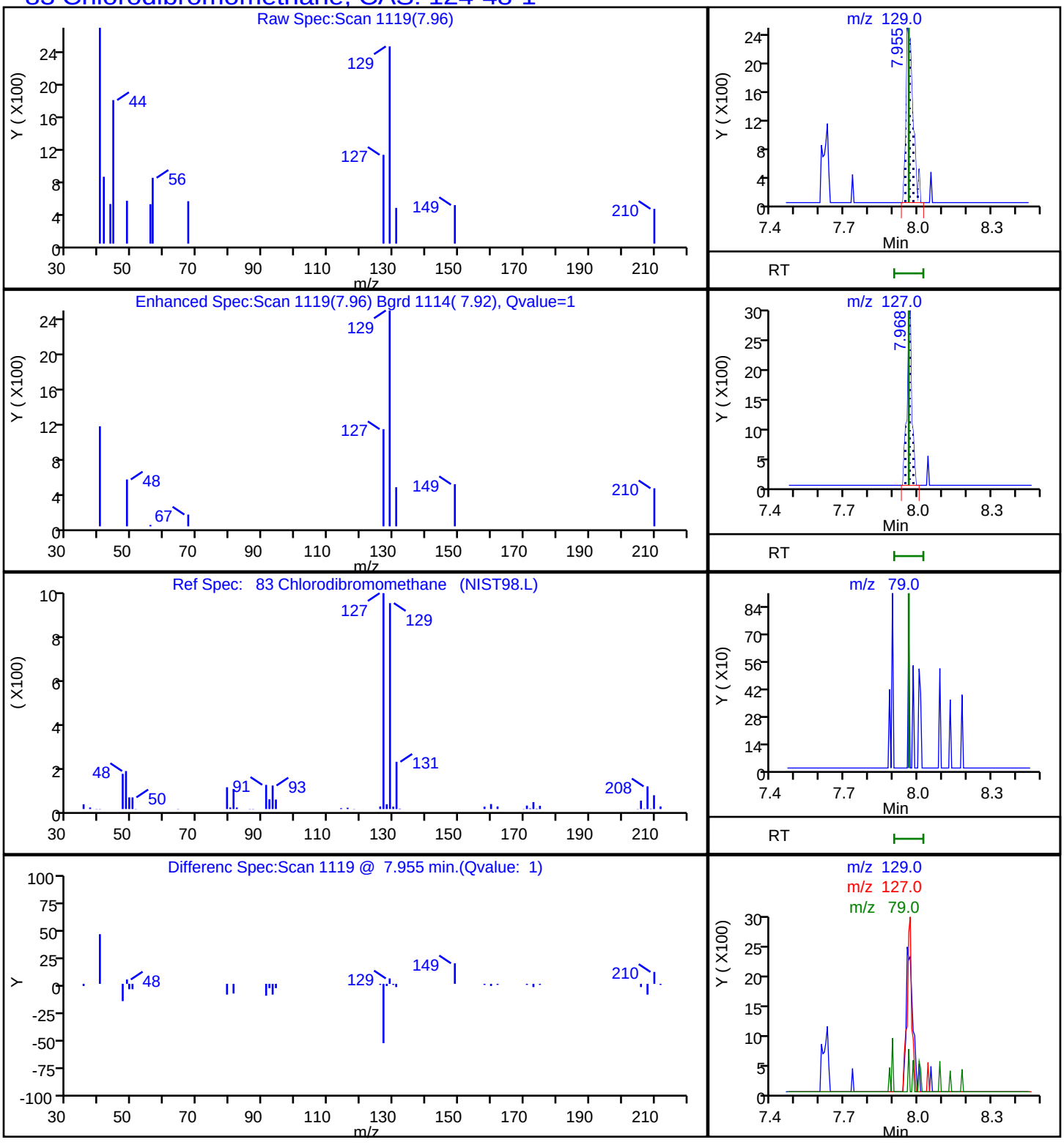
Report Date: 28-Jun-2018 12:31:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D

Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

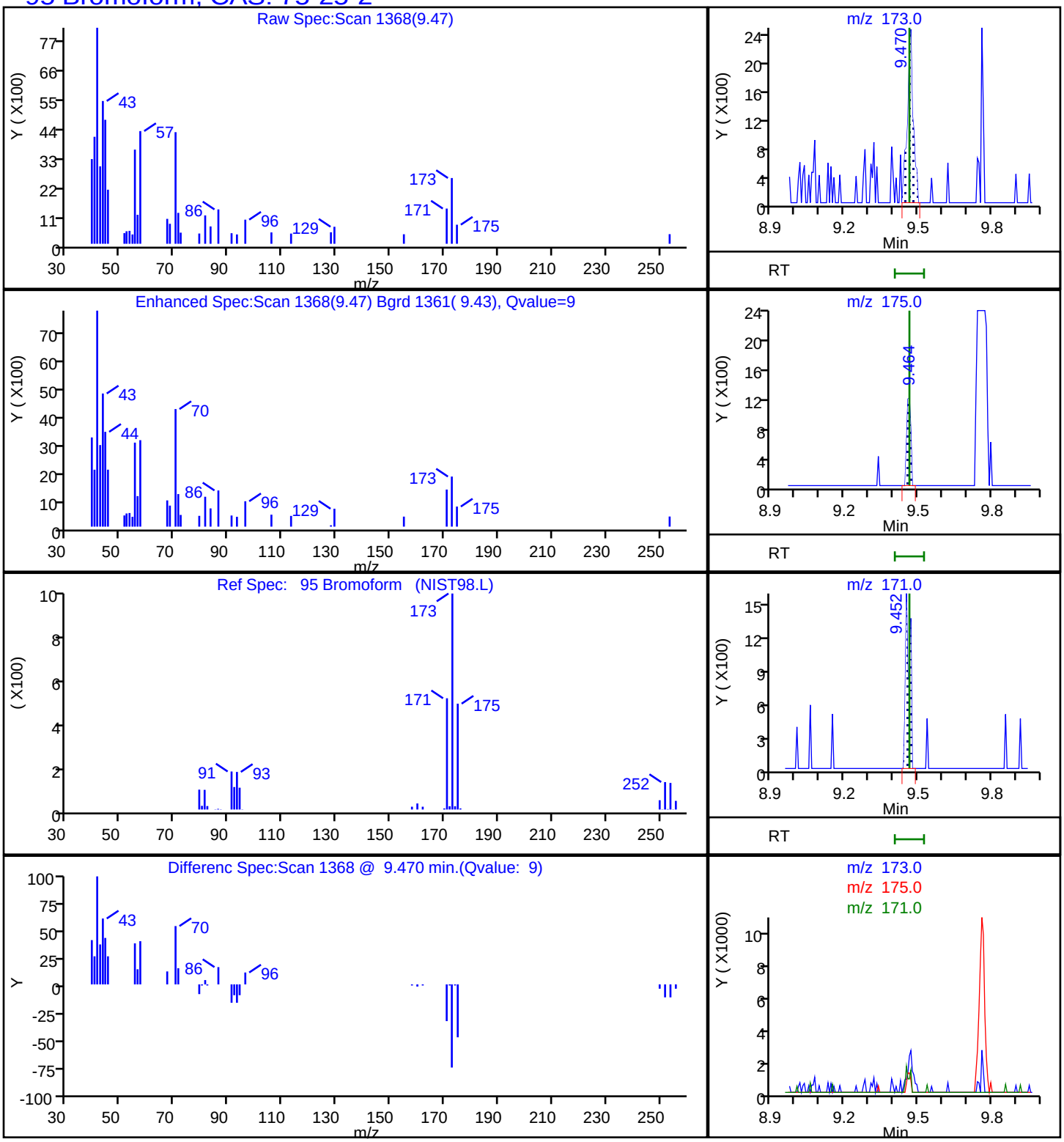
83 Chlorodibromomethane, CAS: 124-48-1



TestAmerica Buffalo

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D				
Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

95 Bromoform, CAS: 75-25-2



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

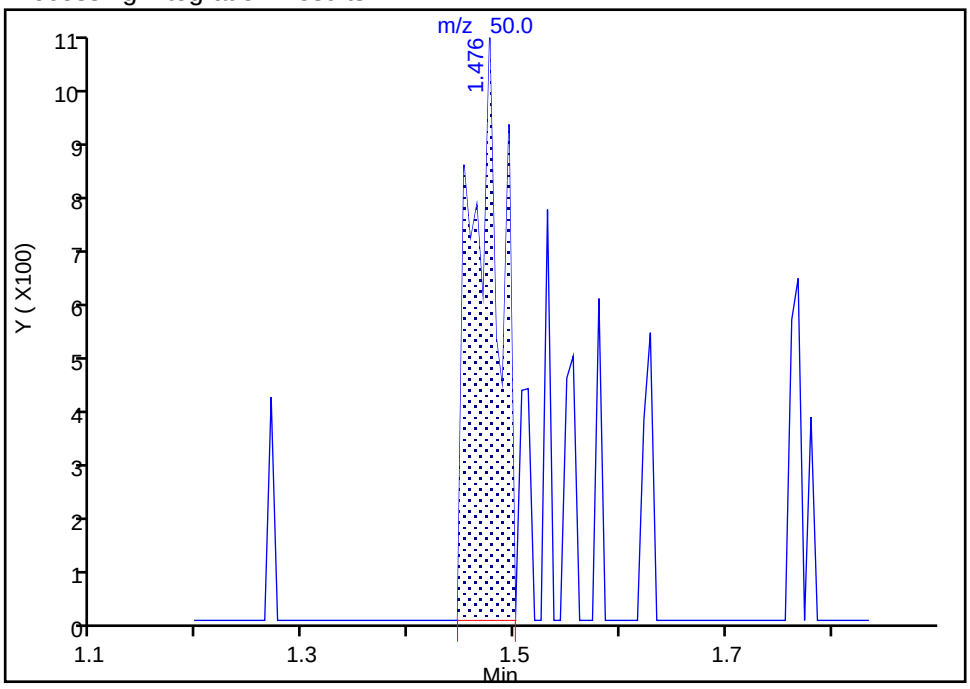
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D				
Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

Signal: 1

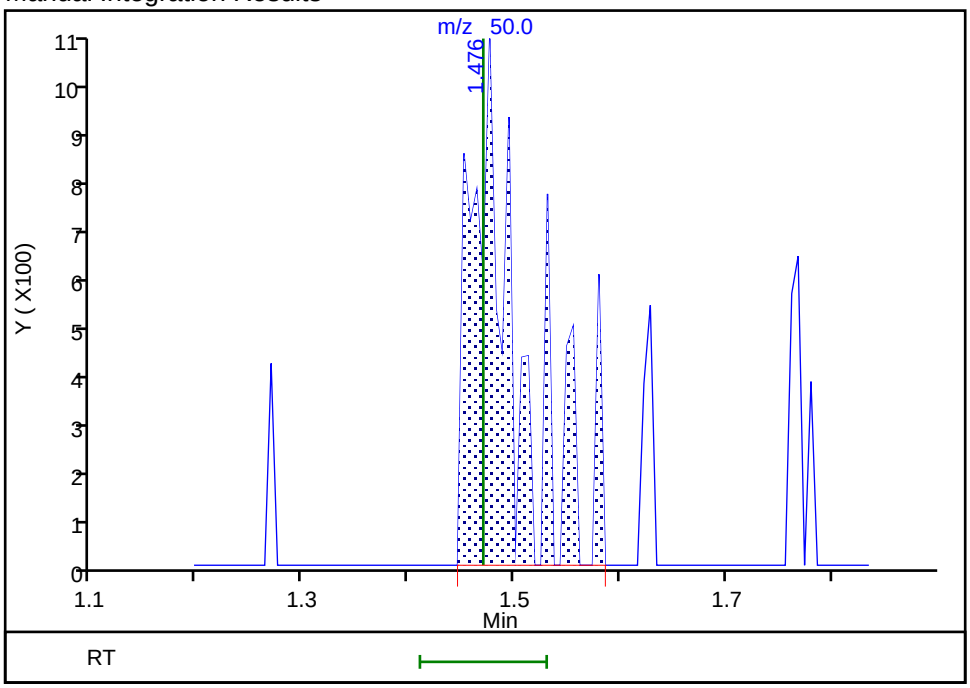
Processing Integration Results

RT: 1.48
Area: 2059
Amount: 0.161755
Amount Units: ug/L



Manual Integration Results

RT: 1.48
Area: 3169
Amount: 0.248956
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:29:04

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

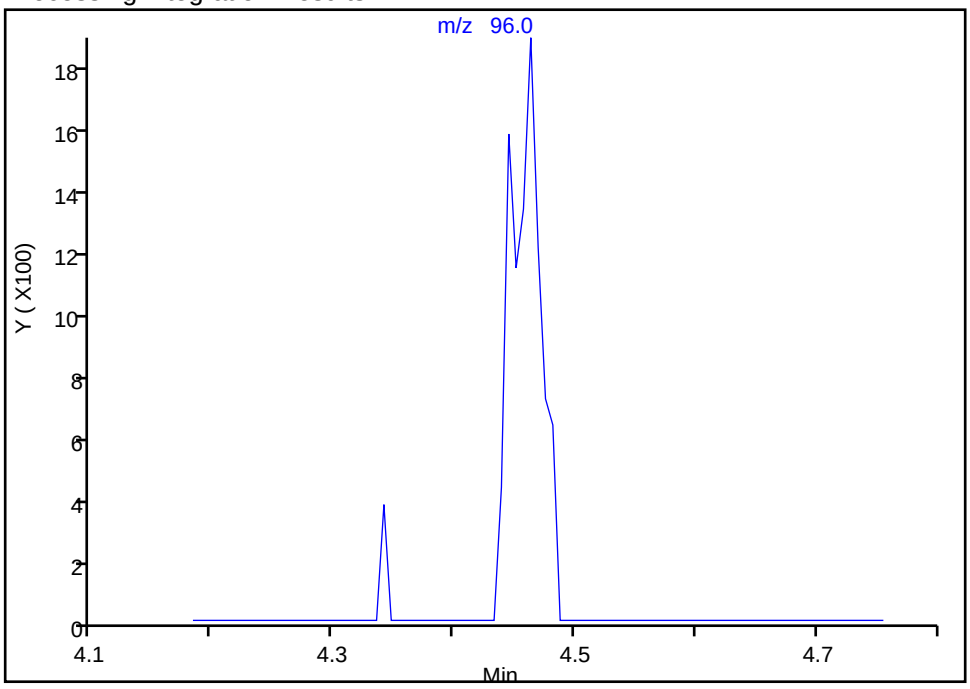
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D				
Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

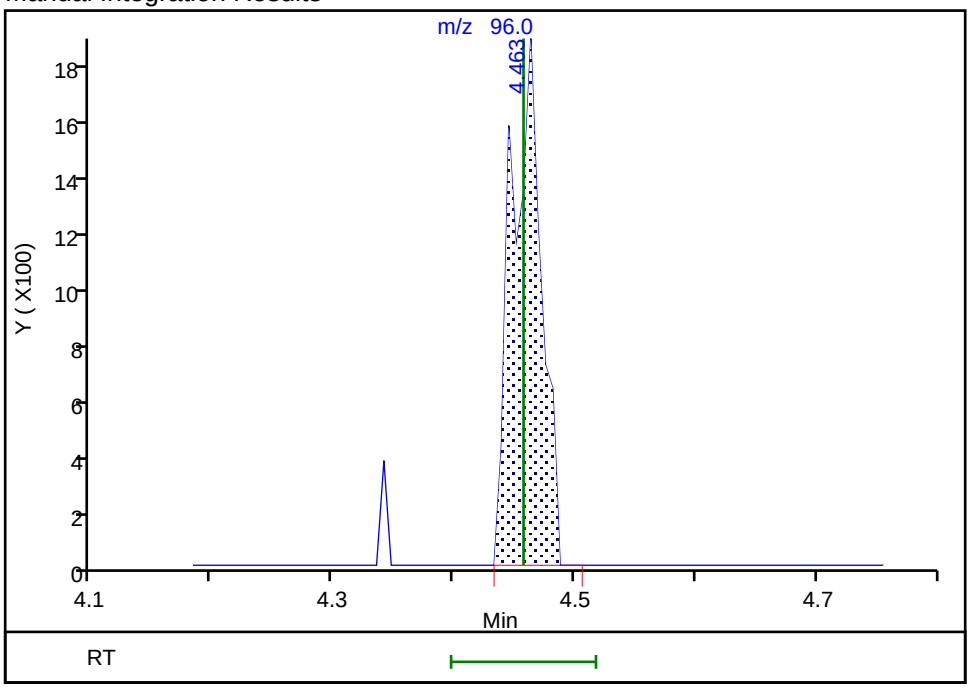
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 3146
Amount: 0.325477
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:29:28
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

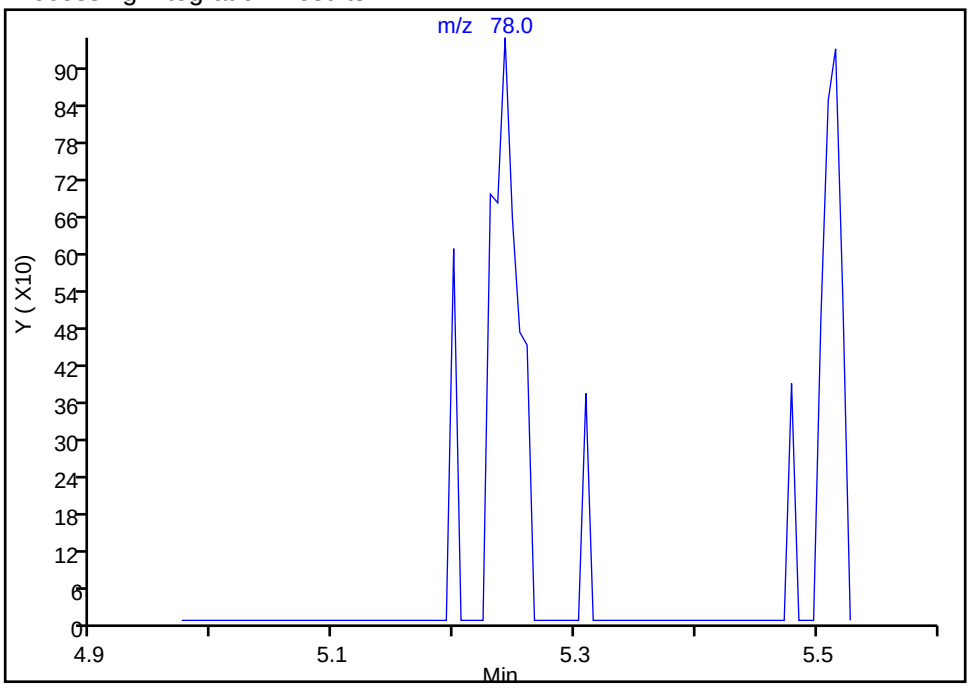
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2889.D				
Injection Date:	27-Jun-2018 23:55:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-3	Lab Sample ID:	480-137801-3		
Client ID:	PDI-11-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2

Signal: 1

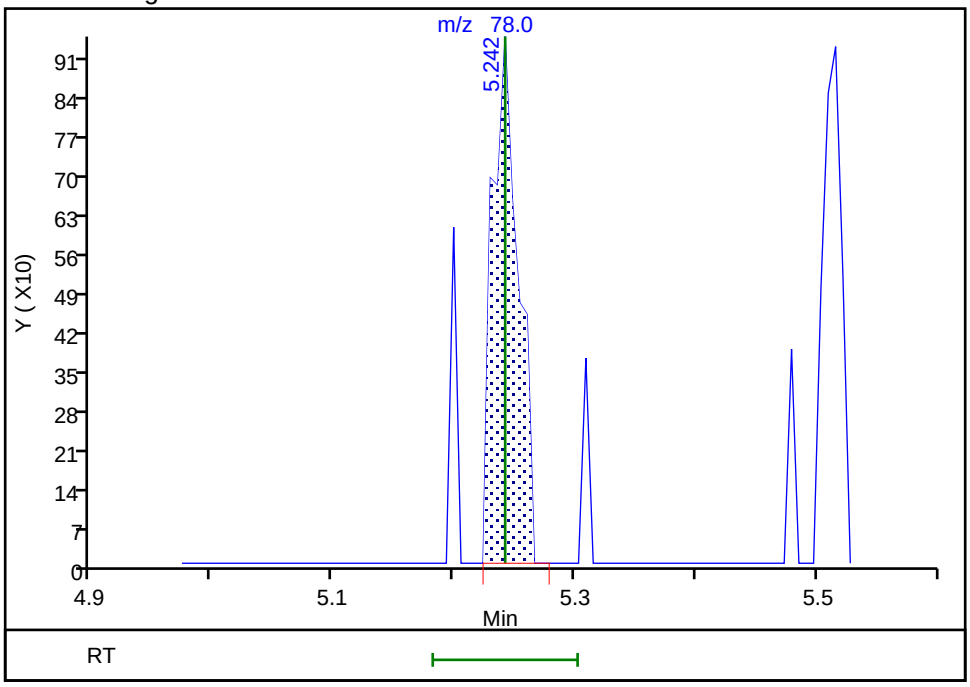
Not Detected
Expected RT: 5.24

Processing Integration Results



Manual Integration Results

RT: 5.24
Area: 1411
Amount: 0.039973
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:29:43
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-111-WG-75-06182018 | Lab Sample ID: 480-137801-4

Matrix: Water | Lab File ID: S2890.D

Analysis Method: 8260C | Date Collected: 06/19/2018 13:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/28/2018 00:18

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.35
74-83-9	Bromomethane	ND		1.0	0.69
75-01-4	Vinyl chloride	ND		1.0	0.90
75-00-3	Chloroethane	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.44
67-64-1	Acetone	5.8	J	10	3.0
75-15-0	Carbon disulfide	ND		1.0	0.19
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
67-66-3	Chloroform	0.42	J	1.0	0.34
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
56-23-5	Carbon tetrachloride	ND		1.0	0.27
75-27-4	Bromodichloromethane	ND		1.0	0.39
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-01-6	Trichloroethene	13		1.0	0.46
124-48-1	Dibromochloromethane	0.64	J	1.0	0.32
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
71-43-2	Benzene	ND		1.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-25-2	Bromoform	0.63	J	1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
591-78-6	2-Hexanone	ND		5.0	1.2
127-18-4	Tetrachloroethene	ND		1.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
108-88-3	Toluene	ND		1.0	0.51
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
100-42-5	Styrene	ND		1.0	0.73
1330-20-7	Xylenes, Total	ND		2.0	0.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-111-WG-75-06182018 Lab Sample ID: 480-137801-4

Matrix: Water Lab File ID: S2890.D

Analysis Method: 8260C Date Collected: 06/19/2018 13:00

Sample wt/vol: 5(mL) Date Analyzed: 06/28/2018 00:18

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 421976 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D
Lims ID: 480-137801-A-4
Client ID: PDI-111-WG-75-06182018
Sample Type: Client
Inject. Date: 28-Jun-2018 00:18:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-A-4
Misc. Info.: 480-0072684-014
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 12:34:15 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 12:34:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	166280	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	335058	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	98	301072	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	59	201041	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	135573	26.0	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	93	825057	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	246579	24.6	
10 Dichlorodifluoromethane	85		1.288				ND	
12 Chloromethane	50		1.470				ND	MU
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.878				ND	
15 Chloroethane	64		1.975				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
22 1,1-Dichloroethene	96		2.730				ND	
23 Acetone	43	2.851	2.851	0.000	81	18688	5.84	M
26 Carbon disulfide	76		2.924				ND	
27 Methyl acetate	43		3.149				ND	
30 Methylene Chloride	84		3.259				ND	
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.472				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	30	3172	0.3284	a
43 2-Butanone (MEK)	43		4.500				ND	
50 Chloroform	83	4.768	4.774	-0.006	34	6502	0.4209	
52 Cyclohexane	56		4.883				ND	
51 1,1,1-Trichloroethane	97		4.883				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78	5.248	5.248	0.006	1	1222	0.0346	7Ma
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95	5.851	5.863	-0.001	93	119735	13.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.960				ND	
65 1,2-Dichloropropane	63		6.100				ND	
68 Dichlorobromomethane	83	6.380	6.392	-0.012	14	3473	0.3246	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952				ND	
74 Toluene	92	7.092	7.098	0.000	51	4678	0.2100	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166	7.627	7.621	0.006	30	3038	0.3230	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129	7.955	7.962	-0.007	0	4900	0.6421	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
92 Styrene	104		9.215				ND	
95 Bromoform	173	9.458	9.464	-0.006	1	3071	0.6300	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags
- 7 - Failed Limit of Detection

Review Flags
- M - Manually Integrated
- U - Marked Undetected
- a - User Assigned ID

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

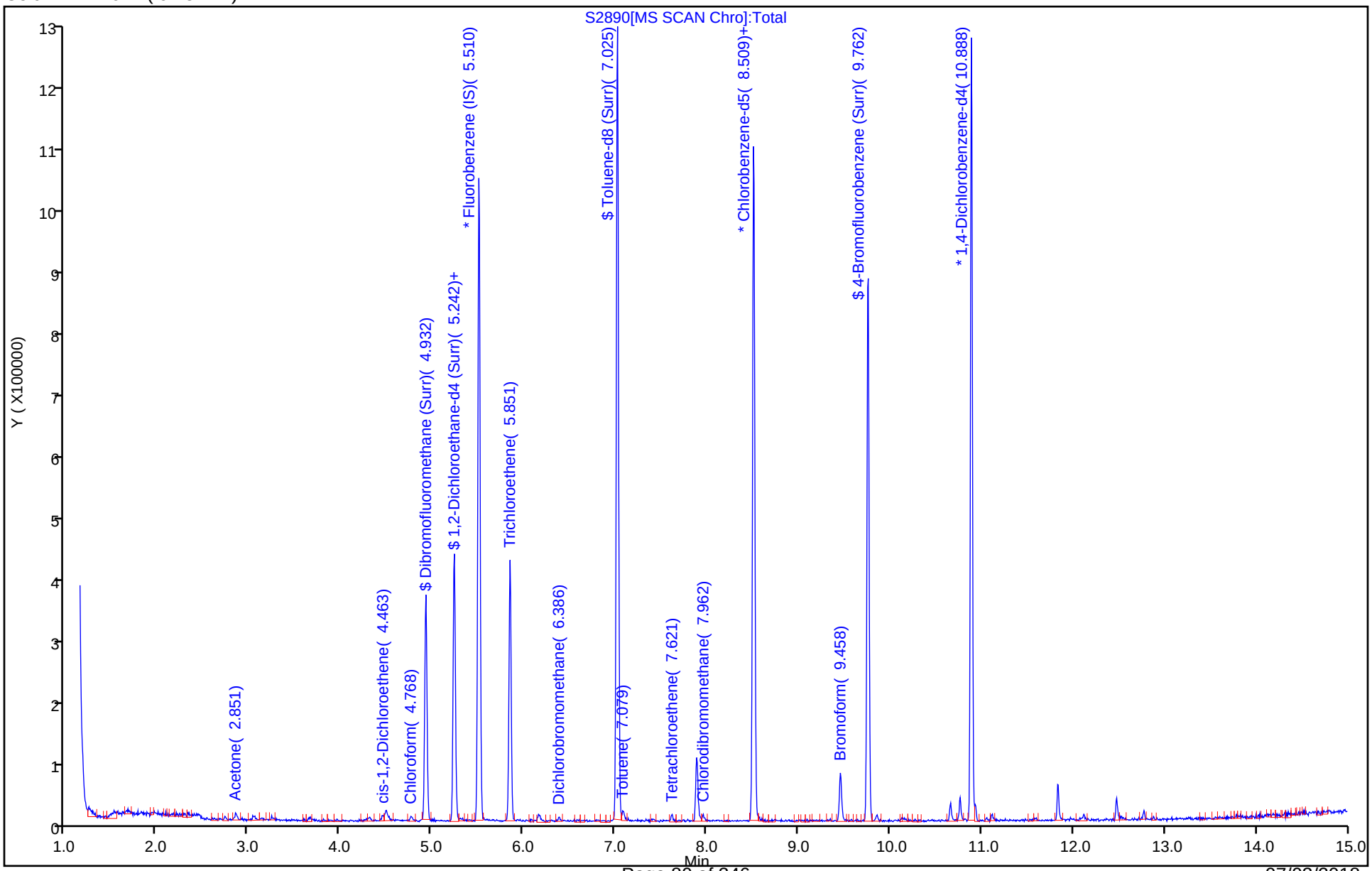
Report Date: 28-Jun-2018 12:34:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D

Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4	Worklist Smp#:	14
Client ID:	PDI-111-WG-75-06182018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

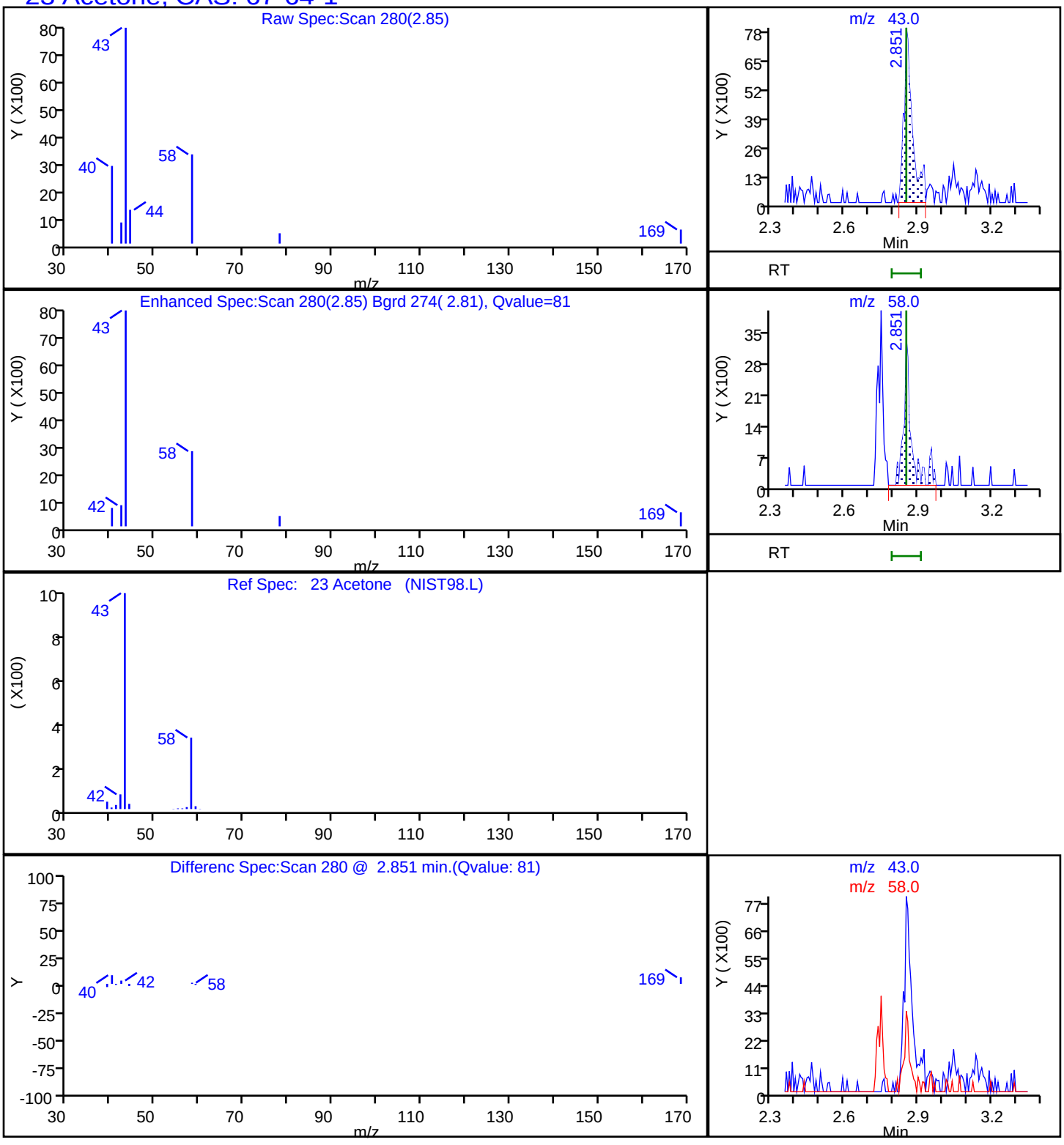
Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D
Injection Date: 28-Jun-2018 00:18:30 Instrument ID: HP5973S
Lims ID: 480-137801-A-4 Lab Sample ID: 480-137801-4
Client ID: PDI-111-WG-75-06182018
Operator ID: kn ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



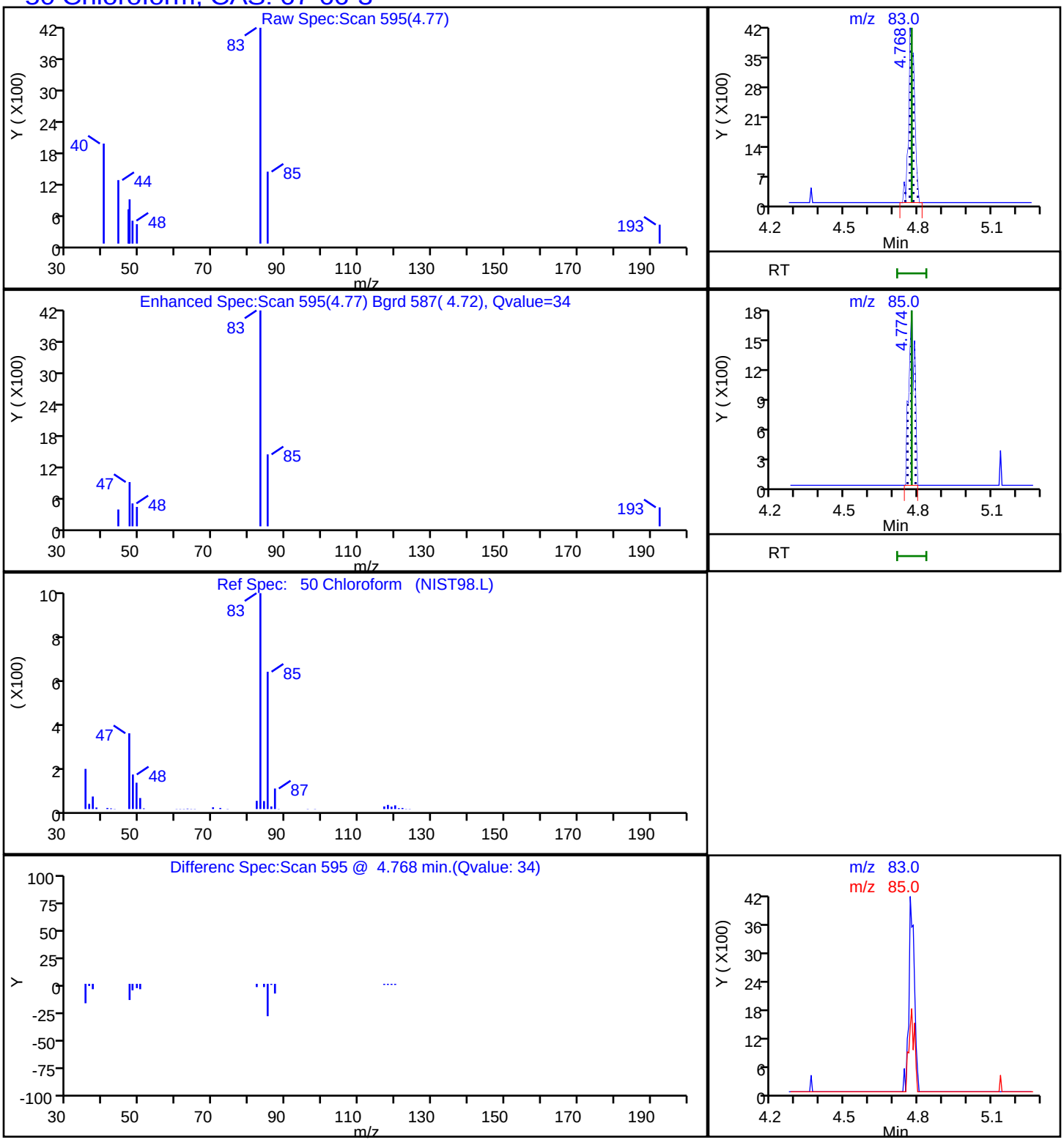
Report Date: 28-Jun-2018 12:34:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D

Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

50 Chloroform, CAS: 67-66-3



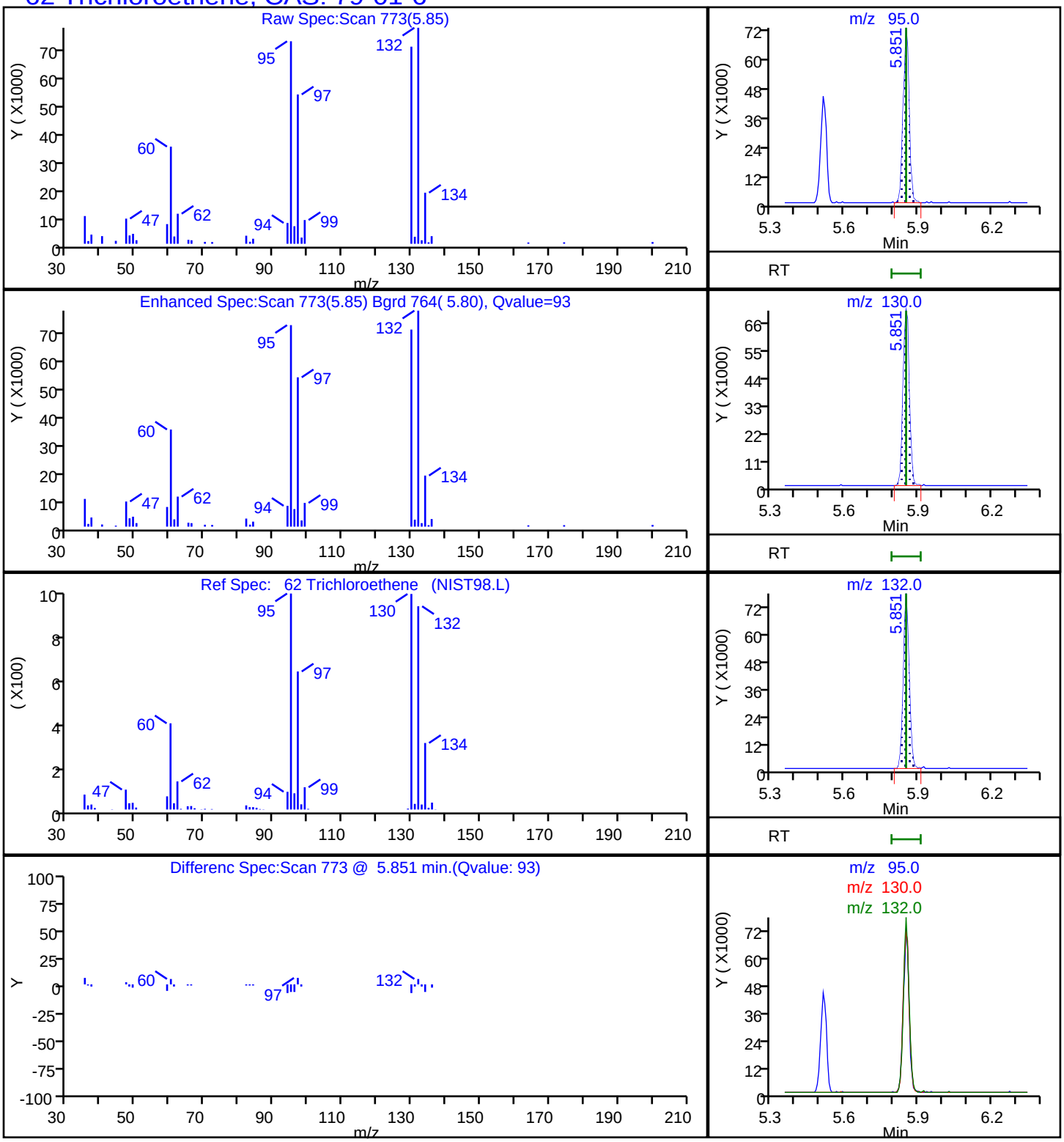
Report Date: 28-Jun-2018 12:34:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D

Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6

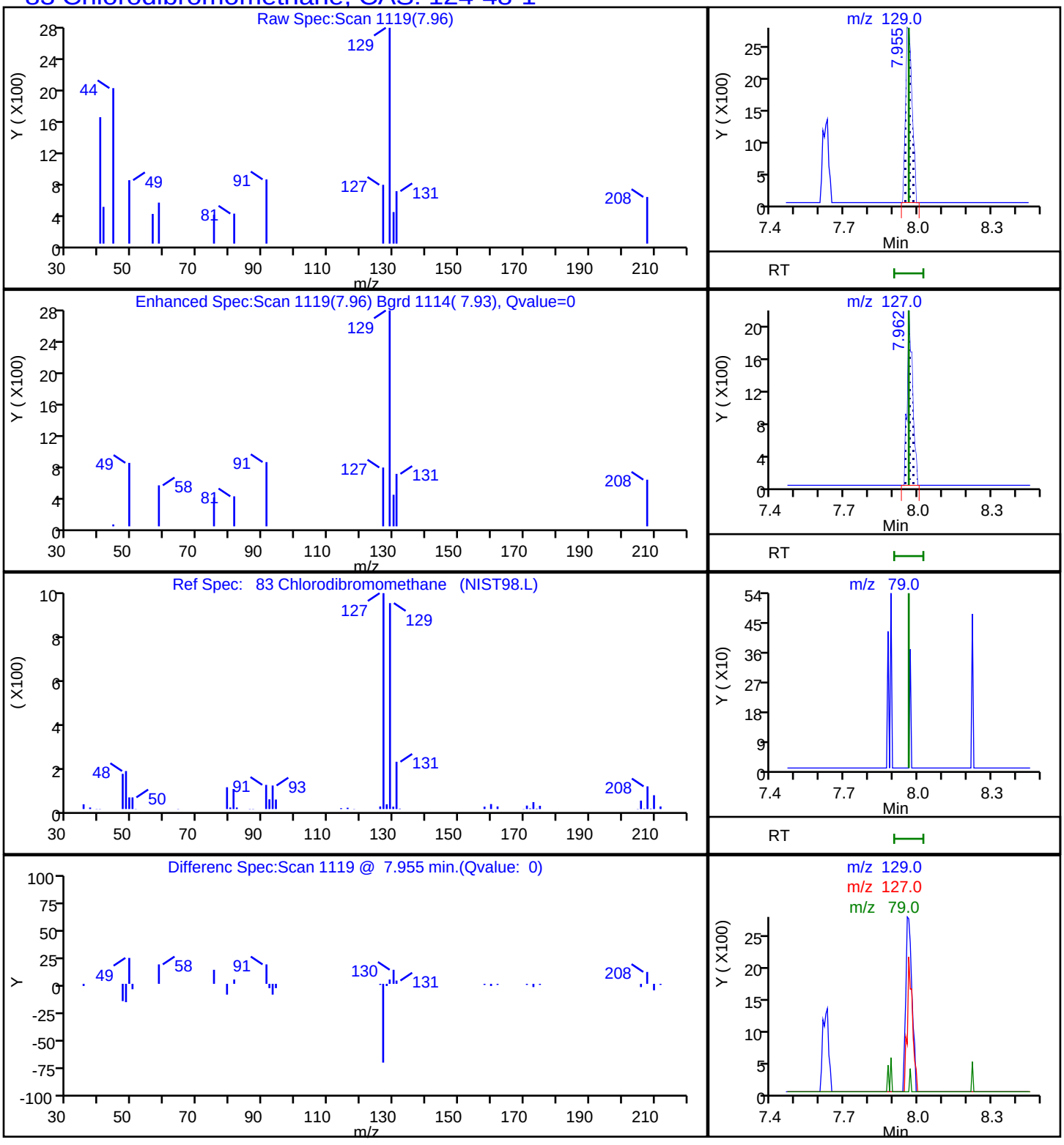


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D

Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

83 Chlorodibromomethane, CAS: 124-48-1

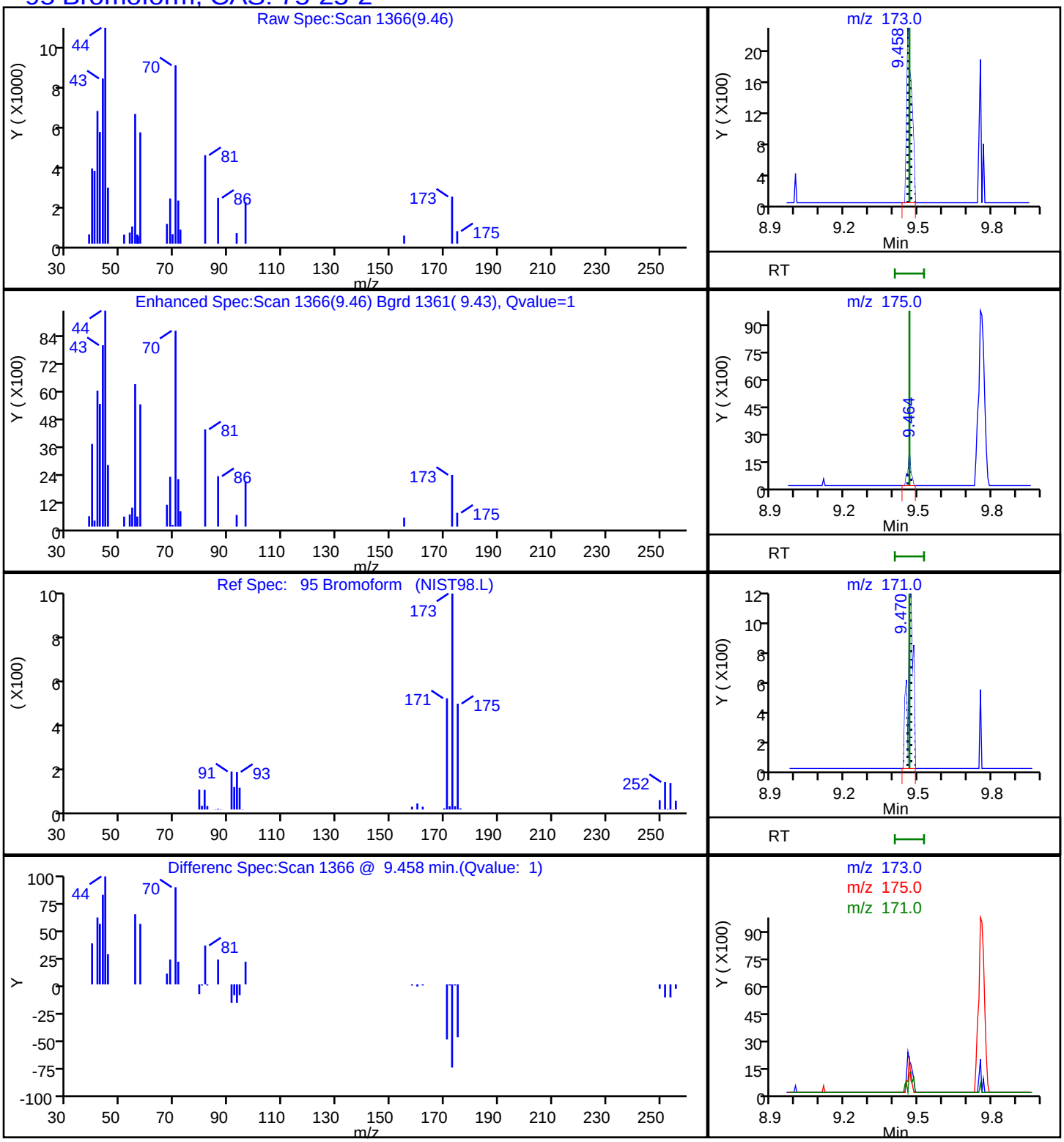


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D

Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4
Client ID:	PDI-111-WG-75-06182018		
Operator ID:	kn	ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

95 Bromoform, CAS: 75-25-2



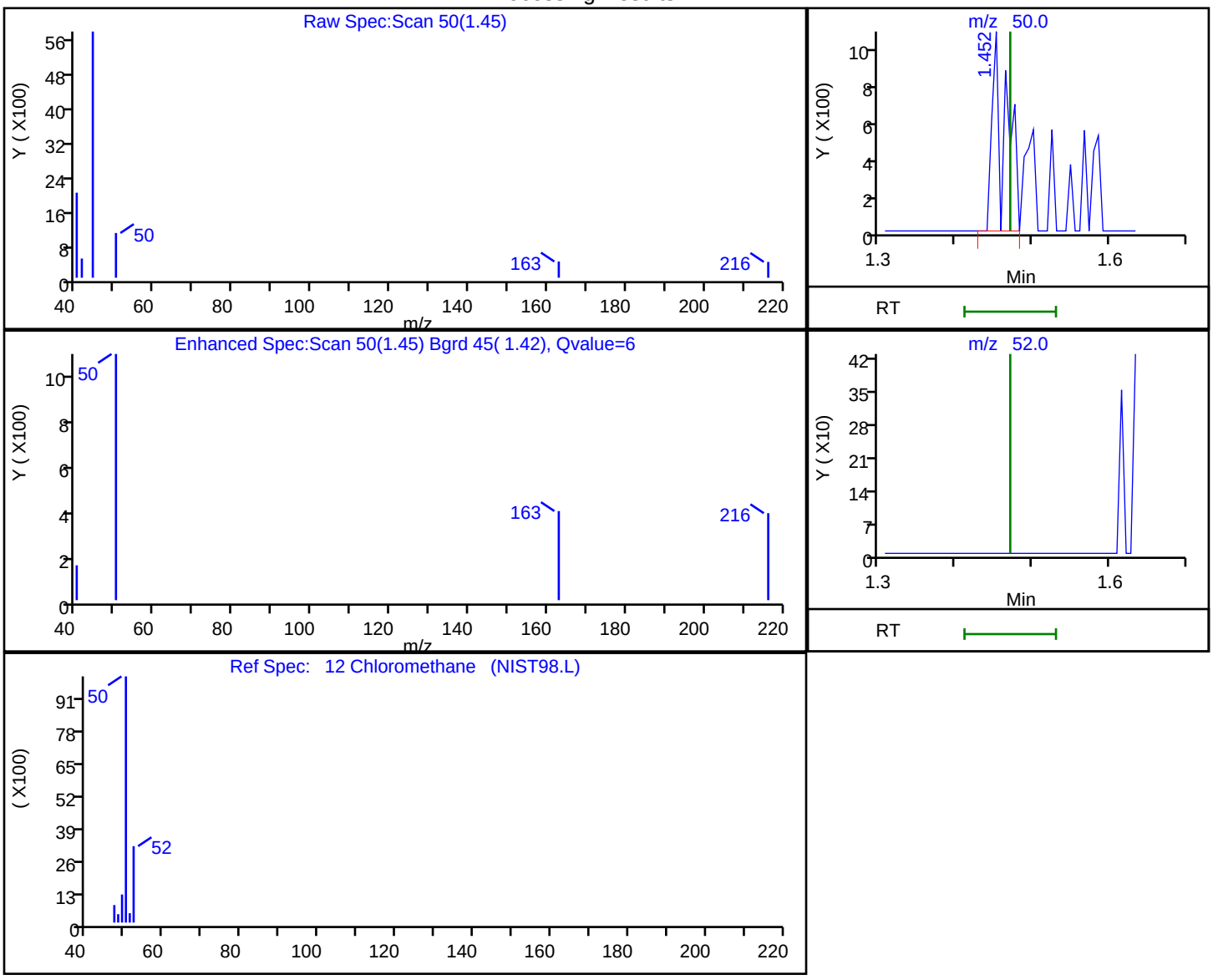
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D
Injection Date: 28-Jun-2018 00:18:30 Instrument ID: HP5973S
Lims ID: 480-137801-A-4 Lab Sample ID: 480-137801-4
Client ID: PDI-111-WG-75-06182018
Operator ID: kn ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.45	50.00	1314	0.103297
1.47	52.00	0	

Reviewer: carrolln, 28-Jun-2018 12:32:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

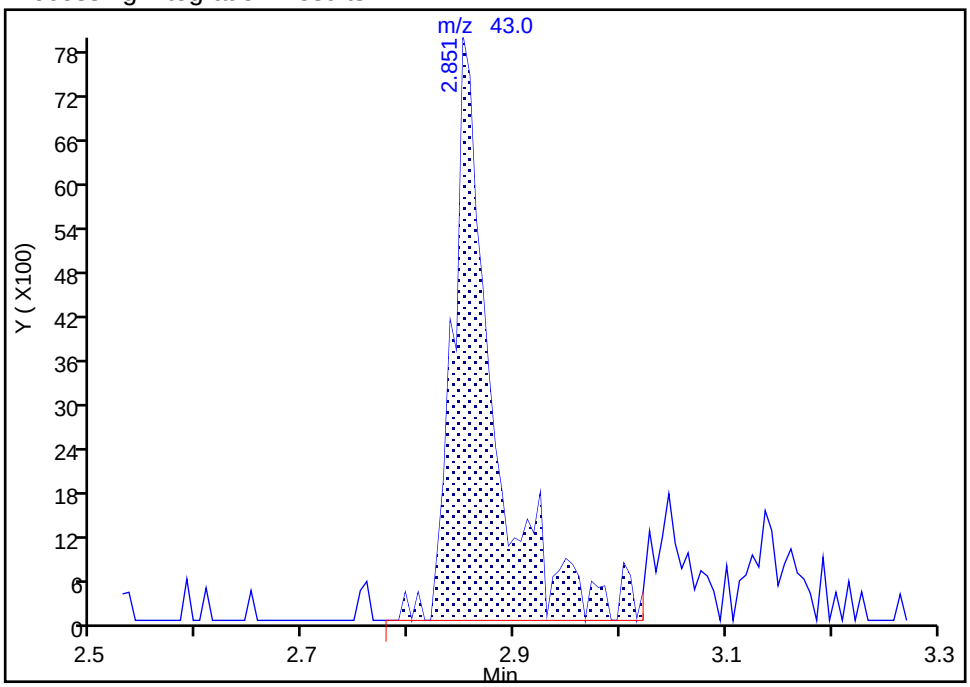
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D				
Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

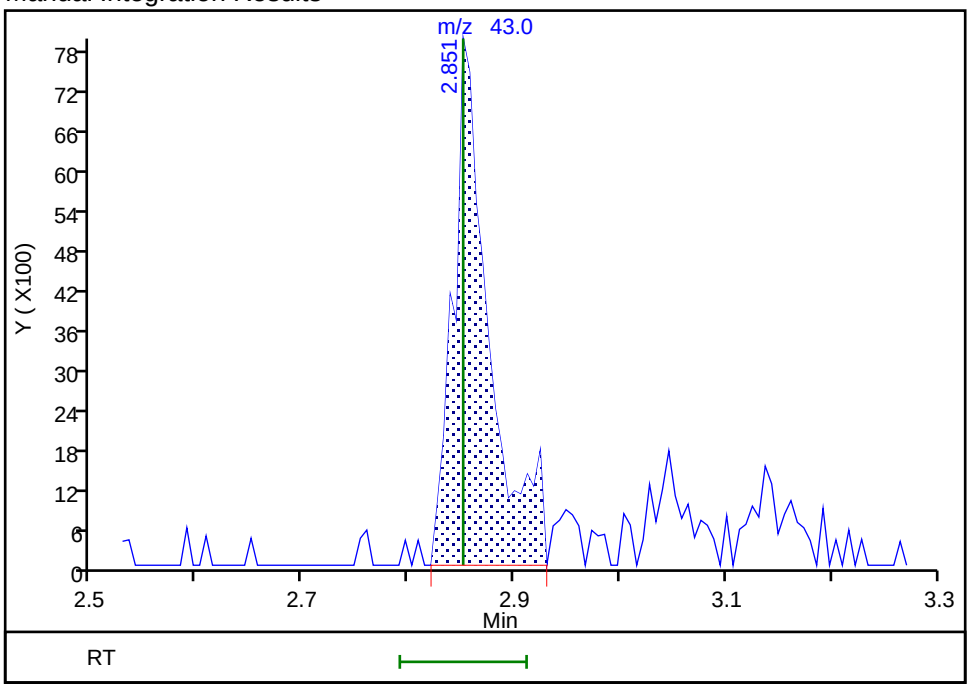
Processing Integration Results

RT: 2.85
Area: 21409
Amount: 6.692118
Amount Units: ug/L



Manual Integration Results

RT: 2.85
Area: 18688
Amount: 5.841576
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:32:38

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

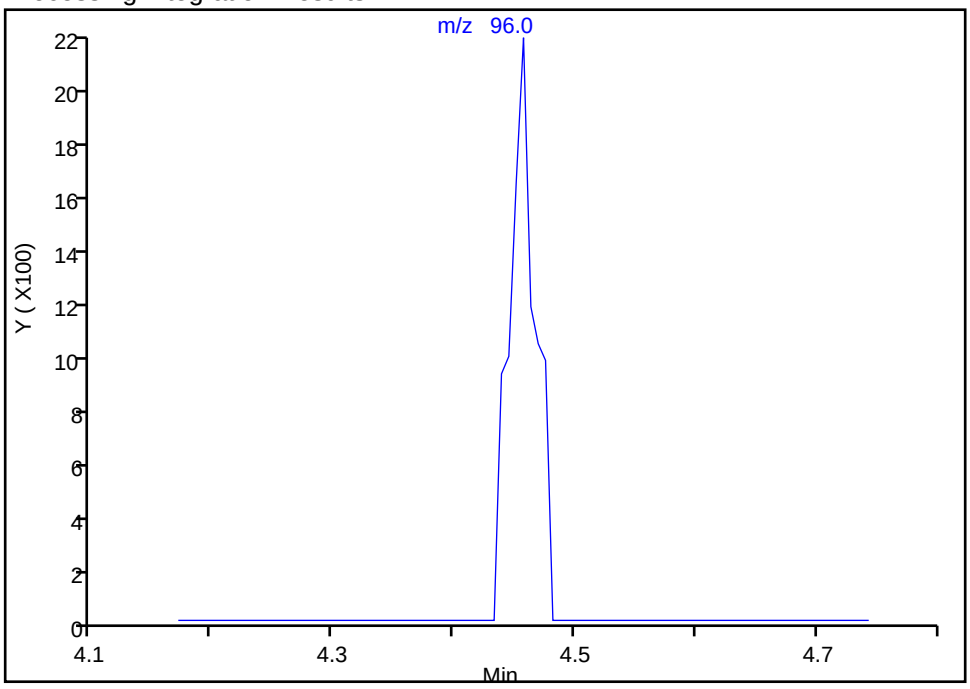
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D				
Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

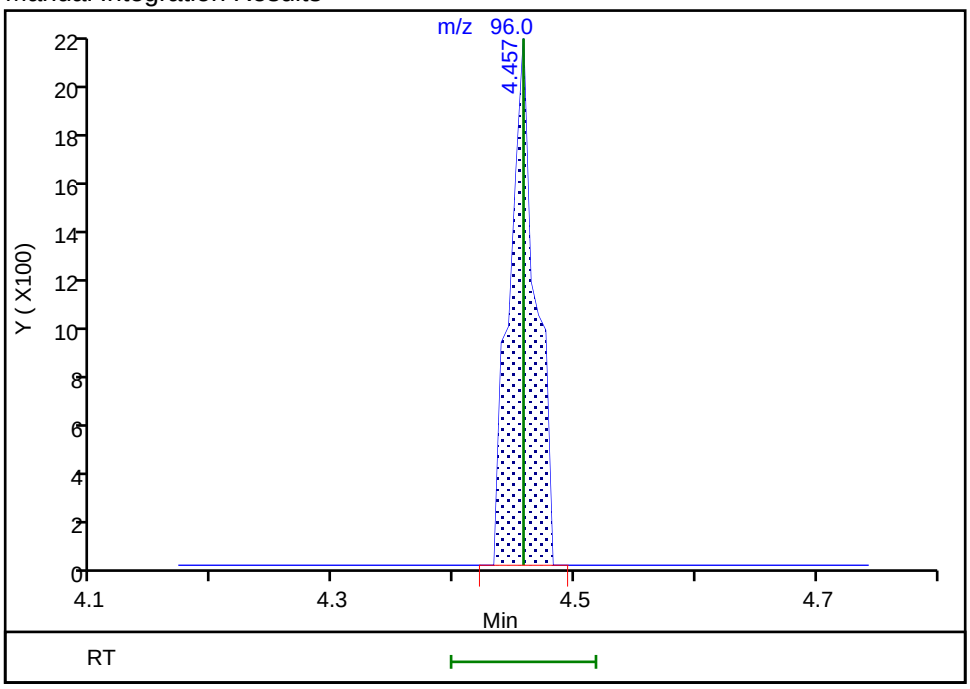
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 3172
Amount: 0.328386
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:32:52
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

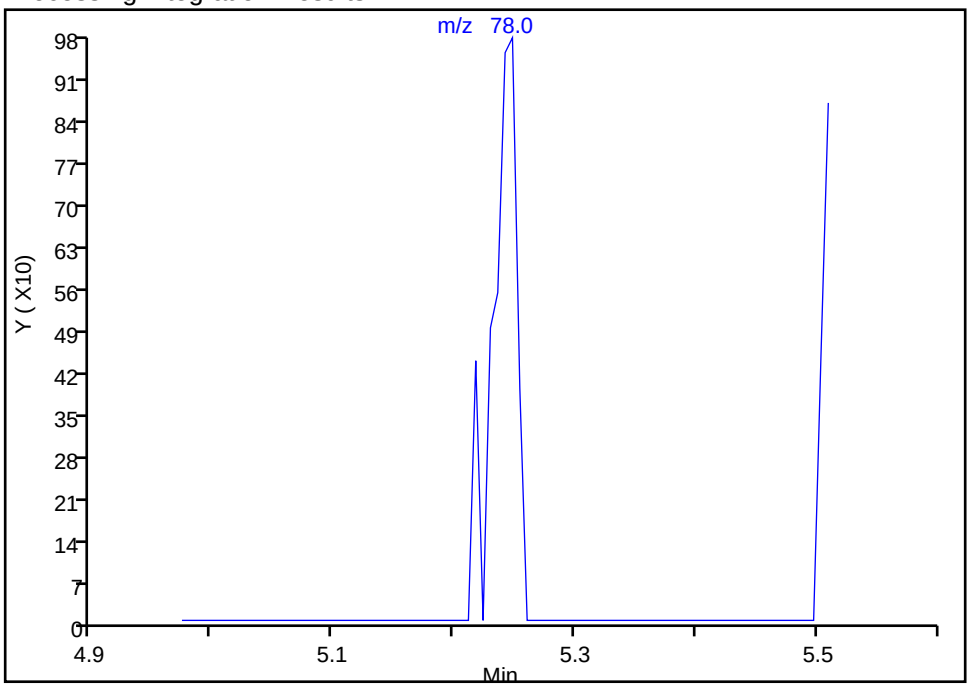
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2890.D				
Injection Date:	28-Jun-2018 00:18:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-A-4	Lab Sample ID:	480-137801-4		
Client ID:	PDI-111-WG-75-06182018				
Operator ID:	kn	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2

Signal: 1

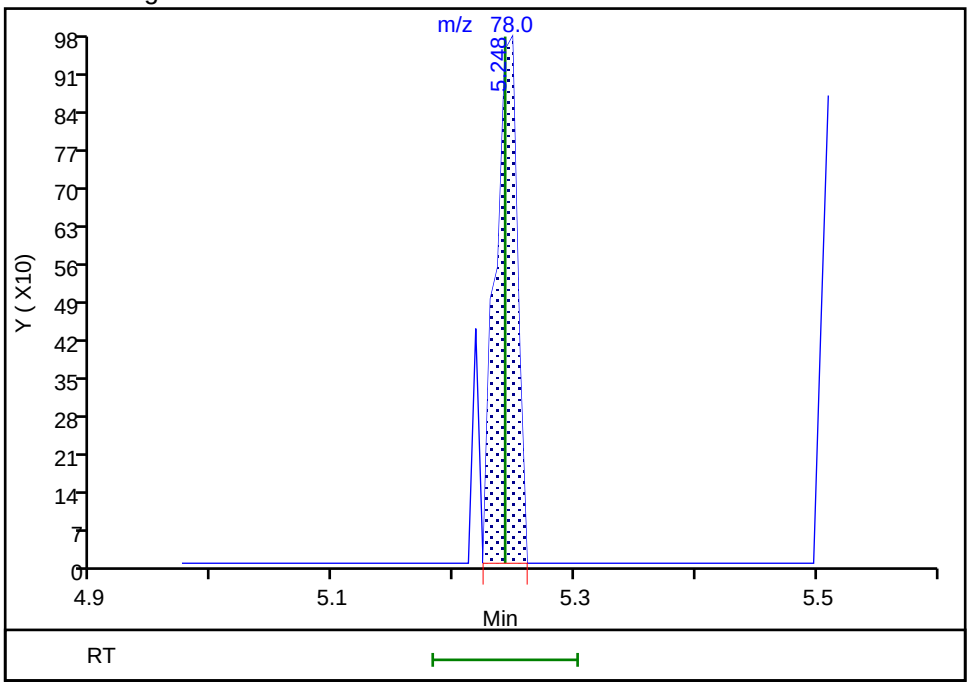
Not Detected
Expected RT: 5.24

Processing Integration Results



Manual Integration Results

RT: 5.25
Area: 1222
Amount: 0.034642
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:33:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-TB-06192018 | Lab Sample ID: 480-137801-5

Matrix: Water | Lab File ID: S2891.D

Analysis Method: 8260C | Date Collected: 06/19/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/28/2018 00:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.35
74-83-9	Bromomethane	ND		1.0	0.69
75-01-4	Vinyl chloride	ND		1.0	0.90
75-00-3	Chloroethane	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.44
67-64-1	Acetone	ND		10	3.0
75-15-0	Carbon disulfide	ND		1.0	0.19
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
67-66-3	Chloroform	ND		1.0	0.34
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
56-23-5	Carbon tetrachloride	ND		1.0	0.27
75-27-4	Bromodichloromethane	ND		1.0	0.39
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-01-6	Trichloroethene	ND		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.32
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
71-43-2	Benzene	ND		1.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-25-2	Bromoform	ND		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
591-78-6	2-Hexanone	ND		5.0	1.2
127-18-4	Tetrachloroethene	ND		1.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
108-88-3	Toluene	ND		1.0	0.51
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
100-42-5	Styrene	ND		1.0	0.73
1330-20-7	Xylenes, Total	ND		2.0	0.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-TB-06192018 | Lab Sample ID: 480-137801-5

Matrix: Water | Lab File ID: S2891.D

Analysis Method: 8260C | Date Collected: 06/19/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/28/2018 00:41

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		77-120
2037-26-5	Toluene-d8 (Surr)	101		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2891.D
Lims ID: 480-137801-A-5
Client ID: PDI-TB-06192018
Sample Type: Client
Inject. Date: 28-Jun-2018 00:41:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-A-5
Misc. Info.: 480-0072684-015
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 12:34:15 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 12:34:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.516	5.510	0.006	98	157154	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	329338	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	95	300331	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	194287	25.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	130100	26.4	
$ 5 Toluene-d8 (Surr)	98	7.024	7.025	-0.001	93	811957	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	242791	24.6	
10 Dichlorodifluoromethane	85		1.288				ND	
12 Chloromethane	50		1.470				ND	
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.878				ND	
15 Chloroethane	64		1.975				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
22 1,1-Dichloroethene	96		2.730				ND	
23 Acetone	43		2.851				ND	
26 Carbon disulfide	76		2.924				ND	
27 Methyl acetate	43		3.149				ND	
30 Methylene Chloride	84		3.259				ND	
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.472				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96		4.457				ND	
43 2-Butanone (MEK)	43		4.500				ND	
50 Chloroform	83		4.774				ND	
52 Cyclohexane	56		4.883				ND	
51 1,1,1-Trichloroethane	97		4.883				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78		5.242				ND	
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95		5.851				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.960				ND	
65 1,2-Dichloropropane	63		6.100				ND	
68 Dichlorobromomethane	83		6.392				ND	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952				ND	
74 Toluene	92		7.092				ND	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166		7.621				ND	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
92 Styrene	104		9.215				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

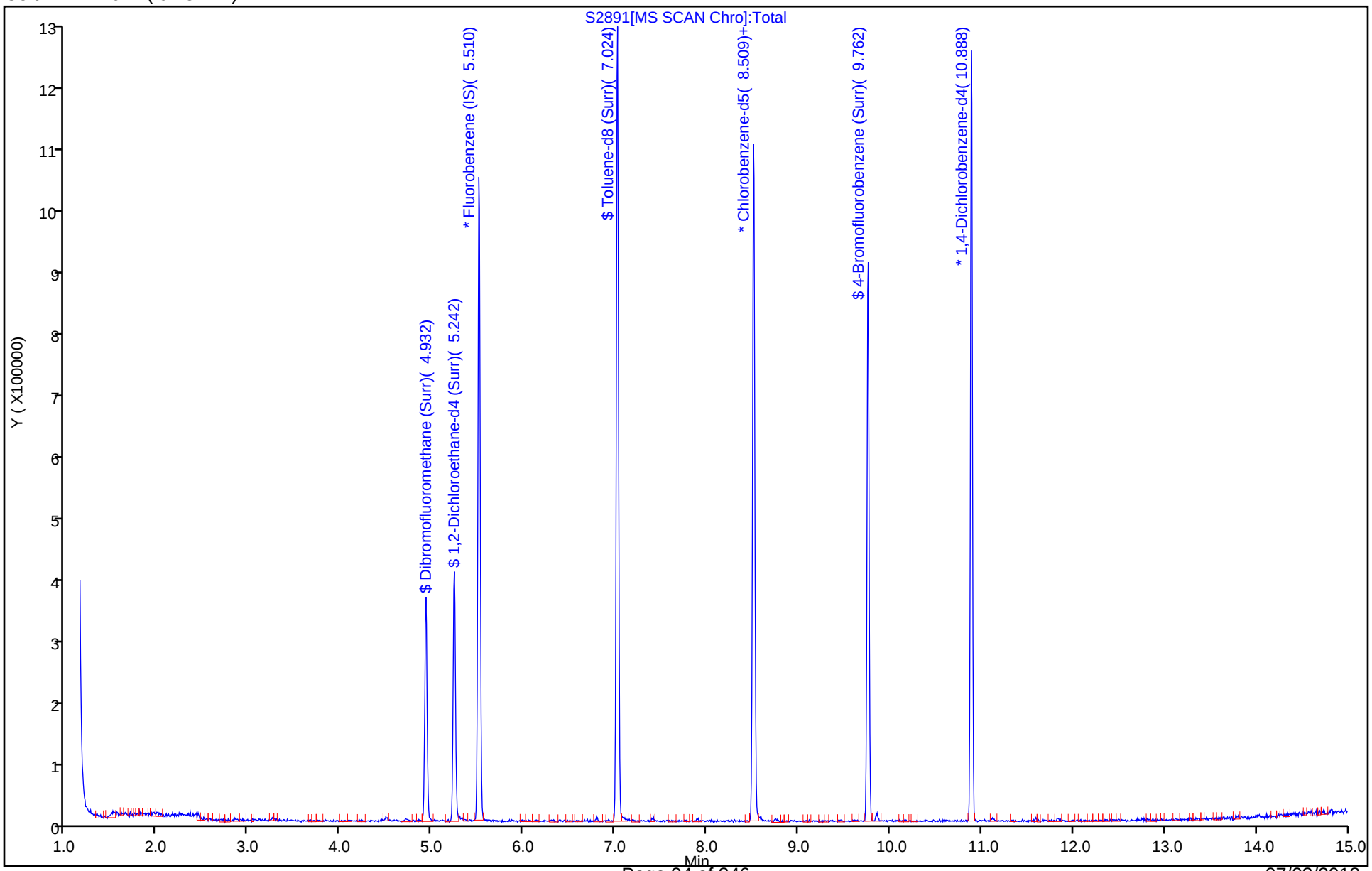
Report Date: 28-Jun-2018 12:34:54 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2891.D

Injection Date:	28-Jun-2018 00:41:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	480-137801-A-5	Lab Sample ID:	480-137801-5	Worklist Smp#:	15
Client ID:	PDI-TB-06192018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-10-WG-74-06182018 | Lab Sample ID: 480-137801-6

Matrix: Water | Lab File ID: S2892.D

Analysis Method: 8260C | Date Collected: 06/18/2018 15:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/28/2018 01:04

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-87-3	Chloromethane	ND		1.0	0.35
74-83-9	Bromomethane	ND		1.0	0.69
75-01-4	Vinyl chloride	ND		1.0	0.90
75-00-3	Chloroethane	ND		1.0	0.32
75-09-2	Methylene Chloride	ND		1.0	0.44
67-64-1	Acetone	4.8	J	10	3.0
75-15-0	Carbon disulfide	ND		1.0	0.19
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
67-66-3	Chloroform	ND		1.0	0.34
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
56-23-5	Carbon tetrachloride	ND		1.0	0.27
75-27-4	Bromodichloromethane	ND		1.0	0.39
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-01-6	Trichloroethene	9.4		1.0	0.46
124-48-1	Dibromochloromethane	ND		1.0	0.32
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
71-43-2	Benzene	ND		1.0	0.41
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-25-2	Bromoform	ND		1.0	0.26
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
591-78-6	2-Hexanone	ND		5.0	1.2
127-18-4	Tetrachloroethene	ND		1.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
108-88-3	Toluene	ND		1.0	0.51
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
100-42-5	Styrene	ND		1.0	0.73
1330-20-7	Xylenes, Total	ND		2.0	0.66

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Client Sample ID: PDI-10-WG-74-06182018 Lab Sample ID: 480-137801-6

Matrix: Water Lab File ID: S2892.D

Analysis Method: 8260C Date Collected: 06/18/2018 15:30

Sample wt/vol: 5(mL) Date Analyzed: 06/28/2018 01:04

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: ZB-624 (20) ID: 0.18(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 421976 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
110-82-7	Cyclohexane	ND		1.0	0.18
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
98-82-8	Isopropylbenzene	ND		1.0	0.79
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
2037-26-5	Toluene-d8 (Surr)	100		80-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D
Lims ID: 480-137801-B-6
Client ID: PDI-10-WG-74-06182018
Sample Type: Client
Inject. Date: 28-Jun-2018 01:04:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-137801-B-6
Misc. Info.: 480-0072684-016
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 12:36:59 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 12:36:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	165864	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	339651	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	304777	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	59	203327	25.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	132566	25.5	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	830495	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	250447	24.7	
10 Dichlorodifluoromethane	85		1.288				ND	
12 Chloromethane	50	1.464	1.464	-0.006	39	3810	0.3003	M
13 Vinyl chloride	62		1.549				ND	
14 Bromomethane	94		1.878				ND	
15 Chloroethane	64		1.975				ND	
17 Trichlorofluoromethane	101		2.194				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699				ND	
22 1,1-Dichloroethene	96		2.730				ND	
23 Acetone	43	2.851	2.851	0.000	79	15289	4.79	M
26 Carbon disulfide	76		2.924				ND	
27 Methyl acetate	43		3.149				ND	
30 Methylene Chloride	84		3.259				ND	
32 Methyl tert-butyl ether	73		3.454				ND	
34 trans-1,2-Dichloroethene	96		3.472				ND	
39 1,1-Dichloroethane	63		3.898				ND	
45 cis-1,2-Dichloroethene	96		4.457				ND	Ua
43 2-Butanone (MEK)	43		4.500				ND	
50 Chloroform	83	4.768	4.774	-0.006	12	3182	0.2065	
52 Cyclohexane	56		4.883				ND	
51 1,1,1-Trichloroethane	97		4.883				ND	
55 Carbon tetrachloride	117		5.017				ND	
57 Benzene	78	5.242	5.242	0.000	1	1253	0.0356	7a
58 1,2-Dichloroethane	62		5.315				ND	
62 Trichloroethene	95	5.850	5.863	-0.001	94	85391	9.41	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
64 Methylcyclohexane	83		5.960				ND	
65 1,2-Dichloropropane	63		6.100				ND	
68 Dichlorobromomethane	83	6.386	6.392	-0.006	1	1161	0.1088	
72 cis-1,3-Dichloropropene	75		6.806				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952				ND	
74 Toluene	92		7.092				ND	
77 trans-1,3-Dichloropropene	75		7.378				ND	
79 1,1,2-Trichloroethane	83		7.566				ND	
81 Tetrachloroethene	166	7.609	7.621	-0.012	23	2080	0.2182	
80 2-Hexanone	43		7.791				ND	
83 Chlorodibromomethane	129		7.962				ND	
84 Ethylene Dibromide	107		8.071				ND	
87 Chlorobenzene	112		8.539				ND	
88 Ethylbenzene	91		8.631				ND	
90 m-Xylene & p-Xylene	106		8.752				ND	
91 o-Xylene	106		9.178				ND	
92 Styrene	104		9.215				ND	
95 Bromoform	173		9.464				ND	
94 Isopropylbenzene	105		9.562				ND	
97 1,1,2,2-Tetrachloroethane	83		9.969				ND	
111 1,3-Dichlorobenzene	146		10.827				ND	
113 1,4-Dichlorobenzene	146		10.912				ND	
116 1,2-Dichlorobenzene	146		11.265				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995				ND	
119 1,2,4-Trichlorobenzene	180		12.664				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

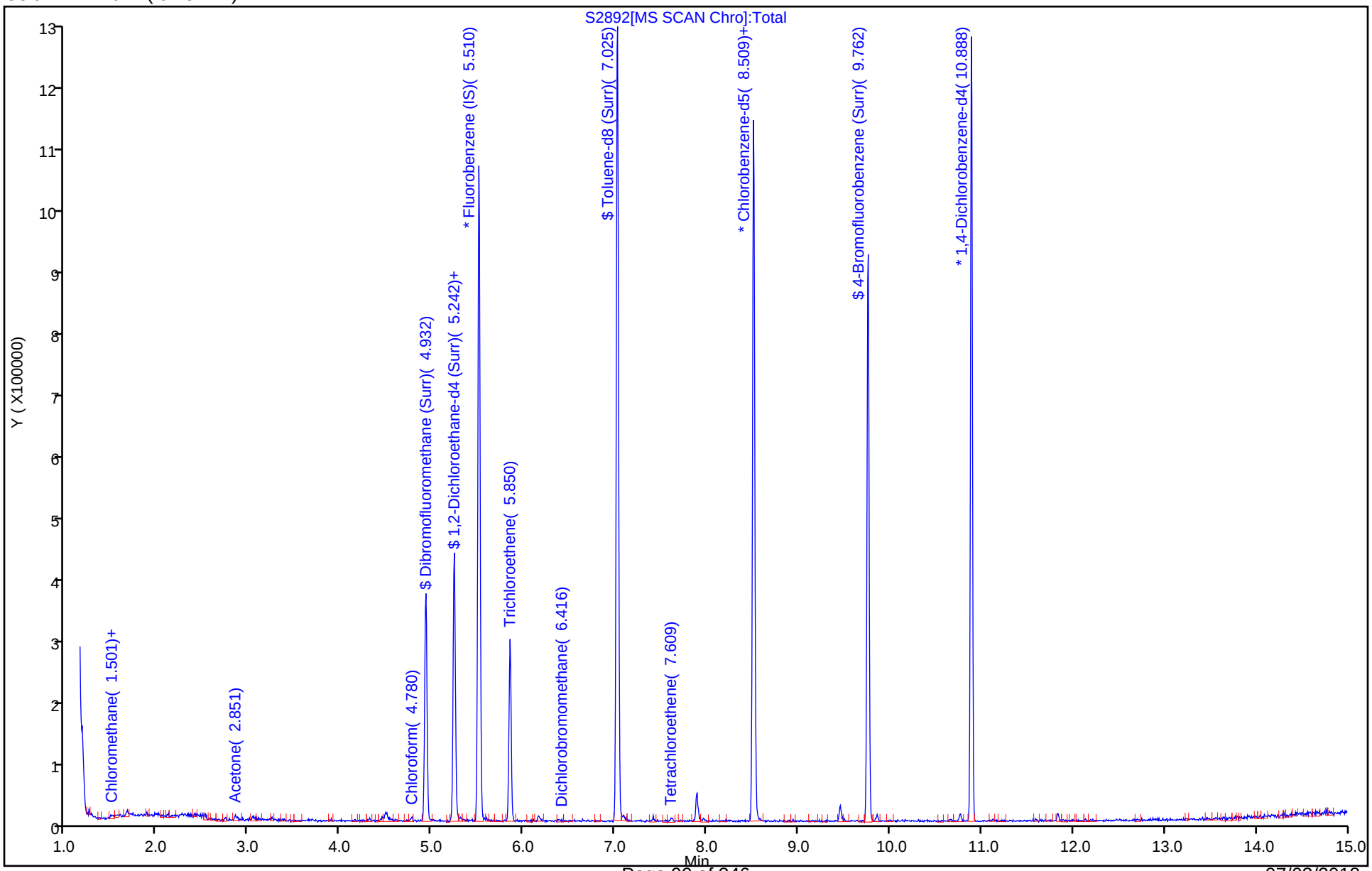
Report Date: 28-Jun-2018 12:36:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D

Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6	Worklist Smp#:	16
Client ID:	PDI-10-WG-74-06182018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

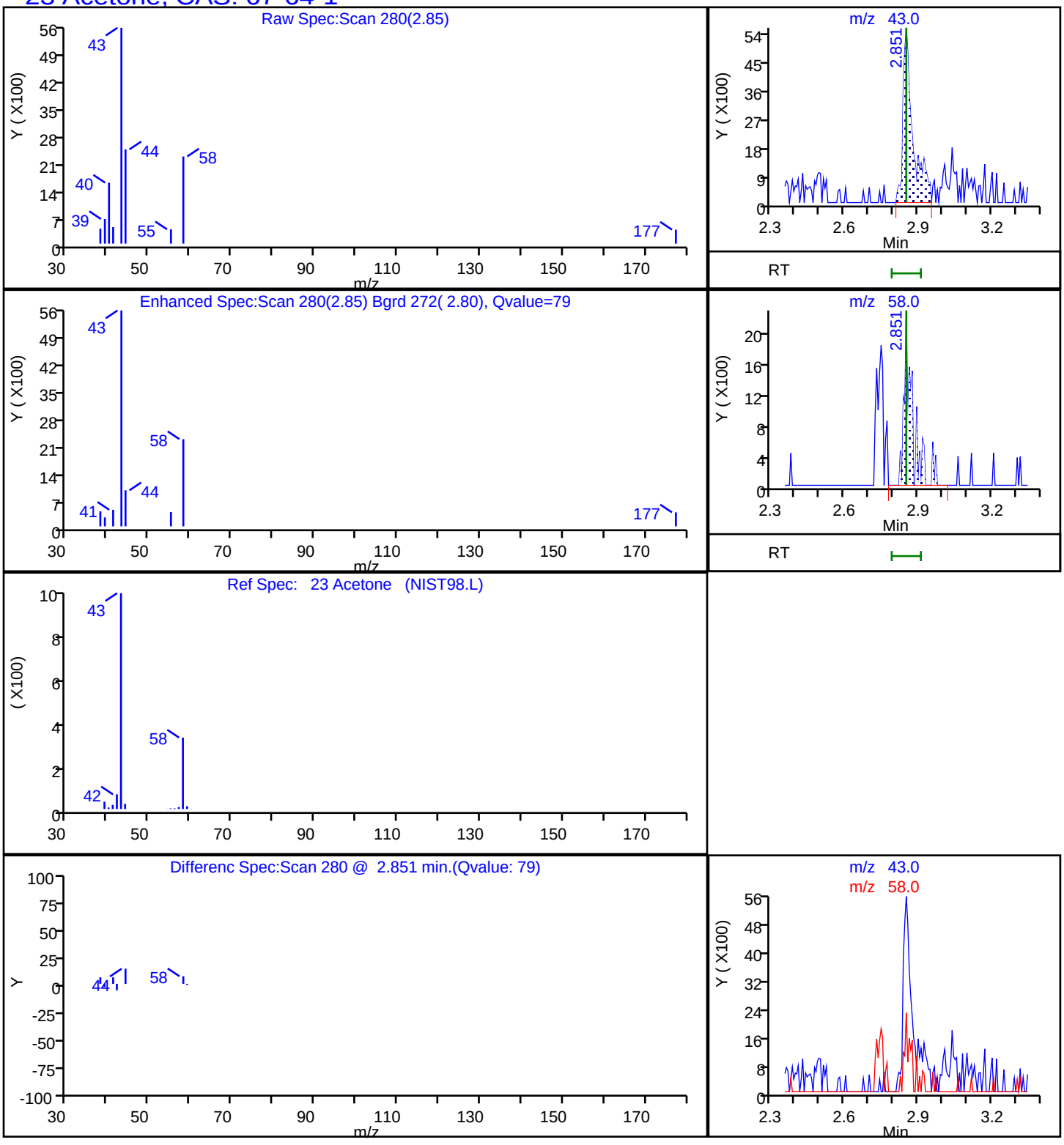


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D

Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6
Client ID:	PDI-10-WG-74-06182018		
Operator ID:	kn	ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	S-8260	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



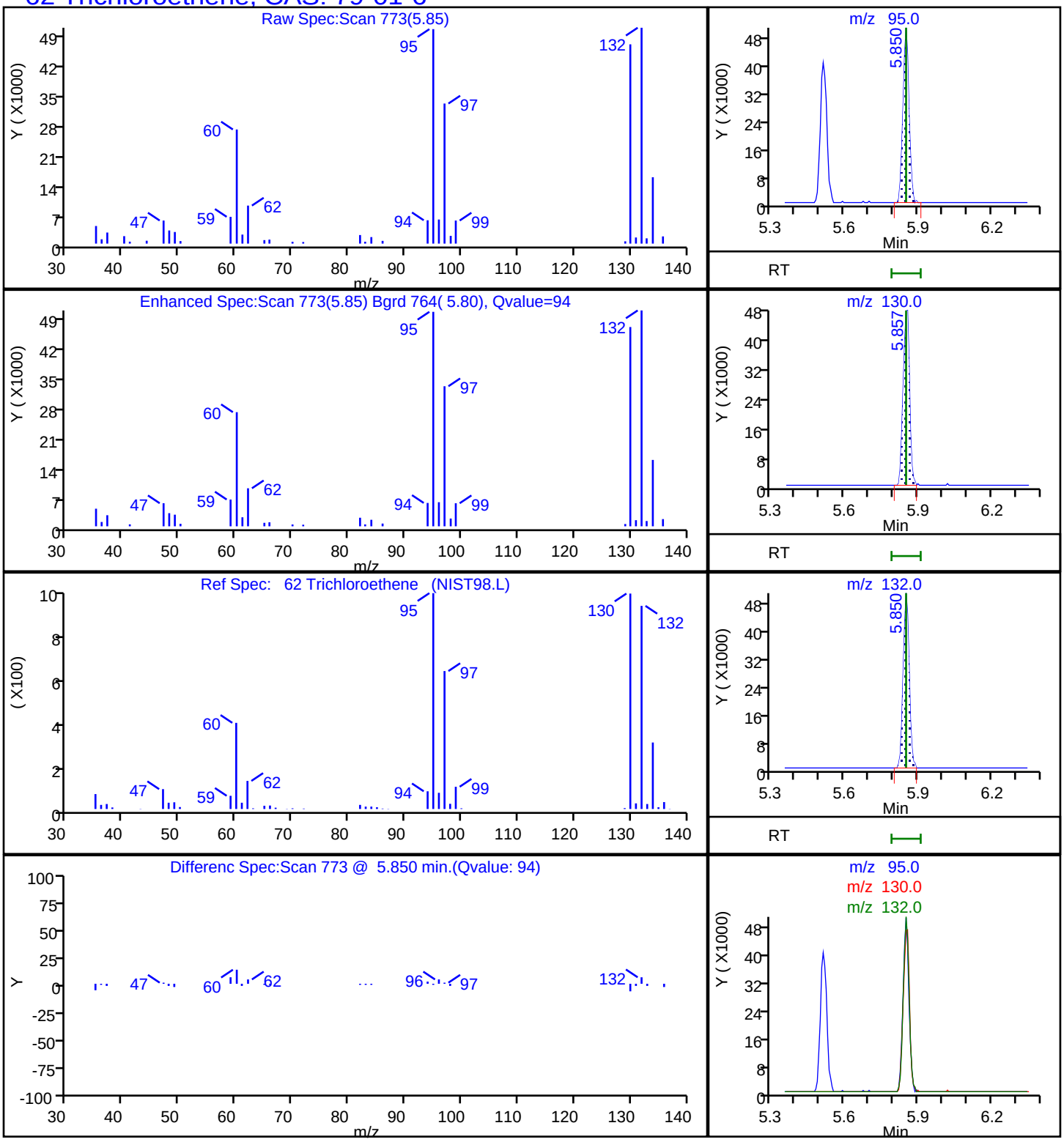
Report Date: 28-Jun-2018 12:37:00 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D

Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6		
Client ID:	PDI-10-WG-74-06182018				
Operator ID:	kn	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

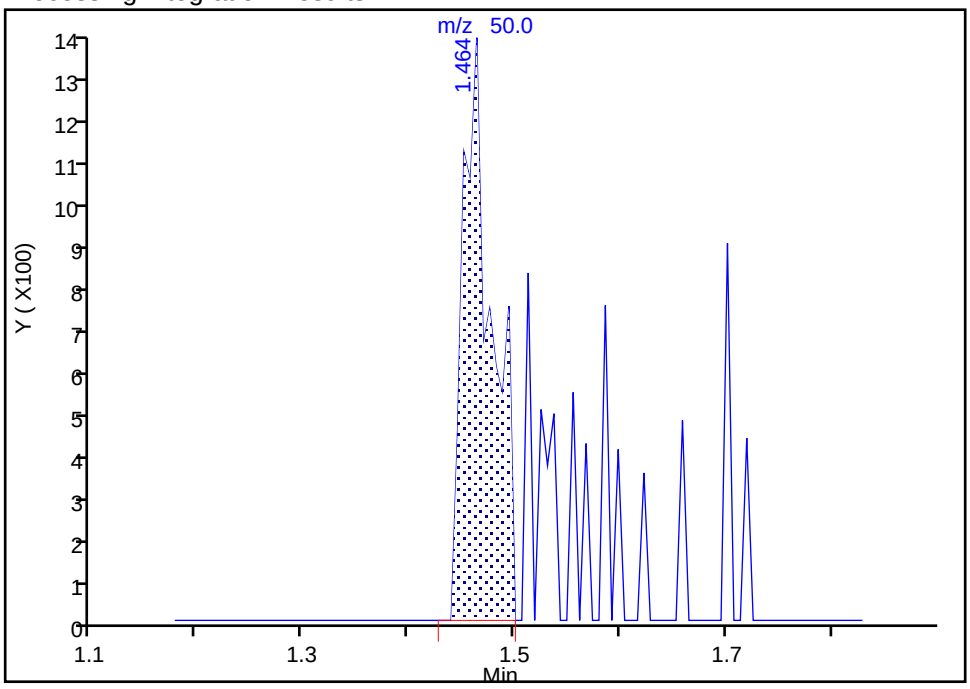
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D				
Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6		
Client ID:	PDI-10-WG-74-06182018				
Operator ID:	kn	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

12 Chloromethane, CAS: 74-87-3

Signal: 1

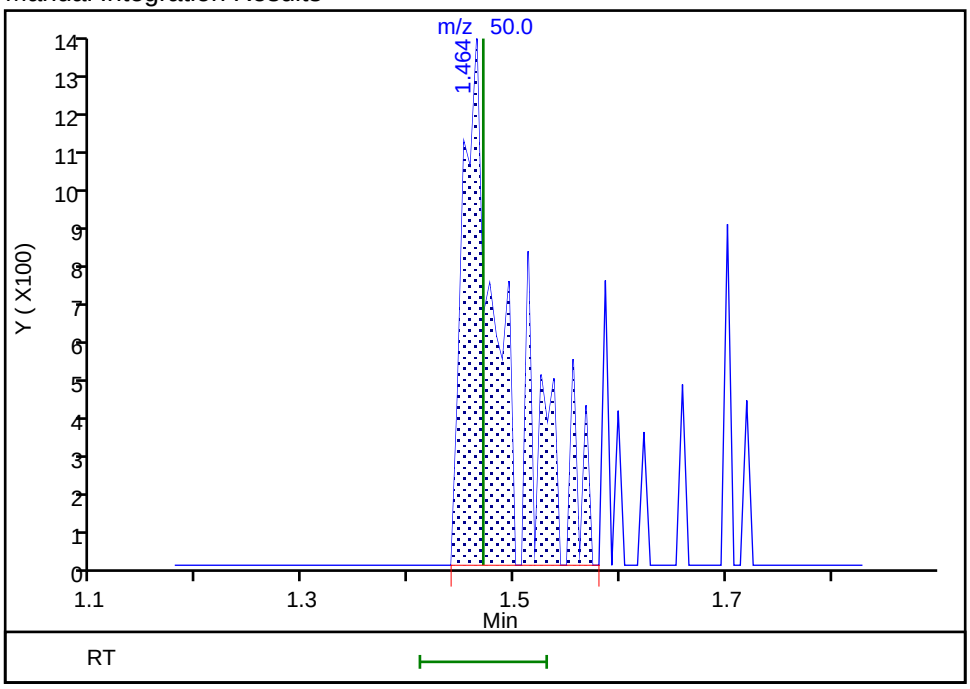
Processing Integration Results

RT: 1.46
Area: 2658
Amount: 0.209476
Amount Units: ug/L



Manual Integration Results

RT: 1.46
Area: 3810
Amount: 0.300264
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:35:20

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

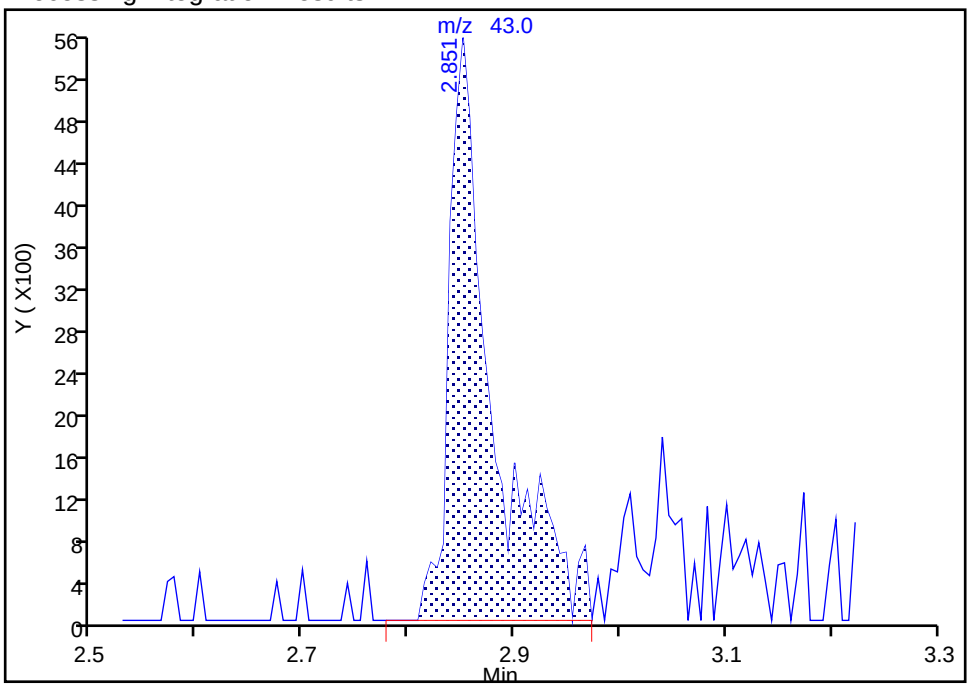
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D				
Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6		
Client ID:	PDI-10-WG-74-06182018				
Operator ID:	kn	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1

Signal: 1

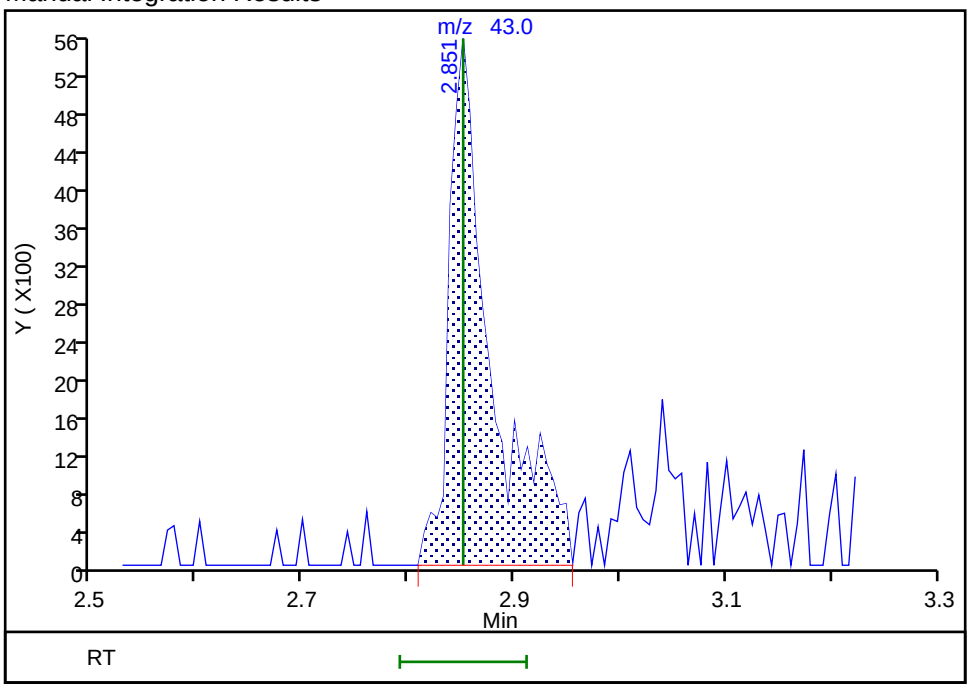
Processing Integration Results

RT: 2.85
Area: 15745
Amount: 4.933984
Amount Units: ug/L



Manual Integration Results

RT: 2.85
Area: 15289
Amount: 4.791088
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:35:37

Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

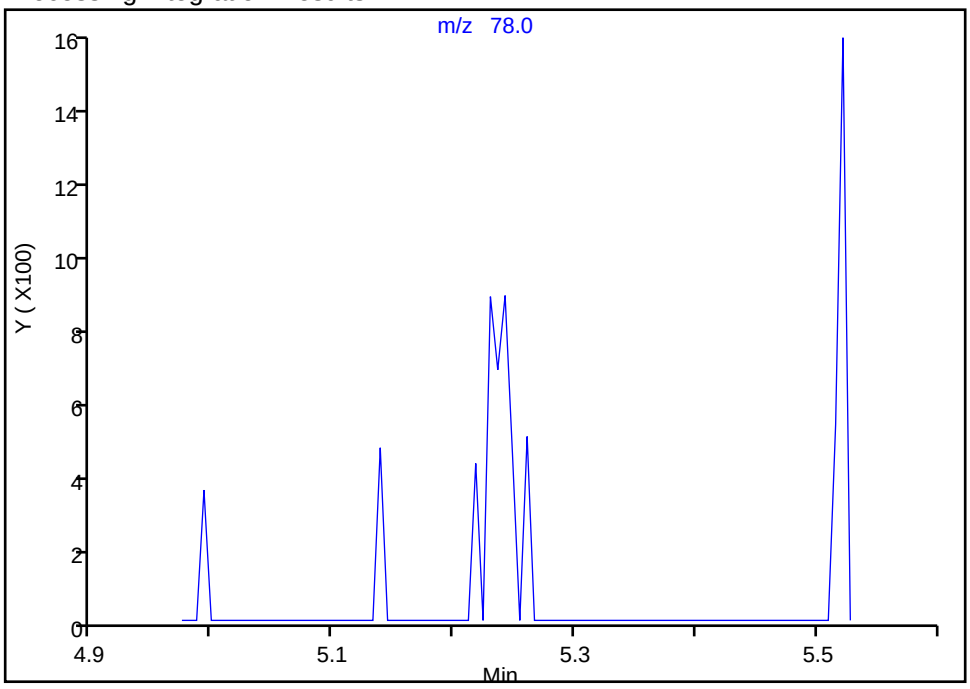
Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2892.D				
Injection Date:	28-Jun-2018 01:04:30	Instrument ID:	HP5973S		
Lims ID:	480-137801-B-6	Lab Sample ID:	480-137801-6		
Client ID:	PDI-10-WG-74-06182018				
Operator ID:	kn	ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	S-8260	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

57 Benzene, CAS: 71-43-2

Signal: 1

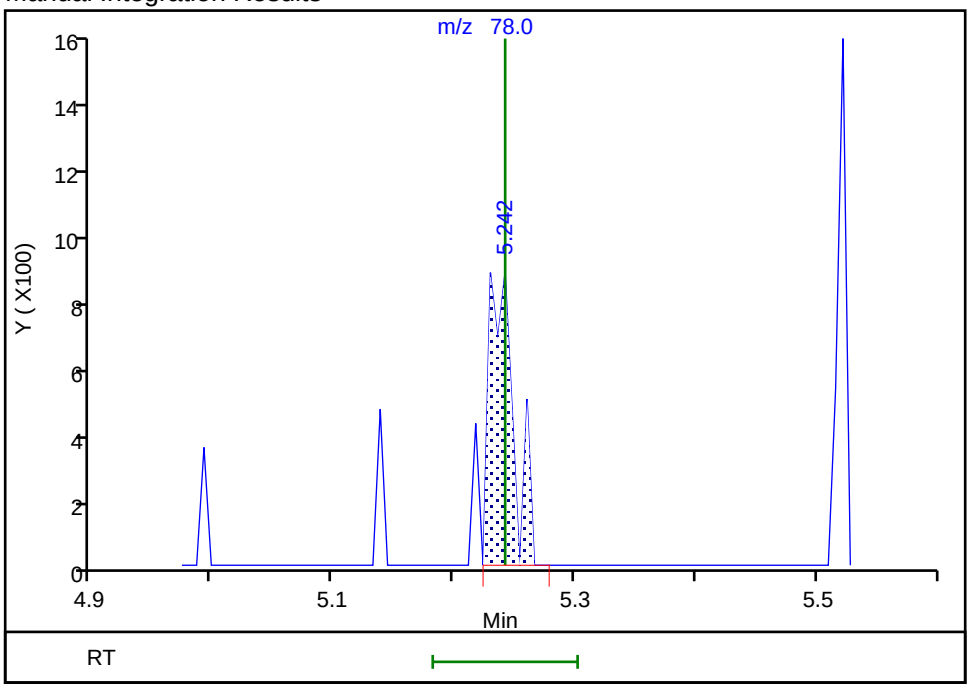
Not Detected
Expected RT: 5.24

Processing Integration Results



Manual Integration Results

RT: 5.24
Area: 1253
Amount: 0.035610
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 12:36:16
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.4747 1.5126	1.5929 1.4319	1.7816	1.6637	1.5955	Ave		1.5790			0.1000	7.6		20.0			
Chloromethane	1.3439 1.1847	1.3750 1.1272	1.4011	1.3402	1.2423	Ave		1.2878			0.1000	8.1		20.0			
Vinyl chloride	1.2491 1.1469	1.3474 1.1182	1.4288	1.3136	1.2262	Ave		1.2615			0.1000	8.8		20.0			
Butadiene	1.5366 1.2002	1.5098 1.1496	1.6099	1.4740	1.3333	Ave		1.4019				12.6		20.0			
Bromomethane	0.7649 0.6160	0.7835 0.6341	0.7838	0.7278	0.6732	Ave		0.7119			0.1000	10.0		20.0			
Chloroethane	0.6278 0.4814	0.6275 0.4988	0.6307	0.5878	0.5386	Ave		0.5704			0.1000	11.2		20.0			
Dichlorofluoromethane	1.5656 1.3690	1.6037 1.3372	1.7963	1.5889	1.4923	Ave		1.5362				10.1		20.0			
Trichlorofluoromethane	1.6647 1.4955	1.7900 1.4681	1.8430	1.7296	1.6485	Ave		1.6628			0.1000	8.5		20.0			
Ethyl ether	+++++ 0.8527	1.1181 0.8824	1.0084	1.0434	0.8833	Ave		0.9647				11.1		20.0			
Acrolein	+++++ 0.2583	0.2679 0.2320	0.2685	0.2754	0.2244	Ave		0.2544				8.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2962 1.2350	1.3003 1.1690	1.4585	1.3695	1.2673	Ave		1.2994			0.1000	7.2		20.0			
1,1-Dichloroethene	1.3223 1.2050	1.3331 1.1478	1.4209	1.3551	1.2469	Ave		1.2901			0.1000	7.3		20.0			
Acetone	0.5589 0.5388	0.5196 0.4675	0.5652	0.5683	0.4552	Ave		0.5248			0.1000	8.9		20.0			
Iodomethane	2.2915 2.2413	2.3058 2.1269	2.5175	2.4118	2.2857	Ave		2.3115				5.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.0846 4.0140	4.1951 3.7611	4.5777	4.3856	4.1710	Ave		4.1699			0.1000	6.3		20.0			
Allyl chloride	2.1178 1.9555	2.1274 1.8329	2.2525	2.1229	2.0376	Ave		2.0638				6.6		20.0			
Methyl acetate	1.0023 1.0384	0.9318 0.9267	0.9946	1.0584	0.9032	Ave		0.9793			0.1000	6.1		20.0			
Methylene Chloride	+++++ 1.4716	2.7507 1.3822	2.2308	1.8197	1.5337	Lin1	7.7627	1.3667			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1453 0.1741	0.1488 0.1429	0.1627	0.1680	0.1301	Ave		0.1531				10.2		20.0			
Methyl tert-butyl ether	4.6040 4.4851	4.5687 4.0658	4.7965	4.6946	4.2841	Ave		4.4999			0.1000	5.6		20.0			
trans-1,2-Dichloroethene	1.5356 1.4126	1.5672 1.3430	1.5913	1.5075	1.4411	Ave		1.4855			0.1000	6.0		20.0			
Acrylonitrile	0.5267 0.5040	0.4858 0.4331	0.5154	0.5324	0.4473	Ave		0.4921				7.9		20.0			
Hexane	+++++ 2.1502	2.6178 2.0414	2.5897	2.3890	2.2554	Ave		2.3406				10.0		20.0			
Vinyl acetate	2.8183 2.7768	2.7444 2.4042	2.8844	2.9177	2.6669	Ave		2.7447				6.3		20.0			
1,1-Dichloroethane	2.5793 2.4366	2.6671 2.2974	2.7173	2.5998	2.4820	Ave		2.5399			0.2000	5.7		20.0			
2,2-Dichloropropane	2.2423 2.0999	2.2180 1.9897	2.3425	2.2763	2.1565	Ave		2.1893				5.4		20.0			
2-Butanone (MEK)	+++++ 0.7334	0.6357 0.6362	0.7197	0.7549	0.6182	Ave		0.6830			0.1000	8.7		20.0			
cis-1,2-Dichloroethene	1.6984 1.5453	1.7105 1.4787	1.7386	1.6696	1.5896	Ave		1.6330			0.1000	5.9		20.0			
Chlorobromomethane	0.8057 0.7625	0.7782 0.7195	0.8163	0.7840	0.7481	Ave		0.7735				4.3		20.0			
Tetrahydrofuran	+++++ 0.4469	0.4092 0.3877	0.4349	0.4594	0.3658	Ave		0.4173				8.7		20.0			
Chloroform	2.8485 2.5141	2.7819 2.3681	2.8435	2.6989	2.5529	Ave		2.6583			0.2000	6.9		20.0			
1,1,1-Trichloroethane	2.2928 2.1755	2.2698 2.0696	2.4237	2.3365	2.2192	Ave		2.2553			0.1000	5.1		20.0			
Cyclohexane	2.3215 2.1489	2.3287 2.0166	2.5367	2.3650	2.2262	Ave		2.2776			0.1000	7.3		20.0			
1,1-Dichloropropene	2.1039 1.9932	2.1983 1.8716	2.2942	2.1692	2.0525	Ave		2.0976				6.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.7642 1.9380	1.8429 1.8634	2.0030	1.9386	1.9323	Ave		1.8975			0.1000	4.2		20.0			
Isobutyl alcohol	+++++ 0.0746	0.0553 0.0636	0.0628	0.0698	0.0572	Ave		0.0639				11.5		20.0			
Benzene	6.0364 5.4252	6.1096 4.9098	6.2596	5.9524	5.6173	Ave		5.7586			0.5000	8.2		20.0			
1,2-Dichloroethane	2.4008 2.1156	2.2629 1.9517	2.3236	2.2365	2.0875	Ave		2.1969			0.1000	7.0		20.0			
n-Heptane	2.5005 2.0683	2.3217 1.9971	2.4411	2.2991	2.1878	Ave		2.2594				8.2		20.0			
Trichloroethene	1.5834 1.4538	1.6101 1.3841	1.6658	1.5680	1.4887	Ave		1.5363			0.2000	6.4		20.0			
Methylcyclohexane	2.7144 2.5752	2.7821 2.4347	2.9681	2.8239	2.6568	Ave		2.7079			0.1000	6.4		20.0			
1,2-Dichloropropane	1.3724 1.2992	1.3978 1.2477	1.4219	1.3688	1.3145	Ave		1.3460			0.1000	4.5		20.0			
1,4-Dioxane	+++++ 0.0083	0.0059 0.0074	0.0079	0.0081	0.0071	Ave		0.0074				11.6		20.0			
Dibromomethane	0.9268 0.9170	0.9202 0.8604	0.9533	0.9568	0.8833	Ave		0.9168			0.1000	3.8		20.0			
Bromodichloromethane	1.7563 1.9472	1.8092 1.8656	1.9128	1.9132	1.8972	Ave		1.8717			0.2000	3.6		20.0			
2-Chloroethyl vinyl ether	0.7876 0.8599	0.8034 0.8070	0.8664	0.8577	0.8034	Ave		0.8265				4.0		20.0			
cis-1,3-Dichloropropene	2.2267 2.3105	2.2719 2.1945	2.3478	2.3327	2.2863	Ave		2.2815			0.2000	2.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.6500 0.6497	0.6053 0.5397	0.6841	0.7179	0.5978	Ave		0.6349			0.1000	9.3		20.0			
Toluene	1.8799 1.7045	1.8075 1.6017	1.9211	1.8438	1.7804	Ave		1.7913			0.4000	6.1		20.0			
trans-1,3-Dichloropropene	0.9879 1.0967	0.9798 1.0451	1.0816	1.0766	1.0786	Ave		1.0495			0.1000	4.5		20.0			
Ethyl methacrylate	0.8931 0.9599	0.8295 0.8915	0.9267	0.9500	0.8970	Ave		0.9068				4.8		20.0			
1,1,2-Trichloroethane	0.5215 0.5068	0.4993 0.4797	0.5326	0.5305	0.4954	Ave		0.5094			0.1000	3.9		20.0			
Tetrachloroethene	0.8369 0.7666	0.8020 0.7301	0.8698	0.8335	0.8003	Ave		0.8056			0.2000	5.8		20.0			
1,3-Dichloropropane	1.0982 1.0751	1.0492 1.0080	1.1294	1.1243	1.0664	Ave		1.0787				4.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4957 0.5120	0.4559 0.4319	0.5253	0.5732	0.4763	Ave		0.4957			0.1000	9.5		20.0			
Dibromochloromethane	+++++ 0.7088	0.5145 0.6920	0.5948	0.6380	0.6610	Ave		0.6349			0.1000	11.3		20.0			
1,2-Dibromoethane	0.6400 0.6651	0.6277 0.6251	0.6693	0.6762	0.6398	Ave		0.6490				3.2		20.0			
Chlorobenzene	1.9940 1.8452	1.9913 1.7058	2.0894	2.0185	1.9257	Ave		1.9386			0.5000	6.6		20.0			
Ethylbenzene	3.4648 3.0086	3.3389 2.6356	3.5356	3.3896	3.2260	Ave		3.2285			0.1000	9.7		20.0			
1,1,1,2-Tetrachloroethane	0.5524 0.6615	0.5748 0.6373	0.6595	0.6498	0.6505	Ave		0.6266				7.1		20.0			
m,p-Xylene	1.3697 1.2960	1.3825 1.2376	1.4556	1.3931	1.3516	Ave		1.3552			0.1000	5.2		20.0			
o-Xylene	1.3156 1.2341	1.2602 1.1624	1.3422	1.3018	1.2614	Ave		1.2682			0.3000	4.7		20.0			
Styrene	2.2408 2.1761	2.1846 2.0126	2.3575	2.2830	2.2368	Ave		2.2131			0.3000	4.9		20.0			
Bromoform	+++++ 0.4975	0.3050 0.4931	0.3539	0.3960	0.4302	Ave		0.4126			0.1000	18.6		20.0			
Isopropylbenzene	3.4909 2.9759	3.4156 2.6142	3.6639	3.4466	3.2222	Ave		3.2613			0.1000	11.0		20.0			
1,1,2,2-Tetrachloroethane	0.8540 0.8161	0.8113 0.7437	0.8698	0.8796	0.7712	Ave		0.8208			0.3000	6.2		20.0			
Bromobenzene	0.9579 0.8446	0.9284 0.7947	0.9717	0.9255	0.8713	Ave		0.8992				7.2		20.0			
trans-1,4-Dichloro-2-butene	0.2670 0.2806	0.2470 0.2520	0.2846	0.2936	0.2638	Ave		0.2698				6.4		20.0			
N-Propylbenzene	4.1652 3.3970	4.1069 2.8389	4.3071	4.0588	3.7452	Ave		3.8027				13.8		20.0			
1,2,3-Trichloropropane	0.3042 0.2754	0.2844 0.2500	0.3011	0.2964	0.2595	Ave		0.2816				7.5		20.0			
2-Chlorotoluene	0.8325 0.7648	0.8273 0.7242	0.8910	0.8444	0.7961	Ave		0.8115				6.8		20.0			
1,3,5-Trimethylbenzene	3.0130 2.5878	2.9103 2.2815	3.1285	2.9661	2.7922	Ave		2.8113				10.3		20.0			
4-Chlorotoluene	0.9149 0.8263	0.8987 0.7877	0.9463	0.9051	0.8647	Ave		0.8777				6.3		20.0			
tert-Butylbenzene	0.6703 0.5952	0.6601 0.5666	0.7098	0.6647	0.6323	Ave		0.6427				7.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0903 2.6863	3.0063 2.3320	3.1880	3.0367	2.8577	Ave		2.8853				10.2		20.0			
sec-Butylbenzene	3.8237 3.1849	3.7393 2.6643	4.0399	3.7699	3.5086	Ave		3.5329				13.3		20.0			
4-Isopropyltoluene	3.2157 2.7665	3.1543 2.3594	3.4030	3.2068	3.0169	Ave		3.0175				11.6		20.0			
1,3-Dichlorobenzene	1.7566 1.5857	1.7358 1.4501	1.8161	1.7390	1.6522	Ave		1.6765			0.6000	7.4		20.0			
1,4-Dichlorobenzene	1.8801 1.6003	1.7775 1.4740	1.8623	1.7622	1.6825	Ave		1.7198			0.5000	8.5		20.0			
n-Butylbenzene	2.8611 2.4926	2.8658 2.1492	3.0424	2.9068	2.7161	Ave		2.7191				11.2		20.0			
1,2-Dichlorobenzene	1.6160 1.4706	1.5845 1.3482	1.6899	1.6020	1.5027	Ave		1.5448			0.4000	7.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1790	0.1296 0.1661	0.1553	0.1673	0.1514	Ave		0.1581			0.0500	10.8		20.0			
1,2,4-Trichlorobenzene	1.0548 1.0078	1.0196 0.9219	1.1327	1.0779	1.0033	Ave		1.0312			0.2000	6.4		20.0			
Hexachlorobutadiene	0.6270 0.5814	0.6334 0.5328	0.7073	0.6588	0.6055	Ave		0.6209				9.0		20.0			
Naphthalene	2.3276 2.4827	2.2857 2.0897	2.6302	2.6535	2.3625	Ave		2.4046				8.3		20.0			
1,2,3-Trichlorobenzene	0.9480 0.9397	0.9399 0.8615	1.0514	0.9910	0.9210	Ave		0.9504				6.2		20.0			
Dibromofluoromethane (Surr)	1.2187 1.2435	1.2417 1.2311	1.2241	1.2227	1.2093	Ave		1.2273				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7935 0.8045	0.8093 0.7769	0.8028	0.7921	0.7796	Ave		0.7941				1.6		20.0			
Toluene-d8 (Surr)	2.2827 2.3283	2.2632 2.3452	2.2908	2.3097	2.3202	Ave		2.3057				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.7737 0.7930	0.7726 0.7905	0.7693	0.7720	0.7844	Ave		0.7793				1.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	23831 970484	48159 1870641	105330	206475	506261	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	21718 760112	41572 1472544	82833	166326	394187	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	20186 735842	40739 1460875	84472	163031	389073	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	24832 770039	45648 1501829	95178	182936	423068	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	12361 395241	23689 828372	46341	90326	213610	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	10146 308882	18972 651639	37289	72955	170887	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	25301 878377	48486 1746904	106200	197200	473505	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	26902 959534	54119 1917931	108956	214653	523065	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	+++++ 547110	33804 1152714	59617	129494	280286	+++++ 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	+++++ 828749	40495 1515180	79379	170914	356028	+++++ 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	20947 792353	39313 1527242	86228	169969	402106	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	21368 773145	40306 1499517	84002	168177	395634	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	45161 1728336	78544 3053604	167072	352639	722105	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	37031 1438044	69715 2778637	148837	299322	725238	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	66008 2575399	126834 4913516	270635	544294	1323471	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Ave	34224 1254658	64320 2394553	133169	263471	646522	2.50 100	5.00 200	10.0	20.0	50.0
Methyl acetate	FB	Ave	32395 1332522	56347 2421323	117597	262706	573139	5.00 200	10.0 400	20.0	40.0	100
Methylene Chloride	FB	Lin1	+++++ 944214	83165 1805747	131887	225835	486638	+++++ 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	23486 1117217	44988 1866652	96196	208452	412929	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	74402 2877699	138132 5311617	283570	582644	1359349	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	24815 906313	47384 1754514	94079	187099	457275	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	85112 3233654	146892 5657949	304693	660754	1419339	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 1379552	79146 2666829	153106	296489	715625	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	91090 3563205	165950 6281626	341048	724214	1692385	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	41683 1563343	80637 3001328	160649	322652	787529	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	36237 1347299	67058 2599387	138488	282513	684267	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	+++++ 2352803	96102 4155648	212748	468442	980697	+++++ 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	27447 991447	51716 1931790	102786	207216	504389	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	13021 489249	23529 939948	48262	97304	237384	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	+++++ 573450	24742 1013003	51417	114020	232108	+++++ 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	46033 1613060	84108 3093755	168110	334961	810041	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	37052 1395790	68627 2703792	143290	289982	704160	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	37516 1378722	70406 2634538	149969	293518	706363	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	33999 1278846	66464 2445117	135631	269214	651263	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	28510 1243420	55718 2434358	118417	240591	613133	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	+++++ 1196074	41826 2077352	92881	216612	453518	+++++ 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	97550 3480851	184720 6414236	370070	738740	1782362	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	38797 1357413	68416 2549664	137370	277563	662378	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	40409 1327032	70196 2609005	144320	285334	694204	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	25588 932749	48681 1808222	98482	194597	472358	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	43865 1652250	84116 3180641	175476	350475	842987	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	22178 833564	42261 1630061	84064	169875	417075	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 218431	7688 391740	19287	40837	90905	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	14978 588328	27823 1123988	56360	118746	280274	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	28383 1249367	54701 2437257	113083	237447	601975	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	12728 551747	24289 1054234	51220	106449	254924	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	35984 1482439	68689 2866859	138801	289513	725446	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	109354 4269190	196305 7165809	418620	910358	1916594	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	63252 2239990	117243 4253584	235124	467633	1141602	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	33238 1441202	63557 2775351	132381	273052	691569	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	30048 1261468	53807 2367523	113419	240938	575124	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	17545 665976	32387 1273909	65178	134553	317622	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	28159 1007514	52022 1939047	106454	211396	513159	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	36952 1412885	68058 2676910	138230	285150	683791	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	83388 3363984	147843 5734469	321433	726871	1527085	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Ave	+++++ 931528	33375 1837784	72801	161803	423837	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	21533 874036	40715 1660134	81911	171502	410248	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	67092 2424875	129168 4530079	255717	511957	1234720	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	116577 3953899	216574 6999358	432718	859703	2068503	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	18585 869371	37285 1692523	80719	164796	417123	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	46087 1703198	89677 3286708	178145	353316	866603	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	44264 1621772	81745 3086903	164273	330183	808767	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	75396 2859737	141701 5344805	288535	579043	1434229	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 653783	19782 1309515	43312	100445	275817	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	110494 3954109	208829 7035681	425966	843949	2047429	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	27032 1084375	49605 2001615	101118	215385	490044	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	30319 1122268	56761 2138796	112972	226633	553615	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	8450 372857	15102 678115	33091	71882	167640	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	131839 4513616	251097 7640594	500735	993856	2379752	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	9630 365896	17388 672880	35007	72575	164888	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	26352 1016130	50581 1949120	103590	206762	505881	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	95367 3438340	177936 6140462	363718	726292	1774197	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	28958 1097958	54945 2120077	110013	221628	549425	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	21218 790782	40356 1524919	82525	162753	401791	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	97816 3569277	183803 6276260	370634	743593	1815784	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	121027 4231777	228623 7170684	469677	923130	2229369	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	101785 3675792	192857 6350065	395629	785245	1916976	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	55600 2106967	106130 3902824	211139	425814	1049816	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	59509 2126360	108676 3967003	216510	431504	1069081	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	90559 3311931	175214 5784281	353712	711785	1725818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	51151 1953969	96879 3628583	196462	392276	954818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 237848	7922 447122	18057	40957	96205	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	33387 1339108	62339 2481204	131691	263952	637529	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	19847 772533	38725 1434094	82232	161308	384742	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	73674 3298812	139746 5624161	305790	649744	1501140	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	30005 1248595	57466 2318537	122240	242674	585229	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	393897 398932	375428 402086	361843	379363	383697	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	256472 258094	244683 253737	237296	245754	247352	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1536086 1529884	1468002 1557059	1401827	1464478	1487663	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	520628 521062	501136 524824	470749	489515	502957	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 13:08:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0071332-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:51 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 15:02:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	98	323206	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	672926	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	633044	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	393897	50.0	49.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	256472	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	6.554	6.560	-0.006	93	1536086	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	520628	50.0	49.6	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	23831	2.50	2.33	
12 Chloromethane	50	1.991	1.985	0.006	99	21718	2.50	2.61	
13 Vinyl chloride	62	2.076	2.076	0.000	93	20186	2.50	2.48	
151 Butadiene	54	2.082	2.082	0.000	88	24832	2.50	2.74	
14 Bromomethane	94	2.368	2.362	0.006	93	12361	2.50	2.69	
15 Chloroethane	64	2.417	2.417	0.000	95	10146	2.50	2.75	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	25301	2.50	2.55	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	97	26902	2.50	2.50	
18 Ethyl ether	59	2.770	2.763	0.007	88	20899	2.50	3.35	
20 Acrolein	56	2.922	2.916	0.006	97	24741	12.5	15.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.946	2.952	-0.006	93	20947	2.50	2.49	
22 1,1-Dichloroethene	96	2.983	2.976	0.007	98	21368	2.50	2.56	
23 Acetone	43	3.031	3.025	0.006	99	45161	12.5	13.3	
25 Iodomethane	142	3.129	3.128	0.001	99	37031	2.50	2.48	
26 Carbon disulfide	76	3.183	3.183	0.000	99	66008	2.50	2.45	
27 Methyl acetate	43	3.250	3.244	0.006	74	32395	5.00	5.12	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	34224	2.50	2.57	
30 Methylene Chloride	84	3.354	3.354	0.000	90	63428	2.50	1.50	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	97	23486	25.0	23.7	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	74402	2.50	2.56	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	24815	2.50	2.58	
33 Acrylonitrile	53	3.554	3.548	0.006	99	85112	25.0	26.8	
35 Hexane	57	3.670	3.670	0.000	91	47053	2.50	3.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	91090	5.00	5.13	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	41683	2.50	2.54	
43 2-Butanone (MEK)	43	4.303	4.290	0.013	94	46597	12.5	10.6	
44 2,2-Dichloropropane	77	4.291	4.290	0.000	69	36237	2.50	2.56	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	82	27447	2.50	2.60	
48 Chlorobromomethane	128	4.503	4.503	0.000	86	13021	2.50	2.60	
49 Tetrahydrofuran	42	4.534	4.522	0.012	51	15767	5.00	5.85	M
50 Chloroform	83	4.540	4.540	0.000	93	46033	2.50	2.68	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	37052	2.50	2.54	
52 Cyclohexane	56	4.710	4.704	0.006	89	37516	2.50	2.55	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	93	33999	2.50	2.51	
55 Carbon tetrachloride	117	4.808	4.808	0.000	78	28510	2.50	2.32	
53 Isobutyl alcohol	43	4.875	4.862	0.013	94	20269	62.5	49.1	
57 Benzene	78	4.978	4.978	0.000	92	97550	2.50	2.62	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	94	38797	2.50	2.73	
59 n-Heptane	43	5.075	5.075	0.000	90	40409	2.50	2.77	
62 Trichloroethene	95	5.495	5.495	0.000	97	25588	2.50	2.58	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	43865	2.50	2.51	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	87	22178	2.50	2.55	
66 1,4-Dioxane	88	5.824	5.817	0.007	61	3066	50.0	30.6	
67 Dibromomethane	93	5.842	5.842	0.000	95	14978	2.50	2.53	
68 Dichlorobromomethane	83	5.957	5.957	0.000	98	28383	2.50	2.35	
69 2-Chloroethyl vinyl ether	63	6.158	6.164	-0.006	95	12728	2.50	2.38	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.000	95	35984	2.50	2.44	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	96	109354	12.5	12.8	
74 Toluene	92	6.621	6.620	0.001	98	63252	2.50	2.62	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	33238	2.50	2.35	
75 Ethyl methacrylate	69	6.852	6.852	0.000	74	30048	2.50	2.46	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	17545	2.50	2.56	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	28159	2.50	2.60	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	88	36952	2.50	2.55	
80 2-Hexanone	43	7.229	7.217	0.012	95	83388	12.5	12.5	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	17692	2.50	2.07	
84 Ethylene Dibromide	107	7.570	7.563	0.007	97	21533	2.50	2.47	
87 Chlorobenzene	112	8.020	8.020	0.000	96	67092	2.50	2.57	
88 Ethylbenzene	91	8.087	8.087	0.000	98	116577	2.50	2.68	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	90	18585	2.50	2.20	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	46087	2.50	2.53	
91 o-Xylene	106	8.628	8.628	0.000	96	44264	2.50	2.59	
92 Styrene	104	8.652	8.652	0.000	95	75396	2.50	2.53	
95 Bromoform	173	8.926	8.920	0.006	93	10426	2.50	1.88	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	110494	2.50	2.68	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	27032	2.50	2.60	
101 Bromobenzene	156	9.389	9.388	0.001	91	30319	2.50	2.66	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	43	8450	2.50	2.47	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	131839	2.50	2.74	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	54	9630	2.50	2.70	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	26352	2.50	2.56	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	95367	2.50	2.68	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	28958	2.50	2.61	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	21218	2.50	2.61	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	97816	2.50	2.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	94	121027	2.50	2.71	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	101785	2.50	2.66	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	96	55600	2.50	2.62	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	59509	2.50	2.73	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	90559	2.50	2.63	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	51151	2.50	2.62	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	85	4091	2.50	2.04	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	33387	2.50	2.56	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	19847	2.50	2.52	
121 Naphthalene	128	12.266	12.266	0.000	97	73674	2.50	2.42	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	30005	2.50	2.49	
S 125 1,2-Dichloroethene, Total	1				0			5.18	
S 126 1,3-Dichloropropene, Total	1				0			4.79	
S 123 Total BTEX	1				0			13.0	
S 124 Xylenes, Total	1				0			5.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	2.50	Units: uL	
GAS CORP mix_00280	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 09-May-2018 10:46:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D

Injection Date: 08-May-2018 13:08:30 Instrument ID: HP5973F Operator ID: CDC

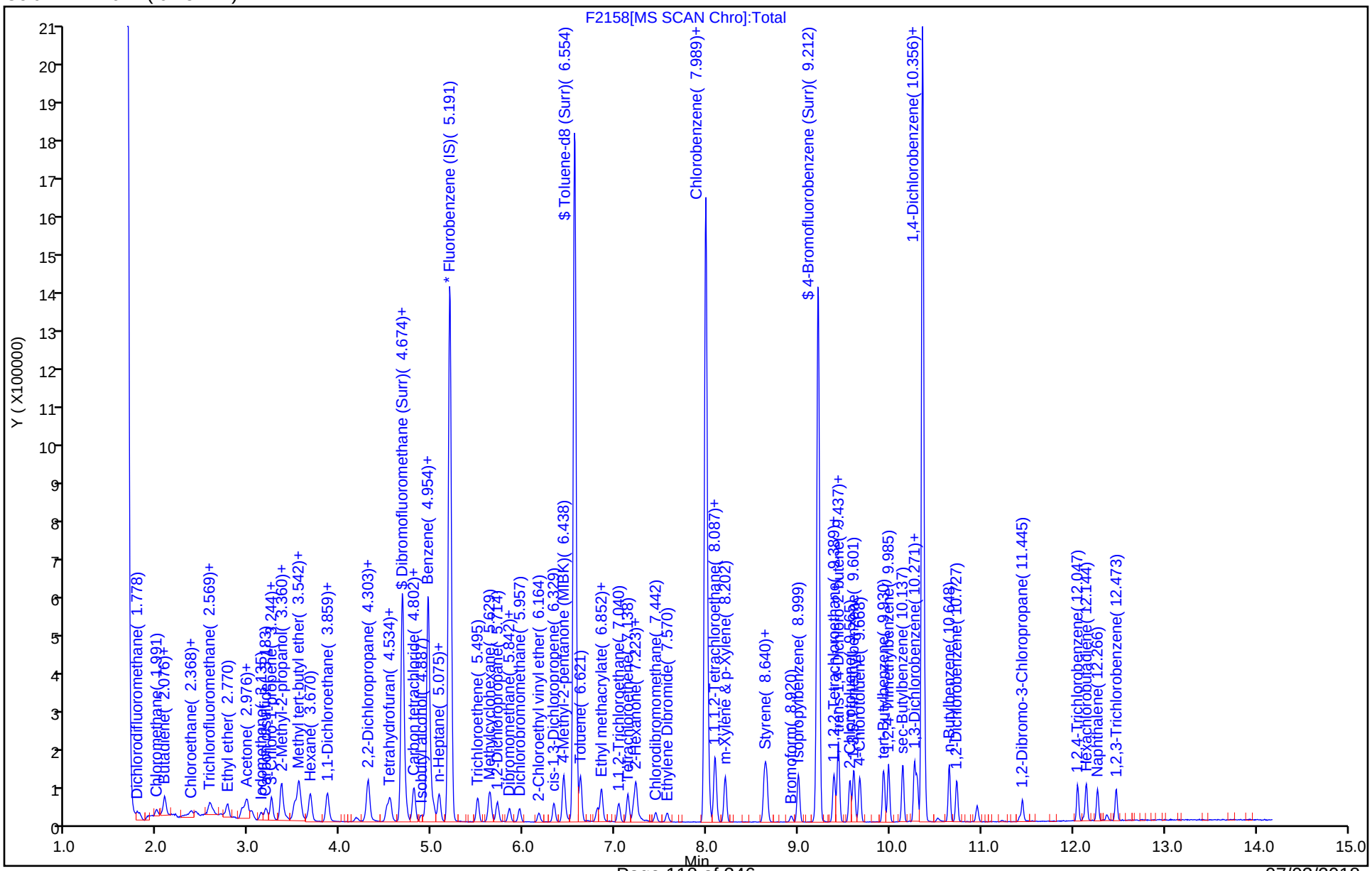
Lims ID: IC Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

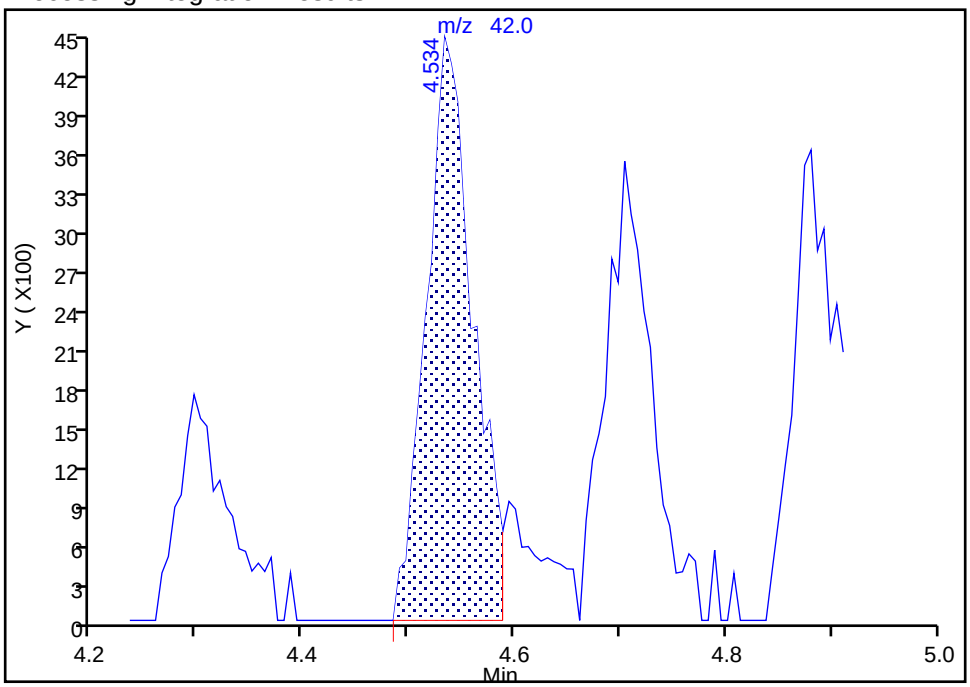
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Injection Date: 08-May-2018 13:08:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

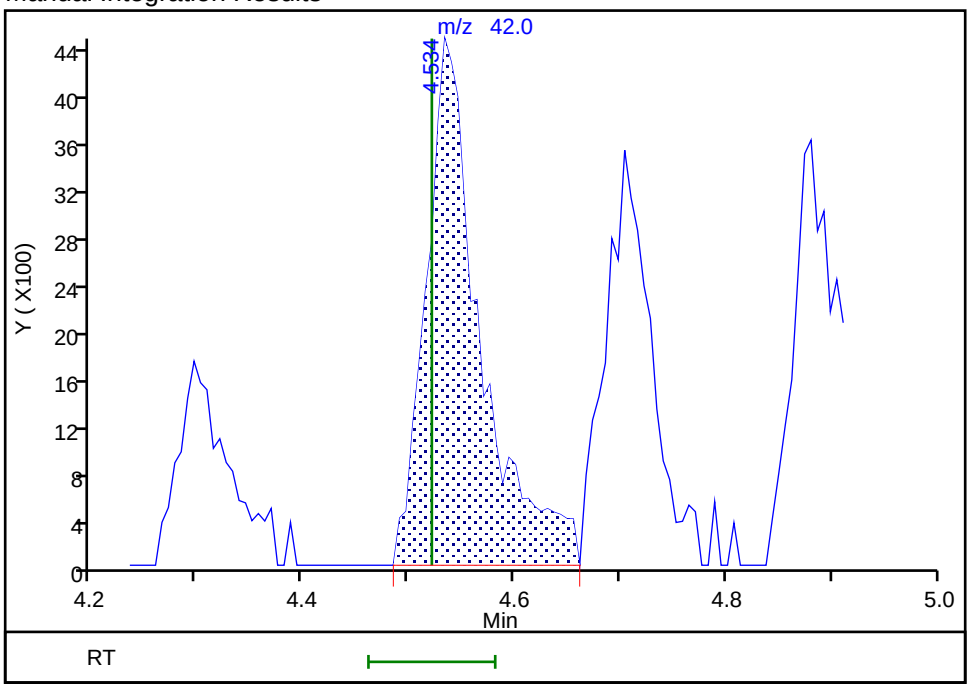
Processing Integration Results

RT: 4.53
Area: 13597
Amount: 3.217188
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 15767
Amount: 5.845259
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:33:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:33:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0071332-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:59 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:35:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	302342	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	648646	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	611401	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.674	0.006	93	375428	50.0	50.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	98	244683	50.0	51.0	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1468002	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	501136	50.0	49.6	
10 Dichlorodifluoromethane	85	1.821	1.808	0.013	99	48159	5.00	5.04	
12 Chloromethane	50	2.003	1.985	0.018	100	41572	5.00	5.34	
13 Vinyl chloride	62	2.088	2.076	0.012	97	40739	5.00	5.34	
151 Butadiene	54	2.088	2.082	0.006	89	45648	5.00	5.38	
14 Bromomethane	94	2.374	2.362	0.012	92	23689	5.00	5.50	M
15 Chloroethane	64	2.423	2.417	0.006	97	18972	5.00	5.50	
16 Dichlorofluoromethane	67	2.581	2.569	0.012	96	48486	5.00	5.22	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	95	54119	5.00	5.38	
18 Ethyl ether	59	2.776	2.763	0.013	87	33804	5.00	5.79	
20 Acrolein	56	2.928	2.916	0.012	98	40495	25.0	26.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	94	39313	5.00	5.00	
22 1,1-Dichloroethene	96	2.989	2.976	0.013	99	40306	5.00	5.17	
23 Acetone	43	3.043	3.025	0.018	100	78544	25.0	24.8	
25 Iodomethane	142	3.141	3.128	0.013	100	69715	5.00	4.99	
26 Carbon disulfide	76	3.195	3.183	0.012	100	126834	5.00	5.03	
27 Methyl acetate	43	3.256	3.244	0.012	76	56347	10.0	9.52	
28 3-Chloro-1-propene	41	3.250	3.244	0.006	82	64320	5.00	5.15	
30 Methylene Chloride	84	3.360	3.354	0.006	92	83165	5.00	4.38	
31 2-Methyl-2-propanol	59	3.414	3.402	0.012	97	44988	50.0	48.6	
32 Methyl tert-butyl ether	73	3.512	3.500	0.012	94	138132	5.00	5.08	
34 trans-1,2-Dichloroethene	96	3.542	3.536	0.006	98	47384	5.00	5.28	
33 Acrylonitrile	53	3.560	3.548	0.012	98	146892	50.0	49.4	
35 Hexane	57	3.676	3.670	0.006	91	79146	5.00	5.59	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.846	0.013	98	165950	10.0	10.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	80637	5.00	5.25	
43 2-Butanone (MEK)	43	4.309	4.290	0.019	99	96102	25.0	23.3	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	87	67058	5.00	5.07	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	83	51716	5.00	5.24	
48 Chlorobromomethane	128	4.510	4.503	0.007	88	23529	5.00	5.03	
49 Tetrahydrofuran	42	4.534	4.522	0.012	52	24742	10.0	9.81	M
50 Chloroform	83	4.546	4.540	0.006	93	84108	5.00	5.23	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	68627	5.00	5.03	
52 Cyclohexane	56	4.716	4.704	0.012	89	70406	5.00	5.11	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	94	66464	5.00	5.24	
55 Carbon tetrachloride	117	4.808	4.808	0.000	74	55718	5.00	4.86	
53 Isobutyl alcohol	43	4.881	4.862	0.019	93	41826	125.0	108.3	
57 Benzene	78	4.984	4.978	0.006	94	184720	5.00	5.30	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	95	68416	5.00	5.15	
59 n-Heptane	43	5.081	5.075	0.006	88	70196	5.00	5.14	
62 Trichloroethene	95	5.495	5.495	0.000	97	48681	5.00	5.24	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	84116	5.00	5.14	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	91	42261	5.00	5.19	
66 1,4-Dioxane	88	5.842	5.817	0.025	87	7688	100.0	79.7	
67 Dibromomethane	93	5.842	5.842	0.000	95	27823	5.00	5.02	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	54701	5.00	4.83	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	24289	5.00	4.86	
72 cis-1,3-Dichloropropene	75	6.335	6.328	0.007	95	68689	5.00	4.98	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	196305	25.0	23.8	
74 Toluene	92	6.621	6.620	0.001	99	117243	5.00	5.05	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	63557	5.00	4.67	
75 Ethyl methacrylate	69	6.852	6.852	0.000	84	53807	5.00	4.57	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	32387	5.00	4.90	
81 Tetrachloroethene	166	7.144	7.138	0.006	95	52022	5.00	4.98	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	90	68058	5.00	4.86	
80 2-Hexanone	43	7.229	7.217	0.012	95	147843	25.0	23.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	33375	5.00	4.05	
84 Ethylene Dibromide	107	7.570	7.563	0.007	98	40715	5.00	4.84	
87 Chlorobenzene	112	8.020	8.020	0.000	94	129168	5.00	5.14	
88 Ethylbenzene	91	8.087	8.087	0.000	98	216574	5.00	5.17	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	37285	5.00	4.59	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	89677	5.00	5.10	
91 o-Xylene	106	8.628	8.628	0.000	96	81745	5.00	4.97	
92 Styrene	104	8.652	8.652	0.000	95	141701	5.00	4.94	
95 Bromoform	173	8.926	8.920	0.006	94	19782	5.00	3.70	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	208829	5.00	5.24	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	49605	5.00	4.94	
101 Bromobenzene	156	9.389	9.388	0.001	91	56761	5.00	5.16	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	43	15102	5.00	4.58	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	251097	5.00	5.40	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	53	17388	5.00	5.05	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	50581	5.00	5.10	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	177936	5.00	5.18	
105 4-Chlorotoluene	126	9.674	9.668	0.006	98	54945	5.00	5.12	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	40356	5.00	5.13	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	183803	5.00	5.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	228623	5.00	5.29	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	192857	5.00	5.23	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	106130	5.00	5.18	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	108676	5.00	5.17	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	175214	5.00	5.27	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	96879	5.00	5.13	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	79	7922	5.00	4.10	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	62339	5.00	4.94	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	38725	5.00	5.10	
121 Naphthalene	128	12.266	12.266	0.000	97	139746	5.00	4.75	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	57466	5.00	4.94	
S 125 1,2-Dichloroethene, Total	1				0			10.5	
S 126 1,3-Dichloropropene, Total	1				0			9.65	
S 123 Total BTEX	1				0			25.6	
S 124 Xylenes, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	5.00	Units: uL	
GAS CORP mix_00280	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

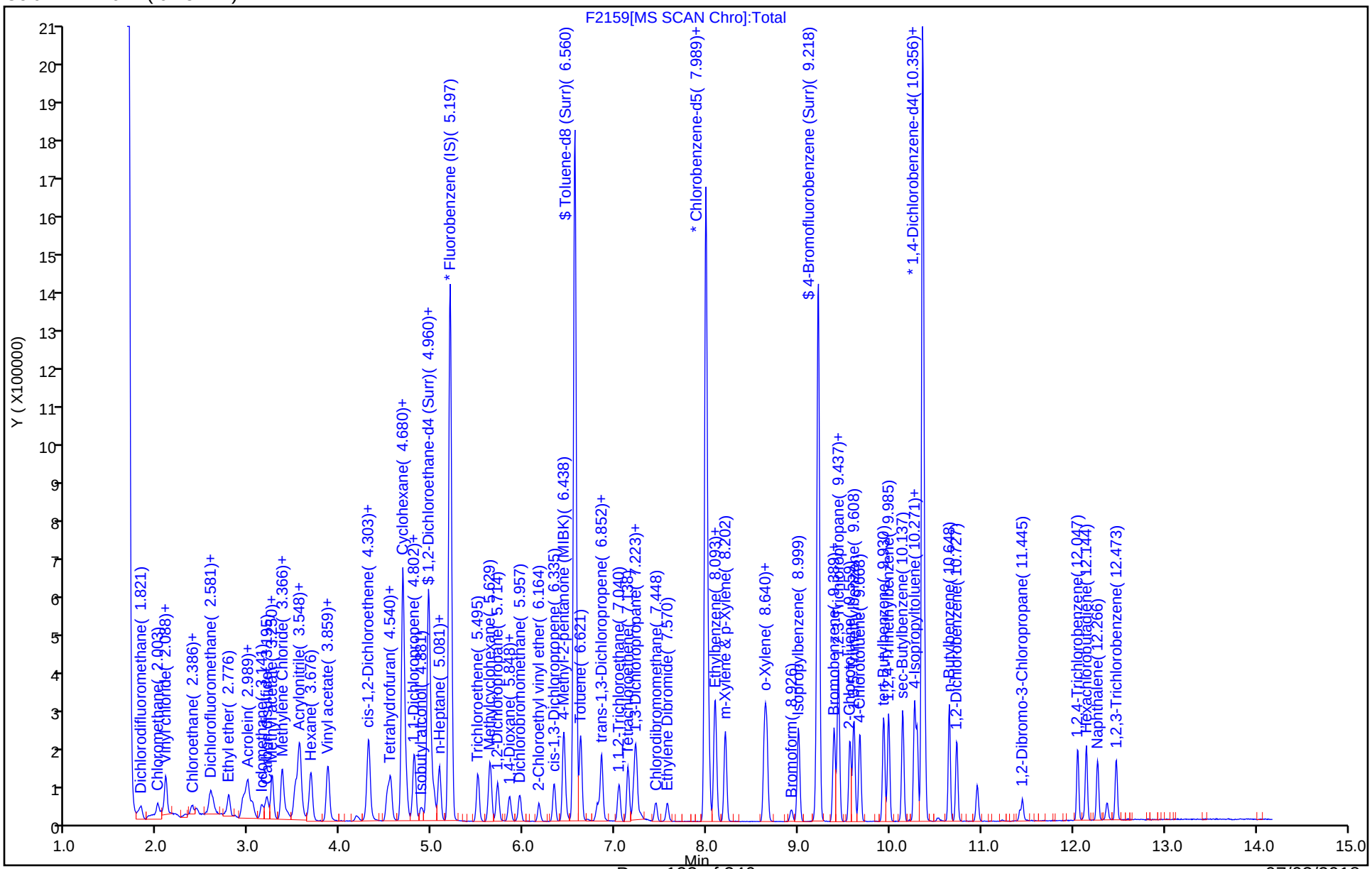
Report Date: 09-May-2018 10:47:03 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D

Injection Date:	08-May-2018 13:33:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

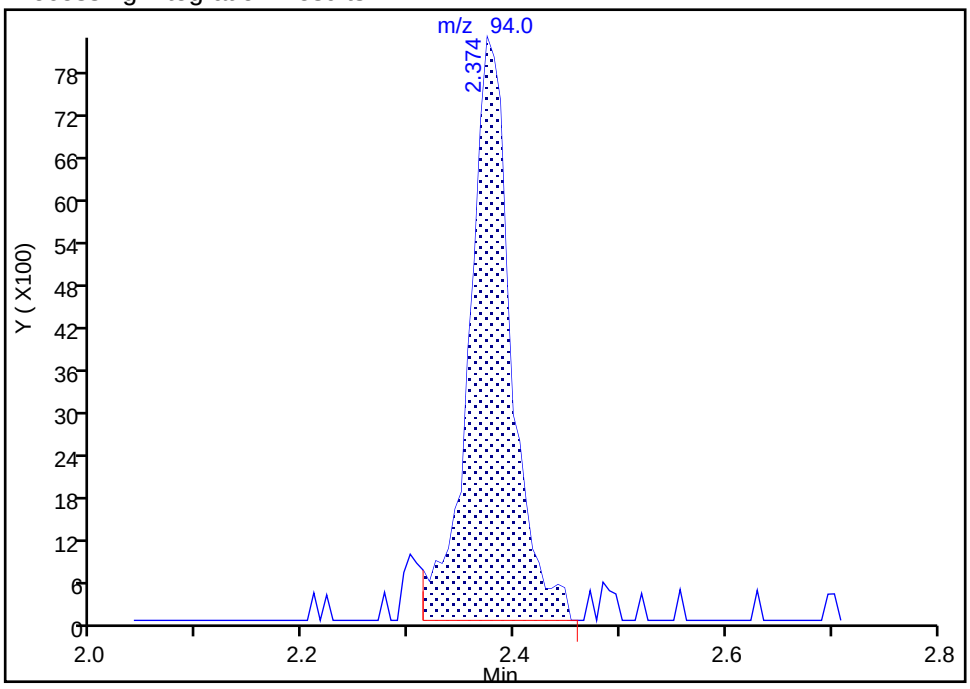
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

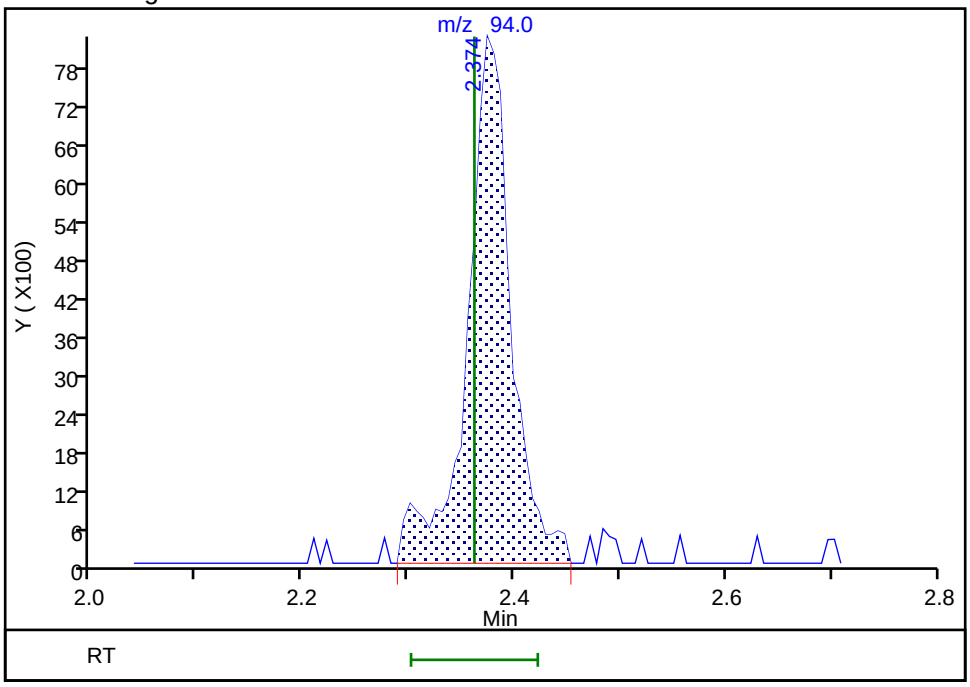
Processing Integration Results

RT: 2.37
Area: 22807
Amount: 5.370111
Amount Units: ug/kg



Manual Integration Results

RT: 2.37
Area: 23689
Amount: 5.502915
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:27
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

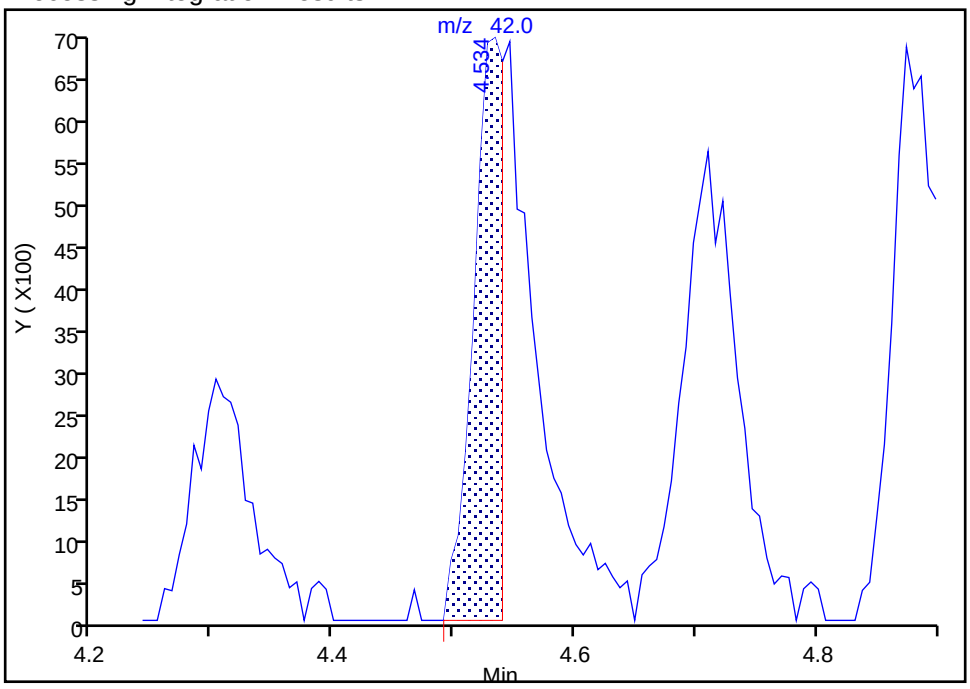
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

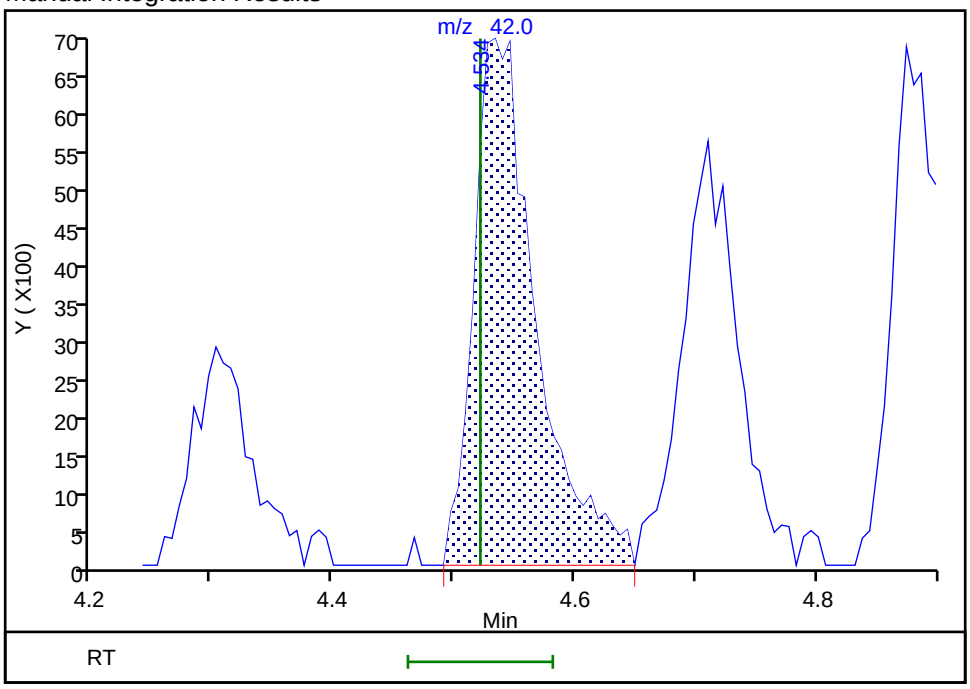
Processing Integration Results

RT: 4.53
Area: 12079
Amount: 2.751326
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 24742
Amount: 9.805515
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:59:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0071332-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:07 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:36:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	295601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	611942	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	581296	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	361843	50.0	49.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	237296	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1401827	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	470749	50.0	49.4	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	105330	10.0	11.3	
12 Chloromethane	50	1.997	1.985	0.012	100	82833	10.0	10.9	
13 Vinyl chloride	62	2.082	2.076	0.006	97	84472	10.0	11.3	
151 Butadiene	54	2.082	2.082	0.000	88	95178	10.0	11.5	
14 Bromomethane	94	2.368	2.362	0.006	91	46341	10.0	11.0	
15 Chloroethane	64	2.417	2.417	0.000	99	37289	10.0	11.1	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	106200	10.0	11.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	108956	10.0	11.1	
18 Ethyl ether	59	2.770	2.763	0.007	87	59617	10.0	10.5	
20 Acrolein	56	2.922	2.916	0.006	100	79379	50.0	52.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	86228	10.0	11.2	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	84002	10.0	11.0	
23 Acetone	43	3.031	3.025	0.006	100	167072	50.0	53.9	
25 Iodomethane	142	3.129	3.128	0.001	99	148837	10.0	10.9	
26 Carbon disulfide	76	3.189	3.183	0.006	100	270635	10.0	11.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	117597	20.0	20.3	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	133169	10.0	10.9	
30 Methylene Chloride	84	3.354	3.354	0.000	90	131887	10.0	10.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	96196	100.0	106.3	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	283570	10.0	10.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	94079	10.0	10.7	
33 Acrylonitrile	53	3.554	3.548	0.006	99	304693	100.0	104.7	
35 Hexane	57	3.676	3.670	0.006	92	153106	10.0	11.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.853	3.846	0.007	97	341048	20.0	21.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	160649	10.0	10.7	
43 2-Butanone (MEK)	43	4.297	4.290	0.007	98	212748	50.0	52.7	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	73	138488	10.0	10.7	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	82	102786	10.0	10.6	
48 Chlorobromomethane	128	4.510	4.503	0.007	95	48262	10.0	10.6	
49 Tetrahydrofuran	42	4.534	4.522	0.012	84	51417	20.0	20.8	
50 Chloroform	83	4.546	4.540	0.006	93	168110	10.0	10.7	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	95	143290	10.0	10.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	149969	10.0	11.1	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	95	135631	10.0	10.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	118417	10.0	10.6	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	92881	250.0	245.9	
57 Benzene	78	4.984	4.978	0.006	96	370070	10.0	10.9	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	97	137370	10.0	10.6	
59 n-Heptane	43	5.075	5.075	0.000	90	144320	10.0	10.8	
62 Trichloroethene	95	5.495	5.495	0.000	97	98482	10.0	10.8	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	175476	10.0	11.0	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	84064	10.0	10.6	
66 1,4-Dioxane	88	5.830	5.817	0.013	91	19287	200.0	211.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	56360	10.0	10.4	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	113083	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	51220	10.0	10.5	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	138801	10.0	10.3	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	418620	50.0	53.9	
74 Toluene	92	6.621	6.620	0.001	99	235124	10.0	10.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	132381	10.0	10.3	
75 Ethyl methacrylate	69	6.852	6.852	0.000	90	113419	10.0	10.2	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	65178	10.0	10.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	106454	10.0	10.8	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	91	138230	10.0	10.5	
80 2-Hexanone	43	7.223	7.217	0.006	96	321433	50.0	53.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	72801	10.0	9.37	
84 Ethylene Dibromide	107	7.570	7.563	0.007	99	81911	10.0	10.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	255717	10.0	10.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	432718	10.0	11.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	80719	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	178145	10.0	10.7	
91 o-Xylene	106	8.628	8.628	0.000	97	164273	10.0	10.6	
92 Styrene	104	8.652	8.652	0.000	95	288535	10.0	10.7	
95 Bromoform	173	8.926	8.920	0.006	96	43312	10.0	8.58	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	425966	10.0	11.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	101118	10.0	10.6	
101 Bromobenzene	156	9.389	9.388	0.001	93	112972	10.0	10.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	62	33091	10.0	10.5	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	500735	10.0	11.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	83	35007	10.0	10.7	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	103590	10.0	11.0	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	363718	10.0	11.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	110013	10.0	10.8	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	82525	10.0	11.0	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	370634	10.0	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	469677	10.0	11.4	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	395629	10.0	11.3	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	211139	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	216510	10.0	10.8	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	353712	10.0	11.2	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	196462	10.0	10.9	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	82	18057	10.0	9.82	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	131691	10.0	11.0	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	82232	10.0	11.4	
121 Naphthalene	128	12.266	12.266	0.000	97	305790	10.0	10.9	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	122240	10.0	11.1	
S 125 1,2-Dichloroethene, Total	1				0			21.4	
S 126 1,3-Dichloropropene, Total	1				0			20.6	
S 123 Total BTEX	1				0			53.9	
S 124 Xylenes, Total	1				0			21.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

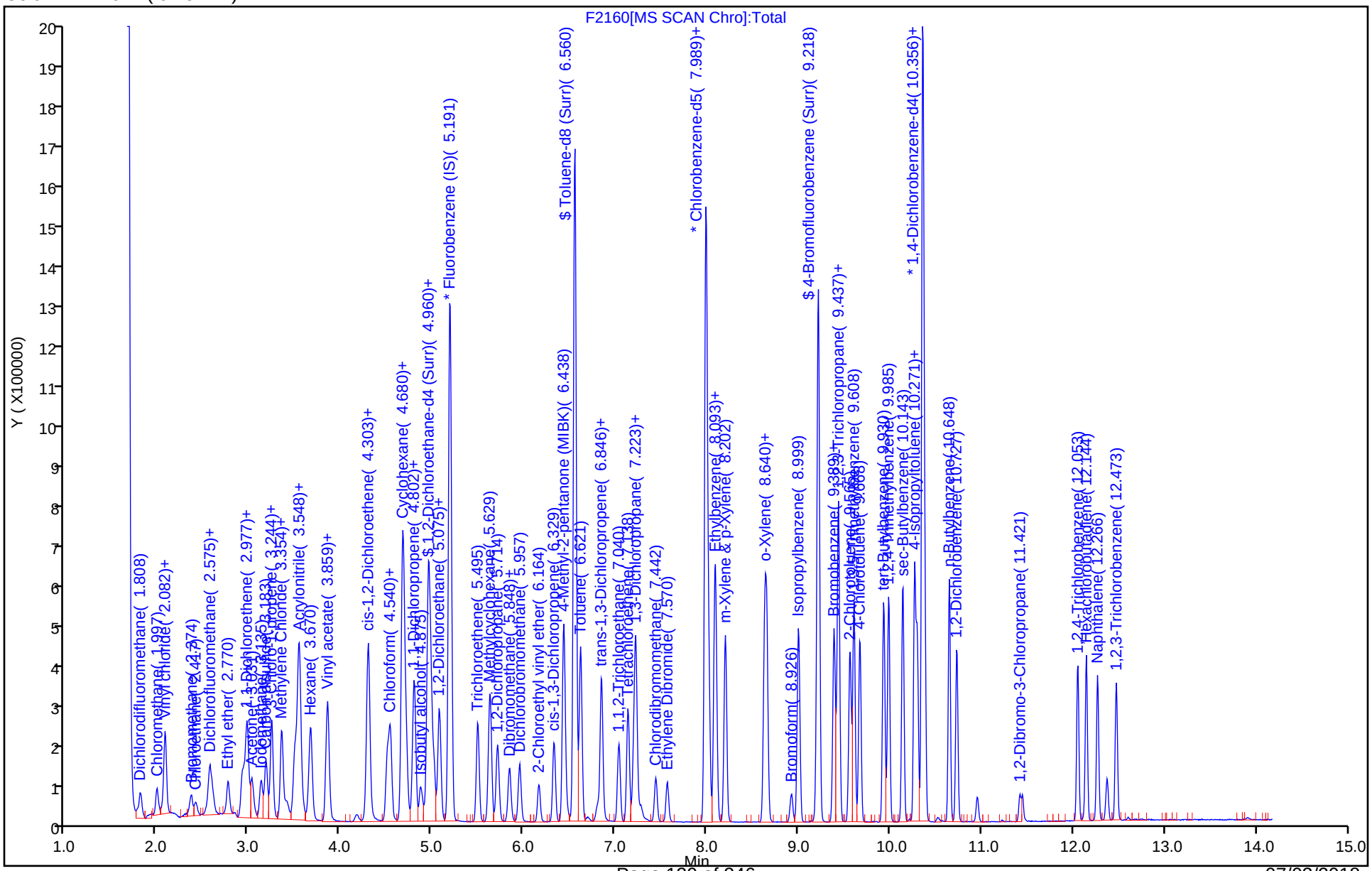
Report Date: 09-May-2018 10:47:10 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D

Injection Date:	08-May-2018 13:59:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

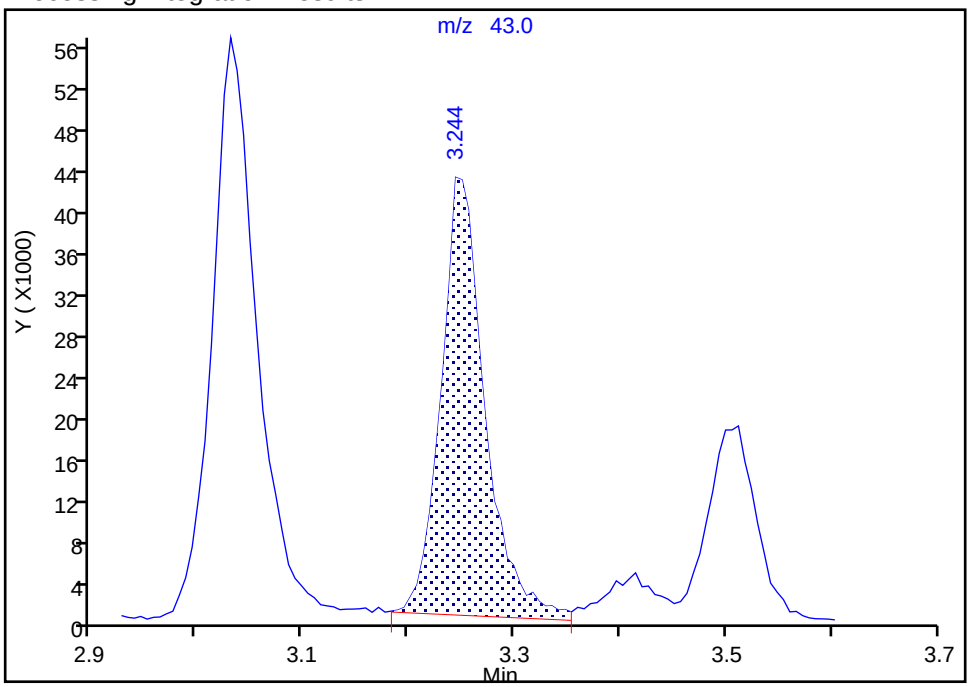
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

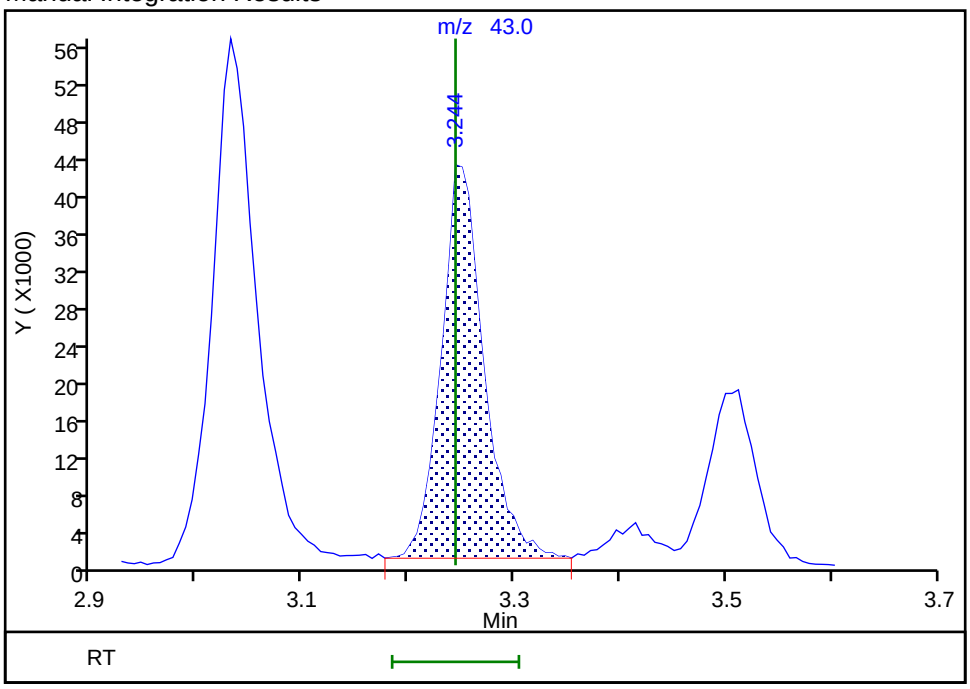
Processing Integration Results

RT: 3.24
Area: 121822
Amount: 20.488921
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 117597
Amount: 20.310834
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

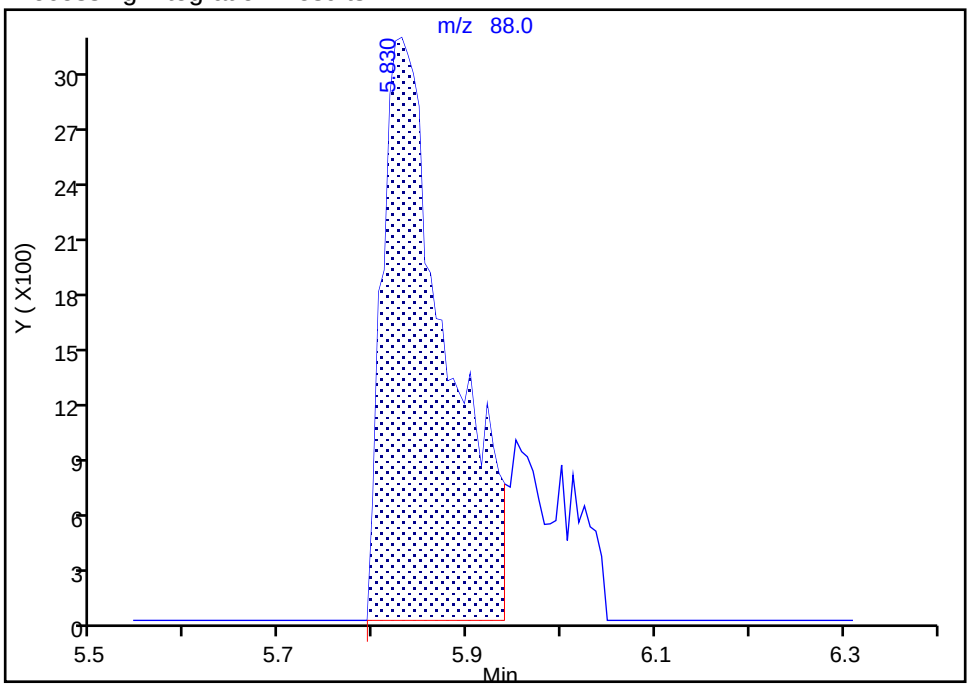
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

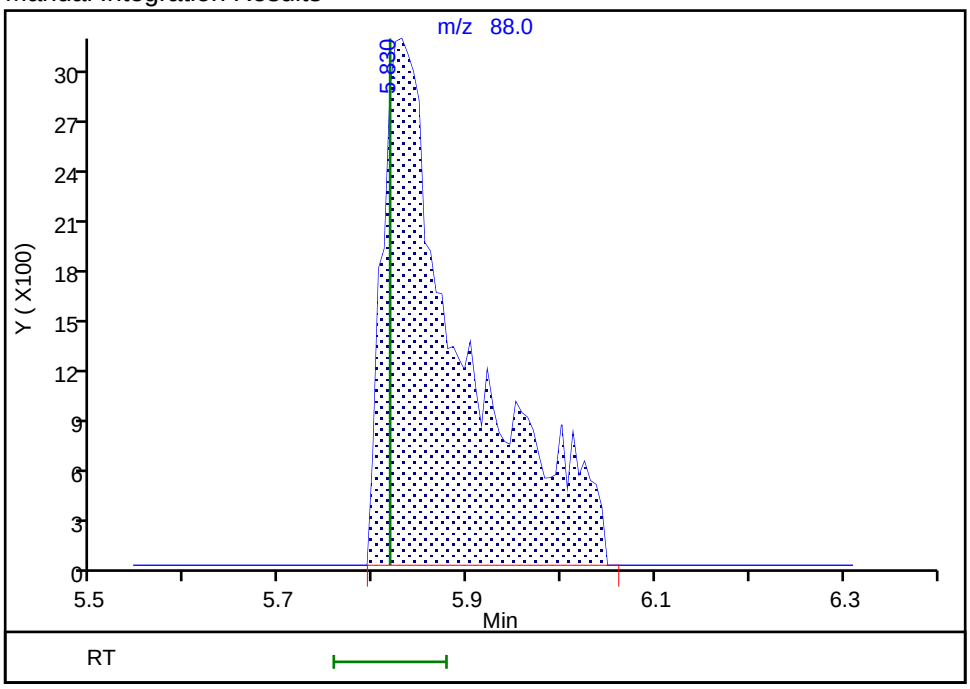
Processing Integration Results

RT: 5.83
Area: 15196
Amount: 191.9682
Amount Units: ug/kg



Manual Integration Results

RT: 5.83
Area: 19287
Amount: 211.8551
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 14:25:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0071332-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:13 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:38:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	99	310271	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	634069	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	612168	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	379363	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	245754	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1464478	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	489515	50.0	49.5	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	206475	20.0	21.1	
12 Chloromethane	50	1.991	1.985	0.006	99	166326	20.0	20.8	M
13 Vinyl chloride	62	2.082	2.076	0.006	97	163031	20.0	20.8	
151 Butadiene	54	2.082	2.082	0.000	92	182936	20.0	21.0	
14 Bromomethane	94	2.368	2.362	0.006	90	90326	20.0	20.4	
15 Chloroethane	64	2.417	2.417	0.000	99	72955	20.0	20.6	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	197200	20.0	20.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	214653	20.0	20.8	
18 Ethyl ether	59	2.770	2.763	0.007	87	129494	20.0	21.6	
20 Acrolein	56	2.922	2.916	0.006	99	170914	100.0	108.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	169969	20.0	21.1	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	168177	20.0	21.0	
23 Acetone	43	3.031	3.025	0.006	100	352639	100.0	108.3	
25 Iodomethane	142	3.129	3.128	0.001	99	299322	20.0	20.9	
26 Carbon disulfide	76	3.183	3.183	0.000	100	544294	20.0	21.0	
27 Methyl acetate	43	3.244	3.244	0.000	80	262706	40.0	43.2	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	86	263471	20.0	20.6	
30 Methylene Chloride	84	3.354	3.354	0.000	90	225835	20.0	20.9	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	100	208452	200.0	219.4	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	582644	20.0	20.9	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	187099	20.0	20.3	
33 Acrylonitrile	53	3.554	3.548	0.006	99	660754	200.0	216.4	
35 Hexane	57	3.670	3.670	0.000	91	296489	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	724214	40.0	42.5	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	322652	20.0	20.5	
43 2-Butanone (MEK)	43	4.291	4.290	0.001	98	468442	100.0	110.5	
44 2,2-Dichloropropane	77	4.291	4.290	0.001	88	282513	20.0	20.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	80	207216	20.0	20.4	
48 Chlorobromomethane	128	4.510	4.503	0.007	90	97304	20.0	20.3	
49 Tetrahydrofuran	42	4.528	4.522	0.006	84	114020	40.0	44.0	
50 Chloroform	83	4.540	4.540	0.000	94	334961	20.0	20.3	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	289982	20.0	20.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	293518	20.0	20.8	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	96	269214	20.0	20.7	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	240591	20.0	20.4	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	216612	500.0	546.4	
57 Benzene	78	4.984	4.978	0.006	97	738740	20.0	20.7	
58 1,2-Dichloroethane	62	5.015	5.014	0.000	97	277563	20.0	20.4	
59 n-Heptane	43	5.075	5.075	0.000	88	285334	20.0	20.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	194597	20.0	20.4	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	350475	20.0	20.9	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	169875	20.0	20.3	
66 1,4-Dioxane	88	5.824	5.817	0.007	93	40837	400.0	432.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	118746	20.0	20.9	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	237447	20.0	20.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	106449	20.0	20.8	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	289513	20.0	20.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	910358	100.0	113.1	
74 Toluene	92	6.621	6.620	0.001	99	467633	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	273052	20.0	20.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	240938	20.0	21.0	
79 1,1,2-Trichloroethane	83	7.034	7.040	-0.006	93	134553	20.0	20.8	
81 Tetrachloroethene	166	7.144	7.138	0.006	97	211396	20.0	20.7	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	97	285150	20.0	20.8	
80 2-Hexanone	43	7.223	7.217	0.006	97	726871	100.0	115.6	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	161803	20.0	20.1	
84 Ethylene Dibromide	107	7.564	7.563	0.001	99	171502	20.0	20.8	
87 Chlorobenzene	112	8.020	8.020	0.000	96	511957	20.0	20.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	859703	20.0	21.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	164796	20.0	20.7	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	353316	20.0	20.6	
91 o-Xylene	106	8.628	8.628	0.000	96	330183	20.0	20.5	
92 Styrene	104	8.652	8.652	0.000	94	579043	20.0	20.6	
95 Bromoform	173	8.920	8.920	0.000	96	100445	20.0	19.2	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	843949	20.0	21.1	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	215385	20.0	21.4	
101 Bromobenzene	156	9.389	9.388	0.001	93	226633	20.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	60	71882	20.0	21.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	993856	20.0	21.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	72575	20.0	21.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	206762	20.0	20.8	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	726292	20.0	21.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	221628	20.0	20.6	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	162753	20.0	20.7	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	743593	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	923130	20.0	21.3	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	785245	20.0	21.3	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	97	425814	20.0	20.7	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	431504	20.0	20.5	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	711785	20.0	21.4	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	392276	20.0	20.7	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	84	40957	20.0	21.2	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	263952	20.0	20.9	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	161308	20.0	21.2	
121 Naphthalene	128	12.266	12.266	0.000	97	649744	20.0	22.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	94	242674	20.0	20.9	
S 125 1,2-Dichloroethene, Total	1				0			40.7	
S 126 1,3-Dichloropropene, Total	1				0			41.0	
S 123 Total BTEX	1				0			103.3	
S 124 Xylenes, Total	1				0			41.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

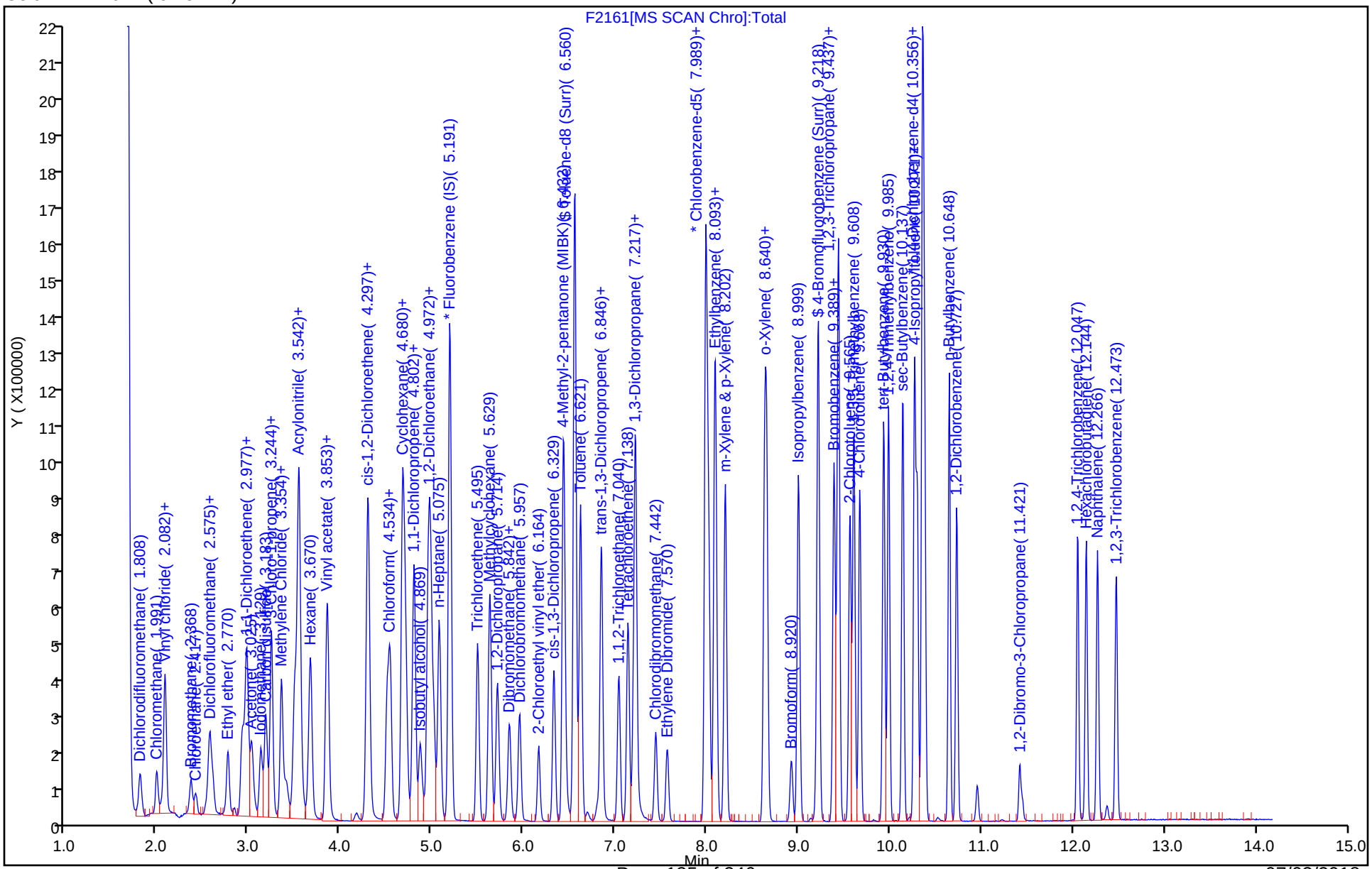
Report Date: 09-May-2018 10:47:18 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D

Injection Date:	08-May-2018 14:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

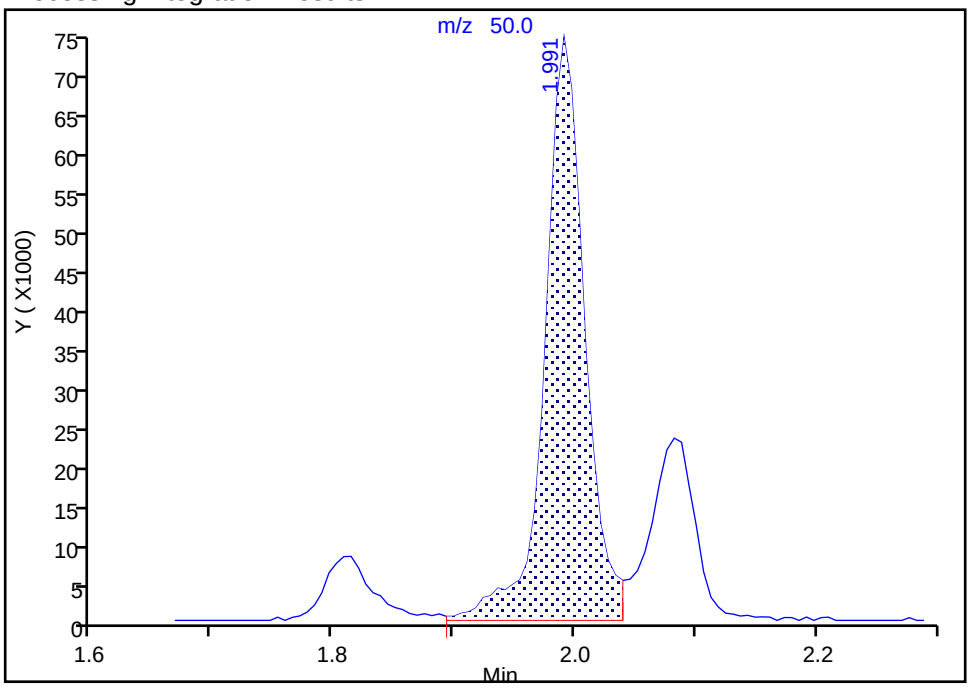
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

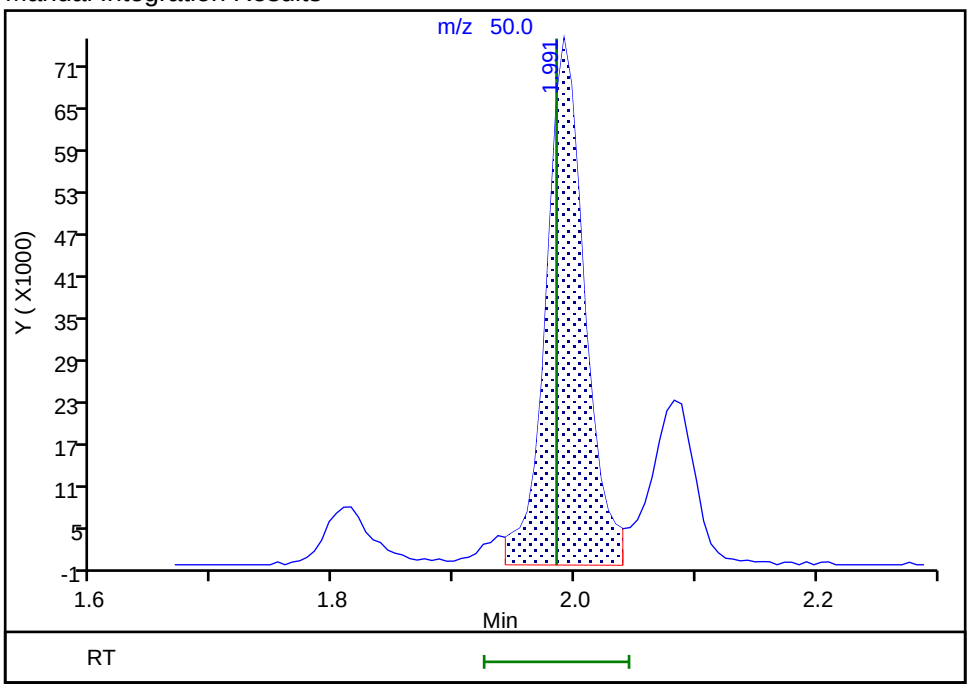
Processing Integration Results

RT: 1.99
Area: 171444
Amount: 21.356586
Amount Units: ug/kg



Manual Integration Results

RT: 1.99
Area: 166326
Amount: 20.813826
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

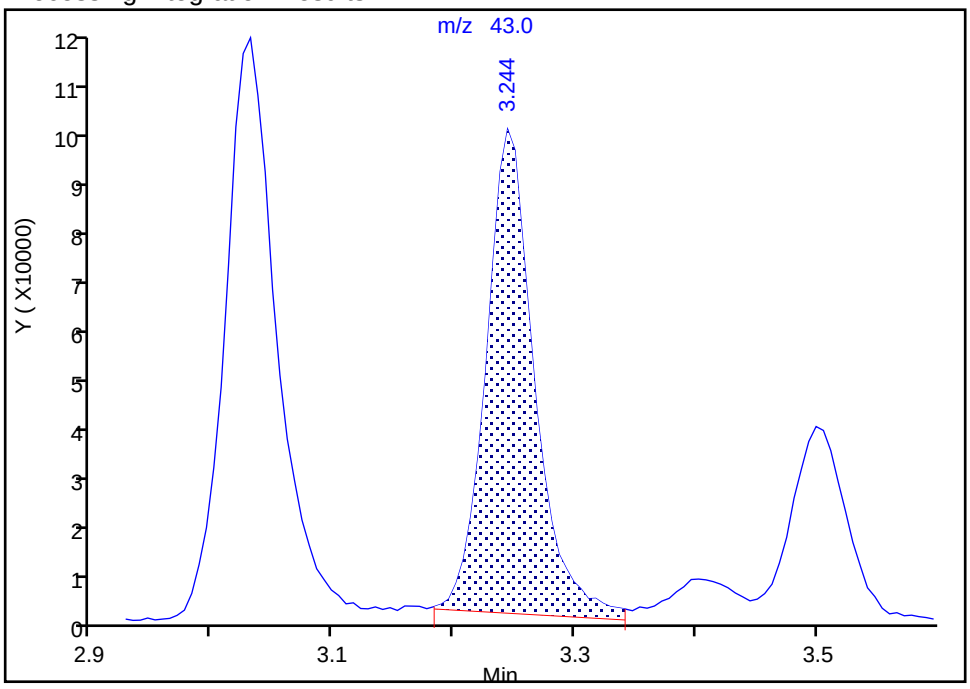
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

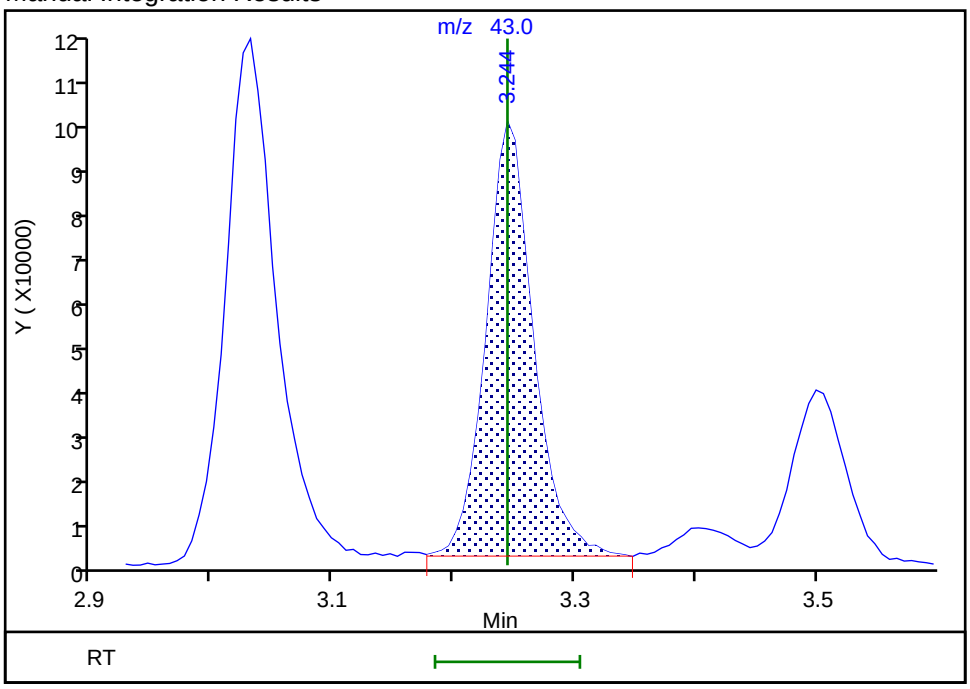
Processing Integration Results

RT: 3.24
Area: 270991
Amount: 43.643834
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 262706
Amount: 43.228108
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

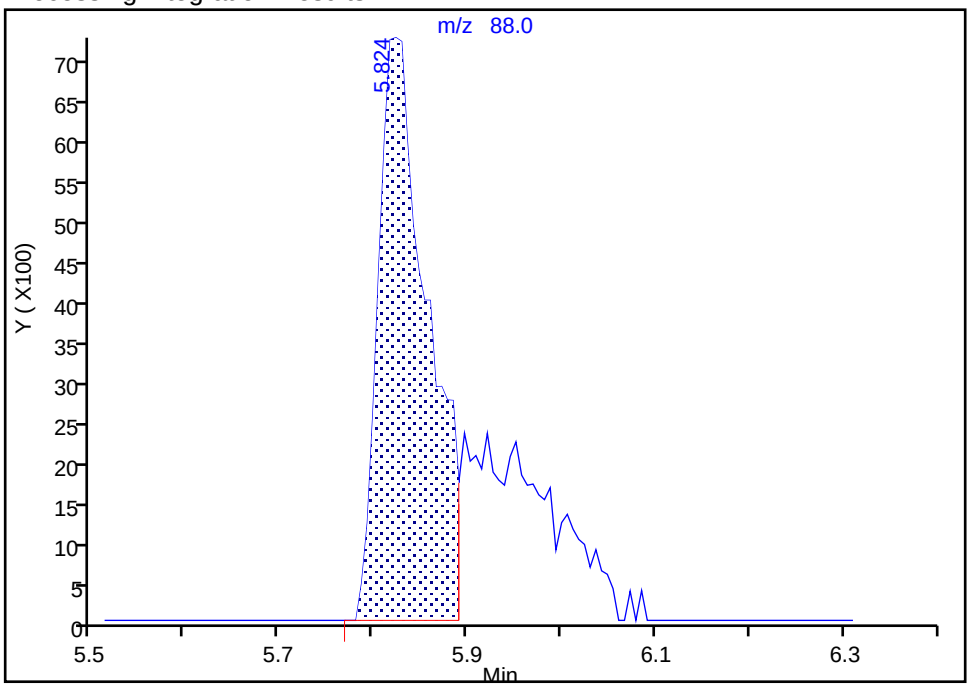
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

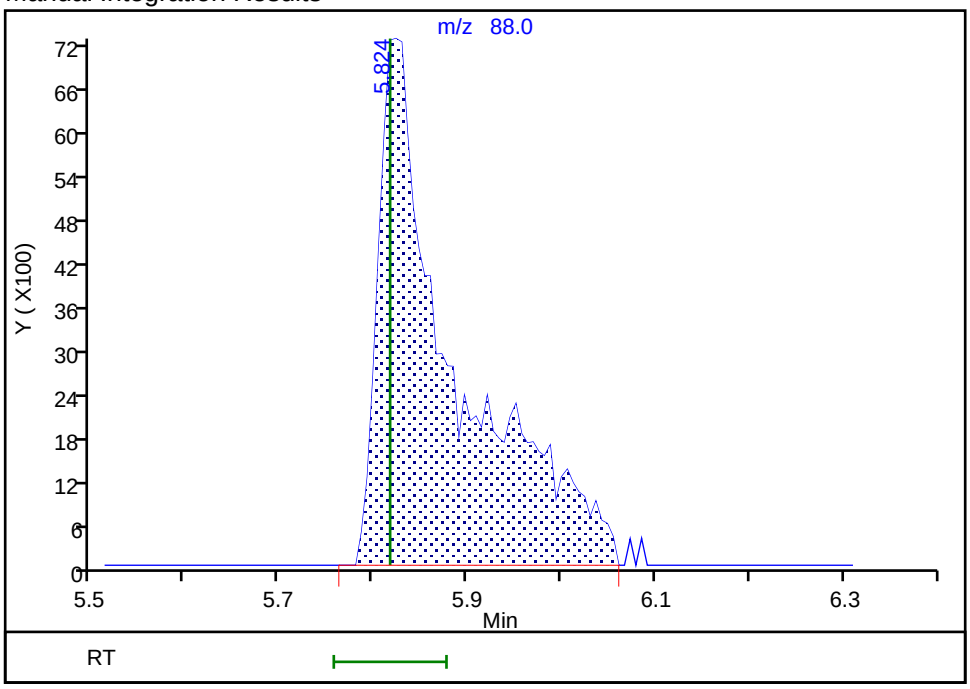
Processing Integration Results

RT: 5.82
Area: 26408
Amount: 296.9586
Amount Units: ug/kg



Manual Integration Results

RT: 5.82
Area: 40837
Amount: 432.9143
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:38:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-May-2018 14:50:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0071332-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:21 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:20:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	317300	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	641190	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	635410	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	383697	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	98	247352	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	94	1487663	50.0	50.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	502957	50.0	50.3	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	506261	50.0	50.5	
12 Chloromethane	50	1.985	1.985	0.000	99	394187	50.0	48.2	
13 Vinyl chloride	62	2.076	2.076	0.000	97	389073	50.0	48.6	
151 Butadiene	54	2.082	2.082	0.000	89	423068	50.0	47.6	
14 Bromomethane	94	2.362	2.362	0.000	91	213610	50.0	47.3	
15 Chloroethane	64	2.417	2.417	0.000	100	170887	50.0	47.2	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	473505	50.0	48.6	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	523065	50.0	49.6	
18 Ethyl ether	59	2.763	2.763	0.000	87	280286	50.0	45.8	
20 Acrolein	56	2.916	2.916	0.000	100	356028	250.0	220.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	402106	50.0	48.8	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	395634	50.0	48.3	
23 Acetone	43	3.025	3.025	0.000	99	722105	250.0	216.8	
25 Iodomethane	142	3.128	3.128	0.000	100	725238	50.0	49.4	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1323471	50.0	50.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	573139	100.0	92.2	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	646522	50.0	49.4	
30 Methylene Chloride	84	3.354	3.354	0.000	91	486638	50.0	50.4	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	412929	500.0	424.9	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	1359349	50.0	47.6	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	457275	50.0	48.5	
33 Acrylonitrile	53	3.548	3.548	0.000	98	1419339	500.0	454.5	
35 Hexane	57	3.670	3.670	0.000	92	715625	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	1692385	100.0	97.2	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	787529	50.0	48.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	97	980697	250.0	226.3	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	72	684267	50.0	49.3	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	504389	50.0	48.7	
48 Chlorobromomethane	128	4.503	4.503	0.000	93	237384	50.0	48.4	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	232108	100.0	87.7	
50 Chloroform	83	4.540	4.540	0.000	93	810041	50.0	48.0	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	98	704160	50.0	49.2	
52 Cyclohexane	56	4.704	4.704	0.000	88	706363	50.0	48.9	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	97	651263	50.0	48.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	98	613133	50.0	50.9	
53 Isobutyl alcohol	43	4.862	4.862	0.000	94	453518	1250.0	1118.6	
57 Benzene	78	4.978	4.978	0.000	97	1782362	50.0	48.8	
58 1,2-Dichloroethane	62	5.014	5.014	0.000	97	662378	50.0	47.5	
59 n-Heptane	43	5.075	5.075	0.000	88	694204	50.0	48.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	472358	50.0	48.5	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	842987	50.0	49.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	417075	50.0	48.8	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	90905	1000.0	953.0	
67 Dibromomethane	93	5.842	5.842	0.000	94	280274	50.0	48.2	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	601975	50.0	50.7	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	254924	50.0	48.6	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	95	725446	50.0	50.1	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	1916594	250.0	235.4	
74 Toluene	92	6.620	6.620	0.000	99	1141602	50.0	49.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	691569	50.0	51.4	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	575124	50.0	49.5	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	317622	50.0	48.6	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	513159	50.0	49.7	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	683791	50.0	49.4	
80 2-Hexanone	43	7.217	7.217	0.000	94	1527085	250.0	240.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	423837	50.0	52.1	
84 Ethylene Dibromide	107	7.563	7.563	0.000	99	410248	50.0	49.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	1234720	50.0	49.7	
88 Ethylbenzene	91	8.087	8.087	0.000	98	2068503	50.0	50.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	417123	50.0	51.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	866603	50.0	49.9	
91 o-Xylene	106	8.628	8.628	0.000	96	808767	50.0	49.7	
92 Styrene	104	8.652	8.652	0.000	94	1434229	50.0	50.5	
95 Bromoform	173	8.920	8.920	0.000	96	275817	50.0	52.1	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	2047429	50.0	49.4	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	76	490044	50.0	47.0	
101 Bromobenzene	156	9.388	9.388	0.000	93	553615	50.0	48.4	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	57	167640	50.0	48.9	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2379752	50.0	49.2	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	79	164888	50.0	46.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	505881	50.0	49.1	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	1774197	50.0	49.7	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	549425	50.0	49.3	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	401791	50.0	49.2	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1815784	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	95	2229369	50.0	49.7	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	1916976	50.0	50.0	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	1049816	50.0	49.3	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	1069081	50.0	48.9	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1725818	50.0	49.9	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	954818	50.0	48.6	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	86	96205	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	637529	50.0	48.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	384742	50.0	48.8	
121 Naphthalene	128	12.266	12.266	0.000	97	1501140	50.0	49.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	585229	50.0	48.5	

Reagents:

F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent
8260 CORP mix_00125	Amount Added: 25.00	Units: uL	
GAS CORP mix_00280	Amount Added: 25.00	Units: uL	

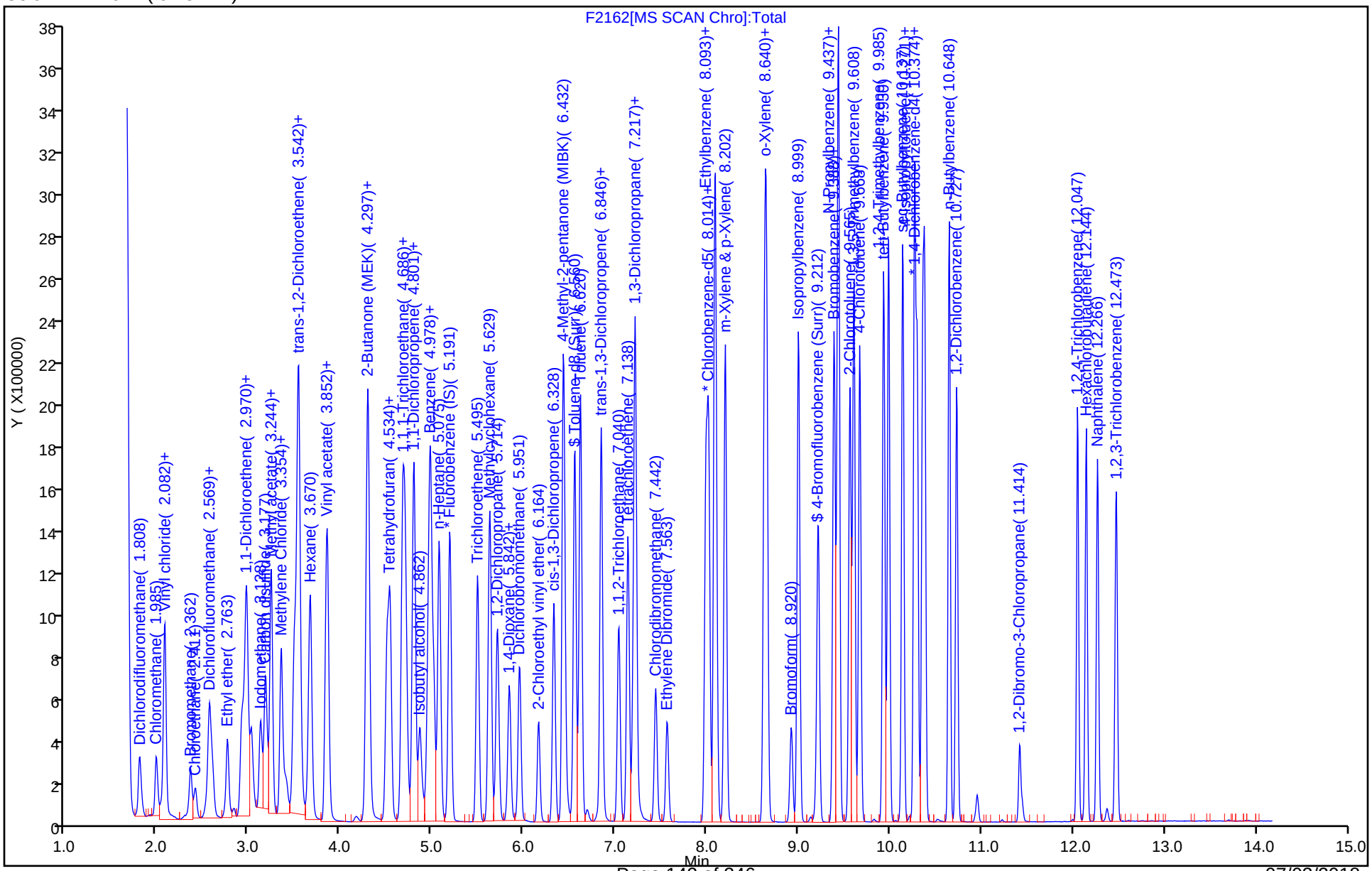
Report Date: 09-May-2018 10:47:24 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D

Injection Date:	08-May-2018 14:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 15:15:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0071332-011
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:27 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:40:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	320803	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	657089	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	664347	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	398932	50.0	50.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	95	258094	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1529884	50.0	50.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	521062	50.0	50.9	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	970484	100.0	95.8	
12 Chloromethane	50	1.991	1.985	0.006	99	760112	100.0	92.0	
13 Vinyl chloride	62	2.082	2.076	0.006	98	735842	100.0	90.9	
151 Butadiene	54	2.088	2.082	0.006	89	770039	100.0	85.6	
14 Bromomethane	94	2.362	2.362	0.000	90	395241	100.0	86.5	M
15 Chloroethane	64	2.417	2.417	0.000	99	308882	100.0	84.4	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	878377	100.0	89.1	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	959534	100.0	89.9	
18 Ethyl ether	59	2.763	2.763	0.000	86	547110	100.0	88.4	
20 Acrolein	56	2.922	2.916	0.006	100	828749	500.0	507.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	792353	100.0	95.0	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	99	773145	100.0	93.4	
23 Acetone	43	3.025	3.025	0.000	100	1728336	500.0	513.3	
25 Iodomethane	142	3.128	3.128	0.000	100	1438044	100.0	97.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	2575399	100.0	96.3	
27 Methyl acetate	43	3.244	3.244	0.000	97	1332522	200.0	212.1	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	1254658	100.0	94.8	
30 Methylene Chloride	84	3.354	3.354	0.000	90	944214	100.0	102.0	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	1117217	1000.0	1137.1	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	2877699	100.0	99.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	906313	100.0	95.1	
33 Acrylonitrile	53	3.548	3.548	0.000	98	3233654	1000.0	1024.2	
35 Hexane	57	3.670	3.670	0.000	91	1379552	100.0	91.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	3563205	200.0	202.3	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	1563343	100.0	95.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	98	2352803	500.0	536.9	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	88	1347299	100.0	95.9	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	79	991447	100.0	94.6	
48 Chlorobromomethane	128	4.503	4.503	0.000	89	489249	100.0	98.6	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	573450	200.0	214.2	
50 Chloroform	83	4.540	4.540	0.000	93	1613060	100.0	94.6	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	1395790	100.0	96.5	
52 Cyclohexane	56	4.710	4.704	0.006	88	1378722	100.0	94.3	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	97	1278846	100.0	95.0	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	1243420	100.0	102.1	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	1196074	2500.0	2917.8	
57 Benzene	78	4.984	4.978	0.006	96	3480851	100.0	94.2	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	97	1357413	100.0	96.3	
59 n-Heptane	43	5.075	5.075	0.000	88	1327032	100.0	91.5	
62 Trichloroethene	95	5.495	5.495	0.000	98	932749	100.0	94.6	
64 Methylcyclohexane	83	5.629	5.629	0.000	87	1652250	100.0	95.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	833564	100.0	96.5	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	218431	2000.0	2234.5	
67 Dibromomethane	93	5.842	5.842	0.000	95	588328	100.0	100.0	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	1249367	100.0	104.0	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	551747	100.0	104.0	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	1482439	100.0	101.3	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	93	4269190	500.0	511.6	
74 Toluene	92	6.620	6.620	0.000	99	2239990	100.0	95.2	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	97	1441202	100.0	104.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	1261468	100.0	105.9	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	665976	100.0	99.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	1007514	100.0	95.2	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	1412885	100.0	99.7	
80 2-Hexanone	43	7.223	7.217	0.006	92	3363984	500.0	516.4	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	931528	100.0	111.7	
84 Ethylene Dibromide	107	7.563	7.563	0.000	98	874036	100.0	102.5	
87 Chlorobenzene	112	8.020	8.020	0.000	94	2424875	100.0	95.2	
88 Ethylbenzene	91	8.087	8.087	0.000	98	3953899	100.0	93.2	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	869371	100.0	105.6	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	1703198	100.0	95.6	
91 o-Xylene	106	8.628	8.628	0.000	95	1621772	100.0	97.3	
92 Styrene	104	8.652	8.652	0.000	94	2859737	100.0	98.3	
95 Bromoform	173	8.920	8.920	0.000	96	653783	100.0	120.6	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	3954109	100.0	91.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.000	79	1084375	100.0	99.4	
101 Bromobenzene	156	9.389	9.388	0.000	92	1122268	100.0	93.9	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	61	372857	100.0	104.0	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	4513616	100.0	89.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	365896	100.0	97.8	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1016130	100.0	94.2	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	95	3438340	100.0	92.0	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	1097958	100.0	94.2	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	790782	100.0	92.6	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	3569277	100.0	93.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	4231777	100.0	90.1	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	3675792	100.0	91.7	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	2106967	100.0	94.6	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	2126360	100.0	93.1	
115 n-Butylbenzene	91	10.648	10.648	0.000	96	3311931	100.0	91.7	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	1953969	100.0	95.2	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	237848	100.0	113.2	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	1339108	100.0	97.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	772533	100.0	93.6	
121 Naphthalene	128	12.266	12.266	0.000	98	3298812	100.0	103.3	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	1248595	100.0	98.9	
S 125 1,2-Dichloroethene, Total	1				0			189.7	
S 126 1,3-Dichloropropene, Total	1				0			205.8	
S 123 Total BTEX	1				0			475.5	
S 124 Xylenes, Total	1				0			192.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 50.00	Units: uL	
GAS CORP mix_00280	Amount Added: 50.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

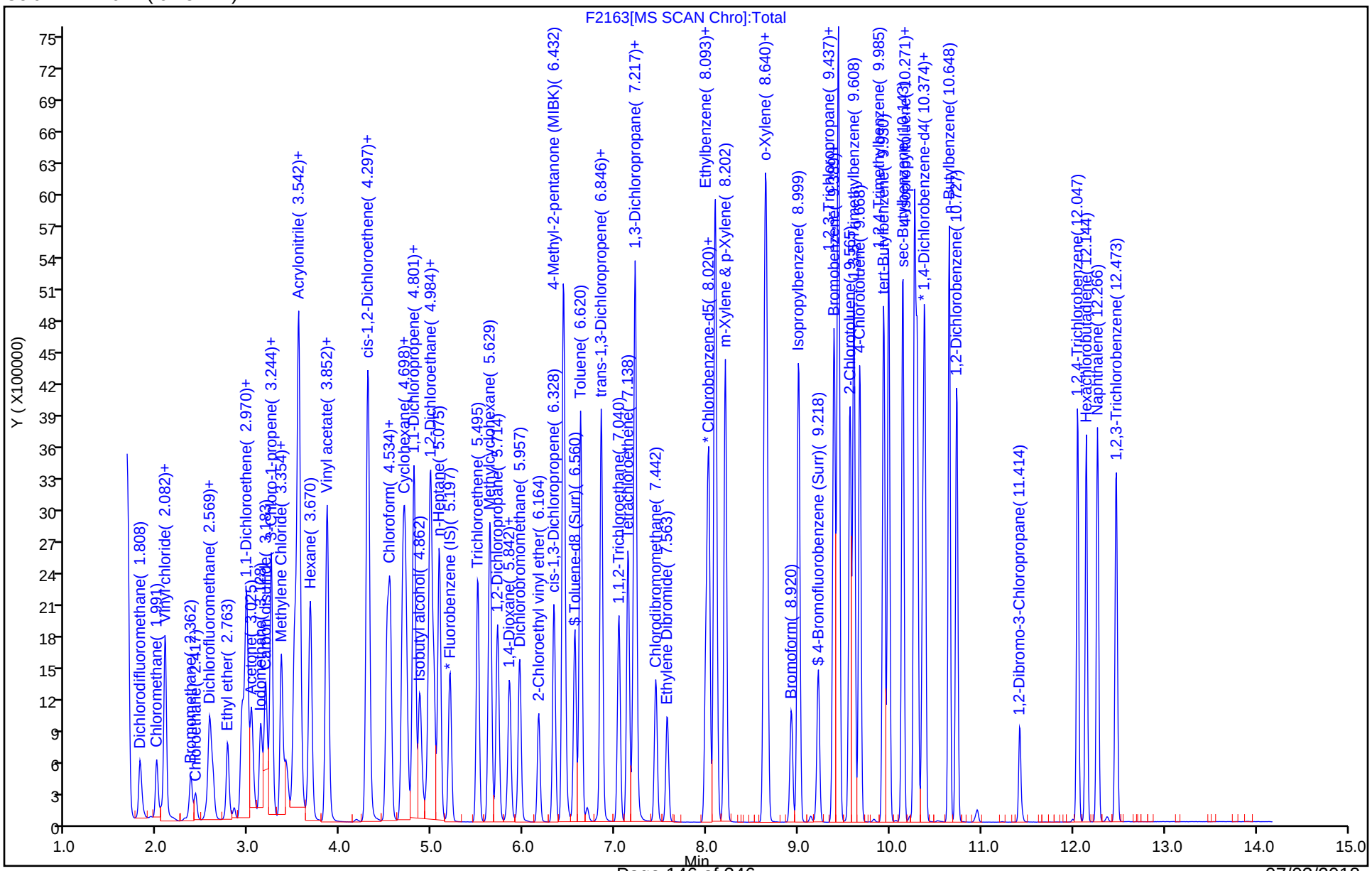
Report Date: 09-May-2018 10:47:31 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D

Injection Date:	08-May-2018 15:15:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

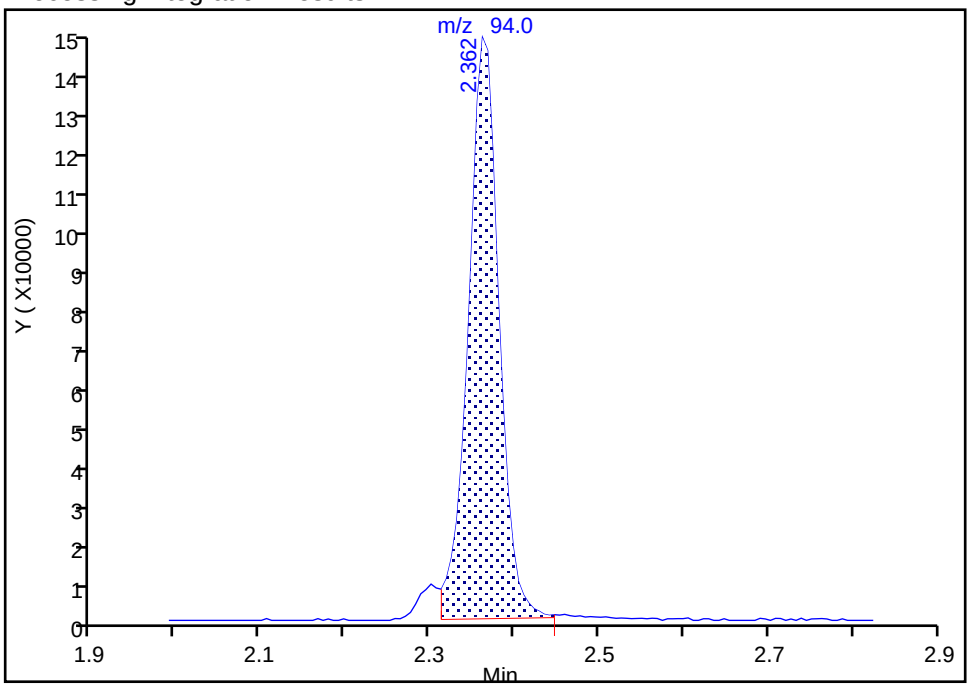
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

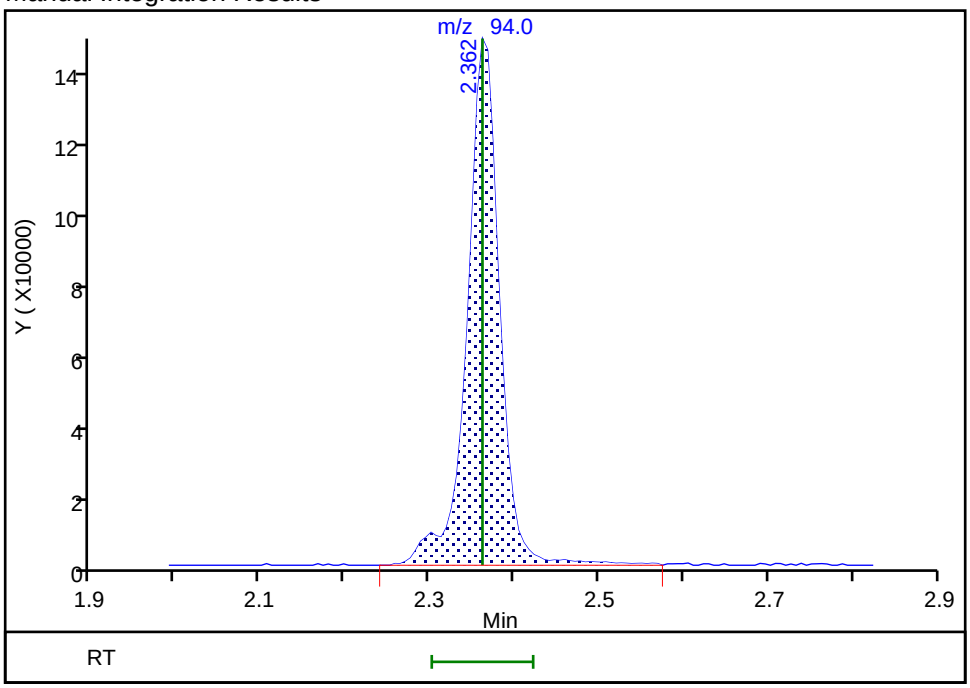
Processing Integration Results

RT: 2.36
Area: 371040
Amount: 81.851484
Amount Units: ug/kg



Manual Integration Results

RT: 2.36
Area: 395241
Amount: 86.530281
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

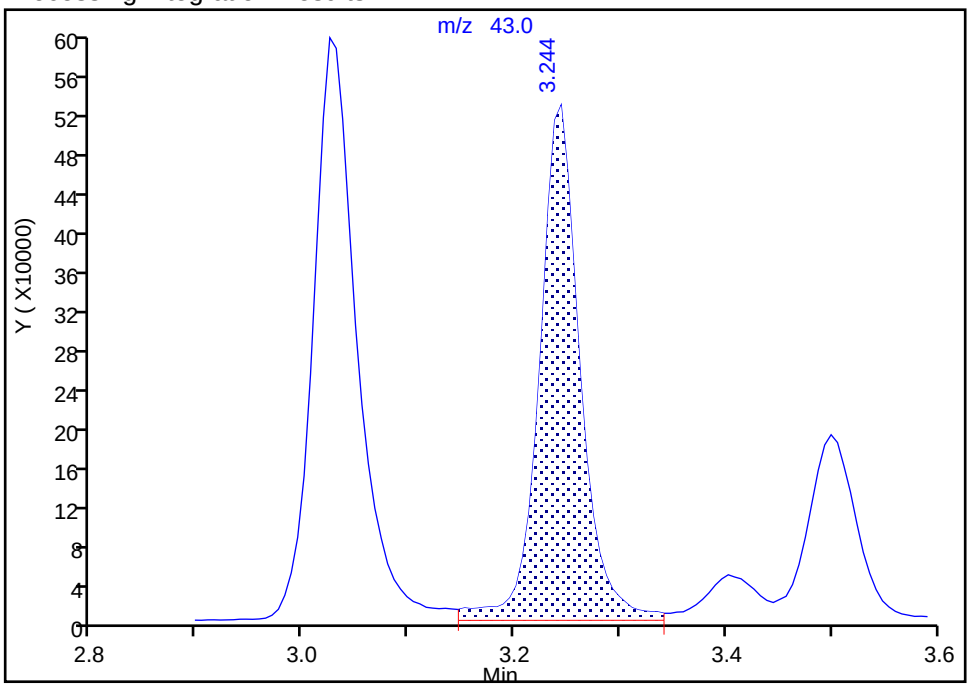
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

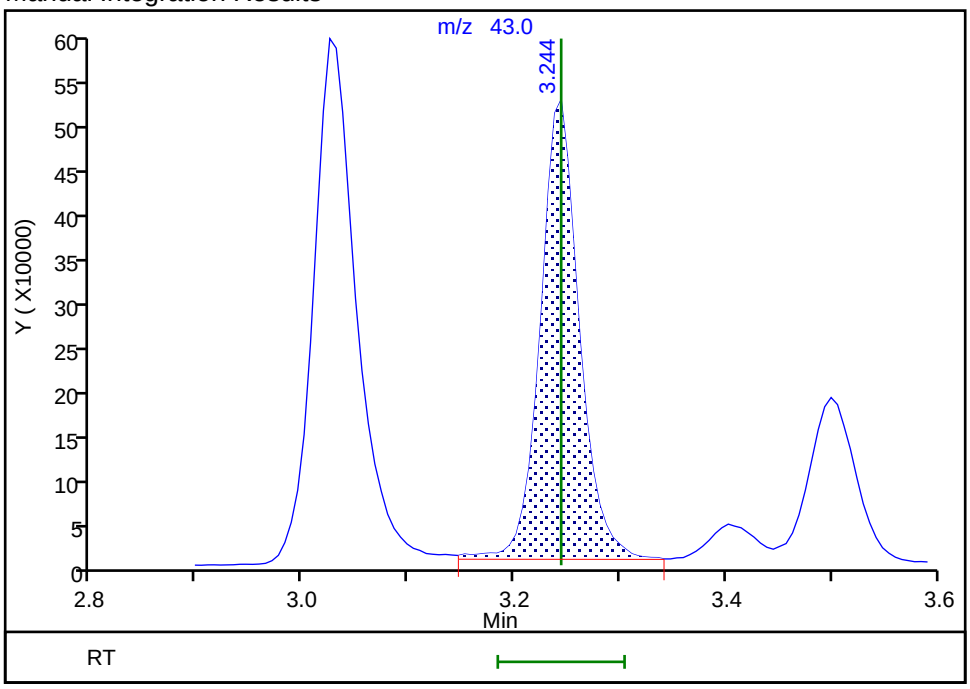
Processing Integration Results

RT: 3.24
Area: 1414006
Amount: 221.3077
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 1332522
Amount: 212.0671
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 15:41:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0071332-012
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:33 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:41:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	326601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	663923	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	672845	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	402086	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	95	253737	50.0	48.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	92	1557059	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	524824	50.0	50.7	
10 Dichlorodifluoromethane	85	1.814	1.808	0.006	99	1870641	200.0	181.4	
12 Chloromethane	50	1.997	1.985	0.012	99	1472544	200.0	175.1	
13 Vinyl chloride	62	2.088	2.076	0.012	98	1460875	200.0	177.3	
151 Butadiene	54	2.094	2.082	0.012	89	1501829	200.0	164.0	
14 Bromomethane	94	2.374	2.362	0.012	90	828372	200.0	178.1	
15 Chloroethane	64	2.423	2.417	0.006	99	651639	200.0	174.9	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1746904	200.0	174.1	
17 Trichlorofluoromethane	101	2.605	2.593	0.012	99	1917931	200.0	176.6	
18 Ethyl ether	59	2.769	2.763	0.006	87	1152714	200.0	182.9	
20 Acrolein	56	2.922	2.916	0.006	100	1515180	1000.0	911.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.952	0.012	93	1527242	200.0	179.9	
22 1,1-Dichloroethene	96	2.982	2.976	0.006	99	1499517	200.0	177.9	
23 Acetone	43	3.031	3.025	0.006	100	3053604	1000.0	890.8	
25 Iodomethane	142	3.135	3.128	0.006	100	2778637	200.0	184.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	4913516	200.0	180.4	
27 Methyl acetate	43	3.244	3.244	0.000	96	2421323	400.0	378.5	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	87	2394553	200.0	177.6	
30 Methylene Chloride	84	3.360	3.354	0.006	89	1805747	200.0	196.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	1866652	2000.0	1866.1	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	5311617	200.0	180.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	1754514	200.0	180.8	
33 Acrylonitrile	53	3.548	3.548	0.000	97	5657949	2000.0	1760.2	
35 Hexane	57	3.670	3.670	0.000	91	2666829	200.0	174.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	6281626	400.0	350.4	
39 1,1-Dichloroethane	63	3.858	3.859	-0.001	96	3001328	200.0	180.9	
43 2-Butanone (MEK)	43	4.296	4.290	0.006	98	4155648	1000.0	931.5	
44 2,2-Dichloropropane	77	4.296	4.290	0.006	89	2599387	200.0	181.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	1931790	200.0	181.1	
48 Chlorobromomethane	128	4.509	4.503	0.006	92	939948	200.0	186.0	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	1013003	400.0	371.6	
50 Chloroform	83	4.546	4.540	0.006	92	3093755	200.0	178.2	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	98	2703792	200.0	183.5	
52 Cyclohexane	56	4.710	4.704	0.006	87	2634538	200.0	177.1	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	96	2445117	200.0	178.5	
55 Carbon tetrachloride	117	4.807	4.808	-0.001	98	2434358	200.0	196.4	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	2077352	5000.0	4977.8	
57 Benzene	78	4.984	4.978	0.006	98	6414236	200.0	170.5	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	98	2549664	200.0	177.7	
59 n-Heptane	43	5.081	5.075	0.006	87	2609005	200.0	176.8	
62 Trichloroethene	95	5.501	5.495	0.006	97	1808222	200.0	180.2	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	3180641	200.0	179.8	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	1630061	200.0	185.4	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	391740	4000.0	3966.1	
67 Dibromomethane	93	5.842	5.842	0.000	95	1123988	200.0	187.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	2437257	200.0	199.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	1054234	200.0	195.3	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	2866859	200.0	192.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	90	7165809	1000.0	850.0	
74 Toluene	92	6.620	6.620	0.000	96	4253584	200.0	178.8	
77 trans-1,3-Dichloropropene	75	6.845	6.846	-0.001	96	2775351	200.0	199.2	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	2367523	200.0	196.6	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	1273909	200.0	188.3	
81 Tetrachloroethene	166	7.137	7.138	-0.001	97	1939047	200.0	181.3	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	2676910	200.0	186.9	
80 2-Hexanone	43	7.223	7.217	0.006	90	5734469	1000.0	871.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	1837784	200.0	218.0	
84 Ethylene Dibromide	107	7.569	7.563	0.006	99	1660134	200.0	192.6	
87 Chlorobenzene	112	8.020	8.020	0.000	92	4530079	200.0	176.0	
88 Ethylbenzene	91	8.087	8.087	0.000	97	6999358	200.0	163.3	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	1692523	200.0	203.4	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	96	3286708	200.0	182.7	
91 o-Xylene	106	8.634	8.628	0.006	95	3086903	200.0	183.3	
92 Styrene	104	8.652	8.652	0.000	92	5344805	200.0	181.9	
95 Bromoform	173	8.920	8.920	0.000	96	1309515	200.0	239.0	
94 Isopropylbenzene	105	8.999	8.999	0.000	97	7035681	200.0	160.3	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	93	2001615	200.0	181.2	
101 Bromobenzene	156	9.388	9.388	0.000	91	2138796	200.0	176.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	49	678115	200.0	186.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	95	7640594	200.0	149.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	67	672880	200.0	177.6	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1949120	200.0	178.5	
102 1,3,5-Trimethylbenzene	105	9.607	9.608	-0.001	95	6140462	200.0	162.3	
105 4-Chlorotoluene	126	9.668	9.668	0.000	96	2120077	200.0	179.5	
106 tert-Butylbenzene	134	9.930	9.930	0.000	91	1524919	200.0	176.3	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	6276260	200.0	161.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	7170684	200.0	150.8	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	93	6350065	200.0	156.4	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	96	3902824	200.0	173.0	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	92	3967003	200.0	171.4	
115 n-Butylbenzene	91	10.648	10.648	0.000	93	5784281	200.0	158.1	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	95	3628583	200.0	174.5	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	447122	200.0	210.1	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	95	2481204	200.0	178.8	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	1434094	200.0	171.6	
121 Naphthalene	128	12.266	12.266	0.000	99	5624161	200.0	173.8	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	2318537	200.0	181.3	
S 125 1,2-Dichloroethene, Total	1				0			361.9	
S 126 1,3-Dichloropropene, Total	1				0			391.5	
S 123 Total BTEX	1				0			878.6	
S 124 Xylenes, Total	1				0			366.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 100.00	Units: uL	
GAS CORP mix_00280	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

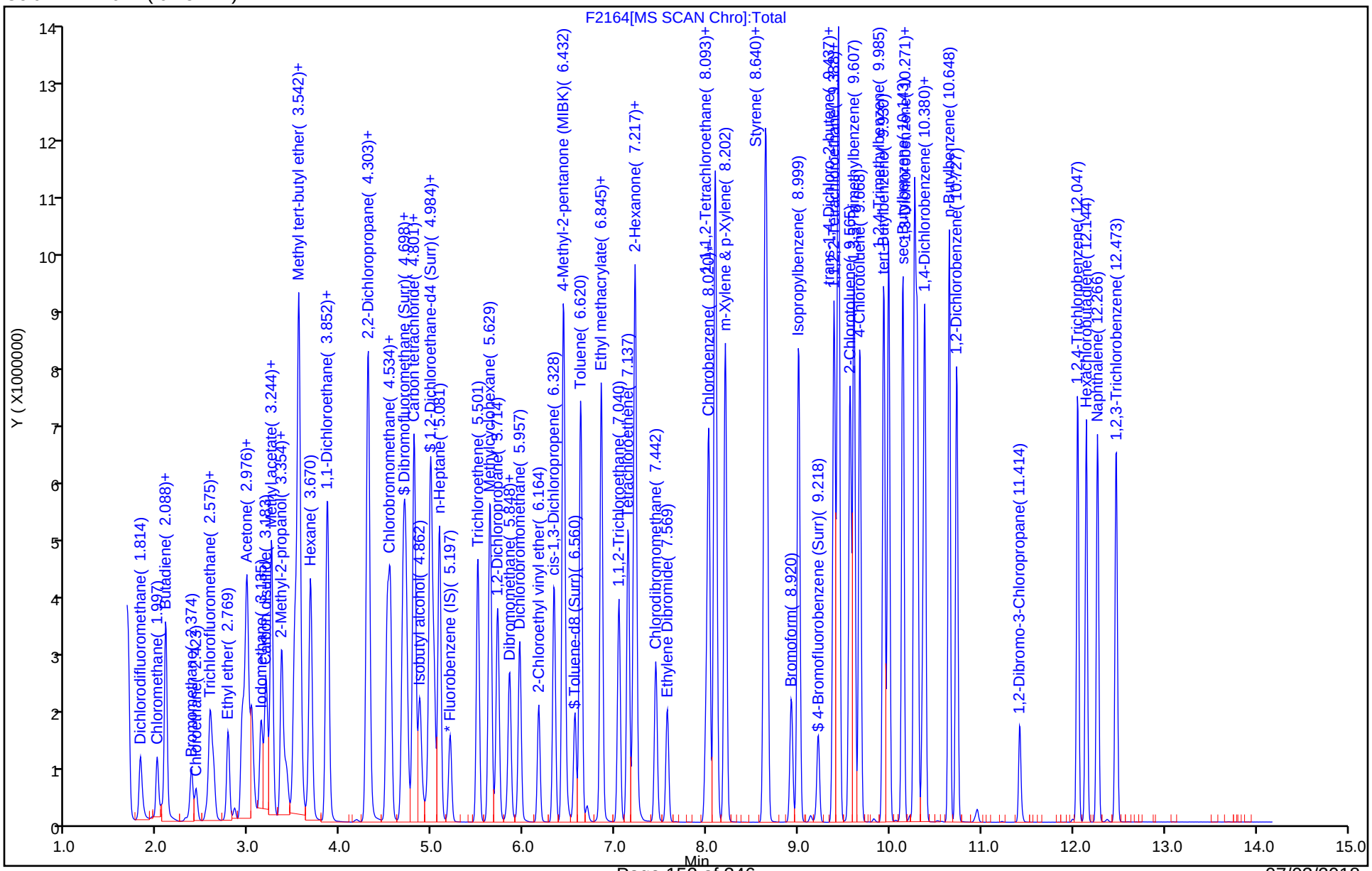
Report Date: 09-May-2018 10:47:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D

Injection Date:	08-May-2018 15:41:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

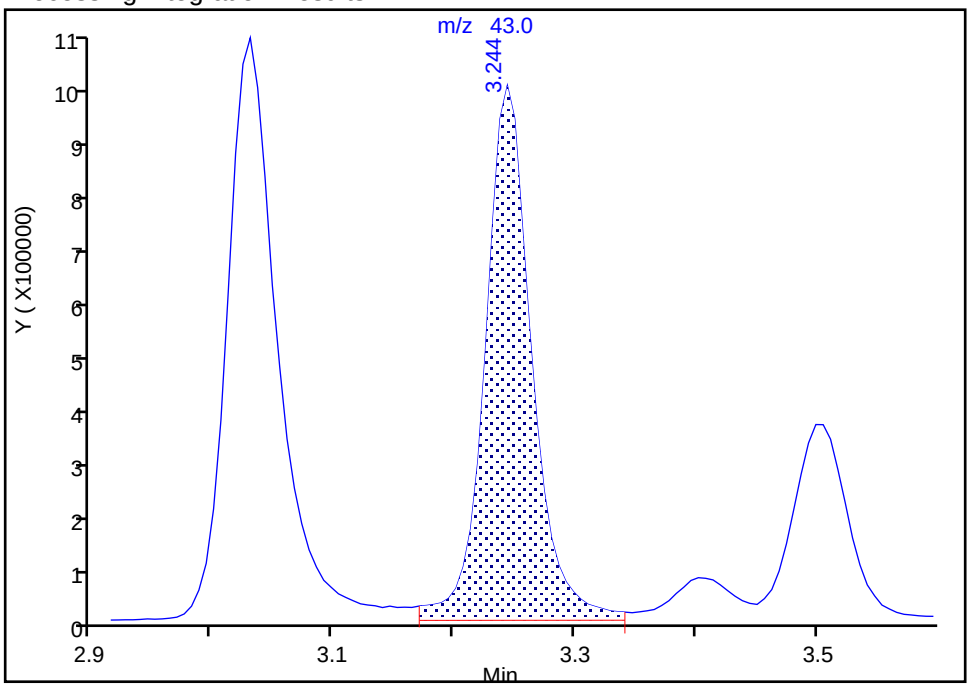
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Injection Date: 08-May-2018 15:41:30 Instrument ID: HP5973F
Lims ID: IC 7
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

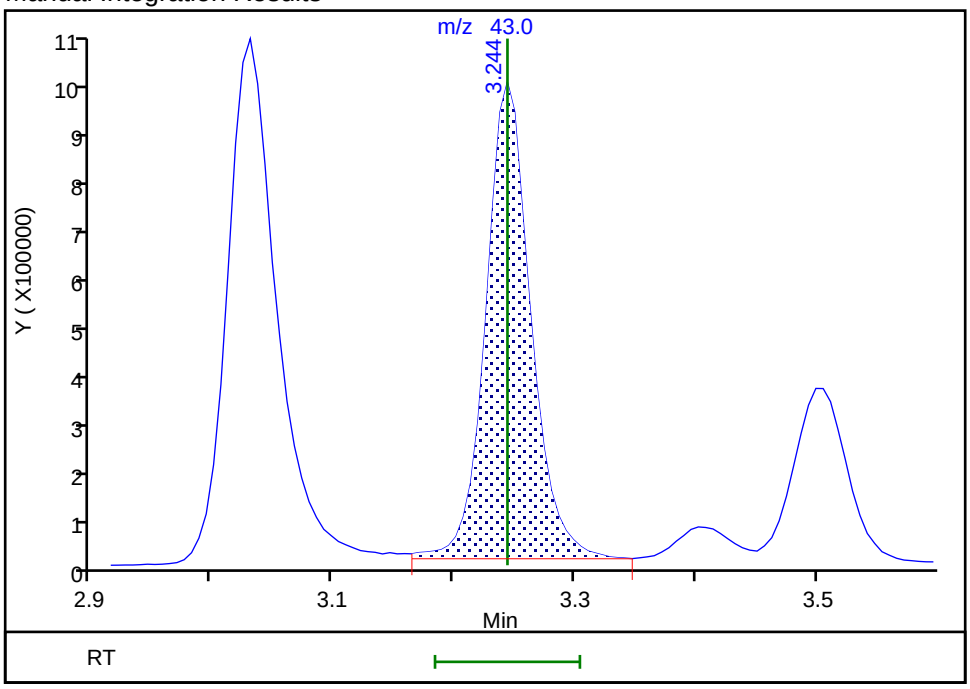
Processing Integration Results

RT: 3.24
Area: 2557087
Amount: 396.7218
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 2421323
Amount: 378.5059
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:40:43
Audit Action: Manually Integrated Audit Reason: Baseline

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.0665 1.2589	0.9361 1.4448	0.9453 1.2775	1.4718	1.2318	Ave		1.2041			0.1000	17.1		20.0			
Chloromethane	1.7623 1.9306	1.9509 1.9553	1.9350 1.8158	2.0155	1.9350	Ave		1.9125			0.1000	4.3		20.0			
Vinyl chloride	1.6568 1.6908	1.5657 1.8763	1.6230 1.6849	1.8470	1.6612	Ave		1.7007			0.1000	6.3		20.0			
Butadiene	1.8620 1.6494	1.7965 1.8564	1.7020 1.6775	1.9156	1.7306	Ave		1.7737				5.5		20.0			
Bromomethane	0.9917 0.8747	0.9861 0.9359	0.8069 0.8729	0.9617	0.8612	Ave		0.9114			0.1000	7.3		20.0			
Chloroethane	+++++ 1.0362	1.0152 1.1005	0.9560 1.0175	1.1014	0.9788	Ave		1.0294			0.1000	5.4		20.0			
Trichlorofluoromethane	1.3514 1.6874	1.2497 1.9145	1.5084 1.7620	1.9155	1.5032	Ave		1.6115			0.1000	15.4		20.0			
Dichlorofluoromethane	2.8785 2.0907	2.4003 2.1919	1.9931 2.1039	2.4123	1.9710	Ave		2.2552				13.4		20.0			
Ethyl ether	1.3529 1.4756	1.2888 1.5496	1.3634 1.4488	1.5277	1.4614	Ave		1.4335				6.3		20.0			
Acrolein	0.2835 0.2882	0.2776 0.2993	0.2421 0.2849	0.2616	0.2595	Ave		0.2746				6.8		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.9341	0.5111 0.9461	0.7470 1.0076	1.0940	1.0244	Lin1	-0.369	0.9933			0.1000				0.9980		0.9900
1,1-Dichloroethene	0.8917 1.1648	0.7505 1.2089	1.1564 1.2140	1.2655	1.1826	Ave		1.1043			0.1000	16.5		20.0			
Acetone	+++++ 0.4184	0.5585 0.4700	0.5654 0.4500	0.4830	0.4216	Ave		0.4810			0.1000	12.5		20.0			
Iodomethane	1.2009 1.7612	1.2126 1.8969	1.4497 1.8973	1.7945	1.7071	Ave		1.6150				17.9		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.3950 3.5530	2.7999 3.8268	3.4659 3.7169	3.9148	3.4911	Ave		3.5204			0.1000	9.8		20.0			
Allyl chloride	2.6942 2.0957	1.6922 2.1931	2.1081 2.1248	2.3194	1.9001	Ave		2.1409				13.7		20.0			
Methyl acetate	1.3560 1.1196	1.1715 1.2779	1.4665 1.2157	1.3271	1.1675	Ave		1.2627			0.1000	9.2		20.0			
Methylene Chloride	6.4996 1.4449	3.4907 1.4330	2.6242 1.3806	1.9329	1.5594	Lin1	2.4473	1.3618			0.1000				0.9990		0.9900
2-Methyl-2-propanol	+++++ 0.1557	0.1363 0.1769	0.1472 0.1960	0.1598	0.1689	Ave		0.1630				12.1		20.0			
Methyl tert-butyl ether	4.1375 4.2209	3.7459 4.3401	4.1817 4.1626	4.2685	4.0491	Ave		4.1383			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	1.0514 1.2945	1.1406 1.3219	1.2992 1.2872	1.4285	1.2872	Ave		1.2638			0.1000	9.2		20.0			
Acrylonitrile	0.6220 0.6716	0.6885 0.7132	0.6792 0.6639	0.6531	0.6780	Ave		0.6712				4.0		20.0			
Hexane	2.2114 2.2652	2.0959 2.4442	2.1205 2.4309	2.7772	2.2960	Ave		2.3302				9.5		20.0			
1,1-Dichloroethane	2.5389 2.6549	2.3884 2.7780	2.7132 2.6860	2.8305	2.7092	Ave		2.6624			0.2000	5.3		20.0			
Vinyl acetate	2.9127 3.1221	3.1111 3.0557	3.1275 2.8332	3.2000	3.1953	Ave		3.0697				4.3		20.0			
2,2-Dichloropropane	1.3363 1.5114	1.2926 1.5386	1.4757 1.5408	1.6651	1.4425	Ave		1.4754				8.1		20.0			
cis-1,2-Dichloroethene	1.3250 1.5154	1.2193 1.5485	1.3895 1.5021	1.5820	1.5363	Ave		1.4523			0.1000	8.8		20.0			
2-Butanone (MEK)	0.8114 0.7283	0.7148 0.7480	0.7158 0.7457	0.7321	0.7126	Ave		0.7386			0.1000	4.4		20.0			
Chlorobromomethane	0.5523 0.7433	0.6218 0.7417	0.7106 0.7173	0.7721	0.6916	Ave		0.6939				10.5		20.0			
Tetrahydrofuran	0.5100 0.5143	0.5916 0.5038	0.4911 0.5042	0.4629	0.4823	Ave		0.5075				7.5		20.0			
Chloroform	2.2184 2.2511	2.3256 2.3574	2.3450 2.2735	2.5367	2.2740	Ave		2.3227			0.2000	4.3		20.0			
1,1,1-Trichloroethane	1.6807 1.7550	1.4931 1.8613	1.6427 1.8405	1.8985	1.6762	Ave		1.7310			0.1000	7.8		20.0			
Cyclohexane	2.1504 2.4488	1.8163 2.5917	2.1665 2.6545	2.4471	2.3534	Ave		2.3286			0.1000	11.8		20.0			
Carbon tetrachloride	1.1105 1.5222	1.1651 1.6554	1.5214 1.6186	1.5803	1.4305	Ave		1.4505			0.1000	14.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.8731 1.7168	1.4205 1.8558	1.8938 1.8328	1.8298	1.6916	Ave		1.7643				8.9		20.0			
Benzene	5.1942 5.3896	4.7117 5.5287	5.2823 5.2725	5.7352	5.3147	Ave		5.3036			0.5000	5.6		20.0			
Isobutyl alcohol	0.0671 0.0668	0.0622 0.0750	0.0700 0.0764	0.0628	0.0685	Ave		0.0686				7.5		20.0			
1,2-Dichloroethane	2.0805 2.1099	2.0699 2.1793	2.2191 2.0867	2.2540	2.1430	Ave		2.1428			0.1000	3.2		20.0			
n-Heptane	2.3209 2.1075	1.9690 2.1545	2.1019 2.1373	2.4588	2.0887	Ave		2.1673				7.0		20.0			
Trichloroethene	1.3177 1.3771	1.1544 1.4170	1.3587 1.4162	1.5440	1.3610	Ave		1.3683			0.2000	8.0		20.0			
Methylcyclohexane	1.7990 2.1533	1.5990 2.3276	1.9460 2.2773	2.4588	2.1083	Ave		2.0837			0.1000	13.8		20.0			
1,2-Dichloropropane	1.4365 1.5812	1.5517 1.6696	1.6624 1.5781	1.6836	1.6365	Ave		1.6000			0.1000	5.1		20.0			
Dibromomethane	0.7897 0.8553	0.7556 0.8807	0.7750 0.8684	0.8635	0.8943	Ave		0.8353			0.1000	6.4		20.0			
1,4-Dioxane	+++++ 0.0058	0.0019 0.0058	0.0036 0.0055	0.0043	0.0058	Lin1	-0.075	0.0057							0.9980		0.9900
Bromodichloromethane	1.3255 1.7458	1.3019 1.8412	1.4534 1.8150	1.7492	1.6384	Ave		1.6088			0.2000	13.6		20.0			
2-Chloroethyl vinyl ether	0.8987 1.1430	1.0935 1.1740	0.9247 1.1354	1.0863	1.0857	Ave		1.0677				9.5		20.0			
cis-1,3-Dichloropropene	1.7113 2.1494	1.7018 2.2435	1.9021 2.1801	2.1612	2.1330	Ave		2.0228			0.2000	10.8		20.0			
4-Methyl-2-pentanone (MIBK)	0.8176 0.7887	0.7729 0.7775	0.8747 0.7119	0.8128	0.8291	Ave		0.7981			0.1000	6.0		20.0			
Toluene	1.4932 1.6238	1.5773 1.7040	1.7421 1.7063	1.7553	1.6931	Ave		1.6619			0.4000	5.4		20.0			
trans-1,3-Dichloropropene	0.7668 0.9648	0.7879 1.0144	0.8905 1.0454	0.8818	0.9722	Ave		0.9155			0.1000	11.1		20.0			
Ethyl methacrylate	0.6799 0.9439	0.8300 0.9611	0.9006 0.9825	0.9328	0.9491	Ave		0.8975				11.1		20.0			
1,1,2-Trichloroethane	0.4116 0.4978	0.4735 0.5176	0.5613 0.5217	0.5195	0.5023	Ave		0.5007			0.1000	8.8		20.0			
Tetrachloroethene	0.6925 0.6880	0.6277 0.7351	0.6985 0.7322	0.7337	0.7060	Ave		0.7017			0.2000	5.1		20.0			
1,3-Dichloropropane	0.9225 1.0482	1.0197 1.0980	1.1380 1.0980	1.0186	1.1041	Ave		1.0559				6.5		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.5897 0.5765	0.5749 0.5711	0.6269 0.5367	0.6138	0.6103	Ave		0.5875			0.1000	4.9		20.0			
Dibromochloromethane	0.3992 0.6085	0.4622 0.6535	0.5746 0.6922	0.5631	0.6019	Ave		0.5694			0.1000	17.0		20.0			
1,2-Dibromoethane	0.5204 0.6216	0.6798 0.6443	0.6333 0.6522	0.6498	0.6452	Ave		0.6308				7.6		20.0			
Chlorobenzene	1.8118 1.7992	1.5610 1.8673	1.9020 1.8548	1.9177	1.8555	Ave		1.8212			0.5000	6.2		20.0			
Ethylbenzene	2.6561 2.9895	2.6563 3.0996	3.2172 2.9793	3.2411	3.1222	Ave		2.9952			0.1000	7.6		20.0			
1,1,1,2-Tetrachloroethane	0.4433 0.6070	0.5314 0.6466	0.6090 0.6704	0.5787	0.6253	Ave		0.5890				12.3		20.0			
m,p-Xylene	1.2373 1.1561	1.1556 1.2284	1.2508 1.2629	1.2609	1.1952	Ave		1.2184			0.1000	3.6		20.0			
o-Xylene	1.0045 1.1613	0.9780 1.2163	1.2332 1.2250	1.2192	1.2136	Ave		1.1564			0.3000	9.0		20.0			
Styrene	1.8152 2.0224	1.6328 2.1117	2.0436 2.1105	2.0942	2.0471	Ave		1.9847			0.3000	8.6		20.0			
Bromoform	0.2877 0.3850	0.3141 0.4304	0.3156 0.4701	0.3317	0.3750	Ave		0.3637			0.1000	17.4		20.0			
Isopropylbenzene	2.8187 3.2334	2.6604 3.2502	3.2717 3.1740	3.5120	3.2946	Ave		3.1519			0.1000	8.8		20.0			
Bromobenzene	0.7185 0.8335	0.6972 0.8144	0.8005 0.8430	0.8368	0.8355	Ave		0.7974				7.2		20.0			
1,1,2,2-Tetrachloroethane	0.8554 0.8631	0.7756 0.8499	0.8473 0.8656	0.9010	0.8934	Ave		0.8564			0.3000	4.4		20.0			
N-Propylbenzene	3.3950 3.7788	3.0422 3.7479	3.7585 3.5471	4.0917	3.8709	Ave		3.6540				8.8		20.0			
1,2,3-Trichloropropane	0.2961 0.2956	0.2105 0.2987	0.2592 0.2930	0.2999	0.3025	Ave		0.2819				11.3		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3124	0.1809 0.3116	0.2095 +++++	0.2457	0.2760	Lin1	-0.183	0.3127							0.9980		0.9900
2-Chlorotoluene	0.9499 0.7905	0.6127 0.7783	0.7784 0.7925	0.8076	0.7823	Ave		0.7865				11.5		20.0			
1,3,5-Trimethylbenzene	2.6880 2.7560	2.4032 2.7485	2.7675 2.6995	2.8892	2.9233	Ave		2.7344				5.8		20.0			
4-Chlorotoluene	0.6916 0.8473	0.6714 0.8358	0.8732 0.8485	0.8432	0.8364	Ave		0.8059				9.7		20.0			
tert-Butylbenzene	0.4442 0.6248	0.4824 0.6328	0.5740 0.6377	0.6554	0.6120	Ave		0.5829				13.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.6497 2.9289	2.2643 2.8720	2.8780 2.7535	3.0114	2.9833	Ave		2.7927				8.7		20.0			
sec-Butylbenzene	3.1348 3.3954	2.7032 3.3821	3.3932 3.2799	3.5159	3.4256	Ave		3.2788				7.9		20.0			
1,3-Dichlorobenzene	1.5074 1.5713	1.3706 1.5679	1.6123 1.5509	1.6125	1.6026	Ave		1.5494			0.6000	5.2		20.0			
4-Isopropyltoluene	2.5737 2.9925	2.1476 2.9966	2.8678 2.8440	3.1091	3.0448	Ave		2.8220				11.3		20.0			
1,4-Dichlorobenzene	1.3127 1.5924	1.5619 1.5765	1.6568 1.5808	1.7201	1.6378	Ave		1.5799			0.5000	7.6		20.0			
n-Butylbenzene	2.1891 2.7229	2.0400 2.6514	2.6980 2.5836	2.8037	2.6684	Ave		2.5446				10.8		20.0			
1,2-Dichlorobenzene	1.3859 1.5321	1.4084 1.5247	1.5498 1.5112	1.6559	1.6346	Ave		1.5253			0.4000	6.2		20.0			
1,2-Dibromo-3-Chloropropane	0.1861 0.1811	0.1318 0.1863	0.1428 0.1854	0.1507	0.1653	Ave		0.1662			0.0500	13.2		20.0			
1,2,4-Trichlorobenzene	0.9478 1.1265	0.9110 1.1573	1.1771 1.1556	1.0821	1.1198	Ave		1.0847			0.2000	9.3		20.0			
Hexachlorobutadiene	0.5332 0.5343	0.3840 0.5453	0.5260 0.5664	0.5353	0.5245	Ave		0.5186				10.8		20.0			
Naphthalene	2.5334 3.2095	2.6074 3.1917	2.9880 3.0480	2.9747	3.1673	Ave		2.9650				8.8		20.0			
1,2,3-Trichlorobenzene	0.7843 1.0767	0.8587 1.0732	0.9477 1.1030	1.0666	1.0923	Ave		1.0003				12.2		20.0			
Dibromofluoromethane (Surr)	1.1790 1.1858	1.1799 1.2727	1.1679 1.2115	1.2117	1.1648	Ave		1.1967				3.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7678 0.7917	0.7976 0.8218	0.7565 0.7458	0.8347	0.7500	Ave		0.7832				4.3		20.0			
Toluene-d8 (Surr)	2.4473 2.3886	2.4261 2.4587	2.5049 2.3969	2.4292	2.4265	Ave		2.4348				1.5		20.0			
4-Bromofluorobenzene (Surr)	0.7361 0.7460	0.7584 0.7652	0.7525 0.7580	0.7431	0.7227	Ave		0.7477				1.8		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-420621/5	S2506.D
Level 2	IC 480-420621/6	S2507.D
Level 3	IC 480-420621/7	S2508.D
Level 4	IC 480-420621/8	S2509.D
Level 5	IC 480-420621/9	S2510.D
Level 6	ICIS 480-420621/10	S2511.D
Level 7	IC 480-420621/11	S2512.D
Level 8	IC 480-420621/12	S2513.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4246 248186	7348 556127	15348 1042243	57375	100661	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	7016 380591	15313 752596	31418 1481396	78570	158120	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	6596 333324	12290 722212	26352 1374584	72004	135746	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	7413 325163	14101 714525	27634 1368549	74679	141422	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3948 172433	7740 360223	13102 712144	37490	70373	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	+++++ 204270	7969 423584	15522 830061	42938	79988	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5380 332653	9809 736903	24492 1437497	74675	122840	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	11460 412155	18841 843653	32362 1716432	94040	161069	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	5386 290892	10116 596459	22137 1181934	59556	119421	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	5643 284078	10896 575962	19651 1162249	50983	106044	2.50 125	5.00 250	10.0 500	25.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroetha ne	FB	Lin1	+++++ 184140	4012 364156	12129 822020	42648	83709	+++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethene	FB	Ave	3550 229631	5891 465301	18776 990419	49334	96639	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	+++++ 412424	21919 904483	45897 1835772	94147	172269	+++++ 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4781 347195	9518 730136	23539 1547832	69957	139498	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	13516 700429	21977 1472959	56275 3032330	152614	285284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	10726 413143	13283 844115	34229 1733446	90419	155269	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	10797 441430	18391 983740	47623 1983551	103471	190812	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	25876 284846	27400 551561	42609 1126336	75350	127431	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	+++++ 307003	10697 680866	23908 1598960	62295	137981	+++++ 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	16472 832097	29403 1670515	67897 3395940	166404	330882	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	4186 255195	8953 508786	21095 1050113	55688	105184	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	24762 1323936	54039 2745107	110281 5416558	254614	554059	5.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	8804 446557	16451 940801	34429 1983165	108267	187621	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	10108 523385	18747 1069251	44053 2191279	110345	221389	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	23192 1230989	48840 2352331	101560 4622714	249498	522220	1.00 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5320 297960	10146 592229	23960 1257016	64910	117878	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	5275 298747	9571 596033	22561 1225447	61673	125542	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	16151 717854	28054 1439504	58111 3041661	142709	291158	2.50 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2199 146527	4881 285479	11538 585187	30101	56519	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Ave	4061 202767	9288 387841	15949 822605	36094	78819	1.00 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	8832 443774	18254 907363	38075 1854730	98890	185827	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	6691 345970	11720 716429	26672 1501541	74012	136975	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	8561 482758	14257 997545	35177 2165602	95397	192312	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	4421 300091	9145 637175	24702 1320508	61607	116898	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	7457 338452	11150 714312	30749 1495256	71332	138232	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	20679 1062500	36984 2128022	85767 4301395	223580	434302	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	6683 329152	12199 721955	28420 1557611	61251	139911	12.5 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	8283 415950	16247 838833	36030 1702374	87871	175124	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	9240 415475	15455 829266	34128 1743611	95852	170684	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	5246 271489	9061 545392	22060 1155378	60191	111214	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	7162 424498	12551 895898	31597 1857834	95854	172282	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	5719 311720	12180 642638	26992 1287446	65633	133728	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromomethane	FB	Ave	3144 168616	5931 338999	12583 708426	33662	73081	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Lin1	+++++ 46908	597 91625	2267 176888	6969	18780	+++++ 500	20.0 1000	40.0 2000	100	200
Bromodichloromethane	FB	Ave	5277 344167	10219 708669	23598 1480734	68190	133887	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	3578 225325	8583 451891	15014 926261	42348	88719	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	6813 423733	13358 863532	30883 1778596	84252	174306	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	32292 1601823	59826 3068632	137972 5759555	326171	670794	2.50 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	11795 659595	24418 1345091	54960 2760907	140875	273964	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	6057 391909	12197 800744	28095 1691433	70774	157325	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5371 383401	12849 758693	28412 1589664	74867	153587	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3251 202209	7331 408565	17708 844173	41694	81284	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	5470 279490	9718 580239	22036 1184748	58888	114249	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	7287 425777	15786 866770	35902 1776603	81753	178659	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	23291 1170919	44500 2254226	98893 4341846	246316	493778	2.50 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	3153 247163	7156 515833	18127 1120056	45191	97396	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	4111 252512	10524 508600	19979 1055354	52152	104411	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	14312 730835	24166 1474031	60005 3001103	153908	300247	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	20981 1214363	41123 2446781	101499 4820637	260118	505219	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3502 246580	8227 510400	19212 1084784	46444	101180	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	9774 469623	17890 969691	39460 2043355	101199	193403	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	7935 471745	15140 960148	38904 1982170	97848	196385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	14339 821536	25278 1666910	64472 3414832	168072	331254	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	2273 156408	4863 339740	9957 760638	26624	60675	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	20648 1180615	39437 2412885	97764 4783571	261022	487020	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	5263 304349	10335 604551	23921 1270447	62196	123511	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	6266 315135	11498 630975	25318 1304499	66963	132068	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	24869 1379737	45097 2782295	112308 5345840	304106	572209	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	2169 107926	3120 221749	7744 441615	22292	44716	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin1	+++++ 114077	2682 231344	6261 +++++	18263	40802	+++++ 25.0	1.00 50.0	2.00 +++++	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	6958 288633	9082 577783	23261 1194322	60025	115644	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	19690 1006297	35625 2040375	82695 4068375	214731	432135	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	5066 309390	9952 620467	26092 1278707	62670	123635	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	3254 228134	7151 469785	17151 961000	48709	90461	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	19410 1069434	33566 2132089	85998 4149841	223814	441006	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	22963 1239742	40072 2510799	101392 4943148	261311	506385	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	11042 573712	20317 1163942	48178 2337298	119848	236904	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	18853 1092636	31836 2224584	85693 4286221	231080	450095	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1 Analy Batch No.: 420621

SDG No.:

Instrument ID: HP5973S GC Column: ZB-624 (20) ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 13:51 Calibration End Date: 06/20/2018 16:34 Calibration ID: 34116

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	9616 581426	23153 1170382	49506 2382476	127844	242101	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	16036 994221	30240 1968301	80619 3893665	208379	394458	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	10152 559407	20878 1131910	46309 2277520	123068	241629	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1363 66108	1954 138297	4266 279459	11203	24435	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	6943 411331	13505 859177	35174 1741646	80426	165528	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	3906 195098	5693 404793	15718 853596	39788	77538	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	18558 1171879	38651 2369399	89284 4593666	221088	468207	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5745 393148	12729 796689	28319 1662277	79276	161462	0.500 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	234690 233776	231529 244934	237036 247091	236175	237971	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152837 156084	156518 158160	153545 152101	162701	153221	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	966595 970258	938964 970429	987838 969583	974777	981631	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	290734 303043	293518 302035	296734 306600	298183	292377	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Lims ID: IC 0.5
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jun-2018 13:51:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 0.5
Misc. Info.: 480-0072482-005
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:25:34 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 17:24:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	199059	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394964	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	366264	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	57	234690	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	152837	25.0	24.5	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	966595	25.0	25.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	290734	25.0	24.6	
10 Dichlorodifluoromethane	85	1.300	1.282	0.018	1	4246	0.5000	0.4429	
12 Chloromethane	50	1.464	1.464	0.000	34	7016	0.5000	0.4607	
13 Vinyl chloride	62	1.562	1.549	0.013	21	6596	0.5000	0.4871	a
151 Butadiene	54	1.598	1.574	0.024	52	7413	0.5000	0.5249	Ma
14 Bromomethane	94	1.878	1.872	0.006	62	3948	0.5000	0.5440	
15 Chloroethane	64		1.969				ND	ND	U
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	31	5380	0.5000	0.4193	M
16 Dichlorofluoromethane	67	2.200	2.194	0.006	55	11460	0.5000	0.6382	Ma
18 Ethyl ether	59	2.498	2.492	0.006	52	5386	0.5000	0.4719	
20 Acrolein	56	2.693	2.687	0.006	32	5643	2.50	2.58	M
21 1,1,2-Trichloro-1,2,2-trif	101		2.705				ND	ND	U
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	28	3550	0.5000	0.4037	M
23 Acetone	43	2.851	2.851	0.000	93	13929	2.50	3.64	Ma
25 Iodomethane	142	2.894	2.894	0.000	16	4781	0.5000	0.3718	a
26 Carbon disulfide	76	2.918	2.918	0.000	85	13516	0.5000	0.4822	M
28 3-Chloro-1-propene	41	3.088	3.089	0.000	37	10726	0.5000	0.6292	M
27 Methyl acetate	43	3.143	3.143	0.000	85	10797	1.00	1.07	M
30 Methylene Chloride	84	3.253	3.253	0.000	91	25876	0.5000	0.5893	M
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	57	3836	5.00	2.96	M
32 Methyl tert-butyl ether	73	3.460	3.454	0.006	53	16472	0.5000	0.4999	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	60	4186	0.5000	0.4160	
33 Acrylonitrile	53	3.539	3.539	0.000	92	24762	5.00	4.63	
35 Hexane	57	3.660	3.660	0.000	68	8804	0.5000	0.4745	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	8	10108	0.5000	0.4768	
37 Vinyl acetate	43	3.946	3.952	-0.006	92	23192	1.00	0.9489	
44 2,2-Dichloropropane	77	4.409	4.415	-0.006	37	5320	0.5000	0.4529	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	30	5275	0.5000	0.4562	a
43 2-Butanone (MEK)	43	4.500	4.494	0.006	83	16151	2.50	2.75	
48 Chlorobromomethane	128	4.701	4.695	0.006	63	2199	0.5000	0.3980	
49 Tetrahydrofuran	42	4.719	4.713	0.006	57	4061	1.00	1.00	
50 Chloroform	83	4.768	4.774	-0.006	61	8832	0.5000	0.4776	
51 1,1,1-Trichloroethane	97	4.889	4.877	0.012	31	6691	0.5000	0.4855	
52 Cyclohexane	56	4.877	4.883	-0.006	45	8561	0.5000	0.4617	
55 Carbon tetrachloride	117	5.011	5.011	0.000	55	4421	0.5000	0.3828	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	61	7457	0.5000	0.5308	
57 Benzene	78	5.236	5.236	0.000	33	20679	0.5000	0.4897	
53 Isobutyl alcohol	43	5.272	5.266	0.006	34	6683	12.5	12.2	M
58 1,2-Dichloroethane	62	5.315	5.315	0.000	59	8283	0.5000	0.4855	
59 n-Heptane	43	5.406	5.412	-0.006	62	9240	0.5000	0.5354	M
62 Trichloroethene	95	5.844	5.850	-0.006	50	5246	0.5000	0.4815	
64 Methylcyclohexane	83	5.960	5.960	0.000	57	7162	0.5000	0.4317	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	41	5719	0.5000	0.4489	
67 Dibromomethane	93	6.240	6.234	0.006	69	3144	0.5000	0.4727	
66 1,4-Dioxane	88	6.258	6.246	0.012	8	485	10.0	18.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	23	5277	0.5000	0.4120	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	29	3578	0.5000	0.4209	
72 cis-1,3-Dichloropropene	75	6.812	6.806	0.006	47	6813	0.5000	0.4230	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	87	32292	2.50	2.56	M
74 Toluene	92	7.079	7.085	-0.006	60	11795	0.5000	0.4492	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	54	6057	0.5000	0.4188	M
75 Ethyl methacrylate	69	7.420	7.414	0.006	48	5371	0.5000	0.3788	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	20	3251	0.5000	0.4110	
81 Tetrachloroethene	166	7.621	7.615	0.006	53	5470	0.5000	0.4934	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	50	7287	0.5000	0.4368	
80 2-Hexanone	43	7.797	7.791	0.006	70	23291	2.50	2.51	
83 Chlorodibromomethane	129	7.961	7.961	0.000	7	3153	0.5000	0.3505	
84 Ethylene Dibromide	107	8.071	8.071	0.000	44	4111	0.5000	0.4125	
87 Chlorobenzene	112	8.545	8.539	0.006	18	14312	0.5000	0.4974	
88 Ethylbenzene	91	8.631	8.631	0.000	67	20981	0.5000	0.4434	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	21	3502	0.5000	0.3764	
90 m-Xylene & p-Xylene	106	8.758	8.752	0.006	0	9774	0.5000	0.5078	
91 o-Xylene	106	9.184	9.178	0.006	72	7935	0.5000	0.4343	
92 Styrene	104	9.209	9.209	0.000	67	14339	0.5000	0.4573	
95 Bromoform	173	9.470	9.464	0.006	1	2273	0.5000	0.3956	
94 Isopropylbenzene	105	9.561	9.561	0.000	72	20648	0.5000	0.4471	
101 Bromobenzene	156	9.914	9.908	0.006	52	5263	0.5000	0.4505	
97 1,1,2,2-Tetrachloroethane	83	9.975	9.969	0.006	11	6266	0.5000	0.4994	
99 N-Propylbenzene	91	9.981	9.987	-0.006	84	24869	0.5000	0.4646	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	21	2169	0.5000	0.5251	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	863	0.5000	0.7725	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	55	6958	0.5000	0.6038	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	60	19690	0.5000	0.4915	
105 4-Chlorotoluene	126	10.200	10.200	0.000	44	5066	0.5000	0.4291	
106 tert-Butylbenzene	134	10.474	10.474	0.000	63	3254	0.5000	0.3810	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	48	19410	0.5000	0.4744	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	52	22963	0.5000	0.4780	
111 1,3-Dichlorobenzene	146	10.833	10.827	0.006	46	11042	0.5000	0.4864	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	53	18853	0.5000	0.4560	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	34	9616	0.5000	0.4154	M
115 n-Butylbenzene	91	11.210	11.210	0.000	68	16036	0.5000	0.4301	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	64	10152	0.5000	0.4543	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	1	1363	0.5000	0.5598	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	29	6943	0.5000	0.4369	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	6	3906	0.5000	0.5141	M
121 Naphthalene	128	12.883	12.877	0.006	77	18558	0.5000	0.4272	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	36	5745	0.5000	0.3920	
S 123 Total BTEX	1				0			2.32	
S 125 1,2-Dichloroethene, Total	1				0			0.8722	
S 124 Xylenes, Total	1				0			0.9421	
S 126 1,3-Dichloropropene, Total	1				0			0.8418	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

8260 CORP mix_00128	Amount Added:	0.50	Units: uL	
GAS CORP mix_00287	Amount Added:	0.50	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

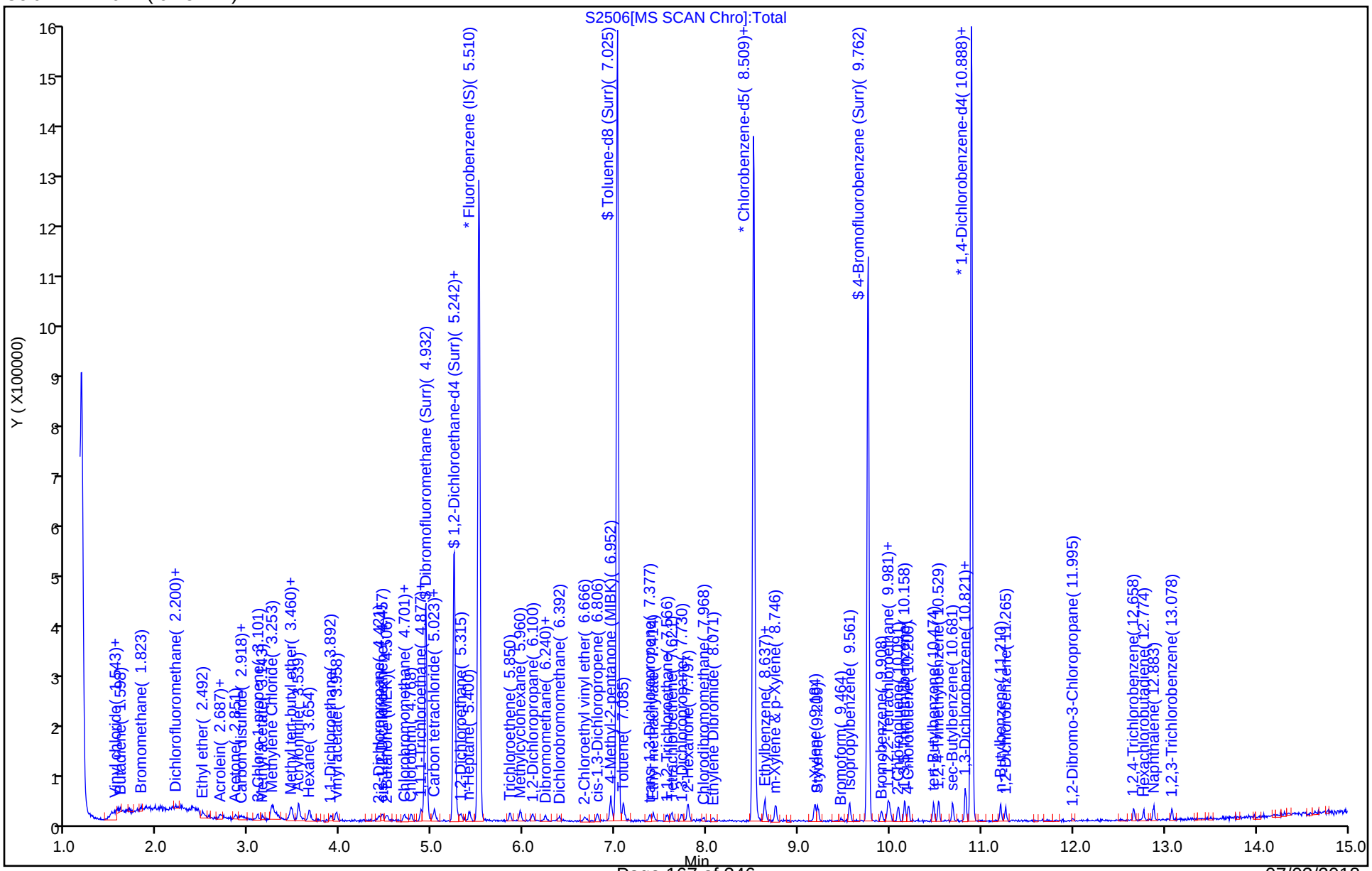
Report Date: 21-Jun-2018 14:25:36 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D

Injection Date:	20-Jun-2018 13:51:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	IC 0.5			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

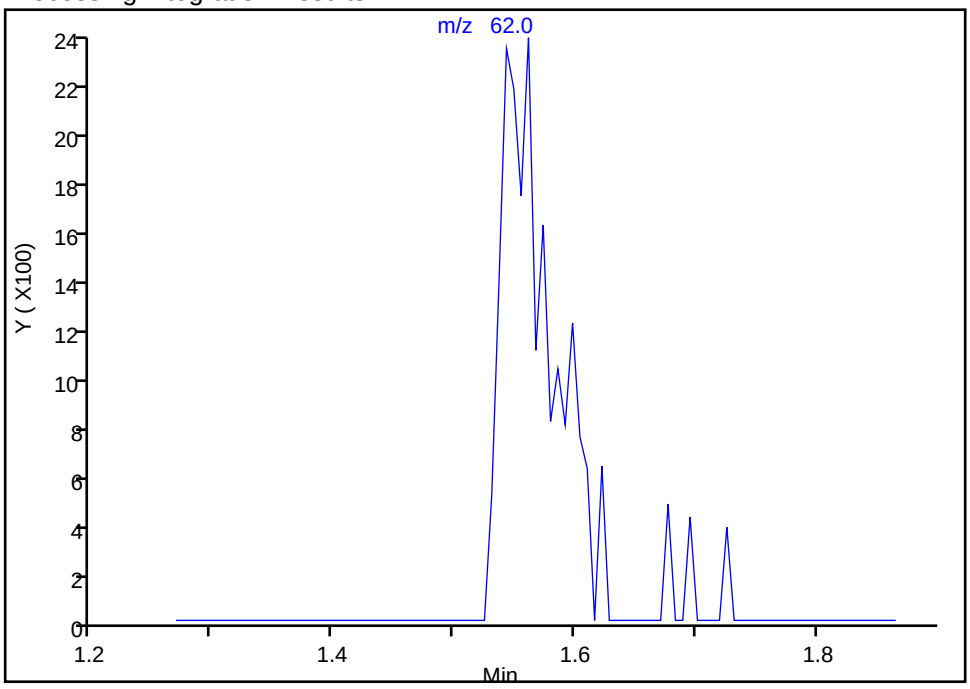
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

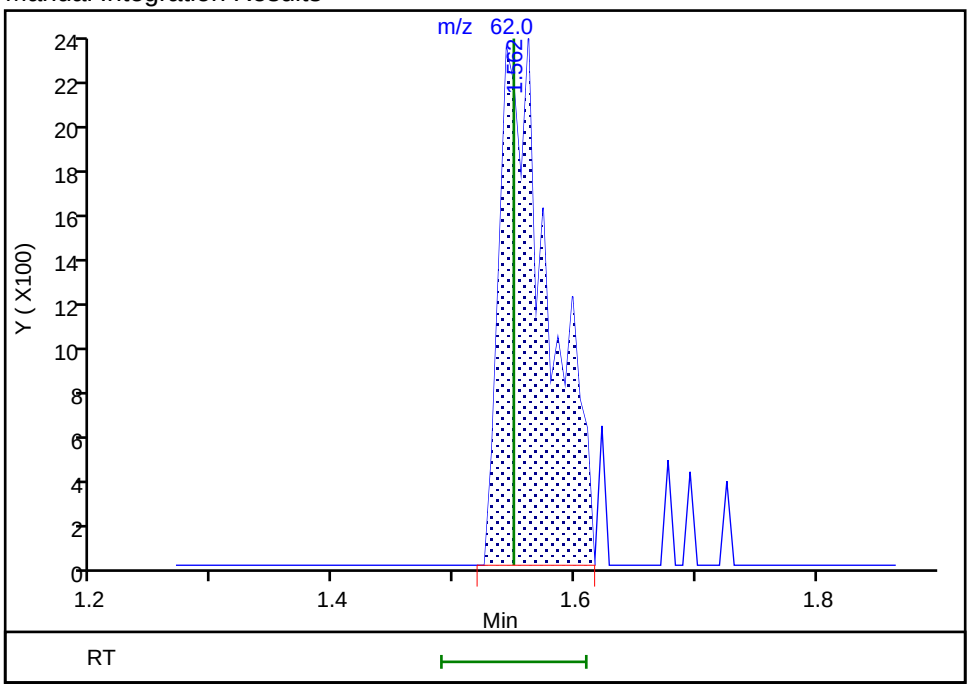
Not Detected
Expected RT: 1.55

Processing Integration Results



Manual Integration Results

RT: 1.56
Area: 6596
Amount: 0.487086
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:40:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

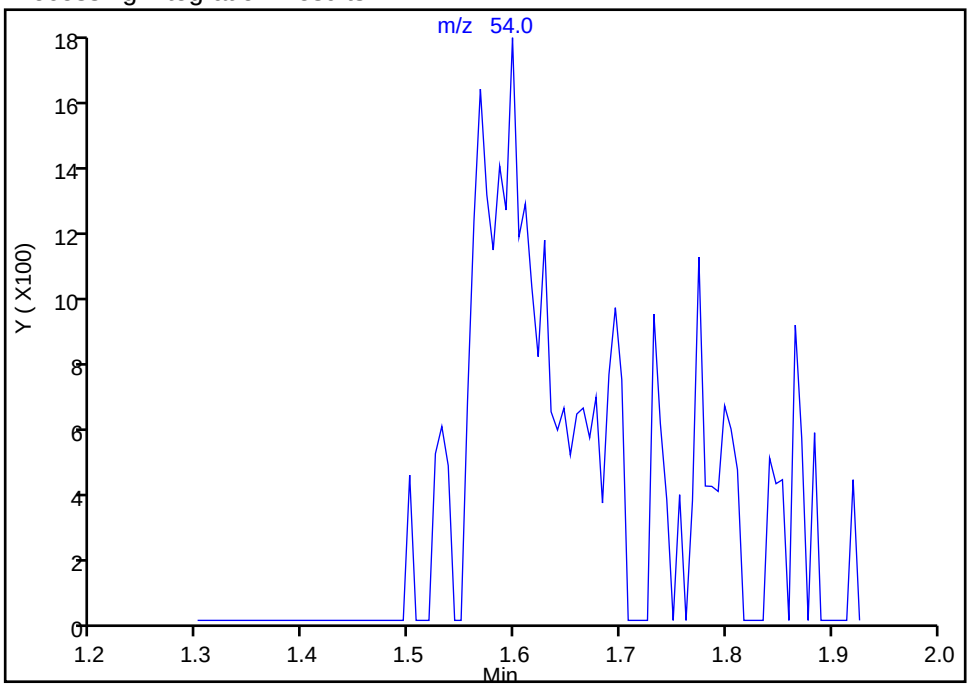
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

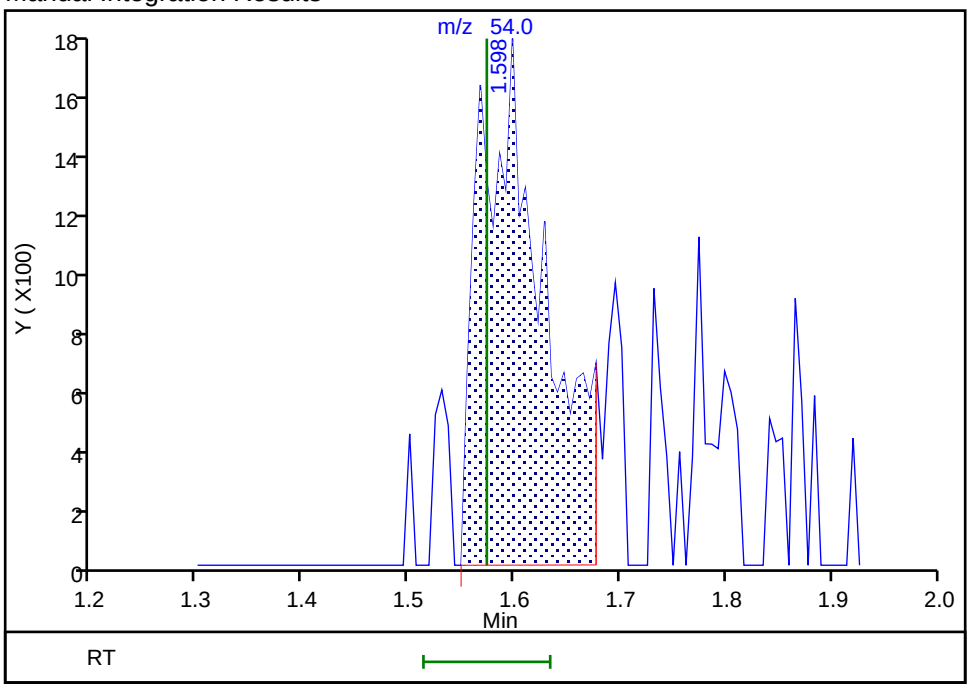
Not Detected
Expected RT: 1.57

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 7413
Amount: 0.524880
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:56:38
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

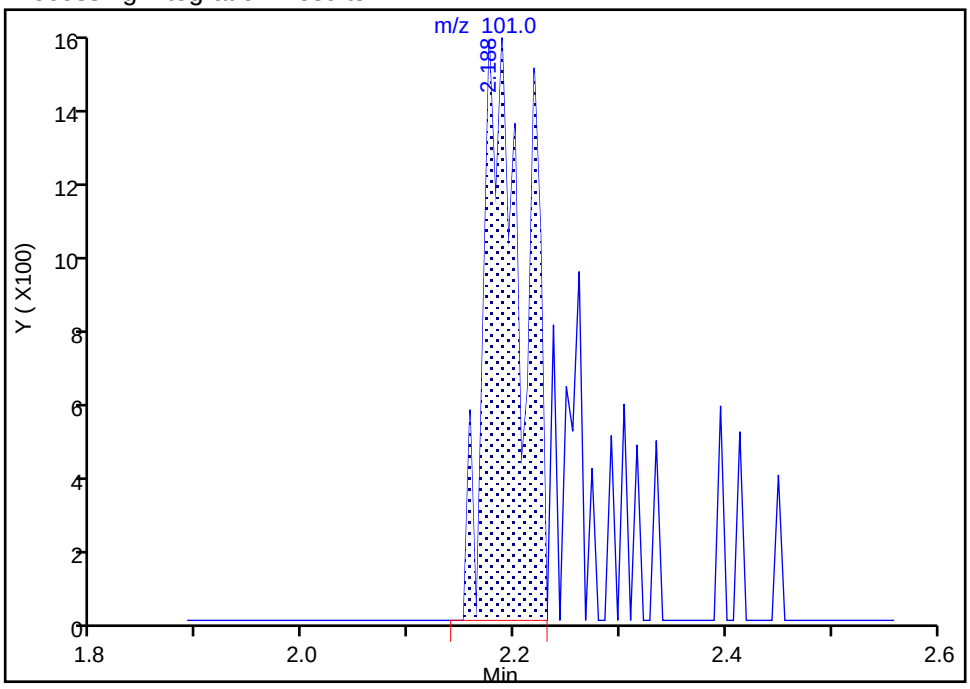
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

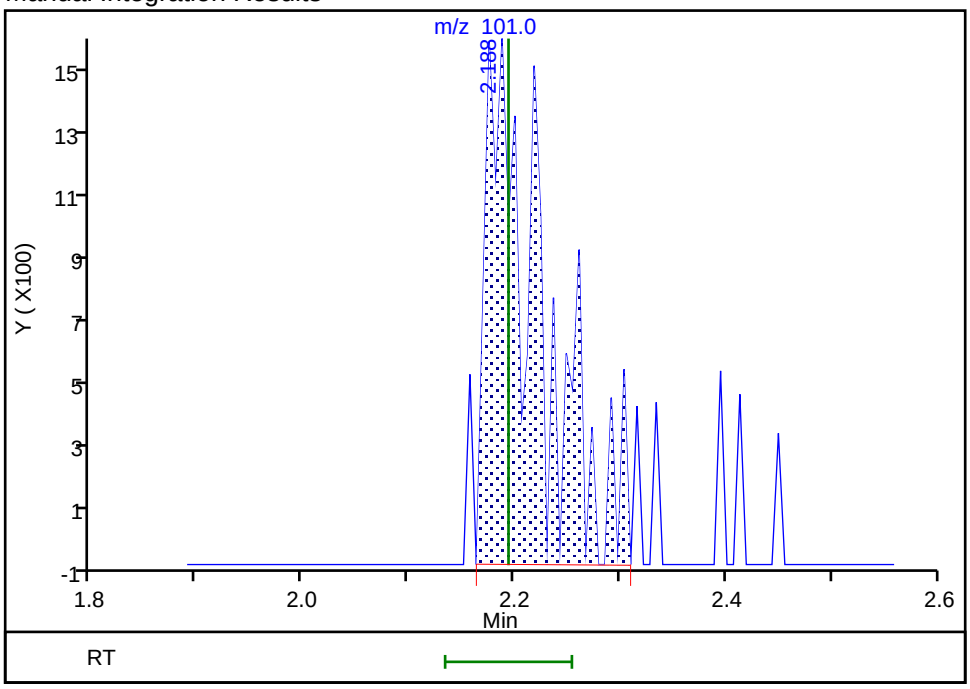
Processing Integration Results

RT: 2.19
Area: 4042
Amount: 0.598811
Amount Units: ug/L



Manual Integration Results

RT: 2.19
Area: 5380
Amount: 0.419280
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:45:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

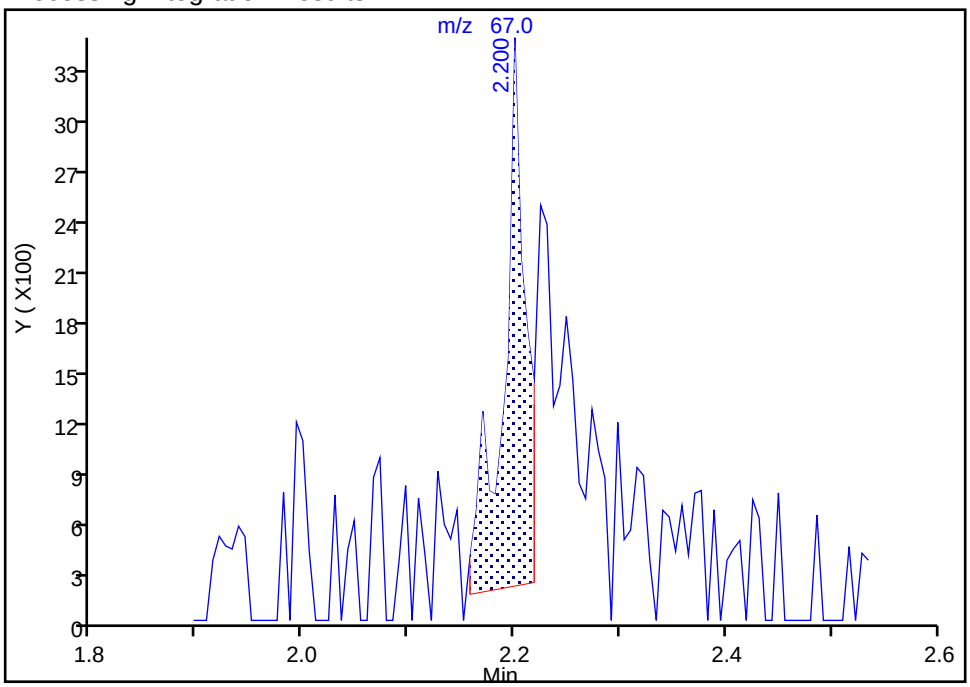
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

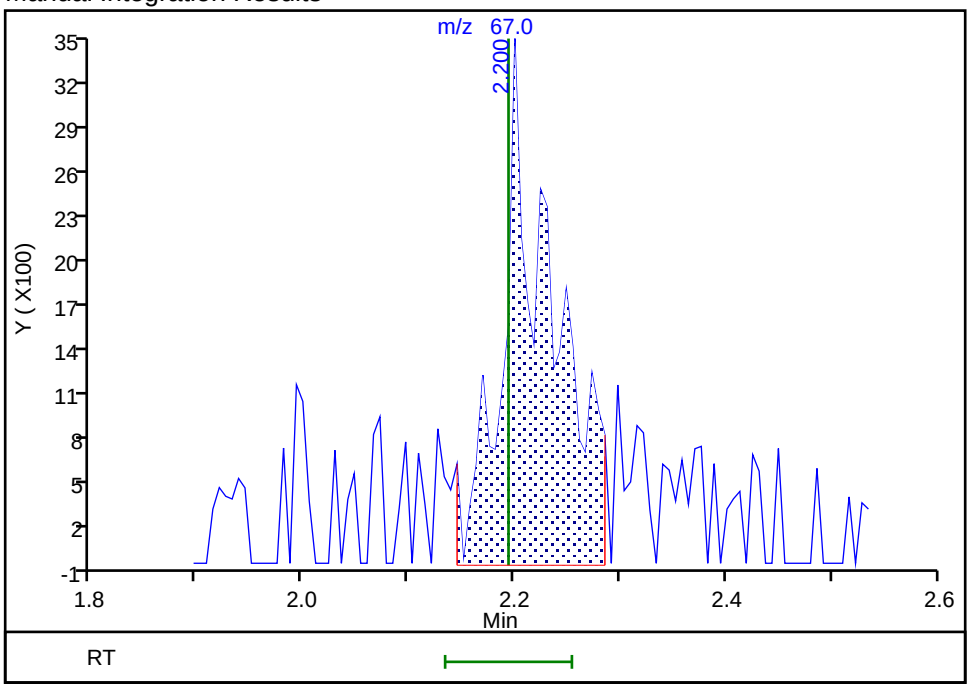
Processing Integration Results

RT: 2.20
Area: 4764
Amount: 0.316635
Amount Units: ug/L



Manual Integration Results

RT: 2.20
Area: 11460
Amount: 0.638193
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:41:07
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

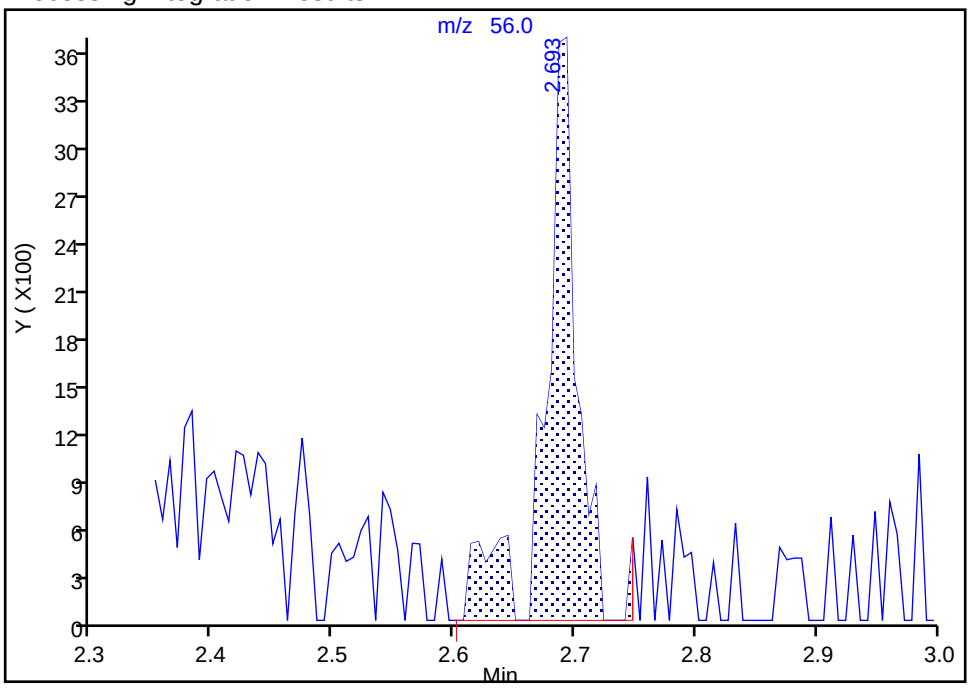
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

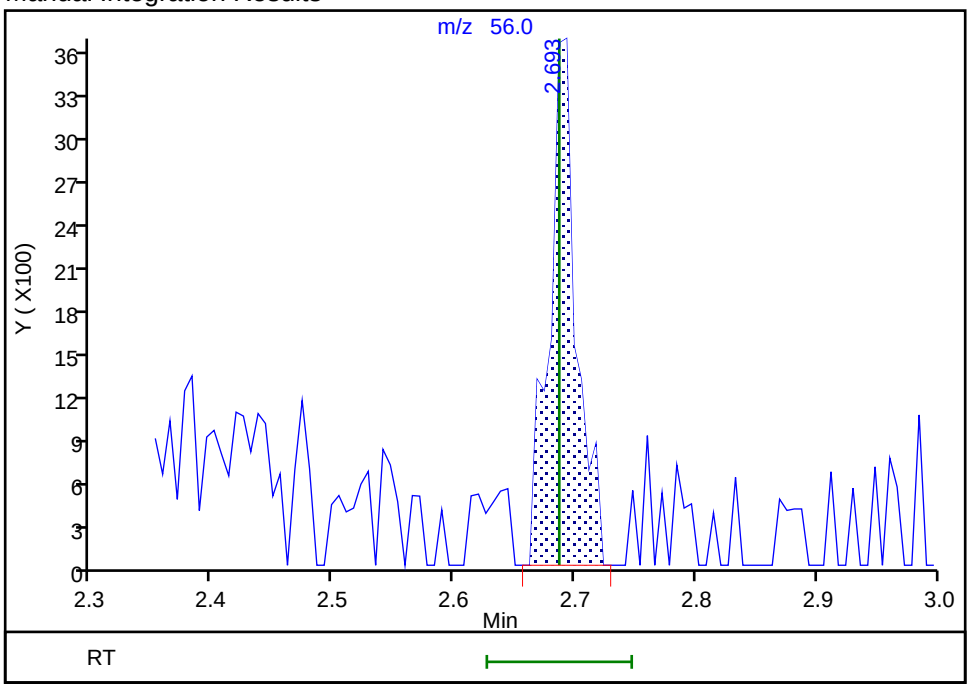
Processing Integration Results

RT: 2.69
Area: 6846
Amount: 3.145829
Amount Units: ug/L



Manual Integration Results

RT: 2.69
Area: 5643
Amount: 2.581028
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:42:04
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

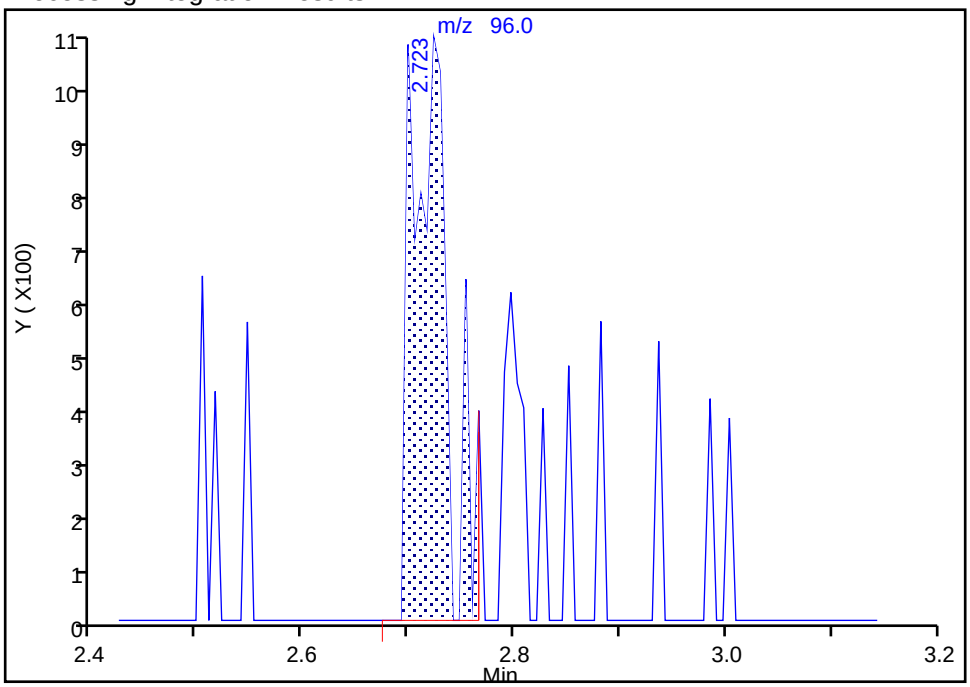
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

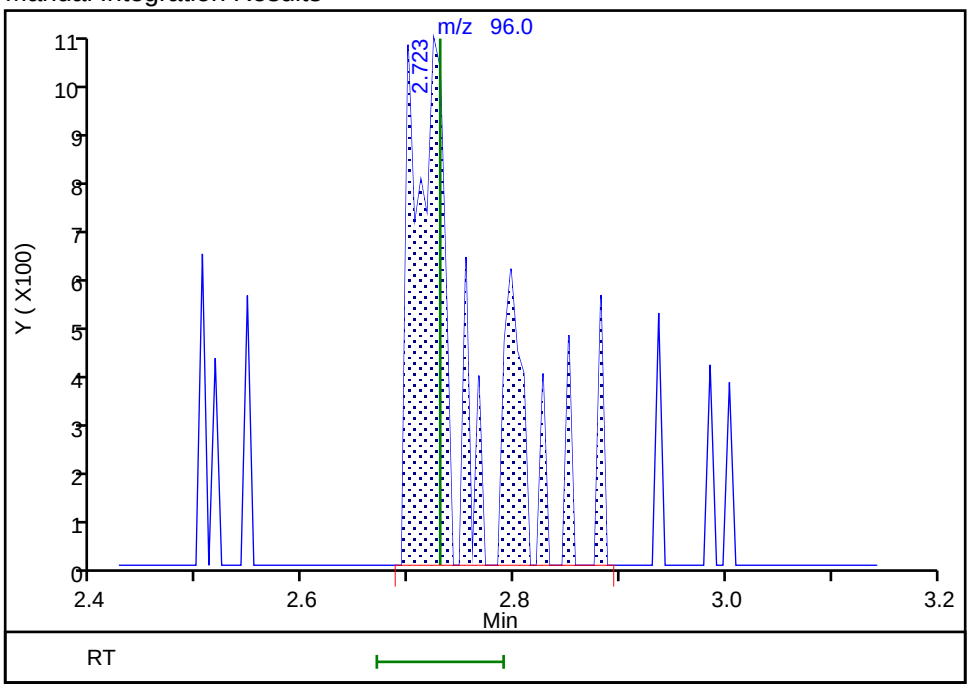
Processing Integration Results

RT: 2.72
Area: 2399
Amount: 0.270204
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 3550
Amount: 0.403737
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:47:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

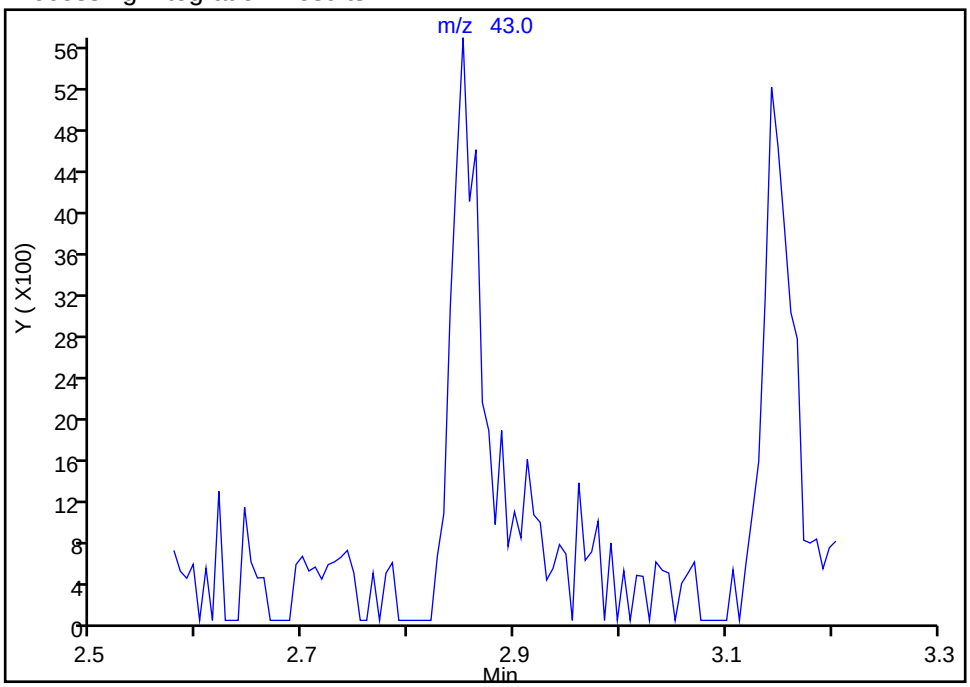
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

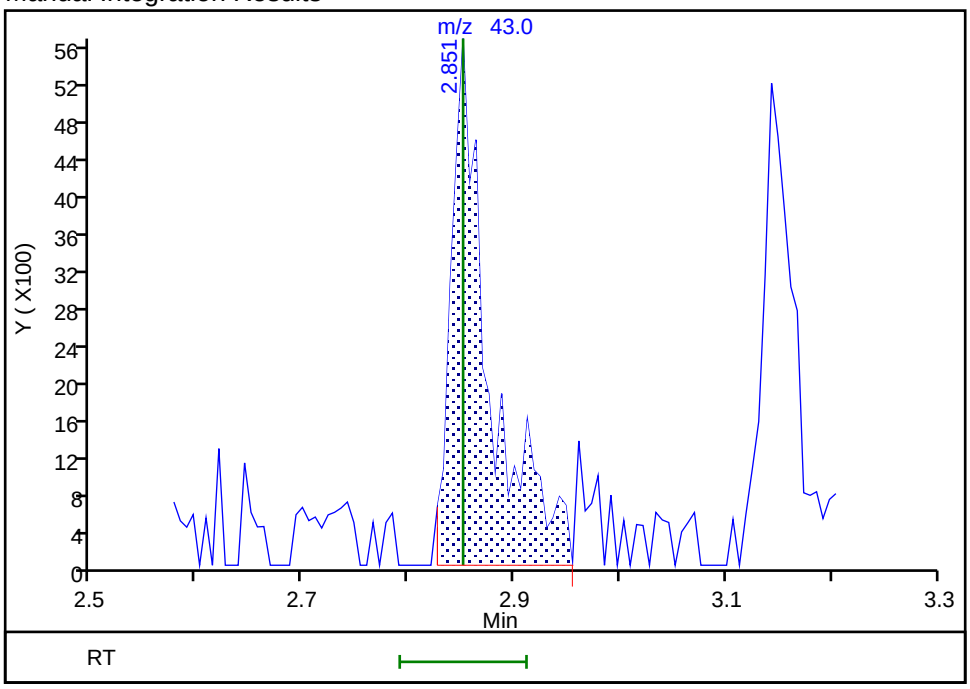
Not Detected
Expected RT: 2.85

Processing Integration Results



Manual Integration Results

RT: 2.85
Area: 13929
Amount: 3.637017
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:42:59
Audit Action: Split an Integrated Peak Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

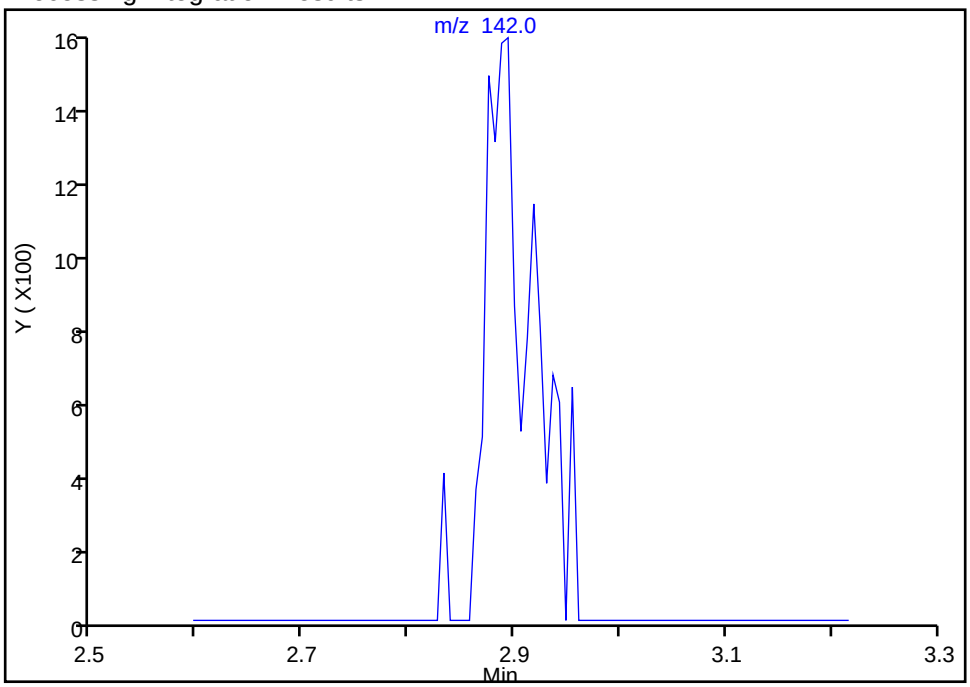
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

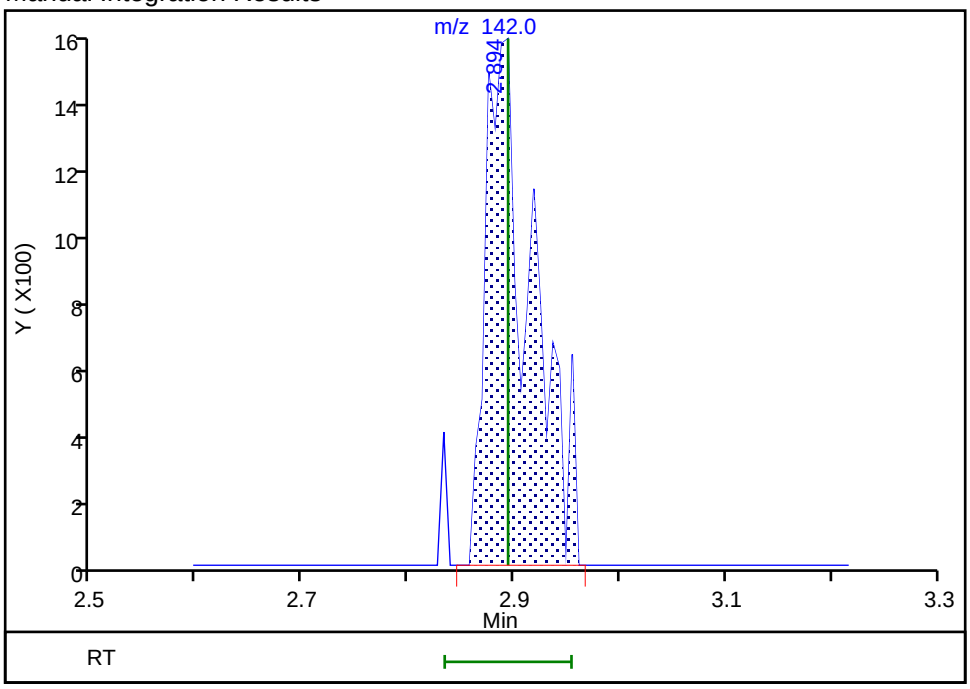
Not Detected
Expected RT: 2.89

Processing Integration Results



Manual Integration Results

RT: 2.89
Area: 4781
Amount: 0.371790
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:57:46
Audit Action: Assigned Compound ID Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

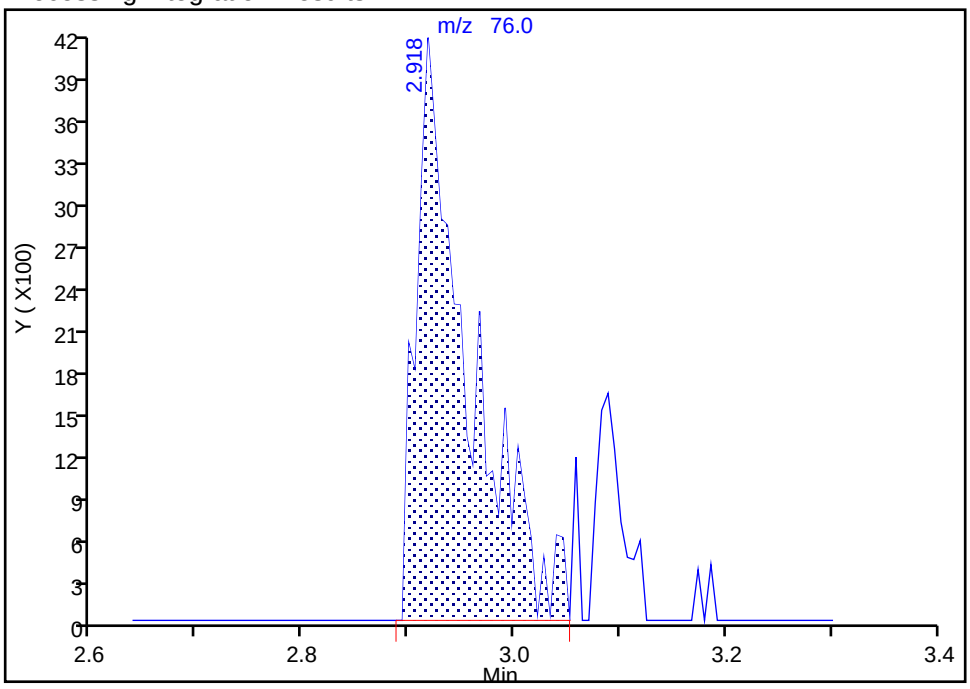
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

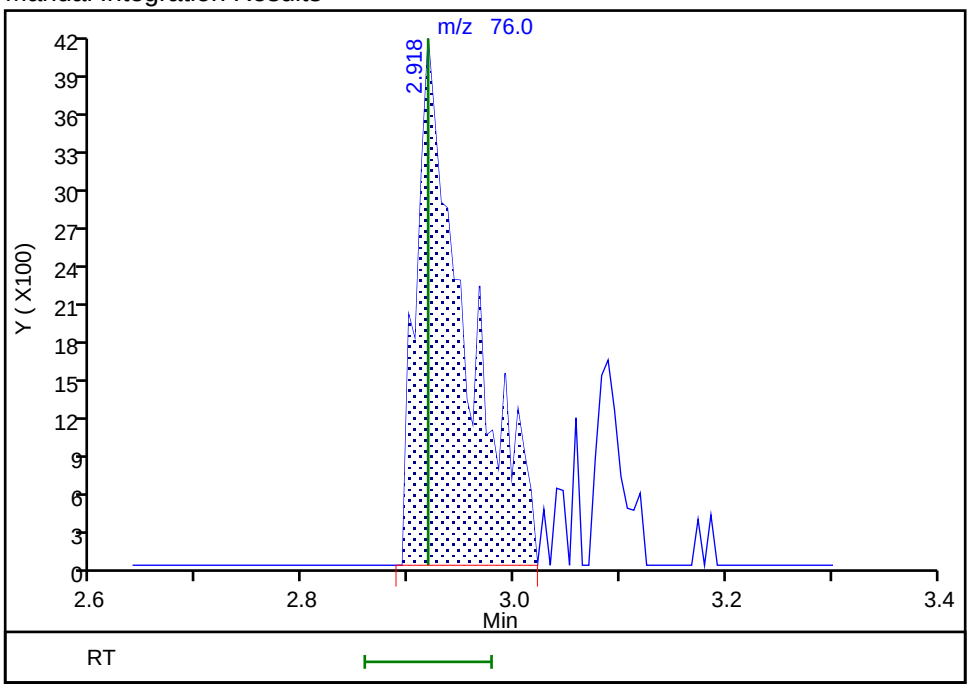
Processing Integration Results

RT: 2.92
Area: 14115
Amount: 0.500876
Amount Units: ug/L



Manual Integration Results

RT: 2.92
Area: 13516
Amount: 0.482183
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:58:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

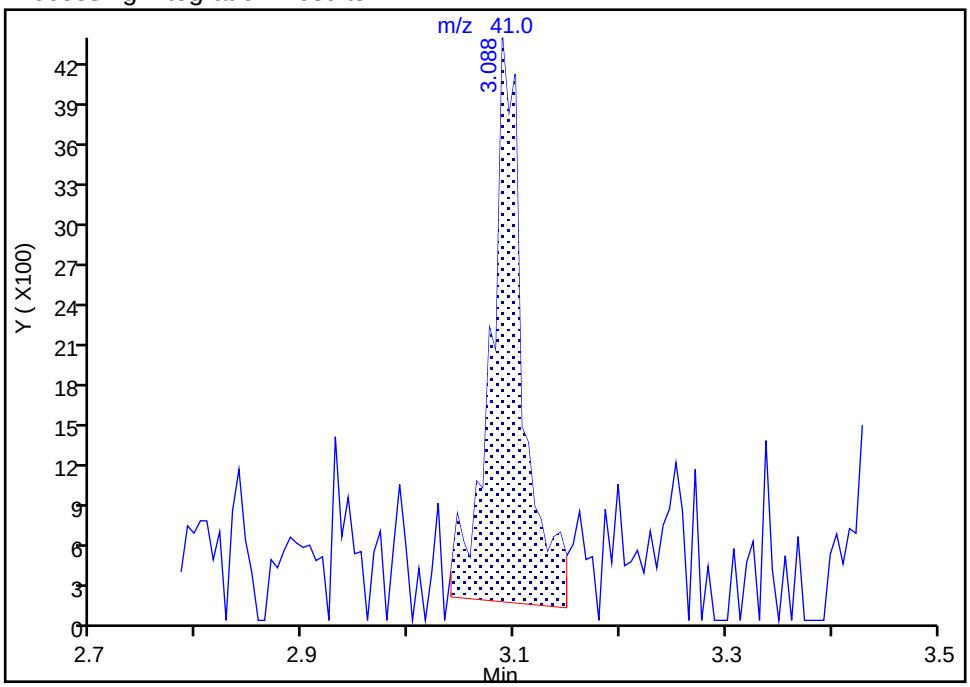
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

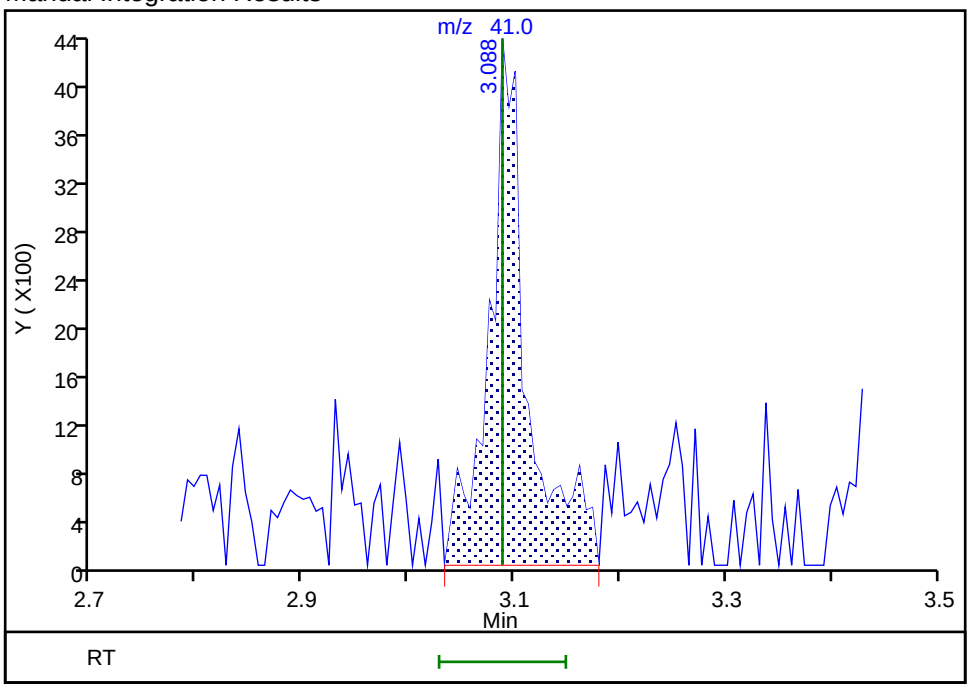
Processing Integration Results

RT: 3.09
Area: 8961
Amount: 0.540219
Amount Units: ug/L



Manual Integration Results

RT: 3.09
Area: 10726
Amount: 0.629202
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:55:59
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

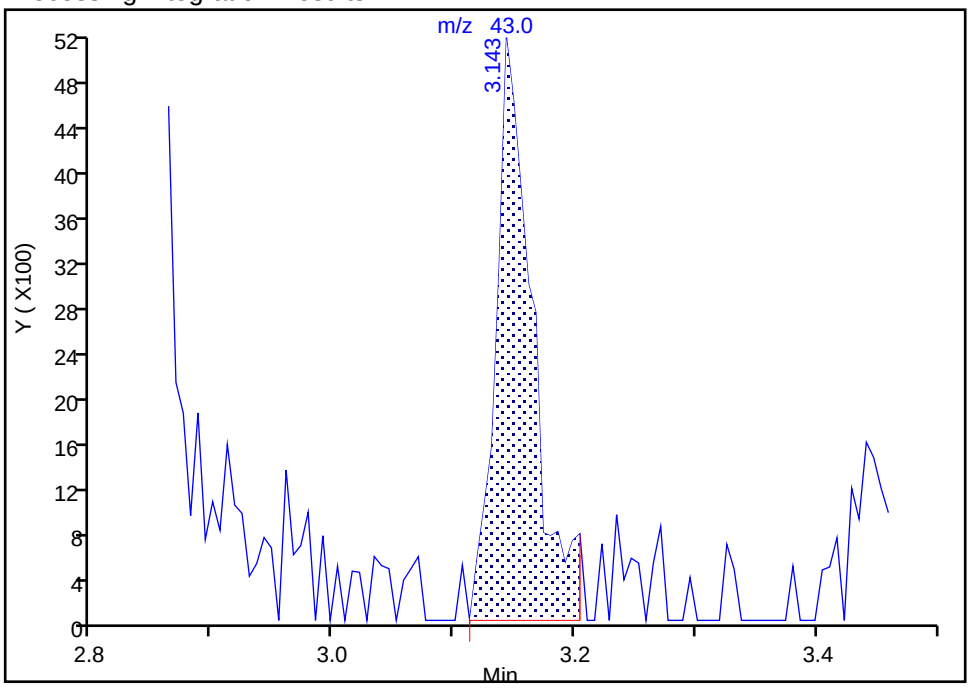
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

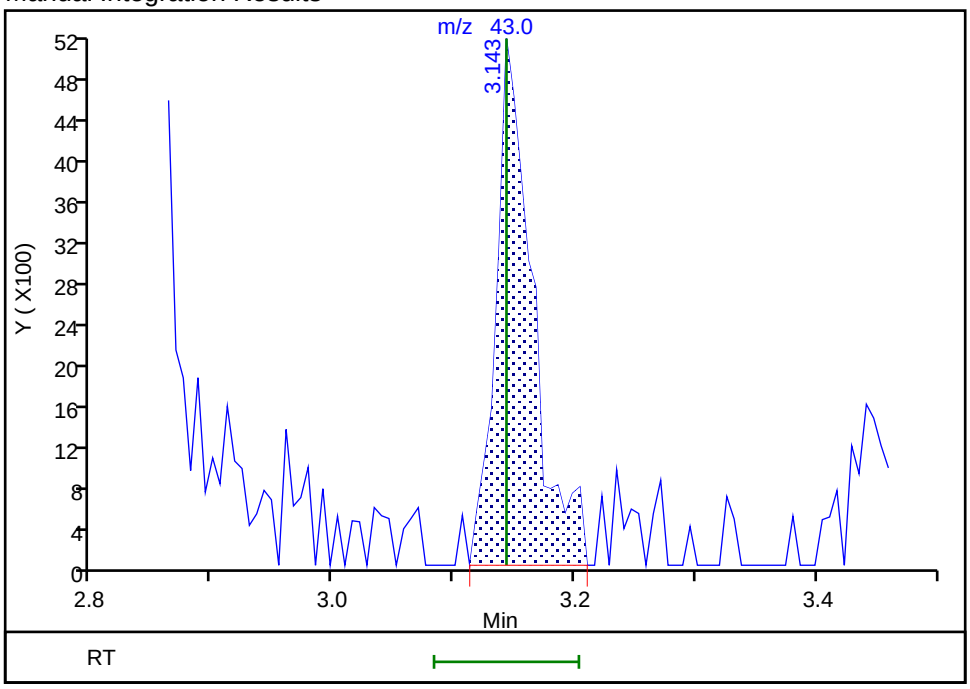
Processing Integration Results

RT: 3.14
Area: 10797
Amount: 1.072511
Amount Units: ug/L



Manual Integration Results

RT: 3.14
Area: 10797
Amount: 1.073869
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 11:58:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

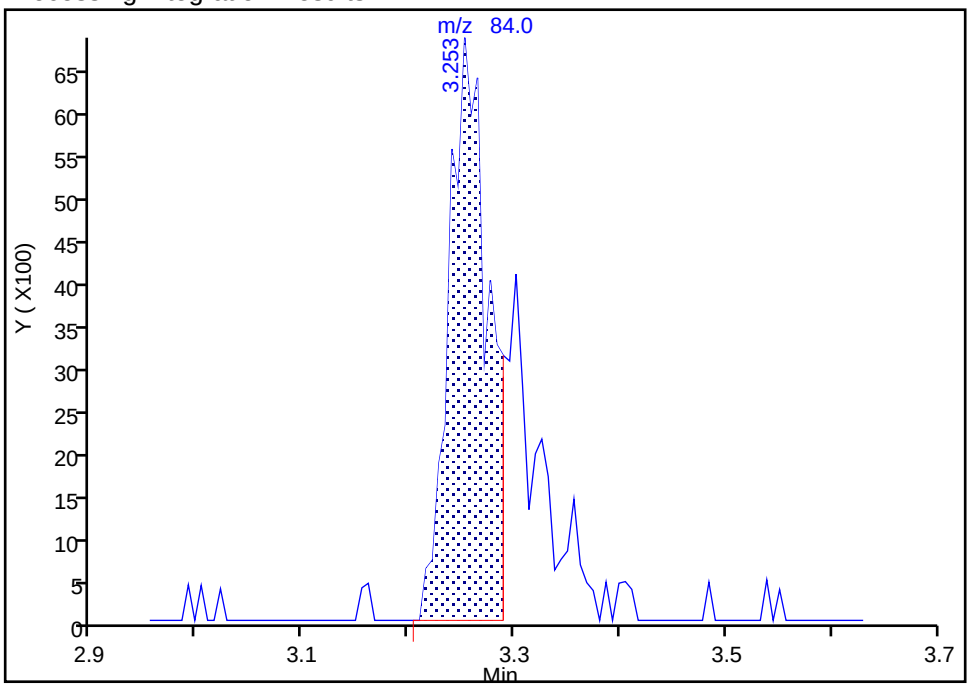
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

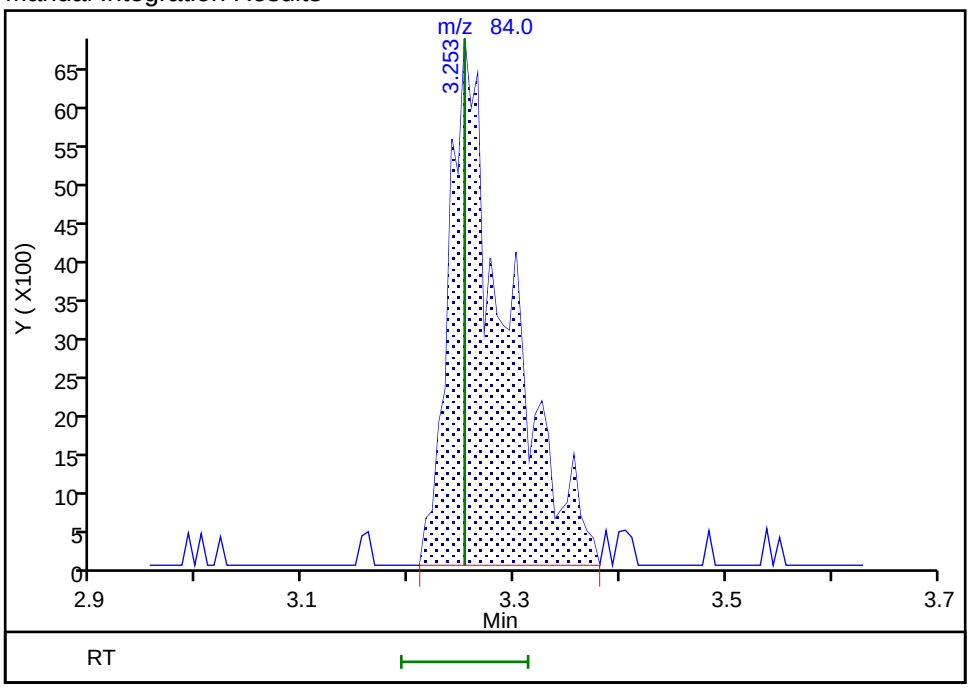
Processing Integration Results

RT: 3.25
Area: 17805
Amount: 1.289031
Amount Units: ug/L



Manual Integration Results

RT: 3.25
Area: 25876
Amount: 0.589276
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:43:43
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

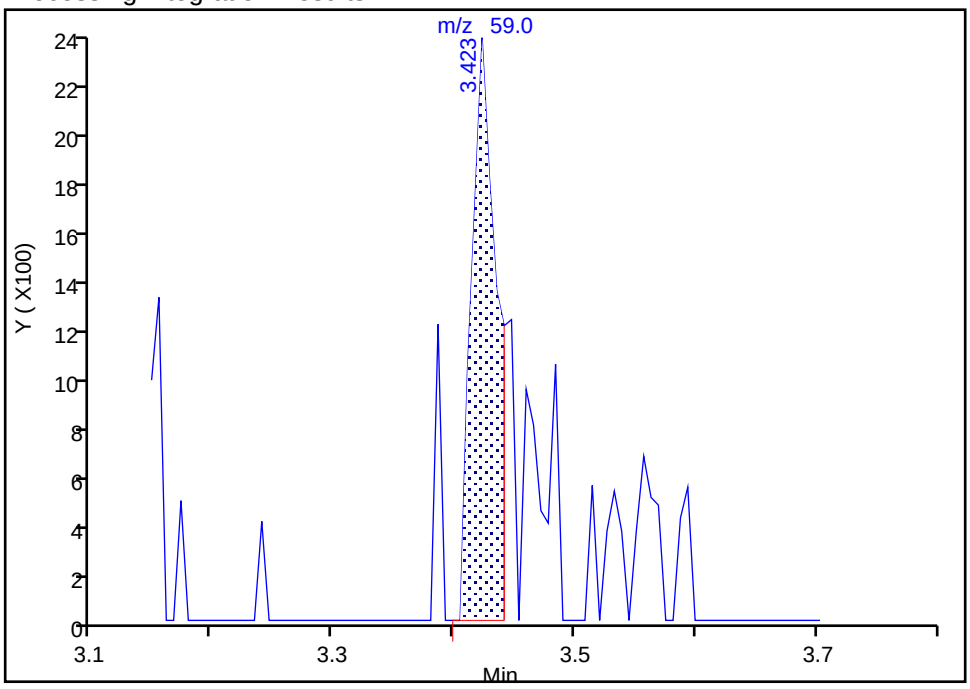
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

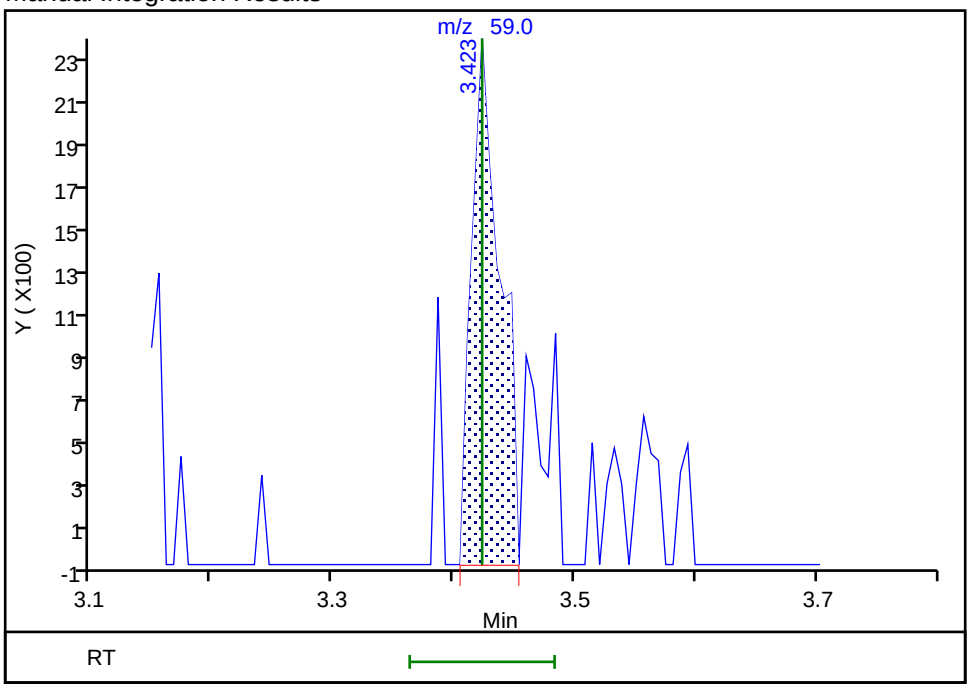
Processing Integration Results

RT: 3.42
Area: 3386
Amount: 3.028648
Amount Units: ug/L



Manual Integration Results

RT: 3.42
Area: 3836
Amount: 2.956164
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:47:12
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

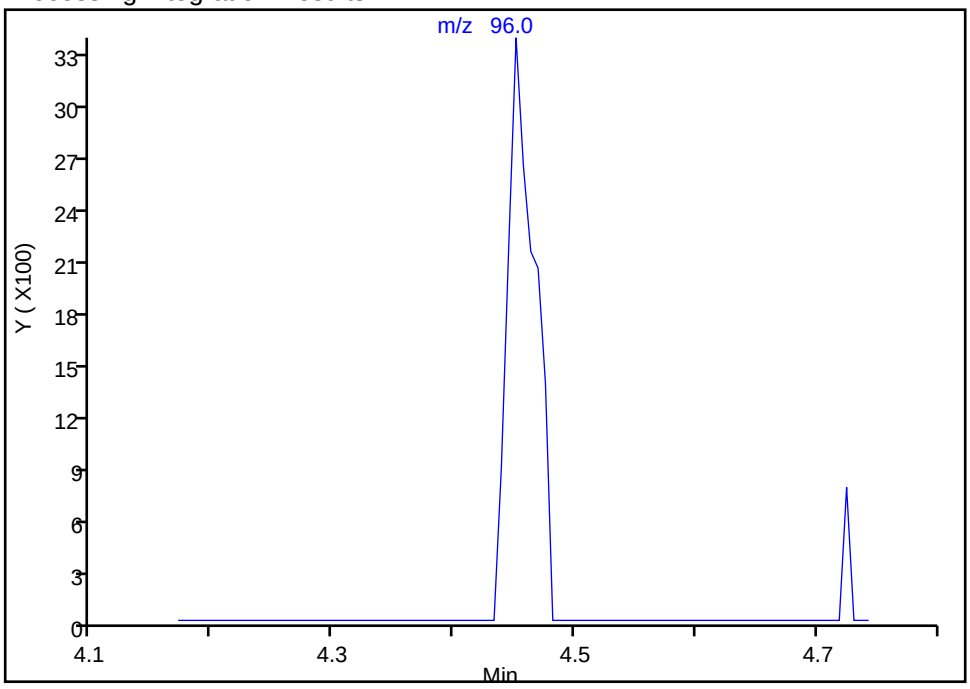
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

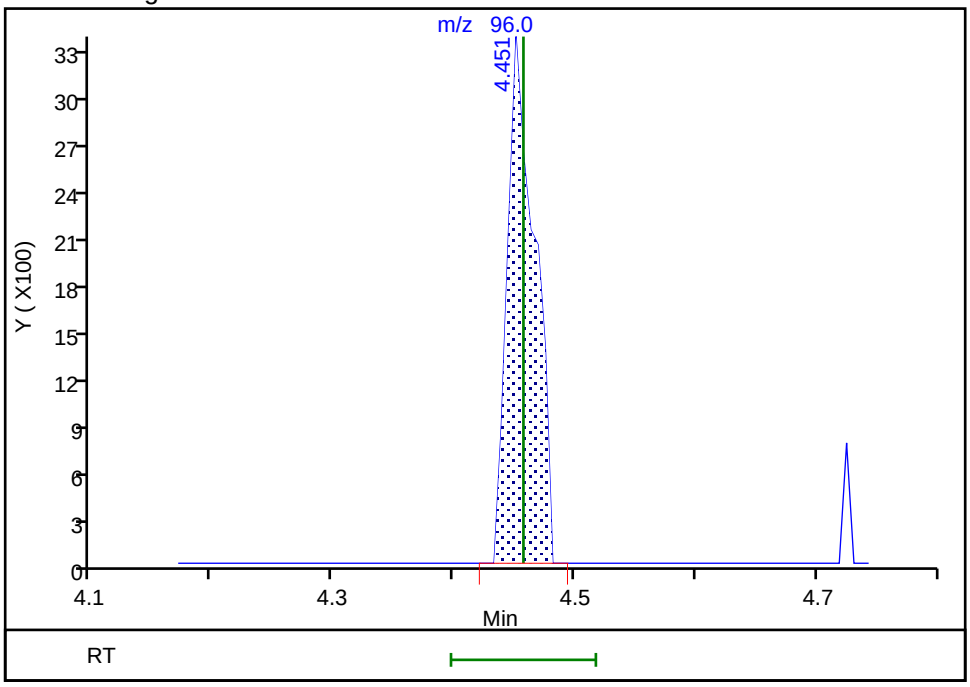
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.45
Area: 5275
Amount: 0.456176
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:43:54
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

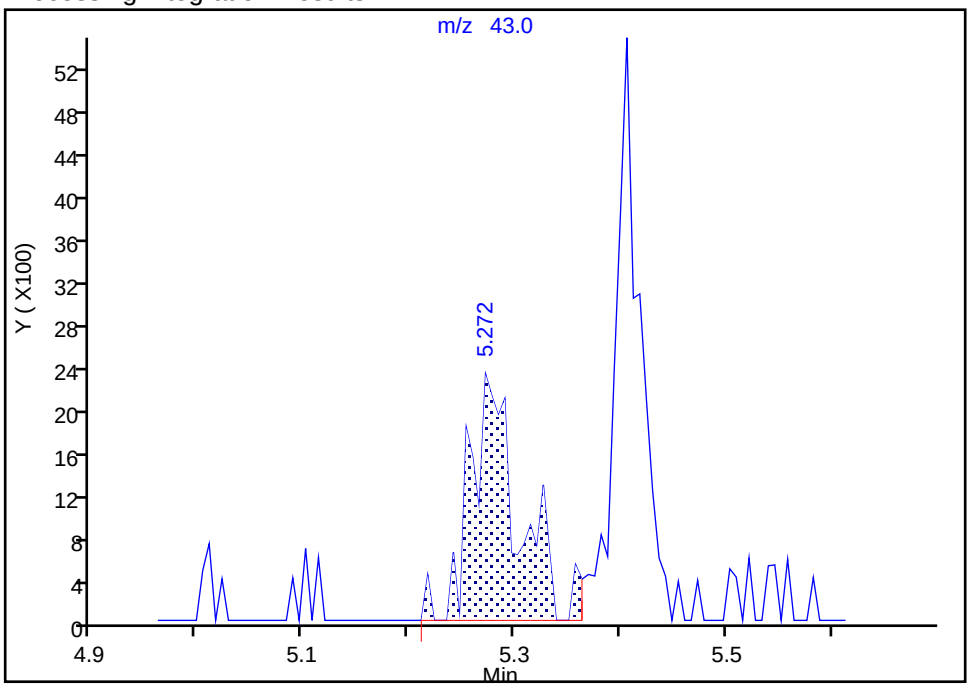
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

53 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

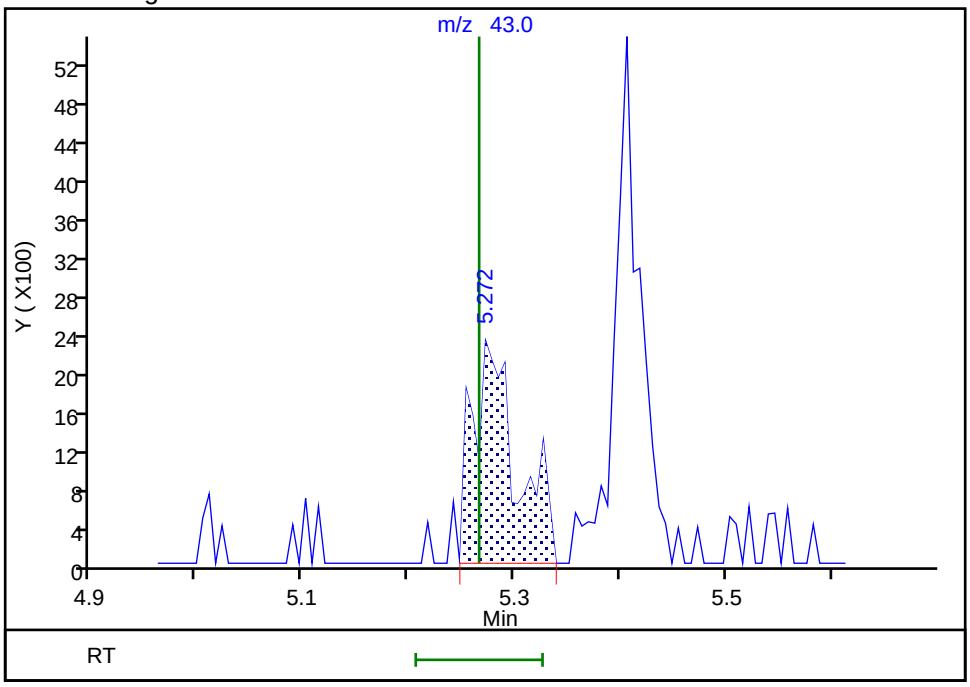
Processing Integration Results

RT: 5.27
Area: 7407
Amount: 13.382108
Amount Units: ug/L



Manual Integration Results

RT: 5.27
Area: 6683
Amount: 12.234095
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:00:59
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

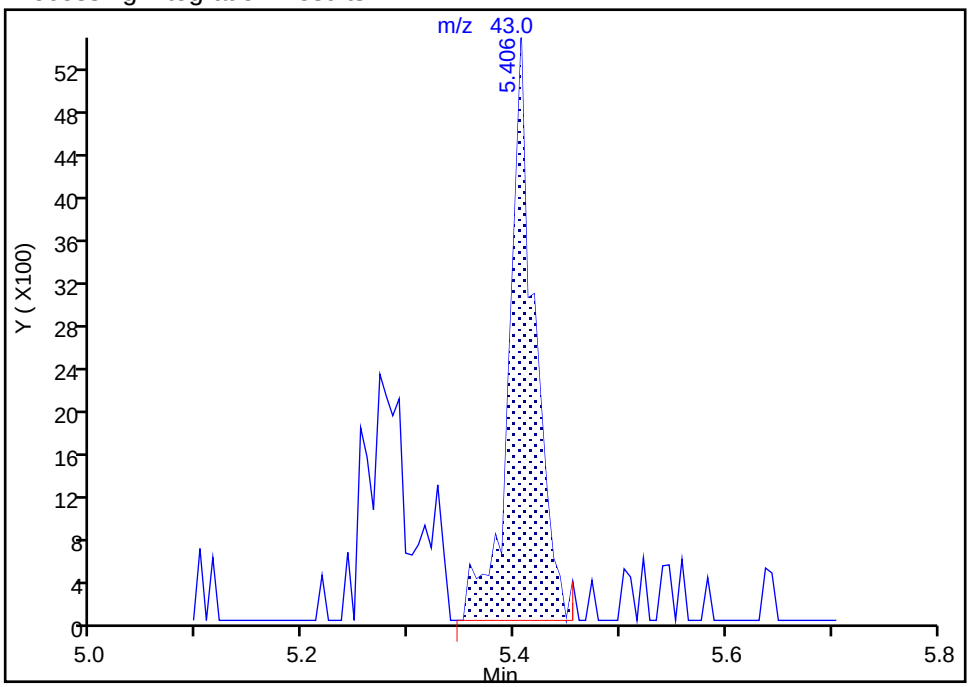
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

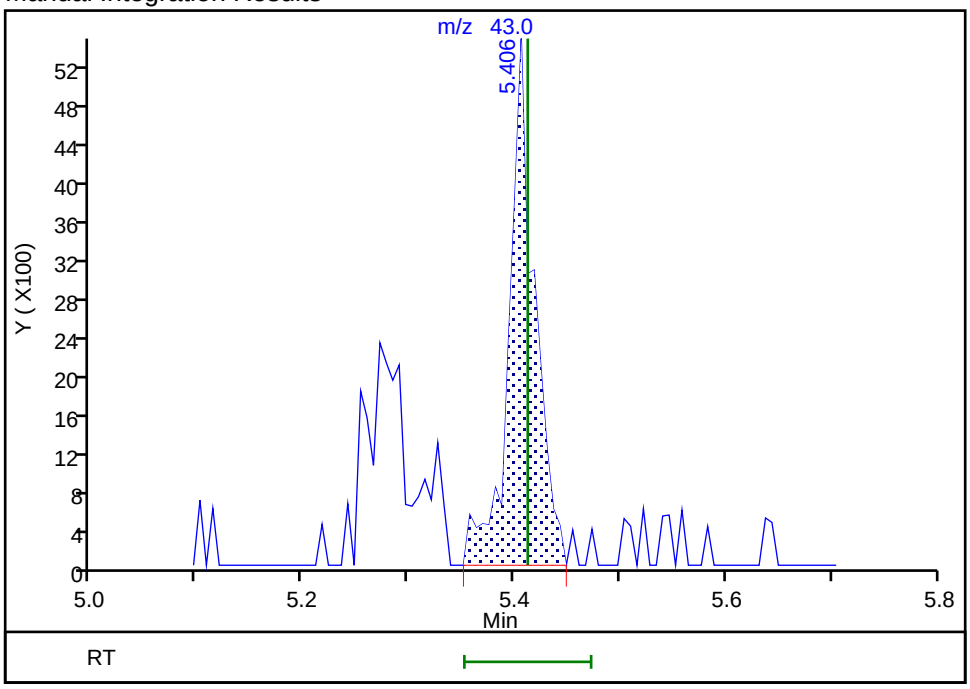
Processing Integration Results

RT: 5.41
Area: 9374
Amount: 0.547303
Amount Units: ug/L



Manual Integration Results

RT: 5.41
Area: 9240
Amount: 0.535437
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:01:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

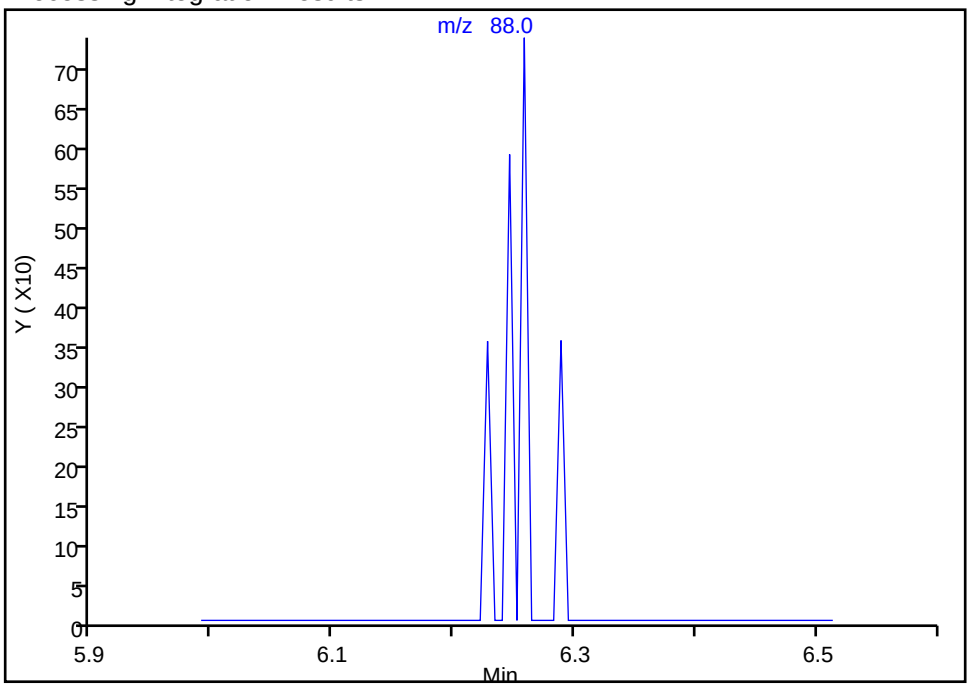
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

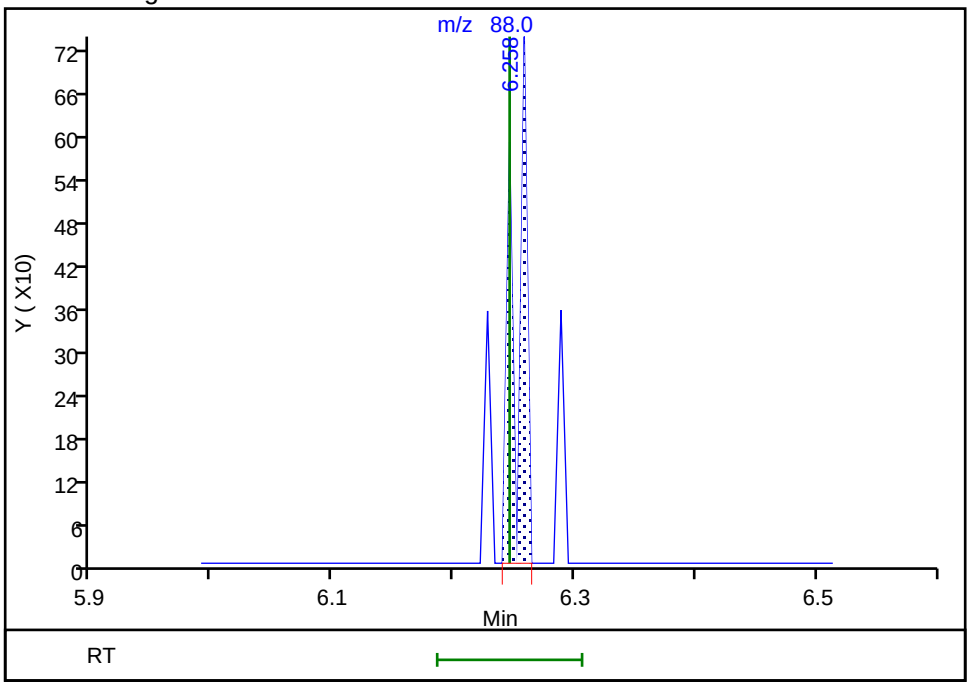
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 485
Amount: 18.689662
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:10
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

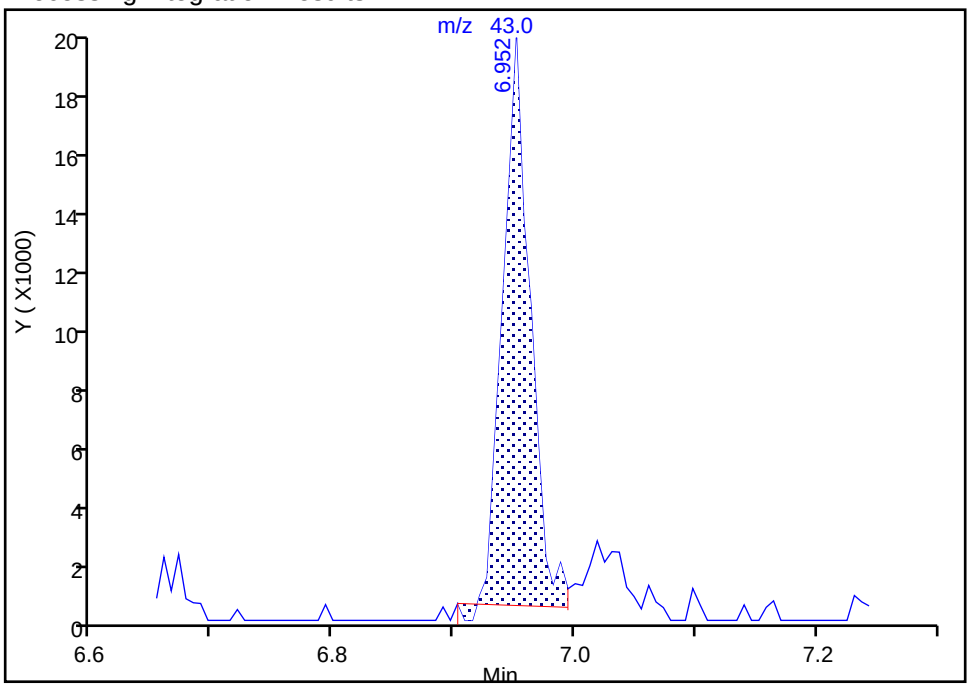
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

73 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Signal: 1

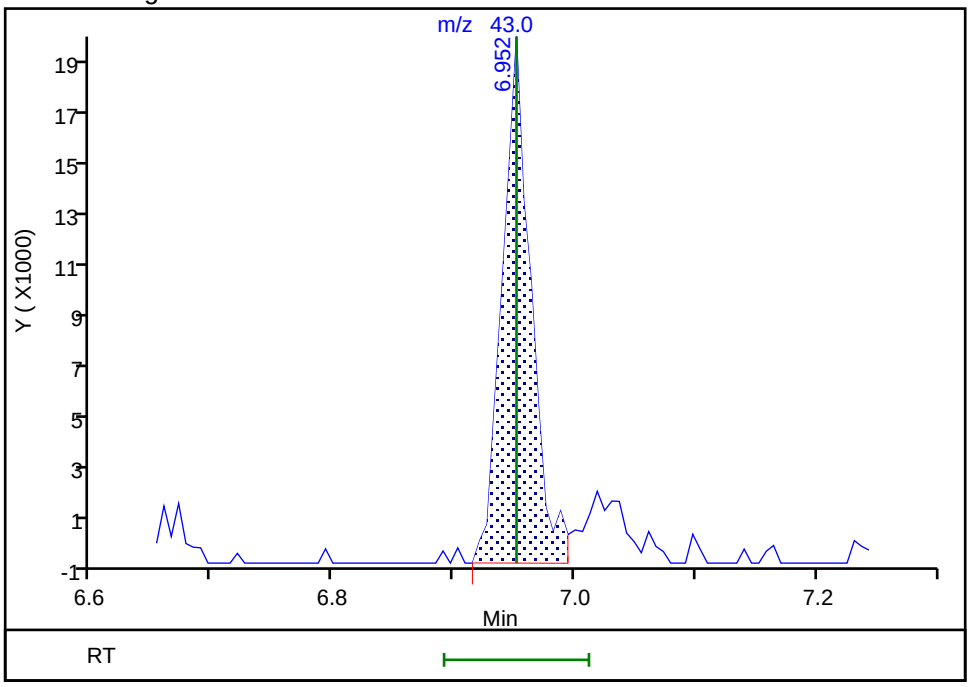
Processing Integration Results

RT: 6.95
Area: 29564
Amount: 2.370232
Amount Units: ug/L



Manual Integration Results

RT: 6.95
Area: 32292
Amount: 2.560938
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:03:07
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

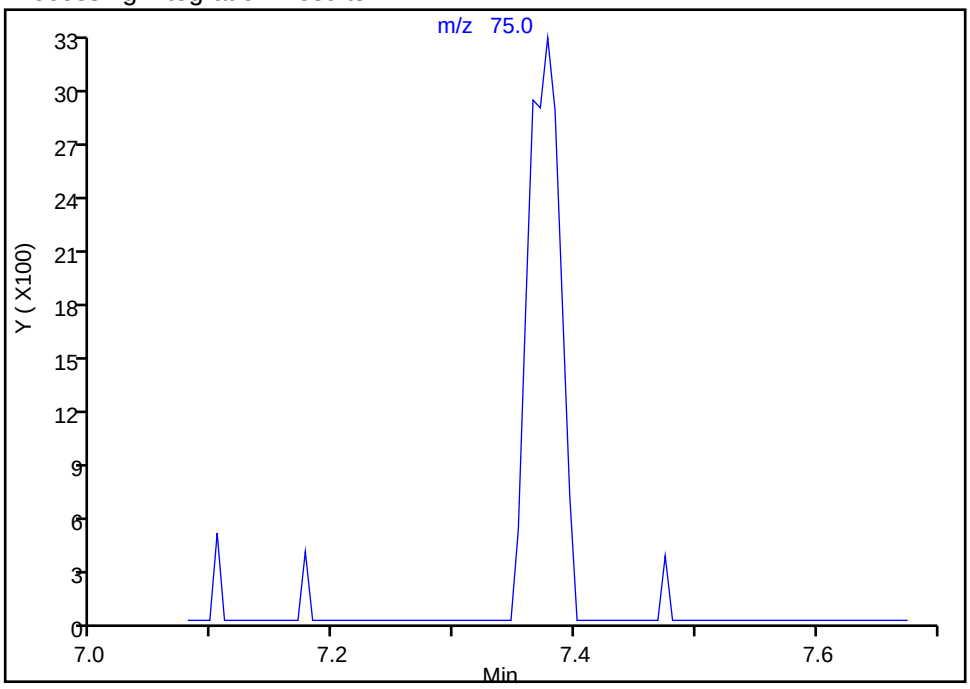
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

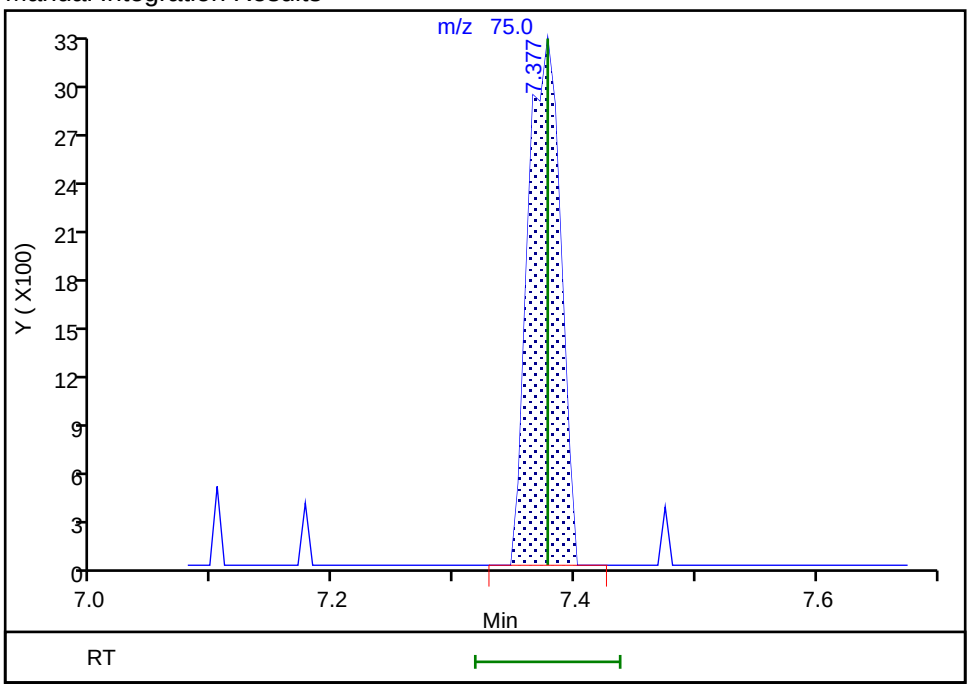
Not Detected
Expected RT: 7.38

Processing Integration Results



Manual Integration Results

RT: 7.38
Area: 6057
Amount: 0.418787
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:20
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

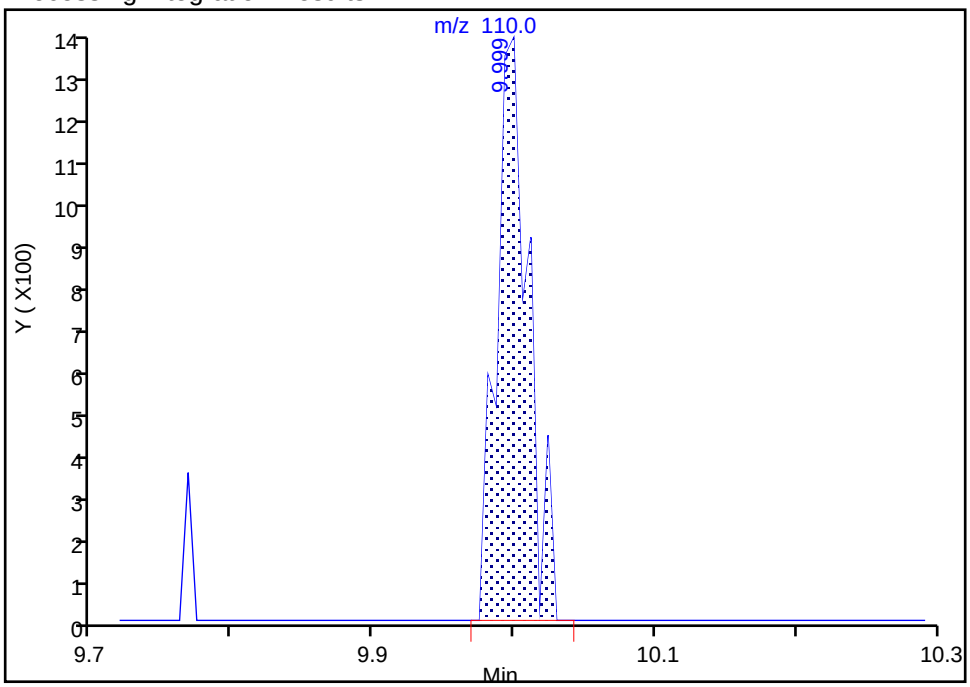
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

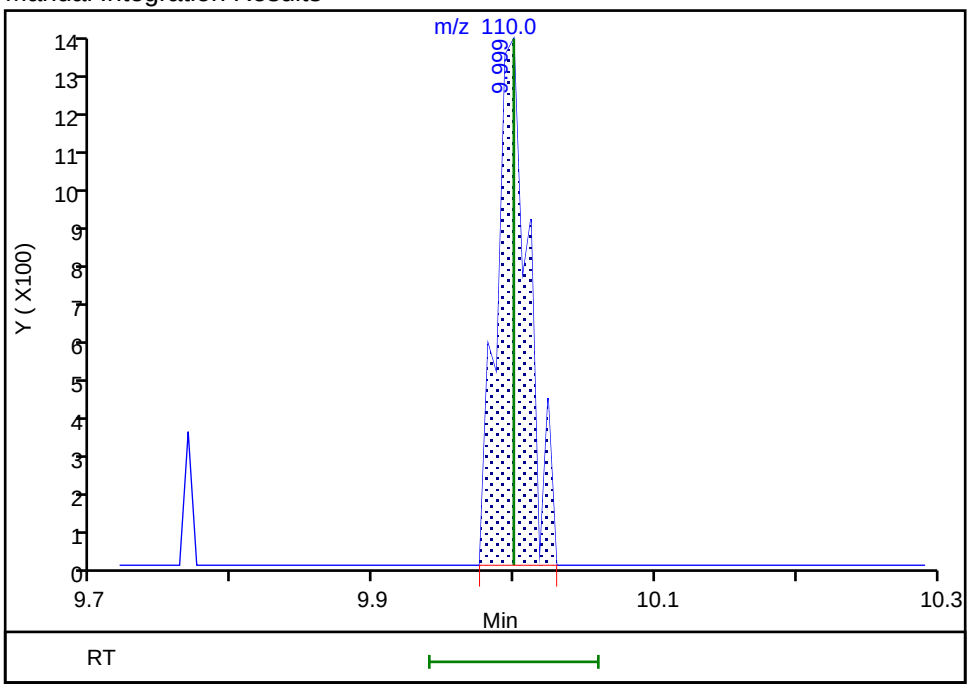
Processing Integration Results

RT: 10.00
Area: 2169
Amount: 0.520804
Amount Units: ug/L



Manual Integration Results

RT: 10.00
Area: 2169
Amount: 0.525119
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:04:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

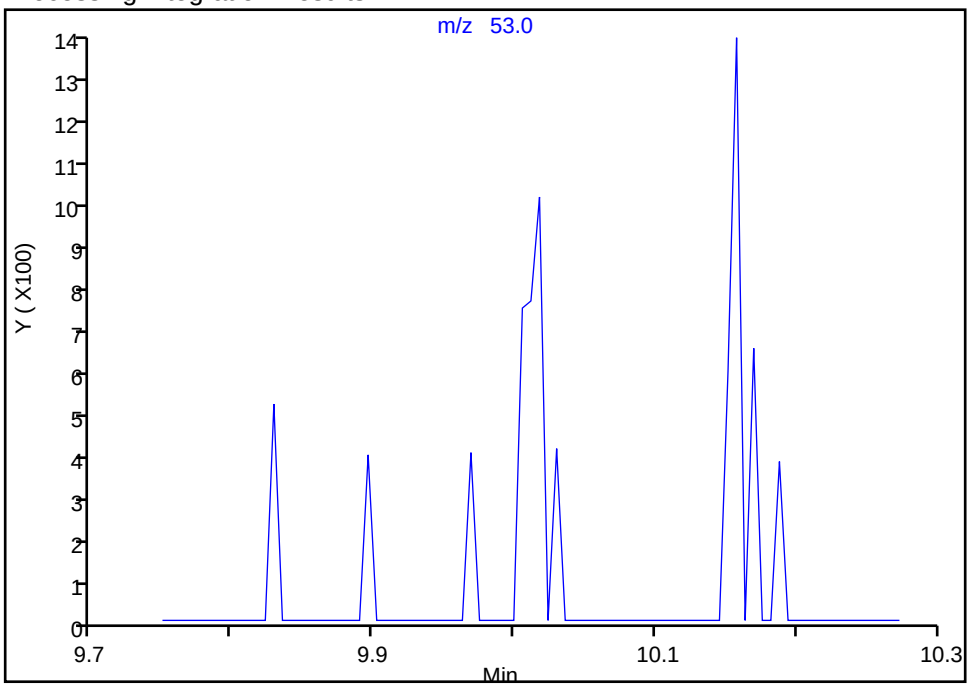
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

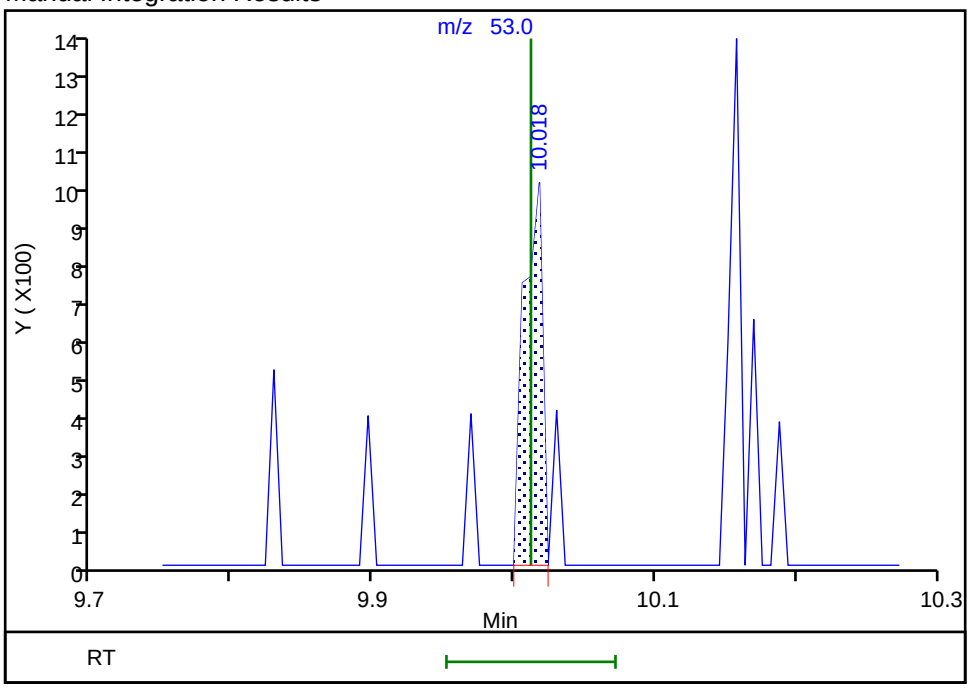
Not Detected
Expected RT: 10.01

Processing Integration Results



Manual Integration Results

RT: 10.02
Area: 863
Amount: 0.772476
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:04:23
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

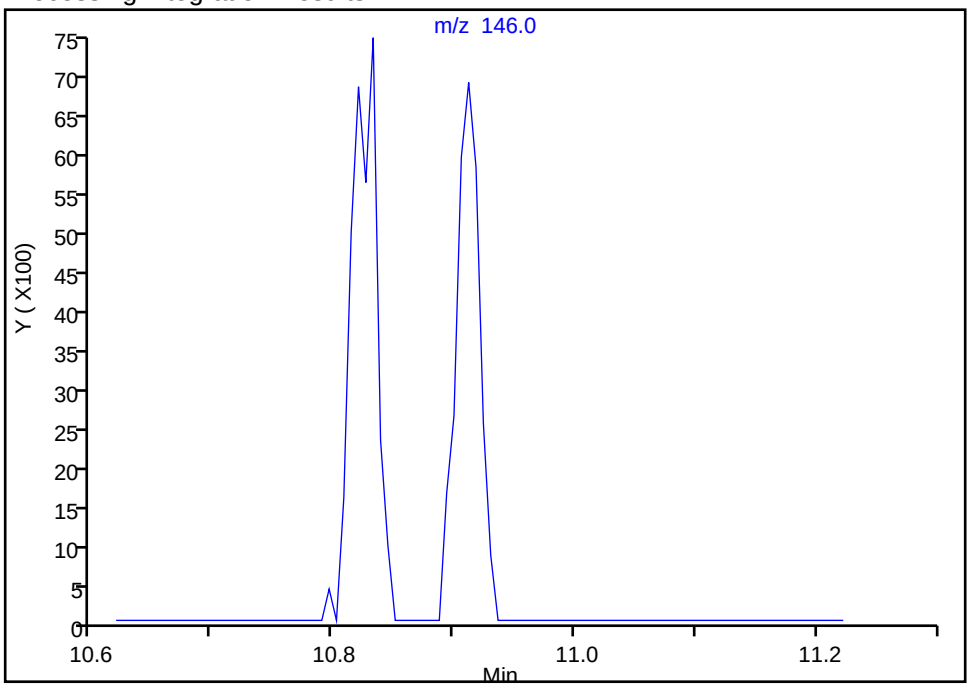
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

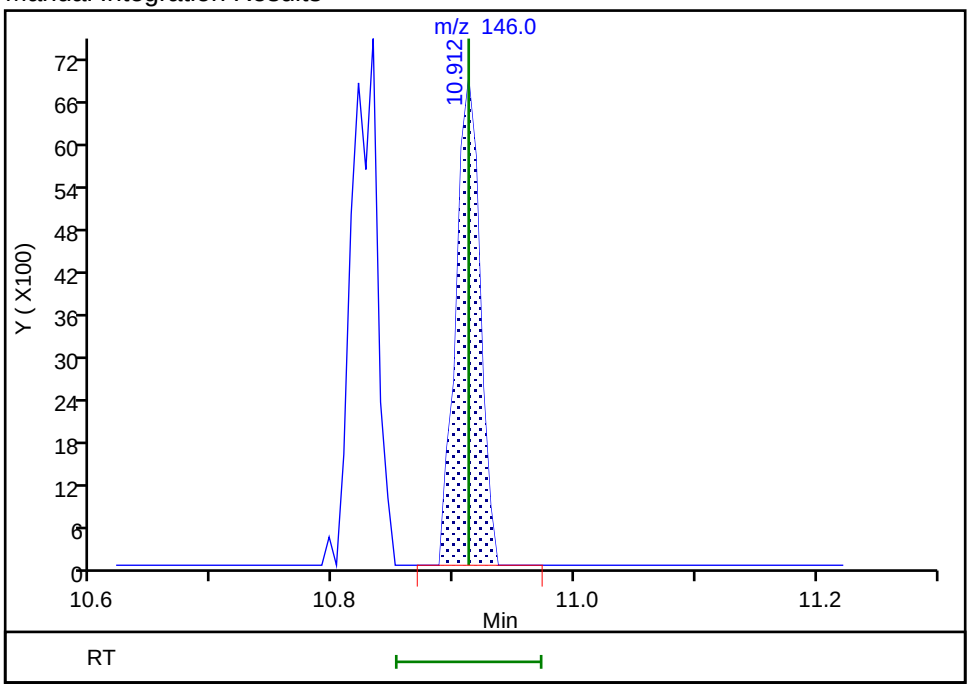
Not Detected
Expected RT: 10.91

Processing Integration Results



Manual Integration Results

RT: 10.91
Area: 9616
Amount: 0.415448
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:45:54
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

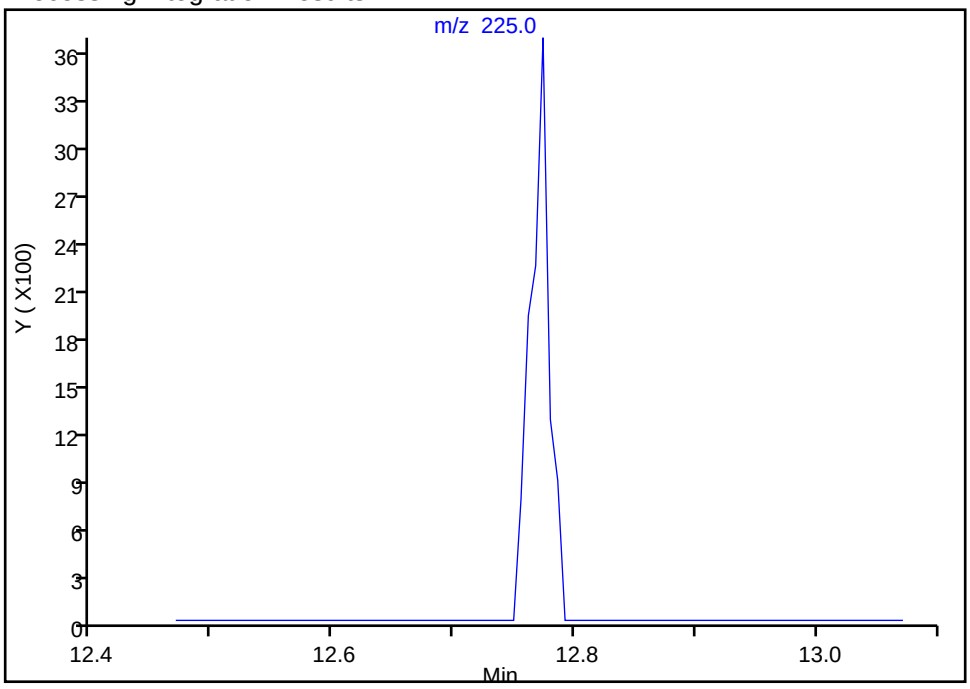
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

120 Hexachlorobutadiene, CAS: 87-68-3

Signal: 1

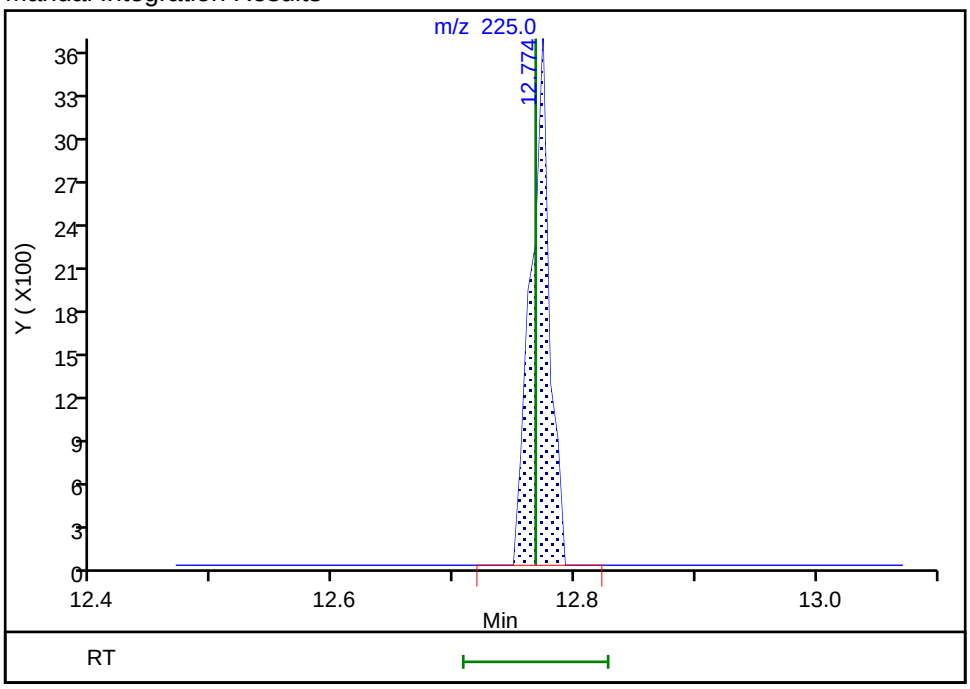
Not Detected
Expected RT: 12.77

Processing Integration Results



Manual Integration Results

RT: 12.77
Area: 3906
Amount: 0.514056
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:46:00
Audit Action: Manually Integrated Audit Reason: Assign Peak

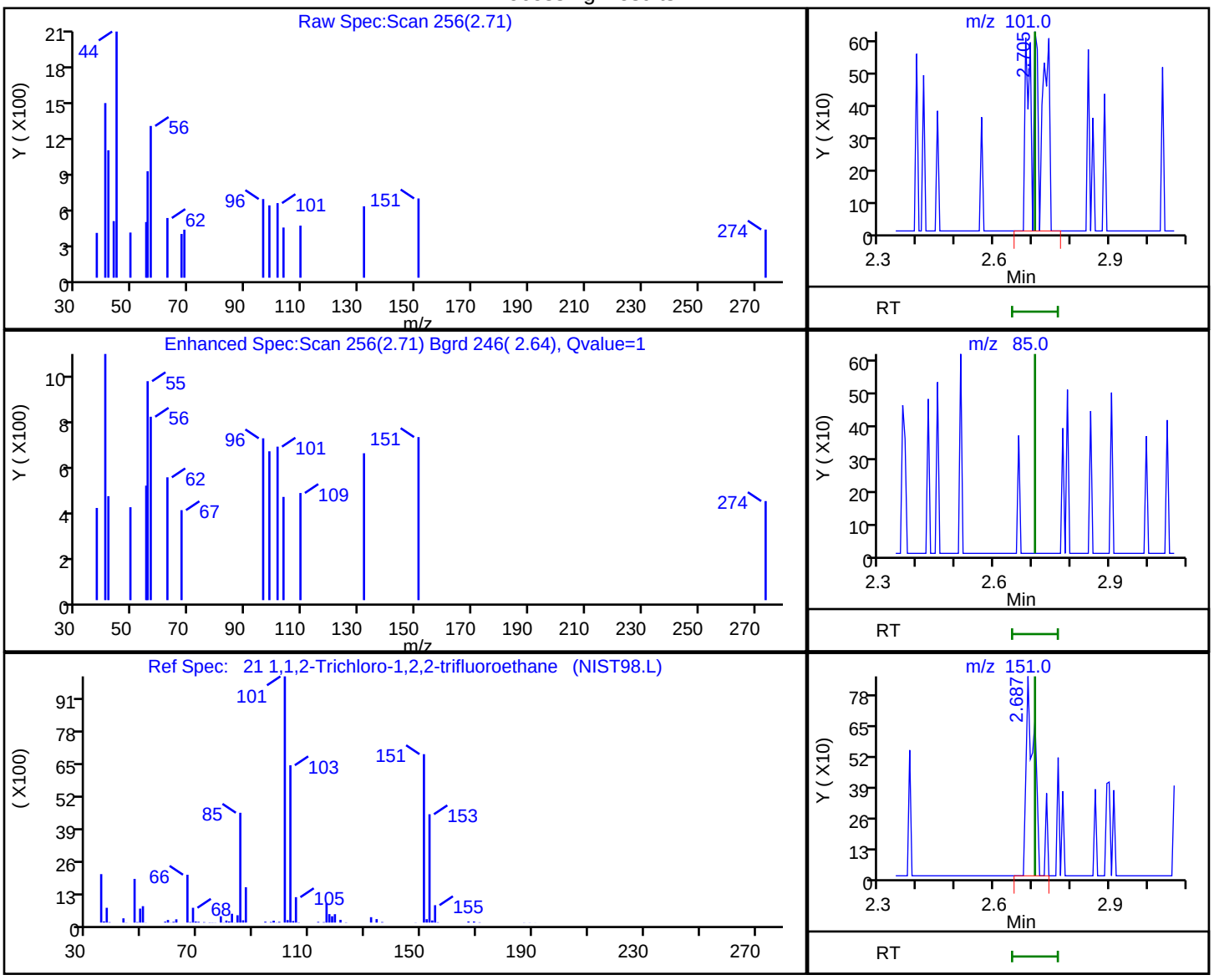
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.71	101.00	1737	0.614237
2.71	85.00	0	
2.69	151.00	1339	

Reviewer: moffata, 21-Jun-2018 11:57:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

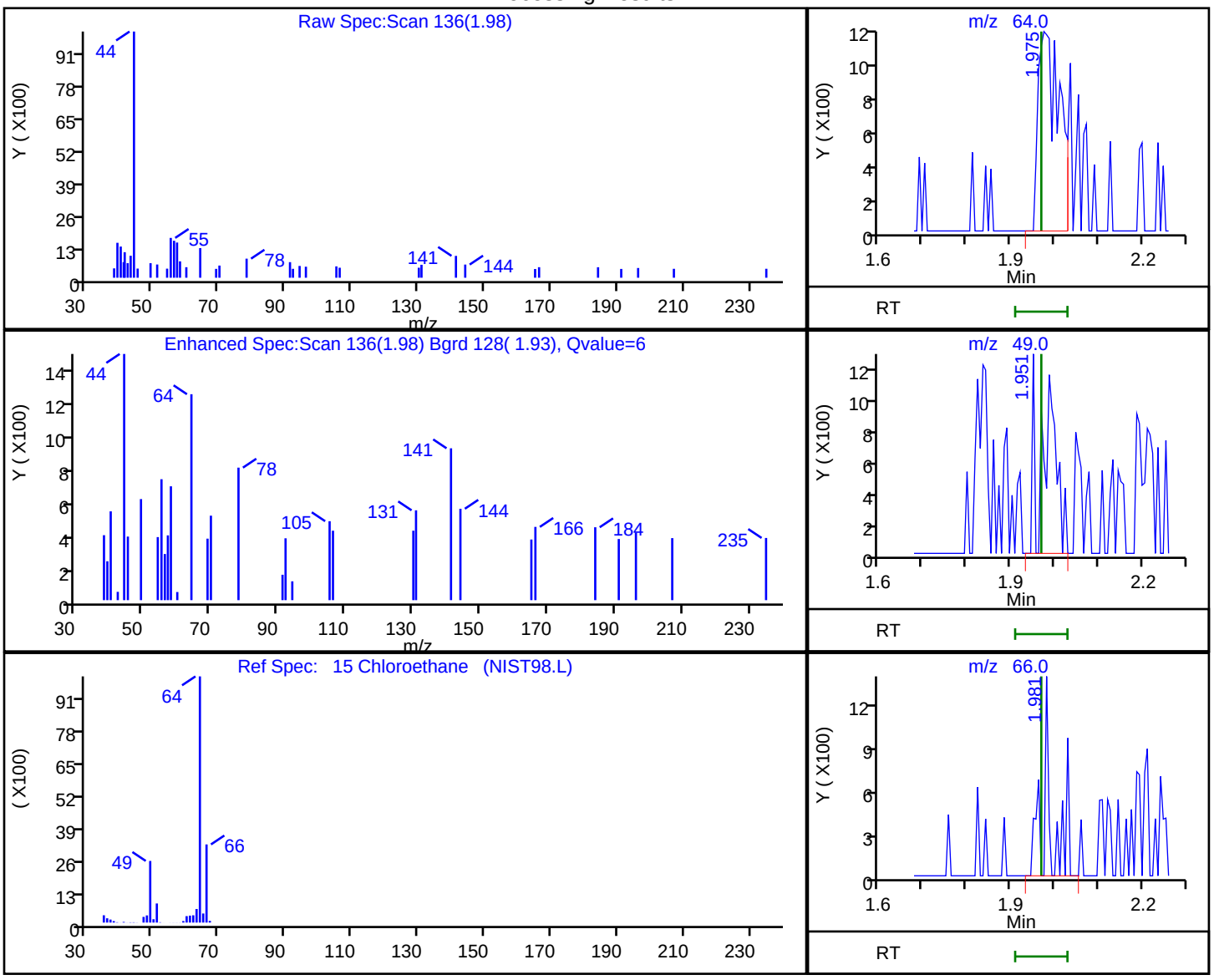
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2506.D
Injection Date: 20-Jun-2018 13:51:30 Instrument ID: HP5973S
Lims ID: IC 0.5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.98	64.00	4050	0.494855
1.95	49.00	2720	
1.98	66.00	1758	

Reviewer: moffata, 21-Jun-2018 11:56:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jun-2018 14:14:30 ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0072482-006
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:25:40 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 20:27:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	196233	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	387033	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	96	370596	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	58	231529	25.0	24.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	156518	25.0	25.5	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	92	938964	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	87	293518	25.0	25.4	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	36	7348	1.00	0.7775	M
12 Chloromethane	50	1.476	1.464	0.012	78	15313	1.00	1.02	M
13 Vinyl chloride	62	1.555	1.549	0.006	27	12290	1.00	0.9206	
151 Butadiene	54	1.574	1.574	0.000	65	14101	1.00	1.01	M
14 Bromomethane	94	1.896	1.872	0.024	21	7740	1.00	1.08	
15 Chloroethane	64	1.987	1.969	0.018	44	7969	1.00	0.9863	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	35	18841	1.00	1.06	M
17 Trichlorofluoromethane	101	2.194	2.194	0.000	23	9809	1.00	0.7755	M
18 Ethyl ether	59	2.498	2.492	0.006	68	10116	1.00	0.8990	M
20 Acrolein	56	2.687	2.687	0.000	62	10896	5.00	5.06	
21 1,1,2-Trichloro-1,2,2-trif	101	2.717	2.705	0.012	1	4012	1.00	0.8855	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	48	5891	1.00	0.6796	M
23 Acetone	43	2.857	2.851	0.006	94	21919	5.00	5.81	M
25 Iodomethane	142	2.894	2.894	0.000	76	9518	1.00	0.7508	
26 Carbon disulfide	76	2.918	2.918	0.000	61	21977	1.00	0.7953	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	78	13283	1.00	0.7904	M
27 Methyl acetate	43	3.155	3.143	0.012	96	18391	2.00	1.86	
30 Methylene Chloride	84	3.277	3.253	0.024	73	27400	1.00	0.7662	M
31 2-Methyl-2-propanol	59	3.435	3.423	0.012	67	10697	10.0	8.36	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	87	29403	1.00	0.9052	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	71	8953	1.00	0.9025	
33 Acrylonitrile	53	3.539	3.539	0.000	98	54039	10.0	10.3	M
35 Hexane	57	3.660	3.660	0.000	77	16451	1.00	0.8994	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	59	18747	1.00	0.8971	
37 Vinyl acetate	43	3.952	3.952	0.000	95	48840	2.00	2.03	
44 2,2-Dichloropropane	77	4.421	4.415	0.006	58	10146	1.00	0.8761	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	38	9571	1.00	0.8396	M
43 2-Butanone (MEK)	43	4.506	4.494	0.012	90	28054	5.00	4.84	M
48 Chlorobromomethane	128	4.701	4.695	0.006	61	4881	1.00	0.8962	
49 Tetrahydrofuran	42	4.713	4.713	0.000	83	9288	2.00	2.33	
50 Chloroform	83	4.774	4.774	0.000	55	18254	1.00	1.00	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	59	11720	1.00	0.8626	
52 Cyclohexane	56	4.889	4.883	0.006	66	14257	1.00	0.7800	
55 Carbon tetrachloride	117	5.011	5.011	0.000	69	9145	1.00	0.8032	M
54 1,1-Dichloropropene	75	5.035	5.029	0.006	71	11150	1.00	0.8051	
57 Benzene	78	5.236	5.236	0.000	41	36984	1.00	0.8884	
53 Isobutyl alcohol	43	5.266	5.266	0.000	49	12199	25.0	22.7	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	71	16247	1.00	0.9660	M
59 n-Heptane	43	5.406	5.412	-0.006	79	15455	1.00	0.9085	
62 Trichloroethene	95	5.850	5.850	0.000	66	9061	1.00	0.8437	
64 Methylcyclohexane	83	5.954	5.960	-0.006	65	12551	1.00	0.7674	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	64	12180	1.00	0.9699	
67 Dibromomethane	93	6.240	6.234	0.006	78	5931	1.00	0.9046	
66 1,4-Dioxane	88	6.258	6.246	0.012	1	597	20.0	20.1	M
68 Dichlorobromomethane	83	6.398	6.386	0.012	28	10219	1.00	0.8092	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	66	8583	1.00	1.02	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	59	13358	1.00	0.8413	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	89	59826	5.00	4.84	
74 Toluene	92	7.091	7.085	0.006	73	24418	1.00	0.9491	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	67	12197	1.00	0.8606	
75 Ethyl methacrylate	69	7.414	7.414	0.000	72	12849	1.00	0.9248	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	54	7331	1.00	0.9458	
81 Tetrachloroethene	166	7.621	7.615	0.006	82	9718	1.00	0.8945	
82 1,3-Dichloropropane	76	7.736	7.730	0.006	59	15786	1.00	0.9657	
80 2-Hexanone	43	7.791	7.791	0.000	92	44500	5.00	4.89	
83 Chlorodibromomethane	129	7.961	7.961	0.000	36	7156	1.00	0.8118	M
84 Ethylene Dibromide	107	8.071	8.071	0.000	53	10524	1.00	1.08	
87 Chlorobenzene	112	8.539	8.539	0.000	83	24166	1.00	0.8571	
88 Ethylbenzene	91	8.631	8.631	0.000	93	41123	1.00	0.8869	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	37	8227	1.00	0.9023	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	17890	1.00	0.9484	
91 o-Xylene	106	9.178	9.178	0.000	80	15140	1.00	0.8457	
92 Styrene	104	9.209	9.209	0.000	51	25278	1.00	0.8227	
95 Bromoform	173	9.470	9.464	0.006	55	4863	1.00	0.8636	
94 Isopropylbenzene	105	9.561	9.561	0.000	77	39437	1.00	0.8441	
101 Bromobenzene	156	9.908	9.908	0.000	70	10335	1.00	0.8743	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	62	11498	1.00	0.9057	
99 N-Propylbenzene	91	9.981	9.987	-0.006	91	45097	1.00	0.8326	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	25	3120	1.00	0.7465	M
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	1	2682	1.00	1.16	M
103 2-Chlorotoluene	126	10.091	10.091	0.000	89	9082	1.00	0.7790	M
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	71	35625	1.00	0.8789	
105 4-Chlorotoluene	126	10.200	10.200	0.000	48	9952	1.00	0.8330	
106 tert-Butylbenzene	134	10.474	10.474	0.000	74	7151	1.00	0.8276	
107 1,2,4-Trimethylbenzene	105	10.535	10.529	0.006	9	33566	1.00	0.8108	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	76	40072	1.00	0.8245	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	82	31836	1.00	0.7610	
111 1,3-Dichlorobenzene	146	10.821	10.827	-0.006	64	20317	1.00	0.8846	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	58	23153	1.00	0.9886	
115 n-Butylbenzene	91	11.210	11.210	0.000	87	30240	1.00	0.8017	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	85	20878	1.00	0.9234	
117 1,2-Dibromo-3-Chloropropan	75	11.989	11.995	-0.006	1	1954	1.00	0.7932	M
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	64	13505	1.00	0.8399	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	45	5693	1.00	0.7405	
121 Naphthalene	128	12.883	12.877	0.006	79	38651	1.00	0.8794	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	62	12729	1.00	0.8584	
S 124 Xylenes, Total	1				0			1.79	
S 126 1,3-Dichloropropene, Total	1				0			1.70	
S 123 Total BTEX	1				0			4.52	
S 125 1,2-Dichloroethene, Total	1				0			1.74	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added:	1.00	Units: uL	
GAS CORP mix_00287	Amount Added:	1.00	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Jun-2018 14:25:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D

Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S Operator ID: LH/ZV

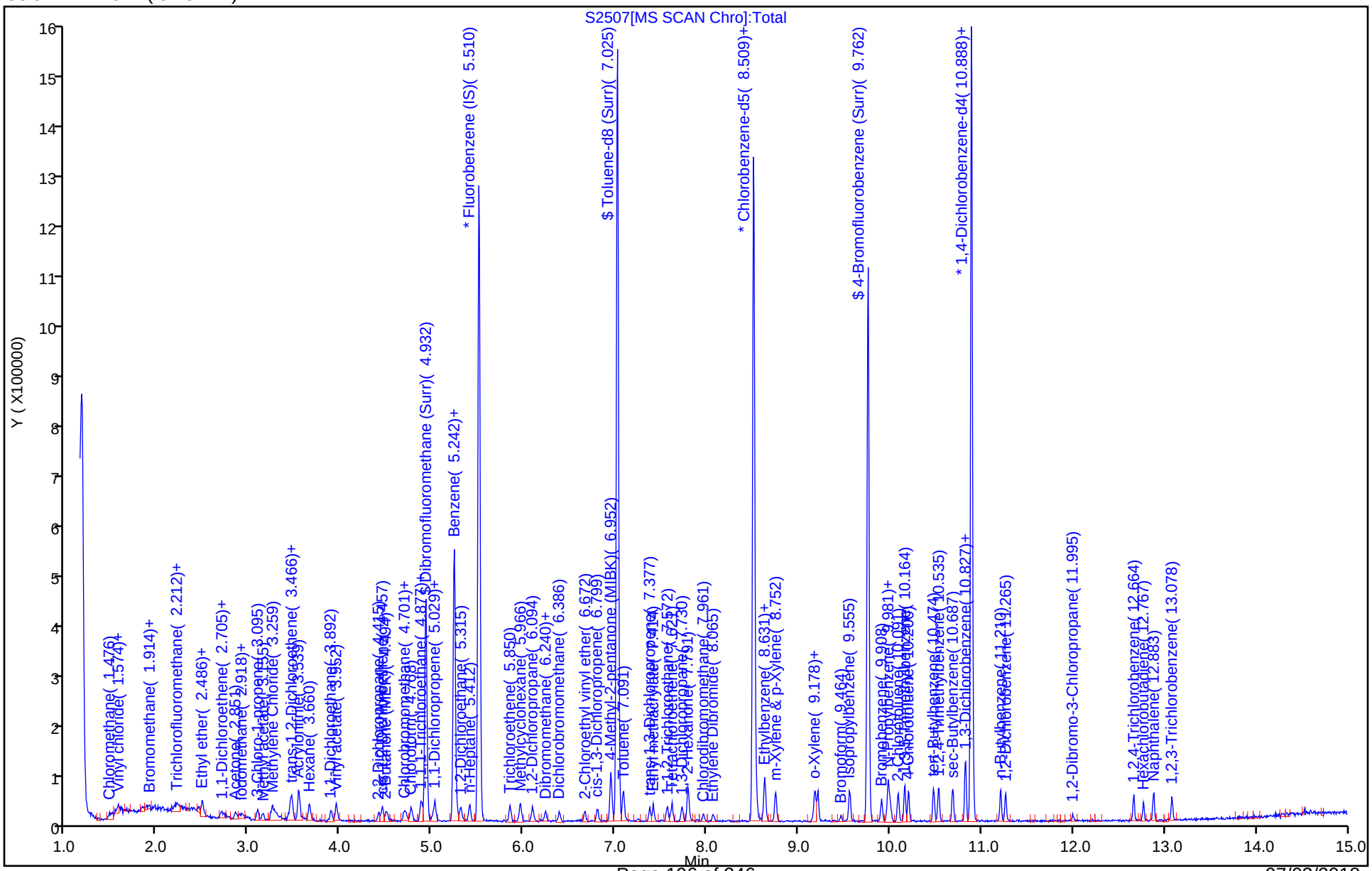
Lims ID: IC Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: S-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo

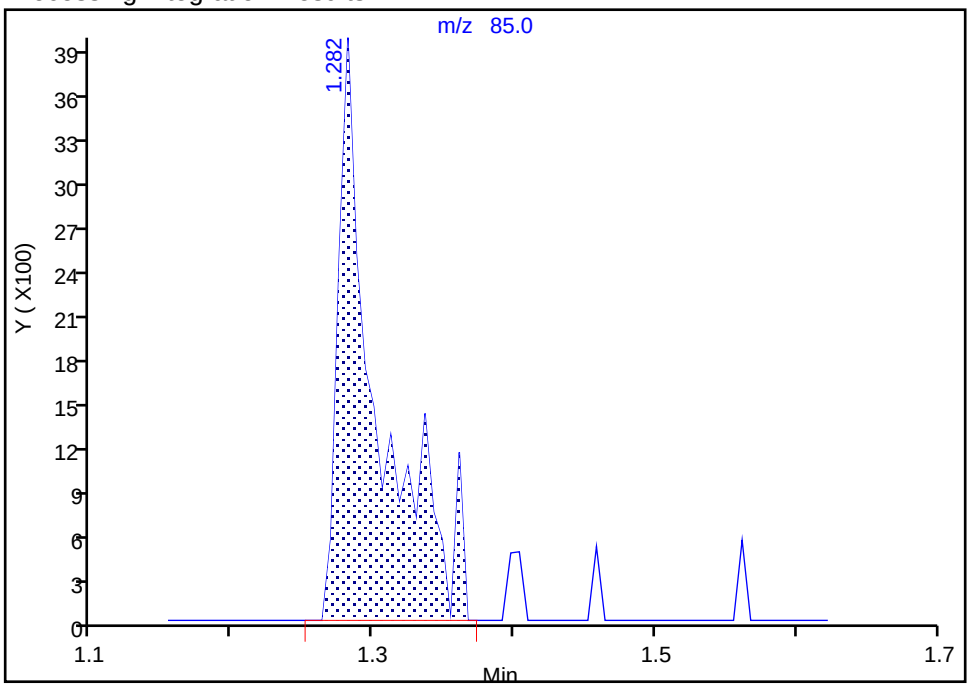
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

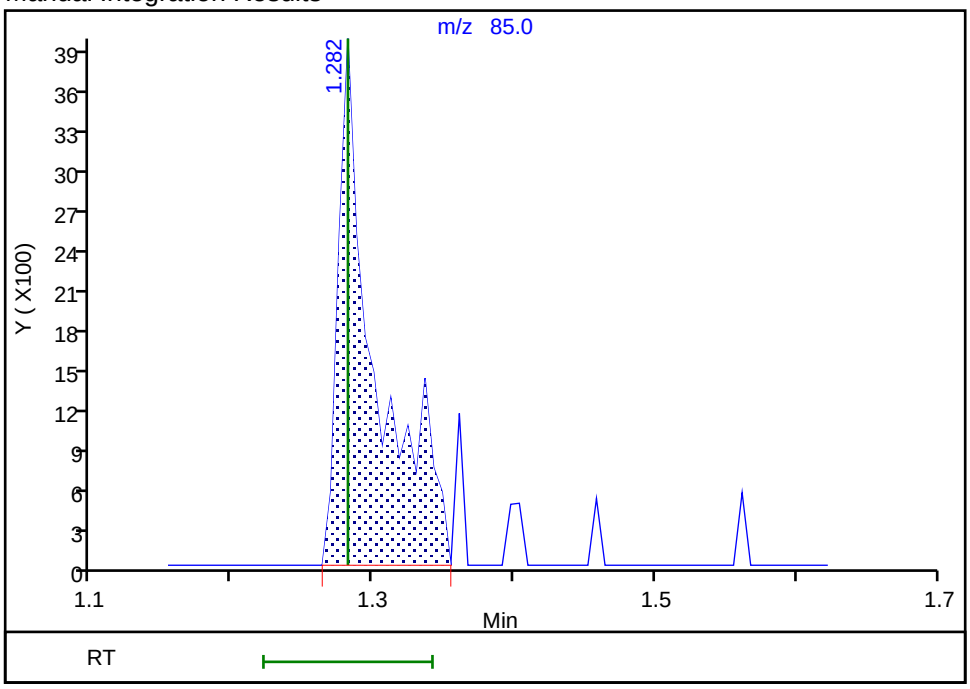
Processing Integration Results

RT: 1.28
Area: 7767
Amount: 0.815608
Amount Units: ug/L



Manual Integration Results

RT: 1.28
Area: 7348
Amount: 0.777451
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:05:16
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

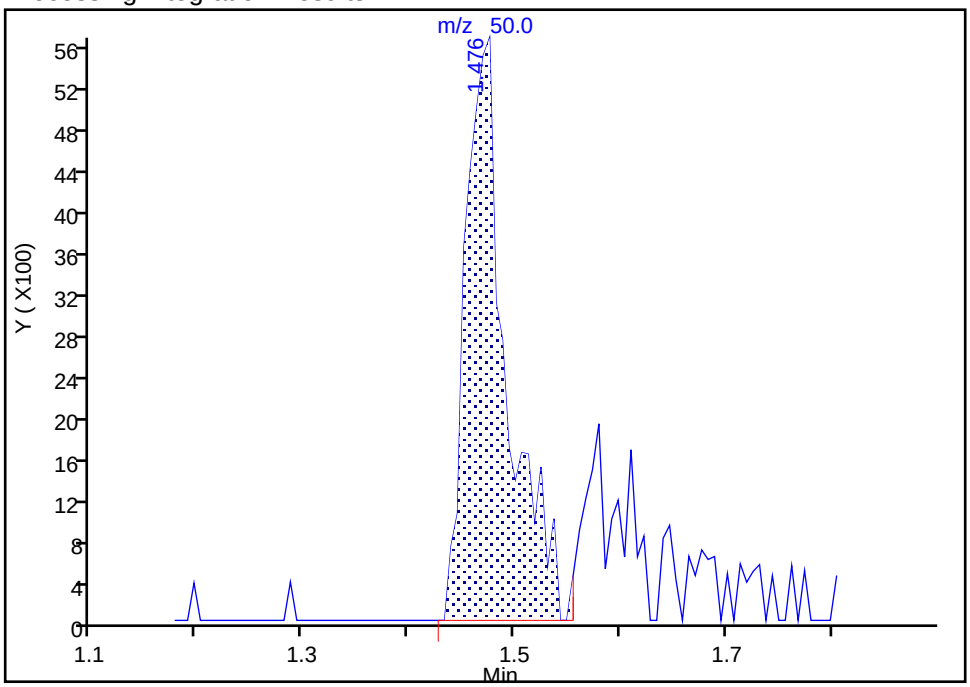
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

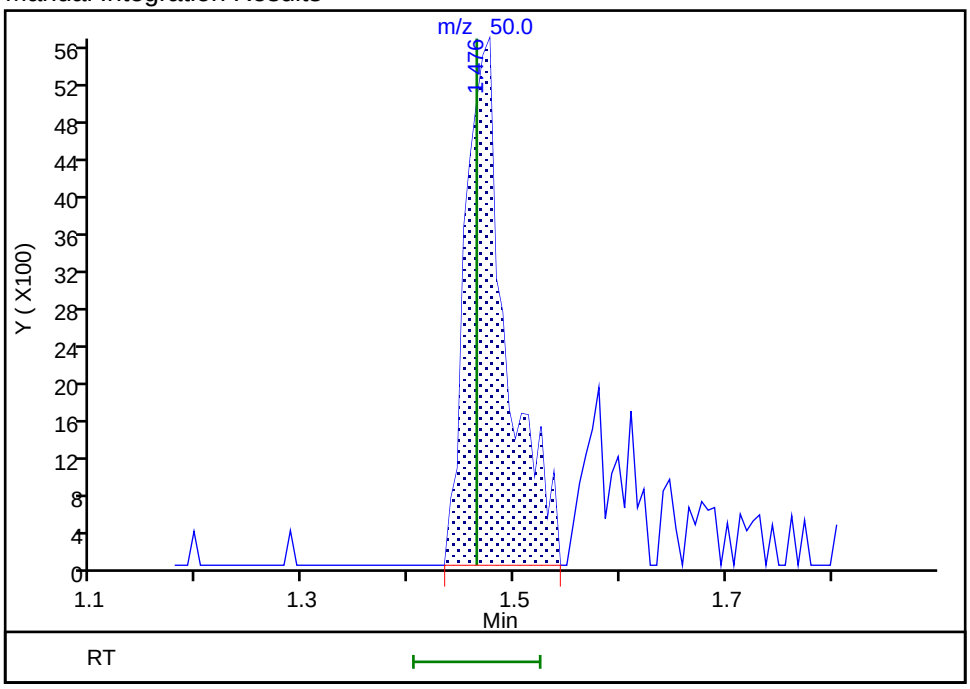
Processing Integration Results

RT: 1.48
Area: 15473
Amount: 1.029331
Amount Units: ug/L



Manual Integration Results

RT: 1.48
Area: 15313
Amount: 1.020044
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:05:22
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

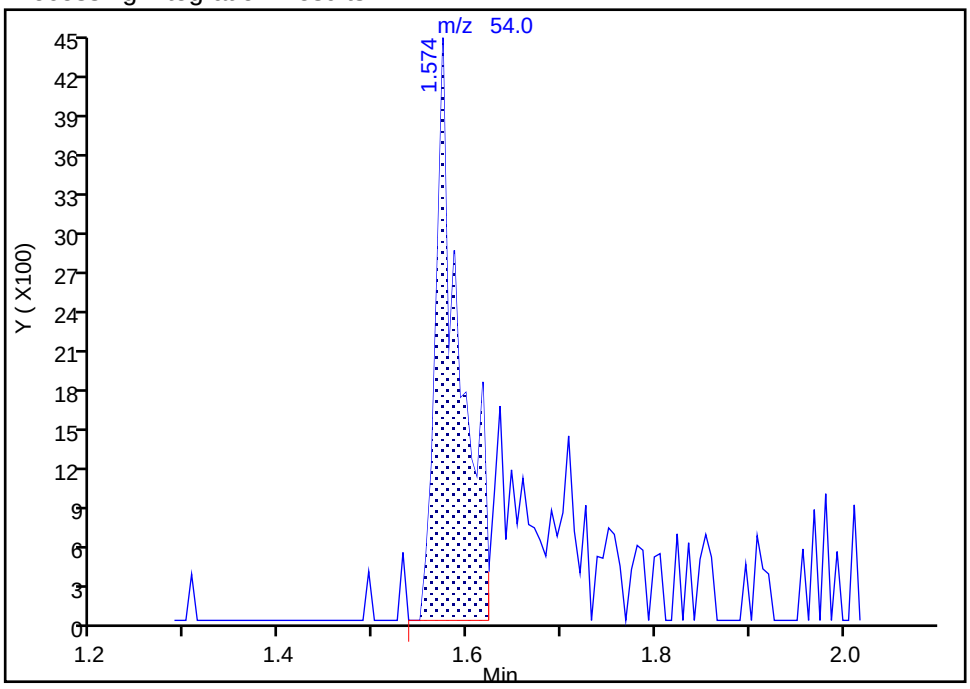
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

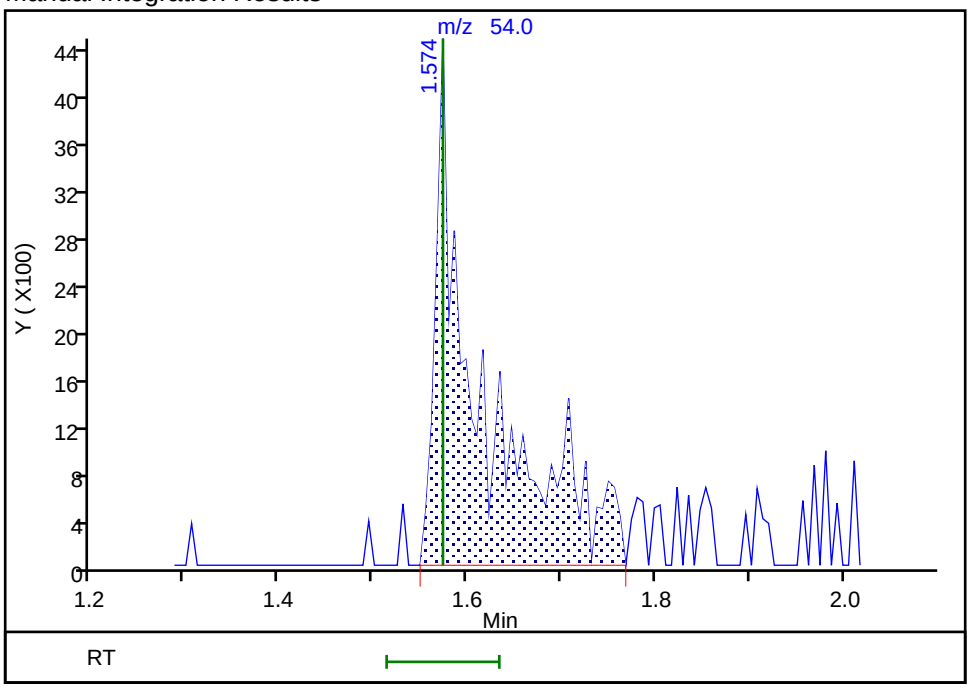
Processing Integration Results

RT: 1.57
Area: 7860
Amount: 0.579263
Amount Units: ug/L



Manual Integration Results

RT: 1.57
Area: 14101
Amount: 1.012805
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:55:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

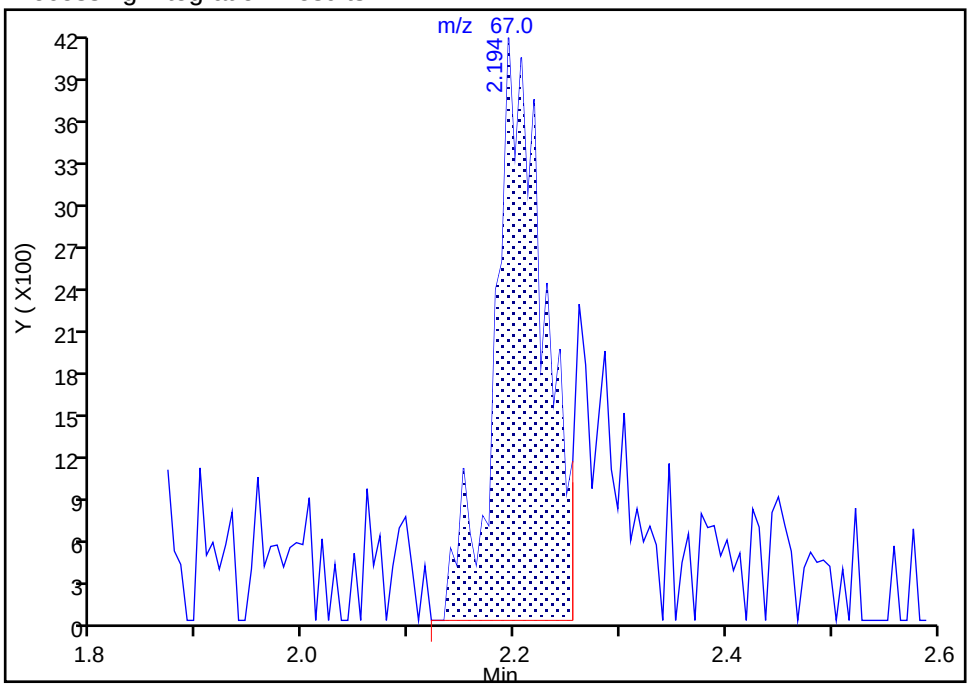
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

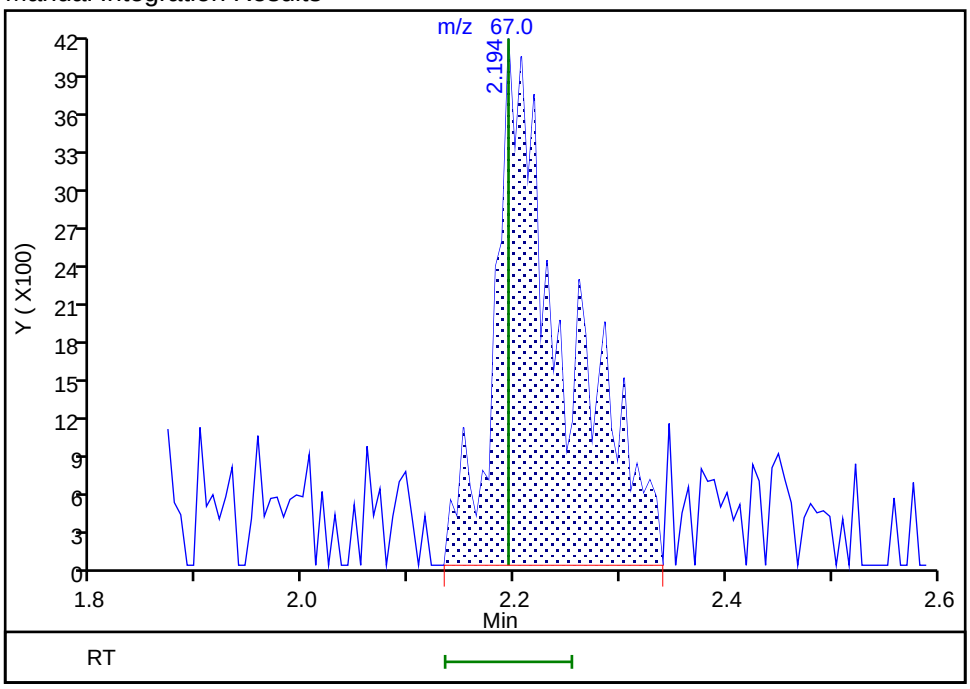
Processing Integration Results

RT: 2.19
Area: 13440
Amount: 0.850503
Amount Units: ug/L



Manual Integration Results

RT: 2.19
Area: 18841
Amount: 1.064342
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:49:44
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo

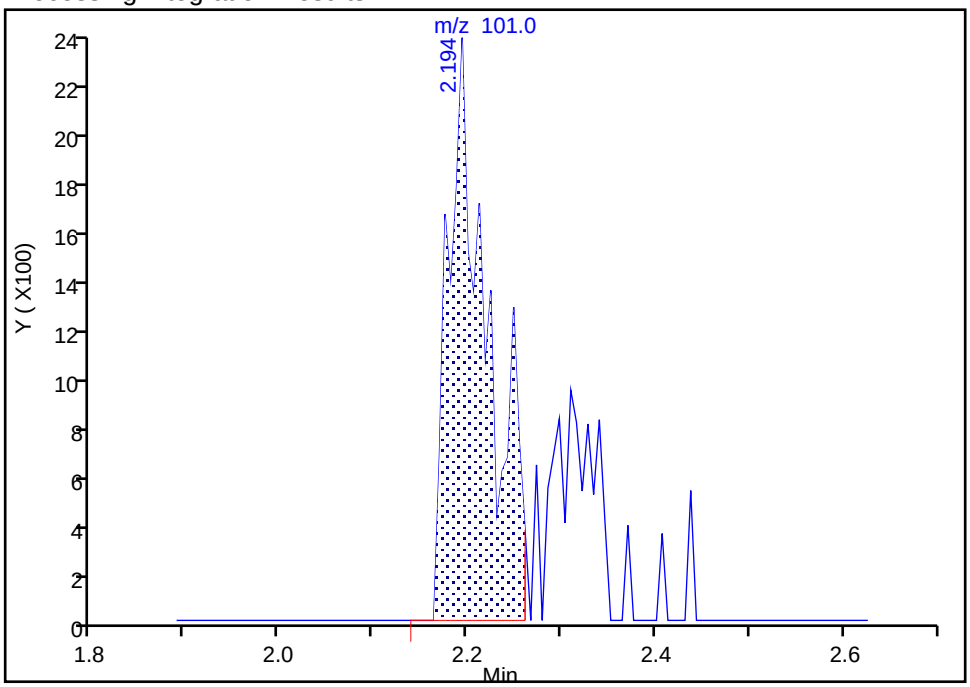
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

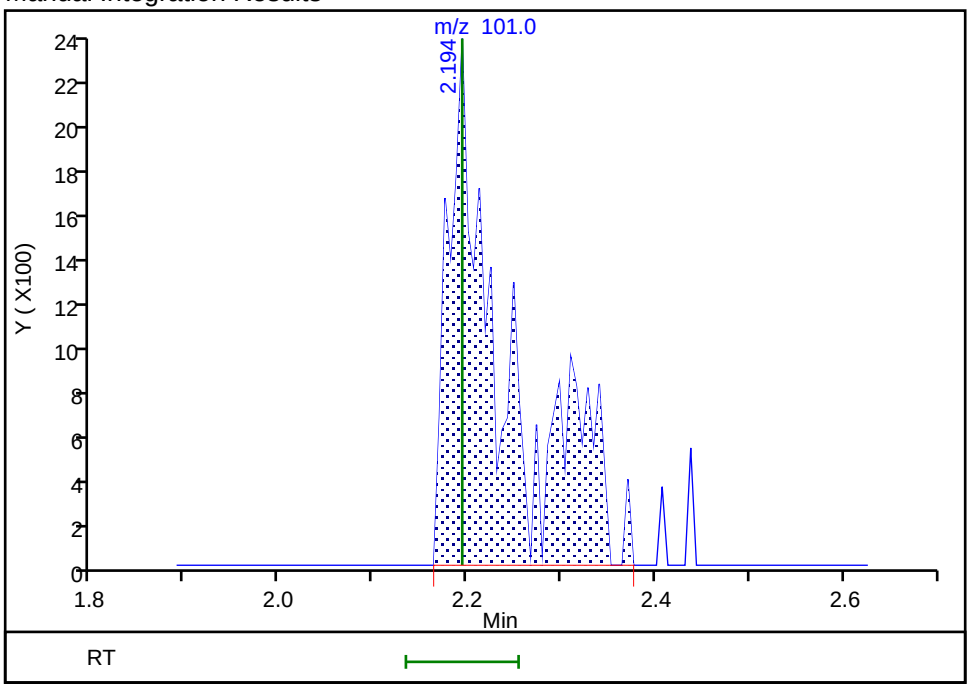
Processing Integration Results

RT: 2.19
Area: 6814
Amount: 0.799434
Amount Units: ug/L



Manual Integration Results

RT: 2.19
Area: 9809
Amount: 0.775455
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:46:33
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

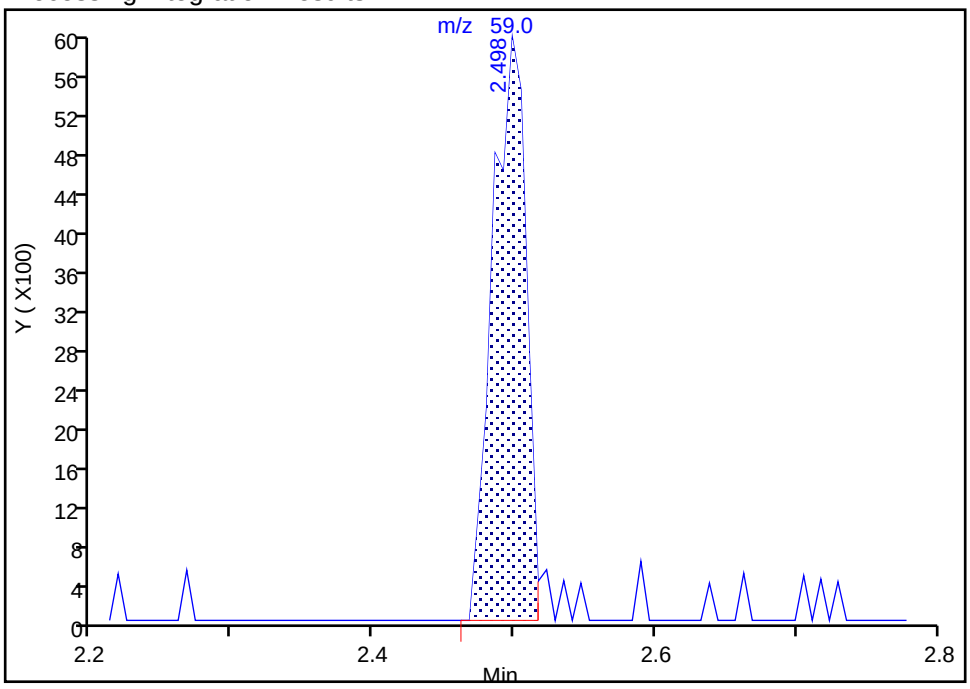
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

18 Ethyl ether, CAS: 60-29-7

Signal: 1

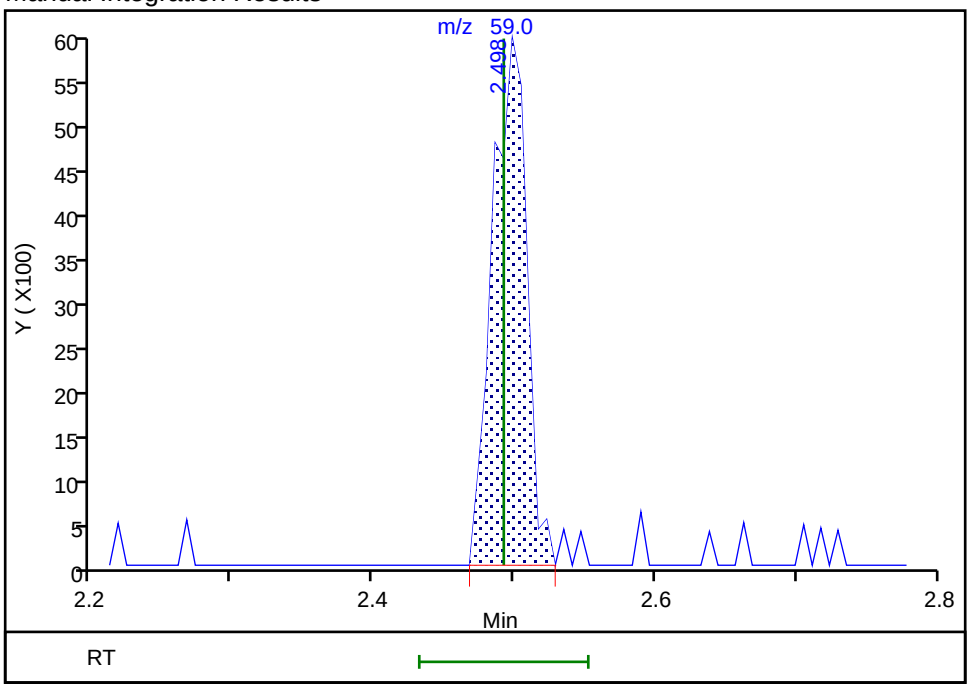
Processing Integration Results

RT: 2.50
Area: 9925
Amount: 0.883933
Amount Units: ug/L



Manual Integration Results

RT: 2.50
Area: 10116
Amount: 0.899032
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:06:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

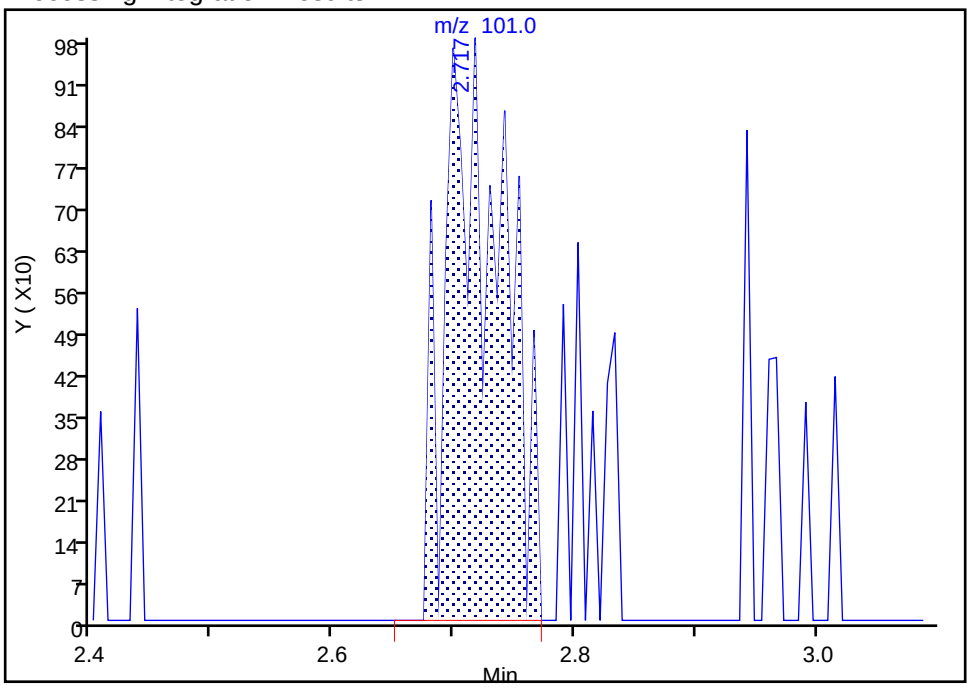
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

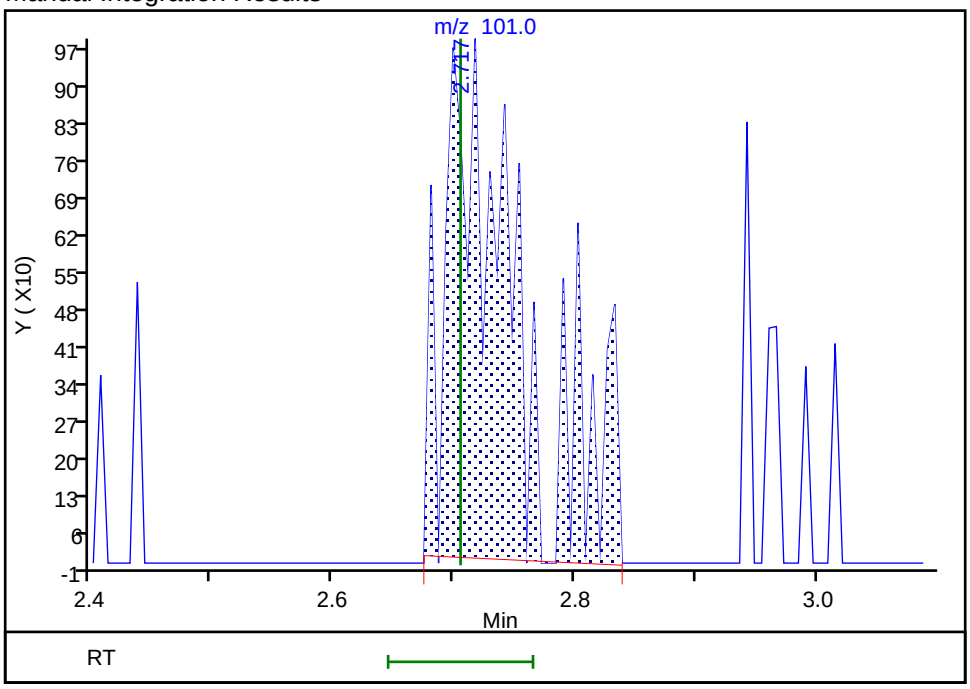
Processing Integration Results

RT: 2.72
Area: 3185
Amount: 0.461181
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 4012
Amount: 0.885545
Amount Units: ug/L



Reviewer: HillL, 21-Jun-2018 14:05:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

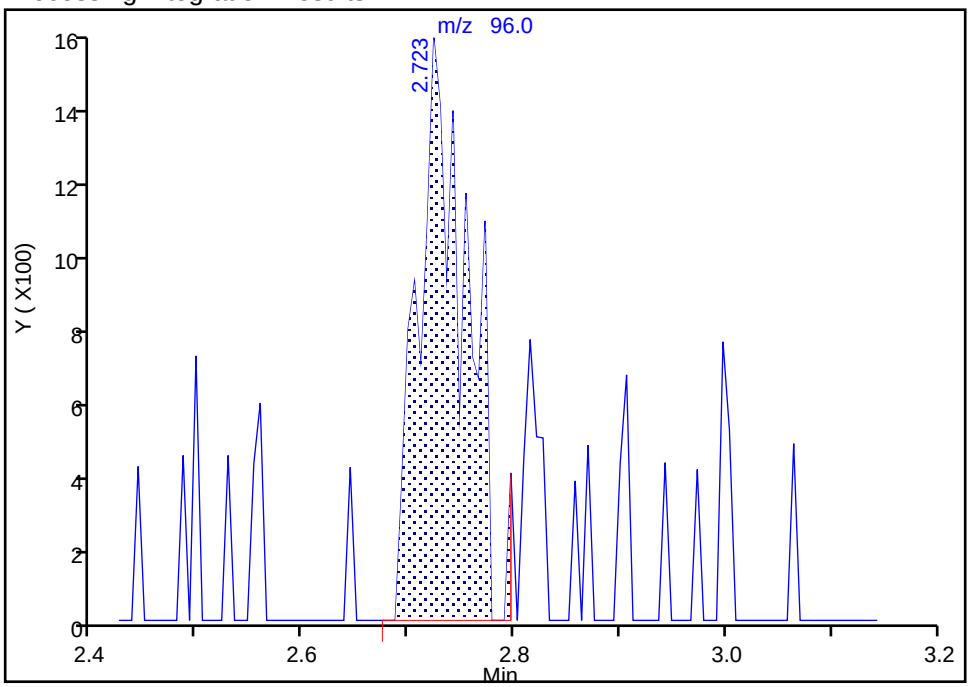
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

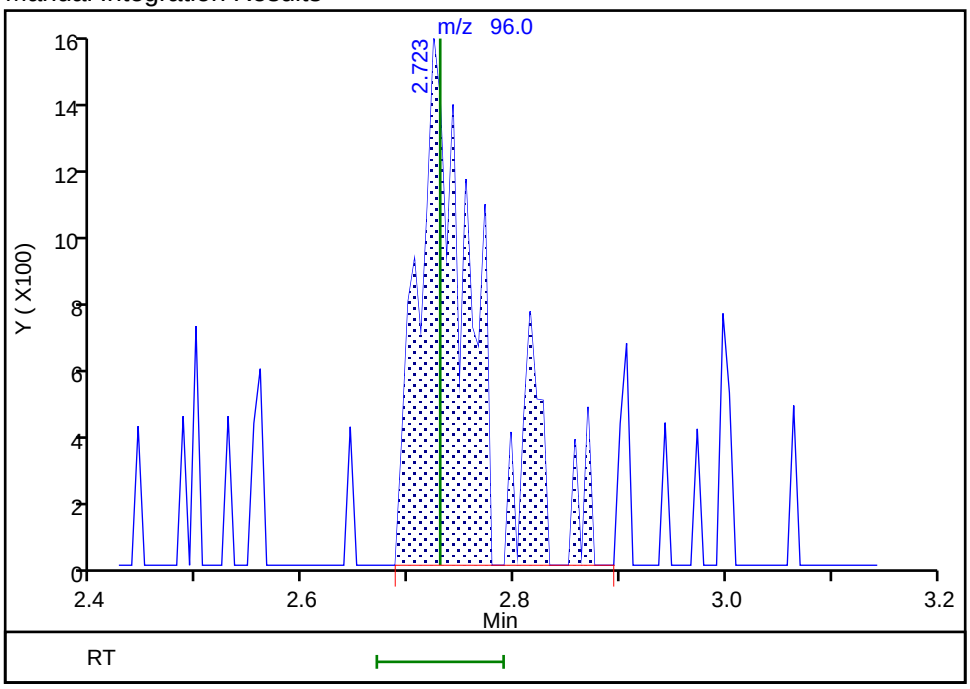
Processing Integration Results

RT: 2.72
Area: 4813
Amount: 0.549905
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 5891
Amount: 0.679625
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:47:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

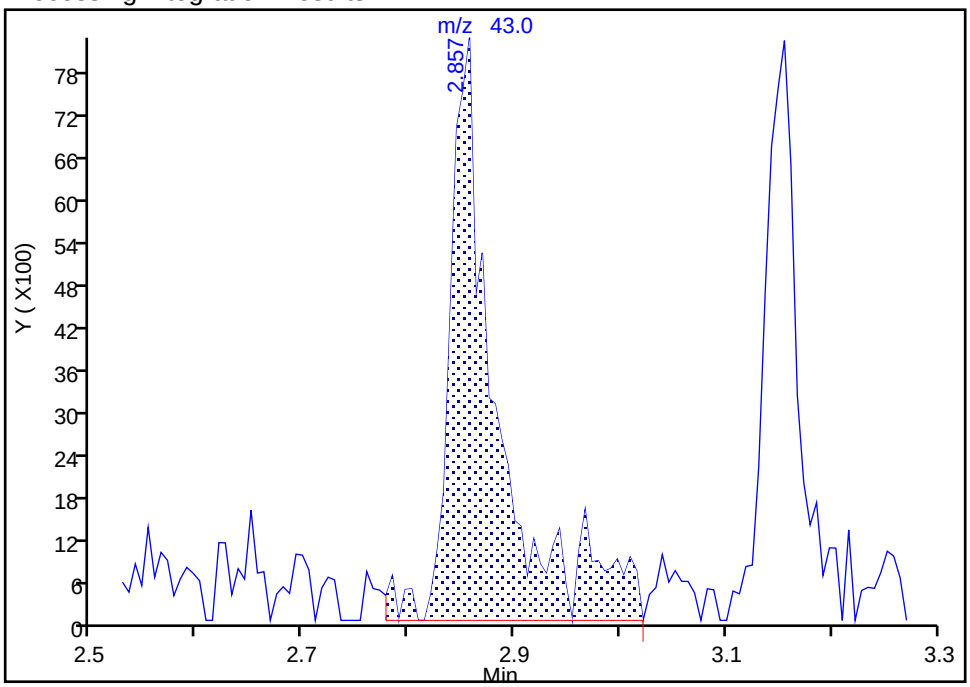
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

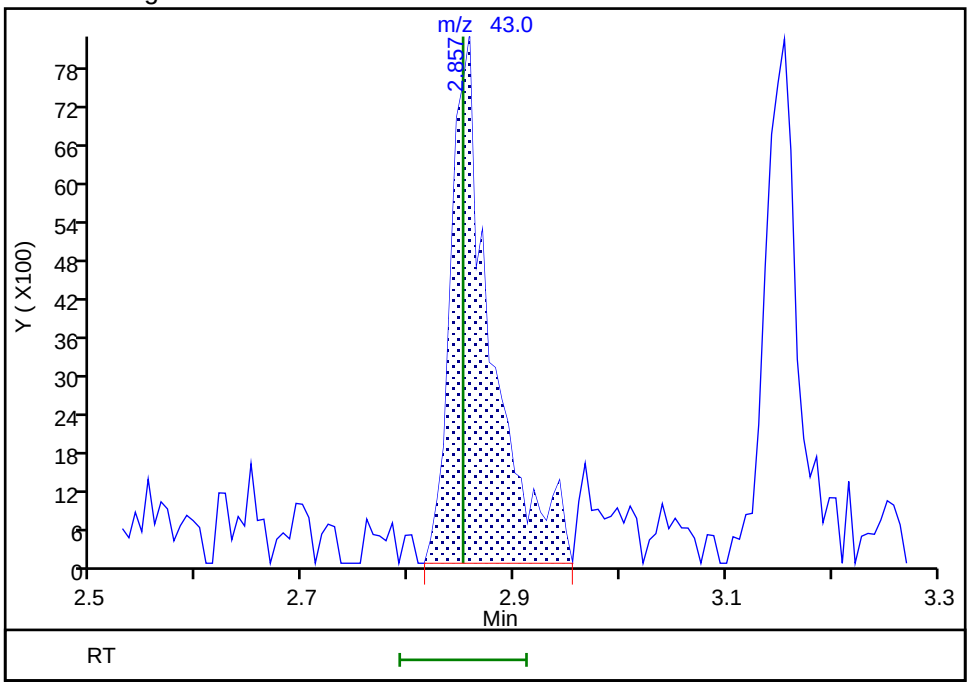
Processing Integration Results

RT: 2.86
Area: 25800
Amount: 5.650467
Amount Units: ug/L



Manual Integration Results

RT: 2.86
Area: 21919
Amount: 5.805718
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:07:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

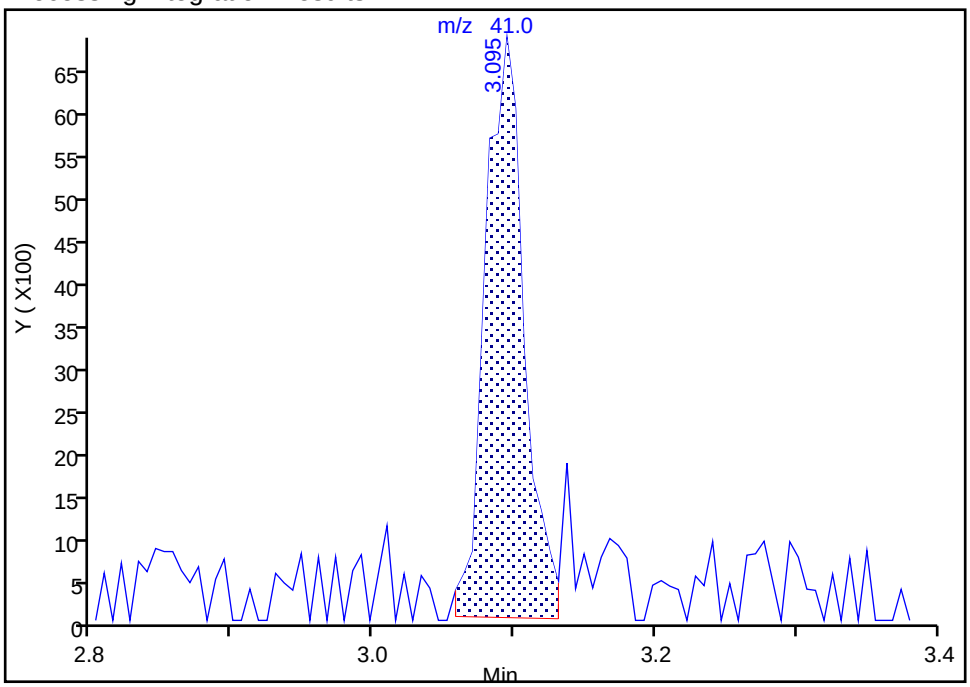
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

28 3-Chloro-1-propene, CAS: 107-05-1

Signal: 1

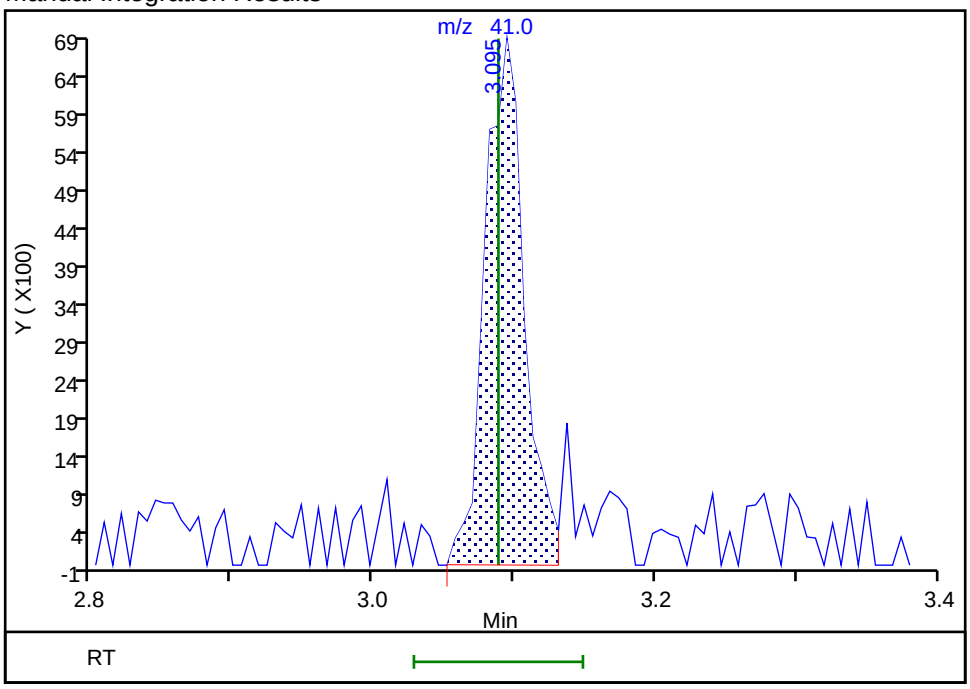
Processing Integration Results

RT: 3.09
Area: 13141
Amount: 0.782798
Amount Units: ug/L



Manual Integration Results

RT: 3.09
Area: 13283
Amount: 0.790421
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:08:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

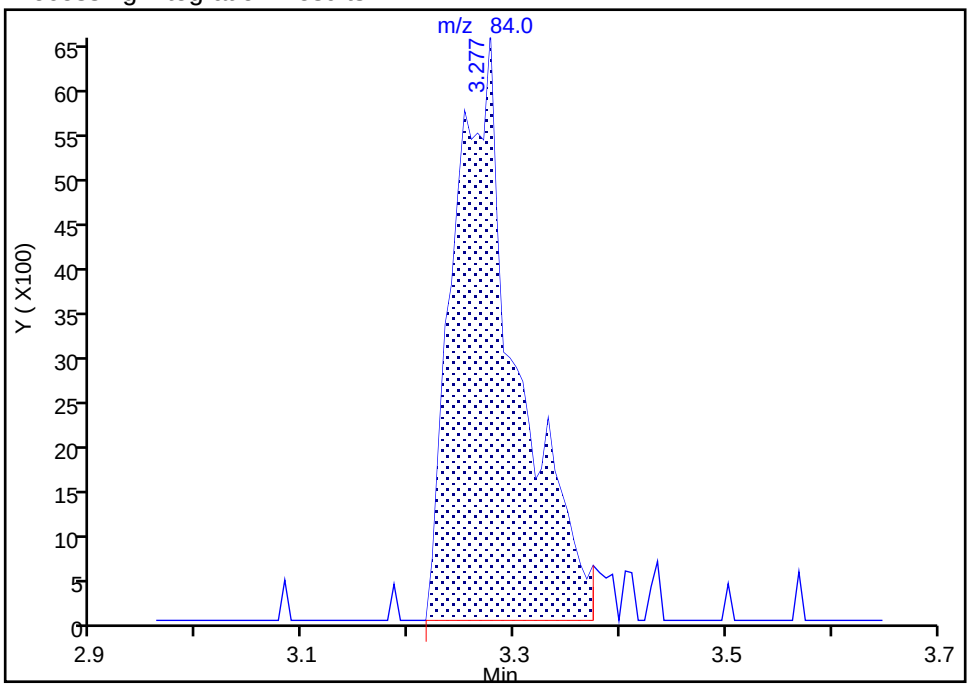
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

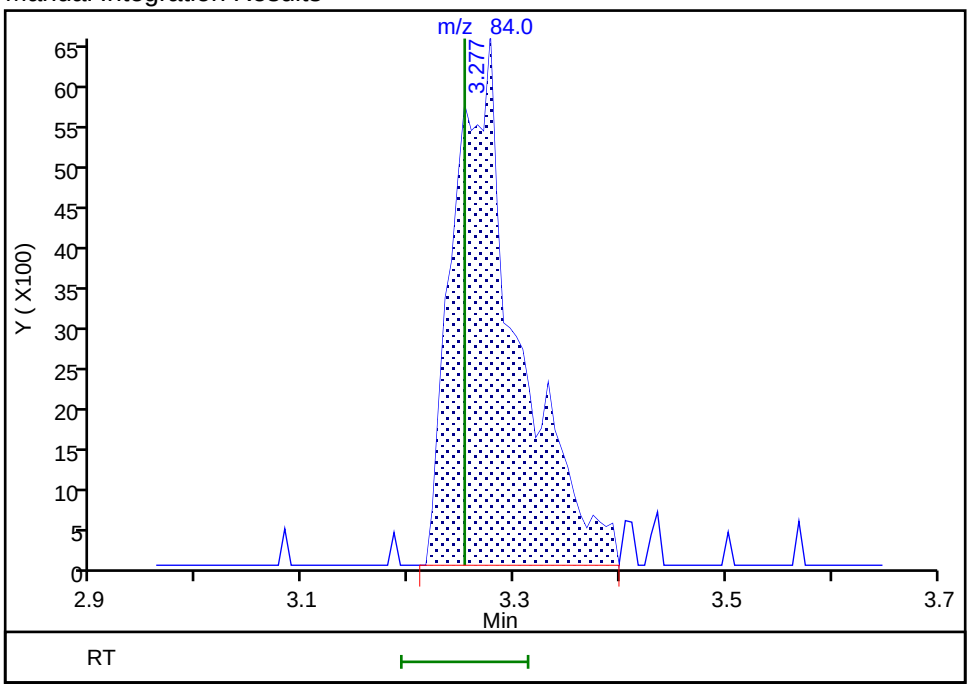
Processing Integration Results

RT: 3.28
Area: 26844
Amount: 0.746640
Amount Units: ug/L



Manual Integration Results

RT: 3.28
Area: 27400
Amount: 0.766220
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:08:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

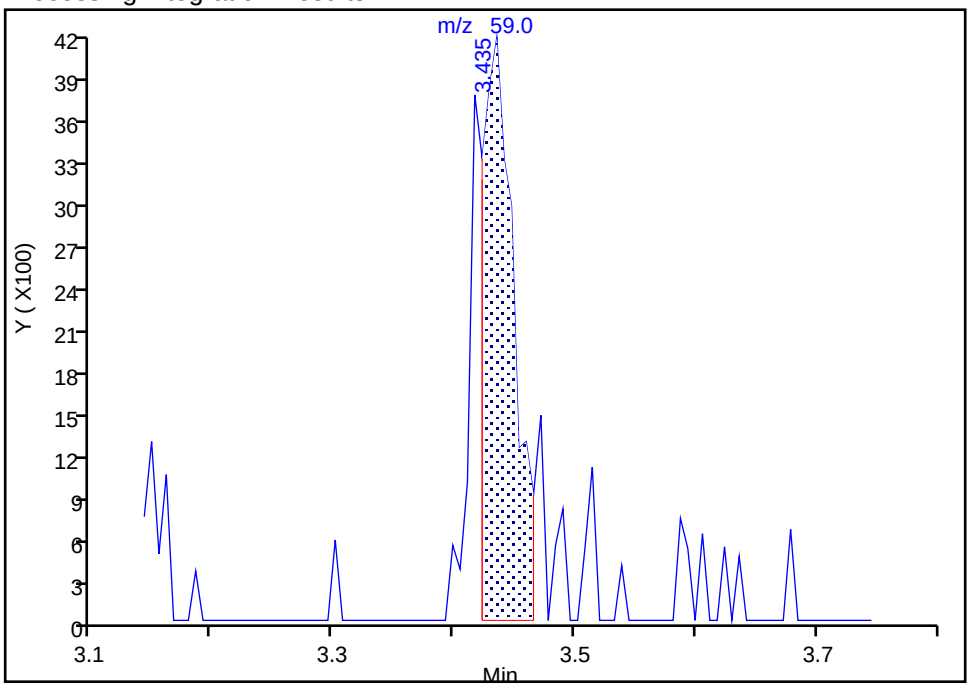
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

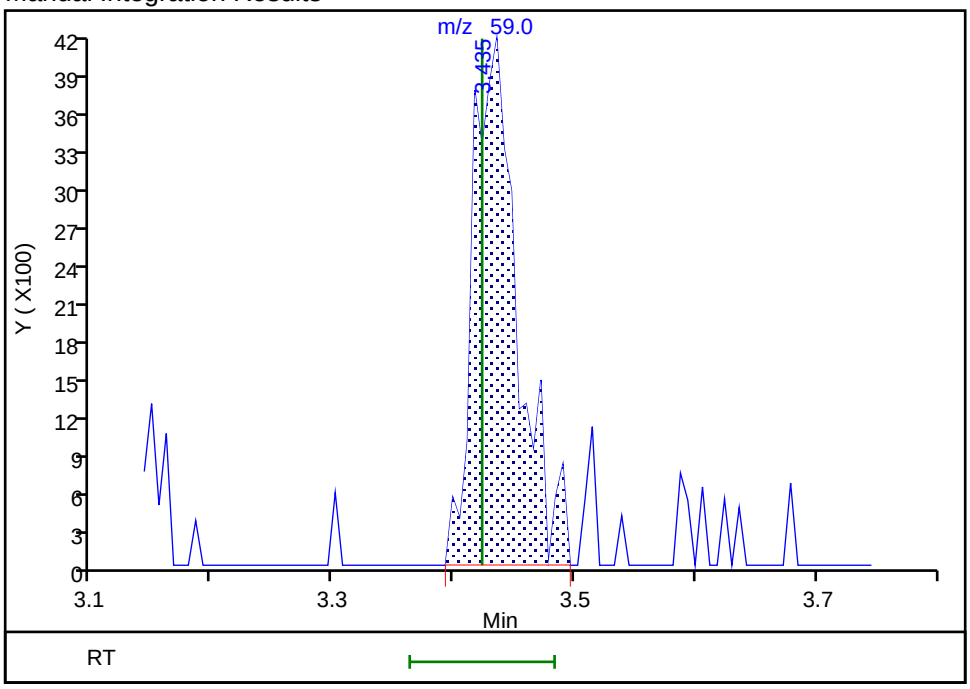
Processing Integration Results

RT: 3.44
Area: 7629
Amount: 7.104469
Amount Units: ug/L



Manual Integration Results

RT: 3.44
Area: 10697
Amount: 8.362223
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:52:14
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

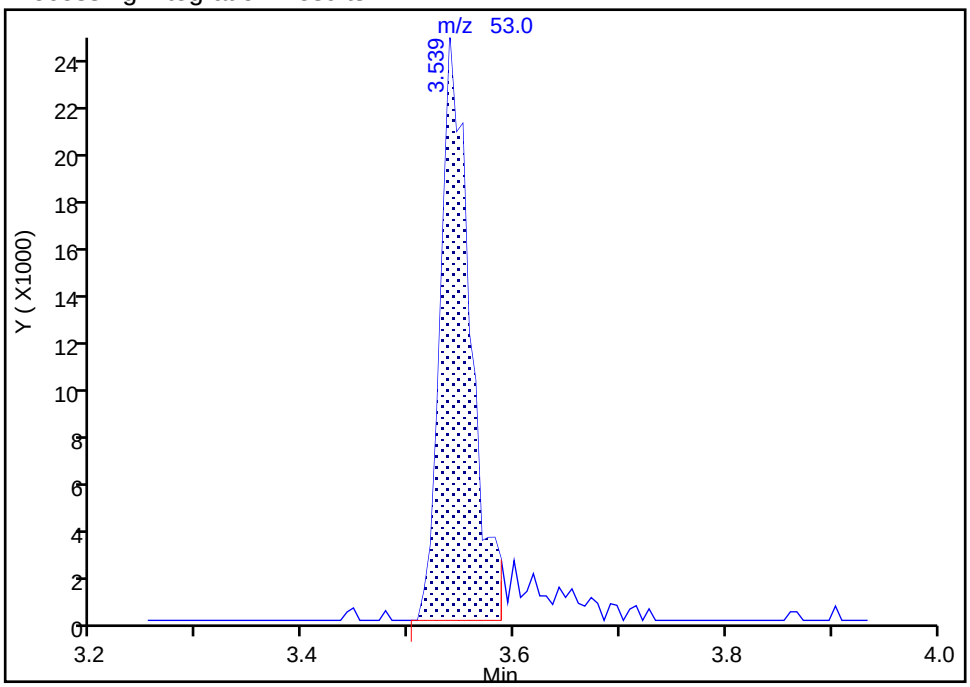
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

33 Acrylonitrile, CAS: 107-13-1

Signal: 1

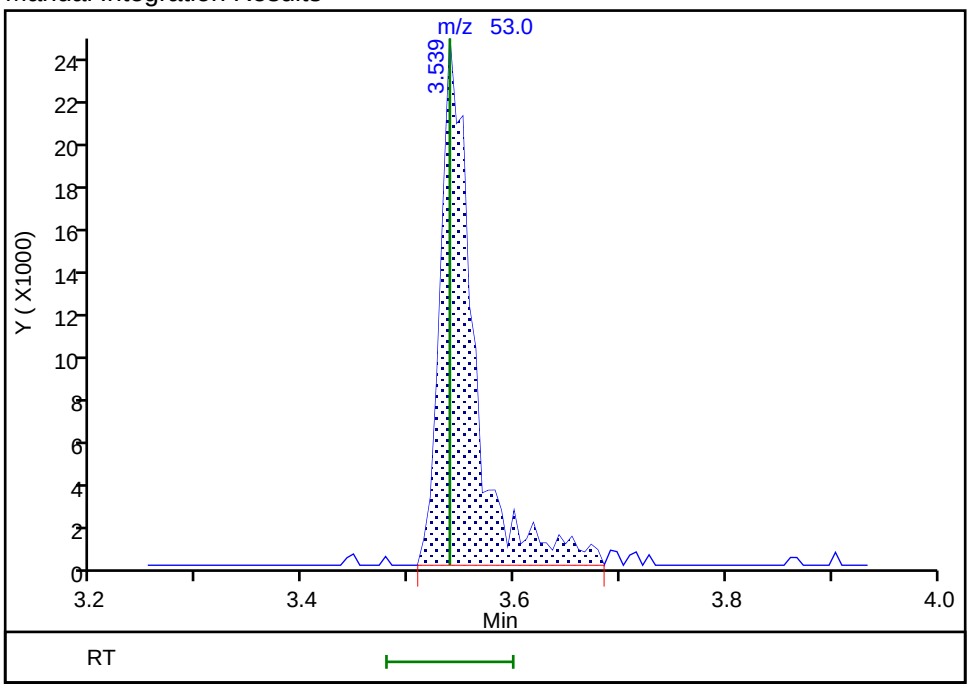
Processing Integration Results

RT: 3.54
Area: 47894
Amount: 9.225375
Amount Units: ug/L



Manual Integration Results

RT: 3.54
Area: 54039
Amount: 10.257266
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:09:17
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

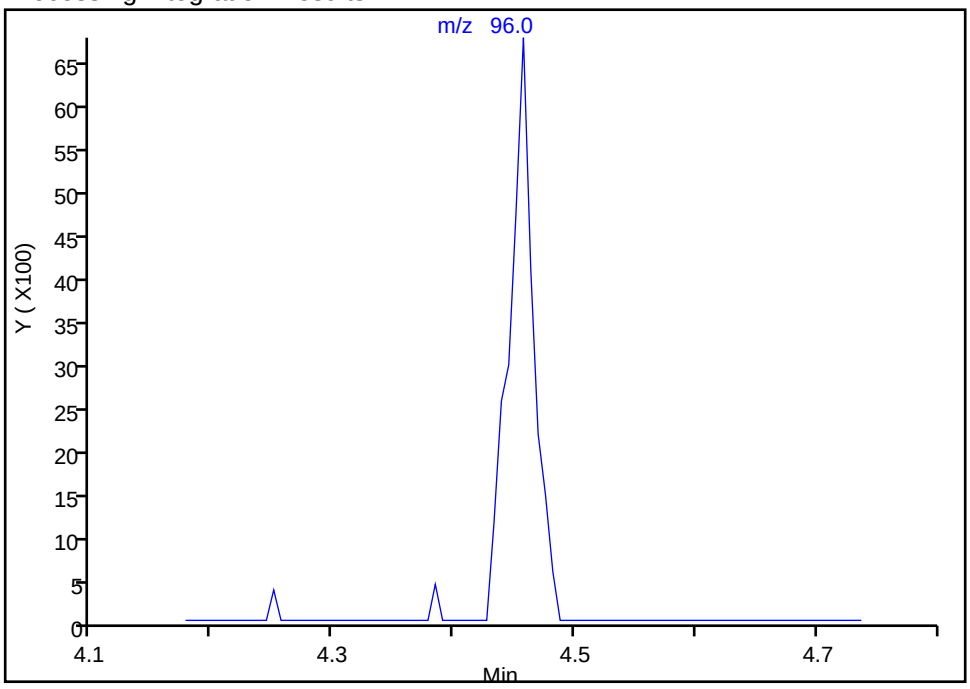
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

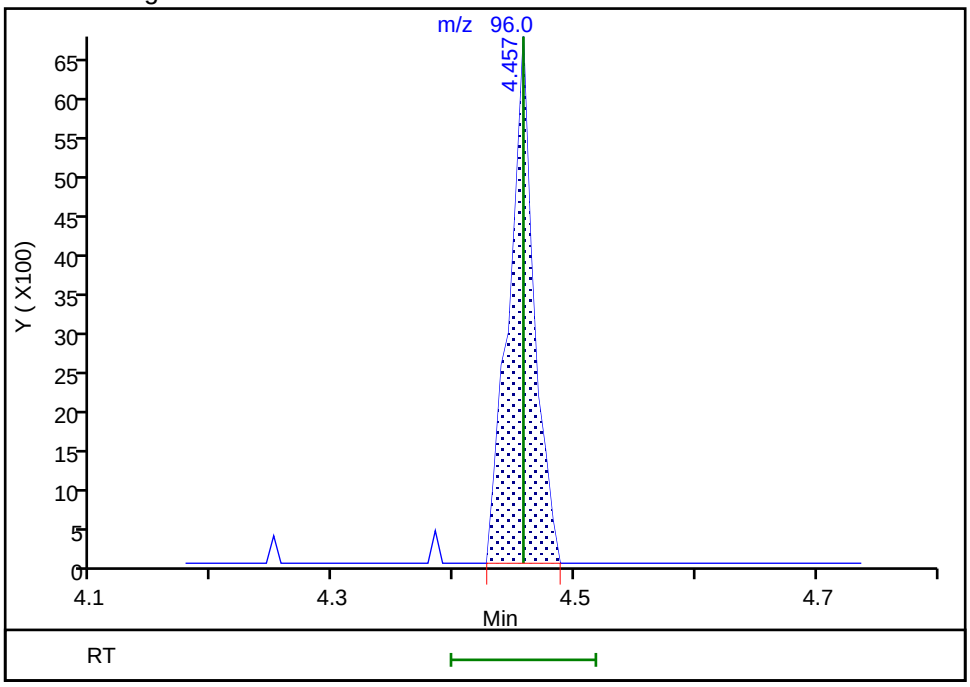
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 9571
Amount: 0.839608
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:09:29
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

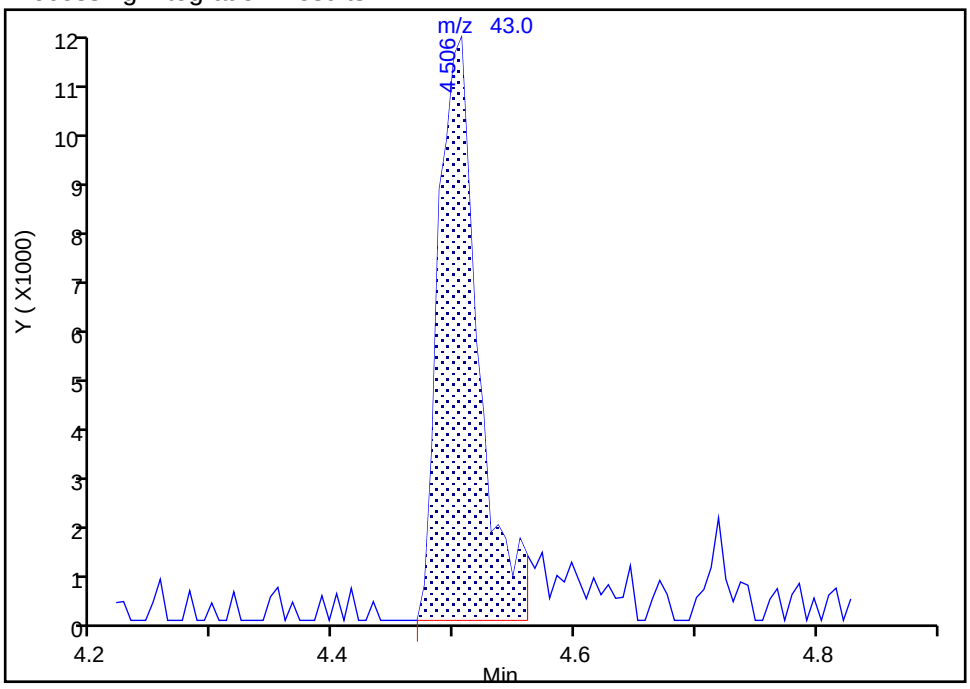
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

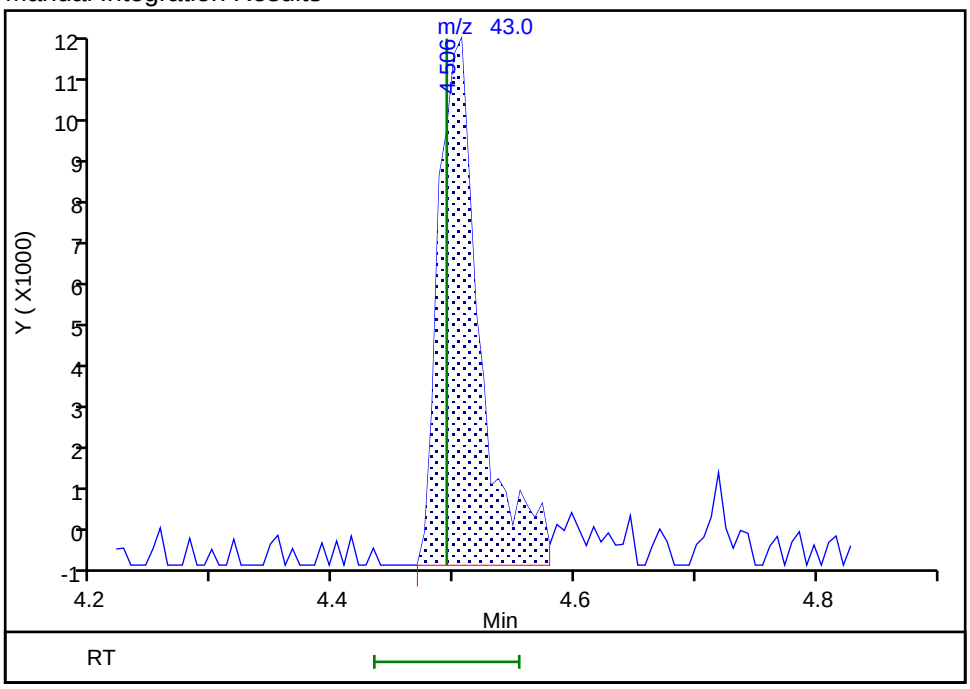
Processing Integration Results

RT: 4.51
Area: 26981
Amount: 4.675650
Amount Units: ug/L



Manual Integration Results

RT: 4.51
Area: 28054
Amount: 4.839100
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:12:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

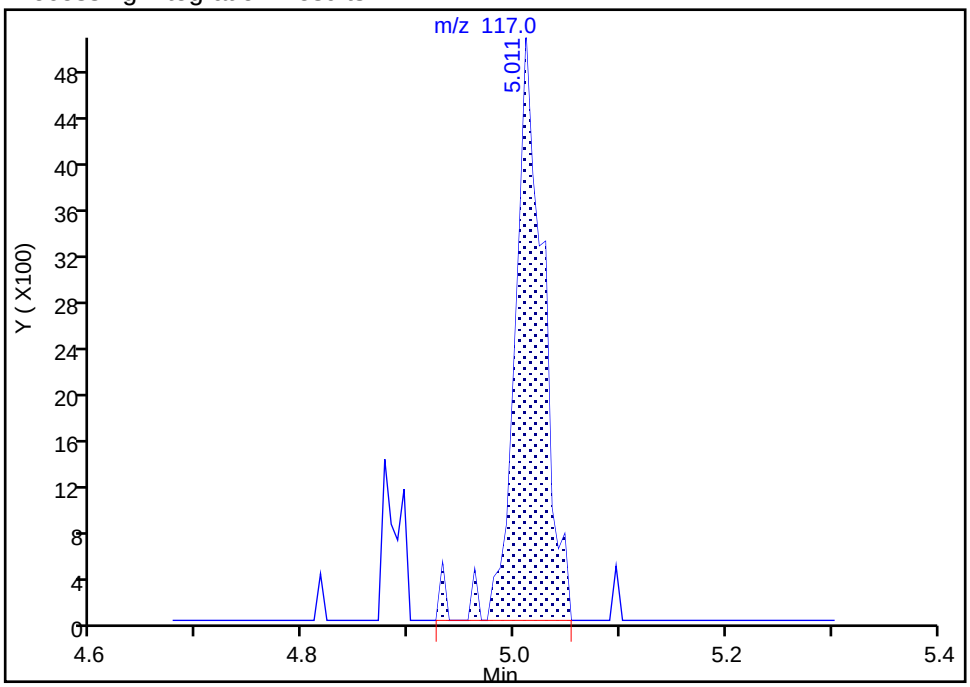
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

55 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

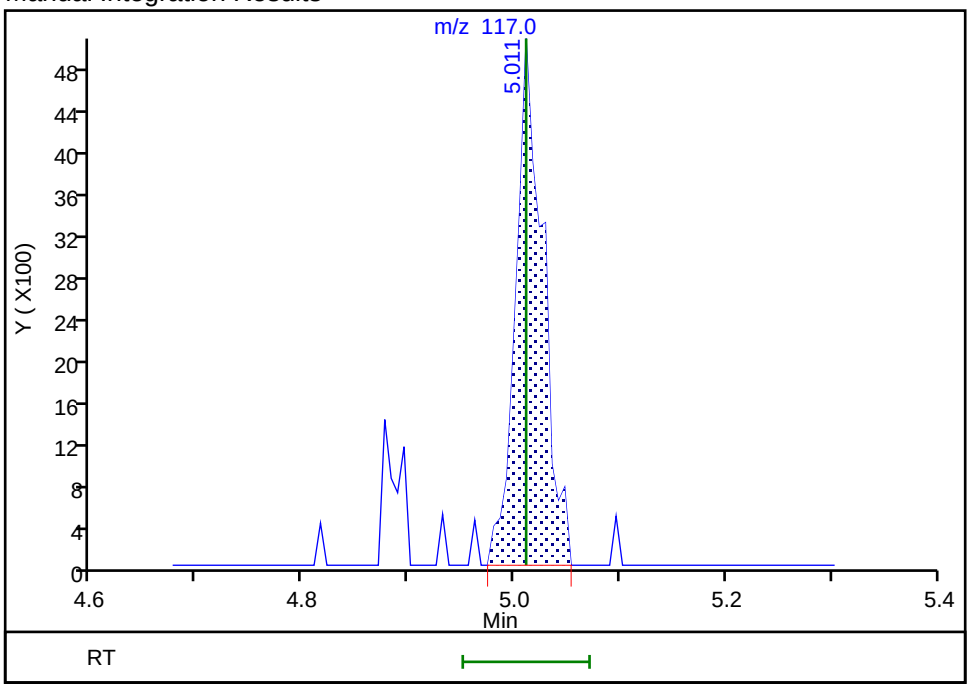
Processing Integration Results

RT: 5.01
Area: 9483
Amount: 0.829824
Amount Units: ug/L



Manual Integration Results

RT: 5.01
Area: 9145
Amount: 0.803217
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:12:40
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

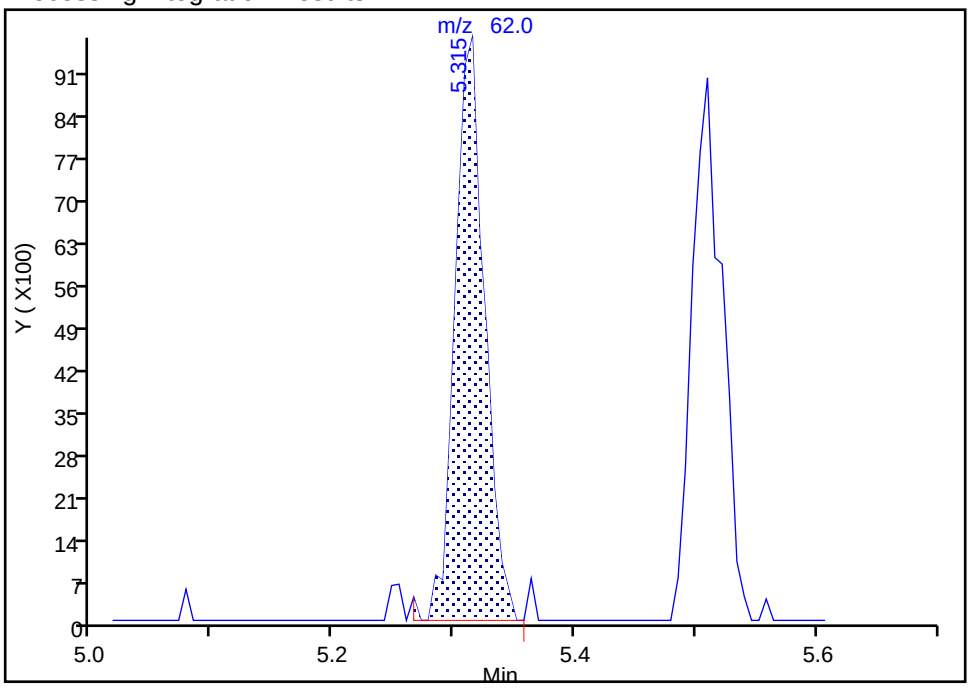
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Signal: 1

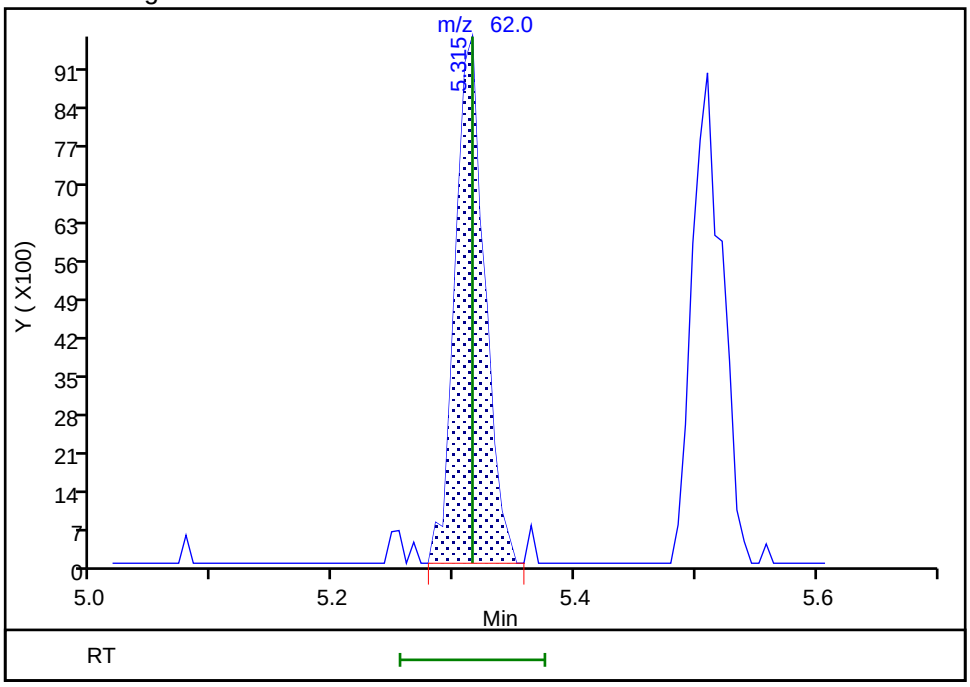
Processing Integration Results

RT: 5.32
Area: 16387
Amount: 0.973266
Amount Units: ug/L



Manual Integration Results

RT: 5.32
Area: 16247
Amount: 0.965955
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:09
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

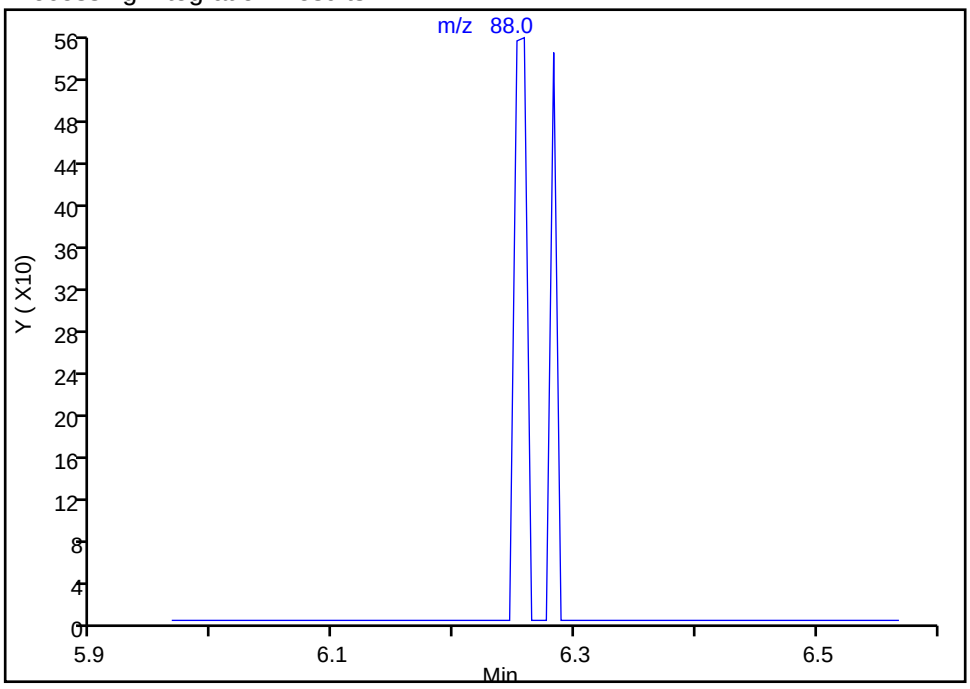
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

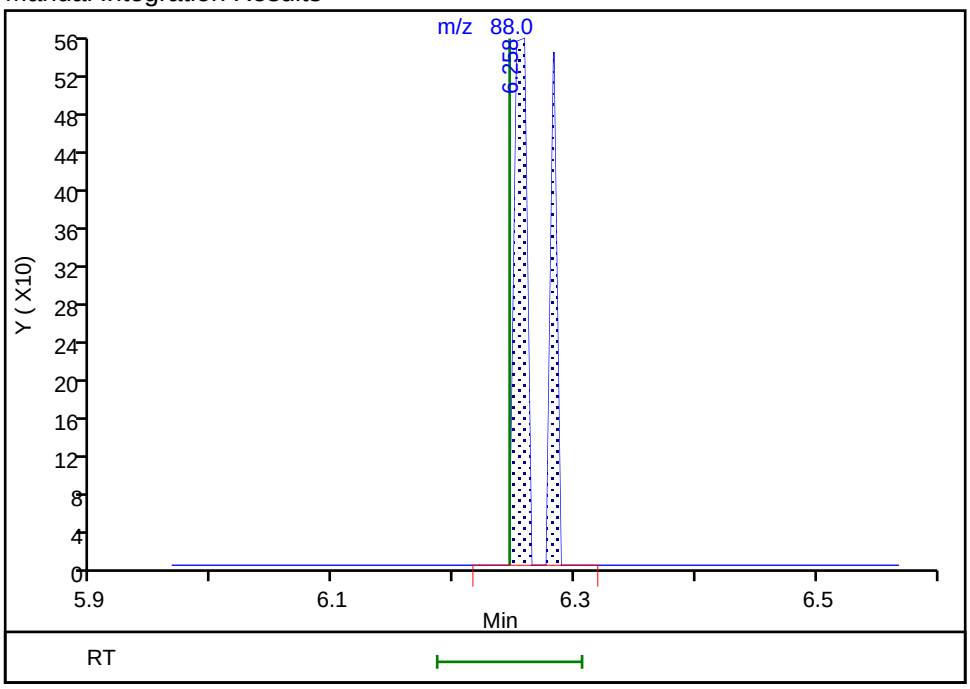
Not Detected
Expected RT: 6.25

Processing Integration Results



Manual Integration Results

RT: 6.26
Area: 597
Amount: 20.073889
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:13:31
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

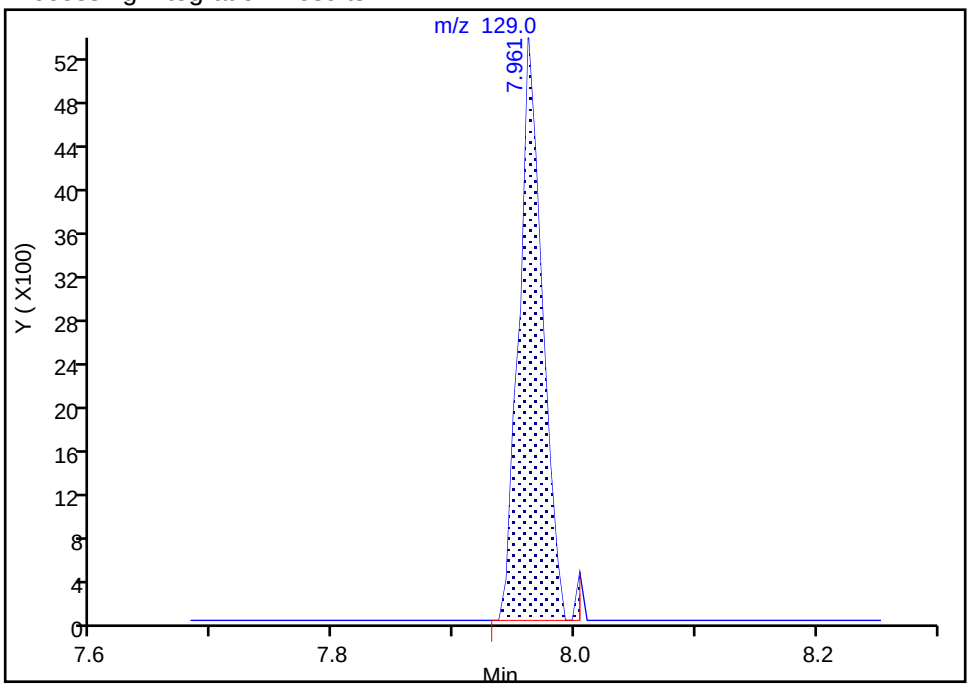
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

83 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

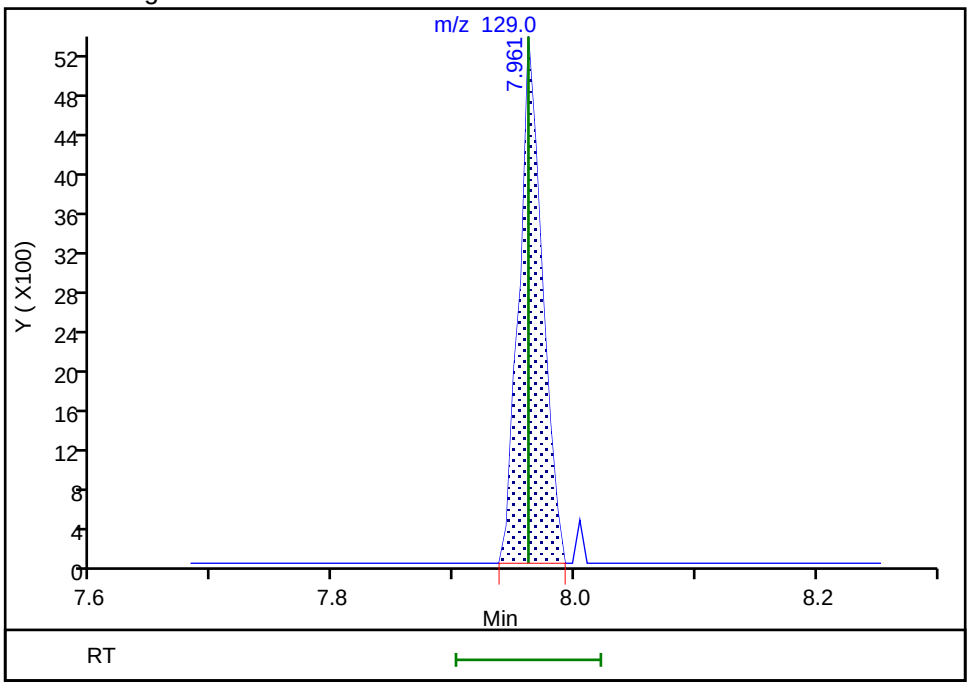
Processing Integration Results

RT: 7.96
Area: 7317
Amount: 0.828185
Amount Units: ug/L



Manual Integration Results

RT: 7.96
Area: 7156
Amount: 0.811811
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:14:35
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

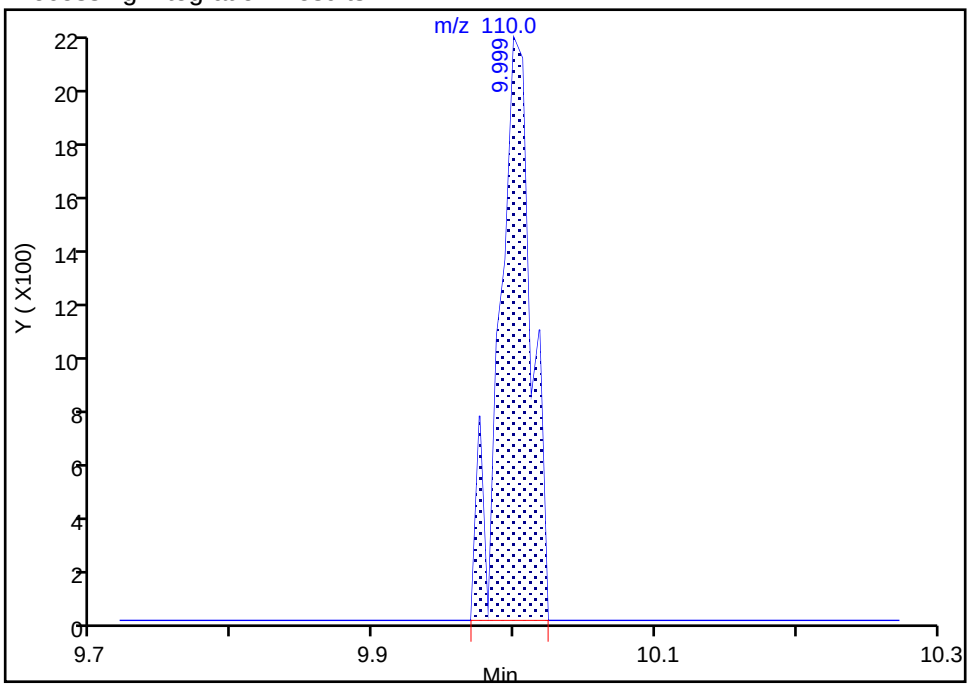
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

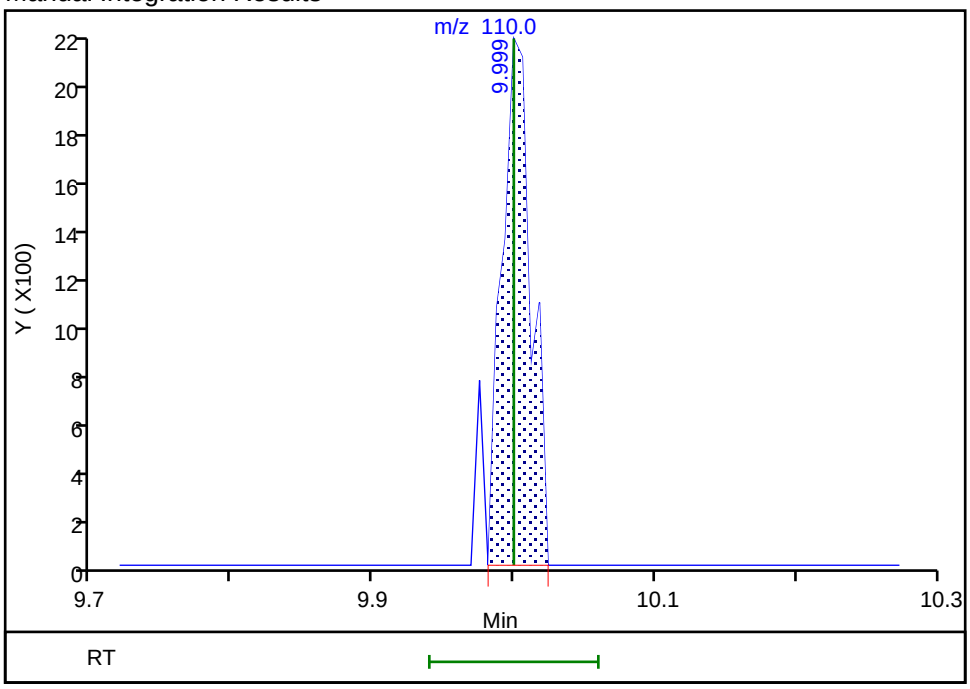
Processing Integration Results

RT: 10.00
Area: 3397
Amount: 0.806128
Amount Units: ug/L



Manual Integration Results

RT: 10.00
Area: 3120
Amount: 0.746528
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:15:00
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

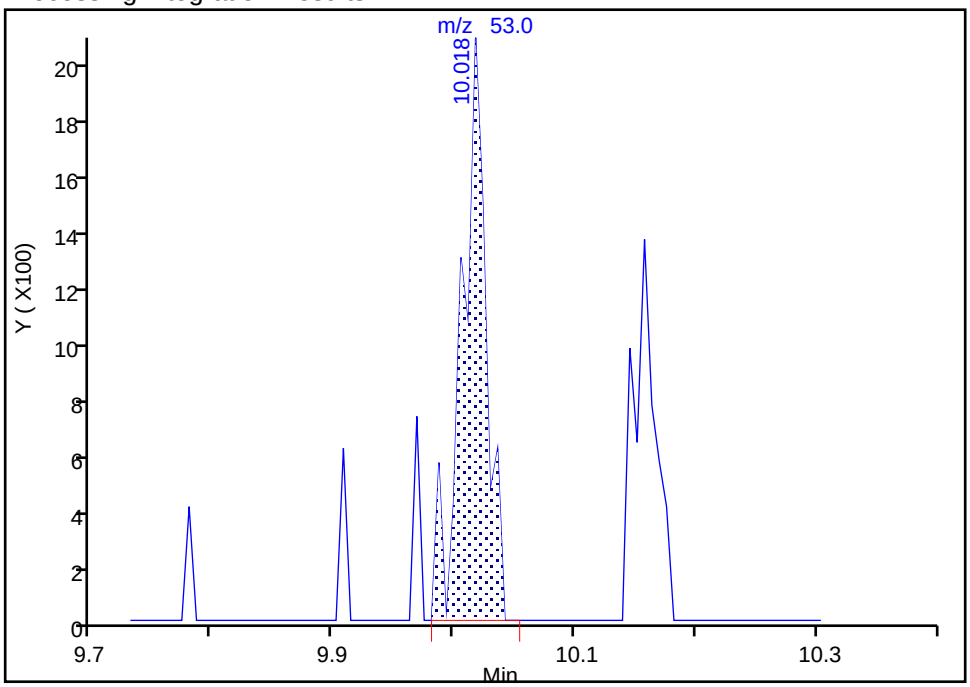
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

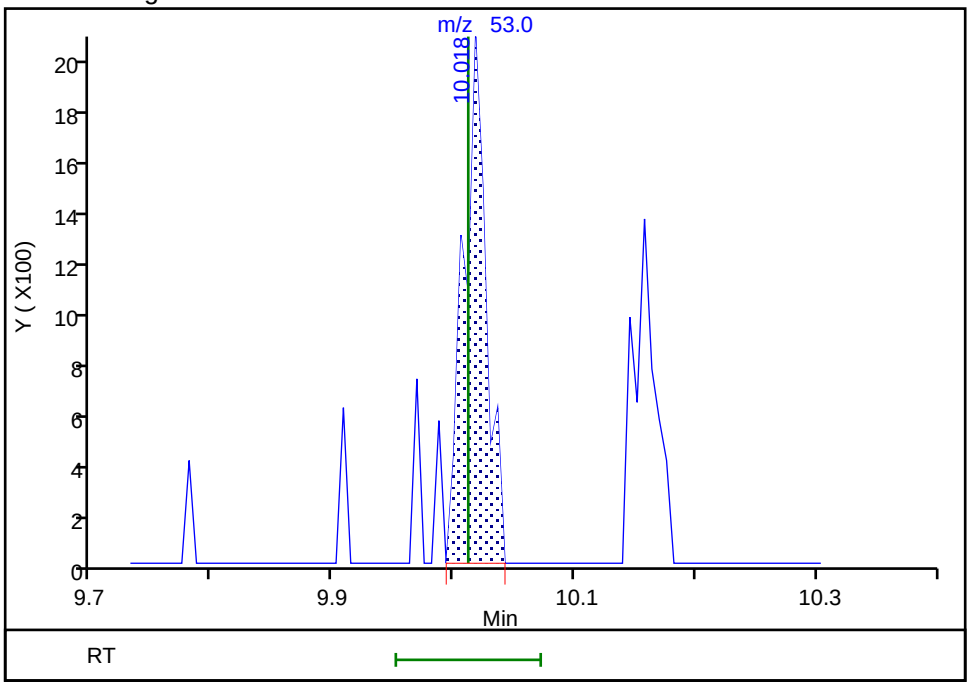
Processing Integration Results

RT: 10.02
Area: 2886
Amount: 1.070549
Amount Units: ug/L



Manual Integration Results

RT: 10.02
Area: 2682
Amount: 1.162748
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:15:10
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

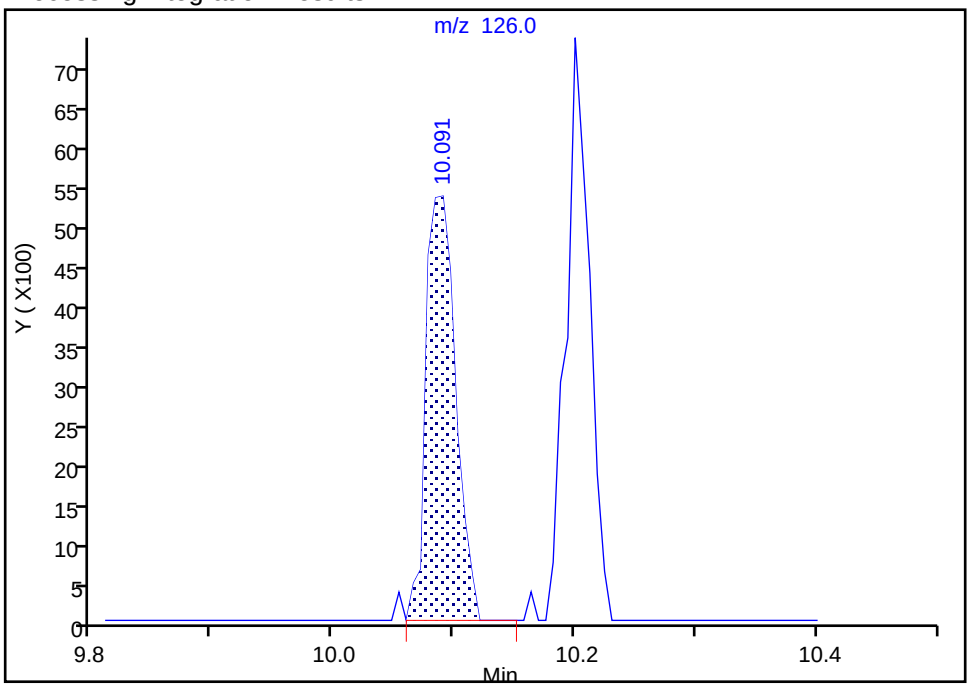
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

103 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

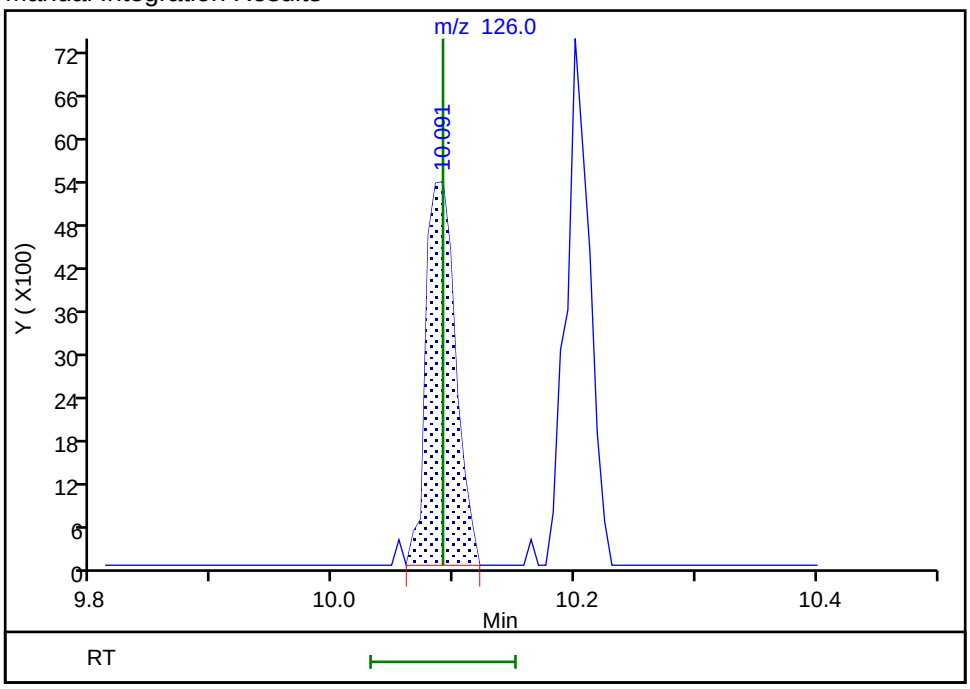
Processing Integration Results

RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L



Manual Integration Results

RT: 10.09
Area: 9082
Amount: 0.778951
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:15:16
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

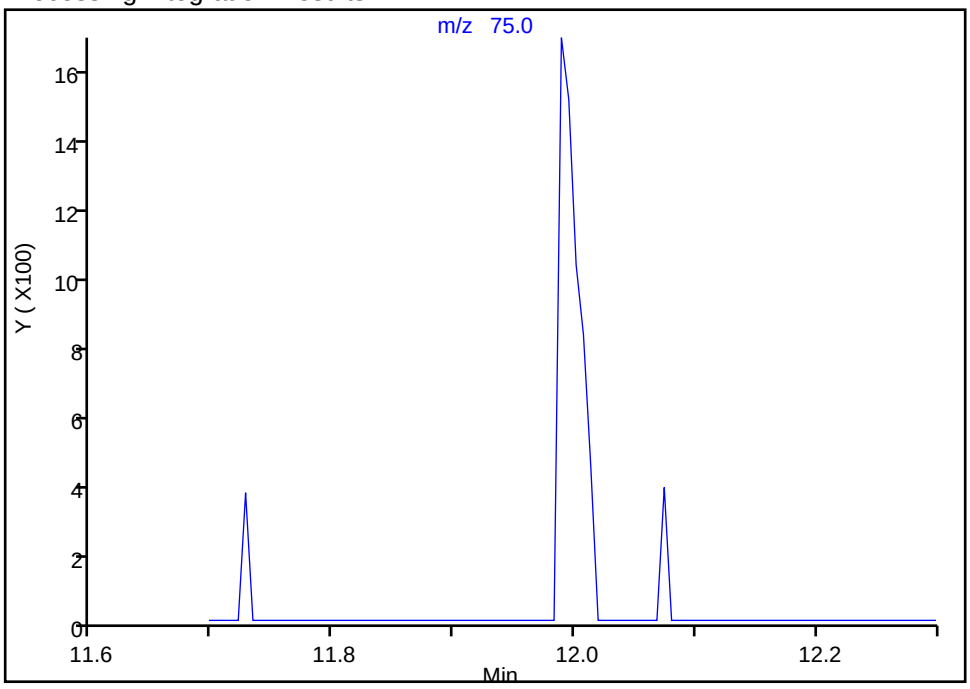
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2507.D
Injection Date: 20-Jun-2018 14:14:30 Instrument ID: HP5973S
Lims ID: IC
Client ID:
Operator ID: LH/ZV ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

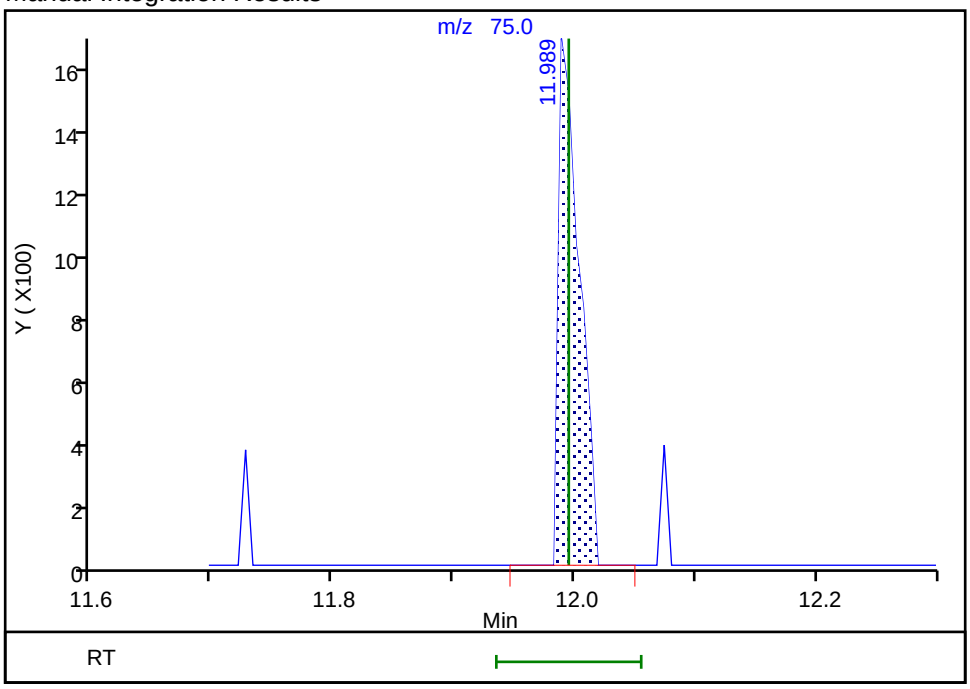
Not Detected
Expected RT: 11.99

Processing Integration Results



Manual Integration Results

RT: 11.99
Area: 1954
Amount: 0.793195
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 20:52:06
Audit Action: Manually Integrated Audit Reason: Assign Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jun-2018 14:38:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0072482-007
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:25:46 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 19:33:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	202958	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	394355	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	95	373516	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	55	237036	25.0	24.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	153545	25.0	24.1	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	987838	25.0	25.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	296734	25.0	25.2	
10 Dichlorodifluoromethane	85	1.276	1.282	-0.006	48	15348	2.00	1.57	
12 Chloromethane	50	1.464	1.464	0.000	69	31418	2.00	2.02	
13 Vinyl chloride	62	1.555	1.549	0.006	74	26352	2.00	1.91	
151 Butadiene	54	1.580	1.574	0.006	79	27634	2.00	1.92	
14 Bromomethane	94	1.872	1.872	0.000	76	13102	2.00	1.77	M
15 Chloroethane	64	1.981	1.969	0.012	40	15522	2.00	1.86	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	61	24492	2.00	1.87	M
16 Dichlorofluoromethane	67	2.206	2.194	0.012	58	32362	2.00	1.77	M
18 Ethyl ether	59	2.498	2.492	0.006	75	22137	2.00	1.90	
20 Acrolein	56	2.687	2.687	0.000	77	19651	10.0	8.82	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	12	12129	2.00	1.88	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	67	18776	2.00	2.09	M
23 Acetone	43	2.851	2.851	0.000	92	45897	10.0	11.8	M
25 Iodomethane	142	2.900	2.894	0.006	83	23539	2.00	1.80	M
26 Carbon disulfide	76	2.918	2.918	0.000	91	56275	2.00	1.97	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	85	34229	2.00	1.97	
27 Methyl acetate	43	3.149	3.143	0.006	88	47623	4.00	4.65	
30 Methylene Chloride	84	3.253	3.253	0.000	87	42609	2.00	2.06	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	89	23908	20.0	18.1	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	85	67897	2.00	2.02	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	21095	2.00	2.06	
33 Acrylonitrile	53	3.545	3.539	0.006	98	110281	20.0	20.2	
35 Hexane	57	3.666	3.660	0.006	81	34429	2.00	1.82	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.904	3.892	0.012	75	44053	2.00	2.04	
37 Vinyl acetate	43	3.952	3.952	0.000	93	101560	4.00	4.08	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	73	23960	2.00	2.00	
45 cis-1,2-Dichloroethene	96	4.463	4.457	0.006	70	22561	2.00	1.91	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	91	58111	10.0	9.69	
48 Chlorobromomethane	128	4.695	4.695	0.000	79	11538	2.00	2.05	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	15949	4.00	3.87	
50 Chloroform	83	4.768	4.774	-0.006	84	38075	2.00	2.02	
51 1,1,1-Trichloroethane	97	4.871	4.877	-0.006	62	26672	2.00	1.90	
52 Cyclohexane	56	4.877	4.883	-0.006	83	35177	2.00	1.86	
55 Carbon tetrachloride	117	5.011	5.011	0.000	63	24702	2.00	2.10	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	86	30749	2.00	2.15	
57 Benzene	78	5.236	5.236	0.000	53	85767	2.00	1.99	
53 Isobutyl alcohol	43	5.266	5.266	0.000	63	28420	50.0	51.0	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	56	36030	2.00	2.07	
59 n-Heptane	43	5.406	5.412	-0.006	92	34128	2.00	1.94	M
62 Trichloroethene	95	5.850	5.850	0.000	83	22060	2.00	1.99	
64 Methylcyclohexane	83	5.966	5.960	0.006	87	31597	2.00	1.87	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	84	26992	2.00	2.08	
67 Dibromomethane	93	6.234	6.234	0.000	77	12583	2.00	1.86	
66 1,4-Dioxane	88	6.240	6.246	-0.006	24	2267	40.0	38.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	80	23598	2.00	1.81	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	75	15014	2.00	1.73	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	71	30883	2.00	1.88	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	137972	10.0	11.0	
74 Toluene	92	7.092	7.085	0.007	74	54960	2.00	2.10	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	86	28095	2.00	1.95	
75 Ethyl methacrylate	69	7.420	7.414	0.006	58	28412	2.00	2.01	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	82	17708	2.00	2.24	
81 Tetrachloroethene	166	7.621	7.615	0.006	83	22036	2.00	1.99	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	84	35902	2.00	2.16	
80 2-Hexanone	43	7.797	7.791	0.006	77	98893	10.0	10.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	66	18127	2.00	2.02	
84 Ethylene Dibromide	107	8.065	8.071	-0.006	76	19979	2.00	2.01	
87 Chlorobenzene	112	8.539	8.539	0.000	86	60005	2.00	2.09	
88 Ethylbenzene	91	8.631	8.631	0.000	95	101499	2.00	2.15	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	43	19212	2.00	2.07	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	39460	2.00	2.05	
91 o-Xylene	106	9.178	9.178	0.000	94	38904	2.00	2.13	
92 Styrene	104	9.209	9.209	0.000	89	64472	2.00	2.06	
95 Bromoform	173	9.470	9.464	0.006	64	9957	2.00	1.74	
94 Isopropylbenzene	105	9.555	9.561	-0.006	89	97764	2.00	2.08	
101 Bromobenzene	156	9.908	9.908	0.000	88	23921	2.00	2.01	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	59	25318	2.00	1.98	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	112308	2.00	2.06	
100 1,2,3-Trichloropropane	110	10.006	9.999	0.007	65	7744	2.00	1.84	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	45	6261	2.00	1.92	
103 2-Chlorotoluene	126	10.091	10.091	0.000	92	23261	2.00	1.98	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	86	82695	2.00	2.02	
105 4-Chlorotoluene	126	10.200	10.200	0.000	79	26092	2.00	2.17	
106 tert-Butylbenzene	134	10.480	10.474	0.006	84	17151	2.00	1.97	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	69	85998	2.00	2.06	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.681	10.687	-0.006	88	101392	2.00	2.07	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	69	48178	2.00	2.08	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	93	85693	2.00	2.03	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	53	49506	2.00	2.10	
115 n-Butylbenzene	91	11.210	11.210	0.000	90	80619	2.00	2.12	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	89	46309	2.00	2.03	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	34	4266	2.00	1.72	
119 1,2,4-Trichlorobenzene	180	12.658	12.664	-0.006	71	35174	2.00	2.17	
120 Hexachlorobutadiene	225	12.774	12.767	0.007	68	15718	2.00	2.03	
121 Naphthalene	128	12.883	12.877	0.006	93	89284	2.00	2.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	86	28319	2.00	1.89	
S 123 Total BTEX	1				0			10.4	
S 125 1,2-Dichloroethene, Total	1				0			3.97	
S 124 Xylenes, Total	1				0			4.19	
S 126 1,3-Dichloropropene, Total	1				0			3.83	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added:	2.00	Units: uL	
GAS CORP mix_00287	Amount Added:	2.00	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 21-Jun-2018 14:25:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D

Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S Operator ID: LH/ZV

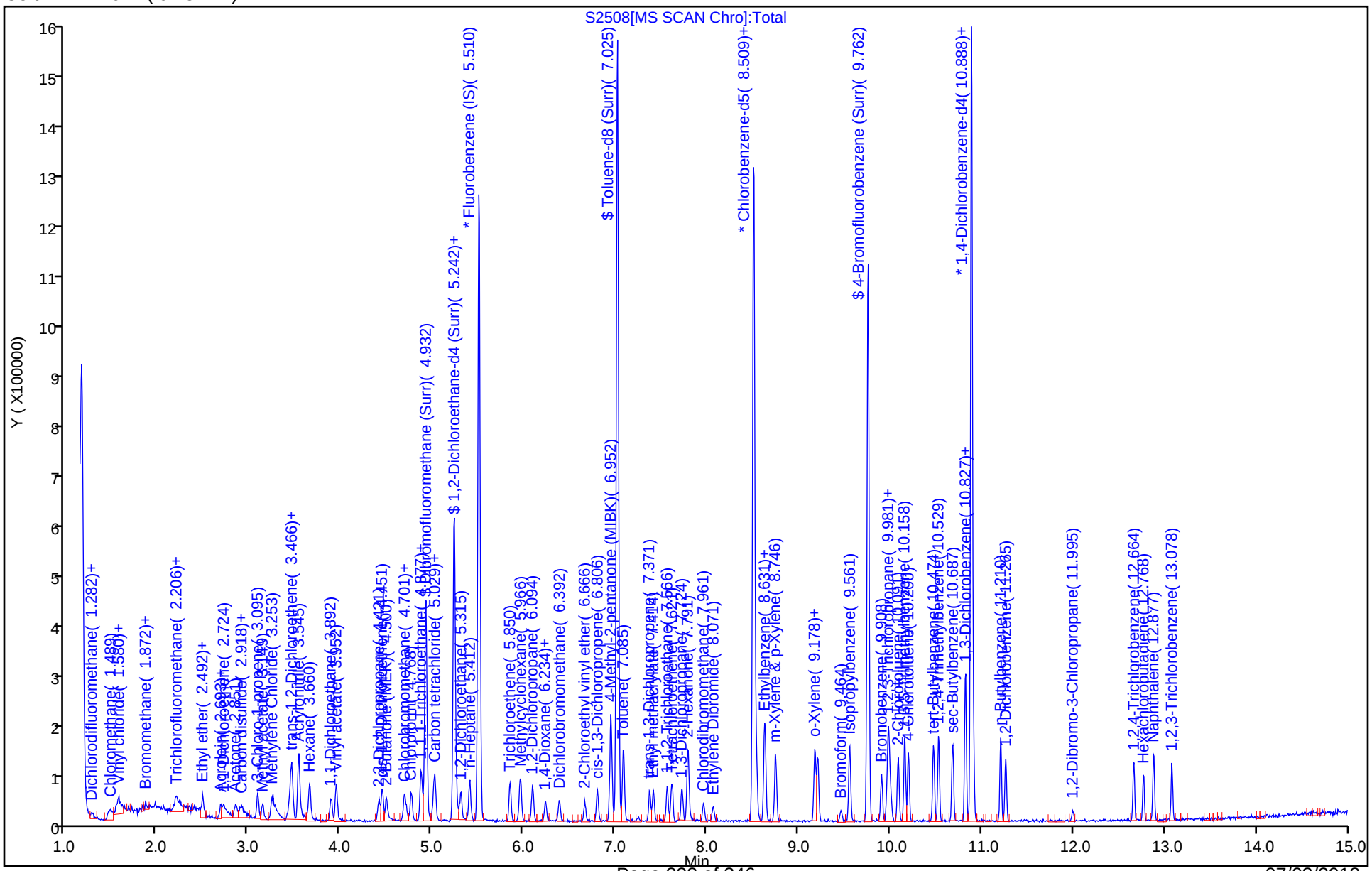
Lims ID: IC 2 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: S-8260 Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

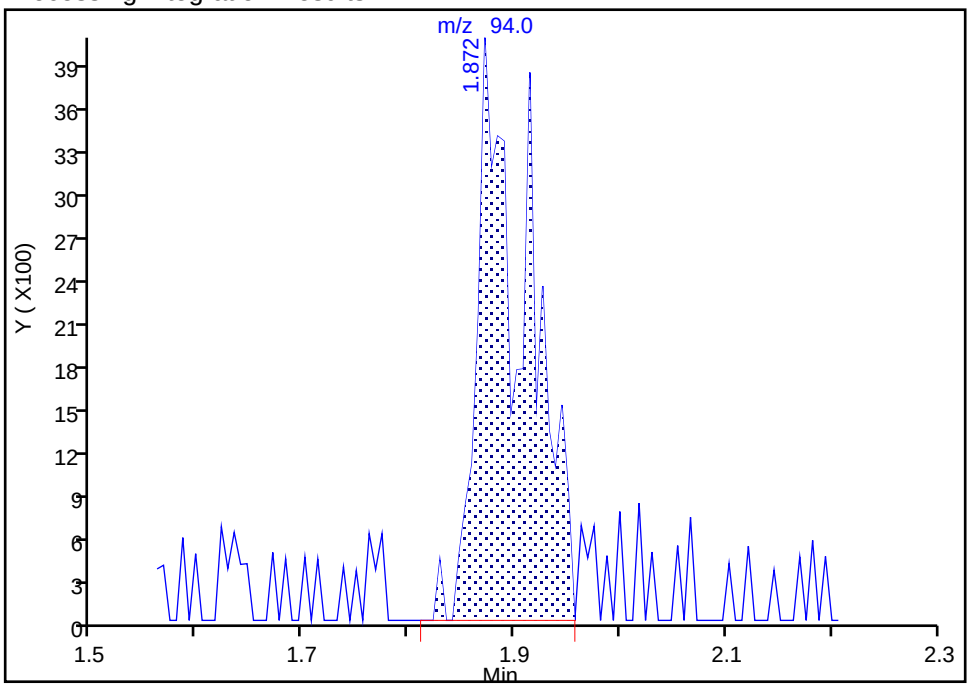
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

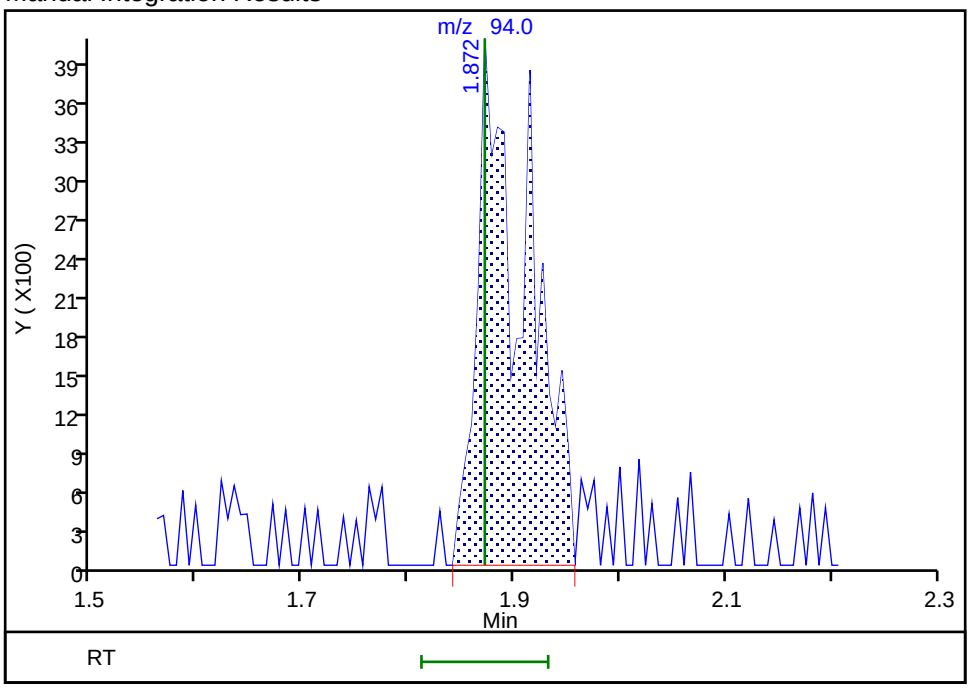
Processing Integration Results

RT: 1.87
Area: 13255
Amount: 1.789184
Amount Units: ug/L



Manual Integration Results

RT: 1.87
Area: 13102
Amount: 1.770817
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:16:25
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

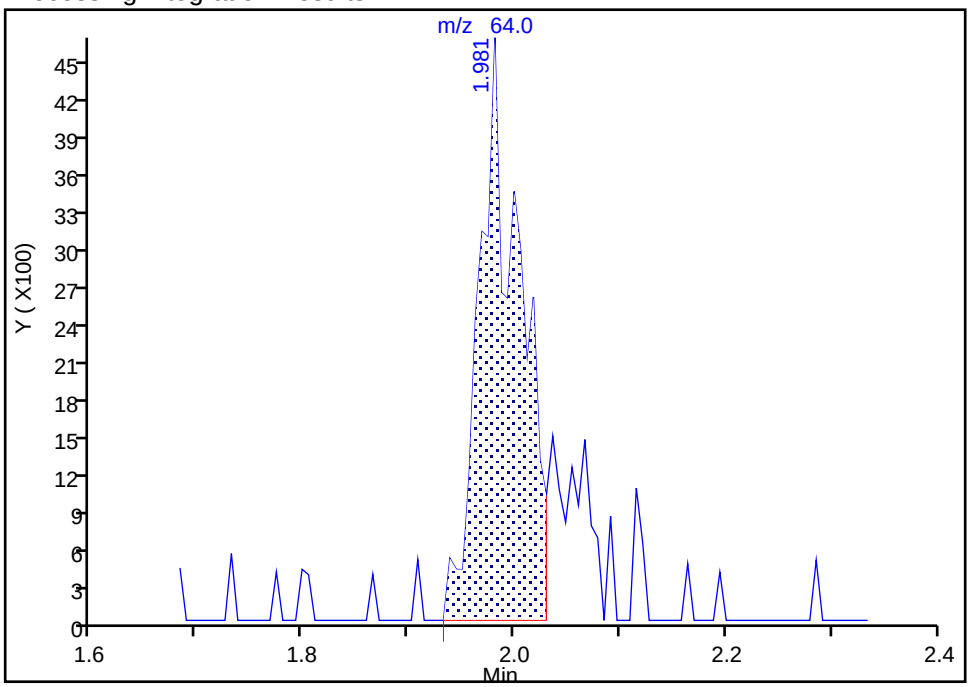
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

15 Chloroethane, CAS: 75-00-3

Signal: 1

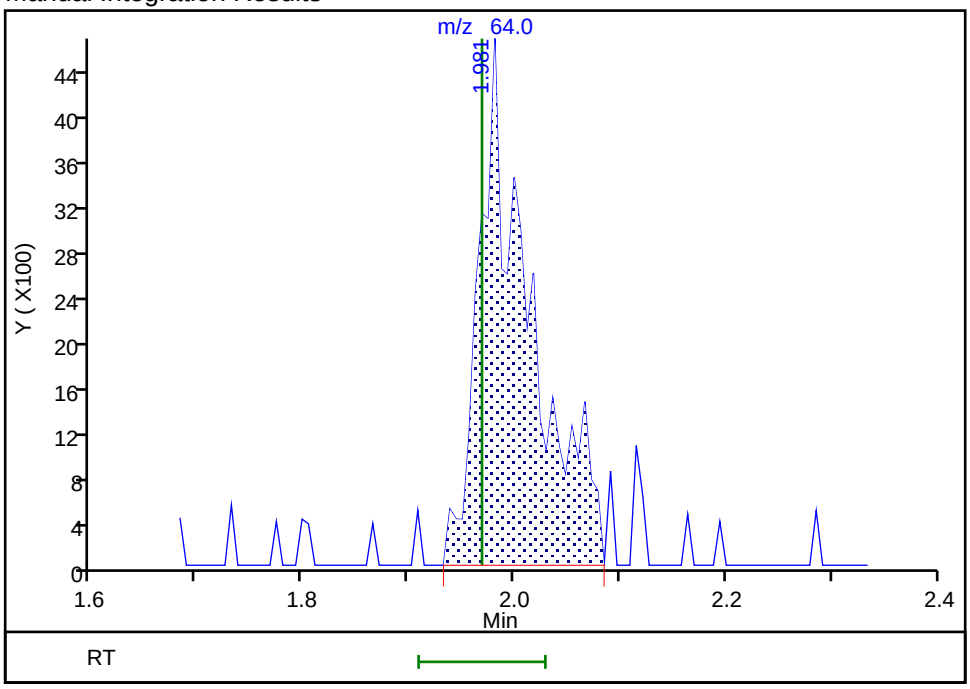
Processing Integration Results

RT: 1.98
Area: 12491
Amount: 1.531681
Amount Units: ug/L



Manual Integration Results

RT: 1.98
Area: 15522
Amount: 1.857410
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:47:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

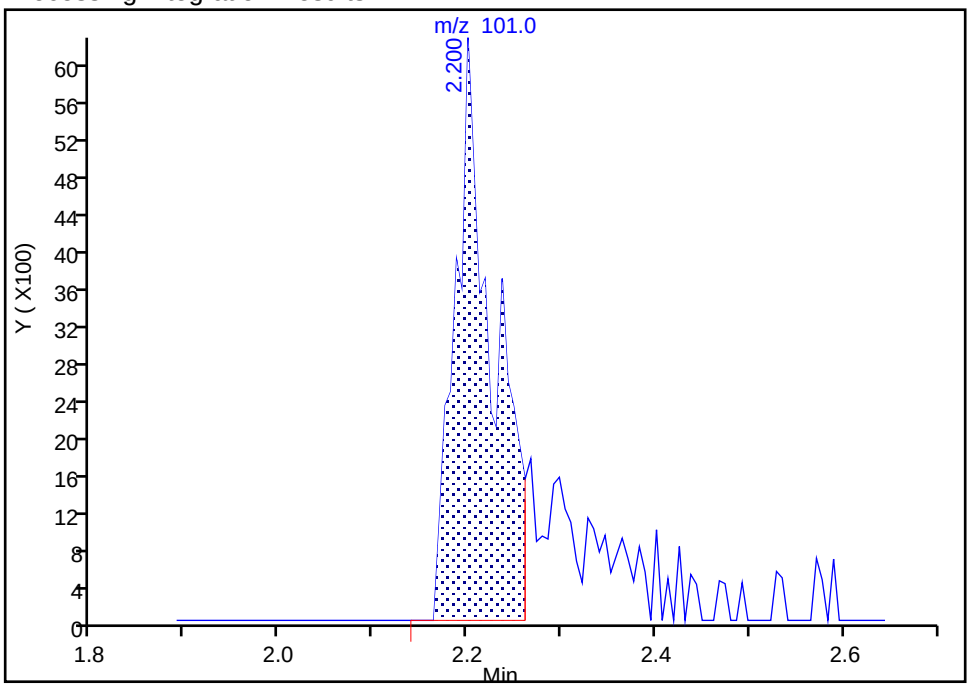
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

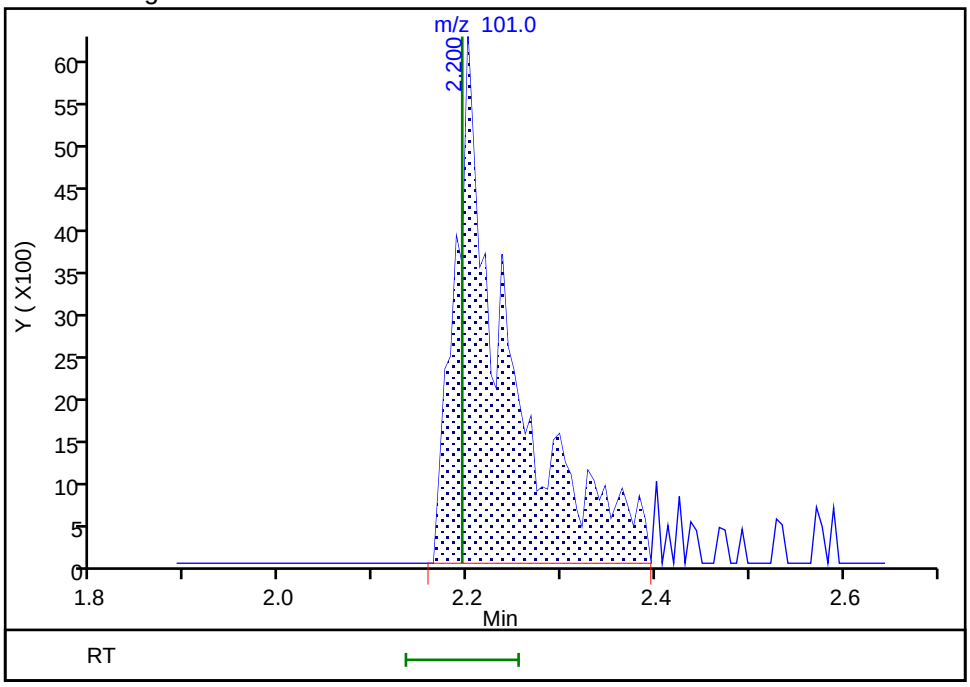
Processing Integration Results

RT: 2.20
Area: 17555
Amount: 1.517755
Amount Units: ug/L



Manual Integration Results

RT: 2.20
Area: 24492
Amount: 1.872069
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:48:16
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

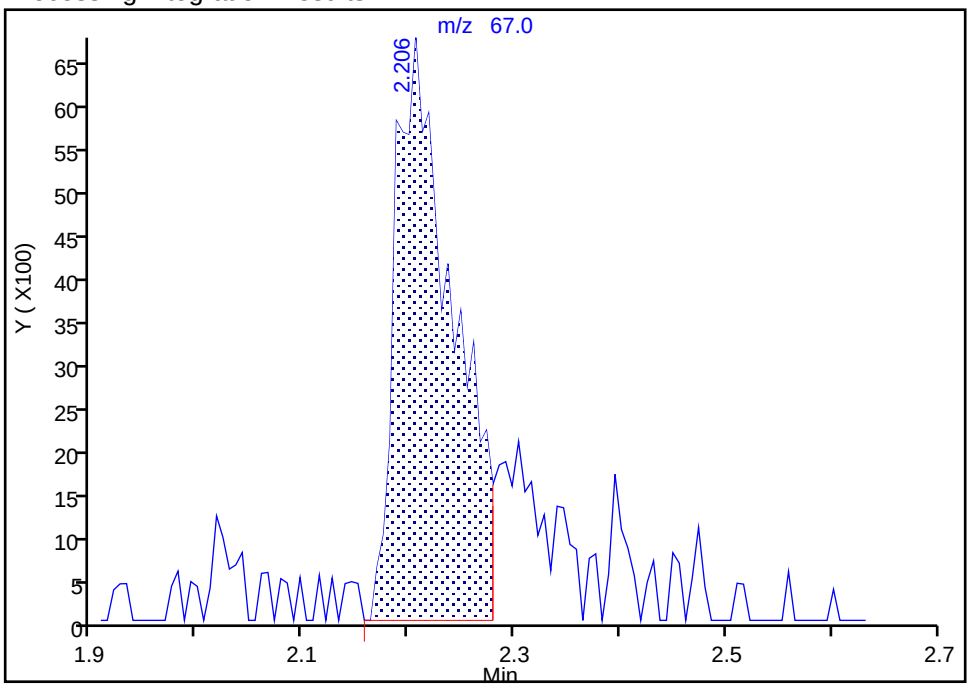
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

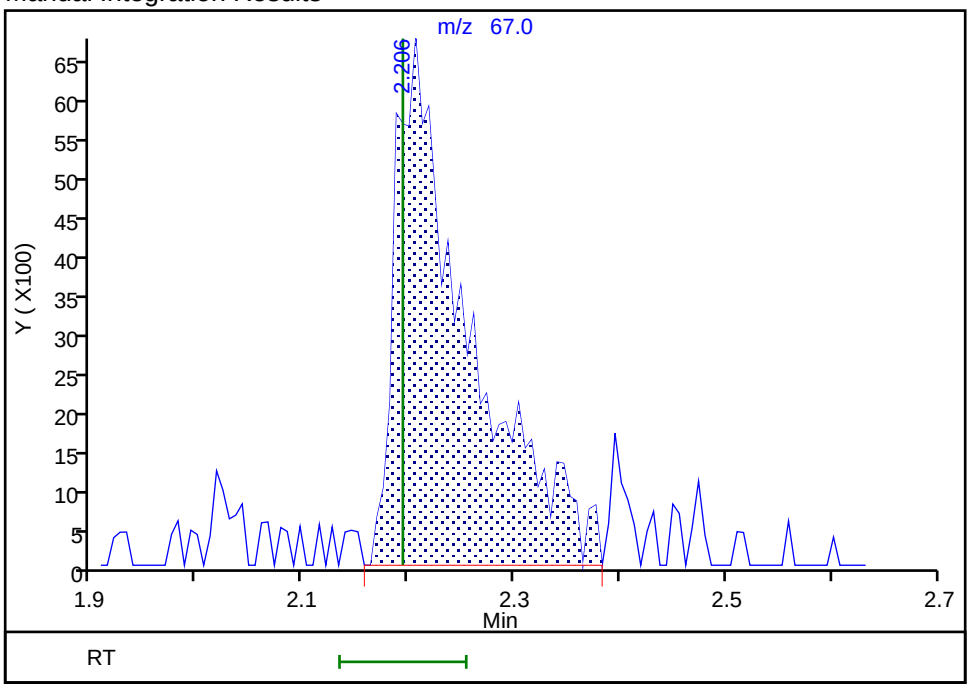
Processing Integration Results

RT: 2.21
Area: 25443
Amount: 1.492939
Amount Units: ug/L



Manual Integration Results

RT: 2.21
Area: 32362
Amount: 1.767578
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:48:39
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

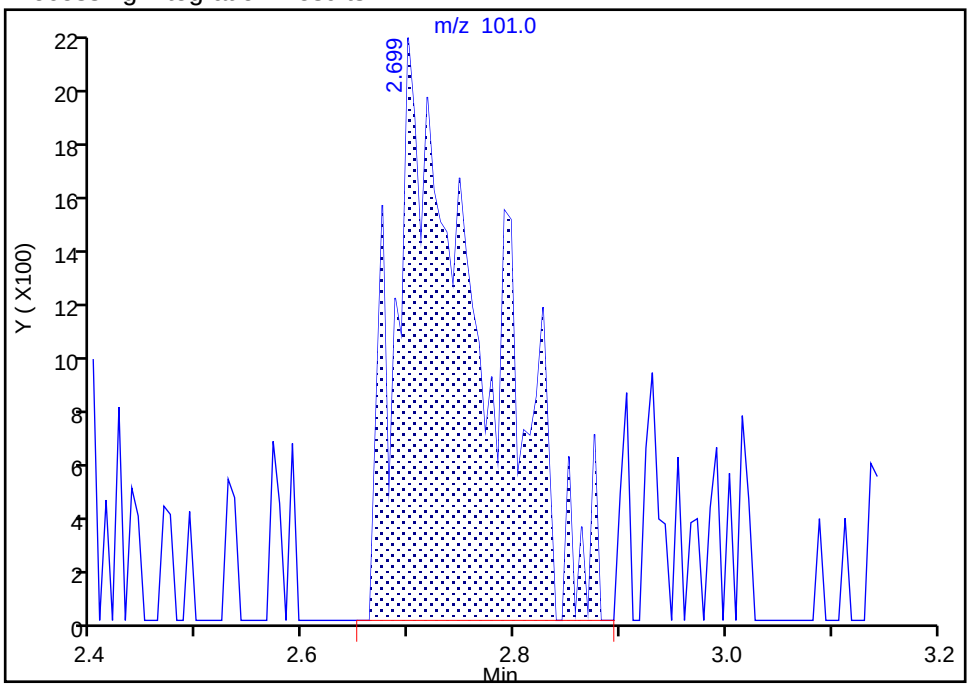
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

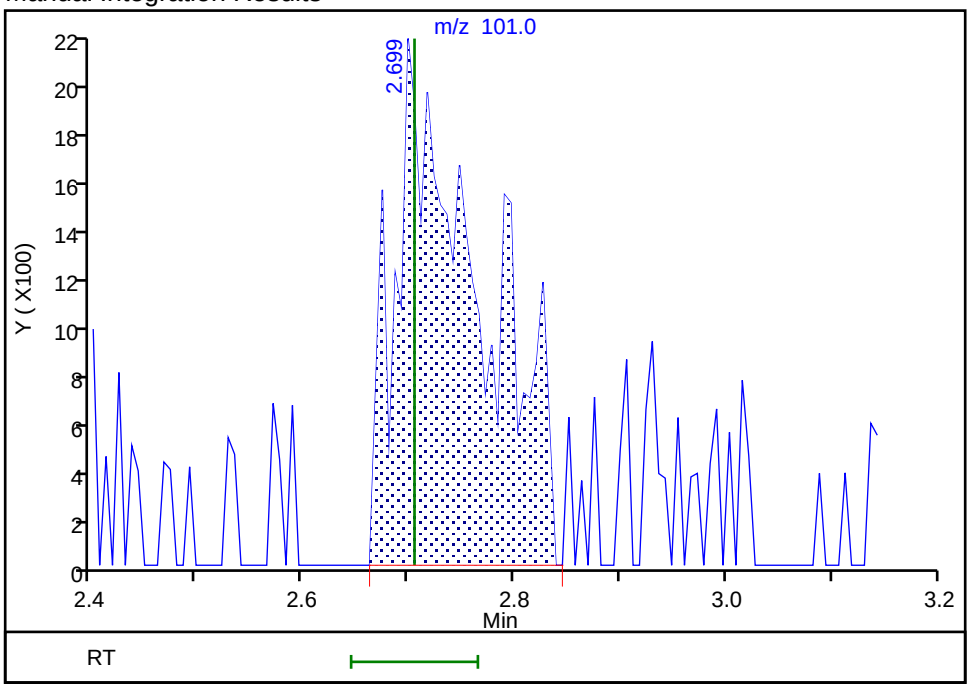
Processing Integration Results

RT: 2.70
Area: 12735
Amount: 2.086698
Amount Units: ug/L



Manual Integration Results

RT: 2.70
Area: 12129
Amount: 1.875033
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:16:41
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

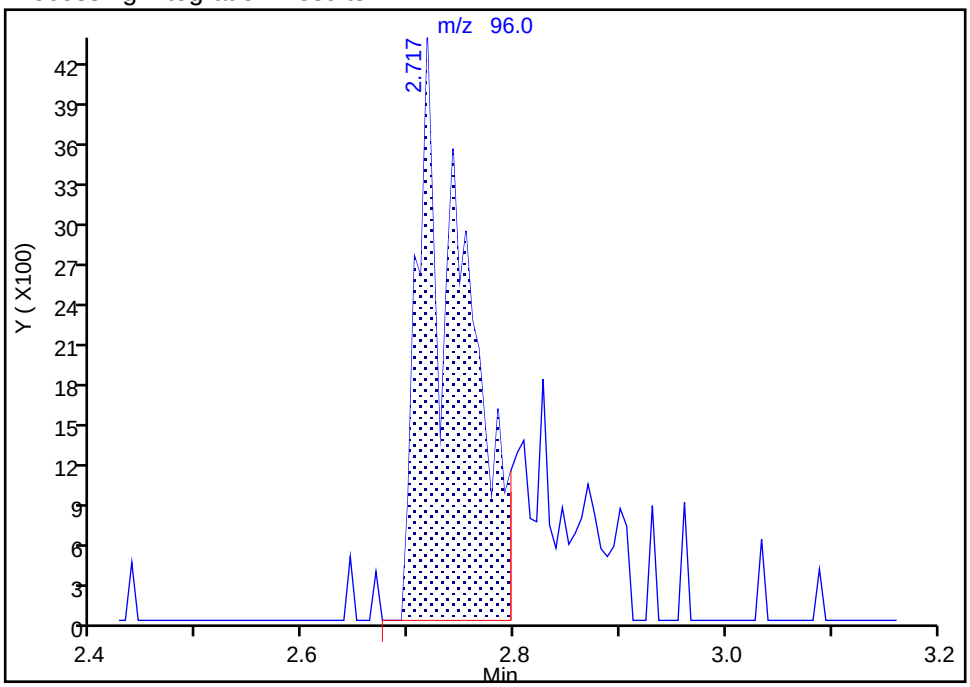
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

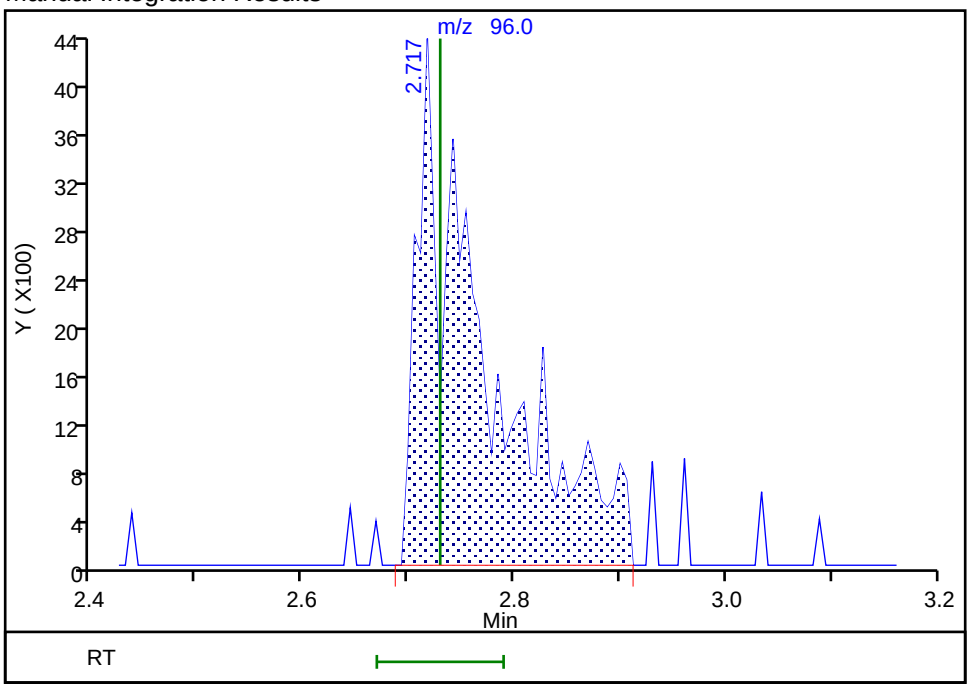
Processing Integration Results

RT: 2.72
Area: 13311
Amount: 1.727229
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 18776
Amount: 2.094349
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:16:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

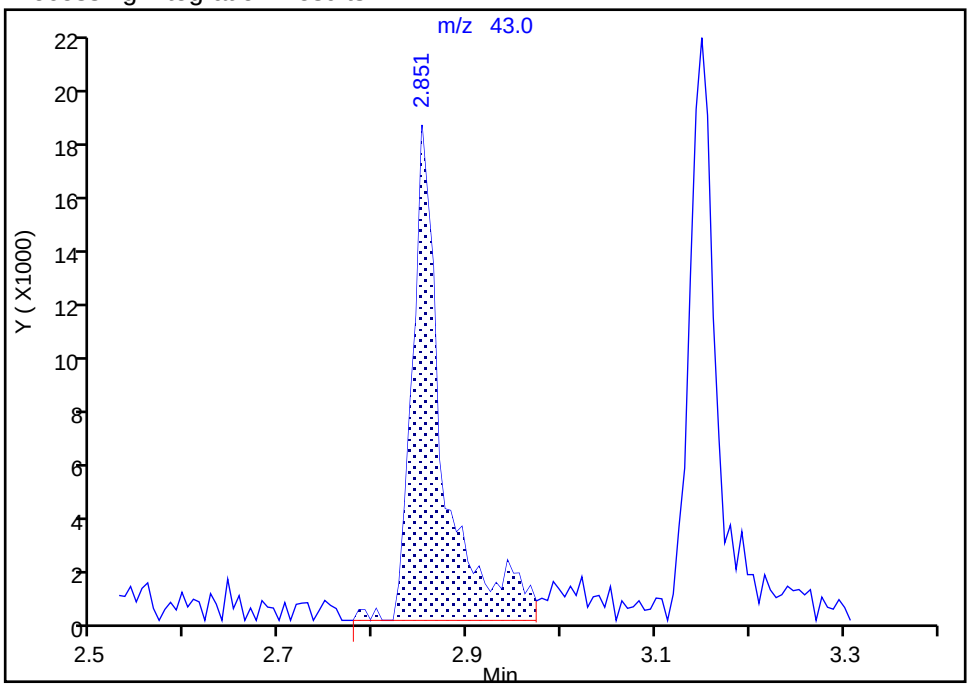
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1

Signal: 1

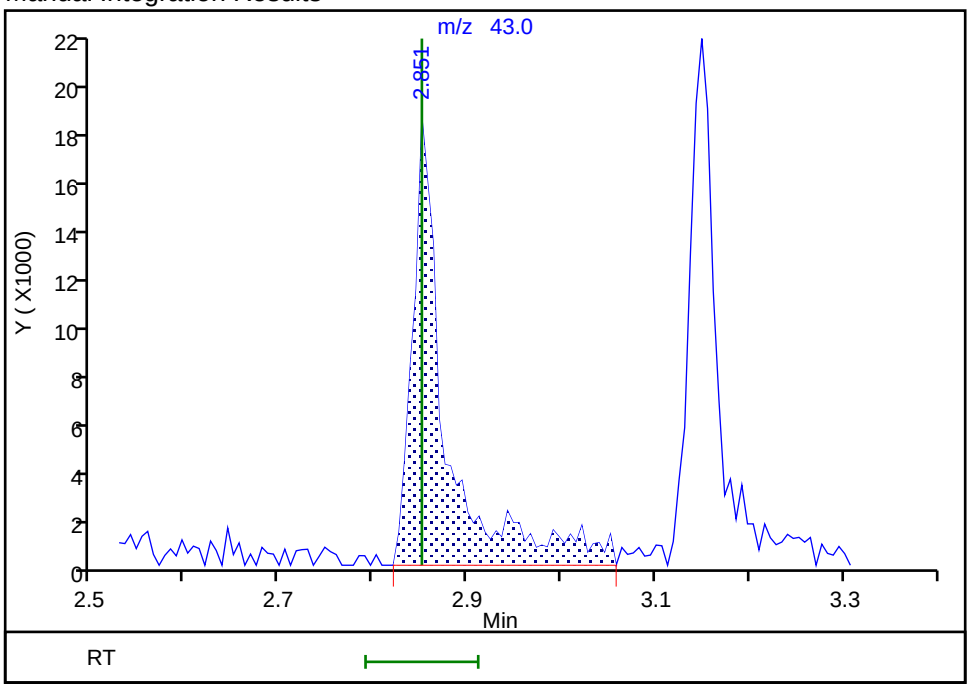
Processing Integration Results

RT: 2.85
Area: 41648
Amount: 9.924223
Amount Units: ug/L



Manual Integration Results

RT: 2.85
Area: 45897
Amount: 11.753991
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:49:47
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

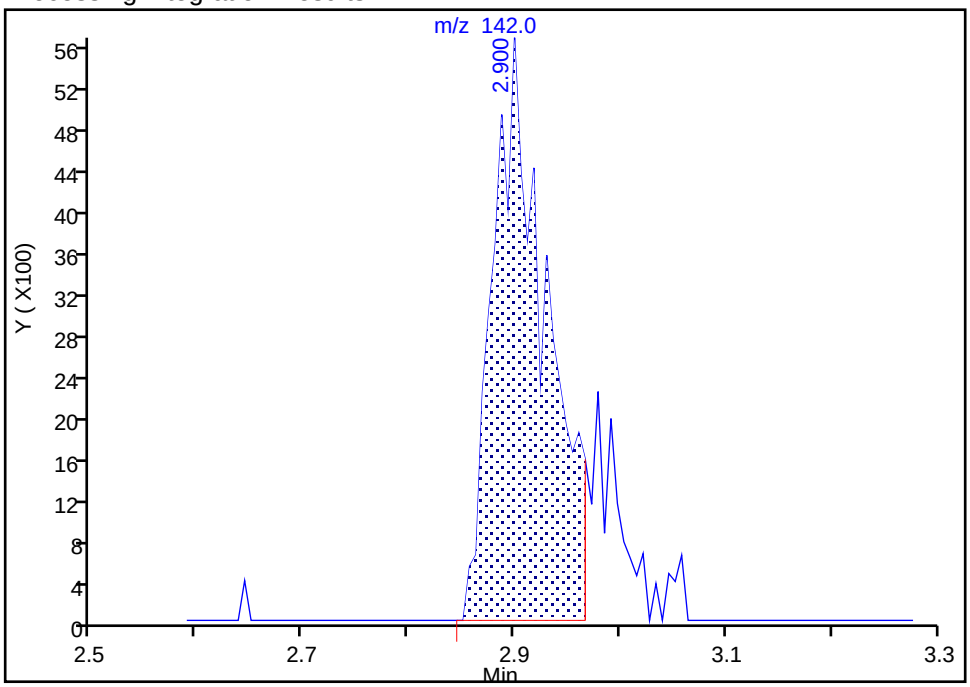
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

25 Iodomethane, CAS: 74-88-4

Signal: 1

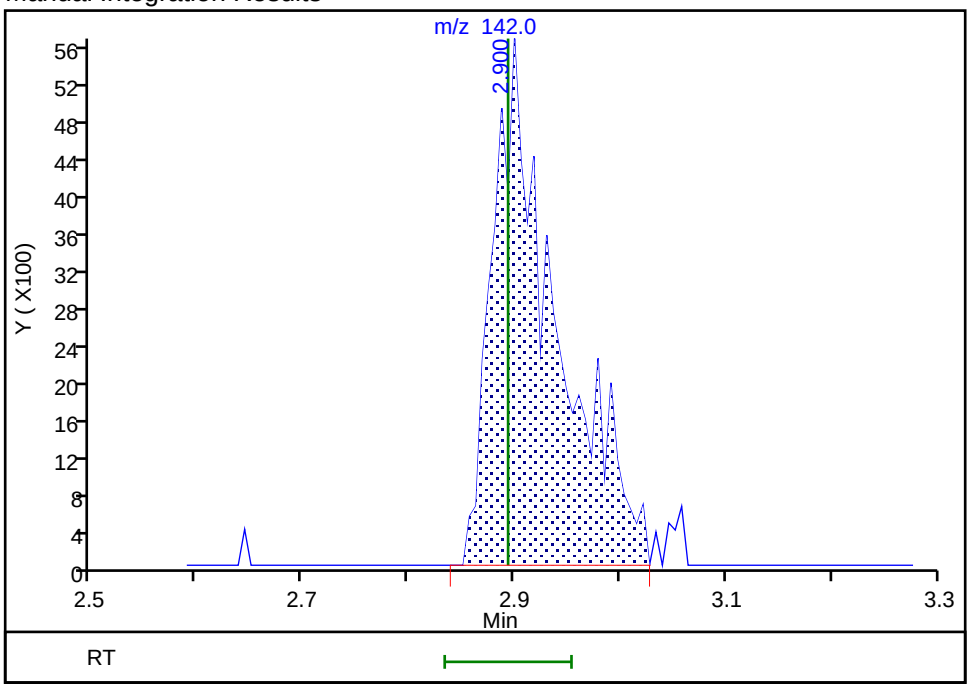
Processing Integration Results

RT: 2.90
Area: 19972
Amount: 1.497511
Amount Units: ug/L



Manual Integration Results

RT: 2.90
Area: 23539
Amount: 1.795323
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:50:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

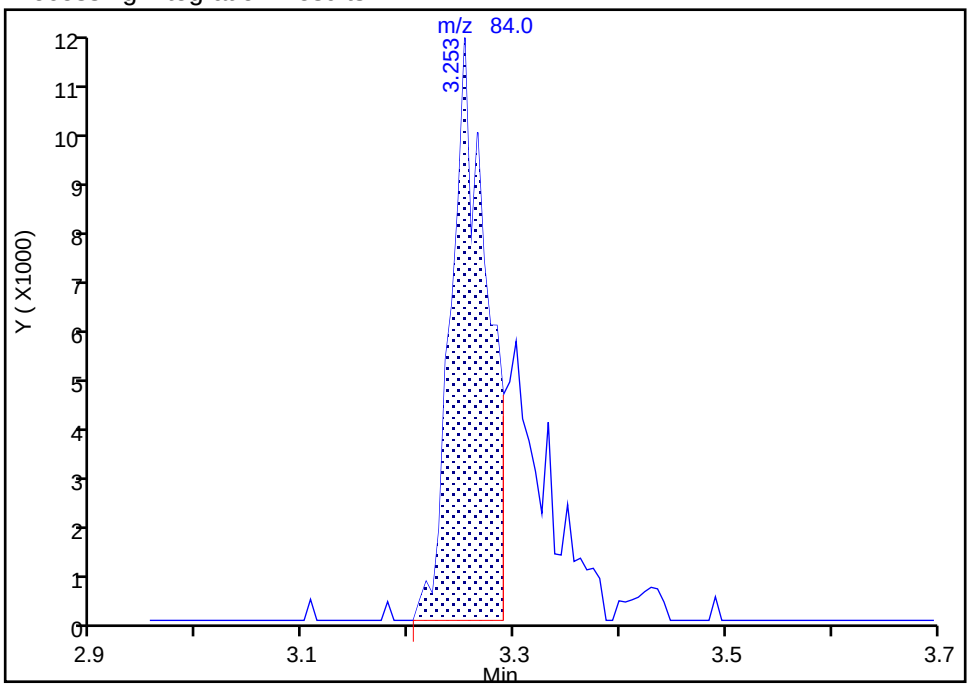
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

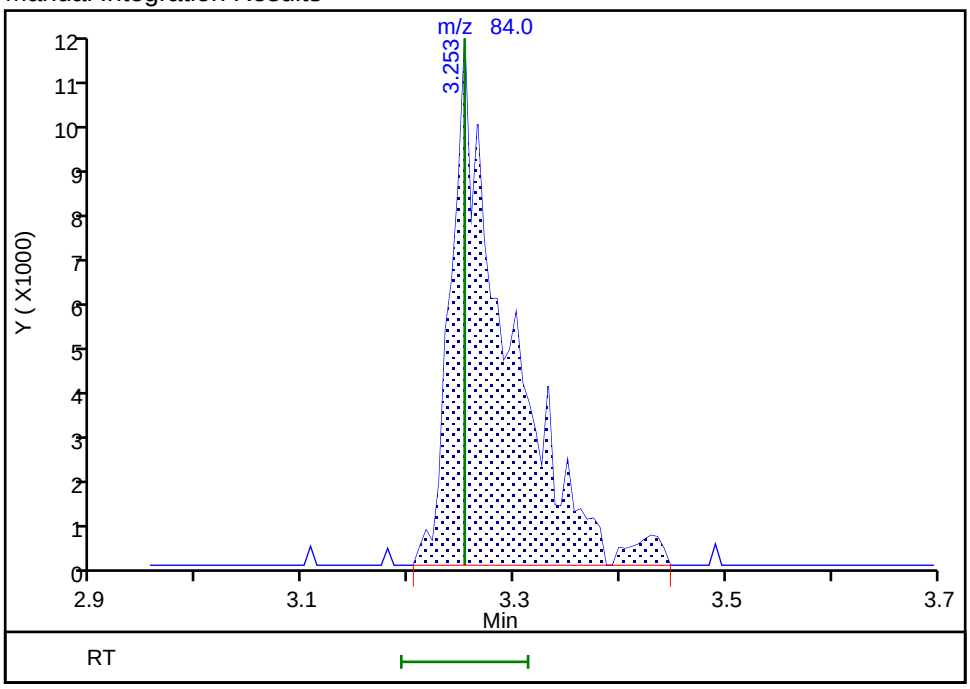
Processing Integration Results

RT: 3.25
Area: 27629
Amount: 1.460418
Amount Units: ug/L



Manual Integration Results

RT: 3.25
Area: 42609
Amount: 2.057003
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:49:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

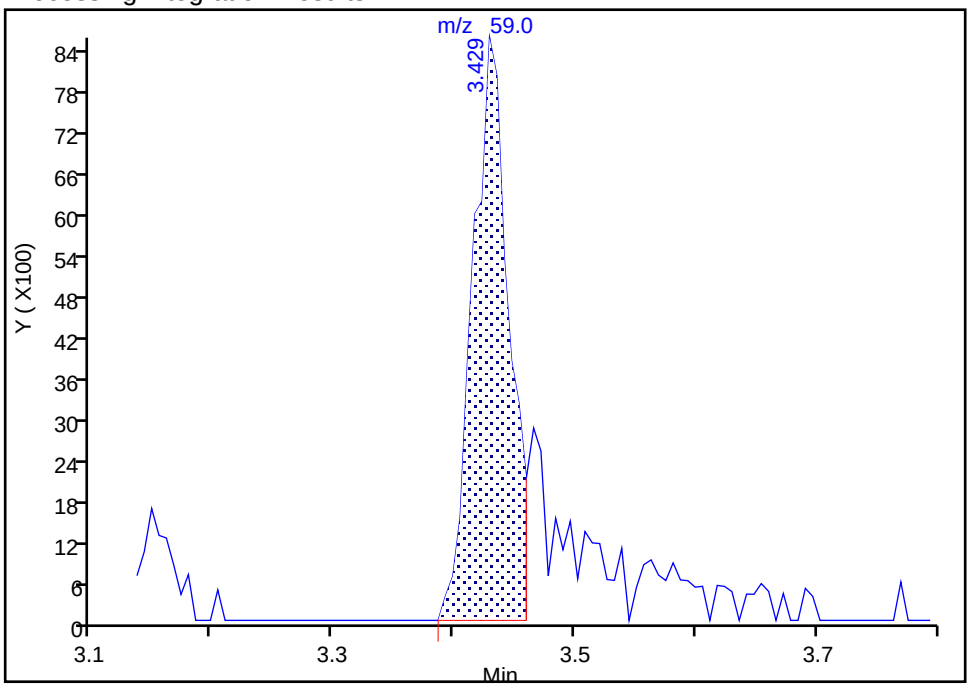
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

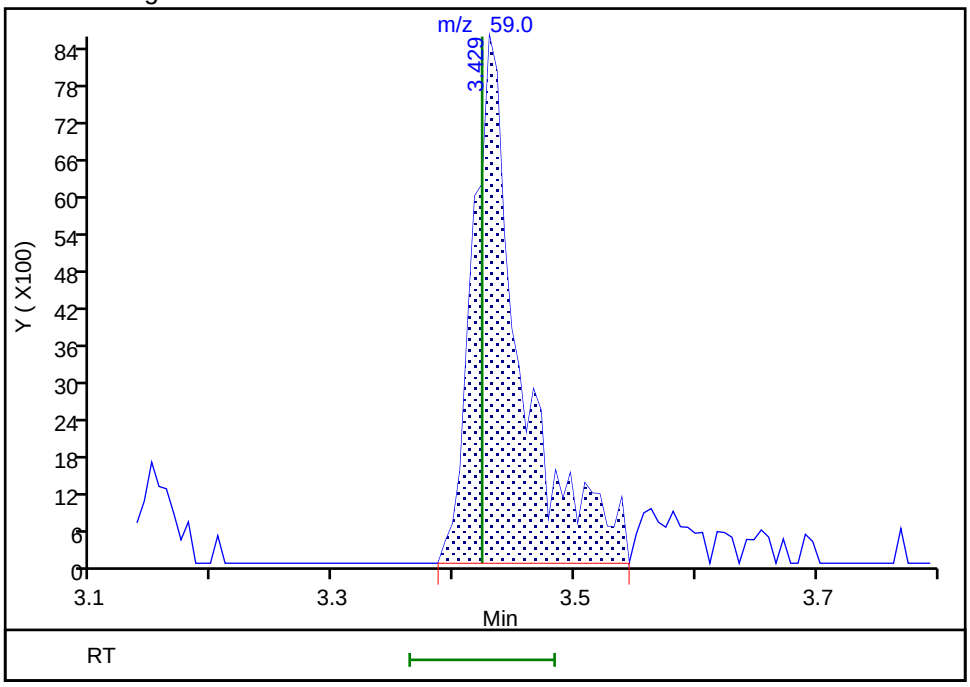
Processing Integration Results

RT: 3.43
Area: 17955
Amount: 16.316635
Amount Units: ug/L



Manual Integration Results

RT: 3.43
Area: 23908
Amount: 18.070445
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:51:44
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

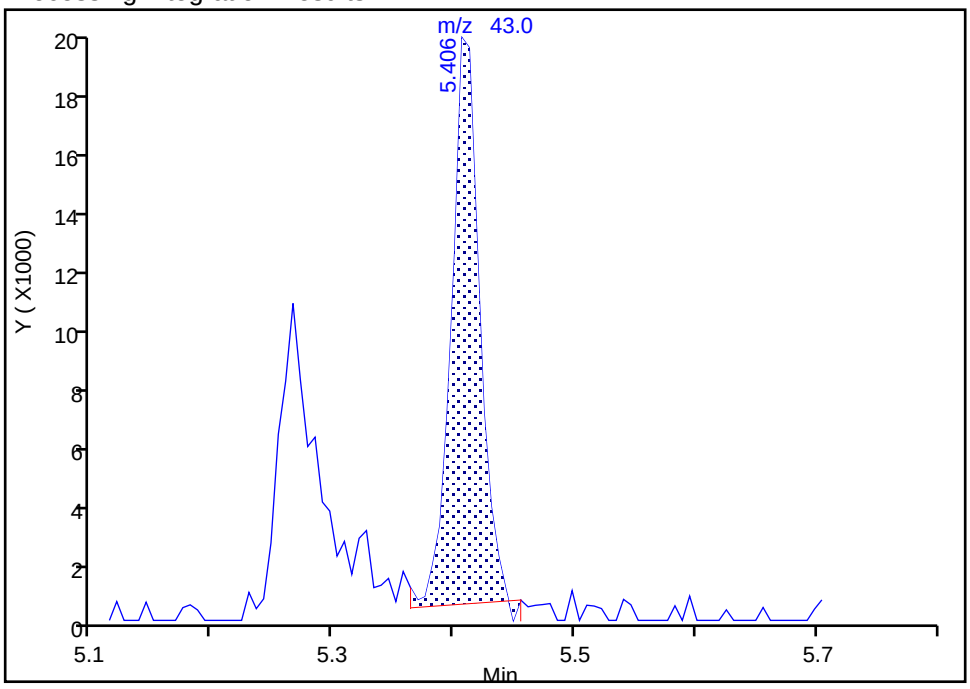
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

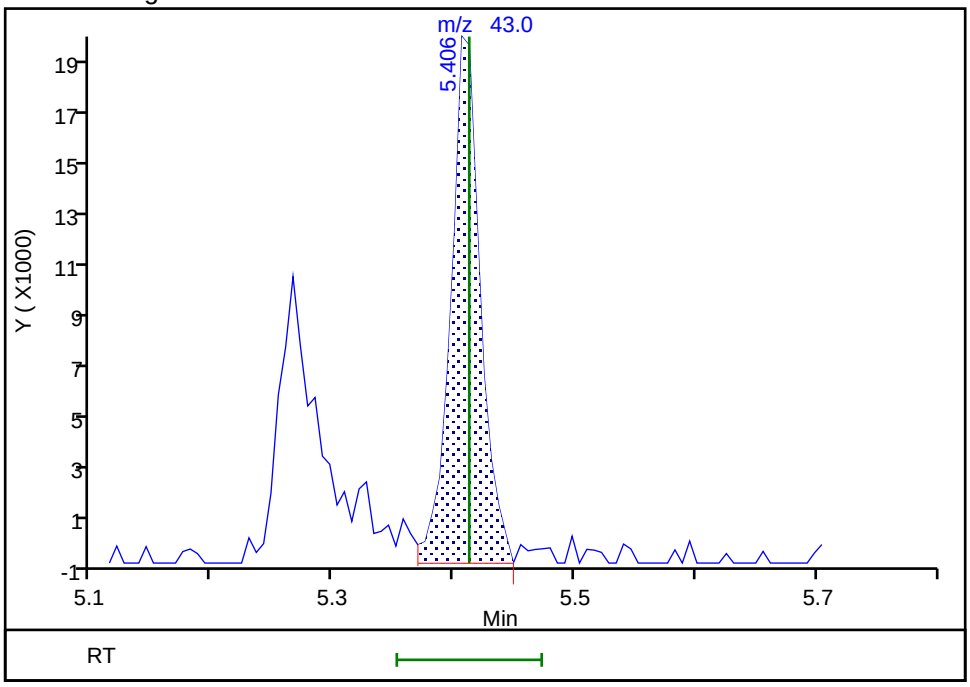
Processing Integration Results

RT: 5.41
Area: 31472
Amount: 1.805730
Amount Units: ug/L



Manual Integration Results

RT: 5.41
Area: 34128
Amount: 1.939647
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:17:57
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

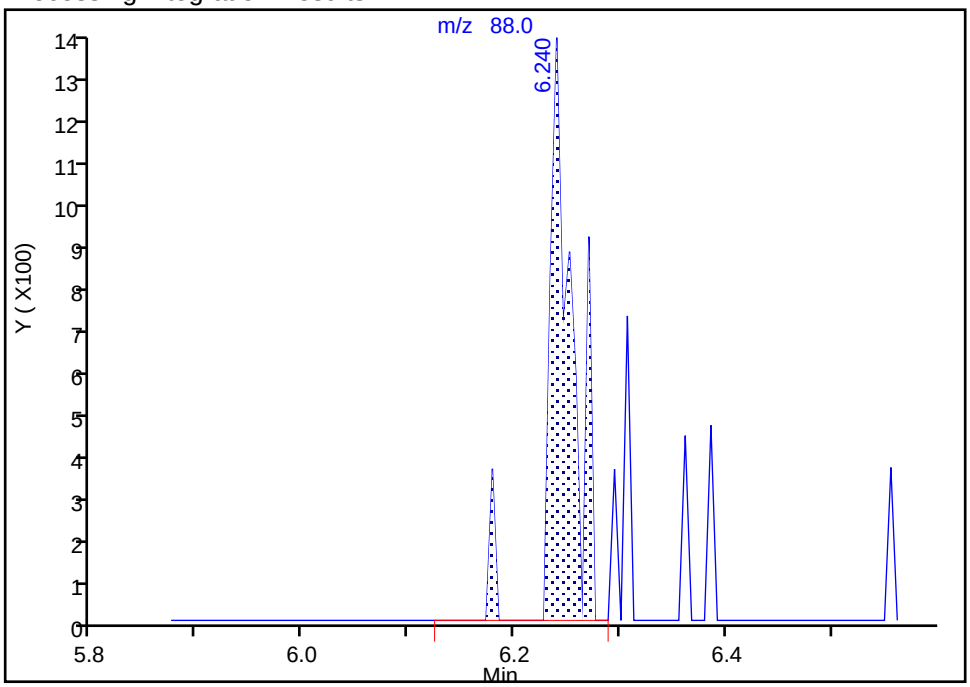
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2508.D
Injection Date: 20-Jun-2018 14:38:30 Instrument ID: HP5973S
Lims ID: IC 2
Client ID:
Operator ID: LH/ZV ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

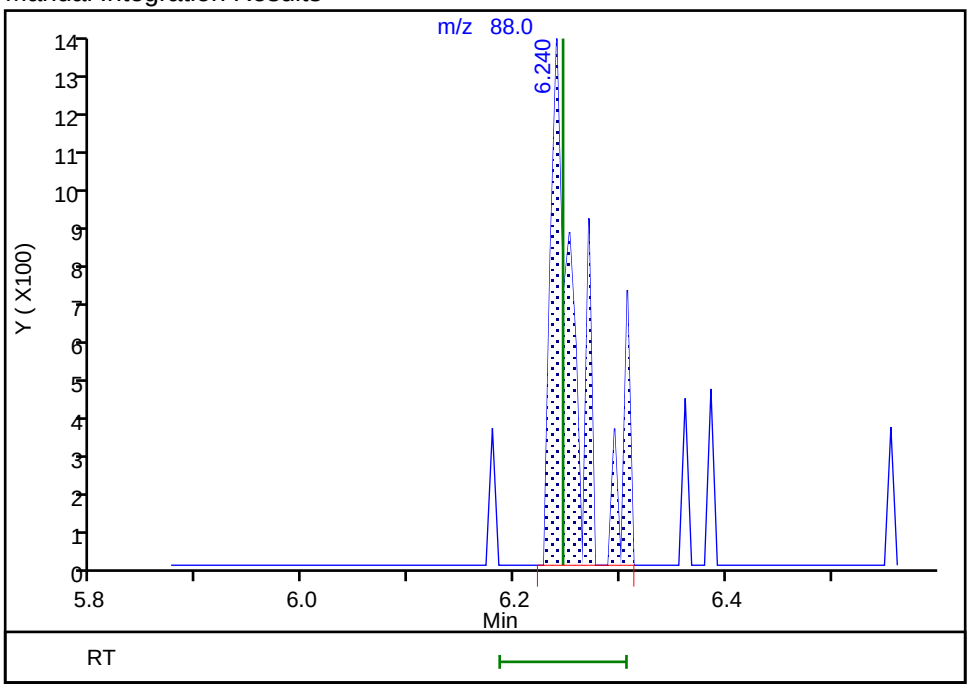
Processing Integration Results

RT: 6.24
Area: 2010
Amount: 26.141337
Amount Units: ug/L



Manual Integration Results

RT: 6.24
Area: 2267
Amount: 38.583938
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:26:20
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 20-Jun-2018 15:01:30 ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0072482-008
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:25:51 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 20:19:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	194919	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	86	401283	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	93	371613	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	62	236175	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	162701	25.0	26.6	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	974777	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	298183	25.0	24.8	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	84	57375	5.00	6.11	
12 Chloromethane	50	1.464	1.464	0.000	98	78570	5.00	5.27	
13 Vinyl chloride	62	1.543	1.549	-0.006	81	72004	5.00	5.43	
151 Butadiene	54	1.574	1.574	0.000	56	74679	5.00	5.40	
14 Bromomethane	94	1.884	1.872	0.012	81	37490	5.00	5.28	
15 Chloroethane	64	1.988	1.969	0.019	70	42938	5.00	5.35	
16 Dichlorofluoromethane	67	2.207	2.194	0.013	79	94040	5.00	5.35	M
17 Trichlorofluoromethane	101	2.200	2.194	0.006	68	74675	5.00	5.94	M
18 Ethyl ether	59	2.492	2.492	0.000	82	59556	5.00	5.33	
20 Acrolein	56	2.687	2.687	0.000	90	50983	25.0	23.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	39	42648	5.00	5.88	M
22 1,1-Dichloroethene	96	2.718	2.730	-0.012	96	49334	5.00	5.73	
23 Acetone	43	2.845	2.851	-0.006	92	94147	25.0	25.1	
25 Iodomethane	142	2.894	2.894	0.000	93	69957	5.00	5.56	
26 Carbon disulfide	76	2.918	2.918	0.000	88	152614	5.00	5.56	
28 3-Chloro-1-propene	41	3.089	3.089	0.001	86	90419	5.00	5.42	
27 Methyl acetate	43	3.143	3.143	0.000	96	103471	10.0	10.5	
30 Methylene Chloride	84	3.247	3.253	-0.006	87	75350	5.00	5.30	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	84	62295	50.0	49.0	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	90	166404	5.00	5.16	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	85	55688	5.00	5.65	
33 Acrylonitrile	53	3.539	3.539	0.000	99	254614	50.0	48.7	
35 Hexane	57	3.654	3.660	-0.006	82	108267	5.00	5.96	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	92	110345	5.00	5.32	
37 Vinyl acetate	43	3.953	3.952	0.001	97	249498	10.0	10.4	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	89	64910	5.00	5.64	
45 cis-1,2-Dichloroethene	96	4.451	4.457	-0.006	75	61673	5.00	5.45	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	92	142709	25.0	24.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	91	30101	5.00	5.56	
49 Tetrahydrofuran	42	4.713	4.713	0.000	84	36094	10.0	9.12	
50 Chloroform	83	4.768	4.774	-0.006	92	98890	5.00	5.46	
51 1,1,1-Trichloroethane	97	4.883	4.877	0.006	88	74012	5.00	5.48	
52 Cyclohexane	56	4.877	4.883	-0.006	89	95397	5.00	5.25	
55 Carbon tetrachloride	117	5.017	5.011	0.006	86	61607	5.00	5.45	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	89	71332	5.00	5.19	
57 Benzene	78	5.236	5.236	0.000	75	223580	5.00	5.41	
53 Isobutyl alcohol	43	5.267	5.266	0.001	92	61251	125.0	114.5	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	70	87871	5.00	5.26	
59 n-Heptane	43	5.413	5.412	0.001	86	95852	5.00	5.67	
62 Trichloroethene	95	5.851	5.850	0.001	93	60191	5.00	5.64	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	95854	5.00	5.90	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	94	65633	5.00	5.26	
67 Dibromomethane	93	6.240	6.234	0.006	86	33662	5.00	5.17	
66 1,4-Dioxane	88	6.240	6.246	-0.006	26	6969	100.0	89.7	M
68 Dichlorobromomethane	83	6.392	6.386	0.006	95	68190	5.00	5.44	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	87	42348	5.00	5.09	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	87	84252	5.00	5.34	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	326171	25.0	25.5	
74 Toluene	92	7.092	7.085	0.007	80	140875	5.00	5.28	
77 trans-1,3-Dichloropropene	75	7.378	7.377	0.001	87	70774	5.00	4.82	
75 Ethyl methacrylate	69	7.414	7.414	0.000	85	74867	5.00	5.20	
79 1,1,2-Trichloroethane	83	7.572	7.566	0.006	91	41694	5.00	5.19	
81 Tetrachloroethene	166	7.621	7.615	0.006	81	58888	5.00	5.23	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	93	81753	5.00	4.82	
80 2-Hexanone	43	7.791	7.791	0.000	79	246316	25.0	26.1	
83 Chlorodibromomethane	129	7.962	7.961	0.001	82	45191	5.00	4.94	
84 Ethylene Dibromide	107	8.071	8.071	0.000	90	52152	5.00	5.15	
87 Chlorobenzene	112	8.540	8.539	0.001	90	153908	5.00	5.27	
88 Ethylbenzene	91	8.631	8.631	0.000	99	260118	5.00	5.41	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	54	46444	5.00	4.91	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	101199	5.00	5.17	
91 o-Xylene	106	9.178	9.178	0.000	98	97848	5.00	5.27	
92 Styrene	104	9.209	9.209	0.000	93	168072	5.00	5.28	
95 Bromoform	173	9.464	9.464	0.000	91	26624	5.00	4.56	
94 Isopropylbenzene	105	9.562	9.561	0.001	94	261022	5.00	5.57	
101 Bromobenzene	156	9.908	9.908	0.000	93	62196	5.00	5.25	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	81	66963	5.00	5.26	
99 N-Propylbenzene	91	9.981	9.987	-0.006	98	304106	5.00	5.60	
100 1,2,3-Trichloropropane	110	10.000	9.999	0.001	67	22292	5.00	5.32	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.012	0.006	65	18263	5.00	4.51	
103 2-Chlorotoluene	126	10.091	10.091	0.000	95	60025	5.00	5.13	
102 1,3,5-Trimethylbenzene	105	10.158	10.164	-0.006	83	214731	5.00	5.28	
105 4-Chlorotoluene	126	10.206	10.200	0.006	93	62670	5.00	5.23	
106 tert-Butylbenzene	134	10.474	10.474	0.000	90	48709	5.00	5.62	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	75	223814	5.00	5.39	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	90	261311	5.00	5.36	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	231080	5.00	5.51	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	70	119848	5.00	5.20	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	75	127844	5.00	5.44	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	208379	5.00	5.51	
116 1,2-Dichlorobenzene	146	11.259	11.265	-0.006	90	123068	5.00	5.43	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	47	11203	5.00	4.54	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	91	80426	5.00	4.99	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	89	39788	5.00	5.16	
121 Naphthalene	128	12.877	12.877	0.000	97	221088	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	79276	5.00	5.33	
S 124 Xylenes, Total	1				0			10.4	
S 126 1,3-Dichloropropene, Total	1				0			10.2	
S 123 Total BTEX	1				0			26.5	
S 125 1,2-Dichloroethene, Total	1				0			11.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added:	5.00	Units: uL	
GAS CORP mix_00287	Amount Added:	5.00	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

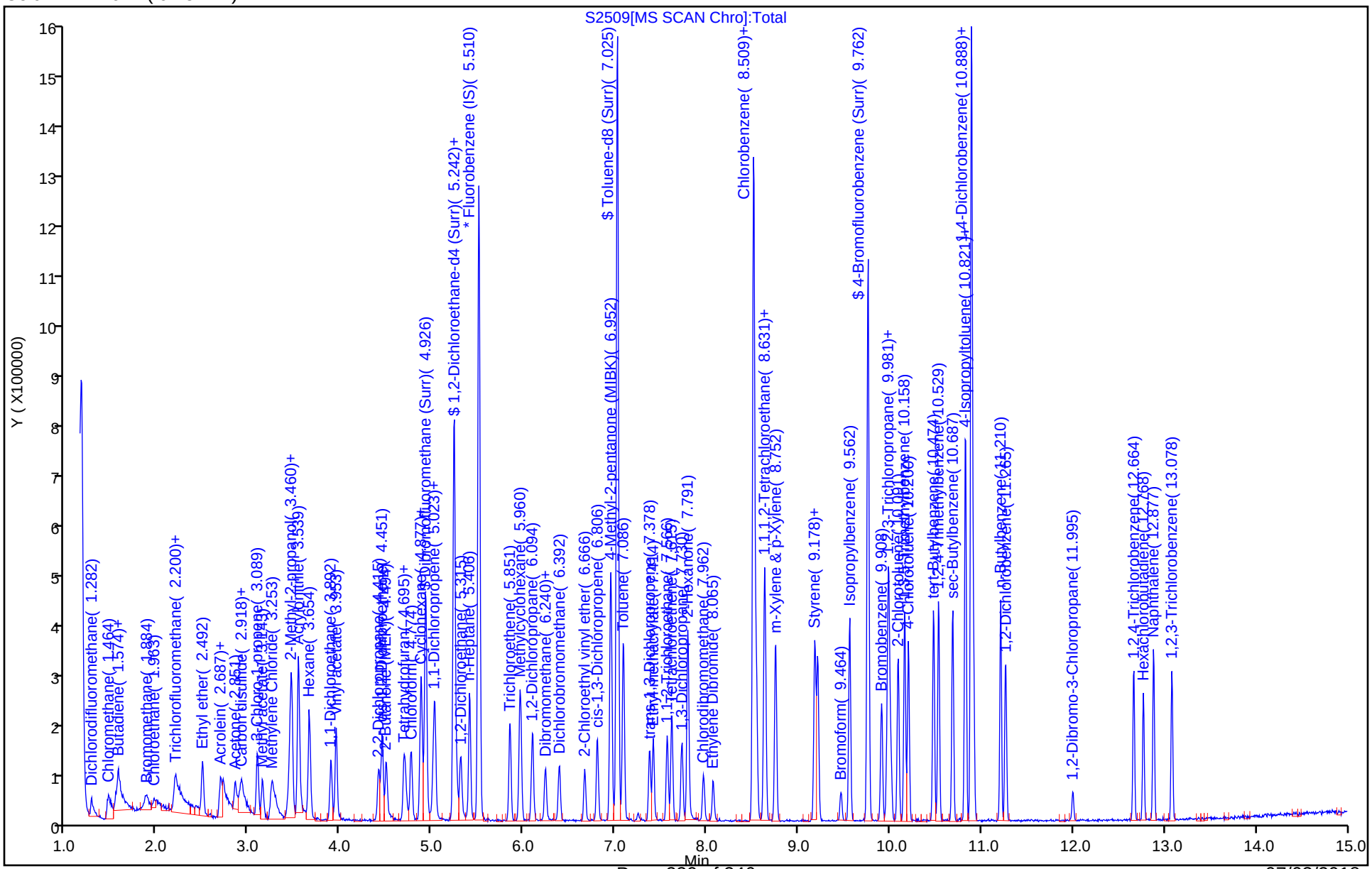
Report Date: 21-Jun-2018 14:25:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D

Injection Date:	20-Jun-2018 15:01:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

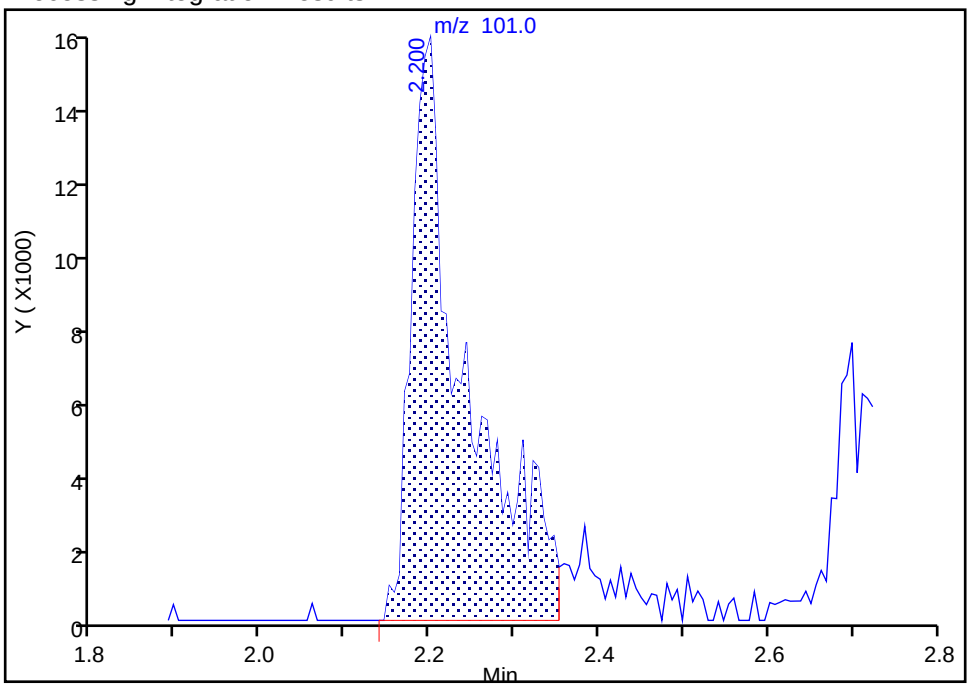
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

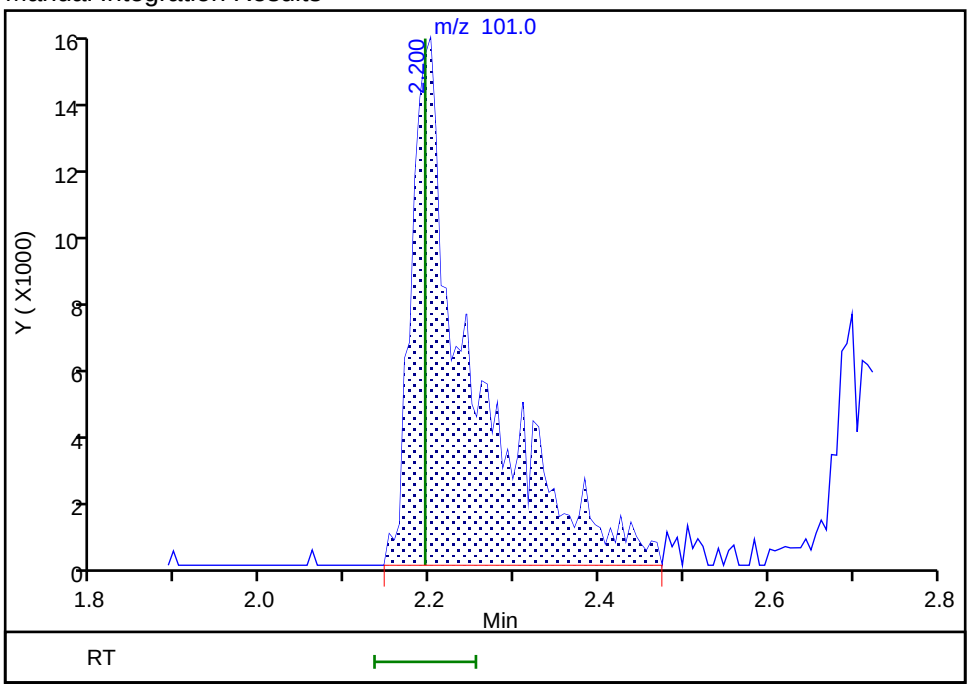
Processing Integration Results

RT: 2.20
Area: 67404
Amount: 5.262149
Amount Units: ug/L



Manual Integration Results

RT: 2.20
Area: 74675
Amount: 5.943261
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:53:53
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

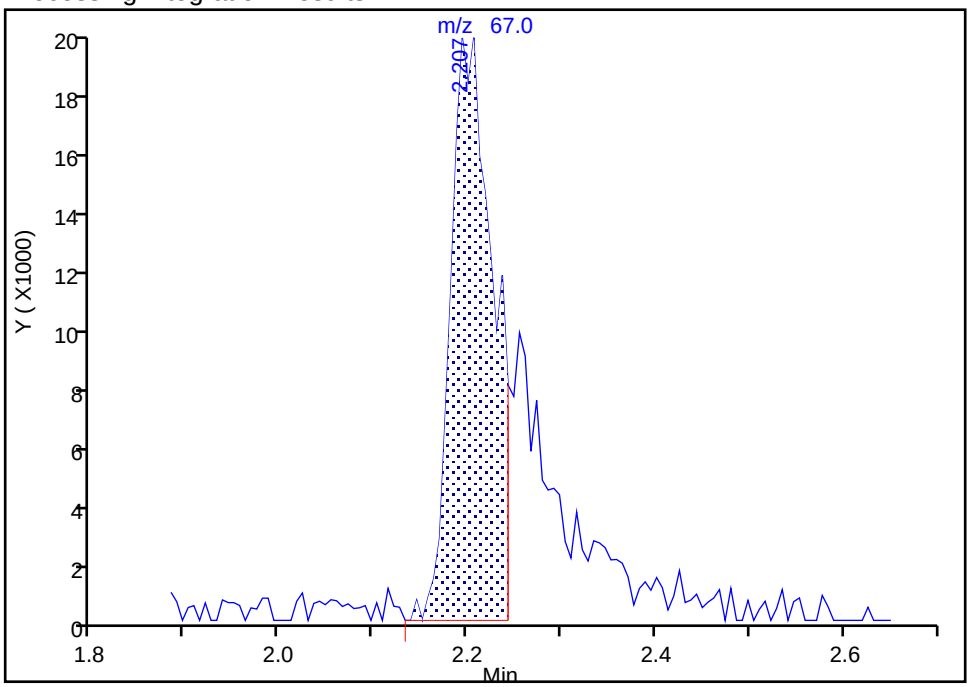
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

16 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

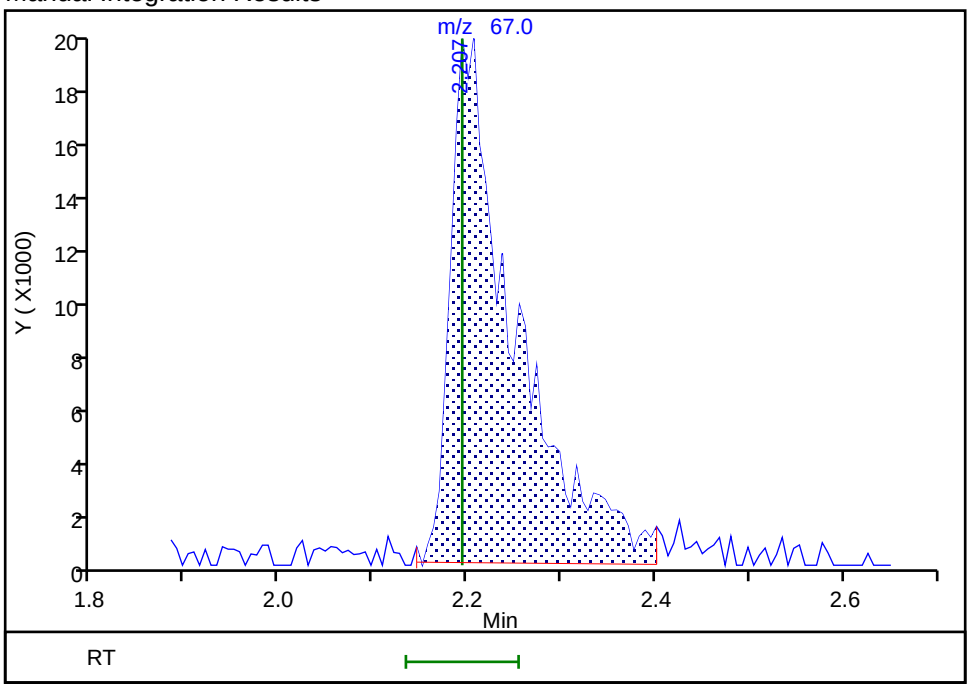
Processing Integration Results

RT: 2.21
Area: 62001
Amount: 3.732710
Amount Units: ug/L



Manual Integration Results

RT: 2.21
Area: 94040
Amount: 5.348202
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 22:53:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

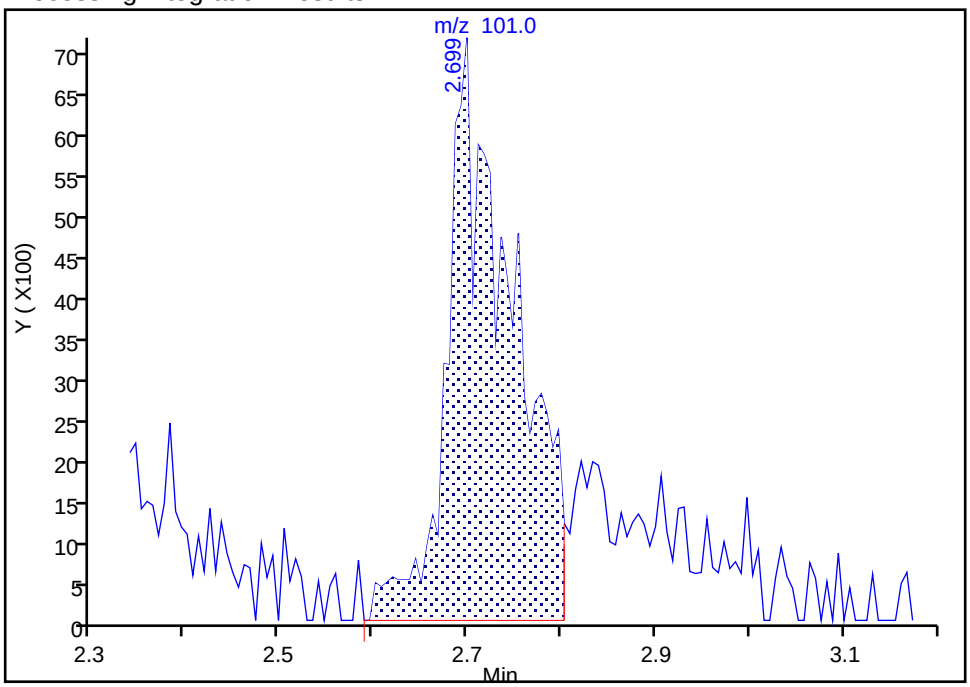
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

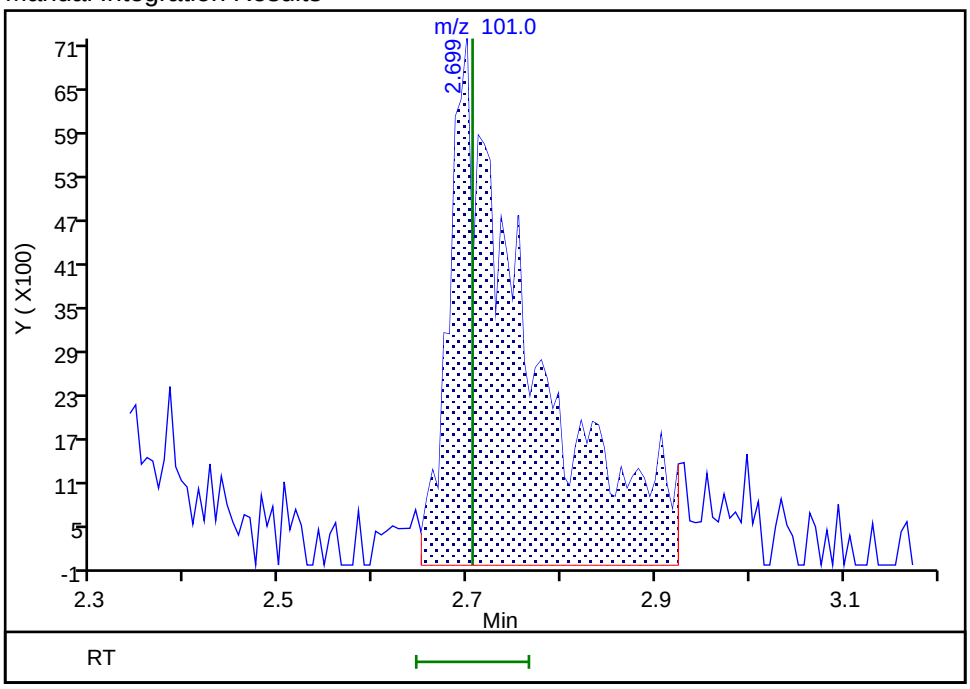
Processing Integration Results

RT: 2.70
Area: 34329
Amount: 5.577335
Amount Units: ug/L



Manual Integration Results

RT: 2.70
Area: 42648
Amount: 5.877613
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:20:47
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

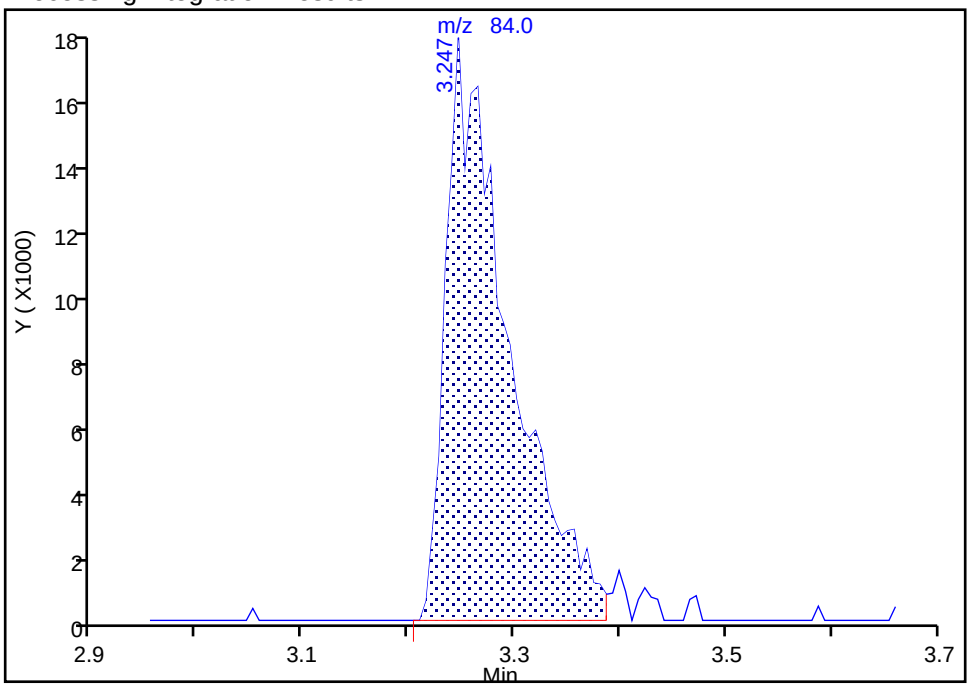
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

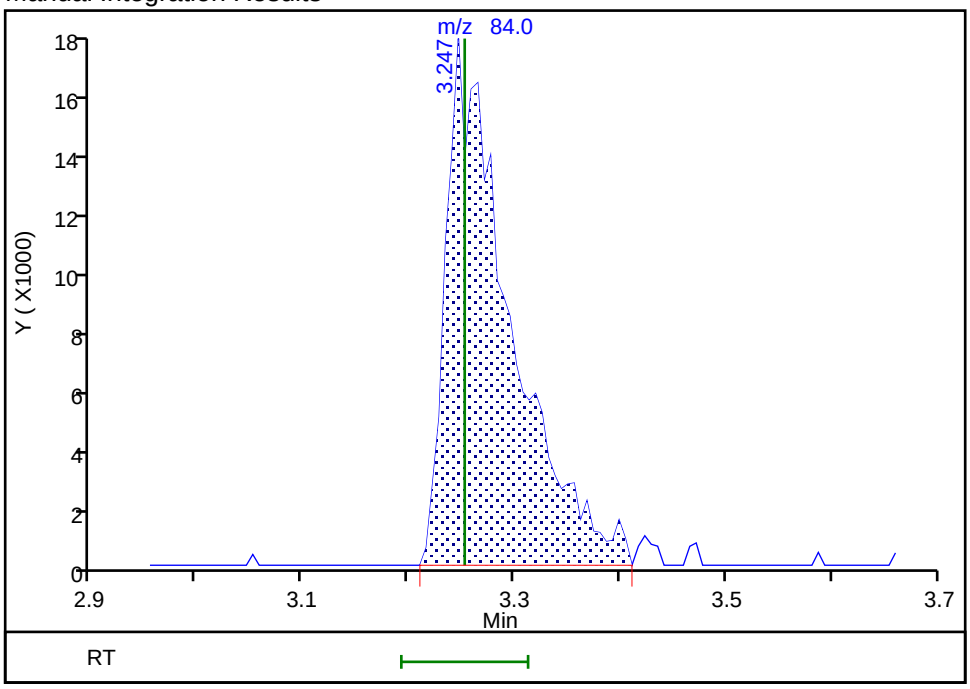
Processing Integration Results

RT: 3.25
Area: 74156
Amount: 5.210539
Amount Units: ug/L



Manual Integration Results

RT: 3.25
Area: 75350
Amount: 5.299668
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:43:48
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

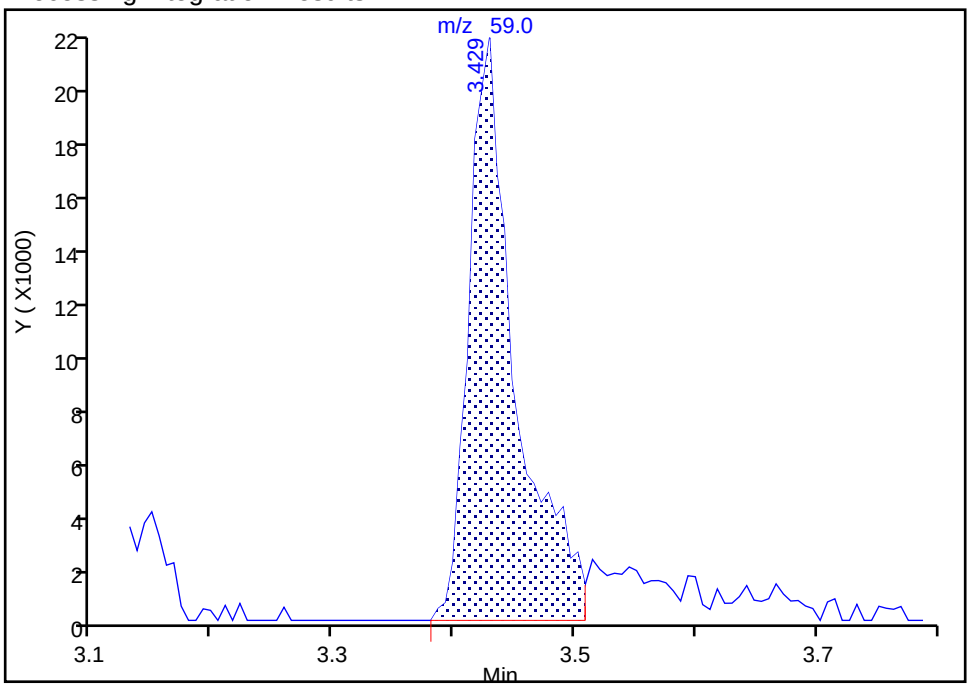
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

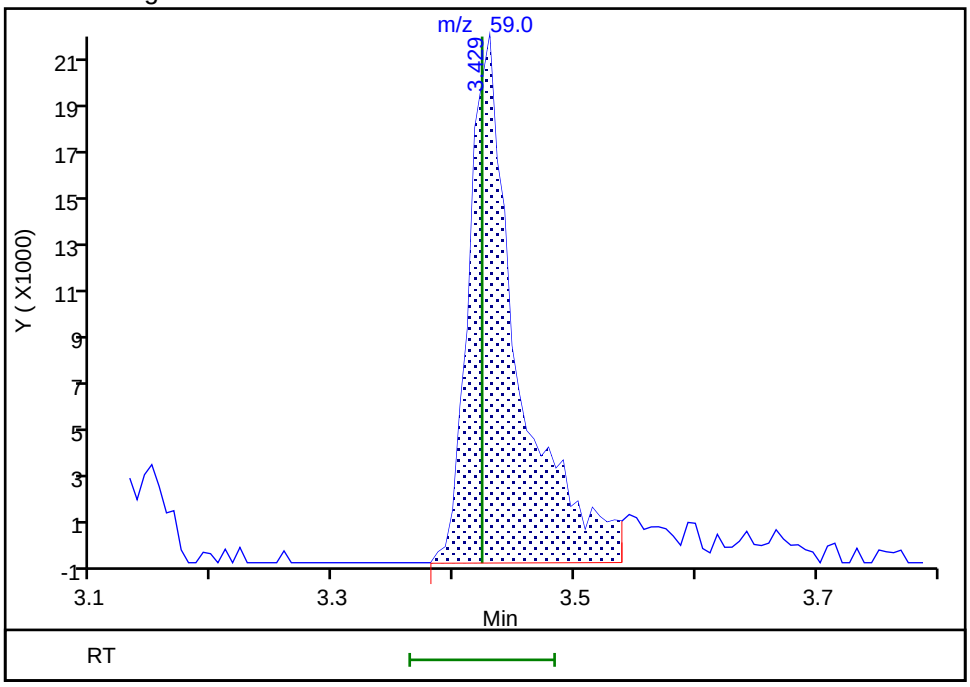
Processing Integration Results

RT: 3.43
Area: 58800
Amount: 52.791577
Amount Units: ug/L



Manual Integration Results

RT: 3.43
Area: 62295
Amount: 49.026488
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:51:26
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

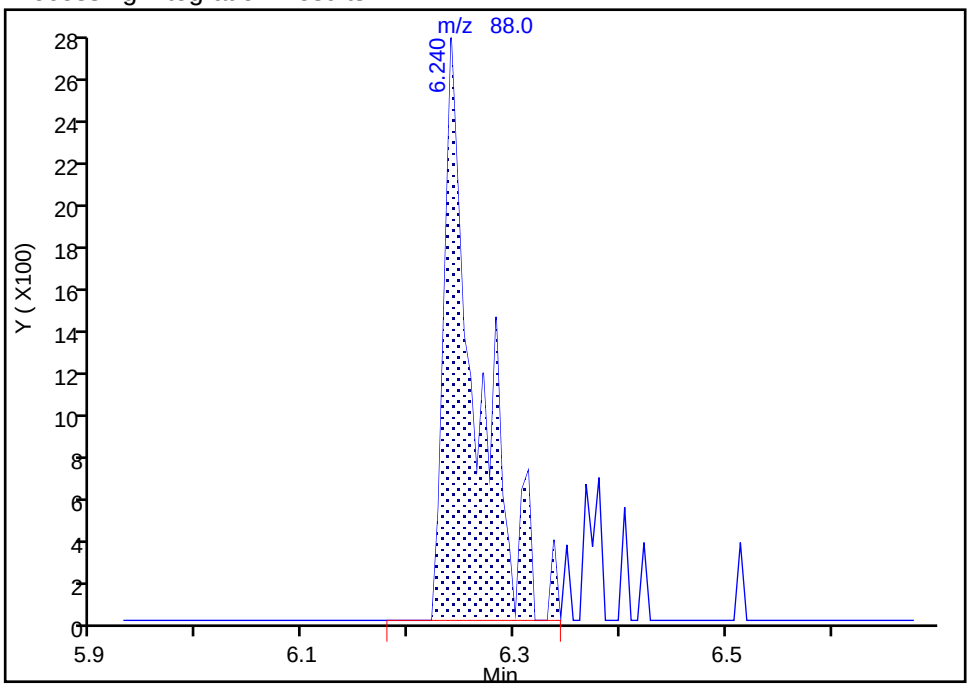
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2509.D
Injection Date: 20-Jun-2018 15:01:30 Instrument ID: HP5973S
Lims ID: IC 3
Client ID:
Operator ID: LH/ZV ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

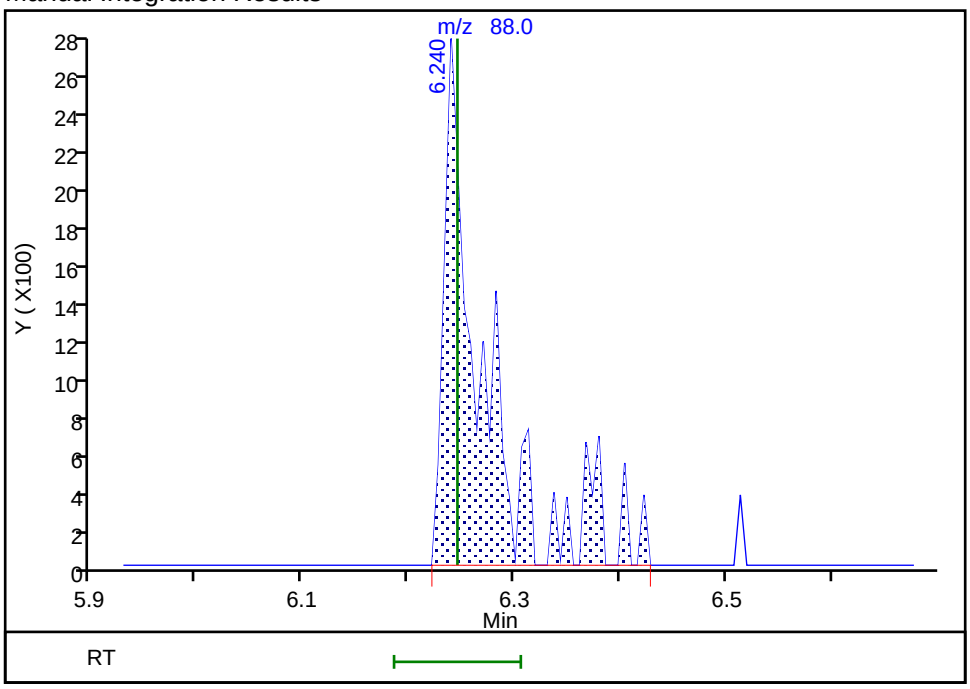
Processing Integration Results

RT: 6.24
Area: 5894
Amount: 69.560976
Amount Units: ug/L



Manual Integration Results

RT: 6.24
Area: 6969
Amount: 89.712458
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:21:46
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jun-2018 15:24:30 ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0072482-009
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:25:56 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 19:35:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	204294	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.515	8.509	0.006	86	404541	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	96	369559	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	237971	25.0	24.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	153221	25.0	23.9	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	981631	25.0	24.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	292377	25.0	24.2	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	95	100661	10.0	10.2	
12 Chloromethane	50	1.470	1.464	0.006	88	158120	10.0	10.1	
13 Vinyl chloride	62	1.549	1.549	0.000	95	135746	10.0	9.77	
151 Butadiene	54	1.580	1.574	0.006	84	141422	10.0	9.76	
14 Bromomethane	94	1.872	1.872	0.000	79	70373	10.0	9.45	
15 Chloroethane	64	1.975	1.969	0.006	82	79988	10.0	9.51	
17 Trichlorofluoromethane	101	2.206	2.194	0.012	72	122840	10.0	9.33	
16 Dichlorofluoromethane	67	2.200	2.194	0.006	94	161069	10.0	8.74	
18 Ethyl ether	59	2.498	2.492	0.006	85	119421	10.0	10.2	
20 Acrolein	56	2.687	2.687	0.000	89	106044	50.0	47.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.711	2.705	0.006	54	83709	10.0	10.7	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	90	96639	10.0	10.7	M
23 Acetone	43	2.851	2.851	0.000	97	172269	50.0	43.8	
25 Iodomethane	142	2.888	2.894	-0.006	96	139498	10.0	10.6	
26 Carbon disulfide	76	2.918	2.918	0.000	96	285284	10.0	9.92	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	86	155269	10.0	8.87	
27 Methyl acetate	43	3.149	3.143	0.006	95	190812	20.0	18.5	M
30 Methylene Chloride	84	3.253	3.253	0.000	94	127431	10.0	9.65	M
31 2-Methyl-2-propanol	59	3.429	3.423	0.006	92	137981	100.0	103.6	M
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	330882	10.0	9.78	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	82	105184	10.0	10.2	
33 Acrylonitrile	53	3.539	3.539	0.000	100	554059	100.0	101.0	
35 Hexane	57	3.660	3.660	0.000	84	187621	10.0	9.85	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.892	0.006	97	221389	10.0	10.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	522220	20.0	20.8	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	117878	10.0	9.78	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	79	125542	10.0	10.6	
43 2-Butanone (MEK)	43	4.500	4.494	0.006	94	291158	50.0	48.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	94	56519	10.0	9.97	
49 Tetrahydrofuran	42	4.713	4.713	0.000	85	78819	20.0	19.0	
50 Chloroform	83	4.774	4.774	0.000	93	185827	10.0	9.79	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	88	136975	10.0	9.68	
52 Cyclohexane	56	4.877	4.883	-0.006	89	192312	10.0	10.1	M
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	116898	10.0	9.86	
54 1,1-Dichloropropene	75	5.035	5.029	0.006	95	138232	10.0	9.59	
57 Benzene	78	5.242	5.236	0.006	92	434302	10.0	10.0	
53 Isobutyl alcohol	43	5.272	5.266	0.006	93	139911	250.0	249.6	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	76	175124	10.0	10.0	
59 n-Heptane	43	5.412	5.412	0.000	89	170684	10.0	9.64	
62 Trichloroethene	95	5.850	5.850	0.000	95	111214	10.0	9.95	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	172282	10.0	10.1	
65 1,2-Dichloropropane	63	6.100	6.094	0.006	96	133728	10.0	10.2	
67 Dibromomethane	93	6.234	6.234	0.000	92	73081	10.0	10.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	11	18780	200.0	217.6	M
68 Dichlorobromomethane	83	6.386	6.386	0.000	96	133887	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	86	88719	10.0	10.2	
72 cis-1,3-Dichloropropene	75	6.799	6.806	-0.007	88	174306	10.0	10.5	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	670794	50.0	51.9	
74 Toluene	92	7.091	7.085	0.006	88	273964	10.0	10.2	
77 trans-1,3-Dichloropropene	75	7.371	7.377	-0.006	96	157325	10.0	10.6	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	153587	10.0	10.6	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	90	81284	10.0	10.0	
81 Tetrachloroethene	166	7.621	7.615	0.006	75	114249	10.0	10.1	
82 1,3-Dichloropropane	76	7.724	7.730	-0.006	92	178659	10.0	10.5	
80 2-Hexanone	43	7.791	7.791	0.000	91	493778	50.0	51.9	
83 Chlorodibromomethane	129	7.961	7.961	0.000	86	97396	10.0	10.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	104411	10.0	10.2	
87 Chlorobenzene	112	8.539	8.539	0.000	92	300247	10.0	10.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	505219	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	56	101180	10.0	10.6	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	193403	10.0	9.81	
91 o-Xylene	106	9.178	9.178	0.000	97	196385	10.0	10.5	
92 Styrene	104	9.215	9.209	0.006	93	331254	10.0	10.3	
95 Bromoform	173	9.464	9.464	0.000	93	60675	10.0	10.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	487020	10.0	10.5	
101 Bromobenzene	156	9.908	9.908	0.000	95	123511	10.0	10.5	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	73	132068	10.0	10.4	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	572209	10.0	10.6	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	44716	10.0	10.7	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	75	40802	10.0	9.41	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	115644	10.0	9.95	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	95	432135	10.0	10.7	
105 4-Chlorotoluene	126	10.200	10.200	0.000	81	123635	10.0	10.4	
106 tert-Butylbenzene	134	10.474	10.474	0.000	91	90461	10.0	10.5	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	54	441006	10.0	10.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	506385	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	236904	10.0	10.3	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	450095	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	242101	10.0	10.4	
115 n-Butylbenzene	91	11.210	11.210	0.000	96	394458	10.0	10.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	241629	10.0	10.7	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	69	24435	10.0	9.95	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	93	165528	10.0	10.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	92	77538	10.0	10.1	
121 Naphthalene	128	12.877	12.877	0.000	97	468207	10.0	10.7	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	161462	10.0	10.9	
S 123 Total BTEX	1				0			50.9	
S 125 1,2-Dichloroethene, Total	1				0			20.8	
S 124 Xylenes, Total	1				0			20.3	
S 126 1,3-Dichloropropene, Total	1				0			21.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added:	5.00	Units: uL	
GAS CORP mix_00287	Amount Added:	5.00	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

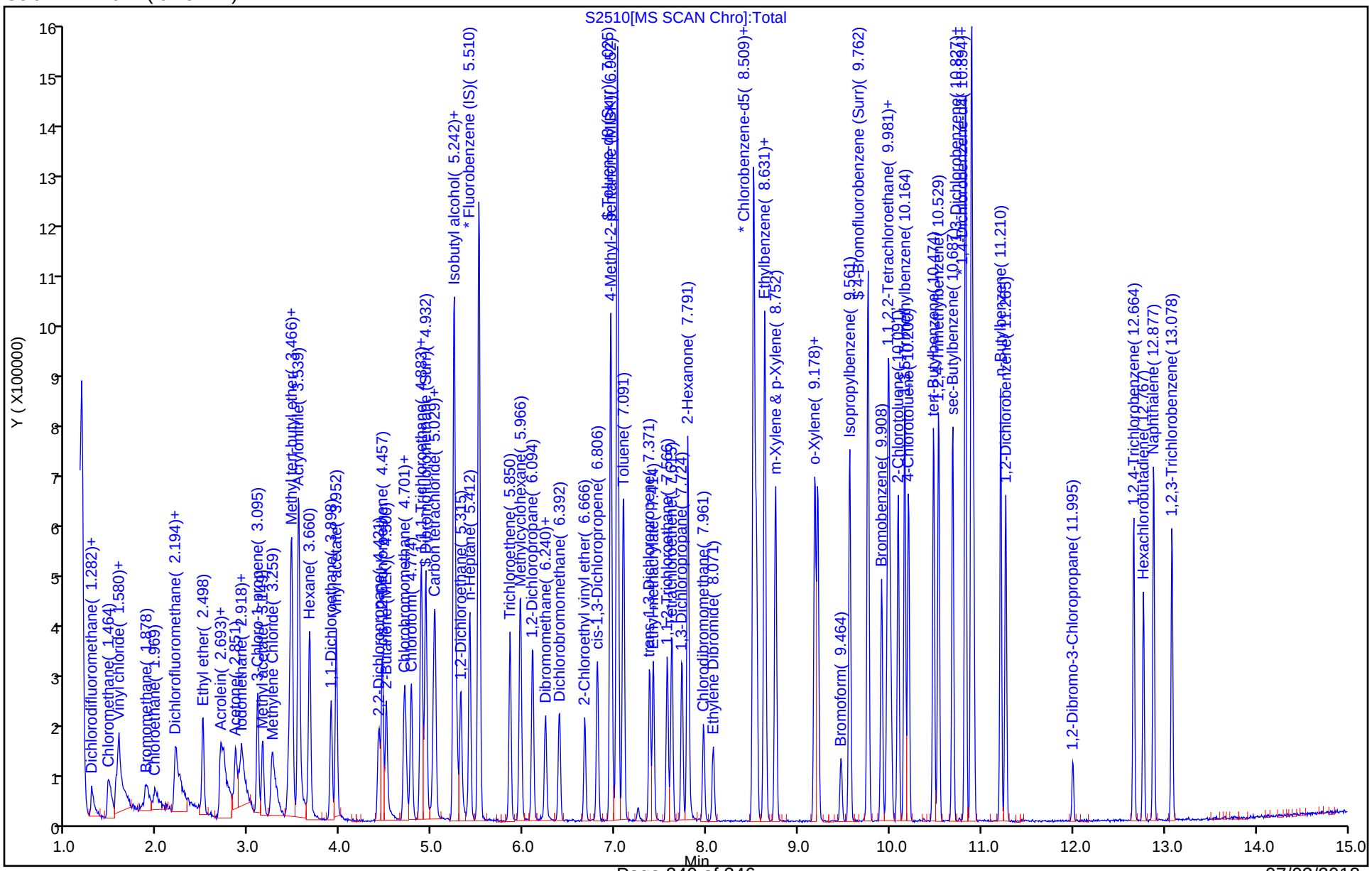
Report Date: 21-Jun-2018 14:25:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D

Injection Date:	20-Jun-2018 15:24:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

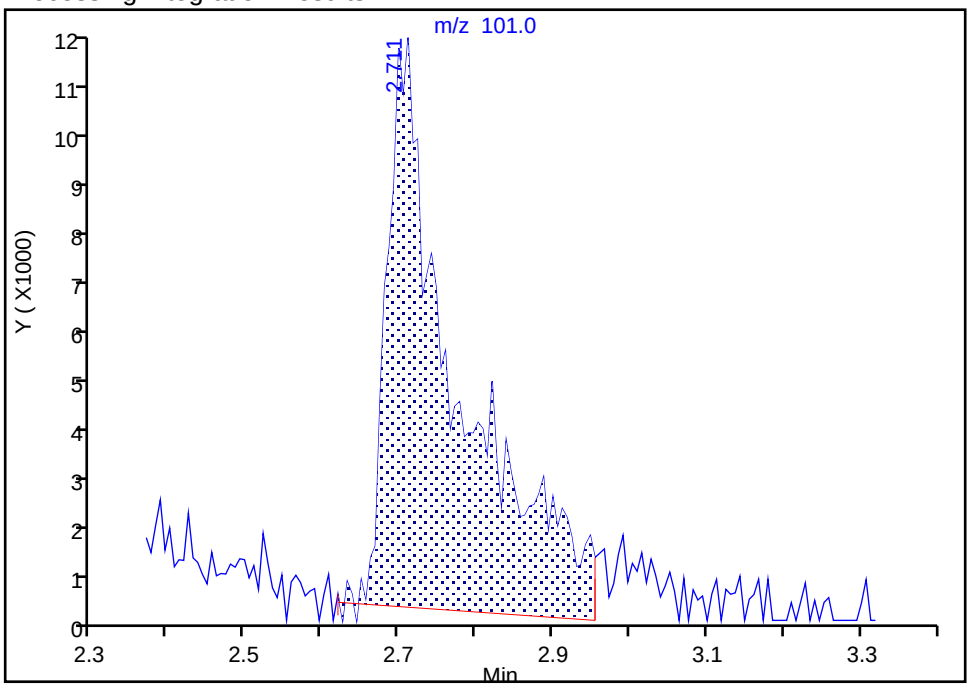
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

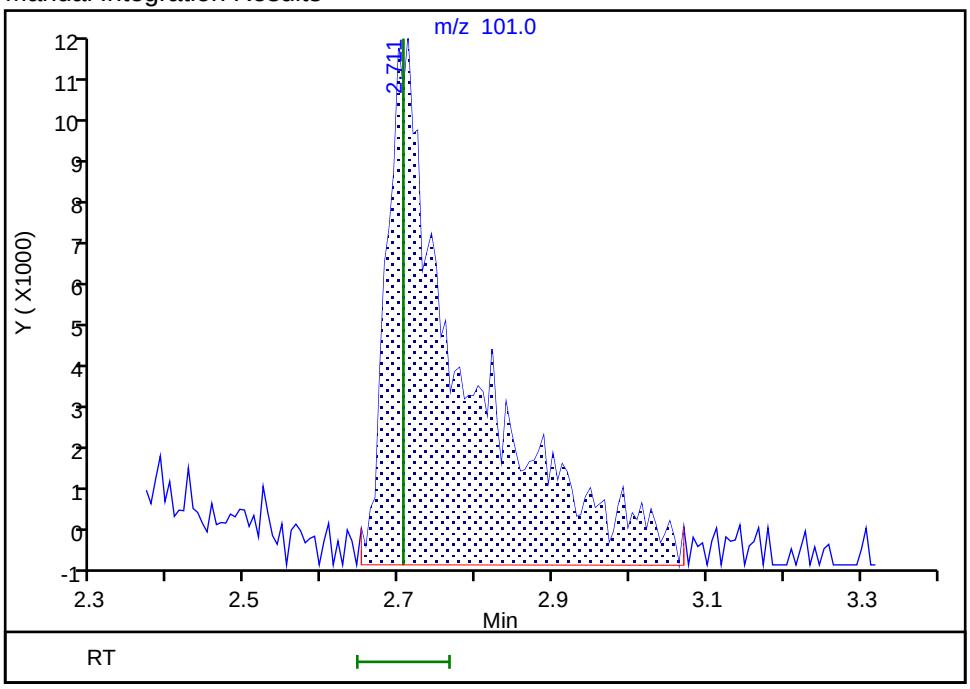
Processing Integration Results

RT: 2.71
Area: 74021
Amount: 9.501471
Amount Units: ug/L



Manual Integration Results

RT: 2.71
Area: 83709
Amount: 10.683331
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:22:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

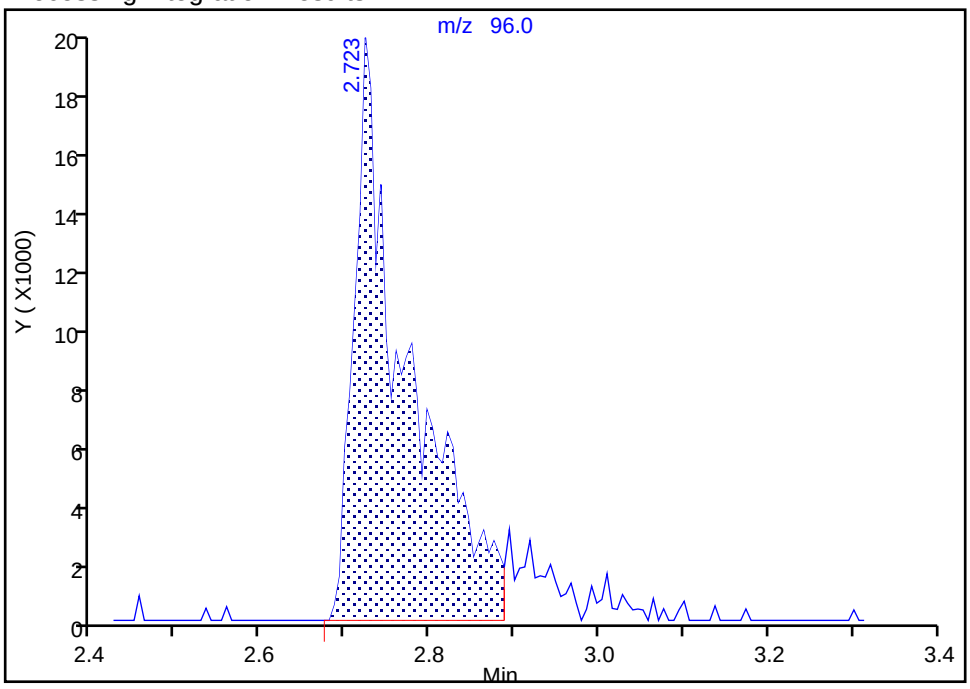
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

22 1,1-Dichloroethene, CAS: 75-35-4

Signal: 1

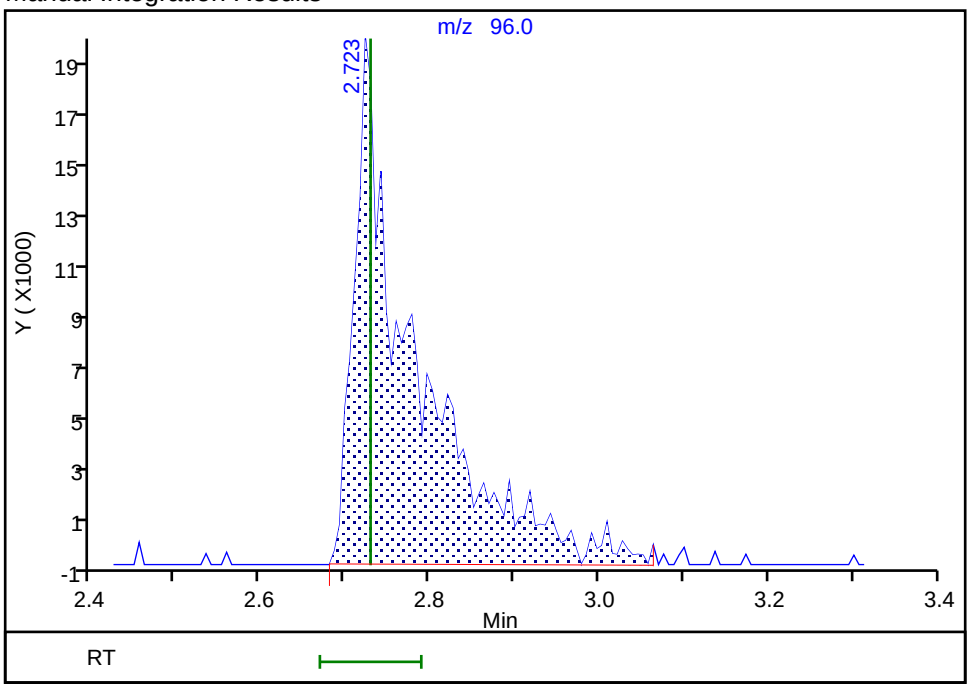
Processing Integration Results

RT: 2.72
Area: 85549
Amount: 10.295861
Amount Units: ug/L



Manual Integration Results

RT: 2.72
Area: 96639
Amount: 10.709001
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 23:19:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

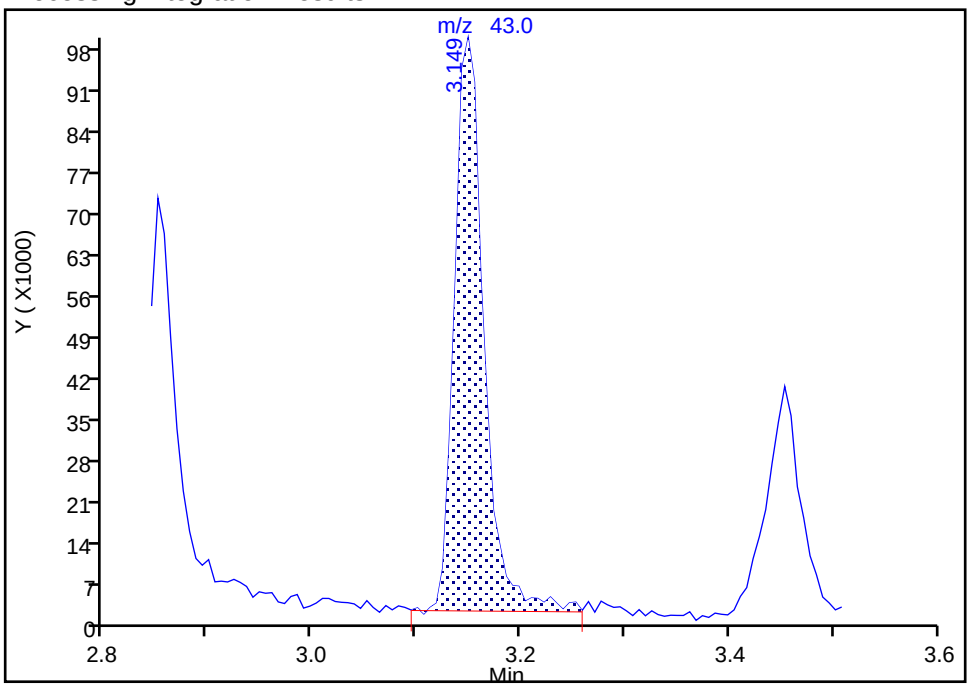
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

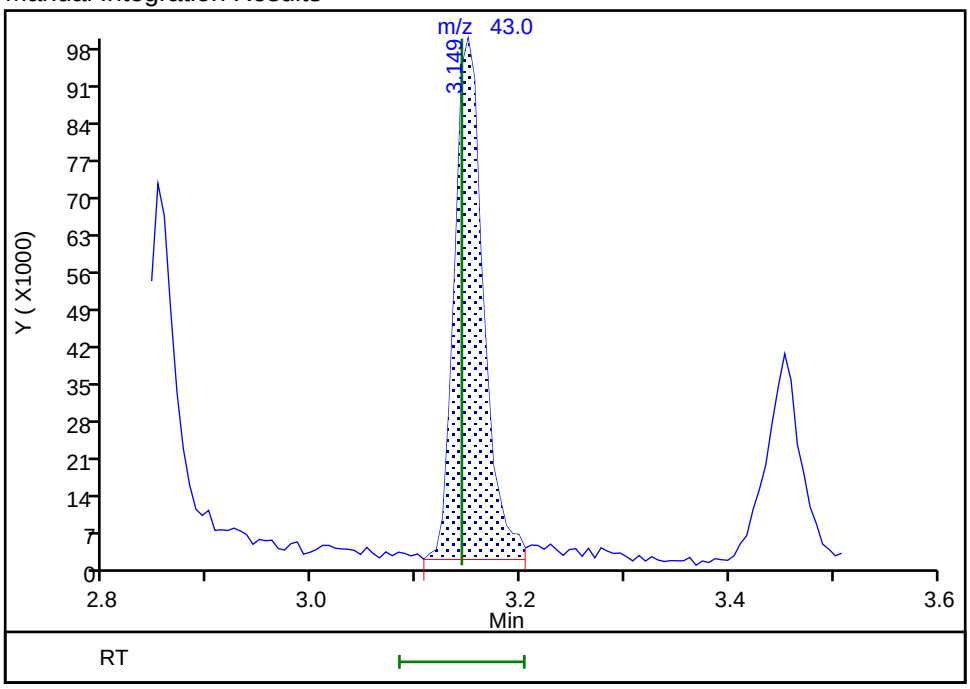
Processing Integration Results

RT: 3.15
Area: 192902
Amount: 18.670750
Amount Units: ug/L



Manual Integration Results

RT: 3.15
Area: 190812
Amount: 18.491841
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:29:54
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

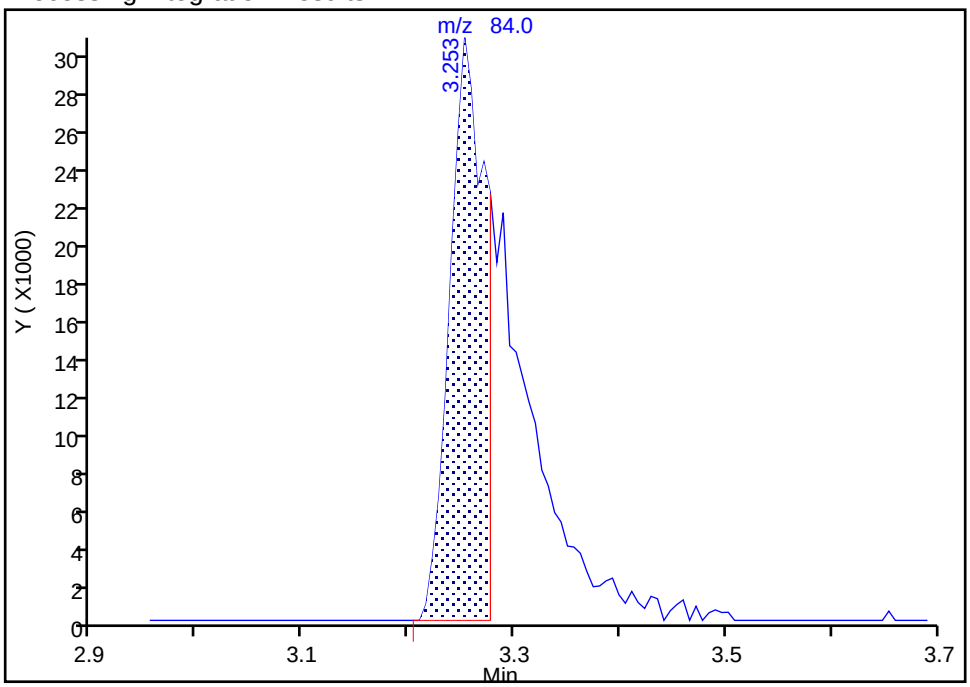
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Signal: 1

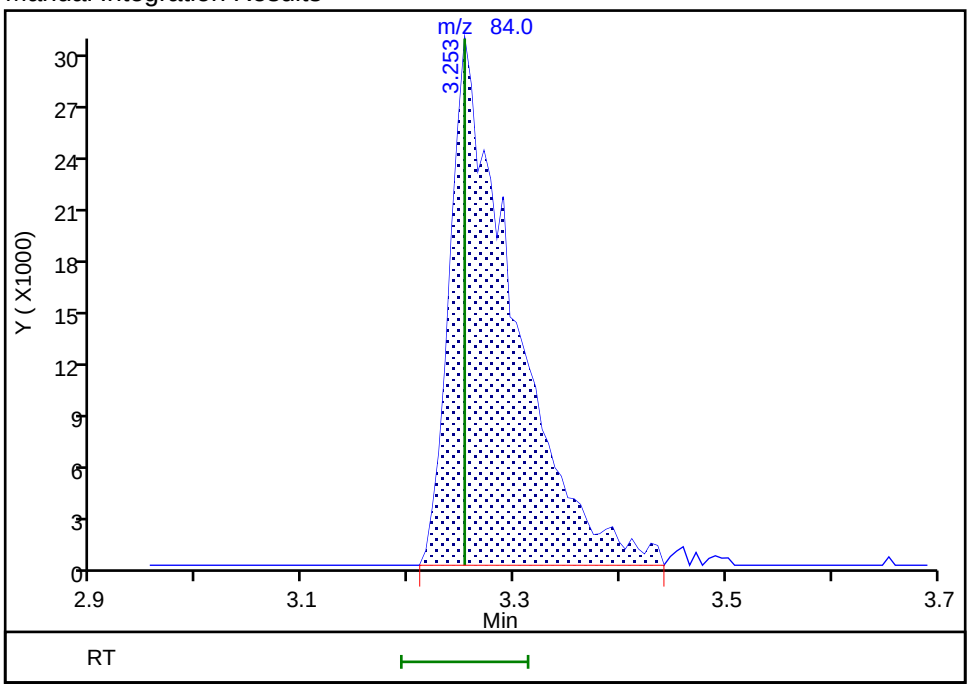
Processing Integration Results

RT: 3.25
Area: 70355
Amount: 3.535941
Amount Units: ug/L



Manual Integration Results

RT: 3.25
Area: 127431
Amount: 9.654141
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:43:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo

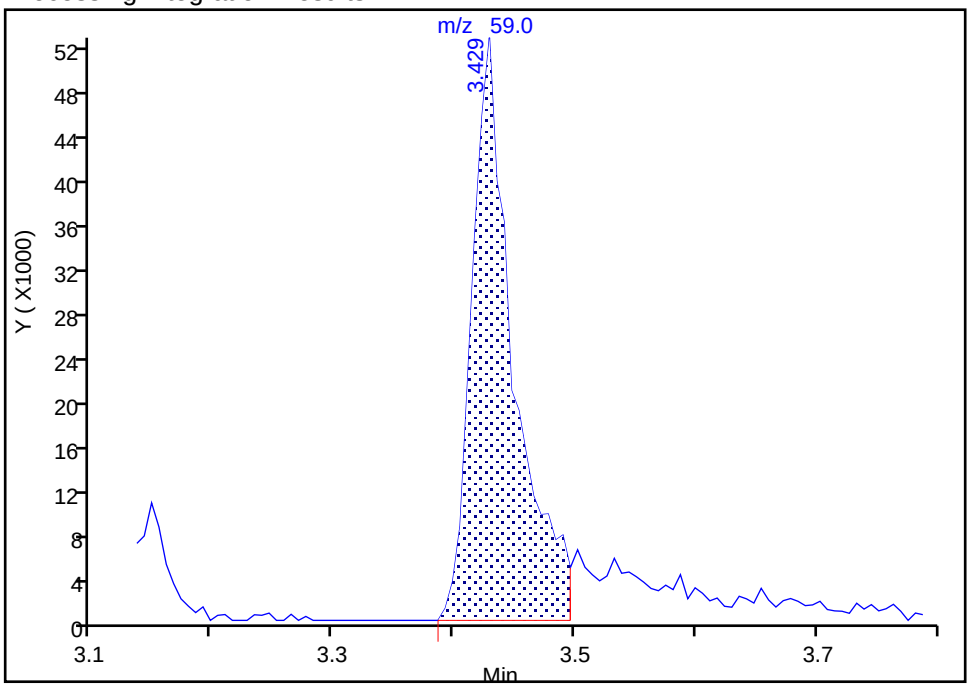
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

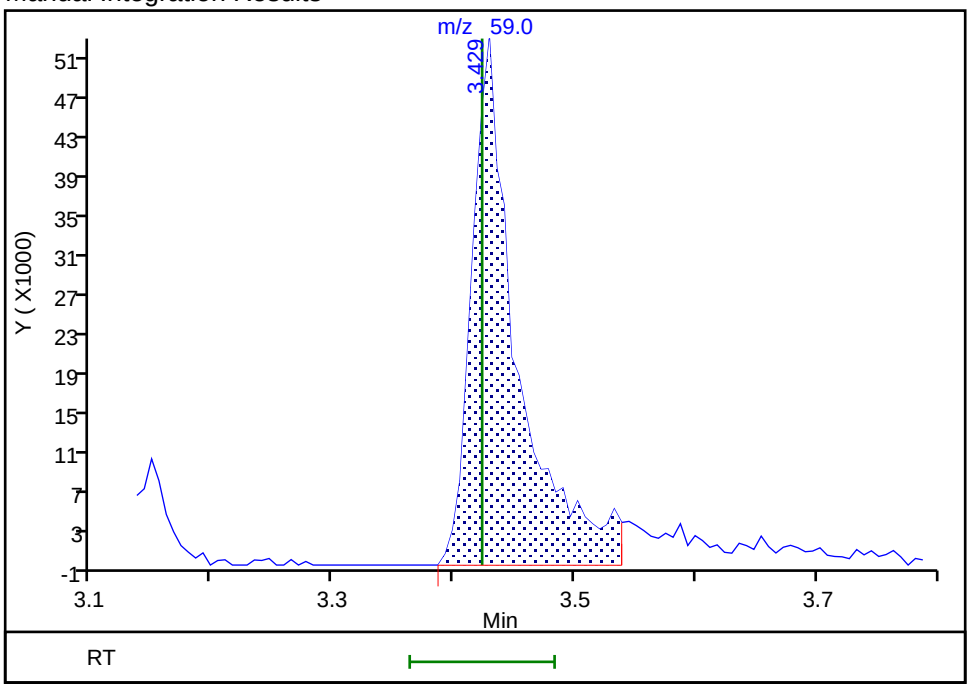
Processing Integration Results

RT: 3.43
Area: 125953
Amount: 105.2771
Amount Units: ug/L



Manual Integration Results

RT: 3.43
Area: 137981
Amount: 103.6085
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:50:37
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

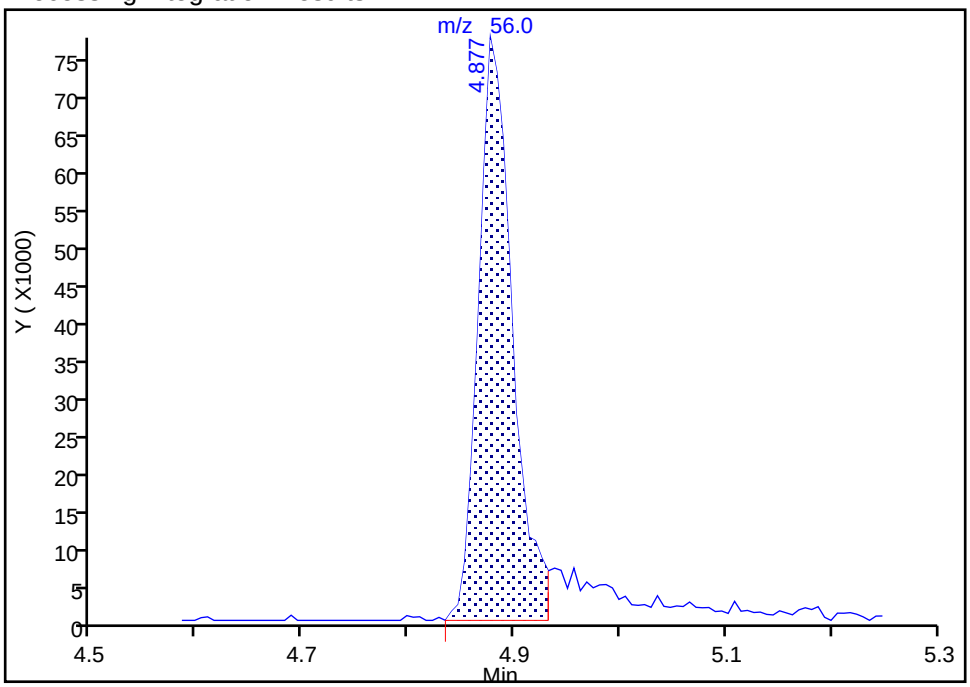
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

52 Cyclohexane, CAS: 110-82-7

Signal: 1

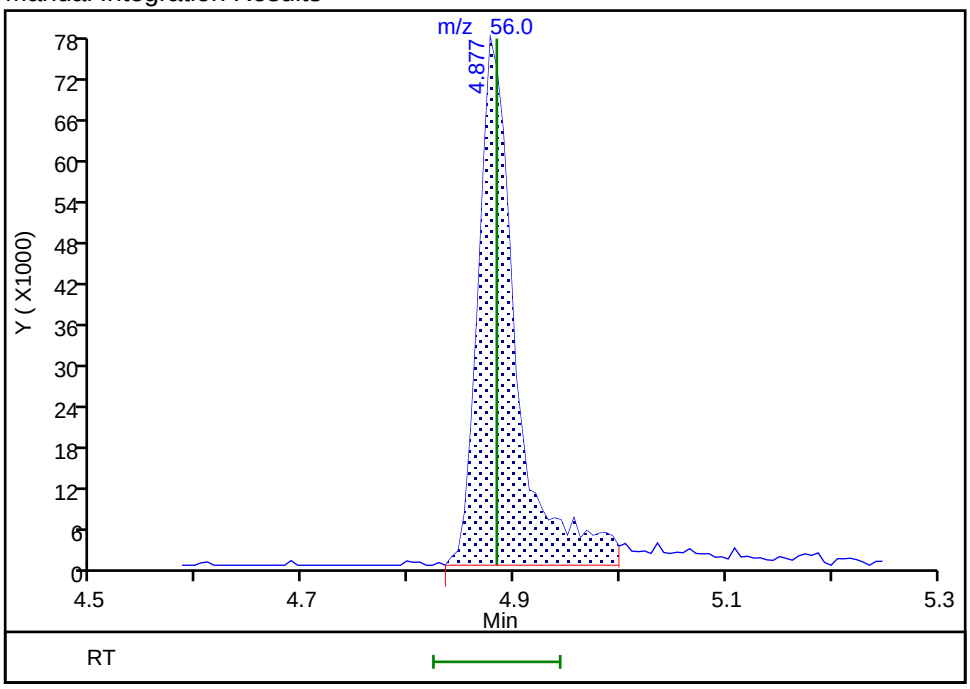
Processing Integration Results

RT: 4.88
Area: 172484
Amount: 9.184054
Amount Units: ug/L



Manual Integration Results

RT: 4.88
Area: 192312
Amount: 10.106438
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:30:39
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

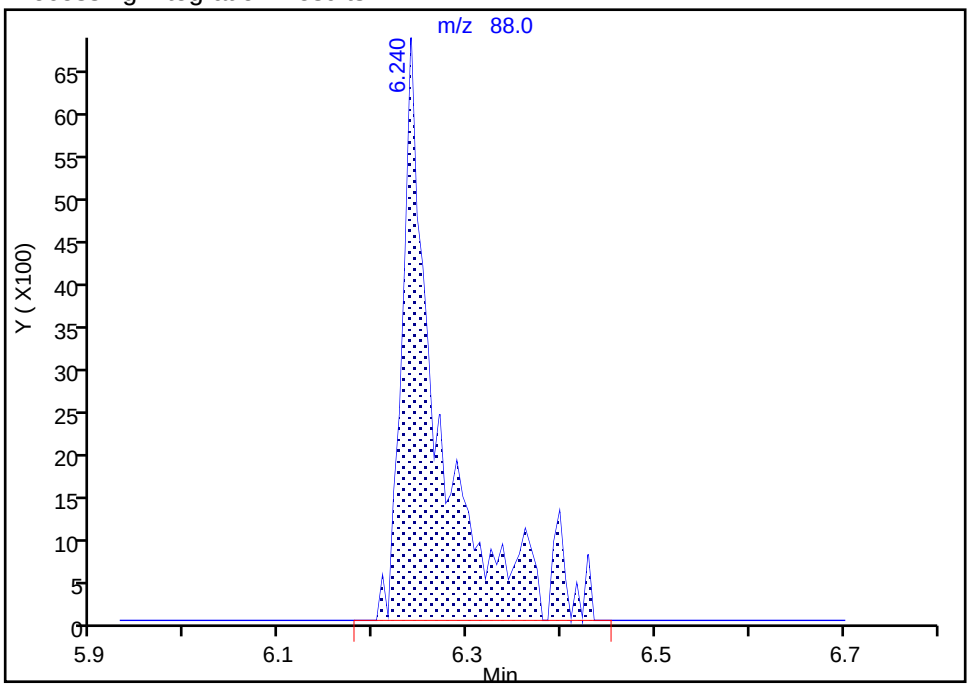
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2510.D
Injection Date: 20-Jun-2018 15:24:30 Instrument ID: HP5973S
Lims ID: IC 4
Client ID:
Operator ID: LH/ZV ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

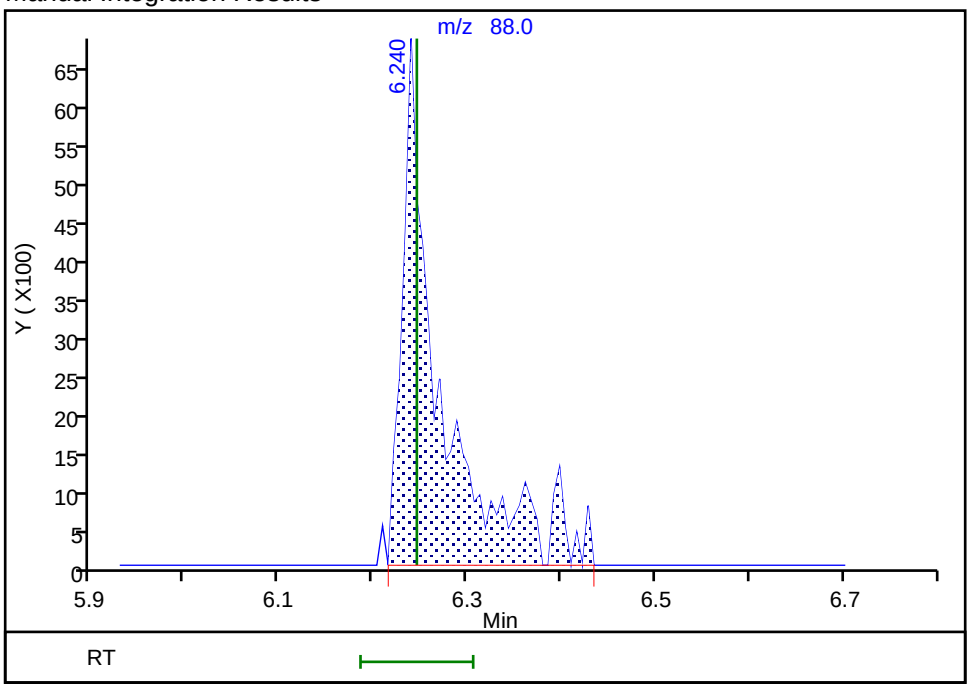
Processing Integration Results

RT: 6.24
Area: 18966
Amount: 219.4414
Amount Units: ug/L



Manual Integration Results

RT: 6.24
Area: 18780
Amount: 217.5811
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:31:28
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 6
Inject. Date: 20-Jun-2018 15:48:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0072482-010
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:26:00 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 20:39:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	197139	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	406209	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	56	365129	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.926	4.926	0.000	58	233776	25.0	24.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	156084	25.0	25.3	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	91	970258	25.0	24.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	303043	25.0	24.9	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	97	248186	25.0	26.1	
12 Chloromethane	50	1.464	1.464	0.000	97	380591	25.0	25.2	
13 Vinyl chloride	62	1.549	1.549	0.000	63	333324	25.0	24.9	
151 Butadiene	54	1.574	1.574	0.000	56	325163	25.0	23.2	
14 Bromomethane	94	1.872	1.872	0.000	89	172433	25.0	24.0	
15 Chloroethane	64	1.969	1.969	0.000	97	204270	25.0	25.2	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	95	412155	25.0	23.2	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	76	332653	25.0	26.2	
18 Ethyl ether	59	2.492	2.492	0.000	92	290892	25.0	25.7	
20 Acrolein	56	2.687	2.687	0.000	95	284078	125.0	131.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.000	68	184140	25.0	23.9	
22 1,1-Dichloroethene	96	2.730	2.730	0.000	90	229631	25.0	26.4	
23 Acetone	43	2.851	2.851	0.000	100	412424	125.0	108.7	
25 Iodomethane	142	2.894	2.894	0.000	98	347195	25.0	27.3	
26 Carbon disulfide	76	2.918	2.918	0.000	98	700429	25.0	25.2	
28 3-Chloro-1-propene	41	3.089	3.089	0.000	88	413143	25.0	24.5	
27 Methyl acetate	43	3.143	3.143	0.000	95	441430	50.0	44.3	
30 Methylene Chloride	84	3.253	3.253	0.000	97	284846	25.0	24.7	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	95	307003	250.0	238.9	M
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	832097	25.0	25.5	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	95	255195	25.0	25.6	
33 Acrylonitrile	53	3.539	3.539	0.000	98	1323936	250.0	250.1	
35 Hexane	57	3.660	3.660	0.000	84	446557	25.0	24.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	96	523385	25.0	24.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1230989	50.0	50.9	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	297960	25.0	25.6	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	83	298747	25.0	26.1	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	717854	125.0	123.3	
48 Chlorobromomethane	128	4.695	4.695	0.000	96	146527	25.0	26.8	
49 Tetrahydrofuran	42	4.713	4.713	0.000	93	202767	50.0	50.7	
50 Chloroform	83	4.774	4.774	0.000	93	443774	25.0	24.2	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	94	345970	25.0	25.3	
52 Cyclohexane	56	4.883	4.883	0.000	89	482758	25.0	26.3	
55 Carbon tetrachloride	117	5.011	5.011	0.000	89	300091	25.0	26.2	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	93	338452	25.0	24.3	
57 Benzene	78	5.236	5.236	0.000	96	1062500	25.0	25.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	94	329152	625.0	608.4	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	415950	25.0	24.6	
59 n-Heptane	43	5.412	5.412	0.000	91	415475	25.0	24.3	
62 Trichloroethene	95	5.850	5.850	0.000	97	271489	25.0	25.2	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	424498	25.0	25.8	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	95	311720	25.0	24.7	
67 Dibromomethane	93	6.234	6.234	0.000	94	168616	25.0	25.6	
66 1,4-Dioxane	88	6.246	6.246	0.000	29	46908	500.0	521.5	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	344167	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	88	225325	25.0	26.8	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	423733	25.0	26.6	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	1601823	125.0	123.5	
74 Toluene	92	7.085	7.085	0.000	94	659595	25.0	24.4	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	93	391909	25.0	26.3	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	383401	25.0	26.3	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	93	202209	25.0	24.9	
81 Tetrachloroethene	166	7.615	7.615	0.000	85	279490	25.0	24.5	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	94	425777	25.0	24.8	
80 2-Hexanone	43	7.791	7.791	0.000	90	1170919	125.0	122.7	
83 Chlorodibromomethane	129	7.961	7.961	0.000	90	247163	25.0	26.7	
84 Ethylene Dibromide	107	8.071	8.071	0.000	97	252512	25.0	24.6	
87 Chlorobenzene	112	8.539	8.539	0.000	93	730835	25.0	24.7	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1214363	25.0	25.0	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	246580	25.0	25.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	469623	25.0	23.7	
91 o-Xylene	106	9.178	9.178	0.000	97	471745	25.0	25.1	
92 Styrene	104	9.209	9.209	0.000	92	821536	25.0	25.5	
95 Bromoform	173	9.464	9.464	0.000	95	156408	25.0	26.5	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	1180615	25.0	25.6	
101 Bromobenzene	156	9.908	9.908	0.000	97	304349	25.0	26.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	72	315135	25.0	25.2	
99 N-Propylbenzene	91	9.987	9.987	0.000	98	1379737	25.0	25.9	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	70	107926	25.0	26.2	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	114077	25.0	25.6	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	288633	25.0	25.1	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	83	1006297	25.0	25.2	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	309390	25.0	26.3	
106 tert-Butylbenzene	134	10.474	10.474	0.000	93	228134	25.0	26.8	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	76	1069434	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1239742	25.0	25.9	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1092636	25.0	26.5	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	573712	25.0	25.4	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	581426	25.0	25.2	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	994221	25.0	26.8	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	93	559407	25.0	25.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	76	66108	25.0	27.2	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	92	411331	25.0	26.0	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	195098	25.0	25.8	
121 Naphthalene	128	12.877	12.877	0.000	97	1171879	25.0	27.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	94	393148	25.0	26.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 12.50	Units: uL	
GAS CORP mix_00287	Amount Added: 12.50	Units: uL	
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent

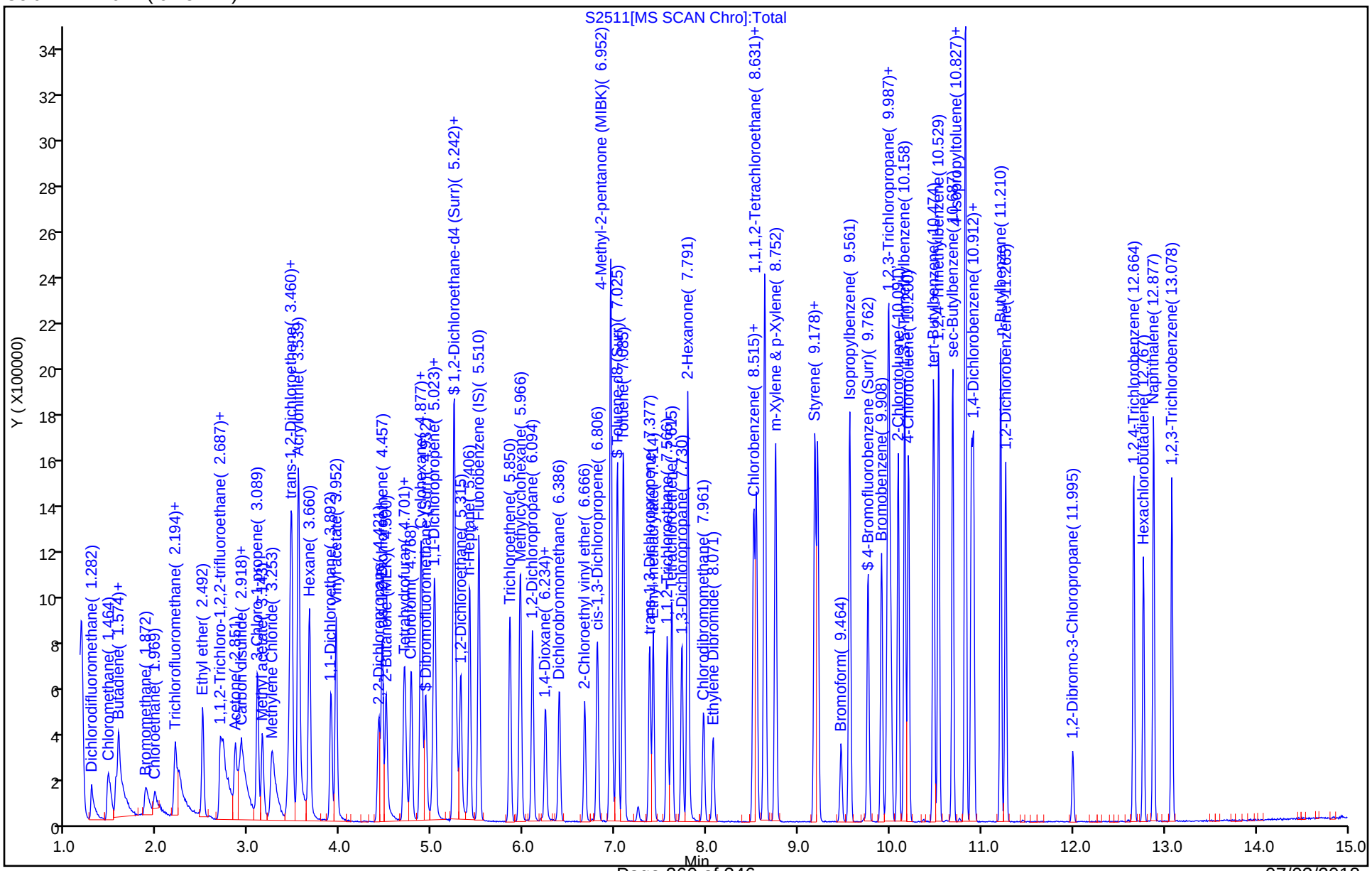
Report Date: 21-Jun-2018 14:26:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D

Injection Date:	20-Jun-2018 15:48:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

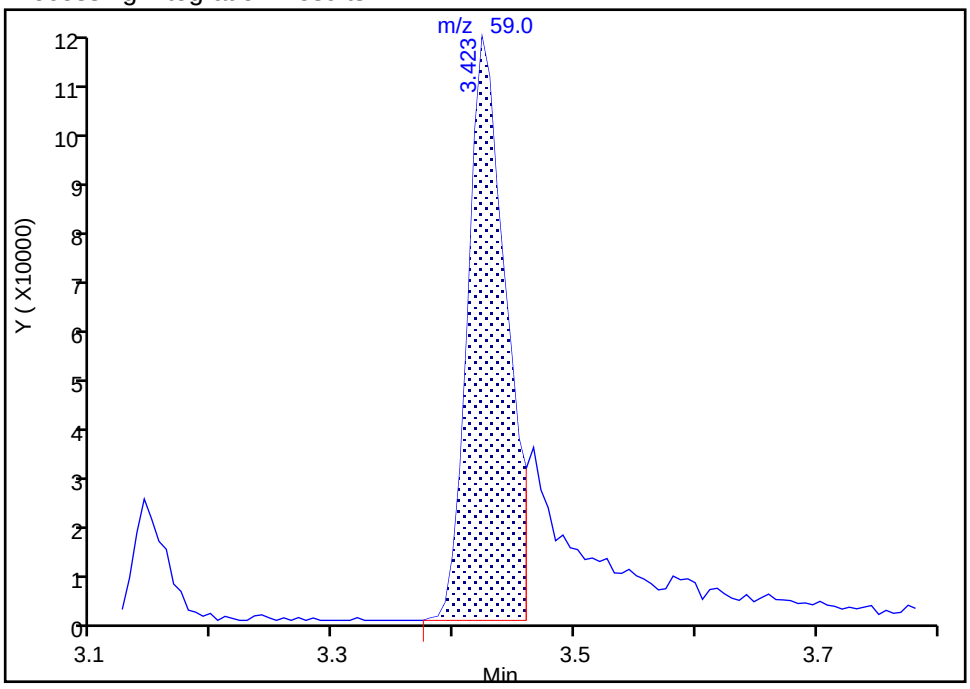
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2511.D
Injection Date: 20-Jun-2018 15:48:30 Instrument ID: HP5973S
Lims ID: ICIS 5
Client ID:
Operator ID: LH/ZV ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

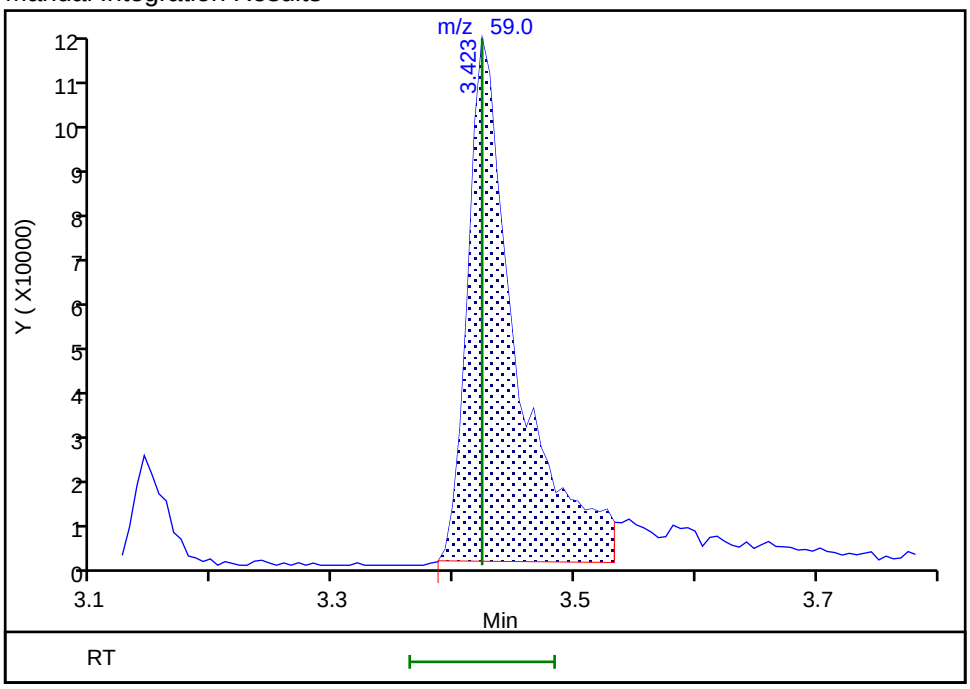
Processing Integration Results

RT: 3.42
Area: 243993
Amount: 233.1605
Amount Units: ug/L



Manual Integration Results

RT: 3.42
Area: 307003
Amount: 238.8921
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:49:52
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jun-2018 16:11:30 ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0072482-011
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:26:07 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 20:20:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	192452	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	87	394691	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	42	371185	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	56	244934	25.0	26.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.236	5.242	-0.006	0	158160	25.0	26.2	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	89	970429	25.0	25.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	302035	25.0	25.6	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	99	556127	50.0	60.0	
12 Chloromethane	50	1.458	1.464	-0.006	99	752596	50.0	51.1	
13 Vinyl chloride	62	1.543	1.549	-0.006	93	722212	50.0	55.2	
151 Butadiene	54	1.574	1.574	0.000	86	714525	50.0	52.3	
14 Bromomethane	94	1.878	1.872	0.006	88	360223	50.0	51.3	
15 Chloroethane	64	1.969	1.969	0.000	99	423584	50.0	53.5	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	81	736903	50.0	59.4	M
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	843653	50.0	48.6	
18 Ethyl ether	59	2.492	2.492	0.000	92	596459	50.0	54.1	
20 Acrolein	56	2.681	2.687	-0.006	96	575962	250.0	272.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	65	364156	50.0	48.0	M
22 1,1-Dichloroethene	96	2.717	2.730	-0.013	95	465301	50.0	54.7	
23 Acetone	43	2.845	2.851	-0.006	97	904483	250.0	244.3	
25 Iodomethane	142	2.894	2.894	0.000	97	730136	50.0	58.7	
26 Carbon disulfide	76	2.918	2.918	0.000	98	1472959	50.0	54.4	
28 3-Chloro-1-propene	41	3.088	3.089	0.000	88	844115	50.0	51.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	983740	100.0	101.2	
30 Methylene Chloride	84	3.253	3.253	0.000	98	551561	50.0	50.8	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	94	680866	500.0	542.7	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	92	1670515	50.0	52.4	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	93	508786	50.0	52.3	
33 Acrylonitrile	53	3.539	3.539	0.000	98	2745107	500.0	531.3	
35 Hexane	57	3.660	3.660	0.000	83	940801	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.891	3.892	-0.001	97	1069251	50.0	52.2	
37 Vinyl acetate	43	3.952	3.952	0.000	97	2352331	100.0	99.5	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	92	592229	50.0	52.1	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	596033	50.0	53.3	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	94	1439504	250.0	253.2	
48 Chlorobromomethane	128	4.695	4.695	0.000	97	285479	50.0	53.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	90	387841	100.0	99.3	
50 Chloroform	83	4.768	4.774	-0.006	94	907363	50.0	50.7	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	95	716429	50.0	53.8	
52 Cyclohexane	56	4.883	4.883	0.000	91	997545	50.0	55.6	
55 Carbon tetrachloride	117	5.017	5.011	0.006	92	637175	50.0	57.1	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	714312	50.0	52.6	
57 Benzene	78	5.236	5.236	0.000	97	2128022	50.0	52.1	
53 Isobutyl alcohol	43	5.266	5.266	0.000	97	721955	1250.0	1367.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	79	838833	50.0	50.9	
59 n-Heptane	43	5.406	5.412	-0.006	91	829266	50.0	49.7	
62 Trichloroethene	95	5.850	5.850	0.000	97	545392	50.0	51.8	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	895898	50.0	55.9	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	642638	50.0	52.2	
67 Dibromomethane	93	6.234	6.234	0.000	91	338999	50.0	52.7	
66 1,4-Dioxane	88	6.240	6.246	-0.006	33	91625	1000.0	1034.9	
68 Dichlorobromomethane	83	6.386	6.386	0.000	98	708669	50.0	57.2	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	451891	50.0	55.0	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	90	863532	50.0	55.5	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	3068632	250.0	243.5	
74 Toluene	92	7.085	7.085	0.000	95	1345091	50.0	51.3	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	95	800744	50.0	55.4	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	758693	50.0	53.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	92	408565	50.0	51.7	
81 Tetrachloroethene	166	7.615	7.615	0.000	87	580239	50.0	52.4	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	866770	50.0	52.0	
80 2-Hexanone	43	7.791	7.791	0.000	90	2254226	250.0	243.0	
83 Chlorodibromomethane	129	7.967	7.961	0.006	90	515833	50.0	57.4	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	508600	50.0	51.1	
87 Chlorobenzene	112	8.539	8.539	0.000	92	1474031	50.0	51.3	
88 Ethylbenzene	91	8.631	8.631	0.000	98	2446781	50.0	51.7	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.643	-0.006	48	510400	50.0	54.9	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	969691	50.0	50.4	
91 o-Xylene	106	9.178	9.178	0.000	97	960148	50.0	52.6	
92 Styrene	104	9.209	9.209	0.000	94	1666910	50.0	53.2	
95 Bromoform	173	9.464	9.464	0.000	97	339740	50.0	59.2	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	2412885	50.0	51.6	
101 Bromobenzene	156	9.908	9.908	0.000	95	604551	50.0	51.1	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	75	630975	50.0	49.6	
99 N-Propylbenzene	91	9.987	9.987	0.000	99	2782295	50.0	51.3	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	69	221749	50.0	53.0	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	80	231344	50.0	50.4	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	577783	50.0	49.5	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	85	2040375	50.0	50.3	
105 4-Chlorotoluene	126	10.200	10.200	0.000	96	620467	50.0	51.9	
106 tert-Butylbenzene	134	10.480	10.474	0.006	93	469785	50.0	54.3	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	2132089	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	2510799	50.0	51.6	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	73	1163942	50.0	50.6	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	2224584	50.0	53.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	93	1170382	50.0	49.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	97	1968301	50.0	52.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	1131910	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	82	138297	50.0	56.1	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	859177	50.0	53.3	
120 Hexachlorobutadiene	225	12.767	12.767	0.000	96	404793	50.0	52.6	
121 Naphthalene	128	12.877	12.877	0.000	97	2369399	50.0	53.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	95	796689	50.0	53.6	
S 123 Total BTEX	1				0			258.1	
S 125 1,2-Dichloroethene, Total	1				0			105.6	
S 124 Xylenes, Total	1				0			103.0	
S 126 1,3-Dichloropropene, Total	1				0			110.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added: 25.00	Units: uL		
GAS CORP mix_00287	Amount Added: 25.00	Units: uL		
S_8260_IS_00293	Amount Added: 1.00	Units: uL	Run Reagent	
S_8260_Surr_00274	Amount Added: 1.00	Units: uL	Run Reagent	

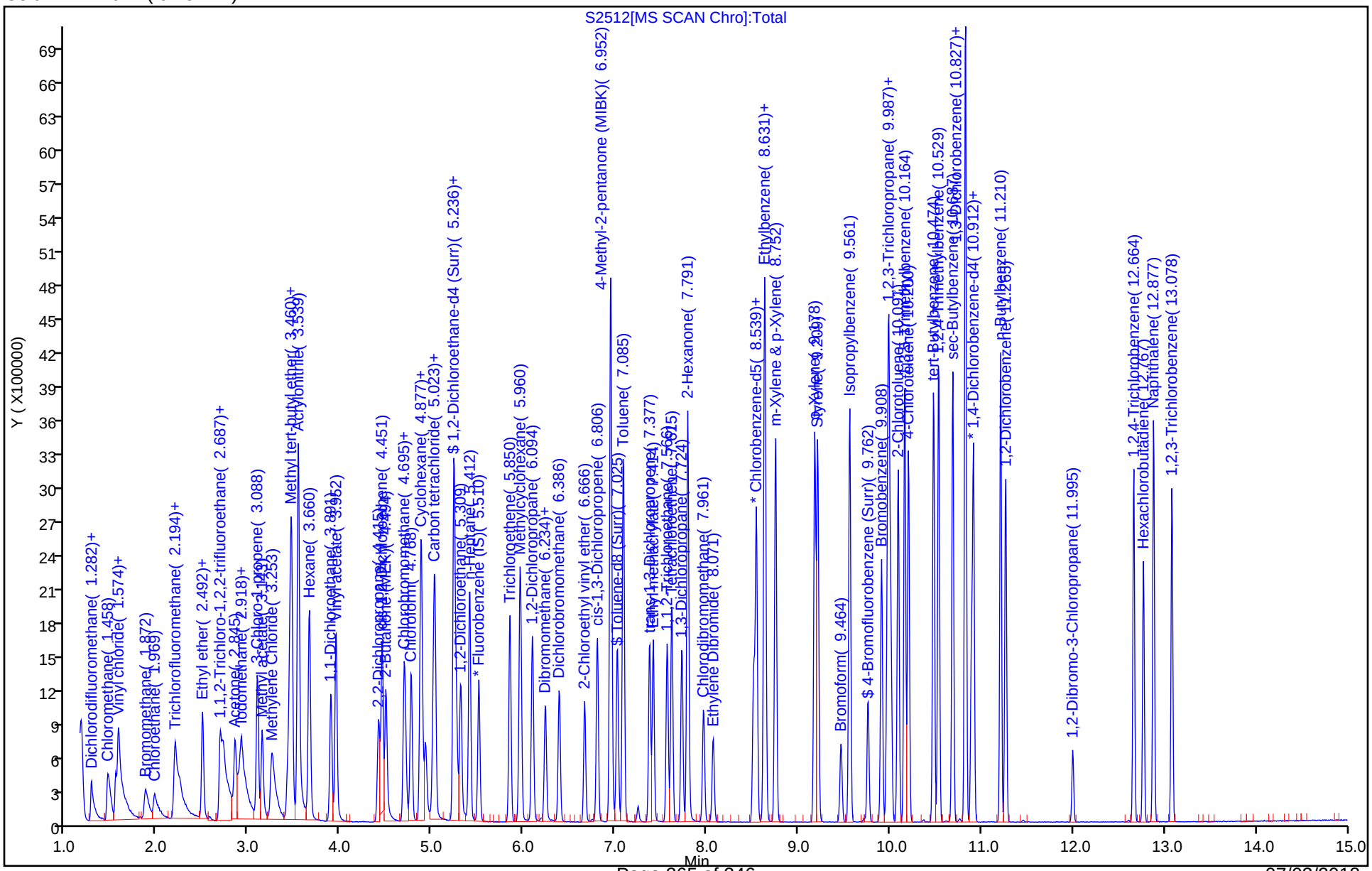
Report Date: 21-Jun-2018 14:26:08 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D

Injection Date:	20-Jun-2018 16:11:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

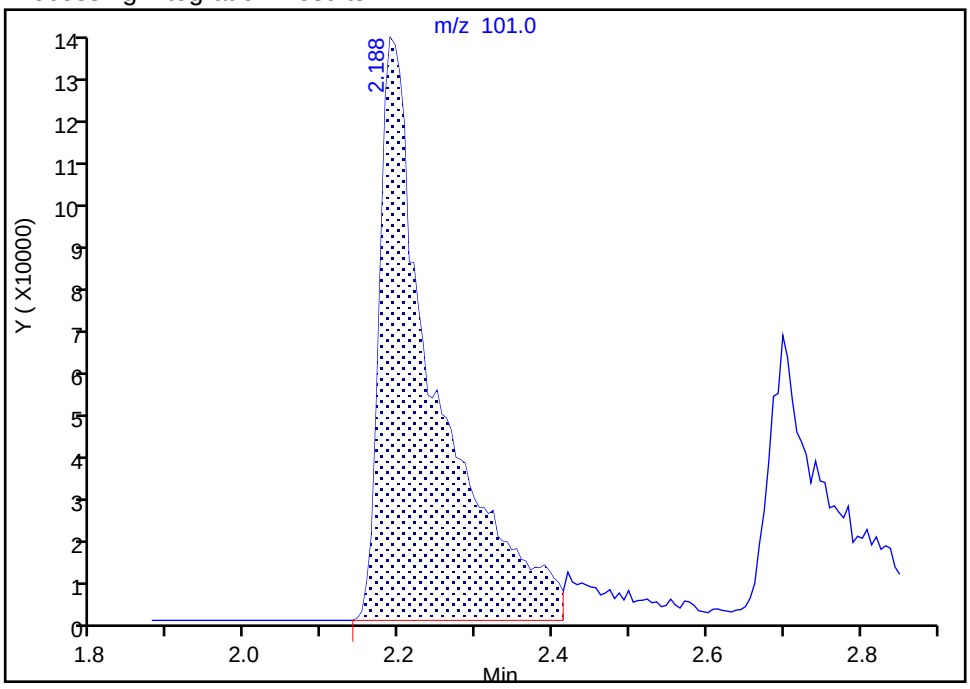
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

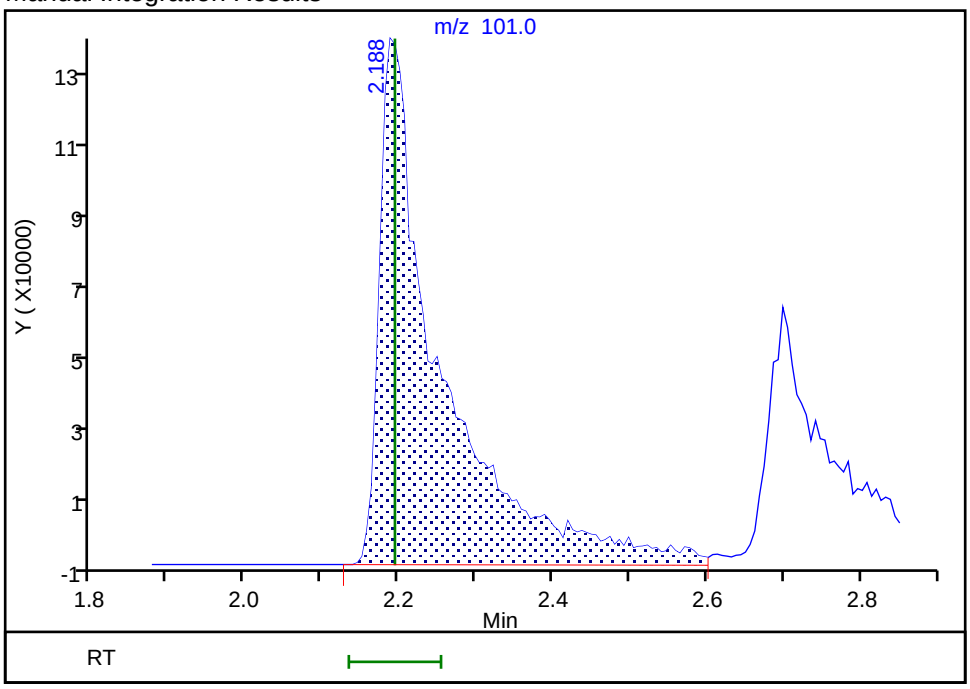
Processing Integration Results

RT: 2.19
Area: 674194
Amount: 50.268036
Amount Units: ug/L



Manual Integration Results

RT: 2.19
Area: 736903
Amount: 59.400714
Amount Units: ug/L



Reviewer: nowakk, 20-Jun-2018 23:01:35
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

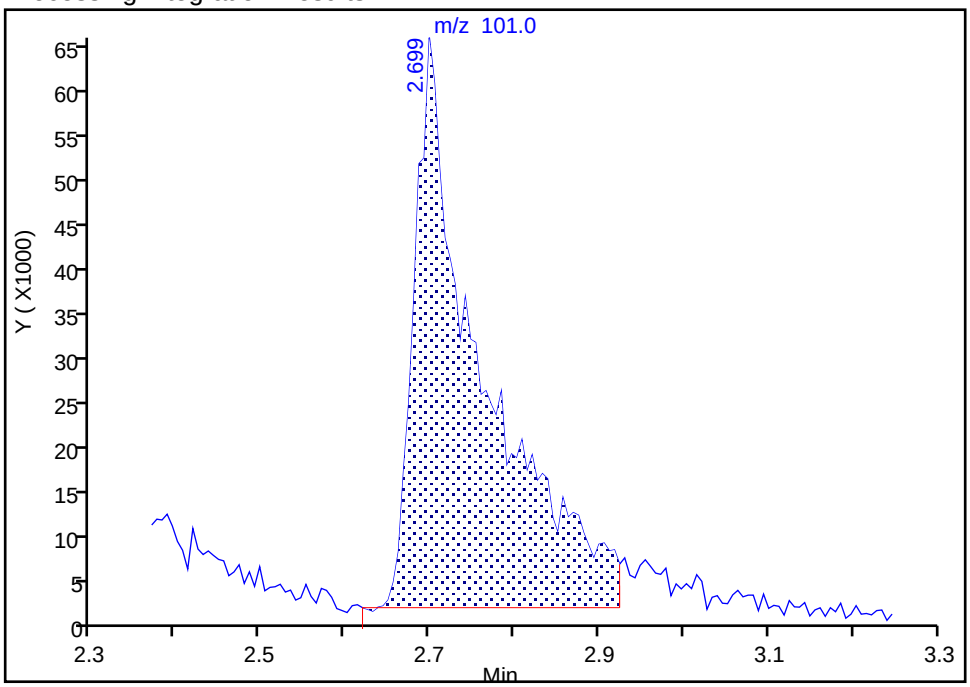
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2512.D
Injection Date: 20-Jun-2018 16:11:30 Instrument ID: HP5973S
Lims ID: IC 6
Client ID:
Operator ID: LH/ZV ALS Bottle#: 9 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

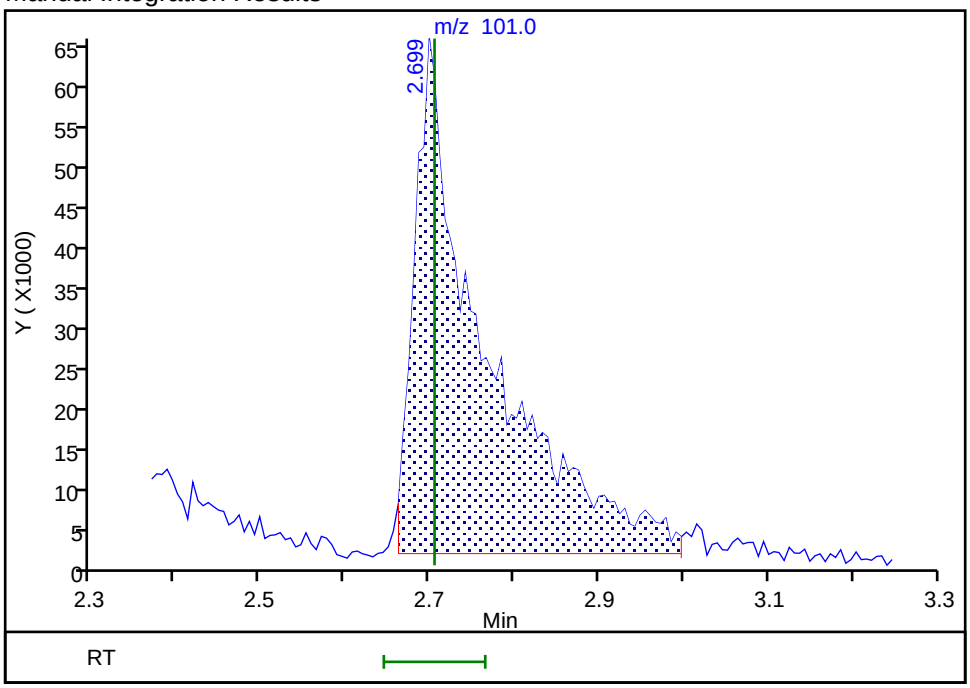
Processing Integration Results

RT: 2.70
Area: 349411
Amount: 45.201404
Amount Units: ug/L



Manual Integration Results

RT: 2.70
Area: 364156
Amount: 47.992777
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:33:16
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Jun-2018 16:34:30 ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0072482-012
Operator ID: LH/ZV Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 21-Jun-2018 14:26:11 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: nowakk Date: 20-Jun-2018 19:35:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	203954	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	404509	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	17	376772	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.926	0.006	57	247091	25.0	25.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	152101	25.0	23.8	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	64	969583	25.0	24.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	90	306600	25.0	25.3	
10 Dichlorodifluoromethane	85	1.282	1.282	0.000	98	1042243	100.0	106.1	M
12 Chloromethane	50	1.464	1.464	0.000	99	1481396	100.0	94.9	
13 Vinyl chloride	62	1.543	1.549	-0.006	82	1374584	100.0	99.1	
151 Butadiene	54	1.574	1.574	0.000	82	1368549	100.0	94.6	
14 Bromomethane	94	1.878	1.872	0.006	91	712144	100.0	95.8	
15 Chloroethane	64	1.969	1.969	0.000	99	830061	100.0	98.8	
16 Dichlorofluoromethane	67	2.194	2.194	0.000	96	1716432	100.0	93.3	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	85	1437497	100.0	109.3	
18 Ethyl ether	59	2.492	2.492	0.000	92	1181934	100.0	101.1	
20 Acrolein	56	2.687	2.687	0.000	98	1162249	500.0	518.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.705	-0.006	59	822020	100.0	101.8	M
22 1,1-Dichloroethene	96	2.724	2.730	-0.006	94	990419	100.0	109.9	
23 Acetone	43	2.845	2.851	-0.006	98	1835772	500.0	467.8	
25 Iodomethane	142	2.894	2.894	0.000	98	1547832	100.0	117.5	
26 Carbon disulfide	76	2.918	2.918	0.000	98	3032330	100.0	105.6	
28 3-Chloro-1-propene	41	3.095	3.089	0.007	89	1733446	100.0	99.2	
27 Methyl acetate	43	3.143	3.143	0.000	95	1983551	200.0	192.5	
30 Methylene Chloride	84	3.253	3.253	0.000	96	1126336	100.0	99.6	
31 2-Methyl-2-propanol	59	3.423	3.423	0.000	96	1598960	1000.0	1202.6	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	91	3395940	100.0	100.6	
34 trans-1,2-Dichloroethene	96	3.466	3.472	-0.006	92	1050113	100.0	101.9	
33 Acrylonitrile	53	3.539	3.539	0.000	97	5416558	1000.0	989.2	
35 Hexane	57	3.660	3.660	0.000	87	1983165	100.0	104.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.892	3.892	0.000	97	2191279	100.0	100.9	
37 Vinyl acetate	43	3.952	3.952	0.000	97	4622714	200.0	184.6	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	1257016	100.0	104.4	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	84	1225447	100.0	103.4	
43 2-Butanone (MEK)	43	4.494	4.494	0.000	95	3041661	500.0	504.8	
48 Chlorobromomethane	128	4.695	4.695	0.000	98	585187	100.0	103.4	
49 Tetrahydrofuran	42	4.707	4.713	-0.006	87	822605	200.0	198.7	
50 Chloroform	83	4.774	4.774	0.000	93	1854730	100.0	97.9	
51 1,1,1-Trichloroethane	97	4.877	4.877	0.000	93	1501541	100.0	106.3	
52 Cyclohexane	56	4.877	4.883	-0.006	91	2165602	100.0	114.0	
55 Carbon tetrachloride	117	5.017	5.011	0.006	89	1320508	100.0	111.6	
54 1,1-Dichloropropene	75	5.029	5.029	0.000	94	1495256	100.0	103.9	
57 Benzene	78	5.236	5.236	0.000	98	4301395	100.0	99.4	
53 Isobutyl alcohol	43	5.266	5.266	0.000	95	1557611	2500.0	2783.0	
58 1,2-Dichloroethane	62	5.309	5.315	-0.006	83	1702374	100.0	97.4	
59 n-Heptane	43	5.406	5.412	-0.006	91	1743611	100.0	98.6	
62 Trichloroethene	95	5.850	5.850	0.000	97	1155378	100.0	103.5	
64 Methylcyclohexane	83	5.960	5.960	0.000	93	1857834	100.0	109.3	
65 1,2-Dichloropropane	63	6.094	6.094	0.000	97	1287446	100.0	98.6	
67 Dibromomethane	93	6.234	6.234	0.000	90	708426	100.0	104.0	
66 1,4-Dioxane	88	6.240	6.246	-0.006	35	176888	2000.0	1937.7	
68 Dichlorobromomethane	83	6.386	6.386	0.000	99	1480734	100.0	112.8	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	91	926261	100.0	106.3	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	91	1778596	100.0	107.8	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	91	5759555	500.0	446.0	
74 Toluene	92	7.092	7.085	0.007	97	2760907	100.0	102.7	
77 trans-1,3-Dichloropropene	75	7.377	7.377	0.000	94	1691433	100.0	114.2	
75 Ethyl methacrylate	69	7.414	7.414	0.000	86	1589664	100.0	109.5	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	844173	100.0	104.2	
81 Tetrachloroethene	166	7.621	7.615	0.006	85	1184748	100.0	104.3	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	93	1776603	100.0	104.0	
80 2-Hexanone	43	7.791	7.791	0.000	87	4341846	500.0	456.8	
83 Chlorodibromomethane	129	7.968	7.961	0.007	91	1120056	100.0	121.6	
84 Ethylene Dibromide	107	8.071	8.071	0.000	98	1055354	100.0	103.4	
87 Chlorobenzene	112	8.539	8.539	0.000	92	3001103	100.0	101.8	
88 Ethylbenzene	91	8.631	8.631	0.000	98	4820637	100.0	99.5	
89 1,1,1,2-Tetrachloroethane	131	8.643	8.643	0.000	57	1084784	100.0	113.8	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	2043355	100.0	103.6	
91 o-Xylene	106	9.178	9.178	0.000	97	1982170	100.0	105.9	
92 Styrene	104	9.209	9.209	0.000	94	3414832	100.0	106.3	
95 Bromoform	173	9.464	9.464	0.000	97	760638	100.0	129.3	
94 Isopropylbenzene	105	9.561	9.561	0.000	96	4783571	100.0	100.7	
101 Bromobenzene	156	9.908	9.908	0.000	96	1270447	100.0	105.7	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	80	1304499	100.0	101.1	
99 N-Propylbenzene	91	9.987	9.987	0.000	97	5345840	100.0	97.1	
100 1,2,3-Trichloropropane	110	9.999	9.999	0.000	68	441615	100.0	103.9	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.012	0.000	79	502274	100.0	107.2	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	1194322	100.0	100.8	
102 1,3,5-Trimethylbenzene	105	10.164	10.164	0.000	86	4068375	100.0	98.7	
105 4-Chlorotoluene	126	10.206	10.200	0.006	95	1278707	100.0	105.3	
106 tert-Butylbenzene	134	10.480	10.474	0.006	92	961000	100.0	109.4	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	77	4149841	100.0	98.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	95	4943148	100.0	100.0	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	4286221	100.0	100.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	74	2337298	100.0	100.1	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	92	2382476	100.0	100.1	
115 n-Butylbenzene	91	11.210	11.210	0.000	95	3893665	100.0	101.5	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	92	2277520	100.0	99.1	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	83	279459	100.0	111.6	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	95	1741646	100.0	106.5	
120 Hexachlorobutadiene	225	12.768	12.767	0.001	96	853596	100.0	109.2	
121 Naphthalene	128	12.877	12.877	0.000	98	4593666	100.0	102.8	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	1662277	100.0	110.3	
S 124 Xylenes, Total	1				0			209.6	
S 126 1,3-Dichloropropene, Total	1				0			222.0	
S 123 Total BTEX	1				0			511.1	
S 125 1,2-Dichloroethene, Total	1				0			205.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00128	Amount Added:	50.00	Units: uL	
GAS CORP mix_00287	Amount Added:	50.00	Units: uL	
S_8260_IS_00293	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00274	Amount Added:	1.00	Units: uL	Run Reagent

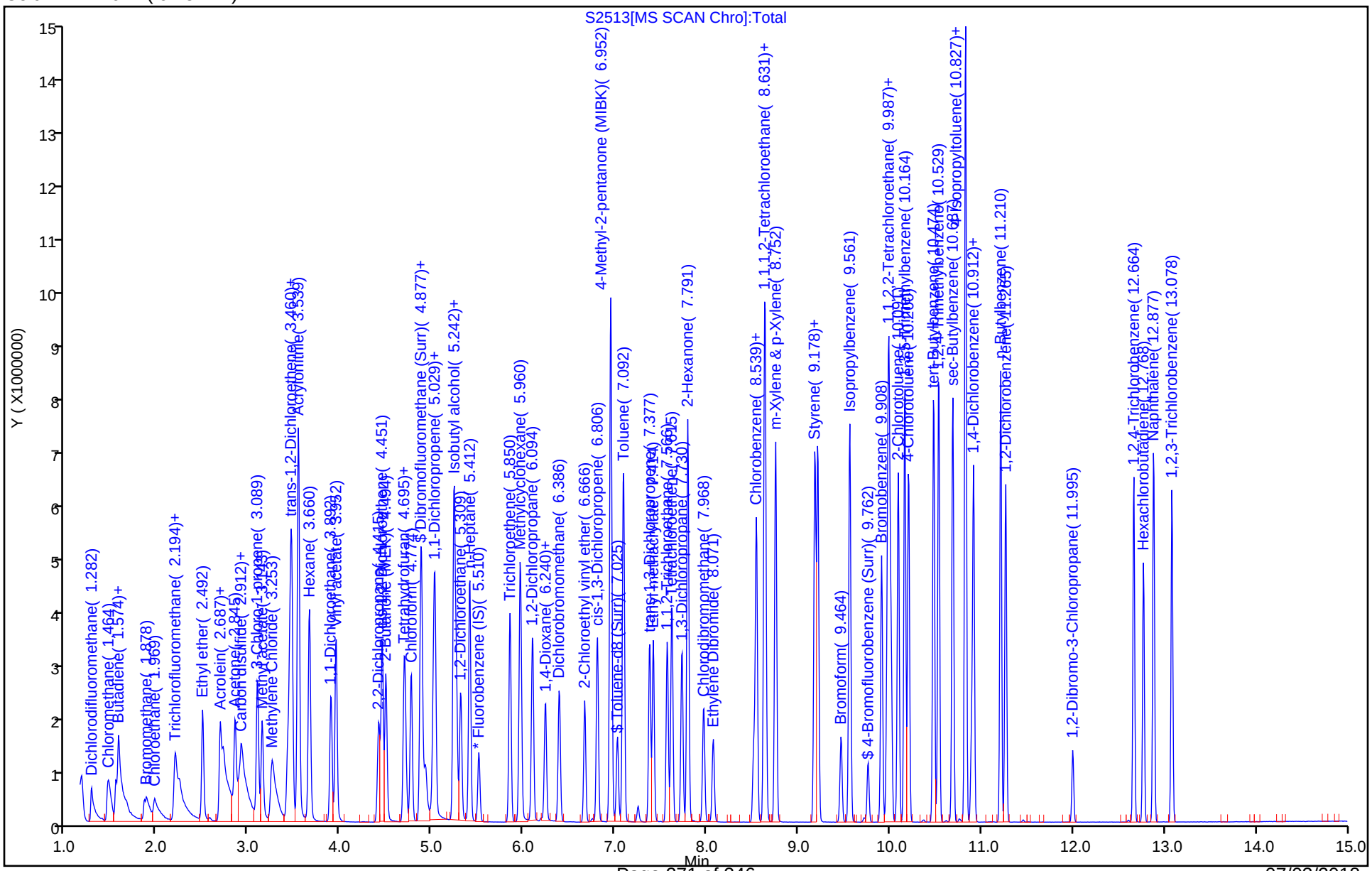
Report Date: 21-Jun-2018 14:26:13 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D

Injection Date:	20-Jun-2018 16:34:30	Instrument ID:	HP5973S	Operator ID:	LH/ZV
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

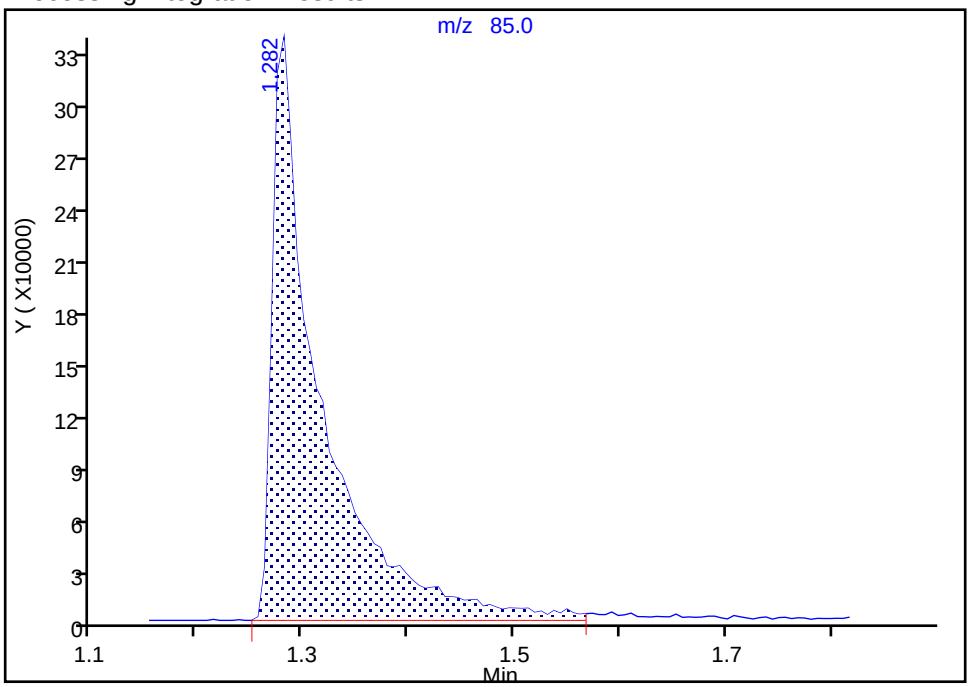
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

10 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

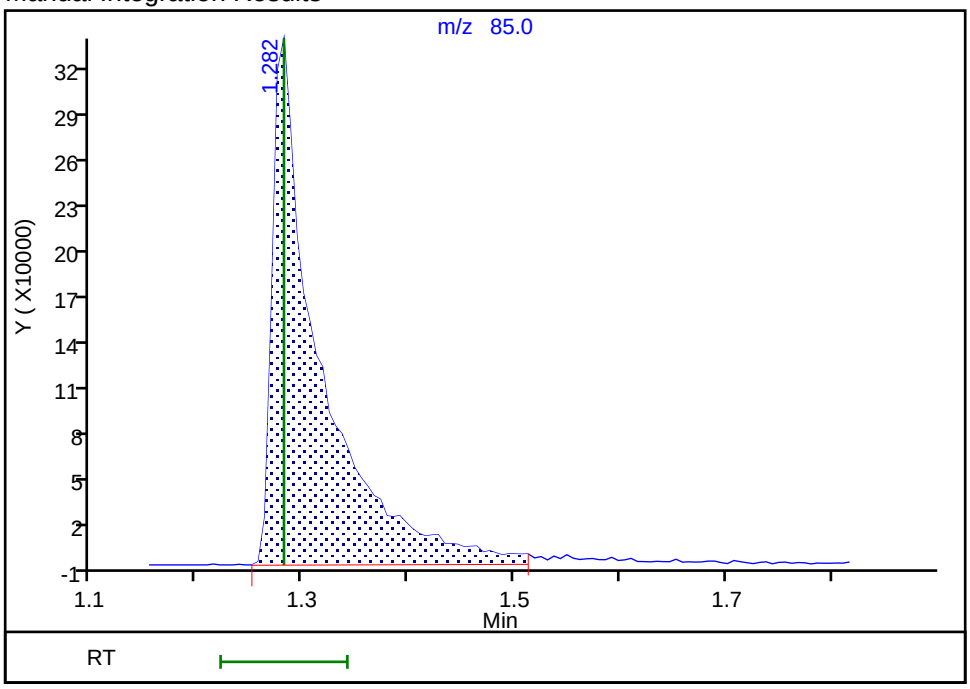
Processing Integration Results

RT: 1.28
Area: 1058190
Amount: 97.253184
Amount Units: ug/L



Manual Integration Results

RT: 1.28
Area: 1042243
Amount: 106.0994
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 13:50:38
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

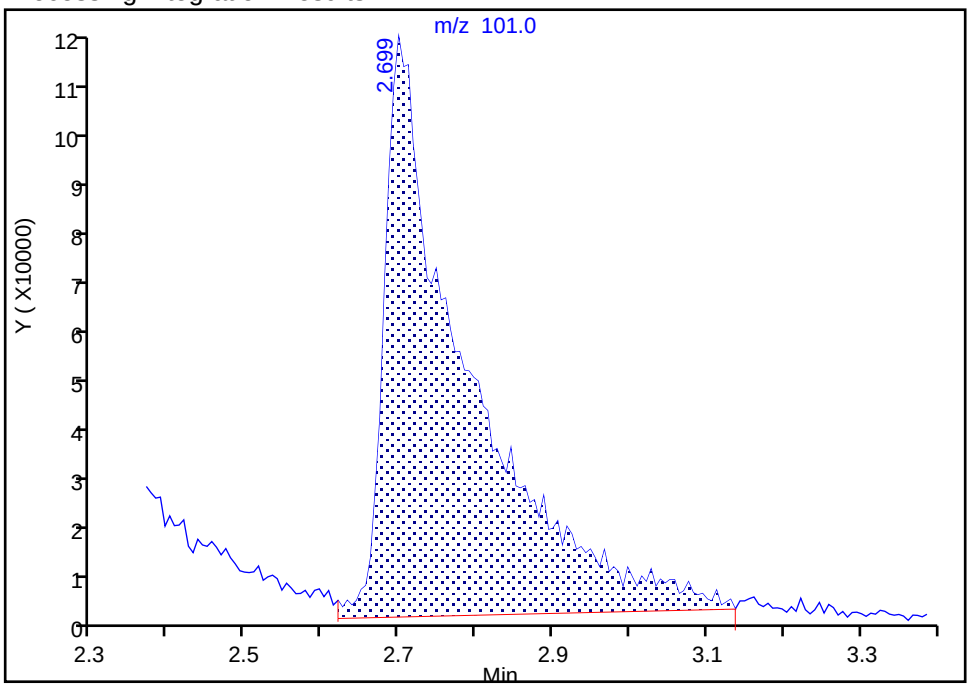
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2513.D
Injection Date: 20-Jun-2018 16:34:30 Instrument ID: HP5973S
Lims ID: IC 7
Client ID:
Operator ID: LH/ZV ALS Bottle#: 10 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

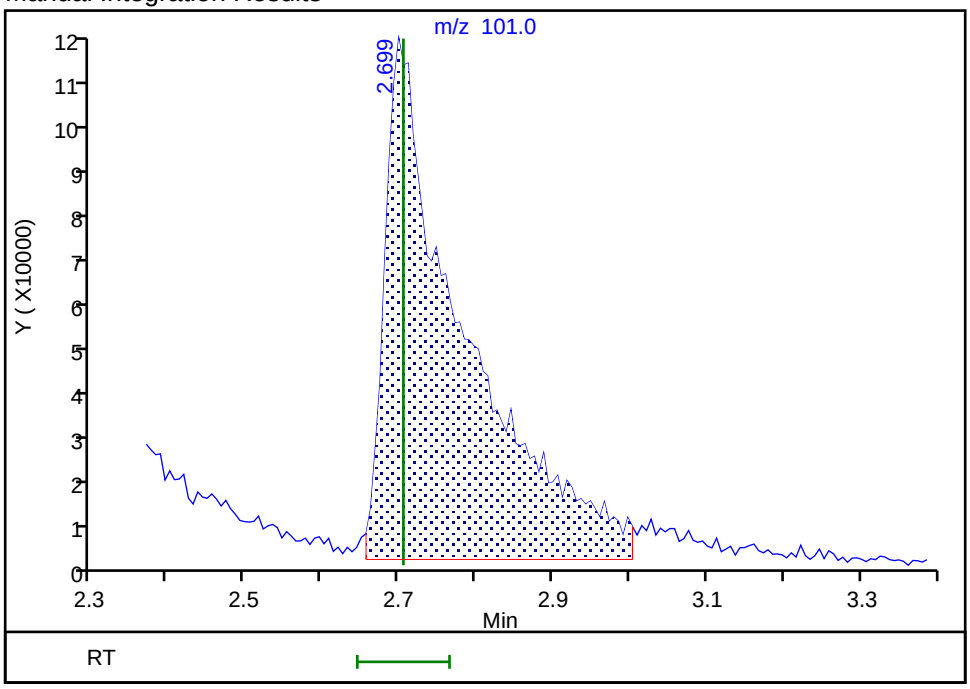
Processing Integration Results

RT: 2.70
Area: 865473
Amount: 103.9221
Amount Units: ug/L



Manual Integration Results

RT: 2.70
Area: 822020
Amount: 101.8067
Amount Units: ug/L



Reviewer: moffata, 21-Jun-2018 12:38:32
Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421262/3 Calibration Date: 06/24/2018 09:04

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2991.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.579	1.388	0.1000	44.0	50.0	-12.1	50.0
Chloromethane	Ave	1.288	1.084	0.1000	42.1	50.0	-15.8	20.0
Vinyl chloride	Ave	1.261	1.048	0.1000	41.5	50.0	-16.9	20.0
Butadiene	Ave	1.402	1.118		39.9	50.0	-20.2*	20.0
Bromomethane	Ave	0.7119	0.5265	0.1000	37.0	50.0	-26.0	50.0
Chloroethane	Ave	0.5704	0.4270	0.1000	37.4	50.0	-25.1	50.0
Dichlorofluoromethane	Ave	1.536	1.313		42.7	50.0	-14.5	20.0
Trichlorofluoromethane	Ave	1.663	1.462	0.1000	44.0	50.0	-12.1	20.0
Ethyl ether	Ave	0.9647	0.9603		49.8	50.0	-0.5	20.0
Acrolein	Ave	0.2544	0.2390		235	250	-6.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.299	1.168	0.1000	45.0	50.0	-10.1	20.0
1,1-Dichloroethene	Ave	1.290	1.260	0.1000	48.8	50.0	-2.3	20.0
Acetone	Ave	0.5248	0.5098	0.1000	243	250	-2.8	50.0
Iodomethane	Ave	2.312	2.150		46.5	50.0	-7.0	20.0
Carbon disulfide	Ave	4.170	4.160	0.1000	49.9	50.0	-0.2	20.0
Allyl chloride	Ave	2.064	1.906		46.2	50.0	-7.6	20.0
Methyl acetate	Ave	0.9793	1.210	0.1000	124	100	23.6	50.0
Methylene Chloride	Lin1		1.473	0.1000	48.2	50.0	-3.6	20.0
2-Methyl-2-propanol	Ave	0.1531	0.1647		538	500	7.5	50.0
Methyl tert-butyl ether	Ave	4.500	3.590	0.1000	39.9	50.0	-20.2*	20.0
trans-1,2-Dichloroethene	Ave	1.485	1.472	0.1000	49.5	50.0	-0.9	20.0
Acrylonitrile	Ave	0.4921	0.5946		604	500	20.8*	20.0
Hexane	Ave	2.341	2.267		48.4	50.0	-3.1	20.0
Vinyl acetate	Ave	2.745	2.452		89.3	100	-10.7	20.0
1,1-Dichloroethane	Ave	2.540	2.439	0.2000	48.0	50.0	-4.0	20.0
2,2-Dichloropropane	Ave	2.189	1.808		41.3	50.0	-17.4	20.0
2-Butanone (MEK)	Ave	0.6830	0.8115	0.1000	297	250	18.8	20.0
cis-1,2-Dichloroethene	Ave	1.633	1.560	0.1000	47.8	50.0	-4.5	20.0
Chlorobromomethane	Ave	0.7735	0.6971		45.1	50.0	-9.9	20.0
Tetrahydrofuran	Ave	0.4173	0.5200		125	100	24.6*	20.0
Chloroform	Ave	2.658	2.428	0.2000	45.7	50.0	-8.7	20.0
1,1,1-Trichloroethane	Ave	2.255	1.905	0.1000	42.2	50.0	-15.5	20.0
Cyclohexane	Ave	2.278	2.098	0.1000	46.0	50.0	-7.9	20.0
1,1-Dichloropropene	Ave	2.098	1.992		47.5	50.0	-5.0	20.0
Carbon tetrachloride	Ave	1.897	1.578	0.1000	41.6	50.0	-16.8	20.0
Isobutyl alcohol	Ave	0.0639	0.0791		1550	1250	23.8	50.0
Benzene	Ave	5.759	5.660	0.5000	49.1	50.0	-1.7	20.0
1,2-Dichloroethane	Ave	2.197	1.821	0.1000	41.4	50.0	-17.1	20.0
n-Heptane	Ave	2.259	2.145		47.5	50.0	-5.1	20.0
Trichloroethene	Ave	1.536	1.436	0.2000	46.7	50.0	-6.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421262/3 Calibration Date: 06/24/2018 09:04

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2991.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.708	2.464	0.1000	45.5	50.0	-9.0	20.0
1,2-Dichloropropane	Ave	1.346	1.263	0.1000	46.9	50.0	-6.2	20.0
1,4-Dioxane	Ave	0.0074	0.0105		1410	1000	41.0	50.0
Dibromomethane	Ave	0.9168	0.8076	0.1000	44.0	50.0	-11.9	20.0
Bromodichloromethane	Ave	1.872	1.677	0.2000	44.8	50.0	-10.4	20.0
2-Chloroethyl vinyl ether	Ave	0.8265	0.7442		45.0	50.0	-10.0	20.0
cis-1,3-Dichloropropene	Ave	2.281	2.010	0.2000	44.1	50.0	-11.9	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6349	0.6939	0.1000	273	250	9.3	20.0
Toluene	Ave	1.791	1.762	0.4000	49.2	50.0	-1.6	20.0
trans-1,3-Dichloropropene	Ave	1.049	0.9410	0.1000	44.8	50.0	-10.3	20.0
Ethyl methacrylate	Ave	0.9068	0.8029		44.3	50.0	-11.5	20.0
1,1,2-Trichloroethane	Ave	0.5094	0.4809	0.1000	47.2	50.0	-5.6	20.0
Tetrachloroethene	Ave	0.8056	0.7746	0.2000	48.1	50.0	-3.9	20.0
1,3-Dichloropropane	Ave	1.079	1.041		48.3	50.0	-3.5	20.0
2-Hexanone	Ave	0.4957	0.5686	0.1000	287	250	14.7	20.0
Dibromochloromethane	Ave	0.6349	0.5852	0.1000	46.1	50.0	-7.8	20.0
1,2-Dibromoethane	Ave	0.6490	0.6059		46.7	50.0	-6.7	20.0
Chlorobenzene	Ave	1.939	1.872	0.5000	48.3	50.0	-3.5	20.0
Ethylbenzene	Ave	3.228	3.123	0.1000	48.4	50.0	-3.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6266	0.5696		45.5	50.0	-9.1	20.0
m,p-Xylene	Ave	1.355	1.286	0.1000	47.4	50.0	-5.1	20.0
o-Xylene	Ave	1.268	1.176	0.3000	46.4	50.0	-7.3	20.0
Styrene	Ave	2.213	2.080	0.3000	47.0	50.0	-6.0	20.0
Bromoform	Ave	0.4126	0.3870	0.1000	46.9	50.0	-6.2	50.0
Isopropylbenzene	Ave	3.261	3.188	0.1000	48.9	50.0	-2.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8208	0.8248	0.3000	50.2	50.0	0.5	20.0
Bromobenzene	Ave	0.8992	0.8554		47.6	50.0	-4.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2698	0.2592		48.0	50.0	-3.9	50.0
N-Propylbenzene	Ave	3.803	3.807		50.1	50.0	0.1	20.0
1,2,3-Trichloropropane	Ave	0.2816	0.2808		49.9	50.0	-0.3	20.0
2-Chlorotoluene	Ave	0.8115	0.7863		48.5	50.0	-3.1	20.0
1,3,5-Trimethylbenzene	Ave	2.811	2.726		48.5	50.0	-3.0	20.0
4-Chlorotoluene	Ave	0.8777	0.8556		48.7	50.0	-2.5	20.0
tert-Butylbenzene	Ave	0.6427	0.6199		48.2	50.0	-3.6	20.0
1,2,4-Trimethylbenzene	Ave	2.885	2.781		48.2	50.0	-3.6	20.0
sec-Butylbenzene	Ave	3.533	3.464		49.0	50.0	-2.0	20.0
4-Isopropyltoluene	Ave	3.018	2.933		48.6	50.0	-2.8	20.0
1,3-Dichlorobenzene	Ave	1.677	1.611	0.6000	48.1	50.0	-3.9	20.0
1,4-Dichlorobenzene	Ave	1.720	1.640	0.5000	47.7	50.0	-4.6	20.0
n-Butylbenzene	Ave	2.719	2.627		48.3	50.0	-3.4	20.0
1,2-Dichlorobenzene	Ave	1.545	1.430	0.4000	46.3	50.0	-7.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421262/3 Calibration Date: 06/24/2018 09:04

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F2991.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1581	0.1631	0.0500	51.6	50.0	3.2	50.0
1,2,4-Trichlorobenzene	Ave	1.031	0.9168	0.2000	44.5	50.0	-11.1	20.0
Hexachlorobutadiene	Ave	0.6209	0.5690		45.8	50.0	-8.4	20.0
Naphthalene	Ave	2.405	2.206		45.9	50.0	-8.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9504	0.8283		43.6	50.0	-12.8	20.0
Dibromofluoromethane (Surr)	Ave	1.227	1.212		49.4	50.0	-1.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7941	0.7580		47.7	50.0	-4.5	20.0
Toluene-d8 (Surr)	Ave	2.306	2.468		53.5	50.0	7.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7793	0.7707		49.4	50.0	-1.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2991.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 24-Jun-2018 09:04:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0072575-003
Operator ID: AM Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 24-Jun-2018 11:04:10 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: moffata Date: 24-Jun-2018 11:04:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	251753	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	497693	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	464657	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	94	305229	50.0	49.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	96	190840	50.0	47.7	
$ 5 Toluene-d8 (Surr)	98	6.559	6.559	0.000	92	1228546	50.0	53.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	383559	50.0	49.4	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	349501	50.0	44.0	
12 Chloromethane	50	1.985	1.985	0.000	99	273003	50.0	42.1	
13 Vinyl chloride	62	2.076	2.076	0.000	98	263907	50.0	41.5	
151 Butadiene	54	2.082	2.082	0.000	89	281487	50.0	39.9	
14 Bromomethane	94	2.362	2.362	0.000	91	132541	50.0	37.0	
15 Chloroethane	64	2.417	2.417	0.000	100	107492	50.0	37.4	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	330622	50.0	42.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	368016	50.0	44.0	
18 Ethyl ether	59	2.769	2.769	0.000	87	241759	50.0	49.8	
20 Acrolein	56	2.922	2.922	0.000	100	300813	250.0	234.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.958	0.000	92	294109	50.0	45.0	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	317313	50.0	48.8	
23 Acetone	43	3.031	3.031	0.000	100	641769	250.0	242.9	
25 Iodomethane	142	3.128	3.128	0.000	99	541200	50.0	46.5	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1047287	50.0	49.9	
27 Methyl acetate	43	3.244	3.244	0.000	94	609250	100.0	123.6	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	87	479929	50.0	46.2	
30 Methylene Chloride	84	3.353	3.353	0.000	89	370762	50.0	48.2	
31 2-Methyl-2-propanol	59	3.414	3.414	0.000	99	414594	500.0	537.7	
32 Methyl tert-butyl ether	73	3.506	3.506	0.000	94	903882	50.0	39.9	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	370474	50.0	49.5	
33 Acrylonitrile	53	3.554	3.554	0.000	99	1496939	500.0	604.2	
35 Hexane	57	3.670	3.670	0.000	90	570835	50.0	48.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.852	0.000	97	1234761	100.0	89.3	
39 1,1-Dichloroethane	63	3.858	3.858	0.000	96	613990	50.0	48.0	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	59	455294	50.0	41.3	
43 2-Butanone (MEK)	43	4.296	4.296	0.000	98	1021433	250.0	297.0	
45 cis-1,2-Dichloroethene	96	4.302	4.302	0.000	79	392755	50.0	47.8	
48 Chlorobromomethane	128	4.509	4.509	0.000	93	175508	50.0	45.1	
49 Tetrahydrofuran	42	4.528	4.528	0.000	86	261823	100.0	124.6	
50 Chloroform	83	4.540	4.540	0.000	93	611251	50.0	45.7	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	479567	50.0	42.2	
52 Cyclohexane	56	4.710	4.710	0.000	87	528076	50.0	46.0	
54 1,1-Dichloropropene	75	4.801	4.801	0.000	98	501435	50.0	47.5	
55 Carbon tetrachloride	117	4.807	4.807	0.000	97	397316	50.0	41.6	
53 Isobutyl alcohol	43	4.868	4.868	0.000	93	497779	1250.0	1547.4	
57 Benzene	78	4.984	4.984	0.000	96	1424960	50.0	49.1	
58 1,2-Dichloroethane	62	5.020	5.020	0.000	97	458472	50.0	41.4	
59 n-Heptane	43	5.081	5.081	0.000	89	539898	50.0	47.5	
62 Trichloroethene	95	5.495	5.495	0.000	98	361420	50.0	46.7	
64 Methylcyclohexane	83	5.635	5.635	0.000	87	620263	50.0	45.5	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	95	317919	50.0	46.9	
66 1,4-Dioxane	88	5.823	5.823	0.000	91	104374	1000.0	1409.7	
67 Dibromomethane	93	5.842	5.842	0.000	95	203312	50.0	44.0	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	422113	50.0	44.8	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	187351	50.0	45.0	
72 cis-1,3-Dichloropropene	75	6.334	6.334	0.000	97	506072	50.0	44.1	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.438	0.000	94	1726837	250.0	273.2	
74 Toluene	92	6.620	6.620	0.000	99	876915	50.0	49.2	
77 trans-1,3-Dichloropropene	75	6.845	6.845	0.000	96	468305	50.0	44.8	
75 Ethyl methacrylate	69	6.851	6.851	0.000	86	399584	50.0	44.3	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	239328	50.0	47.2	
81 Tetrachloroethene	166	7.137	7.137	0.000	98	385493	50.0	48.1	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	98	518328	50.0	48.3	
80 2-Hexanone	43	7.223	7.223	0.000	93	1414878	250.0	286.7	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	291231	50.0	46.1	
84 Ethylene Dibromide	107	7.569	7.569	0.000	98	301534	50.0	46.7	
87 Chlorobenzene	112	8.020	8.020	0.000	95	931461	50.0	48.3	
88 Ethylbenzene	91	8.086	8.086	0.000	98	1554504	50.0	48.4	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	283470	50.0	45.5	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	639981	50.0	47.4	
91 o-Xylene	106	8.634	8.634	0.000	96	585334	50.0	46.4	
92 Styrene	104	8.652	8.652	0.000	94	1035178	50.0	47.0	
95 Bromoform	173	8.920	8.920	0.000	97	192625	50.0	46.9	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1481467	50.0	48.9	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	80	383270	50.0	50.2	
101 Bromobenzene	156	9.388	9.388	0.000	91	397447	50.0	47.6	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	58	120432	50.0	48.0	
99 N-Propylbenzene	91	9.437	9.437	0.000	99	1769079	50.0	50.1	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	81	130487	50.0	49.9	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	365379	50.0	48.5	
102 1,3,5-Trimethylbenzene	105	9.607	9.607	0.000	94	1266813	50.0	48.5	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	397569	50.0	48.7	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	288036	50.0	48.2	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	1292084	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.143	0.000	94	1609547	50.0	49.0	
110 4-Isopropyltoluene	119	10.270	10.270	0.000	96	1362797	50.0	48.6	
111 1,3-Dichlorobenzene	146	10.301	10.301	0.000	97	748706	50.0	48.1	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	762215	50.0	47.7	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1220510	50.0	48.3	
116 1,2-Dichlorobenzene	146	10.733	10.733	0.000	98	664232	50.0	46.3	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.420	0.000	87	75785	50.0	51.6	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	426013	50.0	44.5	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	264386	50.0	45.8	
121 Naphthalene	128	12.266	12.266	0.000	97	1025262	50.0	45.9	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	384871	50.0	43.6	

Reagents:

8260 CORP mix_00127	Amount Added: 25.00	Units: uL	
GAS CORP mix_00287	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00040	Amount Added: 1.00	Units: uL	Run Reagent

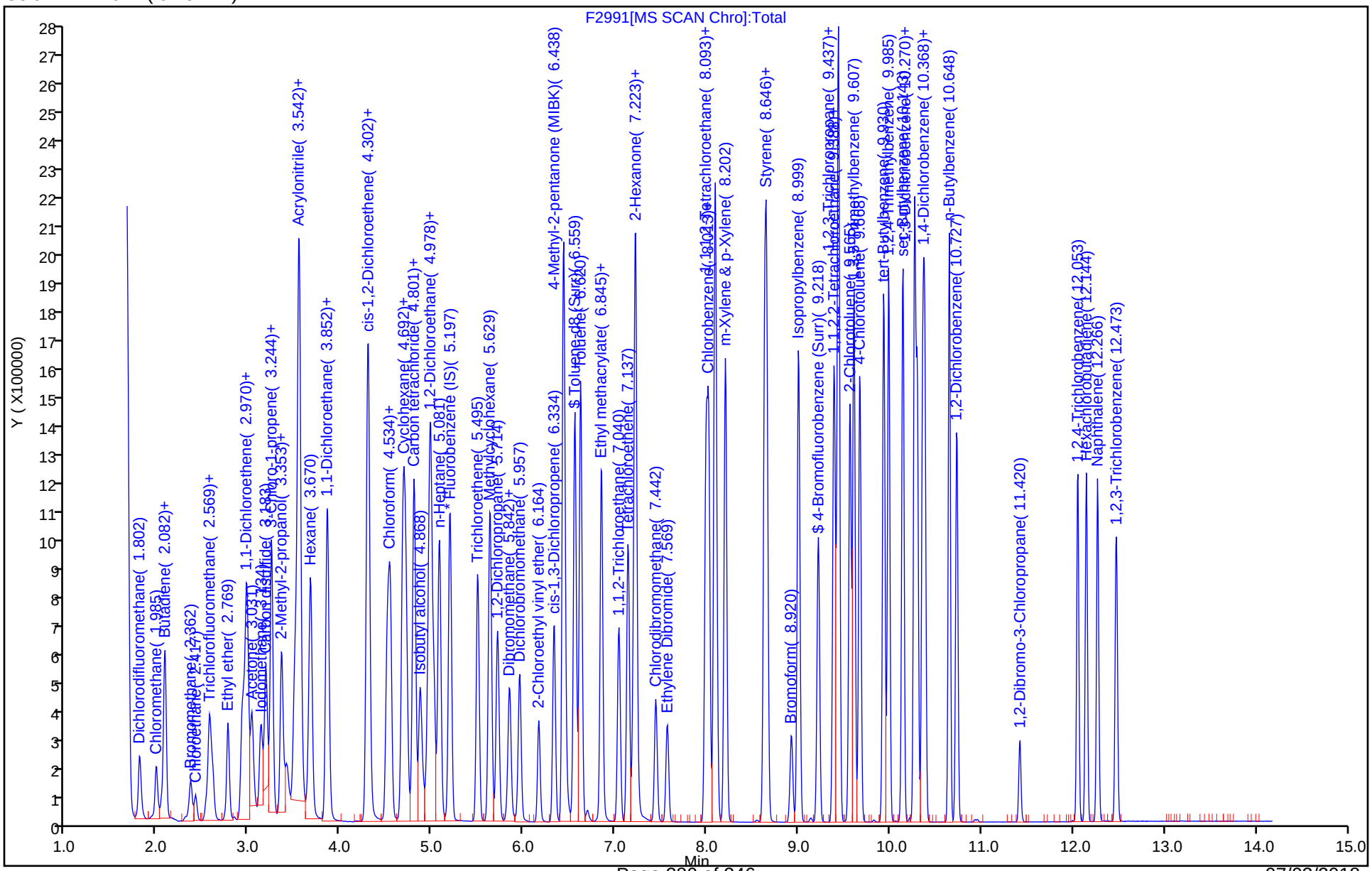
Report Date: 24-Jun-2018 11:04:14 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2991.D

Injection Date:	24-Jun-2018 09:04:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421976/2 Calibration Date: 06/27/2018 19:39

Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/20/2018 16:34

Lab File ID: S2879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.204	1.333	0.1000	27.7	25.0	10.7	50.0
Chloromethane	Ave	1.913	1.993	0.1000	26.0	25.0	4.2	20.0
Vinyl chloride	Ave	1.701	1.863	0.1000	27.4	25.0	9.5	20.0
Butadiene	Ave	1.774	1.853		26.1	25.0	4.5	20.0
Bromomethane	Ave	0.9114	0.9676	0.1000	26.5	25.0	6.2	50.0
Chloroethane	Ave	1.029	1.108	0.1000	26.9	25.0	7.6	50.0
Trichlorofluoromethane	Ave	1.612	1.789	0.1000	27.8	25.0	11.0	20.0
Dichlorofluoromethane	Ave	2.255	2.003		22.2	25.0	-11.2	20.0
Ethyl ether	Ave	1.434	1.737		30.3	25.0	21.2*	20.0
Acrolein	Ave	0.2746	0.3263		149	125	18.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Lin1		1.175	0.1000	29.9	25.0	19.8	20.0
1,1-Dichloroethene	Ave	1.104	1.300	0.1000	29.4	25.0	17.7	20.0
Acetone	Ave	0.4810	0.5874	0.1000	153	125	22.1	50.0
Iodomethane	Ave	1.615	1.976		30.6	25.0	22.3*	20.0
Carbon disulfide	Ave	3.520	3.983	0.1000	28.3	25.0	13.2	20.0
Allyl chloride	Ave	2.141	2.250		26.3	25.0	5.1	20.0
Methyl acetate	Ave	1.263	1.584	0.1000	62.7	50.0	25.4	50.0
Methylene Chloride	Lin1		1.619	0.1000	27.9	25.0	11.7	20.0
2-Methyl-2-propanol	Ave	0.1630	0.2057		315	250	26.2	50.0
Methyl tert-butyl ether	Ave	4.138	4.848	0.1000	29.3	25.0	17.1	20.0
trans-1,2-Dichloroethene	Ave	1.264	1.486	0.1000	29.4	25.0	17.6	20.0
Acrylonitrile	Ave	0.6712	0.8903		332	250	32.6*	20.0
Hexane	Ave	2.330	2.995		32.1	25.0	28.5*	20.0
1,1-Dichloroethane	Ave	2.662	3.090	0.2000	29.0	25.0	16.1	20.0
Vinyl acetate	Ave	3.070	4.036		65.7	50.0	31.5*	20.0
2,2-Dichloropropane	Ave	1.475	1.545		26.2	25.0	4.7	20.0
cis-1,2-Dichloroethene	Ave	1.452	1.678	0.1000	28.9	25.0	15.6	20.0
2-Butanone (MEK)	Ave	0.7386	0.9815	0.1000	166	125	32.9*	20.0
Chlorobromomethane	Ave	0.6939	0.8185		29.5	25.0	18.0	20.0
Tetrahydrofuran	Ave	0.5075	0.6645		65.5	50.0	30.9*	20.0
Chloroform	Ave	2.323	2.610	0.2000	28.1	25.0	12.4	20.0
1,1,1-Trichloroethane	Ave	1.731	1.945	0.1000	28.1	25.0	12.4	20.0
Cyclohexane	Ave	2.329	2.996	0.1000	32.2	25.0	28.6*	20.0
Carbon tetrachloride	Ave	1.451	1.699	0.1000	29.3	25.0	17.1	20.0
1,1-Dichloropropene	Ave	1.764	2.057		29.1	25.0	16.6	20.0
Benzene	Ave	5.304	6.096	0.5000	28.7	25.0	14.9	20.0
Isobutyl alcohol	Ave	0.0686	0.0982		895	625	43.1	50.0
1,2-Dichloroethane	Ave	2.143	2.460	0.1000	28.7	25.0	14.8	20.0
n-Heptane	Ave	2.167	2.867		33.1	25.0	32.3*	20.0
Trichloroethene	Ave	1.368	1.543	0.2000	28.2	25.0	12.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421976/2 Calibration Date: 06/27/2018 19:39

Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/20/2018 16:34

Lab File ID: S2879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.084	2.577	0.1000	30.9	25.0	23.7*	20.0
1,2-Dichloropropane	Ave	1.600	1.756	0.1000	27.4	25.0	9.7	20.0
Dibromomethane	Ave	0.8353	0.9871	0.1000	29.5	25.0	18.2	20.0
1,4-Dioxane	Lin1		0.0105		940	500	88.0*	50.0
Bromodichloromethane	Ave	1.609	1.937	0.2000	30.1	25.0	20.4*	20.0
2-Chloroethyl vinyl ether	Ave	1.068	1.278		29.9	25.0	19.7	20.0
cis-1,3-Dichloropropene	Ave	2.023	2.315	0.2000	28.6	25.0	14.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.7981	0.9269	0.1000	145	125	16.1	20.0
Toluene	Ave	1.662	1.775	0.4000	26.7	25.0	6.8	20.0
trans-1,3-Dichloropropene	Ave	0.9155	1.019	0.1000	27.8	25.0	11.3	20.0
Ethyl methacrylate	Ave	0.8975	1.037		28.9	25.0	15.6	20.0
1,1,2-Trichloroethane	Ave	0.5007	0.5363	0.1000	26.8	25.0	7.1	20.0
Tetrachloroethene	Ave	0.7017	0.7613	0.2000	27.1	25.0	8.5	20.0
1,3-Dichloropropane	Ave	1.056	1.154		27.3	25.0	9.3	20.0
2-Hexanone	Ave	0.5875	0.6845	0.1000	146	125	16.5	20.0
Dibromochloromethane	Ave	0.5694	0.6428	0.1000	28.2	25.0	12.9	20.0
1,2-Dibromoethane	Ave	0.6308	0.6889		27.3	25.0	9.2	20.0
Chlorobenzene	Ave	1.821	1.945	0.5000	26.7	25.0	6.8	20.0
Ethylbenzene	Ave	2.995	3.267	0.1000	27.3	25.0	9.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.5890	0.6368		27.0	25.0	8.1	20.0
m,p-Xylene	Ave	1.218	1.285	0.1000	26.4	25.0	5.5	20.0
o-Xylene	Ave	1.156	1.232	0.3000	26.6	25.0	6.5	20.0
Styrene	Ave	1.985	2.192	0.3000	27.6	25.0	10.5	20.0
Bromoform	Ave	0.3637	0.4157	0.1000	28.6	25.0	14.3	50.0
Isopropylbenzene	Ave	3.152	3.524	0.1000	28.0	25.0	11.8	20.0
Bromobenzene	Ave	0.7974	0.8717		27.3	25.0	9.3	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8564	1.002	0.3000	29.3	25.0	17.0	20.0
N-Propylbenzene	Ave	3.654	4.156		28.4	25.0	13.7	20.0
1,2,3-Trichloropropane	Ave	0.2819	0.3514		31.2	25.0	24.6*	20.0
trans-1,4-Dichloro-2-butene	Lin1		0.3282		26.8	25.0	7.3	50.0
2-Chlorotoluene	Ave	0.7865	0.8462		26.9	25.0	7.6	20.0
1,3,5-Trimethylbenzene	Ave	2.734	2.970		27.2	25.0	8.6	20.0
4-Chlorotoluene	Ave	0.8059	0.8820		27.4	25.0	9.4	20.0
tert-Butylbenzene	Ave	0.5829	0.6514		27.9	25.0	11.7	20.0
1,2,4-Trimethylbenzene	Ave	2.793	3.076		27.5	25.0	10.2	20.0
sec-Butylbenzene	Ave	3.279	3.734		28.5	25.0	13.9	20.0
1,3-Dichlorobenzene	Ave	1.549	1.675	0.6000	27.0	25.0	8.1	20.0
4-Isopropyltoluene	Ave	2.822	3.255		28.8	25.0	15.3	20.0
1,4-Dichlorobenzene	Ave	1.580	1.703	0.5000	26.9	25.0	7.8	20.0
n-Butylbenzene	Ave	2.545	3.013		29.6	25.0	18.4	20.0
1,2-Dichlorobenzene	Ave	1.525	1.620	0.4000	26.6	25.0	6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Lab Sample ID: CCVIS 480-421976/2 Calibration Date: 06/27/2018 19:39

Instrument ID: HP5973S Calib Start Date: 06/20/2018 13:51

GC Column: ZB-624 (20) ID: 0.18(mm) Calib End Date: 06/20/2018 16:34

Lab File ID: S2879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1662	0.2051	0.0500	30.9	25.0	23.4	50.0
1,2,4-Trichlorobenzene	Ave	1.085	1.161	0.2000	26.8	25.0	7.1	20.0
Hexachlorobutadiene	Ave	0.5186	0.5936		28.6	25.0	14.4	20.0
Naphthalene	Ave	2.965	3.426		28.9	25.0	15.6	20.0
1,2,3-Trichlorobenzene	Ave	1.000	1.122		28.0	25.0	12.2	20.0
Dibromofluoromethane (Surr)	Ave	1.197	1.346		28.1	25.0	12.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7832	0.8845		28.2	25.0	12.9	20.0
Toluene-d8 (Surr)	Ave	2.435	2.464		25.3	25.0	1.2	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7477	0.7470		25.0	25.0	-0.1	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2879.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 27-Jun-2018 19:39:30 ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0072684-002
Operator ID: kn Instrument ID: HP5973S
Sublist: chrom-S-8260*sub26

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 09:56:23 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: nowakk Date: 27-Jun-2018 20:30:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	163951	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	85	355824	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.888	10.888	0.000	78	323237	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	66	220658	25.0	28.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	145021	25.0	28.2	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	90	876852	25.0	25.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	265797	25.0	25.0	
10 Dichlorodifluoromethane	85	1.288	1.288	0.000	98	218558	25.0	27.7	
12 Chloromethane	50	1.470	1.470	0.000	89	326714	25.0	26.0	
13 Vinyl chloride	62	1.549	1.549	0.000	93	305441	25.0	27.4	
151 Butadiene	54	1.586	1.586	0.000	82	303811	25.0	26.1	
14 Bromomethane	94	1.878	1.878	0.000	89	158646	25.0	26.5	
15 Chloroethane	64	1.975	1.975	0.000	96	181617	25.0	26.9	
17 Trichlorofluoromethane	101	2.194	2.194	0.000	83	293275	25.0	27.8	
16 Dichlorofluoromethane	67	2.200	2.200	0.000	96	328342	25.0	22.2	
18 Ethyl ether	59	2.498	2.498	0.000	94	284817	25.0	30.3	
20 Acrolein	56	2.693	2.693	0.000	97	267502	125.0	148.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.699	2.699	0.000	53	192616	25.0	29.9	M
22 1,1-Dichloroethene	96	2.730	2.730	0.000	93	213146	25.0	29.4	
23 Acetone	43	2.851	2.851	0.000	98	481507	125.0	152.6	
25 Iodomethane	142	2.894	2.894	0.000	97	323899	25.0	30.6	
26 Carbon disulfide	76	2.924	2.924	0.000	99	653086	25.0	28.3	
28 3-Chloro-1-propene	41	3.095	3.095	0.000	87	368866	25.0	26.3	
27 Methyl acetate	43	3.149	3.149	0.000	95	519247	50.0	62.7	
30 Methylene Chloride	84	3.259	3.259	0.000	92	265445	25.0	27.9	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	92	337165	250.0	315.5	
32 Methyl tert-butyl ether	73	3.454	3.454	0.000	92	794811	25.0	29.3	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	89	243582	25.0	29.4	
33 Acrylonitrile	53	3.545	3.545	0.000	98	1459668	250.0	331.6	
35 Hexane	57	3.660	3.660	0.000	85	491037	25.0	32.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 1,1-Dichloroethane	63	3.898	3.898	0.000	96	506634	25.0	29.0	
37 Vinyl acetate	43	3.952	3.952	0.000	97	1323252	50.0	65.7	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	93	253342	25.0	26.2	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	81	275182	25.0	28.9	
43 2-Butanone (MEK)	43	4.500	4.500	0.000	94	804608	125.0	166.1	
48 Chlorobromomethane	128	4.701	4.701	0.000	97	134188	25.0	29.5	
49 Tetrahydrofuran	42	4.713	4.713	0.000	88	217902	50.0	65.5	
50 Chloroform	83	4.774	4.774	0.000	93	427857	25.0	28.1	
51 1,1,1-Trichloroethane	97	4.883	4.883	0.000	84	318888	25.0	28.1	
52 Cyclohexane	56	4.883	4.883	0.000	90	491130	25.0	32.2	
55 Carbon tetrachloride	117	5.017	5.017	0.000	91	278560	25.0	29.3	
54 1,1-Dichloropropene	75	5.035	5.035	0.000	96	337200	25.0	29.1	
57 Benzene	78	5.242	5.242	0.000	96	999446	25.0	28.7	
53 Isobutyl alcohol	43	5.273	5.273	0.000	95	402487	625.0	894.6	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	79	403353	25.0	28.7	
59 n-Heptane	43	5.413	5.413	0.000	89	470009	25.0	33.1	
62 Trichloroethene	95	5.851	5.851	0.000	97	253047	25.0	28.2	
64 Methylcyclohexane	83	5.960	5.960	0.000	94	422460	25.0	30.9	
65 1,2-Dichloropropane	63	6.100	6.100	0.000	95	287837	25.0	27.4	
67 Dibromomethane	93	6.234	6.234	0.000	92	161842	25.0	29.5	
66 1,4-Dioxane	88	6.246	6.246	0.000	39	74933	500.0	940.0	
68 Dichlorobromomethane	83	6.392	6.392	0.000	98	317555	25.0	30.1	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	92	209569	25.0	29.9	
72 cis-1,3-Dichloropropene	75	6.806	6.806	0.000	89	379538	25.0	28.6	
73 4-Methyl-2-pentanone (MIBK	43	6.952	6.952	0.000	94	1649026	125.0	145.2	
74 Toluene	92	7.092	7.092	0.000	95	631432	25.0	26.7	
77 trans-1,3-Dichloropropene	75	7.378	7.378	0.000	95	362698	25.0	27.8	
75 Ethyl methacrylate	69	7.414	7.414	0.000	87	369088	25.0	28.9	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	190844	25.0	26.8	
81 Tetrachloroethene	166	7.621	7.621	0.000	85	270890	25.0	27.1	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	92	410552	25.0	27.3	
80 2-Hexanone	43	7.791	7.791	0.000	91	1217866	125.0	145.6	
83 Chlorodibromomethane	129	7.962	7.962	0.000	89	228717	25.0	28.2	
84 Ethylene Dibromide	107	8.071	8.071	0.000	100	245130	25.0	27.3	
87 Chlorobenzene	112	8.539	8.539	0.000	94	692058	25.0	26.7	
88 Ethylbenzene	91	8.631	8.631	0.000	98	1162439	25.0	27.3	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.637	0.000	46	226595	25.0	27.0	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	457255	25.0	26.4	
91 o-Xylene	106	9.178	9.178	0.000	98	438278	25.0	26.6	
92 Styrene	104	9.215	9.215	0.000	93	780103	25.0	27.6	
95 Bromoform	173	9.464	9.464	0.000	95	147923	25.0	28.6	
94 Isopropylbenzene	105	9.562	9.562	0.000	96	1139095	25.0	28.0	
101 Bromobenzene	156	9.908	9.908	0.000	95	281776	25.0	27.3	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	76	323897	25.0	29.3	
99 N-Propylbenzene	91	9.987	9.987	0.000	93	1343214	25.0	28.4	
100 1,2,3-Trichloropropane	110	10.000	10.000	0.000	63	113577	25.0	31.2	
98 trans-1,4-Dichloro-2-buten	53	10.018	10.018	0.000	83	106071	25.0	26.8	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	273512	25.0	26.9	
102 1,3,5-Trimethylbenzene	105	10.158	10.158	0.000	77	959881	25.0	27.2	
105 4-Chlorotoluene	126	10.200	10.200	0.000	80	285090	25.0	27.4	
106 tert-Butylbenzene	134	10.474	10.474	0.000	92	210541	25.0	27.9	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	73	994324	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	10.687	10.687	0.000	93	1207085	25.0	28.5	
110 4-Isopropyltoluene	119	10.827	10.827	0.000	95	1052138	25.0	28.8	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	72	541421	25.0	27.0	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	94	550456	25.0	26.9	
115 n-Butylbenzene	91	11.210	11.210	0.000	98	973969	25.0	29.6	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	95	523759	25.0	26.6	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	72	66304	25.0	30.9	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	375379	25.0	26.8	
120 Hexachlorobutadiene	225	12.768	12.768	0.000	96	191860	25.0	28.6	
121 Naphthalene	128	12.877	12.877	0.000	97	1107529	25.0	28.9	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	95	362644	25.0	28.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added: 12.50	Units: uL	
GAS CORP mix_00288	Amount Added: 12.50	Units: uL	
S_8260_IS_00292	Amount Added: 1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added: 1.00	Units: uL	Run Reagent

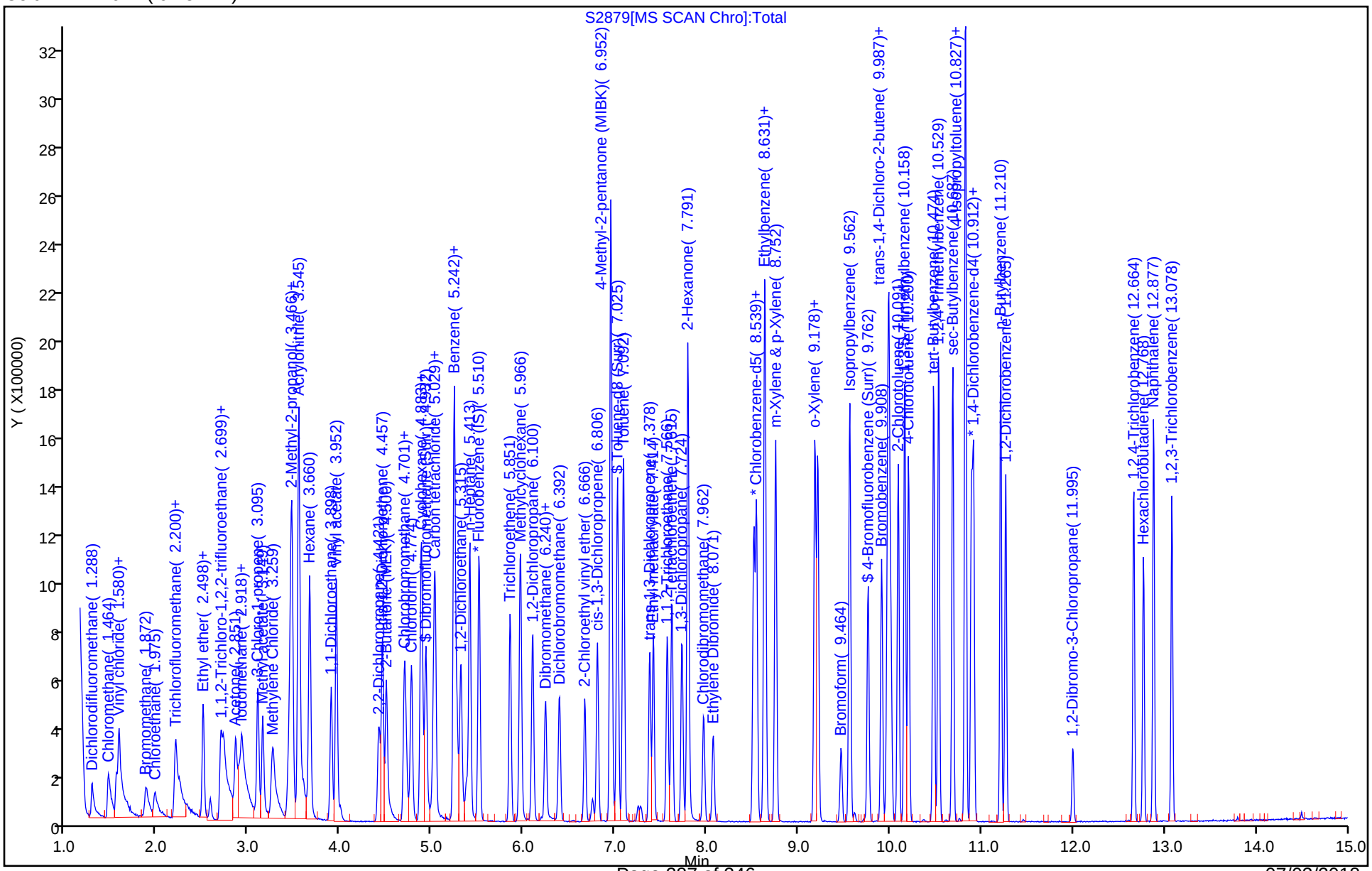
Report Date: 28-Jun-2018 09:56:24 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2879.D

Injection Date:	27-Jun-2018 19:39:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

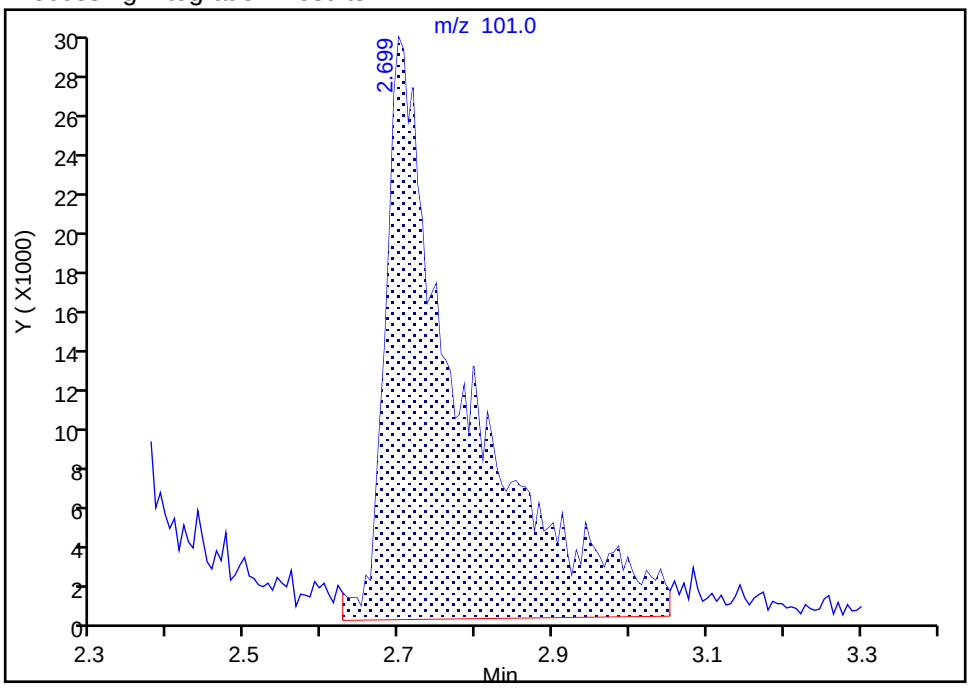
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2879.D
Injection Date: 27-Jun-2018 19:39:30 Instrument ID: HP5973S
Lims ID: CCVIS
Client ID:
Operator ID: kn ALS Bottle#: 2 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

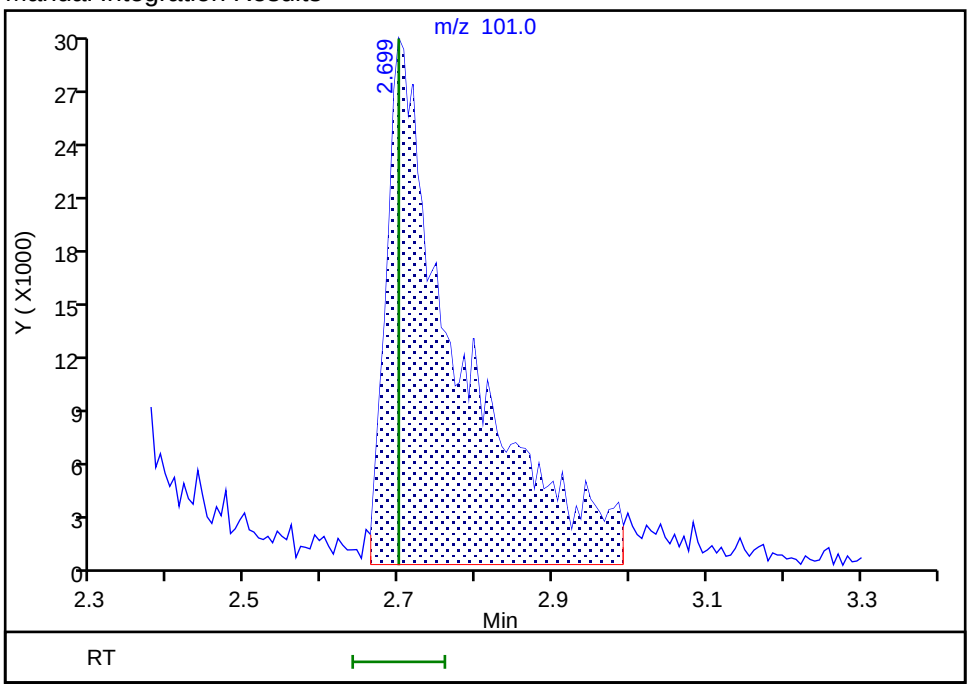
Processing Integration Results

RT: 2.70
Area: 207108
Amount: 32.163401
Amount Units: ug/L



Manual Integration Results

RT: 2.70
Area: 192616
Amount: 29.938786
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 09:52:16
Audit Action: Manually Integrated Audit Reason: Poor chromatography

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-May-2018 12:17:30	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0071332-004				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	09-May-2018 10:46:48	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK007				
First Level Reviewer: cwiklinc		Date:	09-May-2018 10:46:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.339	5.339	0.000	0	186108	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

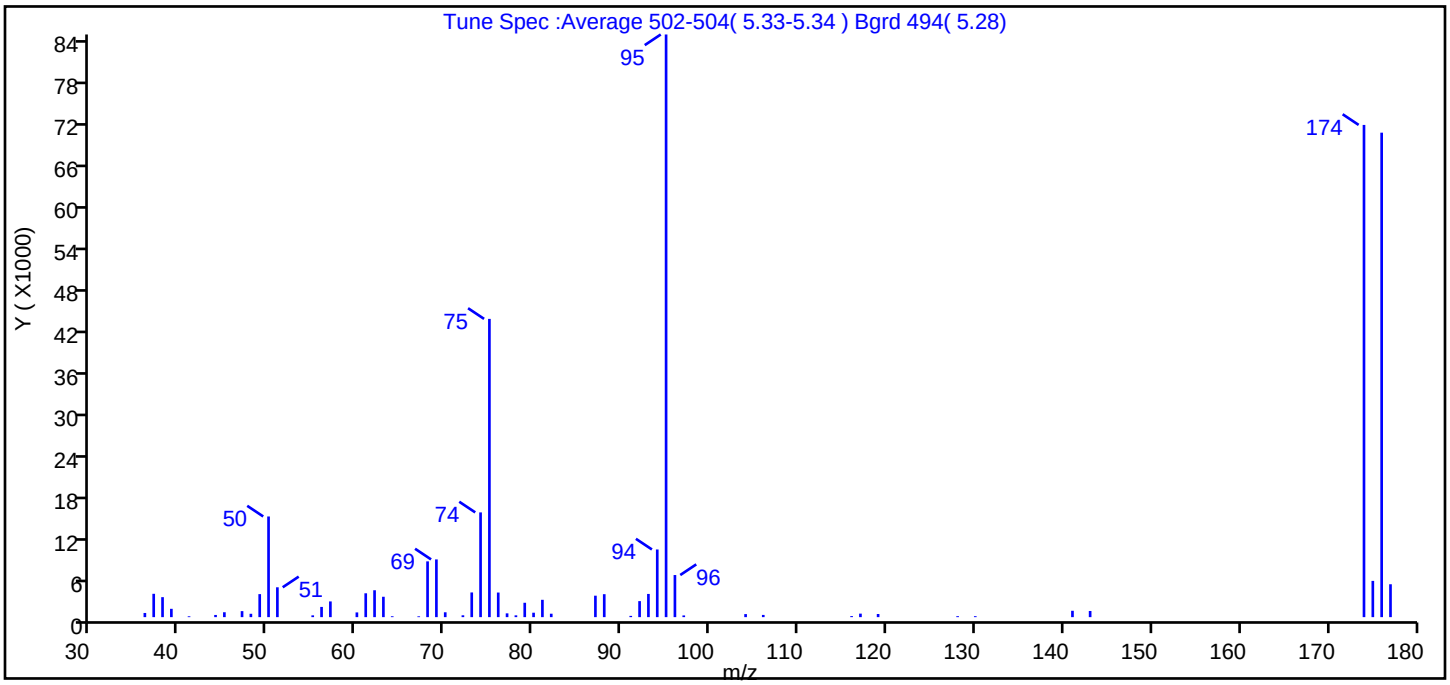
BFB_WRK_00069 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D
Injection Date: 08-May-2018 12:17:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.5
175	5 to 9% of m/z 174	6.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.1 (98.4)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 08-May-2018 12:17:30
Spectrum: Tune Spec :Average 502-504(5.33-5.34) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	607	60.00	688	78.00	263	106.00	324
37.00	3399	61.00	3473	79.00	2093	116.00	151
38.00	2910	62.00	3915	80.00	645	117.00	512
39.00	1213	63.00	2967	81.00	2524	119.00	457
41.00	122	64.00	127	82.00	500	128.00	139
44.00	318	67.00	117	87.00	3123	130.00	138
45.00	714	68.00	8121	88.00	3343	141.00	927
47.00	876	69.00	8405	91.00	184	143.00	896
48.00	490	70.00	708	92.00	2334	174.00	71664
49.00	3351	72.00	269	93.00	3379	175.00	5278
50.00	14657	73.00	3596	94.00	9852	176.00	70536
51.00	4347	74.00	15251	95.00	84832	177.00	4789
55.00	261	75.00	43424	96.00	6131		
56.00	1488	76.00	3582	97.00	249		
57.00	2289	77.00	552	104.00	445		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2990.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-Jun-2018 08:32:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0072575-002				
Operator ID:	AM	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	24-Jun-2018 08:36:13	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK021				
First Level Reviewer: moffata		Date:	24-Jun-2018 08:36:13		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.345	5.345	0.000	0	133220	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

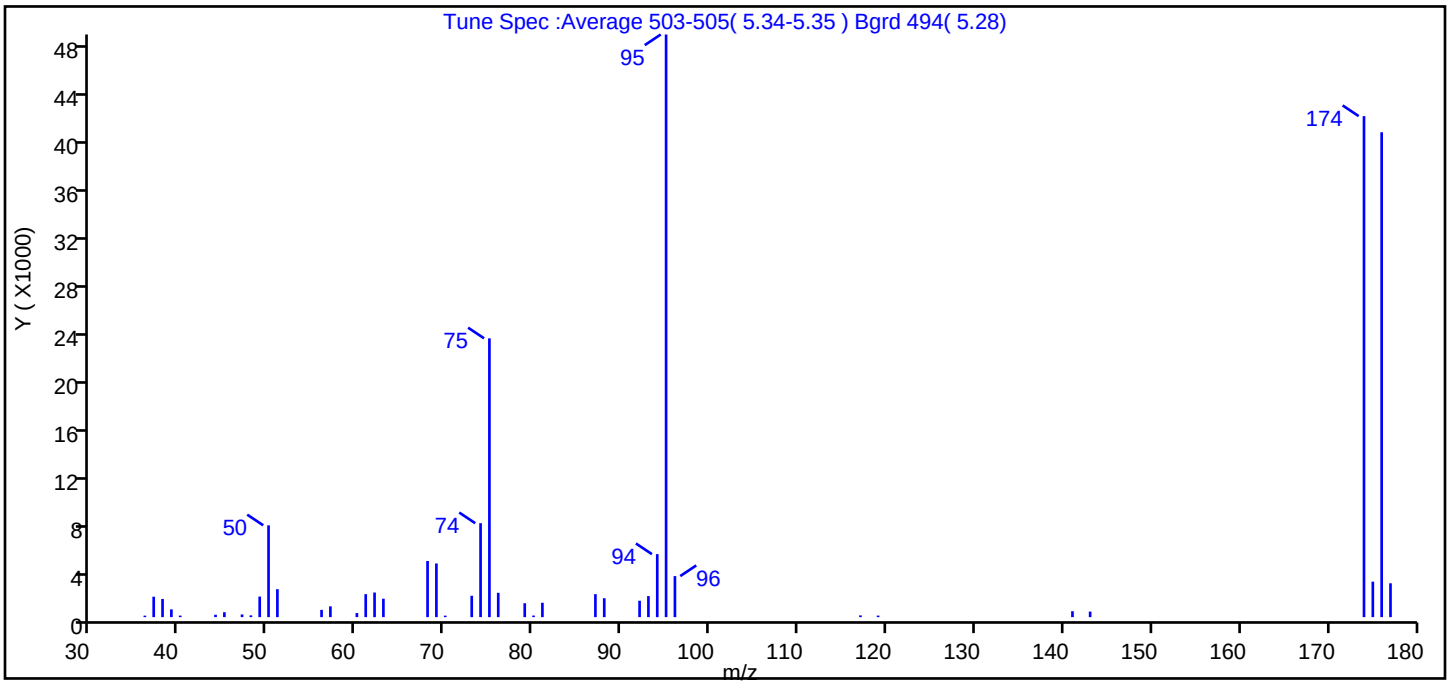
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2990.D
Injection Date: 24-Jun-2018 08:32:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.8
75	30 to 60% of m/z 95	47.9
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.0
175	5 to 9% of m/z 174	6.1 (7.1)
176	Greater than 95% but less than 101% of m/z 174	83.2 (96.8)
177	5 to 9% of m/z 176	5.8 (7.0)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2990.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 24-Jun-2018 08:32:30
Spectrum: Tune Spec :Average 503-505(5.34-5.35) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 43

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	125	51.00	2339	74.00	7863	95.00	48768
37.00	1711	56.00	609	75.00	23336	96.00	3436
38.00	1523	57.00	903	76.00	2036	117.00	147
39.00	653	60.00	342	79.00	1164	119.00	131
40.00	130	61.00	1925	80.00	134	141.00	496
44.00	200	62.00	2061	81.00	1204	143.00	464
45.00	412	63.00	1541	87.00	1924	174.00	41936
47.00	225	68.00	4701	88.00	1584	175.00	2972
48.00	149	69.00	4492	92.00	1372	176.00	40584
49.00	1723	70.00	126	93.00	1763	177.00	2834
50.00	7686	73.00	1790	94.00	5273		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	20-Jun-2018 12:54:30	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0072482-003				
Operator ID:	LH/ZV	Instrument ID:	HP5973S		
Method:	\\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	21-Jun-2018 14:25:32	Calib Date:	20-Jun-2018 20:51:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK016				
First Level Reviewer: HillL		Date:	20-Jun-2018 13:13:21		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.844	3.844	0.000	0	365310	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

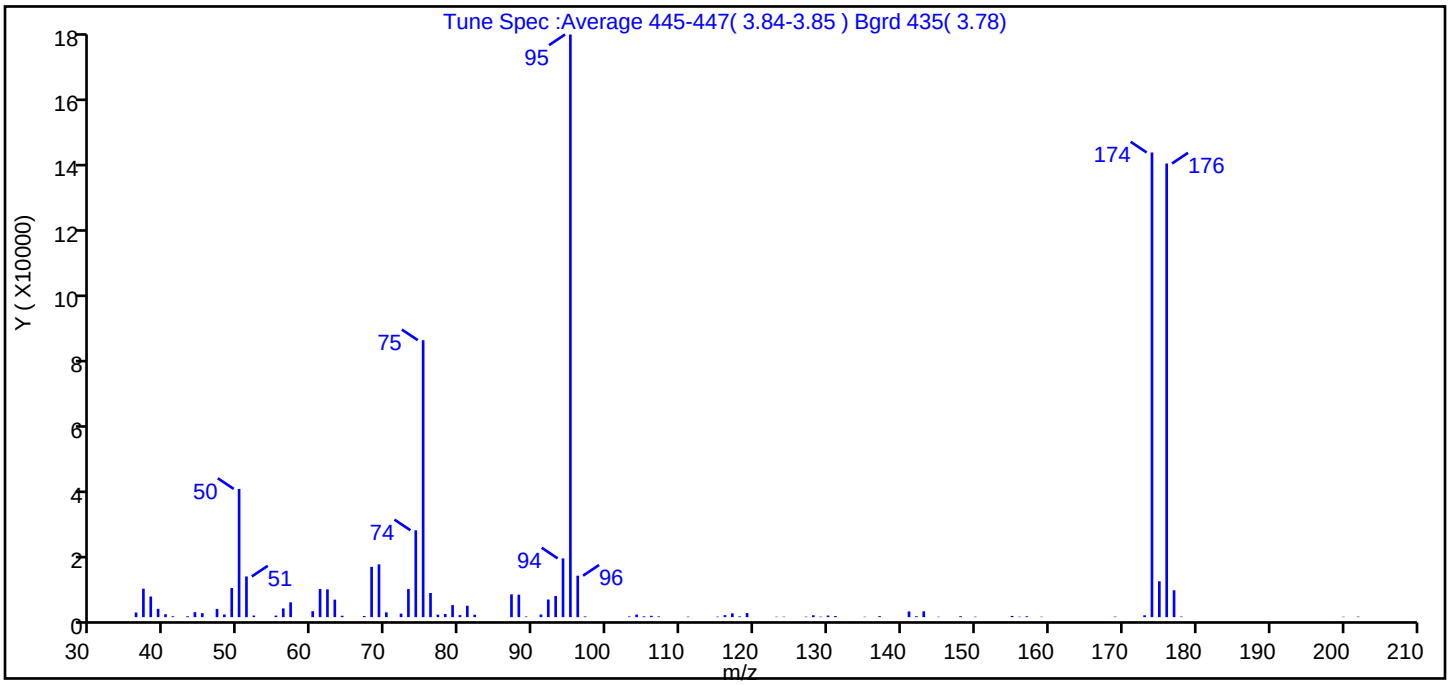
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D
Injection Date: 20-Jun-2018 12:54:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: LH/ZV ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	79.8
175	5 to 9% of m/z 174	6.2 (7.7)
176	Greater than 95% but less than 101% of m/z 174	77.9 (97.6)
177	5 to 9% of m/z 176	4.6 (5.9)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2504.D\S-8260.rslt\spectra.d
Injection Date: 20-Jun-2018 12:54:30
Spectrum: Tune Spec :Average 445-447(3.84-3.85) Bgrd 435(3.78)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1407	64.00	431	94.00	17720	135.00	127
37.00	8584	67.00	332	95.00	175744	137.00	293
38.00	6219	68.00	15169	96.00	12510	141.00	1718
39.00	2493	69.00	15927	97.00	220	142.00	276
40.00	882	70.00	1443	103.00	214	143.00	1753
41.00	259	72.00	1061	104.00	774	145.00	120
43.00	272	73.00	8463	105.00	254	148.00	274
44.00	1512	74.00	26200	106.00	401	150.00	143
45.00	1201	75.00	83536	107.00	215	155.00	371
47.00	2483	76.00	7284	111.00	150	156.00	135
48.00	793	77.00	743	115.00	152	157.00	266
49.00	8783	78.00	943	116.00	614	159.00	122
50.00	38672	79.00	3636	117.00	1150	169.00	161
51.00	12273	80.00	618	118.00	217	173.00	560
52.00	492	81.00	3438	119.00	1234	174.00	140160
55.00	464	82.00	722	123.00	123	175.00	10816
56.00	2625	87.00	6872	124.00	134	176.00	136832
57.00	4479	88.00	6780	127.00	144	177.00	8108
60.00	1791	89.00	186	128.00	567	178.00	172
61.00	8484	91.00	806	129.00	141	200.00	119
62.00	8375	92.00	5315	130.00	491	202.00	159
63.00	5273	93.00	6372	131.00	333		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2878.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	27-Jun-2018 19:06:30	ALS Bottle#:	1	Worklist Smp#:	1
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0072684-001				
Operator ID:	kn	Instrument ID:	HP5973S		
Method:	\\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	28-Jun-2018 09:51:31	Calib Date:	20-Jun-2018 20:51:30		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK009				
First Level Reviewer: carrolln		Date:	28-Jun-2018 09:51:31		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
$ 61 BFB	95	3.844	3.844	0.000	0	319600	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

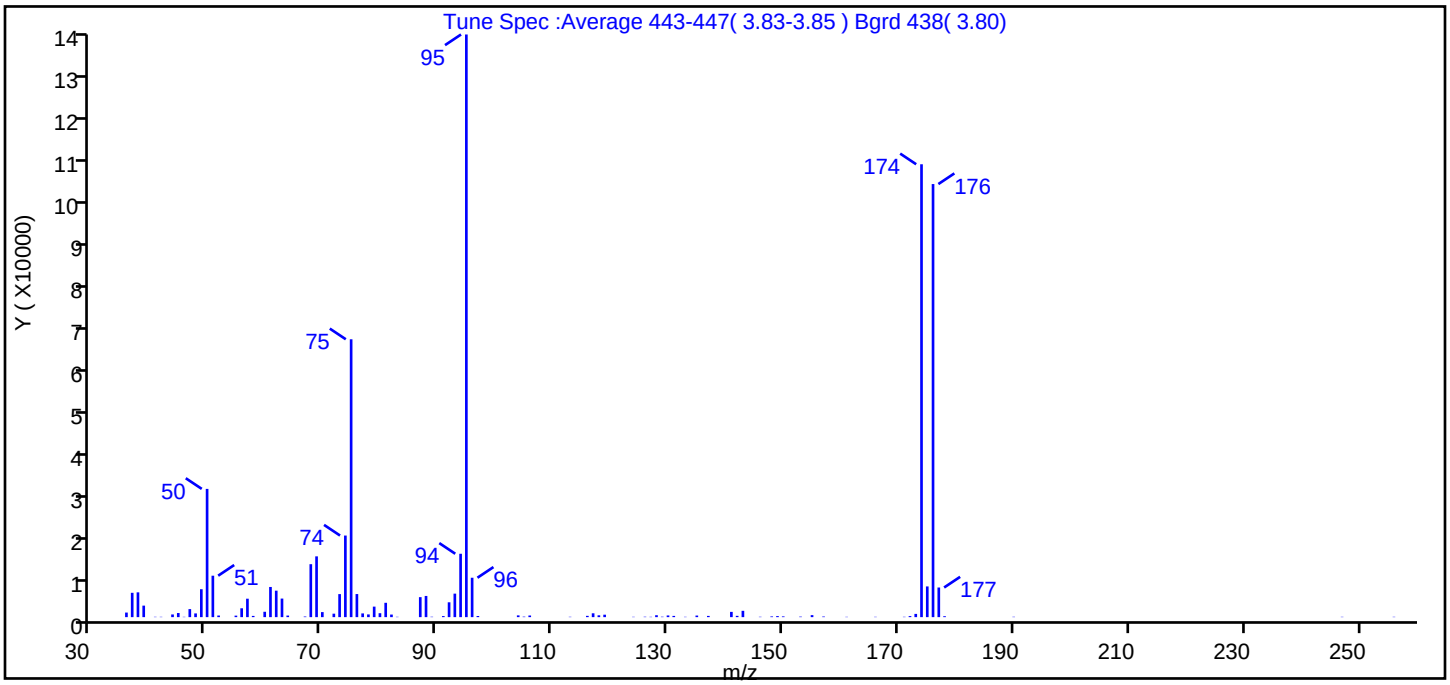
BFB_WRK_00071 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2878.D
Injection Date: 27-Jun-2018 19:06:30 Instrument ID: HP5973S
Lims ID: BFB
Client ID:
Operator ID: kn ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.0
75	30 to 60% of m/z 95	47.7
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	77.7
175	5 to 9% of m/z 174	5.3 (6.8)
176	Greater than 95% but less than 101% of m/z 174	74.3 (95.6)
177	5 to 9% of m/z 176	5.1 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2878.D\S-8260.rslt\spectra.d
Injection Date: 27-Jun-2018 19:06:30
Spectrum: Tune Spec :Average 443-447(3.83-3.85) Bgrd 438(3.80)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 91

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1030	64.00	354	94.00	14236	142.00	291
37.00	5466	67.00	138	95.00	130880	143.00	1421
38.00	5571	68.00	11895	96.00	8851	146.00	84
39.00	2586	69.00	13654	97.00	254	148.00	162
41.00	76	70.00	1131	104.00	395	149.00	234
42.00	73	72.00	780	105.00	112	150.00	164
44.00	605	73.00	5176	106.00	366	153.00	117
45.00	924	74.00	18328	113.00	79	155.00	451
46.00	70	75.00	62416	116.00	290	157.00	137
47.00	1806	76.00	5187	117.00	865	161.00	70
48.00	836	77.00	839	118.00	412	166.00	73
49.00	6271	78.00	611	119.00	549	171.00	78
50.00	28808	79.00	2363	124.00	73	172.00	236
51.00	9309	80.00	885	126.00	95	173.00	729
52.00	363	81.00	3223	127.00	72	174.00	101728
55.00	339	82.00	582	128.00	430	175.00	6900
56.00	1990	83.00	73	129.00	99	176.00	97280
57.00	4142	87.00	4491	130.00	378	177.00	6657
58.00	277	88.00	4760	131.00	277	178.00	205
60.00	1207	89.00	89	133.00	74	190.00	81
61.00	6778	91.00	236	135.00	357	247.00	73
62.00	5947	92.00	3334	137.00	279	256.00	75
63.00	4173	93.00	5280	141.00	1183		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-421273/2-A

Matrix: Solid | Lab File ID: F2995.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/24/2018 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-93-3	2-Butanone (MEK)	ND		25	1.8
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
67-64-1	Acetone	ND		25	4.2
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
56-23-5	Carbon tetrachloride	ND		5.0	0.48
71-43-2	Benzene	ND		5.0	0.25
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-25-2	Bromoform	ND		5.0	2.5
75-00-3	Chloroethane	ND		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-66-3	Chloroform	ND		5.0	0.31
591-78-6	2-Hexanone	ND		25	2.5
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
75-27-4	Bromodichloromethane	ND		5.0	0.67
108-90-7	Chlorobenzene	ND		5.0	0.66
100-41-4	Ethylbenzene	ND		5.0	0.35
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
75-09-2	Methylene Chloride	ND		5.0	2.3
110-82-7	Cyclohexane	ND		5.0	0.70
127-18-4	Tetrachloroethene	ND		5.0	0.67
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
108-88-3	Toluene	ND		5.0	0.38
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-421273/2-A

Matrix: Solid | Lab File ID: F2995.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/24/2018 10:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
79-01-6	Trichloroethene	ND		5.0	1.1
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
75-01-4	Vinyl chloride	ND		5.0	0.61
98-82-8	Isopropylbenzene	ND		5.0	0.75
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
79-20-9	Methyl acetate	ND		25	3.0
108-87-2	Methylcyclohexane	ND		5.0	0.76
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	97		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2995.D
Lims ID: MB 480-421273/2-A
Client ID:
Sample Type: MB
Inject. Date: 24-Jun-2018 10:55:30 ALS Bottle#: 7 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0072575-007
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 24-Jun-2018 14:53:26 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: moffata Date: 24-Jun-2018 14:53:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	247009	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	510858	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	452886	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.685	-0.006	93	294757	50.0	48.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	97	191642	50.0	48.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.001	93	1210887	50.0	51.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	380498	50.0	47.8	
10 Dichlorodifluoromethane	85		1.808					ND	
11 Chlorodifluoromethane	51		1.827					ND	
12 Chloromethane	50		1.985					ND	
13 Vinyl chloride	62		2.076					ND	
151 Butadiene	54		2.082					ND	
14 Bromomethane	94		2.362					ND	
15 Chloroethane	64		2.417					ND	
16 Dichlorofluoromethane	67		2.569					ND	
17 Trichlorofluoromethane	101		2.593					ND	
148 Ethanol	45		2.739					ND	
18 Ethyl ether	59		2.769					ND	
19 Propene oxide	58		2.861					ND	
20 Acrolein	56		2.922					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.958					ND	
22 1,1-Dichloroethene	96		2.976					ND	
23 Acetone	43		3.031					ND	
24 Isopropyl alcohol	45		3.116					ND	
25 Iodomethane	142		3.128					ND	
26 Carbon disulfide	76		3.183					ND	
27 Methyl acetate	43		3.244					ND	
28 3-Chloro-1-propene	41		3.244					ND	
29 Acetonitrile	40		3.281					ND	
31 2-Methyl-2-propanol	59		3.414					ND	
32 Methyl tert-butyl ether	73		3.506					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
34 trans-1,2-Dichloroethene	96		3.536					ND	
33 Acrylonitrile	53		3.554					ND	
35 Hexane	57	3.676	3.670	0.006	92	17670		1.53	
71 Epichlorohydrin	57		3.670					ND	U
134 Halothane	117		3.822					ND	
36 Isopropyl ether	45		3.822					ND	
37 Vinyl acetate	43		3.852					ND	
39 1,1-Dichloroethane	63		3.858					ND	
38 1,1-Dimethoxyethane	75		3.895					ND	
40 2-Chloro-1,3-butadiene	53		3.913					ND	
41 Tert-butyl ethyl ether	59		4.096					ND	
44 2,2-Dichloropropane	77		4.290					ND	
42 Ethyl acetate	43		4.290					ND	
43 2-Butanone (MEK)	43		4.296					ND	
45 cis-1,2-Dichloroethene	96		4.302					ND	
46 Propionitrile	54		4.388					ND	
47 Methacrylonitrile	41		4.479					ND	
48 Chlorobromomethane	128		4.509					ND	
49 Tetrahydrofuran	42		4.528					ND	
50 Chloroform	83		4.540					ND	
51 1,1,1-Trichloroethane	97		4.686					ND	
52 Cyclohexane	56		4.710					ND	
54 1,1-Dichloropropene	75		4.801					ND	
55 Carbon tetrachloride	117		4.807					ND	
53 Isobutyl alcohol	43		4.868					ND	
147 t-Amyl alcohol	59		4.941					ND	
152 Isooctane	57		4.947					ND	
57 Benzene	78		4.984					ND	
56 Tert-amyl methyl ether	73		5.002					ND	
58 1,2-Dichloroethane	62		5.020					ND	
59 n-Heptane	43		5.081					ND	
1 1,4-Difluorobenzene	114		5.264					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.386					ND	
60 n-Butanol	56		5.404					ND	
62 Trichloroethene	95		5.495					ND	
137 Ethyl acrylate	55		5.568					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.568					ND	
64 Methylcyclohexane	83		5.635					ND	
65 1,2-Dichloropropane	63		5.714					ND	
63 Methyl methacrylate	41		5.732					ND	
66 1,4-Dioxane	88		5.823					ND	
67 Dibromomethane	93		5.842					ND	
68 Dichlorobromomethane	83		5.957					ND	
69 2-Chloroethyl vinyl ether	63		6.164					ND	
70 2-Nitropropane	43		6.164					ND	
72 cis-1,3-Dichloropropene	75		6.334					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438					ND	
74 Toluene	92		6.620					ND	
76 2-Methylthiophene	97		6.754					ND	
77 trans-1,3-Dichloropropene	75		6.845					ND	
75 Ethyl methacrylate	69		6.851					ND	
78 3-Methylthiophene	97		6.906					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
79 1,1,2-Trichloroethane	83		7.040					ND	
81 Tetrachloroethene	166		7.137					ND	
82 1,3-Dichloropropane	76		7.204					ND	
80 2-Hexanone	43		7.223					ND	
155 n-Butyl acetate	43	7.326	7.302	0.024	88	5341		0.5026	
83 Chlorodibromomethane	129		7.442					ND	
84 Ethylene Dibromide	107		7.569					ND	
146 1-Chlorohexane	55		7.922					ND	
85 3-Chlorobenzotrifluoride	180		7.928					ND	
86 4-Chlorobenzotrifluoride	180		7.983					ND	
87 Chlorobenzene	112		8.020					ND	
88 Ethylbenzene	91		8.086					ND	
89 1,1,1,2-Tetrachloroethane	131		8.099					ND	
90 m-Xylene & p-Xylene	106		8.202					ND	
91 o-Xylene	106		8.634					ND	
92 Styrene	104		8.652					ND	
93 2-Chlorobenzotrifluoride	180		8.908					ND	
95 Bromoform	173		8.920					ND	
94 Isopropylbenzene	105		8.999					ND	
96 Cyclohexanone	55		9.200					ND	
97 1,1,2,2-Tetrachloroethane	83		9.388					ND	
101 Bromobenzene	156		9.388					ND	
98 trans-1,4-Dichloro-2-buten	53		9.431					ND	
99 N-Propylbenzene	91		9.437					ND	
100 1,2,3-Trichloropropane	110		9.443					ND	
103 2-Chlorotoluene	126		9.565					ND	
102 1,3,5-Trimethylbenzene	105		9.607					ND	
104 3-Chlorotoluene	126		9.626					ND	
105 4-Chlorotoluene	126		9.668					ND	
106 tert-Butylbenzene	134		9.930					ND	
108 Pentachloroethane	167		10.009					ND	
109 sec-Butylbenzene	105		10.143					ND	
110 4-Isopropyltoluene	119		10.270					ND	
111 1,3-Dichlorobenzene	146		10.301					ND	
114 Dicyclopentadiene	66		10.374					ND	U
113 1,4-Dichlorobenzene	146		10.380					ND	
112 1,2,3-Trimethylbenzene	105		10.392					ND	
150 Benzyl chloride	126		10.514					ND	
116 1,2-Dichlorobenzene	146		10.733					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.420					ND	
118 1,3,5-Trichlorobenzene	180		11.542					ND	
119 1,2,4-Trichlorobenzene	180		12.053					ND	
121 Naphthalene	128		12.266					ND	
122 1,2,3-Trichlorobenzene	180	12.467	12.473	-0.006	90	2187		0.2541	
149 2-Methylnaphthalene	142	13.282	13.276	0.006	89	2219		0.1594	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
S 124 Xylenes, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00040 Amount Added: 1.00 Units: uL Run Reagent

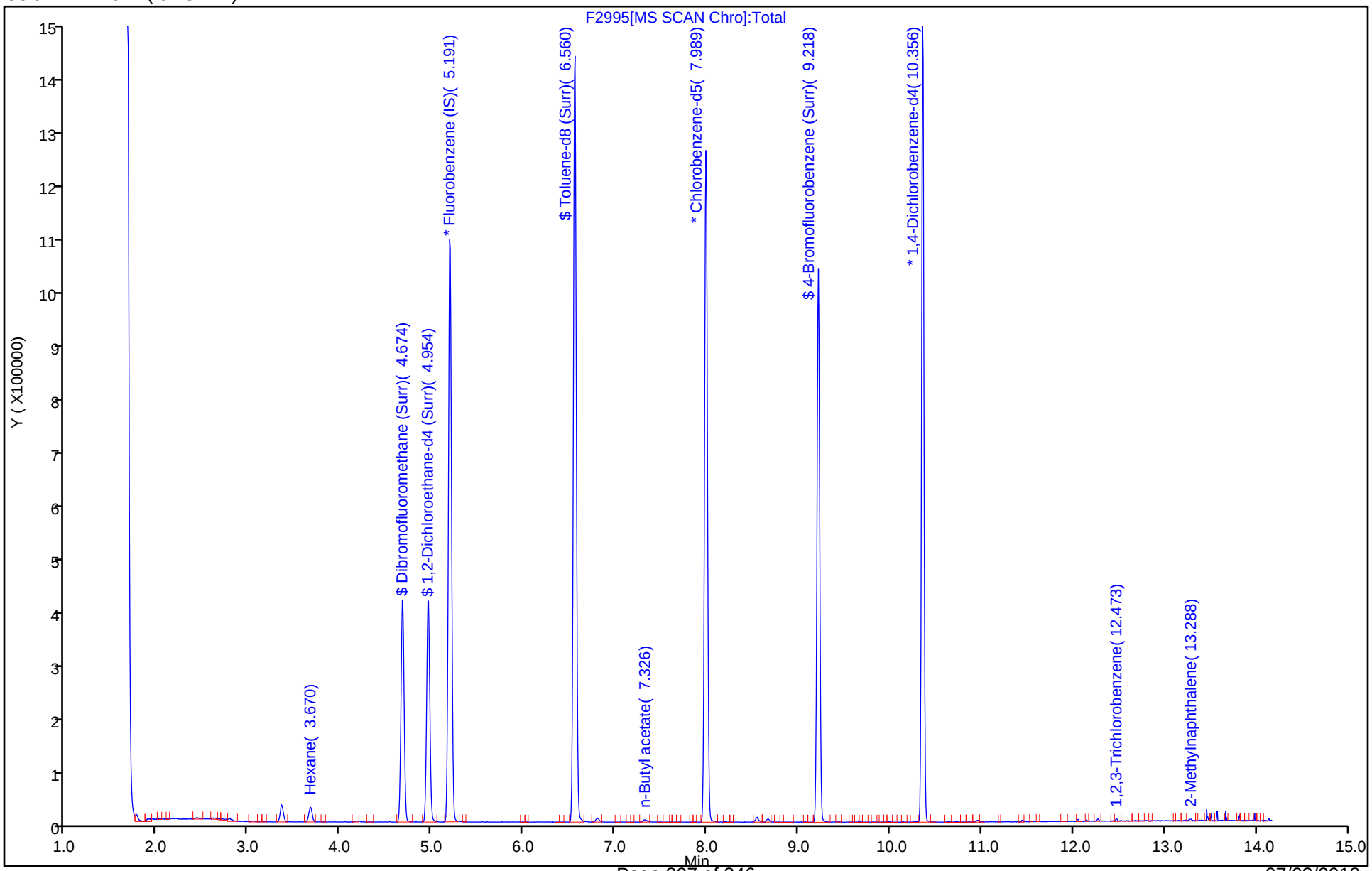
Report Date: 24-Jun-2018 14:53:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2995.D

Injection Date:	24-Jun-2018 10:55:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	MB 480-421273/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-421976/6

Matrix: Water | Lab File ID: S2883.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	ND		1.0	0.29
75-34-3	1,1-Dichloroethane	ND		1.0	0.38
107-06-2	1,2-Dichloroethane	ND		1.0	0.21
78-93-3	2-Butanone (MEK)	ND		10	1.3
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.82
67-64-1	Acetone	ND		10	3.0
78-87-5	1,2-Dichloropropane	ND		1.0	0.72
74-83-9	Bromomethane	ND		1.0	0.69
75-15-0	Carbon disulfide	ND		1.0	0.19
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.23
56-23-5	Carbon tetrachloride	ND		1.0	0.27
71-43-2	Benzene	ND		1.0	0.41
124-48-1	Dibromochloromethane	ND		1.0	0.32
75-25-2	Bromoform	ND		1.0	0.26
75-00-3	Chloroethane	ND		1.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1
67-66-3	Chloroform	ND		1.0	0.34
591-78-6	2-Hexanone	ND		5.0	1.2
74-87-3	Chloromethane	ND		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.81
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
75-27-4	Bromodichloromethane	ND		1.0	0.39
108-90-7	Chlorobenzene	ND		1.0	0.75
100-41-4	Ethylbenzene	ND		1.0	0.74
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
110-82-7	Cyclohexane	ND		1.0	0.18
127-18-4	Tetrachloroethene	ND		1.0	0.36
106-93-4	1,2-Dibromoethane	ND		1.0	0.73
108-88-3	Toluene	ND		1.0	0.51
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.78
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.84
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-421976/6

Matrix: Water | Lab File ID: S2883.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 21:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
75-71-8	Dichlorodifluoromethane	ND		1.0	0.68
79-01-6	Trichloroethene	ND		1.0	0.46
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.41
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.39
75-01-4	Vinyl chloride	ND		1.0	0.90
98-82-8	Isopropylbenzene	ND		1.0	0.79
1330-20-7	Xylenes, Total	ND		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.36
79-20-9	Methyl acetate	ND		2.5	1.3
108-87-2	Methylcyclohexane	ND		1.0	0.16
100-42-5	Styrene	ND		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2883.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 27-Jun-2018 21:24:30 ALS Bottle#: 6 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0072684-006
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 10:10:52 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: carrolln Date: 28-Jun-2018 10:12:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	98	162852	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	343051	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	96	295484	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	58	201635	25.0	25.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	139824	25.0	27.4	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	0.000	94	828249	25.0	24.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	89	246702	25.0	24.0	
10 Dichlorodifluoromethane	85		1.288					ND	
11 Chlorodifluoromethane	51		1.306					ND	
12 Chloromethane	50		1.470					ND	
13 Vinyl chloride	62		1.549					ND	
151 Butadiene	54		1.586					ND	
14 Bromomethane	94		1.878					ND	
15 Chloroethane	64		1.975					ND	
17 Trichlorofluoromethane	101		2.194					ND	
16 Dichlorofluoromethane	67		2.200					ND	
18 Ethyl ether	59		2.498					ND	
148 Ethanol	45		2.535					ND	
19 Propene oxide	58		2.596					ND	
20 Acrolein	56		2.693					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.699					ND	
22 1,1-Dichloroethene	96		2.730					ND	
23 Acetone	43		2.851					ND	
25 Iodomethane	142		2.894					ND	
26 Carbon disulfide	76		2.924					ND	
24 Isopropyl alcohol	45		3.052					ND	
28 3-Chloro-1-propene	41		3.095					ND	
27 Methyl acetate	43		3.149					ND	
29 Acetonitrile	40		3.174					ND	
31 2-Methyl-2-propanol	59		3.429					ND	
32 Methyl tert-butyl ether	73		3.454					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
34 trans-1,2-Dichloroethene	96		3.472					ND	
33 Acrylonitrile	53		3.545					ND	
35 Hexane	57		3.660					ND	
139 Halothane	117		3.822					ND	
39 1,1-Dichloroethane	63		3.898					ND	
36 Isopropyl ether	45		3.910					ND	
37 Vinyl acetate	43		3.952					ND	
40 2-Chloro-1,3-butadiene	53		3.953					ND	
38 1,1-Dimethoxyethane	75		3.989					ND	
41 Tert-butyl ethyl ether	59		4.251					ND	
44 2,2-Dichloropropane	77		4.415					ND	
45 cis-1,2-Dichloroethene	96		4.457					ND	
43 2-Butanone (MEK)	43		4.500					ND	
42 Ethyl acetate	43		4.524					ND	
46 Propionitrile	54		4.610					ND	
48 Chlorobromomethane	128		4.701					ND	
49 Tetrahydrofuran	42		4.713					ND	
47 Methacrylonitrile	41		4.719					ND	
50 Chloroform	83		4.774					ND	
52 Cyclohexane	56		4.883					ND	
51 1,1,1-Trichloroethane	97		4.883					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.930					ND	
55 Carbon tetrachloride	117		5.017					ND	
54 1,1-Dichloropropene	75		5.035					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.153					ND	
152 Isooctane	57		5.224					ND	
57 Benzene	78		5.242					ND	
53 Isobutyl alcohol	43		5.273					ND	
58 1,2-Dichloroethane	62		5.315					ND	
56 Tert-amyl methyl ether	73		5.315					ND	
147 t-Amyl alcohol	59		5.321					ND	
59 n-Heptane	43		5.413					ND	
1 1,4-Difluorobenzene	114		5.625					ND	
62 Trichloroethene	95		5.851					ND	
60 n-Butanol	56		5.893					ND	
64 Methylcyclohexane	83		5.960					ND	
142 Ethyl acrylate	55		5.978					ND	
65 1,2-Dichloropropane	63		6.100					ND	
63 Methyl methacrylate	41		6.191					ND	
67 Dibromomethane	93		6.234					ND	
66 1,4-Dioxane	88		6.246					ND	
68 Dichlorobromomethane	83		6.392					ND	
70 2-Nitropropane	43		6.648					ND	
69 2-Chloroethyl vinyl ether	63		6.666					ND	
71 Epichlorohydrin	57		6.769					ND	
72 cis-1,3-Dichloropropene	75		6.806					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.952					ND	
74 Toluene	92		7.092					ND	
76 2-Methylthiophene	97		7.232					ND	
77 trans-1,3-Dichloropropene	75		7.378					ND	
78 3-Methylthiophene	97		7.390					ND	
75 Ethyl methacrylate	69		7.414					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
79 1,1,2-Trichloroethane	83		7.566					ND	
81 Tetrachloroethene	166		7.621					ND	
82 1,3-Dichloropropane	76		7.730					ND	
80 2-Hexanone	43		7.791					ND	
155 n-Butyl acetate	43		7.895					ND	
83 Chlorodibromomethane	129		7.962					ND	
84 Ethylene Dibromide	107		8.071					ND	
146 1-Chlorohexane	55		8.485					ND	U
85 3-Chlorobenzotrifluoride	180		8.503					ND	
87 Chlorobenzene	112		8.539					ND	
86 4-Chlorobenzotrifluoride	180		8.570					ND	
88 Ethylbenzene	91		8.631					ND	
89 1,1,1,2-Tetrachloroethane	131		8.637					ND	
90 m-Xylene & p-Xylene	106		8.752					ND	
91 o-Xylene	106		9.178					ND	
92 Styrene	104		9.215					ND	
95 Bromoform	173		9.464					ND	
93 2-Chlorobenzotrifluoride	180		9.489					ND	
94 Isopropylbenzene	105		9.562					ND	
96 Cyclohexanone	55		9.744					ND	
101 Bromobenzene	156		9.908					ND	
97 1,1,2,2-Tetrachloroethane	83		9.969					ND	
99 N-Propylbenzene	91		9.987					ND	
100 1,2,3-Trichloropropane	110		10.000					ND	
98 trans-1,4-Dichloro-2-buten	53		10.018					ND	
103 2-Chlorotoluene	126		10.091					ND	
102 1,3,5-Trimethylbenzene	105		10.158					ND	
104 3-Chlorotoluene	126		10.158					ND	
105 4-Chlorotoluene	126		10.200					ND	
106 tert-Butylbenzene	134		10.474					ND	
107 1,2,4-Trimethylbenzene	105		10.529					ND	
108 Pentachloroethane	167		10.541					ND	
109 sec-Butylbenzene	105		10.687					ND	
111 1,3-Dichlorobenzene	146		10.827					ND	
110 4-Isopropyltoluene	119		10.827					ND	
114 Dicyclopentadiene	66		10.888					ND	
113 1,4-Dichlorobenzene	146		10.912					ND	
112 1,2,3-Trimethylbenzene	105		10.936					ND	
150 Benzyl chloride	126		11.064					ND	
115 n-Butylbenzene	91		11.210					ND	
116 1,2-Dichlorobenzene	146		11.265					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.995					ND	
118 1,3,5-Trichlorobenzene	180		12.123					ND	
119 1,2,4-Trichlorobenzene	180		12.664					ND	
120 Hexachlorobutadiene	225		12.768					ND	
121 Naphthalene	128		12.877					ND	
122 1,2,3-Trichlorobenzene	180		13.078					ND	
149 2-Methylnaphthalene	142		13.790					ND	U
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
135 Hexachloroethane	117		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
134 Pentachloroethane TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 156 1-Chloro-1-fluoroethane TI	47		2.000					ND	
T 129 bis(chloromethyl)ether TIC	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 130 Bromoethane TIC	1		0.000					ND	
T 131 1-Bromopropane	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 132 tert-amyl alcohol TIC	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 133 Aziridine TIC	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

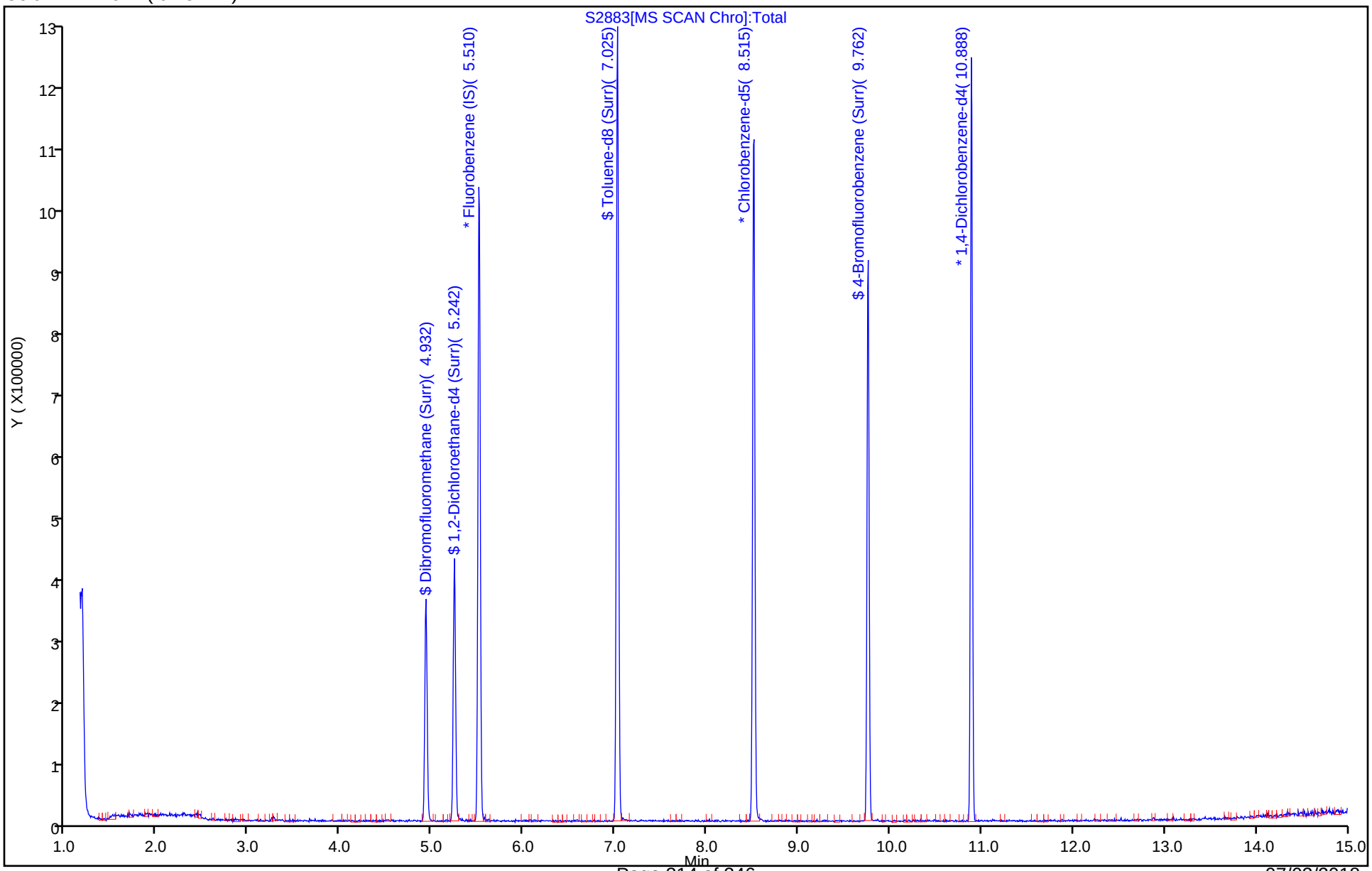
Report Date: 28-Jun-2018 10:12:17 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2883.D

Injection Date:	27-Jun-2018 21:24:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	MB			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-421273/1-A

Matrix: Solid | Lab File ID: F2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/24/2018 10:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	48.9		5.0	0.61
75-34-3	1,1-Dichloroethane	49.5		5.0	0.61
107-06-2	1,2-Dichloroethane	45.5		5.0	0.25
78-93-3	2-Butanone (MEK)	271		25	1.8
71-55-6	1,1,1-Trichloroethane	44.5		5.0	0.36
67-64-1	Acetone	211		25	4.2
78-87-5	1,2-Dichloropropane	50.8		5.0	2.5
74-83-9	Bromomethane	43.0		5.0	0.45
75-15-0	Carbon disulfide	51.0		5.0	2.5
79-00-5	1,1,2-Trichloroethane	51.3		5.0	0.65
56-23-5	Carbon tetrachloride	43.0		5.0	0.48
71-43-2	Benzene	52.2		5.0	0.25
124-48-1	Dibromochloromethane	51.0		5.0	0.64
75-25-2	Bromoform	51.5		5.0	2.5
75-00-3	Chloroethane	42.6		5.0	1.1
108-10-1	4-Methyl-2-pentanone (MIBK)	272		25	1.6
67-66-3	Chloroform	48.5		5.0	0.31
591-78-6	2-Hexanone	268		25	2.5
74-87-3	Chloromethane	44.6		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	50.7		5.0	0.64
79-34-5	1,1,2,2-Tetrachloroethane	52.0		5.0	0.81
75-27-4	Bromodichloromethane	49.0		5.0	0.67
108-90-7	Chlorobenzene	51.4		5.0	0.66
100-41-4	Ethylbenzene	51.3		5.0	0.35
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	44.2		5.0	1.1
1634-04-4	Methyl tert-butyl ether	46.3		5.0	0.49
75-09-2	Methylene Chloride	51.8		5.0	2.3
110-82-7	Cyclohexane	45.8		5.0	0.70
127-18-4	Tetrachloroethene	49.9		5.0	0.67
106-93-4	1,2-Dibromoethane	51.0		5.0	0.64
108-88-3	Toluene	51.7		5.0	0.38
541-73-1	1,3-Dichlorobenzene	51.2		5.0	0.26
106-46-7	1,4-Dichlorobenzene	50.7		5.0	0.70
156-60-5	trans-1,2-Dichloroethene	50.3		5.0	0.52
95-50-1	1,2-Dichlorobenzene	50.1		5.0	0.39

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-421273/1-A

Matrix: Solid | Lab File ID: F2993.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 06/24/2018 10:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 421262 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	48.8		5.0	2.2
75-71-8	Dichlorodifluoromethane	42.4		5.0	0.41
79-01-6	Trichloroethene	49.2		5.0	1.1
120-82-1	1,2,4-Trichlorobenzene	50.1		5.0	0.30
75-69-4	Trichlorofluoromethane	43.4		5.0	0.47
96-12-8	1,2-Dibromo-3-Chloropropane	50.8		5.0	2.5
75-01-4	Vinyl chloride	43.2		5.0	0.61
98-82-8	Isopropylbenzene	50.8		5.0	0.75
1330-20-7	Xylenes, Total	102		10	0.84
10061-01-5	cis-1,3-Dichloropropene	49.0		5.0	0.72
79-20-9	Methyl acetate	120		25	3.0
108-87-2	Methylcyclohexane	45.4		5.0	0.76
100-42-5	Styrene	51.1		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		64-126
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126
2037-26-5	Toluene-d8 (Surr)	105		71-125
1868-53-7	Dibromofluoromethane (Surr)	100		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2993.D
Lims ID: LCS 480-421273/1-A
Client ID:
Sample Type: LCS
Inject. Date: 24-Jun-2018 10:03:30 ALS Bottle#: 5 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0072575-005
Operator ID: AM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 24-Jun-2018 14:51:35 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK025

First Level Reviewer: moffata Date: 24-Jun-2018 14:51:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	263394	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	530755	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	511721	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.685	-0.006	94	324209	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.960	-0.006	97	201439	50.0	48.2	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.001	92	1288790	50.0	52.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	92	418336	50.0	50.6	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	352274	50.0	42.4	
12 Chloromethane	50	1.991	1.985	0.006	99	302276	50.0	44.6	
13 Vinyl chloride	62	2.076	2.076	0.000	98	287258	50.0	43.2	M
151 Butadiene	54	2.082	2.084	0.000	90	290492	50.0	39.3	
14 Bromomethane	94	2.362	2.362	0.000	90	161323	50.0	43.0	
15 Chloroethane	64	2.417	2.417	0.000	99	127901	50.0	42.6	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	376493	50.0	46.5	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	379839	50.0	43.4	
18 Ethyl ether	59	2.770	2.769	0.001	85	211991	50.0	41.7	
20 Acrolein	56	2.922	2.922	0.000	100	303210	250.0	226.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.958	-0.006	93	302727	50.0	44.2	
22 1,1-Dichloroethene	96	2.977	2.976	0.001	98	332635	50.0	48.9	
23 Acetone	43	3.031	3.031	0.000	100	584539	250.0	211.5	
25 Iodomethane	142	3.129	3.128	0.001	99	612521	50.0	50.3	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1119319	50.0	51.0	
27 Methyl acetate	43	3.244	3.244	0.000	90	616634	100.0	119.5	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	88	536440	50.0	49.3	
30 Methylene Chloride	84	3.354	3.353	0.001	89	413813	50.0	51.8	
31 2-Methyl-2-propanol	59	3.415	3.414	0.001	100	396953	500.0	492.1	
32 Methyl tert-butyl ether	73	3.506	3.506	0.000	94	1098660	50.0	46.3	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	393392	50.0	50.3	
33 Acrylonitrile	53	3.554	3.554	0.000	99	1468159	500.0	566.3	
35 Hexane	57	3.670	3.670	0.000	90	562775	50.0	45.6	
37 Vinyl acetate	43	3.846	3.852	-0.006	97	1415594	100.0	97.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.865	3.858	0.007	96	662966	50.0	49.5	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	88	509311	50.0	44.2	
43 2-Butanone (MEK)	43	4.291	4.296	-0.005	98	973583	250.0	270.6	
45 cis-1,2-Dichloroethene	96	4.303	4.302	0.001	78	436306	50.0	50.7	
48 Chlorobromomethane	128	4.503	4.509	-0.006	93	202305	50.0	49.6	
49 Tetrahydrofuran	42	4.528	4.528	0.000	85	251436	100.0	114.4	
50 Chloroform	83	4.540	4.540	0.000	93	679041	50.0	48.5	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	97	529139	50.0	44.5	
52 Cyclohexane	56	4.710	4.710	0.000	87	549378	50.0	45.8	
54 1,1-Dichloropropene	75	4.802	4.801	0.001	98	539884	50.0	48.9	
55 Carbon tetrachloride	117	4.808	4.807	0.001	97	429870	50.0	43.0	
53 Isobutyl alcohol	43	4.869	4.868	0.000	94	462644	1250.0	1374.6	
57 Benzene	78	4.984	4.984	0.000	96	1583049	50.0	52.2	
58 1,2-Dichloroethane	62	5.015	5.020	-0.005	97	526933	50.0	45.5	
59 n-Heptane	43	5.075	5.081	-0.006	88	524226	50.0	44.0	
62 Trichloroethene	95	5.495	5.495	0.000	98	398124	50.0	49.2	
64 Methylcyclohexane	83	5.629	5.635	-0.006	86	647083	50.0	45.4	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	96	359933	50.0	50.8	
66 1,4-Dioxane	88	5.824	5.824	0.001	90	95854	1000.0	1213.9	
67 Dibromomethane	93	5.842	5.842	0.000	94	236950	50.0	49.1	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	482829	50.0	49.0	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	221262	50.0	50.8	
72 cis-1,3-Dichloropropene	75	6.329	6.334	-0.005	97	588396	50.0	49.0	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.438	-0.006	94	1832199	250.0	271.8	
74 Toluene	92	6.621	6.620	0.001	99	982121	50.0	51.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.001	96	543202	50.0	48.8	
75 Ethyl methacrylate	69	6.852	6.852	0.001	87	479199	50.0	49.8	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	91	277431	50.0	51.3	
81 Tetrachloroethene	166	7.138	7.138	0.001	98	426709	50.0	49.9	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	98	599400	50.0	52.3	
80 2-Hexanone	43	7.223	7.223	0.000	93	1410549	250.0	268.1	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	343922	50.0	51.0	
84 Ethylene Dibromide	107	7.570	7.570	0.001	99	351129	50.0	51.0	
87 Chlorobenzene	112	8.020	8.020	0.000	95	1057671	50.0	51.4	
88 Ethylbenzene	91	8.087	8.087	0.001	98	1757064	50.0	51.3	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	333777	50.0	50.2	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	728717	50.0	50.7	
91 o-Xylene	106	8.634	8.634	0.000	95	684451	50.0	50.8	
92 Styrene	104	8.652	8.652	0.000	94	1201150	50.0	51.1	
95 Bromoform	173	8.920	8.920	0.000	97	225588	50.0	51.5	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1696140	50.0	50.8	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	436725	50.0	52.0	
101 Bromobenzene	156	9.389	9.388	0.001	90	466665	50.0	50.7	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	60	136592	50.0	49.5	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2001837	50.0	51.4	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	81	148807	50.0	51.6	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	428631	50.0	51.6	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.001	94	1462401	50.0	50.8	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	463103	50.0	51.6	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	327004	50.0	49.7	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1515775	50.0	51.3	
109 sec-Butylbenzene	105	10.137	10.143	-0.006	94	1821177	50.0	50.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.271	10.271	0.001	96	1575358	50.0	51.0	
111 1,3-Dichlorobenzene	146	10.295	10.301	-0.006	98	878329	50.0	51.2	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	892652	50.0	50.7	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1403218	50.0	50.4	
116 1,2-Dichlorobenzene	146	10.727	10.733	-0.006	98	791650	50.0	50.1	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.420	-0.006	87	82165	50.0	50.8	
119 1,2,4-Trichlorobenzene	180	12.047	12.053	-0.006	94	528997	50.0	50.1	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	308525	50.0	48.6	
121 Naphthalene	128	12.266	12.266	0.000	97	1236047	50.0	50.2	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	478519	50.0	49.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00040 Amount Added: 1.00 Units: uL Run Reagent

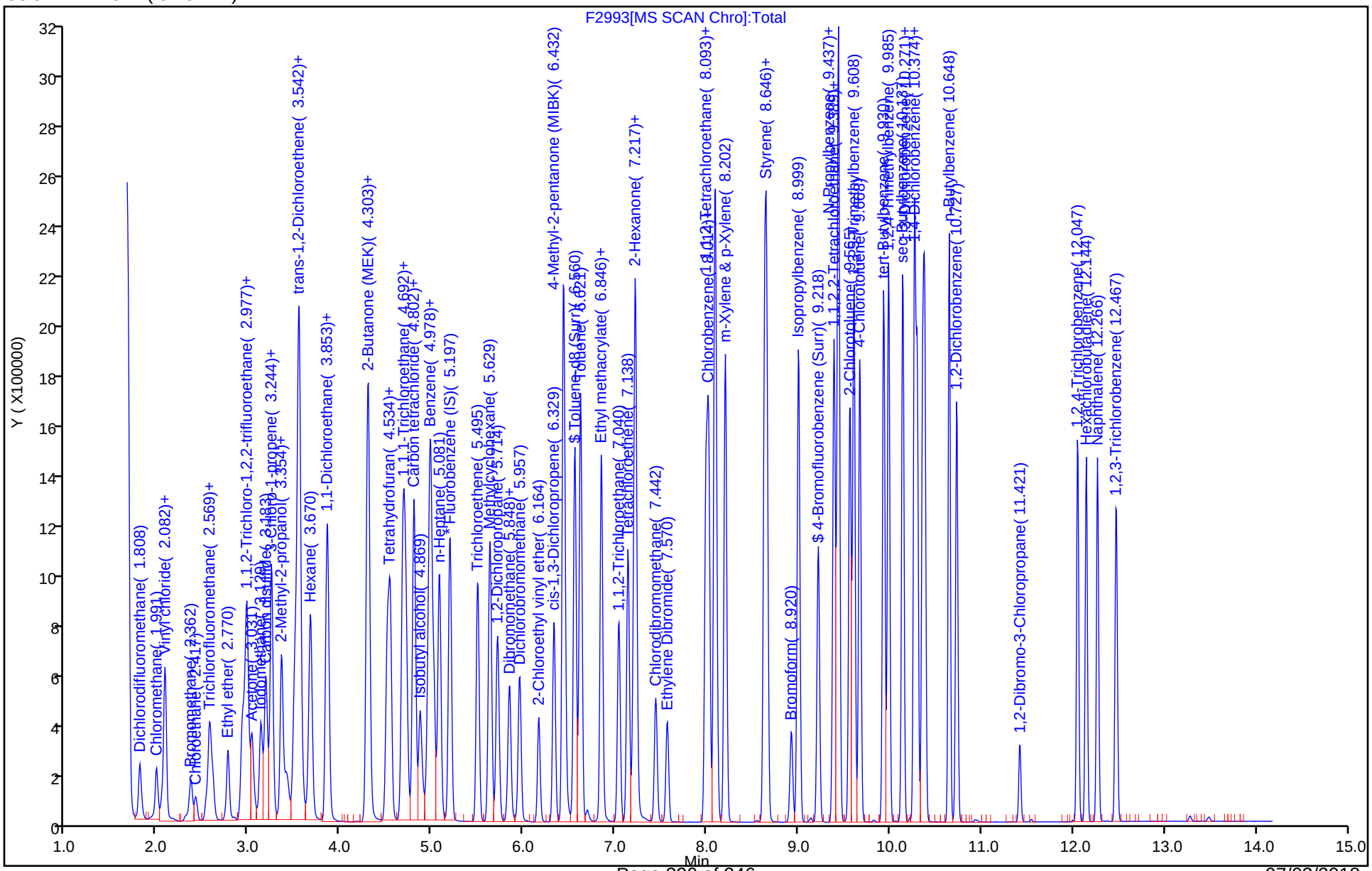
Report Date: 24-Jun-2018 14:51:36 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2993.D

Injection Date:	24-Jun-2018 10:03:30	Instrument ID:	HP5973F	Operator ID:	AM
Lims ID:	LCS 480-421273/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

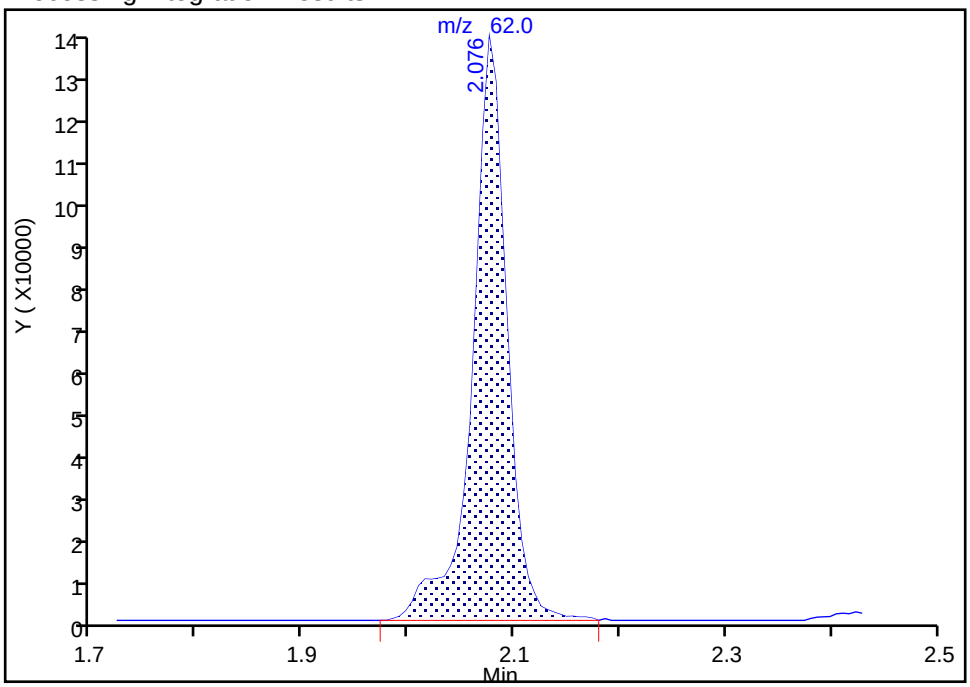
Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180624-72575.b\F2993.D				
Injection Date:	24-Jun-2018 10:03:30	Instrument ID:	HP5973F		
Lims ID:	LCS 480-421273/1-A				
Client ID:					
Operator ID:	AM	ALS Bottle#:	5	Worklist Smp#:	5
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

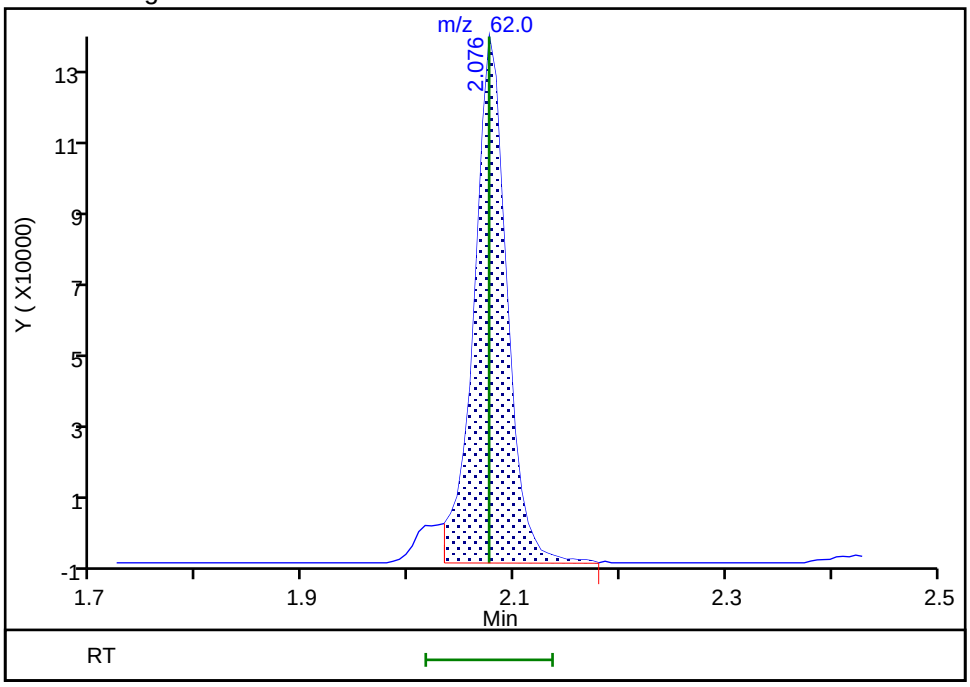
Processing Integration Results

RT: 2.08
Area: 302575
Amount: 45.532268
Amount Units: ug/kg



Manual Integration Results

RT: 2.08
Area: 287258
Amount: 43.227326
Amount Units: ug/kg



Reviewer: moffata, 24-Jun-2018 14:51:13

Audit Action: Manually Integrated Audit Reason: Poor chromatography

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-421976/4

Matrix: Water | Lab File ID: S2881.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 20:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
75-35-4	1,1-Dichloroethene	30.6		1.0	0.29
75-34-3	1,1-Dichloroethane	27.7		1.0	0.38
107-06-2	1,2-Dichloroethane	27.0		1.0	0.21
78-93-3	2-Butanone (MEK)	154		10	1.3
71-55-6	1,1,1-Trichloroethane	27.9		1.0	0.82
67-64-1	Acetone	138		10	3.0
78-87-5	1,2-Dichloropropane	25.9		1.0	0.72
74-83-9	Bromomethane	26.9		1.0	0.69
75-15-0	Carbon disulfide	28.4		1.0	0.19
79-00-5	1,1,2-Trichloroethane	27.5		1.0	0.23
56-23-5	Carbon tetrachloride	29.6		1.0	0.27
71-43-2	Benzene	26.9		1.0	0.41
124-48-1	Dibromochloromethane	28.2		1.0	0.32
75-25-2	Bromoform	28.4		1.0	0.26
75-00-3	Chloroethane	26.8		1.0	0.32
108-10-1	4-Methyl-2-pentanone (MIBK)	146		5.0	2.1
67-66-3	Chloroform	26.9		1.0	0.34
591-78-6	2-Hexanone	146		5.0	1.2
74-87-3	Chloromethane	26.0		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	27.4		1.0	0.81
79-34-5	1,1,2,2-Tetrachloroethane	28.5		1.0	0.21
75-27-4	Bromodichloromethane	28.4		1.0	0.39
108-90-7	Chlorobenzene	27.2		1.0	0.75
100-41-4	Ethylbenzene	27.8		1.0	0.74
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	28.1		1.0	0.31
1634-04-4	Methyl tert-butyl ether	27.2		1.0	0.16
75-09-2	Methylene Chloride	25.9		1.0	0.44
110-82-7	Cyclohexane	30.1		1.0	0.18
127-18-4	Tetrachloroethene	27.9		1.0	0.36
106-93-4	1,2-Dibromoethane	28.6		1.0	0.73
108-88-3	Toluene	27.2		1.0	0.51
541-73-1	1,3-Dichlorobenzene	27.7		1.0	0.78
106-46-7	1,4-Dichlorobenzene	27.7		1.0	0.84
156-60-5	trans-1,2-Dichloroethene	27.8		1.0	0.90
95-50-1	1,2-Dichlorobenzene	26.9		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-137801-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-421976/4

Matrix: Water | Lab File ID: S2881.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/27/2018 20:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (20) ID: 0.18(mm)

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

Analysis Batch No.: 421976 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
10061-02-6	trans-1,3-Dichloropropene	27.1		1.0	0.37
75-71-8	Dichlorodifluoromethane	27.3		1.0	0.68
79-01-6	Trichloroethene	27.5		1.0	0.46
120-82-1	1,2,4-Trichlorobenzene	28.5		1.0	0.41
75-69-4	Trichlorofluoromethane	29.9		1.0	0.88
96-12-8	1,2-Dibromo-3-Chloropropane	28.4		1.0	0.39
75-01-4	Vinyl chloride	27.2		1.0	0.90
98-82-8	Isopropylbenzene	28.5		1.0	0.79
1330-20-7	Xylenes, Total	54.4		2.0	0.66
10061-01-5	cis-1,3-Dichloropropene	27.2		1.0	0.36
79-20-9	Methyl acetate	61.1		2.5	1.3
108-87-2	Methylcyclohexane	30.9		1.0	0.16
100-42-5	Styrene	27.3		1.0	0.73

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		75-123

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2881.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 27-Jun-2018 20:25:30 ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0072684-004
Operator ID: kn Instrument ID: HP5973S

Method: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 28-Jun-2018 10:01:11 Calib Date: 20-Jun-2018 20:51:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973S\20180620-72482.b\S2524.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: nowakk Date: 27-Jun-2018 21:18:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	5.510	5.510	0.000	99	168024	25.0	25.0	
* 2 Chlorobenzene-d5	82	8.509	8.509	0.000	88	344598	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	10.894	10.888	0.006	53	315310	25.0	25.0	
$ 154 Dibromofluoromethane (Surr	113	4.932	4.932	0.000	67	209099	25.0	26.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.242	5.242	0.000	0	137078	25.0	26.0	
$ 5 Toluene-d8 (Surr)	98	7.025	7.025	-0.001	89	858133	25.0	25.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.762	9.762	0.000	88	253299	25.0	24.6	
10 Dichlorodifluoromethane	85	1.282	1.288	-0.006	96	221126	25.0	27.3	
12 Chloromethane	50	1.464	1.470	-0.006	98	333653	25.0	26.0	
13 Vinyl chloride	62	1.549	1.549	0.000	94	310578	25.0	27.2	
151 Butadiene	54	1.580	1.586	-0.006	88	328929	25.0	27.6	
14 Bromomethane	94	1.872	1.878	-0.006	90	165045	25.0	26.9	
15 Chloroethane	64	1.969	1.975	-0.006	98	185687	25.0	26.8	
17 Trichlorofluoromethane	101	2.188	2.194	-0.006	88	323359	25.0	29.9	
16 Dichlorofluoromethane	67	2.200	2.200	0.000	95	381877	25.0	25.2	
18 Ethyl ether	59	2.498	2.498	0.000	90	267012	25.0	27.7	
20 Acrolein	56	2.687	2.693	-0.006	99	238773	125.0	129.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.705	2.705	0.006	78	185019	25.0	28.1	M
22 1,1-Dichloroethene	96	2.723	2.730	-0.007	93	227232	25.0	30.6	
23 Acetone	43	2.851	2.851	0.000	96	447064	125.0	138.3	
25 Iodomethane	142	2.888	2.894	-0.006	97	334454	25.0	30.8	
26 Carbon disulfide	76	2.924	2.924	0.000	99	672246	25.0	28.4	M
28 3-Chloro-1-propene	41	3.095	3.095	-0.001	90	367983	25.0	25.6	
27 Methyl acetate	43	3.149	3.149	0.000	95	518323	50.0	61.1	
30 Methylene Chloride	84	3.253	3.259	-0.006	98	253444	25.0	25.9	
31 2-Methyl-2-propanol	59	3.429	3.429	0.000	91	292202	250.0	266.8	
32 Methyl tert-butyl ether	73	3.453	3.454	-0.001	91	755403	25.0	27.2	
34 trans-1,2-Dichloroethene	96	3.472	3.472	0.000	92	236044	25.0	27.8	
33 Acrylonitrile	53	3.539	3.545	-0.006	99	1359104	250.0	301.3	
35 Hexane	57	3.660	3.660	0.000	84	485779	25.0	31.0	
39 1,1-Dichloroethane	63	3.898	3.898	0.000	95	494788	25.0	27.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
37 Vinyl acetate	43	3.952	3.952	0.000	97	1221883	50.0	59.2	
44 2,2-Dichloropropane	77	4.415	4.415	0.000	91	275569	25.0	27.8	
45 cis-1,2-Dichloroethene	96	4.457	4.457	0.000	80	267283	25.0	27.4	
43 2-Butanone (MEK)	43	4.500	4.500	0.000	94	764457	125.0	154.0	
48 Chlorobromomethane	128	4.694	4.701	-0.007	96	125571	25.0	26.9	
49 Tetrahydrofuran	42	4.713	4.713	0.000	90	211462	50.0	62.0	
50 Chloroform	83	4.774	4.774	0.000	93	420002	25.0	26.9	
51 1,1,1-Trichloroethane	97	4.883	4.883	0.000	85	324611	25.0	27.9	
52 Cyclohexane	56	4.883	4.883	0.000	90	470367	25.0	30.1	
55 Carbon tetrachloride	117	5.017	5.017	0.000	91	289028	25.0	29.6	
54 1,1-Dichloropropene	75	5.029	5.035	-0.006	95	331993	25.0	28.0	
57 Benzene	78	5.242	5.242	0.000	97	958409	25.0	26.9	
53 Isobutyl alcohol	43	5.272	5.273	-0.001	94	379880	625.0	823.9	
58 1,2-Dichloroethane	62	5.315	5.315	0.000	80	388393	25.0	27.0	
59 n-Heptane	43	5.412	5.413	0.000	90	479118	25.0	32.9	
62 Trichloroethene	95	5.850	5.851	-0.001	96	252932	25.0	27.5	
64 Methylcyclohexane	83	5.966	5.960	0.006	94	432481	25.0	30.9	
65 1,2-Dichloropropane	63	6.094	6.100	-0.006	95	277973	25.0	25.9	
67 Dibromomethane	93	6.240	6.234	0.006	91	165115	25.0	29.4	
66 1,4-Dioxane	88	6.246	6.246	0.000	38	66394	500.0	861.2	
68 Dichlorobromomethane	83	6.386	6.392	-0.006	99	307352	25.0	28.4	
69 2-Chloroethyl vinyl ether	63	6.666	6.666	0.000	90	213391	25.0	29.7	
72 cis-1,3-Dichloropropene	75	6.805	6.806	-0.001	88	370192	25.0	27.2	
73 4-Methyl-2-pentanone (MIBK	43	6.951	6.952	-0.001	94	1610790	125.0	146.4	
74 Toluene	92	7.091	7.092	-0.001	94	623923	25.0	27.2	
77 trans-1,3-Dichloropropene	75	7.377	7.378	-0.001	94	341815	25.0	27.1	
75 Ethyl methacrylate	69	7.414	7.414	0.000	88	359388	25.0	29.1	
79 1,1,2-Trichloroethane	83	7.566	7.566	0.000	94	190110	25.0	27.5	
81 Tetrachloroethene	166	7.621	7.621	0.000	85	270160	25.0	27.9	
82 1,3-Dichloropropane	76	7.730	7.730	0.000	93	401118	25.0	27.6	
80 2-Hexanone	43	7.791	7.791	0.000	91	1181479	125.0	145.9	
83 Chlorodibromomethane	129	7.967	7.962	0.005	90	221459	25.0	28.2	
84 Ethylene Dibromide	107	8.071	8.071	0.000	97	248735	25.0	28.6	
87 Chlorobenzene	112	8.539	8.539	0.000	93	682288	25.0	27.2	
88 Ethylbenzene	91	8.631	8.631	0.000	99	1147895	25.0	27.8	
89 1,1,1,2-Tetrachloroethane	131	8.637	8.637	0.000	46	224929	25.0	27.7	
90 m-Xylene & p-Xylene	106	8.752	8.752	0.000	0	446204	25.0	26.6	
91 o-Xylene	106	9.178	9.178	0.000	97	442863	25.0	27.8	
92 Styrene	104	9.209	9.215	-0.007	91	748192	25.0	27.3	
95 Bromoform	173	9.464	9.464	0.000	96	142444	25.0	28.4	
94 Isopropylbenzene	105	9.561	9.562	-0.001	96	1133134	25.0	28.5	
101 Bromobenzene	156	9.908	9.908	0.000	94	279754	25.0	27.8	
97 1,1,2,2-Tetrachloroethane	83	9.969	9.969	0.000	74	307774	25.0	28.5	
99 N-Propylbenzene	91	9.981	9.987	-0.006	99	1340315	25.0	29.1	
100 1,2,3-Trichloropropane	110	9.999	10.000	-0.001	69	108041	25.0	30.4	
98 trans-1,4-Dichloro-2-buten	53	10.012	10.018	-0.006	76	95084	25.0	24.7	
103 2-Chlorotoluene	126	10.091	10.091	0.000	96	265241	25.0	26.7	
102 1,3,5-Trimethylbenzene	105	10.158	10.158	0.000	85	962824	25.0	27.9	
105 4-Chlorotoluene	126	10.200	10.200	0.000	88	291499	25.0	28.7	
106 tert-Butylbenzene	134	10.474	10.474	0.000	92	211758	25.0	28.8	
107 1,2,4-Trimethylbenzene	105	10.529	10.529	0.000	59	988895	25.0	28.1	
109 sec-Butylbenzene	105	10.687	10.687	0.000	94	1227135	25.0	29.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
110 4-Isopropyltoluene	119	10.827	10.827	0.000	96	1035673	25.0	29.1	
111 1,3-Dichlorobenzene	146	10.827	10.827	0.000	72	541290	25.0	27.7	
113 1,4-Dichlorobenzene	146	10.912	10.912	0.000	94	551759	25.0	27.7	
115 n-Butylbenzene	91	11.210	11.210	0.000	95	966734	25.0	30.1	
116 1,2-Dichlorobenzene	146	11.265	11.265	0.000	91	518084	25.0	26.9	
117 1,2-Dibromo-3-Chloropropan	75	11.995	11.995	0.000	77	59628	25.0	28.4	
119 1,2,4-Trichlorobenzene	180	12.664	12.664	0.000	94	389252	25.0	28.5	
120 Hexachlorobutadiene	225	12.773	12.768	0.005	92	189146	25.0	28.9	
121 Naphthalene	128	12.883	12.877	0.006	97	1087670	25.0	29.1	
122 1,2,3-Trichlorobenzene	180	13.078	13.078	0.000	96	361561	25.0	28.7	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00127	Amount Added:	12.50	Units: uL	
GAS CORP mix_00288	Amount Added:	12.50	Units: uL	
S_8260_IS_00292	Amount Added:	1.00	Units: uL	Run Reagent
S_8260_Surr_00271	Amount Added:	1.00	Units: uL	Run Reagent

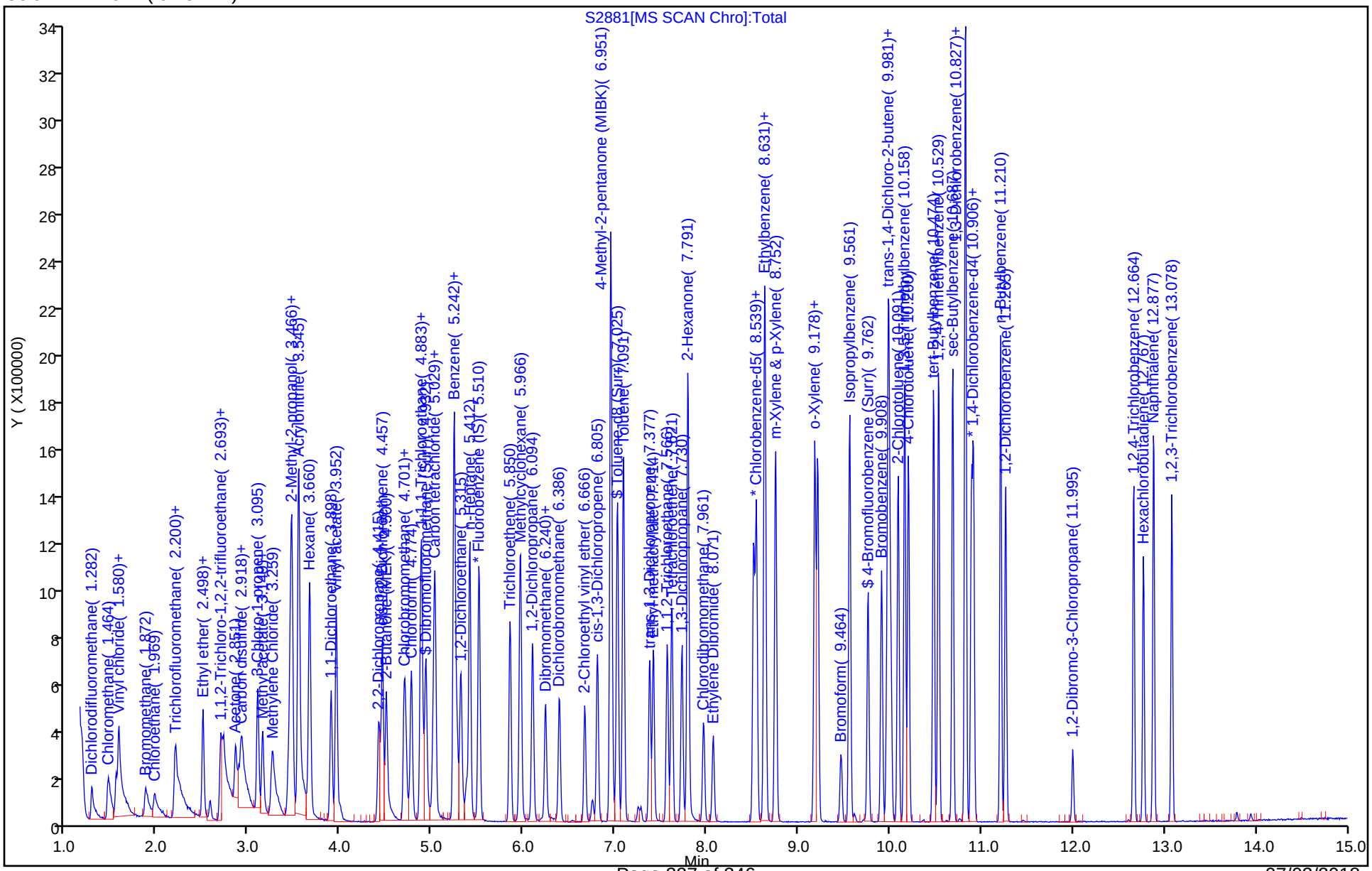
Report Date: 28-Jun-2018 10:01:12 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2881.D

Injection Date:	27-Jun-2018 20:25:30	Instrument ID:	HP5973S	Operator ID:	kn
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	S-8260	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

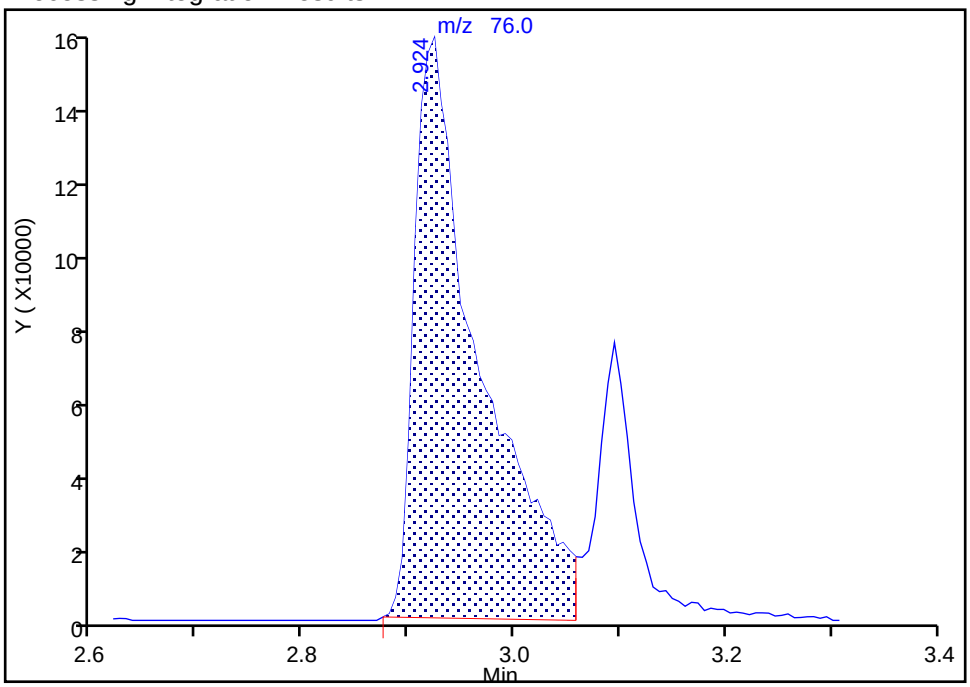
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2881.D
Injection Date: 27-Jun-2018 20:25:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: kn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

26 Carbon disulfide, CAS: 75-15-0

Signal: 1

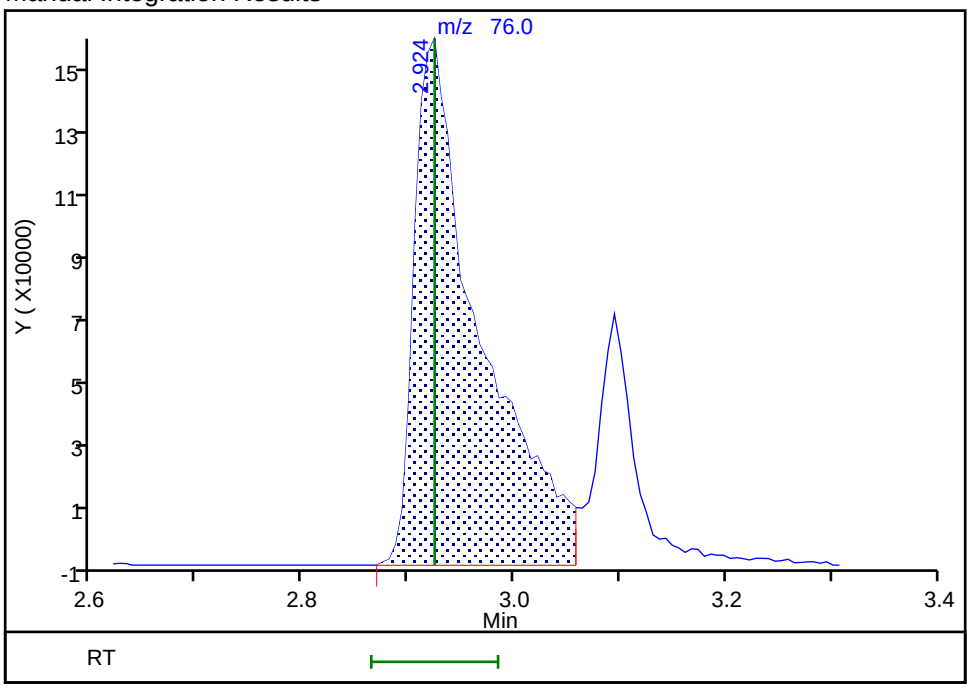
Processing Integration Results

RT: 2.92
Area: 666656
Amount: 28.175761
Amount Units: ug/L



Manual Integration Results

RT: 2.92
Area: 672246
Amount: 28.412018
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 09:59:27
Audit Action: Manually Integrated Audit Reason: Poor chromatography

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

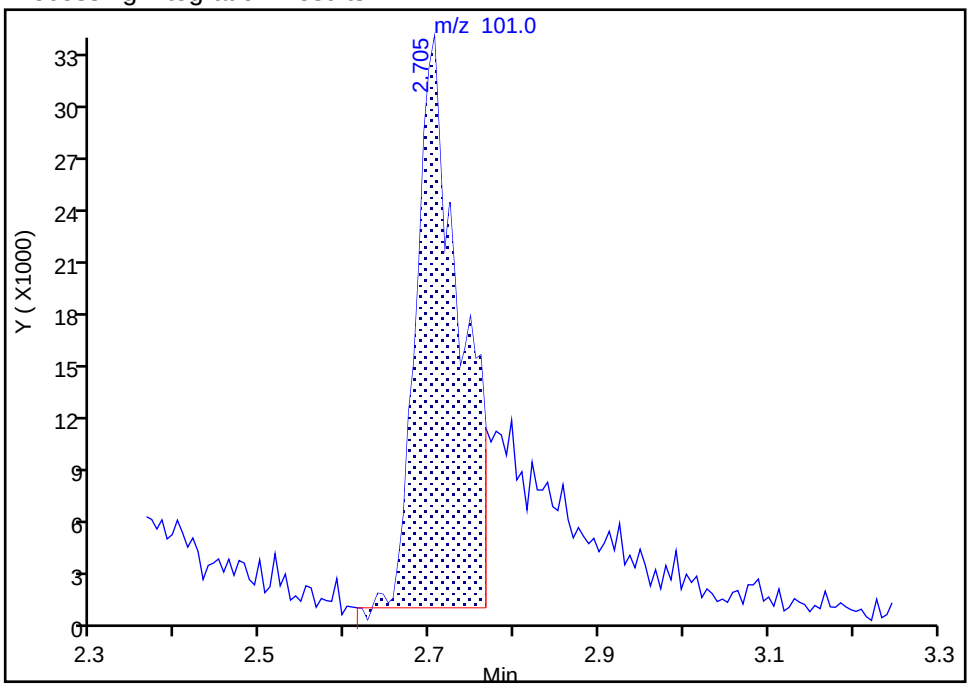
Data File: \\ChromNA\Buffalo\ChromData\HP5973S\20180627-72684.b\S2881.D
Injection Date: 27-Jun-2018 20:25:30 Instrument ID: HP5973S
Lims ID: LCS
Client ID:
Operator ID: kn ALS Bottle#: 4 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: S-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

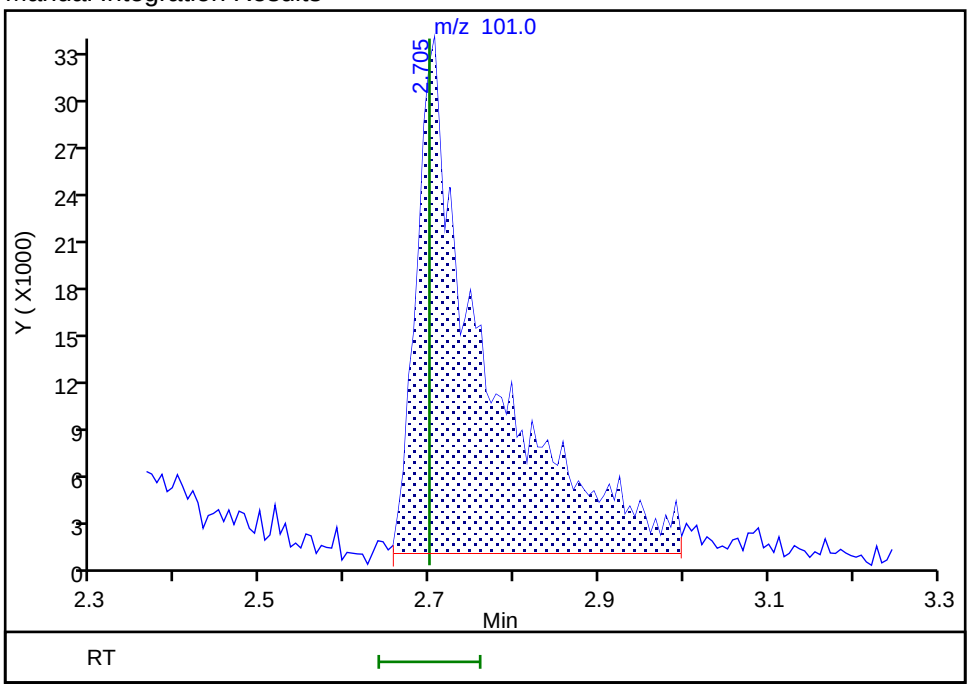
Processing Integration Results

RT: 2.71
Area: 116940
Amount: 17.886890
Amount Units: ug/L



Manual Integration Results

RT: 2.71
Area: 185019
Amount: 28.084126
Amount Units: ug/L



Reviewer: carrolln, 28-Jun-2018 09:59:08
Audit Action: Manually Integrated Audit Reason: Poor chromatography

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Instrument ID: HP5973F Start Date: 05/08/2018 12:17

Analysis Batch Number: 413081 End Date: 05/08/2018 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-413081/4		05/08/2018 12:17	1	F2156.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/6		05/08/2018 13:08	1	F2158.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/7		05/08/2018 13:33	1	F2159.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/8		05/08/2018 13:59	1	F2160.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/9		05/08/2018 14:25	1	F2161.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-413081/10		05/08/2018 14:50	1	F2162.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/11		05/08/2018 15:15	1	F2163.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/12		05/08/2018 15:41	1	F2164.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/14		05/08/2018 16:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/15		05/08/2018 16:58	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/16		05/08/2018 17:24	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/17		05/08/2018 17:50	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/18		05/08/2018 18:16	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/19		05/08/2018 18:41	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/20		05/08/2018 19:07	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/22		05/08/2018 19:59	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/23		05/08/2018 20:24	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/24		05/08/2018 20:50	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/25		05/08/2018 21:16	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Instrument ID: HP5973F Start Date: 06/24/2018 08:32

Analysis Batch Number: 421262 End Date: 06/24/2018 18:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-421262/2		06/24/2018 08:32	1	F2990.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-421262/3		06/24/2018 09:04	1	F2991.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-421262/4		06/24/2018 09:38	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-421273/1-A		06/24/2018 10:03	1	F2993.D	ZB-624 (30) VOA 0.25(mm)
RL 480-421262/6		06/24/2018 10:29	1		ZB-624 (30) VOA 0.25(mm)
MB 480-421273/2-A		06/24/2018 10:55	1	F2995.D	ZB-624 (30) VOA 0.25(mm)
480-137801-1		06/24/2018 11:36	1	F2996.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 12:02	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 12:28	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 15:01	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 15:27	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 15:53	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 16:18	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 16:44	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 17:10	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 17:36	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 18:01	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 18:27	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		06/24/2018 18:52	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Instrument ID: HP5973S Start Date: 06/20/2018 12:54

Analysis Batch Number: 420621 End Date: 06/20/2018 22:24

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-420621/3		06/20/2018 12:54	1	S2504.D	ZB-624 (20) 0.18(mm)
IC 480-420621/5		06/20/2018 13:51	1	S2506.D	ZB-624 (20) 0.18(mm)
IC 480-420621/6		06/20/2018 14:14	1	S2507.D	ZB-624 (20) 0.18(mm)
IC 480-420621/7		06/20/2018 14:38	1	S2508.D	ZB-624 (20) 0.18(mm)
IC 480-420621/8		06/20/2018 15:01	1	S2509.D	ZB-624 (20) 0.18(mm)
IC 480-420621/9		06/20/2018 15:24	1	S2510.D	ZB-624 (20) 0.18(mm)
ICIS 480-420621/10		06/20/2018 15:48	1	S2511.D	ZB-624 (20) 0.18(mm)
IC 480-420621/11		06/20/2018 16:11	1	S2512.D	ZB-624 (20) 0.18(mm)
IC 480-420621/12		06/20/2018 16:34	1	S2513.D	ZB-624 (20) 0.18(mm)
MDLV 480-420621/14		06/20/2018 17:21	1		ZB-624 (20) 0.18(mm)
MDLV 480-420621/15		06/20/2018 17:44	1		ZB-624 (20) 0.18(mm)
IC 480-420621/17		06/20/2018 18:31	1		ZB-624 (20) 0.18(mm)
IC 480-420621/18		06/20/2018 18:54	1		ZB-624 (20) 0.18(mm)
IC 480-420621/19		06/20/2018 19:17	1		ZB-624 (20) 0.18(mm)
IC 480-420621/20		06/20/2018 19:41	1		ZB-624 (20) 0.18(mm)
IC 480-420621/21		06/20/2018 20:04	1		ZB-624 (20) 0.18(mm)
IC 480-420621/22		06/20/2018 20:27	1		ZB-624 (20) 0.18(mm)
IC 480-420621/23		06/20/2018 20:51	1		ZB-624 (20) 0.18(mm)
MDLV 480-420621/25		06/20/2018 21:37	1		ZB-624 (20) 0.18(mm)
ICV 480-420621/26		06/20/2018 22:01	1		ZB-624 (20) 0.18(mm)
ICV 480-420621/27		06/20/2018 22:24	1		ZB-624 (20) 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Instrument ID: HP5973S Start Date: 06/27/2018 19:06

Analysis Batch Number: 421976 End Date: 06/28/2018 05:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-421976/1		06/27/2018 19:06	1	S2878.D	ZB-624 (20) 0.18(mm)
CCVIS 480-421976/2		06/27/2018 19:39	1	S2879.D	ZB-624 (20) 0.18(mm)
CCV 480-421976/3		06/27/2018 20:02	1		ZB-624 (20) 0.18(mm)
LCS 480-421976/4		06/27/2018 20:25	1	S2881.D	ZB-624 (20) 0.18(mm)
MB 480-421976/6		06/27/2018 21:24	1	S2883.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/27/2018 21:58	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/27/2018 22:22	5		ZB-624 (20) 0.18(mm)
ZZZZZ		06/27/2018 22:45	4		ZB-624 (20) 0.18(mm)
ZZZZZ		06/27/2018 23:08	2		ZB-624 (20) 0.18(mm)
480-137801-2		06/27/2018 23:32	1	S2888.D	ZB-624 (20) 0.18(mm)
480-137801-3		06/27/2018 23:55	1	S2889.D	ZB-624 (20) 0.18(mm)
480-137801-4		06/28/2018 00:18	1	S2890.D	ZB-624 (20) 0.18(mm)
480-137801-5		06/28/2018 00:41	1	S2891.D	ZB-624 (20) 0.18(mm)
480-137801-6		06/28/2018 01:04	1	S2892.D	ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 01:27	80		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 01:50	100		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 02:13	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 02:36	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 02:59	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 03:22	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 03:46	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 04:09	10		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 04:32	1		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 04:55	100		ZB-624 (20) 0.18(mm)
ZZZZZ		06/28/2018 05:18	100		ZB-624 (20) 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Batch Number: 421273 Batch Start Date: 06/24/18 10:19 Batch Analyst: Moffat, Alyssa M

Batch Method: 5035A_L Batch End Date: 06/24/18 13:19

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00128	GAS CORP mix 00287
LCS 480-421273/1		5035A_L, 8260C		24.69 g	29.69 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-421273/2		5035A_L, 8260C		24.86 g	29.86 g	5 g	5 mL		
480-137801-B-1	PDI-10-SO-S7-061 82018	5035A_L, 8260C	T	+030.736 g	37.89 g	7.154 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-421273/1		5035A_L, 8260C							
MB 480-421273/2		5035A_L, 8260C							
480-137801-B-1	PDI-10-SO-S7-061 82018	5035A_L, 8260C	T	TC					

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_0005

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Batch Number: 421976 Batch Start Date: 06/27/18 19:06 Batch Analyst: Carroll, Nicole M

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00127	BFB_WRK 00071	GAS CORP mix 00288
BFB 480-421976/1		8260C		1 uL	1 uL			1 uL	
CCVIS 480-421976/2		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-421976/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-421976/6		8260C		5 mL	5 mL				
480-137801-A-2	FB-06192018	8260C	T	5 mL	5 mL	<2 SU			
480-137801-A-3	PDI-11-WG-75-06182018	8260C	T	5 mL	5 mL	<2 SU			
480-137801-A-4	PDI-111-WG-75-06182018	8260C	T	5 mL	5 mL	<2 SU			
480-137801-A-5	PDI-TB-06192018	8260C	T	5 mL	5 mL	<2 SU			
480-137801-B-6	PDI-10-WG-74-06182018	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	S_8260_IS 00292	S_8260_Surr 00271				
BFB 480-421976/1		8260C							
CCVIS 480-421976/2		8260C		1 uL	1 uL				
LCS 480-421976/4		8260C		1 uL	1 uL				
MB 480-421976/6		8260C		1 uL	1 uL				
480-137801-A-2	FB-06192018	8260C	T	1 uL	1 uL				
480-137801-A-3	PDI-11-WG-75-06182018	8260C	T	1 uL	1 uL				
480-137801-A-4	PDI-111-WG-75-06182018	8260C	T	1 uL	1 uL				
480-137801-A-5	PDI-TB-06192018	8260C	T	1 uL	1 uL				
480-137801-B-6	PDI-10-WG-74-06182018	8260C	T	1 uL	1 uL				

Batch Notes	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Batch Number: 421976 Batch Start Date: 06/27/18 19:06 Batch Analyst: Carroll, Nicole M

Batch Method: 8260C Batch End Date:

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137801-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-10-SO-S7-06182018	480-137801-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137801-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-137801-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/22/2018 10:28 End Date: 06/22/2018 10:28

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
480-137801-1	1	T	10:28	X	X																		
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				
ZZZZZZ			10:28																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-137801-1

SDG No.:

Batch Number: 421044 Batch Start Date: 06/22/18 10:28 Batch Analyst: Schultz, Lucas M

Batch Method: Moisture Batch End Date: 06/24/18 16:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-137801-A-1	PDI-10-SO-S7-06182018	Moisture	T	4.30 g	15.16 g	13.08 g			

Batch Notes	
Balance ID	b202613314
Batch Comment	PP-F-4A-18
Date samples were placed in the oven	06/22/2018
Oven Temp In	104 Degrees C
Time samples were place in the oven	10:55
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	15:12
Temperature - Start - Uncorrected	104 Degrees C
Temperature - End - Uncorrected	104 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

NYSC
4[illegible]

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com	Page 1 o
Company: CDM Smith, Inc.		Analysis Requested	Job #: 480-137801 COC
Address: 11 British American Blvd Suite 200	Due Date Requested:		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		Other:
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-10-WG-74-06182018	6/18/18	~~1455~~	G	Water			✓						
	—	1530	—	Water									
FB-06192018	6/19/18	1010	—	Water			✓						Field Blank
POI-11-WG-75-06192018	6/19/18	1255	G	Water			✓						
POI-111-WG-75-06192018	6/19/18	1300	G	Water			✓						
POI-TB-06192018	6/19/18	—	—	Water			✓						Trip Blank
				Water									
				Water									
				Water									
				Water									
				Water									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: [signature]	Date/Time: 6/19/18 1400	Company: CDM	Received by: [signature] Date/Time: 6/19/18 1400 Company: PA
Relinquished by:	Date/Time:	Company:	Received by: [signature] Date/Time: 6/20/18 1200 Company: TA
Relinquished by: [signature]	Date/Time: 6/20/18 1700	Company: ~~PA~~	Received by: [signature] Date/Time: 6/21/18 1040 Company: ~~PA~~
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.5°C #4

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

N... 460201

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Days.			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-10-50-57-061818	6/18/18	1450	G	Solid			✓							
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Frank Robinson	6/19/18 1400	CDM	[signature]	6/19/18 1400	TA
2	Relinquished by:	Date/Time:	Company	Received by: [signature]	Date/Time:	Company
3	[signature]	6/20/18 PM	TA	[signature]	6/21/18 1040	DB

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C #4

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-137801-1

Login Number: 137801
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 6/21/18 @ 11:00
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-137801-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/3/2018 2:23:24 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 14
QC Sample Results 15
QC Association Summary 20
Lab Chronicle 21
Certification Summary 23
Method Summary 24
Sample Summary 25
Chain of Custody 26
Receipt Checklists 28

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Job ID: 480-137801-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-137801-1

Receipt
The samples were received on 6/21/2018 10:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 480-421262 recovered outside acceptance criteria, low biased, for Methyl tert-butyl ether. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: PDI-10-SO-S7-06182018 (480-137801-1).

Method 8260C: The following sample was frozen outside of 48 hours, but analyzed within analytical hold time: PDI-10-SO-S7-06182018 (480-137801-1).

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-421976 recovered above the upper control limit for 2-Butanone, Cyclohexane, Dichlorobromomethane, and Methylcyclohexane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: FB-06192018 (480-137801-2), PDI-11-WG-75-06182018 (480-137801-3), PDI-111-WG-75-06182018 (480-137801-4), PDI-TB-06192018 (480-137801-5) and PDI-10-WG-74-06182018 (480-137801-6).

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-SO-S7-06182018 — Lab Sample ID: 480-137801-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.9	J H	22	1.6	ug/Kg	1	☼	8260C	Total/NA
Acetone	17	J H	22	3.6	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	17	H	4.3	0.95	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: FB-06192018 — Lab Sample ID: 480-137801-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.7		1.0	0.44	ug/L	1		8260C	Total/NA
Acetone	7.3	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-11-WG-75-06182018 — Lab Sample ID: 480-137801-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.40	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.60	J	1.0	0.32	ug/L	1		8260C	Total/NA
Bromoform	0.81	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-111-WG-75-06182018 — Lab Sample ID: 480-137801-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroform	0.42	J	1.0	0.34	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.64	J	1.0	0.32	ug/L	1		8260C	Total/NA
Bromoform	0.63	J	1.0	0.26	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-TB-06192018 — Lab Sample ID: 480-137801-5

No Detections.

Client Sample ID: PDI-10-WG-74-06182018 — Lab Sample ID: 480-137801-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	9.4		1.0	0.46	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-SO-S7-06182018
Date Collected: 06/18/18 14:50
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-1
Matrix: Solid
Percent Solids: 80.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	4.3	0.31	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2,2-Tetrachloroethane	ND	H	4.3	0.70	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	H	4.3	0.99	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1,2-Trichloroethane	ND	H	4.3	0.56	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1-Dichloroethane	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,1-Dichloroethene	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2,4-Trichlorobenzene	ND	H	4.3	0.26	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dibromo-3-Chloropropane	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichlorobenzene	ND	H	4.3	0.34	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichloroethane	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dichloropropane	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,3-Dichlorobenzene	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,4-Dichlorobenzene	ND	H	4.3	0.61	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
2-Butanone (MEK)	**2.9**	**J H**	22	1.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
2-Hexanone	ND	H	22	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
4-Methyl-2-pentanone (MIBK)	ND	H	22	1.4	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Acetone	**17**	**J H**	22	3.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Benzene	ND	H	4.3	0.21	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromoform	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromomethane	ND	H	4.3	0.39	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Carbon disulfide	ND	H	4.3	2.2	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Carbon tetrachloride	ND	H	4.3	0.42	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chlorobenzene	ND	H	4.3	0.57	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Dibromochloromethane	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloroethane	ND	H	4.3	0.98	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloroform	ND	H	4.3	0.27	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Chloromethane	ND	H	4.3	0.26	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
cis-1,2-Dichloroethene	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Cyclohexane	ND	H	4.3	0.61	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Bromodichloromethane	ND	H	4.3	0.58	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Dichlorodifluoromethane	ND	H	4.3	0.36	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Ethylbenzene	ND	H	4.3	0.30	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
1,2-Dibromoethane	ND	H	4.3	0.55	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Isopropylbenzene	ND	H	4.3	0.65	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methyl acetate	ND	H	22	2.6	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methyl tert-butyl ether	ND	H	4.3	0.42	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methylcyclohexane	ND	H	4.3	0.66	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Methylene Chloride	ND	H	4.3	2.0	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Tetrachloroethene	ND	H	4.3	0.58	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Toluene	ND	H	4.3	0.33	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
trans-1,2-Dichloroethene	ND	H	4.3	0.45	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
trans-1,3-Dichloropropene	ND	H	4.3	1.9	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Trichloroethene	**17**	**H**	4.3	0.95	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Trichlorofluoromethane	ND	H	4.3	0.41	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Vinyl chloride	ND	H	4.3	0.53	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Xylenes, Total	ND	H	8.6	0.73	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
cis-1,3-Dichloropropene	ND	H	4.3	0.62	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1
Styrene	ND	H	4.3	0.22	ug/Kg	☼	06/21/18 11:00	06/24/18 11:36	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-SO-S7-06182018

Lab Sample ID: 480-137801-1

Date Collected: 06/18/18 14:50
Matrix: Solid
Date Received: 06/21/18 10:40
Percent Solids: 80.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*108*		*64 - 126*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*06/21/18 11:00*	*06/24/18 11:36*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 140*	*06/21/18 11:00*	*06/24/18 11:36*	*1*

Client Sample ID: FB-06192018

Lab Sample ID: 480-137801-2

Date Collected: 06/19/18 10:10
Matrix: Water
Date Received: 06/21/18 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 23:32	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 23:32	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 23:32	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 23:32	1
Methylene Chloride	**4.7**		1.0	0.44	ug/L			06/27/18 23:32	1
Acetone	**7.3**	**J**	10	3.0	ug/L			06/27/18 23:32	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 23:32	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 23:32	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 23:32	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 23:32	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 23:32	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 23:32	1
Chloroform	ND		1.0	0.34	ug/L			06/27/18 23:32	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 23:32	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 23:32	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 23:32	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 23:32	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 23:32	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 23:32	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 23:32	1
Trichloroethene	ND		1.0	0.46	ug/L			06/27/18 23:32	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/27/18 23:32	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 23:32	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 23:32	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 23:32	1
Bromoform	ND		1.0	0.26	ug/L			06/27/18 23:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 23:32	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 23:32	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 23:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 23:32	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 23:32	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 23:32	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 23:32	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 23:32	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 23:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 23:32	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 23:32	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 23:32	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 23:32	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: FB-06192018
Date Collected: 06/19/18 10:10
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 23:32	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 23:32	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 23:32	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 23:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 23:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 23:32	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 23:32	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 23:32	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*77 - 120*		*06/27/18 23:32*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/27/18 23:32*	*1*
4-Bromofluorobenzene (Surr)	*100*		*73 - 120*		*06/27/18 23:32*	*1*
Dibromofluoromethane (Surr)	*99*		*75 - 123*		*06/27/18 23:32*	*1*

Client Sample ID: PDI-11-WG-75-06182018
Date Collected: 06/19/18 12:55
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 23:55	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 23:55	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 23:55	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 23:55	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/27/18 23:55	1
Acetone	**9.0**	**J**	10	3.0	ug/L			06/27/18 23:55	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 23:55	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 23:55	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 23:55	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 23:55	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 23:55	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 23:55	1
Chloroform	**0.40**	**J**	1.0	0.34	ug/L			06/27/18 23:55	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 23:55	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 23:55	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 23:55	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 23:55	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 23:55	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 23:55	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 23:55	1
Trichloroethene	**13**		1.0	0.46	ug/L			06/27/18 23:55	1
Dibromochloromethane	**0.60**	**J**	1.0	0.32	ug/L			06/27/18 23:55	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 23:55	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 23:55	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 23:55	1
Bromoform	**0.81**	**J**	1.0	0.26	ug/L			06/27/18 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 23:55	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 23:55	1

Client Sample ID: PDI-11-WG-75-06182018

Lab Sample ID: 480-137801-3

Date Collected: 06/19/18 12:55

Matrix: Water

Date Received: 06/21/18 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 23:55	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 23:55	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 23:55	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 23:55	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 23:55	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 23:55	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 23:55	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 23:55	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 23:55	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 23:55	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 23:55	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 23:55	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 23:55	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 23:55	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 23:55	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 23:55	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 23:55	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 23:55	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/27/18 23:55*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/18 23:55*	*1*
4-Bromofluorobenzene (Surr)	*95*		*73 - 120*		*06/27/18 23:55*	*1*
Dibromofluoromethane (Surr)	*102*		*75 - 123*		*06/27/18 23:55*	*1*

Client Sample ID: PDI-111-WG-75-06182018

Lab Sample ID: 480-137801-4

Date Collected: 06/19/18 13:00

Matrix: Water

Date Received: 06/21/18 10:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 00:18	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 00:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 00:18	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 00:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 00:18	1
Acetone	**5.8**	**J**	10	3.0	ug/L			06/28/18 00:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 00:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 00:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 00:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 00:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 00:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 00:18	1
Chloroform	**0.42**	**J**	1.0	0.34	ug/L			06/28/18 00:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 00:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 00:18	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 00:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 00:18	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-111-WG-75-06182018
Date Collected: 06/19/18 13:00
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 00:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 00:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 00:18	1
Trichloroethene	**13**		1.0	0.46	ug/L			06/28/18 00:18	1
Dibromochloromethane	**0.64**	**J**	1.0	0.32	ug/L			06/28/18 00:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 00:18	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 00:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 00:18	1
Bromoform	**0.63**	**J**	1.0	0.26	ug/L			06/28/18 00:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 00:18	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 00:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 00:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 00:18	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 00:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 00:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 00:18	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 00:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 00:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 00:18	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 00:18	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 00:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 00:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 00:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 00:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 00:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 00:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 00:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 00:18	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 00:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 00:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*		*06/28/18 00:18*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/18 00:18*	*1*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*		*06/28/18 00:18*	*1*
Dibromofluoromethane (Surr)	*101*		*75 - 123*		*06/28/18 00:18*	*1*

Client Sample ID: PDI-TB-06192018
Date Collected: 06/19/18 00:00
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 00:41	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 00:41	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 00:41	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 00:41	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 00:41	1
Acetone	ND		10	3.0	ug/L			06/28/18 00:41	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-TB-06192018
Date Collected: 06/19/18 00:00
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 00:41	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 00:41	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 00:41	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 00:41	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 00:41	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 00:41	1
Chloroform	ND		1.0	0.34	ug/L			06/28/18 00:41	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 00:41	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 00:41	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 00:41	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 00:41	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 00:41	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 00:41	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 00:41	1
Trichloroethene	ND		1.0	0.46	ug/L			06/28/18 00:41	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/18 00:41	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 00:41	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 00:41	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 00:41	1
Bromoform	ND		1.0	0.26	ug/L			06/28/18 00:41	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 00:41	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 00:41	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 00:41	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 00:41	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 00:41	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 00:41	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 00:41	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 00:41	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 00:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 00:41	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 00:41	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 00:41	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 00:41	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 00:41	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 00:41	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 00:41	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 00:41	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 00:41	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 00:41	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 00:41	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 00:41	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 00:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*77 - 120*		*06/28/18 00:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/28/18 00:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*73 - 120*		*06/28/18 00:41*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/28/18 00:41*	*1*

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-WG-74-06182018
Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.35	ug/L			06/28/18 01:04	1
Bromomethane	ND		1.0	0.69	ug/L			06/28/18 01:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/28/18 01:04	1
Chloroethane	ND		1.0	0.32	ug/L			06/28/18 01:04	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/28/18 01:04	1
Acetone	**4.8**	**J**	10	3.0	ug/L			06/28/18 01:04	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/28/18 01:04	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/28/18 01:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/28/18 01:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/28/18 01:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/28/18 01:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/28/18 01:04	1
Chloroform	ND		1.0	0.34	ug/L			06/28/18 01:04	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/28/18 01:04	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/28/18 01:04	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/28/18 01:04	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/28/18 01:04	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/28/18 01:04	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/28/18 01:04	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/28/18 01:04	1
Trichloroethene	**9.4**		1.0	0.46	ug/L			06/28/18 01:04	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/28/18 01:04	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/28/18 01:04	1
Benzene	ND		1.0	0.41	ug/L			06/28/18 01:04	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/28/18 01:04	1
Bromoform	ND		1.0	0.26	ug/L			06/28/18 01:04	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/28/18 01:04	1
2-Hexanone	ND		5.0	1.2	ug/L			06/28/18 01:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/28/18 01:04	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/28/18 01:04	1
Toluene	ND		1.0	0.51	ug/L			06/28/18 01:04	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/28/18 01:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/28/18 01:04	1
Styrene	ND		1.0	0.73	ug/L			06/28/18 01:04	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/28/18 01:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/28/18 01:04	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/28/18 01:04	1
Cyclohexane	ND		1.0	0.18	ug/L			06/28/18 01:04	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/28/18 01:04	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/28/18 01:04	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/28/18 01:04	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/28/18 01:04	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/28/18 01:04	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/28/18 01:04	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/28/18 01:04	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/28/18 01:04	1
Methyl acetate	ND		2.5	1.3	ug/L			06/28/18 01:04	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/28/18 01:04	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-WG-74-06182018
Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		06/28/18 01:04	1
Toluene-d8 (Surr)	100		80 - 120		06/28/18 01:04	1
4-Bromofluorobenzene (Surr)	99		73 - 120		06/28/18 01:04	1
Dibromofluoromethane (Surr)	102		75 - 123		06/28/18 01:04	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-137801-1	PDI-10-SO-S7-06182018	108	96	102	101
LCS 480-421273/1-A	Lab Control Sample	96	101	105	100
MB 480-421273/2-A	Method Blank	98	96	103	97

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(77-120)	(80-120)	(73-120)	(75-123)
480-137801-2	FB-06192018	105	101	100	99
480-137801-3	PDI-11-WG-75-06182018	104	99	95	102
480-137801-4	PDI-111-WG-75-06182018	104	101	98	101
480-137801-5	PDI-TB-06192018	106	101	99	103
480-137801-6	PDI-10-WG-74-06182018	102	100	99	102
LCS 480-421976/4	Lab Control Sample	104	102	98	104
MB 480-421976/6	Method Blank	110	99	96	103

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-421273/2-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 421273

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Acetone	ND		25	4.2	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromomethane	ND		5.0	0.45	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Benzene	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromoform	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloroethane	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloroform	ND		5.0	0.31	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
2-Hexanone	ND		25	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chloromethane	ND		5.0	0.30	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Cyclohexane	ND		5.0	0.70	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Toluene	ND		5.0	0.38	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Trichloroethene	ND		5.0	1.1	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Xylenes, Total	ND		10	0.84	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methyl acetate	ND		25	3.0	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		06/24/18 10:19	06/24/18 10:55	1
Styrene	ND		5.0	0.25	ug/Kg		06/24/18 10:19	06/24/18 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 126	06/24/18 10:19	06/24/18 10:55	1
4-Bromofluorobenzene (Surr)	96		72 - 126	06/24/18 10:19	06/24/18 10:55	1
Toluene-d8 (Surr)	103		71 - 125	06/24/18 10:19	06/24/18 10:55	1
Dibromofluoromethane (Surr)	97		60 - 140	06/24/18 10:19	06/24/18 10:55	1

Lab Sample ID: LCS 480-421273/1-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	50.0	48.9		ug/Kg		98	59 - 125
1,1-Dichloroethane	50.0	49.5		ug/Kg		99	73 - 126
1,2-Dichloroethane	50.0	45.5		ug/Kg		91	77 - 122
2-Butanone (MEK)	250	271		ug/Kg		108	70 - 134
1,1,1-Trichloroethane	50.0	44.5		ug/Kg		89	77 - 121
Acetone	250	211		ug/Kg		85	61 - 137
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	75 - 124
Bromomethane	50.0	43.0		ug/Kg		86	37 - 149
Carbon disulfide	50.0	51.0		ug/Kg		102	64 - 131
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	78 - 122
Carbon tetrachloride	50.0	43.0		ug/Kg		86	75 - 135
Benzene	50.0	52.2		ug/Kg		104	79 - 127
Dibromochloromethane	50.0	51.0		ug/Kg		102	76 - 125
Bromoform	50.0	51.5		ug/Kg		103	68 - 126
Chloroethane	50.0	42.6		ug/Kg		85	69 - 135
4-Methyl-2-pentanone (MIBK)	250	272		ug/Kg		109	65 - 133
Chloroform	50.0	48.5		ug/Kg		97	80 - 120
2-Hexanone	250	268		ug/Kg		107	59 - 130
Chloromethane	50.0	44.6		ug/Kg		89	63 - 127
cis-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	81 - 120
1,1,2,2-Tetrachloroethane	50.0	52.0		ug/Kg		104	80 - 120
Bromodichloromethane	50.0	49.0		ug/Kg		98	80 - 122
Chlorobenzene	50.0	51.4		ug/Kg		103	76 - 124
Ethylbenzene	50.0	51.3		ug/Kg		103	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	44.2		ug/Kg		88	60 - 140
Methyl tert-butyl ether	50.0	46.3		ug/Kg		93	63 - 125
Methylene Chloride	50.0	51.8		ug/Kg		104	61 - 127
Cyclohexane	50.0	45.8		ug/Kg		92	65 - 120
Tetrachloroethene	50.0	49.9		ug/Kg		100	74 - 122
1,2-Dibromoethane	50.0	51.0		ug/Kg		102	78 - 120
Toluene	50.0	51.7		ug/Kg		103	74 - 128
1,3-Dichlorobenzene	50.0	51.2		ug/Kg		102	74 - 120
1,4-Dichlorobenzene	50.0	50.7		ug/Kg		101	73 - 120
trans-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	78 - 126
1,2-Dichlorobenzene	50.0	50.1		ug/Kg		100	75 - 120
trans-1,3-Dichloropropene	50.0	48.8		ug/Kg		98	73 - 123
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	57 - 142
Trichloroethene	50.0	49.2		ug/Kg		98	77 - 129
1,2,4-Trichlorobenzene	50.0	50.1		ug/Kg		100	64 - 120
Trichlorofluoromethane	50.0	43.4		ug/Kg		87	65 - 146
1,2-Dibromo-3-Chloropropane	50.0	50.8		ug/Kg		102	63 - 124
Vinyl chloride	50.0	43.2		ug/Kg		86	61 - 133
Isopropylbenzene	50.0	50.8		ug/Kg		102	72 - 120

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

Lab Sample ID: LCS 480-421273/1-A
Matrix: Solid
Analysis Batch: 421262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 421273

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	50.0	49.0		ug/Kg		98	80 - 120
Methyl acetate	100	120		ug/Kg		120	55 - 136
Methylcyclohexane	50.0	45.4		ug/Kg		91	60 - 140
Styrene	50.0	51.1		ug/Kg		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*64 - 126*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*
Toluene-d8 (Surr)	*105*		*71 - 125*
Dibromofluoromethane (Surr)	*100*		*60 - 140*

Lab Sample ID: MB 480-421976/6
Matrix: Water
Analysis Batch: 421976

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		1.0	0.29	ug/L			06/27/18 21:24	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			06/27/18 21:24	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			06/27/18 21:24	1
2-Butanone (MEK)	ND		10	1.3	ug/L			06/27/18 21:24	1
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			06/27/18 21:24	1
Acetone	ND		10	3.0	ug/L			06/27/18 21:24	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			06/27/18 21:24	1
Bromomethane	ND		1.0	0.69	ug/L			06/27/18 21:24	1
Carbon disulfide	ND		1.0	0.19	ug/L			06/27/18 21:24	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			06/27/18 21:24	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			06/27/18 21:24	1
Benzene	ND		1.0	0.41	ug/L			06/27/18 21:24	1
Dibromochloromethane	ND		1.0	0.32	ug/L			06/27/18 21:24	1
Bromoform	ND		1.0	0.26	ug/L			06/27/18 21:24	1
Chloroethane	ND		1.0	0.32	ug/L			06/27/18 21:24	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			06/27/18 21:24	1
Chloroform	ND		1.0	0.34	ug/L			06/27/18 21:24	1
2-Hexanone	ND		5.0	1.2	ug/L			06/27/18 21:24	1
Chloromethane	ND		1.0	0.35	ug/L			06/27/18 21:24	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			06/27/18 21:24	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			06/27/18 21:24	1
Bromodichloromethane	ND		1.0	0.39	ug/L			06/27/18 21:24	1
Chlorobenzene	ND		1.0	0.75	ug/L			06/27/18 21:24	1
Ethylbenzene	ND		1.0	0.74	ug/L			06/27/18 21:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/27/18 21:24	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			06/27/18 21:24	1
Methylene Chloride	ND		1.0	0.44	ug/L			06/27/18 21:24	1
Cyclohexane	ND		1.0	0.18	ug/L			06/27/18 21:24	1
Tetrachloroethene	ND		1.0	0.36	ug/L			06/27/18 21:24	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			06/27/18 21:24	1
Toluene	ND		1.0	0.51	ug/L			06/27/18 21:24	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			06/27/18 21:24	1

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

Lab Sample ID: MB 480-421976/6
Matrix: Water
Analysis Batch: 421976

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			06/27/18 21:24	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			06/27/18 21:24	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			06/27/18 21:24	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			06/27/18 21:24	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			06/27/18 21:24	1
Trichloroethene	ND		1.0	0.46	ug/L			06/27/18 21:24	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			06/27/18 21:24	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			06/27/18 21:24	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			06/27/18 21:24	1
Vinyl chloride	ND		1.0	0.90	ug/L			06/27/18 21:24	1
Isopropylbenzene	ND		1.0	0.79	ug/L			06/27/18 21:24	1
Xylenes, Total	ND		2.0	0.66	ug/L			06/27/18 21:24	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			06/27/18 21:24	1
Methyl acetate	ND		2.5	1.3	ug/L			06/27/18 21:24	1
Methylcyclohexane	ND		1.0	0.16	ug/L			06/27/18 21:24	1
Styrene	ND		1.0	0.73	ug/L			06/27/18 21:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*77 - 120*		*06/27/18 21:24*	*1*
4-Bromofluorobenzene (Surr)	*96*		*73 - 120*		*06/27/18 21:24*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*06/27/18 21:24*	*1*
Dibromofluoromethane (Surr)	*103*		*75 - 123*		*06/27/18 21:24*	*1*

Lab Sample ID: LCS 480-421976/4
Matrix: Water
Analysis Batch: 421976

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	25.0	30.6		ug/L		122	66 - 127
1,1-Dichloroethane	25.0	27.7		ug/L		111	77 - 120
1,2-Dichloroethane	25.0	27.0		ug/L		108	75 - 120
2-Butanone (MEK)	125	154		ug/L		123	57 - 140
1,1,1-Trichloroethane	25.0	27.9		ug/L		112	73 - 126
Acetone	125	138		ug/L		111	56 - 142
1,2-Dichloropropane	25.0	25.9		ug/L		103	76 - 120
Bromomethane	25.0	26.9		ug/L		108	55 - 144
Carbon disulfide	25.0	28.4		ug/L		114	59 - 134
1,1,2-Trichloroethane	25.0	27.5		ug/L		110	76 - 122
Carbon tetrachloride	25.0	29.6		ug/L		119	72 - 134
Benzene	25.0	26.9		ug/L		108	71 - 124
Dibromochloromethane	25.0	28.2		ug/L		113	75 - 125
Bromoform	25.0	28.4		ug/L		114	61 - 132
Chloroethane	25.0	26.8		ug/L		107	69 - 136
4-Methyl-2-pentanone (MIBK)	125	146		ug/L		117	71 - 125
Chloroform	25.0	26.9		ug/L		108	73 - 127
2-Hexanone	125	146		ug/L		117	65 - 127
Chloromethane	25.0	26.0		ug/L		104	68 - 124
cis-1,2-Dichloroethene	25.0	27.4		ug/L		110	74 - 124

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

Lab Sample ID: LCS 480-421976/4
Matrix: Water
Analysis Batch: 421976

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	28.5		ug/L		114	76 - 120
Bromodichloromethane	25.0	28.4		ug/L		114	80 - 122
Chlorobenzene	25.0	27.2		ug/L		109	80 - 120
Ethylbenzene	25.0	27.8		ug/L		111	77 - 123
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	28.1		ug/L		112	61 - 148
Methyl tert-butyl ether	25.0	27.2		ug/L		109	77 - 120
Methylene Chloride	25.0	25.9		ug/L		104	75 - 124
Cyclohexane	25.0	30.1		ug/L		120	59 - 135
Tetrachloroethene	25.0	27.9		ug/L		112	74 - 122
1,2-Dibromoethane	25.0	28.6		ug/L		114	77 - 120
Toluene	25.0	27.2		ug/L		109	80 - 122
1,3-Dichlorobenzene	25.0	27.7		ug/L		111	77 - 120
1,4-Dichlorobenzene	25.0	27.7		ug/L		111	80 - 120
trans-1,2-Dichloroethene	25.0	27.8		ug/L		111	73 - 127
1,2-Dichlorobenzene	25.0	26.9		ug/L		108	80 - 124
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Dichlorodifluoromethane	25.0	27.3		ug/L		109	59 - 135
Trichloroethene	25.0	27.5		ug/L		110	74 - 123
1,2,4-Trichlorobenzene	25.0	28.5		ug/L		114	79 - 122
Trichlorofluoromethane	25.0	29.9		ug/L		119	62 - 150
1,2-Dibromo-3-Chloropropane	25.0	28.4		ug/L		114	56 - 134
Vinyl chloride	25.0	27.2		ug/L		109	65 - 133
Isopropylbenzene	25.0	28.5		ug/L		114	77 - 122
cis-1,3-Dichloropropene	25.0	27.2		ug/L		109	74 - 124
Methyl acetate	50.0	61.1		ug/L		122	74 - 133
Methylcyclohexane	25.0	30.9		ug/L		124	68 - 134
Styrene	25.0	27.3		ug/L		109	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*104*		*77 - 120*
4-Bromofluorobenzene (Surr)	*98*		*73 - 120*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*75 - 123*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

GC/MS VOA

Analysis Batch: 421262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	8260C	421273
MB 480-421273/2-A	Method Blank	Total/NA	Solid	8260C	421273
LCS 480-421273/1-A	Lab Control Sample	Total/NA	Solid	8260C	421273

Prep Batch: 421273

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	5035A_L	
MB 480-421273/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-421273/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

Analysis Batch: 421976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-2	FB-06192018	Total/NA	Water	8260C	
480-137801-3	PDI-11-WG-75-06182018	Total/NA	Water	8260C	
480-137801-4	PDI-111-WG-75-06182018	Total/NA	Water	8260C	
480-137801-5	PDI-TB-06192018	Total/NA	Water	8260C	
480-137801-6	PDI-10-WG-74-06182018	Total/NA	Water	8260C	
MB 480-421976/6	Method Blank	Total/NA	Water	8260C	
LCS 480-421976/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 421044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-137801-1	PDI-10-SO-S7-06182018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-SO-S7-06182018 — **Lab Sample ID: 480-137801-1**
Date Collected: 06/18/18 14:50 — **Matrix: Solid**
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	421044	06/22/18 10:28	LMS	TAL BUF

Client Sample ID: PDI-10-SO-S7-06182018 — **Lab Sample ID: 480-137801-1**
Date Collected: 06/18/18 14:50 — **Matrix: Solid**
Date Received: 06/21/18 10:40 — **Percent Solids: 80.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			421273	06/21/18 11:00	AMM	TAL BUF
Total/NA	Analysis	8260C		1	421262	06/24/18 11:36	AMM	TAL BUF

Client Sample ID: FB-06192018 — **Lab Sample ID: 480-137801-2**
Date Collected: 06/19/18 10:10 — **Matrix: Water**
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/27/18 23:32	NMC	TAL BUF

Client Sample ID: PDI-11-WG-75-06182018 — **Lab Sample ID: 480-137801-3**
Date Collected: 06/19/18 12:55 — **Matrix: Water**
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/27/18 23:55	NMC	TAL BUF

Client Sample ID: PDI-111-WG-75-06182018 — **Lab Sample ID: 480-137801-4**
Date Collected: 06/19/18 13:00 — **Matrix: Water**
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 00:18	NMC	TAL BUF

Client Sample ID: PDI-TB-06192018 — **Lab Sample ID: 480-137801-5**
Date Collected: 06/19/18 00:00 — **Matrix: Water**
Date Received: 06/21/18 10:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 00:41	NMC	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Client Sample ID: PDI-10-WG-74-06182018
Date Collected: 06/18/18 15:30
Date Received: 06/21/18 10:40

Lab Sample ID: 480-137801-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	421976	06/28/18 01:04	NMC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137801-1	PDI-10-SO-S7-06182018	Solid	06/18/18 14:50	06/21/18 10:40
480-137801-2	FB-06192018	Water	06/19/18 10:10	06/21/18 10:40
480-137801-3	PDI-11-WG-75-06182018	Water	06/19/18 12:55	06/21/18 10:40
480-137801-4	PDI-111-WG-75-06182018	Water	06/19/18 13:00	06/21/18 10:40
480-137801-5	PDI-TB-06192018	Water	06/19/18 00:00	06/21/18 10:40
480-137801-6	PDI-10-WG-74-06182018	Water	06/18/18 15:30	06/21/18 10:40

NYSC
46[illegible]

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com

Page 1 o

Company: CDM Smith, Inc.		Job #: 480-137801 COC
Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days): 14 Days	
State, Zip: NY, 12110		
Phone:	PO #: 77861	
Email: picunasae@cdmsmith.com	WO #:	
Project Name: Former Aluminum Louvre	Project #: 48016917	
Site:	SSOW#:	

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	A	N		
POI-10-WG-711-0618 2018	6/18/18	~~14~~ 15	G	Water			✓						
		1530		Water									
FB-06192018	6/19/18	1010		Water			✓						Field Blank
POI-11-WG-75-06192018	6/19/18	1255	G	Water			✓						
POI-111-WG-75-06192018	6/19/18	1300	G	Water			✓						
POI-TB-06192018	6/19/18	—	—	Water			✓						Trip Blank
				Water									
				Water									
				Water									
				Water									
				Water									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 6/19/18 1400	Company CDM	Received by:	Date/Time: 6/19/18 1400	Company FDX
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 6/20/18 1200	Company DA
Relinquished by:	Date/Time: 6/21/18 1700	Company FDX	Received by:	Date/Time: 6/21/18 1040	Company FDX

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C #4

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

N.C 460301

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Days.			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-10-50-57-061818	6/18/18	1450	G	Solid			✓							
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	6/19/18 1400	CDM	[signature]	6/19/18 1400	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by: [signature]	Date/Time: 6/20/18 [illegible]	Company TA	Received by: [signature]	Date/Time: 6/21/18 1040	Company [illegible]

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C #4

Ver: 08/04/2016

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-137801-1

Login Number: 137801

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 6/21/18 @ 11:00
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

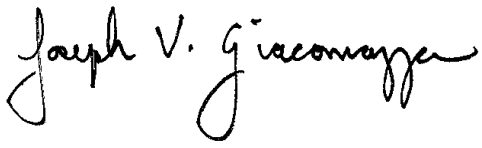
ANALYTICAL REPORT

Job Number: 480-139579-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas



Approved for release.
Joe V Giacomazza
Project Management Assistant II
8/10/2018 12:35 PM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
08/10/2018

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 8

Client Sample Results 9

Surrogate Summary 23

QC Sample Results 24

Definitions 37

QC Association 38

Chronicle 40

Certification Summary 43

Organic Sample Data 44

GC/MS VOA 44

Method 8260C 44

Method 8260C QC Summary 45

Method 8260C Sample Data 77

Standards Data 164

Method 8260C ICAL Data 164

Method 8260C CCAL Data 326

Raw QC Data 366

Method 8260C Tune Data 366

Method 8260C Blank Data 387

Method 8260C LCS/LCSD Data 407

Method 8260C MS/MSD Data 428

Table of Contents

Method 8260C Run Logs 454

Method 8260C Prep Data 460

GC/MS Semi VOA 465

8270_SIM_14DX 465

8270_SIM_14DX QC Summary 466

8270_SIM_14DX Sample Data 473

Standards Data 488

8270_SIM_14DX ICAL Data 488

8270_SIM_14DX CCAL Data 508

Raw QC Data 513

8270_SIM_14DX Tune Data 513

8270_SIM_14DX Blank Data 526

8270_SIM_14DX LCS/LCSD Data 530

8270_SIM_14DX MS/MSD Data 534

8270_SIM_14DX Run Logs 542

8270_SIM_14DX Prep Data 544

Inorganic Sample Data 546

General Chemistry Data 546

Gen Chem Cover Page 547

Gen Chem MDL 548

Gen Chem Analysis Run Log 550

Gen Chem Prep Data 551

Subcontracted Data 552

Shipping and Receiving Documents 553

Client Chain of Custody 554

Sample Receipt Checklist 558

Job Narrative
480-139579-1

Comments
No additional comments.

Receipt
The samples were received on 7/26/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0º C, 3.7º C and 3.9º C.

Receipt Exceptions
The following samples were preserved via freezing on 07/26/18 at 1800: PD1-23-SO-18-20180725 (480-139579-5), PDI-123-SO-18-20180725 (480-139579-6), PDI-24-SO-18-20180725 (480-139579-7), PDI-25-SO-14-20180725 (480-139579-8), PDI-25-SO-14-20180725 (480-139579-8[MS]) and PDI-25-SO-14-20180725 (480-139579-8[MSD]) .

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-427843 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane, Chloromethane and Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following samples are impacted: PD1-23-SO-18-20180725 (480-139579-5), PDI-123-SO-18-20180725 (480-139579-6) and PDI-24-SO-18-20180725 (480-139579-7).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-541225 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-541225 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-541118 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-541118 recovered outside control limits for Methyl acetate. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-139579-1	MW-161-4-20180724	Water	07/24/18 10:10	07/26/18 09:50
480-139579-2	MW-1161-4-20180724	Water	07/24/18 10:15	07/26/18 09:50
480-139579-3	TB-20180724	Water	07/24/18 08:00	07/26/18 09:50
480-139579-4	FB-20180724	Water	07/24/18 11:45	07/26/18 09:50
480-139579-5	PD1-23-SO-18-20180725	Solid	07/25/18 08:30	07/26/18 09:50
480-139579-6	PDI-123-SO-18-20180725	Solid	07/25/18 08:40	07/26/18 09:50
480-139579-7	PDI-24-SO-18-20180725	Solid	07/25/18 08:50	07/26/18 09:50
480-139579-8	PDI-25-SO-14-20180725	Solid	07/25/18 09:30	07/26/18 09:50
480-139579-9	FB-20180725	Water	07/25/18 09:00	07/26/18 09:50
480-139579-10	MW-161-3-20180725	Water	07/25/18 12:25	07/26/18 09:50
480-139579-11	TB-20180725	Water	07/25/18 08:00	07/26/18 09:50

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-4-20180724 — Lab Sample ID: 480-139579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.46	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.4		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	51		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.61	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1161-4-20180724 — Lab Sample ID: 480-139579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.48	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.5		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	52		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.71	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: TB-20180724 — Lab Sample ID: 480-139579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		5.0	5.0	ug/L	1		8260C	Total/NA
Toluene	0.48	J	1.0	0.38	ug/L	1		8260C	Total/NA

Client Sample ID: FB-20180724 — Lab Sample ID: 480-139579-4

No Detections.

Client Sample ID: PD1-23-SO-18-20180725 — Lab Sample ID: 480-139579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	23	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	3.2	J	4.5	0.99	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-123-SO-18-20180725 — Lab Sample ID: 480-139579-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	25	4.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	4.3	J	5.0	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-24-SO-18-20180725 — Lab Sample ID: 480-139579-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	24	4.1	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.91	J	4.9	0.65	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	20		4.9	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-25-SO-14-20180725 — Lab Sample ID: 480-139579-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J F1	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.5	J	4.6	1.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: FB-20180725 — Lab Sample ID: 480-139579-9

No Detections.

Client Sample ID: MW-161-3-20180725 — Lab Sample ID: 480-139579-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.59	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.0		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	54	F1	1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.76	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: TB-20180725 — Lab Sample ID: 480-139579-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
Toluene	0.53	J	1.0	0.38	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: MW-161-4-20180724

Date Collected: 07/24/18 10:10
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.46**	**J**	1.0	0.24	ug/L			08/01/18 11:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 11:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 11:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 11:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 11:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 11:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 11:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 11:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 11:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 11:59	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 11:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 11:59	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 11:59	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 11:59	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 11:59	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 11:59	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 11:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 11:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 11:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 11:59	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 11:59	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 11:59	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.22	ug/L			08/01/18 11:59	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 11:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 11:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 11:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 11:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 11:59	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 11:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 11:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 11:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Tetrachloroethene	**3.4**		1.0	0.25	ug/L			08/01/18 11:59	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 11:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 11:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 11:59	1
Trichloroethene	**51**		1.0	0.31	ug/L			08/01/18 11:59	1
Trichlorofluoromethane	**0.61**	**J**	1.0	0.14	ug/L			08/01/18 11:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 11:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 11:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 11:59	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 11:59	1

Client Sample ID: MW-161-4-20180724

Lab Sample ID: 480-139579-1

Date Collected: 07/24/18 10:10

Matrix: Water

Date Received: 07/26/18 09:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 11:59*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 11:59*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/01/18 11:59*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 11:59*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:04	1

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.48**	**J**	1.0	0.24	ug/L			08/01/18 01:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:30	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:30	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:30	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:30	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:30	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:30	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:30	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:30	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 01:30	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 01:30	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:30	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:30	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:30	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:30	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:30	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:30	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:30	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:30	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.22	ug/L			08/01/18 01:30	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:30	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:30	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:30	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:30	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 01:30	1

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:30	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:30	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Tetrachloroethene	**3.5**		1.0	0.25	ug/L			08/01/18 01:30	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 01:30	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:30	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:30	1
Trichloroethene	**52**		1.0	0.31	ug/L			08/01/18 01:30	1
Trichlorofluoromethane	**0.71**	**J**	1.0	0.14	ug/L			08/01/18 01:30	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:30	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:30	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:30	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 01:30*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*08/01/18 01:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/01/18 01:30*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 01:30*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:25	1

Client Sample ID: TB-20180724

Lab Sample ID: 480-139579-3

Date Collected: 07/24/18 08:00

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/31/18 23:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/31/18 23:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/31/18 23:03	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/31/18 23:03	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/31/18 23:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/31/18 23:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/31/18 23:03	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/31/18 23:03	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/31/18 23:03	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/31/18 23:03	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/31/18 23:03	1
2-Hexanone	ND		5.0	2.9	ug/L			07/31/18 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/31/18 23:03	1
Acetone	**13**		5.0	5.0	ug/L			07/31/18 23:03	1
Benzene	ND		1.0	0.43	ug/L			07/31/18 23:03	1
Bromoform	ND		1.0	0.54	ug/L			07/31/18 23:03	1
Bromomethane	ND		1.0	1.0	ug/L			07/31/18 23:03	1

Client Sample ID: TB-20180724

Date Collected: 07/24/18 08:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/31/18 23:03	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/31/18 23:03	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/31/18 23:03	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/31/18 23:03	1
Chloroethane	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Chloroform	ND		1.0	0.33	ug/L			07/31/18 23:03	1
Chloromethane	ND		1.0	0.14	ug/L			07/31/18 23:03	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/31/18 23:03	1
Cyclohexane	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/31/18 23:03	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/31/18 23:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/31/18 23:03	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/31/18 23:03	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/31/18 23:03	1
Methyl acetate	ND	*	5.0	0.31	ug/L			07/31/18 23:03	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/31/18 23:03	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/31/18 23:03	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/31/18 23:03	1
Toluene	**0.48**	**J**	1.0	0.38	ug/L			07/31/18 23:03	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/31/18 23:03	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/31/18 23:03	1
Trichloroethene	ND		1.0	0.31	ug/L			07/31/18 23:03	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/31/18 23:03	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/18 23:03	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/31/18 23:03	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/31/18 23:03	1
Styrene	ND		1.0	0.42	ug/L			07/31/18 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/31/18 23:03*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/31/18 23:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/31/18 23:03*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*07/31/18 23:03*	*1*

Client Sample ID: FB-20180724

Date Collected: 07/24/18 11:45
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 00:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 00:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 00:20	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:20	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 00:20	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 00:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 00:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 00:20	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 00:20	1

Client Sample ID: FB-20180724

Date Collected: 07/24/18 11:45
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:20	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 00:20	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 00:20	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 00:20	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 00:20	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 00:20	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 00:20	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 00:20	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 00:20	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 00:20	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 00:20	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 00:20	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 00:20	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 00:20	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 00:20	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 00:20	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 00:20	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 00:20	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 00:20	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 00:20	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 00:20	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 00:20	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 00:20	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 00:20	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 00:20	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 00:20	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 00:20	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 00:20	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 00:20	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 00:20	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 00:20	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 00:20	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 00:20	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 00:20	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*		*08/01/18 00:20*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 00:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 00:20*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*08/01/18 00:20*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:47	1

Client Sample ID: PD1-23-SO-18-20180725

Date Collected: 07/25/18 08:30
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-5

Matrix: Solid
Percent Solids: 76.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2-Trichloroethane	ND		4.5	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichloroethane	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichloropropane	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Acetone	**18**	**J**	23	3.8	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Benzene	ND		4.5	0.22	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromoform	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromomethane	ND		4.5	0.41	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Carbon disulfide	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Carbon tetrachloride	ND		4.5	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chlorobenzene	ND		4.5	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Dibromochloromethane	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
cis-1,2-Dichloroethene	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dibromoethane	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methyl acetate	ND		23	2.7	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methylcyclohexane	ND		4.5	0.69	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Tetrachloroethene	ND		4.5	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Toluene	ND		4.5	0.34	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
trans-1,2-Dichloroethene	ND		4.5	0.47	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Trichloroethene	**3.2**	**J**	4.5	0.99	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Trichlorofluoromethane	ND		4.5	0.43	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
cis-1,3-Dichloropropene	ND		4.5	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Styrene	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1

Client Sample ID: PD1-23-SO-18-20180725

Lab Sample ID: 480-139579-5

Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*07/26/18 18:00*	*08/03/18 01:39*	*1*

Client Sample ID: PDI-123-SO-18-20180725

Lab Sample ID: 480-139579-6

Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.82	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Acetone	**12**	**J**	25	4.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Benzene	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Carbon tetrachloride	ND		5.0	0.49	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Dichlorodifluoromethane	ND		5.0	0.42	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Ethylbenzene	ND		5.0	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dibromoethane	ND		5.0	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Isopropylbenzene	ND		5.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methylene Chloride	ND		5.0	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1

Client Sample ID: PDI-123-SO-18-20180725

Lab Sample ID: 480-139579-6
Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Trichloroethene	**4.3**	**J**	5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Trichlorofluoromethane	ND		5.0	0.48	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Styrene	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*07/26/18 18:00*	*08/03/18 02:05*	*1*

Client Sample ID: PDI-24-SO-18-20180725

Lab Sample ID: 480-139579-7
Date Collected: 07/25/18 08:50
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 75.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichloroethane	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Acetone	**17**	**J**	24	4.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Benzene	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chlorobenzene	ND		4.9	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Dibromochloromethane	ND		4.9	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloromethane	ND		4.9	0.29	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
cis-1,2-Dichloroethene	ND		4.9	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1

Client Sample ID: PDI-24-SO-18-20180725 — Lab Sample ID: 480-139579-7

Date Collected: 07/25/18 08:50 — **Matrix: Solid**
Date Received: 07/26/18 09:50 — **Percent Solids: 75.2**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.9	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Isopropylbenzene	ND		4.9	0.73	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methylene Chloride	ND		4.9	2.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Tetrachloroethene	**0.91**	**J**	4.9	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Toluene	ND		4.9	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Trichloroethene	**20**		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Xylenes, Total	ND		9.7	0.82	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Styrene	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*07/26/18 18:00*	*08/03/18 02:31*	*1*

Client Sample ID: PDI-25-SO-14-20180725 — Lab Sample ID: 480-139579-8

Date Collected: 07/25/18 09:30 — **Matrix: Solid**
Date Received: 07/26/18 09:50 — **Percent Solids: 78.2**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	4.6	0.33	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2,2-Tetrachloroethane	ND	F1	4.6	0.75	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichloroethane	ND	F1	4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,4-Dichlorobenzene	ND		4.6	0.65	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
2-Butanone (MEK)	ND	F1	23	1.7	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Acetone	**13**	**J F1**	23	3.9	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1

Client Sample ID: PDI-25-SO-14-20180725

Lab Sample ID: 480-139579-8

Date Collected: 07/25/18 09:30
Date Received: 07/26/18 09:50

Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Carbon tetrachloride	ND	F1	4.6	0.45	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloroform	ND	F1	4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloromethane	ND	F1	4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Cyclohexane	ND		4.6	0.65	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Dichlorodifluoromethane	ND	F1	4.6	0.38	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dibromoethane	ND	F1	4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Isopropylbenzene	ND		4.6	0.70	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Toluene	ND		4.6	0.35	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
trans-1,2-Dichloroethene	ND		4.6	0.48	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Trichloroethene	**2.5**	**J**	4.6	1.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Styrene	ND		4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*07/26/18 18:00*	*08/02/18 19:31*	*1*

Client Sample ID: FB-20180725

Lab Sample ID: 480-139579-9

Date Collected: 07/25/18 09:00
Date Received: 07/26/18 09:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 00:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 00:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 00:44	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 00:44	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 00:44	1

Client Sample ID: FB-20180725

Date Collected: 07/25/18 09:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 00:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 00:44	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 00:44	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 00:44	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 00:44	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 00:44	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 00:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 00:44	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 00:44	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 00:44	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 00:44	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 00:44	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 00:44	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 00:44	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 00:44	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 00:44	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 00:44	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 00:44	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 00:44	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 00:44	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 00:44	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 00:44	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 00:44	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 00:44	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 00:44	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 00:44	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 00:44	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 00:44	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 00:44	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 00:44	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 00:44	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 00:44	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 00:44	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 00:44	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 00:44	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 00:44	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 00:44*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 00:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/01/18 00:44*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*08/01/18 00:44*	*1*

Client Sample ID: MW-161-3-20180725

Date Collected: 07/25/18 12:25
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-10

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.59**	**J**	1.0	0.24	ug/L			08/01/18 01:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:53	1
1,1,2-Trichloroethane	ND	F1	1.0	0.43	ug/L			08/01/18 01:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:53	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:53	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 01:53	1
Benzene	ND	F1	1.0	0.43	ug/L			08/01/18 01:53	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:53	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:53	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:53	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.22	ug/L			08/01/18 01:53	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:53	1
Methyl acetate	ND	* F1	5.0	0.31	ug/L			08/01/18 01:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Tetrachloroethene	**4.0**		1.0	0.25	ug/L			08/01/18 01:53	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 01:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:53	1
Trichloroethene	**54**	**F1**	1.0	0.31	ug/L			08/01/18 01:53	1
Trichlorofluoromethane	**0.76**	**J**	1.0	0.14	ug/L			08/01/18 01:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:53	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:53	1

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10

Date Collected: 07/25/18 12:25

Matrix: Water

Date Received: 07/26/18 09:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*08/01/18 01:53*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*08/01/18 01:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 01:53*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 01:53*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 00:40	1

Client Sample ID: TB-20180725

Lab Sample ID: 480-139579-11

Date Collected: 07/25/18 08:00

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 01:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:07	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:07	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:07	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:07	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:07	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:07	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:07	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:07	1
Acetone	**12**		5.0	5.0	ug/L			08/01/18 01:07	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 01:07	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:07	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:07	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:07	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:07	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:07	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:07	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:07	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:07	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 01:07	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:07	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:07	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:07	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:07	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 01:07	1

Client Sample ID: TB-20180725

Date Collected: 07/25/18 08:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:07	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:07	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 01:07	1
Toluene	**0.53**	**J**	1.0	0.38	ug/L			08/01/18 01:07	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:07	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:07	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 01:07	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 01:07	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:07	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:07	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:07	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 01:07*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*08/01/18 01:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/01/18 01:07*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*08/01/18 01:07*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-139579-5	PD1-23-SO-18-20180725	101	97	99	93
480-139579-6	PDI-123-SO-18-20180725	100	96	100	92
480-139579-7	PDI-24-SO-18-20180725	103	96	99	93
480-139579-8	PDI-25-SO-14-20180725	101	95	99	94
480-139579-8 MS	PDI-25-SO-14-20180725	89	96	101	94
480-139579-8 MSD	PDI-25-SO-14-20180725	90	97	101	95
LCS 480-427697/23-A	Lab Control Sample	95	96	102	94
MB 480-427697/2-A	Method Blank	98	93	101	94

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
480-139579-1	MW-161-4-20180724	110	92	98	99
480-139579-2	MW-1161-4-20180724	110	94	101	99
480-139579-3	TB-20180724	110	89	97	100
480-139579-4	FB-20180724	108	92	99	97
480-139579-9	FB-20180725	110	92	98	97
480-139579-10	MW-161-3-20180725	112	91	99	99
480-139579-10 MS	MW-161-3-20180725	102	98	100	96
480-139579-10 MSD	MW-161-3-20180725	103	93	97	96
480-139579-11	TB-20180725	110	94	97	100
LCS 460-541118/4	Lab Control Sample	102	95	97	92
LCS 460-541225/4	Lab Control Sample	102	93	97	93
MB 460-541118/8	Method Blank	110	93	98	98
MB 460-541225/8	Method Blank	112	89	99	100

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-427697/2-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
2-Hexanone	ND		25	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Acetone	ND		25	4.2	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Benzene	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromoform	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromomethane	ND		5.0	0.45	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloroethane	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloroform	ND		5.0	0.31	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloromethane	ND		5.0	0.30	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Cyclohexane	ND		5.0	0.70	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methyl acetate	ND		25	3.0	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Toluene	ND		5.0	0.38	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Trichloroethene	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Xylenes, Total	ND		10	0.84	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Styrene	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*08/02/18 08:35*	*08/02/18 12:59*	*1*

Lab Sample ID: LCS 480-427697/23-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/Kg		114	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5		ug/Kg		97	60 - 140
1,1,2-Trichloroethane	50.0	55.7		ug/Kg		111	78 - 122
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	73 - 126
1,1-Dichloroethene	50.0	51.8		ug/Kg		104	59 - 125
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/Kg		91	63 - 124
1,2-Dichlorobenzene	50.0	53.1		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.0	48.2		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	57.4		ug/Kg		115	75 - 124
1,3-Dichlorobenzene	50.0	55.3		ug/Kg		111	74 - 120
1,4-Dichlorobenzene	50.0	54.4		ug/Kg		109	73 - 120
2-Butanone (MEK)	250	278		ug/Kg		111	70 - 134
2-Hexanone	250	283		ug/Kg		113	59 - 130
4-Methyl-2-pentanone (MIBK)	250	282		ug/Kg		113	65 - 133
Acetone	250	231		ug/Kg		92	61 - 137
Benzene	50.0	55.6		ug/Kg		111	79 - 127
Bromoform	50.0	55.8		ug/Kg		112	68 - 126
Bromomethane	50.0	49.1		ug/Kg		98	37 - 149
Carbon disulfide	50.0	48.8		ug/Kg		98	64 - 131
Carbon tetrachloride	50.0	48.8		ug/Kg		98	75 - 135
Chlorobenzene	50.0	55.5		ug/Kg		111	76 - 124
Dibromochloromethane	50.0	56.0		ug/Kg		112	76 - 125
Chloroethane	50.0	51.6		ug/Kg		103	69 - 135
Chloroform	50.0	51.0		ug/Kg		102	80 - 120
Chloromethane	50.0	48.1		ug/Kg		96	63 - 127
cis-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	81 - 120
Cyclohexane	50.0	54.2		ug/Kg		108	65 - 120
Bromodichloromethane	50.0	52.8		ug/Kg		106	80 - 122
Dichlorodifluoromethane	50.0	46.3		ug/Kg		93	57 - 142
Ethylbenzene	50.0	56.3		ug/Kg		113	80 - 120
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	78 - 120
Isopropylbenzene	50.0	56.6		ug/Kg		113	72 - 120
Methyl acetate	100	125		ug/Kg		125	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	52.4		ug/Kg		105	60 - 140
Methylene Chloride	50.0	49.7		ug/Kg		99	61 - 127
Tetrachloroethene	50.0	54.7		ug/Kg		109	74 - 122
Toluene	50.0	56.1		ug/Kg		112	74 - 128
trans-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	73 - 123
Trichloroethene	50.0	53.2		ug/Kg		106	77 - 129

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

Lab Sample ID: LCS 480-427697/23-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	49.4		ug/Kg		99	65 - 146
Vinyl chloride	50.0	51.2		ug/Kg		102	61 - 133
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	80 - 120
Styrene	50.0	55.4		ug/Kg		111	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

Lab Sample ID: 480-139579-8 MS
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1	45.3	31.3	F1	ug/Kg	☼	69	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	45.3	32.7	F1	ug/Kg	☼	72	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.3	30.6		ug/Kg	☼	68	60 - 140
1,1,2-Trichloroethane	ND		45.3	36.2		ug/Kg	☼	80	78 - 122
1,1-Dichloroethane	ND		45.3	37.5		ug/Kg	☼	83	73 - 126
1,1-Dichloroethene	ND		45.3	32.4		ug/Kg	☼	72	59 - 125
1,2,4-Trichlorobenzene	ND		45.3	30.5		ug/Kg	☼	67	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	45.3	22.2	F1	ug/Kg	☼	49	63 - 124
1,2-Dichlorobenzene	ND		45.3	36.1		ug/Kg	☼	80	75 - 120
1,2-Dichloroethane	ND	F1	45.3	32.4	F1	ug/Kg	☼	72	77 - 122
1,2-Dichloropropane	ND		45.3	40.4		ug/Kg	☼	89	75 - 124
1,3-Dichlorobenzene	ND		45.3	36.9		ug/Kg	☼	82	74 - 120
1,4-Dichlorobenzene	ND		45.3	36.1		ug/Kg	☼	80	73 - 120
2-Butanone (MEK)	ND	F1	226	129	F1	ug/Kg	☼	57	70 - 134
2-Hexanone	ND		226	138		ug/Kg	☼	61	59 - 130
4-Methyl-2-pentanone (MIBK)	ND		226	150		ug/Kg	☼	66	65 - 133
Acetone	13	J F1	226	108	F1	ug/Kg	☼	42	61 - 137
Benzene	ND		45.3	38.5		ug/Kg	☼	85	79 - 127
Bromoform	ND		45.3	31.9		ug/Kg	☼	70	68 - 126
Bromomethane	ND		45.3	34.6		ug/Kg	☼	77	37 - 149
Carbon disulfide	ND		45.3	29.5		ug/Kg	☼	65	64 - 131
Carbon tetrachloride	ND	F1	45.3	32.0	F1	ug/Kg	☼	71	75 - 135
Chlorobenzene	ND		45.3	38.3		ug/Kg	☼	85	76 - 124
Dibromochloromethane	ND		45.3	36.5		ug/Kg	☼	81	76 - 125
Chloroethane	ND		45.3	36.5		ug/Kg	☼	81	69 - 135
Chloroform	ND	F1	45.3	35.3	F1	ug/Kg	☼	78	80 - 120
Chloromethane	ND	F1	45.3	28.7		ug/Kg	☼	63	63 - 127
cis-1,2-Dichloroethene	ND		45.3	36.4		ug/Kg	☼	81	80 - 120
Cyclohexane	ND		45.3	34.9		ug/Kg	☼	77	65 - 120
Bromodichloromethane	ND		45.3	36.4		ug/Kg	☼	80	80 - 122
Dichlorodifluoromethane	ND	F1	45.3	24.8	F1	ug/Kg	☼	55	57 - 142

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

Lab Sample ID: 480-139579-8 MS
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		45.3	38.6		ug/Kg	☼	85	80 - 120
1,2-Dibromoethane	ND	F1	45.3	33.4	F1	ug/Kg	☼	74	78 - 120
Isopropylbenzene	ND		45.3	39.3		ug/Kg	☼	87	72 - 120
Methyl acetate	ND		90.5	66.1		ug/Kg	☼	73	55 - 136
Methyl tert-butyl ether	ND		45.3	29.7		ug/Kg	☼	66	63 - 125
Methylcyclohexane	ND		45.3	35.0		ug/Kg	☼	77	60 - 140
Methylene Chloride	ND		45.3	33.1		ug/Kg	☼	73	61 - 127
Tetrachloroethene	ND		45.3	36.6		ug/Kg	☼	81	74 - 122
Toluene	ND		45.3	38.6		ug/Kg	☼	85	74 - 128
trans-1,2-Dichloroethene	ND		45.3	35.5		ug/Kg	☼	79	78 - 126
trans-1,3-Dichloropropene	ND		45.3	35.1		ug/Kg	☼	78	73 - 123
Trichloroethene	2.5	J	45.3	38.7		ug/Kg	☼	80	77 - 129
Trichlorofluoromethane	ND		45.3	33.1		ug/Kg	☼	73	65 - 146
Vinyl chloride	ND		45.3	29.9		ug/Kg	☼	66	61 - 133
cis-1,3-Dichloropropene	ND		45.3	37.0		ug/Kg	☼	82	80 - 120
Styrene	ND		45.3	37.7		ug/Kg	☼	83	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

Lab Sample ID: 480-139579-8 MSD
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	43.9	30.4	F1	ug/Kg	☼	69	77 - 121	3	30
1,1,2,2-Tetrachloroethane	ND	F1	43.9	34.3	F1	ug/Kg	☼	78	80 - 120	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.9	29.1		ug/Kg	☼	66	60 - 140	5	30
1,1,2-Trichloroethane	ND		43.9	36.5		ug/Kg	☼	83	78 - 122	1	30
1,1-Dichloroethane	ND		43.9	36.3		ug/Kg	☼	83	73 - 126	3	30
1,1-Dichloroethene	ND		43.9	31.2		ug/Kg	☼	71	59 - 125	4	30
1,2,4-Trichlorobenzene	ND		43.9	30.1		ug/Kg	☼	68	64 - 120	1	30
1,2-Dibromo-3-Chloropropane	ND	F1	43.9	24.0	F1	ug/Kg	☼	55	63 - 124	8	30
1,2-Dichlorobenzene	ND		43.9	35.0		ug/Kg	☼	80	75 - 120	3	30
1,2-Dichloroethane	ND	F1	43.9	32.3	F1	ug/Kg	☼	73	77 - 122	0	30
1,2-Dichloropropane	ND		43.9	39.3		ug/Kg	☼	89	75 - 124	3	30
1,3-Dichlorobenzene	ND		43.9	36.0		ug/Kg	☼	82	74 - 120	2	30
1,4-Dichlorobenzene	ND		43.9	35.5		ug/Kg	☼	81	73 - 120	2	30
2-Butanone (MEK)	ND	F1	220	140	F1	ug/Kg	☼	64	70 - 134	9	30
2-Hexanone	ND		220	147		ug/Kg	☼	67	59 - 130	6	30
4-Methyl-2-pentanone (MIBK)	ND		220	158		ug/Kg	☼	72	65 - 133	5	30
Acetone	13	J F1	220	109	F1	ug/Kg	☼	44	61 - 137	1	30
Benzene	ND		43.9	37.0		ug/Kg	☼	84	79 - 127	4	30
Bromoform	ND		43.9	33.3		ug/Kg	☼	76	68 - 126	4	30

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

Lab Sample ID: 480-139579-8 MSD
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		43.9	31.9		ug/Kg	☼	73	37 - 149	8	30
Carbon disulfide	ND		43.9	28.5		ug/Kg	☼	65	64 - 131	3	30
Carbon tetrachloride	ND	F1	43.9	31.0	F1	ug/Kg	☼	71	75 - 135	3	30
Chlorobenzene	ND		43.9	36.8		ug/Kg	☼	84	76 - 124	4	30
Dibromochloromethane	ND		43.9	35.9		ug/Kg	☼	82	76 - 125	2	30
Chloroethane	ND		43.9	33.9		ug/Kg	☼	77	69 - 135	7	30
Chloroform	ND	F1	43.9	34.4	F1	ug/Kg	☼	78	80 - 120	3	30
Chloromethane	ND	F1	43.9	26.8	F1	ug/Kg	☼	61	63 - 127	7	30
cis-1,2-Dichloroethene	ND		43.9	35.5		ug/Kg	☼	81	80 - 120	3	30
Cyclohexane	ND		43.9	33.7		ug/Kg	☼	77	65 - 120	4	30
Bromodichloromethane	ND		43.9	36.1		ug/Kg	☼	82	80 - 122	1	30
Dichlorodifluoromethane	ND	F1	43.9	23.3	F1	ug/Kg	☼	53	57 - 142	6	30
Ethylbenzene	ND		43.9	36.8		ug/Kg	☼	84	80 - 120	5	30
1,2-Dibromoethane	ND	F1	43.9	33.8	F1	ug/Kg	☼	77	78 - 120	1	30
Isopropylbenzene	ND		43.9	37.3		ug/Kg	☼	85	72 - 120	5	30
Methyl acetate	ND		87.9	71.2		ug/Kg	☼	81	55 - 136	7	30
Methyl tert-butyl ether	ND		43.9	30.4		ug/Kg	☼	69	63 - 125	2	30
Methylcyclohexane	ND		43.9	33.3		ug/Kg	☼	76	60 - 140	5	30
Methylene Chloride	ND		43.9	33.3		ug/Kg	☼	76	61 - 127	1	30
Tetrachloroethene	ND		43.9	34.9		ug/Kg	☼	79	74 - 122	5	30
Toluene	ND		43.9	37.1		ug/Kg	☼	84	74 - 128	4	30
trans-1,2-Dichloroethene	ND		43.9	34.3		ug/Kg	☼	78	78 - 126	3	30
trans-1,3-Dichloropropene	ND		43.9	35.3		ug/Kg	☼	80	73 - 123	1	30
Trichloroethene	2.5	J	43.9	37.0		ug/Kg	☼	78	77 - 129	5	30
Trichlorofluoromethane	ND		43.9	30.9		ug/Kg	☼	70	65 - 146	7	30
Vinyl chloride	ND		43.9	28.1		ug/Kg	☼	64	61 - 133	6	30
cis-1,3-Dichloropropene	ND		43.9	36.4		ug/Kg	☼	83	80 - 120	2	30
Styrene	ND		43.9	36.3		ug/Kg	☼	83	80 - 120	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*95*		*60 - 140*

Lab Sample ID: MB 460-541118/8
Matrix: Water
Analysis Batch: 541118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/31/18 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/31/18 22:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/31/18 22:40	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/31/18 22:40	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/31/18 22:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/31/18 22:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/31/18 22:40	1

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

Lab Sample ID: MB 460-541118/8
Matrix: Water
Analysis Batch: 541118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/31/18 22:40	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/31/18 22:40	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/31/18 22:40	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/31/18 22:40	1
2-Hexanone	ND		5.0	2.9	ug/L			07/31/18 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/31/18 22:40	1
Acetone	ND		5.0	5.0	ug/L			07/31/18 22:40	1
Benzene	ND		1.0	0.43	ug/L			07/31/18 22:40	1
Bromoform	ND		1.0	0.54	ug/L			07/31/18 22:40	1
Bromomethane	ND		1.0	1.0	ug/L			07/31/18 22:40	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/31/18 22:40	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/31/18 22:40	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/31/18 22:40	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/31/18 22:40	1
Chloroethane	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Chloroform	ND		1.0	0.33	ug/L			07/31/18 22:40	1
Chloromethane	ND		1.0	0.14	ug/L			07/31/18 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/31/18 22:40	1
Cyclohexane	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/31/18 22:40	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/31/18 22:40	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/31/18 22:40	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/31/18 22:40	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/31/18 22:40	1
Methyl acetate	ND		5.0	0.31	ug/L			07/31/18 22:40	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/31/18 22:40	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/31/18 22:40	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/31/18 22:40	1
Toluene	ND		1.0	0.38	ug/L			07/31/18 22:40	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/31/18 22:40	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/31/18 22:40	1
Trichloroethene	ND		1.0	0.31	ug/L			07/31/18 22:40	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/31/18 22:40	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/18 22:40	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/31/18 22:40	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/31/18 22:40	1
Styrene	ND		1.0	0.42	ug/L			07/31/18 22:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/31/18 22:40*	*1*
4-Bromofluorobenzene	*93*		*77 - 124*		*07/31/18 22:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/31/18 22:40*	*1*
Dibromofluoromethane (Surr)	*98*		*72 - 131*		*07/31/18 22:40*	*1*

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

Lab Sample ID: LCS 460-541118/4
Matrix: Water
Analysis Batch: 541118

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	59 - 150
1,1,2-Trichloroethane	20.0	21.7		ug/L		109	78 - 120
1,1-Dichloroethane	20.0	23.4		ug/L		117	77 - 123
1,1-Dichloroethene	20.0	20.2		ug/L		101	74 - 123
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120
1,2-Dichloroethane	20.0	22.1		ug/L		111	76 - 121
1,2-Dichloropropane	20.0	22.7		ug/L		113	77 - 123
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	84.4		ug/L		84	64 - 120
2-Hexanone	100	102		ug/L		102	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	105		ug/L		105	39 - 150
Benzene	20.0	22.9		ug/L		114	77 - 121
Bromoform	20.0	17.9		ug/L		90	53 - 120
Bromomethane	20.0	16.9		ug/L		84	10 - 150
Carbon disulfide	20.0	20.5		ug/L		103	69 - 133
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 132
Chlorobenzene	20.0	20.5		ug/L		102	80 - 120
Dibromochloromethane	20.0	19.2		ug/L		96	73 - 120
Chloroethane	20.0	20.8		ug/L		104	52 - 150
Chloroform	20.0	21.5		ug/L		108	80 - 120
Chloromethane	20.0	24.6		ug/L		123	56 - 131
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	80 - 120
Cyclohexane	20.0	20.6		ug/L		103	56 - 150
Bromodichloromethane	20.0	20.2		ug/L		101	76 - 120
Dichlorodifluoromethane	20.0	20.4		ug/L		102	50 - 131
Ethylbenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dibromoethane	20.0	20.6		ug/L		103	80 - 120
Isopropylbenzene	20.0	22.3		ug/L		112	80 - 123
Methyl acetate	40.0	64.1	*	ug/L		160	66 - 144
Methyl tert-butyl ether	20.0	21.2		ug/L		106	79 - 122
Methylcyclohexane	20.0	20.3		ug/L		102	61 - 145
Methylene Chloride	20.0	20.9		ug/L		105	77 - 123
Tetrachloroethene	20.0	20.1		ug/L		100	78 - 122
Toluene	20.0	21.8		ug/L		109	80 - 120
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	79 - 120
trans-1,3-Dichloropropene	20.0	21.3		ug/L		107	76 - 120
Trichloroethene	20.0	19.1		ug/L		95	77 - 120
Trichlorofluoromethane	20.0	19.3		ug/L		97	71 - 143
Vinyl chloride	20.0	21.3		ug/L		107	62 - 138
cis-1,3-Dichloropropene	20.0	22.3		ug/L		111	77 - 120
Styrene	20.0	21.5		ug/L		107	80 - 120

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

Lab Sample ID: LCS 460-541118/4
Matrix: Water
Analysis Batch: 541118

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*95*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*92*		*72 - 131*

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.59	J	20.0	21.1		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	ND		20.0	23.5		ug/L		118	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	23.2		ug/L		116	59 - 150
1,1,2-Trichloroethane	ND	F1	20.0	24.4	F1	ug/L		122	78 - 120
1,1-Dichloroethane	ND		20.0	24.6		ug/L		123	77 - 123
1,1-Dichloroethene	ND		20.0	22.5		ug/L		112	74 - 123
1,2,4-Trichlorobenzene	ND		20.0	21.7		ug/L		108	80 - 124
1,2-Dibromo-3-Chloropropane	ND		20.0	23.7		ug/L		118	55 - 134
1,2-Dichlorobenzene	ND		20.0	21.8		ug/L		109	80 - 120
1,2-Dichloroethane	ND		20.0	23.1		ug/L		115	76 - 121
1,2-Dichloropropane	ND		20.0	23.8		ug/L		119	77 - 123
1,3-Dichlorobenzene	ND		20.0	21.3		ug/L		107	80 - 120
1,4-Dichlorobenzene	ND		20.0	21.1		ug/L		106	80 - 120
2-Butanone (MEK)	ND		100	88.2		ug/L		88	64 - 120
2-Hexanone	ND		100	101		ug/L		101	71 - 125
4-Methyl-2-pentanone (MIBK)	ND		100	113		ug/L		113	78 - 124
Acetone	ND		100	117		ug/L		117	39 - 150
Benzene	ND	F1	20.0	25.3	F1	ug/L		127	77 - 121
Bromoform	ND		20.0	20.0		ug/L		100	53 - 120
Bromomethane	ND		20.0	16.8		ug/L		84	10 - 150
Carbon disulfide	ND		20.0	21.8		ug/L		109	69 - 133
Carbon tetrachloride	ND		20.0	20.5		ug/L		103	70 - 132
Chlorobenzene	ND		20.0	22.2		ug/L		111	80 - 120
Dibromochloromethane	ND		20.0	20.6		ug/L		103	73 - 120
Chloroethane	ND		20.0	20.5		ug/L		102	52 - 150
Chloroform	ND		20.0	22.6		ug/L		113	80 - 120
Chloromethane	ND		20.0	24.7		ug/L		124	56 - 131
cis-1,2-Dichloroethene	2.0		20.0	23.1		ug/L		106	80 - 120
Cyclohexane	ND		20.0	23.0		ug/L		115	56 - 150
Bromodichloromethane	ND		20.0	21.2		ug/L		106	76 - 120
Dichlorodifluoromethane	ND		20.0	22.5		ug/L		113	50 - 131
Ethylbenzene	ND		20.0	22.0		ug/L		110	80 - 120
1,2-Dibromoethane	ND		20.0	21.7		ug/L		109	80 - 120
Isopropylbenzene	ND		20.0	23.5		ug/L		118	80 - 123
Methyl acetate	ND	* F1	40.0	62.6	F1	ug/L		156	66 - 144
Methyl tert-butyl ether	ND		20.0	23.0		ug/L		115	79 - 122
Methylcyclohexane	ND		20.0	22.7		ug/L		114	61 - 145

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

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		20.0	22.6		ug/L		113	77 - 123
Tetrachloroethene	4.0		20.0	24.4		ug/L		102	78 - 122
Toluene	ND		20.0	23.2		ug/L		116	80 - 120
trans-1,2-Dichloroethene	ND		20.0	22.4		ug/L		112	79 - 120
trans-1,3-Dichloropropene	ND		20.0	22.9		ug/L		114	76 - 120
Trichloroethene	54	F1	20.0	66.3	F1	ug/L		60	77 - 120
Trichlorofluoromethane	0.76	J	20.0	21.9		ug/L		105	71 - 143
Vinyl chloride	ND		20.0	21.8		ug/L		109	62 - 138
cis-1,3-Dichloropropene	ND		20.0	23.3		ug/L		116	77 - 120
Styrene	ND		20.0	20.5		ug/L		103	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*72 - 131*

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.59	J	20.0	18.7		ug/L		91	75 - 125	12	30
1,1,2,2-Tetrachloroethane	ND		20.0	22.9		ug/L		114	74 - 120	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.0		ug/L		100	59 - 150	15	30
1,1,2-Trichloroethane	ND	F1	20.0	21.6		ug/L		108	78 - 120	12	30
1,1-Dichloroethane	ND		20.0	22.1		ug/L		110	77 - 123	11	30
1,1-Dichloroethene	ND		20.0	19.6		ug/L		98	74 - 123	14	30
1,2,4-Trichlorobenzene	ND		20.0	21.7		ug/L		109	80 - 124	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	22.4		ug/L		112	55 - 134	5	30
1,2-Dichlorobenzene	ND		20.0	20.9		ug/L		105	80 - 120	4	30
1,2-Dichloroethane	ND		20.0	20.5		ug/L		103	76 - 121	12	30
1,2-Dichloropropane	ND		20.0	21.8		ug/L		109	77 - 123	9	30
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		103	80 - 120	4	30
1,4-Dichlorobenzene	ND		20.0	20.4		ug/L		102	80 - 120	4	30
2-Butanone (MEK)	ND		100	83.3		ug/L		83	64 - 120	6	30
2-Hexanone	ND		100	90.1		ug/L		90	71 - 125	11	30
4-Methyl-2-pentanone (MIBK)	ND		100	103		ug/L		103	78 - 124	9	30
Acetone	ND		100	106		ug/L		106	39 - 150	9	30
Benzene	ND	F1	20.0	22.1		ug/L		111	77 - 121	13	30
Bromoform	ND		20.0	17.6		ug/L		88	53 - 120	13	30
Bromomethane	ND		20.0	16.3		ug/L		81	10 - 150	3	30
Carbon disulfide	ND		20.0	19.5		ug/L		97	69 - 133	11	30
Carbon tetrachloride	ND		20.0	18.6		ug/L		93	70 - 132	10	30
Chlorobenzene	ND		20.0	19.7		ug/L		98	80 - 120	12	30
Dibromochloromethane	ND		20.0	18.3		ug/L		92	73 - 120	12	30
Chloroethane	ND		20.0	20.7		ug/L		104	52 - 150	1	30

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

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		20.0	20.3		ug/L		102	80 - 120	11	30
Chloromethane	ND		20.0	23.8		ug/L		119	56 - 131	4	30
cis-1,2-Dichloroethene	2.0		20.0	20.7		ug/L		94	80 - 120	11	30
Cyclohexane	ND		20.0	20.8		ug/L		104	56 - 150	10	30
Bromodichloromethane	ND		20.0	18.8		ug/L		94	76 - 120	12	30
Dichlorodifluoromethane	ND		20.0	21.8		ug/L		109	50 - 131	3	30
Ethylbenzene	ND		20.0	19.0		ug/L		95	80 - 120	15	30
1,2-Dibromoethane	ND		20.0	19.4		ug/L		97	80 - 120	11	30
Isopropylbenzene	ND		20.0	20.5		ug/L		102	80 - 123	14	30
Methyl acetate	ND	* F1	40.0	56.1		ug/L		140	66 - 144	11	30
Methyl tert-butyl ether	ND		20.0	20.6		ug/L		103	79 - 122	11	30
Methylcyclohexane	ND		20.0	20.4		ug/L		102	61 - 145	11	30
Methylene Chloride	ND		20.0	20.3		ug/L		102	77 - 123	11	30
Tetrachloroethene	4.0		20.0	21.8		ug/L		89	78 - 122	11	30
Toluene	ND		20.0	20.4		ug/L		102	80 - 120	13	30
trans-1,2-Dichloroethene	ND		20.0	20.0		ug/L		100	79 - 120	12	30
trans-1,3-Dichloropropene	ND		20.0	20.4		ug/L		102	76 - 120	11	30
Trichloroethene	54	F1	20.0	62.3	F1	ug/L		40	77 - 120	6	30
Trichlorofluoromethane	0.76	J	20.0	20.8		ug/L		100	71 - 143	5	30
Vinyl chloride	ND		20.0	21.3		ug/L		107	62 - 138	2	30
cis-1,3-Dichloropropene	ND		20.0	20.5		ug/L		102	77 - 120	13	30
Styrene	ND		20.0	18.0		ug/L		90	80 - 120	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*72 - 131*

Lab Sample ID: MB 460-541225/8
Matrix: Water
Analysis Batch: 541225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 08:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 08:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 08:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 08:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 08:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 08:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 08:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 08:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 08:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 08:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 08:53	1

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

Lab Sample ID: MB 460-541225/8
Matrix: Water
Analysis Batch: 541225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 08:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 08:53	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 08:53	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 08:53	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 08:53	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 08:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 08:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 08:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 08:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 08:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 08:53	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 08:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 08:53	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 08:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 08:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 08:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 08:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 08:53	1
Methyl acetate	ND		5.0	0.31	ug/L			08/01/18 08:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 08:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 08:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 08:53	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 08:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 08:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 08:53	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 08:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 08:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 08:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 08:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 08:53	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*08/01/18 08:53*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*08/01/18 08:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 08:53*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*08/01/18 08:53*	*1*

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.1		ug/L		105	75 - 125
1,1,2,2-Tetrachloroethane	20.0	24.0		ug/L		120	74 - 120

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

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.9		ug/L		119	59 - 150
1,1,2-Trichloroethane	20.0	23.0		ug/L		115	78 - 120
1,1-Dichloroethane	20.0	23.9		ug/L		120	77 - 123
1,1-Dichloroethene	20.0	22.5		ug/L		113	74 - 123
1,2,4-Trichlorobenzene	20.0	23.3		ug/L		116	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	23.3		ug/L		116	55 - 134
1,2-Dichlorobenzene	20.0	22.7		ug/L		113	80 - 120
1,2-Dichloroethane	20.0	22.1		ug/L		111	76 - 121
1,2-Dichloropropane	20.0	23.4		ug/L		117	77 - 123
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2-Butanone (MEK)	100	92.3		ug/L		92	64 - 120
2-Hexanone	100	102		ug/L		102	71 - 125
4-Methyl-2-pentanone (MIBK)	100	114		ug/L		114	78 - 124
Acetone	100	126		ug/L		126	39 - 150
Benzene	20.0	24.1		ug/L		121	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	14.1		ug/L		70	10 - 150
Carbon disulfide	20.0	23.2		ug/L		116	69 - 133
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 132
Chlorobenzene	20.0	21.7		ug/L		108	80 - 120
Dibromochloromethane	20.0	20.0		ug/L		100	73 - 120
Chloroethane	20.0	19.6		ug/L		98	52 - 150
Chloroform	20.0	21.8		ug/L		109	80 - 120
Chloromethane	20.0	23.2		ug/L		116	56 - 131
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	80 - 120
Cyclohexane	20.0	24.1		ug/L		120	56 - 150
Bromodichloromethane	20.0	20.9		ug/L		104	76 - 120
Dichlorodifluoromethane	20.0	21.9		ug/L		109	50 - 131
Ethylbenzene	20.0	20.9		ug/L		105	80 - 120
1,2-Dibromoethane	20.0	21.8		ug/L		109	80 - 120
Isopropylbenzene	20.0	22.7		ug/L		113	80 - 123
Methyl acetate	40.0	65.3	*	ug/L		163	66 - 144
Methyl tert-butyl ether	20.0	22.2		ug/L		111	79 - 122
Methylcyclohexane	20.0	23.8		ug/L		119	61 - 145
Methylene Chloride	20.0	22.0		ug/L		110	77 - 123
Tetrachloroethene	20.0	21.2		ug/L		106	78 - 122
Toluene	20.0	22.2		ug/L		111	80 - 120
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	79 - 120
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	76 - 120
Trichloroethene	20.0	20.8		ug/L		104	77 - 120
Trichlorofluoromethane	20.0	20.6		ug/L		103	71 - 143
Vinyl chloride	20.0	21.2		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	23.2		ug/L		116	77 - 120
Styrene	20.0	21.6		ug/L		108	80 - 120

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

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-540563/1-A
Matrix: Water
Analysis Batch: 540569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/29/18 23:15	1

Lab Sample ID: LCS 460-540563/2-A
Matrix: Water
Analysis Batch: 540569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.248	J	ug/L		31	10 - 137

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 540569

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		0.800	0.519		ug/L		65	10 - 137

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 540569

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		0.800	0.683		ug/L		85	10 - 137	27	30

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

GC/MS VOA

Prep Batch: 427697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	
MB 480-427697/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-427697/23-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	

Analysis Batch: 427705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697
MB 480-427697/2-A	Method Blank	Total/NA	Solid	8260C	427697
LCS 480-427697/23-A	Lab Control Sample	Total/NA	Solid	8260C	427697
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697

Analysis Batch: 427843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	8260C	427697
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	8260C	427697
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	8260C	427697

Analysis Batch: 541118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-2	MW-1161-4-20180724	Total/NA	Water	8260C	
480-139579-3	TB-20180724	Total/NA	Water	8260C	
480-139579-4	FB-20180724	Total/NA	Water	8260C	
480-139579-9	FB-20180725	Total/NA	Water	8260C	
480-139579-10	MW-161-3-20180725	Total/NA	Water	8260C	
480-139579-11	TB-20180725	Total/NA	Water	8260C	
MB 460-541118/8	Method Blank	Total/NA	Water	8260C	
LCS 460-541118/4	Lab Control Sample	Total/NA	Water	8260C	
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	8260C	
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	8260C	

Analysis Batch: 541225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	8260C	
MB 460-541225/8	Method Blank	Total/NA	Water	8260C	
LCS 460-541225/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 540563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	3510C	
480-139579-2	MW-1161-4-20180724	Total/NA	Water	3510C	
480-139579-4	FB-20180724	Total/NA	Water	3510C	
480-139579-10	MW-161-3-20180725	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 540563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-540563/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-540563/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	3510C	
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	3510C	

Analysis Batch: 540569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	8270C	540563
480-139579-2	MW-1161-4-20180724	Total/NA	Water	8270C	540563
480-139579-4	FB-20180724	Total/NA	Water	8270C	540563
480-139579-10	MW-161-3-20180725	Total/NA	Water	8270C	540563
MB 460-540563/1-A	Method Blank	Total/NA	Water	8270C	540563
LCS 460-540563/2-A	Lab Control Sample	Total/NA	Water	8270C	540563
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	8270C	540563
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	8270C	540563

General Chemistry

Analysis Batch: 427505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	

Client Sample ID: MW-161-4-20180724
Lab Sample ID: 480-139579-1
Date Collected: 07/24/18 10:10
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541225	08/01/18 11:59	CJM	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:04	SK	TAL EDI

Client Sample ID: MW-1161-4-20180724
Lab Sample ID: 480-139579-2
Date Collected: 07/24/18 10:15
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:30	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:25	SK	TAL EDI

Client Sample ID: TB-20180724
Lab Sample ID: 480-139579-3
Date Collected: 07/24/18 08:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	07/31/18 23:03	VBP	TAL EDI

Client Sample ID: FB-20180724
Lab Sample ID: 480-139579-4
Date Collected: 07/24/18 11:45
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 00:20	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:47	SK	TAL EDI

Client Sample ID: PD1-23-SO-18-20180725
Lab Sample ID: 480-139579-5
Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PD1-23-SO-18-20180725
Lab Sample ID: 480-139579-5
Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF

Client Sample ID: PD1-23-SO-18-20180725
Lab Sample ID: 480-139579-5
Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	427843	08/03/18 01:39	CDC	TAL BUF

Client Sample ID: PDI-123-SO-18-20180725
Lab Sample ID: 480-139579-6
Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PDI-123-SO-18-20180725
Lab Sample ID: 480-139579-6
Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427843	08/03/18 02:05	CDC	TAL BUF

Client Sample ID: PDI-24-SO-18-20180725
Lab Sample ID: 480-139579-7
Date Collected: 07/25/18 08:50
Matrix: Solid
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PDI-24-SO-18-20180725
Lab Sample ID: 480-139579-7
Date Collected: 07/25/18 08:50
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427843	08/03/18 02:31	CDC	TAL BUF

Client Sample ID: PDI-25-SO-14-20180725
Lab Sample ID: 480-139579-8
Date Collected: 07/25/18 09:30
Matrix: Solid
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PDI-25-SO-14-20180725

Lab Sample ID: 480-139579-8
Date Collected: 07/25/18 09:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427705	08/02/18 19:31	AEM	TAL BUF

Client Sample ID: FB-20180725

Lab Sample ID: 480-139579-9
Date Collected: 07/25/18 09:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 00:44	VBP	TAL EDI

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10
Date Collected: 07/25/18 12:25
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:53	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 00:40	SK	TAL EDI

Client Sample ID: TB-20180725

Lab Sample ID: 480-139579-11
Date Collected: 07/25/18 08:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:07	VBP	TAL EDI

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 480-139579-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PD1-23-SO-18-20180725	480-139579-5	93	101	99	97
PDI-123-SO-18-20180725	480-139579-6	92	100	100	96
PDI-24-SO-18-20180725	480-139579-7	93	103	99	96
PDI-25-SO-14-20180725	480-139579-8	94	101	99	95
	MB 480-427697/2-A	94	98	101	93
	LCS 480-427697/23-A	94	95	102	96
PDI-25-SO-14-20180725 MS	480-139579-8 MS	94	89	101	96
PDI-25-SO-14-20180725 MSD	480-139579-8 MSD	95	90	101	97

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
MW-161-4-20180724	480-139579-1	99	110	98	92
MW-1161-4-20180724	480-139579-2	99	110	101	94
TB-20180724	480-139579-3	100	110	97	89
FB-20180724	480-139579-4	97	108	99	92
FB-20180725	480-139579-9	97	110	98	92
MW-161-3-20180725	480-139579-10	99	112	99	91
TB-20180725	480-139579-11	100	110	97	94
	MB 460-541118/8	98	110	98	93
	MB 460-541225/8	100	112	99	89
	LCS 460-541118/4	92	102	97	95
	LCS 460-541225/4	93	102	97	93
MW-161-3-20180725 MS	480-139579-10 MS	96	102	100	98
MW-161-3-20180725 MSD	480-139579-10 MSD	96	103	97	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4189.D

Lab ID: LCS 480-427697/23-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	47.3	95	77-121	
1,1,2,2-Tetrachloroethane	50.0	57.1	114	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5	97	60-140	
1,1,2-Trichloroethane	50.0	55.7	111	78-122	
1,1-Dichloroethane	50.0	55.2	110	73-126	
1,1-Dichloroethene	50.0	51.8	104	59-125	
1,2,4-Trichlorobenzene	50.0	48.6	97	64-120	
1,2-Dibromo-3-Chloropropane	50.0	45.7	91	63-124	
1,2-Dichlorobenzene	50.0	53.1	106	75-120	
1,2-Dichloroethane	50.0	48.2	96	77-122	
1,2-Dichloropropane	50.0	57.4	115	75-124	
1,3-Dichlorobenzene	50.0	55.3	111	74-120	
1,4-Dichlorobenzene	50.0	54.4	109	73-120	
2-Butanone (MEK)	250	278	111	70-134	
2-Hexanone	250	283	113	59-130	
4-Methyl-2-pentanone (MIBK)	250	282	113	65-133	
Acetone	250	231	92	61-137	
Benzene	50.0	55.6	111	79-127	
Bromoform	50.0	55.8	112	68-126	
Bromomethane	50.0	49.1	98	37-149	
Carbon disulfide	50.0	48.8	98	64-131	
Carbon tetrachloride	50.0	48.8	98	75-135	
Chlorobenzene	50.0	55.5	111	76-124	
Dibromochloromethane	50.0	56.0	112	76-125	
Chloroethane	50.0	51.6	103	69-135	
Chloroform	50.0	51.0	102	80-120	
Chloromethane	50.0	48.1	96	63-127	
cis-1,2-Dichloroethene	50.0	53.1	106	81-120	
Cyclohexane	50.0	54.2	108	65-120	
Bromodichloromethane	50.0	52.8	106	80-122	
Dichlorodifluoromethane	50.0	46.3	93	57-142	
Ethylbenzene	50.0	56.3	113	80-120	
1,2-Dibromoethane	50.0	54.0	108	78-120	
Isopropylbenzene	50.0	56.6	113	72-120	
Methyl acetate	100	125	125	55-136	
Methyl tert-butyl ether	50.0	45.1	90	63-125	
Methylcyclohexane	50.0	52.4	105	60-140	
Methylene Chloride	50.0	49.7	99	61-127	
Tetrachloroethene	50.0	54.7	109	74-122	
Toluene	50.0	56.1	112	74-128	
trans-1,2-Dichloroethene	50.0	53.4	107	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4189.D

Lab ID: LCS 480-427697/23-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	55.1	110	73-123	
Trichloroethene	50.0	53.2	106	77-129	
Trichlorofluoromethane	50.0	49.4	99	65-146	
Vinyl chloride	50.0	51.2	102	61-133	
cis-1,3-Dichloropropene	50.0	54.5	109	80-120	
Styrene	50.0	55.4	111	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4204.D

Lab ID: 480-139579-8 MS Client ID: PDI-25-SO-14-20180725 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	45.3	ND	31.3	69	77-121	F1
1,1,2,2-Tetrachloroethane	45.3	ND	32.7	72	80-120	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	45.3	ND	30.6	68	60-140	
1,1,2-Trichloroethane	45.3	ND	36.2	80	78-122	
1,1-Dichloroethane	45.3	ND	37.5	83	73-126	
1,1-Dichloroethene	45.3	ND	32.4	72	59-125	
1,2,4-Trichlorobenzene	45.3	ND	30.5	67	64-120	
1,2-Dibromo-3-Chloropropane	45.3	ND	22.2	49	63-124	F1
1,2-Dichlorobenzene	45.3	ND	36.1	80	75-120	
1,2-Dichloroethane	45.3	ND	32.4	72	77-122	F1
1,2-Dichloropropane	45.3	ND	40.4	89	75-124	
1,3-Dichlorobenzene	45.3	ND	36.9	82	74-120	
1,4-Dichlorobenzene	45.3	ND	36.1	80	73-120	
2-Butanone (MEK)	226	ND	129	57	70-134	F1
2-Hexanone	226	ND	138	61	59-130	
4-Methyl-2-pentanone (MIBK)	226	ND	150	66	65-133	
Acetone	226	13 J	108	42	61-137	F1
Benzene	45.3	ND	38.5	85	79-127	
Bromoform	45.3	ND	31.9	70	68-126	
Bromomethane	45.3	ND	34.6	77	37-149	
Carbon disulfide	45.3	ND	29.5	65	64-131	
Carbon tetrachloride	45.3	ND	32.0	71	75-135	F1
Chlorobenzene	45.3	ND	38.3	85	76-124	
Dibromochloromethane	45.3	ND	36.5	81	76-125	
Chloroethane	45.3	ND	36.5	81	69-135	
Chloroform	45.3	ND	35.3	78	80-120	F1
Chloromethane	45.3	ND	28.7	63	63-127	
cis-1,2-Dichloroethene	45.3	ND	36.4	81	80-120	
Cyclohexane	45.3	ND	34.9	77	65-120	
Bromodichloromethane	45.3	ND	36.4	80	80-122	
Dichlorodifluoromethane	45.3	ND	24.8	55	57-142	F1
Ethylbenzene	45.3	ND	38.6	85	80-120	
1,2-Dibromoethane	45.3	ND	33.4	74	78-120	F1
Isopropylbenzene	45.3	ND	39.3	87	72-120	
Methyl acetate	90.5	ND	66.1	73	55-136	
Methyl tert-butyl ether	45.3	ND	29.7	66	63-125	
Methylcyclohexane	45.3	ND	35.0	77	60-140	
Methylene Chloride	45.3	ND	33.1	73	61-127	
Tetrachloroethene	45.3	ND	36.6	81	74-122	
Toluene	45.3	ND	38.6	85	74-128	
trans-1,2-Dichloroethene	45.3	ND	35.5	79	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4204.D

Lab ID: 480-139579-8 MS Client ID: PDI-25-SO-14-20180725 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	45.3	ND	35.1	78	73-123	
Trichloroethene	45.3	2.5 J	38.7	80	77-129	
Trichlorofluoromethane	45.3	ND	33.1	73	65-146	
Vinyl chloride	45.3	ND	29.9	66	61-133	
cis-1,3-Dichloropropene	45.3	ND	37.0	82	80-120	
Styrene	45.3	ND	37.7	83	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4205.D

Lab ID: 480-139579-8 MSD Client ID: PDI-25-SO-14-20180725 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	43.9	30.4	69	3	30	77-121	F1
1,1,2,2-Tetrachloroethane	43.9	34.3	78	5	30	80-120	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	43.9	29.1	66	5	30	60-140	
1,1,2-Trichloroethane	43.9	36.5	83	1	30	78-122	
1,1-Dichloroethane	43.9	36.3	83	3	30	73-126	
1,1-Dichloroethene	43.9	31.2	71	4	30	59-125	
1,2,4-Trichlorobenzene	43.9	30.1	68	1	30	64-120	
1,2-Dibromo-3-Chloropropane	43.9	24.0	55	8	30	63-124	F1
1,2-Dichlorobenzene	43.9	35.0	80	3	30	75-120	
1,2-Dichloroethane	43.9	32.3	73	0	30	77-122	F1
1,2-Dichloropropane	43.9	39.3	89	3	30	75-124	
1,3-Dichlorobenzene	43.9	36.0	82	2	30	74-120	
1,4-Dichlorobenzene	43.9	35.5	81	2	30	73-120	
2-Butanone (MEK)	220	140	64	9	30	70-134	F1
2-Hexanone	220	147	67	6	30	59-130	
4-Methyl-2-pentanone (MIBK)	220	158	72	5	30	65-133	
Acetone	220	109	44	1	30	61-137	F1
Benzene	43.9	37.0	84	4	30	79-127	
Bromoform	43.9	33.3	76	4	30	68-126	
Bromomethane	43.9	31.9	73	8	30	37-149	
Carbon disulfide	43.9	28.5	65	3	30	64-131	
Carbon tetrachloride	43.9	31.0	71	3	30	75-135	F1
Chlorobenzene	43.9	36.8	84	4	30	76-124	
Dibromochloromethane	43.9	35.9	82	2	30	76-125	
Chloroethane	43.9	33.9	77	7	30	69-135	
Chloroform	43.9	34.4	78	3	30	80-120	F1
Chloromethane	43.9	26.8	61	7	30	63-127	F1
cis-1,2-Dichloroethene	43.9	35.5	81	3	30	80-120	
Cyclohexane	43.9	33.7	77	4	30	65-120	
Bromodichloromethane	43.9	36.1	82	1	30	80-122	
Dichlorodifluoromethane	43.9	23.3	53	6	30	57-142	F1
Ethylbenzene	43.9	36.8	84	5	30	80-120	
1,2-Dibromoethane	43.9	33.8	77	1	30	78-120	F1
Isopropylbenzene	43.9	37.3	85	5	30	72-120	
Methyl acetate	87.9	71.2	81	7	30	55-136	
Methyl tert-butyl ether	43.9	30.4	69	2	30	63-125	
Methylcyclohexane	43.9	33.3	76	5	30	60-140	
Methylene Chloride	43.9	33.3	76	1	30	61-127	
Tetrachloroethene	43.9	34.9	79	5	30	74-122	
Toluene	43.9	37.1	84	4	30	74-128	
trans-1,2-Dichloroethene	43.9	34.3	78	3	30	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F4205.D

Lab ID: 480-139579-8 MSD Client ID: PDI-25-SO-14-20180725 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	43.9	35.3	80	1	30	73-123	
Trichloroethene	43.9	37.0	78	5	30	77-129	
Trichlorofluoromethane	43.9	30.9	70	7	30	65-146	
Vinyl chloride	43.9	28.1	64	6	30	61-133	
cis-1,3-Dichloropropene	43.9	36.4	83	2	30	80-120	
Styrene	43.9	36.3	83	4	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68504.D

Lab ID: LCS 460-541118/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.5	98	75-125	
1,1,2,2-Tetrachloroethane	20.0	21.8	109	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4	97	59-150	
1,1,2-Trichloroethane	20.0	21.7	109	78-120	
1,1-Dichloroethane	20.0	23.4	117	77-123	
1,1-Dichloroethene	20.0	20.2	101	74-123	
1,2,4-Trichlorobenzene	20.0	22.2	111	80-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	55-134	
1,2-Dichlorobenzene	20.0	21.3	106	80-120	
1,2-Dichloroethane	20.0	22.1	111	76-121	
1,2-Dichloropropane	20.0	22.7	113	77-123	
1,3-Dichlorobenzene	20.0	21.5	107	80-120	
1,4-Dichlorobenzene	20.0	21.2	106	80-120	
2-Butanone (MEK)	100	84.4	84	64-120	
2-Hexanone	100	102	102	71-125	
4-Methyl-2-pentanone (MIBK)	100	109	109	78-124	
Acetone	100	105	105	39-150	
Benzene	20.0	22.9	114	77-121	
Bromoform	20.0	17.9	90	53-120	
Bromomethane	20.0	16.9	84	10-150	
Carbon disulfide	20.0	20.5	103	69-133	
Carbon tetrachloride	20.0	19.8	99	70-132	
Chlorobenzene	20.0	20.5	102	80-120	
Dibromochloromethane	20.0	19.2	96	73-120	
Chloroethane	20.0	20.8	104	52-150	
Chloroform	20.0	21.5	108	80-120	
Chloromethane	20.0	24.6	123	56-131	
cis-1,2-Dichloroethene	20.0	20.9	105	80-120	
Cyclohexane	20.0	20.6	103	56-150	
Bromodichloromethane	20.0	20.2	101	76-120	
Dichlorodifluoromethane	20.0	20.4	102	50-131	
Ethylbenzene	20.0	20.6	103	80-120	
1,2-Dibromoethane	20.0	20.6	103	80-120	
Isopropylbenzene	20.0	22.3	112	80-123	
Methyl acetate	40.0	64.1	160	66-144	*
Methyl tert-butyl ether	20.0	21.2	106	79-122	
Methylcyclohexane	20.0	20.3	102	61-145	
Methylene Chloride	20.0	20.9	105	77-123	
Tetrachloroethene	20.0	20.1	100	78-122	
Toluene	20.0	21.8	109	80-120	
trans-1,2-Dichloroethene	20.0	20.5	103	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68504.D

Lab ID: LCS 460-541118/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	21.3	107	76-120	
Trichloroethene	20.0	19.1	95	77-120	
Trichlorofluoromethane	20.0	19.3	97	71-143	
Vinyl chloride	20.0	21.3	107	62-138	
cis-1,3-Dichloropropene	20.0	22.3	111	77-120	
Styrene	20.0	21.5	107	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68528.D

Lab ID: LCS 460-541225/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.1	105	75-125	
1,1,2,2-Tetrachloroethane	20.0	24.0	120	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.9	119	59-150	
1,1,2-Trichloroethane	20.0	23.0	115	78-120	
1,1-Dichloroethane	20.0	23.9	120	77-123	
1,1-Dichloroethene	20.0	22.5	113	74-123	
1,2,4-Trichlorobenzene	20.0	23.3	116	80-124	
1,2-Dibromo-3-Chloropropane	20.0	23.3	116	55-134	
1,2-Dichlorobenzene	20.0	22.7	113	80-120	
1,2-Dichloroethane	20.0	22.1	111	76-121	
1,2-Dichloropropane	20.0	23.4	117	77-123	
1,3-Dichlorobenzene	20.0	21.8	109	80-120	
1,4-Dichlorobenzene	20.0	21.7	109	80-120	
2-Butanone (MEK)	100	92.3	92	64-120	
2-Hexanone	100	102	102	71-125	
4-Methyl-2-pentanone (MIBK)	100	114	114	78-124	
Acetone	100	126	126	39-150	
Benzene	20.0	24.1	121	77-121	
Bromoform	20.0	20.0	100	53-120	
Bromomethane	20.0	14.1	70	10-150	
Carbon disulfide	20.0	23.2	116	69-133	
Carbon tetrachloride	20.0	21.6	108	70-132	
Chlorobenzene	20.0	21.7	108	80-120	
Dibromochloromethane	20.0	20.0	100	73-120	
Chloroethane	20.0	19.6	98	52-150	
Chloroform	20.0	21.8	109	80-120	
Chloromethane	20.0	23.2	116	56-131	
cis-1,2-Dichloroethene	20.0	21.4	107	80-120	
Cyclohexane	20.0	24.1	120	56-150	
Bromodichloromethane	20.0	20.9	104	76-120	
Dichlorodifluoromethane	20.0	21.9	109	50-131	
Ethylbenzene	20.0	20.9	105	80-120	
1,2-Dibromoethane	20.0	21.8	109	80-120	
Isopropylbenzene	20.0	22.7	113	80-123	
Methyl acetate	40.0	65.3	163	66-144	*
Methyl tert-butyl ether	20.0	22.2	111	79-122	
Methylcyclohexane	20.0	23.8	119	61-145	
Methylene Chloride	20.0	22.0	110	77-123	
Tetrachloroethene	20.0	21.2	106	78-122	
Toluene	20.0	22.2	111	80-120	
trans-1,2-Dichloroethene	20.0	21.4	107	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68528.D

Lab ID: LCS 460-541225/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	22.2	111	76-120	
Trichloroethene	20.0	20.8	104	77-120	
Trichlorofluoromethane	20.0	20.6	103	71-143	
Vinyl chloride	20.0	21.2	106	62-138	
cis-1,3-Dichloropropene	20.0	23.2	116	77-120	
Styrene	20.0	21.6	108	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68516.D

Lab ID: 480-139579-10 MS Client ID: MW-161-3-20180725 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	0.59 J	21.1	103	75-125	
1,1,2,2-Tetrachloroethane	20.0	ND	23.5	118	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	ND	23.2	116	59-150	
1,1,2-Trichloroethane	20.0	ND	24.4	122	78-120	F1
1,1-Dichloroethane	20.0	ND	24.6	123	77-123	
1,1-Dichloroethene	20.0	ND	22.5	112	74-123	
1,2,4-Trichlorobenzene	20.0	ND	21.7	108	80-124	
1,2-Dibromo-3-Chloropropane	20.0	ND	23.7	118	55-134	
1,2-Dichlorobenzene	20.0	ND	21.8	109	80-120	
1,2-Dichloroethane	20.0	ND	23.1	115	76-121	
1,2-Dichloropropane	20.0	ND	23.8	119	77-123	
1,3-Dichlorobenzene	20.0	ND	21.3	107	80-120	
1,4-Dichlorobenzene	20.0	ND	21.1	106	80-120	
2-Butanone (MEK)	100	ND	88.2	88	64-120	
2-Hexanone	100	ND	101	101	71-125	
4-Methyl-2-pentanone (MIBK)	100	ND	113	113	78-124	
Acetone	100	ND	117	117	39-150	
Benzene	20.0	ND	25.3	127	77-121	F1
Bromoform	20.0	ND	20.0	100	53-120	
Bromomethane	20.0	ND	16.8	84	10-150	
Carbon disulfide	20.0	ND	21.8	109	69-133	
Carbon tetrachloride	20.0	ND	20.5	103	70-132	
Chlorobenzene	20.0	ND	22.2	111	80-120	
Dibromochloromethane	20.0	ND	20.6	103	73-120	
Chloroethane	20.0	ND	20.5	102	52-150	
Chloroform	20.0	ND	22.6	113	80-120	
Chloromethane	20.0	ND	24.7	124	56-131	
cis-1,2-Dichloroethene	20.0	2.0	23.1	106	80-120	
Cyclohexane	20.0	ND	23.0	115	56-150	
Bromodichloromethane	20.0	ND	21.2	106	76-120	
Dichlorodifluoromethane	20.0	ND	22.5	113	50-131	
Ethylbenzene	20.0	ND	22.0	110	80-120	
1,2-Dibromoethane	20.0	ND	21.7	109	80-120	
Isopropylbenzene	20.0	ND	23.5	118	80-123	
Methyl acetate	40.0	ND	62.6	156	66-144	F1
Methyl tert-butyl ether	20.0	ND	23.0	115	79-122	
Methylcyclohexane	20.0	ND	22.7	114	61-145	
Methylene Chloride	20.0	ND	22.6	113	77-123	
Tetrachloroethene	20.0	4.0	24.4	102	78-122	
Toluene	20.0	ND	23.2	116	80-120	
trans-1,2-Dichloroethene	20.0	ND	22.4	112	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68516.D

Lab ID: 480-139579-10 MS Client ID: MW-161-3-20180725 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	ND	22.9	114	76-120	
Trichloroethene	20.0	54	66.3	60	77-120	F1
Trichlorofluoromethane	20.0	0.76 J	21.9	105	71-143	
Vinyl chloride	20.0	ND	21.8	109	62-138	
cis-1,3-Dichloropropene	20.0	ND	23.3	116	77-120	
Styrene	20.0	ND	20.5	103	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68517.D

Lab ID: 480-139579-10 MSD Client ID: MW-161-3-20180725 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.7	91	12	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	22.9	114	3	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0	100	15	30	59-150	
1,1,2-Trichloroethane	20.0	21.6	108	12	30	78-120	
1,1-Dichloroethane	20.0	22.1	110	11	30	77-123	
1,1-Dichloroethene	20.0	19.6	98	14	30	74-123	
1,2,4-Trichlorobenzene	20.0	21.7	109	0	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	22.4	112	5	30	55-134	
1,2-Dichlorobenzene	20.0	20.9	105	4	30	80-120	
1,2-Dichloroethane	20.0	20.5	103	12	30	76-121	
1,2-Dichloropropane	20.0	21.8	109	9	30	77-123	
1,3-Dichlorobenzene	20.0	20.5	103	4	30	80-120	
1,4-Dichlorobenzene	20.0	20.4	102	4	30	80-120	
2-Butanone (MEK)	100	83.3	83	6	30	64-120	
2-Hexanone	100	90.1	90	11	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	103	103	9	30	78-124	
Acetone	100	106	106	9	30	39-150	
Benzene	20.0	22.1	111	13	30	77-121	
Bromoform	20.0	17.6	88	13	30	53-120	
Bromomethane	20.0	16.3	81	3	30	10-150	
Carbon disulfide	20.0	19.5	97	11	30	69-133	
Carbon tetrachloride	20.0	18.6	93	10	30	70-132	
Chlorobenzene	20.0	19.7	98	12	30	80-120	
Dibromochloromethane	20.0	18.3	92	12	30	73-120	
Chloroethane	20.0	20.7	104	1	30	52-150	
Chloroform	20.0	20.3	102	11	30	80-120	
Chloromethane	20.0	23.8	119	4	30	56-131	
cis-1,2-Dichloroethene	20.0	20.7	94	11	30	80-120	
Cyclohexane	20.0	20.8	104	10	30	56-150	
Bromodichloromethane	20.0	18.8	94	12	30	76-120	
Dichlorodifluoromethane	20.0	21.8	109	3	30	50-131	
Ethylbenzene	20.0	19.0	95	15	30	80-120	
1,2-Dibromoethane	20.0	19.4	97	11	30	80-120	
Isopropylbenzene	20.0	20.5	102	14	30	80-123	
Methyl acetate	40.0	56.1	140	11	30	66-144	
Methyl tert-butyl ether	20.0	20.6	103	11	30	79-122	
Methylcyclohexane	20.0	20.4	102	11	30	61-145	
Methylene Chloride	20.0	20.3	102	11	30	77-123	
Tetrachloroethene	20.0	21.8	89	11	30	78-122	
Toluene	20.0	20.4	102	13	30	80-120	
trans-1,2-Dichloroethene	20.0	20.0	100	12	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F68517.D

Lab ID: 480-139579-10 MSD Client ID: MW-161-3-20180725 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.4	102	11	30	76-120	
Trichloroethene	20.0	62.3	40	6	30	77-120	F1
Trichlorofluoromethane	20.0	20.8	100	5	30	71-143	
Vinyl chloride	20.0	21.3	107	2	30	62-138	
cis-1,3-Dichloropropene	20.0	20.5	102	13	30	77-120	
Styrene	20.0	18.0	90	13	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab File ID: F4188.D Lab Sample ID: MB 480-427697/2-A

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

Instrument ID: HP5973F Date Analyzed: 08/02/2018 12:59

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-427697/23-A	F4189.D	08/02/2018 13:30
PDI-25-SO-14-20180725	480-139579-8	F4203.D	08/02/2018 19:31
PDI-25-SO-14-20180725 MS	480-139579-8 MS	F4204.D	08/02/2018 19:57
PDI-25-SO-14-20180725 MSD	480-139579-8 MSD	F4205.D	08/02/2018 20:22
PD1-23-SO-18-20180725	480-139579-5	F4216.D	08/03/2018 01:39
PDI-123-SO-18-20180725	480-139579-6	F4217.D	08/03/2018 02:05
PDI-24-SO-18-20180725	480-139579-7	F4218.D	08/03/2018 02:31

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: F68508.D Lab Sample ID: MB 460-541118/8

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

Instrument ID: CVOAMS6 Date Analyzed: 07/31/2018 22:40

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-541118/4	F68504.D	07/31/2018 19:43
TB-20180724	480-139579-3	F68509.D	07/31/2018 23:03
FB-20180724	480-139579-4	F68510.D	08/01/2018 00:20
FB-20180725	480-139579-9	F68511.D	08/01/2018 00:44
TB-20180725	480-139579-11	F68512.D	08/01/2018 01:07
MW-1161-4-20180724	480-139579-2	F68513.D	08/01/2018 01:30
MW-161-3-20180725	480-139579-10	F68514.D	08/01/2018 01:53
MW-161-3-20180725 MS	480-139579-10 MS	F68516.D	08/01/2018 02:40
MW-161-3-20180725 MSD	480-139579-10 MSD	F68517.D	08/01/2018 03:03

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: F68532.D Lab Sample ID: MB 460-541225/8

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

Instrument ID: CVOAMS6 Date Analyzed: 08/01/2018 08:53

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-541225/4	F68528.D	08/01/2018 07:19
MW-161-4-20180724	480-139579-1	F68540.D	08/01/2018 11:59

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab File ID: F2156.D BFB Injection Date: 05/08/2018

Instrument ID: HP5973F BFB Injection Time: 12:17

Analysis Batch No.: 413081

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.3	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	84.5	
175	5.0 - 9.0 % of mass 174	6.2	(7.4) 1
176	95.0 - 101.0 % of mass 174	83.1	(98.4) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-413081/6	F2158.D	05/08/2018	13:08
	IC 480-413081/7	F2159.D	05/08/2018	13:33
	IC 480-413081/8	F2160.D	05/08/2018	13:59
	IC 480-413081/9	F2161.D	05/08/2018	14:25
	ICIS 480-413081/10	F2162.D	05/08/2018	14:50
	IC 480-413081/11	F2163.D	05/08/2018	15:15
	IC 480-413081/12	F2164.D	05/08/2018	15:41

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab File ID: F4180.D BFB Injection Date: 08/02/2018

Instrument ID: HP5973F BFB Injection Time: 09:18

Analysis Batch No.: 427705

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.3	
75	30.0 - 60.0 % of mass 95	48.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	84.2	
175	5.0 - 9.0 % of mass 174	6.4	(7.6) 1
176	95.0 - 101.0 % of mass 174	81.8	(97.2) 1
177	5.0 - 9.0 % of mass 176	5.8	(7.1) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-427705/3	F4181.D	08/02/2018	09:46
	MB 480-427697/2-A	F4188.D	08/02/2018	12:59
	LCS 480-427697/23-A	F4189.D	08/02/2018	13:30
PDI-25-SO-14-20180725	480-139579-8	F4203.D	08/02/2018	19:31
PDI-25-SO-14-20180725 MS	480-139579-8 MS	F4204.D	08/02/2018	19:57
PDI-25-SO-14-20180725 MSD	480-139579-8 MSD	F4205.D	08/02/2018	20:22

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab File ID: F4207.D BFB Injection Date: 08/02/2018

Instrument ID: HP5973F BFB Injection Time: 21:30

Analysis Batch No.: 427843

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.1	
75	30.0 - 60.0 % of mass 95	47.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.2	(0.2) 1
174	50.0 - 120.00 % of mass 95	83.5	
175	5.0 - 9.0 % of mass 174	5.7	(6.9) 1
176	95.0 - 101.0 % of mass 174	80.3	(96.2) 1
177	5.0 - 9.0 % of mass 176	5.0	(6.2) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-427843/3	F4208.D	08/02/2018	22:00
PD1-23-SO-18-20180725	480-139579-5	F4216.D	08/03/2018	01:39
PDI-123-SO-18-20180725	480-139579-6	F4217.D	08/03/2018	02:05
PDI-24-SO-18-20180725	480-139579-7	F4218.D	08/03/2018	02:31

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: F67406.D BFB Injection Date: 07/08/2018

Instrument ID: CVOAMS6 BFB Injection Time: 07:26

Analysis Batch No.: 534406

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	84.2	
175	5.0 - 9.0 % of mass 174	7.0	(8.4) 1
176	95.0 - 101.0 % of mass 174	82.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	4.8	(5.8) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-534406/3	F67408.D	07/08/2018	08:14
	STD1 460-534406/4	F67409.D	07/08/2018	08:37
	STD5 460-534406/5	F67410.D	07/08/2018	09:01
	STD20 460-534406/6	F67411.D	07/08/2018	09:24
	STD50 460-534406/7	F67412.D	07/08/2018	09:47
	STD200 460-534406/8	F67413.D	07/08/2018	10:11
	STD500 460-534406/9	F67414.D	07/08/2018	10:34

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: F68501.D BFB Injection Date: 07/31/2018

Instrument ID: CVOAMS6 BFB Injection Time: 18:35

Analysis Batch No.: 541118

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	23.3	
75	30.0 - 60.0 % of mass 95	51.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	73.7	
175	5.0 - 9.0 % of mass 174	5.0	(6.8) 1
176	95.0 - 101.0 % of mass 174	72.9	(98.8) 1
177	5.0 - 9.0 % of mass 176	4.8	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-541118/3	F68503.D	07/31/2018	19:21
	LCS 460-541118/4	F68504.D	07/31/2018	19:43
	MB 460-541118/8	F68508.D	07/31/2018	22:40
TB-20180724	480-139579-3	F68509.D	07/31/2018	23:03
FB-20180724	480-139579-4	F68510.D	08/01/2018	00:20
FB-20180725	480-139579-9	F68511.D	08/01/2018	00:44
TB-20180725	480-139579-11	F68512.D	08/01/2018	01:07
MW-1161-4-20180724	480-139579-2	F68513.D	08/01/2018	01:30
MW-161-3-20180725	480-139579-10	F68514.D	08/01/2018	01:53
MW-161-3-20180725 MS	480-139579-10 MS	F68516.D	08/01/2018	02:40
MW-161-3-20180725 MSD	480-139579-10 MSD	F68517.D	08/01/2018	03:03

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: F68525.D BFB Injection Date: 08/01/2018

Instrument ID: CVOAMS6 BFB Injection Time: 06:08

Analysis Batch No.: 541225

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.1	
75	30.0 - 60.0 % of mass 95	52.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.1	(0.1) 1
174	50.0 - 120.00 % of mass 95	72.3	
175	5.0 - 9.0 % of mass 174	6.2	(8.5) 1
176	95.0 - 101.0 % of mass 174	71.4	(98.8) 1
177	5.0 - 9.0 % of mass 176	4.6	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-541225/3	F68527.D	08/01/2018	06:54
	LCS 460-541225/4	F68528.D	08/01/2018	07:19
	MB 460-541225/8	F68532.D	08/01/2018	08:53
MW-161-4-20180724	480-139579-1	F68540.D	08/01/2018	11:59

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Sample No.: ICIS 480-413081/10 Date Analyzed: 05/08/2018 14:50

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F2162.D Heated Purge: (Y/N) Y

Calibration ID: 33794

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		317300	5.19	641190	7.99	635410	10.36
UPPER LIMIT		634600	5.69	1282380	8.49	1270820	10.86
LOWER LIMIT		158650	4.69	320595	7.49	317705	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-427705/3		294045	5.20	594649	7.99	555960	10.36
CCVIS 480-427843/3		302254	5.20	609012	7.99	568739	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 480-427705/3 Date Analyzed: 08/02/2018 09:46

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F4181.D Heated Purge: (Y/N) Y

Calibration ID: 33797

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		294045	5.20	594649	7.99	555960	10.36
UPPER LIMIT		588090	5.70	1189298	8.49	1111920	10.86
LOWER LIMIT		147023	4.70	297325	7.49	277980	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-427697/2-A		292062	5.20	591604	7.99	521353	10.36
LCS 480-427697/23-A		312586	5.20	629738	7.99	592051	10.36
480-139579-8	PDI-25-SO-14-20180725	298413	5.20	607541	7.99	542419	10.36
480-139579-8 MS	PDI-25-SO-14-20180725 MS	318428	5.20	647006	7.99	599585	10.36
480-139579-8 MSD	PDI-25-SO-14-20180725 MSD	321726	5.20	661778	7.99	616802	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 480-427843/3 Date Analyzed: 08/02/2018 22:00

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F4208.D Heated Purge: (Y/N) Y

Calibration ID: 33797

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		302254	5.20	609012	7.99	568739	10.36
UPPER LIMIT		604508	5.70	1218024	8.49	1137478	10.86
LOWER LIMIT		151127	4.70	304506	7.49	284370	9.86
LAB SAMPLE ID	CLIENT SAMPLE ID						
480-139579-5	PD1-23-SO-18-20180725	292503	5.20	603479	7.99	549390	10.36
480-139579-6	PDI-123-SO-18-20180725	298409	5.20	614868	7.99	556625	10.36
480-139579-7	PDI-24-SO-18-20180725	273062	5.20	564288	7.99	510252	10.36

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 460-541118/3 Date Analyzed: 07/31/2018 19:21

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F68503.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		107823	3.19	149574	4.24	273967	5.31
UPPER LIMIT		215646	3.69	299148	4.74	547934	5.81
LOWER LIMIT		53912	2.69	74787	3.74	136984	4.81
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-541118/4		105393	3.19	146783	4.24	279528	5.31
MB 460-541118/8		99365	3.19	138030	4.24	259278	5.32
480-139579-3	TB-20180724	97072	3.19	131895	4.24	256884	5.32
480-139579-4	FB-20180724	109698	3.19	170808	4.24	333328	5.32
480-139579-9	FB-20180725	119170	3.20	126432	4.24	255794	5.31
480-139579-11	TB-20180725	117452	3.20	135805	4.24	263005	5.32
480-139579-2	MW-1161-4-20180724	109988	3.19	128216	4.24	249419	5.31
480-139579-10	MW-161-3-20180725	107974	3.19	129996	4.24	251218	5.32
480-139579-10 MS	MW-161-3-20180725 MS	104911	3.19	144034	4.24	269401	5.32
480-139579-10 MSD	MW-161-3-20180725 MSD	108085	3.19	141254	4.24	263757	5.31

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 460-541118/3 Date Analyzed: 07/31/2018 19:21

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F68503.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8860	6.02	184596	8.76	100733	10.90
UPPER LIMIT		17720	6.52	369192	9.26	201466	11.40
LOWER LIMIT		4430	5.52	92298	8.26	50367	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-541118/4		8525	6.02	188169	8.76	101461	10.90
MB 460-541118/8		6875	6.02	165040	8.76	89611	10.91
480-139579-3	TB-20180724	7076	6.04	166106	8.76	89254	10.91
480-139579-4	FB-20180724	6812	6.04	210039	8.76	103541	10.91
480-139579-9	FB-20180725	9486	6.04	160187	8.76	90199	10.91
480-139579-11	TB-20180725	8497	6.05	169731	8.76	94282	10.91
480-139579-2	MW-1161-4-20180724	7416	6.04	156639	8.76	85548	10.91
480-139579-10	MW-161-3-20180725	7794	6.04	158021	8.76	83401	10.91
480-139579-10 MS	MW-161-3-20180725 MS	8307	6.02	175710	8.76	98828	10.90
480-139579-10 MSD	MW-161-3-20180725 MSD	7646	6.03	176154	8.76	93309	10.90

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 460-541225/3 Date Analyzed: 08/01/2018 06:54

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F68527.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		104716	3.21	147248	4.24	281501	5.32
UPPER LIMIT		209432	3.71	294496	4.74	563002	5.82
LOWER LIMIT		52358	2.71	73624	3.74	140751	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-541225/4		119838	3.21	149616	4.24	279685	5.32
MB 460-541225/8		107474	3.22	149154	4.25	272134	5.32
480-139579-1	MW-161-4-20180724	93157	3.19	135598	4.25	263078	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 460-541225/3 Date Analyzed: 08/01/2018 06:54

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F68527.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8452	6.02	184331	8.76	100920	10.90
UPPER LIMIT		16904	6.52	368662	9.26	201840	11.40
LOWER LIMIT		4226	5.52	92166	8.26	50460	10.40
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-541225/4		10039	6.02	187339	8.76	101192	10.91
MB 460-541225/8		6101	6.04	170782	8.76	86651	10.91
480-139579-1	MW-161-4-20180724	6519	6.04	167466	8.76	86521	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PD1-23-SO-18-20180725 | Lab Sample ID: 480-139579-5

Matrix: Solid | Lab File ID: F4216.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:30

Sample wt/vol: 7.274(g) | Date Analyzed: 08/03/2018 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.8 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.5	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.5	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.5	0.59
75-34-3	1,1-Dichloroethane	ND		4.5	0.55
75-35-4	1,1-Dichloroethene	ND		4.5	0.55
120-82-1	1,2,4-Trichlorobenzene	ND		4.5	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.5	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.5	0.35
107-06-2	1,2-Dichloroethane	ND		4.5	0.23
78-87-5	1,2-Dichloropropane	ND		4.5	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.5	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.5	0.63
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	18	J	23	3.8
71-43-2	Benzene	ND		4.5	0.22
75-25-2	Bromoform	ND		4.5	2.3
74-83-9	Bromomethane	ND		4.5	0.41
75-15-0	Carbon disulfide	ND		4.5	2.3
56-23-5	Carbon tetrachloride	ND		4.5	0.44
108-90-7	Chlorobenzene	ND		4.5	0.60
124-48-1	Dibromochloromethane	ND		4.5	0.58
75-00-3	Chloroethane	ND		4.5	1.0
67-66-3	Chloroform	ND		4.5	0.28
74-87-3	Chloromethane	ND		4.5	0.27
156-59-2	cis-1,2-Dichloroethene	ND		4.5	0.58
110-82-7	Cyclohexane	ND		4.5	0.63
75-27-4	Bromodichloromethane	ND		4.5	0.60
75-71-8	Dichlorodifluoromethane	ND		4.5	0.37
100-41-4	Ethylbenzene	ND		4.5	0.31
106-93-4	1,2-Dibromoethane	ND		4.5	0.58
98-82-8	Isopropylbenzene	ND		4.5	0.68
79-20-9	Methyl acetate	ND		23	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PD1-23-SO-18-20180725 | Lab Sample ID: 480-139579-5

Matrix: Solid | Lab File ID: F4216.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:30

Sample wt/vol: 7.274(g) | Date Analyzed: 08/03/2018 01:39

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.8 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.5	0.44
108-87-2	Methylcyclohexane	ND		4.5	0.69
75-09-2	Methylene Chloride	ND		4.5	2.1
127-18-4	Tetrachloroethene	ND		4.5	0.61
108-88-3	Toluene	ND		4.5	0.34
156-60-5	trans-1,2-Dichloroethene	ND		4.5	0.47
10061-02-6	trans-1,3-Dichloropropene	ND		4.5	2.0
79-01-6	Trichloroethene	3.2	J	4.5	0.99
75-69-4	Trichlorofluoromethane	ND		4.5	0.43
75-01-4	Vinyl chloride	ND		4.5	0.55
1330-20-7	Xylenes, Total	ND		9.0	0.76
10061-01-5	cis-1,3-Dichloropropene	ND		4.5	0.65
100-42-5	Styrene	ND		4.5	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4216.D
Lims ID: 480-139579-C-5-A
Client ID: PD1-23-SO-18-20180725
Sample Type: Client
Inject. Date: 03-Aug-2018 01:39:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-5-A
Misc. Info.: 480-0073626-012
Operator ID: AEM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Aug-2018 06:29:34 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0314

First Level Reviewer: cwiklinc Date: 03-Aug-2018 06:30:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	292503	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	603479	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	549390	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.668	0.006	94	333832	46.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.959	0.001	97	234838	50.6	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.001	93	1381899	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	456149	48.5	
10 Dichlorodifluoromethane	85		1.808				ND	
12 Chloromethane	50		1.997				ND	
13 Vinyl chloride	62		2.076				ND	
14 Bromomethane	94		2.368				ND	
15 Chloroethane	64		2.429				ND	
17 Trichlorofluoromethane	101		2.612				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.983				ND	
23 Acetone	43	3.043	3.037	0.006	100	60351	19.7	
26 Carbon disulfide	76		3.189				ND	
27 Methyl acetate	43		3.250				ND	
30 Methylene Chloride	84		3.360				ND	
32 Methyl tert-butyl ether	73		3.512				ND	
34 trans-1,2-Dichloroethene	96		3.542				ND	
39 1,1-Dichloroethane	63		3.865				ND	
43 2-Butanone (MEK)	43		4.297				ND	
45 cis-1,2-Dichloroethene	96		4.309				ND	
50 Chloroform	83		4.546				ND	
51 1,1,1-Trichloroethane	97		4.686				ND	
52 Cyclohexane	56		4.716				ND	
55 Carbon tetrachloride	117		4.814				ND	
57 Benzene	78		4.984				ND	
58 1,2-Dichloroethane	62		5.021				ND	
62 Trichloroethene	95	5.501	5.501	0.000	98	31441	3.50	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.635				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.957				ND	
72 cis-1,3-Dichloropropene	75		6.335				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.432				ND	
74 Toluene	92	6.626	6.627	-0.001	99	6602	0.3054	
77 trans-1,3-Dichloropropene	75		6.846				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.144	7.138	0.006	93	3696	0.3801	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.570				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.634				ND	
92 Styrene	104		8.653				ND	
95 Bromoform	173		8.926				ND	
94 Isopropylbenzene	105		9.005				ND	
97 1,1,2,2-Tetrachloroethane	83		9.389				ND	
111 1,3-Dichlorobenzene	146		10.301				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.421				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

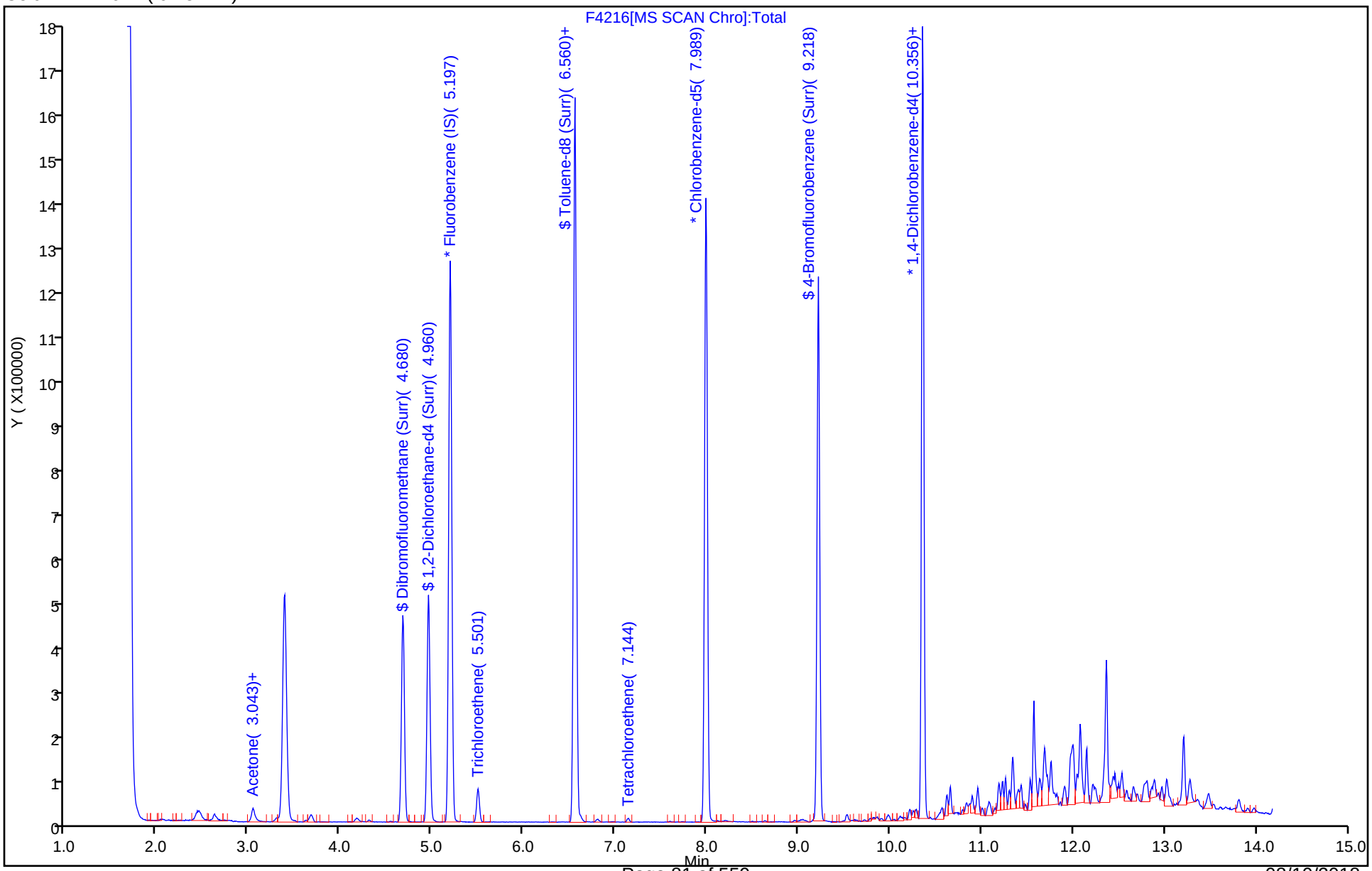
Report Date: 03-Aug-2018 06:30:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4216.D

Injection Date:	03-Aug-2018 01:39:30	Instrument ID:	HP5973F	Operator ID:	AEM
Lims ID:	480-139579-C-5-A	Lab Sample ID:	480-139579-5	Worklist Smp#:	12
Client ID:	PD1-23-SO-18-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

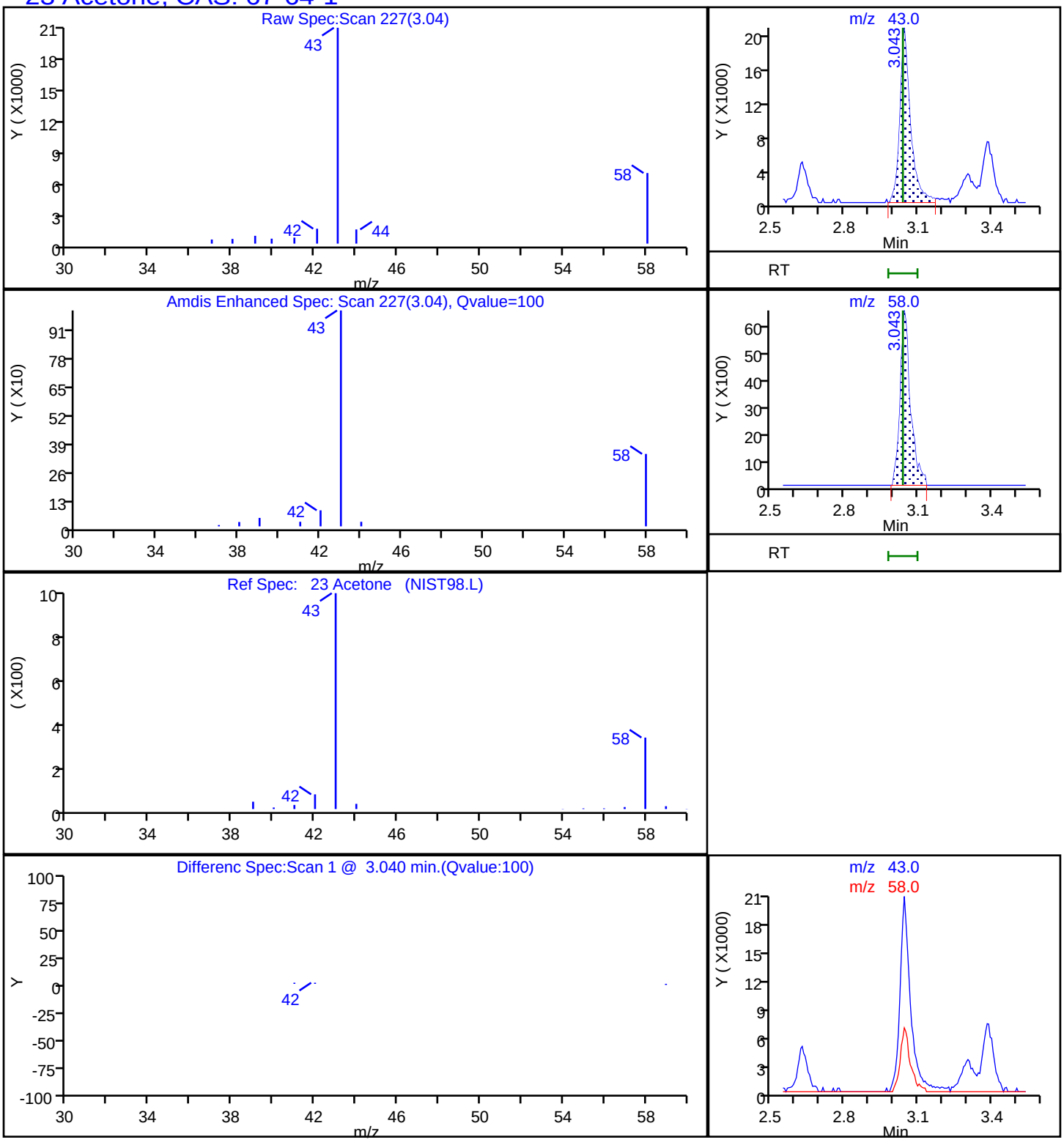


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4216.D

Injection Date:	03-Aug-2018 01:39:30	Instrument ID:	HP5973F		
Lims ID:	480-139579-C-5-A	Lab Sample ID:	480-139579-5		
Client ID:	PD1-23-SO-18-20180725				
Operator ID:	AEM	ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



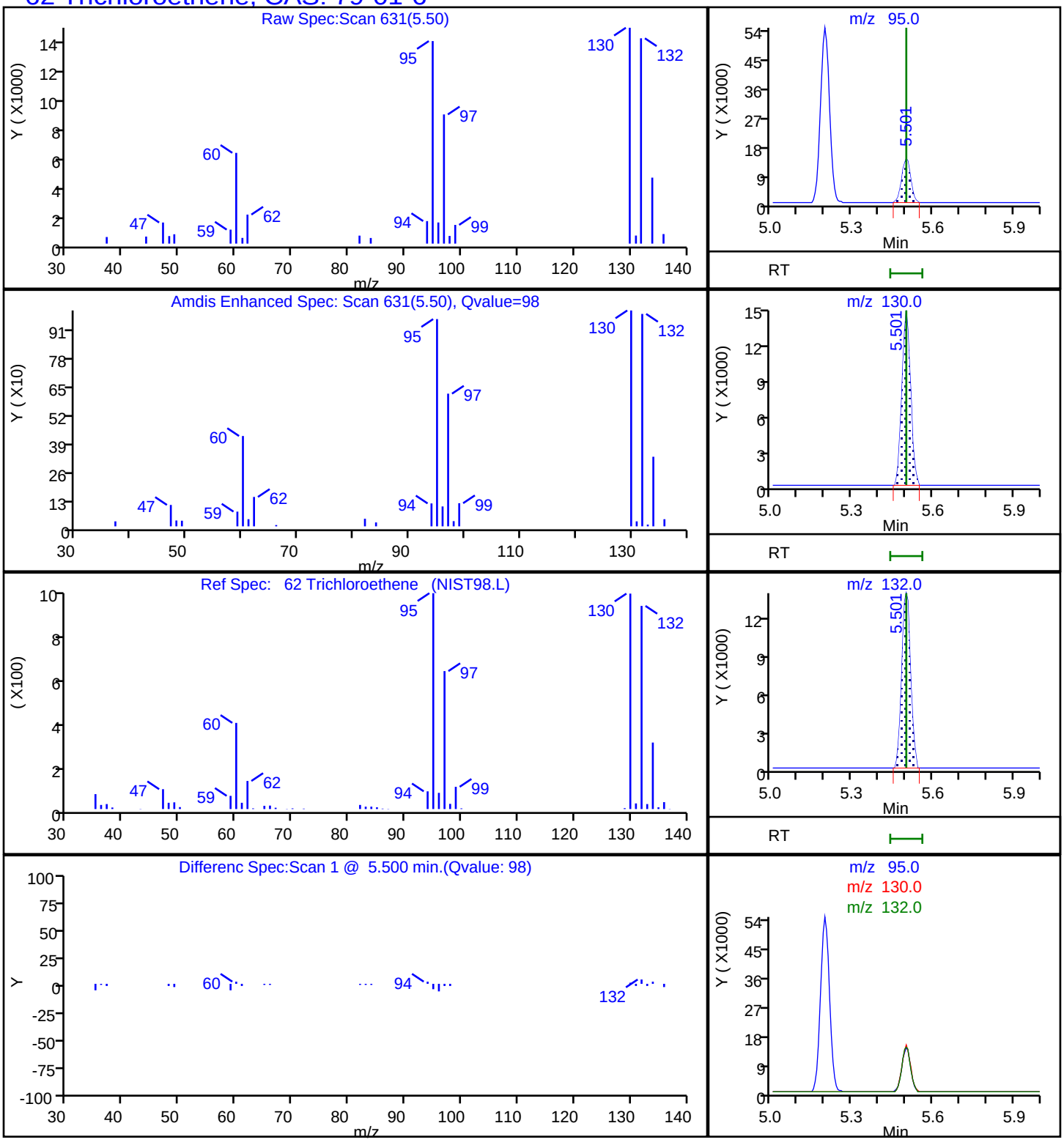
Report Date: 03-Aug-2018 06:30:50 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4216.D

Injection Date:	03-Aug-2018 01:39:30	Instrument ID:	HP5973F
Lims ID:	480-139579-C-5-A	Lab Sample ID:	480-139579-5
Client ID:	PD1-23-SO-18-20180725		
Operator ID:	AEM	ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-123-SO-18-20180725 | Lab Sample ID: 480-139579-6

Matrix: Solid | Lab File ID: F4217.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:40

Sample wt/vol: 6.474(g) | Date Analyzed: 08/03/2018 02:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.2 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.82
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.62
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.31
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	12	J	25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.49
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.42
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.65
98-82-8	Isopropylbenzene	ND		5.0	0.76
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-123-SO-18-20180725 | Lab Sample ID: 480-139579-6

Matrix: Solid | Lab File ID: F4217.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:40

Sample wt/vol: 6.474(g) | Date Analyzed: 08/03/2018 02:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.2 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	4.3	J	5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.48
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	100		71-125
1868-53-7	Dibromofluoromethane (Surr)	92		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4217.D
Lims ID: 480-139579-C-6-A
Client ID: PDI-123-SO-18-20180725
Sample Type: Client
Inject. Date: 03-Aug-2018 02:05:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-6-A
Misc. Info.: 480-0073626-013
Operator ID: AEM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Aug-2018 06:29:34 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0314

First Level Reviewer: cwiklinc Date: 03-Aug-2018 06:31:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	298409	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	614868	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	556625	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.668	0.006	94	336658	46.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.959	0.001	97	236723	49.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.001	93	1417682	50.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	461359	48.1	
10 Dichlorodifluoromethane	85		1.808				ND	
12 Chloromethane	50		1.997				ND	
13 Vinyl chloride	62		2.076				ND	
14 Bromomethane	94		2.368				ND	
15 Chloroethane	64		2.429				ND	
17 Trichlorofluoromethane	101		2.612				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.983				ND	
23 Acetone	43	3.043	3.037	0.006	99	37688	12.0	
26 Carbon disulfide	76		3.189				ND	
27 Methyl acetate	43		3.250				ND	
30 Methylene Chloride	84		3.360				ND	
32 Methyl tert-butyl ether	73		3.512				ND	
34 trans-1,2-Dichloroethene	96		3.542				ND	
39 1,1-Dichloroethane	63		3.865				ND	
43 2-Butanone (MEK)	43		4.297				ND	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	77	2650	0.2719	
50 Chloroform	83		4.546				ND	
51 1,1,1-Trichloroethane	97		4.686				ND	
52 Cyclohexane	56		4.716				ND	
55 Carbon tetrachloride	117		4.814				ND	
57 Benzene	78		4.984				ND	
58 1,2-Dichloroethane	62		5.021				ND	
62 Trichloroethene	95	5.501	5.501	0.000	97	39314	4.29	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.635				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.957				ND	
72 cis-1,3-Dichloropropene	75		6.335				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.432				ND	
74 Toluene	92		6.627				ND	
77 trans-1,3-Dichloropropene	75		6.846				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.137	7.138	-0.001	92	3312	0.3343	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.570				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.634				ND	
92 Styrene	104		8.653				ND	
95 Bromoform	173		8.926				ND	
94 Isopropylbenzene	105		9.005				ND	
97 1,1,2,2-Tetrachloroethane	83		9.389				ND	
111 1,3-Dichlorobenzene	146		10.301				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.421				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

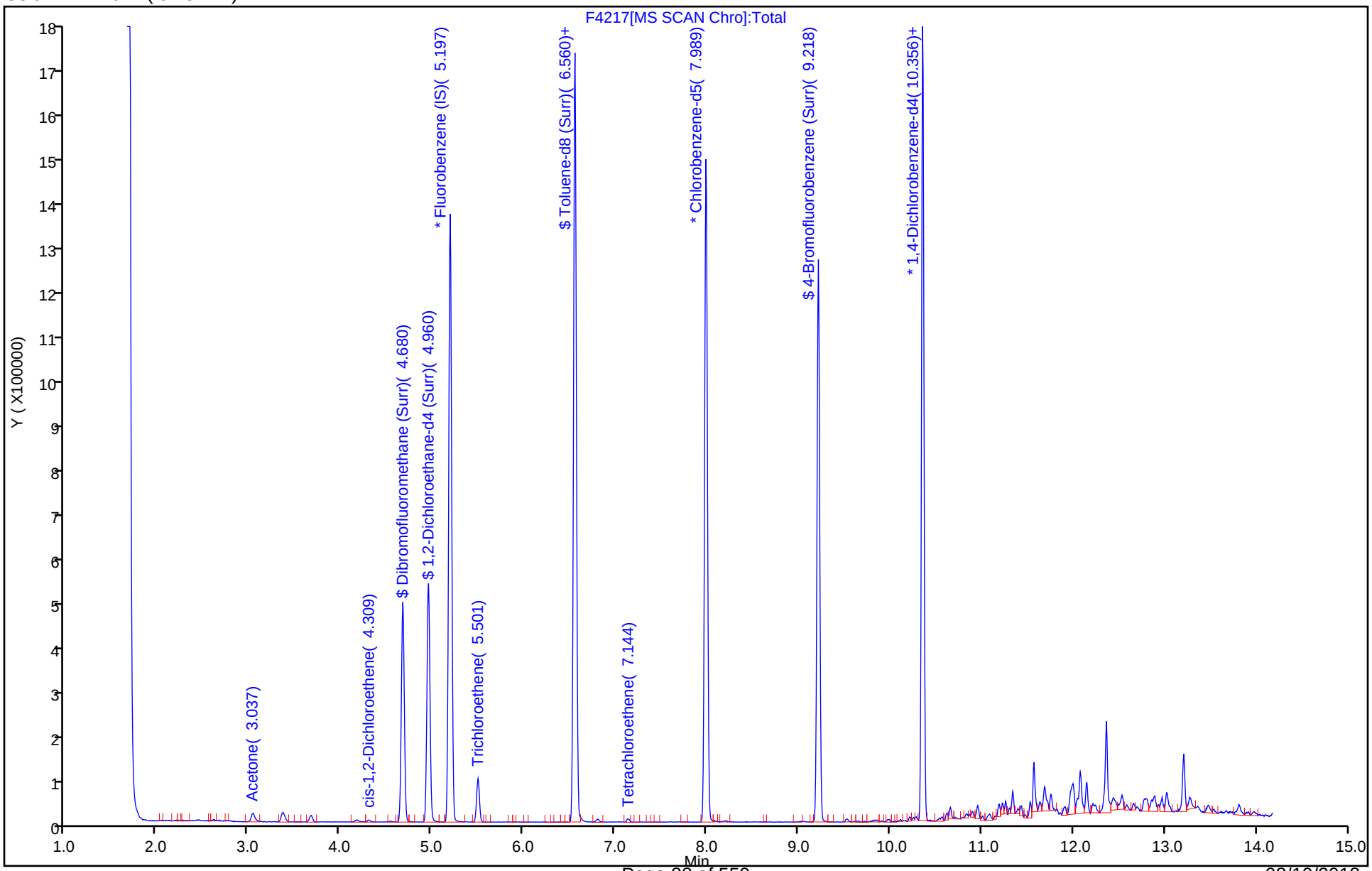
Report Date: 03-Aug-2018 06:31:21 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4217.D

Injection Date:	03-Aug-2018 02:05:30	Instrument ID:	HP5973F	Operator ID:	AEM
Lims ID:	480-139579-C-6-A	Lab Sample ID:	480-139579-6	Worklist Smp#:	13
Client ID:	PDI-123-SO-18-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



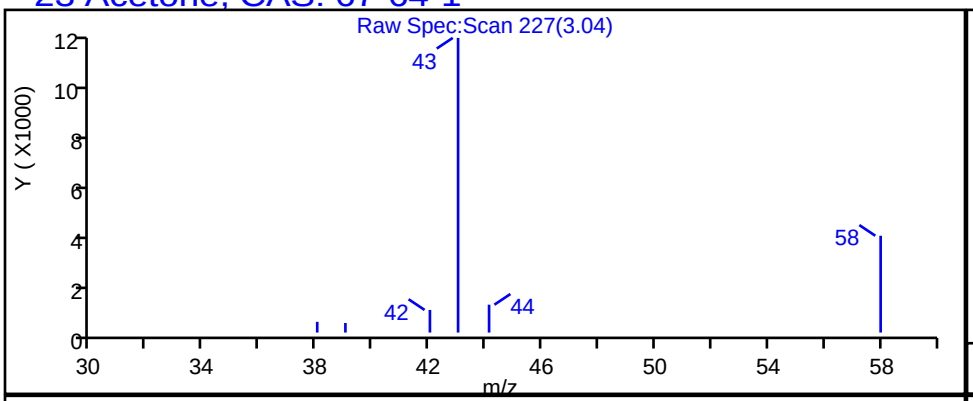
Report Date: 03-Aug-2018 06:31:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

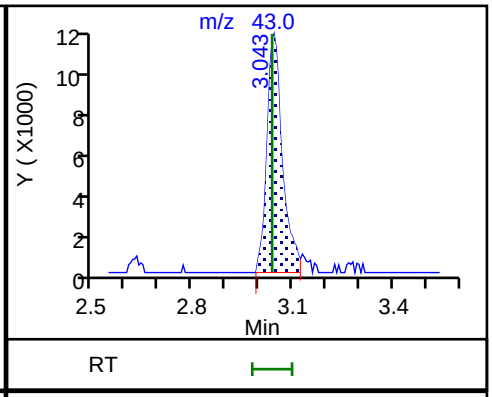
TestAmerica Buffalo

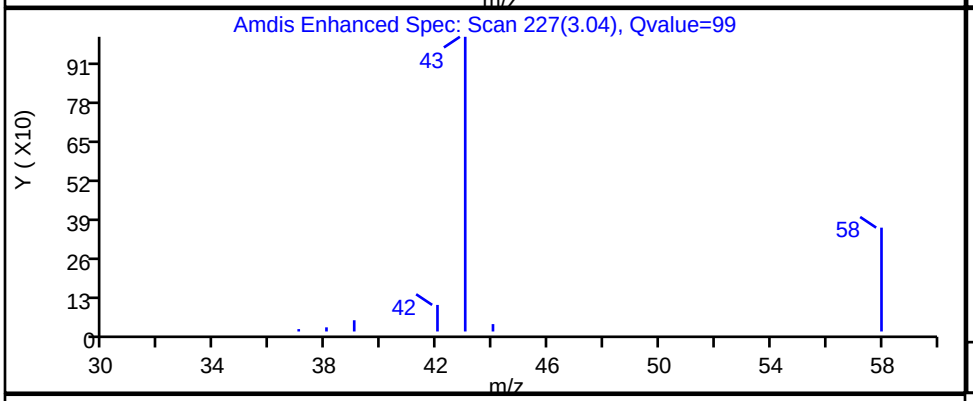
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4217.D

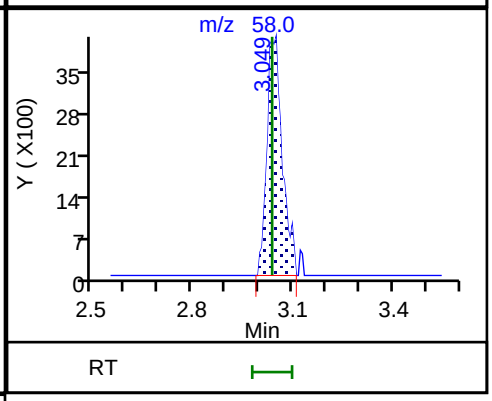
Injection Date:	03-Aug-2018 02:05:30	Instrument ID:	HP5973F
Lims ID:	480-139579-C-6-A	Lab Sample ID:	480-139579-6
Client ID:	PDI-123-SO-18-20180725		
Operator ID:	AEM	ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

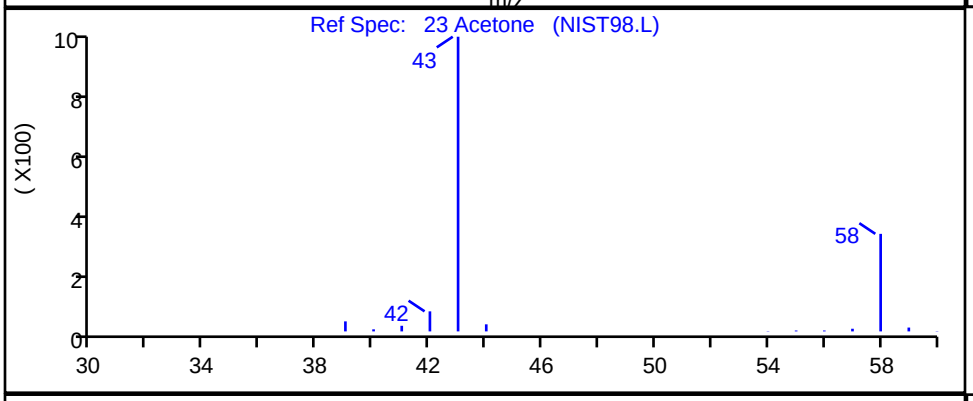
23 Acetone, CAS: 67-64-1

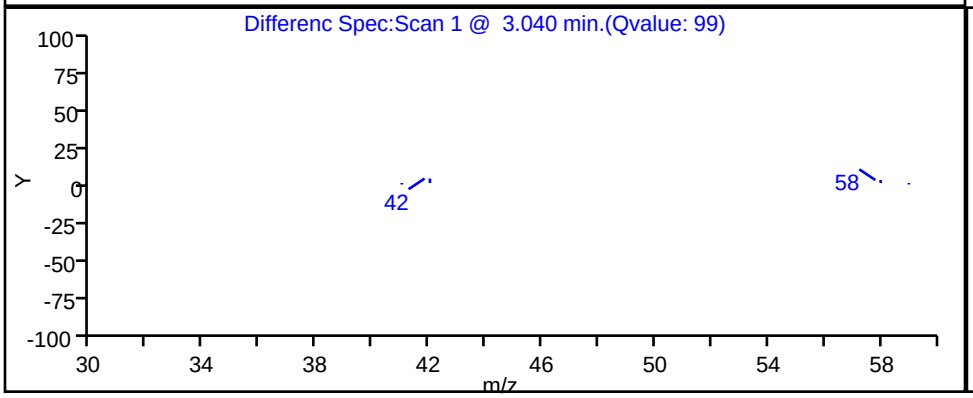


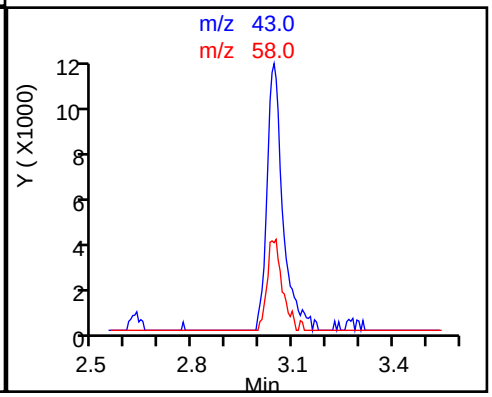












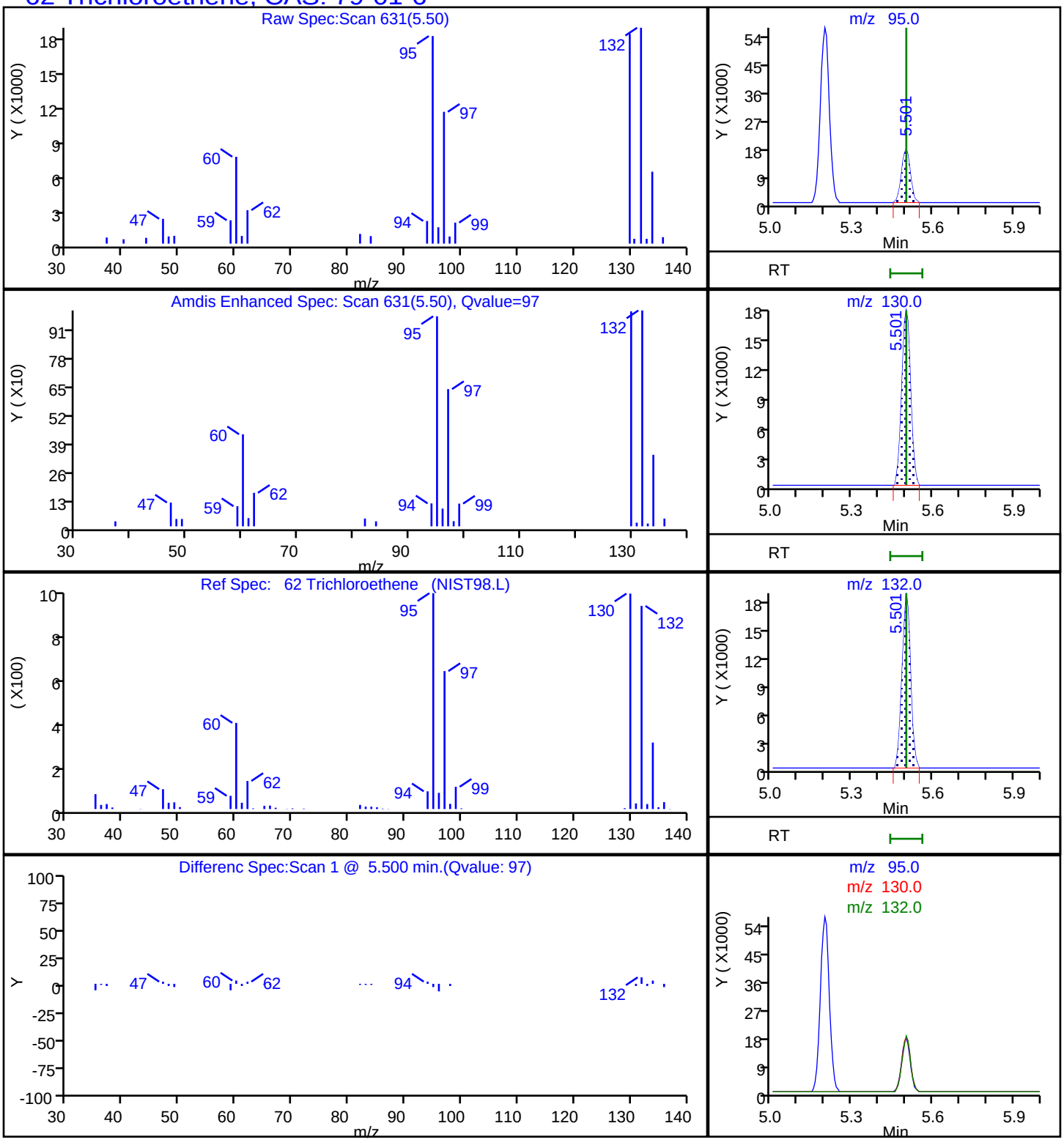
Report Date: 03-Aug-2018 06:31:22 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4217.D

Injection Date:	03-Aug-2018 02:05:30	Instrument ID:	HP5973F		
Lims ID:	480-139579-C-6-A	Lab Sample ID:	480-139579-6		
Client ID:	PDI-123-SO-18-20180725				
Operator ID:	AEM	ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-24-SO-18-20180725 | Lab Sample ID: 480-139579-7

Matrix: Solid | Lab File ID: F4218.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:50

Sample wt/vol: 6.83(g) | Date Analyzed: 08/03/2018 02:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 24.8 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.9	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.9	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.9	0.63
75-34-3	1,1-Dichloroethane	ND		4.9	0.59
75-35-4	1,1-Dichloroethene	ND		4.9	0.60
120-82-1	1,2,4-Trichlorobenzene	ND		4.9	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.9	2.4
95-50-1	1,2-Dichlorobenzene	ND		4.9	0.38
107-06-2	1,2-Dichloroethane	ND		4.9	0.24
78-87-5	1,2-Dichloropropane	ND		4.9	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.9	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.9	0.68
78-93-3	2-Butanone (MEK)	ND		24	1.8
591-78-6	2-Hexanone	ND		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	17	J	24	4.1
71-43-2	Benzene	ND		4.9	0.24
75-25-2	Bromoform	ND		4.9	2.4
74-83-9	Bromomethane	ND		4.9	0.44
75-15-0	Carbon disulfide	ND		4.9	2.4
56-23-5	Carbon tetrachloride	ND		4.9	0.47
108-90-7	Chlorobenzene	ND		4.9	0.64
124-48-1	Dibromochloromethane	ND		4.9	0.62
75-00-3	Chloroethane	ND		4.9	1.1
67-66-3	Chloroform	ND		4.9	0.30
74-87-3	Chloromethane	ND		4.9	0.29
156-59-2	cis-1,2-Dichloroethene	ND		4.9	0.62
110-82-7	Cyclohexane	ND		4.9	0.68
75-27-4	Bromodichloromethane	ND		4.9	0.65
75-71-8	Dichlorodifluoromethane	ND		4.9	0.40
100-41-4	Ethylbenzene	ND		4.9	0.34
106-93-4	1,2-Dibromoethane	ND		4.9	0.63
98-82-8	Isopropylbenzene	ND		4.9	0.73
79-20-9	Methyl acetate	ND		24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-24-SO-18-20180725 | Lab Sample ID: 480-139579-7

Matrix: Solid | Lab File ID: F4218.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:50

Sample wt/vol: 6.83(g) | Date Analyzed: 08/03/2018 02:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 24.8 | Level: (low/med) Low

Analysis Batch No.: 427843 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.9	0.48
108-87-2	Methylcyclohexane	ND		4.9	0.74
75-09-2	Methylene Chloride	ND		4.9	2.2
127-18-4	Tetrachloroethene	0.91	J	4.9	0.65
108-88-3	Toluene	ND		4.9	0.37
156-60-5	trans-1,2-Dichloroethene	ND		4.9	0.50
10061-02-6	trans-1,3-Dichloropropene	ND		4.9	2.1
79-01-6	Trichloroethene	20		4.9	1.1
75-69-4	Trichlorofluoromethane	ND		4.9	0.46
75-01-4	Vinyl chloride	ND		4.9	0.59
1330-20-7	Xylenes, Total	ND		9.7	0.82
10061-01-5	cis-1,3-Dichloropropene	ND		4.9	0.70
100-42-5	Styrene	ND		4.9	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
1868-53-7	Dibromofluoromethane (Surr)	93		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D
Lims ID: 480-139579-C-7-A
Client ID: PDI-24-SO-18-20180725
Sample Type: Client
Inject. Date: 03-Aug-2018 02:31:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-7-A
Misc. Info.: 480-0073626-014
Operator ID: AEM Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 03-Aug-2018 06:31:50 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0314

First Level Reviewer: cwiklinc Date: 03-Aug-2018 06:31:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	273062	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	564288	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	510252	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.668	0.006	94	311004	46.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.953	4.959	-0.006	97	222455	51.3	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.001	92	1293141	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	92	422454	48.0	
10 Dichlorodifluoromethane	85		1.808				ND	
12 Chloromethane	50		1.997				ND	
13 Vinyl chloride	62		2.076				ND	
14 Bromomethane	94		2.368				ND	
15 Chloroethane	64		2.429				ND	
17 Trichlorofluoromethane	101		2.612				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.983				ND	
23 Acetone	43	3.037	3.037	0.000	100	50597	17.7	
26 Carbon disulfide	76		3.189				ND	
27 Methyl acetate	43		3.250				ND	
30 Methylene Chloride	84		3.360				ND	
32 Methyl tert-butyl ether	73		3.512				ND	
34 trans-1,2-Dichloroethene	96		3.542				ND	
39 1,1-Dichloroethane	63		3.865				ND	
43 2-Butanone (MEK)	43		4.297				ND	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	63	2497	0.2800	
50 Chloroform	83		4.546				ND	
51 1,1,1-Trichloroethane	97		4.686				ND	U
52 Cyclohexane	56		4.716				ND	
55 Carbon tetrachloride	117		4.814				ND	
57 Benzene	78		4.984				ND	
58 1,2-Dichloroethane	62		5.021				ND	
62 Trichloroethene	95	5.495	5.501	-0.006	98	171416	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.635				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.957				ND	
72 cis-1,3-Dichloropropene	75		6.335				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.432				ND	
74 Toluene	92		6.627				ND	
77 trans-1,3-Dichloropropene	75		6.846				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.144	7.138	0.006	96	8519	0.9370	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.570				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.087				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.634				ND	
92 Styrene	104		8.653				ND	
95 Bromoform	173		8.926				ND	
94 Isopropylbenzene	105		9.005				ND	
97 1,1,2,2-Tetrachloroethane	83		9.389				ND	
111 1,3-Dichlorobenzene	146		10.301				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.727				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.421				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

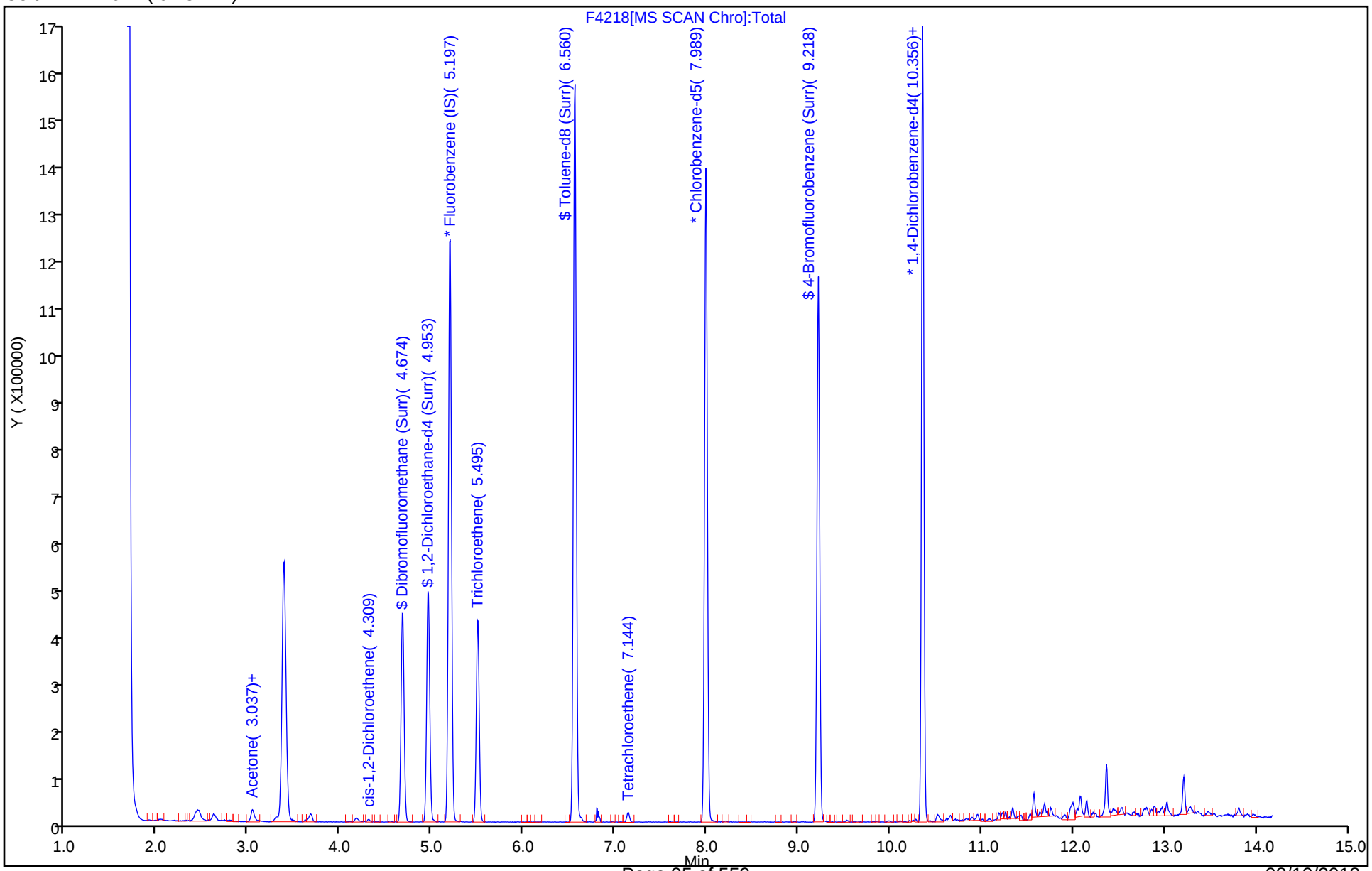
Report Date: 03-Aug-2018 06:31:51 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D

Injection Date:	03-Aug-2018 02:31:30	Instrument ID:	HP5973F	Operator ID:	AEM
Lims ID:	480-139579-C-7-A	Lab Sample ID:	480-139579-7	Worklist Smp#:	14
Client ID:	PDI-24-SO-18-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)

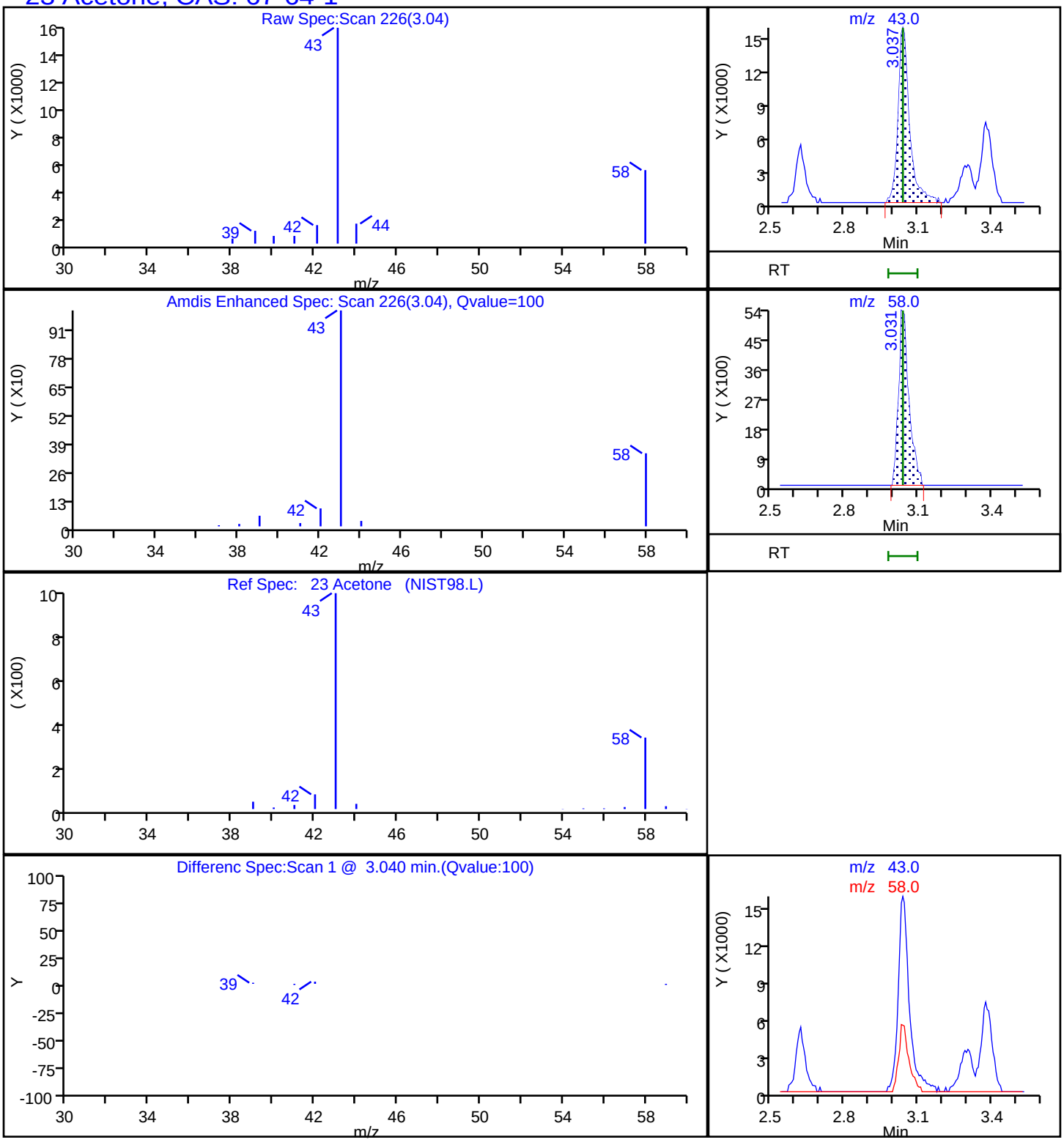


TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D

Injection Date:	03-Aug-2018 02:31:30	Instrument ID:	HP5973F		
Lims ID:	480-139579-C-7-A	Lab Sample ID:	480-139579-7		
Client ID:	PDI-24-SO-18-20180725				
Operator ID:	AEM	ALS Bottle#:	13	Worklist Smp#:	14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



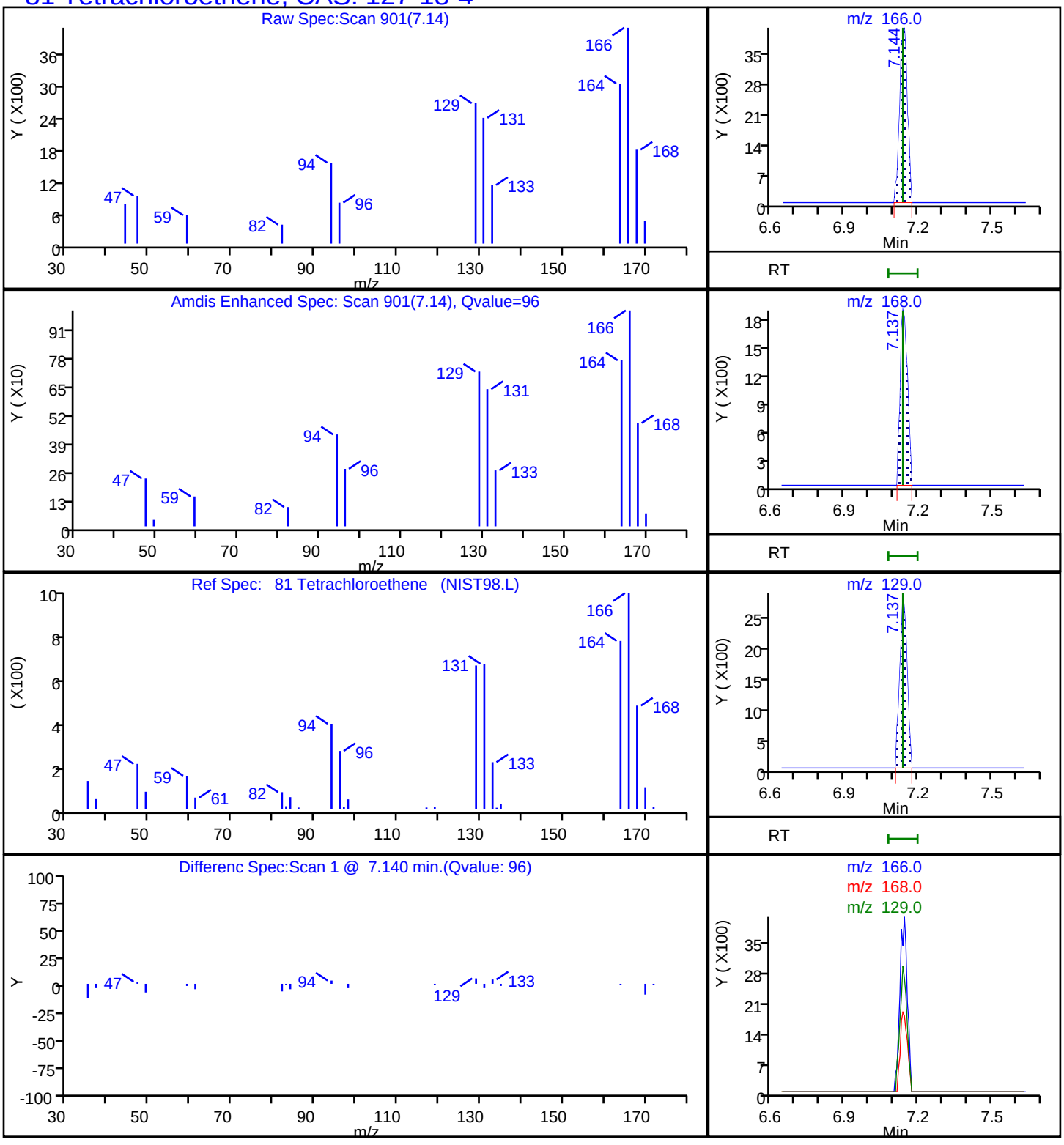
Report Date: 03-Aug-2018 06:31:51 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D

Injection Date:	03-Aug-2018 02:31:30	Instrument ID:	HP5973F
Lims ID:	480-139579-C-7-A	Lab Sample ID:	480-139579-7
Client ID:	PDI-24-SO-18-20180725		
Operator ID:	AEM	ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



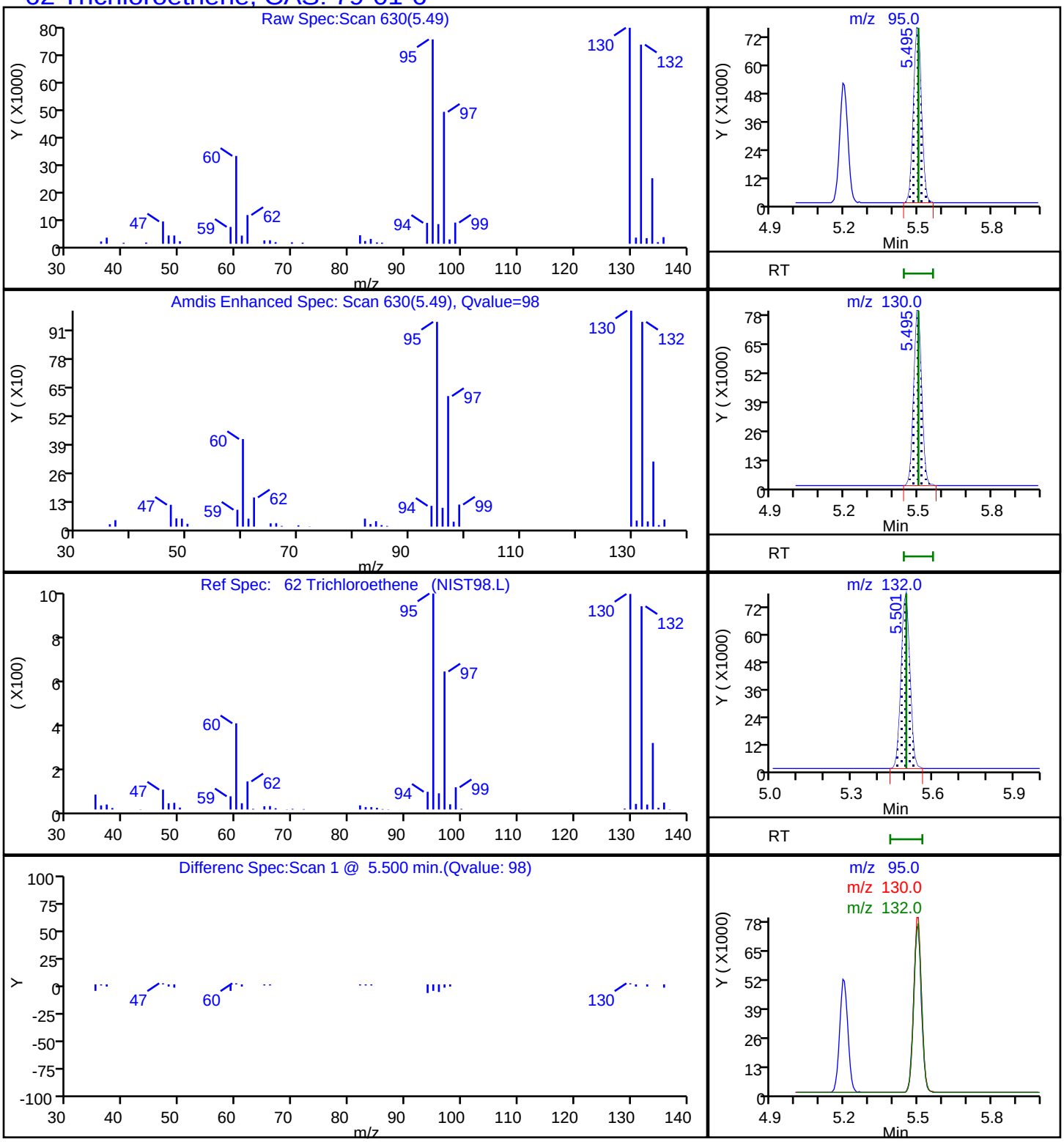
Report Date: 03-Aug-2018 06:31:51 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D

Injection Date:	03-Aug-2018 02:31:30	Instrument ID:	HP5973F
Lims ID:	480-139579-C-7-A	Lab Sample ID:	480-139579-7
Client ID:	PDI-24-SO-18-20180725		
Operator ID:	AEM	ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



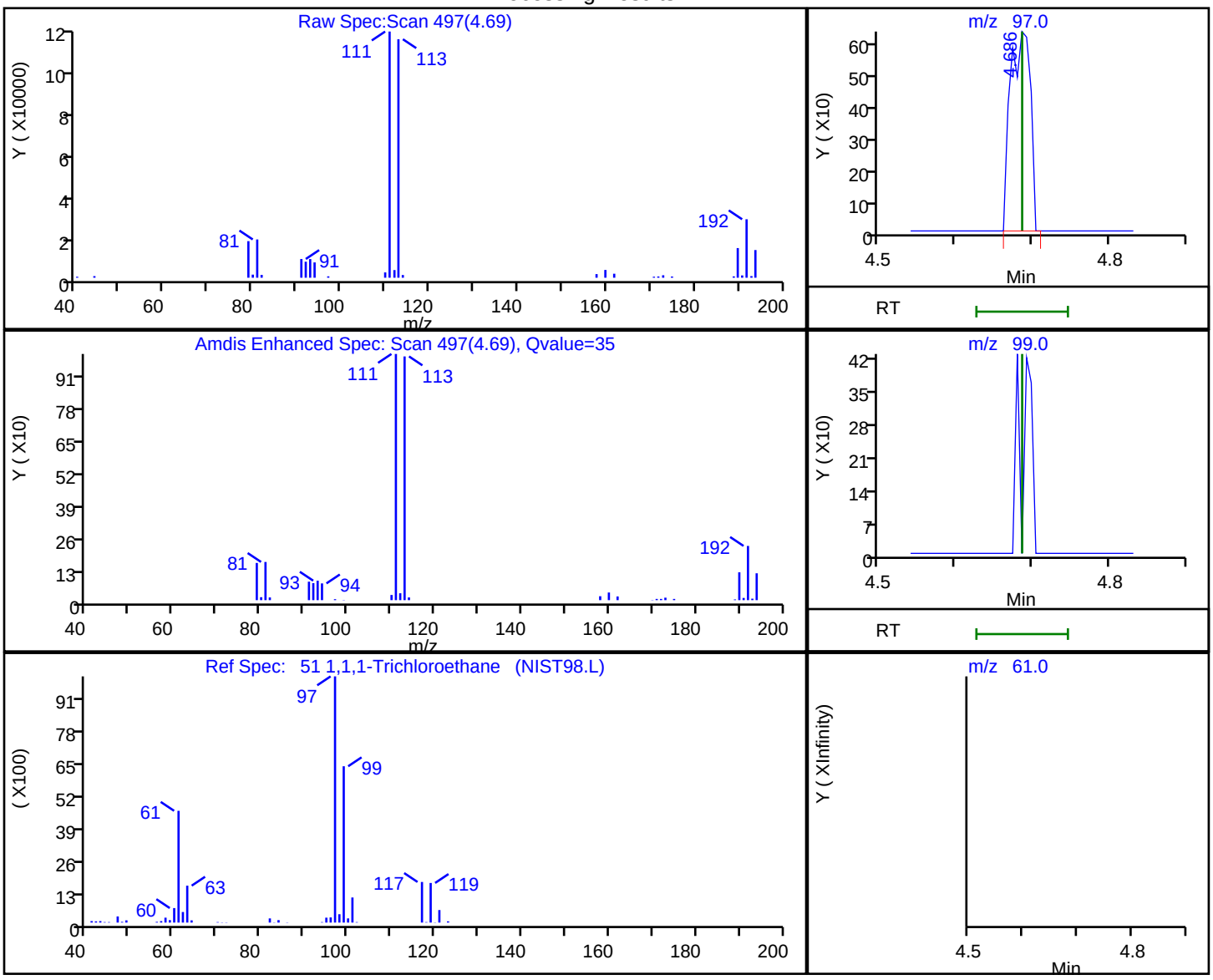
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4218.D
Injection Date: 03-Aug-2018 02:31:30 Instrument ID: HP5973F
Lims ID: 480-139579-C-7-A Lab Sample ID: 480-139579-7
Client ID: PDI-24-SO-18-20180725
Operator ID: AEM ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
4.69	97.00	1157	0.093937
4.69	99.00	0	
4.69	61.00	0	

Reviewer: cwiklinc, 03-Aug-2018 06:31:39
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 | Lab Sample ID: 480-139579-8

Matrix: Solid | Lab File ID: F4203.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 6.933(g) | Date Analyzed: 08/02/2018 19:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	F1	4.6	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1	4.6	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.56
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1	4.6	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND	F1	4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.65
78-93-3	2-Butanone (MEK)	ND	F1	23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	13	J F1	23	3.9
71-43-2	Benzene	ND		4.6	0.23
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.41
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND	F1	4.6	0.45
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND	F1	4.6	0.28
74-87-3	Chloromethane	ND	F1	4.6	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.6	0.59
110-82-7	Cyclohexane	ND		4.6	0.65
75-27-4	Bromodichloromethane	ND		4.6	0.62
75-71-8	Dichlorodifluoromethane	ND	F1	4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
106-93-4	1,2-Dibromoethane	ND	F1	4.6	0.59
98-82-8	Isopropylbenzene	ND		4.6	0.70
79-20-9	Methyl acetate	ND		23	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 | Lab Sample ID: 480-139579-8

Matrix: Solid | Lab File ID: F4203.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 6.933(g) | Date Analyzed: 08/02/2018 19:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	ND		4.6	2.1
127-18-4	Tetrachloroethene	ND		4.6	0.62
108-88-3	Toluene	ND		4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.48
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	2.5	J	4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.44
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.2	0.77
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.66
100-42-5	Styrene	ND		4.6	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
460-00-4	4-Bromofluorobenzene (Surr)	95		72-126
2037-26-5	Toluene-d8 (Surr)	99		71-125
1868-53-7	Dibromofluoromethane (Surr)	94		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4203.D
Lims ID: 480-139579-C-8-A
Client ID: PDI-25-SO-14-20180725
Sample Type: Client
Inject. Date: 02-Aug-2018 19:31:30 ALS Bottle#: 15 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-8-A
Misc. Info.: 25
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 20:31:07 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: milligana Date: 02-Aug-2018 20:31:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	298413	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	607541	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	542419	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	94	344022	47.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	97	239566	50.5	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1393188	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	448780	47.4	
10 Dichlorodifluoromethane	85		1.808				ND	
12 Chloromethane	50		1.997				ND	
13 Vinyl chloride	62		2.076				ND	
14 Bromomethane	94		2.368				ND	
15 Chloroethane	64		2.429				ND	
17 Trichlorofluoromethane	101		2.611				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964				ND	
22 1,1-Dichloroethene	96		2.982				ND	
23 Acetone	43	3.043	3.037	0.006	100	44703	14.3	
26 Carbon disulfide	76		3.189				ND	
27 Methyl acetate	43		3.250				ND	
30 Methylene Chloride	84		3.360				ND	
32 Methyl tert-butyl ether	73		3.512				ND	
34 trans-1,2-Dichloroethene	96		3.542				ND	
39 1,1-Dichloroethane	63		3.864				ND	
43 2-Butanone (MEK)	43		4.296				ND	
45 cis-1,2-Dichloroethene	96		4.309				ND	
50 Chloroform	83		4.546				ND	
51 1,1,1-Trichloroethane	97		4.686				ND	
52 Cyclohexane	56		4.716				ND	
55 Carbon tetrachloride	117		4.814				ND	
57 Benzene	78		4.984				ND	
58 1,2-Dichloroethane	62		5.020				ND	U
62 Trichloroethene	95	5.501	5.501	0.000	97	25092	2.74	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		5.635				ND	
65 1,2-Dichloropropane	63		5.714				ND	
68 Dichlorobromomethane	83		5.957				ND	
72 cis-1,3-Dichloropropene	75		6.334				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438				ND	
74 Toluene	92		6.620				ND	
77 trans-1,3-Dichloropropene	75		6.845				ND	
79 1,1,2-Trichloroethane	83		7.040				ND	
81 Tetrachloroethene	166	7.144	7.144	0.000	90	3129	0.3196	
80 2-Hexanone	43		7.223				ND	
83 Chlorodibromomethane	129		7.442				ND	
84 Ethylene Dibromide	107		7.569				ND	
87 Chlorobenzene	112		8.020				ND	
88 Ethylbenzene	91		8.086				ND	
90 m-Xylene & p-Xylene	106		8.202				ND	
91 o-Xylene	106		8.634				ND	
92 Styrene	104		8.652				ND	
95 Bromoform	173		8.926				ND	
94 Isopropylbenzene	105		8.999				ND	
97 1,1,2,2-Tetrachloroethane	83		9.388				ND	
111 1,3-Dichlorobenzene	146		10.295				ND	
113 1,4-Dichlorobenzene	146		10.380				ND	
116 1,2-Dichlorobenzene	146		10.733				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414				ND	
119 1,2,4-Trichlorobenzene	180		12.053				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

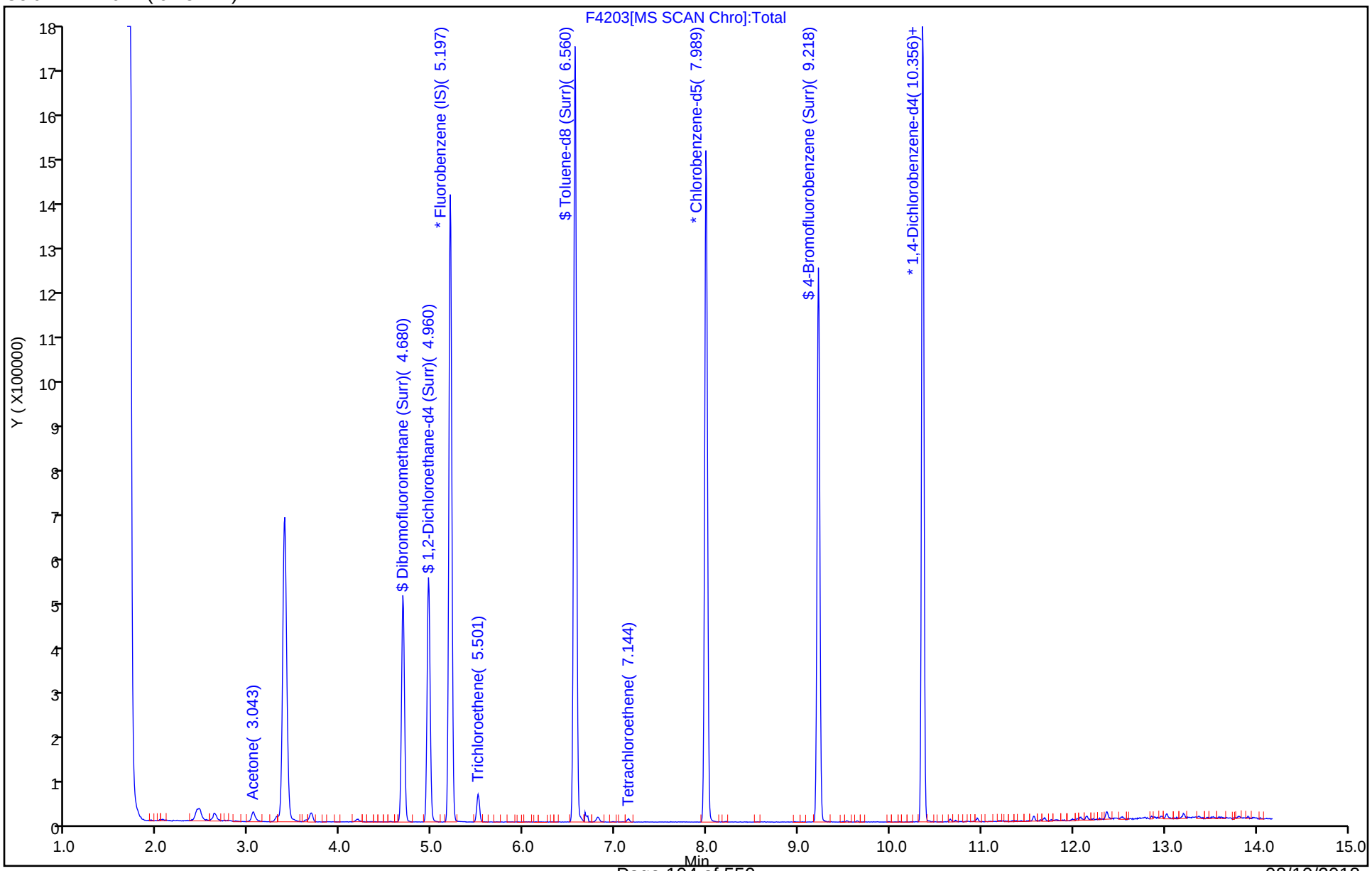
Report Date: 02-Aug-2018 20:31:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4203.D

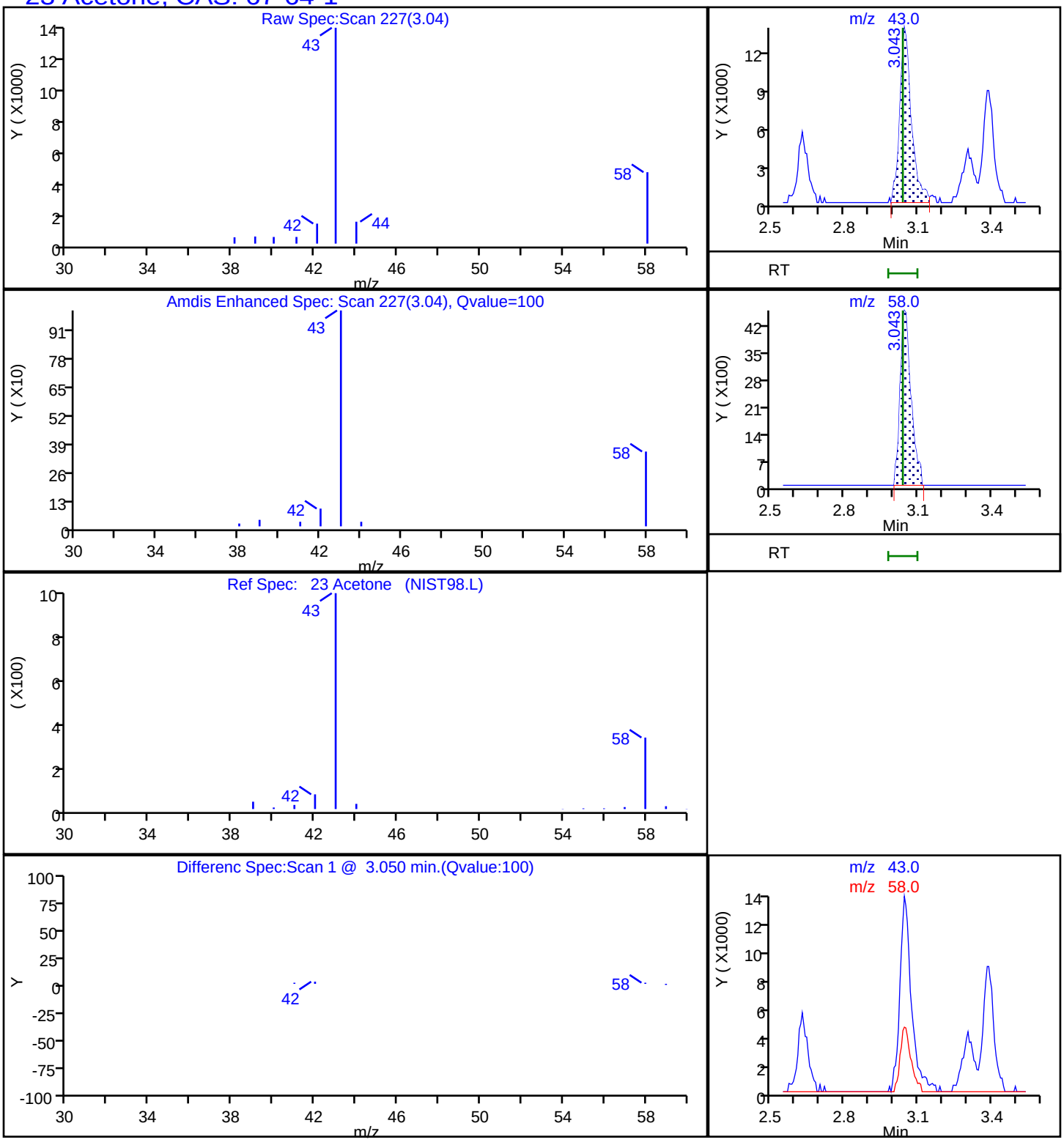
Injection Date:	02-Aug-2018 19:31:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-139579-C-8-A	Lab Sample ID:	480-139579-8	Worklist Smp#:	25
Client ID:	PDI-25-SO-14-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4203.D
Injection Date: 02-Aug-2018 19:31:30 Instrument ID: HP5973F
Lims ID: 480-139579-C-8-A Lab Sample ID: 480-139579-8
Client ID: PDI-25-SO-14-20180725
Operator ID: CDC ALS Bottle#: 15 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

23 Acetone, CAS: 67-64-1



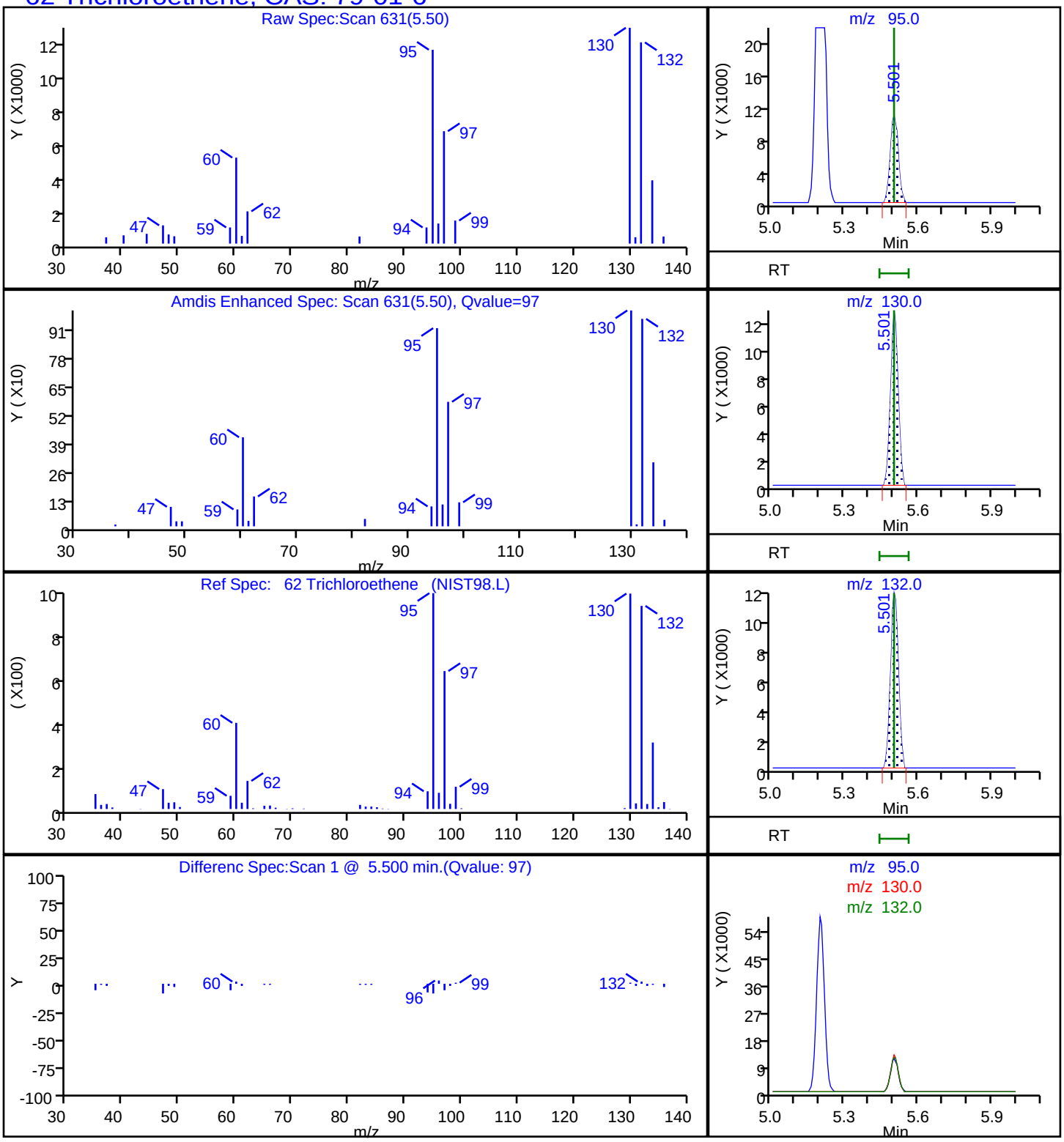
Report Date: 02-Aug-2018 20:31:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4203.D

Injection Date:	02-Aug-2018 19:31:30	Instrument ID:	HP5973F		
Lims ID:	480-139579-C-8-A	Lab Sample ID:	480-139579-8		
Client ID:	PDI-25-SO-14-20180725				
Operator ID:	CDC	ALS Bottle#:	15	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



User Disabled Compound Report

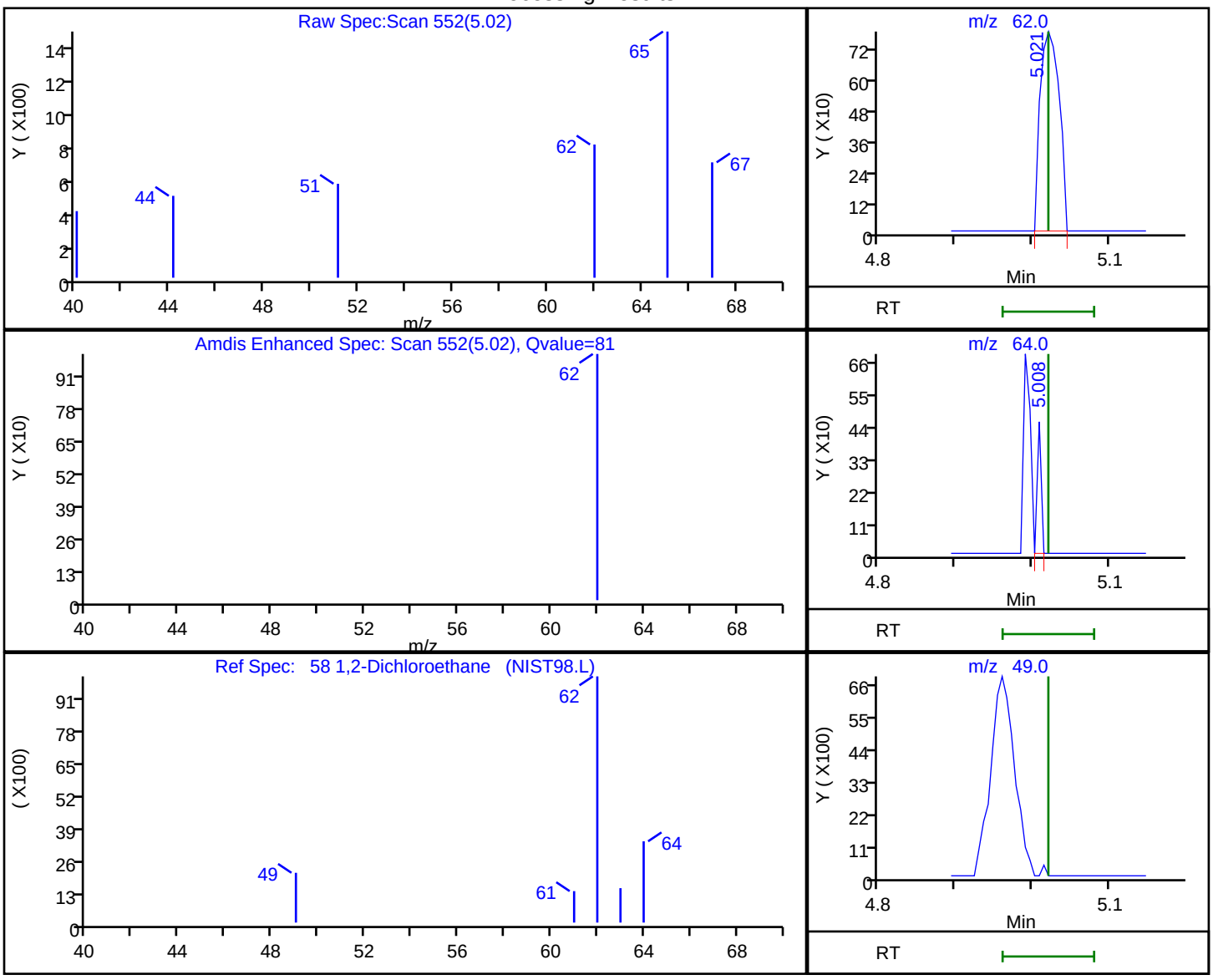
TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4203.D

Injection Date:	02-Aug-2018 19:31:30	Instrument ID:	HP5973F		
Lims ID:	480-139579-C-8-A	Lab Sample ID:	480-139579-8		
Client ID:	PDI-25-SO-14-20180725				
Operator ID:	CDC	ALS Bottle#:	15	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.02	62.00	1355	0.103342
5.01	64.00	164	
5.02	49.00	0	

Reviewer: milligana, 02-Aug-2018 20:30:40

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-4-20180724 | Lab Sample ID: 480-139579-1

Matrix: Water | Lab File ID: F68540.D

Analysis Method: 8260C | Date Collected: 07/24/2018 10:10

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 11:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541225 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.46	J	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	1.3		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-4-20180724 Lab Sample ID: 480-139579-1

Matrix: Water Lab File ID: F68540.D

Analysis Method: 8260C Date Collected: 07/24/2018 10:10

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2018 11:59

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 541225 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	3.4		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	51		1.0	0.31
75-69-4	Trichlorofluoromethane	0.61	J	1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	92		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D
Lims ID: 480-139579-F-1
Client ID: MW-161-4-20180724
Sample Type: Client
Inject. Date: 01-Aug-2018 11:59:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-F-1
Misc. Info.: 460-0076436-016
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 12:25:22 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 01-Aug-2018 12:25:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Trichlorofluoromethane	101	2.363	2.363	0.000	95	3222	0.6090	
* 26 TBA-d9 (IS)	65	3.193	3.209	-0.016	0	93157	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	135598	250.0	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	90	4881	1.29	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.008	35	2204	0.4580	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	97	64653	49.3	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	76688	54.8	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	263078	50.0	
63 Trichloroethene	95	5.674	5.674	0.000	98	164165	50.6	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	6519	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	98	227029	49.2	
79 Toluene	91	7.047	7.055	-0.009	96	3600	0.3047	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	9757	3.38	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	89	167466	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	87	62140	46.0	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.900	0.008	97	86521	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

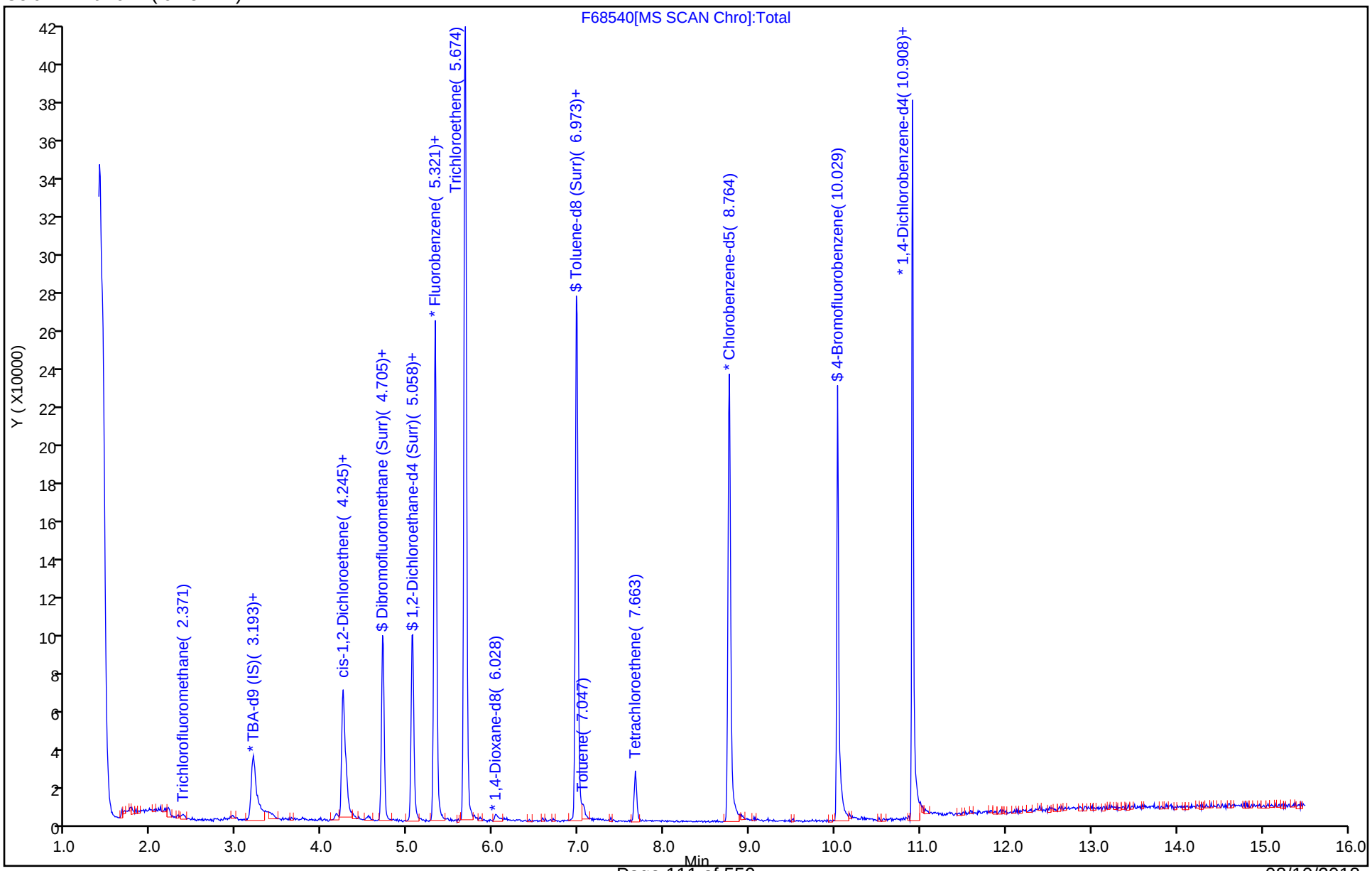
Report Date: 01-Aug-2018 12:25:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D

Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1	Worklist Smp#:	16
Client ID:	MW-161-4-20180724				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

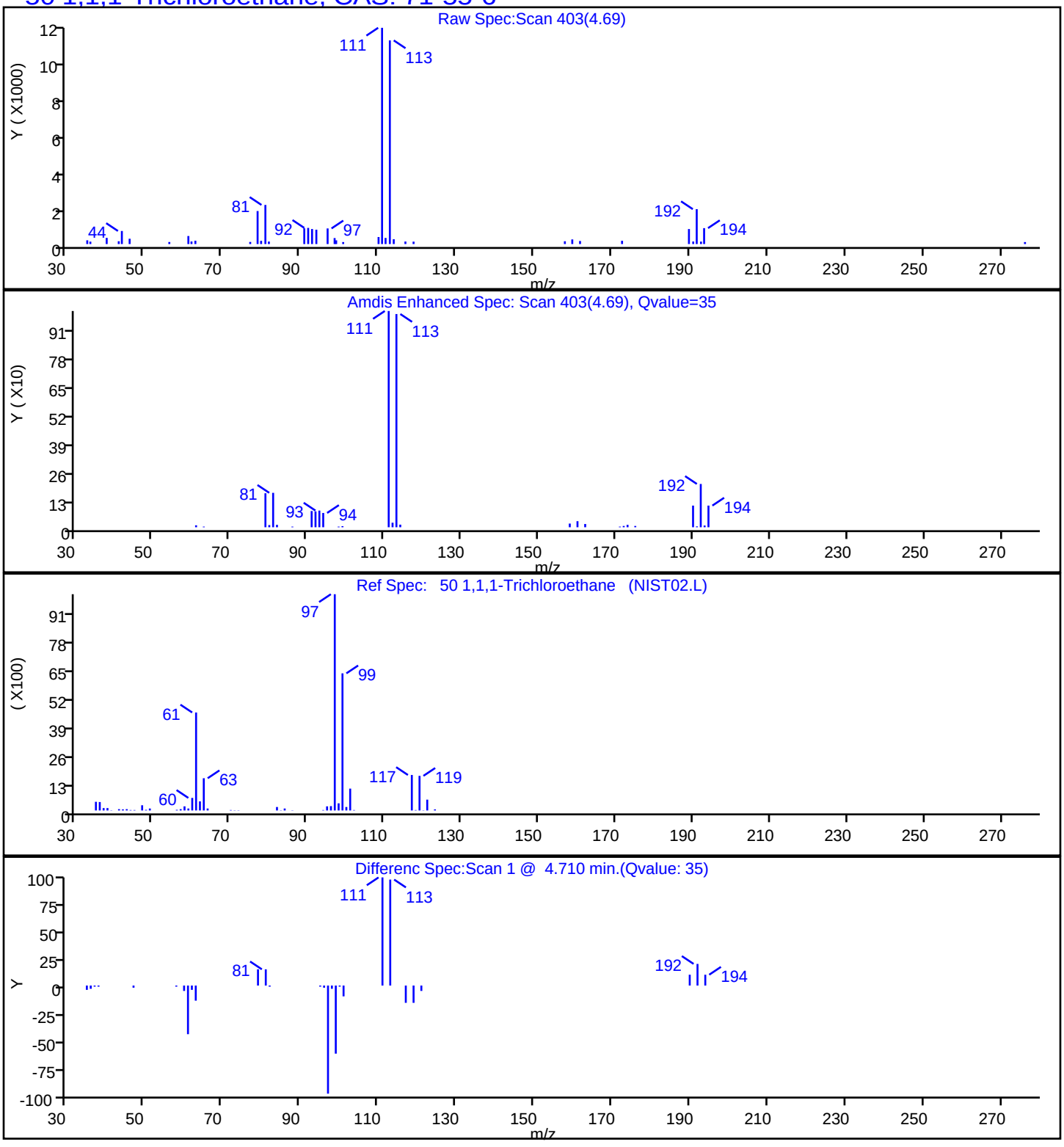
Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D

Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1
Client ID:	MW-161-4-20180724		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

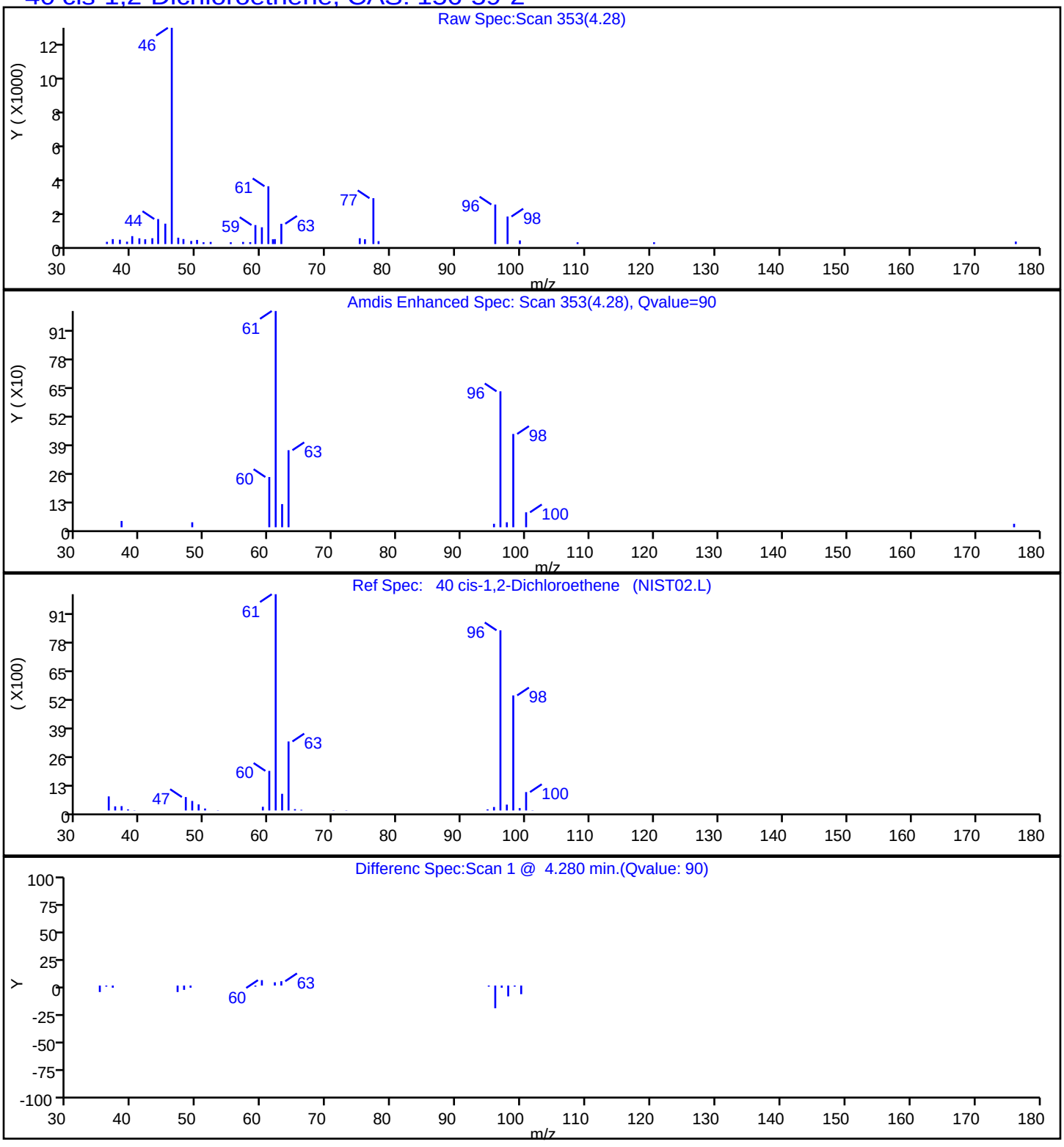
50 1,1,1-Trichloroethane, CAS: 71-55-6



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D

Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1
Client ID:	MW-161-4-20180724		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

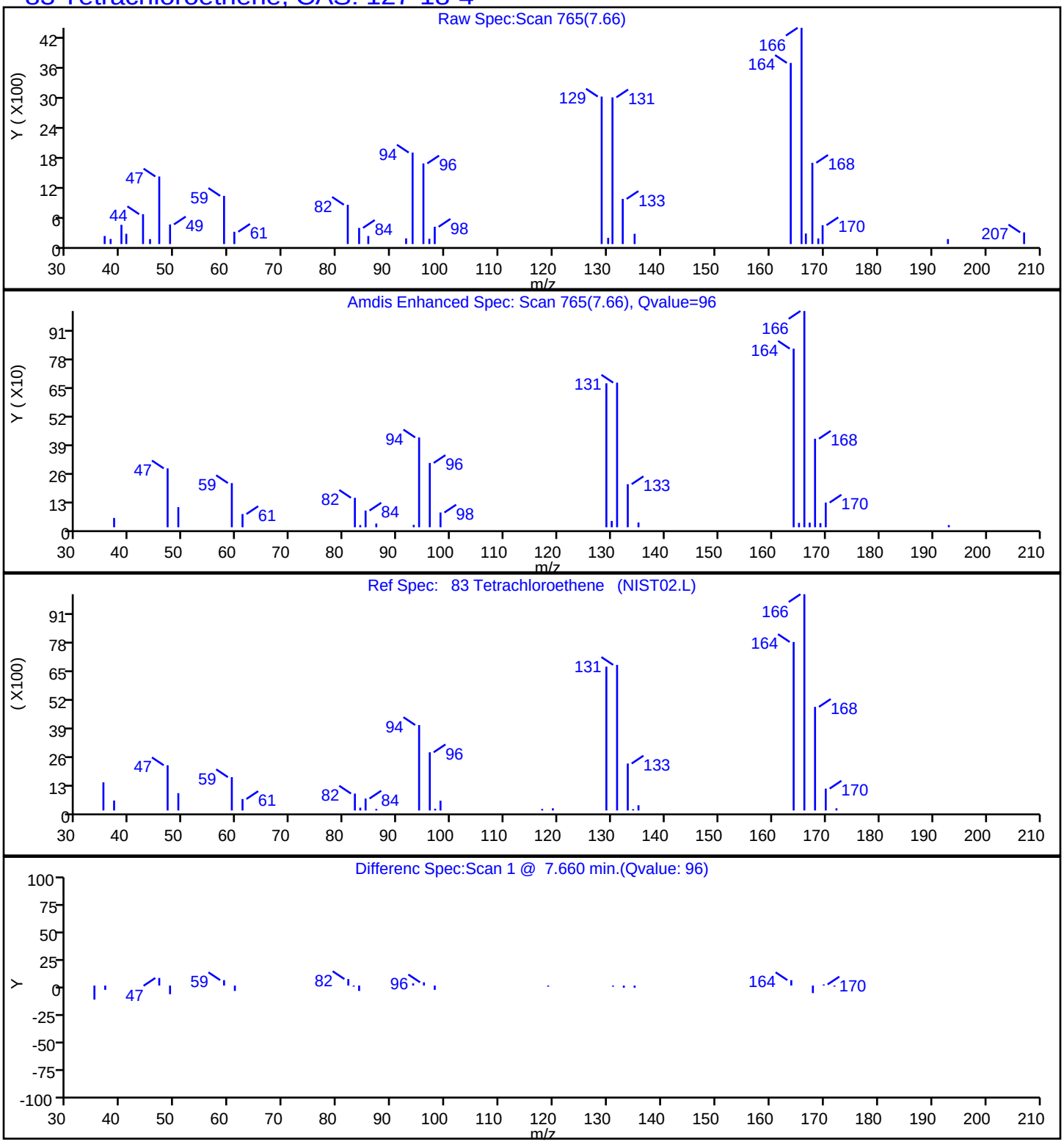
40 cis-1,2-Dichloroethene, CAS: 156-59-2



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D

Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1
Client ID:	MW-161-4-20180724		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

83 Tetrachloroethene, CAS: 127-18-4



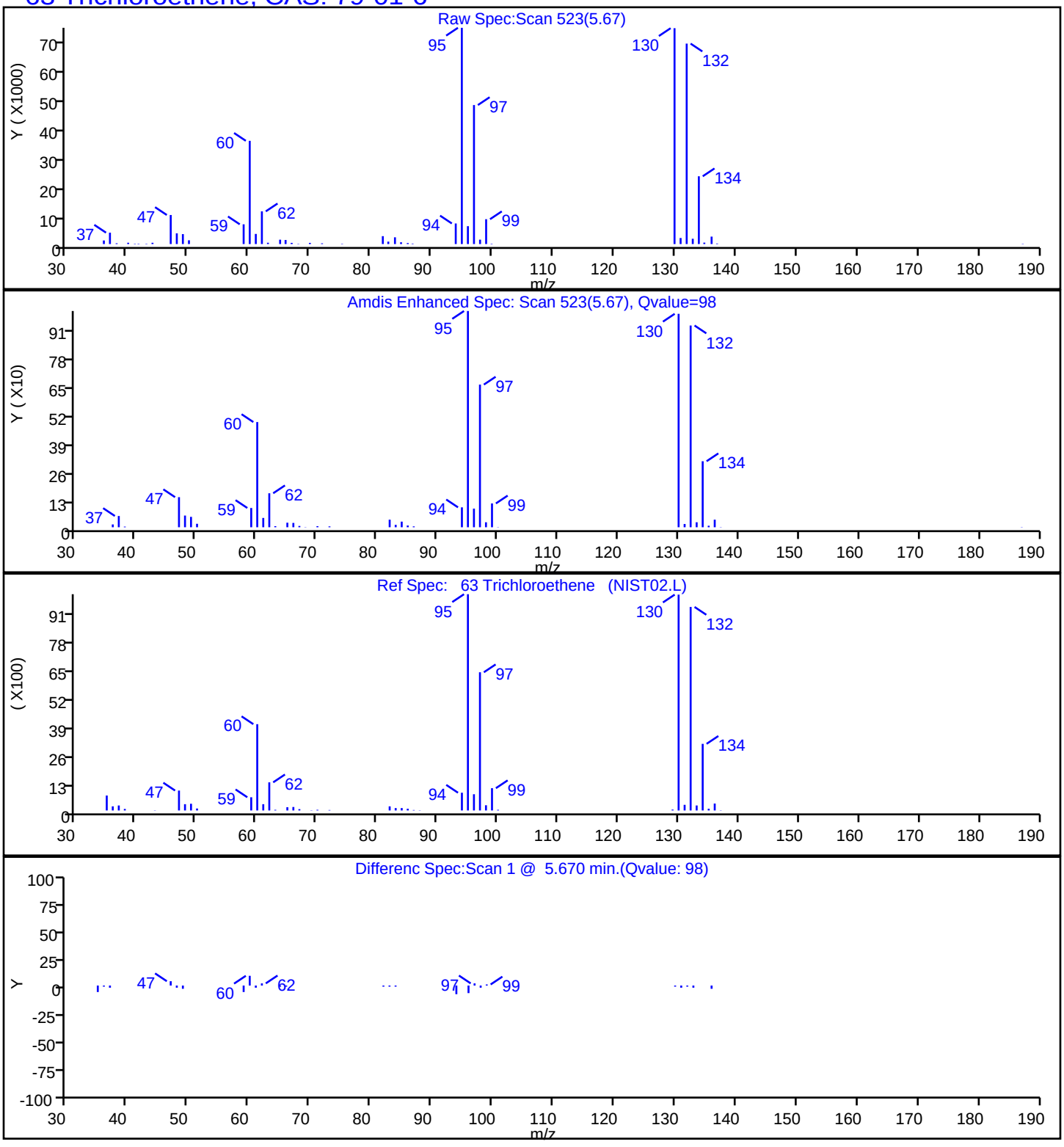
Report Date: 01-Aug-2018 12:25:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D

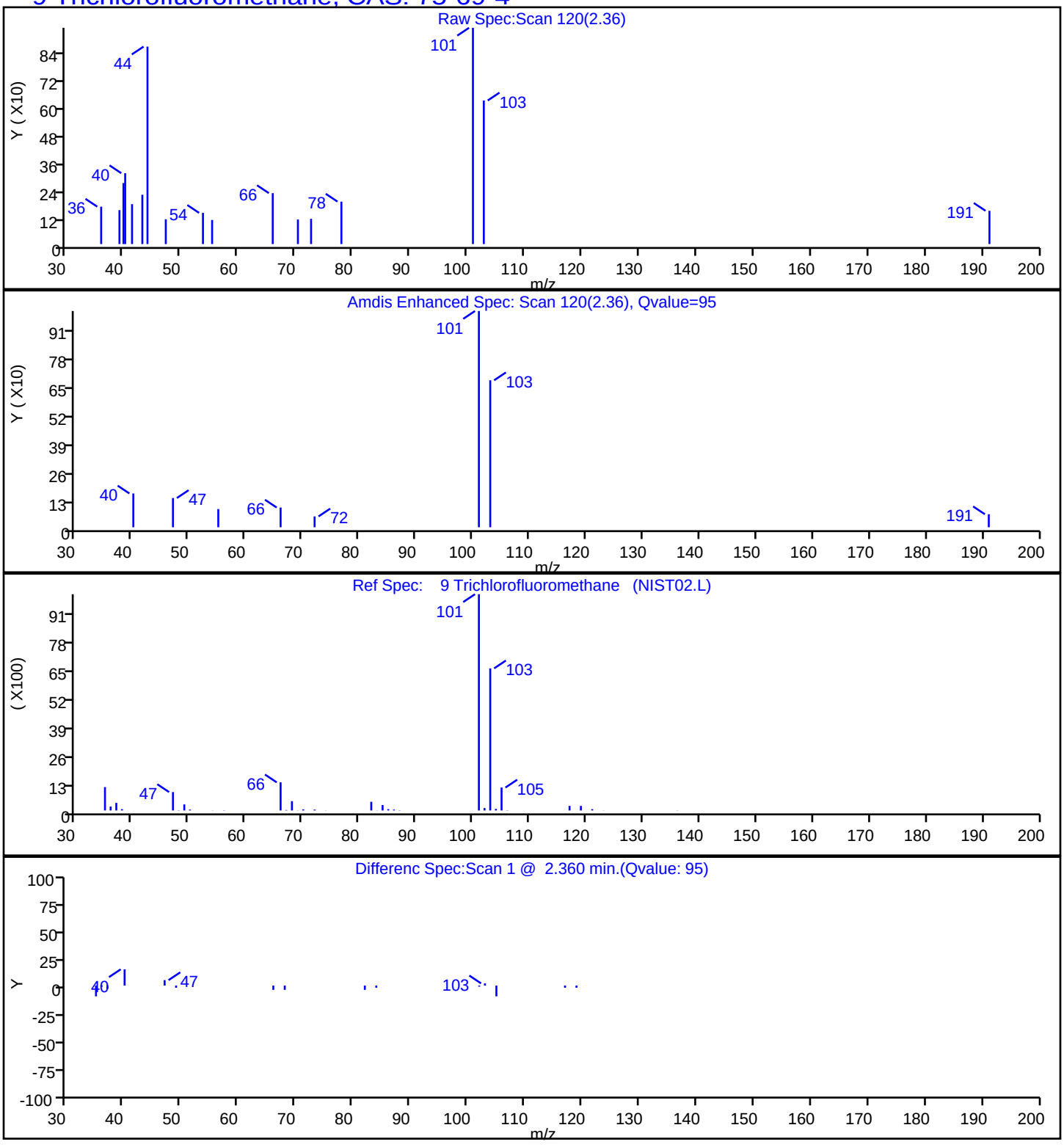
Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1
Client ID:	MW-161-4-20180724		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

63 Trichloroethene, CAS: 79-01-6



Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D				
Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1		
Client ID:	MW-161-4-20180724				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

9 Trichlorofluoromethane, CAS: 75-69-4



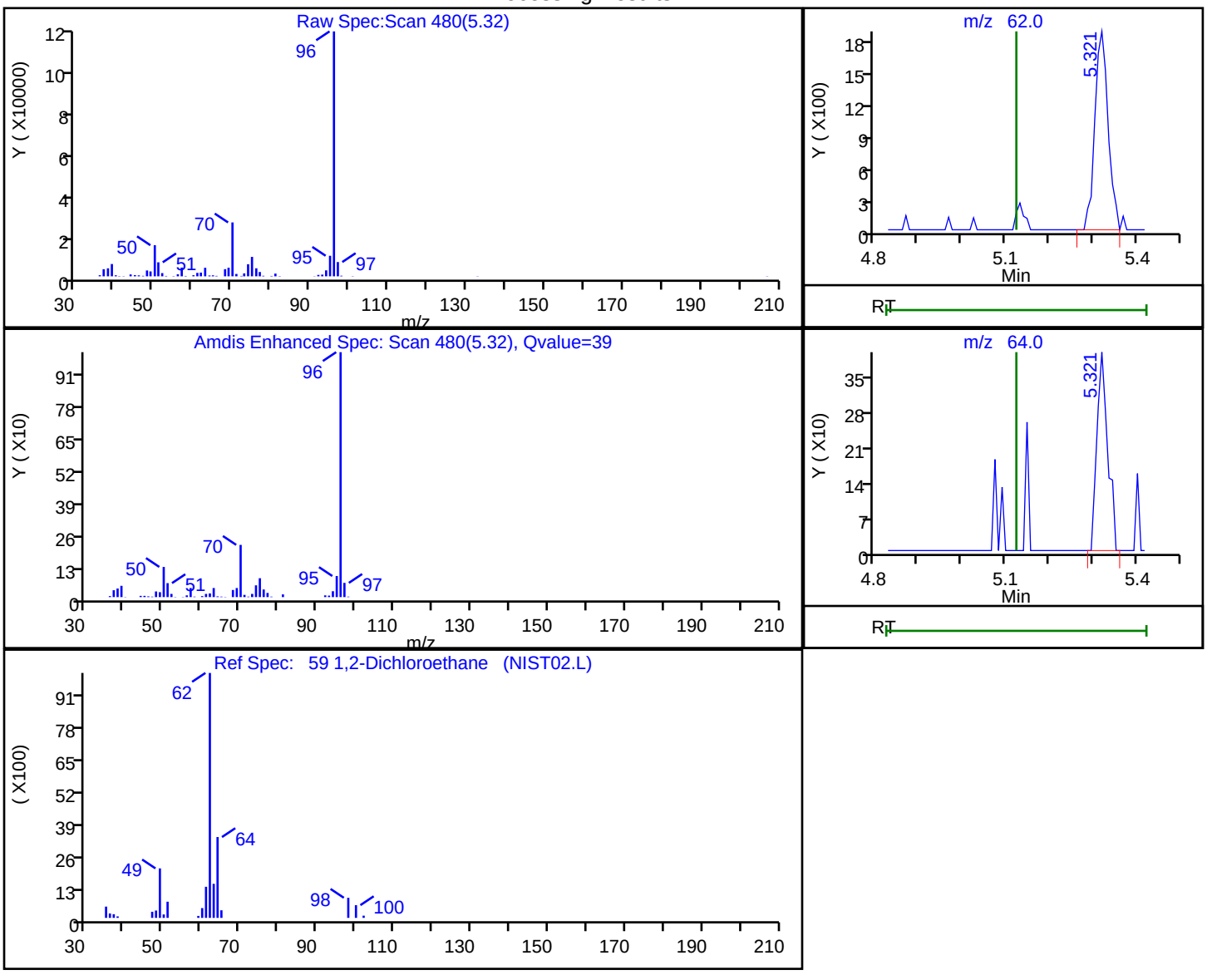
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68540.D				
Injection Date:	01-Aug-2018 11:59:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-F-1	Lab Sample ID:	460-139579-1		
Client ID:	MW-161-4-20180724				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.32	62.00	3853	0.990305
5.32	64.00	680	

Reviewer: moroneyc, 01-Aug-2018 12:25:06

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-1161-4-20180724 | Lab Sample ID: 480-139579-2

Matrix: Water | Lab File ID: F68513.D

Analysis Method: 8260C | Date Collected: 07/24/2018 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.48	J	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	1.5		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-1161-4-20180724 | Lab Sample ID: 480-139579-2

Matrix: Water | Lab File ID: F68513.D

Analysis Method: 8260C | Date Collected: 07/24/2018 10:15

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	3.5		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	52		1.0	0.31
75-69-4	Trichlorofluoromethane	0.71	J	1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	94		77-124
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D
Lims ID: 480-139579-G-2
Client ID: MW-1161-4-20180724
Sample Type: Client
Inject. Date: 01-Aug-2018 01:30:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-G-2
Misc. Info.: 460-0076414-013
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 15:05:58 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 14:48:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Trichlorofluoromethane	101	2.355	2.355	0.000	93	3574	0.7125	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	109988	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	128216	250.0	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	97	5437	1.52	
50 1,1,1-Trichloroethane	97	4.697	4.688	0.009	36	2172	0.4761	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	61731	49.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	72832	54.9	
* 61 Fluorobenzene	96	5.313	5.313	0.000	98	249419	50.0	
63 Trichloroethene	95	5.666	5.666	0.000	97	158532	51.6	
* 67 1,4-Dioxane-d8	96	6.036	6.020	0.016	0	7416	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	218223	50.5	
79 Toluene	91	7.047	7.047	0.000	94	3461	0.3132	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	9403	3.48	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	88	156639	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	86	59488	47.0	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.900	0.009	97	85548	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

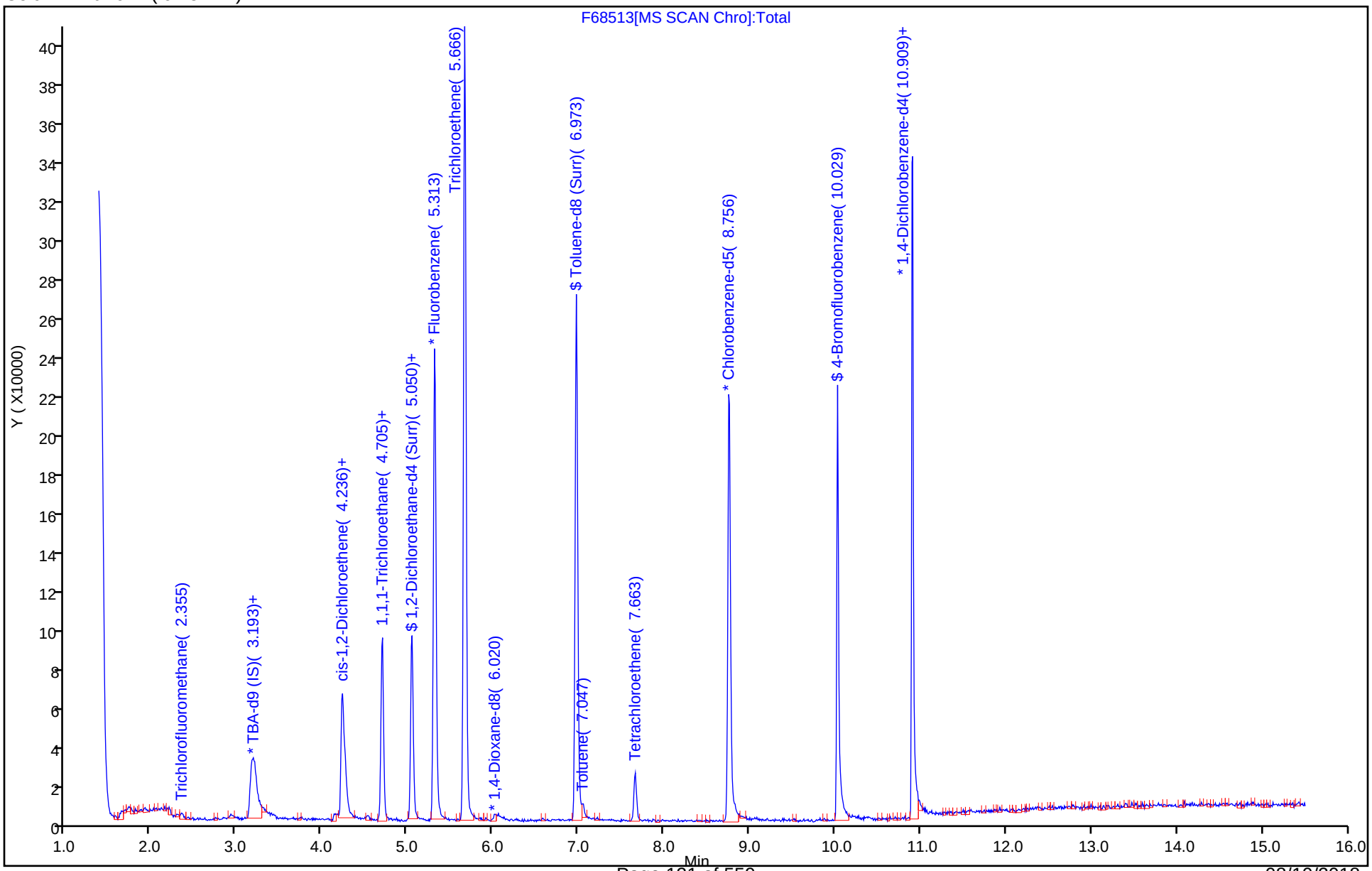
Report Date: 01-Aug-2018 15:06:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D

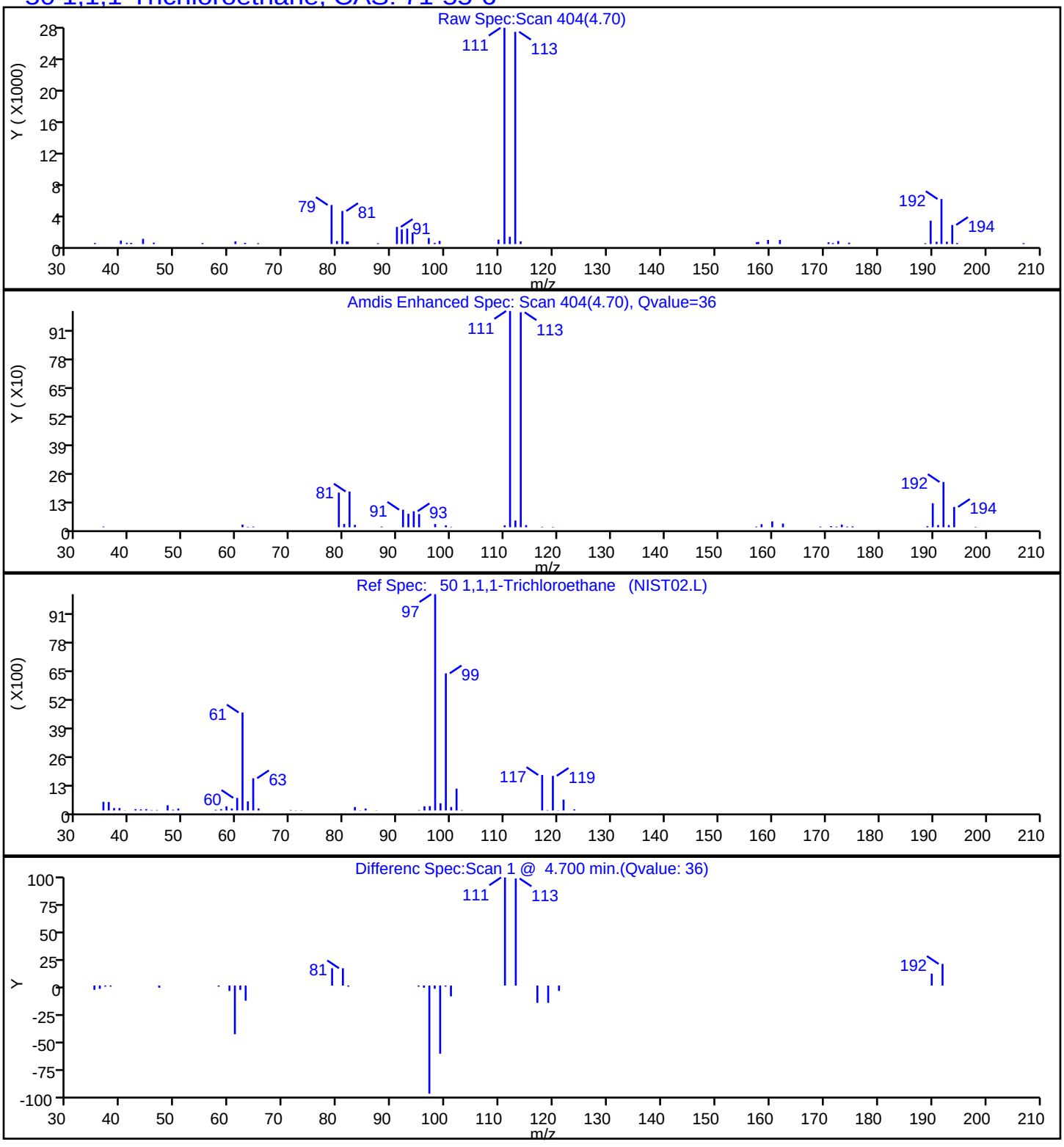
Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2	Worklist Smp#:	13
Client ID:	MW-1161-4-20180724				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



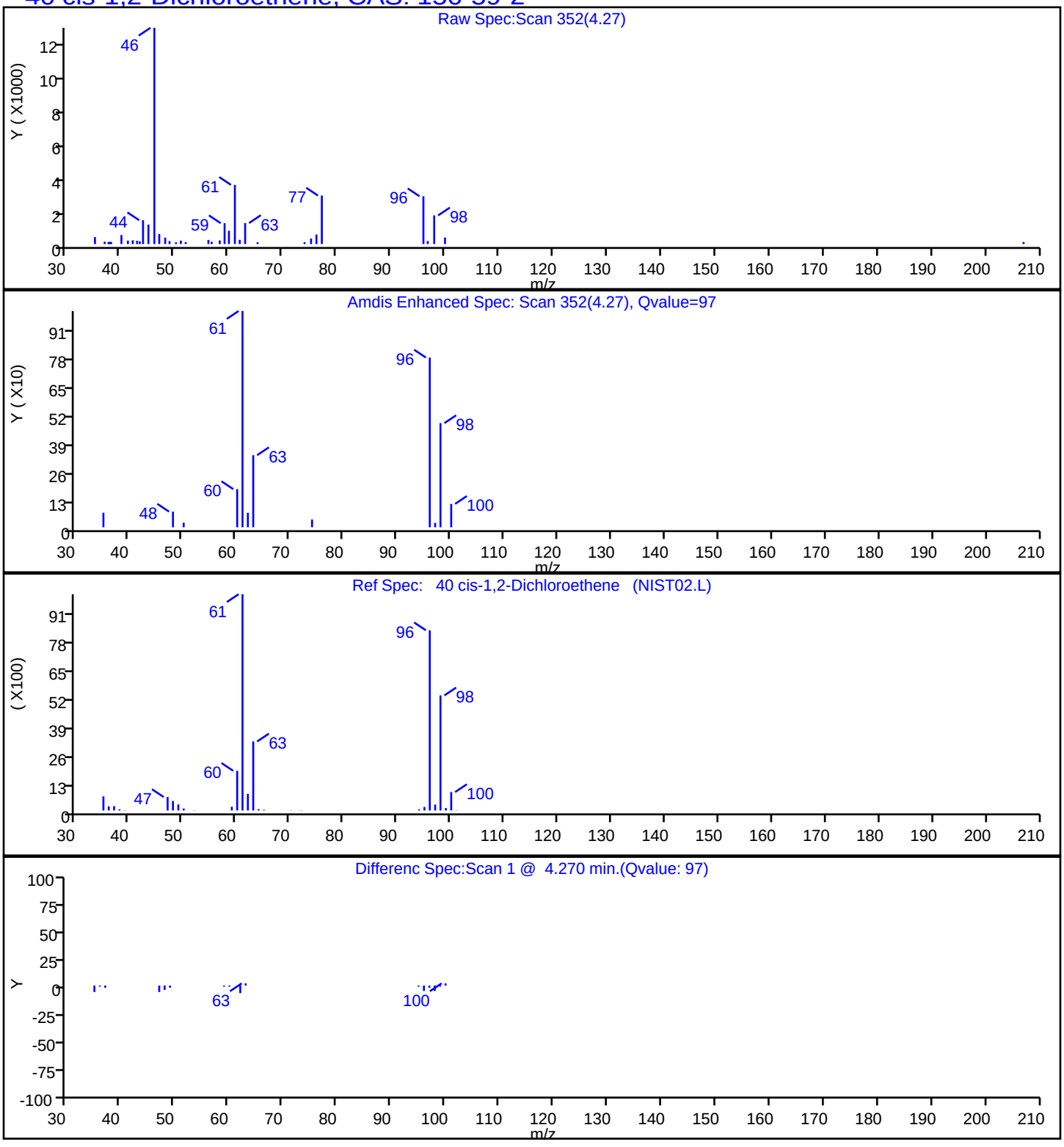
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D
Injection Date: 01-Aug-2018 01:30:30 Instrument ID: CVOAMS6
Lims ID: 480-139579-G-2 Lab Sample ID: 460-139579-2
Client ID: MW-1161-4-20180724
Operator ID: ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

50 1,1,1-Trichloroethane, CAS: 71-55-6



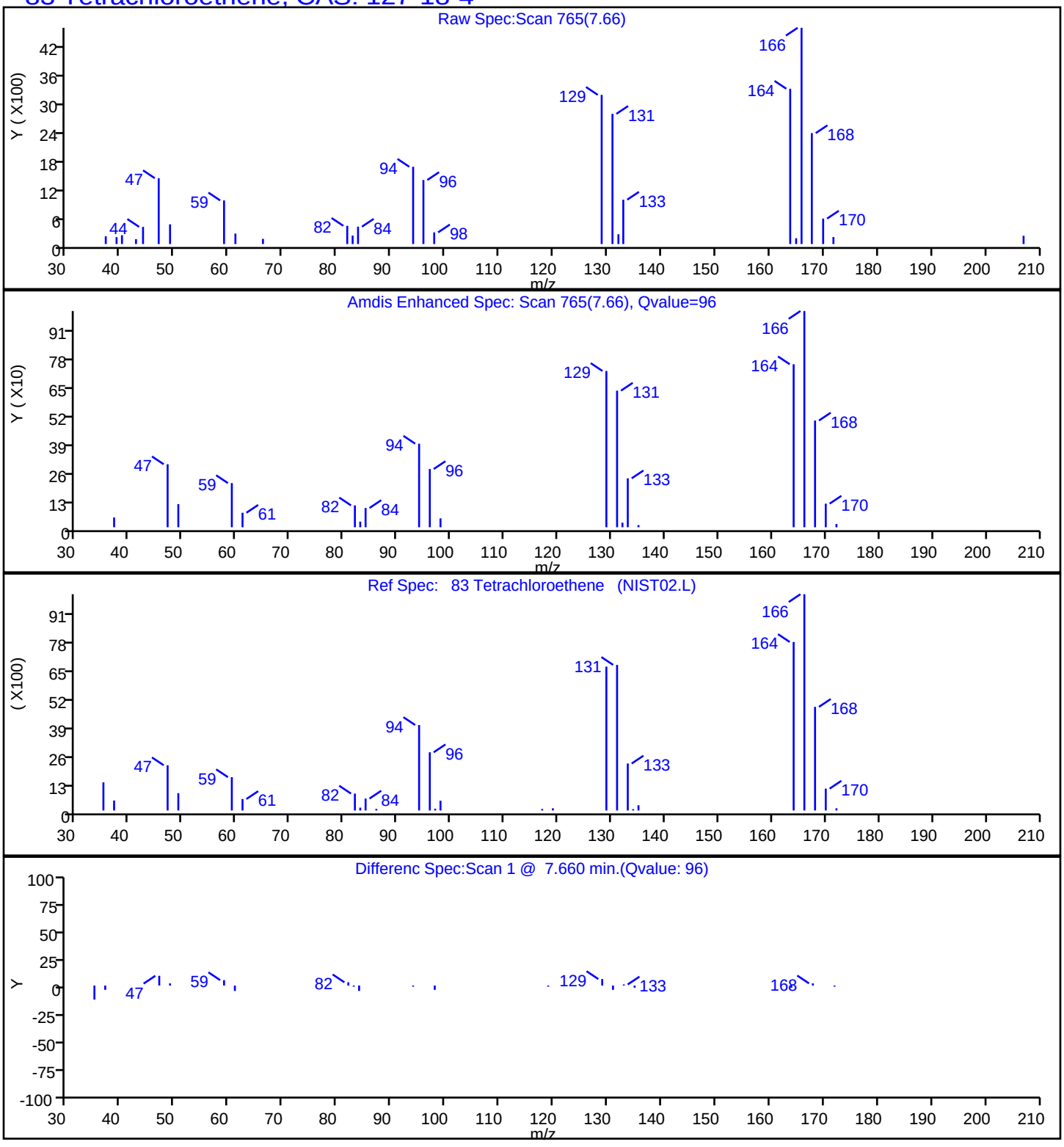
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D		
Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2
Client ID:	MW-1161-4-20180724		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

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



Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D		
Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2
Client ID:	MW-1161-4-20180724		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

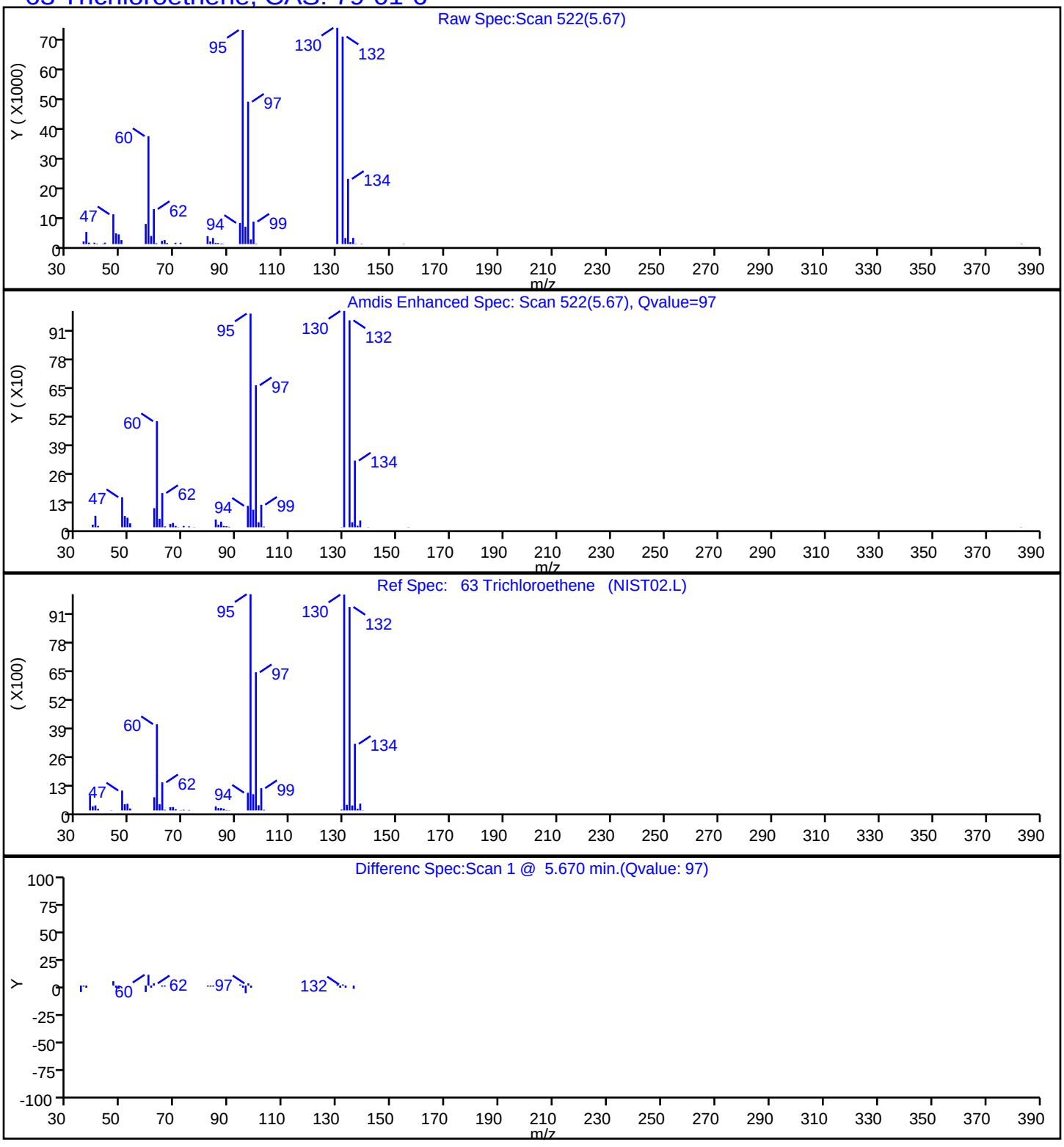
83 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D

Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2
Client ID:	MW-1161-4-20180724		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

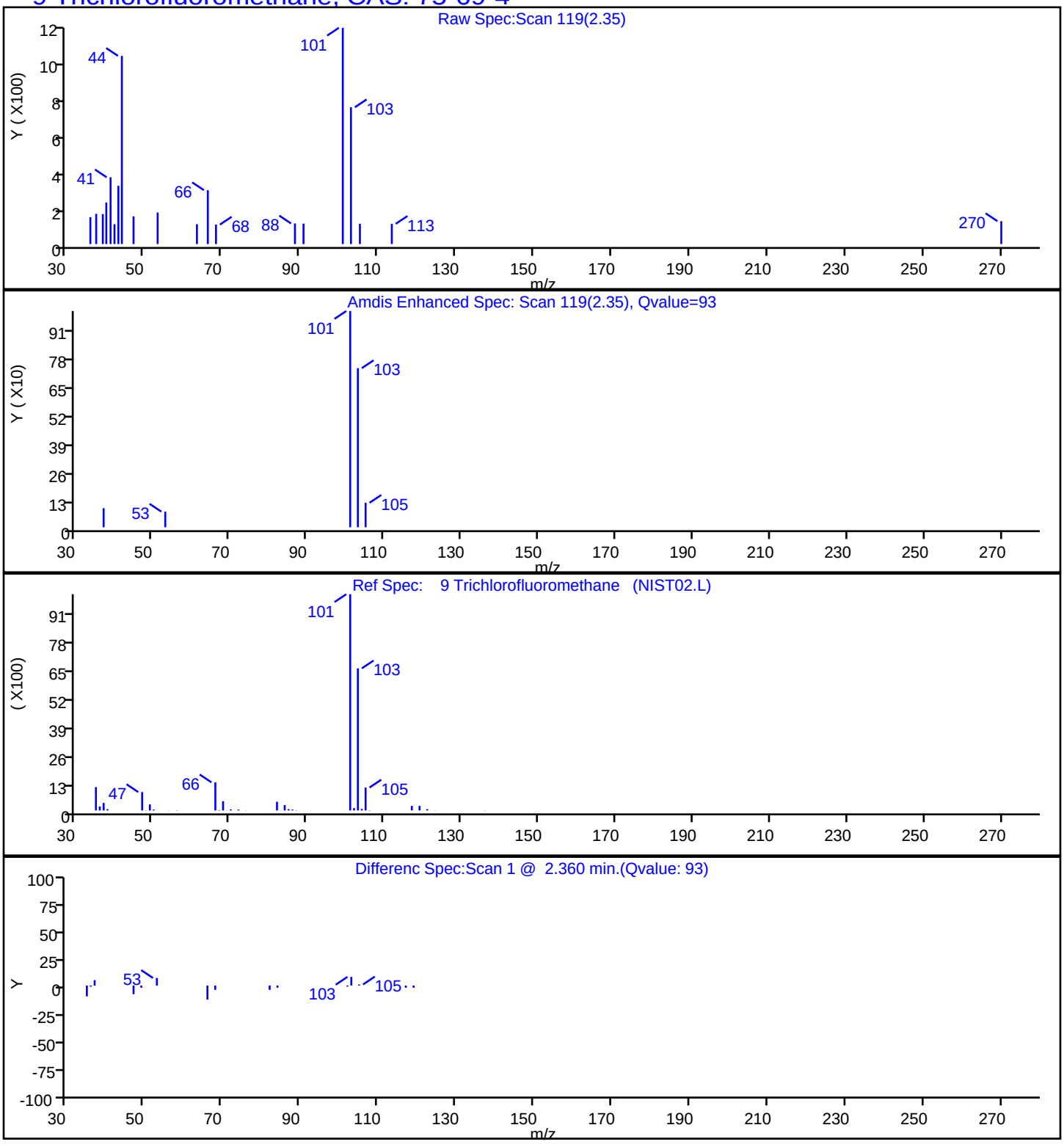
63 Trichloroethene, CAS: 79-01-6



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D

Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2
Client ID:	MW-1161-4-20180724		
Operator ID:		ALS Bottle#:	12 Worklist Smp#: 13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4



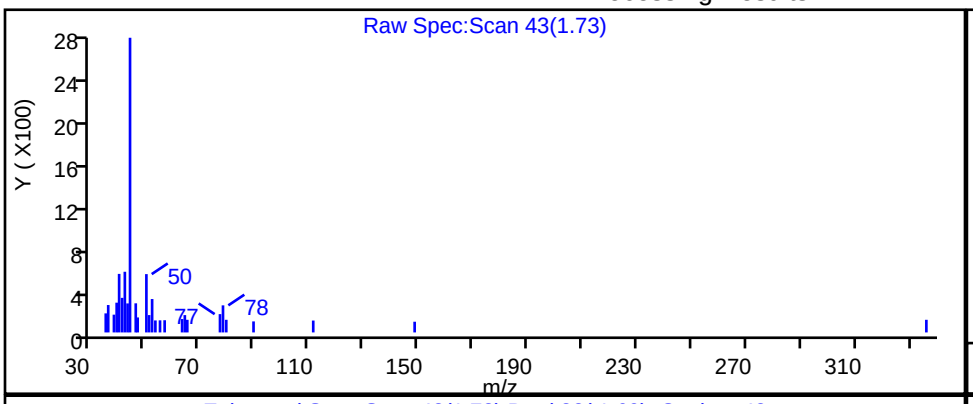
User Disabled Compound Report

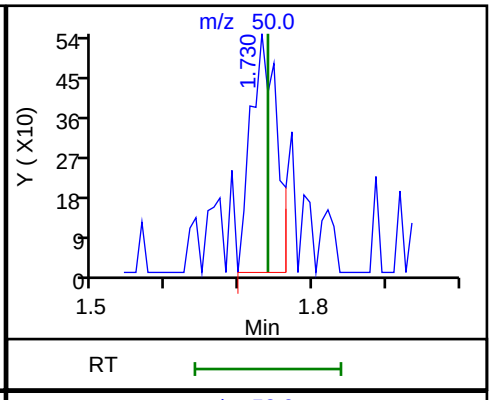
TestAmerica Edison

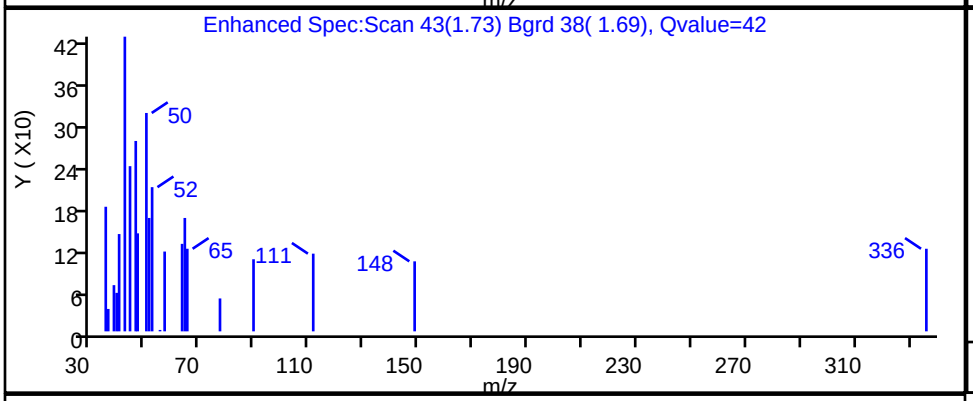
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68513.D				
Injection Date:	01-Aug-2018 01:30:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-G-2	Lab Sample ID:	460-139579-2		
Client ID:	MW-1161-4-20180724				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

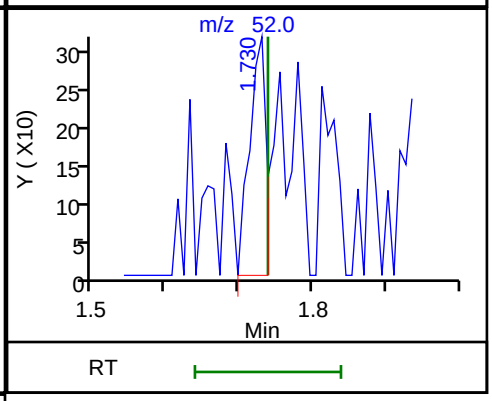
3 Chloromethane, CAS: 74-87-3

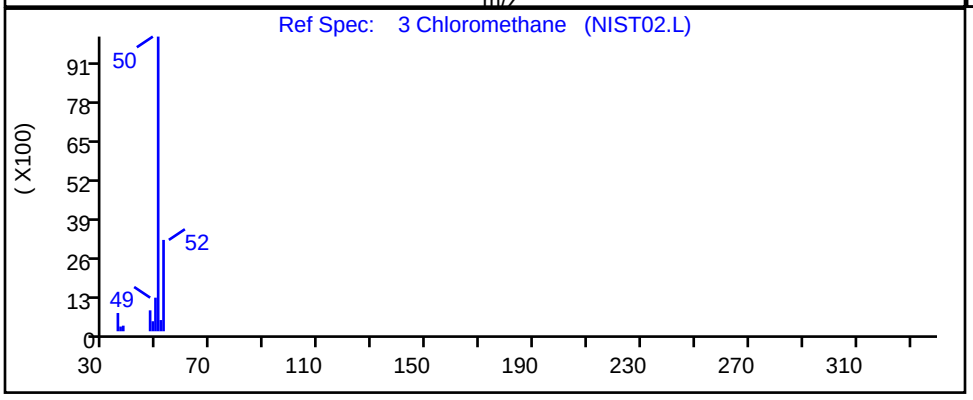
Processing Results











RT	Mass	Response	Amount
1.73	50.00	1348	0.248693
1.73	52.00	491	

Reviewer: xuyvo, 01-Aug-2018 15:05:26

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: TB-20180724 | Lab Sample ID: 480-139579-3

Matrix: Water | Lab File ID: F68509.D

Analysis Method: 8260C | Date Collected: 07/24/2018 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2018 23:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	13		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: TB-20180724 | Lab Sample ID: 480-139579-3

Matrix: Water | Lab File ID: F68509.D

Analysis Method: 8260C | Date Collected: 07/24/2018 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2018 23:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	0.48	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	89		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68509.D
Lims ID: 480-139579-B-3
Client ID: TB-20180724
Sample Type: Client
Inject. Date: 31-Jul-2018 23:03:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-B-3
Misc. Info.: 460-0076414-009
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:53:55 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 01-Aug-2018 08:49:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.848	2.840	0.008	84	9924	13.2	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	97072	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	131895	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	63785	49.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	75042	54.9	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	256884	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.020	0.016	0	7076	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	222917	48.7	
79 Toluene	91	7.055	7.047	0.008	62	5599	0.4778	
* 89 Chlorobenzene-d5	117	8.764	8.756	0.008	89	166106	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	86	59335	44.3	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.900	0.009	97	89254	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

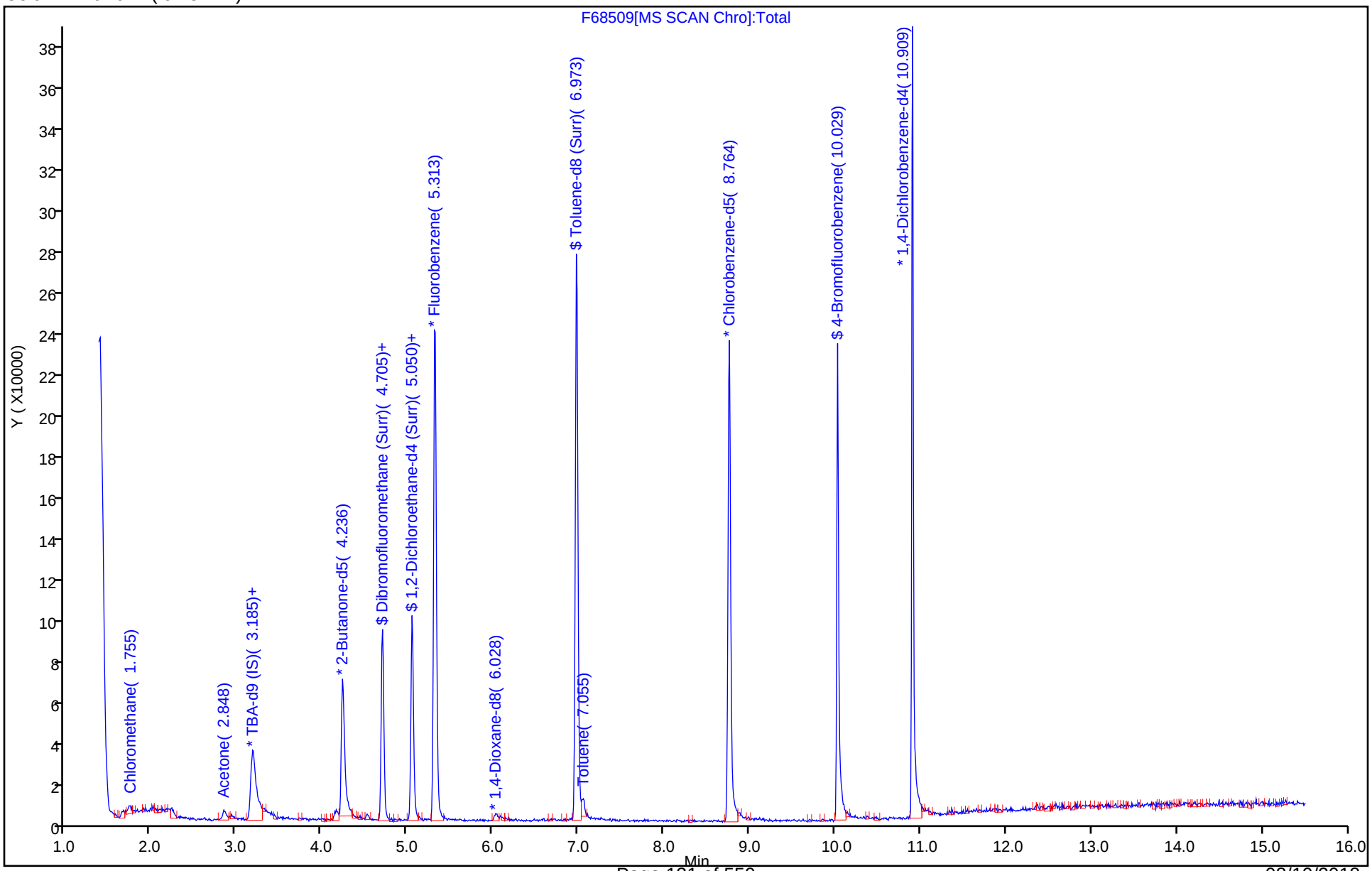
Report Date: 01-Aug-2018 08:54:45 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68509.D

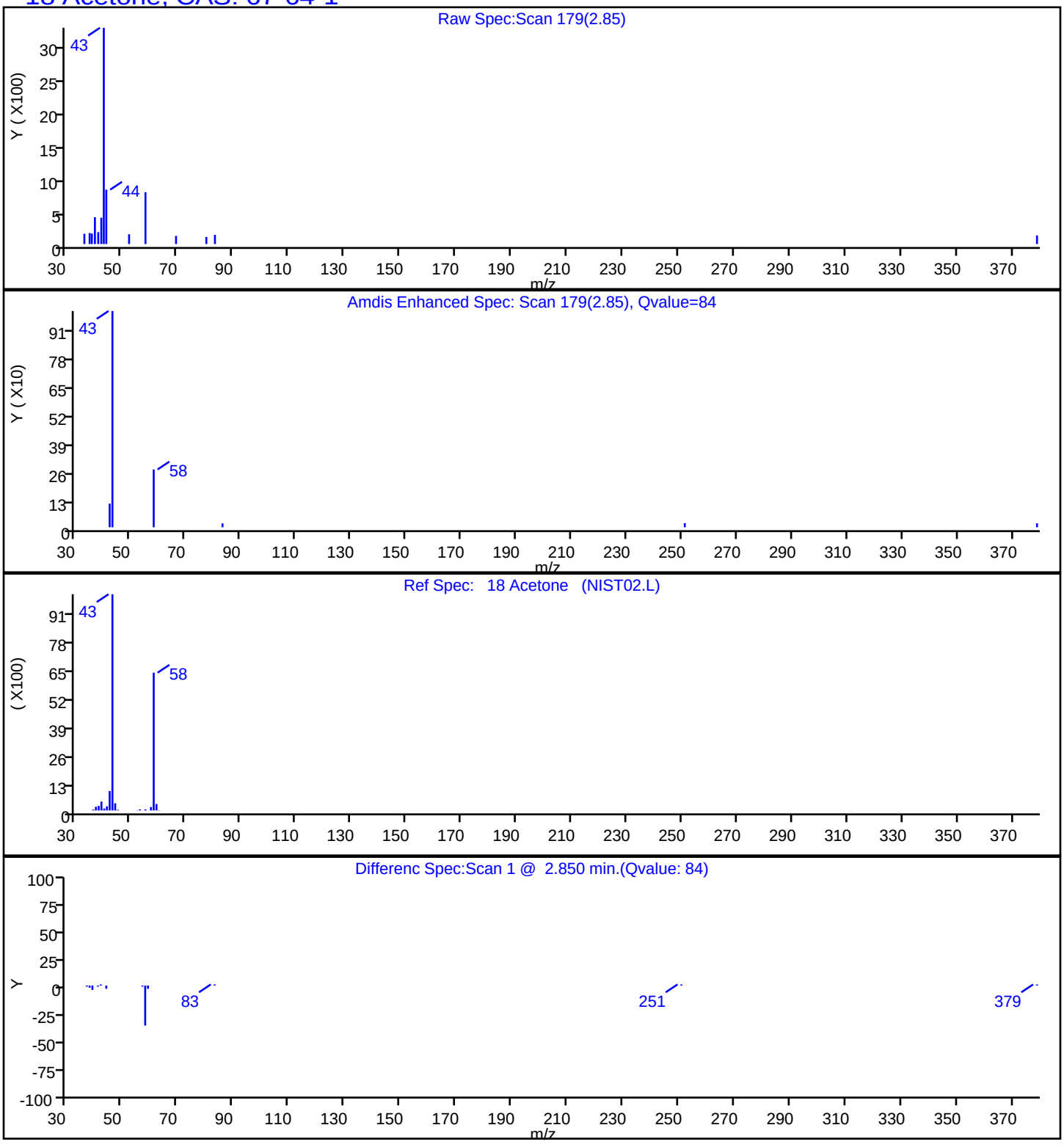
Injection Date:	31-Jul-2018 23:03:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-B-3	Lab Sample ID:	460-139579-3	Worklist Smp#:	9
Client ID:	TB-20180724				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68509.D
Injection Date: 31-Jul-2018 23:03:30 Instrument ID: CVOAMS6
Lims ID: 480-139579-B-3 Lab Sample ID: 460-139579-3
Client ID: TB-20180724
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

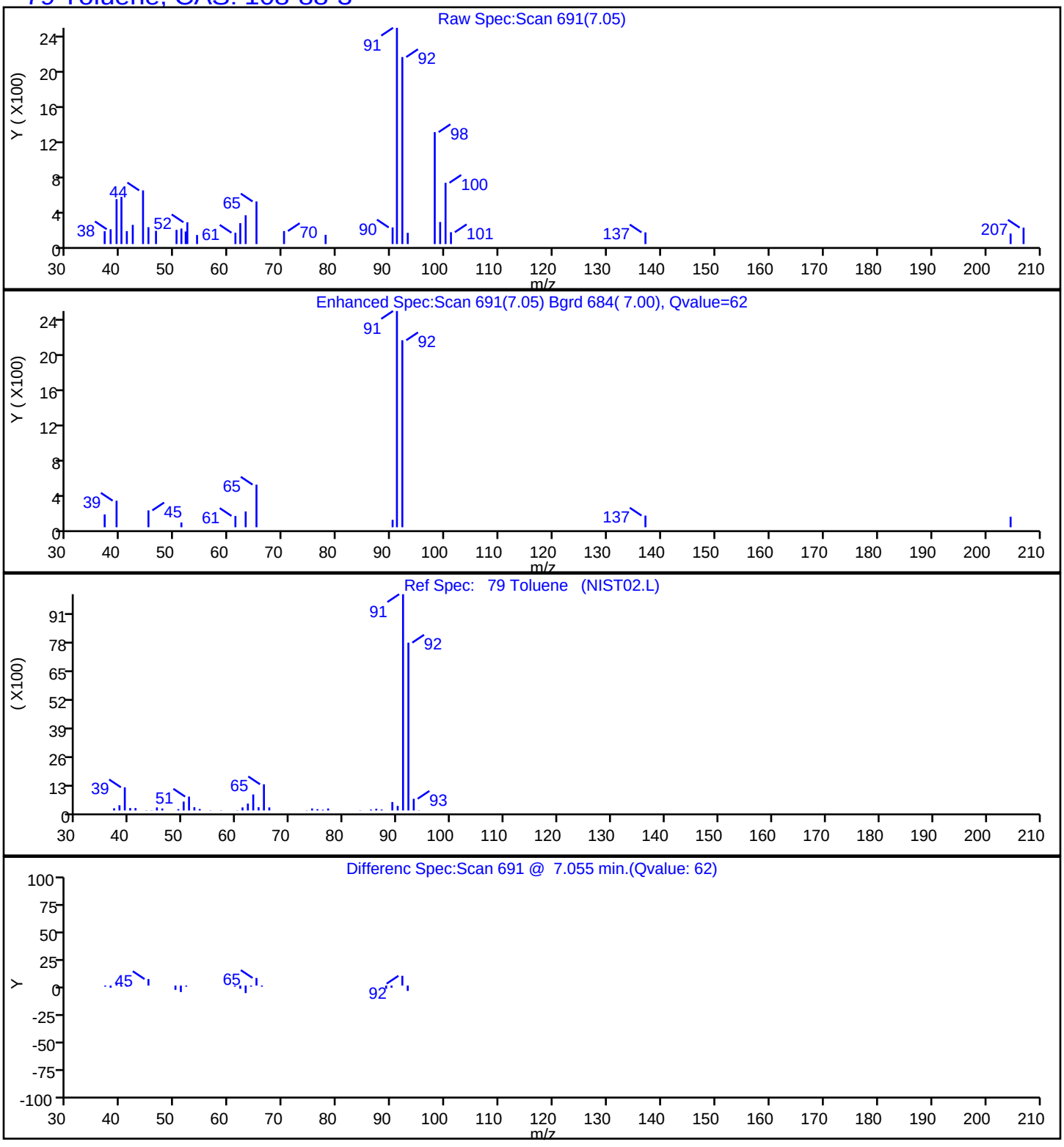
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68509.D				
Injection Date:	31-Jul-2018 23:03:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-B-3	Lab Sample ID:	460-139579-3		
Client ID:	TB-20180724				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

79 Toluene, CAS: 108-88-3



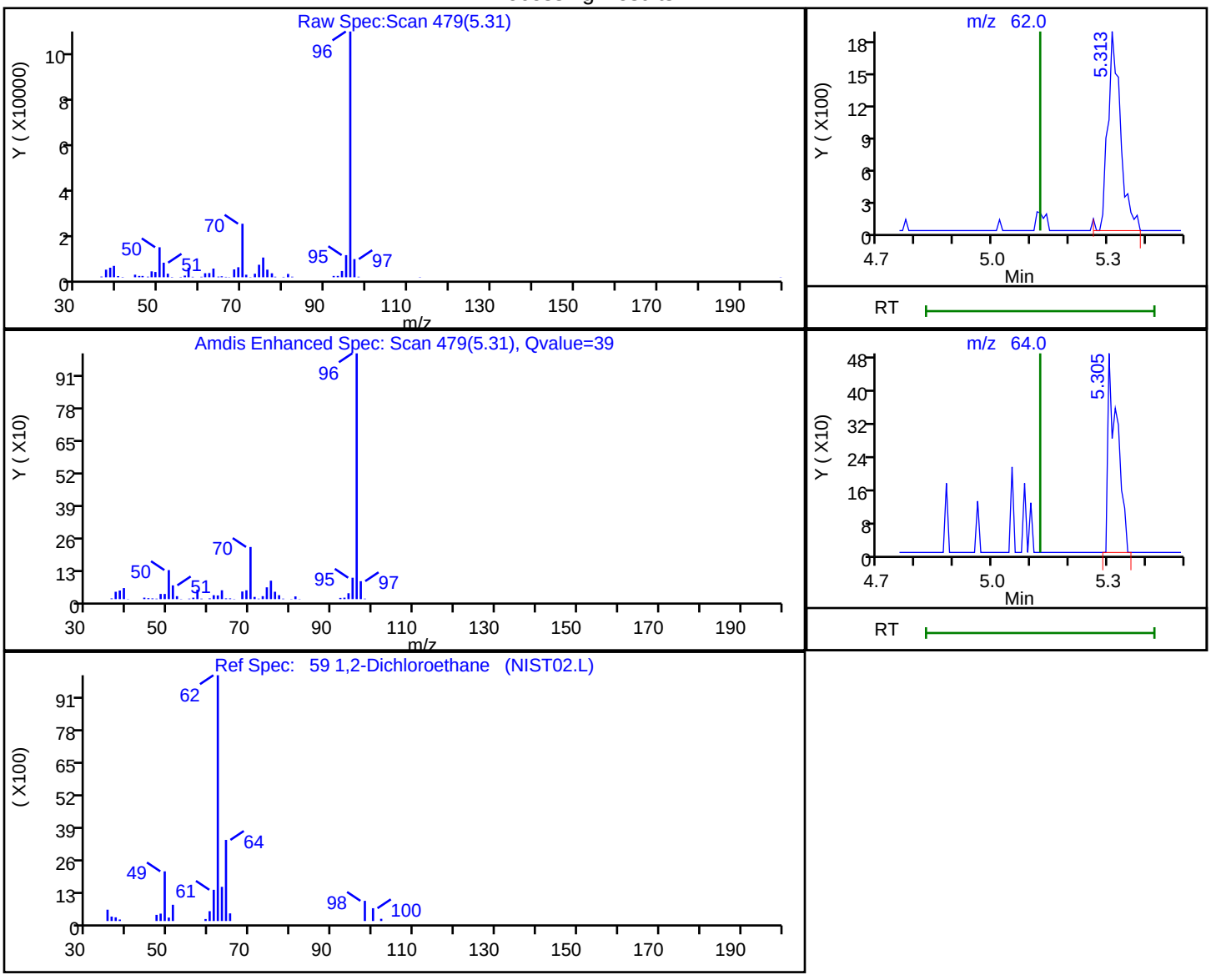
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68509.D				
Injection Date:	31-Jul-2018 23:03:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-B-3	Lab Sample ID:	460-139579-3		
Client ID:	TB-20180724				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.31	62.00	4238	1.115523
5.30	64.00	837	

Reviewer: parekhv, 31-Jul-2018 23:24:17

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: FB-20180724 | Lab Sample ID: 480-139579-4

Matrix: Water | Lab File ID: F68510.D

Analysis Method: 8260C | Date Collected: 07/24/2018 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 00:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: FB-20180724 | Lab Sample ID: 480-139579-4

Matrix: Water | Lab File ID: F68510.D

Analysis Method: 8260C | Date Collected: 07/24/2018 11:45

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 00:20

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		74-132
460-00-4	4-Bromofluorobenzene	92		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68510.D
Lims ID: 480-139579-G-4
Client ID: FB-20180724
Sample Type: Client
Inject. Date: 01-Aug-2018 00:20:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-G-4
Misc. Info.: 460-0076414-010
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:53:55 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: parekhv Date: 01-Aug-2018 00:44:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	109698	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	170808	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	80505	48.5	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	95925	54.1	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	333328	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.020	0.016	0	6812	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	98	286116	49.4	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	89	210039	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	78295	46.2	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.900	0.008	97	103541	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

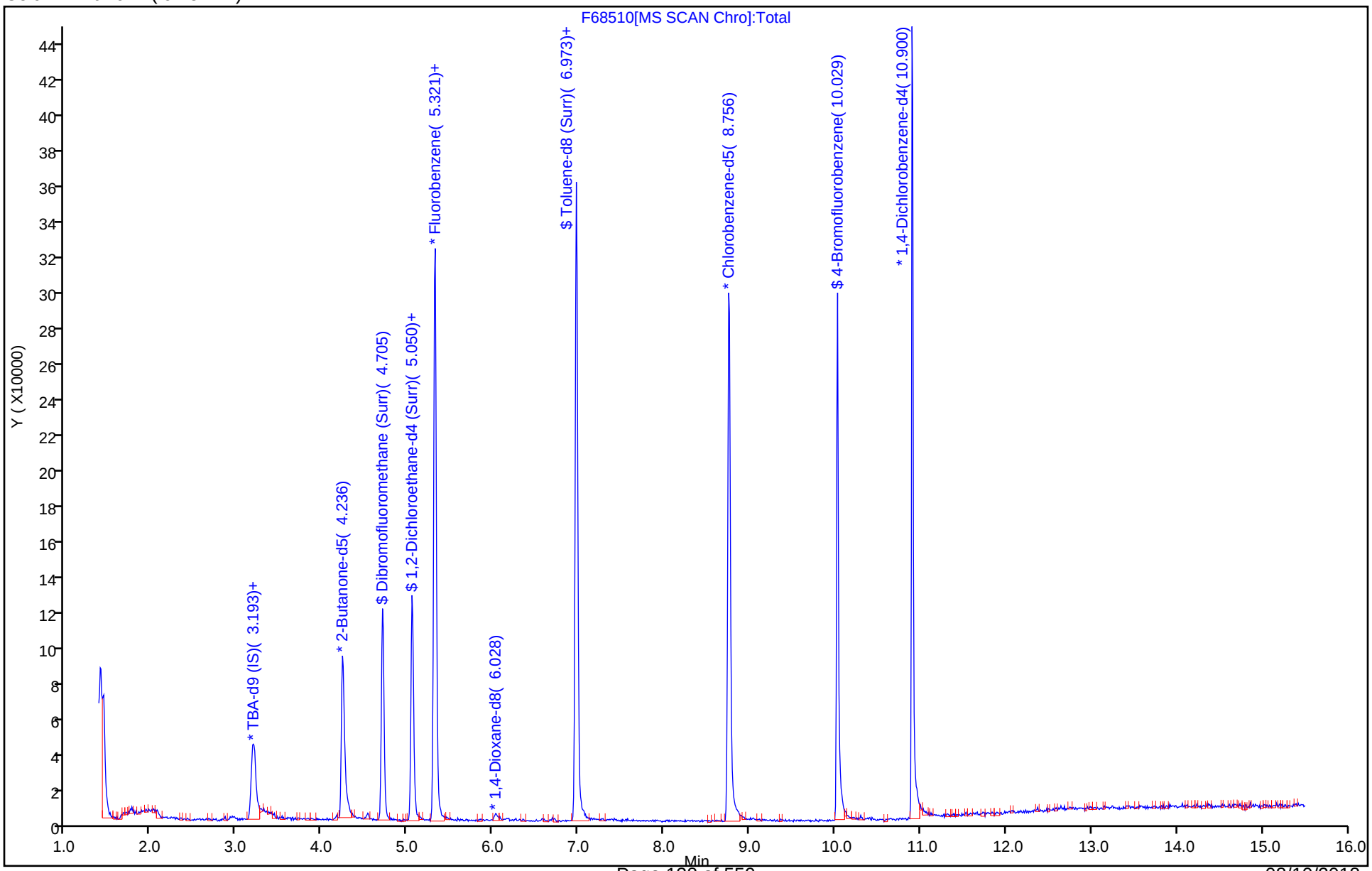
Report Date: 01-Aug-2018 08:54:46 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68510.D

Injection Date:	01-Aug-2018 00:20:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-G-4	Lab Sample ID:	460-139579-4	Worklist Smp#:	10
Client ID:	FB-20180724				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



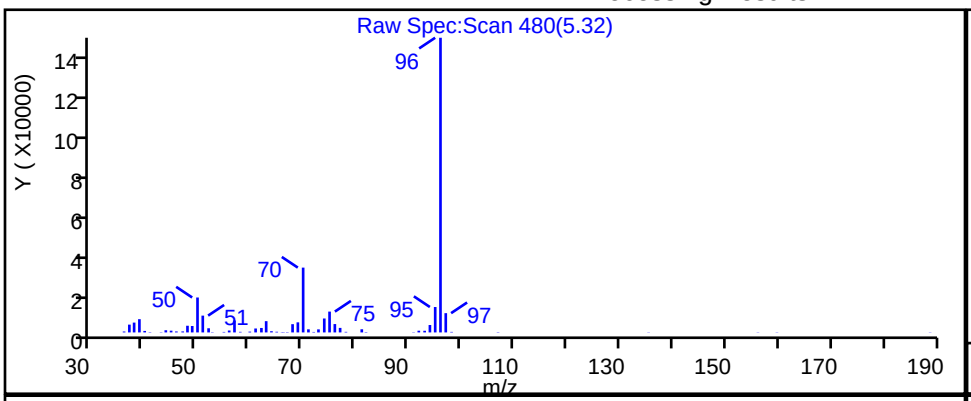
User Disabled Compound Report

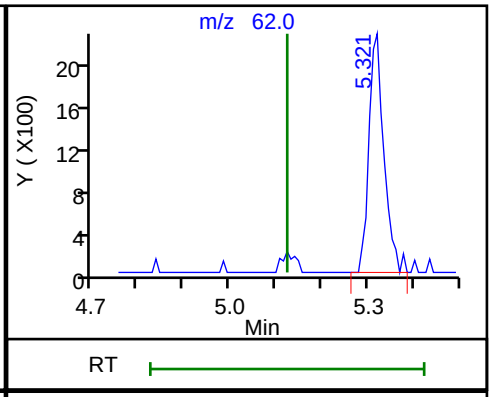
TestAmerica Edison

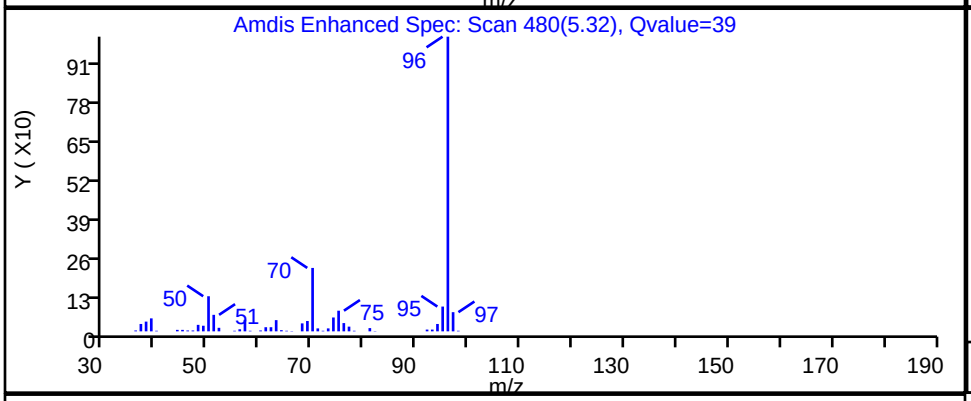
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68510.D		
Injection Date:	01-Aug-2018 00:20:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-4	Lab Sample ID:	460-139579-4
Client ID:	FB-20180724		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

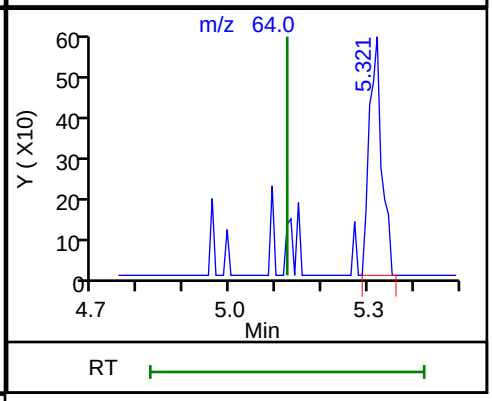
59 1,2-Dichloroethane, CAS: 107-06-2

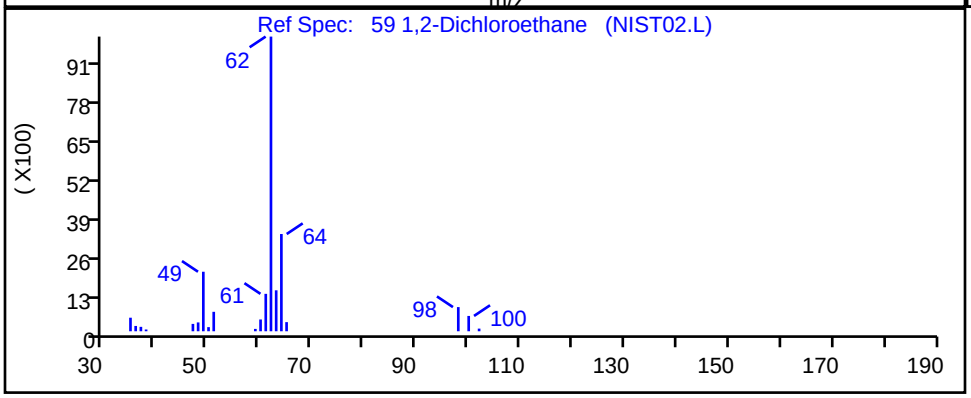
Processing Results











RT	Mass	Response	Amount
5.32	62.00	5059	1.026237
5.32	64.00	1128	

Reviewer: parekhv, 01-Aug-2018 00:43:47

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: FB-20180725 | Lab Sample ID: 480-139579-9

Matrix: Water | Lab File ID: F68511.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 00:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: FB-20180725 | Lab Sample ID: 480-139579-9

Matrix: Water | Lab File ID: F68511.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 00:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	92		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	97		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68511.D
Lims ID: 480-139579-C-9
Client ID: FB-20180725
Sample Type: Client
Inject. Date: 01-Aug-2018 00:44:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-9
Misc. Info.: 460-0076414-011
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:53:55 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: parekhv Date: 01-Aug-2018 01:07:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	119170	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	126432	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	61595	48.3	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	74921	55.0	
* 61 Fluorobenzene	96	5.313	5.313	0.000	98	255794	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.020	0.016	0	9486	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	217052	49.2	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	89	160187	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	87	59598	46.1	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.900	0.008	97	90199	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

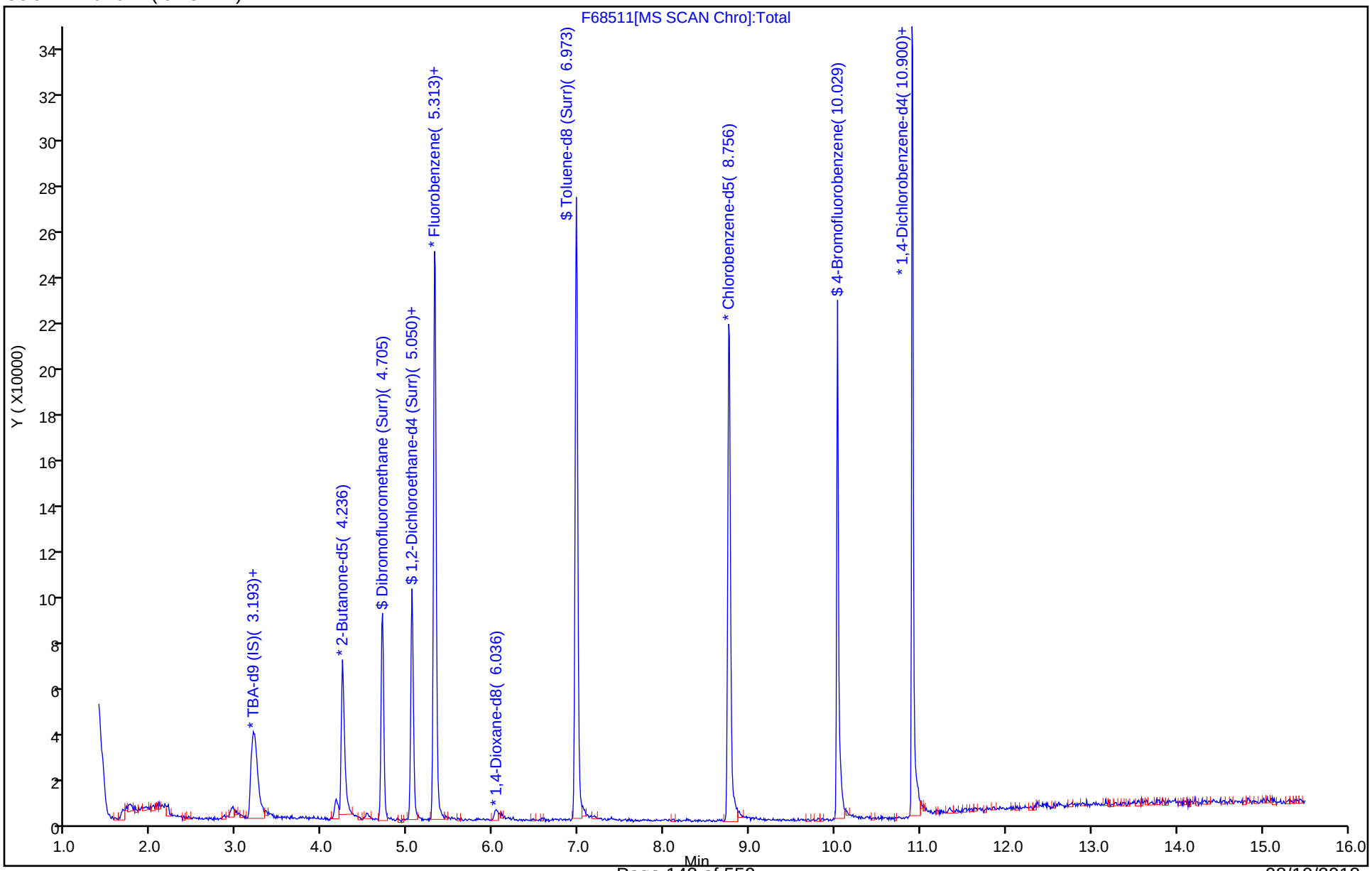
Report Date: 01-Aug-2018 08:54:48 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68511.D

Injection Date:	01-Aug-2018 00:44:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-C-9	Lab Sample ID:	460-139579-9	Worklist Smp#:	11
Client ID:	FB-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



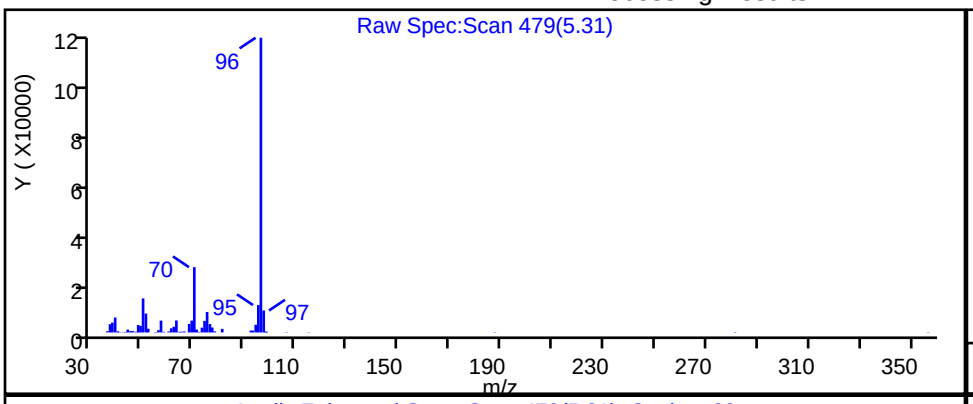
User Disabled Compound Report

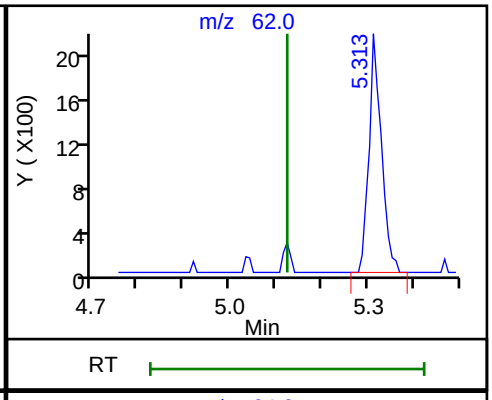
TestAmerica Edison

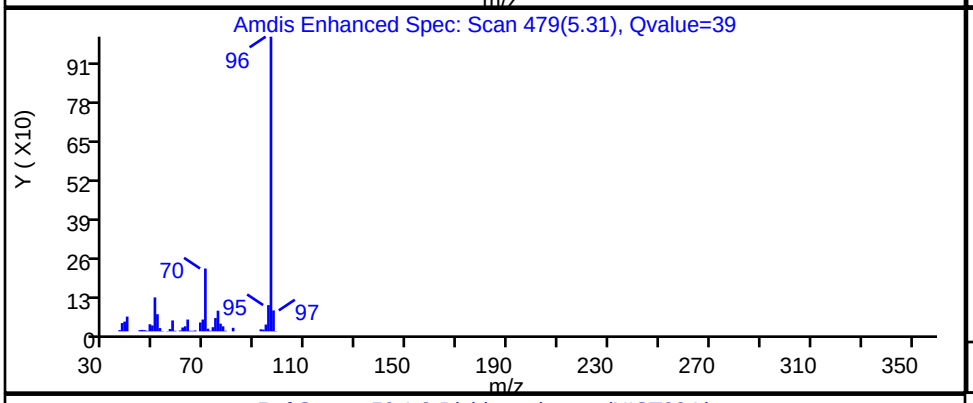
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68511.D		
Injection Date:	01-Aug-2018 00:44:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-C-9	Lab Sample ID:	460-139579-9
Client ID:	FB-20180725		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

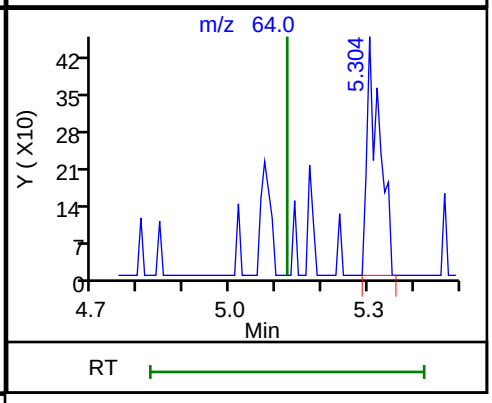
59 1,2-Dichloroethane, CAS: 107-06-2

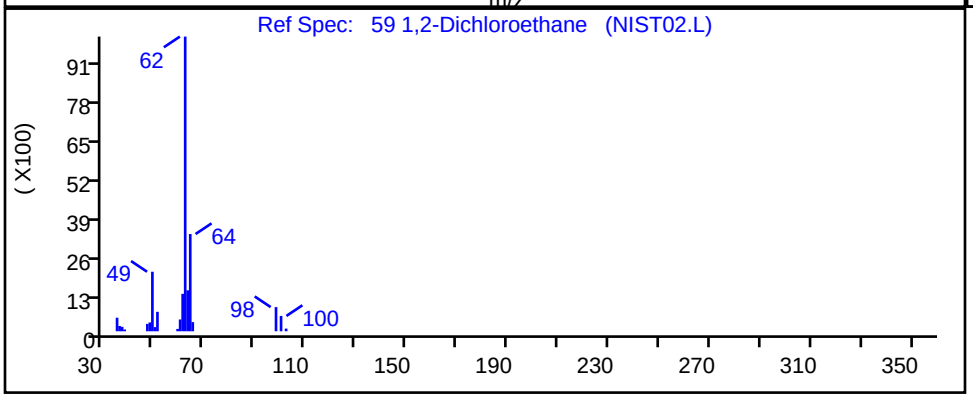
Processing Results











RT	Mass	Response	Amount
5.31	62.00	4119	1.088820
5.30	64.00	885	

Reviewer: parekhv, 01-Aug-2018 01:03:45

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

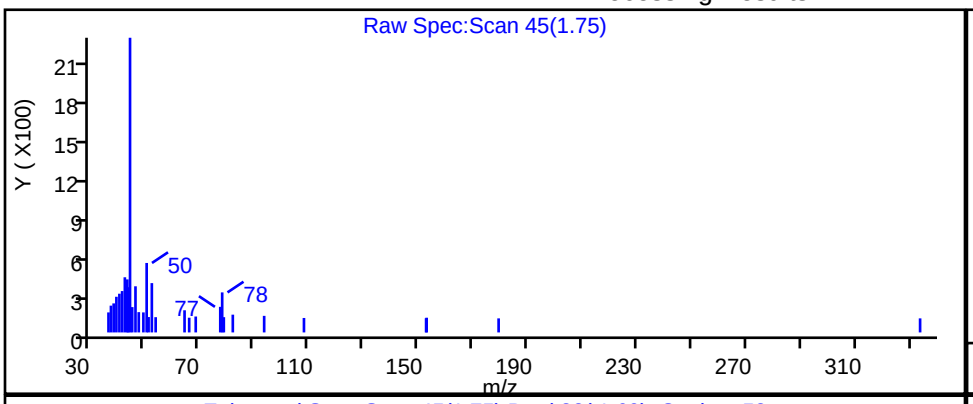
User Disabled Compound Report

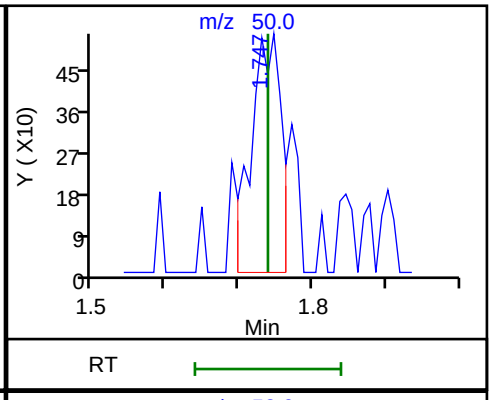
TestAmerica Edison

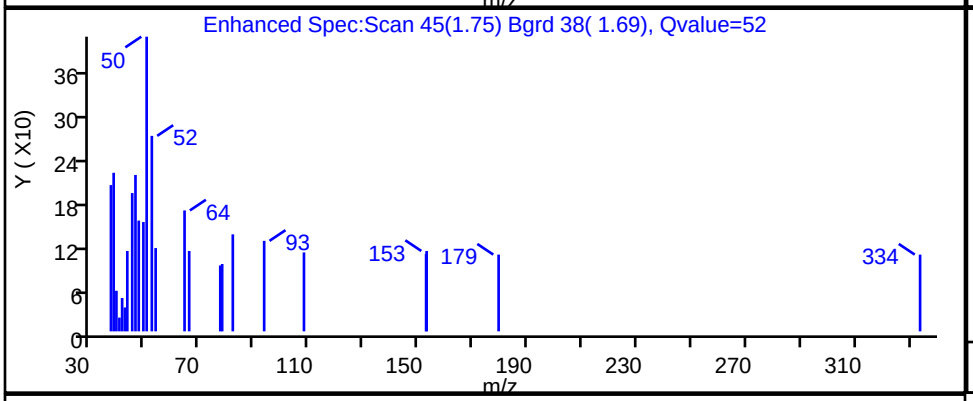
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68511.D		
Injection Date:	01-Aug-2018 00:44:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-C-9	Lab Sample ID:	460-139579-9
Client ID:	FB-20180725		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

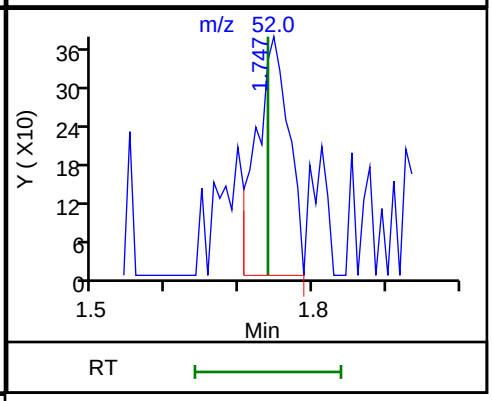
3 Chloromethane, CAS: 74-87-3

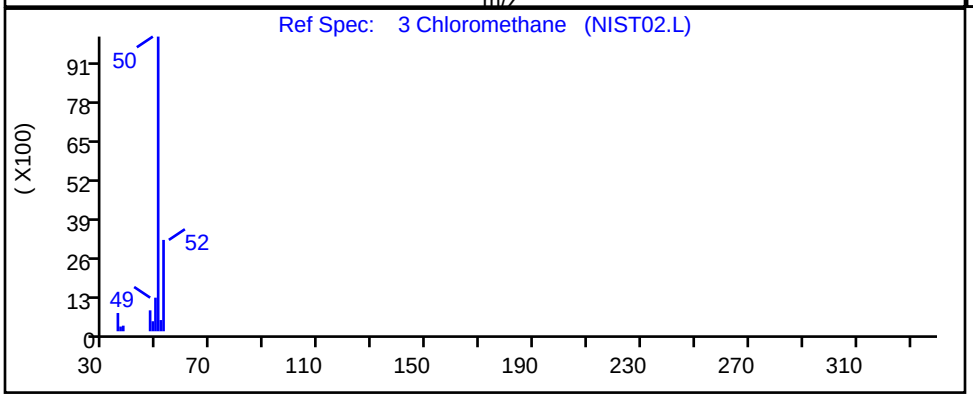
Processing Results











RT	Mass	Response	Amount
1.75	50.00	1517	0.272897
1.75	52.00	1156	

Reviewer: parekhv, 01-Aug-2018 01:03:42

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 | Lab Sample ID: 480-139579-10

Matrix: Water | Lab File ID: F68514.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.59	J	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND	F1	1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND	F1	1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	2.0		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	* F1	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 | Lab Sample ID: 480-139579-10

Matrix: Water | Lab File ID: F68514.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	4.0		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	54	F1	1.0	0.31
75-69-4	Trichlorofluoromethane	0.76	J	1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		74-132
460-00-4	4-Bromofluorobenzene	91		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D
Lims ID: 480-139579-G-10
Client ID: MW-161-3-20180725
Sample Type: Client
Inject. Date: 01-Aug-2018 01:53:30 ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-G-10
Misc. Info.: 460-0076414-014
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 15:06:27 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 14:49:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Trichlorofluoromethane	101	2.355	2.355	0.000	96	3852	0.7624	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	107974	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	129996	250.0	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	94	7095	1.96	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	36	2729	0.5939	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	62139	49.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	74716	55.9	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	251218	50.0	
63 Trichloroethene	95	5.666	5.666	0.000	97	167936	54.2	
* 67 1,4-Dioxane-d8	96	6.044	6.020	0.024	0	7794	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	215507	49.5	
83 Tetrachloroethene	166	7.663	7.663	0.000	93	10900	4.00	
* 89 Chlorobenzene-d5	117	8.764	8.756	0.008	89	158021	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	87	58043	45.5	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.900	0.009	98	83401	50.0	
S 130 1,2-Dichloroethene, Total	100				0		1.96	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

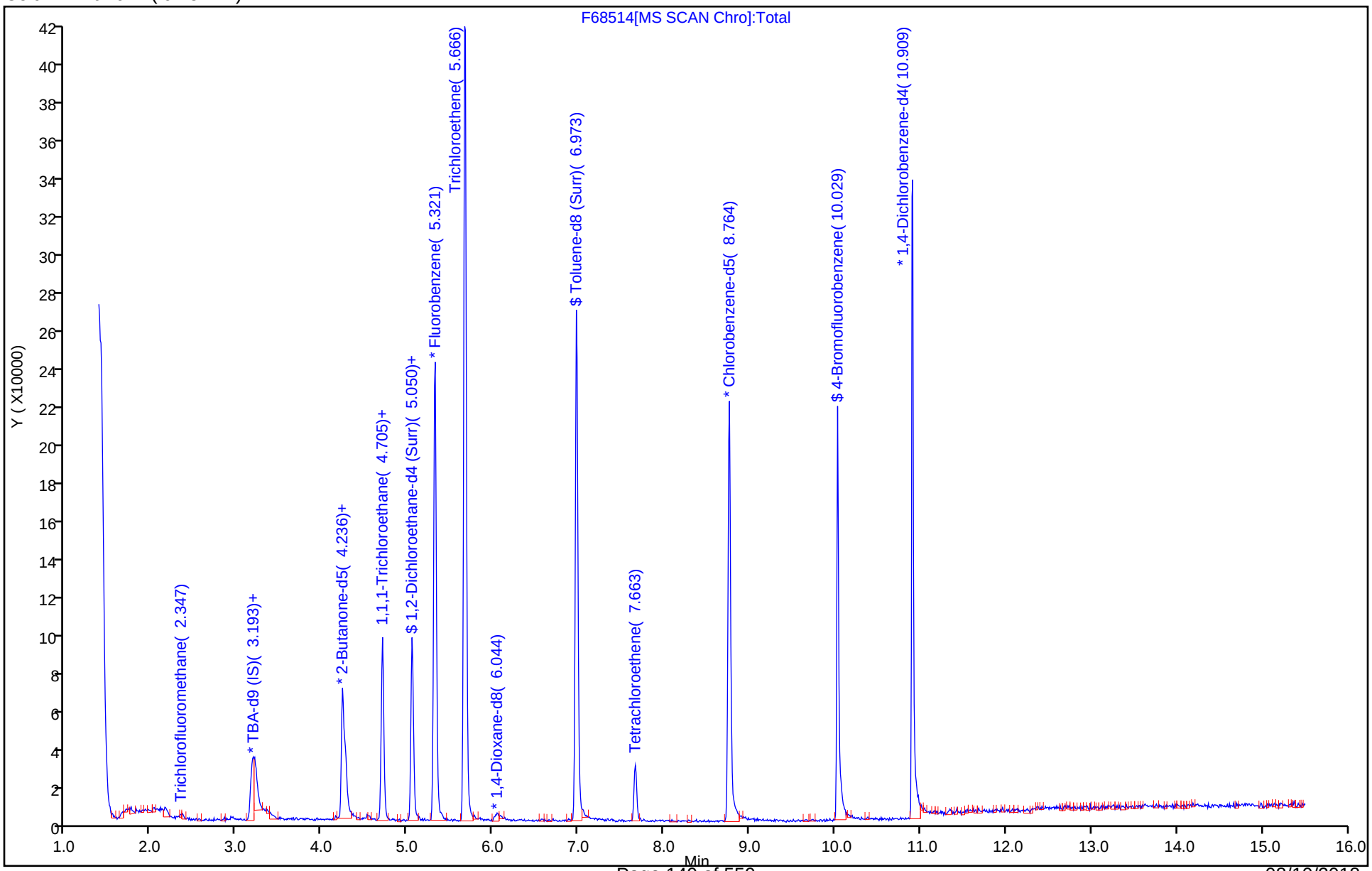
Report Date: 01-Aug-2018 15:07:06 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D

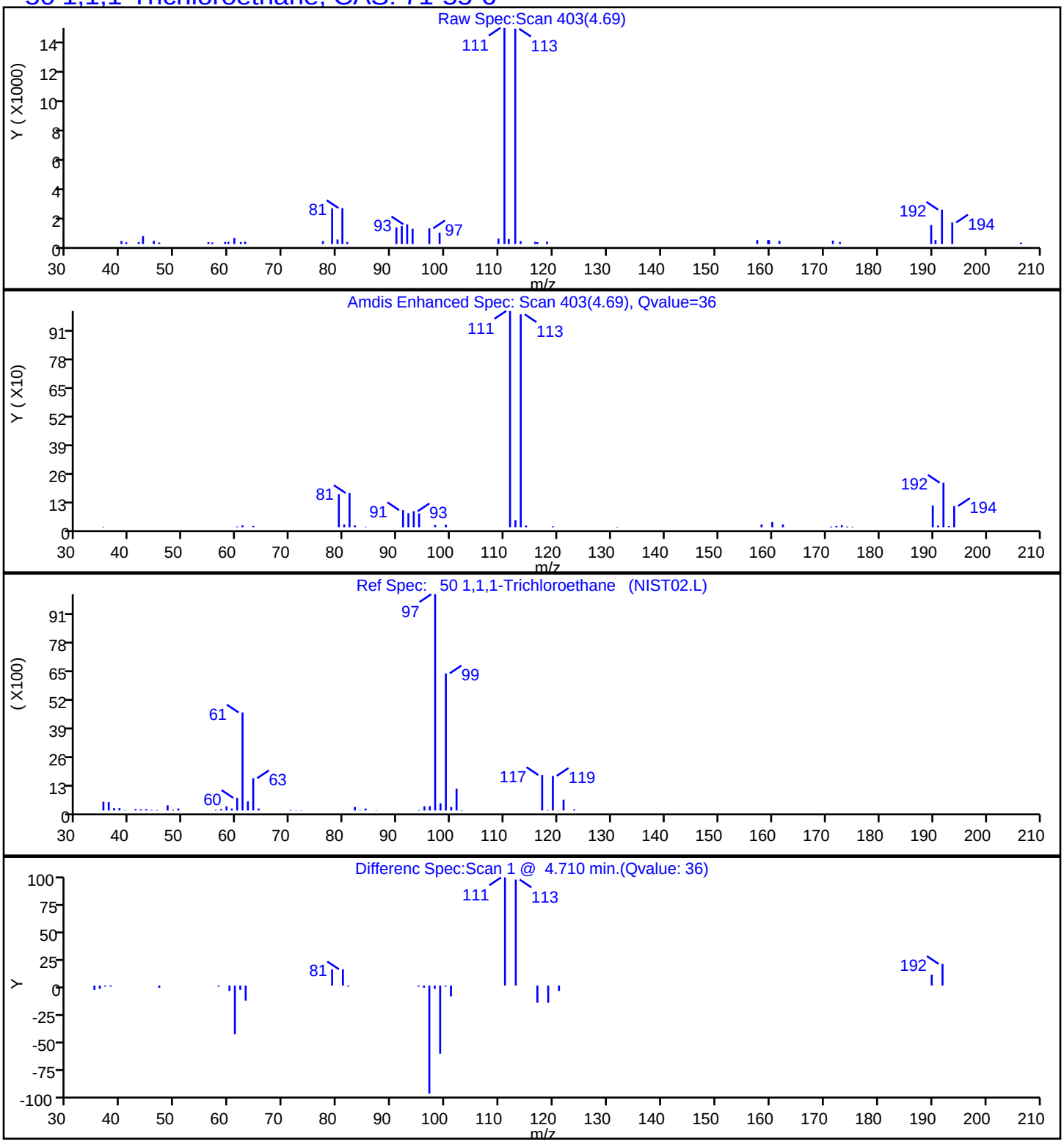
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10	Worklist Smp#:	14
Client ID:	MW-161-3-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



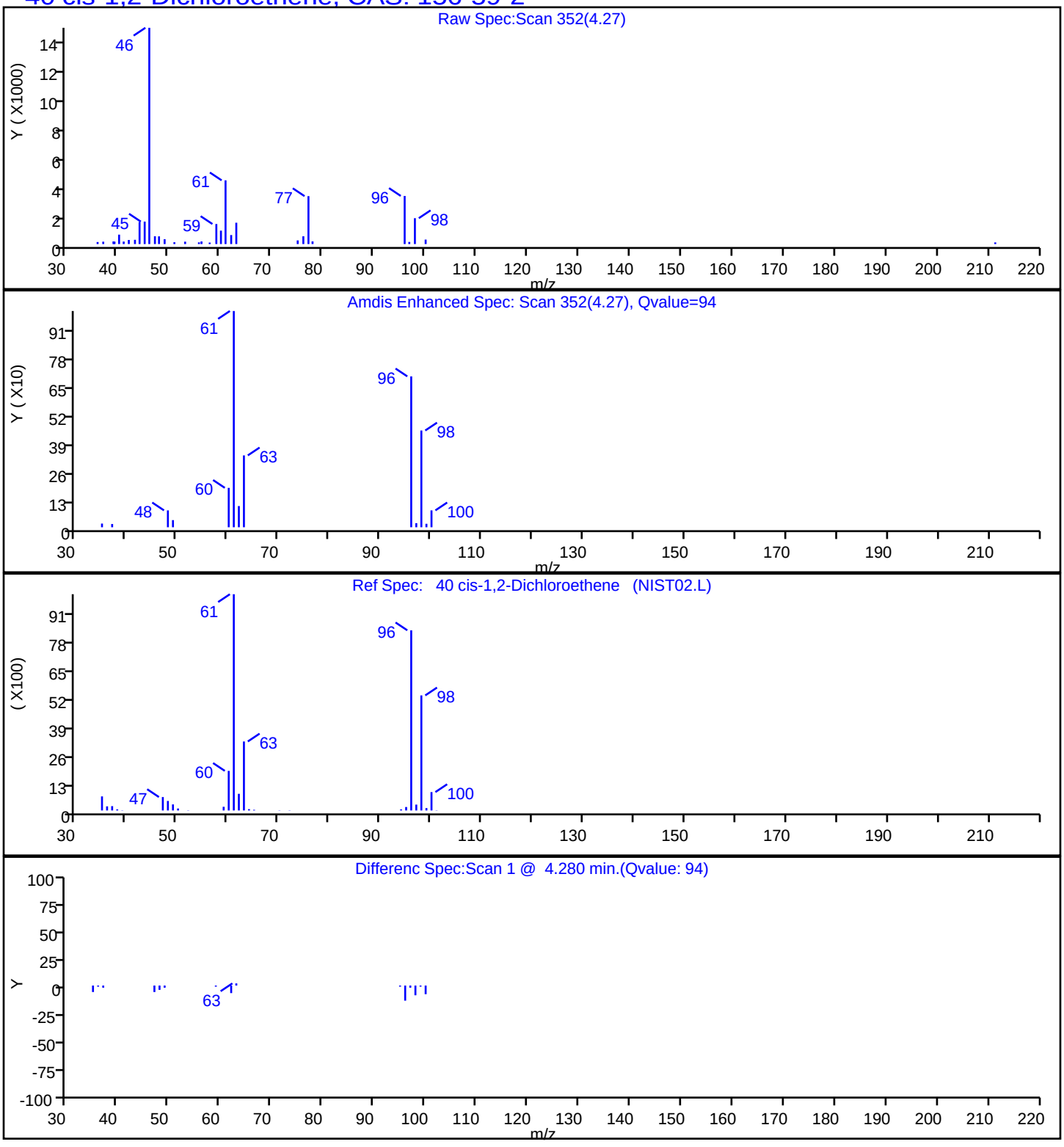
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D
Injection Date: 01-Aug-2018 01:53:30 Instrument ID: CVOAMS6
Lims ID: 480-139579-G-10 Lab Sample ID: 460-139579-10
Client ID: MW-161-3-20180725
Operator ID: ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

50 1,1,1-Trichloroethane, CAS: 71-55-6



Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D		
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10
Client ID:	MW-161-3-20180725		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

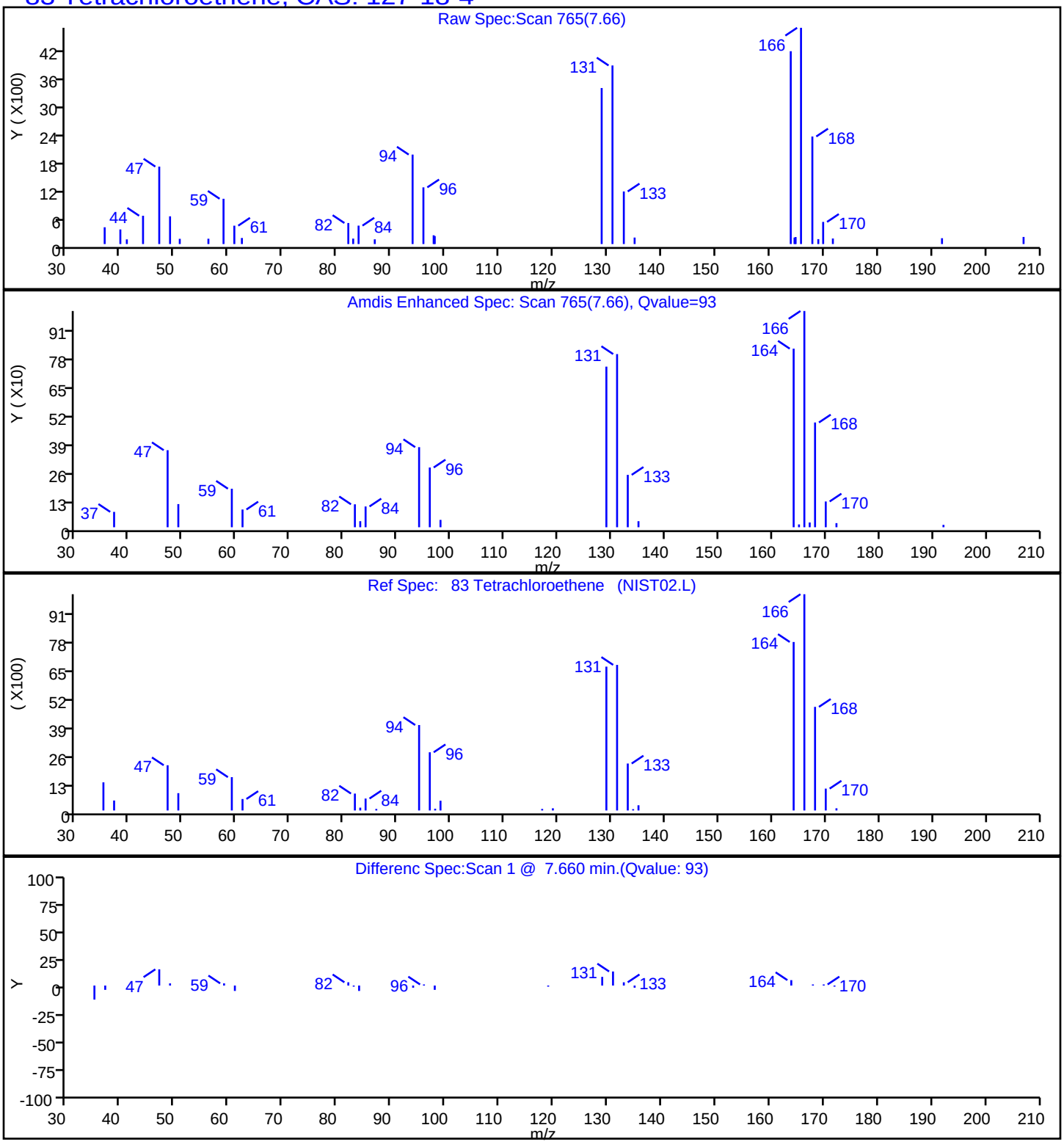
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D		
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10
Client ID:	MW-161-3-20180725		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

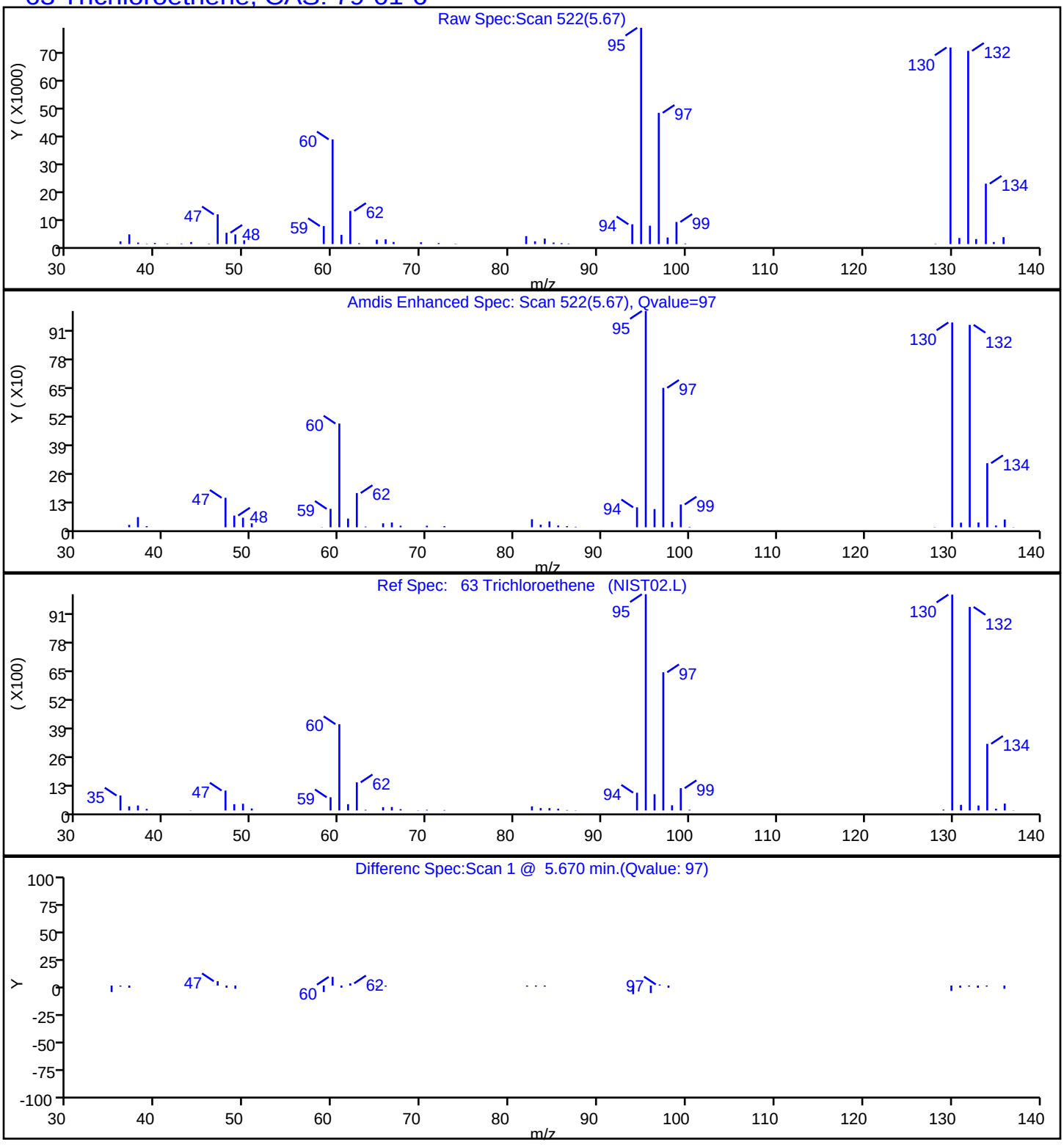
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

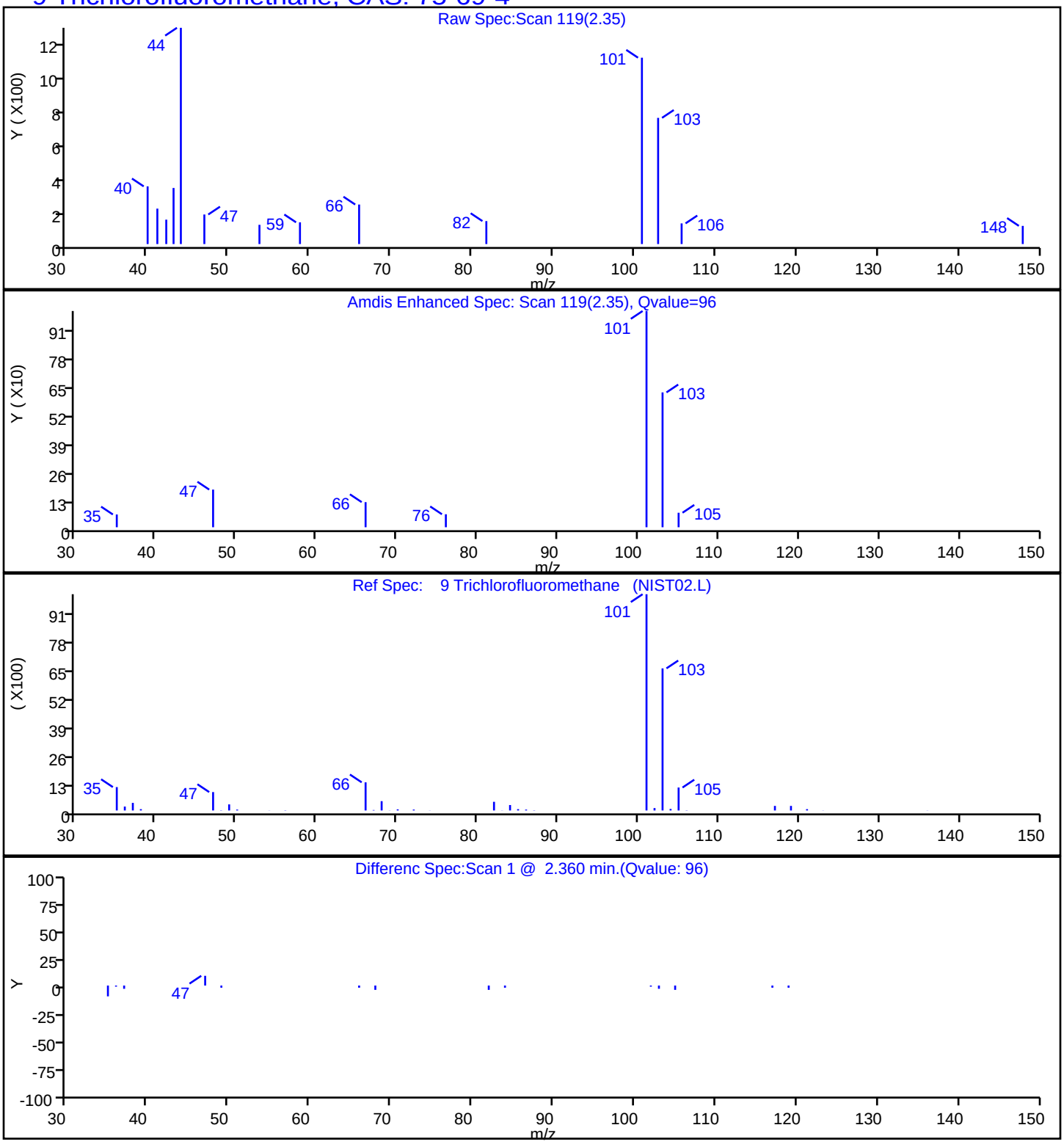
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D		
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10
Client ID:	MW-161-3-20180725		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

63 Trichloroethene, CAS: 79-01-6



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D
Injection Date: 01-Aug-2018 01:53:30 Instrument ID: CVOAMS6
Lims ID: 480-139579-G-10 Lab Sample ID: 460-139579-10
Client ID: MW-161-3-20180725
Operator ID: ALS Bottle#: 13 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4



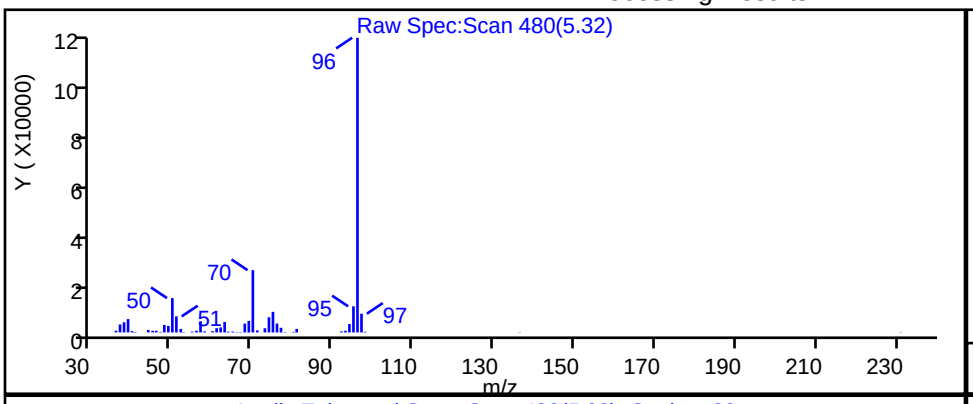
User Disabled Compound Report

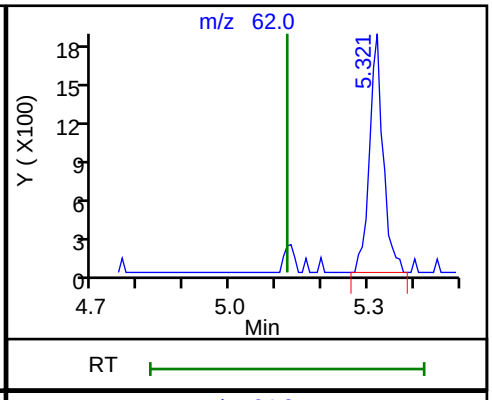
TestAmerica Edison

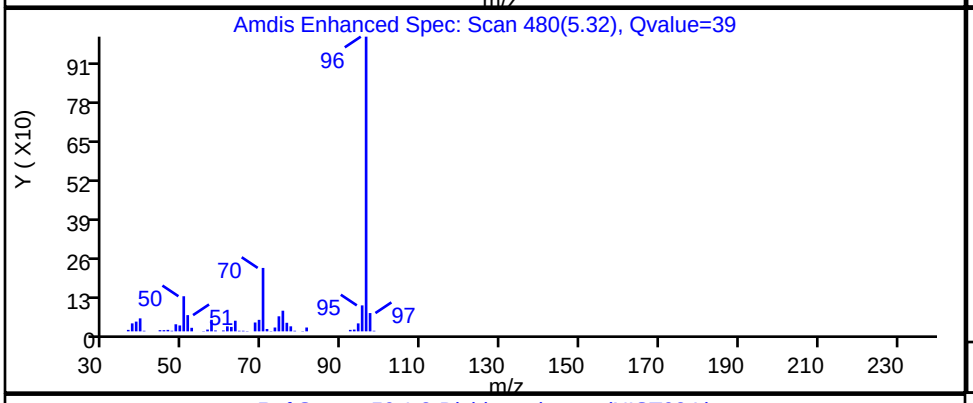
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D		
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10
Client ID:	MW-161-3-20180725		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

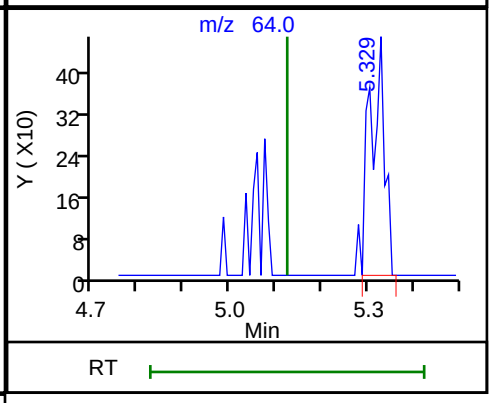
59 1,2-Dichloroethane, CAS: 107-06-2

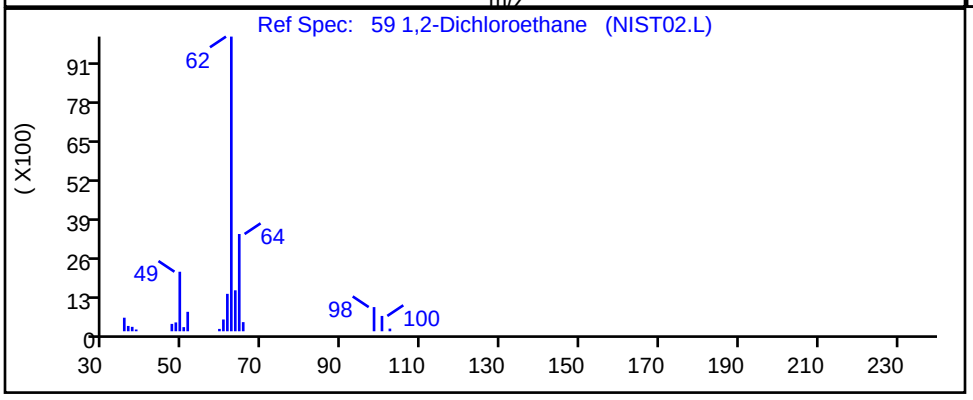
Processing Results











RT	Mass	Response	Amount
5.32	62.00	3898	1.049170
5.33	64.00	1007	

Reviewer: kaewink, 01-Aug-2018 14:48:51

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

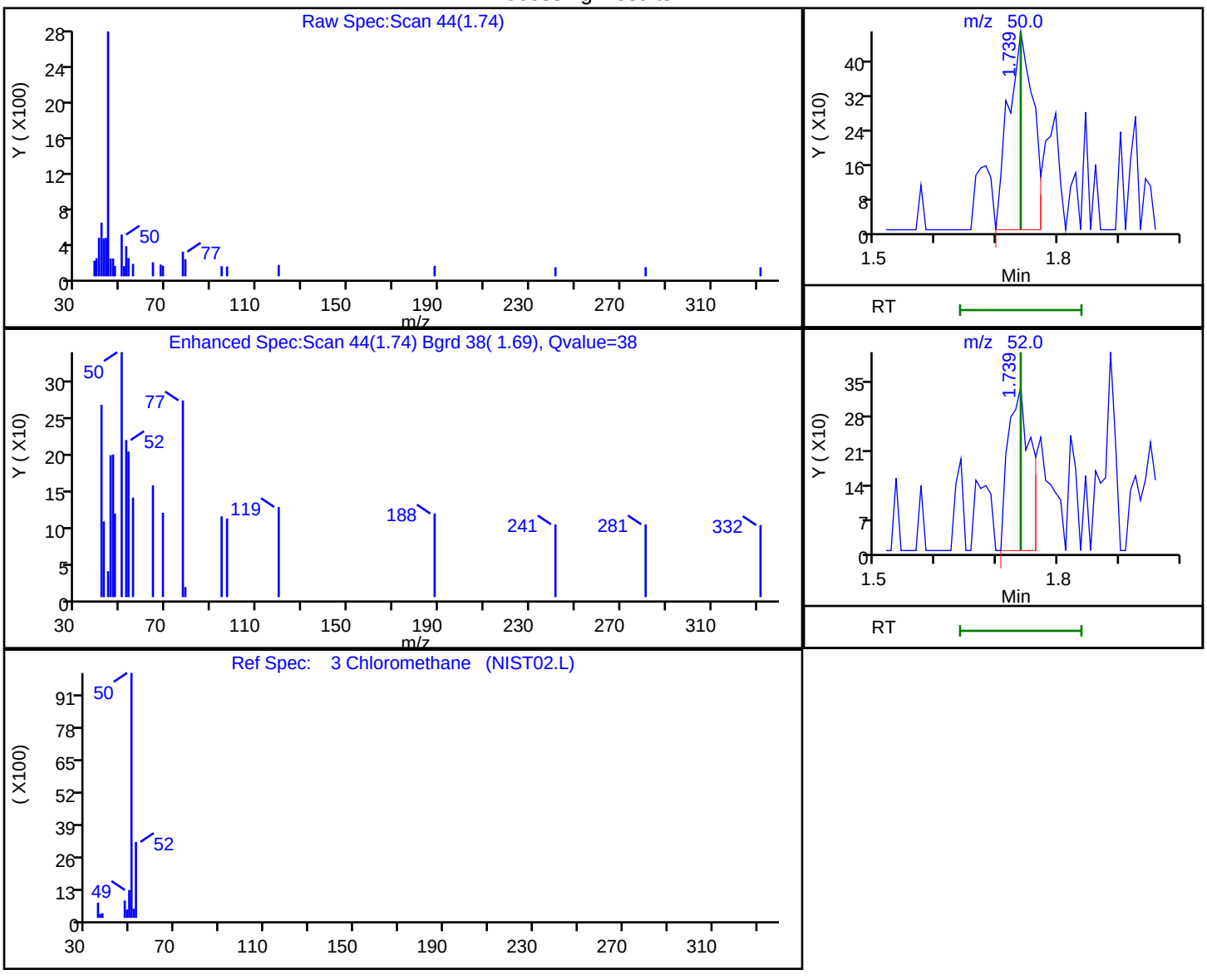
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68514.D		
Injection Date:	01-Aug-2018 01:53:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-G-10	Lab Sample ID:	460-139579-10
Client ID:	MW-161-3-20180725		
Operator ID:		ALS Bottle#:	13 Worklist Smp#: 14
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.74	50.00	1300	0.238120
1.74	52.00	844	

Reviewer: kaewink, 01-Aug-2018 14:49:17

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: TB-20180725 | Lab Sample ID: 480-139579-11

Matrix: Water | Lab File ID: F68512.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	12		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND	*	5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: TB-20180725 | Lab Sample ID: 480-139579-11

Matrix: Water | Lab File ID: F68512.D

Analysis Method: 8260C | Date Collected: 07/25/2018 08:00

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 01:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	0.53	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	94		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68512.D
Lims ID: 480-139579-B-11
Client ID: TB-20180725
Sample Type: Client
Inject. Date: 01-Aug-2018 01:07:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-B-11
Misc. Info.: 460-0076414-012
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:53:55 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 14:47:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.856	2.840	0.016	90	9473	12.2	
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	117452	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	135805	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	65392	49.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	76849	54.9	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	263005	50.0	
* 67 1,4-Dioxane-d8	96	6.052	6.020	0.032	0	8497	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	227989	48.7	
79 Toluene	91	7.055	7.047	0.008	95	6350	0.5303	
* 89 Chlorobenzene-d5	117	8.764	8.756	0.008	89	169731	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	64257	46.9	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.900	0.008	97	94282	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

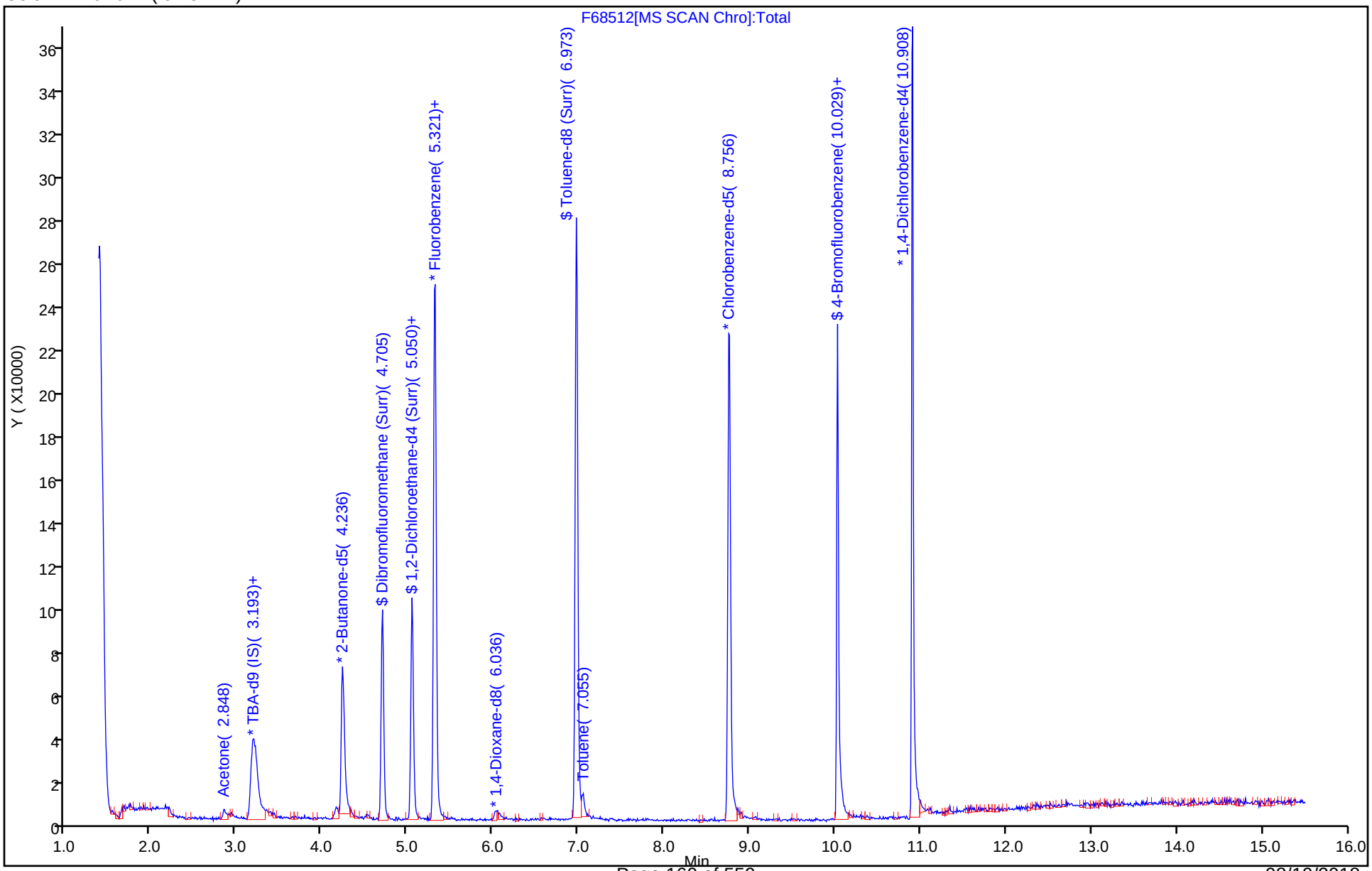
Report Date: 01-Aug-2018 08:54:49 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68512.D

Injection Date:	01-Aug-2018 01:07:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-B-11	Lab Sample ID:	460-139579-11	Worklist Smp#:	12
Client ID:	TB-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

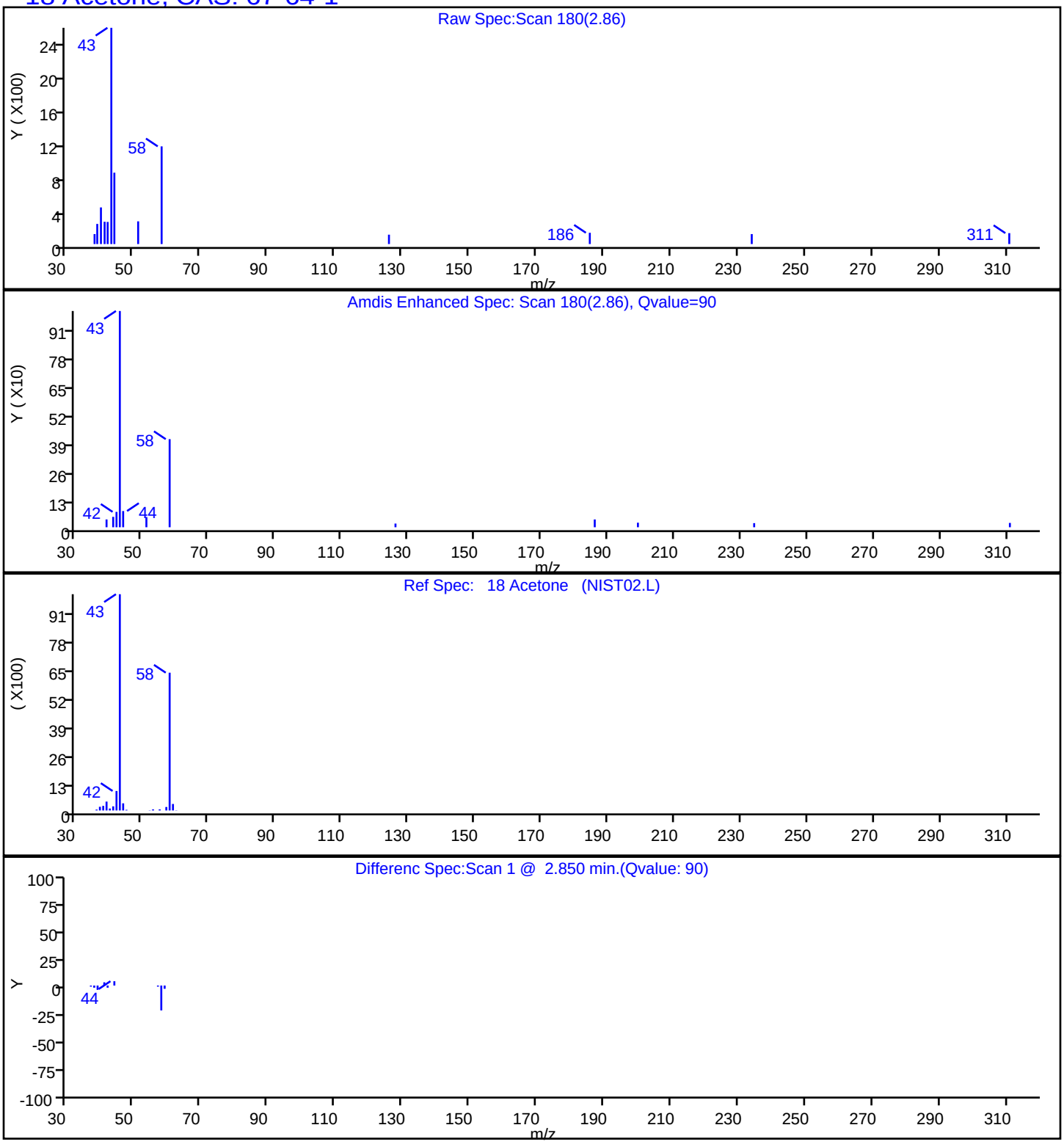
Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68512.D

Injection Date:	01-Aug-2018 01:07:30	Instrument ID:	CVOAMS6		
Lims ID:	480-139579-B-11	Lab Sample ID:	460-139579-11		
Client ID:	TB-20180725				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

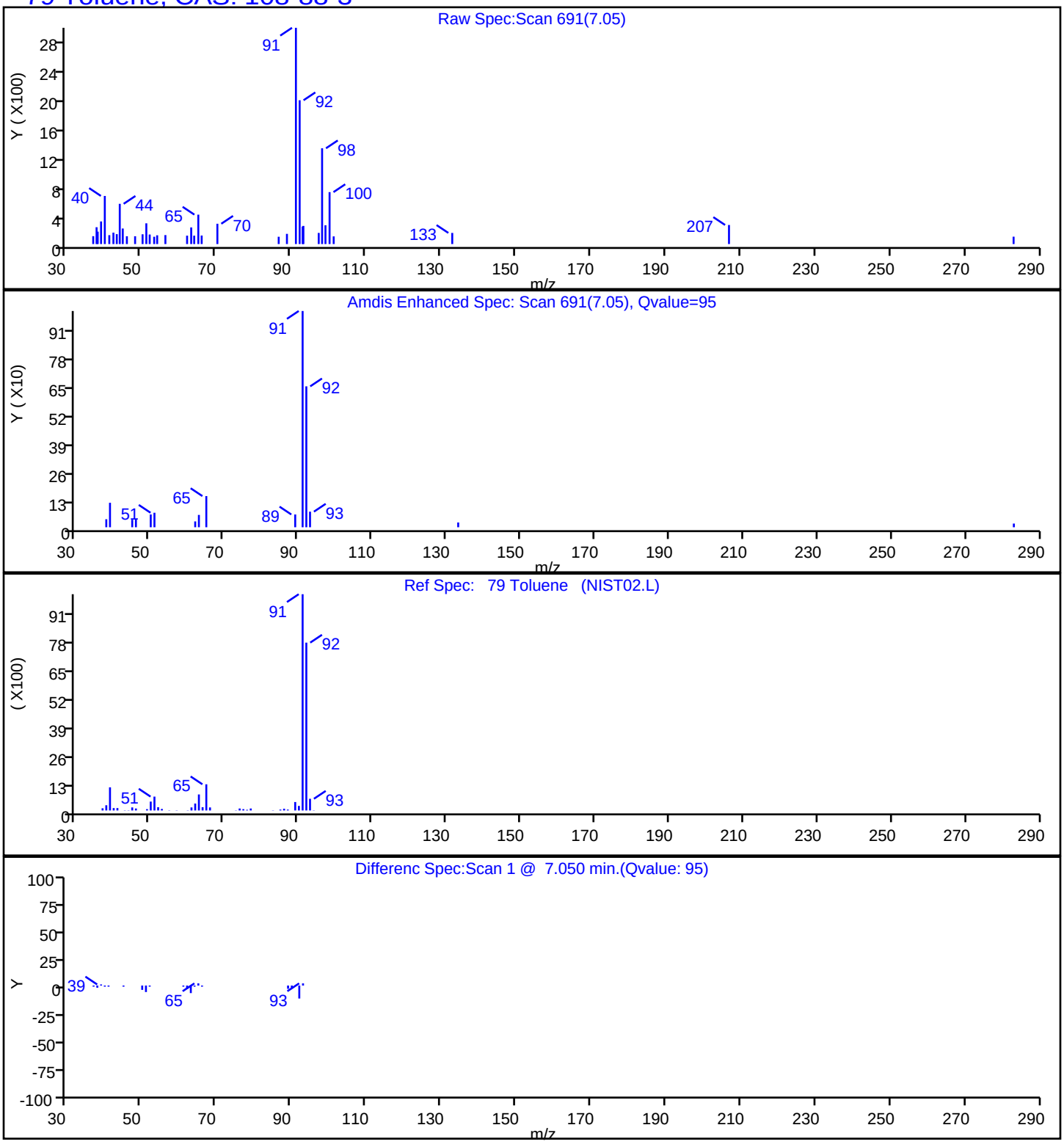
18 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68512.D

Injection Date:	01-Aug-2018 01:07:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-B-11	Lab Sample ID:	460-139579-11
Client ID:	TB-20180725		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

79 Toluene, CAS: 108-88-3



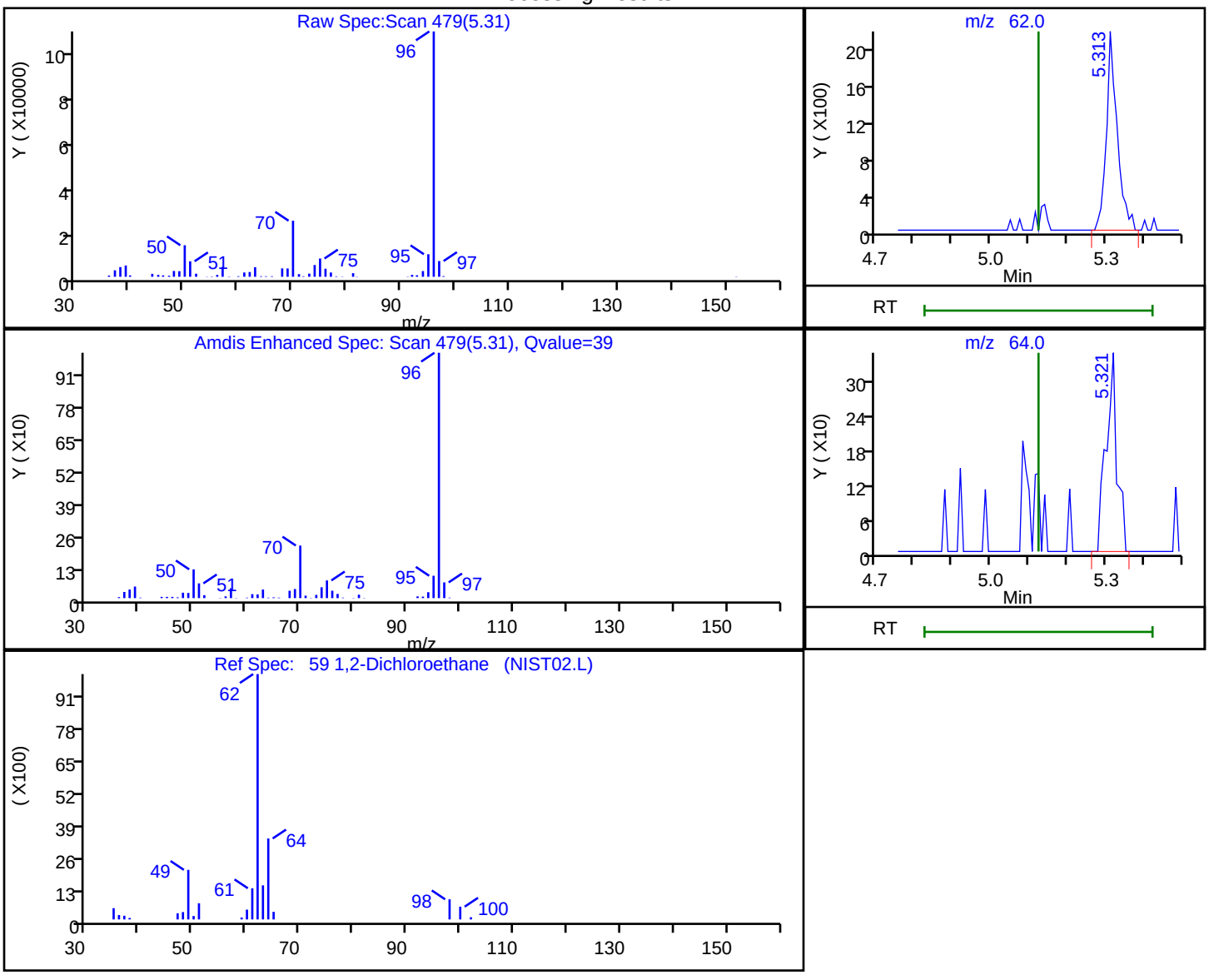
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68512.D		
Injection Date:	01-Aug-2018 01:07:30	Instrument ID:	CVOAMS6
Lims ID:	480-139579-B-11	Lab Sample ID:	460-139579-11
Client ID:	TB-20180725		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.31	62.00	4221	1.085190
5.32	64.00	695	

Reviewer: moroneyc, 01-Aug-2018 08:50:07

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.4747 1.5126	1.5929 1.4319	1.7816	1.6637	1.5955	Ave		1.5790			0.1000	7.6		20.0			
Chloromethane	1.3439 1.1847	1.3750 1.1272	1.4011	1.3402	1.2423	Ave		1.2878			0.1000	8.1		20.0			
Vinyl chloride	1.2491 1.1469	1.3474 1.1182	1.4288	1.3136	1.2262	Ave		1.2615			0.1000	8.8		20.0			
Butadiene	1.5366 1.2002	1.5098 1.1496	1.6099	1.4740	1.3333	Ave		1.4019				12.6		20.0			
Bromomethane	0.7649 0.6160	0.7835 0.6341	0.7838	0.7278	0.6732	Ave		0.7119			0.1000	10.0		20.0			
Chloroethane	0.6278 0.4814	0.6275 0.4988	0.6307	0.5878	0.5386	Ave		0.5704			0.1000	11.2		20.0			
Dichlorofluoromethane	1.5656 1.3690	1.6037 1.3372	1.7963	1.5889	1.4923	Ave		1.5362				10.1		20.0			
Trichlorofluoromethane	1.6647 1.4955	1.7900 1.4681	1.8430	1.7296	1.6485	Ave		1.6628			0.1000	8.5		20.0			
Ethyl ether	+++++ 0.8527	1.1181 0.8824	1.0084	1.0434	0.8833	Ave		0.9647				11.1		20.0			
Acrolein	+++++ 0.2583	0.2679 0.2320	0.2685	0.2754	0.2244	Ave		0.2544				8.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.2962 1.2350	1.3003 1.1690	1.4585	1.3695	1.2673	Ave		1.2994			0.1000	7.2		20.0			
1,1-Dichloroethene	1.3223 1.2050	1.3331 1.1478	1.4209	1.3551	1.2469	Ave		1.2901			0.1000	7.3		20.0			
Acetone	0.5589 0.5388	0.5196 0.4675	0.5652	0.5683	0.4552	Ave		0.5248			0.1000	8.9		20.0			
Iodomethane	2.2915 2.2413	2.3058 2.1269	2.5175	2.4118	2.2857	Ave		2.3115				5.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.0846 4.0140	4.1951 3.7611	4.5777	4.3856	4.1710	Ave		4.1699			0.1000	6.3		20.0			
Allyl chloride	2.1178 1.9555	2.1274 1.8329	2.2525	2.1229	2.0376	Ave		2.0638				6.6		20.0			
Methyl acetate	1.0023 1.0384	0.9318 0.9267	0.9946	1.0584	0.9032	Ave		0.9793			0.1000	6.1		20.0			
Methylene Chloride	+++++ 1.4716	2.7507 1.3822	2.2308	1.8197	1.5337	Lin1	7.7627	1.3667			0.1000				0.9990		0.9900
2-Methyl-2-propanol	0.1453 0.1741	0.1488 0.1429	0.1627	0.1680	0.1301	Ave		0.1531				10.2		20.0			
Methyl tert-butyl ether	4.6040 4.4851	4.5687 4.0658	4.7965	4.6946	4.2841	Ave		4.4999			0.1000	5.6		20.0			
trans-1,2-Dichloroethene	1.5356 1.4126	1.5672 1.3430	1.5913	1.5075	1.4411	Ave		1.4855			0.1000	6.0		20.0			
Acrylonitrile	0.5267 0.5040	0.4858 0.4331	0.5154	0.5324	0.4473	Ave		0.4921				7.9		20.0			
Hexane	+++++ 2.1502	2.6178 2.0414	2.5897	2.3890	2.2554	Ave		2.3406				10.0		20.0			
Vinyl acetate	2.8183 2.7768	2.7444 2.4042	2.8844	2.9177	2.6669	Ave		2.7447				6.3		20.0			
1,1-Dichloroethane	2.5793 2.4366	2.6671 2.2974	2.7173	2.5998	2.4820	Ave		2.5399			0.2000	5.7		20.0			
2,2-Dichloropropane	2.2423 2.0999	2.2180 1.9897	2.3425	2.2763	2.1565	Ave		2.1893				5.4		20.0			
2-Butanone (MEK)	+++++ 0.7334	0.6357 0.6362	0.7197	0.7549	0.6182	Ave		0.6830			0.1000	8.7		20.0			
cis-1,2-Dichloroethene	1.6984 1.5453	1.7105 1.4787	1.7386	1.6696	1.5896	Ave		1.6330			0.1000	5.9		20.0			
Chlorobromomethane	0.8057 0.7625	0.7782 0.7195	0.8163	0.7840	0.7481	Ave		0.7735				4.3		20.0			
Tetrahydrofuran	+++++ 0.4469	0.4092 0.3877	0.4349	0.4594	0.3658	Ave		0.4173				8.7		20.0			
Chloroform	2.8485 2.5141	2.7819 2.3681	2.8435	2.6989	2.5529	Ave		2.6583			0.2000	6.9		20.0			
1,1,1-Trichloroethane	2.2928 2.1755	2.2698 2.0696	2.4237	2.3365	2.2192	Ave		2.2553			0.1000	5.1		20.0			
Cyclohexane	2.3215 2.1489	2.3287 2.0166	2.5367	2.3650	2.2262	Ave		2.2776			0.1000	7.3		20.0			
1,1-Dichloropropene	2.1039 1.9932	2.1983 1.8716	2.2942	2.1692	2.0525	Ave		2.0976				6.7		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.7642 1.9380	1.8429 1.8634	2.0030	1.9386	1.9323	Ave		1.8975			0.1000	4.2		20.0			
Isobutyl alcohol	+++++ 0.0746	0.0553 0.0636	0.0628	0.0698	0.0572	Ave		0.0639				11.5		20.0			
Benzene	6.0364 5.4252	6.1096 4.9098	6.2596	5.9524	5.6173	Ave		5.7586			0.5000	8.2		20.0			
1,2-Dichloroethane	2.4008 2.1156	2.2629 1.9517	2.3236	2.2365	2.0875	Ave		2.1969			0.1000	7.0		20.0			
n-Heptane	2.5005 2.0683	2.3217 1.9971	2.4411	2.2991	2.1878	Ave		2.2594				8.2		20.0			
Trichloroethene	1.5834 1.4538	1.6101 1.3841	1.6658	1.5680	1.4887	Ave		1.5363			0.2000	6.4		20.0			
Methylcyclohexane	2.7144 2.5752	2.7821 2.4347	2.9681	2.8239	2.6568	Ave		2.7079			0.1000	6.4		20.0			
1,2-Dichloropropane	1.3724 1.2992	1.3978 1.2477	1.4219	1.3688	1.3145	Ave		1.3460			0.1000	4.5		20.0			
1,4-Dioxane	+++++ 0.0083	0.0059 0.0074	0.0079	0.0081	0.0071	Ave		0.0074				11.6		20.0			
Dibromomethane	0.9268 0.9170	0.9202 0.8604	0.9533	0.9568	0.8833	Ave		0.9168			0.1000	3.8		20.0			
Bromodichloromethane	1.7563 1.9472	1.8092 1.8656	1.9128	1.9132	1.8972	Ave		1.8717			0.2000	3.6		20.0			
2-Chloroethyl vinyl ether	0.7876 0.8599	0.8034 0.8070	0.8664	0.8577	0.8034	Ave		0.8265				4.0		20.0			
cis-1,3-Dichloropropene	2.2267 2.3105	2.2719 2.1945	2.3478	2.3327	2.2863	Ave		2.2815			0.2000	2.4		20.0			
4-Methyl-2-pentanone (MIBK)	0.6500 0.6497	0.6053 0.5397	0.6841	0.7179	0.5978	Ave		0.6349			0.1000	9.3		20.0			
Toluene	1.8799 1.7045	1.8075 1.6017	1.9211	1.8438	1.7804	Ave		1.7913			0.4000	6.1		20.0			
trans-1,3-Dichloropropene	0.9879 1.0967	0.9798 1.0451	1.0816	1.0766	1.0786	Ave		1.0495			0.1000	4.5		20.0			
Ethyl methacrylate	0.8931 0.9599	0.8295 0.8915	0.9267	0.9500	0.8970	Ave		0.9068				4.8		20.0			
1,1,2-Trichloroethane	0.5215 0.5068	0.4993 0.4797	0.5326	0.5305	0.4954	Ave		0.5094			0.1000	3.9		20.0			
Tetrachloroethene	0.8369 0.7666	0.8020 0.7301	0.8698	0.8335	0.8003	Ave		0.8056			0.2000	5.8		20.0			
1,3-Dichloropropane	1.0982 1.0751	1.0492 1.0080	1.1294	1.1243	1.0664	Ave		1.0787				4.0		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.4957 0.5120	0.4559 0.4319	0.5253	0.5732	0.4763	Ave		0.4957			0.1000	9.5		20.0			
Dibromochloromethane	+++++ 0.7088	0.5145 0.6920	0.5948	0.6380	0.6610	Ave		0.6349			0.1000	11.3		20.0			
1,2-Dibromoethane	0.6400 0.6651	0.6277 0.6251	0.6693	0.6762	0.6398	Ave		0.6490				3.2		20.0			
Chlorobenzene	1.9940 1.8452	1.9913 1.7058	2.0894	2.0185	1.9257	Ave		1.9386			0.5000	6.6		20.0			
Ethylbenzene	3.4648 3.0086	3.3389 2.6356	3.5356	3.3896	3.2260	Ave		3.2285			0.1000	9.7		20.0			
1,1,1,2-Tetrachloroethane	0.5524 0.6615	0.5748 0.6373	0.6595	0.6498	0.6505	Ave		0.6266				7.1		20.0			
m,p-Xylene	1.3697 1.2960	1.3825 1.2376	1.4556	1.3931	1.3516	Ave		1.3552			0.1000	5.2		20.0			
o-Xylene	1.3156 1.2341	1.2602 1.1624	1.3422	1.3018	1.2614	Ave		1.2682			0.3000	4.7		20.0			
Styrene	2.2408 2.1761	2.1846 2.0126	2.3575	2.2830	2.2368	Ave		2.2131			0.3000	4.9		20.0			
Bromoform	+++++ 0.4975	0.3050 0.4931	0.3539	0.3960	0.4302	Ave		0.4126			0.1000	18.6		20.0			
Isopropylbenzene	3.4909 2.9759	3.4156 2.6142	3.6639	3.4466	3.2222	Ave		3.2613			0.1000	11.0		20.0			
1,1,2,2-Tetrachloroethane	0.8540 0.8161	0.8113 0.7437	0.8698	0.8796	0.7712	Ave		0.8208			0.3000	6.2		20.0			
Bromobenzene	0.9579 0.8446	0.9284 0.7947	0.9717	0.9255	0.8713	Ave		0.8992				7.2		20.0			
trans-1,4-Dichloro-2-butene	0.2670 0.2806	0.2470 0.2520	0.2846	0.2936	0.2638	Ave		0.2698				6.4		20.0			
N-Propylbenzene	4.1652 3.3970	4.1069 2.8389	4.3071	4.0588	3.7452	Ave		3.8027				13.8		20.0			
1,2,3-Trichloropropane	0.3042 0.2754	0.2844 0.2500	0.3011	0.2964	0.2595	Ave		0.2816				7.5		20.0			
2-Chlorotoluene	0.8325 0.7648	0.8273 0.7242	0.8910	0.8444	0.7961	Ave		0.8115				6.8		20.0			
1,3,5-Trimethylbenzene	3.0130 2.5878	2.9103 2.2815	3.1285	2.9661	2.7922	Ave		2.8113				10.3		20.0			
4-Chlorotoluene	0.9149 0.8263	0.8987 0.7877	0.9463	0.9051	0.8647	Ave		0.8777				6.3		20.0			
tert-Butylbenzene	0.6703 0.5952	0.6601 0.5666	0.7098	0.6647	0.6323	Ave		0.6427				7.6		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0903 2.6863	3.0063 2.3320	3.1880	3.0367	2.8577	Ave		2.8853				10.2		20.0			
sec-Butylbenzene	3.8237 3.1849	3.7393 2.6643	4.0399	3.7699	3.5086	Ave		3.5329				13.3		20.0			
4-Isopropyltoluene	3.2157 2.7665	3.1543 2.3594	3.4030	3.2068	3.0169	Ave		3.0175				11.6		20.0			
1,3-Dichlorobenzene	1.7566 1.5857	1.7358 1.4501	1.8161	1.7390	1.6522	Ave		1.6765			0.6000	7.4		20.0			
1,4-Dichlorobenzene	1.8801 1.6003	1.7775 1.4740	1.8623	1.7622	1.6825	Ave		1.7198			0.5000	8.5		20.0			
n-Butylbenzene	2.8611 2.4926	2.8658 2.1492	3.0424	2.9068	2.7161	Ave		2.7191				11.2		20.0			
1,2-Dichlorobenzene	1.6160 1.4706	1.5845 1.3482	1.6899	1.6020	1.5027	Ave		1.5448			0.4000	7.3		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1790	0.1296 0.1661	0.1553	0.1673	0.1514	Ave		0.1581			0.0500	10.8		20.0			
1,2,4-Trichlorobenzene	1.0548 1.0078	1.0196 0.9219	1.1327	1.0779	1.0033	Ave		1.0312			0.2000	6.4		20.0			
Hexachlorobutadiene	0.6270 0.5814	0.6334 0.5328	0.7073	0.6588	0.6055	Ave		0.6209				9.0		20.0			
Naphthalene	2.3276 2.4827	2.2857 2.0897	2.6302	2.6535	2.3625	Ave		2.4046				8.3		20.0			
1,2,3-Trichlorobenzene	0.9480 0.9397	0.9399 0.8615	1.0514	0.9910	0.9210	Ave		0.9504				6.2		20.0			
Dibromofluoromethane (Surr)	1.2187 1.2435	1.2417 1.2311	1.2241	1.2227	1.2093	Ave		1.2273				1.0		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7935 0.8045	0.8093 0.7769	0.8028	0.7921	0.7796	Ave		0.7941				1.6		20.0			
Toluene-d8 (Surr)	2.2827 2.3283	2.2632 2.3452	2.2908	2.3097	2.3202	Ave		2.3057				1.2		20.0			
4-Bromofluorobenzene (Surr)	0.7737 0.7930	0.7726 0.7905	0.7693	0.7720	0.7844	Ave		0.7793				1.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-413081/6	F2158.D
Level 2	IC 480-413081/7	F2159.D
Level 3	IC 480-413081/8	F2160.D
Level 4	IC 480-413081/9	F2161.D
Level 5	ICIS 480-413081/10	F2162.D
Level 6	IC 480-413081/11	F2163.D
Level 7	IC 480-413081/12	F2164.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	23831 970484	48159 1870641	105330	206475	506261	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	21718 760112	41572 1472544	82833	166326	394187	2.50 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	20186 735842	40739 1460875	84472	163031	389073	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	24832 770039	45648 1501829	95178	182936	423068	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	12361 395241	23689 828372	46341	90326	213610	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	10146 308882	18972 651639	37289	72955	170887	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	25301 878377	48486 1746904	106200	197200	473505	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	26902 959534	54119 1917931	108956	214653	523065	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	+++++ 547110	33804 1152714	59617	129494	280286	+++++ 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	+++++ 828749	40495 1515180	79379	170914	356028	+++++ 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	20947 792353	39313 1527242	86228	169969	402106	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	21368 773145	40306 1499517	84002	168177	395634	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	45161 1728336	78544 3053604	167072	352639	722105	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	37031 1438044	69715 2778637	148837	299322	725238	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	66008 2575399	126834 4913516	270635	544294	1323471	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Allyl chloride	FB	Ave	34224 1254658	64320 2394553	133169	263471	646522	2.50 100	5.00 200	10.0	20.0	50.0
Methyl acetate	FB	Ave	32395 1332522	56347 2421323	117597	262706	573139	5.00 200	10.0 400	20.0	40.0	100
Methylene Chloride	FB	Lin1	+++++ 944214	83165 1805747	131887	225835	486638	+++++ 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	23486 1117217	44988 1866652	96196	208452	412929	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	74402 2877699	138132 5311617	283570	582644	1359349	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	24815 906313	47384 1754514	94079	187099	457275	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	85112 3233654	146892 5657949	304693	660754	1419339	25.0 1000	50.0 2000	100	200	500
Hexane	FB	Ave	+++++ 1379552	79146 2666829	153106	296489	715625	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	91090 3563205	165950 6281626	341048	724214	1692385	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	41683 1563343	80637 3001328	160649	322652	787529	2.50 100	5.00 200	10.0	20.0	50.0
2,2-Dichloropropane	FB	Ave	36237 1347299	67058 2599387	138488	282513	684267	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	+++++ 2352803	96102 4155648	212748	468442	980697	+++++ 500	25.0 1000	50.0	100	250
cis-1,2-Dichloroethene	FB	Ave	27447 991447	51716 1931790	102786	207216	504389	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	13021 489249	23529 939948	48262	97304	237384	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	+++++ 573450	24742 1013003	51417	114020	232108	+++++ 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	46033 1613060	84108 3093755	168110	334961	810041	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	37052 1395790	68627 2703792	143290	289982	704160	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	37516 1378722	70406 2634538	149969	293518	706363	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	33999 1278846	66464 2445117	135631	269214	651263	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	28510 1243420	55718 2434358	118417	240591	613133	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	+++++ 1196074	41826 2077352	92881	216612	453518	+++++ 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	97550 3480851	184720 6414236	370070	738740	1782362	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	38797 1357413	68416 2549664	137370	277563	662378	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	40409 1327032	70196 2609005	144320	285334	694204	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	25588 932749	48681 1808222	98482	194597	472358	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	43865 1652250	84116 3180641	175476	350475	842987	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	22178 833564	42261 1630061	84064	169875	417075	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 218431	7688 391740	19287	40837	90905	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	14978 588328	27823 1123988	56360	118746	280274	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	28383 1249367	54701 2437257	113083	237447	601975	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	12728 551747	24289 1054234	51220	106449	254924	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	35984 1482439	68689 2866859	138801	289513	725446	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	109354 4269190	196305 7165809	418620	910358	1916594	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	63252 2239990	117243 4253584	235124	467633	1141602	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	33238 1441202	63557 2775351	132381	273052	691569	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	30048 1261468	53807 2367523	113419	240938	575124	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	17545 665976	32387 1273909	65178	134553	317622	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	28159 1007514	52022 1939047	106454	211396	513159	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	36952 1412885	68058 2676910	138230	285150	683791	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	83388 3363984	147843 5734469	321433	726871	1527085	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Ave	+++++ 931528	33375 1837784	72801	161803	423837	+++++ 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	21533 874036	40715 1660134	81911	171502	410248	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	67092 2424875	129168 4530079	255717	511957	1234720	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	116577 3953899	216574 6999358	432718	859703	2068503	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	18585 869371	37285 1692523	80719	164796	417123	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	46087 1703198	89677 3286708	178145	353316	866603	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	44264 1621772	81745 3086903	164273	330183	808767	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	75396 2859737	141701 5344805	288535	579043	1434229	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 653783	19782 1309515	43312	100445	275817	+++++ 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	110494 3954109	208829 7035681	425966	843949	2047429	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	27032 1084375	49605 2001615	101118	215385	490044	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	30319 1122268	56761 2138796	112972	226633	553615	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	8450 372857	15102 678115	33091	71882	167640	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	131839 4513616	251097 7640594	500735	993856	2379752	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	9630 365896	17388 672880	35007	72575	164888	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	26352 1016130	50581 1949120	103590	206762	505881	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	95367 3438340	177936 6140462	363718	726292	1774197	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	28958 1097958	54945 2120077	110013	221628	549425	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	21218 790782	40356 1524919	82525	162753	401791	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	97816 3569277	183803 6276260	370634	743593	1815784	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	121027 4231777	228623 7170684	469677	923130	2229369	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	101785 3675792	192857 6350065	395629	785245	1916976	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	55600 2106967	106130 3902824	211139	425814	1049816	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1 Analy Batch No.: 413081

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/08/2018 13:08 Calibration End Date: 05/08/2018 15:41 Calibration ID: 33794

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	59509 2126360	108676 3967003	216510	431504	1069081	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	90559 3311931	175214 5784281	353712	711785	1725818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	51151 1953969	96879 3628583	196462	392276	954818	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 237848	7922 447122	18057	40957	96205	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	33387 1339108	62339 2481204	131691	263952	637529	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	19847 772533	38725 1434094	82232	161308	384742	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	73674 3298812	139746 5624161	305790	649744	1501140	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	30005 1248595	57466 2318537	122240	242674	585229	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	393897 398932	375428 402086	361843	379363	383697	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	256472 258094	244683 253737	237296	245754	247352	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1536086 1529884	1468002 1557059	1401827	1464478	1487663	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	520628 521062	501136 524824	470749	489515	502957	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-May-2018 13:08:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0071332-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:51 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 15:02:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	98	323206	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	672926	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	633044	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	393897	50.0	49.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	256472	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	6.554	6.560	-0.006	93	1536086	50.0	49.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	520628	50.0	49.6	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	23831	2.50	2.33	
12 Chloromethane	50	1.991	1.985	0.006	99	21718	2.50	2.61	
13 Vinyl chloride	62	2.076	2.076	0.000	93	20186	2.50	2.48	
151 Butadiene	54	2.082	2.082	0.000	88	24832	2.50	2.74	
14 Bromomethane	94	2.368	2.362	0.006	93	12361	2.50	2.69	
15 Chloroethane	64	2.417	2.417	0.000	95	10146	2.50	2.75	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	25301	2.50	2.55	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	97	26902	2.50	2.50	
18 Ethyl ether	59	2.770	2.763	0.007	88	20899	2.50	3.35	
20 Acrolein	56	2.922	2.916	0.006	97	24741	12.5	15.0	
21 1,1,2-Trichloro-1,2,2-trif	101	2.946	2.952	-0.006	93	20947	2.50	2.49	
22 1,1-Dichloroethene	96	2.983	2.976	0.007	98	21368	2.50	2.56	
23 Acetone	43	3.031	3.025	0.006	99	45161	12.5	13.3	
25 Iodomethane	142	3.129	3.128	0.001	99	37031	2.50	2.48	
26 Carbon disulfide	76	3.183	3.183	0.000	99	66008	2.50	2.45	
27 Methyl acetate	43	3.250	3.244	0.006	74	32395	5.00	5.12	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	34224	2.50	2.57	
30 Methylene Chloride	84	3.354	3.354	0.000	90	63428	2.50	1.50	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	97	23486	25.0	23.7	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	74402	2.50	2.56	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	24815	2.50	2.58	
33 Acrylonitrile	53	3.554	3.548	0.006	99	85112	25.0	26.8	
35 Hexane	57	3.670	3.670	0.000	91	47053	2.50	3.11	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	91090	5.00	5.13	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	41683	2.50	2.54	
43 2-Butanone (MEK)	43	4.303	4.290	0.013	94	46597	12.5	10.6	
44 2,2-Dichloropropane	77	4.291	4.290	0.000	69	36237	2.50	2.56	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	82	27447	2.50	2.60	
48 Chlorobromomethane	128	4.503	4.503	0.000	86	13021	2.50	2.60	
49 Tetrahydrofuran	42	4.534	4.522	0.012	51	15767	5.00	5.85	M
50 Chloroform	83	4.540	4.540	0.000	93	46033	2.50	2.68	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	37052	2.50	2.54	
52 Cyclohexane	56	4.710	4.704	0.006	89	37516	2.50	2.55	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	93	33999	2.50	2.51	
55 Carbon tetrachloride	117	4.808	4.808	0.000	78	28510	2.50	2.32	
53 Isobutyl alcohol	43	4.875	4.862	0.013	94	20269	62.5	49.1	
57 Benzene	78	4.978	4.978	0.000	92	97550	2.50	2.62	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	94	38797	2.50	2.73	
59 n-Heptane	43	5.075	5.075	0.000	90	40409	2.50	2.77	
62 Trichloroethene	95	5.495	5.495	0.000	97	25588	2.50	2.58	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	43865	2.50	2.51	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	87	22178	2.50	2.55	
66 1,4-Dioxane	88	5.824	5.817	0.007	61	3066	50.0	30.6	
67 Dibromomethane	93	5.842	5.842	0.000	95	14978	2.50	2.53	
68 Dichlorobromomethane	83	5.957	5.957	0.000	98	28383	2.50	2.35	
69 2-Chloroethyl vinyl ether	63	6.158	6.164	-0.006	95	12728	2.50	2.38	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.000	95	35984	2.50	2.44	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	96	109354	12.5	12.8	
74 Toluene	92	6.621	6.620	0.001	98	63252	2.50	2.62	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	33238	2.50	2.35	
75 Ethyl methacrylate	69	6.852	6.852	0.000	74	30048	2.50	2.46	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	17545	2.50	2.56	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	28159	2.50	2.60	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	88	36952	2.50	2.55	
80 2-Hexanone	43	7.229	7.217	0.012	95	83388	12.5	12.5	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	17692	2.50	2.07	
84 Ethylene Dibromide	107	7.570	7.563	0.007	97	21533	2.50	2.47	
87 Chlorobenzene	112	8.020	8.020	0.000	96	67092	2.50	2.57	
88 Ethylbenzene	91	8.087	8.087	0.000	98	116577	2.50	2.68	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	90	18585	2.50	2.20	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	46087	2.50	2.53	
91 o-Xylene	106	8.628	8.628	0.000	96	44264	2.50	2.59	
92 Styrene	104	8.652	8.652	0.000	95	75396	2.50	2.53	
95 Bromoform	173	8.926	8.920	0.006	93	10426	2.50	1.88	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	110494	2.50	2.68	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	27032	2.50	2.60	
101 Bromobenzene	156	9.389	9.388	0.001	91	30319	2.50	2.66	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	43	8450	2.50	2.47	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	131839	2.50	2.74	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	54	9630	2.50	2.70	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	26352	2.50	2.56	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	95367	2.50	2.68	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	28958	2.50	2.61	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	21218	2.50	2.61	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	97816	2.50	2.68	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	94	121027	2.50	2.71	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	101785	2.50	2.66	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	96	55600	2.50	2.62	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	59509	2.50	2.73	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	90559	2.50	2.63	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	51151	2.50	2.62	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	85	4091	2.50	2.04	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	33387	2.50	2.56	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	19847	2.50	2.52	
121 Naphthalene	128	12.266	12.266	0.000	97	73674	2.50	2.42	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	30005	2.50	2.49	
S 125 1,2-Dichloroethene, Total	1				0			5.18	
S 126 1,3-Dichloropropene, Total	1				0			4.79	
S 123 Total BTEX	1				0			13.0	
S 124 Xylenes, Total	1				0			5.12	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	2.50	Units: uL	
GAS CORP mix_00280	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

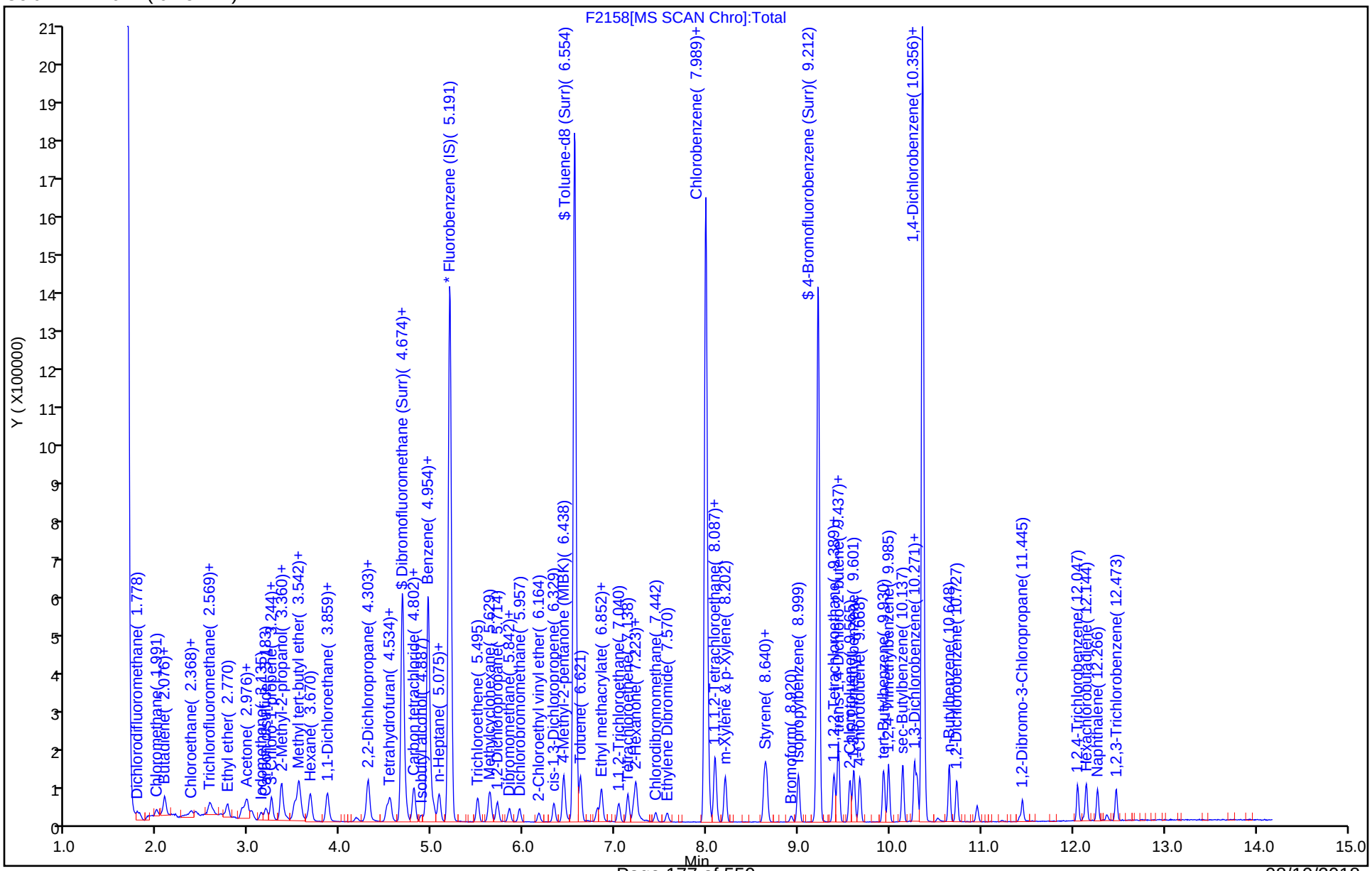
Report Date: 09-May-2018 10:46:55 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D

Injection Date:	08-May-2018 13:08:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

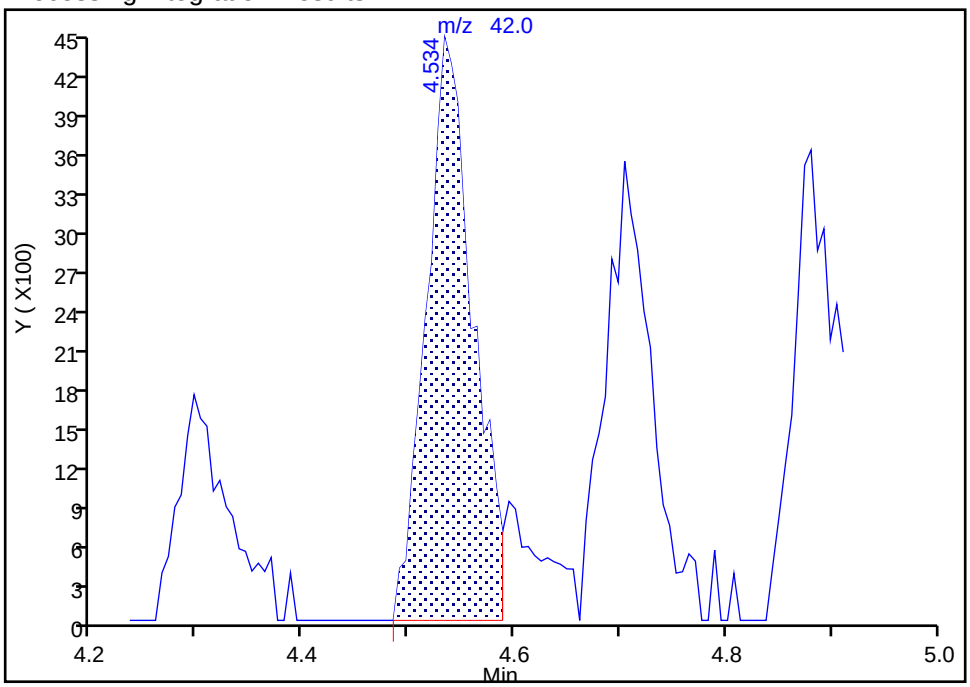
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2158.D
Injection Date: 08-May-2018 13:08:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

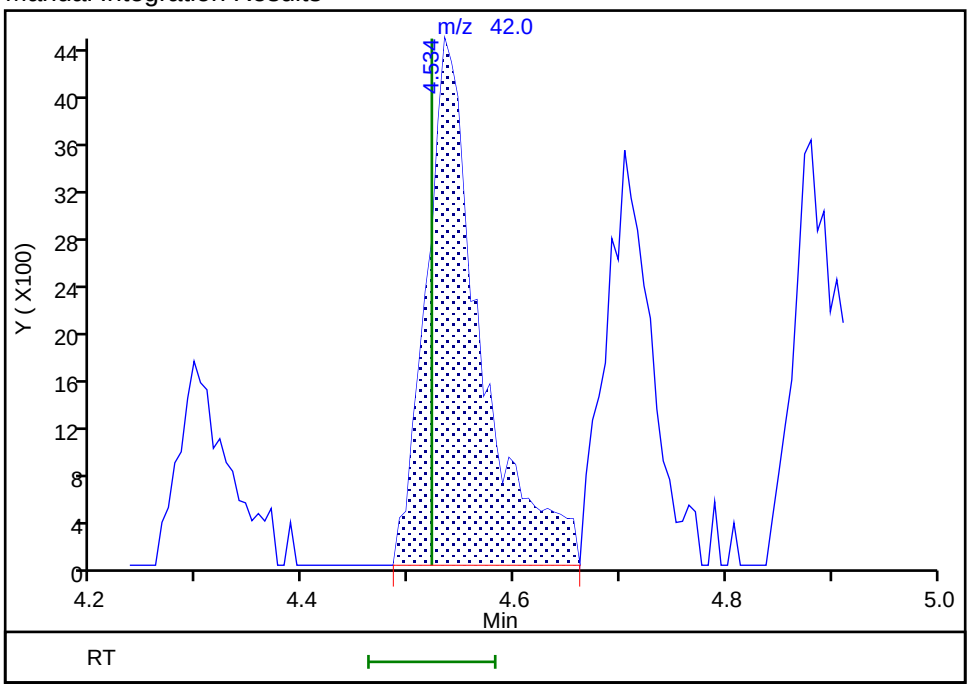
Processing Integration Results

RT: 4.53
Area: 13597
Amount: 3.217188
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 15767
Amount: 5.845259
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:33:26
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-May-2018 13:33:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0071332-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:46:59 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:35:15

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	302342	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	648646	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	96	611401	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.674	0.006	93	375428	50.0	50.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	98	244683	50.0	51.0	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1468002	50.0	49.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	501136	50.0	49.6	
10 Dichlorodifluoromethane	85	1.821	1.808	0.013	99	48159	5.00	5.04	
12 Chloromethane	50	2.003	1.985	0.018	100	41572	5.00	5.34	
13 Vinyl chloride	62	2.088	2.076	0.012	97	40739	5.00	5.34	
151 Butadiene	54	2.088	2.082	0.006	89	45648	5.00	5.38	
14 Bromomethane	94	2.374	2.362	0.012	92	23689	5.00	5.50	M
15 Chloroethane	64	2.423	2.417	0.006	97	18972	5.00	5.50	
16 Dichlorofluoromethane	67	2.581	2.569	0.012	96	48486	5.00	5.22	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	95	54119	5.00	5.38	
18 Ethyl ether	59	2.776	2.763	0.013	87	33804	5.00	5.79	
20 Acrolein	56	2.928	2.916	0.012	98	40495	25.0	26.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	94	39313	5.00	5.00	
22 1,1-Dichloroethene	96	2.989	2.976	0.013	99	40306	5.00	5.17	
23 Acetone	43	3.043	3.025	0.018	100	78544	25.0	24.8	
25 Iodomethane	142	3.141	3.128	0.013	100	69715	5.00	4.99	
26 Carbon disulfide	76	3.195	3.183	0.012	100	126834	5.00	5.03	
27 Methyl acetate	43	3.256	3.244	0.012	76	56347	10.0	9.52	
28 3-Chloro-1-propene	41	3.250	3.244	0.006	82	64320	5.00	5.15	
30 Methylene Chloride	84	3.360	3.354	0.006	92	83165	5.00	4.38	
31 2-Methyl-2-propanol	59	3.414	3.402	0.012	97	44988	50.0	48.6	
32 Methyl tert-butyl ether	73	3.512	3.500	0.012	94	138132	5.00	5.08	
34 trans-1,2-Dichloroethene	96	3.542	3.536	0.006	98	47384	5.00	5.28	
33 Acrylonitrile	53	3.560	3.548	0.012	98	146892	50.0	49.4	
35 Hexane	57	3.676	3.670	0.006	91	79146	5.00	5.59	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.859	3.846	0.013	98	165950	10.0	10.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	80637	5.00	5.25	
43 2-Butanone (MEK)	43	4.309	4.290	0.019	99	96102	25.0	23.3	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	87	67058	5.00	5.07	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	83	51716	5.00	5.24	
48 Chlorobromomethane	128	4.510	4.503	0.007	88	23529	5.00	5.03	
49 Tetrahydrofuran	42	4.534	4.522	0.012	52	24742	10.0	9.81	M
50 Chloroform	83	4.546	4.540	0.006	93	84108	5.00	5.23	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	53	68627	5.00	5.03	
52 Cyclohexane	56	4.716	4.704	0.012	89	70406	5.00	5.11	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	94	66464	5.00	5.24	
55 Carbon tetrachloride	117	4.808	4.808	0.000	74	55718	5.00	4.86	
53 Isobutyl alcohol	43	4.881	4.862	0.019	93	41826	125.0	108.3	
57 Benzene	78	4.984	4.978	0.006	94	184720	5.00	5.30	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	95	68416	5.00	5.15	
59 n-Heptane	43	5.081	5.075	0.006	88	70196	5.00	5.14	
62 Trichloroethene	95	5.495	5.495	0.000	97	48681	5.00	5.24	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	84116	5.00	5.14	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	91	42261	5.00	5.19	
66 1,4-Dioxane	88	5.842	5.817	0.025	87	7688	100.0	79.7	
67 Dibromomethane	93	5.842	5.842	0.000	95	27823	5.00	5.02	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	54701	5.00	4.83	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	24289	5.00	4.86	
72 cis-1,3-Dichloropropene	75	6.335	6.328	0.007	95	68689	5.00	4.98	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	196305	25.0	23.8	
74 Toluene	92	6.621	6.620	0.001	99	117243	5.00	5.05	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	63557	5.00	4.67	
75 Ethyl methacrylate	69	6.852	6.852	0.000	84	53807	5.00	4.57	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	32387	5.00	4.90	
81 Tetrachloroethene	166	7.144	7.138	0.006	95	52022	5.00	4.98	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	90	68058	5.00	4.86	
80 2-Hexanone	43	7.229	7.217	0.012	95	147843	25.0	23.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	33375	5.00	4.05	
84 Ethylene Dibromide	107	7.570	7.563	0.007	98	40715	5.00	4.84	
87 Chlorobenzene	112	8.020	8.020	0.000	94	129168	5.00	5.14	
88 Ethylbenzene	91	8.087	8.087	0.000	98	216574	5.00	5.17	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	37285	5.00	4.59	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	89677	5.00	5.10	
91 o-Xylene	106	8.628	8.628	0.000	96	81745	5.00	4.97	
92 Styrene	104	8.652	8.652	0.000	95	141701	5.00	4.94	
95 Bromoform	173	8.926	8.920	0.006	94	19782	5.00	3.70	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	208829	5.00	5.24	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	49605	5.00	4.94	
101 Bromobenzene	156	9.389	9.388	0.001	91	56761	5.00	5.16	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	43	15102	5.00	4.58	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	251097	5.00	5.40	
100 1,2,3-Trichloropropane	110	9.437	9.443	-0.006	53	17388	5.00	5.05	
103 2-Chlorotoluene	126	9.565	9.565	0.000	96	50581	5.00	5.10	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	177936	5.00	5.18	
105 4-Chlorotoluene	126	9.674	9.668	0.006	98	54945	5.00	5.12	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	40356	5.00	5.13	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	183803	5.00	5.21	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	228623	5.00	5.29	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	192857	5.00	5.23	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	106130	5.00	5.18	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	108676	5.00	5.17	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	175214	5.00	5.27	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	96879	5.00	5.13	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	79	7922	5.00	4.10	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	62339	5.00	4.94	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	38725	5.00	5.10	
121 Naphthalene	128	12.266	12.266	0.000	97	139746	5.00	4.75	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	57466	5.00	4.94	
S 125 1,2-Dichloroethene, Total	1				0			10.5	
S 126 1,3-Dichloropropene, Total	1				0			9.65	
S 123 Total BTEX	1				0			25.6	
S 124 Xylenes, Total	1				0			10.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	5.00	Units: uL	
GAS CORP mix_00280	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

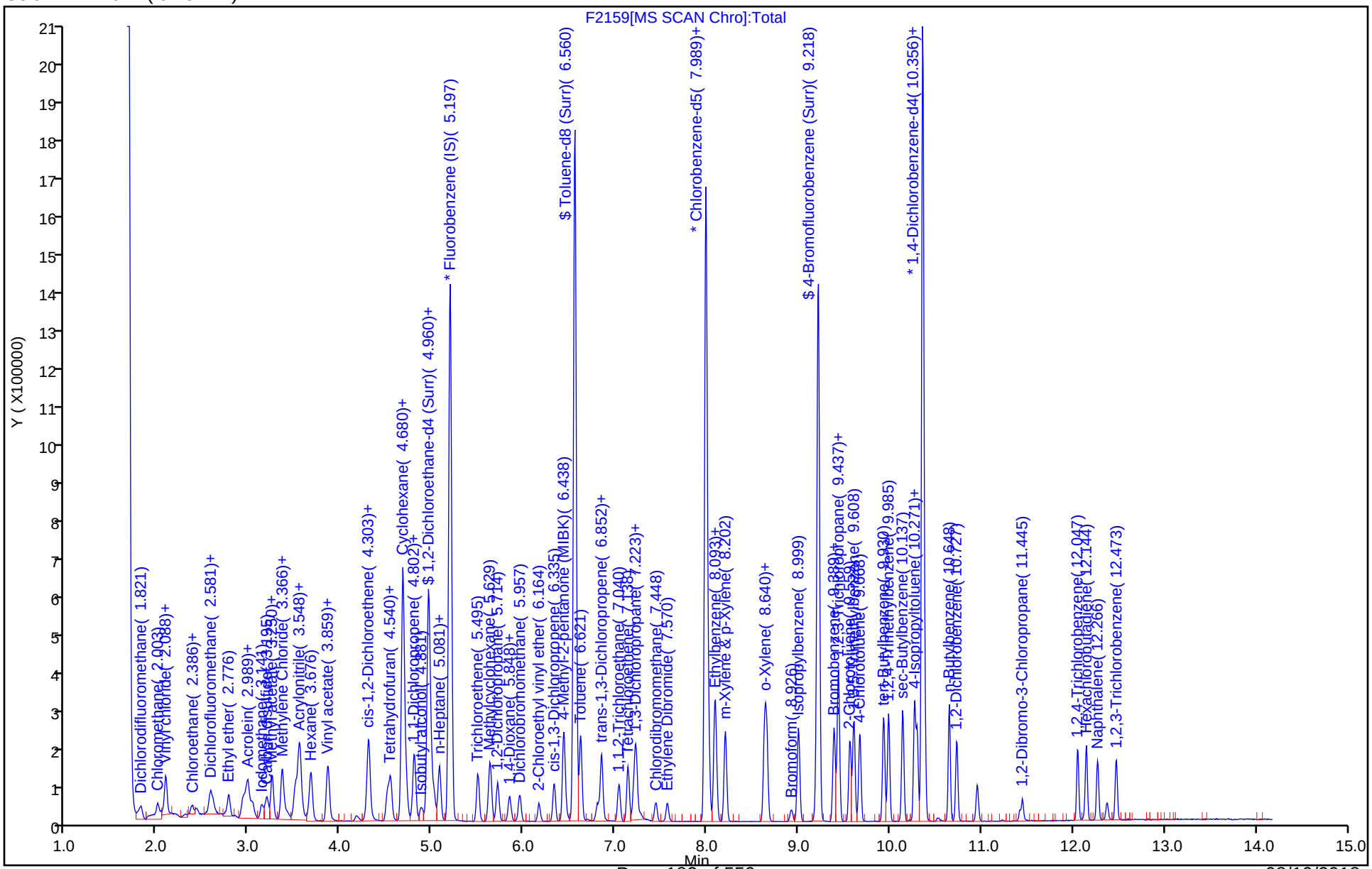
Report Date: 09-May-2018 10:47:03 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D

Injection Date:	08-May-2018 13:33:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

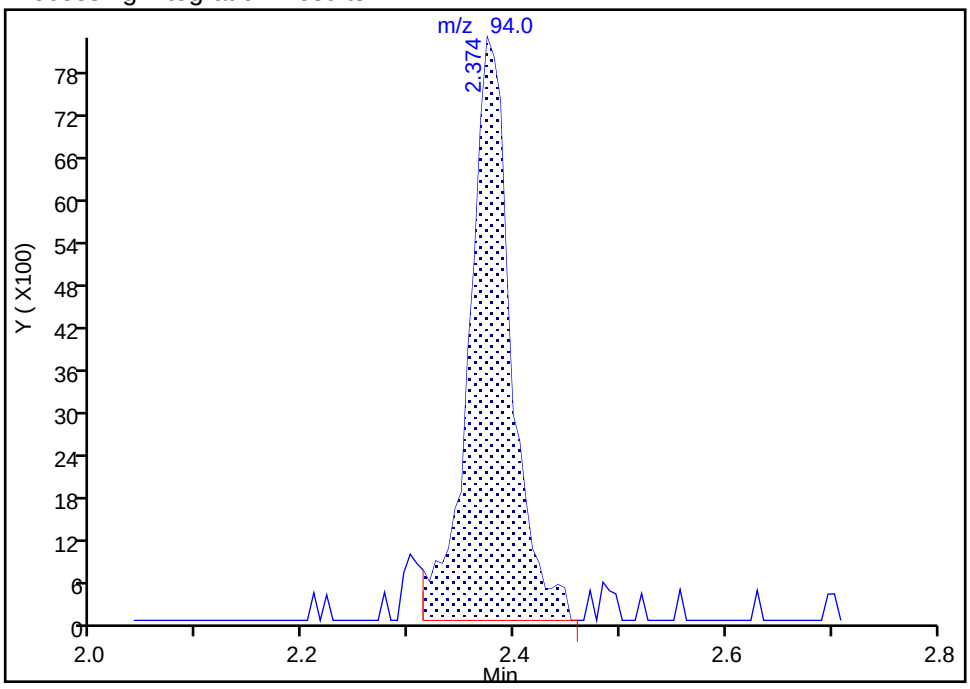
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

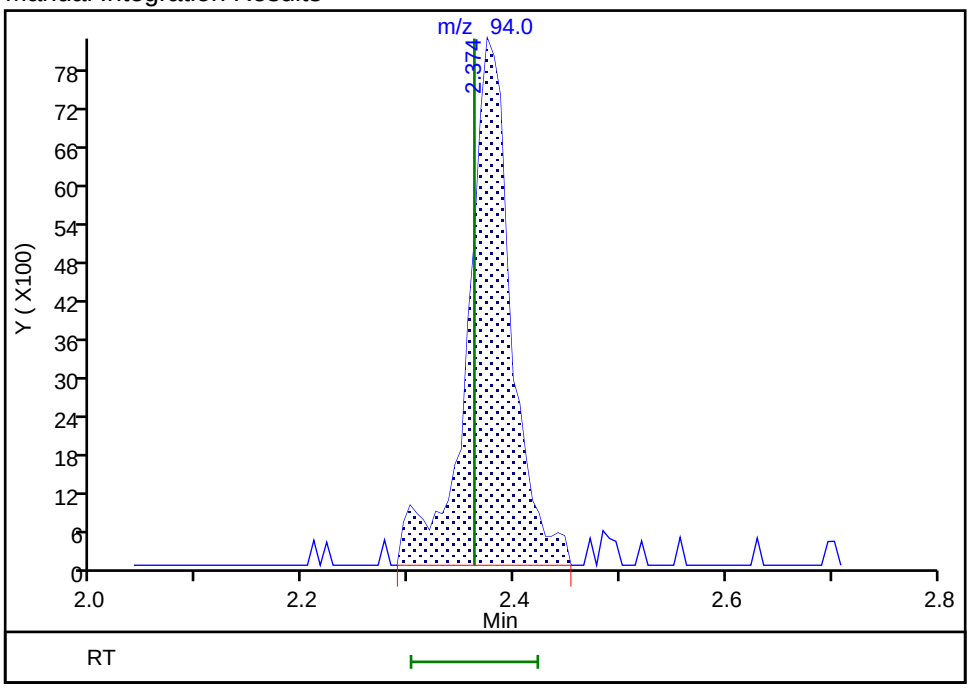
Processing Integration Results

RT: 2.37
Area: 22807
Amount: 5.370111
Amount Units: ug/kg



Manual Integration Results

RT: 2.37
Area: 23689
Amount: 5.502915
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:27
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

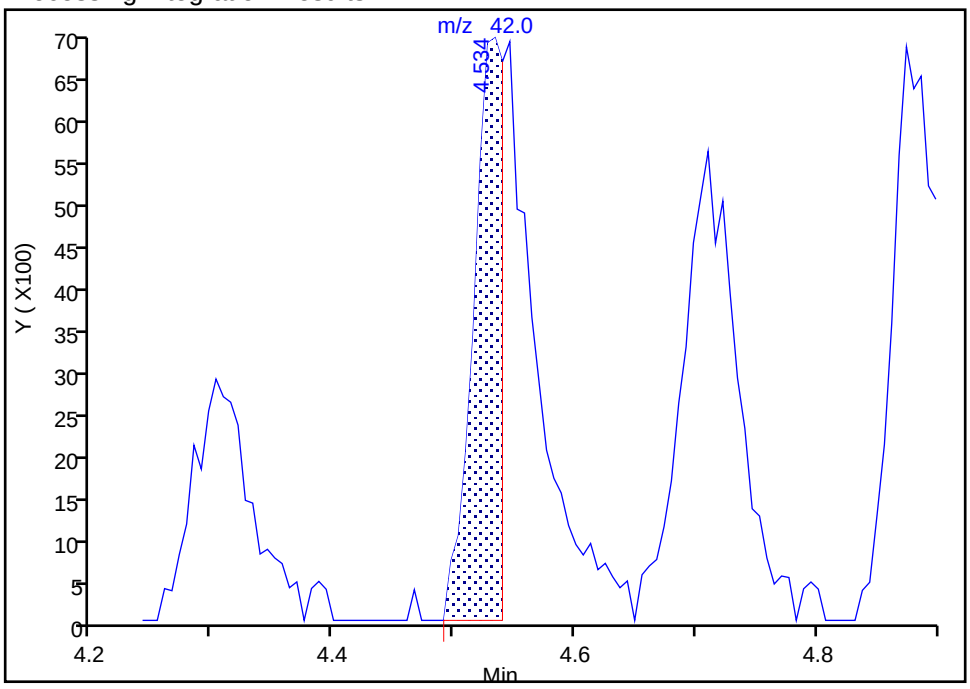
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2159.D
Injection Date: 08-May-2018 13:33:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

49 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

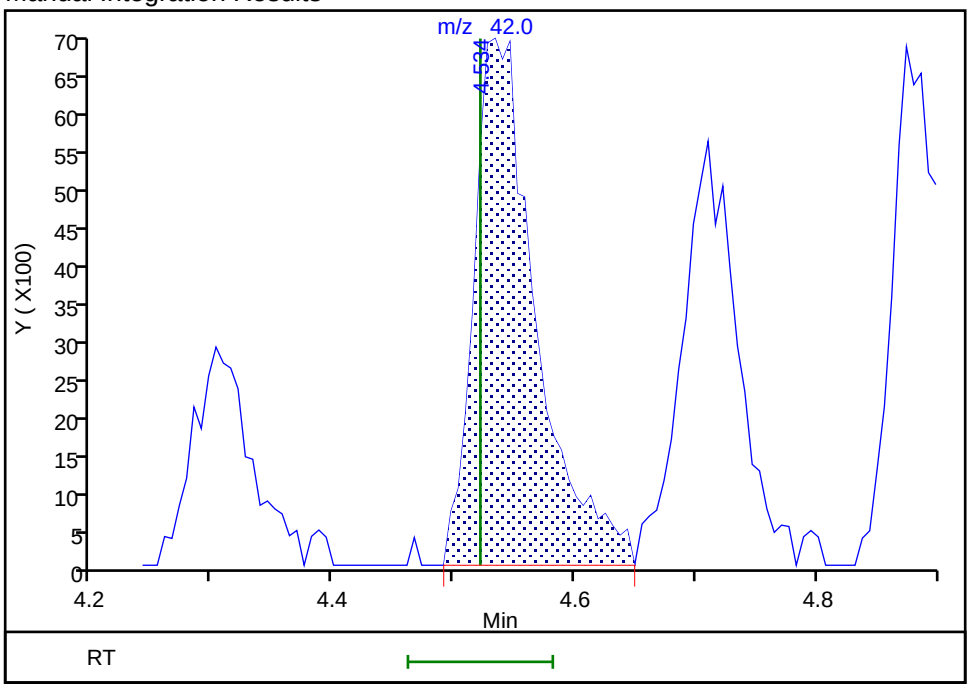
Processing Integration Results

RT: 4.53
Area: 12079
Amount: 2.751326
Amount Units: ug/kg



Manual Integration Results

RT: 4.53
Area: 24742
Amount: 9.805515
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:34:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 08-May-2018 13:59:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0071332-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:07 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:36:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	295601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	611942	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	581296	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	361843	50.0	49.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	237296	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1401827	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	470749	50.0	49.4	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	105330	10.0	11.3	
12 Chloromethane	50	1.997	1.985	0.012	100	82833	10.0	10.9	
13 Vinyl chloride	62	2.082	2.076	0.006	97	84472	10.0	11.3	
151 Butadiene	54	2.082	2.082	0.000	88	95178	10.0	11.5	
14 Bromomethane	94	2.368	2.362	0.006	91	46341	10.0	11.0	
15 Chloroethane	64	2.417	2.417	0.000	99	37289	10.0	11.1	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	106200	10.0	11.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	108956	10.0	11.1	
18 Ethyl ether	59	2.770	2.763	0.007	87	59617	10.0	10.5	
20 Acrolein	56	2.922	2.916	0.006	100	79379	50.0	52.8	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	86228	10.0	11.2	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	84002	10.0	11.0	
23 Acetone	43	3.031	3.025	0.006	100	167072	50.0	53.9	
25 Iodomethane	142	3.129	3.128	0.001	99	148837	10.0	10.9	
26 Carbon disulfide	76	3.189	3.183	0.006	100	270635	10.0	11.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	117597	20.0	20.3	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	133169	10.0	10.9	
30 Methylene Chloride	84	3.354	3.354	0.000	90	131887	10.0	10.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	96196	100.0	106.3	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	283570	10.0	10.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	94079	10.0	10.7	
33 Acrylonitrile	53	3.554	3.548	0.006	99	304693	100.0	104.7	
35 Hexane	57	3.676	3.670	0.006	92	153106	10.0	11.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.853	3.846	0.007	97	341048	20.0	21.0	
39 1,1-Dichloroethane	63	3.865	3.859	0.006	95	160649	10.0	10.7	
43 2-Butanone (MEK)	43	4.297	4.290	0.007	98	212748	50.0	52.7	
44 2,2-Dichloropropane	77	4.297	4.290	0.007	73	138488	10.0	10.7	
45 cis-1,2-Dichloroethene	96	4.309	4.303	0.006	82	102786	10.0	10.6	
48 Chlorobromomethane	128	4.510	4.503	0.007	95	48262	10.0	10.6	
49 Tetrahydrofuran	42	4.534	4.522	0.012	84	51417	20.0	20.8	
50 Chloroform	83	4.546	4.540	0.006	93	168110	10.0	10.7	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	95	143290	10.0	10.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	149969	10.0	11.1	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	95	135631	10.0	10.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	118417	10.0	10.6	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	92881	250.0	245.9	
57 Benzene	78	4.984	4.978	0.006	96	370070	10.0	10.9	
58 1,2-Dichloroethane	62	5.021	5.014	0.007	97	137370	10.0	10.6	
59 n-Heptane	43	5.075	5.075	0.000	90	144320	10.0	10.8	
62 Trichloroethene	95	5.495	5.495	0.000	97	98482	10.0	10.8	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	175476	10.0	11.0	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	84064	10.0	10.6	
66 1,4-Dioxane	88	5.830	5.817	0.013	91	19287	200.0	211.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	56360	10.0	10.4	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	113083	10.0	10.2	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	51220	10.0	10.5	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	138801	10.0	10.3	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.432	0.006	95	418620	50.0	53.9	
74 Toluene	92	6.621	6.620	0.001	99	235124	10.0	10.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	132381	10.0	10.3	
75 Ethyl methacrylate	69	6.852	6.852	0.000	90	113419	10.0	10.2	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	65178	10.0	10.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	106454	10.0	10.8	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	91	138230	10.0	10.5	
80 2-Hexanone	43	7.223	7.217	0.006	96	321433	50.0	53.0	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	72801	10.0	9.37	
84 Ethylene Dibromide	107	7.570	7.563	0.007	99	81911	10.0	10.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	255717	10.0	10.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	432718	10.0	11.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	80719	10.0	10.5	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	178145	10.0	10.7	
91 o-Xylene	106	8.628	8.628	0.000	97	164273	10.0	10.6	
92 Styrene	104	8.652	8.652	0.000	95	288535	10.0	10.7	
95 Bromoform	173	8.926	8.920	0.006	96	43312	10.0	8.58	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	425966	10.0	11.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	76	101118	10.0	10.6	
101 Bromobenzene	156	9.389	9.388	0.001	93	112972	10.0	10.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	62	33091	10.0	10.5	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	500735	10.0	11.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	83	35007	10.0	10.7	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	103590	10.0	11.0	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	93	363718	10.0	11.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	110013	10.0	10.8	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	82525	10.0	11.0	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	370634	10.0	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	469677	10.0	11.4	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	395629	10.0	11.3	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	211139	10.0	10.8	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	216510	10.0	10.8	
115 n-Butylbenzene	91	10.648	10.648	0.000	98	353712	10.0	11.2	
116 1,2-Dichlorobenzene	146	10.733	10.727	0.006	97	196462	10.0	10.9	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	82	18057	10.0	9.82	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	131691	10.0	11.0	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	82232	10.0	11.4	
121 Naphthalene	128	12.266	12.266	0.000	97	305790	10.0	10.9	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	122240	10.0	11.1	
S 125 1,2-Dichloroethene, Total	1				0			21.4	
S 126 1,3-Dichloropropene, Total	1				0			20.6	
S 123 Total BTEX	1				0			53.9	
S 124 Xylenes, Total	1				0			21.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

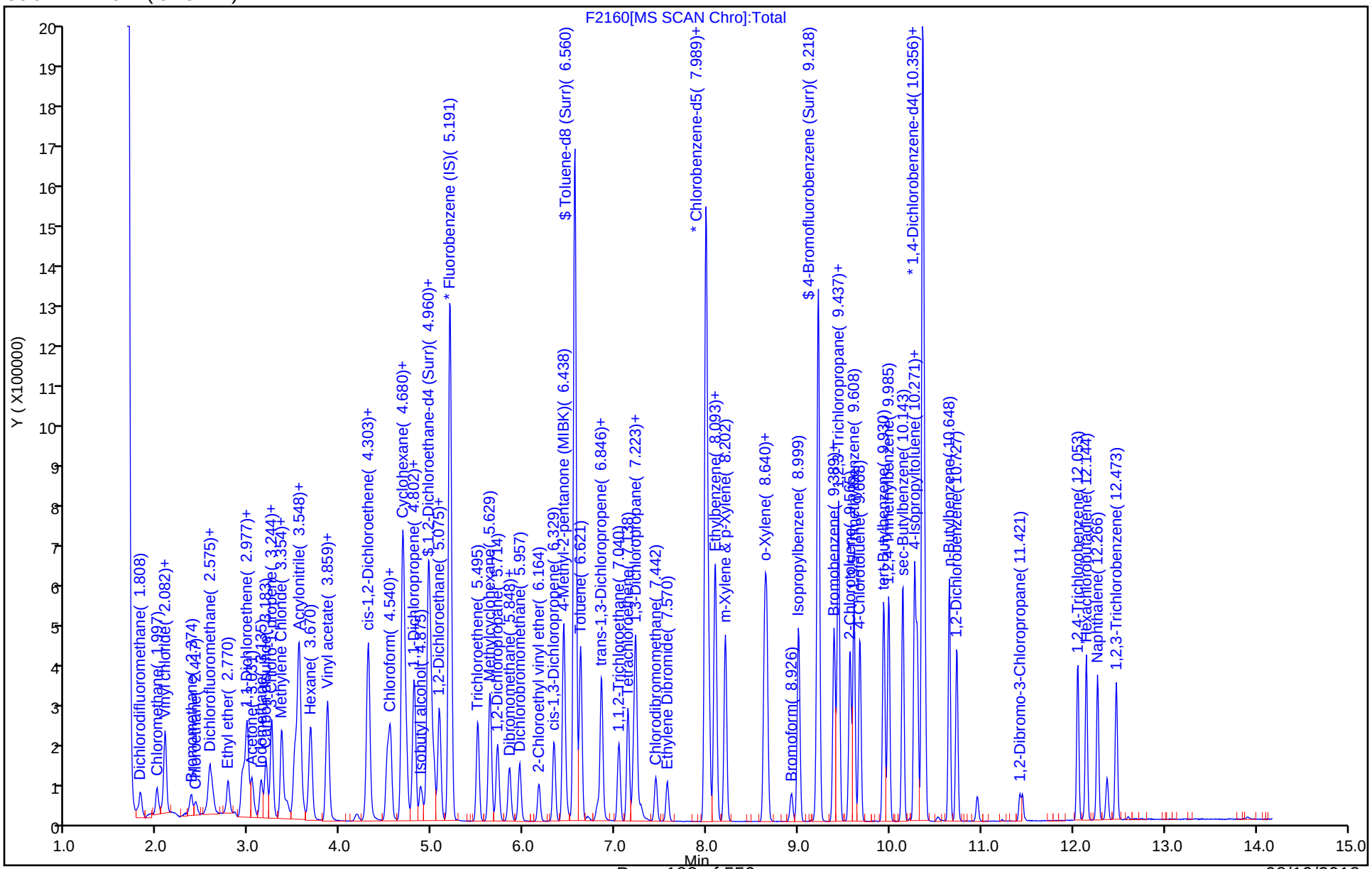
Report Date: 09-May-2018 10:47:10 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D

Injection Date:	08-May-2018 13:59:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

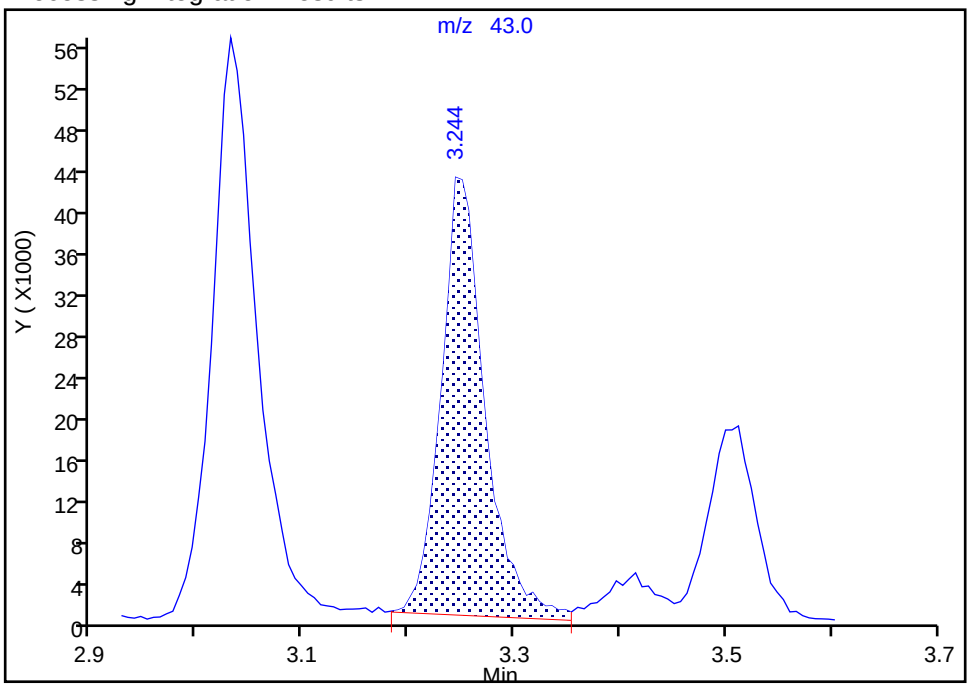
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

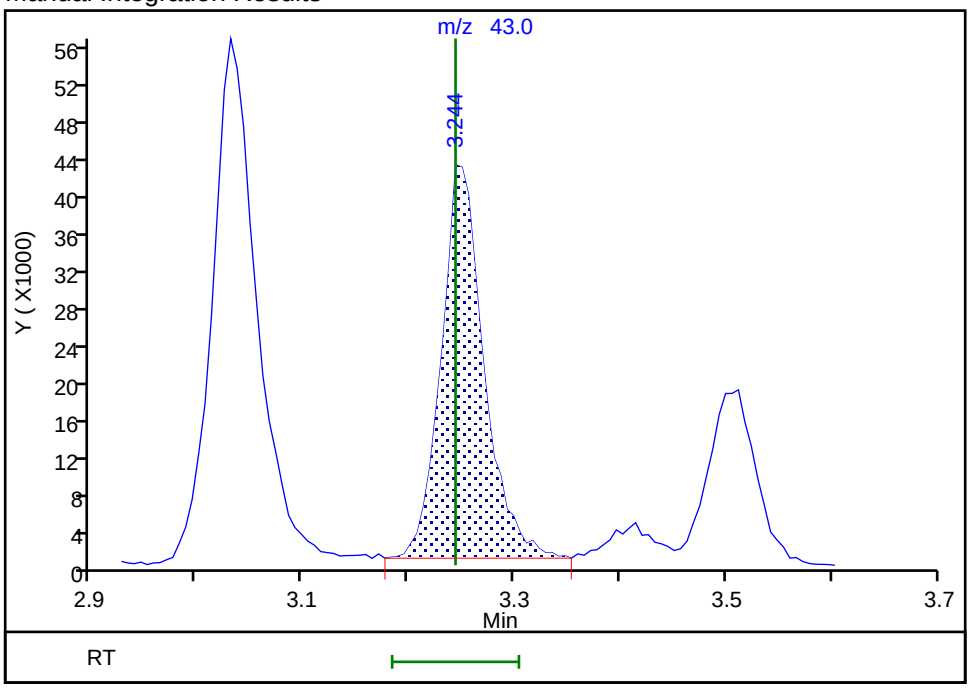
Processing Integration Results

RT: 3.24
Area: 121822
Amount: 20.488921
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 117597
Amount: 20.310834
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:15
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

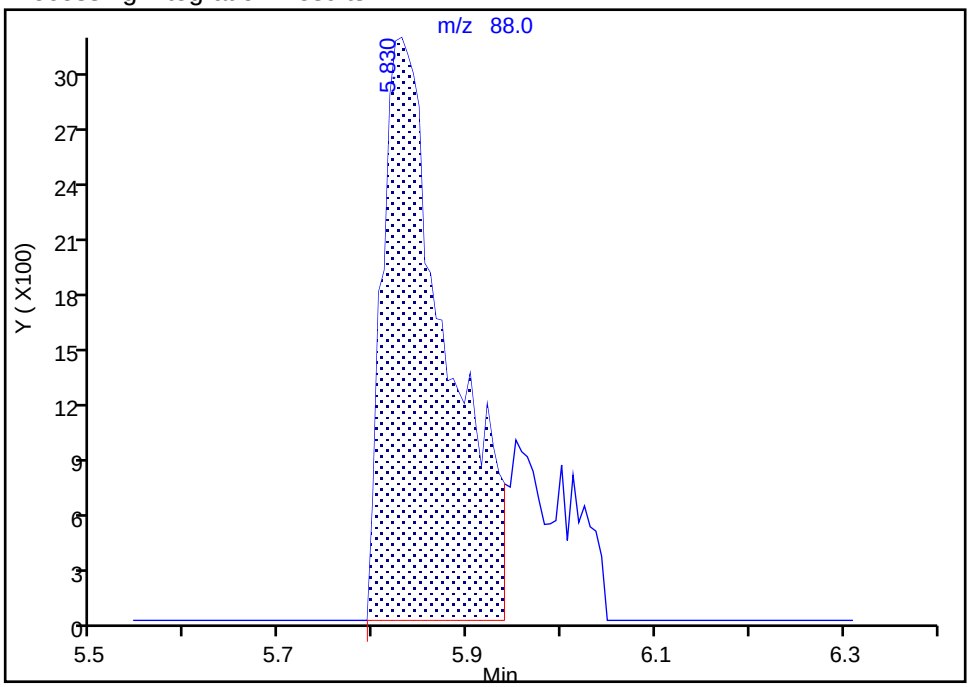
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2160.D
Injection Date: 08-May-2018 13:59:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

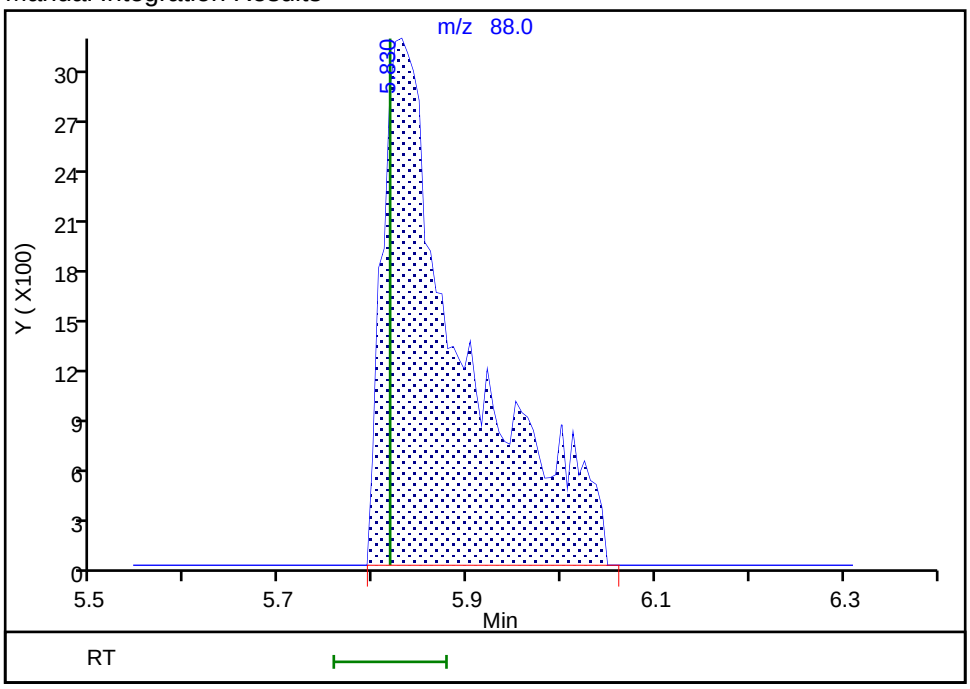
Processing Integration Results

RT: 5.83
Area: 15196
Amount: 191.9682
Amount Units: ug/kg



Manual Integration Results

RT: 5.83
Area: 19287
Amount: 211.8551
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:36:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-May-2018 14:25:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0071332-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:13 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:38:26

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.197	-0.006	99	310271	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	634069	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	612168	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	379363	50.0	49.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	99	245754	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1464478	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	489515	50.0	49.5	
10 Dichlorodifluoromethane	85	1.815	1.808	0.007	99	206475	20.0	21.1	
12 Chloromethane	50	1.991	1.985	0.006	99	166326	20.0	20.8	M
13 Vinyl chloride	62	2.082	2.076	0.006	97	163031	20.0	20.8	
151 Butadiene	54	2.082	2.082	0.000	92	182936	20.0	21.0	
14 Bromomethane	94	2.368	2.362	0.006	90	90326	20.0	20.4	
15 Chloroethane	64	2.417	2.417	0.000	99	72955	20.0	20.6	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	197200	20.0	20.7	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	214653	20.0	20.8	
18 Ethyl ether	59	2.770	2.763	0.007	87	129494	20.0	21.6	
20 Acrolein	56	2.922	2.916	0.006	99	170914	100.0	108.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	169969	20.0	21.1	
22 1,1-Dichloroethene	96	2.977	2.976	0.000	98	168177	20.0	21.0	
23 Acetone	43	3.031	3.025	0.006	100	352639	100.0	108.3	
25 Iodomethane	142	3.129	3.128	0.001	99	299322	20.0	20.9	
26 Carbon disulfide	76	3.183	3.183	0.000	100	544294	20.0	21.0	
27 Methyl acetate	43	3.244	3.244	0.000	80	262706	40.0	43.2	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	86	263471	20.0	20.6	
30 Methylene Chloride	84	3.354	3.354	0.000	90	225835	20.0	20.9	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	100	208452	200.0	219.4	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	582644	20.0	20.9	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	187099	20.0	20.3	
33 Acrylonitrile	53	3.554	3.548	0.006	99	660754	200.0	216.4	
35 Hexane	57	3.670	3.670	0.000	91	296489	20.0	20.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	724214	40.0	42.5	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	322652	20.0	20.5	
43 2-Butanone (MEK)	43	4.291	4.290	0.001	98	468442	100.0	110.5	
44 2,2-Dichloropropane	77	4.291	4.290	0.001	88	282513	20.0	20.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	80	207216	20.0	20.4	
48 Chlorobromomethane	128	4.510	4.503	0.007	90	97304	20.0	20.3	
49 Tetrahydrofuran	42	4.528	4.522	0.006	84	114020	40.0	44.0	
50 Chloroform	83	4.540	4.540	0.000	94	334961	20.0	20.3	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	289982	20.0	20.7	
52 Cyclohexane	56	4.710	4.704	0.006	88	293518	20.0	20.8	
54 1,1-Dichloropropene	75	4.802	4.795	0.007	96	269214	20.0	20.7	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	240591	20.0	20.4	
53 Isobutyl alcohol	43	4.869	4.862	0.006	93	216612	500.0	546.4	
57 Benzene	78	4.984	4.978	0.006	97	738740	20.0	20.7	
58 1,2-Dichloroethane	62	5.015	5.014	0.000	97	277563	20.0	20.4	
59 n-Heptane	43	5.075	5.075	0.000	88	285334	20.0	20.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	194597	20.0	20.4	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	350475	20.0	20.9	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	169875	20.0	20.3	
66 1,4-Dioxane	88	5.824	5.817	0.007	93	40837	400.0	432.9	M
67 Dibromomethane	93	5.842	5.842	0.000	95	118746	20.0	20.9	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	237447	20.0	20.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	106449	20.0	20.8	
72 cis-1,3-Dichloropropene	75	6.329	6.328	0.001	95	289513	20.0	20.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	910358	100.0	113.1	
74 Toluene	92	6.621	6.620	0.001	99	467633	20.0	20.6	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	98	273052	20.0	20.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	240938	20.0	21.0	
79 1,1,2-Trichloroethane	83	7.034	7.040	-0.006	93	134553	20.0	20.8	
81 Tetrachloroethene	166	7.144	7.138	0.006	97	211396	20.0	20.7	
82 1,3-Dichloropropane	76	7.205	7.204	0.001	97	285150	20.0	20.8	
80 2-Hexanone	43	7.223	7.217	0.006	97	726871	100.0	115.6	
83 Chlorodibromomethane	129	7.442	7.442	0.000	89	161803	20.0	20.1	
84 Ethylene Dibromide	107	7.564	7.563	0.001	99	171502	20.0	20.8	
87 Chlorobenzene	112	8.020	8.020	0.000	96	511957	20.0	20.8	
88 Ethylbenzene	91	8.087	8.087	0.000	98	859703	20.0	21.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	92	164796	20.0	20.7	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	353316	20.0	20.6	
91 o-Xylene	106	8.628	8.628	0.000	96	330183	20.0	20.5	
92 Styrene	104	8.652	8.652	0.000	94	579043	20.0	20.6	
95 Bromoform	173	8.920	8.920	0.000	96	100445	20.0	19.2	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	843949	20.0	21.1	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.001	77	215385	20.0	21.4	
101 Bromobenzene	156	9.389	9.388	0.001	93	226633	20.0	20.6	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.431	0.006	60	71882	20.0	21.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	993856	20.0	21.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	72575	20.0	21.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	206762	20.0	20.8	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	726292	20.0	21.1	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	221628	20.0	20.6	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	162753	20.0	20.7	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	743593	20.0	21.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	94	923130	20.0	21.3	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	97	785245	20.0	21.3	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	97	425814	20.0	20.7	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	431504	20.0	20.5	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	711785	20.0	21.4	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	392276	20.0	20.7	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.414	0.007	84	40957	20.0	21.2	
119 1,2,4-Trichlorobenzene	180	12.053	12.047	0.006	94	263952	20.0	20.9	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	161308	20.0	21.2	
121 Naphthalene	128	12.266	12.266	0.000	97	649744	20.0	22.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	94	242674	20.0	20.9	
S 125 1,2-Dichloroethene, Total	1				0			40.7	
S 126 1,3-Dichloropropene, Total	1				0			41.0	
S 123 Total BTEX	1				0			103.3	
S 124 Xylenes, Total	1				0			41.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 10.00	Units: uL	
GAS CORP mix_00280	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

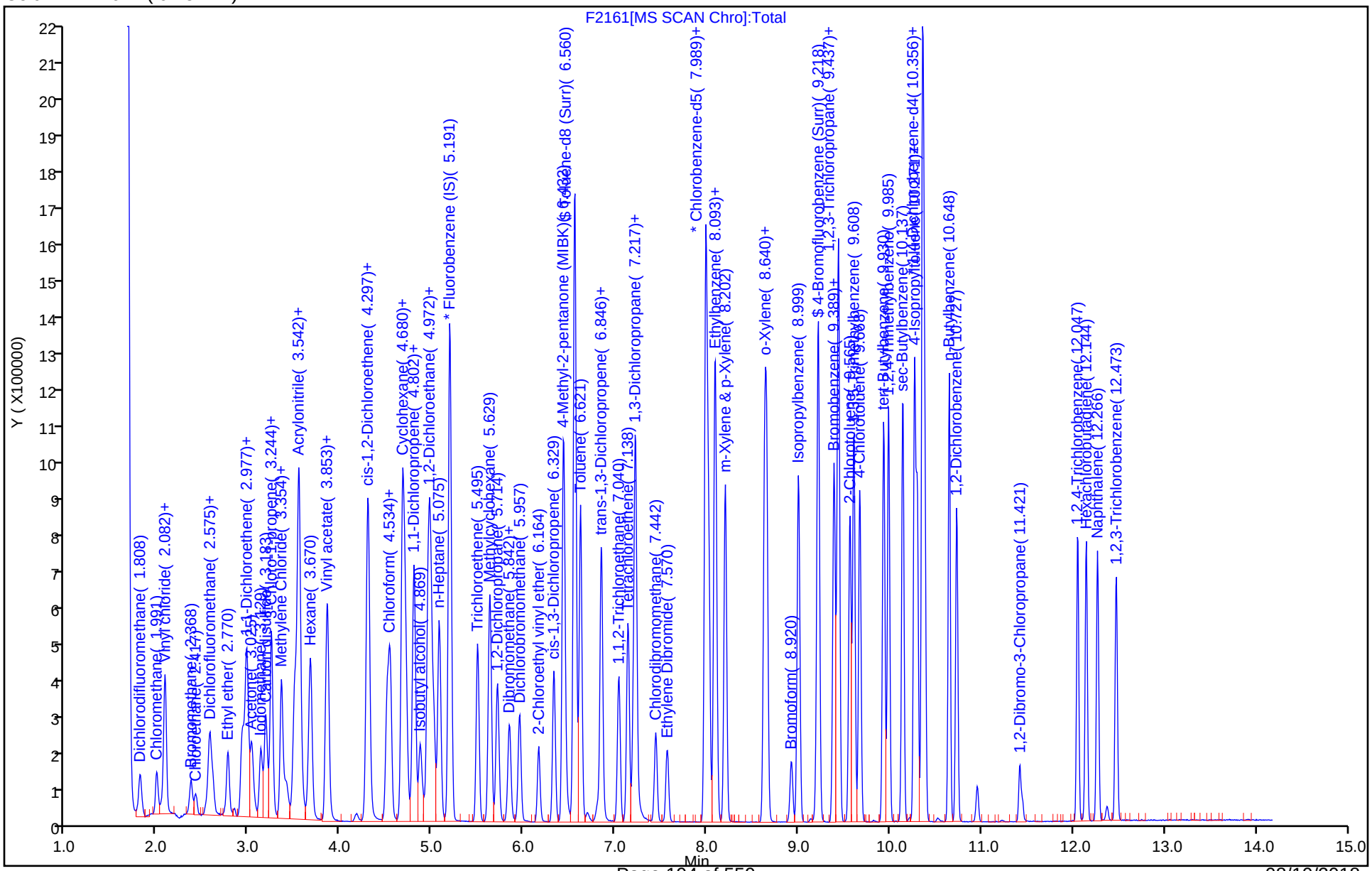
Report Date: 09-May-2018 10:47:18 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D

Injection Date:	08-May-2018 14:25:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

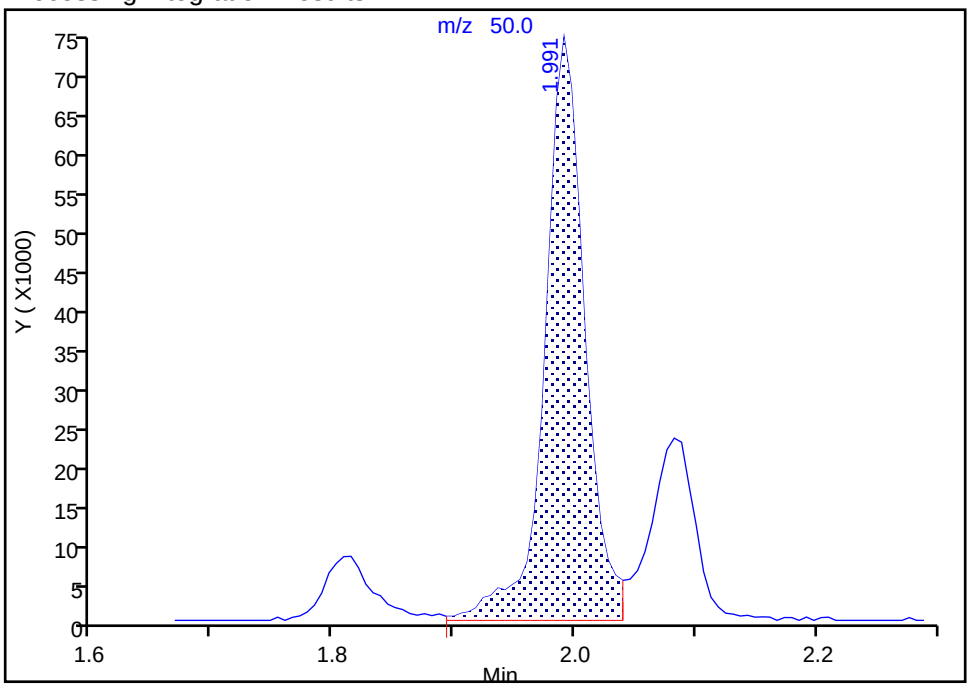
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

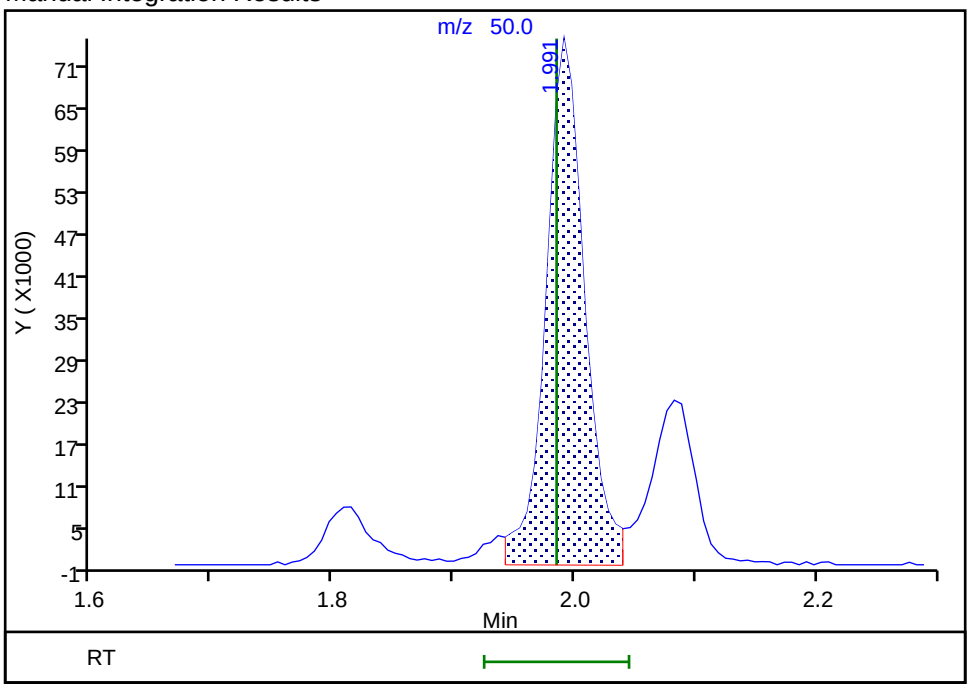
Processing Integration Results

RT: 1.99
Area: 171444
Amount: 21.356586
Amount Units: ug/kg



Manual Integration Results

RT: 1.99
Area: 166326
Amount: 20.813826
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:22
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

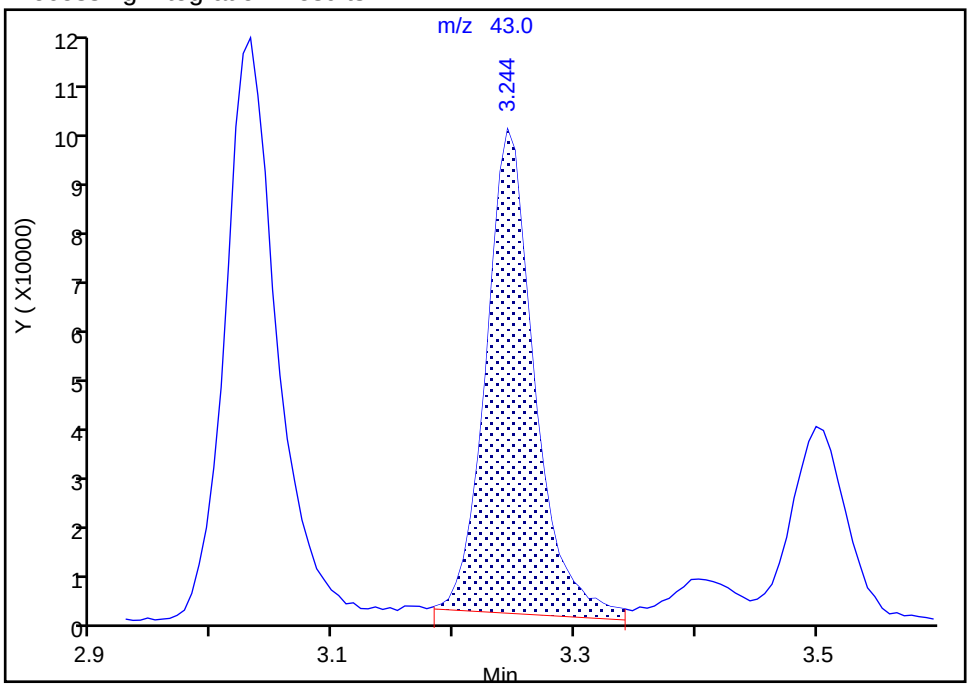
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

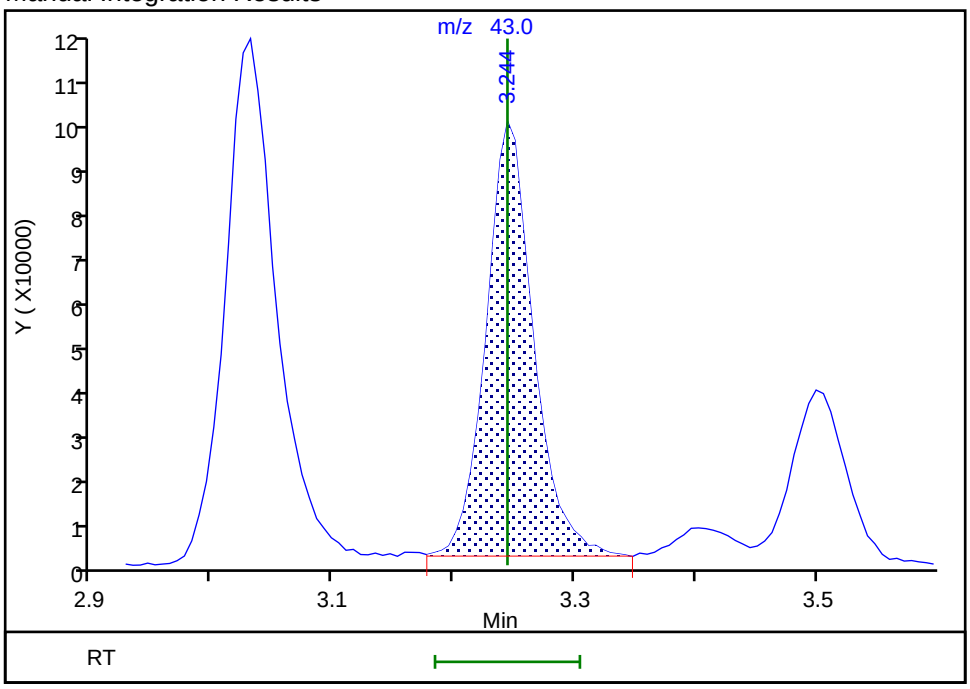
Processing Integration Results

RT: 3.24
Area: 270991
Amount: 43.643834
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 262706
Amount: 43.228108
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:37:44
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

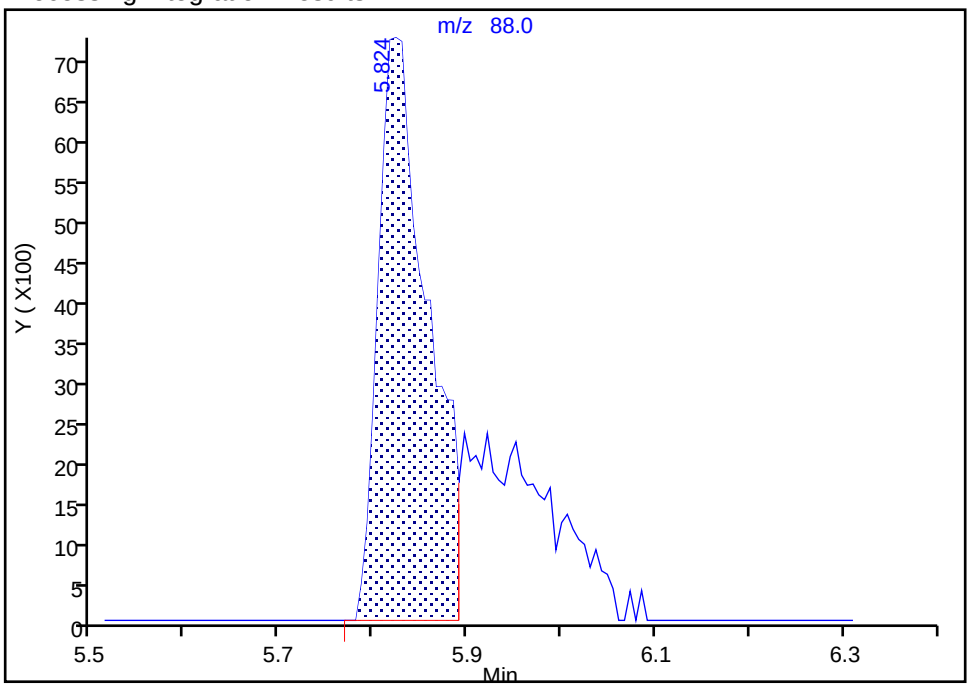
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2161.D
Injection Date: 08-May-2018 14:25:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

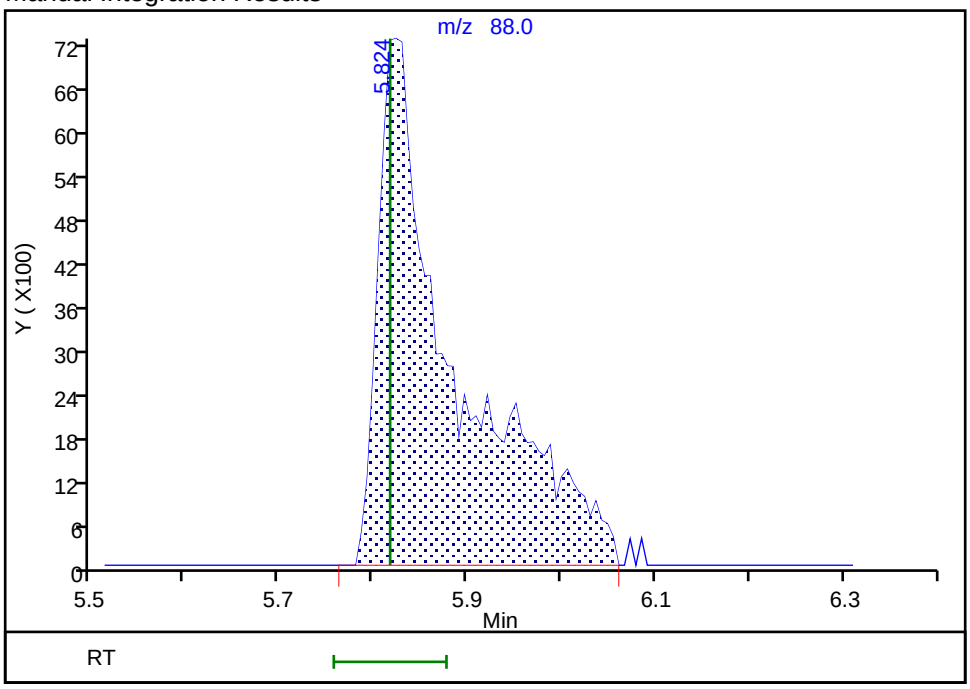
Processing Integration Results

RT: 5.82
Area: 26408
Amount: 296.9586
Amount Units: ug/kg



Manual Integration Results

RT: 5.82
Area: 40837
Amount: 432.9143
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:38:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 08-May-2018 14:50:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0071332-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:21 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:20:19

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.191	5.191	0.000	99	317300	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	641190	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	635410	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	383697	50.0	49.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	98	247352	50.0	49.1	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	94	1487663	50.0	50.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	502957	50.0	50.3	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	506261	50.0	50.5	
12 Chloromethane	50	1.985	1.985	0.000	99	394187	50.0	48.2	
13 Vinyl chloride	62	2.076	2.076	0.000	97	389073	50.0	48.6	
151 Butadiene	54	2.082	2.082	0.000	89	423068	50.0	47.6	
14 Bromomethane	94	2.362	2.362	0.000	91	213610	50.0	47.3	
15 Chloroethane	64	2.417	2.417	0.000	100	170887	50.0	47.2	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	473505	50.0	48.6	
17 Trichlorofluoromethane	101	2.593	2.593	0.000	98	523065	50.0	49.6	
18 Ethyl ether	59	2.763	2.763	0.000	87	280286	50.0	45.8	
20 Acrolein	56	2.916	2.916	0.000	100	356028	250.0	220.5	
21 1,1,2-Trichloro-1,2,2-trif	101	2.952	2.952	0.000	93	402106	50.0	48.8	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	98	395634	50.0	48.3	
23 Acetone	43	3.025	3.025	0.000	99	722105	250.0	216.8	
25 Iodomethane	142	3.128	3.128	0.000	100	725238	50.0	49.4	
26 Carbon disulfide	76	3.183	3.183	0.000	99	1323471	50.0	50.0	
27 Methyl acetate	43	3.244	3.244	0.000	73	573139	100.0	92.2	
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	646522	50.0	49.4	
30 Methylene Chloride	84	3.354	3.354	0.000	91	486638	50.0	50.4	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	412929	500.0	424.9	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	1359349	50.0	47.6	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	457275	50.0	48.5	
33 Acrylonitrile	53	3.548	3.548	0.000	98	1419339	500.0	454.5	
35 Hexane	57	3.670	3.670	0.000	92	715625	50.0	48.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	1692385	100.0	97.2	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	787529	50.0	48.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	97	980697	250.0	226.3	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	72	684267	50.0	49.3	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	504389	50.0	48.7	
48 Chlorobromomethane	128	4.503	4.503	0.000	93	237384	50.0	48.4	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	232108	100.0	87.7	
50 Chloroform	83	4.540	4.540	0.000	93	810041	50.0	48.0	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	98	704160	50.0	49.2	
52 Cyclohexane	56	4.704	4.704	0.000	88	706363	50.0	48.9	
54 1,1-Dichloropropene	75	4.795	4.795	0.000	97	651263	50.0	48.9	
55 Carbon tetrachloride	117	4.808	4.808	0.000	98	613133	50.0	50.9	
53 Isobutyl alcohol	43	4.862	4.862	0.000	94	453518	1250.0	1118.6	
57 Benzene	78	4.978	4.978	0.000	97	1782362	50.0	48.8	
58 1,2-Dichloroethane	62	5.014	5.014	0.000	97	662378	50.0	47.5	
59 n-Heptane	43	5.075	5.075	0.000	88	694204	50.0	48.4	
62 Trichloroethene	95	5.495	5.495	0.000	97	472358	50.0	48.5	
64 Methylcyclohexane	83	5.629	5.629	0.000	88	842987	50.0	49.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	417075	50.0	48.8	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	90905	1000.0	953.0	
67 Dibromomethane	93	5.842	5.842	0.000	94	280274	50.0	48.2	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	601975	50.0	50.7	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	254924	50.0	48.6	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	95	725446	50.0	50.1	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	95	1916594	250.0	235.4	
74 Toluene	92	6.620	6.620	0.000	99	1141602	50.0	49.7	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	95	691569	50.0	51.4	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	575124	50.0	49.5	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	317622	50.0	48.6	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	513159	50.0	49.7	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	683791	50.0	49.4	
80 2-Hexanone	43	7.217	7.217	0.000	94	1527085	250.0	240.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	423837	50.0	52.1	
84 Ethylene Dibromide	107	7.563	7.563	0.000	99	410248	50.0	49.3	
87 Chlorobenzene	112	8.020	8.020	0.000	94	1234720	50.0	49.7	
88 Ethylbenzene	91	8.087	8.087	0.000	98	2068503	50.0	50.0	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	93	417123	50.0	51.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	866603	50.0	49.9	
91 o-Xylene	106	8.628	8.628	0.000	96	808767	50.0	49.7	
92 Styrene	104	8.652	8.652	0.000	94	1434229	50.0	50.5	
95 Bromoform	173	8.920	8.920	0.000	96	275817	50.0	52.1	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	2047429	50.0	49.4	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	76	490044	50.0	47.0	
101 Bromobenzene	156	9.388	9.388	0.000	93	553615	50.0	48.4	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	57	167640	50.0	48.9	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2379752	50.0	49.2	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	79	164888	50.0	46.1	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	505881	50.0	49.1	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	1774197	50.0	49.7	
105 4-Chlorotoluene	126	9.668	9.668	0.000	98	549425	50.0	49.3	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	401791	50.0	49.2	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1815784	50.0	49.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.137	10.137	0.000	95	2229369	50.0	49.7	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	1916976	50.0	50.0	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	1049816	50.0	49.3	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	1069081	50.0	48.9	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1725818	50.0	49.9	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	954818	50.0	48.6	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	86	96205	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	637529	50.0	48.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	384742	50.0	48.8	
121 Naphthalene	128	12.266	12.266	0.000	97	1501140	50.0	49.1	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	585229	50.0	48.5	

Reagents:

F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent
8260 CORP mix_00125	Amount Added: 25.00	Units: uL	
GAS CORP mix_00280	Amount Added: 25.00	Units: uL	

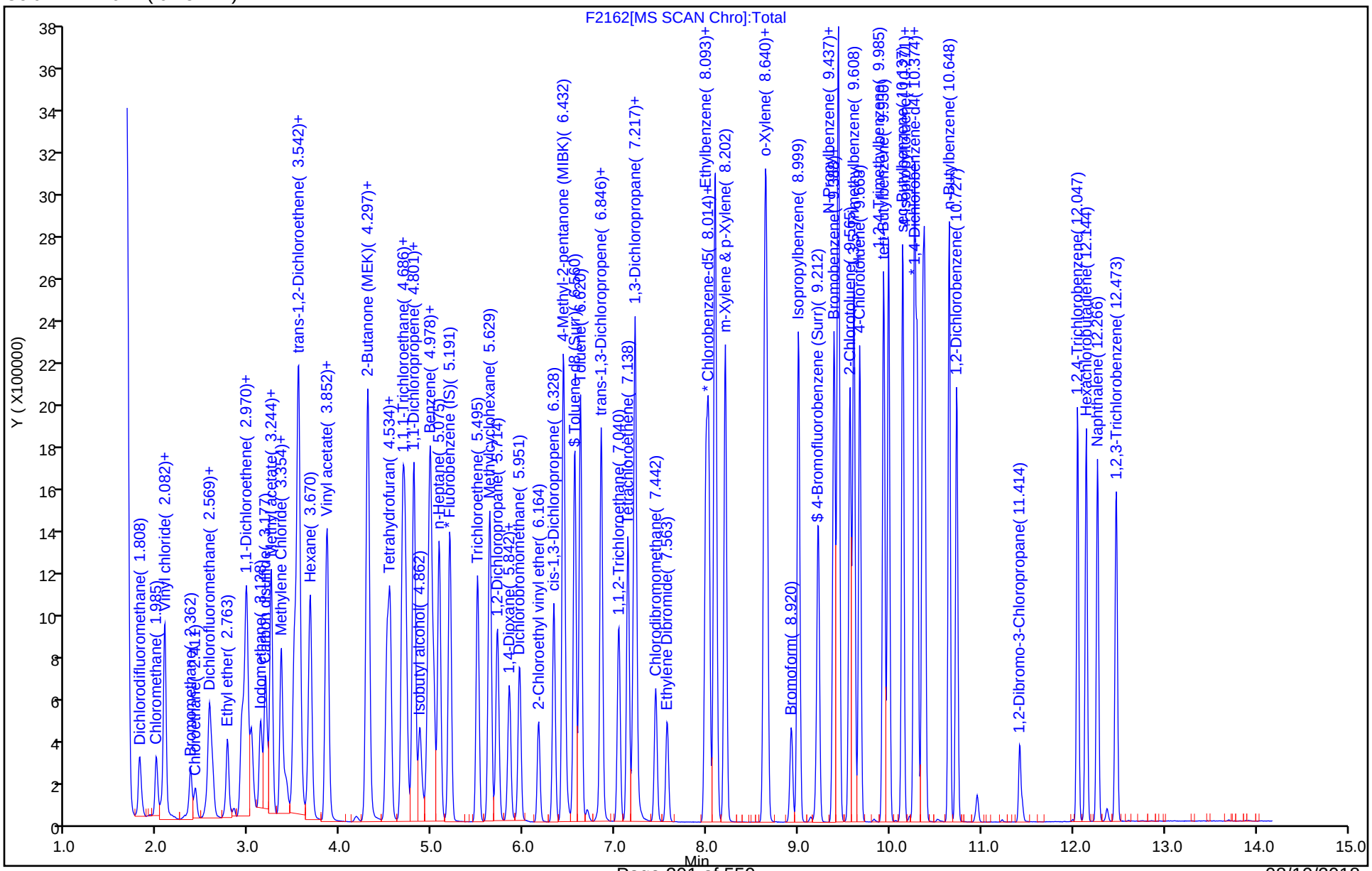
Report Date: 09-May-2018 10:47:24 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2162.D

Injection Date:	08-May-2018 14:50:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-May-2018 15:15:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0071332-011
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:27 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:40:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	320803	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	657089	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	664347	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	398932	50.0	50.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.954	4.954	0.000	95	258094	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1529884	50.0	50.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	521062	50.0	50.9	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	970484	100.0	95.8	
12 Chloromethane	50	1.991	1.985	0.006	99	760112	100.0	92.0	
13 Vinyl chloride	62	2.082	2.076	0.006	98	735842	100.0	90.9	
151 Butadiene	54	2.088	2.082	0.006	89	770039	100.0	85.6	
14 Bromomethane	94	2.362	2.362	0.000	90	395241	100.0	86.5	M
15 Chloroethane	64	2.417	2.417	0.000	99	308882	100.0	84.4	
16 Dichlorofluoromethane	67	2.569	2.569	0.000	97	878377	100.0	89.1	
17 Trichlorofluoromethane	101	2.599	2.593	0.006	98	959534	100.0	89.9	
18 Ethyl ether	59	2.763	2.763	0.000	86	547110	100.0	88.4	
20 Acrolein	56	2.922	2.916	0.006	100	828749	500.0	507.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.958	2.952	0.006	93	792353	100.0	95.0	
22 1,1-Dichloroethene	96	2.976	2.976	0.000	99	773145	100.0	93.4	
23 Acetone	43	3.025	3.025	0.000	100	1728336	500.0	513.3	
25 Iodomethane	142	3.128	3.128	0.000	100	1438044	100.0	97.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	2575399	100.0	96.3	
27 Methyl acetate	43	3.244	3.244	0.000	97	1332522	200.0	212.1	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	85	1254658	100.0	94.8	
30 Methylene Chloride	84	3.354	3.354	0.000	90	944214	100.0	102.0	
31 2-Methyl-2-propanol	59	3.402	3.402	0.000	100	1117217	1000.0	1137.1	
32 Methyl tert-butyl ether	73	3.500	3.500	0.000	94	2877699	100.0	99.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	99	906313	100.0	95.1	
33 Acrylonitrile	53	3.548	3.548	0.000	98	3233654	1000.0	1024.2	
35 Hexane	57	3.670	3.670	0.000	91	1379552	100.0	91.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.846	3.846	0.000	97	3563205	200.0	202.3	
39 1,1-Dichloroethane	63	3.859	3.859	0.000	96	1563343	100.0	95.9	
43 2-Butanone (MEK)	43	4.290	4.290	0.000	98	2352803	500.0	536.9	
44 2,2-Dichloropropane	77	4.290	4.290	0.000	88	1347299	100.0	95.9	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	79	991447	100.0	94.6	
48 Chlorobromomethane	128	4.503	4.503	0.000	89	489249	100.0	98.6	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	573450	200.0	214.2	
50 Chloroform	83	4.540	4.540	0.000	93	1613060	100.0	94.6	
51 1,1,1-Trichloroethane	97	4.680	4.680	0.000	97	1395790	100.0	96.5	
52 Cyclohexane	56	4.710	4.704	0.006	88	1378722	100.0	94.3	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	97	1278846	100.0	95.0	
55 Carbon tetrachloride	117	4.808	4.808	0.000	97	1243420	100.0	102.1	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	1196074	2500.0	2917.8	
57 Benzene	78	4.984	4.978	0.006	96	3480851	100.0	94.2	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	97	1357413	100.0	96.3	
59 n-Heptane	43	5.075	5.075	0.000	88	1327032	100.0	91.5	
62 Trichloroethene	95	5.495	5.495	0.000	98	932749	100.0	94.6	
64 Methylcyclohexane	83	5.629	5.629	0.000	87	1652250	100.0	95.1	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	92	833564	100.0	96.5	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	218431	2000.0	2234.5	
67 Dibromomethane	93	5.842	5.842	0.000	95	588328	100.0	100.0	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	1249367	100.0	104.0	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	551747	100.0	104.0	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	1482439	100.0	101.3	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	93	4269190	500.0	511.6	
74 Toluene	92	6.620	6.620	0.000	99	2239990	100.0	95.2	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	97	1441202	100.0	104.5	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	1261468	100.0	105.9	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	665976	100.0	99.5	
81 Tetrachloroethene	166	7.138	7.138	0.000	97	1007514	100.0	95.2	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	1412885	100.0	99.7	
80 2-Hexanone	43	7.223	7.217	0.006	92	3363984	500.0	516.4	
83 Chlorodibromomethane	129	7.442	7.442	0.000	91	931528	100.0	111.7	
84 Ethylene Dibromide	107	7.563	7.563	0.000	98	874036	100.0	102.5	
87 Chlorobenzene	112	8.020	8.020	0.000	94	2424875	100.0	95.2	
88 Ethylbenzene	91	8.087	8.087	0.000	98	3953899	100.0	93.2	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	869371	100.0	105.6	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	98	1703198	100.0	95.6	
91 o-Xylene	106	8.628	8.628	0.000	95	1621772	100.0	97.3	
92 Styrene	104	8.652	8.652	0.000	94	2859737	100.0	98.3	
95 Bromoform	173	8.920	8.920	0.000	96	653783	100.0	120.6	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	3954109	100.0	91.2	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.388	0.000	79	1084375	100.0	99.4	
101 Bromobenzene	156	9.389	9.388	0.000	92	1122268	100.0	93.9	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	61	372857	100.0	104.0	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	4513616	100.0	89.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	82	365896	100.0	97.8	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1016130	100.0	94.2	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	95	3438340	100.0	92.0	
105 4-Chlorotoluene	126	9.668	9.668	0.000	97	1097958	100.0	94.2	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	790782	100.0	92.6	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	3569277	100.0	93.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	4231777	100.0	90.1	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	3675792	100.0	91.7	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	2106967	100.0	94.6	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	96	2126360	100.0	93.1	
115 n-Butylbenzene	91	10.648	10.648	0.000	96	3311931	100.0	91.7	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	97	1953969	100.0	95.2	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	237848	100.0	113.2	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	94	1339108	100.0	97.7	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	772533	100.0	93.6	
121 Naphthalene	128	12.266	12.266	0.000	98	3298812	100.0	103.3	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	1248595	100.0	98.9	
S 125 1,2-Dichloroethene, Total	1				0			189.7	
S 126 1,3-Dichloropropene, Total	1				0			205.8	
S 123 Total BTEX	1				0			475.5	
S 124 Xylenes, Total	1				0			192.9	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added:	50.00	Units: uL	
GAS CORP mix_00280	Amount Added:	50.00	Units: uL	
F 8260 IS/SS_00032	Amount Added:	1.00	Units: uL	Run Reagent

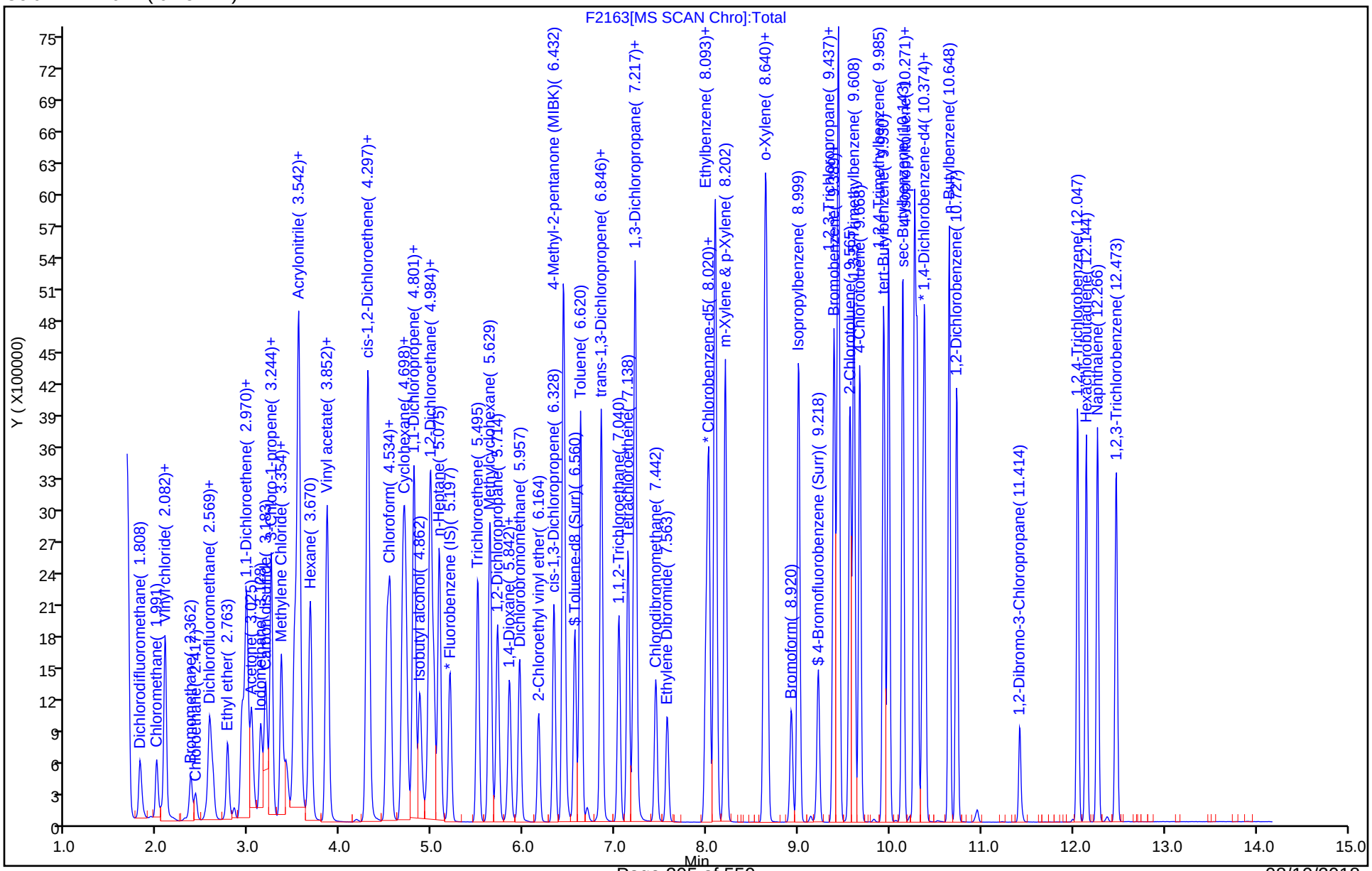
Report Date: 09-May-2018 10:47:31 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D

Injection Date:	08-May-2018 15:15:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

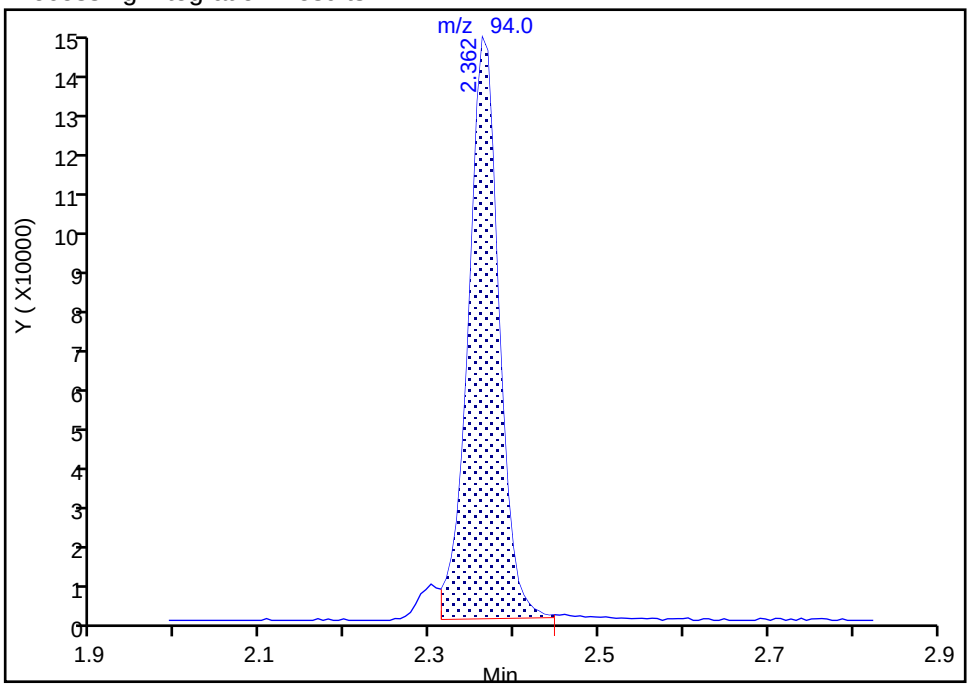
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

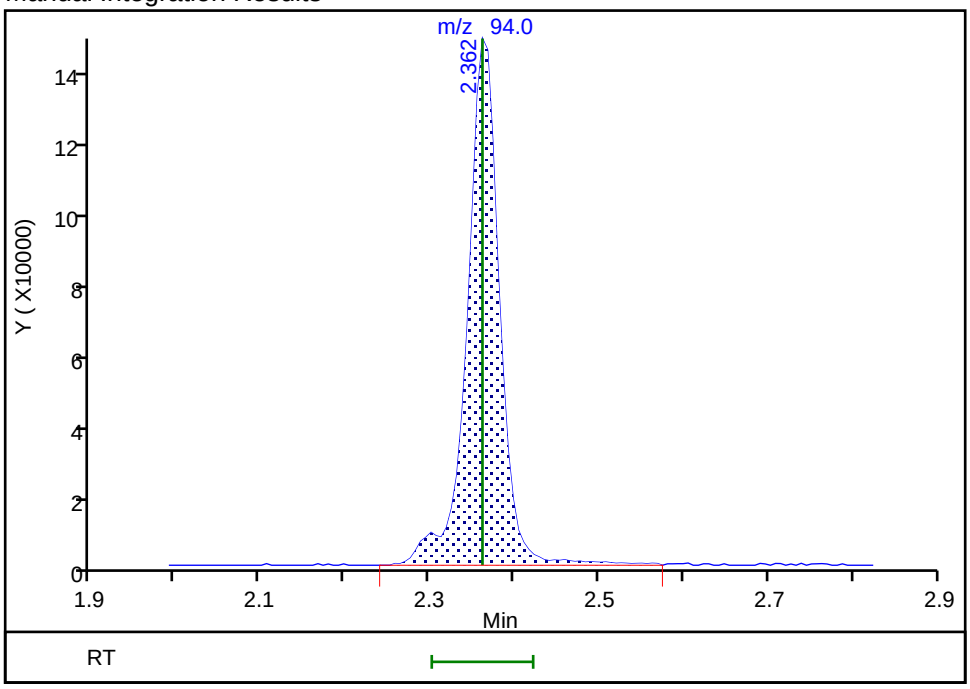
Processing Integration Results

RT: 2.36
Area: 371040
Amount: 81.851484
Amount Units: ug/kg



Manual Integration Results

RT: 2.36
Area: 395241
Amount: 86.530281
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

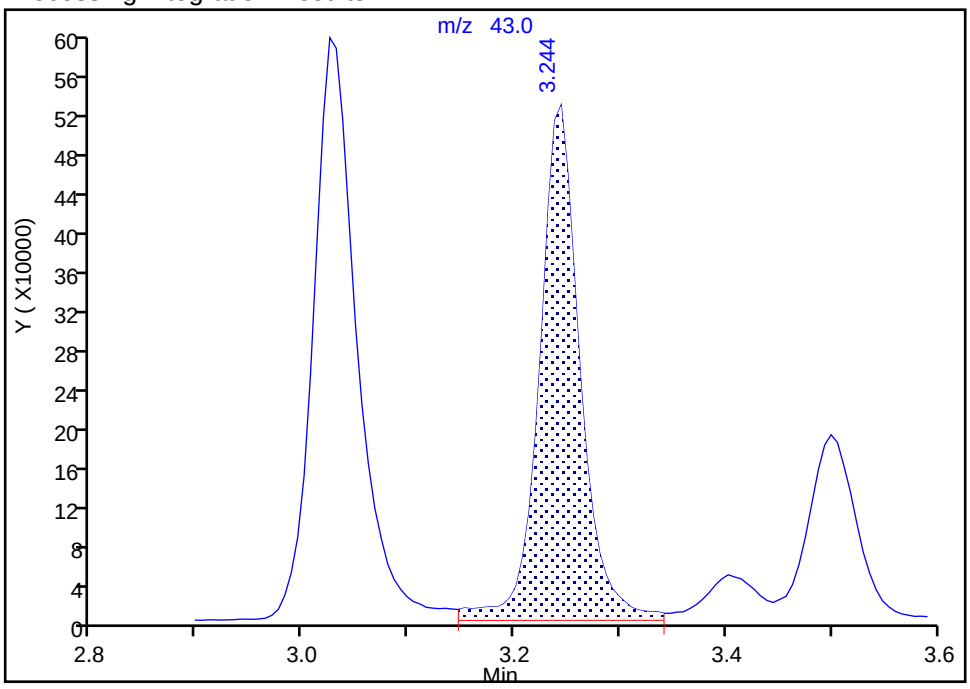
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2163.D
Injection Date: 08-May-2018 15:15:30 Instrument ID: HP5973F
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

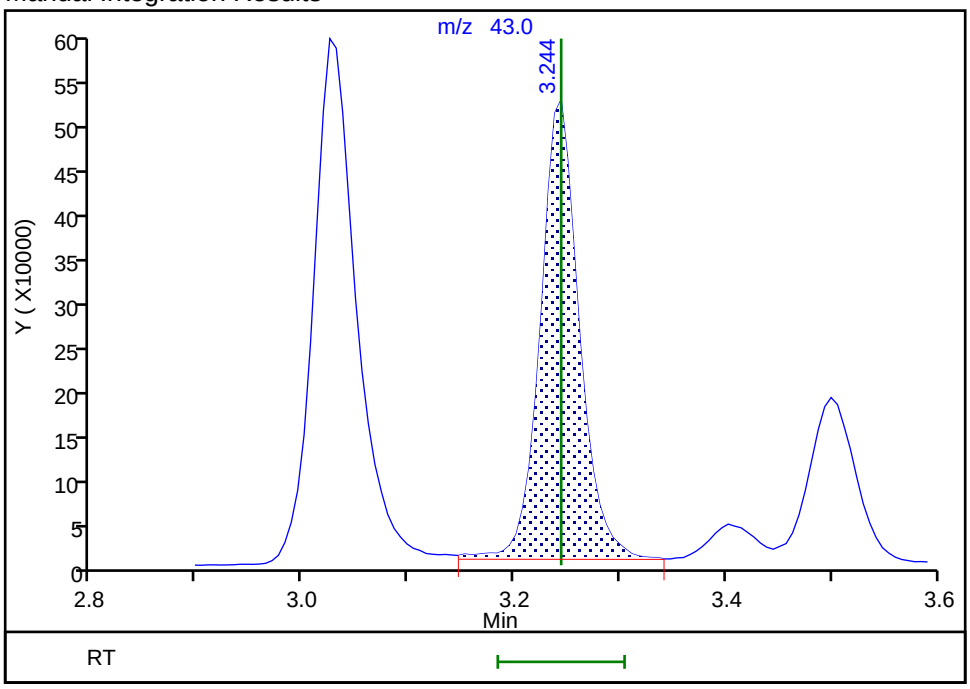
Processing Integration Results

RT: 3.24
Area: 1414006
Amount: 221.3077
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 1332522
Amount: 212.0671
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:39:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-May-2018 15:41:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0071332-012
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 09-May-2018 10:47:33 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: cwiklinc Date: 08-May-2018 16:41:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.191	0.006	99	326601	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	663923	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	95	672845	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.674	0.000	93	402086	50.0	50.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.954	0.006	95	253737	50.0	48.9	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	92	1557059	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	524824	50.0	50.7	
10 Dichlorodifluoromethane	85	1.814	1.808	0.006	99	1870641	200.0	181.4	
12 Chloromethane	50	1.997	1.985	0.012	99	1472544	200.0	175.1	
13 Vinyl chloride	62	2.088	2.076	0.012	98	1460875	200.0	177.3	
151 Butadiene	54	2.094	2.082	0.012	89	1501829	200.0	164.0	
14 Bromomethane	94	2.374	2.362	0.012	90	828372	200.0	178.1	
15 Chloroethane	64	2.423	2.417	0.006	99	651639	200.0	174.9	
16 Dichlorofluoromethane	67	2.575	2.569	0.006	97	1746904	200.0	174.1	
17 Trichlorofluoromethane	101	2.605	2.593	0.012	99	1917931	200.0	176.6	
18 Ethyl ether	59	2.769	2.763	0.006	87	1152714	200.0	182.9	
20 Acrolein	56	2.922	2.916	0.006	100	1515180	1000.0	911.7	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.952	0.012	93	1527242	200.0	179.9	
22 1,1-Dichloroethene	96	2.982	2.976	0.006	99	1499517	200.0	177.9	
23 Acetone	43	3.031	3.025	0.006	100	3053604	1000.0	890.8	
25 Iodomethane	142	3.135	3.128	0.006	100	2778637	200.0	184.0	
26 Carbon disulfide	76	3.183	3.183	0.000	99	4913516	200.0	180.4	
27 Methyl acetate	43	3.244	3.244	0.000	96	2421323	400.0	378.5	M
28 3-Chloro-1-propene	41	3.244	3.244	0.000	87	2394553	200.0	177.6	
30 Methylene Chloride	84	3.360	3.354	0.006	89	1805747	200.0	196.6	
31 2-Methyl-2-propanol	59	3.408	3.402	0.006	99	1866652	2000.0	1866.1	
32 Methyl tert-butyl ether	73	3.506	3.500	0.006	94	5311617	200.0	180.7	
34 trans-1,2-Dichloroethene	96	3.536	3.536	0.000	98	1754514	200.0	180.8	
33 Acrylonitrile	53	3.548	3.548	0.000	97	5657949	2000.0	1760.2	
35 Hexane	57	3.670	3.670	0.000	91	2666829	200.0	174.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.846	0.006	97	6281626	400.0	350.4	
39 1,1-Dichloroethane	63	3.858	3.859	-0.001	96	3001328	200.0	180.9	
43 2-Butanone (MEK)	43	4.296	4.290	0.006	98	4155648	1000.0	931.5	
44 2,2-Dichloropropane	77	4.296	4.290	0.006	89	2599387	200.0	181.8	
45 cis-1,2-Dichloroethene	96	4.303	4.303	0.000	81	1931790	200.0	181.1	
48 Chlorobromomethane	128	4.509	4.503	0.006	92	939948	200.0	186.0	
49 Tetrahydrofuran	42	4.522	4.522	0.000	84	1013003	400.0	371.6	
50 Chloroform	83	4.546	4.540	0.006	92	3093755	200.0	178.2	
51 1,1,1-Trichloroethane	97	4.686	4.680	0.006	98	2703792	200.0	183.5	
52 Cyclohexane	56	4.710	4.704	0.006	87	2634538	200.0	177.1	
54 1,1-Dichloropropene	75	4.801	4.795	0.006	96	2445117	200.0	178.5	
55 Carbon tetrachloride	117	4.807	4.808	-0.001	98	2434358	200.0	196.4	
53 Isobutyl alcohol	43	4.862	4.862	0.000	93	2077352	5000.0	4977.8	
57 Benzene	78	4.984	4.978	0.006	98	6414236	200.0	170.5	
58 1,2-Dichloroethane	62	5.020	5.014	0.006	98	2549664	200.0	177.7	
59 n-Heptane	43	5.081	5.075	0.006	87	2609005	200.0	176.8	
62 Trichloroethene	95	5.501	5.495	0.006	97	1808222	200.0	180.2	
64 Methylcyclohexane	83	5.635	5.629	0.006	88	3180641	200.0	179.8	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	93	1630061	200.0	185.4	
66 1,4-Dioxane	88	5.817	5.817	0.000	90	391740	4000.0	3966.1	
67 Dibromomethane	93	5.842	5.842	0.000	95	1123988	200.0	187.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	2437257	200.0	199.4	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	93	1054234	200.0	195.3	
72 cis-1,3-Dichloropropene	75	6.328	6.328	0.000	96	2866859	200.0	192.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	90	7165809	1000.0	850.0	
74 Toluene	92	6.620	6.620	0.000	96	4253584	200.0	178.8	
77 trans-1,3-Dichloropropene	75	6.845	6.846	-0.001	96	2775351	200.0	199.2	
75 Ethyl methacrylate	69	6.852	6.852	0.000	87	2367523	200.0	196.6	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	93	1273909	200.0	188.3	
81 Tetrachloroethene	166	7.137	7.138	-0.001	97	1939047	200.0	181.3	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	2676910	200.0	186.9	
80 2-Hexanone	43	7.223	7.217	0.006	90	5734469	1000.0	871.2	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	1837784	200.0	218.0	
84 Ethylene Dibromide	107	7.569	7.563	0.006	99	1660134	200.0	192.6	
87 Chlorobenzene	112	8.020	8.020	0.000	92	4530079	200.0	176.0	
88 Ethylbenzene	91	8.087	8.087	0.000	97	6999358	200.0	163.3	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	1692523	200.0	203.4	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	96	3286708	200.0	182.7	
91 o-Xylene	106	8.634	8.628	0.006	95	3086903	200.0	183.3	
92 Styrene	104	8.652	8.652	0.000	92	5344805	200.0	181.9	
95 Bromoform	173	8.920	8.920	0.000	96	1309515	200.0	239.0	
94 Isopropylbenzene	105	8.999	8.999	0.000	97	7035681	200.0	160.3	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	93	2001615	200.0	181.2	
101 Bromobenzene	156	9.388	9.388	0.000	91	2138796	200.0	176.8	
98 trans-1,4-Dichloro-2-buten	53	9.431	9.431	0.000	49	678115	200.0	186.8	
99 N-Propylbenzene	91	9.437	9.437	0.000	95	7640594	200.0	149.3	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	67	672880	200.0	177.6	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	1949120	200.0	178.5	
102 1,3,5-Trimethylbenzene	105	9.607	9.608	-0.001	95	6140462	200.0	162.3	
105 4-Chlorotoluene	126	9.668	9.668	0.000	96	2120077	200.0	179.5	
106 tert-Butylbenzene	134	9.930	9.930	0.000	91	1524919	200.0	176.3	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	6276260	200.0	161.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.137	0.006	95	7170684	200.0	150.8	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	93	6350065	200.0	156.4	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	96	3902824	200.0	173.0	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	92	3967003	200.0	171.4	
115 n-Butylbenzene	91	10.648	10.648	0.000	93	5784281	200.0	158.1	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	95	3628583	200.0	174.5	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	447122	200.0	210.1	
119 1,2,4-Trichlorobenzene	180	12.047	12.047	0.000	95	2481204	200.0	178.8	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	98	1434094	200.0	171.6	
121 Naphthalene	128	12.266	12.266	0.000	99	5624161	200.0	173.8	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	95	2318537	200.0	181.3	
S 125 1,2-Dichloroethene, Total	1				0			361.9	
S 126 1,3-Dichloropropene, Total	1				0			391.5	
S 123 Total BTEX	1				0			878.6	
S 124 Xylenes, Total	1				0			366.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00125	Amount Added: 100.00	Units: uL	
GAS CORP mix_00280	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00032	Amount Added: 1.00	Units: uL	Run Reagent

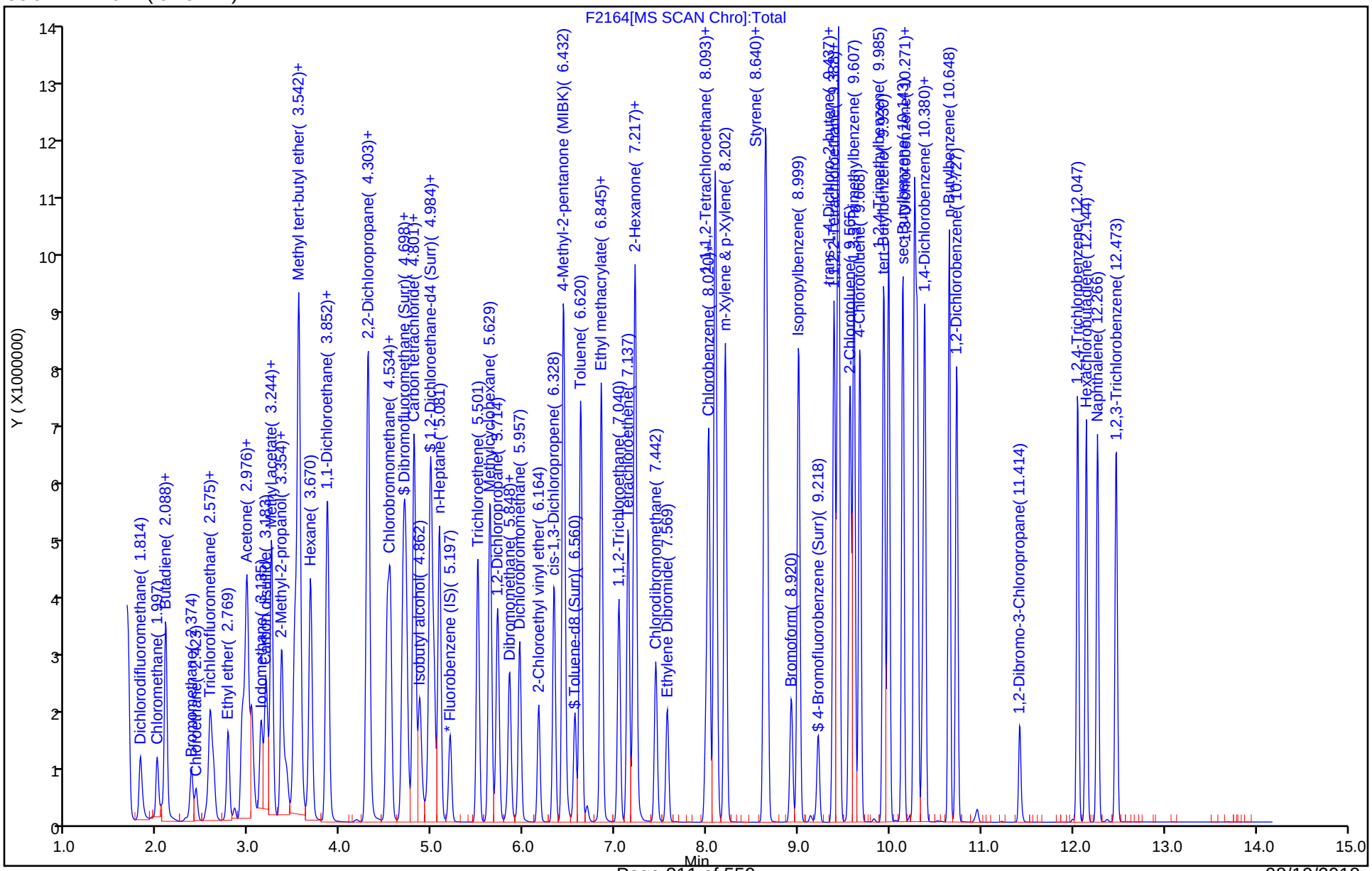
Report Date: 09-May-2018 10:47:37 Chrom Revision: 2.2 26-Apr-2018 11:26:08

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D

Injection Date:	08-May-2018 15:41:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

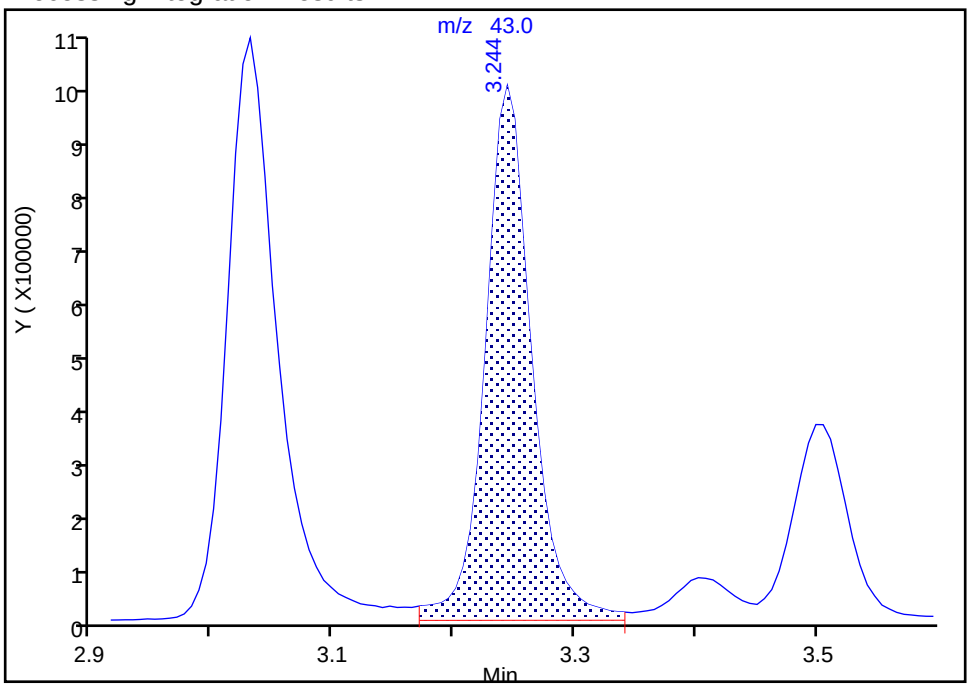
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2164.D
Injection Date: 08-May-2018 15:41:30 Instrument ID: HP5973F
Lims ID: IC 7
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

27 Methyl acetate, CAS: 79-20-9

Signal: 1

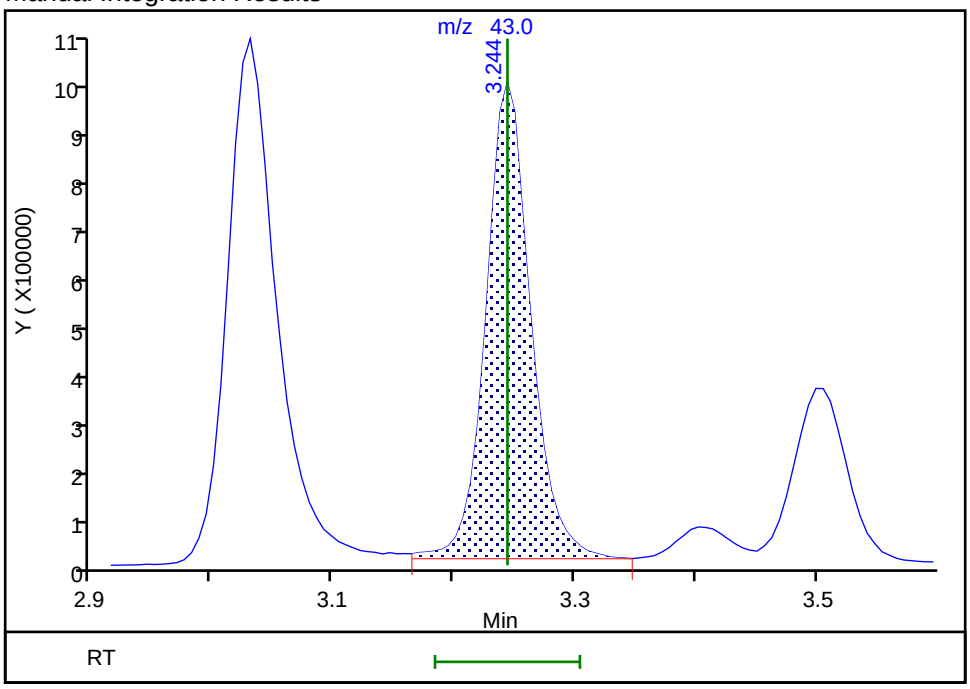
Processing Integration Results

RT: 3.24
Area: 2557087
Amount: 396.7218
Amount Units: ug/kg



Manual Integration Results

RT: 3.24
Area: 2421323
Amount: 378.5059
Amount Units: ug/kg



Reviewer: cwiklinc, 08-May-2018 16:40:43
Audit Action: Manually Integrated Audit Reason: Baseline

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.4096	0.2804 0.4198	0.3800	0.3596	0.3611	Ave		0.3684				13.5		20.0			
Dichlorodifluoromethane	+++++ 0.9777	0.8283 0.9557	0.9128	0.8433	0.8197	Ave		0.8896			0.1000	7.7		20.0			
Chloromethane	+++++ 1.0946	1.2253 1.0508	1.0793	1.0455	1.0241	Ave		1.0866			0.1000	6.7		20.0			
Vinyl chloride	+++++ 1.1118	1.1186 1.0738	1.1243	1.0610	1.0246	Ave		1.0857			0.1000	3.6		20.0			
Butadiene	1.1300 1.0188	0.9555 1.0017	0.9540	0.9273	0.9227	Ave		0.9872				7.3		20.0			
Bromomethane	+++++ 0.7167	0.9255 0.6884	0.7666	0.7234	0.6823	Ave		0.7505			0.1000	12.1		20.0			
Chloroethane	+++++ 0.6258	0.7473 0.6114	0.6492	0.6249	0.6129	Ave		0.6452			0.1000	8.0		20.0			
Dichlorofluoromethane	+++++ 1.2715	1.3349 1.2435	1.4903	1.4533	1.4233	Ave		1.3695				7.4		20.0			
Pentane	+++++ 5.8294	4.7800 6.1553	8.0669	6.7689	6.2964	Ave		6.3162				17.2		20.0			
Trichlorofluoromethane	+++++ 0.9581	1.0328 0.9605	1.1178	0.9969	0.9673	Ave		1.0055			0.1000	6.2		20.0			
Ethyl ether	+++++ 0.4484	0.4575 0.4436	0.4276	0.4648	0.4492	Ave		0.4485				2.8		20.0			
Ethanol	+++++ 0.0734	0.0984 0.0828	0.0633	0.0810	0.0782	Ave		0.0795				14.6		20.0			
2-Methyl-1,3-butadiene	+++++ 0.4724	0.5765 0.5286	0.5283	0.5301	0.4975	Ave		0.5222				6.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.4982	0.5781 0.5018	0.5727	0.5400	0.5116	Ave		0.5337				6.6		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 2.0079	1.4232 2.3497	2.0032	2.0775	1.7964	Ave		1.9430				16.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.5839	0.6433 0.6083	0.6927	0.6361	0.5719	Ave		0.6227			0.1000	7.1		20.0			
1,1-Dichloroethene	+++++ 0.5611	0.6315 0.5820	0.5820	0.5721	0.5403	Ave		0.5782			0.1000	5.3		20.0			
Acetone	+++++ 1.4873	1.1984 1.3439	1.4691	1.4384	1.6129	Ave		1.4250			0.0500	9.9		20.0			
Iodomethane	+++++ 1.0047	1.1316 0.9801	1.0719	1.0546	1.0182	Ave		1.0435				5.2		20.0			
Isopropyl alcohol	+++++ 1.0829	1.2824 1.2265	1.1822	1.1674	1.0766	Ave		1.1697				6.9		20.0			
Carbon disulfide	+++++ 2.1710	2.7367 2.1530	2.3962	2.2538	2.1717	Ave		2.3137			0.1000	9.8		20.0			
Allyl chloride	+++++ 1.0744	1.1771 1.0410	1.1252	1.1407	1.0800	Ave		1.1064				4.5		20.0			
Methyl acetate	+++++ 0.3317	0.3018 0.3359	0.3541	0.3493	0.3375	Ave		0.3351			0.1000	5.5		20.0			
Cyclopentene	+++++ 1.3821	1.4563 1.4642	1.5134	1.5115	1.4882	Ave		1.4693				3.3		20.0			
Acetonitrile	+++++ 3.4292	2.7672 3.5026	2.7498	4.3151	3.9149	Ave		3.4465				18.0		20.0			
Methylene Chloride	+++++ 0.6644	0.7691 0.6596	0.7613	0.7373	0.6789	Ave		0.7118			0.1000	7.0		20.0			
2-Methyl-2-propanol	+++++ 2.0964	1.9706 2.1826	2.0330	2.3111	2.0234	Ave		2.1028				6.0		20.0			
Methyl tert-butyl ether	+++++ 1.6461	1.8272 1.6192	1.7464	1.7855	1.6563	Ave		1.7134			0.1000	4.9		20.0			
trans-1,2-Dichloroethene	+++++ 0.6140	0.6787 0.5992	0.6422	0.6619	0.6401	Ave		0.6394			0.1000	4.6		20.0			
Acrylonitrile	0.2013 0.1958	0.1525 0.1866	0.1920	0.2072	0.2027	Ave		0.1912				9.6		20.0			
Hexane	+++++ 0.5119	0.5774 0.5259	0.5213	0.5040	0.4857	Ave		0.5210				6.0		20.0			
Isopropyl ether	+++++ 1.8871	1.9363 1.8725	1.9854	2.0933	1.9791	Ave		1.9590				4.1		20.0			
1,1-Dichloroethane	+++++ 1.0576	1.1663 1.0327	1.2735	1.1881	1.0977	Ave		1.1360			0.2000	8.0		20.0			
Vinyl acetate	+++++ 0.1137	0.0908 0.1156	0.1033	0.1199	0.1156	Ave		0.1098				9.9		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.5210	0.6296 0.5429	0.5460	0.5855	0.5576	Ave		0.5638				6.8		20.0			
Tert-butyl ethyl ether	+++++ 1.7986	1.8339 1.7883	1.7792	1.9536	1.8591	Ave		1.8355				3.6		20.0			
2,2-Dichloropropane	+++++ 0.2227	0.2819 0.2258	0.2383	0.2445	0.2249	Ave		0.2397				9.3		20.0			
cis-1,2-Dichloroethene	+++++ 0.6891	0.7157 0.6802	0.7561	0.7586	0.7161	Ave		0.7193			0.1000	4.6		20.0			
Ethyl acetate	+++++ 0.6179	0.8236 0.5744	0.6934	0.6275	0.6300	Ave		0.6611				13.3		20.0			
2-Butanone (MEK)	+++++ 0.6699	0.7017 0.6025	0.6650	0.6871	0.6488	Ave		0.6625			0.0500	5.2		20.0			
Methyl acrylate	+++++ 0.5537	0.5189 0.5682	0.4801	0.5793	0.5226	Ave		0.5371				6.9		20.0			
Propionitrile	+++++ 4.0126	2.6535 3.6997	3.5258	4.3234	4.1101	Ave		3.7209				16.0		20.0			
Chlorobromomethane	+++++ 0.3150	0.3275 0.3100	0.3574	0.3522	0.3292	Ave		0.3319				5.8		20.0			
Tetrahydrofuran	+++++ 0.7348	1.1823 0.6938	0.7781	0.8528	0.7221	Lin2	0.8910	0.7325							0.9940		0.9900
Methacrylonitrile	+++++ 0.2119	0.1985 0.2035	0.2013	0.2183	0.2131	Ave		0.2077				3.7		20.0			
Chloroform	+++++ 0.9832	0.9973 0.9606	1.0655	1.1186	1.0321	Ave		1.0262			0.2000	5.7		20.0			
Cyclohexane	+++++ 0.9577	0.9012 1.0013	0.9836	0.9580	0.9438	Ave		0.9576			0.1000	3.6		20.0			
1,1,1-Trichloroethane	+++++ 0.8551	1.0791 0.8547	0.9097	0.9053	0.8834	Ave		0.9145			0.1000	9.2		20.0			
Carbon tetrachloride	+++++ 0.7193	0.7564 0.7197	0.7826	0.7442	0.7338	Ave		0.7427			0.1000	3.3		20.0			
1,1-Dichloropropene	+++++ 0.7888	0.8023 0.7927	0.8481	0.8246	0.8006	Ave		0.8095				2.8		20.0			
Isobutyl alcohol	+++++ 1.8194	1.4958 1.8475	1.5174	1.7757	1.6967	Ave		1.6921				9.0		20.0			
Benzene	+++++ 3.3104	3.6749 3.0267	3.7998	3.6947	3.4293	Ave		3.4893			0.5000	8.3		20.0			
Isopropyl acetate	+++++ 1.4734	1.4099 1.5307	1.3661	1.4906	1.5226	Ave		1.4656				4.4		20.0			
Tert-amyl methyl ether	+++++ 1.9674	1.8095 1.9640	1.9490	2.0386	1.9844	Ave		1.9521				3.9		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.6746	0.9299 0.6733	0.7345	0.7338	0.6905	Ave		0.7395			0.1000	13.2		20.0			
n-Heptane	+++++ 0.4774	0.4095 0.4770	0.4331	0.4450	0.4483	Ave		0.4484				5.8		20.0			
n-Butanol	+++++ 0.5571	0.0376 0.6177	0.2230	0.4286	0.4365	QuaF		0.5018	0.0000093						1.0000		0.9900
Trichloroethene	+++++ 0.5879	0.6922 0.5847	0.6151	0.6251	0.5924	Ave		0.6162			0.2000	6.6		20.0			
Ethyl acrylate	+++++ 1.4549	0.9726 1.4928	1.3013	1.4040	1.4028	Ave		1.3381				14.2		20.0			
Methylcyclohexane	+++++ 1.1400	0.9621 1.1612	1.0701	1.0983	1.0861	Ave		1.0863			0.1000	6.4		20.0			
1,2-Dichloropropane	+++++ 0.6277	0.6182 0.6312	0.6628	0.6612	0.6292	Ave		0.6384			0.1000	2.9		20.0			
Methyl methacrylate	+++++ 0.1377	0.0706 0.1403	0.1063	0.1272	0.1276	Lin2	-0.128	0.1319							0.9960		0.9900
1,4-Dioxane	+++++ 1.5125	1.9725 +++++	1.8476	2.2013	2.0100	Ave		1.9088				13.4		20.0			
Dibromomethane	+++++ 0.3445	0.4238 0.3447	0.3478	0.3748	0.3454	Ave		0.3635				8.7		20.0			
n-Propyl acetate	+++++ 0.6314	0.5563 0.6721	0.5213	0.5840	0.5910	Ave		0.5927				9.0		20.0			
Bromodichloromethane	+++++ 0.7719	0.8223 0.7650	0.7444	0.7892	0.7655	Ave		0.7764			0.2000	3.4		20.0			
2-Nitropropane	+++++ 0.1014	0.1413 0.1089	0.1154	0.0997	0.0977	Ave		0.1107				14.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.3148	0.2196 0.3345	0.2286	0.2778	0.2990	Ave		0.2790				16.7		20.0			
Epichlorohydrin	0.4005 0.5447	0.4639 0.4952	0.4988	0.5495	0.5520	Ave		0.5007				11.1		20.0			
cis-1,3-Dichloropropene	+++++ 1.3044	1.2393 1.2677	1.2216	1.3105	1.2585	Ave		1.2670			0.2000	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 5.4727	4.0897 4.6357	5.1063	5.6364	5.7376	Ave		5.1131			0.0500	12.6		20.0			
Toluene	+++++ 3.3961	3.6696 3.0580	3.7301	3.7647	3.5451	Ave		3.5273			0.4000	7.6		20.0			
trans-1,3-Dichloropropene	+++++ 1.0688	1.0837 1.0692	1.0537	1.0444	1.0192	Ave		1.0565			0.1000	2.2		20.0			
Ethyl methacrylate	+++++ 0.9796	0.6332 0.9678	0.7782	0.9031	0.9282	Ave		0.8650				15.5		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	+++++ 0.5745	0.5531 0.5695	0.6305	0.6279	0.5687	Ave		0.5874			0.1000	5.7		20.0			
Tetrachloroethene	+++++ 0.8255	0.9118 0.8010	0.9151	0.8829	0.8347	Ave		0.8618			0.2000	5.6		20.0			
1,3-Dichloropropane	+++++ 1.1271	1.0600 1.1073	1.0752	1.1838	1.1141	Ave		1.1112				3.9		20.0			
2-Hexanone	+++++ 3.2781	1.1322 2.9377	2.5032	3.1028	3.1594	Lin2	-10.09	3.1150			0.0500				0.9970		0.9900
n-Butyl acetate	+++++ 0.9999	0.3685 1.0361	0.9370	0.9905	0.9799	Lin2	-0.646	1.0229							0.9990		0.9900
Dibromochloromethane	+++++ 0.7500	0.7957 0.7302	0.7604	0.7919	0.7391	Ave		0.7612			0.1000	3.6		20.0			
1,2-Dibromoethane	+++++ 0.6487	0.5889 0.6297	0.6773	0.6642	0.6354	Ave		0.6407			0.1000	4.8		20.0			
Chlorobenzene	+++++ 2.1535	2.3059 2.0575	2.2586	2.3358	2.2118	Ave		2.2205			0.5000	4.6		20.0			
Ethylbenzene	+++++ 1.2461	1.3386 1.2210	1.2522	1.3569	1.2809	Ave		1.2826			0.1000	4.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.8110	0.8669 0.7777	0.8831	0.8775	0.8351	Ave		0.8419				5.0		20.0			
m-Xylene & p-Xylene	+++++ 1.5415	1.4107 1.4918	1.5428	1.6449	1.5364	Ave		1.5280			0.1000	5.0		20.0			
n-Butyl acrylate	+++++ 0.6188	0.2809 0.6462	0.4751	0.5178	0.5948	Lin2	-0.323	0.5909							0.9930		0.9900
o-Xylene	+++++ 1.5915	1.4835 1.5171	1.5683	1.6948	1.6265	Ave		1.5803			0.3000	4.8		20.0			
Styrene	+++++ 2.5276	2.3069 2.3304	2.3223	2.6994	2.5486	Ave		2.4559			0.3000	6.5		20.0			
Amyl acetate (mixed isomers)	+++++ 2.3224	0.8397 2.4796	1.6152	2.1243	2.1920	Lin2	-1.470	2.2418							0.9920		0.9900
Bromoform	+++++ 0.4899	0.5027 0.4653	0.4897	0.5078	0.4728	Ave		0.4880			0.1000	3.4		20.0			
Isopropylbenzene	+++++ 3.8165	3.5634 3.1366	3.9695	4.2458	4.0536	Ave		3.7976			0.1000	10.5		20.0			
Bromobenzene	+++++ 1.6482	1.8777 1.6436	1.6332	1.8636	1.6992	Ave		1.7276				6.6		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.5709	1.5903 1.5945	1.6768	1.7730	1.5659	Ave		1.6286			0.3000	5.0		20.0			
N-Propylbenzene	+++++ 7.6180	8.1580 6.1500	8.2138	9.1630	8.2260	Ave		7.9215				12.6		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.4200	0.5783 0.4327	0.4124	0.4700	0.4437	Ave		0.4595				13.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3721	0.1503 0.4001	0.3090	0.3834	0.3483	Lin2	-0.229	0.3760							0.9970		0.9900
2-Chlorotoluene	+++++ 5.4332	5.7173 4.8935	5.6074	6.2164	5.6221	Ave		5.5817				7.7		20.0			
4-Ethyltoluene	+++++ 6.4488	5.9268 5.6710	6.5017	7.7042	6.9316	Ave		6.5307				11.1		20.0			
1,3,5-Trimethylbenzene	+++++ 5.7514	5.6407 4.9391	5.7673	6.5723	5.8637	Ave		5.7558				9.1		20.0			
4-Chlorotoluene	+++++ 4.7994	4.9389 4.3616	4.9939	5.5613	4.9676	Ave		4.9371				7.8		20.0			
Butyl Methacrylate	+++++ 2.2408	1.2332 2.2743	1.5331	1.9717	2.1110	Qua2	-0.781	1.9628	0.0007536						0.9940		0.9900
tert-Butylbenzene	+++++ 4.8882	4.3097 4.3296	4.4633	5.0540	4.8145	Ave		4.6432				6.8		20.0			
1,2,4-Trimethylbenzene	+++++ 5.8657	5.4970 4.9186	5.9293	6.7587	6.1651	Ave		5.8557				10.6		20.0			
sec-Butylbenzene	+++++ 7.2632	7.0570 5.6427	7.4105	8.0792	7.4519	Ave		7.1508				11.4		20.0			
4-Isopropyltoluene	+++++ 6.2551	5.6428 5.1011	5.9227	6.9414	6.3807	Ave		6.0406				10.5		20.0			
1,3-Dichlorobenzene	+++++ 3.2744	3.3013 3.1236	3.4851	3.7755	3.3672	Ave		3.3878			0.6000	6.6		20.0			
1,4-Dichlorobenzene	+++++ 3.2988	3.4735 3.1073	3.6511	3.9374	3.4887	Ave		3.4928			0.5000	8.2		20.0			
1,2,3-Trimethylbenzene	+++++ 6.1220	6.2852 5.0972	6.2669	7.0617	6.5002	Ave		6.2222				10.3		20.0			
Benzyl chloride	+++++ 3.3289	2.4567 3.1190	2.9110	3.5139	3.3271	Ave		3.1094				12.2		20.0			
Indan	+++++ 5.9743	6.2702 4.8508	6.5989	7.2731	6.5661	Ave		6.2556				13.0		20.0			
p-Diethylbenzene	+++++ 3.5449	3.4328 3.3779	3.7857	4.2794	3.8947	Ave		3.7192				9.1		20.0			
n-Butylbenzene	+++++ 3.4414	3.2999 3.2486	3.3995	3.8000	3.4829	Ave		3.4454				5.6		20.0			
1,2-Dichlorobenzene	+++++ 3.1989	3.4638 2.9521	3.4896	3.7870	3.4658	Ave		3.3929			0.4000	8.4		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 5.8178	5.6373 4.6891	5.5967	6.8353	6.2514	Ave		5.8046				12.4		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.2908	0.3163 0.2930	0.3059	0.3146	0.2796	Ave		0.3001			0.0500	4.9		20.0			
1,3,5-Trichlorobenzene	+++++ 2.4805	2.7233 2.3701	2.7171	2.8699	2.7097	Ave		2.6451				6.9		20.0			
1,2,4-Trichlorobenzene	+++++ 2.3908	2.0941 2.2343	2.3196	2.5877	2.4865	Ave		2.3522			0.2000	7.5		20.0			
Hexachlorobutadiene	+++++ 1.0787	1.2625 1.0285	1.1443	1.1111	1.0674	Ave		1.1154				7.4		20.0			
Naphthalene	+++++ 5.3551	4.1545 4.5511	4.6050	5.5966	5.6051	Ave		4.9779				12.4		20.0			
1,2,3-Trichlorobenzene	+++++ 2.1439	2.4818 1.9963	2.1657	2.4524	2.2920	Ave		2.2553				8.4		20.0			
Dibromofluoromethane (Surr)	0.2645 0.2342	0.2554 0.2323	0.2538	0.2530	0.2510	Ave		0.2492				4.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2621 0.2746	0.2672 0.2970	0.2520	0.2554	0.2550	Ave		0.2662				5.9		20.0			
Toluene-d8 (Surr)	1.3741 1.3672	1.3758 1.3366	1.4239	1.3803	1.3891	Ave		1.3782				1.9		20.0			
4-Bromofluorobenzene	0.3965 0.3978	0.4179 0.3853	0.4145	0.4087	0.4046	Ave		0.4036				2.8		20.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 709694	2101 1936409	14256	55175	141971	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 1693948	6206 4408691	34244	129388	322297	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1896409	9180 4846961	40491	160414	402640	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 1926255	8381 4953087	42176	162796	402833	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	1864 1765160	7159 4620836	35790	142283	362789	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 1241756	6934 3175435	28760	110997	268251	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 1084123	5599 2820281	24353	95876	240980	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 2202861	10001 5736092	55907	222984	559613	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 352397	1110 1096295	10144	34097	86045	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 1659910	7738 4430449	41932	152955	380312	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 776872	3428 2046129	16040	71323	176623	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd 9	Ave	+++++ 88716	457 294889	1593	8161	21379	+++++ 8000	40.0 20000	200	800	2000
2-Methyl-1,3-butadiene	FB	Ave	+++++ 818433	4319 2438118	19820	81333	195604	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 863219	4331 2314842	21483	82854	201129	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd 9	Ave	+++++ 60692	661 167400	5038	10465	24549	+++++ 200	4.00 400	20.0	40.0	100

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1011610	4820 2805995	25985	97594	224849	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 972069	4731 2684576	21834	87779	212440	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 1098210	3274 2964336	20985	87955	253164	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1740678	8478 4521161	40210	161807	400327	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 327318	1489 1092262	7433	29403	73566	+++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	+++++ 3761206	20504 9931387	89893	345818	853831	+++++ 200	1.00 500	5.00	20.0	50.0
Allyl chloride	FB	Ave	+++++ 1861456	8819 4802050	42210	175027	424625	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 1149470	4522 3098846	26571	107177	265412	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 2394522	10911 6754156	56774	231916	585122	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 1036510	3213 3119121	17289	108682	267502	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 1151163	5762 3042833	28558	113133	266928	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 633643	2288 1943662	12782	58208	138256	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 2851896	13690 7468949	65514	273962	651186	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 1063814	5085 2764093	24093	101552	251677	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	2656 3392609	11424 8608034	72019	317916	797034	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	+++++ 886813	4326 2425866	19556	77335	190970	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 3269485	14507 8637675	74480	321190	778104	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1832242	8738 4763691	47774	182293	431590	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 393956	1360 1066727	7751	36794	90865	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 902621	4717 2504213	20482	89837	219242	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 3116079	13740 8249314	66745	299751	730944	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 385912	2112 1041602	8939	37516	88442	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1193877	5362 3137762	28363	116397	281551	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 182512	900 506767	3962	15347	39552	+++++ 400	2.00 1000	10.0	40.0	100
2-Butanone (MEK)	BUT	Ave	+++++ 494630	1917 1328915	9499	42012	101840	+++++ 1000	5.00 2500	25.0	100	250
Methyl acrylate	CBNZ d5	Ave	+++++ 703275	2625 1967582	12350	63052	148390	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 1212845	3081 3294672	22168	108891	280840	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 545825	2454 1429859	13409	54045	129441	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Lin2	+++++ 217035	1292 612177	4446	20859	45338	+++++ 400	2.00 1000	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 3671286	14869 9385838	75501	334922	837786	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 1703395	7472 4430844	39973	171632	405786	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1659263	6752 4618908	36899	146994	371058	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 1481430	8085 3942526	34126	138900	347317	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 1246124	5667 3319730	29360	114190	288500	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 1366551	6011 3656797	31815	126530	314753	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 1374822	4342 4113074	23852	111808	289826	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZ d5	Ave	+++++ 4204764	18589 10481196	97753	402110	973646	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 2552684	10563 7060860	51248	228711	598652	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 3408504	13557 9059390	73115	312799	780186	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 1168815	6967 3106032	27555	112597	271491	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 827096	3068 2200144	16247	68281	176244	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd 9	QuaF	+++++ 420980	109 1375300	3506	26985	74557	+++++ 5000	25.0 12500	125	500	1250

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	+++++ 1018520	5186 2697116	23075	95905	232897	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 2520560	7287 6886192	48819	215422	551536	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1975138	7208 5356346	40143	168517	427028	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 1087509	4632 2911396	24865	101451	247397	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Lin2	+++++ 477153	1058 1294397	7979	39048	100300	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 112735	953 +++++	2029	10773	26419	+++++ 4000	50.0 +++++	100	400	1000
Dibromomethane	FB	Ave	+++++ 596905	3175 1590260	13049	57505	135812	+++++ 200	1.00 500	5.00	20.0	50.0
n-Propyl acetate	FB	Ave	+++++ 1093852	4168 3100296	19557	89611	232351	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 1337273	6161 3528767	27927	121094	300964	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 351273	2118 1004773	8656	30596	76847	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 545482	1645 1542778	8574	42627	117559	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	998 1608905	5069 4369507	28499	134393	346568	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1656751	6269 4389929	31426	142629	357305	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 4041093	11173 10225528	72940	344643	900558	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	+++++ 4313597	18562 10589556	95962	409728	1006532	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1357534	5482 3702694	27107	113666	289370	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 1244261	3203 3351463	20020	98286	263543	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 729655	2798 1972178	16220	68341	161457	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 1048499	4612 2773903	23541	96096	236993	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 1431570	5362 3834334	27661	128841	316304	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Lin2	+++++ 2420551	3093 6479984	35757	189724	495888	+++++ 1000	5.00 2500	25.0	100	250

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Lin2	+++++ 1269986	1864 3587927	24106	107797	278220	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 952604	4025 2528593	19562	86190	209847	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 823898	2979 2180576	17425	72287	180408	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 2735326	11664 7124946	58106	254215	627990	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1582697	6771 4228207	32213	147681	363682	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 1030138	4385 2693250	22718	95501	237090	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1957917	7136 5166108	39690	179024	436228	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Lin2	+++++ 786020	1421 2237636	12223	56357	168864	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 2021512	7504 5253468	40346	184452	461789	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 3210461	11669 8069972	59744	293795	723592	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Lin2	+++++ 1680483	2413 4681947	25124	129234	361611	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 622246	2543 1611171	12599	55269	134241	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 4847598	18025 10861682	102121	462092	1150898	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 1192585	5396 3103431	25405	113372	280301	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 1136664	4570 3010711	26083	107861	258315	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 5512304	23444 11612551	127766	557431	1357000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 303924	1662 816999	6415	28590	73193	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 269249	432 755508	4806	23323	57460	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 3931428	16430 9240017	87223	378178	927450	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 4666273	17032 10708126	101134	468686	1143475	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 4161635	16210 9326055	89710	399827	967312	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 3472777	14193 8235664	77680	338320	819475	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 1621447	3544 4294317	23847	119948	348236	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 3537058	12385 8175185	69427	307464	794229	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 4244360	15797 9287375	92231	411165	1017023	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 5255599	20280 10654597	115270	491501	1229308	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 4526133	16216 9632021	92127	422281	1052591	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 2369298	9487 5898093	54210	229685	555469	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 2386982	9982 5867301	56793	239534	575508	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 4429798	18062 9624666	97482	429601	1072303	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 2408788	7060 5889342	45280	213768	548852	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 4322939	18019 9159299	102646	442460	1083183	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 2565032	9865 6378237	58887	260337	642482	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2490143	9483 6134003	52880	231171	574560	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 2314674	9954 5574171	54281	230380	571740	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 4209686	16200 8853963	87056	415827	1031262	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 210427	909 553314	4759	19141	46130	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1794877	7826 4475172	42265	174592	447000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1729926	6018 4218831	36082	157425	410186	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 780509	3628 1941946	17800	67593	176091	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 3874891	11939 8593464	71630	340468	924647	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1551295	7132 3769448	33688	149191	378094	+++++ 200	1.00 500	5.00	20.0	50.0

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	87274 101418	95672 107167	95222	97066	98684	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	86458 118946	100077 137011	94533	97955	100245	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	309037 434144	347975 462865	366322	375578	394381	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	89171 126322	105689 133441	106636	111206	114885	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Jul-2018 08:14:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0075068-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:59:57 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 08:34:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.853	1.837	0.016	71	1864	0.2500	0.2862	
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	105363	1000.0	1000.0	
31 Acrylonitrile	53	3.464	3.448	0.016	67	2656	2.00	2.11	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	124582	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	87274	50.0	53.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	86458	50.0	49.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	329916	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	9358	1000.0	1000.0	
75 Epichlorohydrin	57	6.718	6.685	0.033	1	998	5.00	4.00	a
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	98	309037	50.0	49.9	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	224904	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	89171	50.0	49.1	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	120459	50.0	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.50	Units: uL	
ACROLEIN W_00078	Amount Added:	0.00	Units: uL	
GAS Hi_00262	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00051	Amount Added:	20.00	Units: uL	
14DIOXINTER_00086	Amount Added:	0.00	Units: uL	
Ethanol mix_00017	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	0.00	Units: uL	
MIX I Hi_00095	Amount Added:	0.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

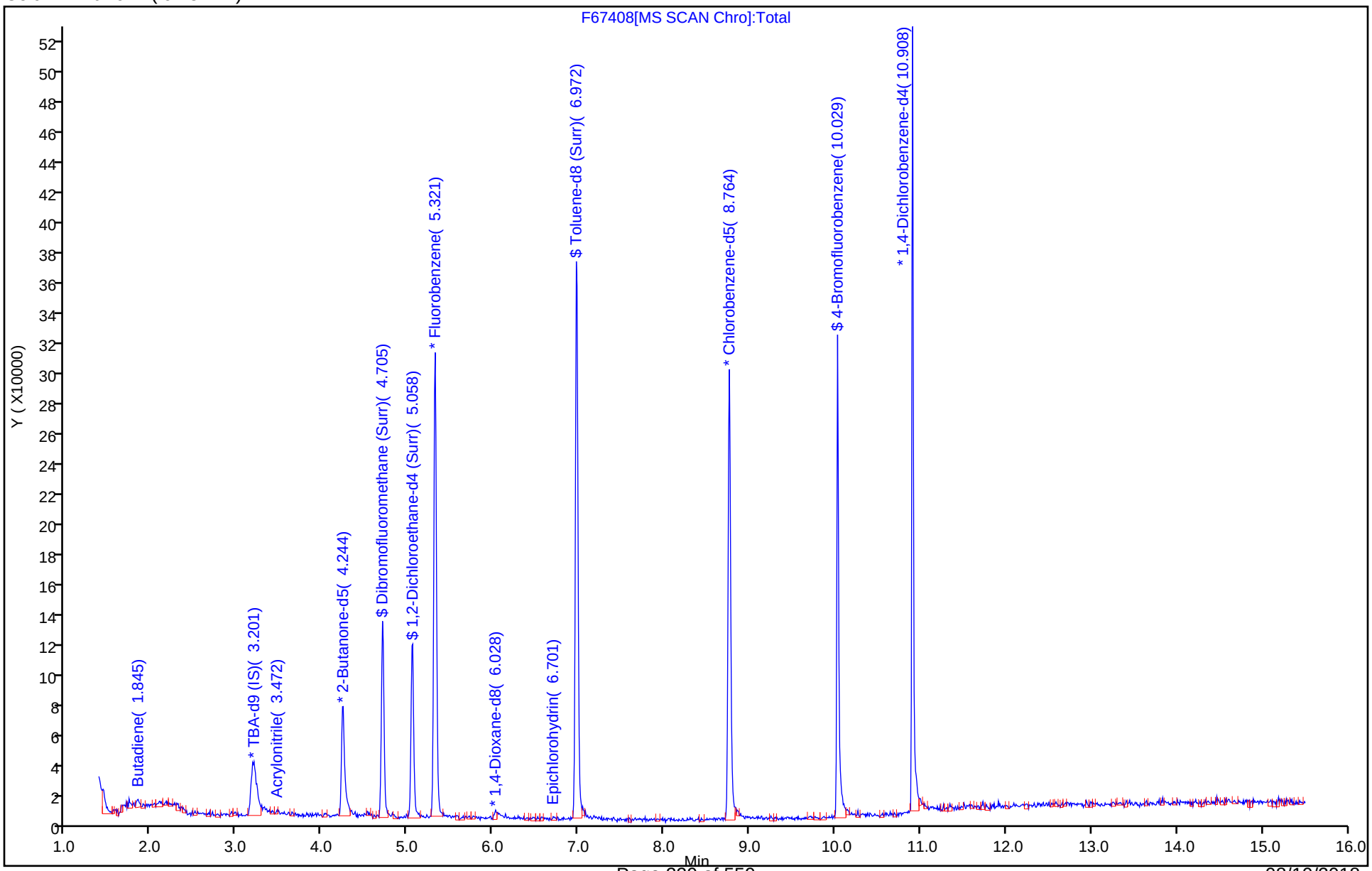
Report Date: 08-Jul-2018 18:59:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D

Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

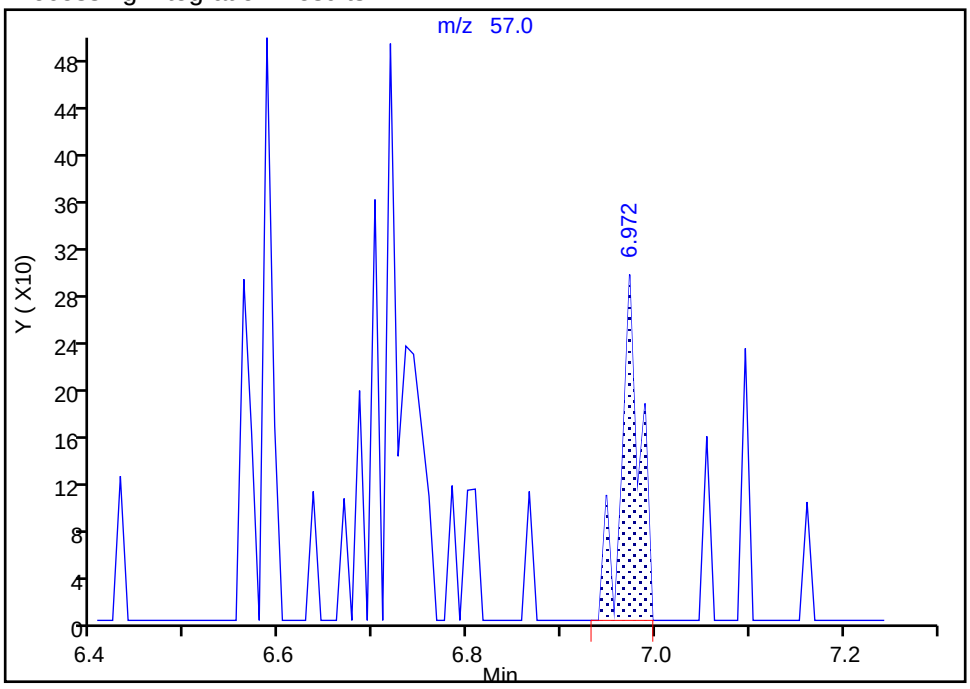
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

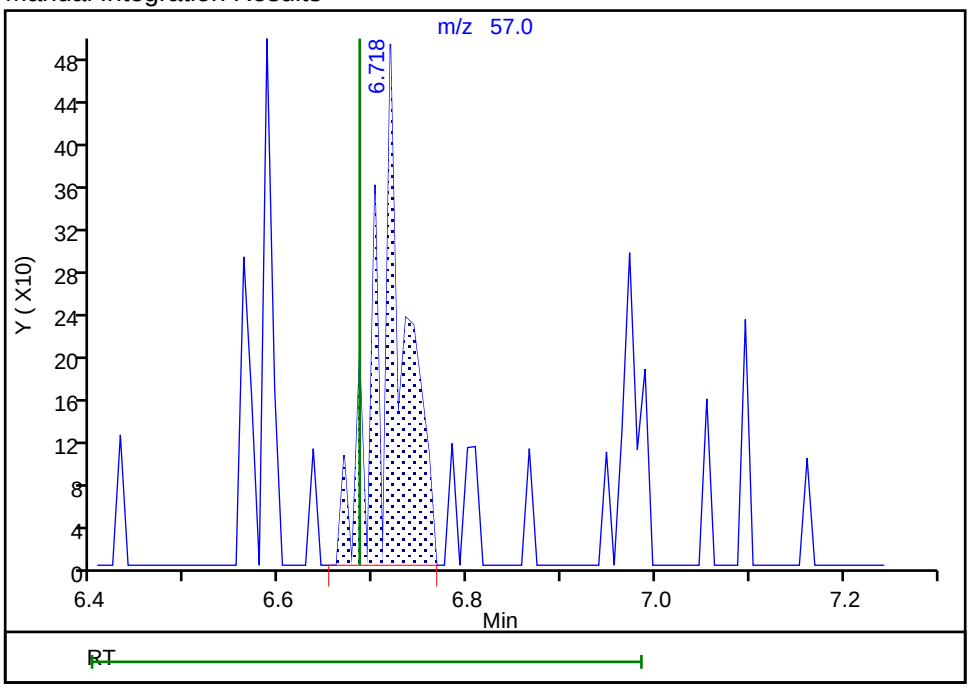
Processing Integration Results

RT: 6.97
Area: 405
Amount: 1.414336
Amount Units: ug/l



Manual Integration Results

RT: 6.72
Area: 998
Amount: 4.000129
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:27:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

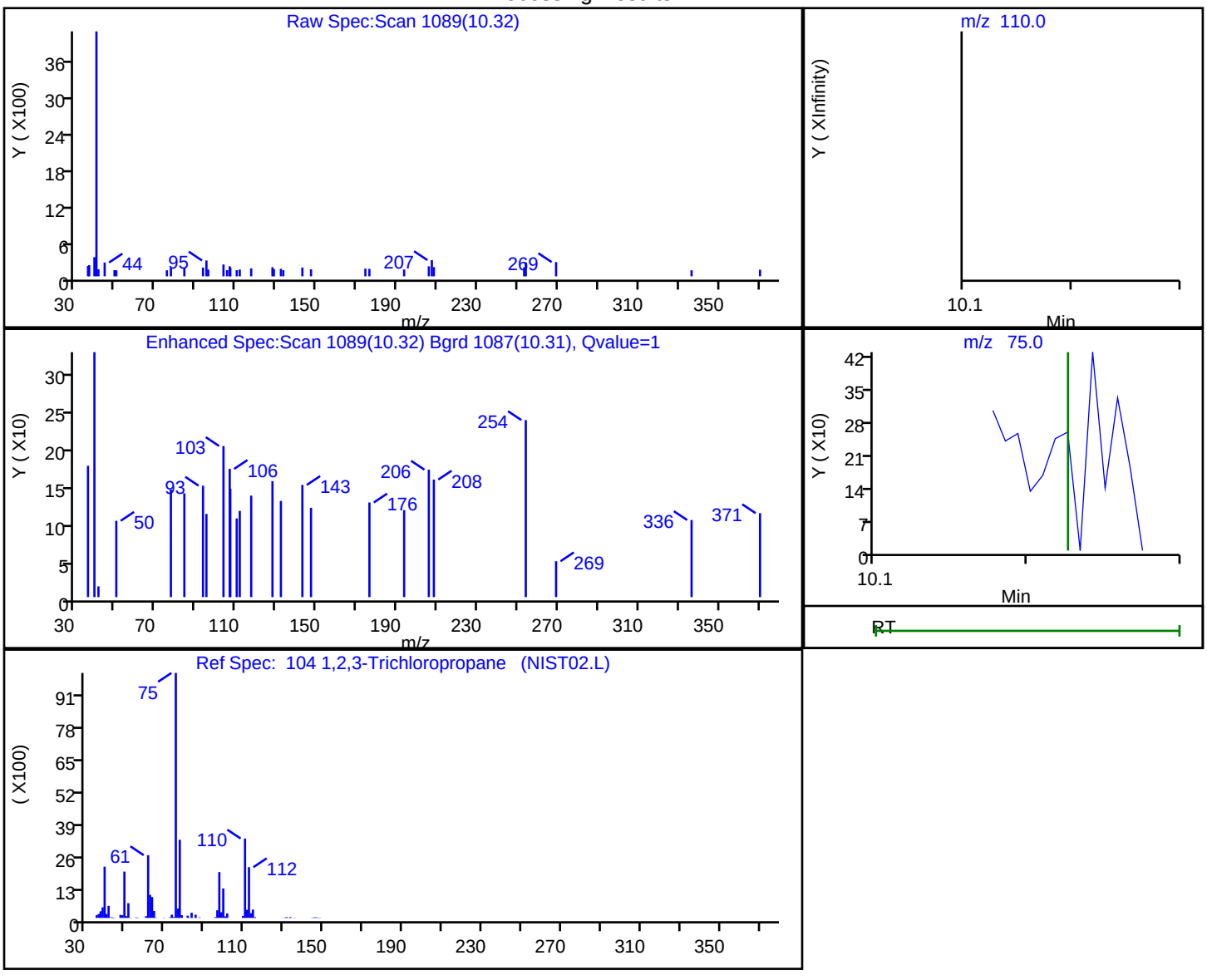
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
10.32	110.00	51	0.046068
10.33	75.00	277	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

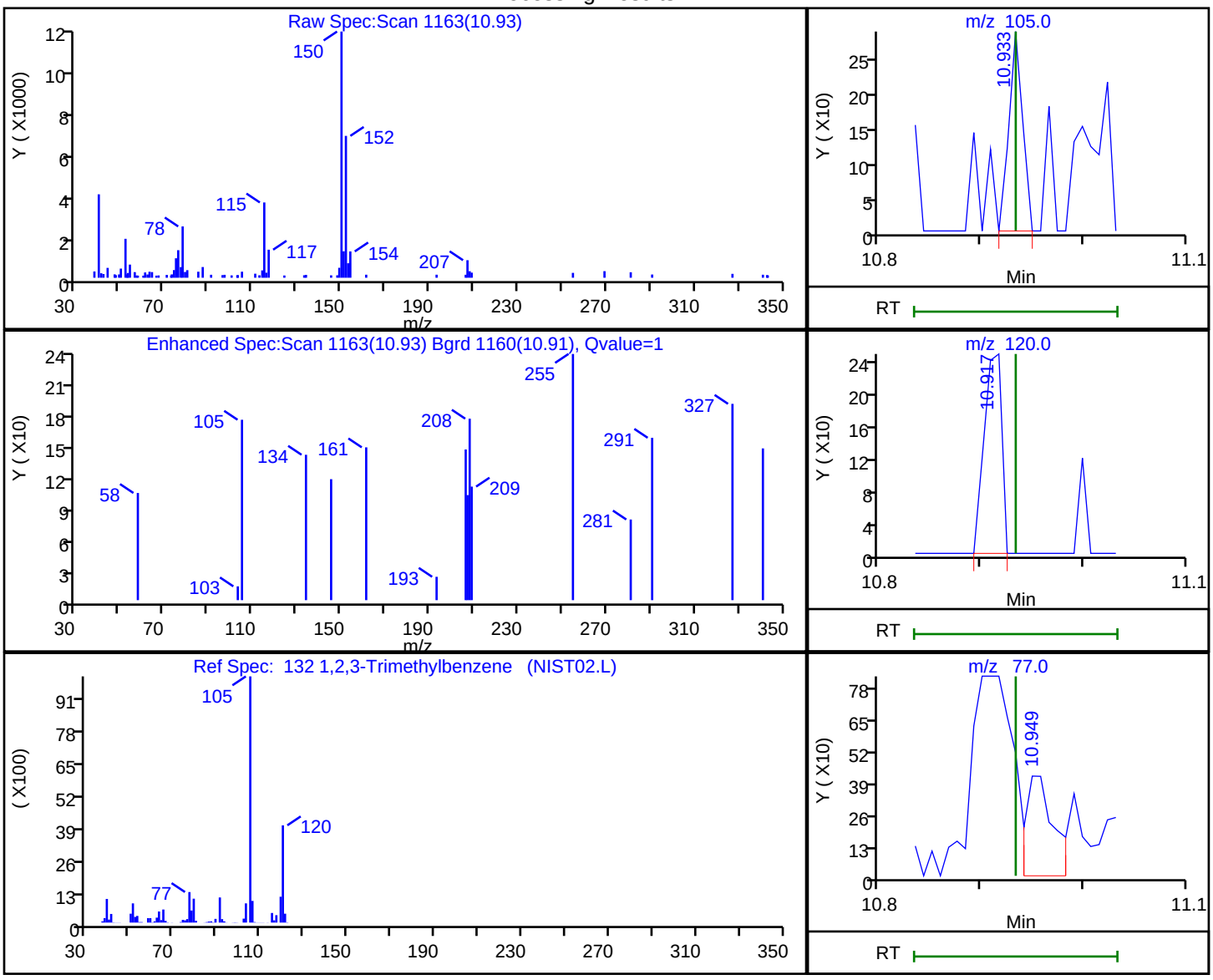
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.93	105.00	269	0.017945
10.92	120.00	300	
10.95	77.00	784	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

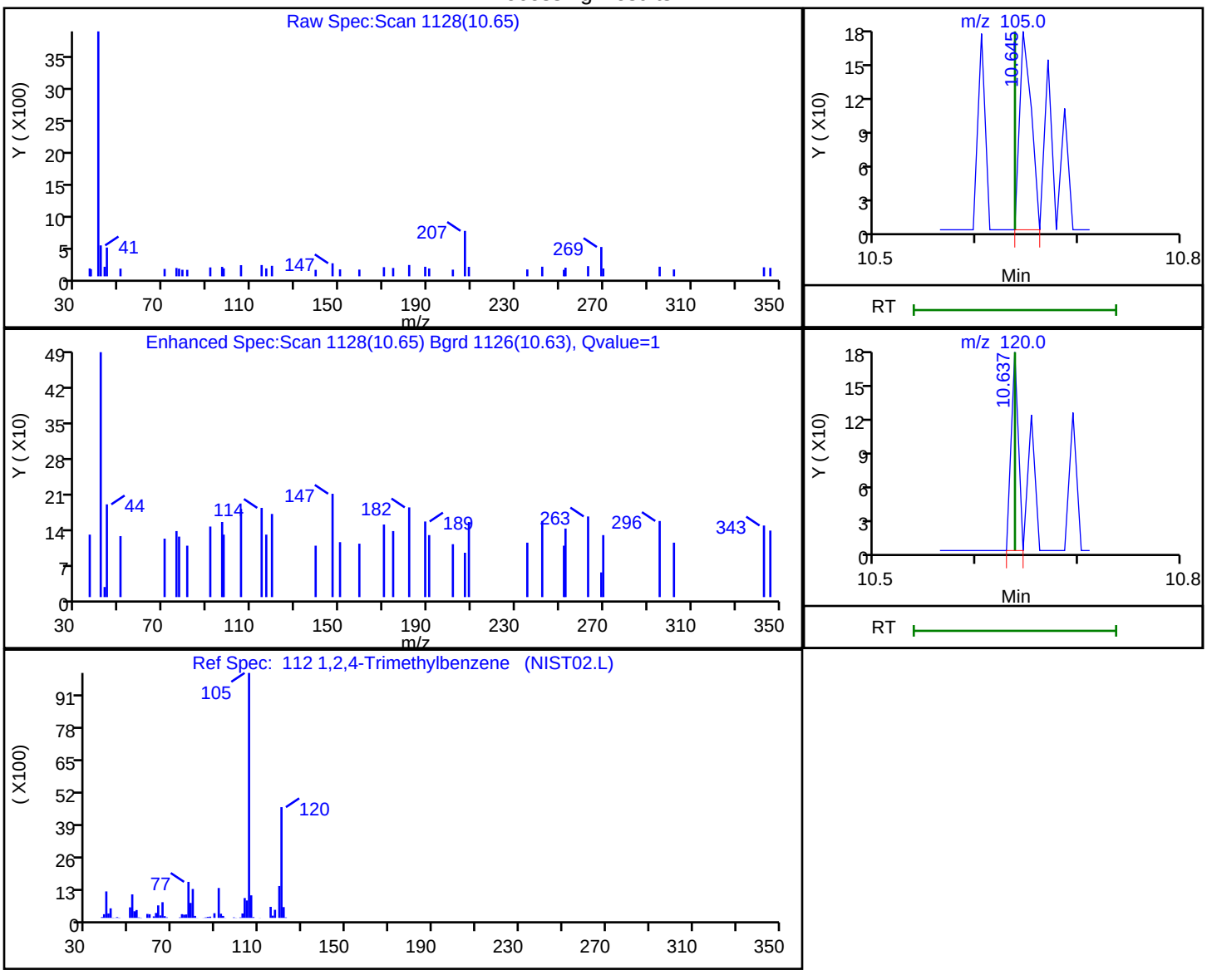
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.65	105.00	139	0.009853
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:19

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

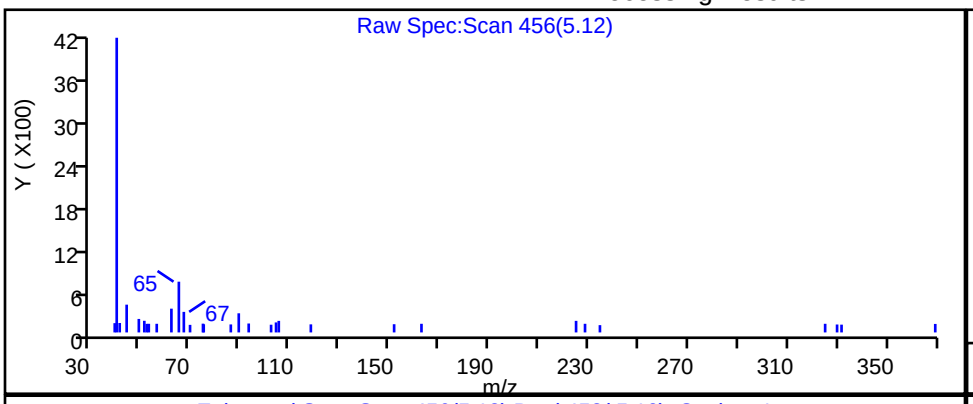
User Disabled Compound Report

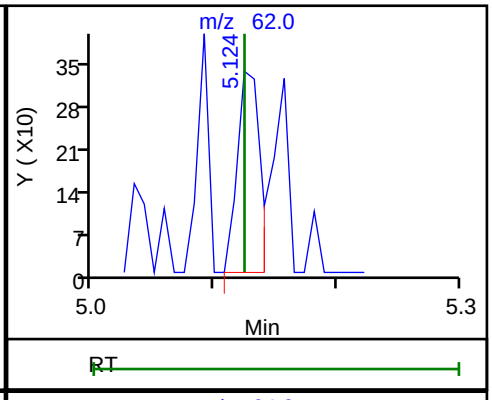
TestAmerica Edison

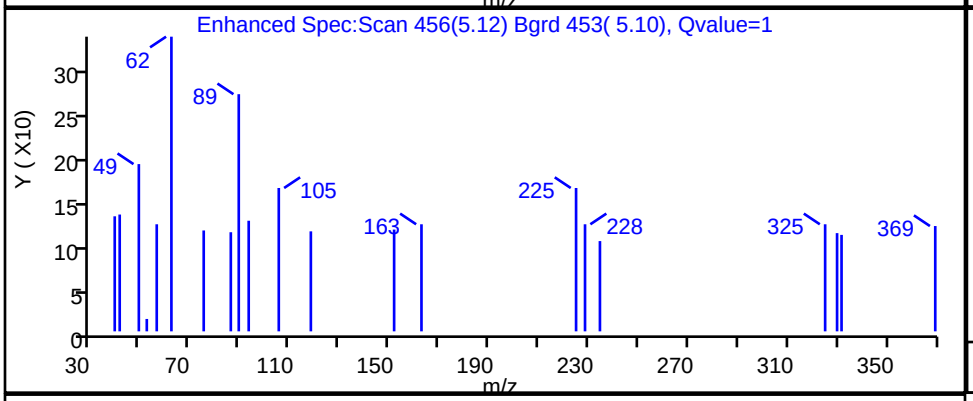
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

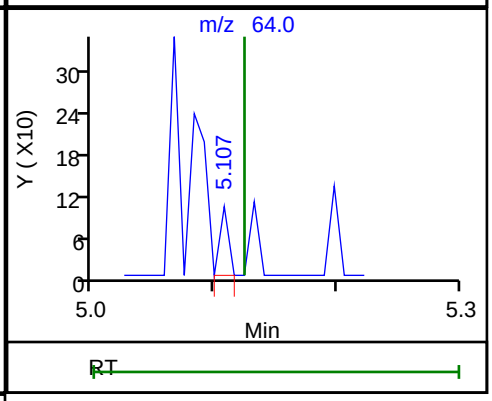
59 1,2-Dichloroethane, CAS: 107-06-2

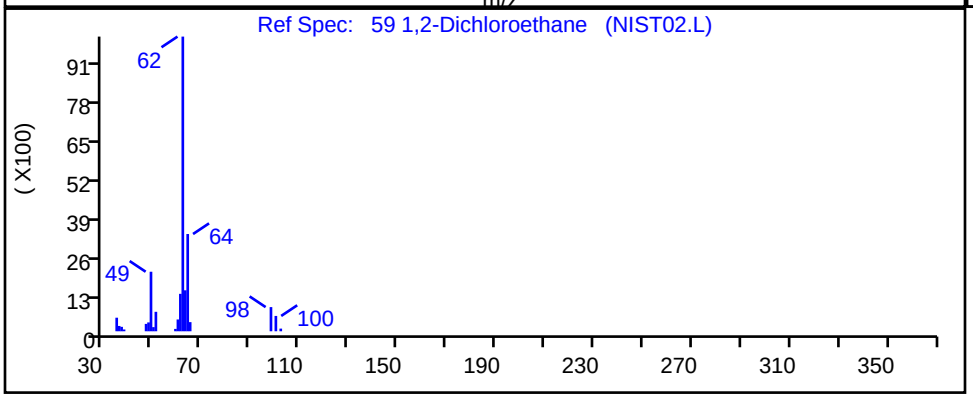
Processing Results











RT	Mass	Response	Amount
5.12	62.00	435	0.089154
5.11	64.00	49	

Reviewer: delpolitov, 08-Jul-2018 17:41:57

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

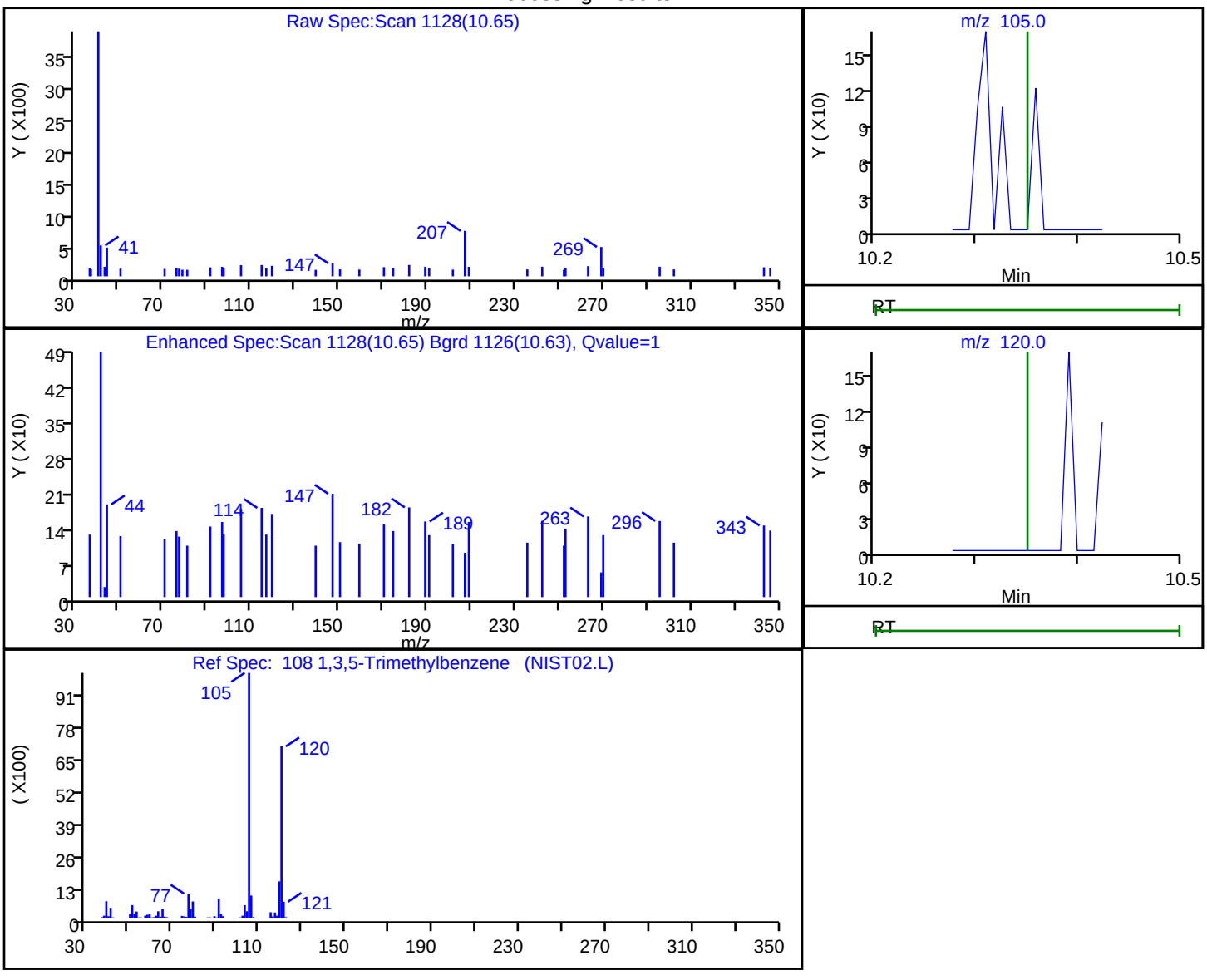
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
10.65	105.00	139	0.010024
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

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

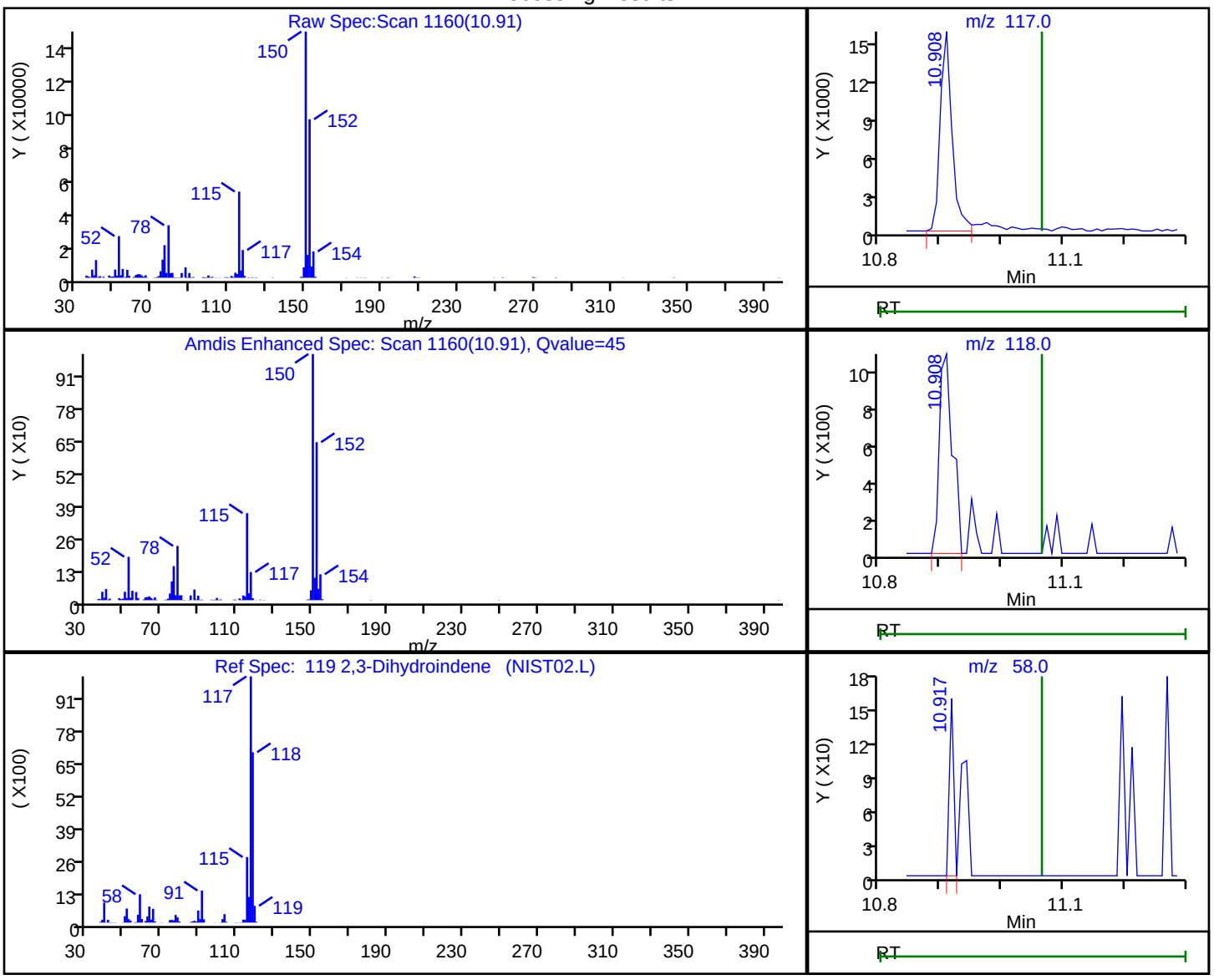
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

119 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.91	117.00	21528	1.428457
10.91	118.00	1542	
10.92	58.00	79	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

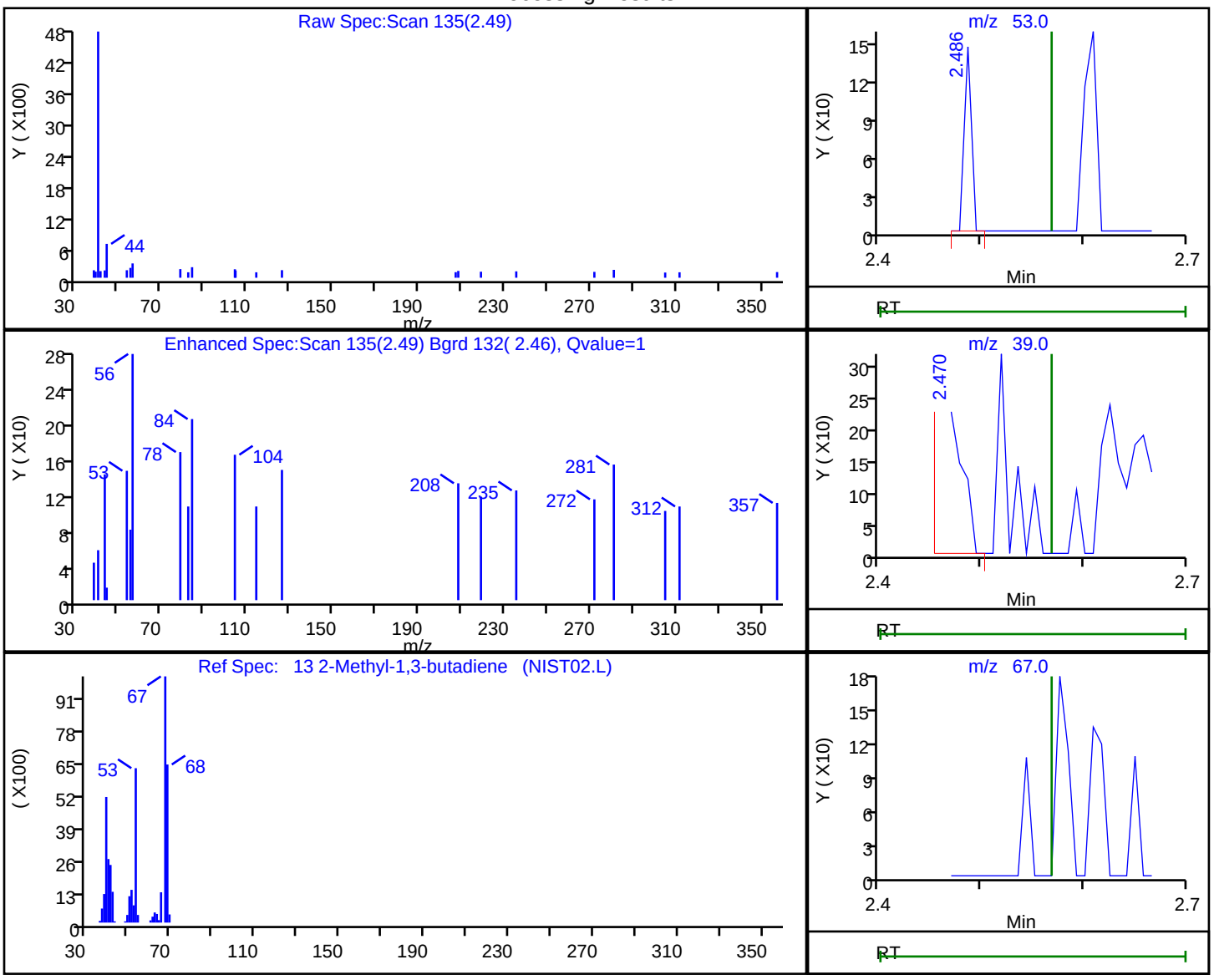
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
2.49	53.00	71	0.020605
2.47	39.00	338	
2.57	67.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

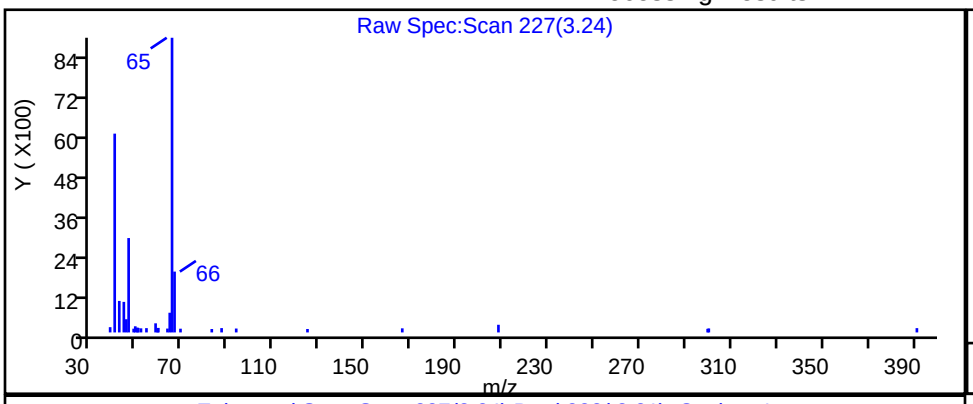
User Disabled Compound Report

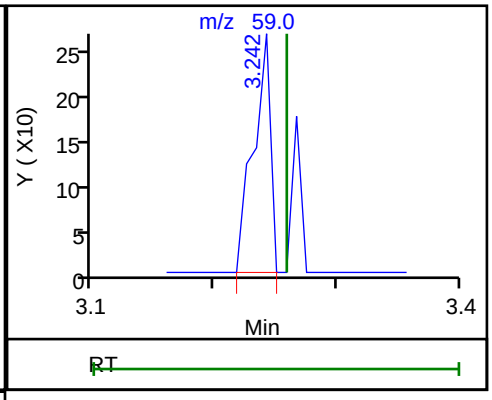
TestAmerica Edison

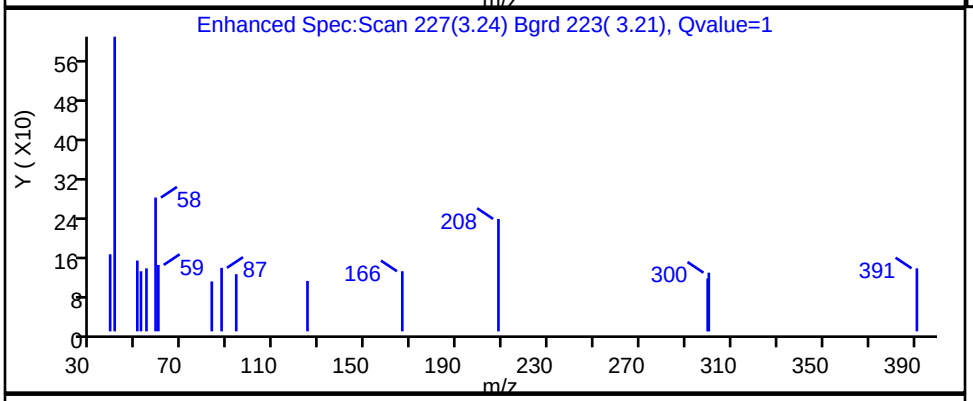
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

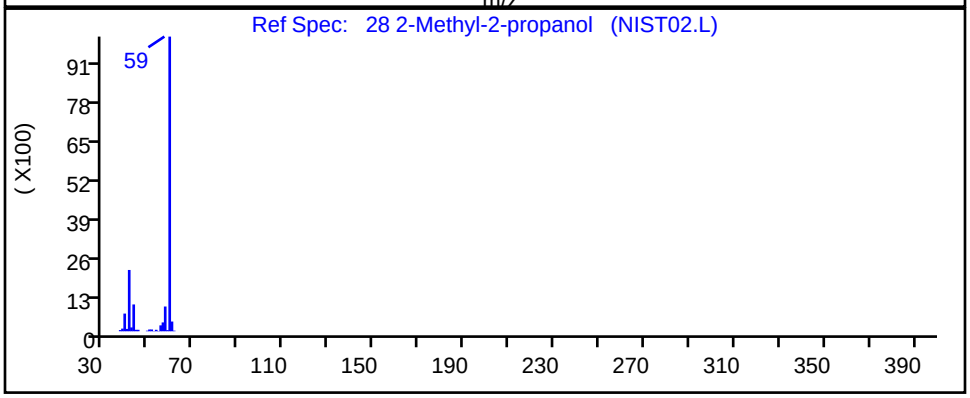
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
3.24	59.00	259	1.228827

Reviewer: delpolitov, 08-Jul-2018 17:28:03

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

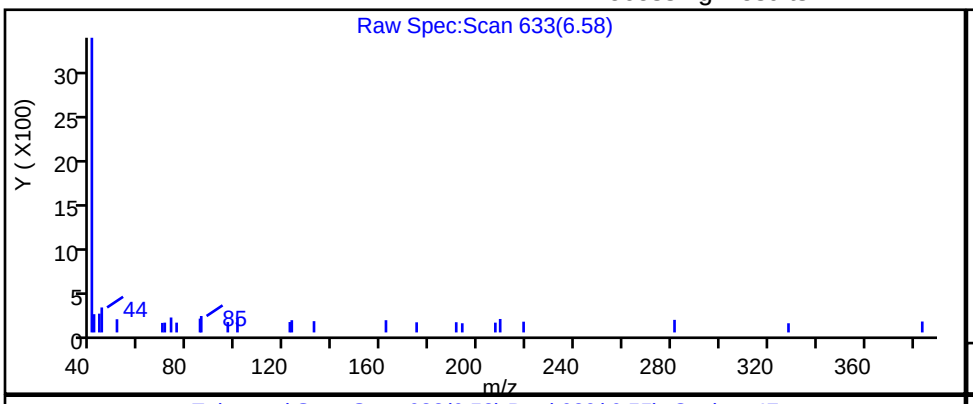
User Disabled Compound Report

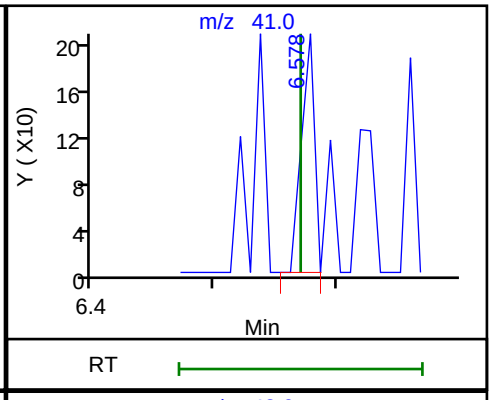
TestAmerica Edison

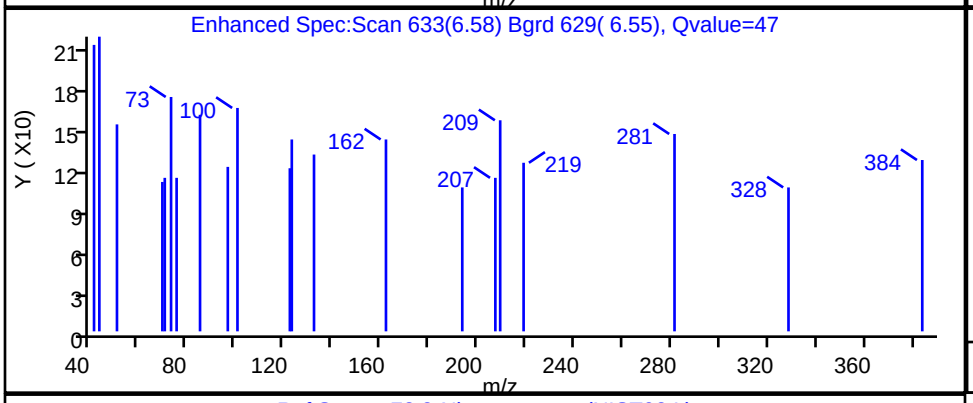
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

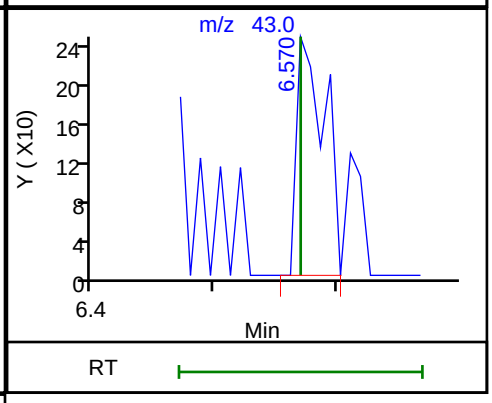
73 2-Nitropropane, CAS: 79-46-9

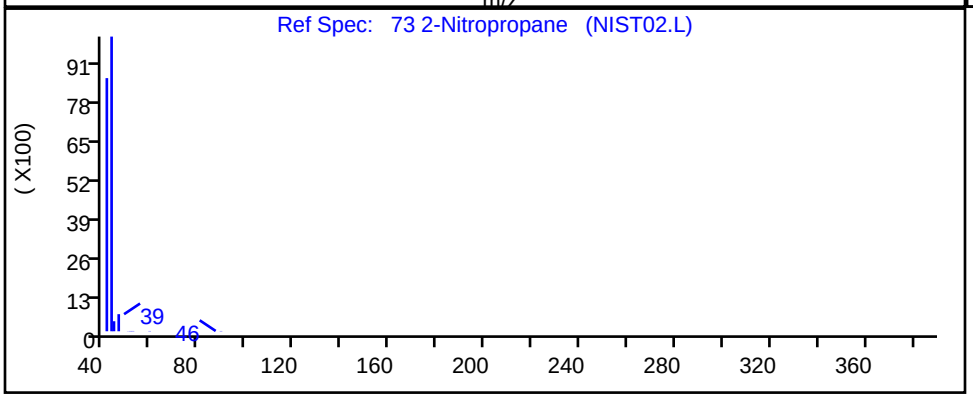
Processing Results











RT	Mass	Response	Amount
6.58	41.00	155	0.212127
6.57	43.00	394	

Reviewer: delpolitov, 08-Jul-2018 17:41:58

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

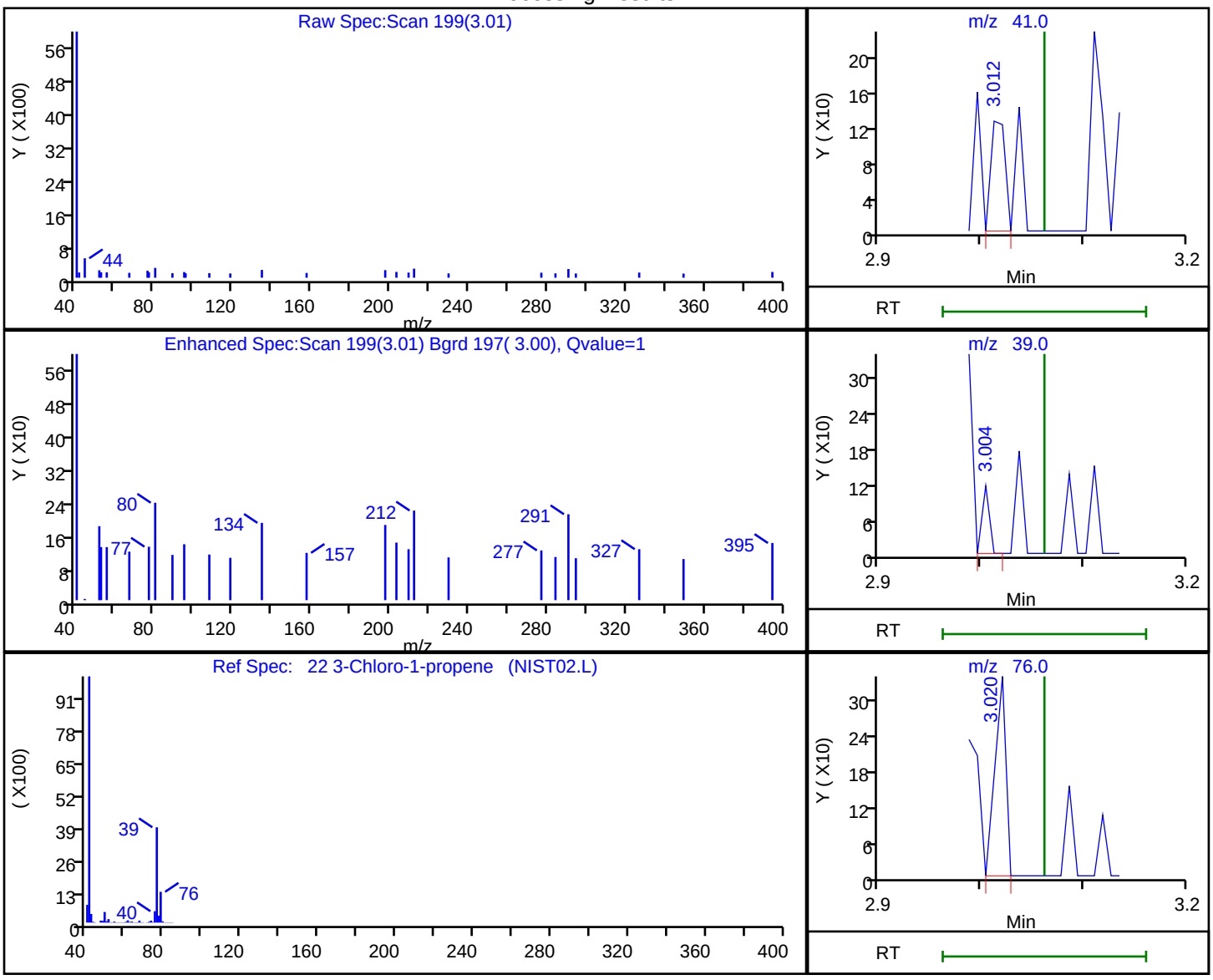
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.01	41.00	121	0.016574
3.00	39.00	56	
3.02	76.00	248	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

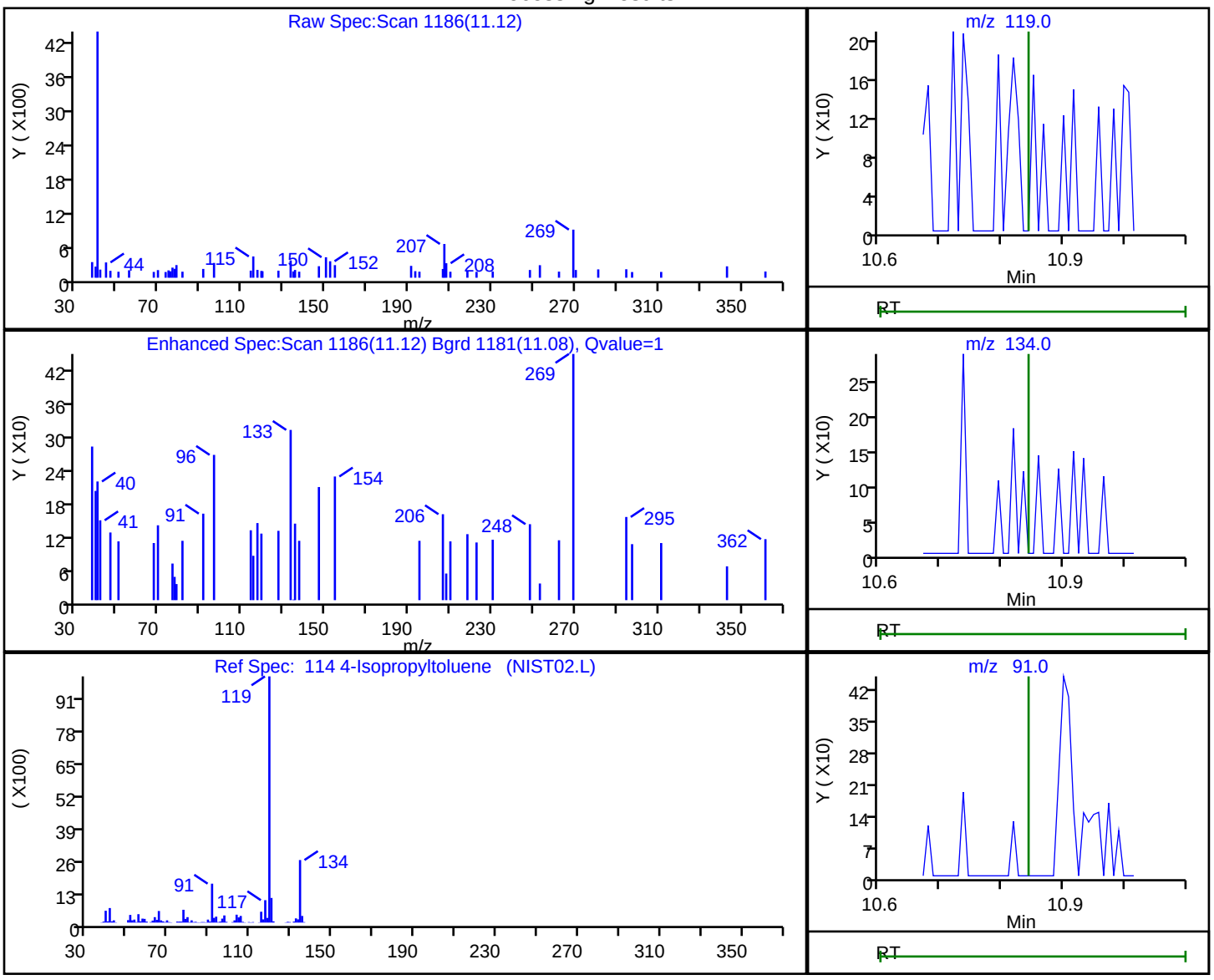
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.035044
11.12	134.00	55	
11.11	91.00	172	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

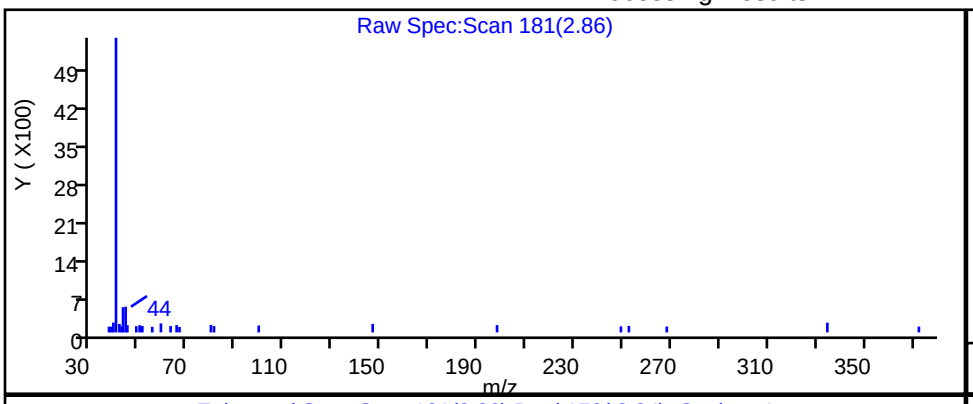
User Disabled Compound Report

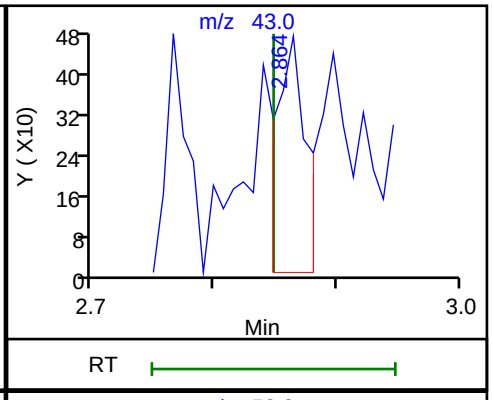
TestAmerica Edison

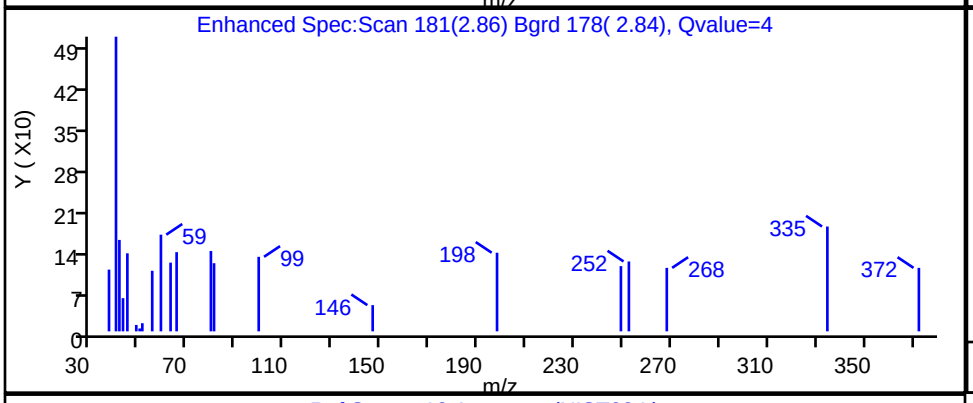
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

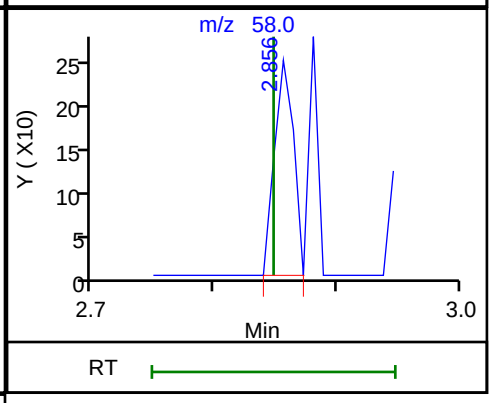
18 Acetone, CAS: 67-64-1

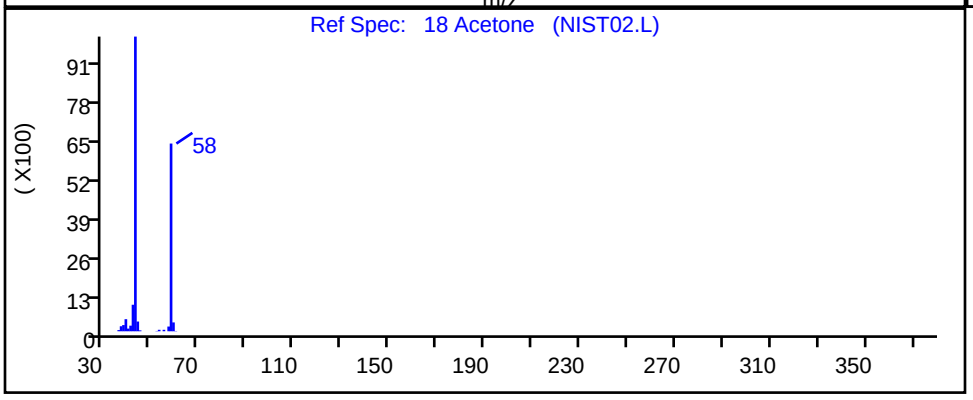
Processing Results











RT	Mass	Response	Amount
2.86	43.00	804	1.057880
2.86	58.00	267	

Reviewer: delpolitov, 08-Jul-2018 17:28:02

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

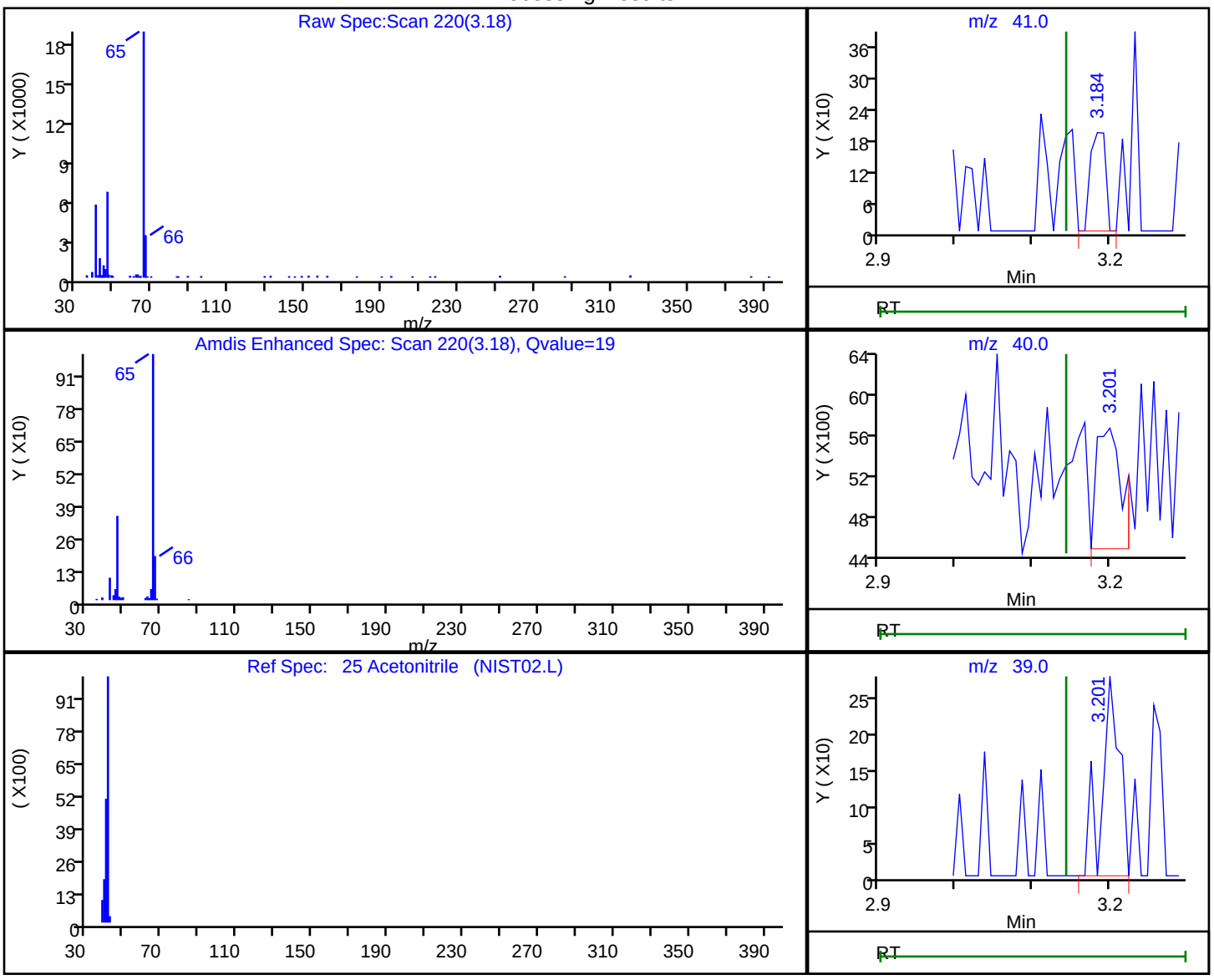
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.18	41.00	264	0.389556
3.20	40.00	2550	
3.20	39.00	450	
3.18	38.00	738	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

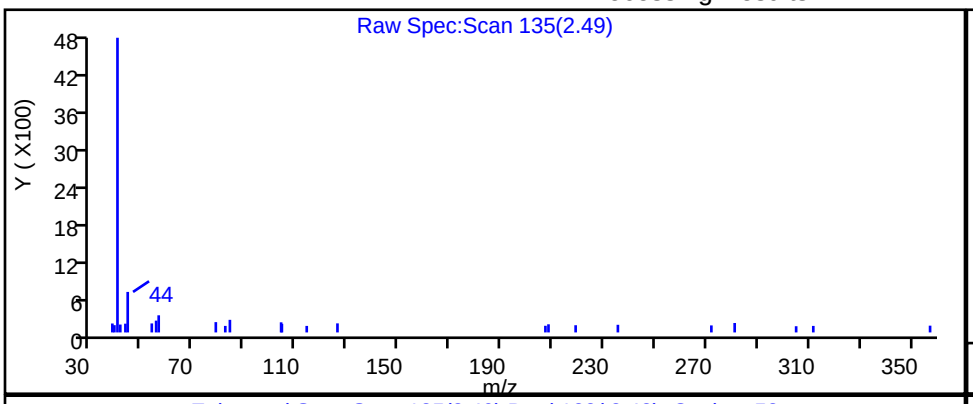
User Disabled Compound Report

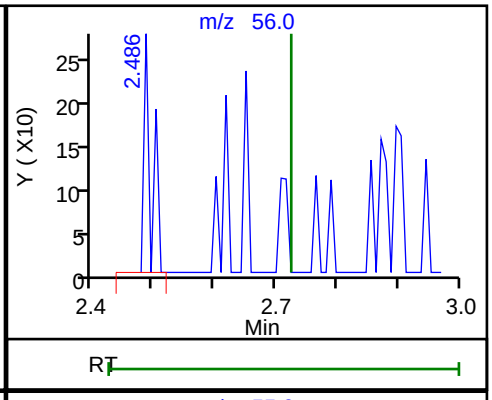
TestAmerica Edison

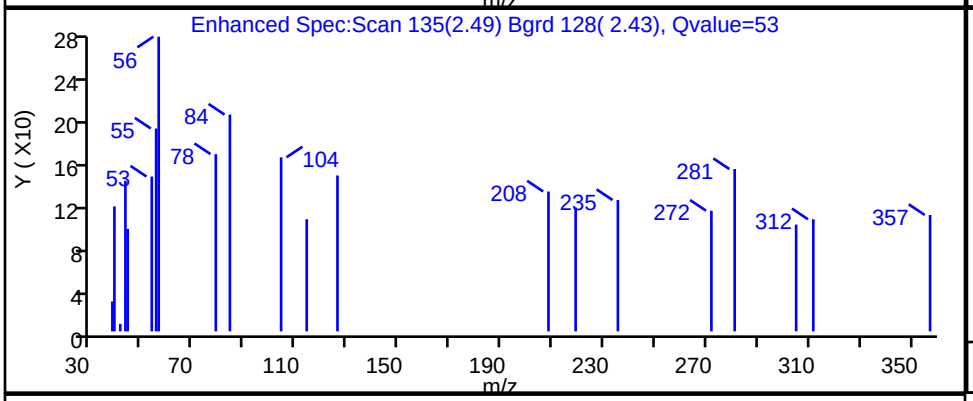
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

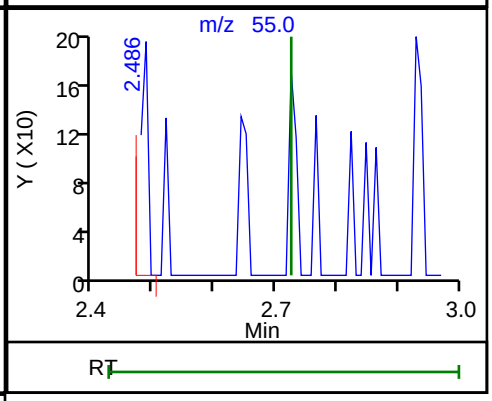
15 Acrolein, CAS: 107-02-8

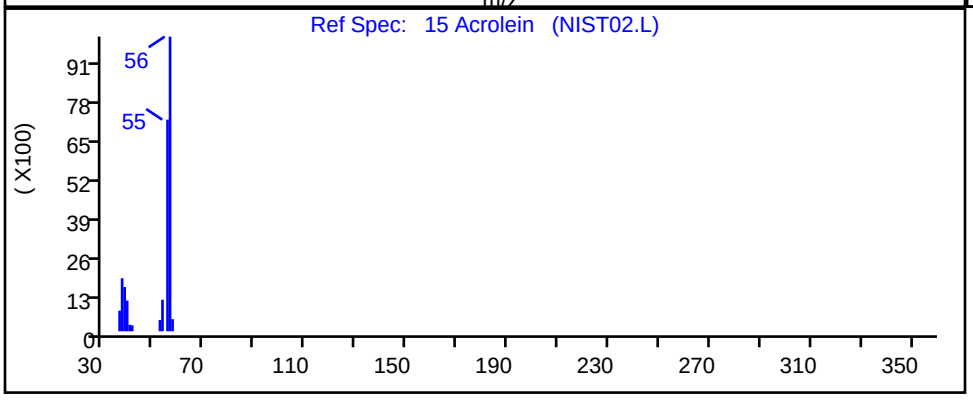
Processing Results











RT	Mass	Response	Amount
2.49	56.00	308	1.449360
2.49	55.00	203	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

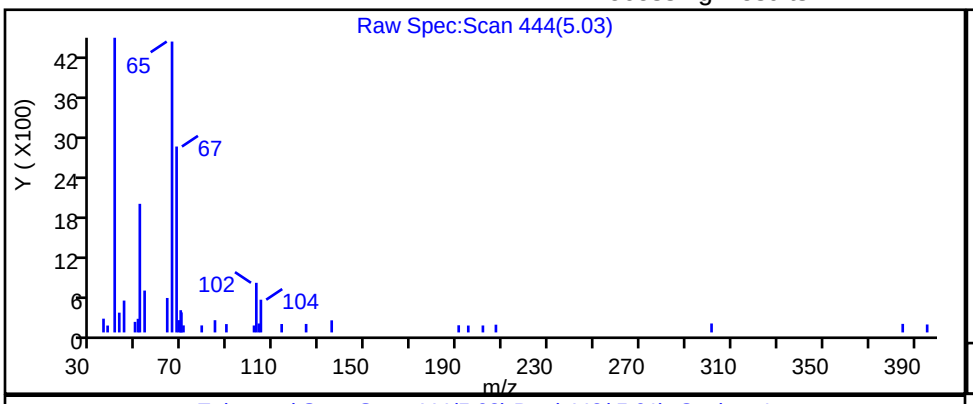
User Disabled Compound Report

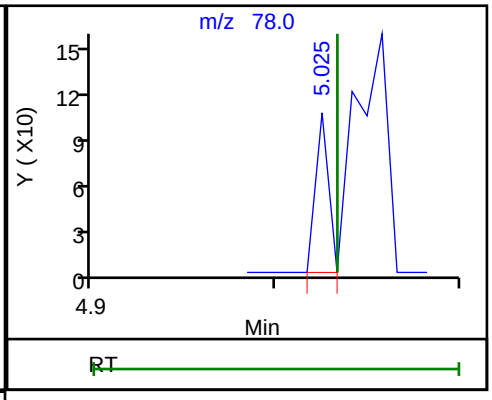
TestAmerica Edison

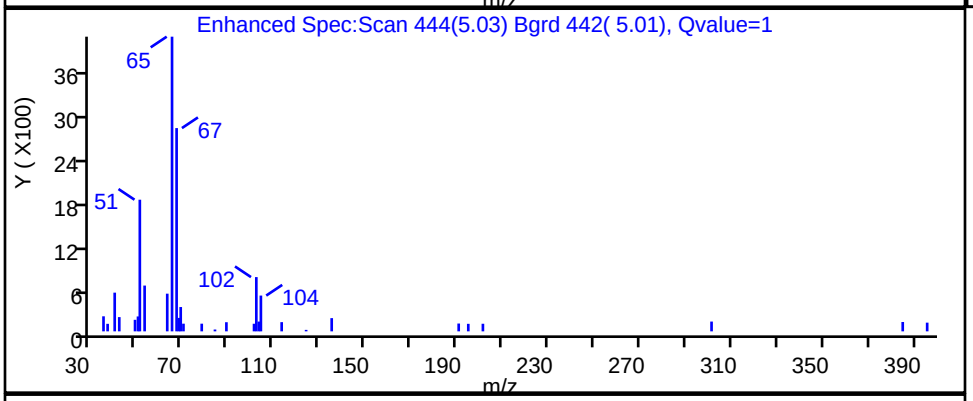
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

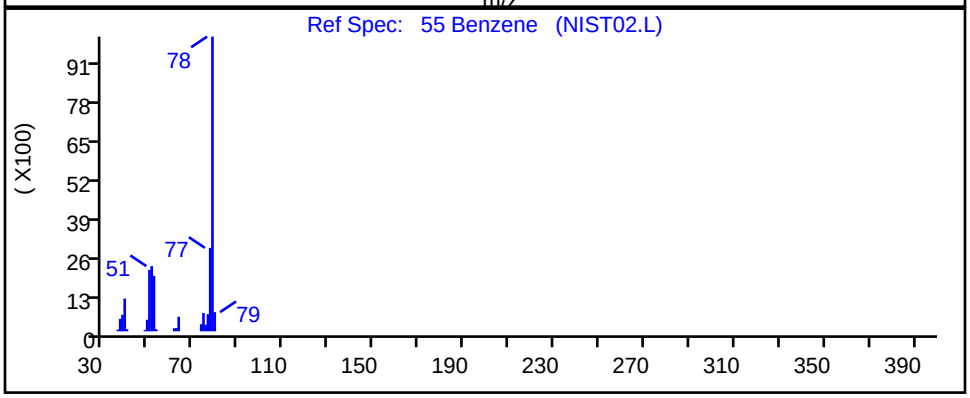
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
5.03	78.00	52	0.003313

Reviewer: delpolitov, 08-Jul-2018 17:28:12

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

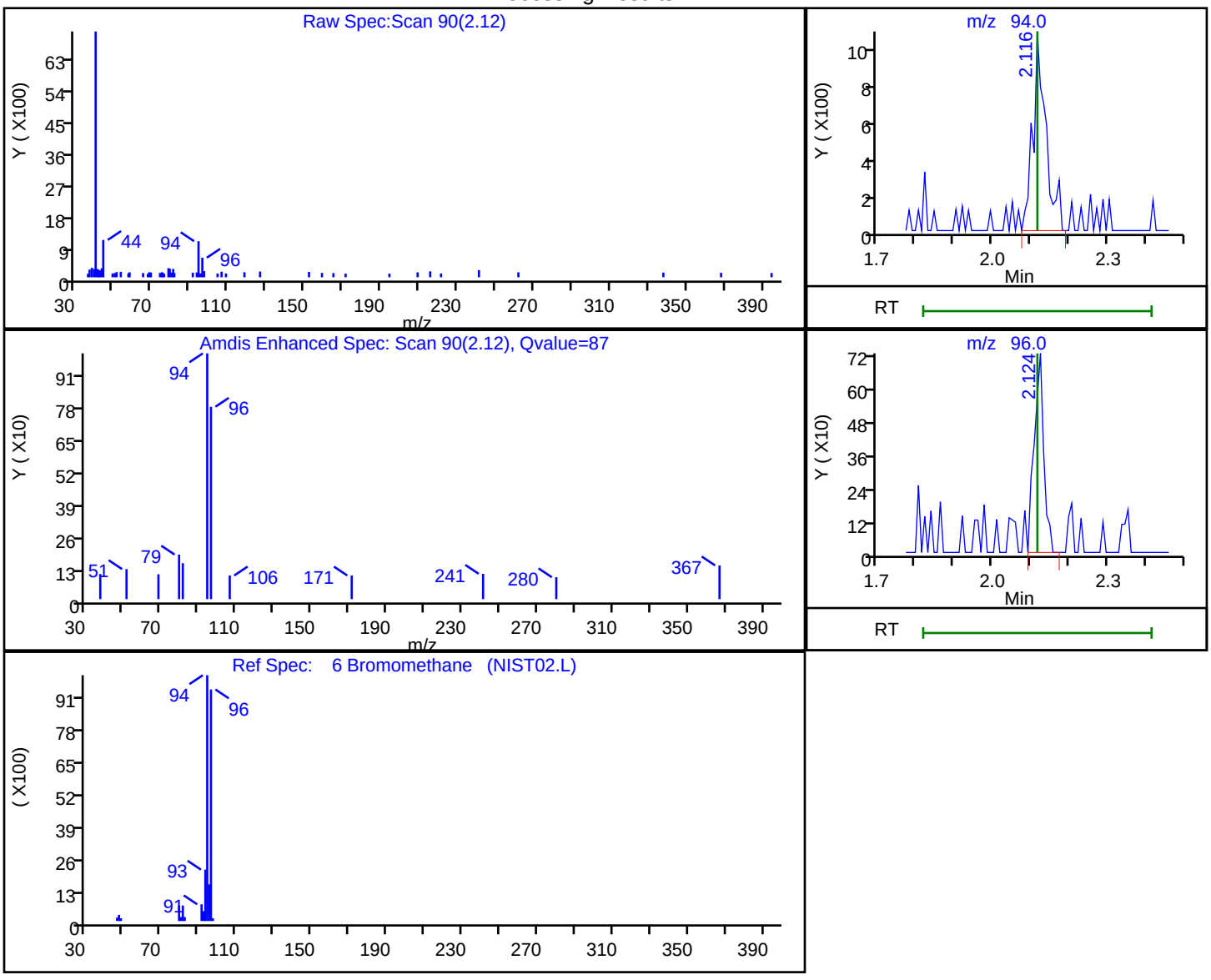
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.12	94.00	2459	0.511360
2.12	96.00	1264	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

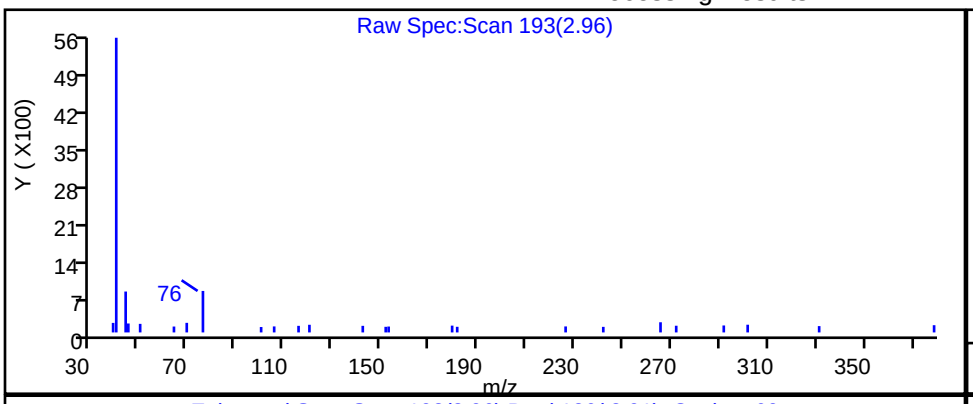
User Disabled Compound Report

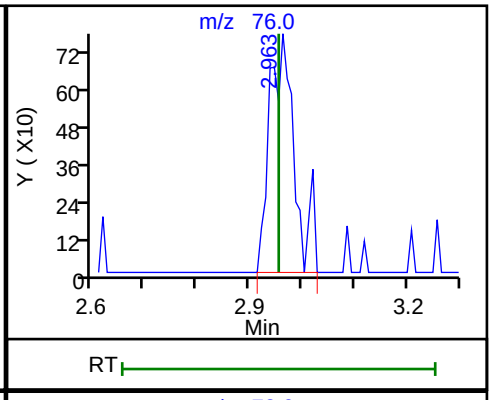
TestAmerica Edison

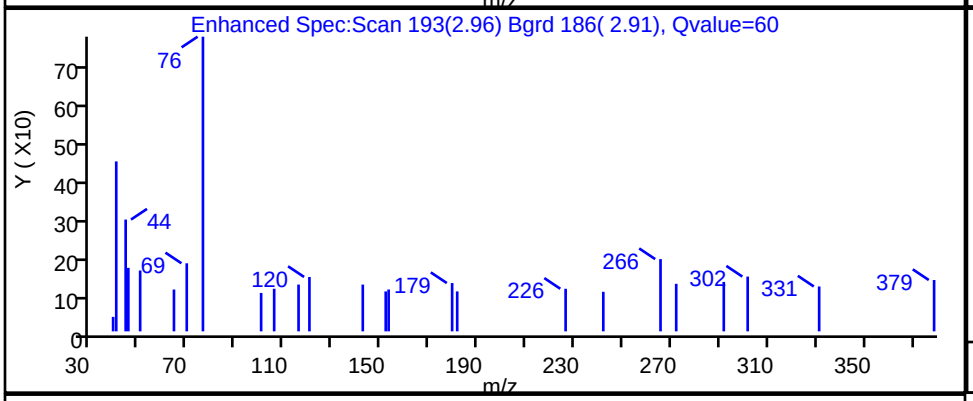
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

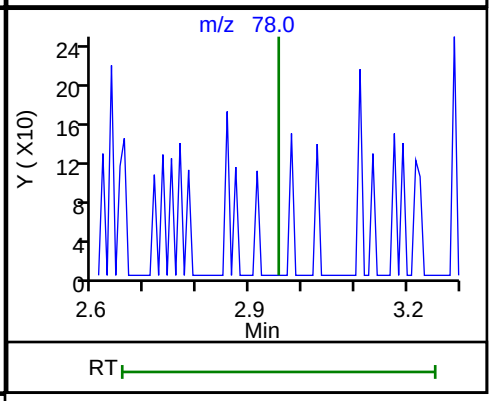
21 Carbon disulfide, CAS: 75-15-0

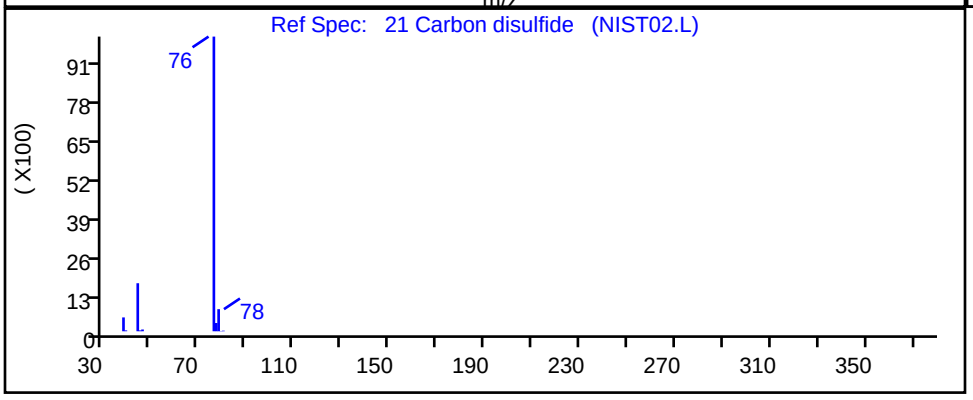
Processing Results











RT	Mass	Response	Amount
2.96	76.00	2561	0.167750
2.95	78.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

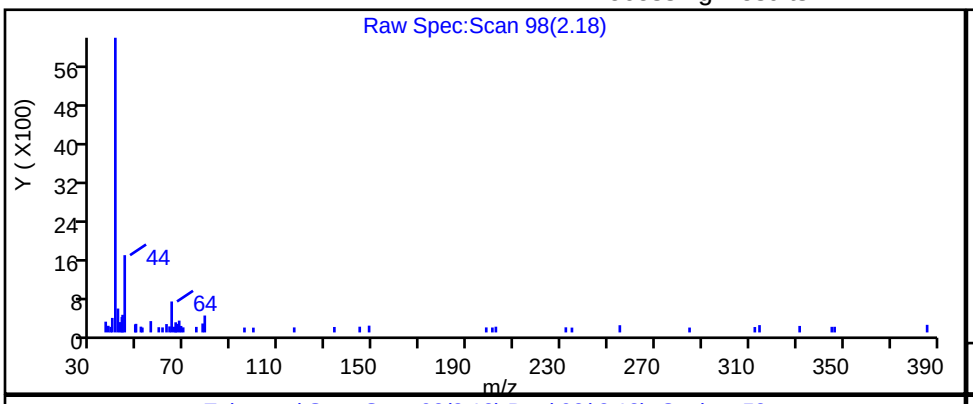
User Disabled Compound Report

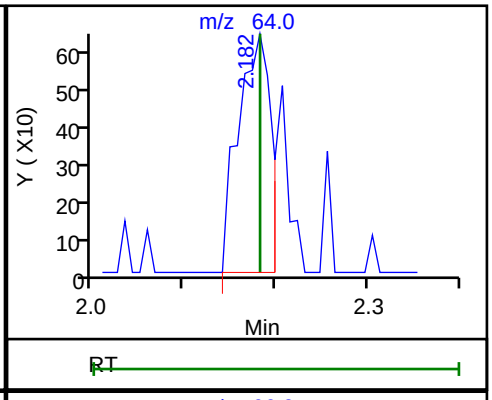
TestAmerica Edison

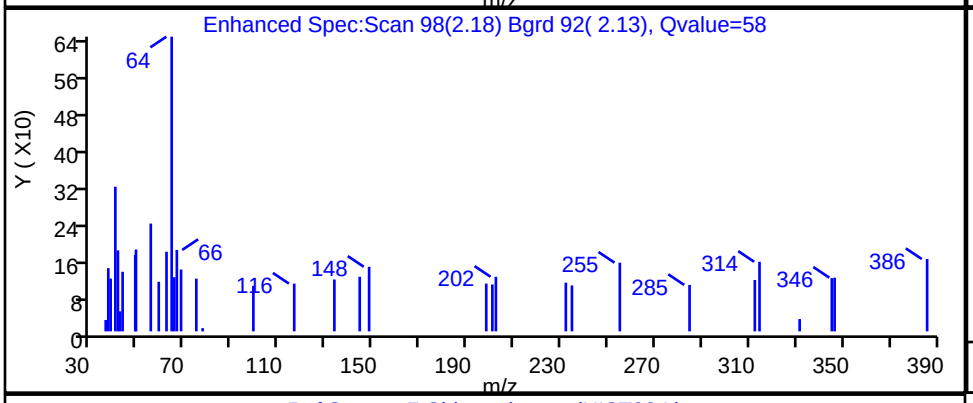
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

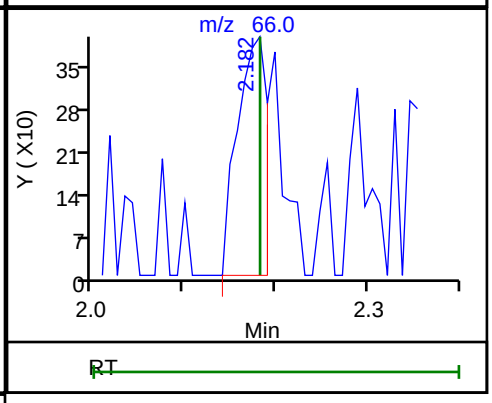
7 Chloroethane, CAS: 75-00-3

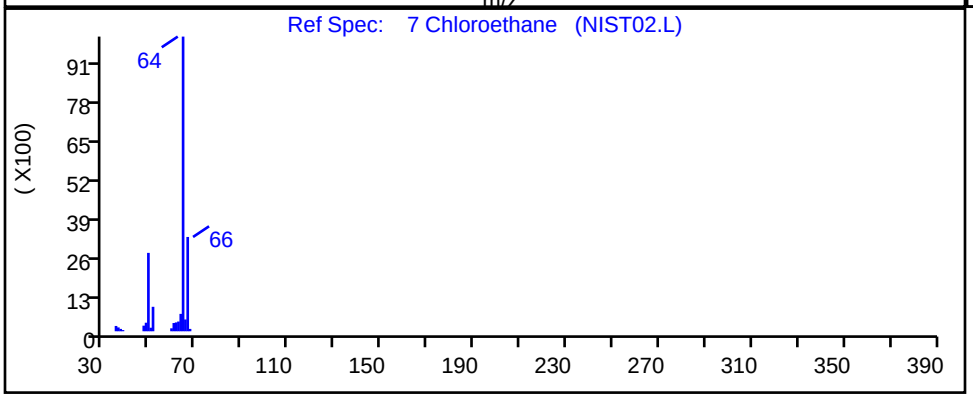
Processing Results











RT	Mass	Response	Amount
2.18	64.00	1609	0.352180
2.18	66.00	880	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

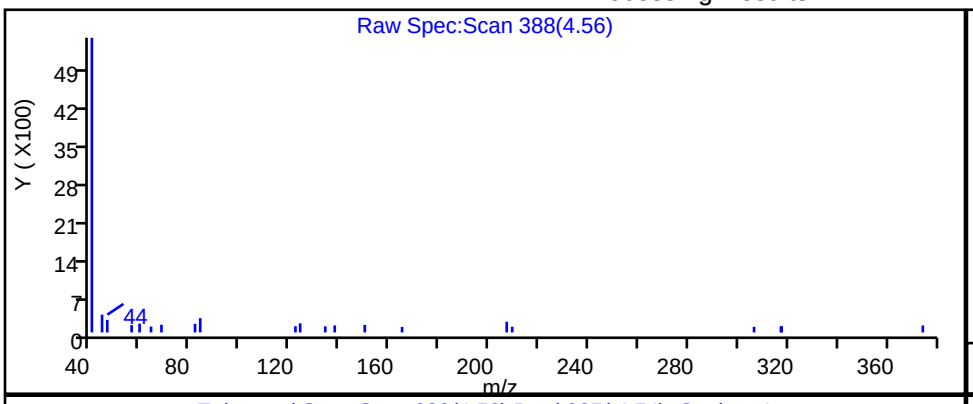
User Disabled Compound Report

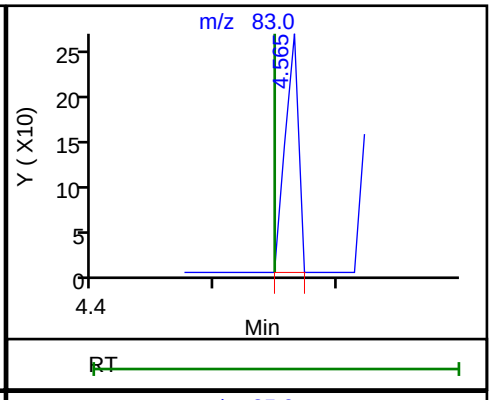
TestAmerica Edison

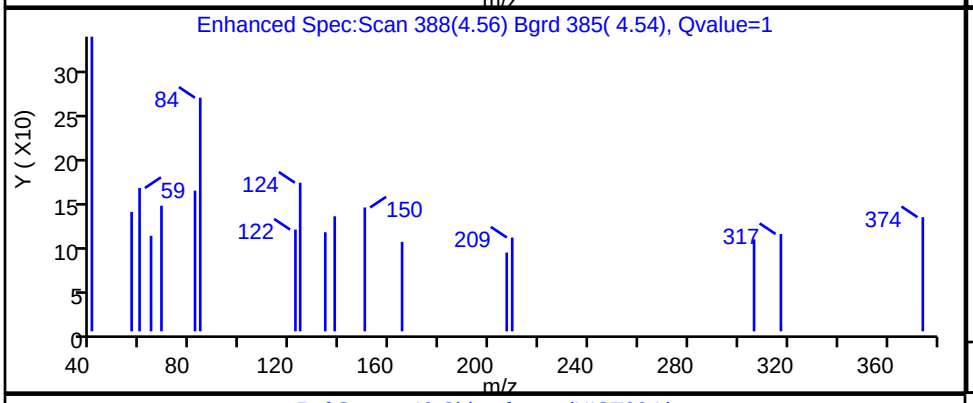
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

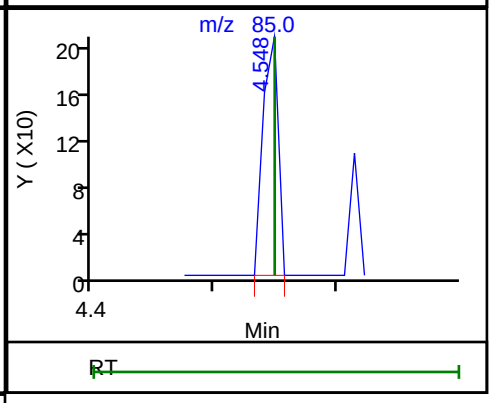
48 Chloroform, CAS: 67-66-3

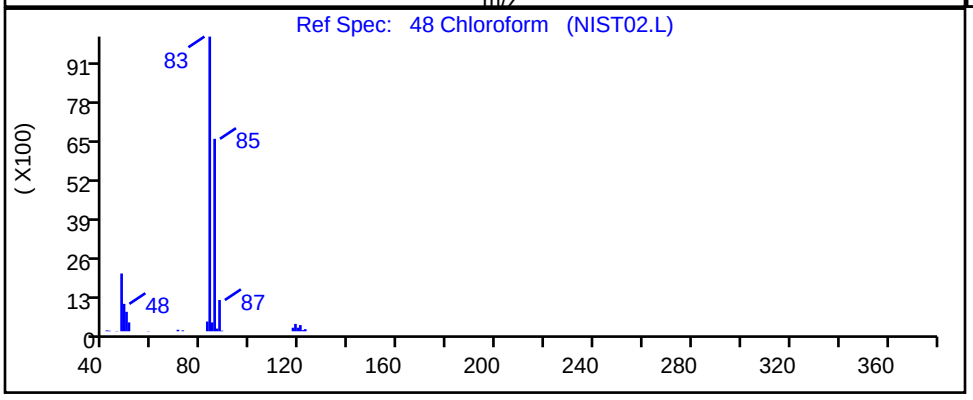
Processing Results











RT	Mass	Response	Amount
4.56	83.00	200	0.029537
4.55	85.00	182	

Reviewer: delpolitov, 08-Jul-2018 17:28:12

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

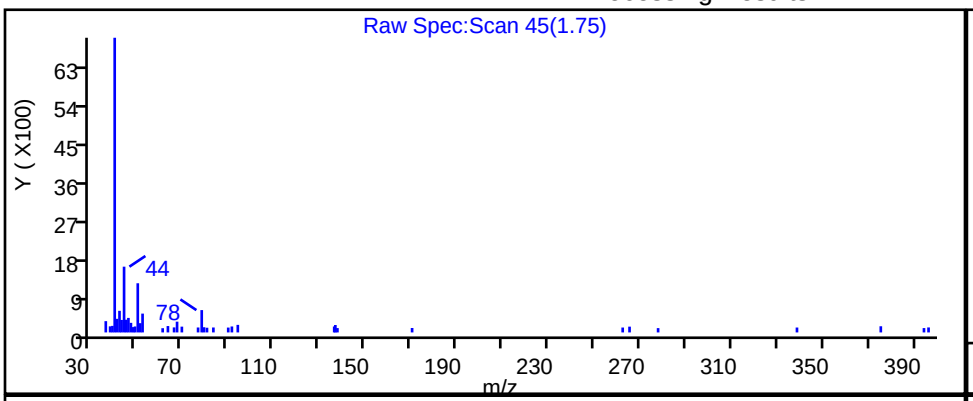
User Disabled Compound Report

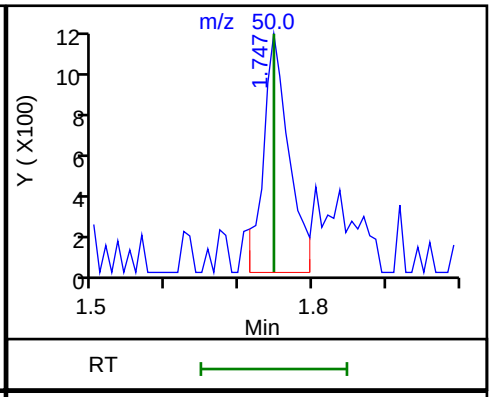
TestAmerica Edison

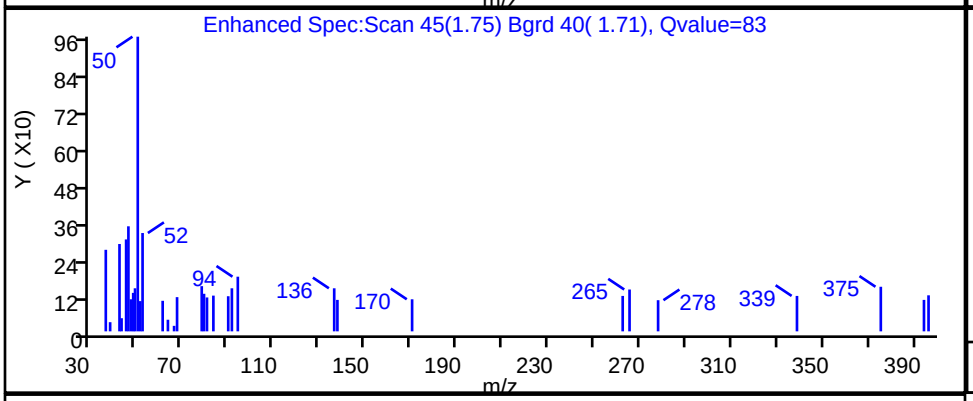
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

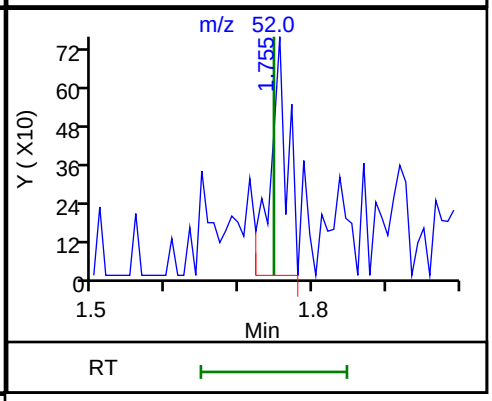
3 Chloromethane, CAS: 74-87-3

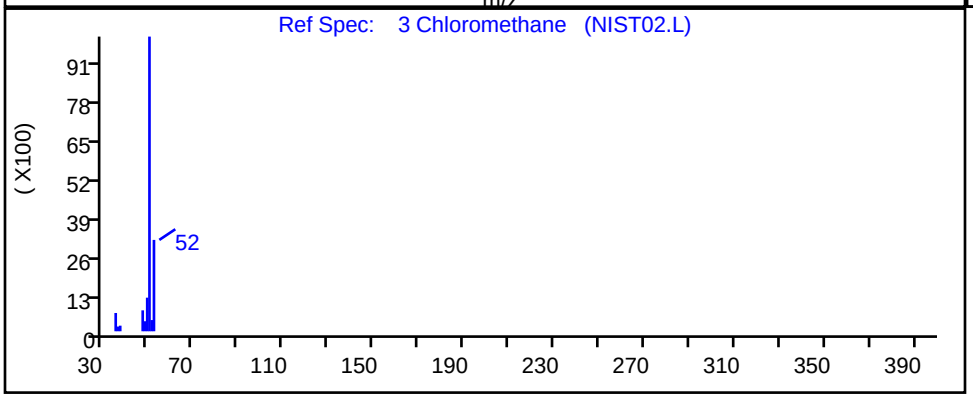
Processing Results











RT	Mass	Response	Amount
1.75	50.00	2848	0.389073
1.75	52.00	1225	

Reviewer: delpolitov, 08-Jul-2018 17:27:50

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

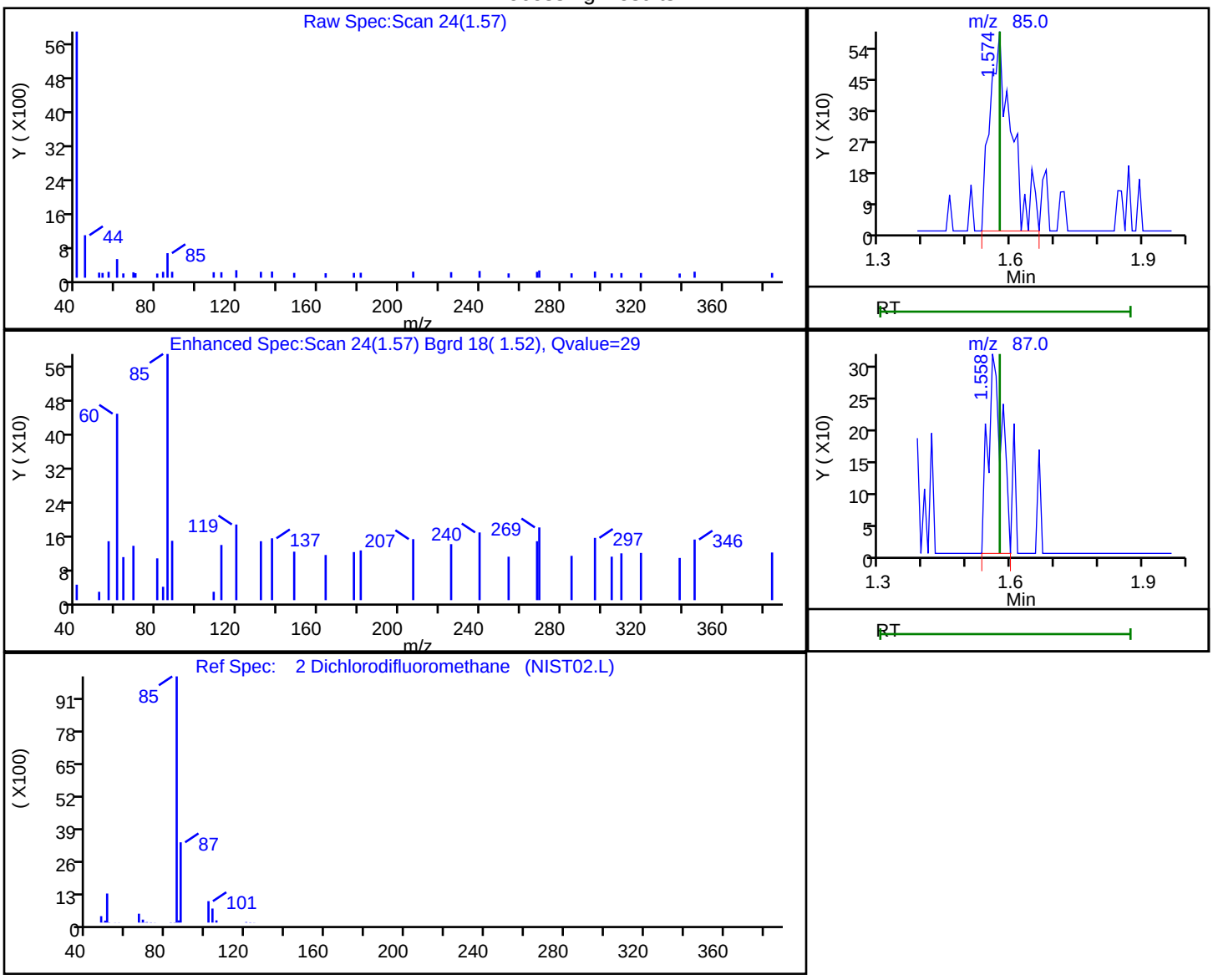
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.57	85.00	2000	0.323927
1.56	87.00	708	

Reviewer: delpolitov, 08-Jul-2018 17:27:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

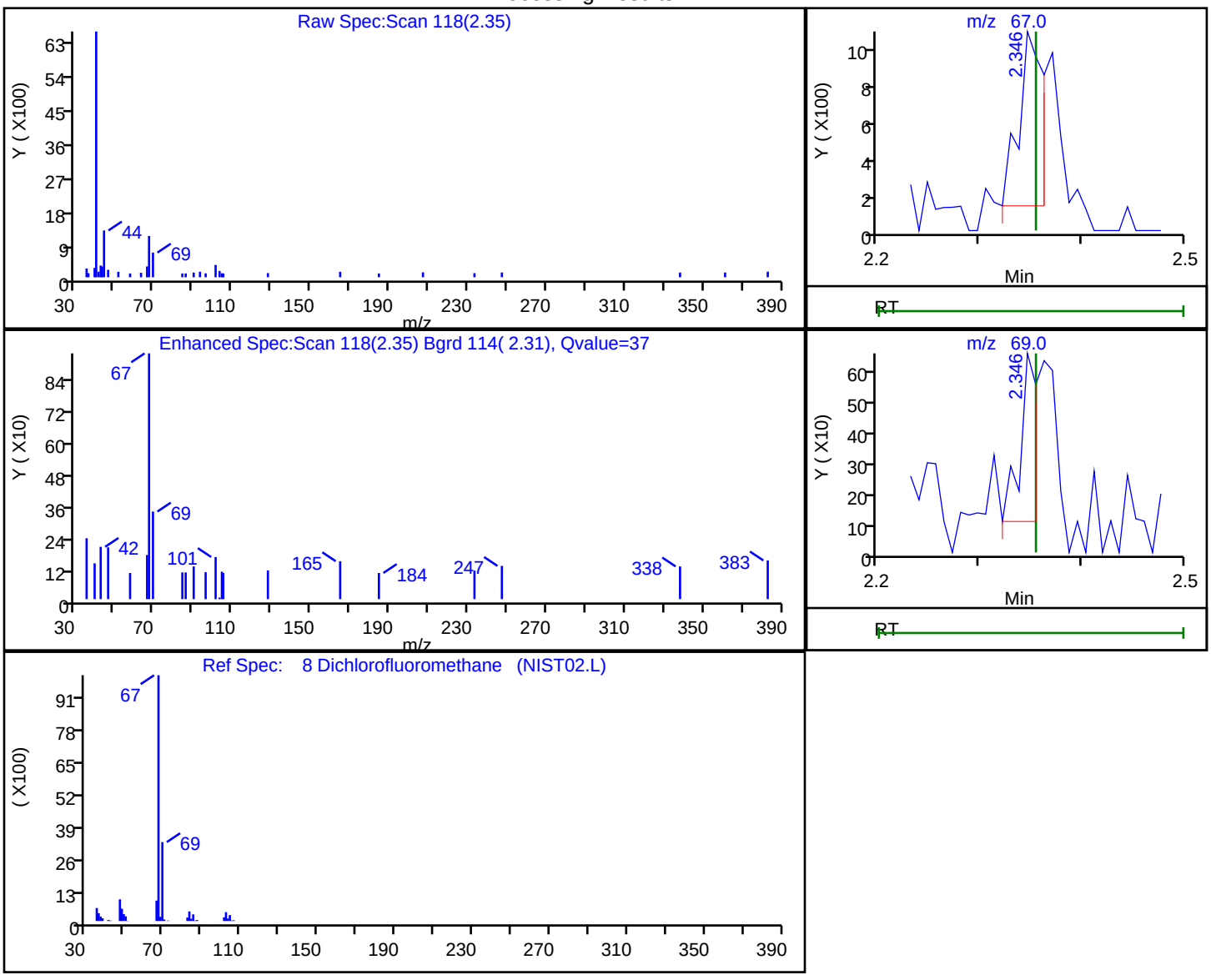
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.35	67.00	1585	0.183216
2.35	69.00	634	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

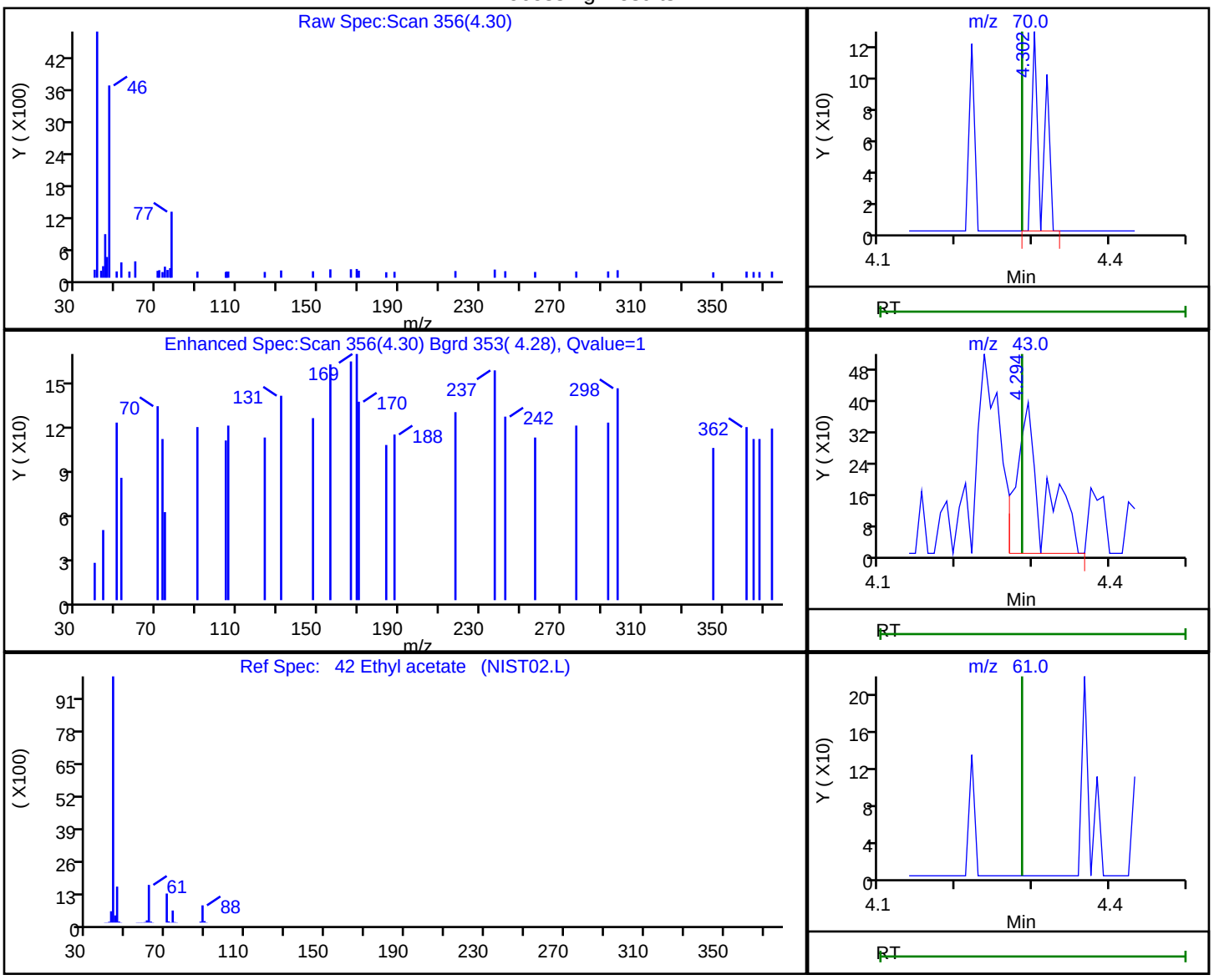
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.30	70.00	114	0.346025
4.29	43.00	966	
4.29	61.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

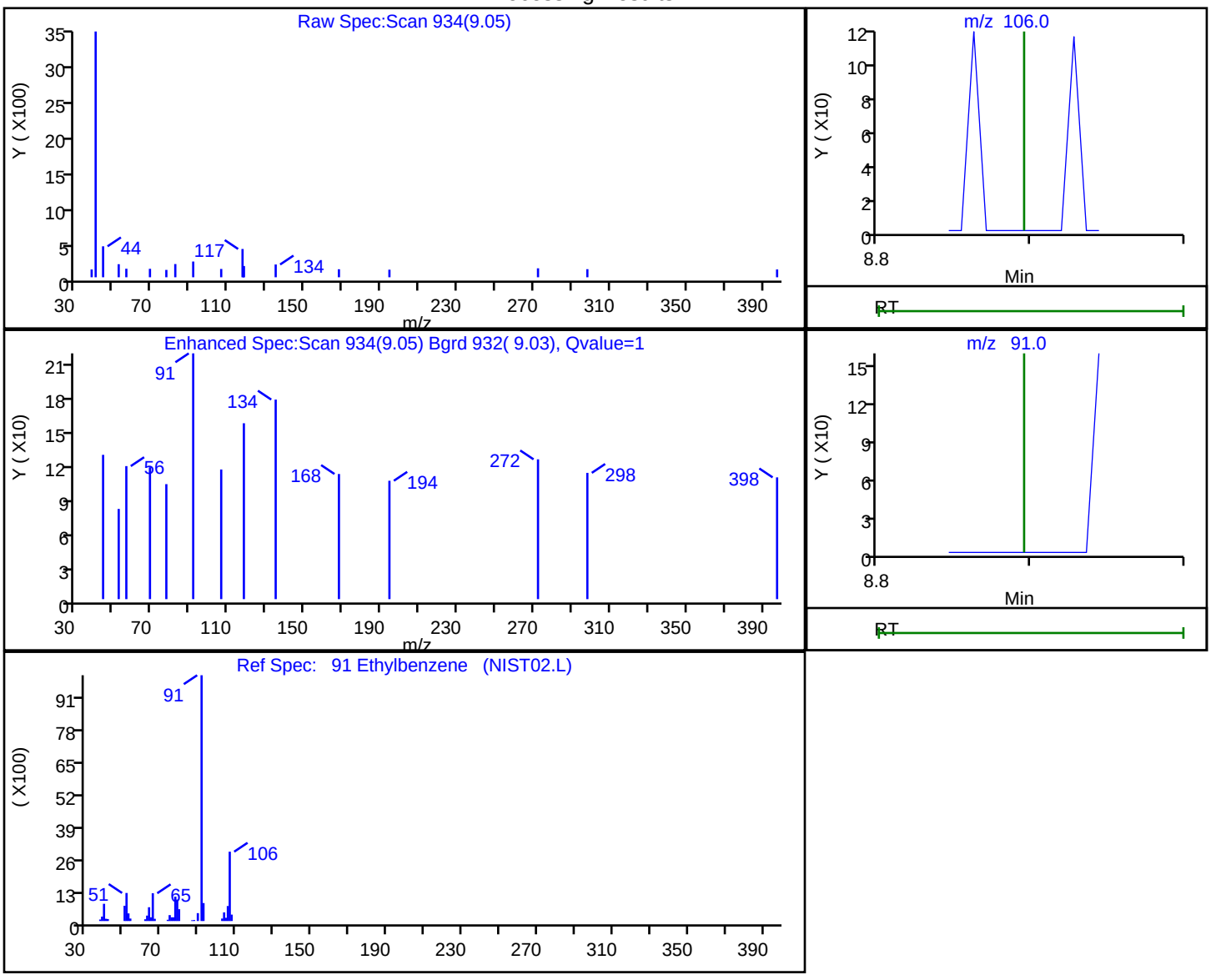
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

91 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.05	106.00	57	0.009880
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:11

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

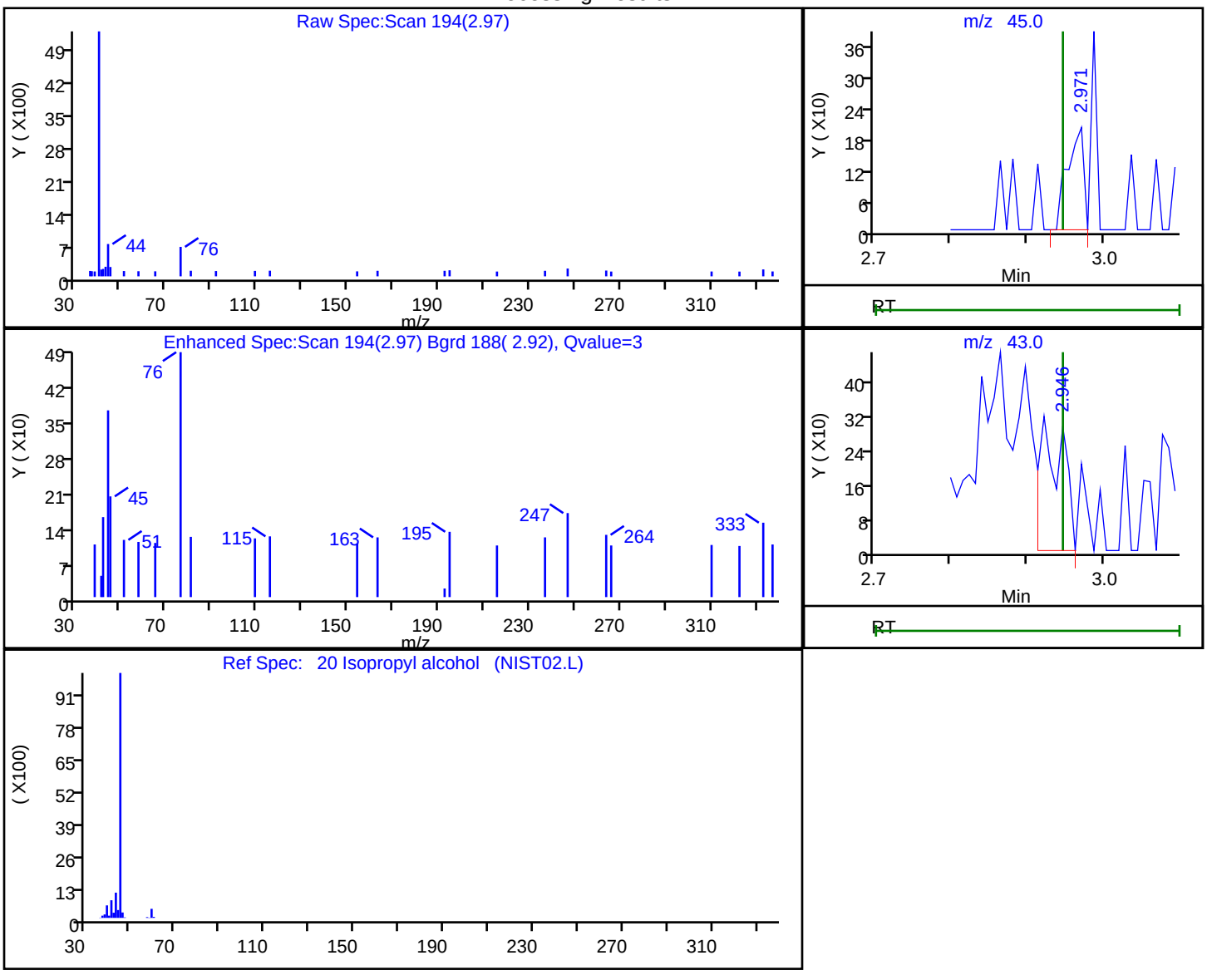
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
2.97	45.00	296	2.726594
2.95	43.00	658	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

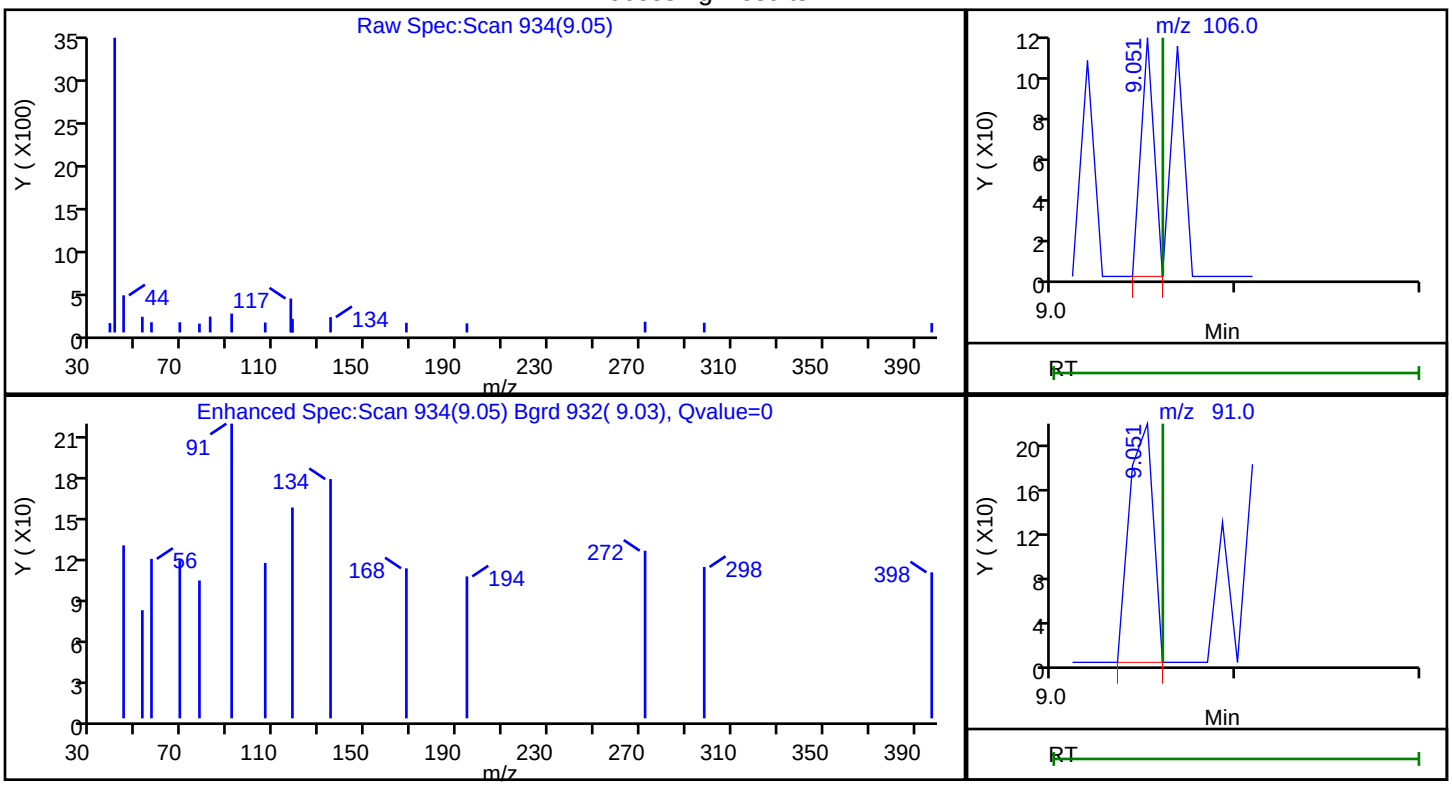
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
9.05	106.00	57	0.008293
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

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

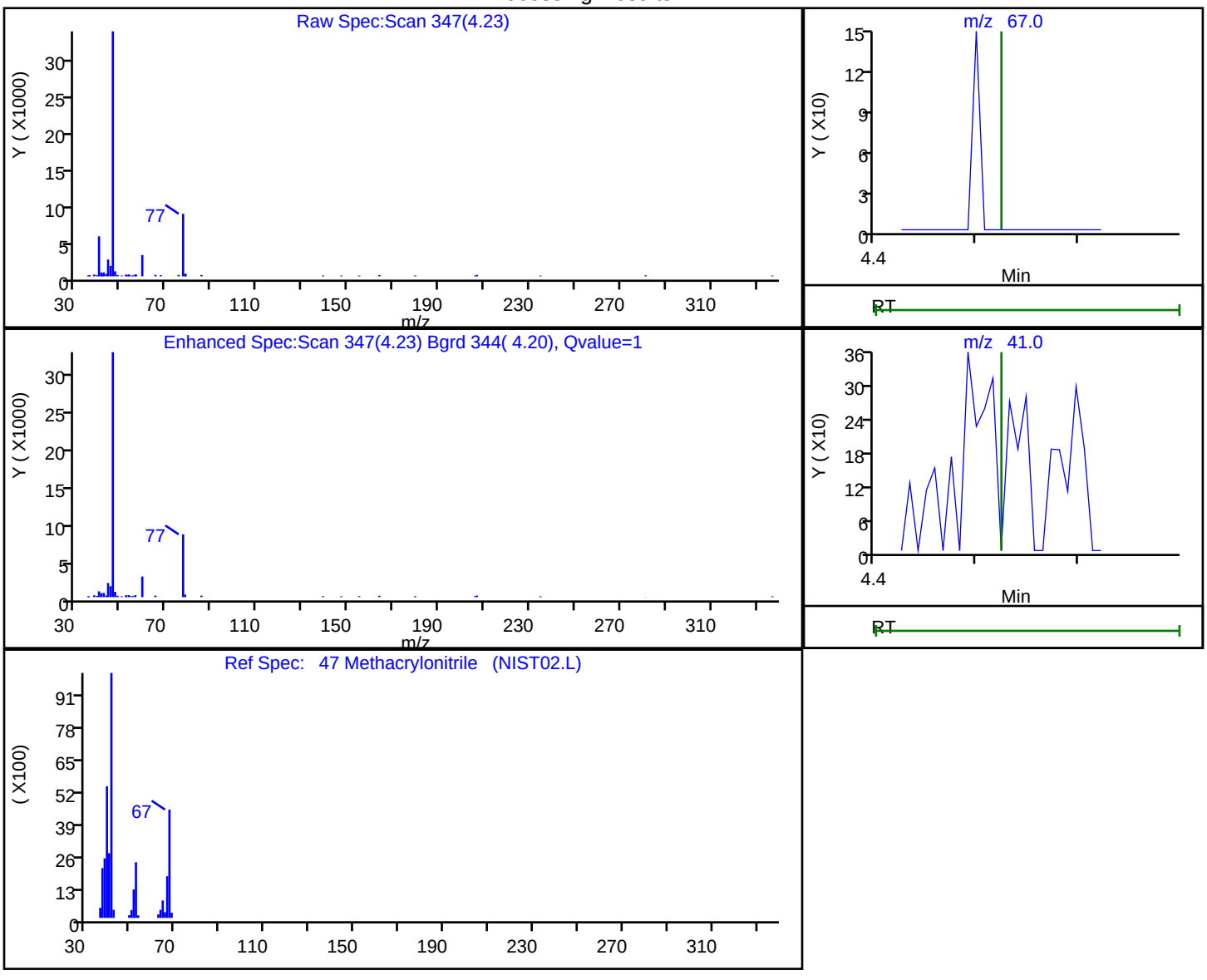
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

47 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
4.23	67.00	74	0.053985
4.23	41.00	1950	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

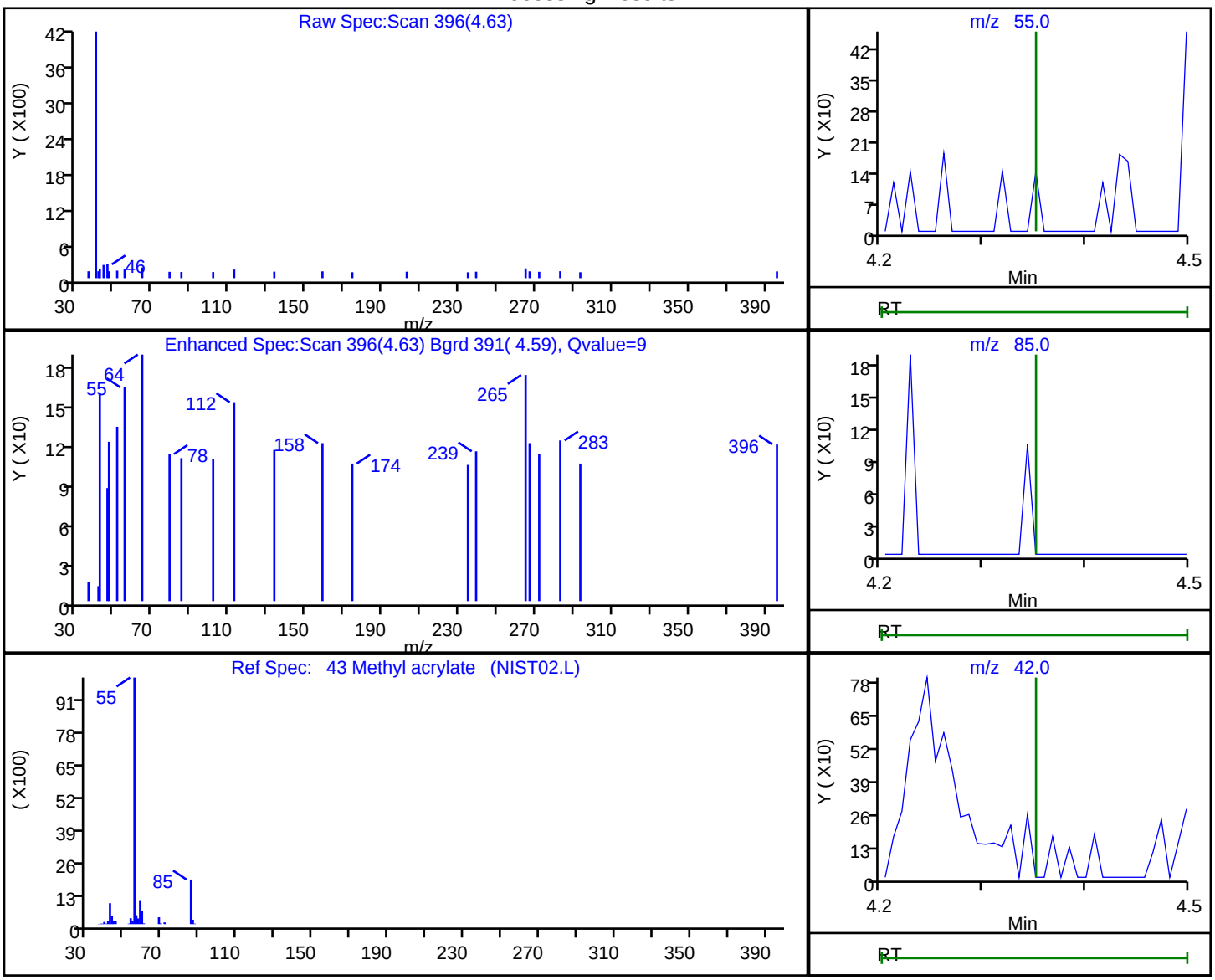
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
4.63	55.00	193	0.079242
4.61	85.00	105	
4.65	42.00	309	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

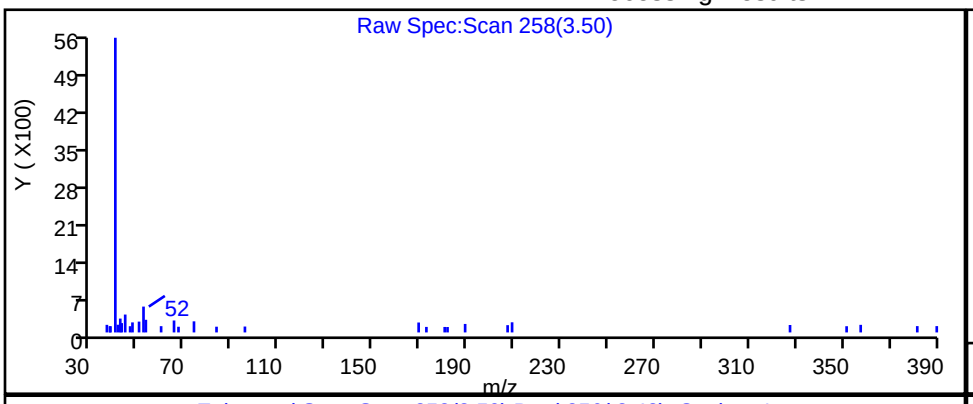
User Disabled Compound Report

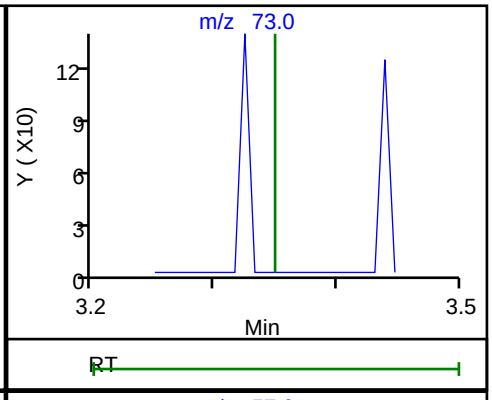
TestAmerica Edison

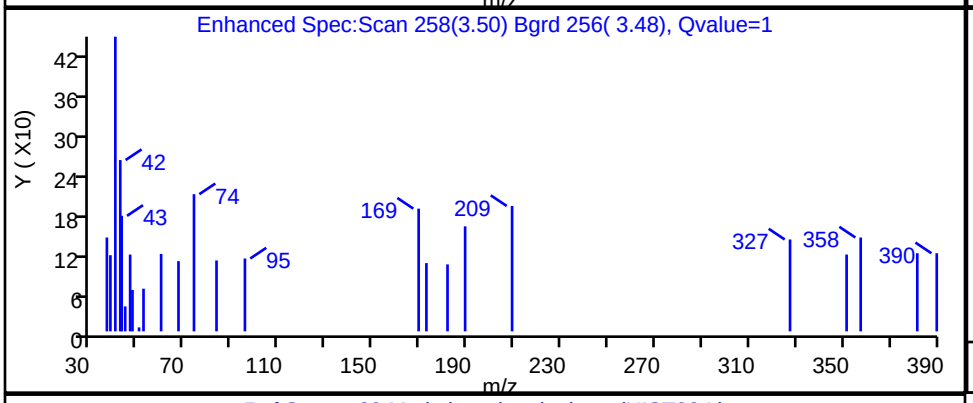
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

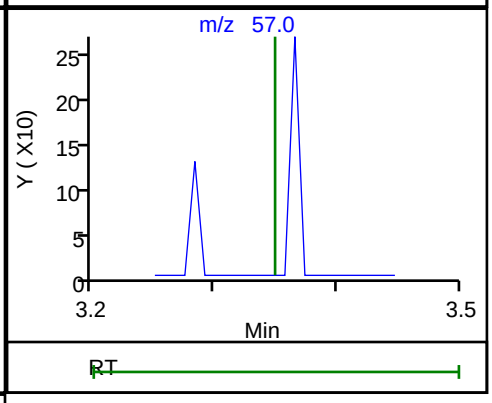
29 Methyl tert-butyl ether, CAS: 1634-04-4

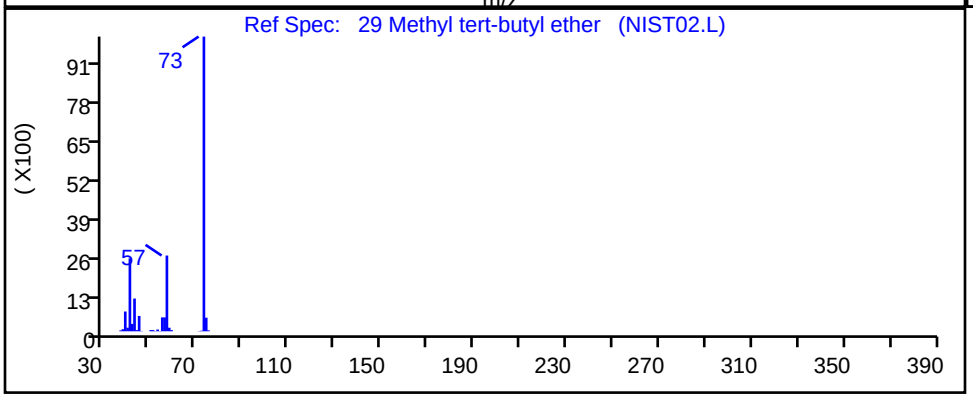
Processing Results











RT	Mass	Response	Amount
3.50	73.00	175	0.015479
3.35	57.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03

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

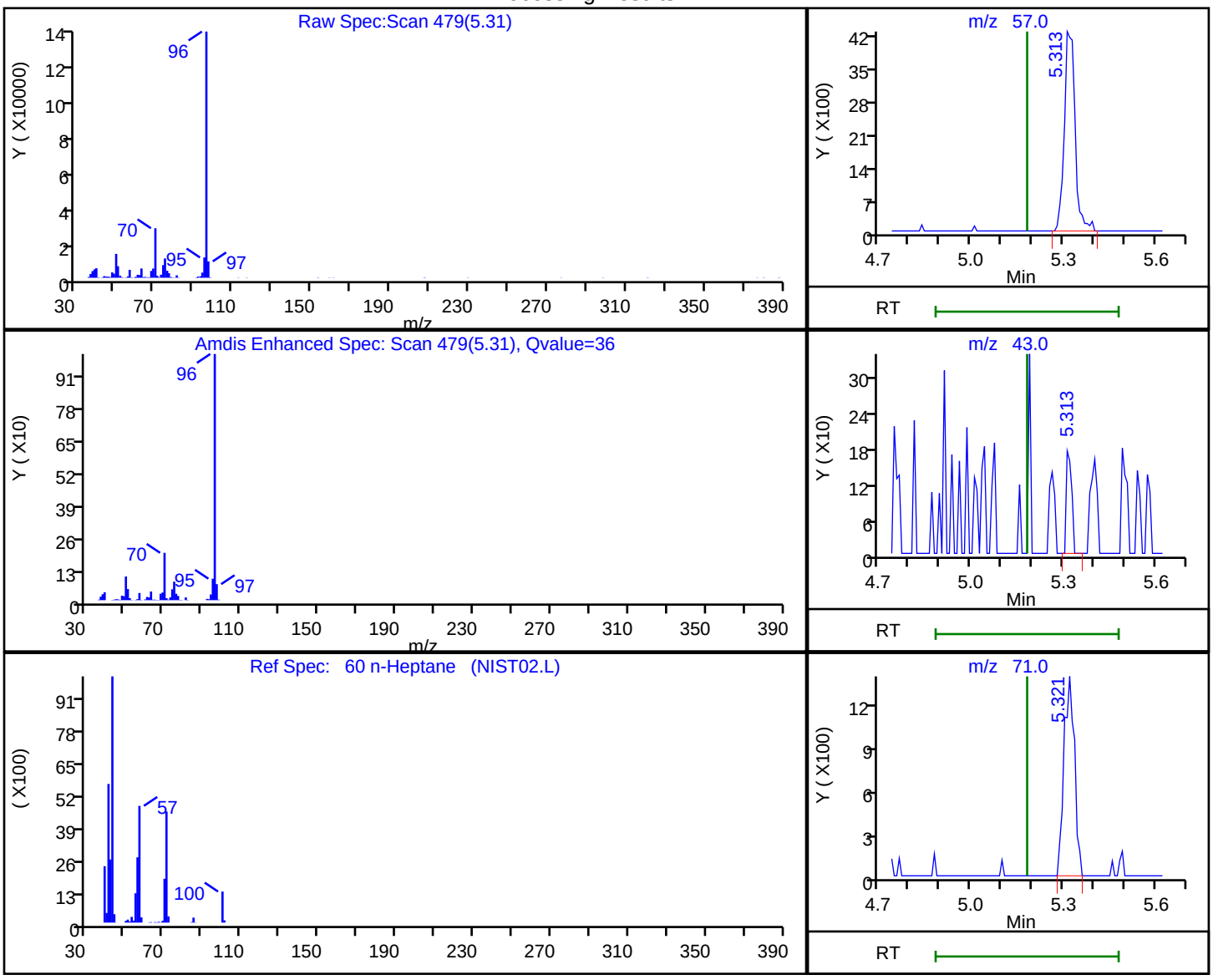
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.31	57.00	10516	3.554515
5.31	43.00	212	
5.32	71.00	3240	

Reviewer: delpolitov, 08-Jul-2018 17:41:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

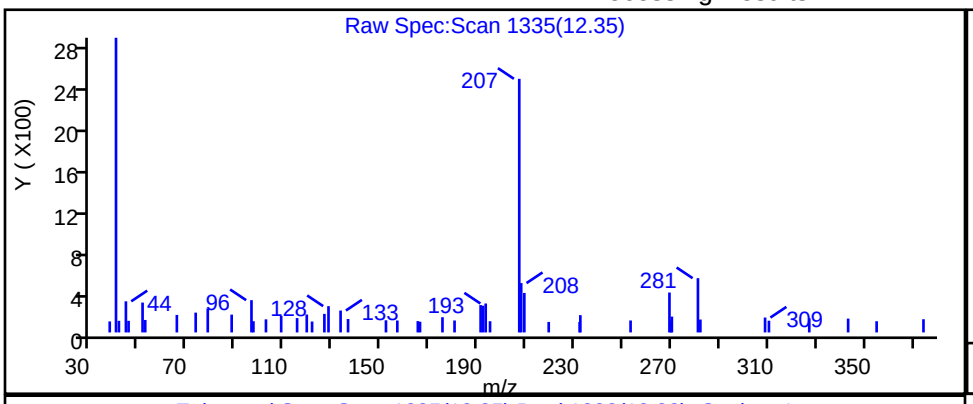
User Disabled Compound Report

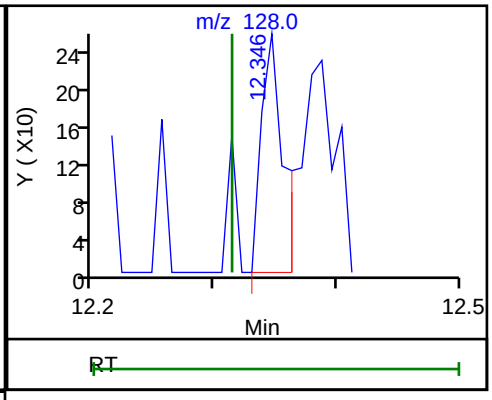
TestAmerica Edison

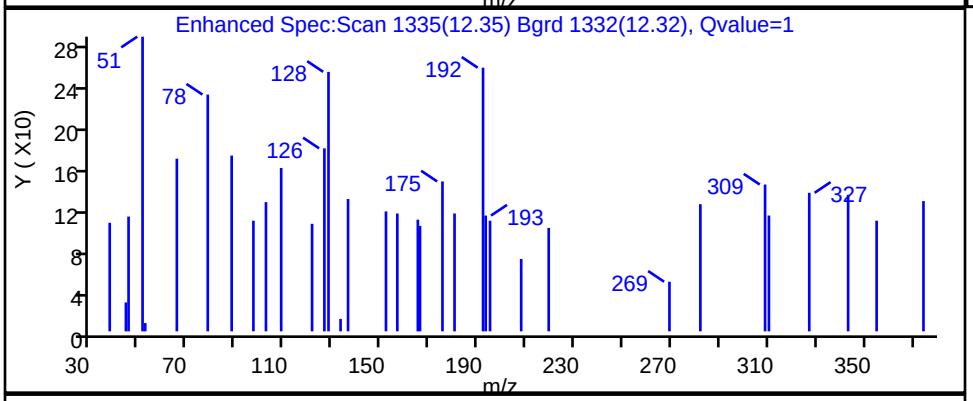
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

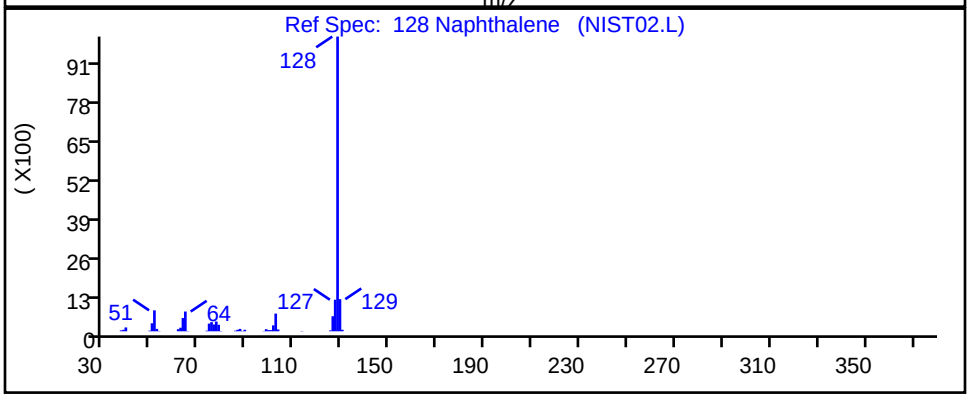
128 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
12.35	128.00	315	0.026266

Reviewer: delpolitov, 08-Jul-2018 17:42:22

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

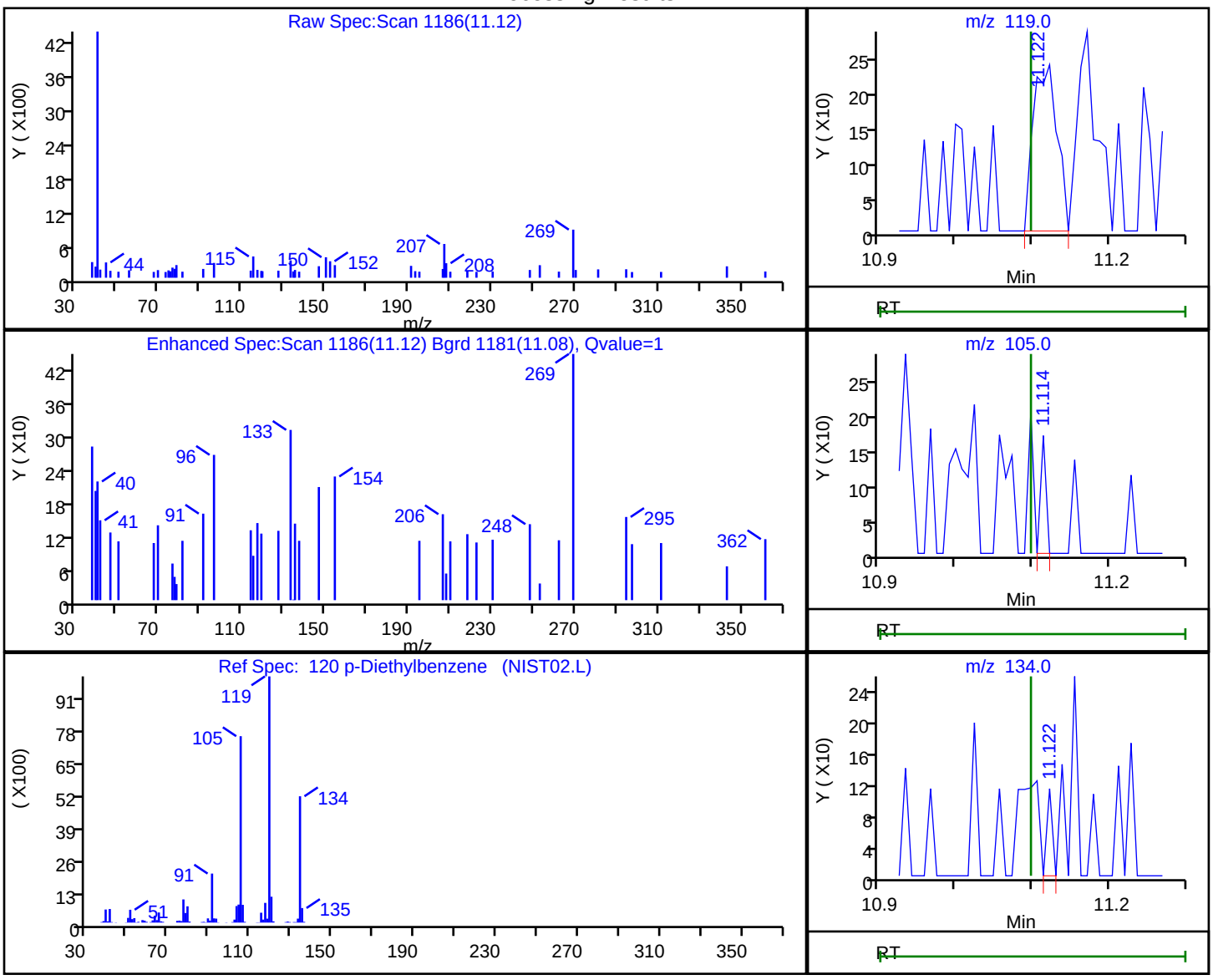
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.056918
11.11	105.00	84	
11.12	134.00	55	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

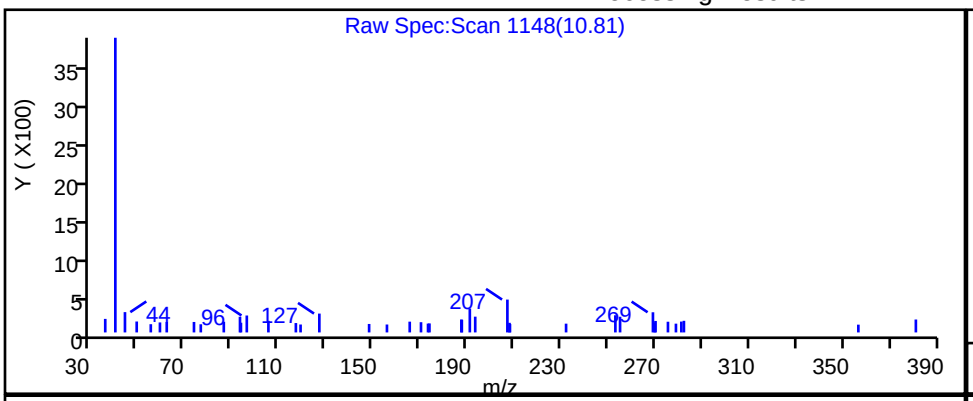
User Disabled Compound Report

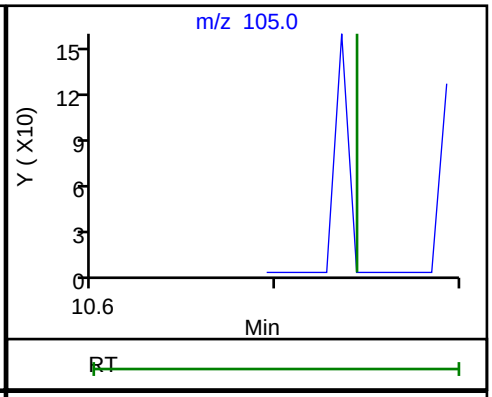
TestAmerica Edison

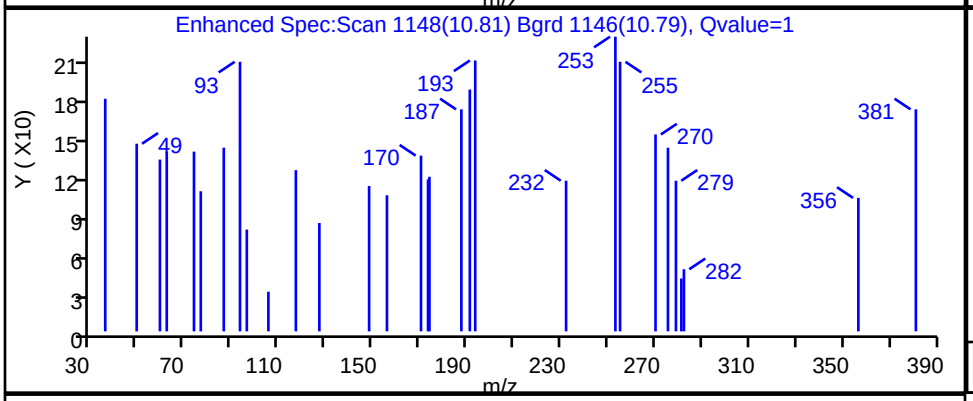
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

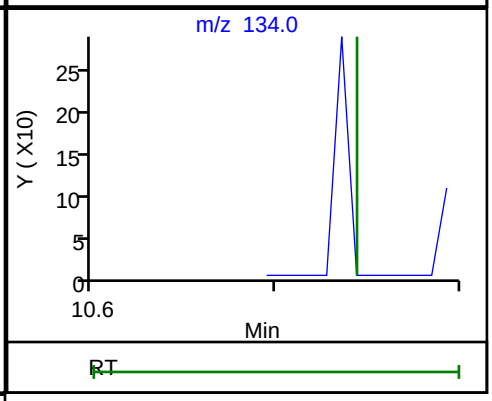
113 sec-Butylbenzene, CAS: 135-98-8

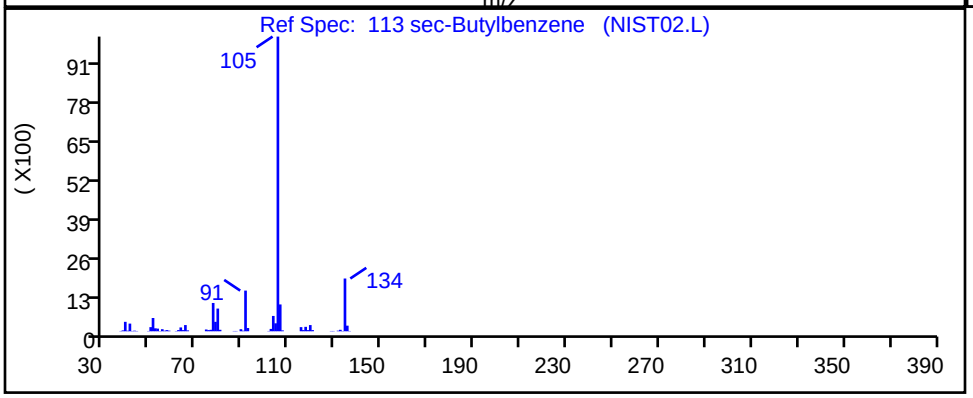
Processing Results











RT	Mass	Response	Amount
10.81	105.00	74	0.004295
10.82	134.00	89	

Reviewer: delpolitov, 08-Jul-2018 17:42:19

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

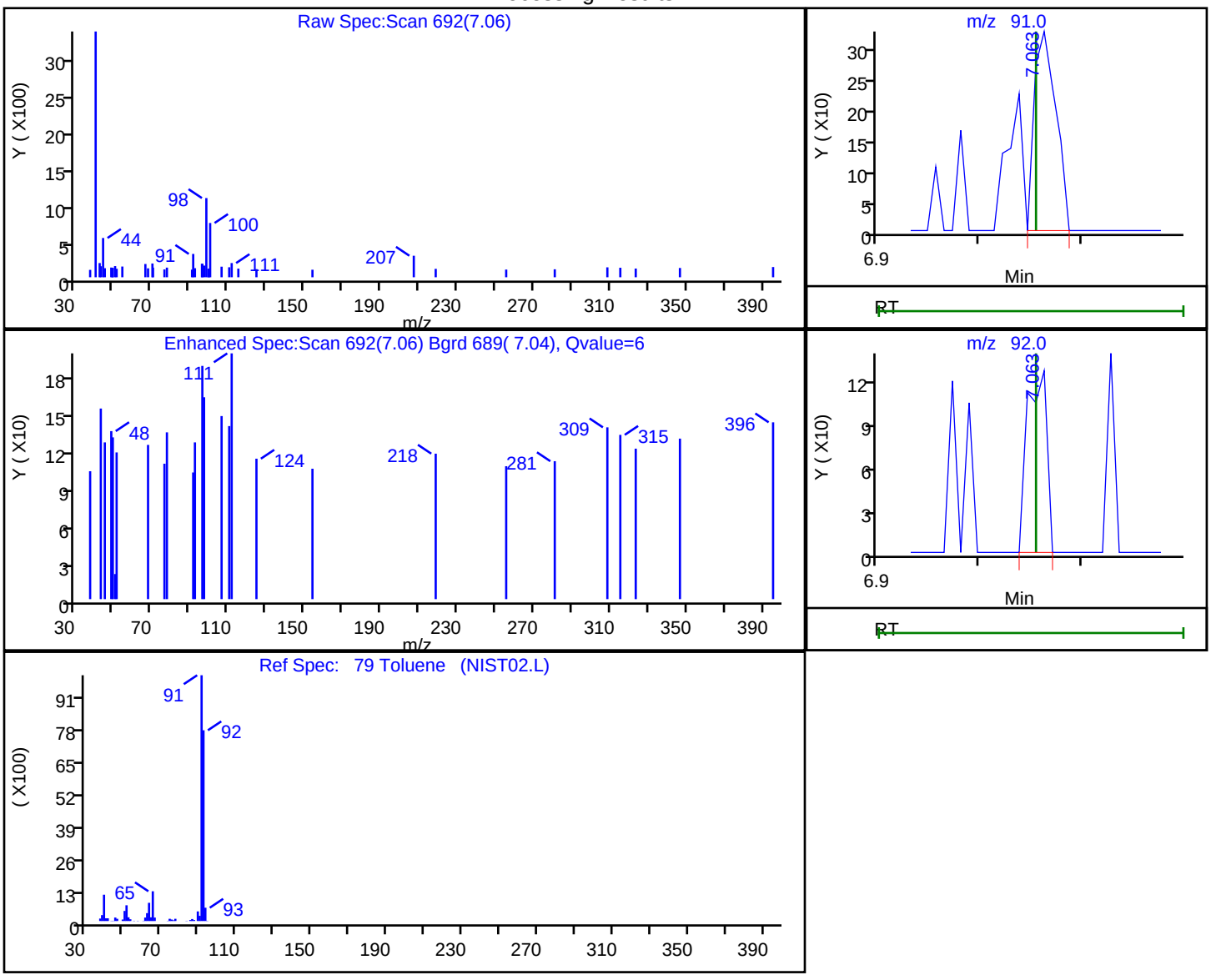
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
7.06	91.00	477	0.030064
7.06	92.00	167	

Reviewer: delpolitov, 08-Jul-2018 17:41:58

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

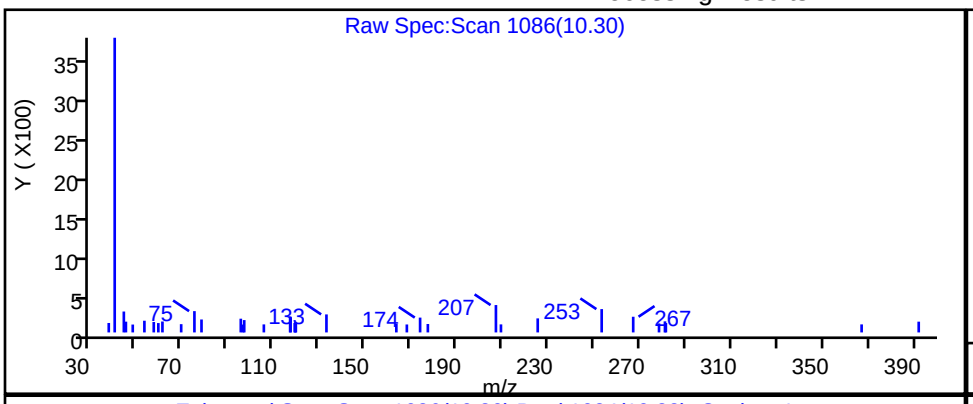
User Disabled Compound Report

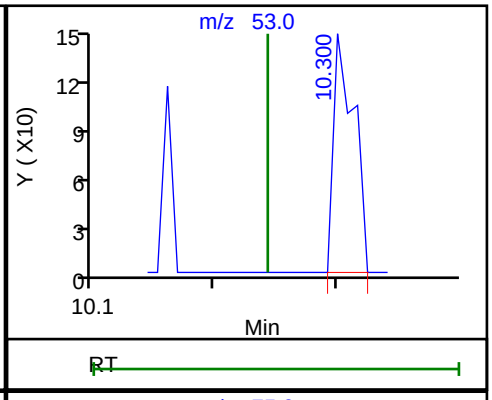
TestAmerica Edison

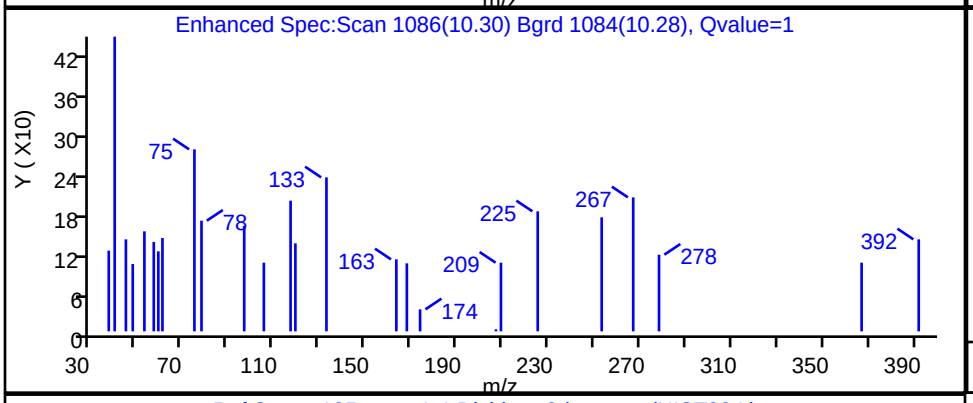
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

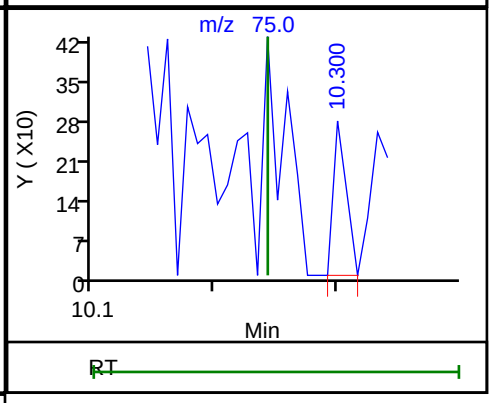
105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

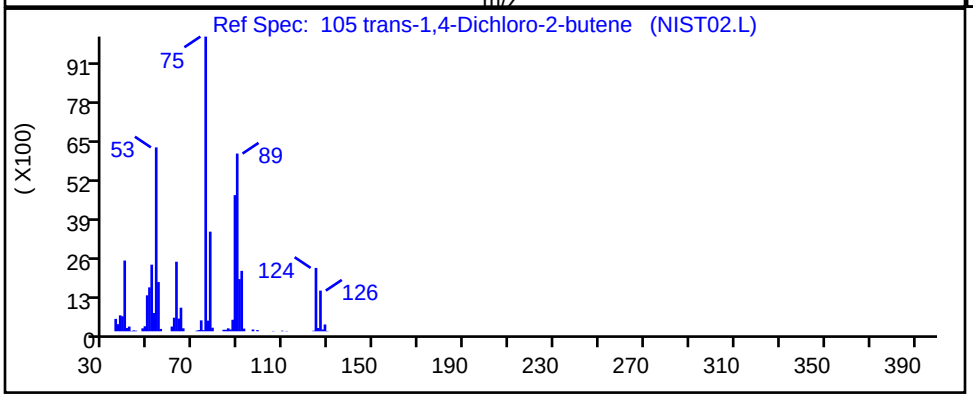
Processing Results











RT	Mass	Response	Amount
10.30	53.00	175	0.205958
10.30	75.00	202	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

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

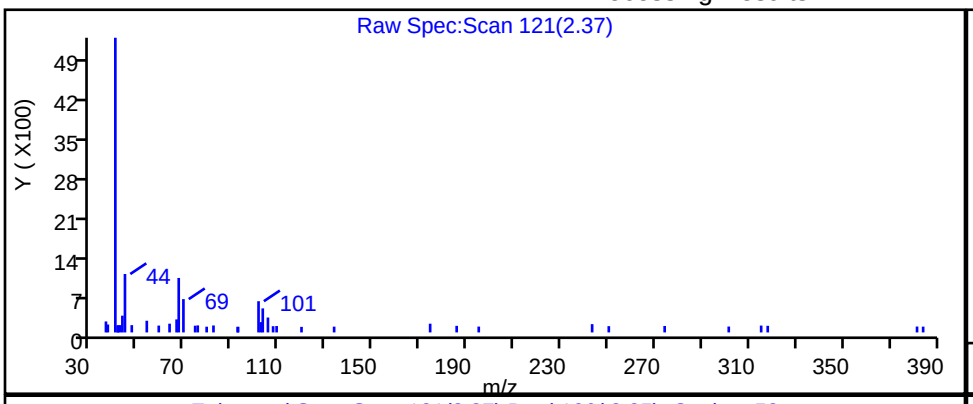
User Disabled Compound Report

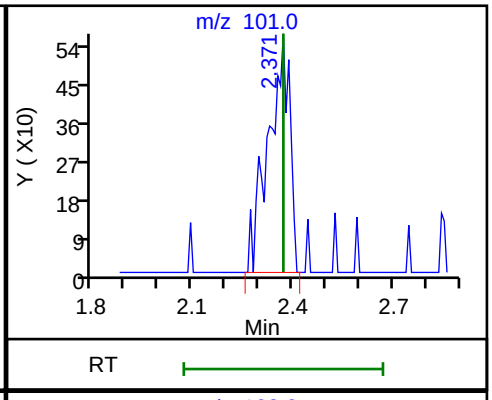
TestAmerica Edison

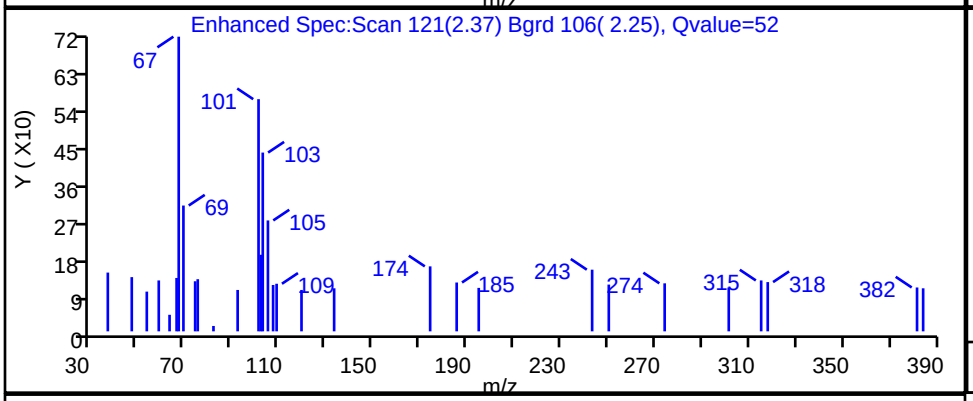
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

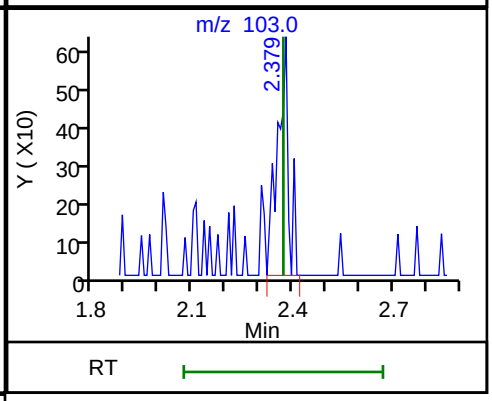
9 Trichlorofluoromethane, CAS: 75-69-4

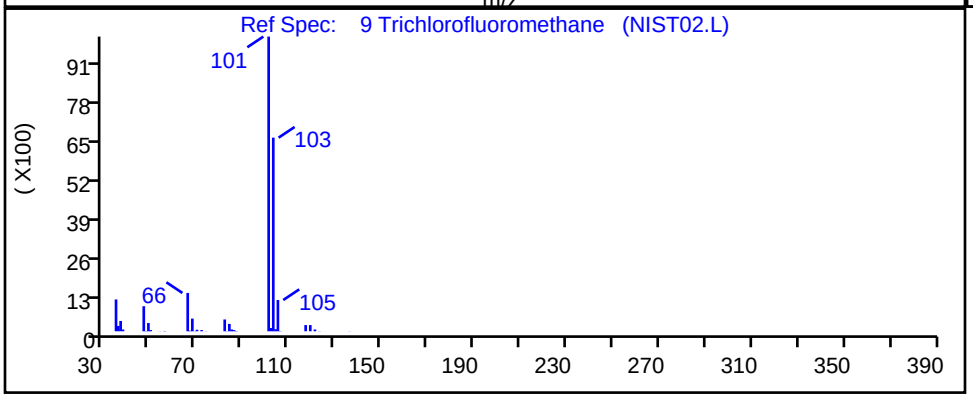
Processing Results











RT	Mass	Response	Amount
2.37	101.00	2498	0.351113
2.38	103.00	1436	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

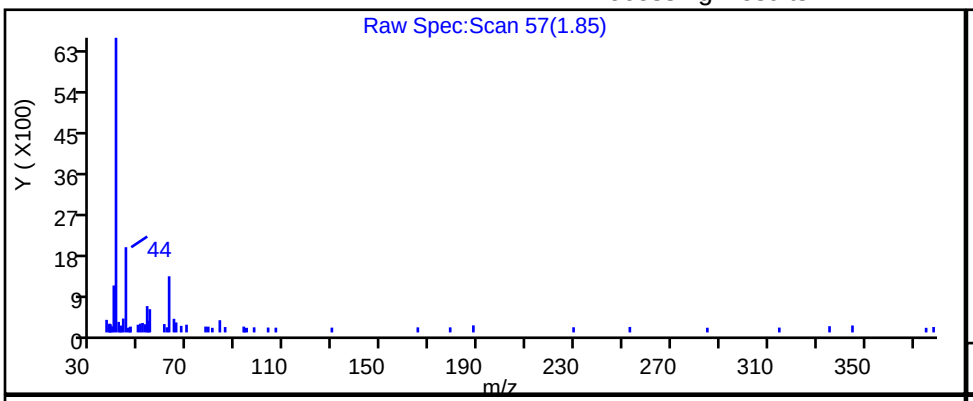
User Disabled Compound Report

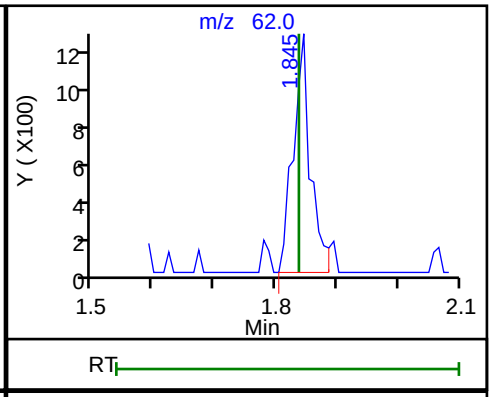
TestAmerica Edison

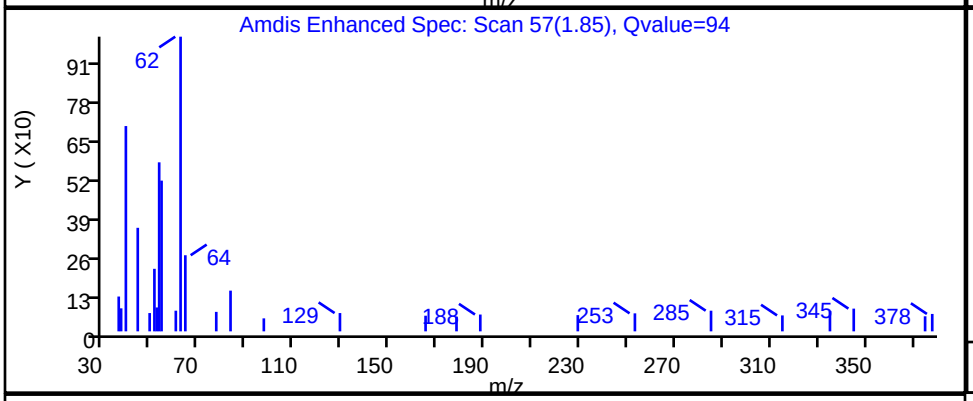
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

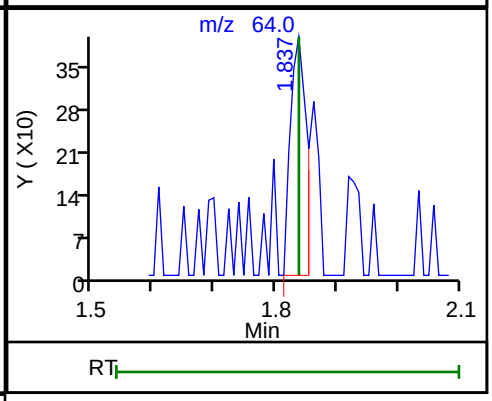
4 Vinyl chloride, CAS: 75-01-4

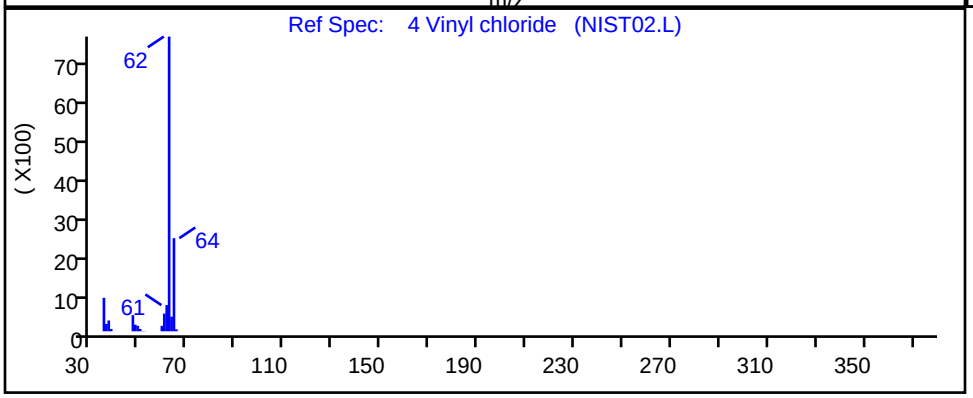
Processing Results











RT	Mass	Response	Amount
1.85	62.00	2428	0.322542
1.84	64.00	714	

Reviewer: delpolitov, 08-Jul-2018 17:28:01

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

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Jul-2018 08:37:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0075068-004
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:34 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:16:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	45	2101	1.00	0.7611	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	66	6206	1.00	0.9311	
3 Chloromethane	50	1.746	1.747	-0.001	98	9180	1.00	1.13	
5 Butadiene	54	1.837	1.837	0.000	90	7159	1.00	0.9680	
4 Vinyl chloride	62	1.837	1.837	0.000	95	8381	1.00	1.03	
6 Bromomethane	94	2.116	2.116	0.000	95	6934	1.00	1.23	
7 Chloroethane	64	2.174	2.182	-0.008	95	5599	1.00	1.16	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	96	10001	1.00	0.9747	
10 Pentane	72	2.355	2.363	-0.008	96	1110	2.00	1.51	
9 Trichlorofluoromethane	101	2.363	2.371	-0.008	67	7738	1.00	1.03	
11 Ethanol	46	2.593	2.544	0.049	21	457	40.0	49.5	M
12 Ethyl ether	59	2.552	2.552	0.000	73	3428	1.00	1.02	
13 2-Methyl-1,3-butadiene	53	2.576	2.568	0.008	91	4319	1.00	1.10	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	72	4331	1.00	1.08	a
15 Acrolein	56	2.733	2.724	0.009	29	661	4.00	2.93	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	67	4820	1.00	1.03	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	95	4731	1.00	1.09	
18 Acetone	43	2.864	2.848	0.016	60	3274	5.00	4.20	M
19 Iodomethane	142	2.913	2.913	0.000	96	8478	1.00	1.08	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	25	1489	10.0	11.0	a
21 Carbon disulfide	76	2.946	2.955	-0.009	100	20504	1.00	1.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	95	8819	1.00	1.06	
24 Methyl acetate	43	3.078	3.078	0.000	52	4522	2.00	1.80	a
23 Cyclopentene	67	3.086	3.086	0.000	84	10911	1.00	0.99	
25 Acetonitrile	41	3.209	3.144	0.065	20	3213	10.0	8.03	M
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	116109	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	42	5762	1.00	1.08	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	11	2288	10.0	9.37	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	93	13690	1.00	1.07	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	92	5085	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.456	3.448	0.008	97	11424	10.0	7.98	
32 Hexane	43	3.521	3.522	-0.001	89	4326	1.00	1.11	
33 Isopropyl ether	45	3.727	3.727	0.000	96	14507	1.00	0.9884	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	97	8738	1.00	1.03	
35 Vinyl acetate	86	3.793	3.776	0.016	98	1360	2.00	1.65	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	77	4717	1.00	1.12	
37 Tert-butyl ethyl ether	59	4.023	4.039	-0.016	95	13740	1.00	1.00	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	136598	250.0	250.0	
39 2,2-Dichloropropane	97	4.277	4.269	0.008	50	2112	1.00	1.18	a
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	93	5362	1.00	0.99	
42 Ethyl acetate	70	4.310	4.286	0.024	47	900	2.00	2.49	
41 2-Butanone (MEK)	72	4.310	4.286	0.024	81	1917	5.00	5.30	
43 Methyl acrylate	55	4.351	4.351	0.000	47	2625	1.00	0.9661	Ma
44 Propionitrile	54	4.458	4.425	0.033	52	3081	10.0	7.13	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	2454	1.00	0.9868	
46 Tetrahydrofuran	72	4.516	4.508	0.008	40	1292	2.00	2.01	M
47 Methacrylonitrile	67	4.532	4.524	0.008	88	14869	10.0	9.55	
48 Chloroform	83	4.548	4.549	-0.001	73	7472	1.00	0.9718	
49 Cyclohexane	84	4.672	4.688	-0.016	59	6752	1.00	0.9411	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	36	8085	1.00	1.18	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	95672	50.0	51.2	
52 Carbon tetrachloride	117	4.820	4.812	0.008	93	5667	1.00	1.02	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	93	6011	1.00	0.99	
54 Isobutyl alcohol	43	5.000	4.992	0.008	34	4342	25.0	22.1	
55 Benzene	78	5.033	5.033	0.000	64	18589	1.00	1.05	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	100077	50.0	50.2	
57 Isopropyl acetate	43	5.099	5.083	0.016	84	10563	1.00	0.9620	
58 Tert-amyl methyl ether	73	5.083	5.091	-0.008	83	13557	1.00	0.9269	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	97	6967	1.00	1.26	
60 n-Heptane	57	5.181	5.181	0.000	91	3068	1.00	0.9133	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	374608	50.0	50.0	
62 n-Butanol	56	5.641	5.650	-0.009	4	109	25.0	1.87	Ma
63 Trichloroethene	95	5.674	5.674	0.000	95	5186	1.00	1.12	
65 Ethyl acrylate	55	5.797	5.789	0.008	77	7287	1.00	0.7269	
64 Methylcyclohexane	83	5.797	5.798	-0.001	95	7208	1.00	0.8856	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	90	4632	1.00	0.9684	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	9663	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	86	1058	2.00	2.04	
69 1,4-Dioxane	88	6.093	6.085	0.008	44	953	50.0	51.7	M
70 n-Propyl acetate	43	6.143	6.085	0.058	59	4168	1.00	0.9386	Ma
71 Dibromomethane	93	6.093	6.093	0.000	88	3175	1.00	1.17	
72 Dichlorobromomethane	83	6.241	6.241	0.000	97	6161	1.00	1.06	
73 2-Nitropropane	41	6.578	6.570	0.008	75	2118	2.00	2.55	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	48	1645	1.00	0.7869	
75 Epichlorohydrin	57	6.693	6.685	0.008	93	5069	20.0	18.5	a
76 cis-1,3-Dichloropropene	75	6.742	6.734	0.008	92	6269	1.00	0.9782	
77 4-Methyl-2-pentanone (MIBK	43	6.907	6.899	0.008	94	11173	5.00	4.00	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	347975	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	94	18562	1.00	1.04	
80 trans-1,3-Dichloropropene	75	7.424	7.408	0.016	81	5482	1.00	1.03	
81 Ethyl methacrylate	69	7.449	7.433	0.016	50	3203	1.00	0.7320	
82 1,1,2-Trichloroethane	83	7.613	7.622	-0.009	88	2798	1.00	0.9417	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	94	4612	1.00	1.06	
84 1,3-Dichloropropane	76	7.835	7.827	0.008	91	5362	1.00	0.9539	
85 2-Hexanone	43	7.917	7.893	0.024	72	3093	5.00	5.06	
86 n-Butyl acetate	43	8.032	8.008	0.024	34	1864	1.00	0.99	M
87 Chlorodibromomethane	129	8.065	8.065	0.000	96	4025	1.00	1.05	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	96	2979	1.00	0.9192	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	252919	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	97	11664	1.00	1.04	
91 Ethylbenzene	106	8.895	8.895	0.000	97	6771	1.00	1.04	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	91	4385	1.00	1.03	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	7136	1.00	0.9232	
94 n-Butyl acrylate	73	9.536	9.487	0.049	31	1421	1.00	1.02	
95 o-Xylene	106	9.503	9.503	0.000	91	7504	1.00	0.9387	
96 Styrene	104	9.544	9.536	0.008	97	11669	1.00	0.9393	M
97 Amyl acetate (mixed isomer	43	9.750	9.717	0.033	45	2413	1.00	1.03	Ma
98 Bromoform	173	9.750	9.742	0.008	95	2543	1.00	1.03	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	18025	1.00	0.9383	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	105689	50.0	51.8	
101 Bromobenzene	156	10.152	10.144	0.008	96	5396	1.00	1.09	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	94	4570	1.00	0.9765	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	23444	1.00	1.03	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	88	1662	1.00	1.26	
105 trans-1,4-Dichloro-2-buten	53	10.259	10.243	0.016	1	432	1.00	1.01	
106 2-Chlorotoluene	91	10.300	10.292	0.008	97	16430	1.00	1.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	82	17032	1.00	0.9075	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	16210	1.00	0.9800	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	14193	1.00	1.00	
110 Butyl Methacrylate	87	10.440	10.432	0.008	57	3544	1.00	1.03	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	12385	1.00	0.9282	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	15797	1.00	0.9387	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	20280	1.00	0.9869	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	97	16216	1.00	0.9341	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	9487	1.00	0.9744	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	94	143687	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	89	9982	1.00	0.99	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	18062	1.00	1.01	
118 Benzyl chloride	91	11.032	11.024	0.008	96	7060	1.00	0.7901	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	92	18019	1.00	1.00	
120 p-Diethylbenzene	119	11.106	11.098	0.008	94	9865	1.00	0.9230	
121 n-Butylbenzene	92	11.122	11.114	0.008	96	9483	1.00	0.9578	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	93	9954	1.00	1.02	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	97	16200	1.00	0.9712	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.656	0.008	40	909	1.00	1.05	
125 1,3,5-Trichlorobenzene	180	11.746	11.738	0.008	95	7826	1.00	1.03	
126 1,2,4-Trichlorobenzene	180	12.149	12.141	0.008	93	6018	1.00	0.8903	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	90	3628	1.00	1.13	
128 Naphthalene	128	12.322	12.314	0.008	97	11939	1.00	0.8346	
129 1,2,3-Trichlorobenzene	180	12.486	12.478	0.008	94	7132	1.00	1.10	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.06	
S 131 Xylenes, Total	100				0		2.00	1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
14DIOXINTER_00086	Amount Added:	30.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:00:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D

Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6 Operator ID:

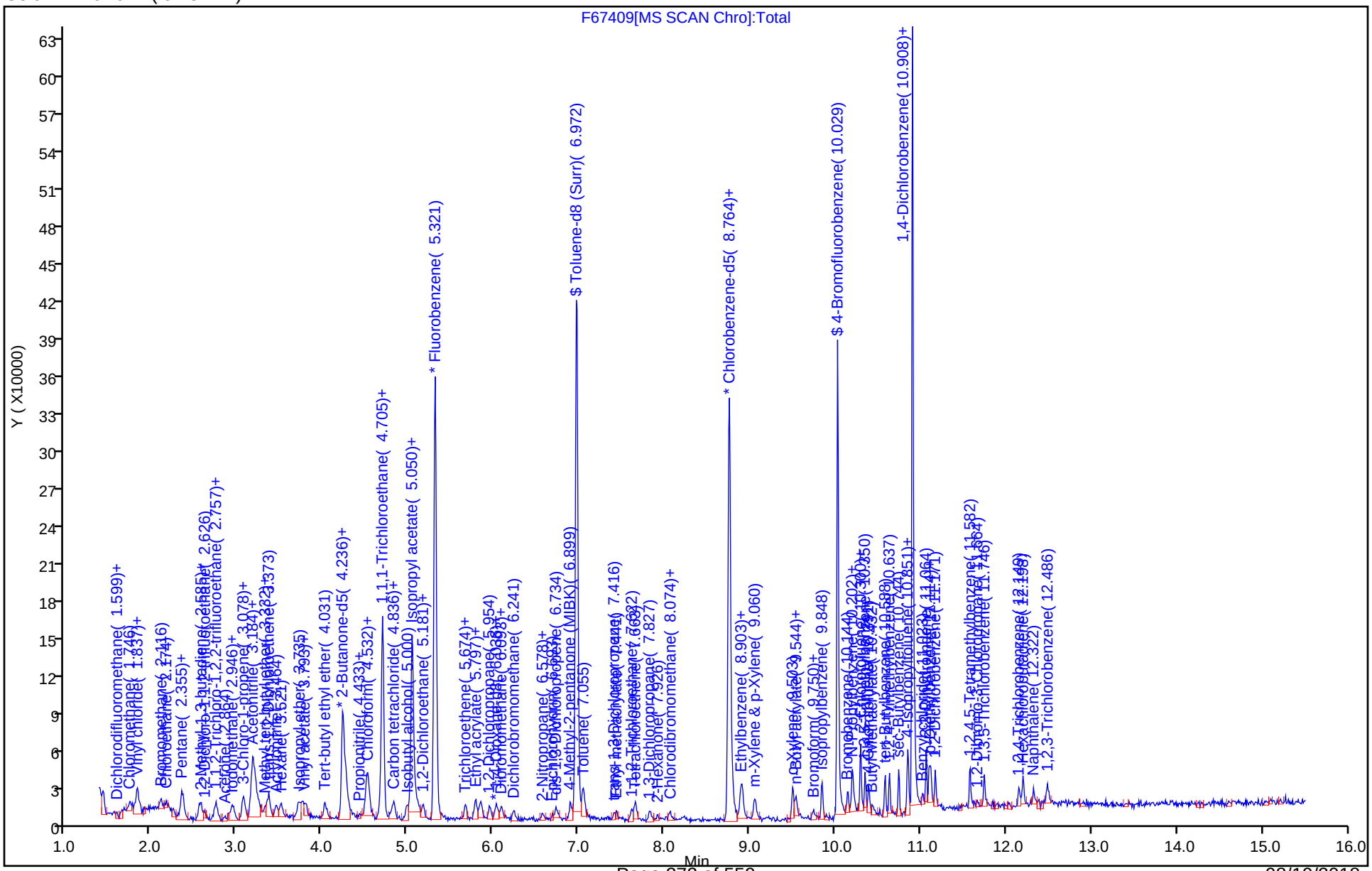
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

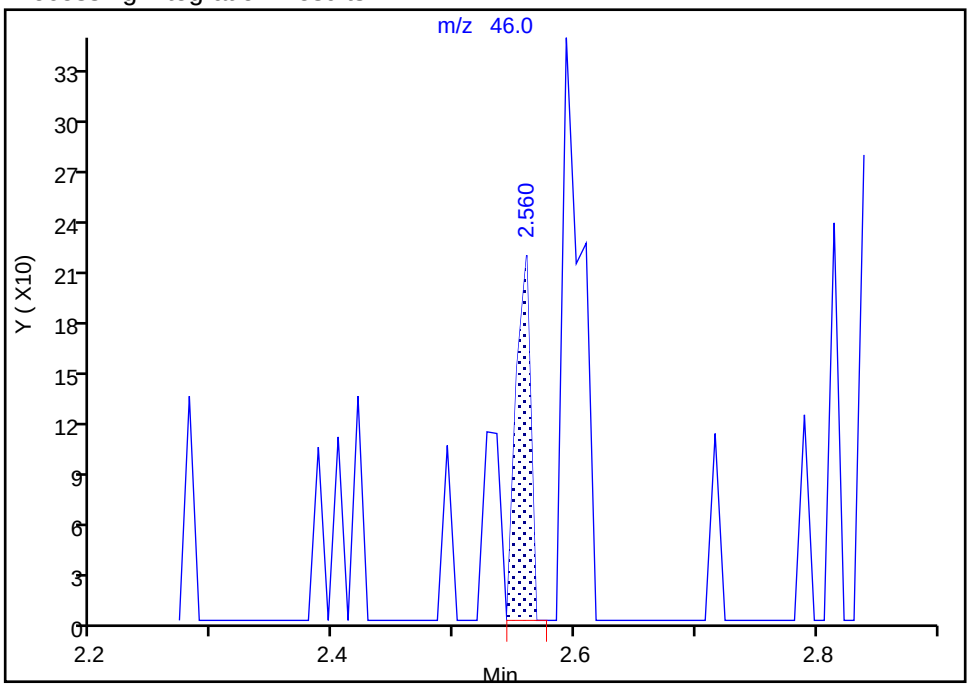
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

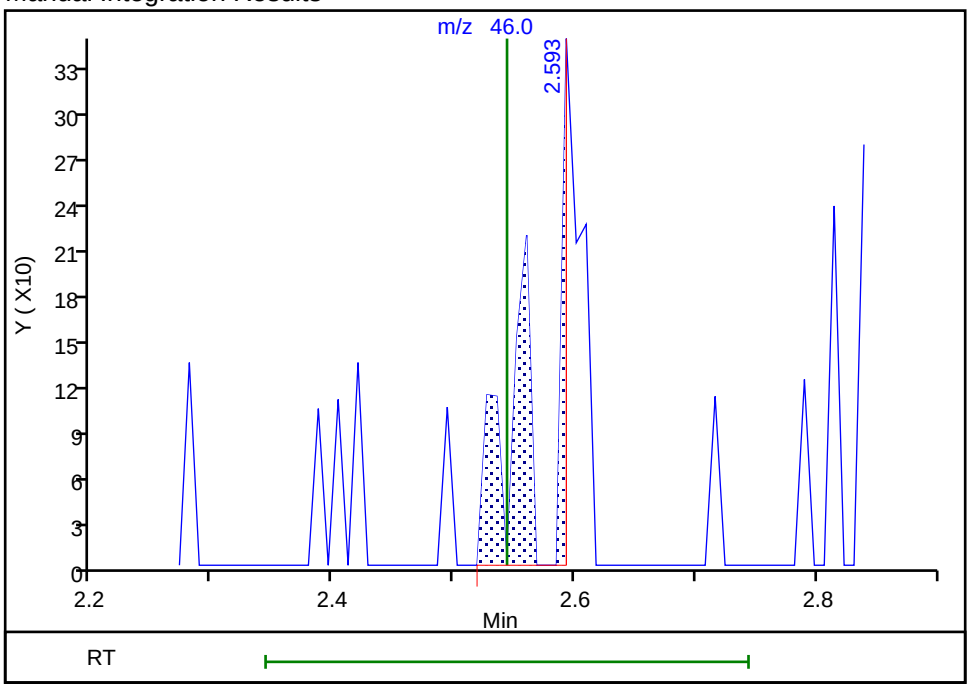
Processing Integration Results

RT: 2.56
Area: 179
Amount: 27.301764
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 457
Amount: 49.495510
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:50:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

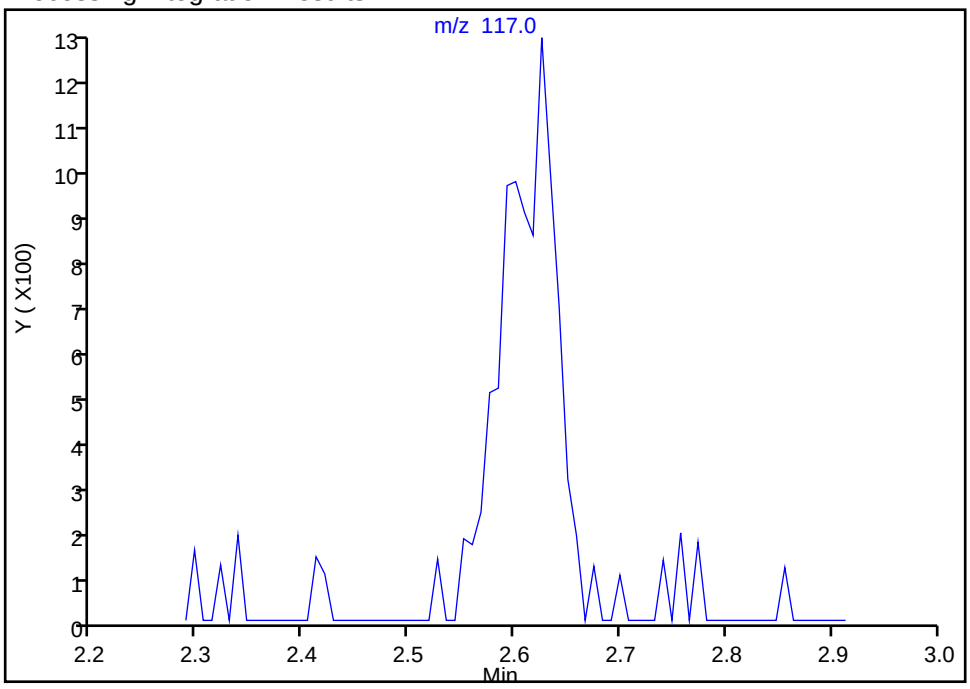
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Signal: 1

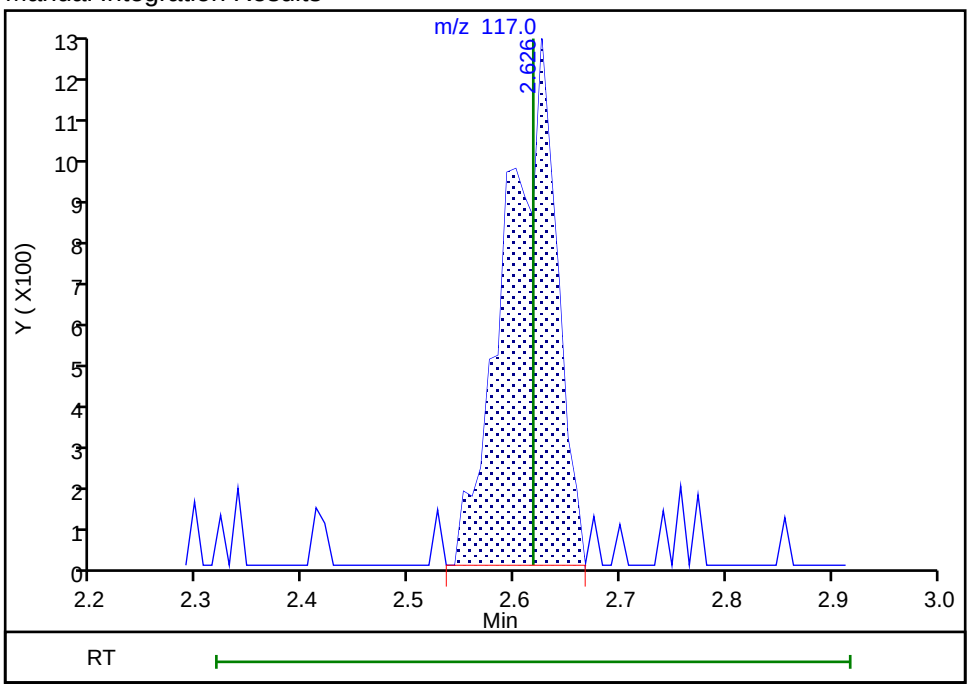
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.63
Area: 4331
Amount: 1.083085
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

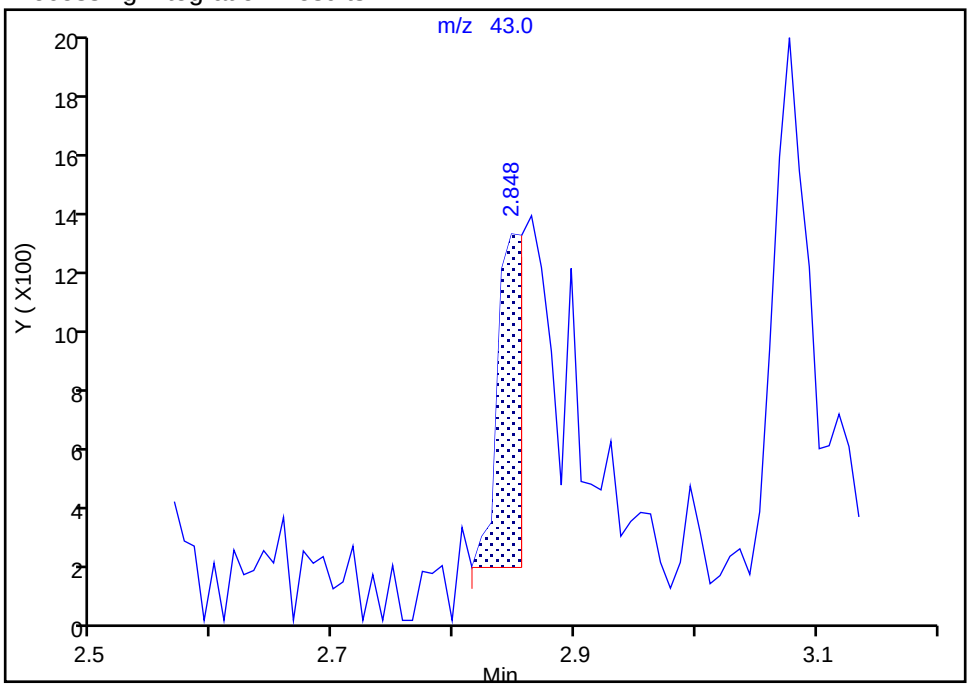
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

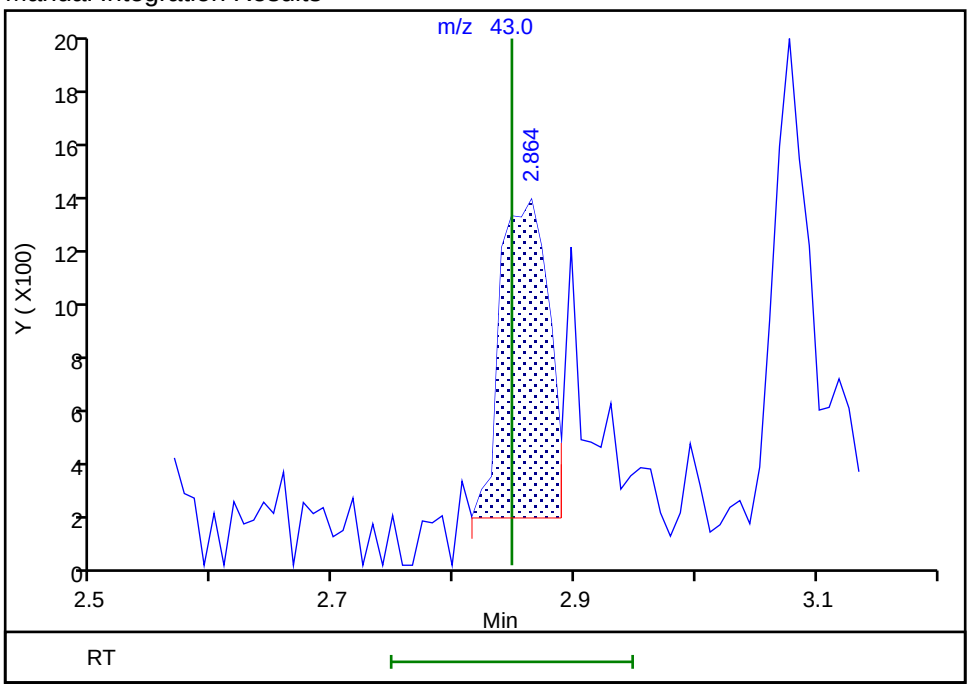
Processing Integration Results

RT: 2.85
Area: 1705
Amount: 2.046142
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 3274
Amount: 4.204923
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

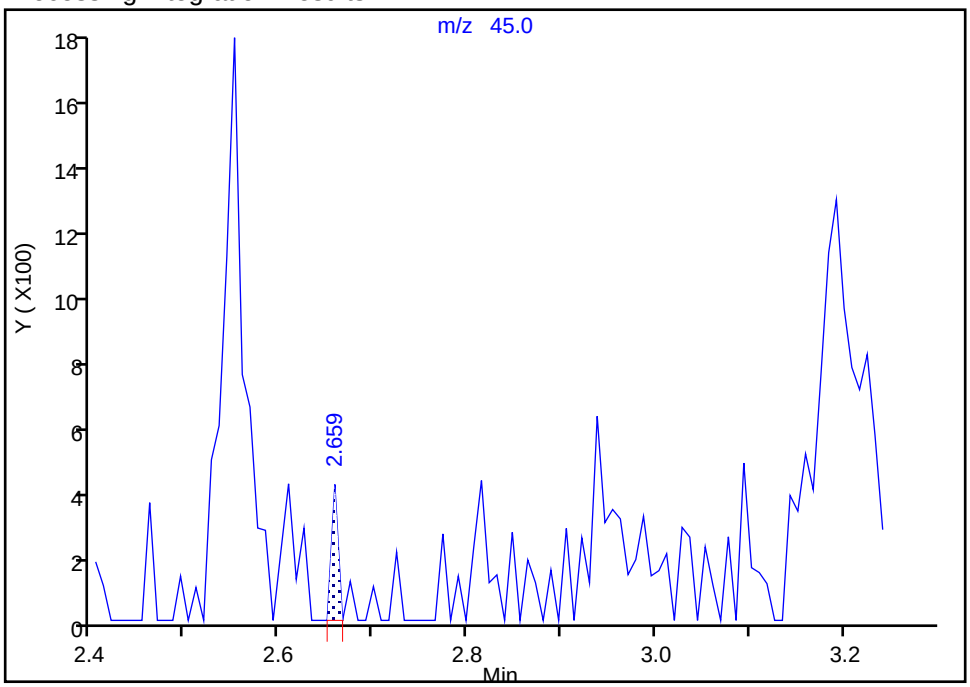
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

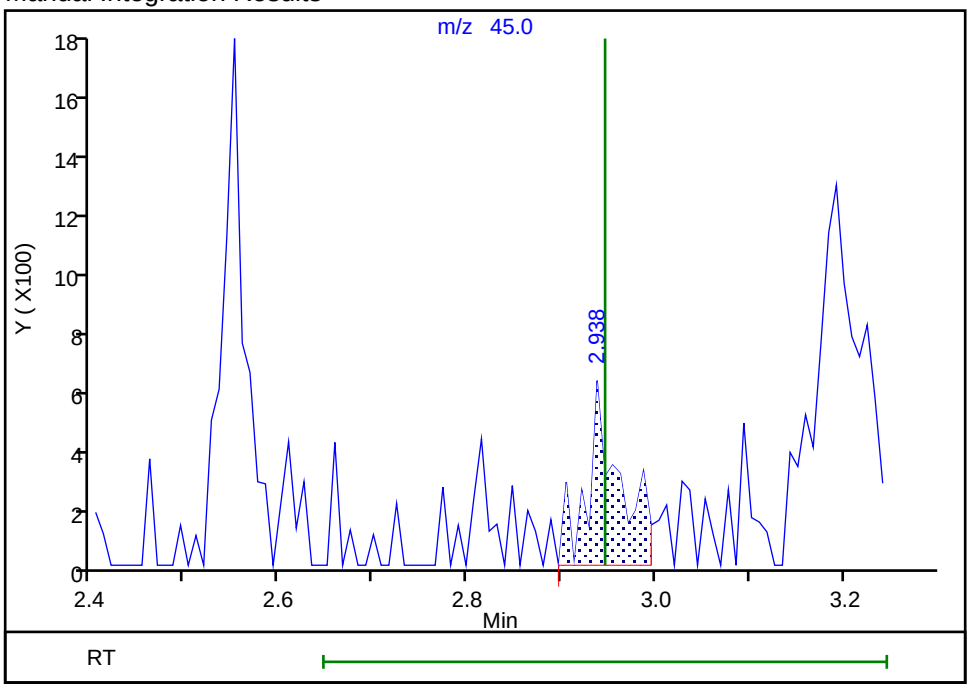
Processing Integration Results

RT: 2.66
Area: 206
Amount: 1.722006
Amount Units: ug/l



Manual Integration Results

RT: 2.94
Area: 1489
Amount: 10.963757
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

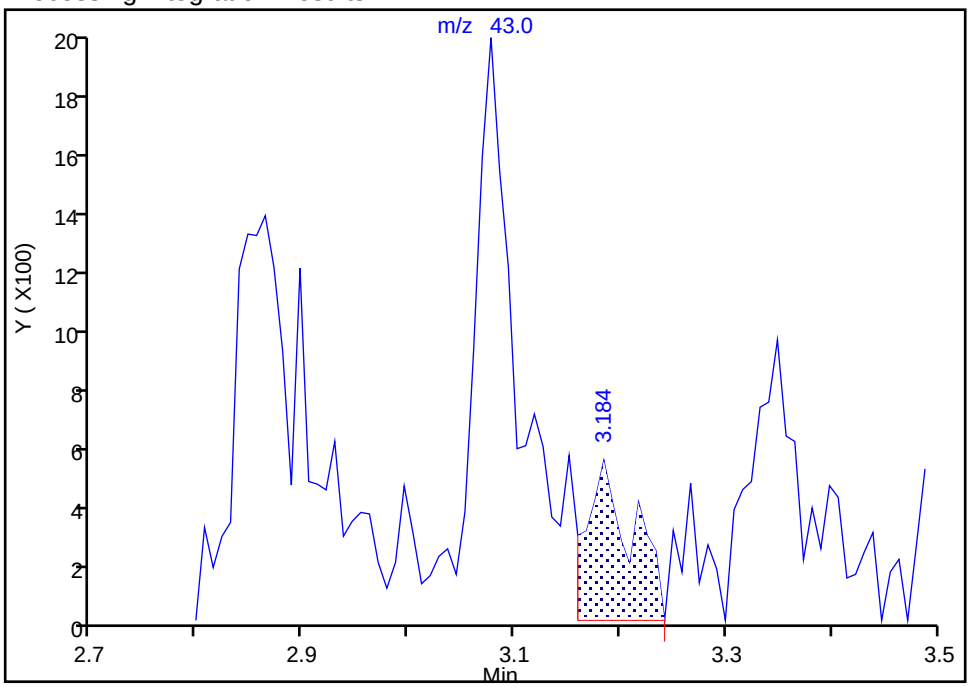
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

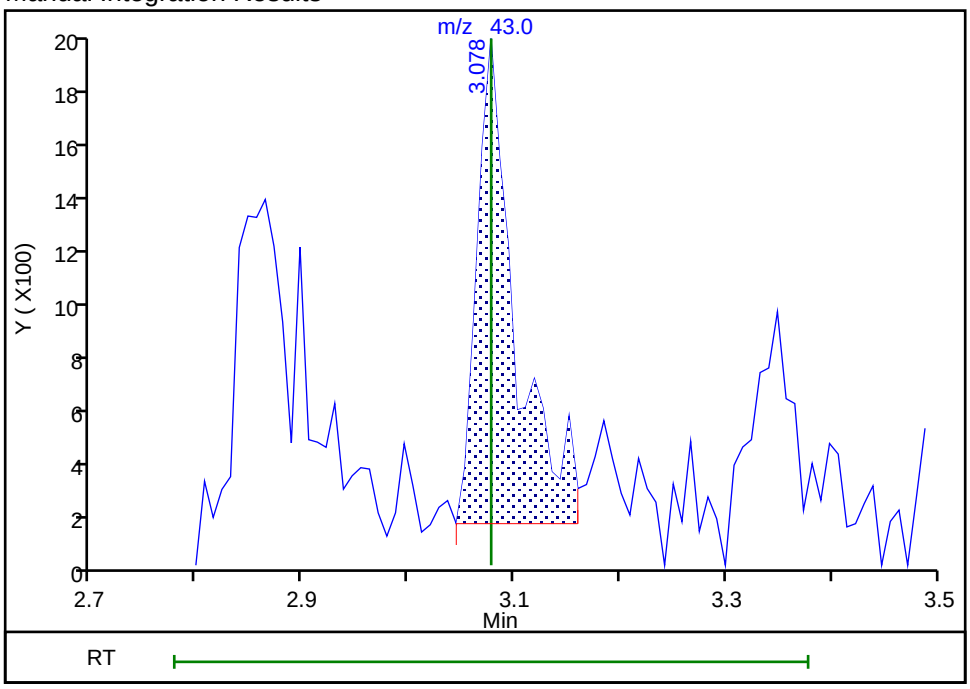
Processing Integration Results

RT: 3.18
Area: 1607
Amount: 0.648934
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 4522
Amount: 1.801377
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:34
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

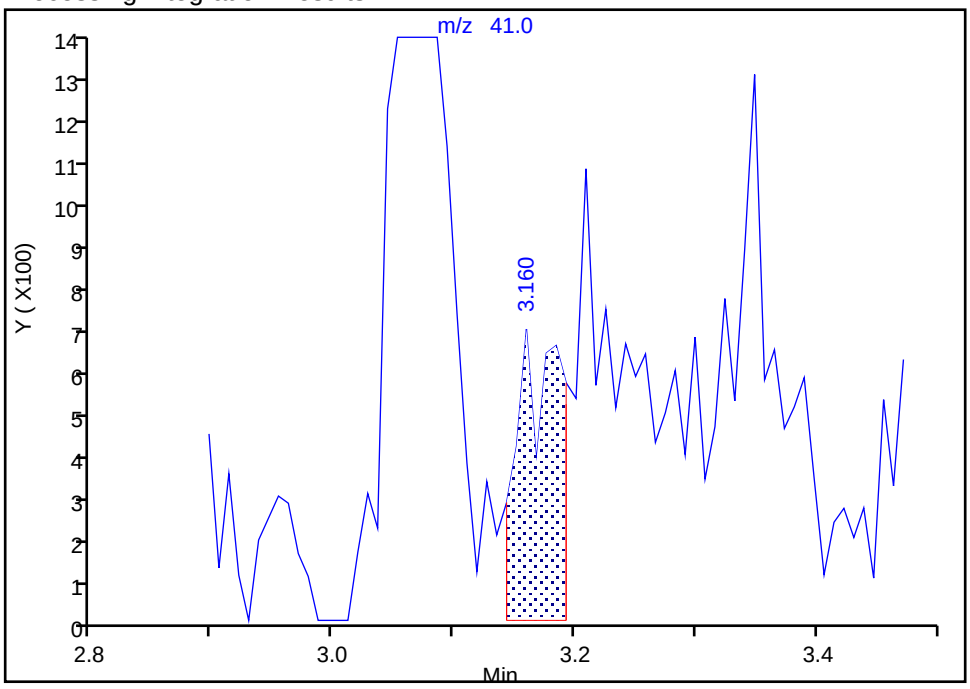
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

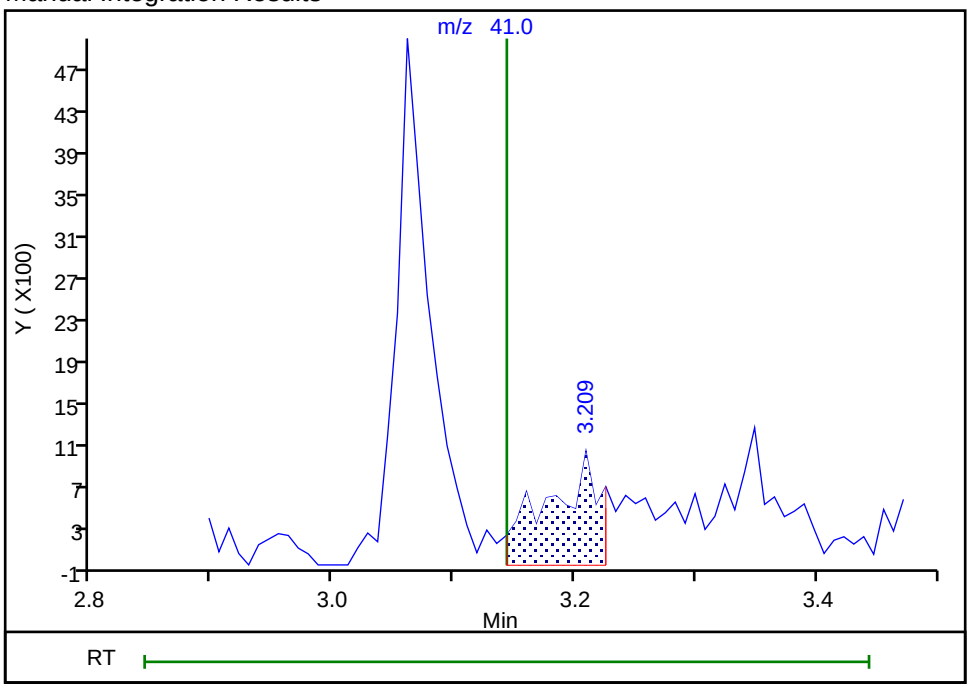
Processing Integration Results

RT: 3.16
Area: 1775
Amount: 2.376885
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 3213
Amount: 8.029178
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

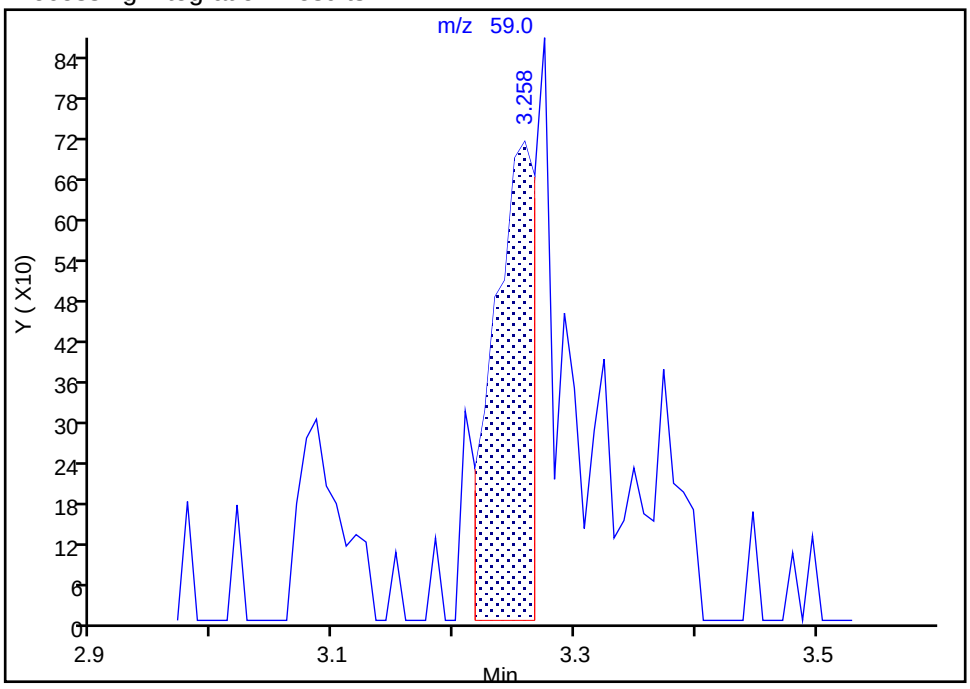
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

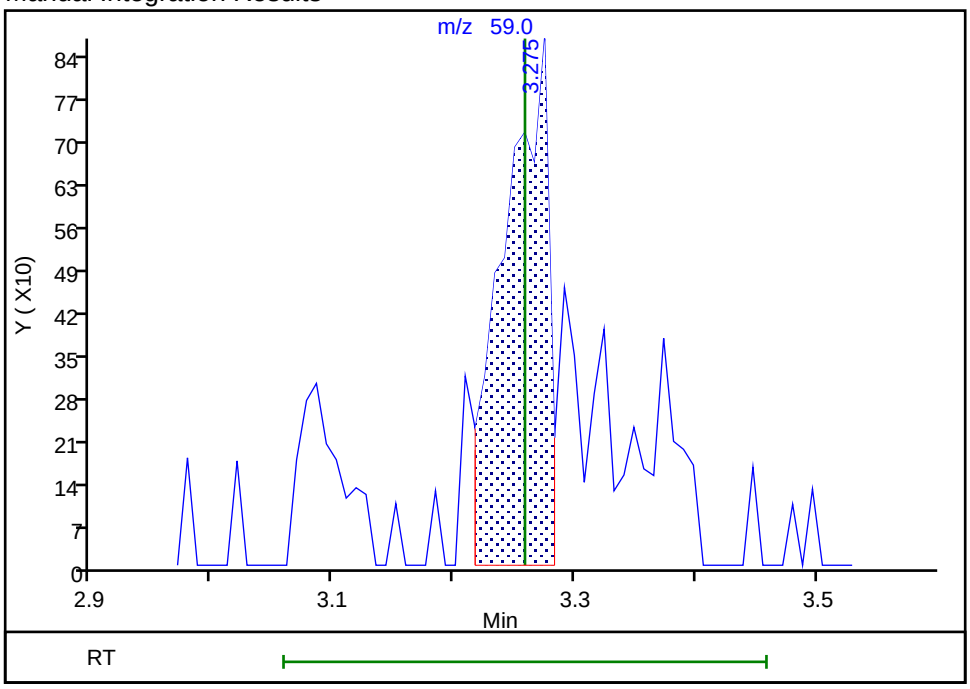
Processing Integration Results

RT: 3.26
Area: 1760
Amount: 7.577499
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 2288
Amount: 9.371030
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

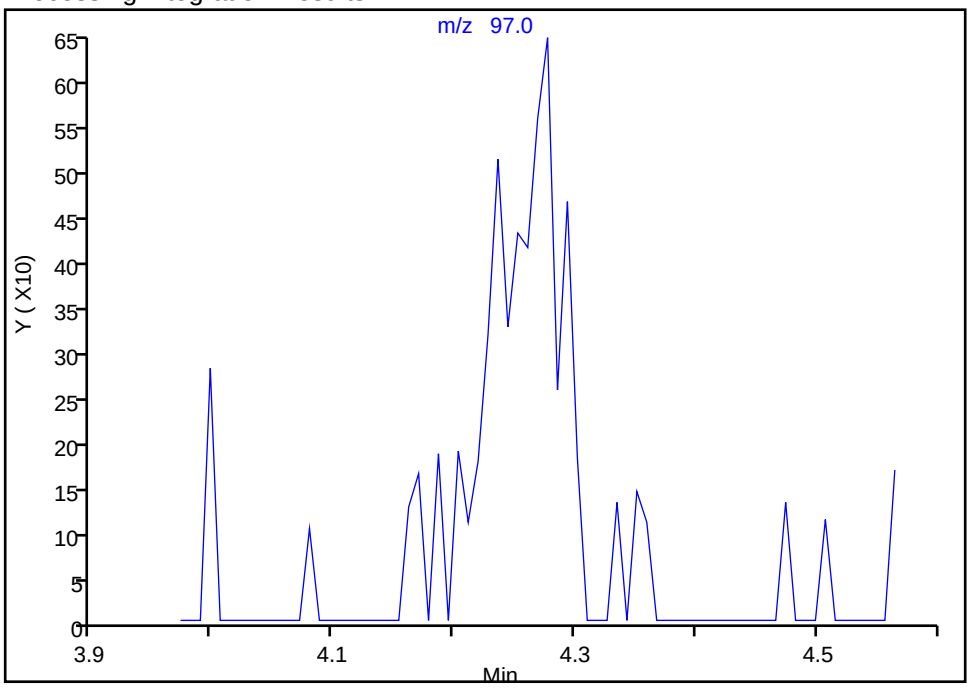
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

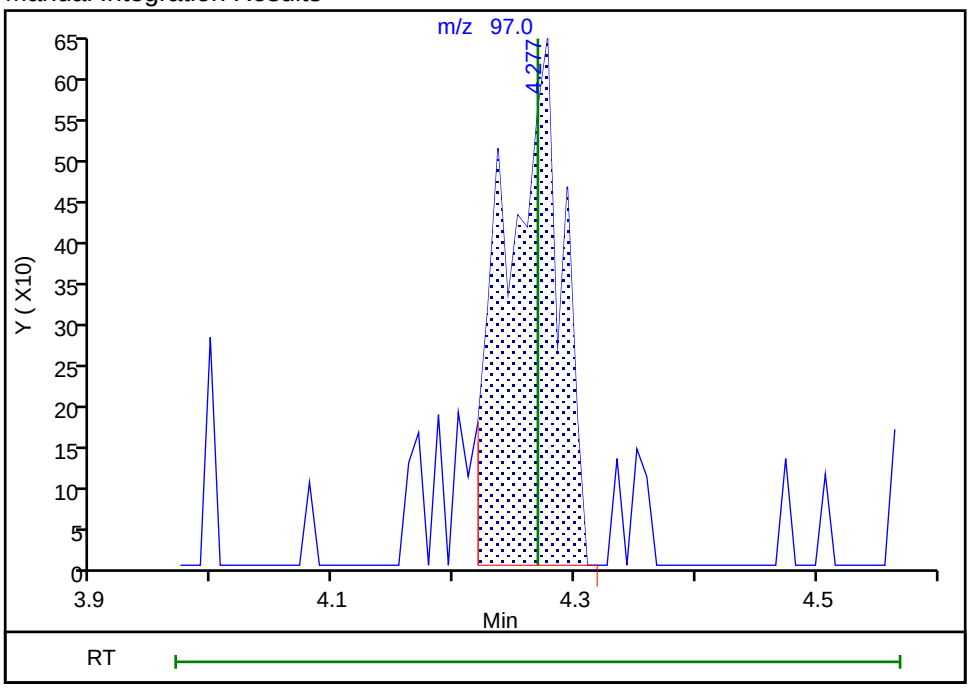
Not Detected
Expected RT: 4.27

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 2112
Amount: 1.176045
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

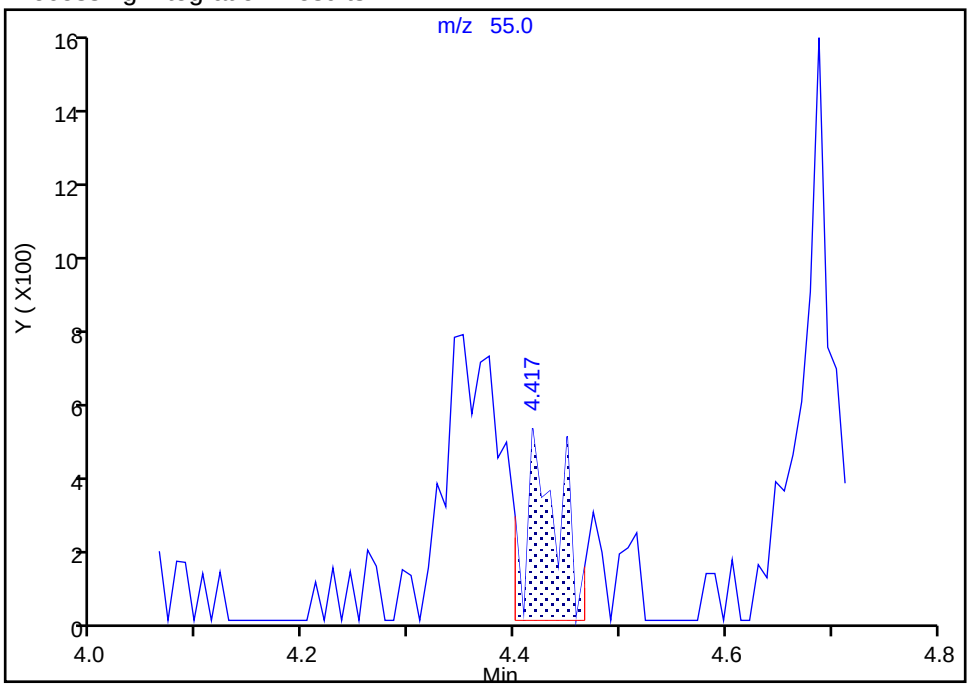
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

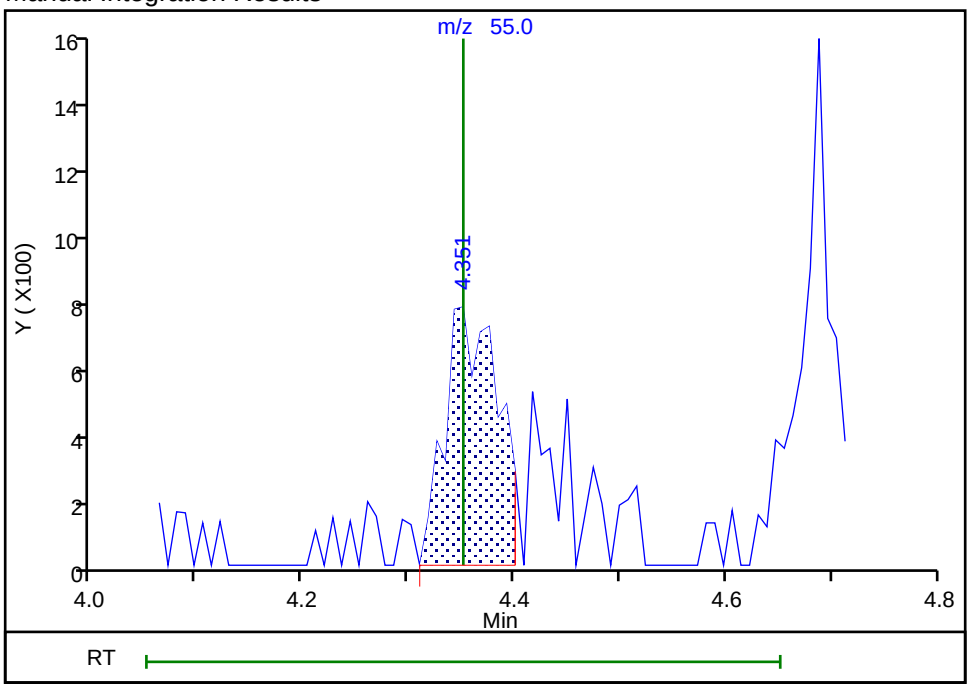
Processing Integration Results

RT: 4.42
Area: 1071
Amount: 0.391012
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 2625
Amount: 0.966114
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

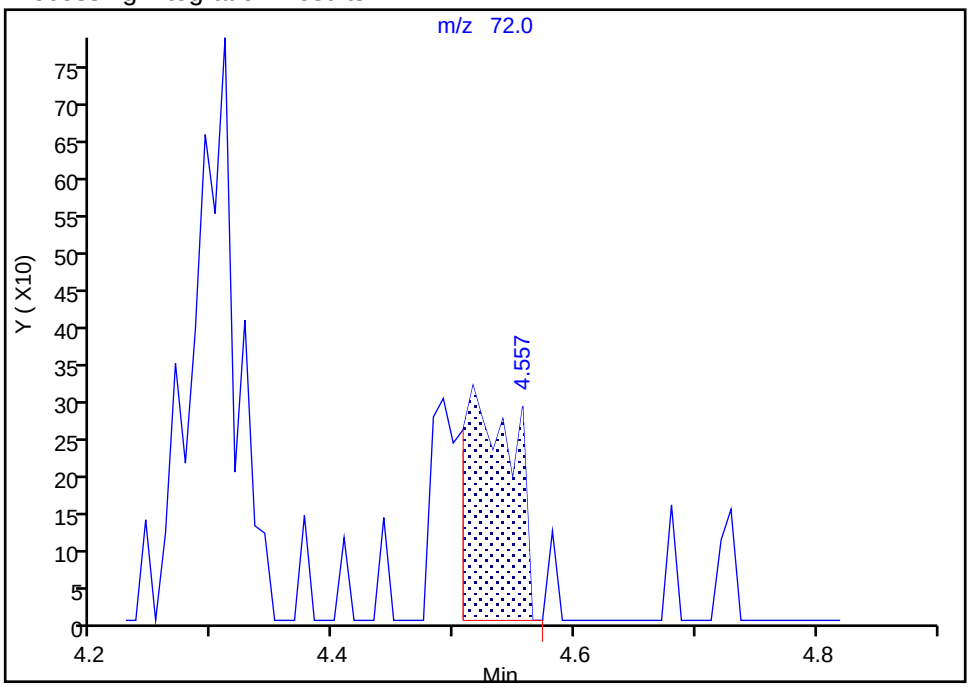
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

46 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

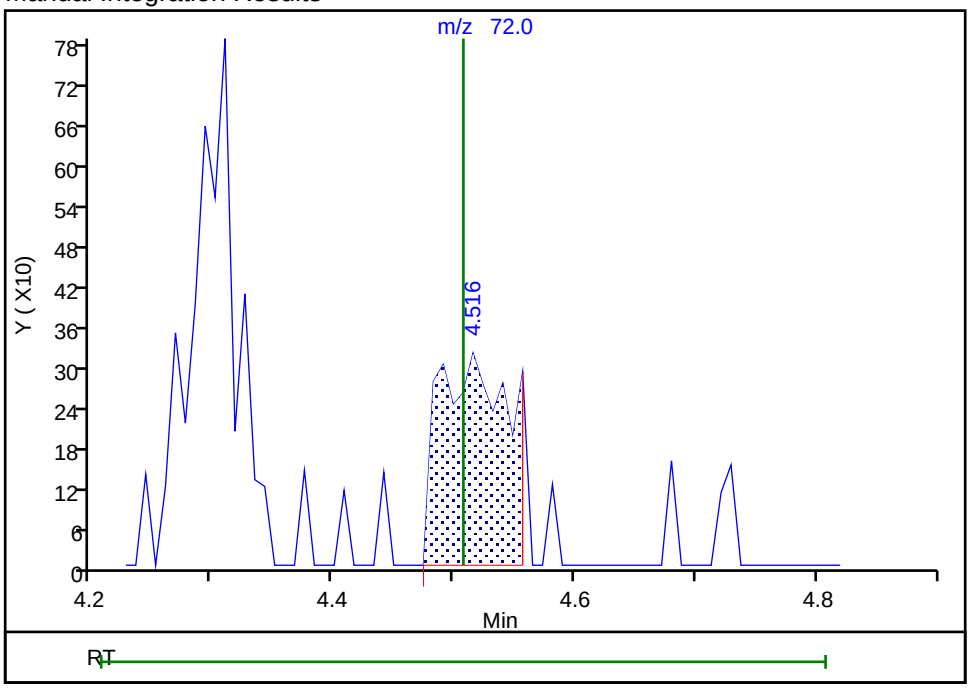
Processing Integration Results

RT: 4.56
Area: 894
Amount: 2.134241
Amount Units: ug/l



Manual Integration Results

RT: 4.52
Area: 1292
Amount: 2.011635
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

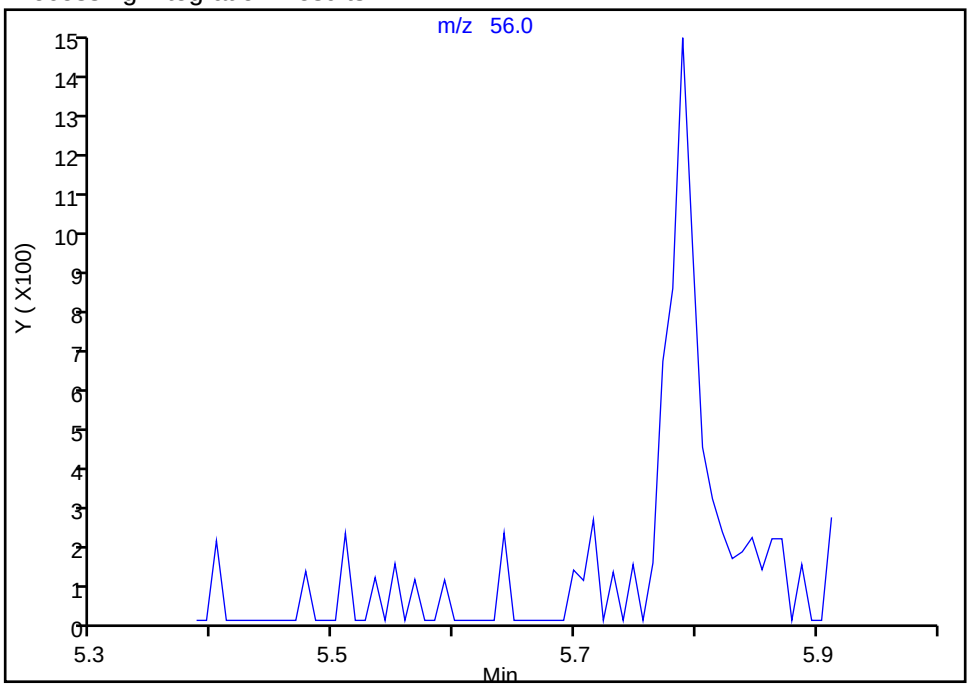
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

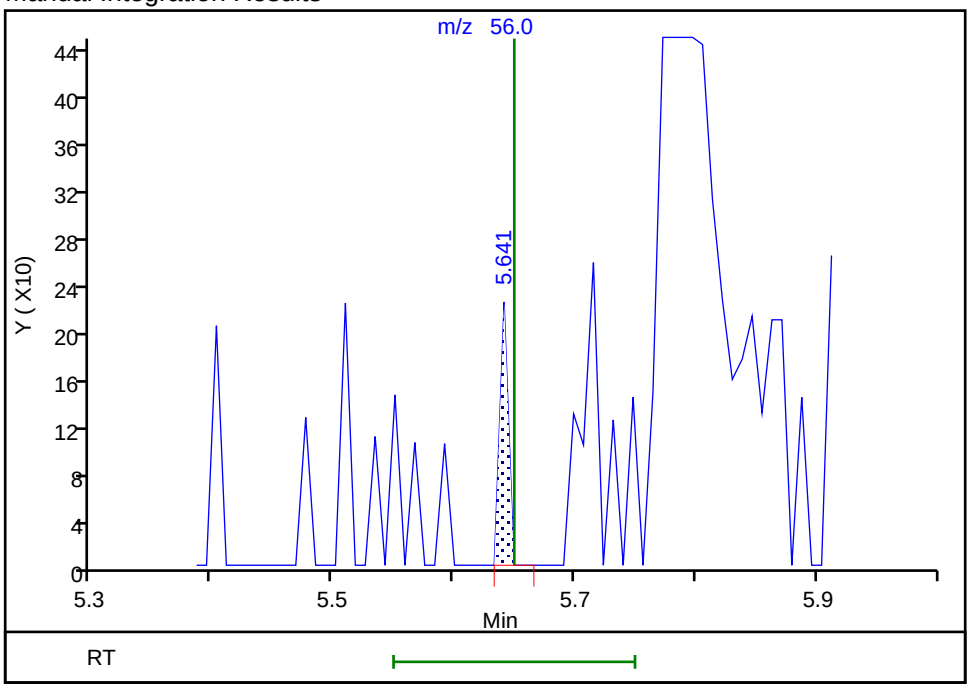
Not Detected
Expected RT: 5.65

Processing Integration Results



Manual Integration Results

RT: 5.64
Area: 109
Amount: 1.870900
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

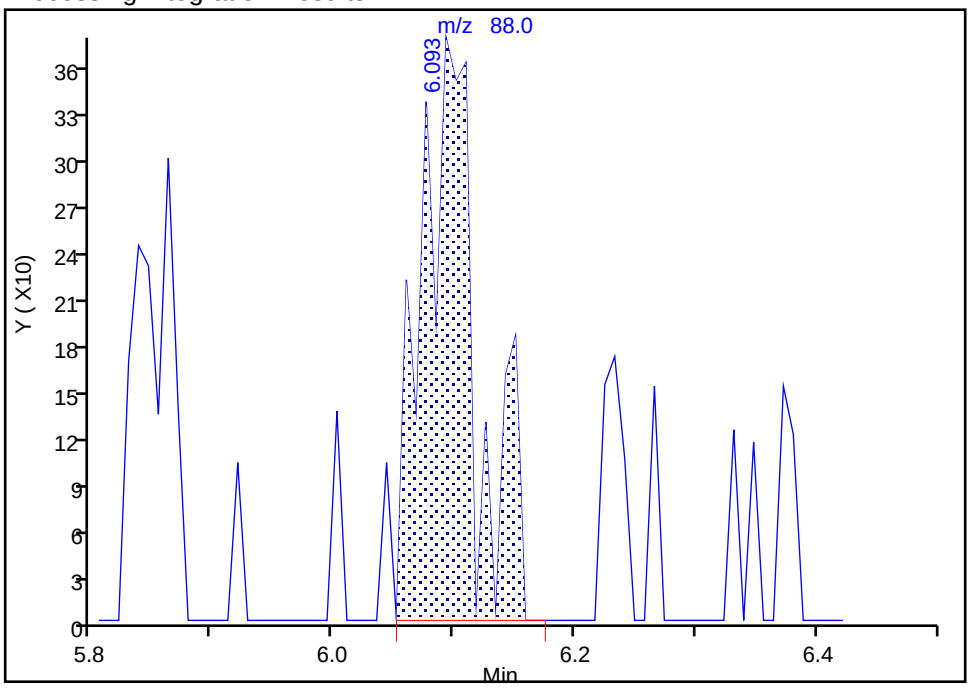
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

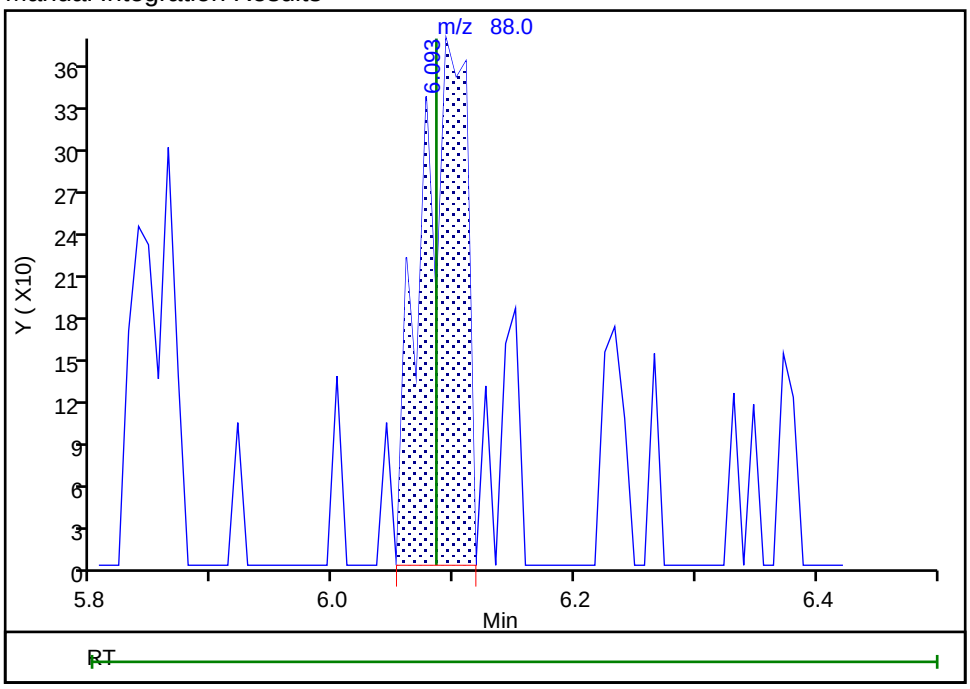
Processing Integration Results

RT: 6.09
Area: 1183
Amount: 67.510741
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 953
Amount: 51.669148
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:02:08
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

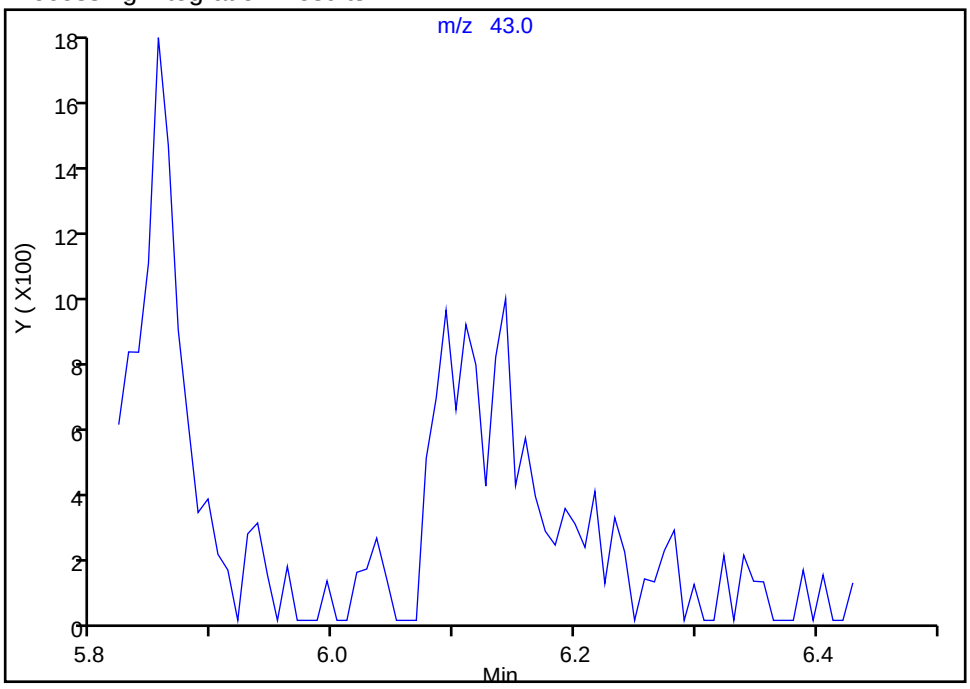
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 n-Propyl acetate, CAS: 109-60-4

Signal: 1

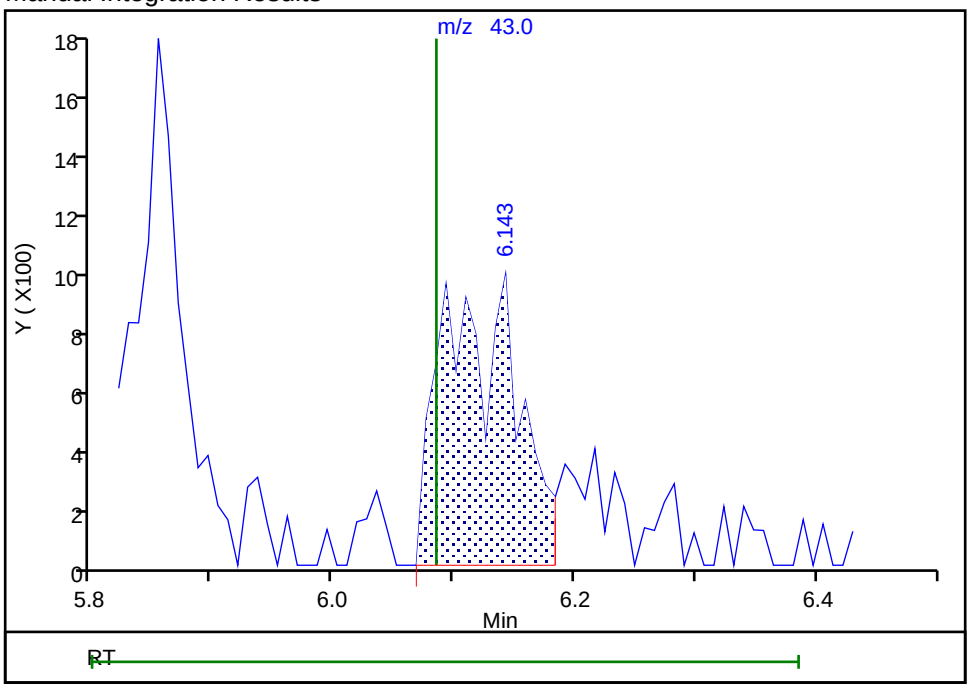
Not Detected
Expected RT: 6.09

Processing Integration Results



Manual Integration Results

RT: 6.14
Area: 4168
Amount: 0.938636
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

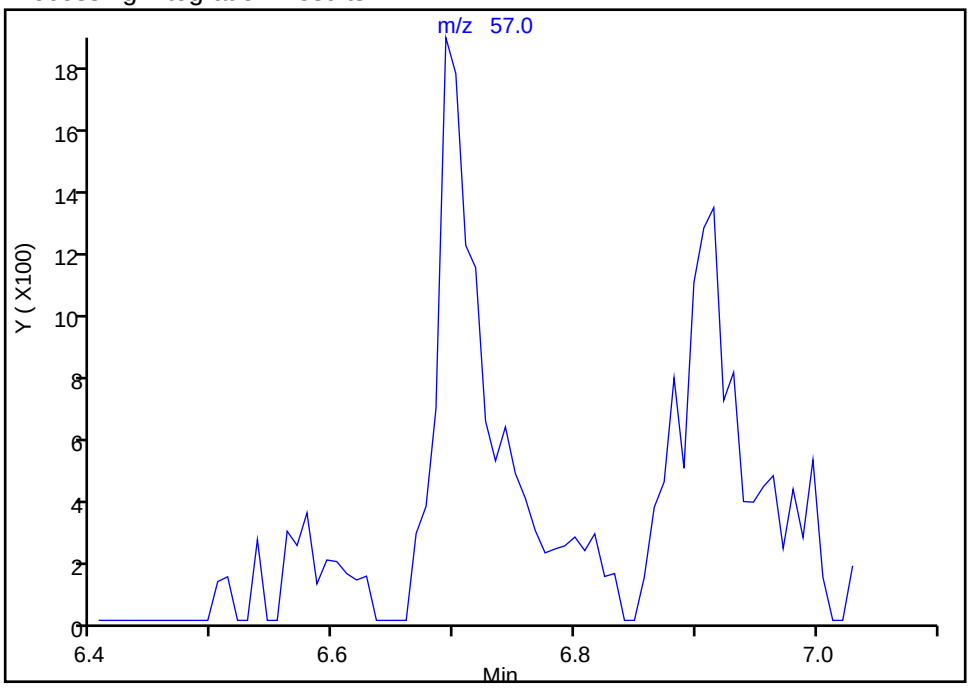
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

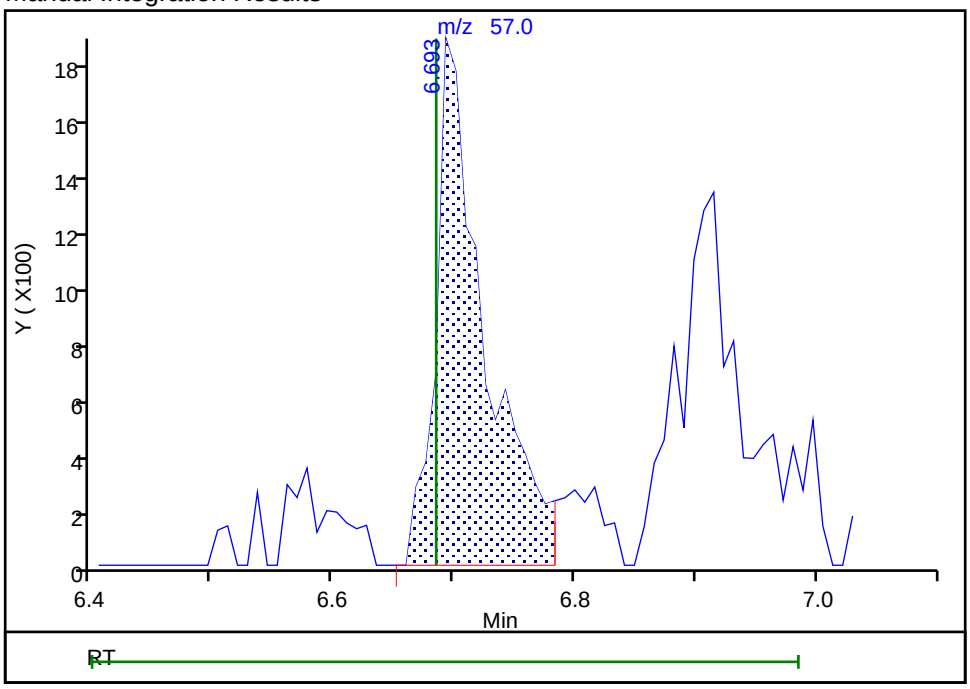
Not Detected
Expected RT: 6.69

Processing Integration Results



Manual Integration Results

RT: 6.69
Area: 5069
Amount: 18.530054
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

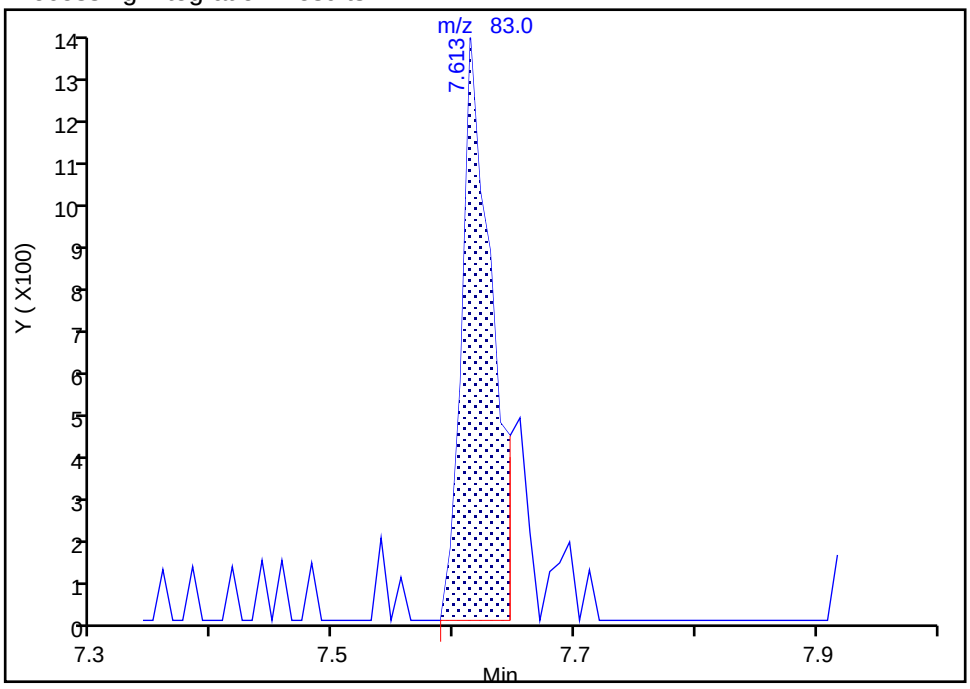
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

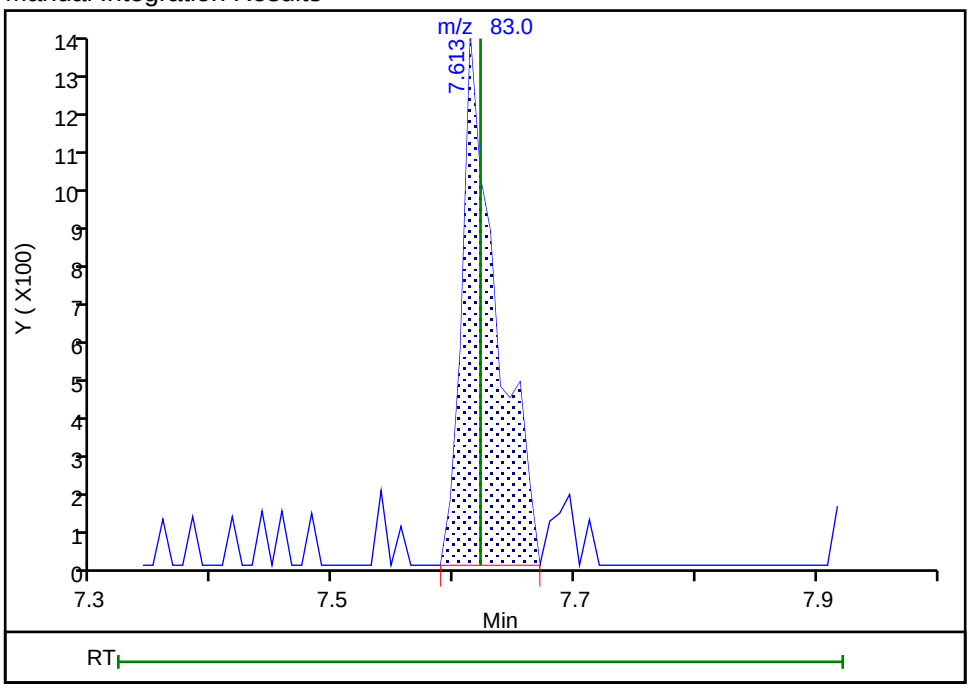
Processing Integration Results

RT: 7.61
Area: 2454
Amount: 0.842201
Amount Units: ug/l



Manual Integration Results

RT: 7.61
Area: 2798
Amount: 0.941731
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

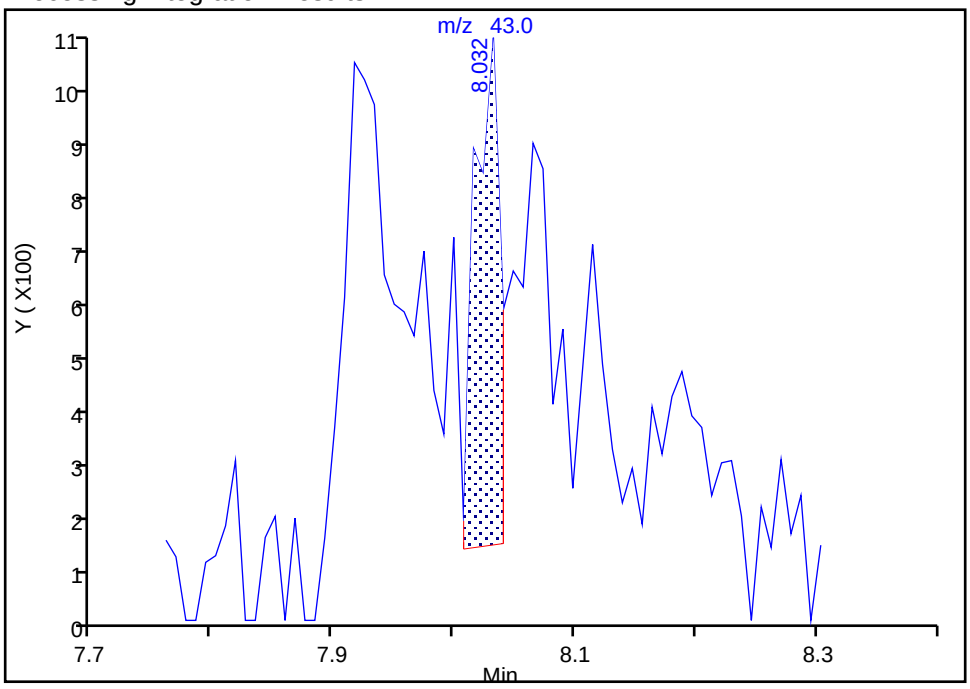
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 n-Butyl acetate, CAS: 123-86-4

Signal: 1

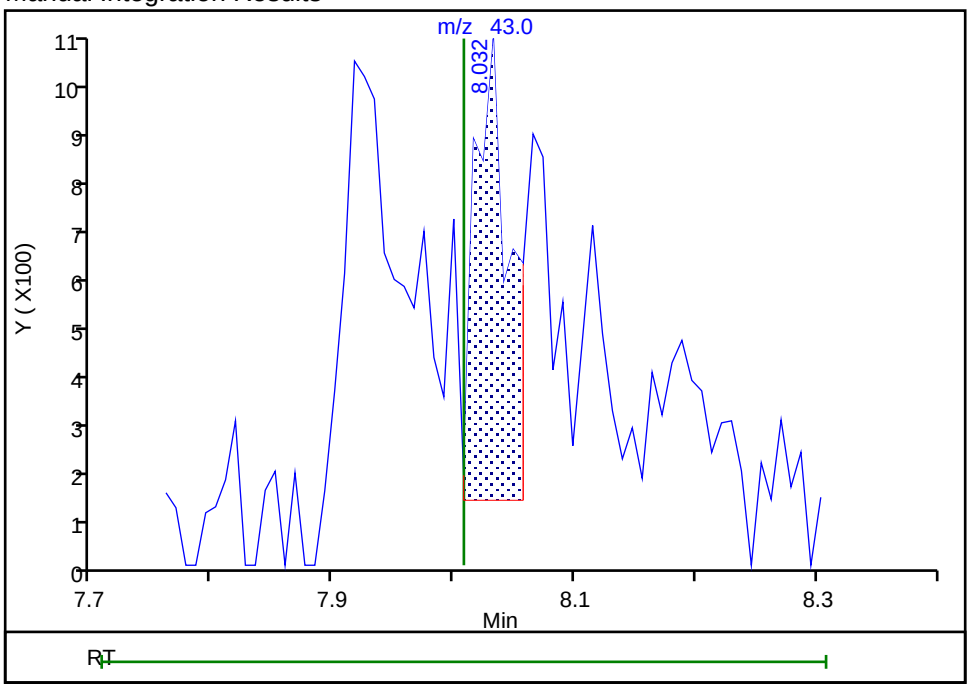
Processing Integration Results

RT: 8.03
Area: 1373
Amount: 0.278198
Amount Units: ug/l



Manual Integration Results

RT: 8.03
Area: 1864
Amount: 0.992171
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

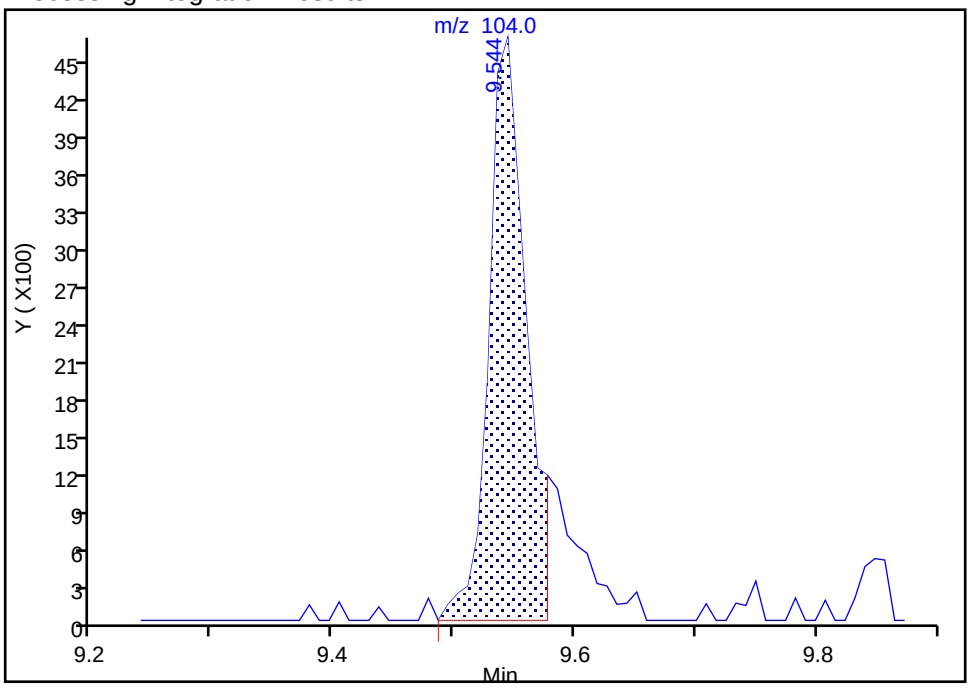
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 Styrene, CAS: 100-42-5

Signal: 1

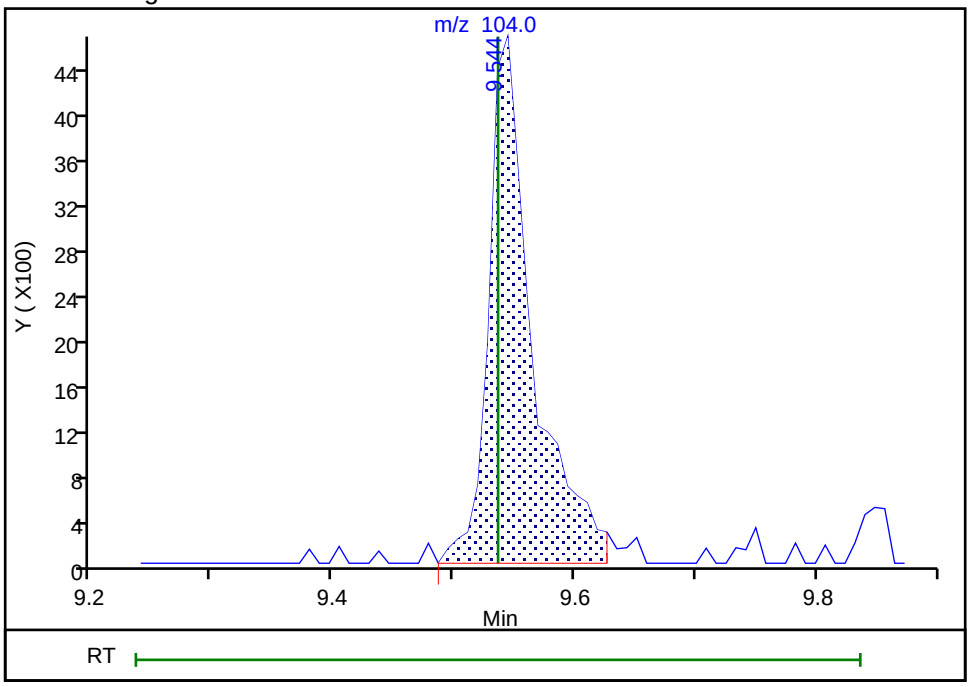
Processing Integration Results

RT: 9.54
Area: 9991
Amount: 0.822776
Amount Units: ug/l



Manual Integration Results

RT: 9.54
Area: 11669
Amount: 0.939329
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

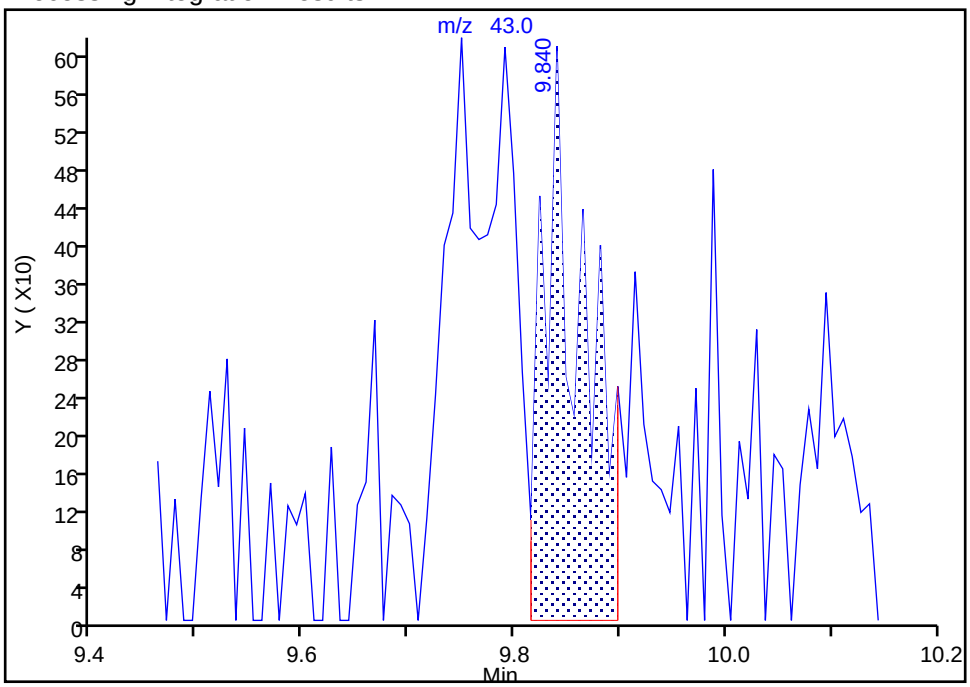
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

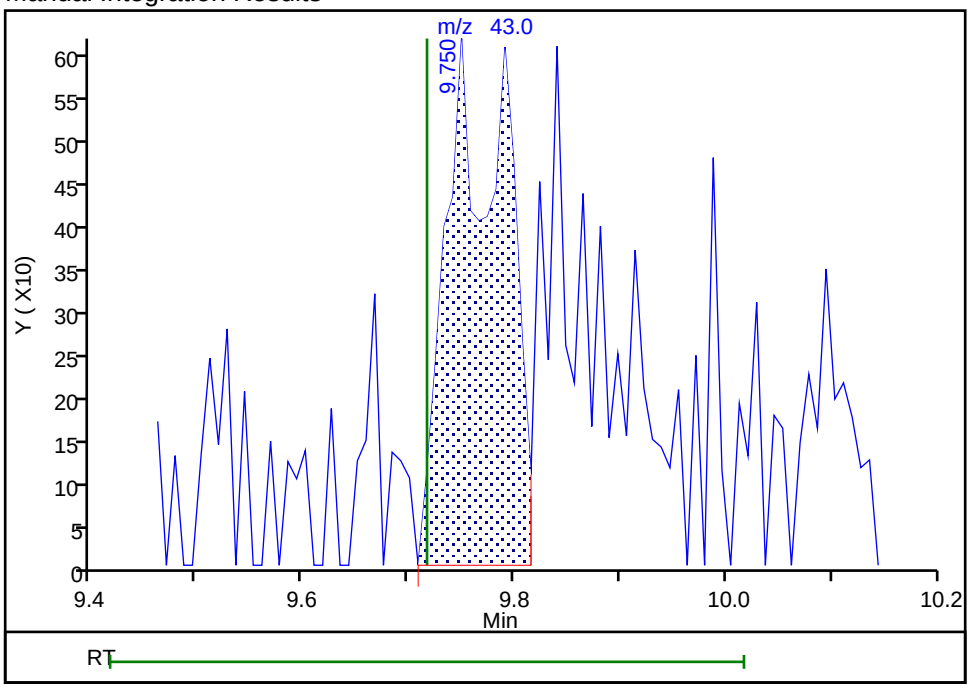
Processing Integration Results

RT: 9.84
Area: 1606
Amount: 0.253182
Amount Units: ug/l



Manual Integration Results

RT: 9.75
Area: 2413
Amount: 1.030421
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Jul-2018 09:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0075068-005
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:59 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:41:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.541	-0.016	86	14256	5.00	5.16	
2 Dichlorodifluoromethane	85	1.558	1.574	-0.016	98	34244	5.00	5.13	
3 Chloromethane	50	1.738	1.747	-0.009	99	40491	5.00	4.97	
4 Vinyl chloride	62	1.821	1.837	-0.016	97	42176	5.00	5.18	
5 Butadiene	54	1.829	1.837	-0.008	88	35790	5.00	4.83	
6 Bromomethane	94	2.108	2.116	-0.008	95	28760	5.00	5.11	
7 Chloroethane	64	2.166	2.182	-0.016	98	24353	5.00	5.03	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	83	55907	5.00	5.44	
10 Pentane	72	2.346	2.363	-0.017	98	10144	10.0	12.8	
9 Trichlorofluoromethane	101	2.346	2.371	-0.025	56	41932	5.00	5.56	
11 Ethanol	46	2.576	2.544	0.032	69	1593	200.0	159.3	M
12 Ethyl ether	59	2.544	2.552	-0.008	94	16040	5.00	4.77	
13 2-Methyl-1,3-butadiene	53	2.560	2.568	-0.008	94	19820	5.00	5.06	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	94	21483	5.00	5.36	
15 Acrolein	56	2.724	2.724	0.000	37	5038	20.0	20.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	94	25985	5.00	5.56	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	21834	5.00	5.03	
18 Acetone	43	2.831	2.848	-0.017	88	20985	25.0	25.8	
19 Iodomethane	142	2.905	2.913	-0.008	97	40210	5.00	5.14	
20 Isopropyl alcohol	45	2.922	2.946	-0.024	26	7433	50.0	50.5	
21 Carbon disulfide	76	2.938	2.955	-0.017	99	89893	5.00	5.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	92	42210	5.00	5.08	
24 Methyl acetate	43	3.070	3.078	-0.008	57	26571	10.0	10.6	
23 Cyclopentene	67	3.078	3.086	-0.008	90	56774	5.00	5.15	
25 Acetonitrile	41	3.135	3.144	-0.009	53	17289	50.0	39.9	
27 Methylene Chloride	84	3.185	3.193	-0.008	93	28558	5.00	5.35	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	125748	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.259	-0.009	91	12782	50.0	48.3	M
29 Methyl tert-butyl ether	73	3.341	3.349	-0.008	97	65514	5.00	5.10	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	24093	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	99	72019	50.0	50.2	
32 Hexane	43	3.513	3.522	-0.009	94	19556	5.00	5.00	
33 Isopropyl ether	45	3.719	3.727	-0.008	99	74480	5.00	5.07	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	47774	5.00	5.61	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	7751	10.0	9.41	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	90	20482	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	66745	5.00	4.85	
* 38 2-Butanone-d5	46	4.228	4.236	-0.008	0	142843	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.269	-0.016	65	8939	5.00	4.97	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	97	28363	5.00	5.26	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	84	9499	25.0	25.1	
42 Ethyl acetate	70	4.286	4.286	0.000	89	3962	10.0	10.5	
43 Methyl acrylate	55	4.351	4.351	0.000	96	12350	5.00	4.47	
44 Propionitrile	54	4.425	4.425	0.000	96	22168	50.0	47.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	85	13409	5.00	5.38	
46 Tetrahydrofuran	72	4.516	4.508	0.008	50	4446	10.0	9.41	
47 Methacrylonitrile	67	4.516	4.524	-0.008	91	75501	50.0	48.4	
48 Chloroform	83	4.549	4.549	0.000	97	39973	5.00	5.19	
49 Cyclohexane	84	4.680	4.688	-0.008	88	36899	5.00	5.14	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	54	34126	5.00	4.97	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	95222	50.0	50.9	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	29360	5.00	5.27	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	31815	5.00	5.24	
54 Isobutyl alcohol	43	4.976	4.992	-0.016	41	23852	125.0	112.1	
55 Benzene	78	5.033	5.033	0.000	96	97753	5.00	5.44	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	94533	50.0	47.3	
57 Isopropyl acetate	43	5.083	5.083	0.000	77	51248	5.00	4.66	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	73115	5.00	4.99	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	27555	5.00	4.97	
60 n-Heptane	57	5.173	5.181	-0.008	91	16247	5.00	4.83	
* 61 Fluorobenzene	96	5.313	5.321	-0.008	99	375144	50.0	50.0	
62 n-Butanol	56	5.682	5.650	0.032	25	3506	125.0	55.5	
63 Trichloroethene	95	5.666	5.674	-0.008	97	23075	5.00	4.99	
65 Ethyl acrylate	55	5.789	5.789	0.000	90	48819	5.00	4.86	
64 Methylcyclohexane	83	5.789	5.798	-0.009	89	40143	5.00	4.93	
66 1,2-Dichloropropane	63	5.954	5.962	-0.008	92	24865	5.00	5.19	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	10982	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	87	7979	10.0	9.03	
70 n-Propyl acetate	43	6.093	6.085	0.008	94	19557	5.00	4.40	
69 1,4-Dioxane	88	6.093	6.085	0.008	25	2029	100.0	96.8	
71 Dibromomethane	93	6.093	6.093	0.000	97	13049	5.00	4.78	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	27927	5.00	4.79	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	80	8574	5.00	4.10	
73 2-Nitropropane	41	6.570	6.570	0.000	88	8656	10.0	10.4	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	28499	100.0	99.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	31426	5.00	4.82	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	72940	25.0	25.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.981	-0.008	99	366322	50.0	51.7	
79 Toluene	91	7.055	7.055	0.000	92	95962	5.00	5.29	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	27107	5.00	4.99	
81 Ethyl methacrylate	69	7.441	7.433	0.008	86	20020	5.00	4.50	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	16220	5.00	5.37	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	95	23541	5.00	5.31	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	94	27661	5.00	4.84	
85 2-Hexanone	43	7.901	7.893	0.008	94	35757	25.0	23.3	
86 n-Butyl acetate	43	8.008	8.008	0.000	96	24106	5.00	5.21	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	19562	5.00	4.99	
88 Ethylene Dibromide	107	8.213	8.222	-0.009	100	17425	5.00	5.29	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	257261	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	58106	5.00	5.09	
91 Ethylbenzene	106	8.895	8.895	0.000	98	32213	5.00	4.88	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	95	22718	5.00	5.24	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	39690	5.00	5.05	
94 n-Butyl acrylate	73	9.495	9.487	0.008	46	12223	5.00	4.57	
95 o-Xylene	106	9.503	9.503	0.000	94	40346	5.00	4.96	
96 Styrene	104	9.536	9.536	0.000	96	59744	5.00	4.73	
97 Amyl acetate (mixed isomer	43	9.725	9.717	0.008	92	25124	5.00	4.26	
98 Bromoform	173	9.742	9.742	0.000	96	12599	5.00	5.02	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	102121	5.00	5.23	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	106636	50.0	51.3	
101 Bromobenzene	156	10.152	10.144	0.008	98	25405	5.00	4.73	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	26083	5.00	5.15	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	127766	5.00	5.18	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	6415	5.00	4.49	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	72	4806	5.00	4.72	
106 2-Chlorotoluene	91	10.292	10.292	0.000	93	87223	5.00	5.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	87	101134	5.00	4.98	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	89710	5.00	5.01	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	77680	5.00	5.06	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	23847	5.00	4.30	
111 tert-Butylbenzene	119	10.588	10.588	0.000	96	69427	5.00	4.81	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	96	92231	5.00	5.06	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	115270	5.00	5.18	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	92127	5.00	4.90	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	54210	5.00	5.14	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	155550	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	96	56793	5.00	5.23	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	97482	5.00	5.04	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	45280	5.00	4.68	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	93	102646	5.00	5.27	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	58887	5.00	5.09	
121 n-Butylbenzene	92	11.122	11.114	0.008	97	52880	5.00	4.93	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	54281	5.00	5.14	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	87056	5.00	4.82	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	4759	5.00	5.10	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	42265	5.00	5.14	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	36082	5.00	4.93	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	17800	5.00	5.13	
128 Naphthalene	128	12.314	12.314	0.000	99	71630	5.00	4.63	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	93	33688	5.00	4.80	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.3	
S 131 Xylenes, Total	100				0		10.0	10.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D

Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6 Operator ID:

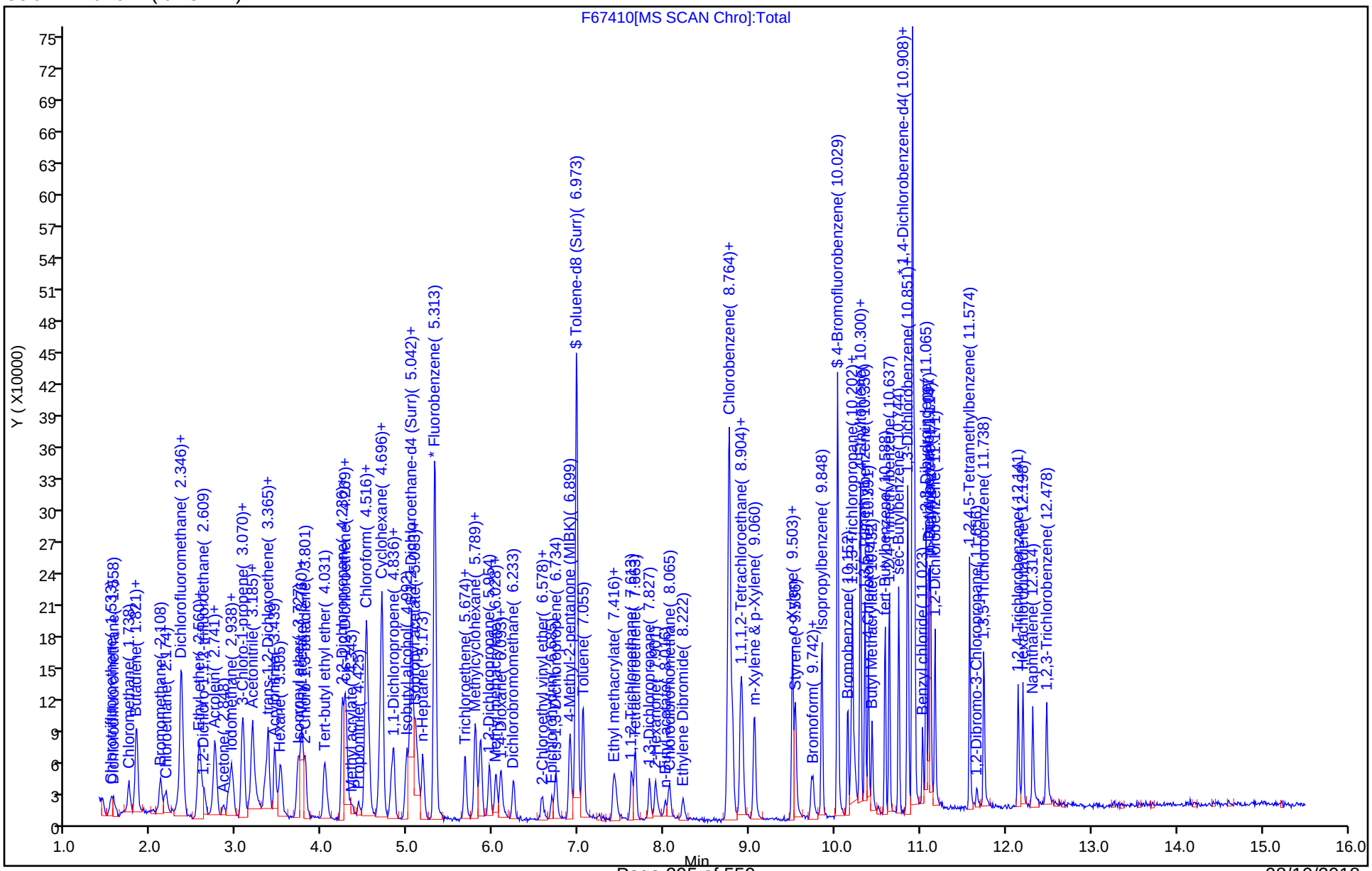
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

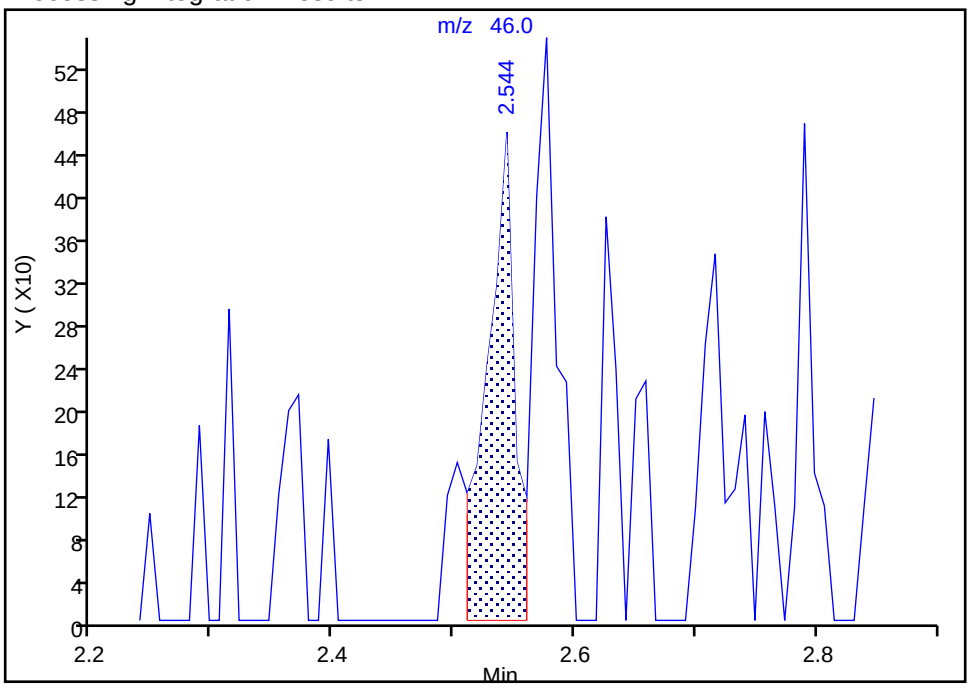
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

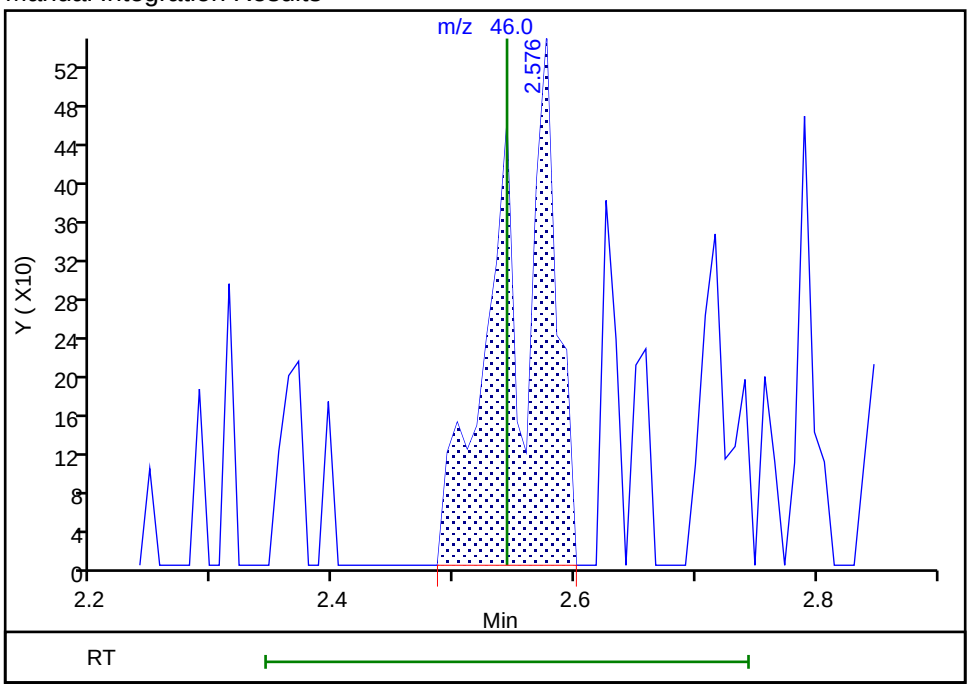
Processing Integration Results

RT: 2.54
Area: 764
Amount: 107.3294
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 1593
Amount: 159.3053
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:48:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

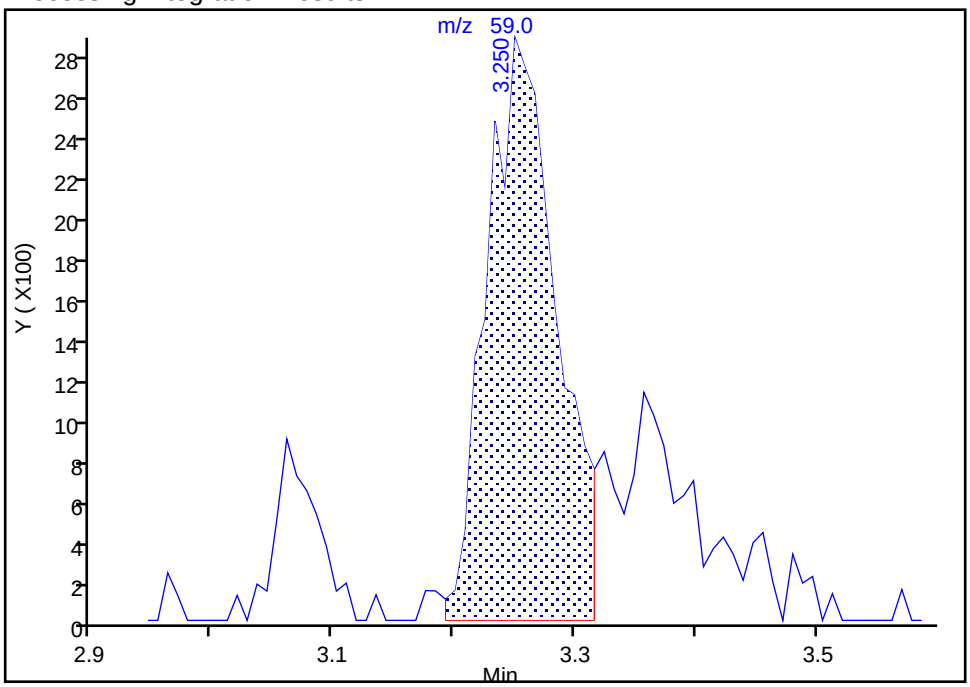
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

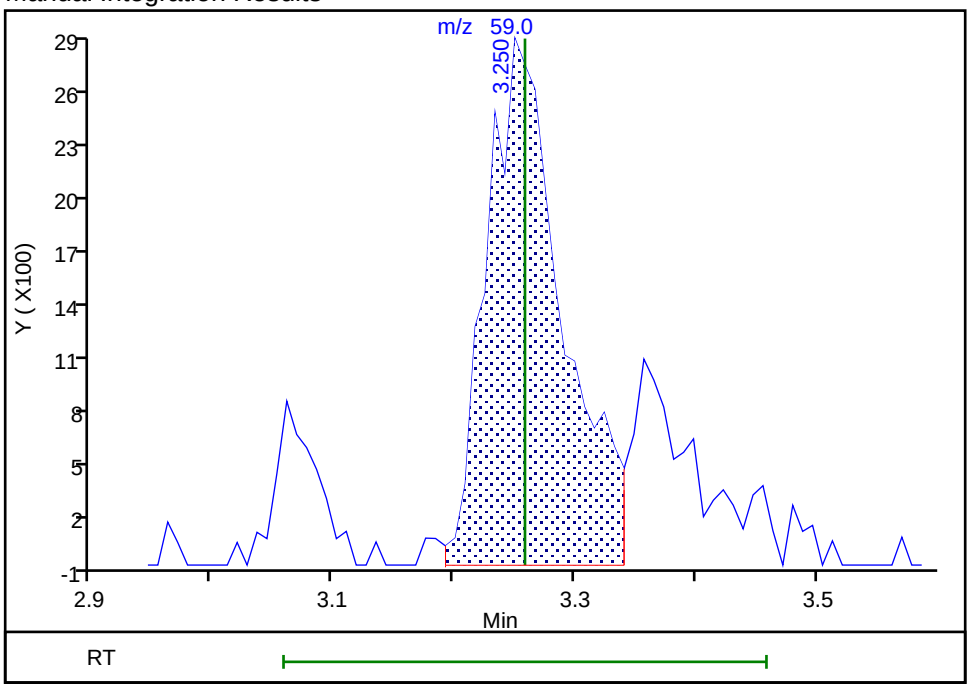
Processing Integration Results

RT: 3.25
Area: 11778
Amount: 45.112750
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 12782
Amount: 48.338693
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:49:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Jul-2018 09:24:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0075068-006
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:01:17 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 08-Jul-2018 18:59:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	55175	20.0	19.5	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	129388	20.0	19.0	
3 Chloromethane	50	1.747	1.747	0.000	98	160414	20.0	19.2	
5 Butadiene	54	1.837	1.837	0.000	93	142283	20.0	18.8	
4 Vinyl chloride	62	1.837	1.837	0.000	97	162796	20.0	19.5	
6 Bromomethane	94	2.116	2.116	0.000	98	110997	20.0	19.3	
7 Chloroethane	64	2.182	2.182	0.000	99	95876	20.0	19.4	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	222984	20.0	21.2	
10 Pentane	72	2.363	2.363	0.000	96	34097	40.0	42.9	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	56	152955	20.0	19.8	
11 Ethanol	46	2.544	2.544	0.000	77	8161	800.0	814.9	
12 Ethyl ether	59	2.552	2.552	0.000	94	71323	20.0	20.7	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	81333	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	94	82854	20.0	20.2	
15 Acrolein	56	2.724	2.724	0.000	91	10465	40.0	42.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	97594	20.0	20.4	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	87779	20.0	19.8	
18 Acetone	43	2.848	2.848	0.000	88	87955	100.0	100.9	
19 Iodomethane	142	2.913	2.913	0.000	98	161807	20.0	20.2	
20 Isopropyl alcohol	45	2.946	2.946	0.000	27	29403	200.0	199.6	
21 Carbon disulfide	76	2.955	2.955	0.000	99	345818	20.0	19.5	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	175027	20.0	20.6	
24 Methyl acetate	43	3.078	3.078	0.000	98	107177	40.0	41.7	
23 Cyclopentene	67	3.086	3.086	0.000	95	231916	20.0	20.6	
25 Acetonitrile	41	3.144	3.144	0.000	95	108682	200.0	250.4	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	125933	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	113133	20.0	20.7	
28 2-Methyl-2-propanol	59	3.259	3.259	0.000	91	58208	200.0	219.8	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	273962	20.0	20.8	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	101552	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	96	317916	200.0	216.8	
32 Hexane	43	3.522	3.522	0.000	91	77335	20.0	19.3	
33 Isopropyl ether	45	3.727	3.727	0.000	95	321190	20.0	21.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	182293	20.0	20.9	
35 Vinyl acetate	86	3.776	3.776	0.000	99	36794	40.0	43.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	89837	20.0	20.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	89	299751	20.0	21.3	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	152866	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	37516	20.0	20.4	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	116397	20.0	21.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	15347	40.0	38.0	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	42012	100.0	103.7	
43 Methyl acrylate	55	4.351	4.351	0.000	99	63052	20.0	21.6	
44 Propionitrile	54	4.425	4.425	0.000	98	108891	200.0	232.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	54045	20.0	21.2	
46 Tetrahydrofuran	72	4.508	4.508	0.000	51	20859	40.0	45.4	
47 Methacrylonitrile	67	4.524	4.524	0.000	90	334922	200.0	210.1	
48 Chloroform	83	4.549	4.549	0.000	98	171632	20.0	21.8	
49 Cyclohexane	84	4.688	4.688	0.000	90	146994	20.0	20.0	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	97	138900	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	97066	50.0	50.8	
52 Carbon tetrachloride	117	4.812	4.812	0.000	99	114190	20.0	20.0	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	98	126530	20.0	20.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	111808	500.0	524.7	
55 Benzene	78	5.033	5.033	0.000	95	402110	20.0	21.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	97955	50.0	48.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	228711	20.0	20.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	92	312799	20.0	20.9	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	112597	20.0	19.8	
60 n-Heptane	57	5.181	5.181	0.000	89	68281	20.0	19.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	383589	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	80	26985	500.0	423.7	
63 Trichloroethene	95	5.674	5.674	0.000	99	95905	20.0	20.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	96	215422	20.0	21.0	
64 Methylcyclohexane	83	5.798	5.798	0.000	88	168517	20.0	20.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	95	101451	20.0	20.7	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	12235	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	87	39048	40.0	39.6	
69 1,4-Dioxane	88	6.085	6.085	0.000	25	10773	400.0	461.3	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	89611	20.0	19.7	
71 Dibromomethane	93	6.093	6.093	0.000	96	57505	20.0	20.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	121094	20.0	20.3	
73 2-Nitropropane	41	6.570	6.570	0.000	81	30596	40.0	36.0	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	42627	20.0	19.9	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	134393	400.0	439.0	a
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	142629	20.0	20.7	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	344643	100.0	110.2	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	375578	50.0	50.1	
79 Toluene	91	7.055	7.055	0.000	93	409728	20.0	21.3	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	113666	20.0	19.8	
81 Ethyl methacrylate	69	7.433	7.433	0.000	88	98286	20.0	20.9	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	68341	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	96096	20.0	20.5	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	128841	20.0	21.3	
85 2-Hexanone	43	7.893	7.893	0.000	96	189724	100.0	102.8	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	107797	20.0	20.0	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	86190	20.0	20.8	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	72287	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	272089	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	254215	20.0	21.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	147681	20.0	21.2	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	95	95501	20.0	20.8	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	179024	20.0	21.5	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	56357	20.0	18.1	
95 o-Xylene	106	9.503	9.503	0.000	94	184452	20.0	21.4	
96 Styrene	104	9.536	9.536	0.000	96	293795	20.0	22.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	129234	20.0	19.6	
98 Bromoform	173	9.742	9.742	0.000	97	55269	20.0	20.8	
99 Isopropylbenzene	105	9.849	9.849	0.000	96	462092	20.0	22.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	111206	50.0	50.6	
101 Bromobenzene	156	10.144	10.144	0.000	98	113372	20.0	21.6	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	107861	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	557431	20.0	23.1	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	96	28590	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	23323	20.0	21.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	378178	20.0	22.3	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	468686	20.0	23.6	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	399827	20.0	22.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	338320	20.0	22.5	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	119948	20.0	20.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	307464	20.0	21.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	411165	20.0	23.1	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	491501	20.0	22.6	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	422281	20.0	23.0	a
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	229685	20.0	22.3	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	152088	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	239534	20.0	22.5	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	429601	20.0	22.7	
118 Benzyl chloride	91	11.024	11.024	0.000	99	213768	20.0	22.6	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	442460	20.0	23.3	
120 p-Diethylbenzene	119	11.098	11.098	0.000	94	260337	20.0	23.0	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	231171	20.0	22.1	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	96	230380	20.0	22.3	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	415827	20.0	23.6	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	19141	20.0	21.0	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	174592	20.0	21.7	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	157425	20.0	22.0	
127 Hexachlorobutadiene	225	12.199	12.199	0.000	95	67593	20.0	19.9	
128 Naphthalene	128	12.314	12.314	0.000	99	340468	20.0	22.5	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	149191	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.8	
S 131 Xylenes, Total	100				0		40.0	43.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	2.00	Units: uL	
MIX I Hi_00095	Amount Added:	2.00	Units: uL	
Ethanol mix_00017	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	2.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D

Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6 Operator ID:

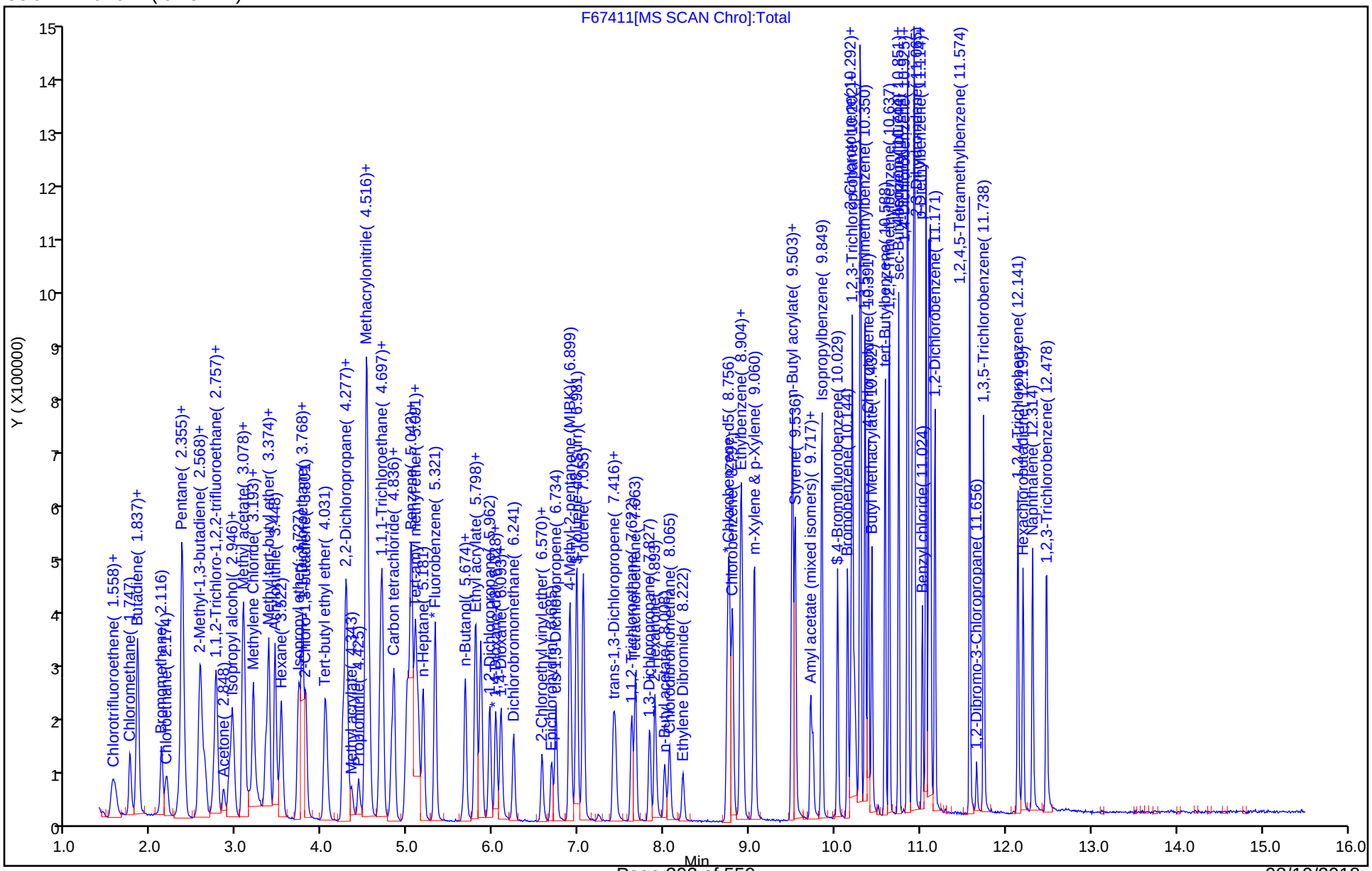
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

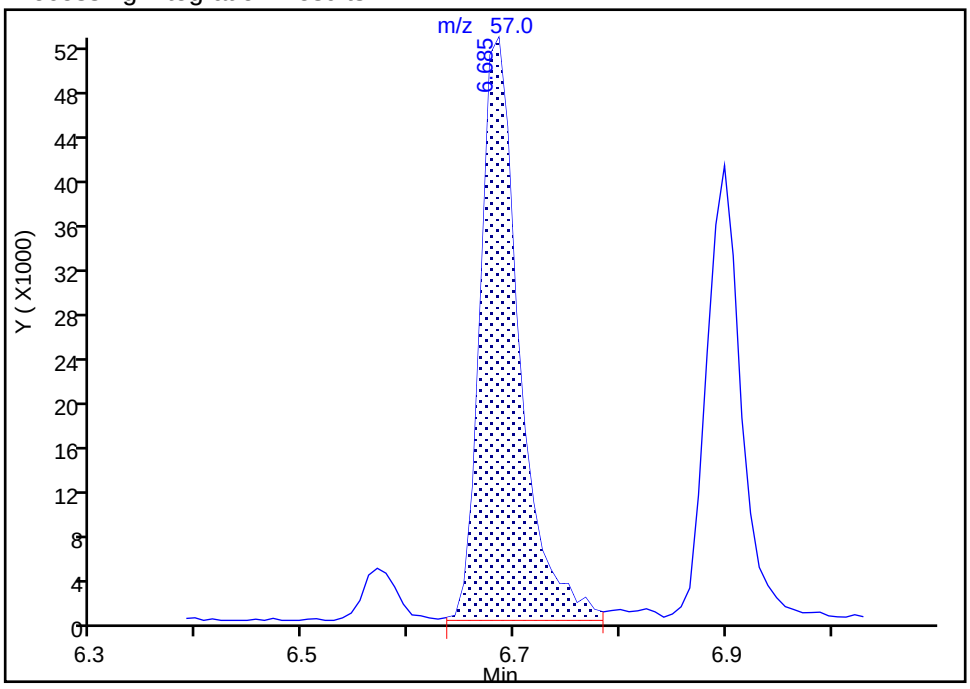
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

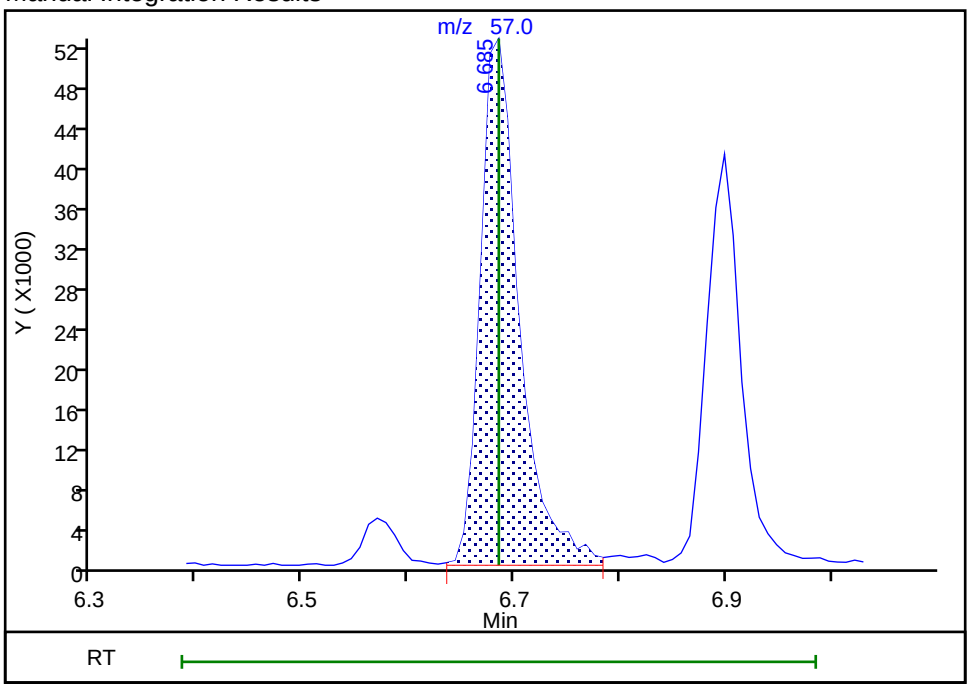
Processing Integration Results

RT: 6.69
Area: 134393
Amount: 546.8560
Amount Units: ug/l



Manual Integration Results

RT: 6.69
Area: 134393
Amount: 439.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:16:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

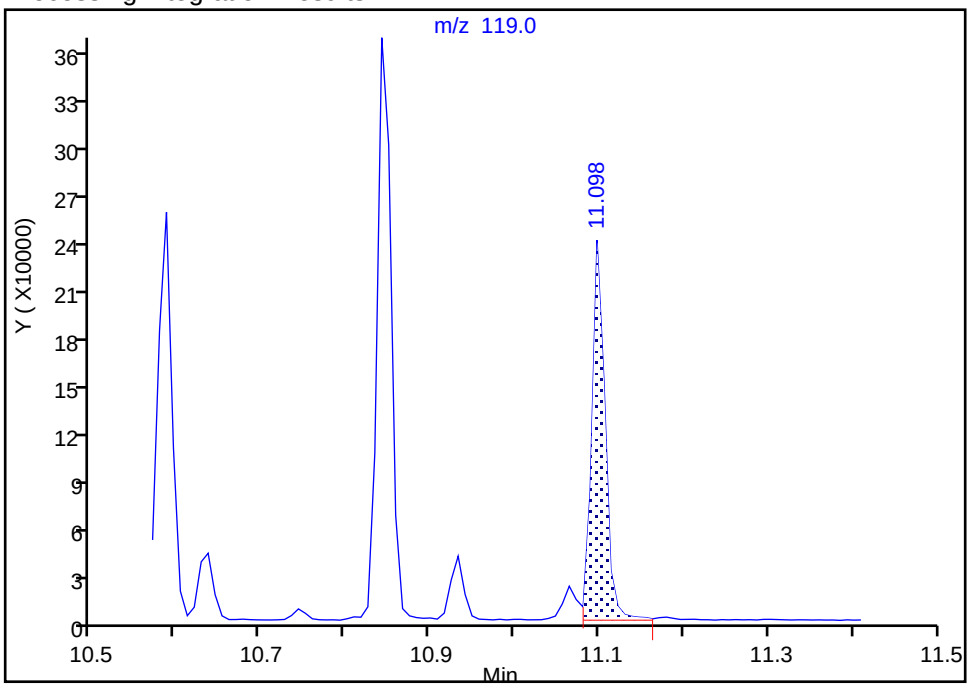
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Signal: 1

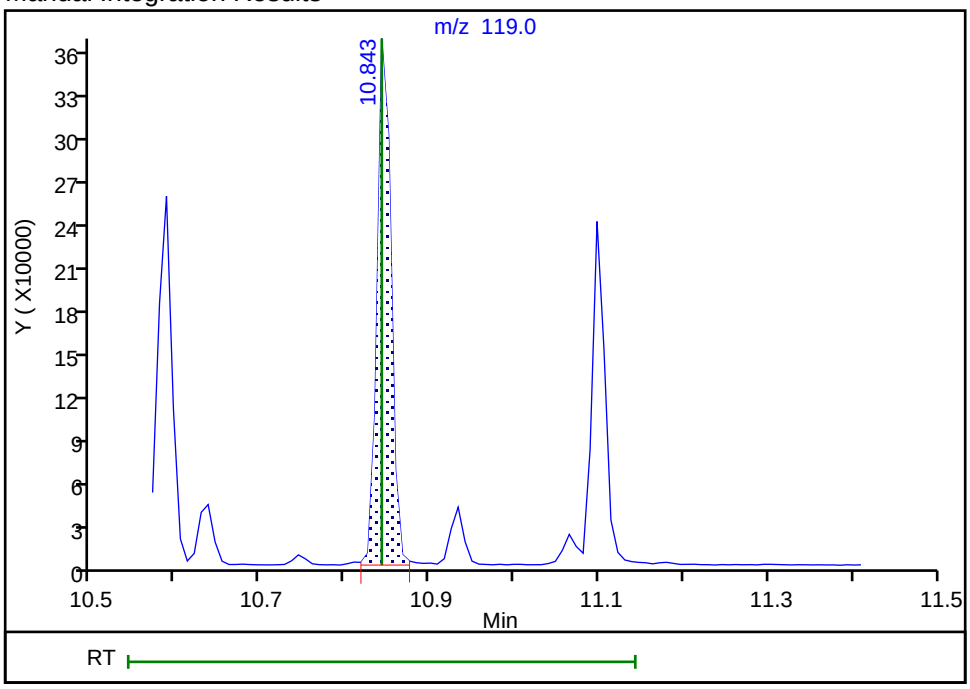
Processing Integration Results

RT: 11.10
Area: 260337
Amount: 22.700136
Amount Units: ug/l



Manual Integration Results

RT: 10.84
Area: 422281
Amount: 22.982314
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:17:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Jul-2018 09:47:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0075068-007
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:18:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	88	141971	50.0	49.0	
2 Dichlorodifluoromethane	85	1.565	1.574	-0.009	99	322297	50.0	46.1	
3 Chloromethane	50	1.738	1.747	-0.009	98	402640	50.0	47.1	
4 Vinyl chloride	62	1.828	1.837	-0.009	98	402833	50.0	47.2	
5 Butadiene	54	1.828	1.837	-0.009	94	362789	50.0	46.7	
6 Bromomethane	94	2.108	2.116	-0.008	98	268251	50.0	45.5	
7 Chloroethane	64	2.165	2.182	-0.017	100	240980	50.0	47.5	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	99	559613	50.0	52.0	
10 Pentane	72	2.354	2.363	-0.009	97	86045	100.0	99.7	
9 Trichlorofluoromethane	101	2.363	2.371	-0.009	98	380312	50.0	48.1	
11 Ethanol	46	2.551	2.544	0.007	68	21379	2000.0	1967.3	
12 Ethyl ether	59	2.543	2.552	-0.009	95	176623	50.0	50.1	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	195604	50.0	47.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	95	201129	50.0	47.9	
15 Acrolein	56	2.716	2.724	-0.008	93	24549	100.0	92.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.740	2.749	-0.009	97	224849	50.0	45.9	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	212440	50.0	46.7	
18 Acetone	43	2.839	2.848	-0.009	89	253164	250.0	283.0	
19 Iodomethane	142	2.905	2.913	-0.008	96	400327	50.0	48.8	
20 Isopropyl alcohol	45	2.929	2.946	-0.017	26	73566	500.0	460.2	
21 Carbon disulfide	76	2.946	2.955	-0.009	99	853831	50.0	46.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	424625	50.0	48.8	
24 Methyl acetate	43	3.069	3.078	-0.009	100	265412	100.0	100.7	
23 Cyclopentene	67	3.077	3.086	-0.009	95	585122	50.0	50.6	
25 Acetonitrile	41	3.135	3.144	-0.009	99	267502	500.0	568.0	a
27 Methylene Chloride	84	3.184	3.193	-0.009	91	266928	50.0	47.7	
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	136658	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.266	3.259	0.007	94	138256	500.0	481.1	
29 Methyl tert-butyl ether	73	3.340	3.349	-0.009	97	651186	50.0	48.3	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	93	251677	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.448	-0.009	95	797034	500.0	530.3	
32 Hexane	43	3.513	3.522	-0.009	91	190970	50.0	46.6	
33 Isopropyl ether	45	3.718	3.727	-0.009	96	778104	50.0	50.5	
34 1,1-Dichloroethane	63	3.759	3.760	-0.001	99	431590	50.0	48.3	
35 Vinyl acetate	86	3.759	3.776	-0.017	100	90865	100.0	105.2	
36 2-Chloro-1,3-butadiene	88	3.800	3.809	-0.009	89	219242	50.0	49.5	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	730944	50.0	50.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	156958	250.0	250.0	
39 2,2-Dichloropropane	97	4.252	4.269	-0.017	94	88442	50.0	46.9	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	98	281551	50.0	49.8	
41 2-Butanone (MEK)	72	4.285	4.286	-0.001	96	101840	250.0	244.8	
42 Ethyl acetate	70	4.285	4.286	-0.001	97	39552	100.0	95.3	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	148390	50.0	48.7	
44 Propionitrile	54	4.417	4.425	-0.008	99	280840	500.0	552.3	
45 Chlorobromomethane	128	4.499	4.499	0.000	89	129441	50.0	49.6	
46 Tetrahydrofuran	72	4.507	4.508	-0.001	55	45338	100.0	97.4	
47 Methacrylonitrile	67	4.515	4.524	-0.009	90	837786	500.0	512.9	
48 Chloroform	83	4.548	4.549	-0.001	99	405786	50.0	50.3	
49 Cyclohexane	84	4.680	4.688	-0.008	90	371058	50.0	49.3	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	98	347317	50.0	48.3	
$ 51 Dibromofluoromethane (Surr	113	4.704	4.705	-0.001	97	98684	50.0	50.4	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	288500	50.0	49.4	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	314753	50.0	49.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	289826	1250.0	1253.4	
55 Benzene	78	5.033	5.033	0.000	96	973646	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.049	5.050	-0.001	0	100245	50.0	47.9	
57 Isopropyl acetate	43	5.082	5.083	-0.001	98	598652	50.0	51.9	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	780186	50.0	50.8	
59 1,2-Dichloroethane	62	5.123	5.124	-0.001	96	271491	50.0	46.7	
60 n-Heptane	57	5.181	5.181	0.000	89	176244	50.0	50.0	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	393168	50.0	50.0	
62 n-Butanol	56	5.633	5.650	-0.017	86	74557	1250.0	1066.2	
63 Trichloroethene	95	5.666	5.674	-0.008	98	232897	50.0	48.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	551536	50.0	52.4	
64 Methylcyclohexane	83	5.789	5.798	-0.009	88	427028	50.0	50.0	
66 1,2-Dichloropropane	63	5.953	5.962	-0.009	94	247397	50.0	49.3	
* 67 1,4-Dioxane-d8	96	6.027	6.019	0.008	0	13144	1000.0	1000.0	
68 Methyl methacrylate	100	6.027	6.028	-0.001	87	100300	100.0	97.7	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	232351	50.0	49.9	
69 1,4-Dioxane	88	6.077	6.085	-0.008	27	26419	1000.0	1053.0	
71 Dibromomethane	93	6.093	6.093	0.000	94	135812	50.0	47.5	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	300964	50.0	49.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	78	117559	50.0	53.6	
73 2-Nitropropane	41	6.570	6.570	0.000	80	76847	100.0	88.3	
75 Epichlorohydrin	57	6.676	6.685	-0.009	99	346568	1000.0	1102.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	357305	50.0	49.7	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.899	-0.009	95	900558	250.0	280.5	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	394381	50.0	50.4	
79 Toluene	91	7.054	7.055	-0.001	93	1006532	50.0	50.3	
80 trans-1,3-Dichloropropene	75	7.399	7.408	-0.009	96	289370	50.0	48.2	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	263543	50.0	53.7	
82 1,1,2-Trichloroethane	83	7.621	7.622	-0.001	97	161457	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.662	7.663	-0.001	96	236993	50.0	48.4	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	316304	50.0	50.1	
85 2-Hexanone	43	7.892	7.893	-0.001	95	495888	250.0	256.8	
86 n-Butyl acetate	43	7.999	8.008	-0.009	98	278220	50.0	48.5	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	209847	50.0	48.5	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	98	180408	50.0	49.6	
* 89 Chlorobenzene-d5	117	8.763	8.764	-0.001	84	283921	50.0	50.0	
90 Chlorobenzene	112	8.796	8.797	-0.001	95	627990	50.0	49.8	
91 Ethylbenzene	106	8.895	8.895	0.000	98	363682	50.0	49.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	237090	50.0	49.6	
93 m-Xylene & p-Xylene	106	9.051	9.060	-0.009	0	436228	50.0	50.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	168864	50.0	50.9	
95 o-Xylene	106	9.503	9.503	0.000	95	461789	50.0	51.5	
96 Styrene	104	9.536	9.536	0.000	96	723592	50.0	51.9	
97 Amyl acetate (mixed isomer	43	9.708	9.717	-0.009	91	361611	50.0	49.5	
98 Bromoform	173	9.741	9.742	-0.001	97	134241	50.0	48.4	
99 Isopropylbenzene	105	9.848	9.849	-0.001	95	1150898	50.0	53.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	114885	50.0	50.1	
101 Bromobenzene	156	10.144	10.144	0.000	98	280301	50.0	49.2	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	258315	50.0	48.1	
103 N-Propylbenzene	91	10.201	10.202	-0.001	100	1357000	50.0	51.9	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	97	73193	50.0	48.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	81	57460	50.0	46.9	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	927450	50.0	50.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	1143475	50.0	53.1	
108 1,3,5-Trimethylbenzene	105	10.349	10.350	-0.001	94	967312	50.0	50.9	
109 4-Chlorotoluene	91	10.390	10.391	-0.001	97	819475	50.0	50.3	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	348236	50.0	53.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	794229	50.0	51.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	1017023	50.0	52.6	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	1229308	50.0	52.1	
114 4-Isopropyltoluene	119	10.842	10.843	-0.001	98	1052591	50.0	52.8	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	96	555469	50.0	49.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	164965	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	575508	50.0	49.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	1072303	50.0	52.2	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	548852	50.0	53.5	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	94	1083183	50.0	52.5	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	642482	50.0	52.4	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	574560	50.0	50.5	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	571740	50.0	51.1	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	1031262	50.0	53.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	46130	50.0	46.6	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	447000	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	410186	50.0	52.9	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	176091	50.0	47.8	
128 Naphthalene	128	12.313	12.314	-0.001	99	924647	50.0	56.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	378094	50.0	50.8	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.8	
S 131 Xylenes, Total	100				0		100.0	101.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
GAS Hi_00262	Amount Added:	5.00	Units: uL	
MIX I Hi_00095	Amount Added:	5.00	Units: uL	
Ethanol mix_00017	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	5.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:18:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D

Injection Date: 08-Jul-2018 09:47:30 Instrument ID: CVOAMS6 Operator ID:

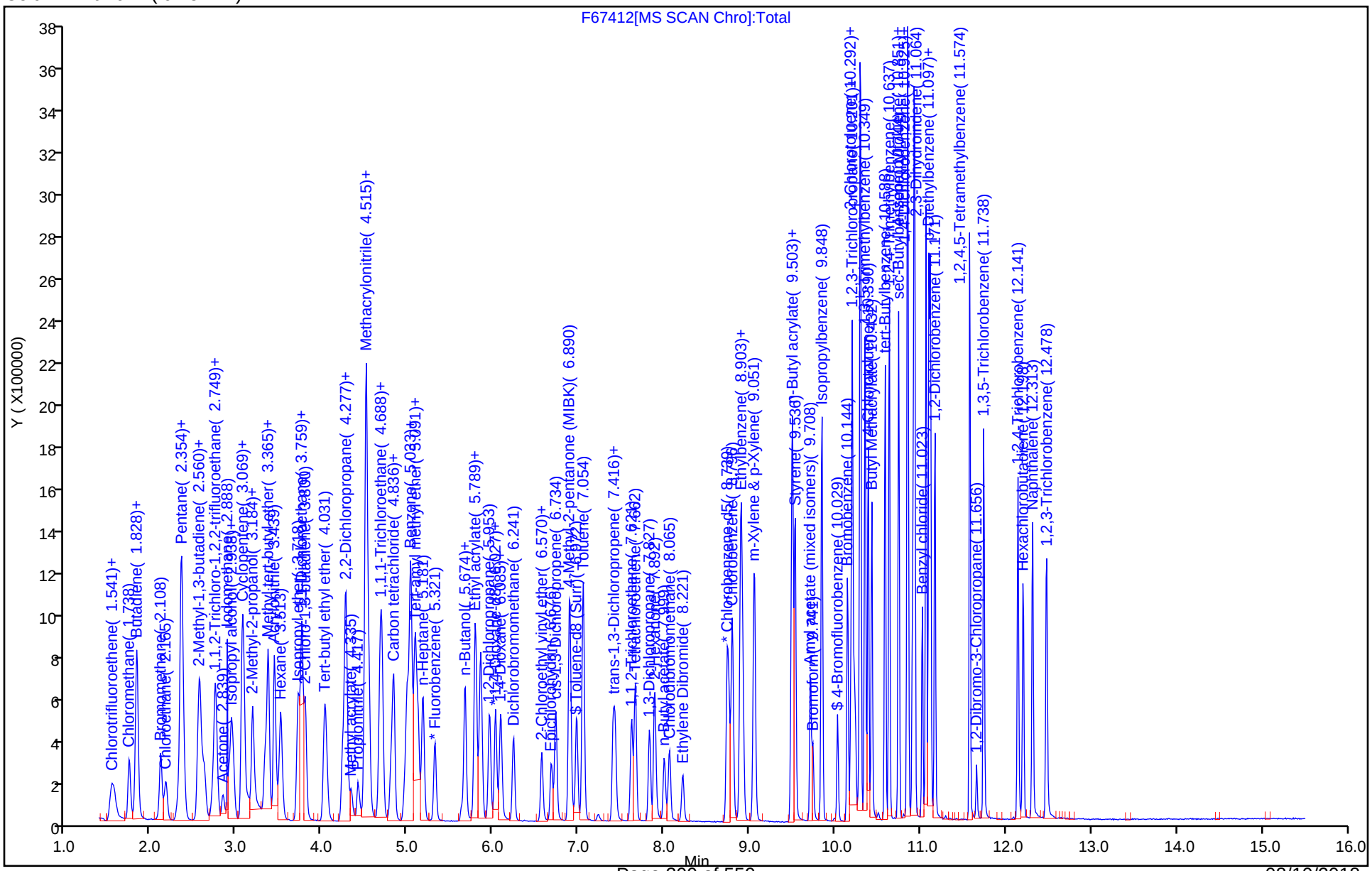
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

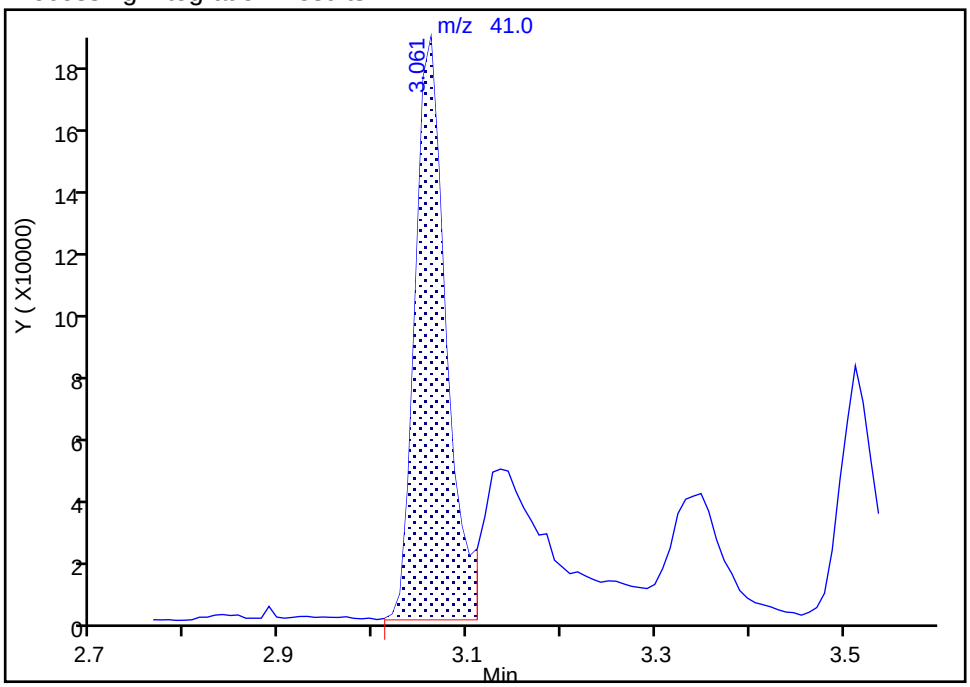
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Injection Date: 08-Jul-2018 09:47:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

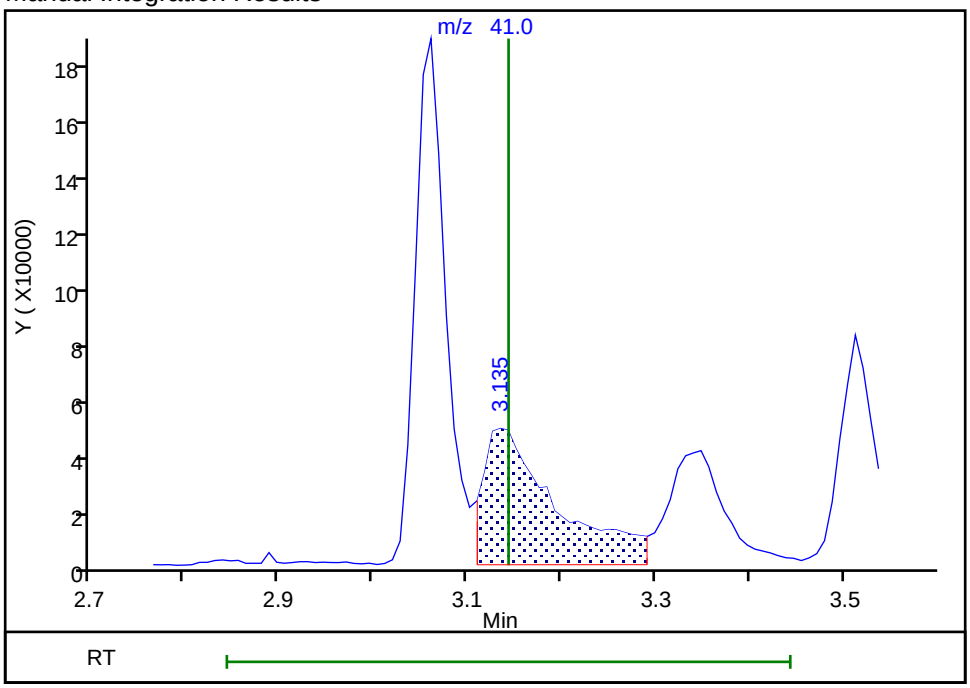
Processing Integration Results

RT: 3.06
Area: 436646
Amount: 503.1977
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 267502
Amount: 567.9606
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:52:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Jul-2018 10:11:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0075068-008
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:02 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	709694	200.0	222.4	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	1693948	200.0	219.8	
3 Chloromethane	50	1.755	1.747	0.008	98	1896409	200.0	201.5	
4 Vinyl chloride	62	1.837	1.837	0.000	97	1926255	200.0	204.8	
5 Butadiene	54	1.837	1.837	0.000	95	1765160	200.0	206.4	
6 Bromomethane	94	2.116	2.116	0.000	99	1241756	200.0	191.0	
7 Chloroethane	64	2.182	2.182	0.000	99	1084123	200.0	194.0	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	99	2202861	200.0	185.7	
10 Pentane	72	2.363	2.363	0.000	97	352397	400.0	369.2	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	99	1659910	200.0	190.6	
11 Ethanol	46	2.544	2.544	0.000	72	88716	8000.0	7381.9	
12 Ethyl ether	59	2.544	2.552	-0.008	94	776872	200.0	199.9	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	818433	200.0	180.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	92	863219	200.0	186.7	
15 Acrolein	56	2.724	2.724	0.000	92	60692	200.0	206.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	1011610	200.0	187.5	
17 1,1-Dichloroethene	96	2.765	2.757	0.008	98	972069	200.0	194.1	
18 Acetone	43	2.839	2.848	-0.009	89	1098210	1000.0	1043.7	
19 Iodomethane	142	2.922	2.913	0.009	97	1740678	200.0	192.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	98	327318	2000.0	1851.6	
21 Carbon disulfide	76	2.954	2.955	-0.001	99	3761206	200.0	187.7	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	99	1861456	200.0	194.2	
24 Methyl acetate	43	3.069	3.078	-0.009	98	1149470	400.0	396.0	
23 Cyclopentene	67	3.086	3.086	0.000	94	2394522	200.0	188.1	
25 Acetonitrile	41	3.135	3.144	-0.009	96	1036510	2000.0	1990.0	a
27 Methylene Chloride	84	3.193	3.193	0.000	91	1151163	200.0	186.7	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	151129	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.267	3.259	0.008	96	633643	2000.0	1993.9	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	2851896	200.0	192.1	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	94	1063814	200.0	192.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	95	3392609	2000.0	2048.8	
32 Hexane	43	3.521	3.522	-0.001	91	886813	200.0	196.5	
33 Isopropyl ether	45	3.727	3.727	0.000	96	3269485	200.0	192.7	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	1832242	200.0	186.2	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	393956	400.0	414.2	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	902621	200.0	184.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	3116079	200.0	196.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	184601	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.269	-0.008	94	385912	200.0	185.9	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	99	1193877	200.0	191.6	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	494630	1000.0	1011.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	182512	400.0	373.9	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	703275	200.0	206.2	
44 Propionitrile	54	4.425	4.425	0.000	99	1212845	2000.0	2156.8	
45 Chlorobromomethane	128	4.499	4.499	0.000	88	545825	200.0	189.8	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	71	217035	400.0	400.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	3671286	2000.0	2040.1	
48 Chloroform	83	4.549	4.549	-0.001	99	1703395	200.0	191.6	
49 Cyclohexane	84	4.688	4.688	0.000	90	1659263	200.0	200.0	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	99	1481430	200.0	187.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	95	101418	50.0	47.0	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	1246124	200.0	193.7	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	1366551	200.0	194.9	
54 Isobutyl alcohol	43	5.000	4.992	0.008	93	1374822	5000.0	5376.2	
55 Benzene	78	5.033	5.033	0.000	96	4204764	200.0	189.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	118946	50.0	51.6	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	2552684	200.0	201.1	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	91	3408504	200.0	201.6	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	1168815	200.0	182.5	
60 n-Heptane	57	5.181	5.181	0.000	89	827096	200.0	212.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	433129	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	420980	5000.0	5073.6	
63 Trichloroethene	95	5.674	5.674	0.000	99	1018520	200.0	190.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	2520560	200.0	217.5	
64 Methylcyclohexane	83	5.797	5.798	-0.001	89	1975138	200.0	209.9	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	1087509	200.0	196.7	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	18634	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	477153	400.0	418.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	1093852	200.0	213.1	
69 1,4-Dioxane	88	6.077	6.085	-0.008	28	112735	4000.0	3169.6	
71 Dibromomethane	93	6.093	6.093	0.000	97	596905	200.0	189.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	1337273	200.0	198.8	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	545482	200.0	225.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	351273	400.0	366.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	1608905	4000.0	4352.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	91	1656751	200.0	205.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	94	4041093	1000.0	1070.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	434144	50.0	49.6	
79 Toluene	91	7.055	7.055	0.000	94	4313597	200.0	192.6	
80 trans-1,3-Dichloropropene	75	7.400	7.408	-0.008	97	1357534	200.0	202.3	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	1244261	200.0	226.5	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	729655	200.0	195.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	1048499	200.0	191.6	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	1431570	200.0	202.9	
85 2-Hexanone	43	7.885	7.893	-0.008	94	2420551	1000.0	1055.6	
86 n-Butyl acetate	43	8.000	8.008	-0.008	98	1269986	200.0	196.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	99	952604	200.0	197.0	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	823898	200.0	202.5	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	317540	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	94	2735326	200.0	194.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	1582697	200.0	194.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	1030138	200.0	192.7	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	1957917	200.0	201.8	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	786020	200.0	210.0	
95 o-Xylene	106	9.503	9.503	0.000	95	2021512	200.0	201.4	
96 Styrene	104	9.536	9.536	0.000	96	3210461	200.0	205.8	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	1680483	200.0	207.8	
98 Bromoform	173	9.742	9.742	0.000	97	622246	200.0	200.8	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	4847598	200.0	201.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	126322	50.0	49.3	
101 Bromobenzene	156	10.144	10.144	0.000	98	1192585	200.0	190.8	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	1136664	200.0	192.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	5512304	200.0	192.3	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	303924	200.0	182.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	91	269249	200.0	198.5	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	3931428	200.0	194.7	
107 4-Ethyltoluene	105	10.300	10.300	0.000	88	4666273	200.0	197.5	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	95	4161635	200.0	199.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	3472777	200.0	194.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	1621447	200.0	211.5	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	3537058	200.0	210.6	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	4244360	200.0	200.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	97	5255599	200.0	203.1	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	96	4526133	200.0	207.1	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	95	2369298	200.0	193.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	180897	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	93	2386982	200.0	188.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	4429798	200.0	196.8	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	2408788	200.0	214.1	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	4322939	200.0	191.0	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	93	2565032	200.0	190.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	100	2490143	200.0	199.8	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	2314674	200.0	188.6	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	4209686	200.0	200.5	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	210427	200.0	193.8	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	1794877	200.0	187.6	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	1729926	200.0	203.3	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	95	780509	200.0	193.4	
128 Naphthalene	128	12.313	12.314	-0.001	99	3874891	200.0	215.2	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	1551295	200.0	190.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	383.7	
S 131 Xylenes, Total	100				0		400.0	403.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	20.00	Units: uL	
GAS Hi_00262	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
Ethanol mix_00017	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:05 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D

Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6 Operator ID:

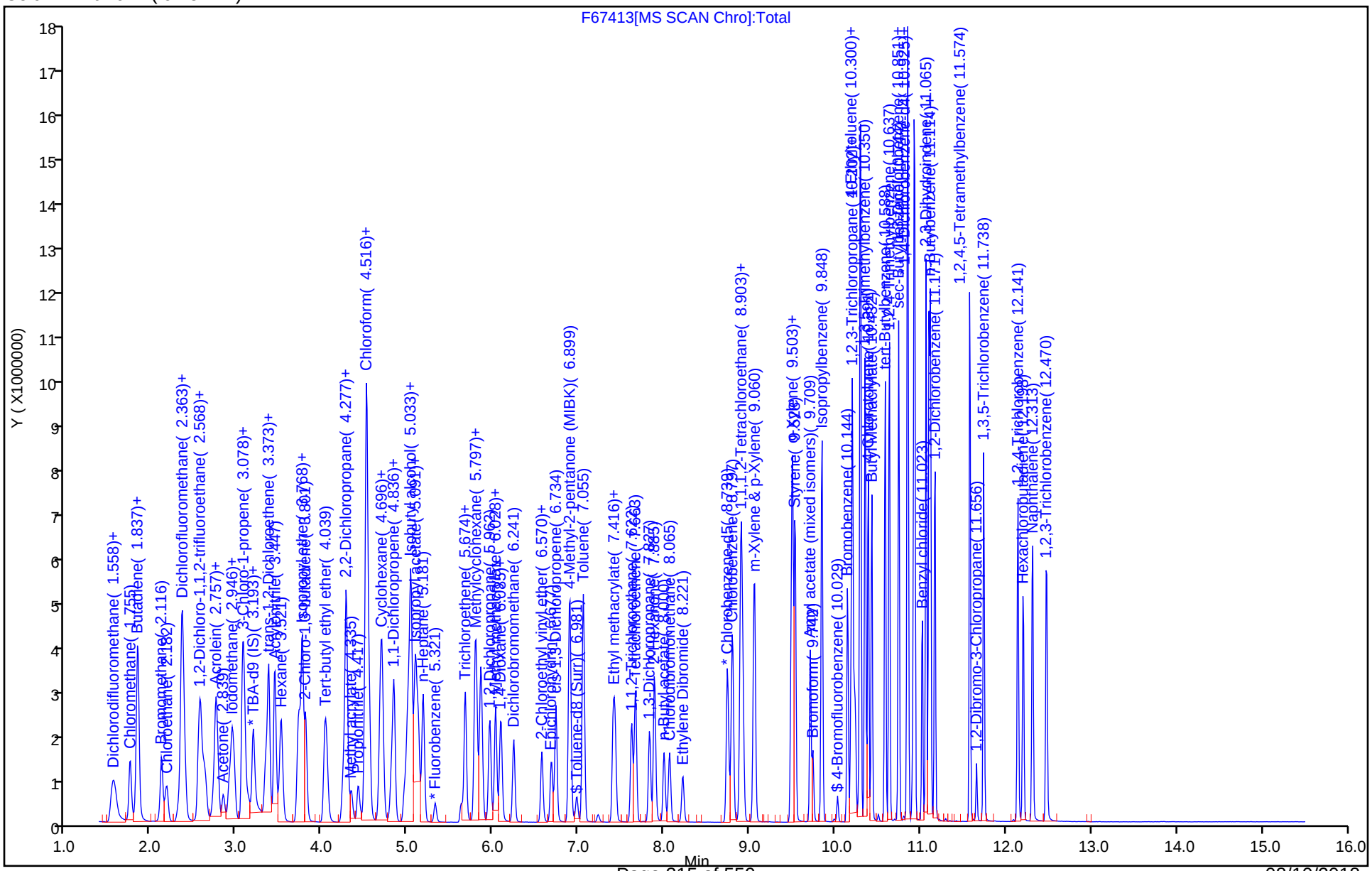
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

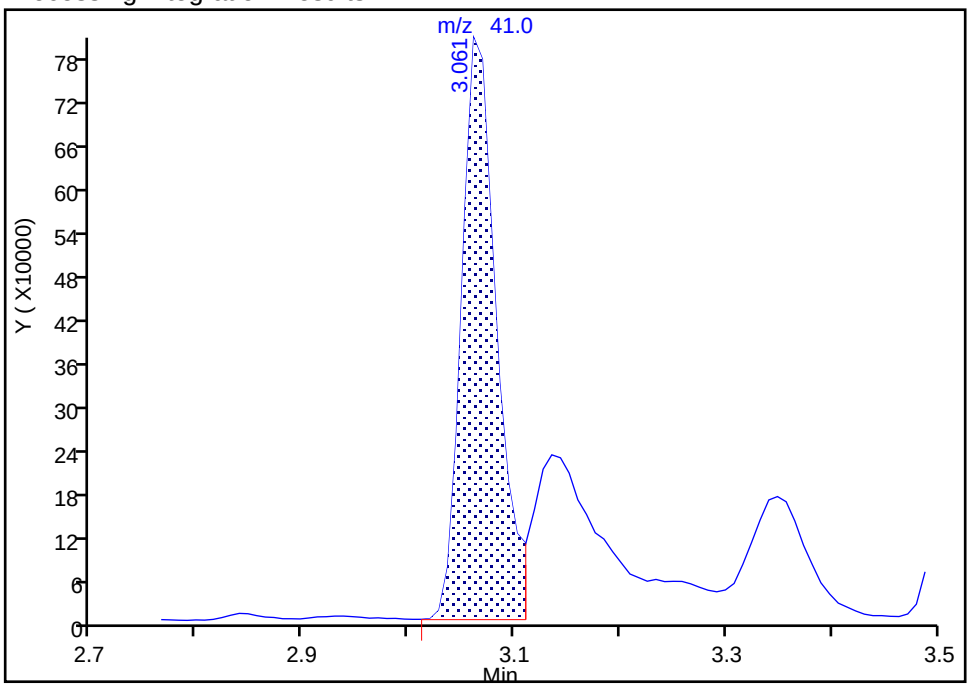
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

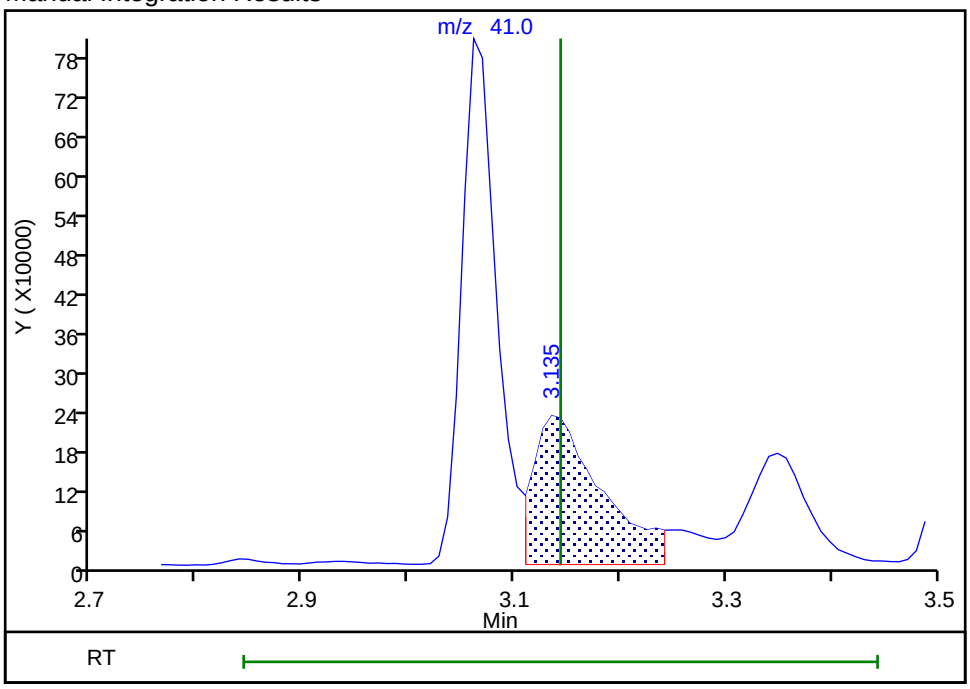
Processing Integration Results

RT: 3.06
Area: 1855304
Amount: 2081.1534
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1036510
Amount: 1989.9948
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:54:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

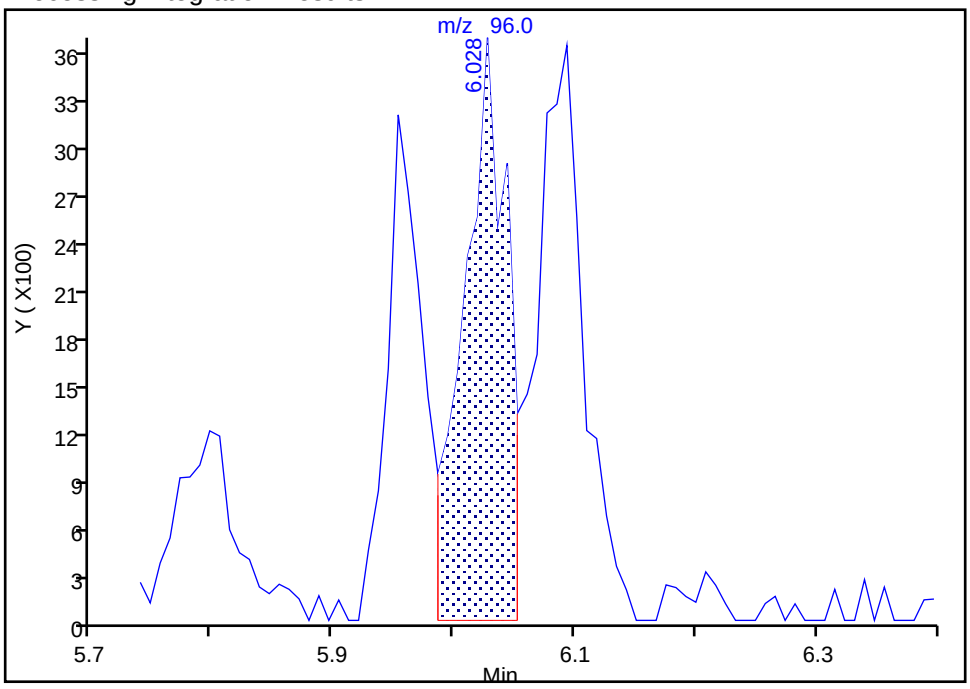
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

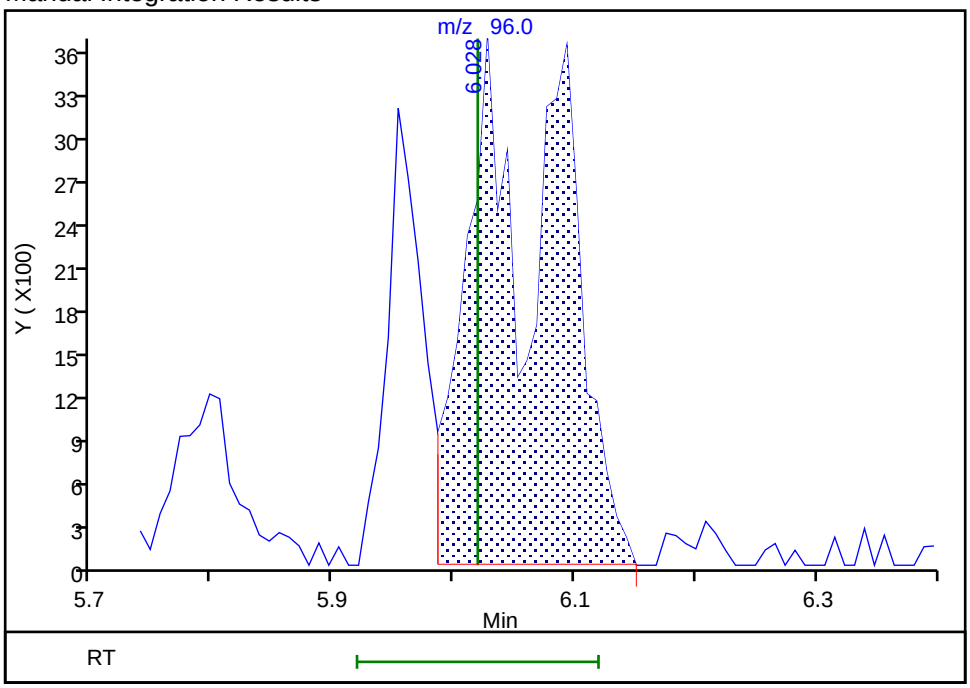
Processing Integration Results

RT: 6.03
Area: 9242
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.03
Area: 18634
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:56:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Jul-2018 10:34:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0075068-009
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:16 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	1936409	500.0	569.7	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	4408691	500.0	537.2	
3 Chloromethane	50	1.747	1.747	0.000	98	4846961	500.0	483.5	
5 Butadiene	54	1.837	1.837	0.000	96	4620836	500.0	507.4	
4 Vinyl chloride	62	1.837	1.837	0.000	98	4953087	500.0	494.5	
6 Bromomethane	94	2.116	2.116	0.000	99	3175435	500.0	458.6	
7 Chloroethane	64	2.182	2.182	0.000	99	2820281	500.0	473.8	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	5736092	500.0	454.0	
10 Pentane	72	2.371	2.363	0.008	96	1096295	1000.0	974.5	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	98	4430449	500.0	477.6	
11 Ethanol	46	2.552	2.544	0.008	85	294889	20000	20821	
12 Ethyl ether	59	2.544	2.552	-0.008	94	2046129	500.0	494.5	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	2438118	500.0	506.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	91	2314842	500.0	470.1	
15 Acrolein	56	2.724	2.724	0.000	91	167400	400.0	483.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	2805995	500.0	488.4	
17 1,1-Dichloroethene	96	2.774	2.757	0.017	98	2684576	500.0	503.3	
18 Acetone	43	2.839	2.848	-0.009	89	2964336	2500.0	2357.7	
19 Iodomethane	142	2.922	2.913	0.009	97	4521161	500.0	469.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	96	1092262	5000.0	5243.0	
21 Carbon disulfide	76	2.963	2.955	0.008	99	9931387	500.0	465.3	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	97	4802050	500.0	470.5	
24 Methyl acetate	43	3.069	3.078	-0.009	99	3098846	1000.0	1002.5	
23 Cyclopentene	67	3.086	3.086	0.000	94	6754156	500.0	498.3	
25 Acetonitrile	41	3.135	3.144	-0.009	96	3119121	5000.0	5081.4	a
* 26 TBA-d9 (IS)	65	3.209	3.193	0.016	0	178105	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	3042833	500.0	463.4	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	98	1943662	5000.0	5189.7	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	98	7468949	500.0	472.5	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	2764093	500.0	468.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	94	8608034	5000.0	4881.2	
32 Hexane	43	3.521	3.522	-0.001	91	2425866	500.0	504.7	
33 Isopropyl ether	45	3.727	3.727	0.000	95	8637675	500.0	477.9	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	100	4763691	500.0	454.5	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	1066727	1000.0	1053.0	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	89	2504213	500.0	481.5	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	8249314	500.0	487.2	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	220581	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	1041602	500.0	471.0	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	3137762	500.0	472.8	
42 Ethyl acetate	70	4.286	4.286	0.000	95	506767	1000.0	868.8	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	1328915	2500.0	2273.5	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	1967582	500.0	528.9	
44 Propionitrile	54	4.425	4.425	0.000	99	3294672	5000.0	4971.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	1429859	500.0	467.0	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	83	612177	1000.0	946.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	88	9385838	5000.0	4897.2	
48 Chloroform	83	4.549	4.549	0.000	99	4430844	500.0	468.0	
49 Cyclohexane	84	4.688	4.688	0.000	90	4618908	500.0	522.8	
50 1,1,1-Trichloroethane	97	4.705	4.697	0.008	99	3942526	500.0	467.3	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	107167	50.0	46.6	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	3319730	500.0	484.5	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	3656797	500.0	489.6	
54 Isobutyl alcohol	43	4.968	4.992	-0.024	93	4113074	12500	13648	
55 Benzene	78	5.042	5.033	0.009	98	10481196	500.0	433.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	137011	50.0	55.8	M
57 Isopropyl acetate	43	5.083	5.083	0.000	96	7060860	500.0	522.2	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	92	9059390	500.0	503.0	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	94	3106032	500.0	455.3	
60 n-Heptane	57	5.181	5.181	0.000	90	2200144	500.0	531.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	461281	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	1375300	12500	12492	
63 Trichloroethene	95	5.674	5.674	0.000	99	2697116	500.0	474.4	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	6886192	500.0	557.8	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	5356346	500.0	534.5	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	2911396	500.0	494.3	
* 67 1,4-Dioxane-d8	96	6.093	6.019	0.074	0	30893	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	1294397	1000.0	1064.7	
69 1,4-Dioxane	88	6.077	6.085	-0.008	59	350276	10000	5940.2	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	3100296	500.0	567.0	
71 Dibromomethane	93	6.093	6.093	0.000	98	1590260	500.0	474.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	3528767	500.0	492.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	1004773	1000.0	983.5	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	1542778	500.0	599.3	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	4369507	10000	9891.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	4389929	500.0	500.3	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	93	10225528	2500.0	2266.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	462865	50.0	48.5	
79 Toluene	91	7.055	7.055	0.000	96	10589556	500.0	433.5	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	3702694	500.0	506.0	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	91	3351463	500.0	559.4	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	1972178	500.0	484.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	2773903	500.0	464.7	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	3834334	500.0	498.2	
85 2-Hexanone	43	7.885	7.893	-0.008	93	6479984	2500.0	2360.9	
86 n-Butyl acetate	43	8.000	8.008	-0.008	97	3587927	500.0	507.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	2528593	500.0	479.6	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	2180576	500.0	491.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	346290	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	7124946	500.0	463.3	
91 Ethylbenzene	106	8.903	8.895	0.008	98	4228207	500.0	476.0	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	2693250	500.0	461.9	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	5166108	500.0	488.2	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	2237636	500.0	547.3	
95 o-Xylene	106	9.503	9.503	0.000	97	5253468	500.0	480.0	
96 Styrene	104	9.536	9.536	0.000	92	8069972	500.0	474.5	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	4681947	500.0	553.7	
98 Bromoform	173	9.742	9.742	0.000	96	1611171	500.0	476.7	
99 Isopropylbenzene	105	9.848	9.849	-0.001	97	10861682	500.0	413.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	133441	50.0	47.7	
101 Bromobenzene	156	10.144	10.144	0.000	98	3103431	500.0	475.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	3010711	500.0	489.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	96	11612551	500.0	388.2	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	96	816999	500.0	470.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	90	755508	500.0	532.6	
106 2-Chlorotoluene	91	10.300	10.292	0.008	95	9240017	500.0	438.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	81	10708126	500.0	434.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	96	9326055	500.0	429.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	8235664	500.0	441.7	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	4294317	500.0	488.2	
111 tert-Butylbenzene	119	10.588	10.588	0.000	88	8175185	500.0	466.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	94	9287375	500.0	420.0	
113 sec-Butylbenzene	105	10.744	10.744	0.000	91	10654597	500.0	394.6	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	90	9632021	500.0	422.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	92	5898093	500.0	461.0	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	92	188821	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	90	5867301	500.0	444.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	92	9624666	500.0	409.6	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	5889342	500.0	501.5	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	9159299	500.0	387.7	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	6378237	500.0	454.1	
121 n-Butylbenzene	92	11.114	11.114	0.000	94	6134003	500.0	471.4	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	91	5574171	500.0	435.0	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	93	8853963	500.0	403.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	97	553314	500.0	488.3	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	4475172	500.0	448.0	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	4218831	500.0	474.9	
127 Hexachlorobutadiene	225	12.207	12.199	0.008	95	1941946	500.0	461.0	
128 Naphthalene	128	12.314	12.314	0.000	96	8593464	500.0	457.1	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	3769448	500.0	442.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	941.5	
S 131 Xylenes, Total	100				0		1000.0	968.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	40.00	Units: uL	
GAS Hi_00262	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
Ethanol mix_00017	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	50.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6 Operator ID:

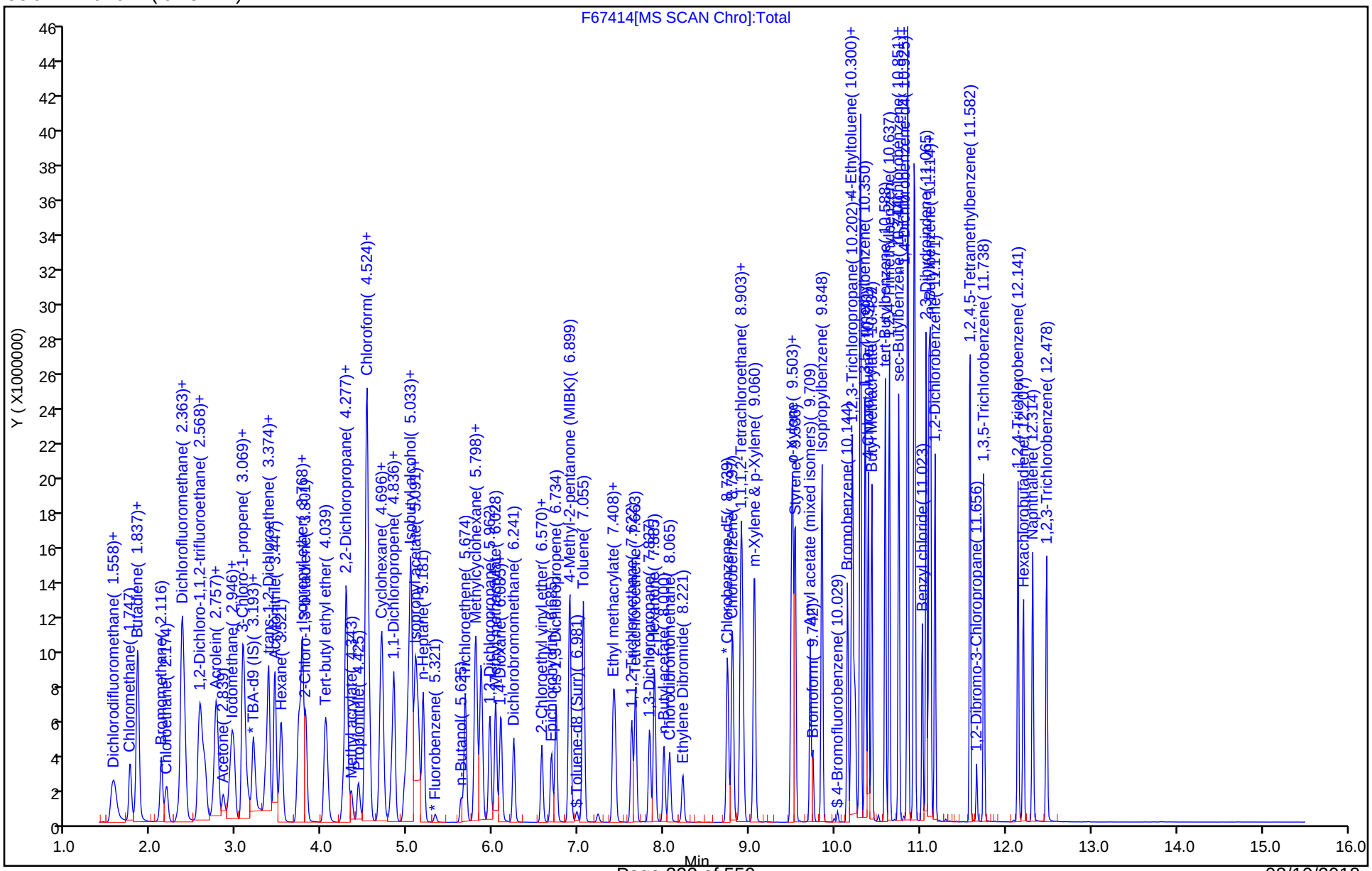
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

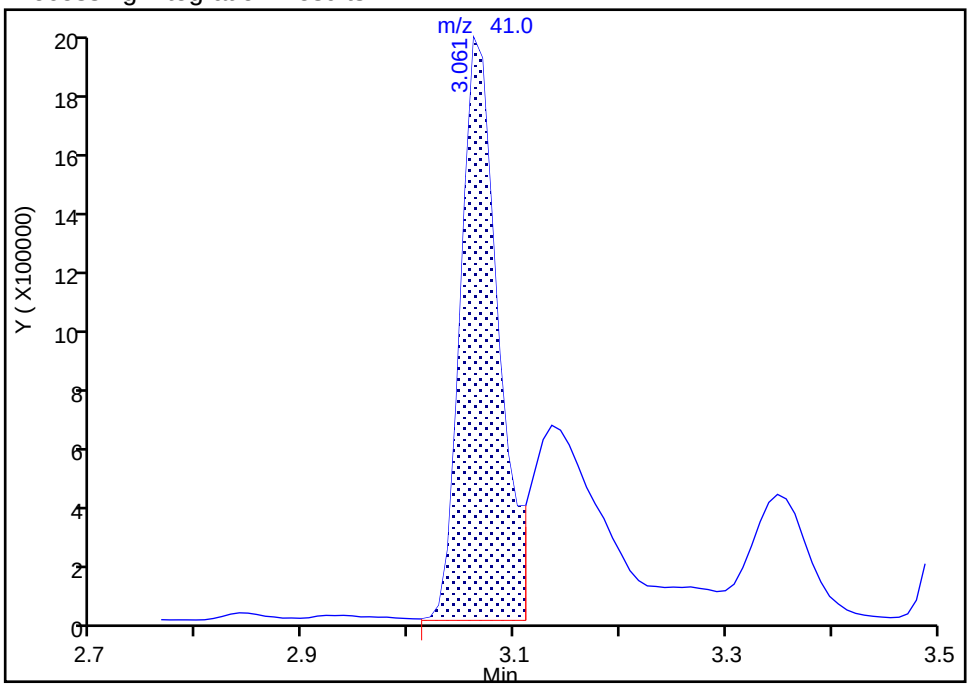
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

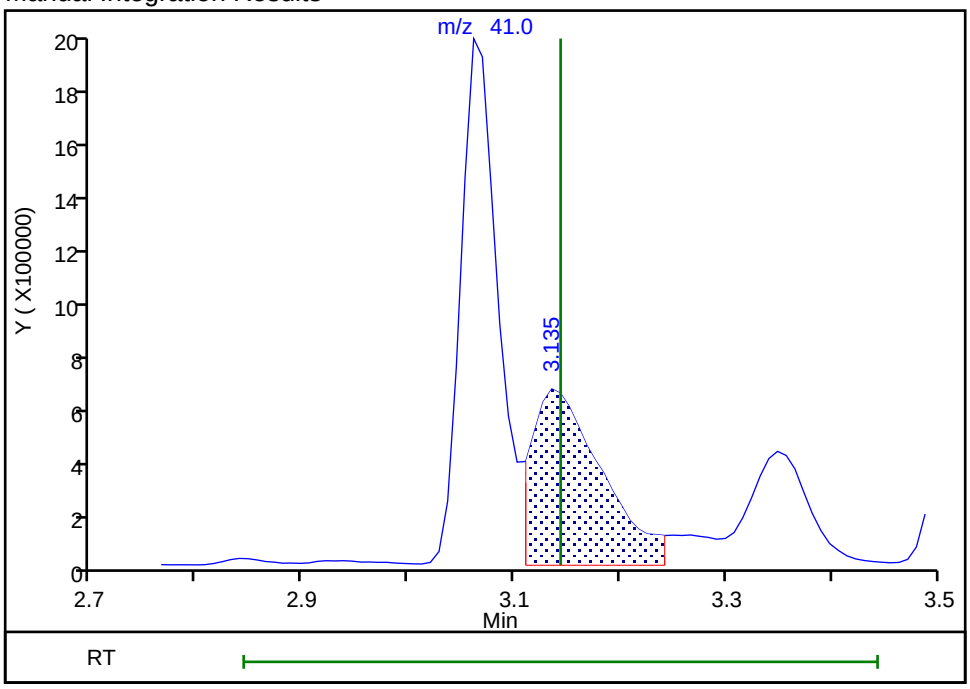
Processing Integration Results

RT: 3.06
Area: 4996979
Amount: 5004.7837
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 3119121
Amount: 5081.3882
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:00:21
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

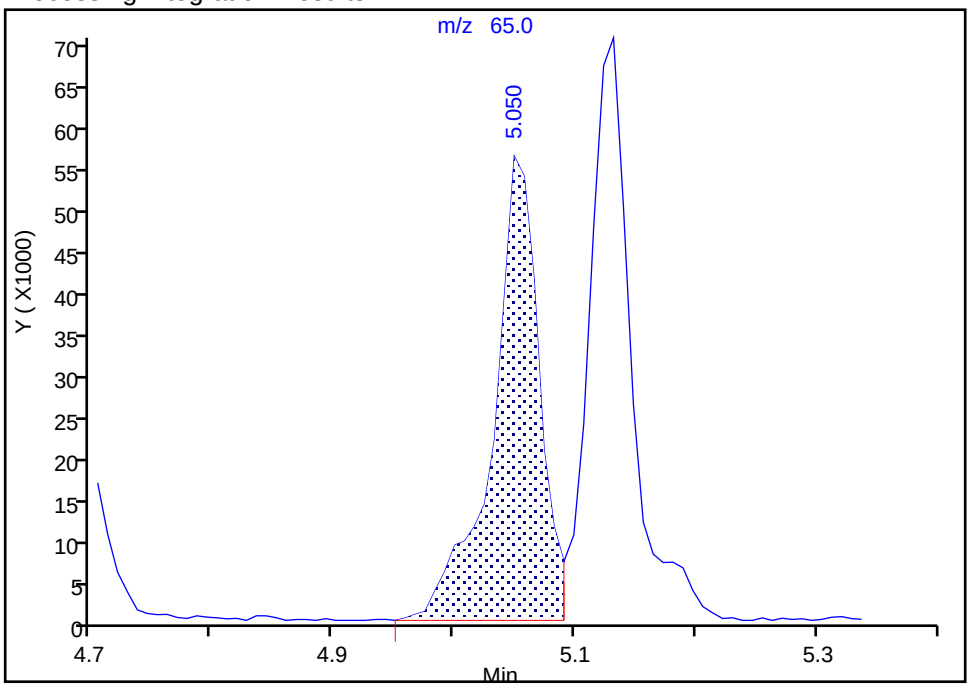
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

$ 56 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

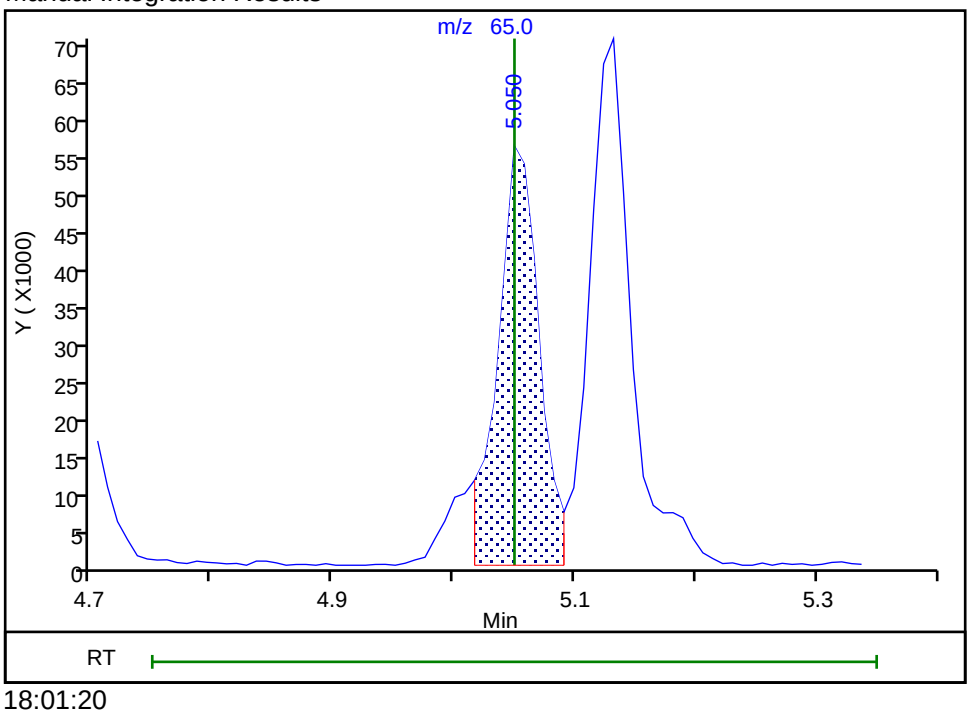
Processing Integration Results

RT: 5.05
Area: 151985
Amount: 60.834141
Amount Units: ug/l



Manual Integration Results

RT: 5.05
Area: 137011
Amount: 55.796062
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:20
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

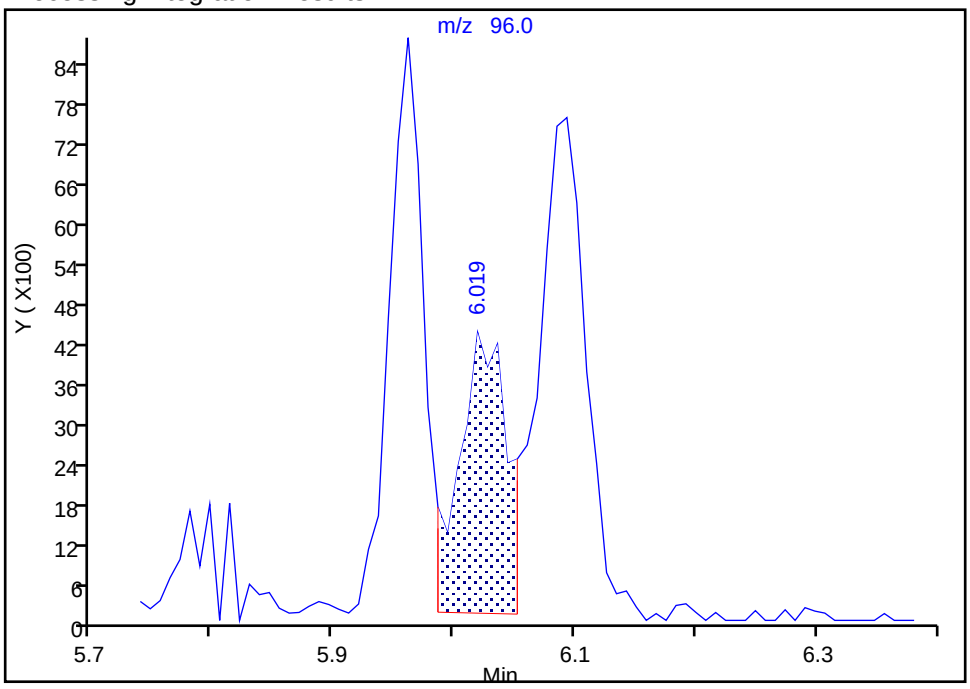
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

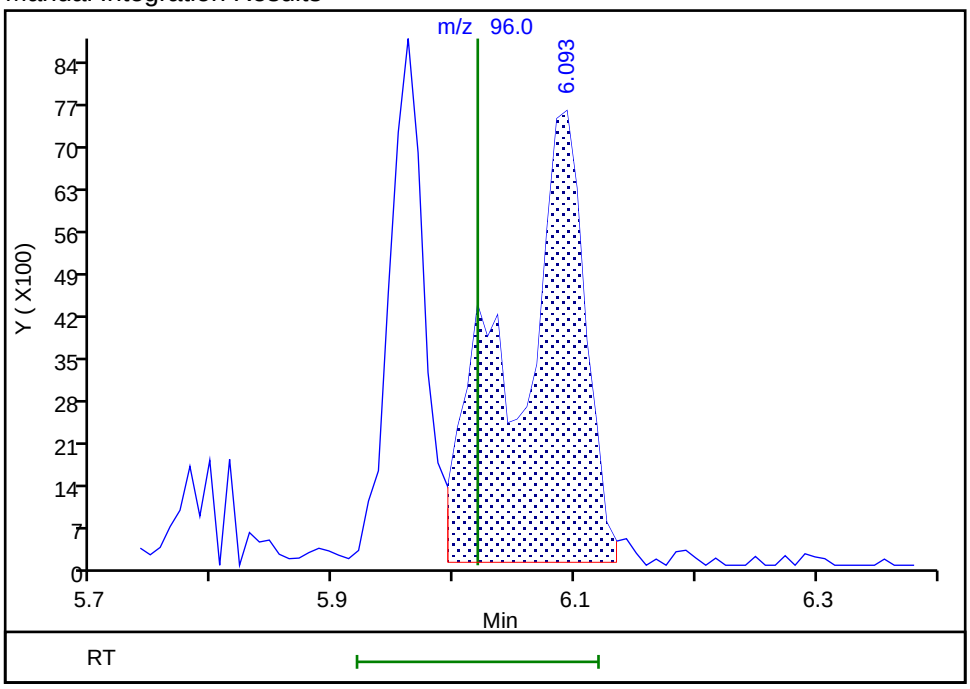
Processing Integration Results

RT: 6.02
Area: 11978
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 30893
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427705/3 Calibration Date: 08/02/2018 09:46

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4181.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.579	1.289	0.1000	40.8	50.0	-18.3	50.0
Chloromethane	Ave	1.288	1.141	0.1000	44.3	50.0	-11.4	20.0
Vinyl chloride	Ave	1.261	1.158	0.1000	45.9	50.0	-8.2	20.0
Butadiene	Ave	1.402	0.9926		35.4	50.0	-29.2*	20.0
Bromomethane	Ave	0.7119	0.6831	0.1000	48.0	50.0	-4.0	50.0
Chloroethane	Ave	0.5704	0.5845	0.1000	51.2	50.0	2.5	50.0
Dichlorofluoromethane	Ave	1.536	1.624		52.8	50.0	5.7	20.0
Trichlorofluoromethane	Ave	1.663	1.669	0.1000	50.2	50.0	0.4	20.0
Ethyl ether	Ave	0.9647	0.8960		46.4	50.0	-7.1	20.0
Acrolein	Ave	0.2544	0.2273		223	250	-10.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.299	1.244	0.1000	47.9	50.0	-4.2	20.0
1,1-Dichloroethene	Ave	1.290	1.288	0.1000	49.9	50.0	-0.1	20.0
Acetone	Ave	0.5248	0.4173	0.1000	199	250	-20.5	50.0
Iodomethane	Ave	2.312	2.068		44.7	50.0	-10.6	20.0
Carbon disulfide	Ave	4.170	4.003	0.1000	48.0	50.0	-4.0	20.0
Allyl chloride	Ave	2.064	2.132		51.7	50.0	3.3	20.0
Methyl acetate	Ave	0.9793	1.071	0.1000	109	100	9.3	50.0
Methylene Chloride	Lin1		1.524	0.1000	50.1	50.0	0.2	20.0
2-Methyl-2-propanol	Ave	0.1531	0.1280		418	500	-16.4	50.0
Methyl tert-butyl ether	Ave	4.500	3.841	0.1000	42.7	50.0	-14.6	20.0
trans-1,2-Dichloroethene	Ave	1.485	1.529	0.1000	51.5	50.0	3.0	20.0
Acrylonitrile	Ave	0.4921	0.5049		513	500	2.6	20.0
Hexane	Ave	2.341	2.452		52.4	50.0	4.8	20.0
Vinyl acetate	Ave	2.745	2.556		93.1	100	-6.9	20.0
1,1-Dichloroethane	Ave	2.540	2.700	0.2000	53.1	50.0	6.3	20.0
2,2-Dichloropropane	Ave	2.189	1.951		44.6	50.0	-10.9	20.0
2-Butanone (MEK)	Ave	0.6830	0.6454	0.1000	236	250	-5.5	20.0
cis-1,2-Dichloroethene	Ave	1.633	1.671	0.1000	51.2	50.0	2.3	20.0
Chlorobromomethane	Ave	0.7735	0.7518		48.6	50.0	-2.8	20.0
Tetrahydrofuran	Ave	0.4173	0.4003		95.9	100	-4.1	20.0
Chloroform	Ave	2.658	2.633	0.2000	49.5	50.0	-1.0	20.0
1,1,1-Trichloroethane	Ave	2.255	2.063	0.1000	45.7	50.0	-8.5	20.0
Cyclohexane	Ave	2.278	2.341	0.1000	51.4	50.0	2.8	20.0
1,1-Dichloropropene	Ave	2.098	2.160		51.5	50.0	3.0	20.0
Carbon tetrachloride	Ave	1.897	1.789	0.1000	47.1	50.0	-5.7	20.0
Isobutyl alcohol	Ave	0.0639	0.0592		1160	1250	-7.4	50.0
Benzene	Ave	5.759	6.144	0.5000	53.3	50.0	6.7	20.0
1,2-Dichloroethane	Ave	2.197	2.038	0.1000	46.4	50.0	-7.2	20.0
n-Heptane	Ave	2.259	2.414		53.4	50.0	6.8	20.0
Trichloroethene	Ave	1.536	1.539	0.2000	50.1	50.0	0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427705/3 Calibration Date: 08/02/2018 09:46

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4181.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.708	2.737	0.1000	50.5	50.0	1.1	20.0
1,2-Dichloropropane	Ave	1.346	1.475	0.1000	54.8	50.0	9.6	20.0
1,4-Dioxane	Ave	0.0074	0.0067		895	1000	-10.5	50.0
Dibromomethane	Ave	0.9168	0.8738	0.1000	47.7	50.0	-4.7	20.0
Bromodichloromethane	Ave	1.872	1.875	0.2000	50.1	50.0	0.2	20.0
2-Chloroethyl vinyl ether	Ave	0.8265	0.7933		48.0	50.0	-4.0	20.0
cis-1,3-Dichloropropene	Ave	2.281	2.310	0.2000	50.6	50.0	1.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6349	0.6183	0.1000	243	250	-2.6	20.0
Toluene	Ave	1.791	1.883	0.4000	52.5	50.0	5.1	20.0
trans-1,3-Dichloropropene	Ave	1.049	1.063	0.1000	50.7	50.0	1.3	20.0
Ethyl methacrylate	Ave	0.9068	0.8854		48.8	50.0	-2.4	20.0
1,1,2-Trichloroethane	Ave	0.5094	0.5309	0.1000	52.1	50.0	4.2	20.0
Tetrachloroethene	Ave	0.8056	0.8268	0.2000	51.3	50.0	2.6	20.0
1,3-Dichloropropane	Ave	1.079	1.148		53.2	50.0	6.4	20.0
2-Hexanone	Ave	0.4957	0.4721	0.1000	238	250	-4.8	20.0
Dibromochloromethane	Ave	0.6349	0.6522	0.1000	51.4	50.0	2.7	20.0
1,2-Dibromoethane	Ave	0.6490	0.6393		49.2	50.0	-1.5	20.0
Chlorobenzene	Ave	1.939	2.025	0.5000	52.2	50.0	4.5	20.0
Ethylbenzene	Ave	3.228	3.428	0.1000	53.1	50.0	6.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6266	0.6395		51.0	50.0	2.1	20.0
m,p-Xylene	Ave	1.355	1.405	0.1000	51.8	50.0	3.7	20.0
o-Xylene	Ave	1.268	1.285	0.3000	50.7	50.0	1.3	20.0
Styrene	Ave	2.213	2.282	0.3000	51.6	50.0	3.1	20.0
Bromoform	Ave	0.4126	0.4052	0.1000	49.1	50.0	-1.8	50.0
Isopropylbenzene	Ave	3.261	3.485	0.1000	53.4	50.0	6.9	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8208	0.8507	0.3000	51.8	50.0	3.6	20.0
Bromobenzene	Ave	0.8992	0.9346		52.0	50.0	3.9	20.0
N-Propylbenzene	Ave	3.803	4.253		55.9	50.0	11.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2698	0.2598		48.2	50.0	-3.7	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2703		48.0	50.0	-4.0	20.0
2-Chlorotoluene	Ave	0.8115	0.8573		52.8	50.0	5.6	20.0
1,3,5-Trimethylbenzene	Ave	2.811	2.986		53.1	50.0	6.2	20.0
4-Chlorotoluene	Ave	0.8777	0.9394		53.5	50.0	7.0	20.0
tert-Butylbenzene	Ave	0.6427	0.6601		51.3	50.0	2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.885	3.070		53.2	50.0	6.4	20.0
sec-Butylbenzene	Ave	3.533	3.777		53.5	50.0	6.9	20.0
4-Isopropyltoluene	Ave	3.018	3.208		53.2	50.0	6.3	20.0
1,3-Dichlorobenzene	Ave	1.677	1.769	0.6000	52.8	50.0	5.5	20.0
1,4-Dichlorobenzene	Ave	1.720	1.786	0.5000	51.9	50.0	3.8	20.0
n-Butylbenzene	Ave	2.719	2.952		54.3	50.0	8.6	20.0
1,2-Dichlorobenzene	Ave	1.545	1.562	0.4000	50.5	50.0	1.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427705/3 Calibration Date: 08/02/2018 09:46

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4181.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1581	0.1276	0.0500	40.3	50.0	-19.3	50.0
1,2,4-Trichlorobenzene	Ave	1.031	0.9726	0.2000	47.2	50.0	-5.7	20.0
Hexachlorobutadiene	Ave	0.6209	0.5890		47.4	50.0	-5.1	20.0
Naphthalene	Ave	2.405	2.111		43.9	50.0	-12.2	20.0
1,2,3-Trichlorobenzene	Ave	0.9504	0.8760		46.1	50.0	-7.8	20.0
Dibromofluoromethane (Surr)	Ave	1.227	1.182		48.2	50.0	-3.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7941	0.7663		48.3	50.0	-3.5	20.0
Toluene-d8 (Surr)	Ave	2.306	2.337		50.7	50.0	1.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7793	0.7485		48.0	50.0	-4.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4181.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Aug-2018 09:46:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0073600-003
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 17:24:54 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: cwiklinc Date: 02-Aug-2018 09:52:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	294045	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	90	594649	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	555960	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	93	347670	50.0	48.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	97	225327	50.0	48.3	
$ 5 Toluene-d8 (Surr)	98	6.559	6.559	0.000	93	1389734	50.0	50.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	94	445075	50.0	48.0	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	379102	50.0	40.8	
12 Chloromethane	50	1.997	1.997	0.000	99	335461	50.0	44.3	
13 Vinyl chloride	62	2.076	2.076	0.000	98	340603	50.0	45.9	
151 Butadiene	54	2.100	2.100	0.000	89	291874	50.0	35.4	M
14 Bromomethane	94	2.368	2.368	0.000	90	200864	50.0	48.0	
15 Chloroethane	64	2.429	2.429	0.000	100	171864	50.0	51.2	
16 Dichlorofluoromethane	67	2.581	2.581	0.000	97	477404	50.0	52.8	
17 Trichlorofluoromethane	101	2.611	2.611	0.000	98	490767	50.0	50.2	
18 Ethyl ether	59	2.776	2.776	0.000	87	263475	50.0	46.4	
20 Acrolein	56	2.928	2.928	0.000	100	334203	250.0	223.4	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.964	0.000	93	365879	50.0	47.9	
22 1,1-Dichloroethene	96	2.982	2.982	0.000	98	378868	50.0	49.9	
23 Acetone	43	3.037	3.037	0.000	100	613484	250.0	198.8	
25 Iodomethane	142	3.134	3.134	0.000	99	607940	50.0	44.7	
26 Carbon disulfide	76	3.189	3.189	0.000	99	1177031	50.0	48.0	
28 3-Chloro-1-propene	41	3.250	3.250	0.000	97	626926	50.0	51.7	
27 Methyl acetate	43	3.250	3.250	0.000	91	629650	100.0	109.3	
30 Methylene Chloride	84	3.360	3.360	0.000	90	448214	50.0	50.1	
31 2-Methyl-2-propanol	59	3.414	3.414	0.000	99	376384	500.0	417.9	
32 Methyl tert-butyl ether	73	3.512	3.512	0.000	95	1129394	50.0	42.7	
34 trans-1,2-Dichloroethene	96	3.542	3.542	0.000	98	449698	50.0	51.5	
33 Acrylonitrile	53	3.554	3.554	0.000	99	1484634	500.0	513.0	
35 Hexane	57	3.676	3.676	0.000	90	720983	50.0	52.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.852	3.852	0.000	97	1503385	100.0	93.1	
39 1,1-Dichloroethane	63	3.864	3.864	0.000	96	793873	50.0	53.1	
44 2,2-Dichloropropane	77	4.296	4.296	0.000	62	573599	50.0	44.6	
43 2-Butanone (MEK)	43	4.296	4.296	0.000	98	948943	250.0	236.2	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	81	491393	50.0	51.2	
48 Chlorobromomethane	128	4.509	4.509	0.000	93	221062	50.0	48.6	
49 Tetrahydrofuran	42	4.528	4.528	0.000	86	235435	100.0	95.9	
50 Chloroform	83	4.546	4.546	0.000	93	774080	50.0	49.5	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	606672	50.0	45.7	
52 Cyclohexane	56	4.716	4.716	0.000	88	688263	50.0	51.4	
54 1,1-Dichloropropene	75	4.801	4.801	0.000	98	635244	50.0	51.5	
55 Carbon tetrachloride	117	4.814	4.814	0.000	97	525947	50.0	47.1	
53 Isobutyl alcohol	43	4.868	4.868	0.000	94	435083	1250.0	1158.0	
57 Benzene	78	4.984	4.984	0.000	96	1806742	50.0	53.3	
58 1,2-Dichloroethane	62	5.020	5.020	0.000	97	599379	50.0	46.4	
59 n-Heptane	43	5.081	5.081	0.000	90	709866	50.0	53.4	
62 Trichloroethene	95	5.501	5.501	0.000	98	452542	50.0	50.1	
64 Methylcyclohexane	83	5.635	5.635	0.000	88	804711	50.0	50.5	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	97	433770	50.0	54.8	
66 1,4-Dioxane	88	5.823	5.823	0.000	92	79146	1000.0	894.6	
67 Dibromomethane	93	5.848	5.848	0.000	95	256941	50.0	47.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	100	551323	50.0	50.1	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	233264	50.0	48.0	
72 cis-1,3-Dichloropropene	75	6.334	6.334	0.000	97	679154	50.0	50.6	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.438	0.000	95	1838304	250.0	243.4	
74 Toluene	92	6.620	6.620	0.000	99	1119478	50.0	52.5	
77 trans-1,3-Dichloropropene	75	6.845	6.845	0.000	97	632237	50.0	50.7	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	526507	50.0	48.8	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	315710	50.0	52.1	
81 Tetrachloroethene	166	7.144	7.144	0.000	98	491673	50.0	51.3	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	98	682466	50.0	53.2	
80 2-Hexanone	43	7.223	7.223	0.000	94	1403797	250.0	238.1	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	387832	50.0	51.4	
84 Ethylene Dibromide	107	7.569	7.569	0.000	99	380140	50.0	49.2	
87 Chlorobenzene	112	8.020	8.020	0.000	96	1204343	50.0	52.2	
88 Ethylbenzene	91	8.086	8.086	0.000	98	2038491	50.0	53.1	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	380265	50.0	51.0	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	835502	50.0	51.8	
91 o-Xylene	106	8.634	8.634	0.000	96	764193	50.0	50.7	
92 Styrene	104	8.652	8.652	0.000	94	1356864	50.0	51.6	
95 Bromoform	173	8.926	8.926	0.000	97	240965	50.0	49.1	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1937403	50.0	53.4	
101 Bromobenzene	156	9.388	9.388	0.000	92	519596	50.0	52.0	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	75	472953	50.0	51.8	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.437	0.000	60	144461	50.0	48.2	
99 N-Propylbenzene	91	9.437	9.437	0.000	99	2364230	50.0	55.9	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	81	150253	50.0	48.0	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	476599	50.0	52.8	
102 1,3,5-Trimethylbenzene	105	9.607	9.607	0.000	94	1660252	50.0	53.1	
105 4-Chlorotoluene	126	9.674	9.674	0.000	97	522292	50.0	53.5	
106 tert-Butylbenzene	134	9.930	9.930	0.000	93	366969	50.0	51.3	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	1706666	50.0	53.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.143	0.000	94	2099786	50.0	53.5	
110 4-Isopropyltoluene	119	10.270	10.270	0.000	96	1783565	50.0	53.2	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	97	983474	50.0	52.8	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	992878	50.0	51.9	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1641234	50.0	54.3	
116 1,2-Dichlorobenzene	146	10.733	10.733	0.000	97	868231	50.0	50.5	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	87	70928	50.0	40.3	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	540720	50.0	47.2	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	327438	50.0	47.4	
121 Naphthalene	128	12.266	12.266	0.000	97	1173417	50.0	43.9	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	96	487042	50.0	46.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00130	Amount Added: 25.00	Units: uL	
GAS CORP mix_00293	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00051	Amount Added: 1.00	Units: uL	Run Reagent

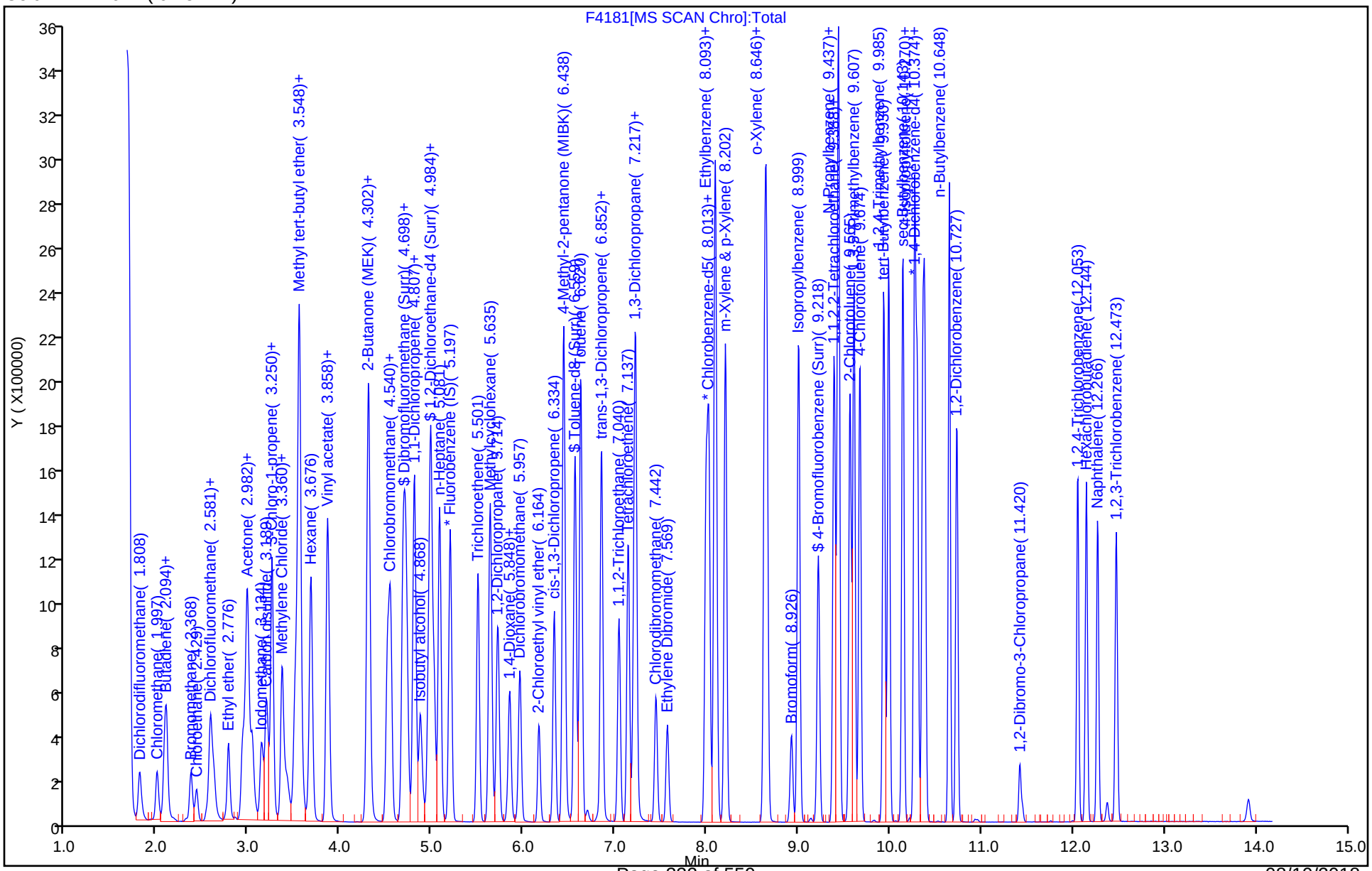
Report Date: 02-Aug-2018 17:24:59 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4181.D

Injection Date:	02-Aug-2018 09:46:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

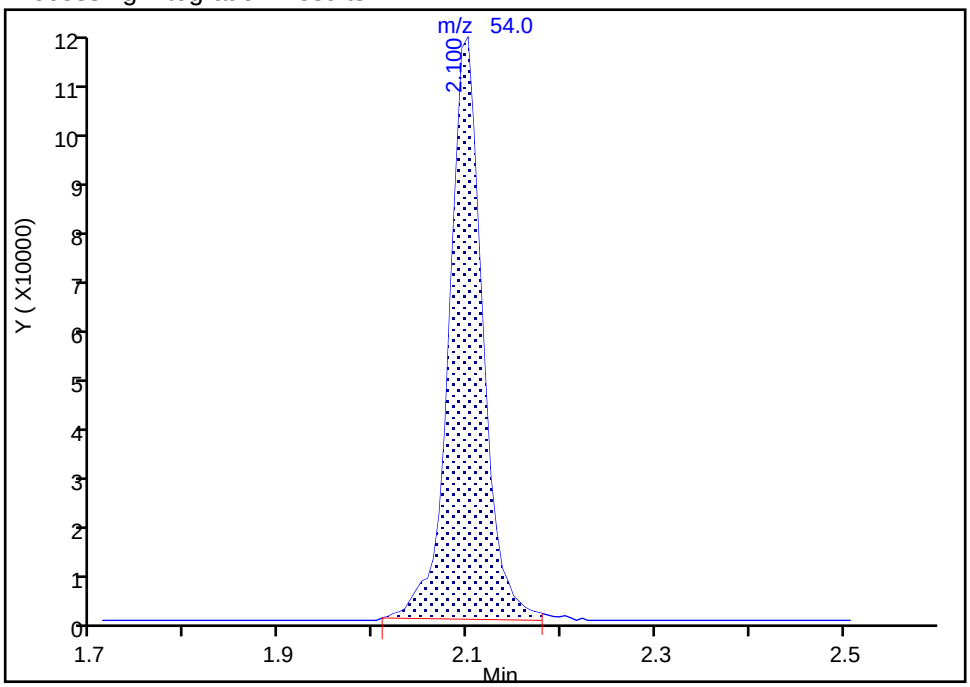
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4181.D
Injection Date: 02-Aug-2018 09:46:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

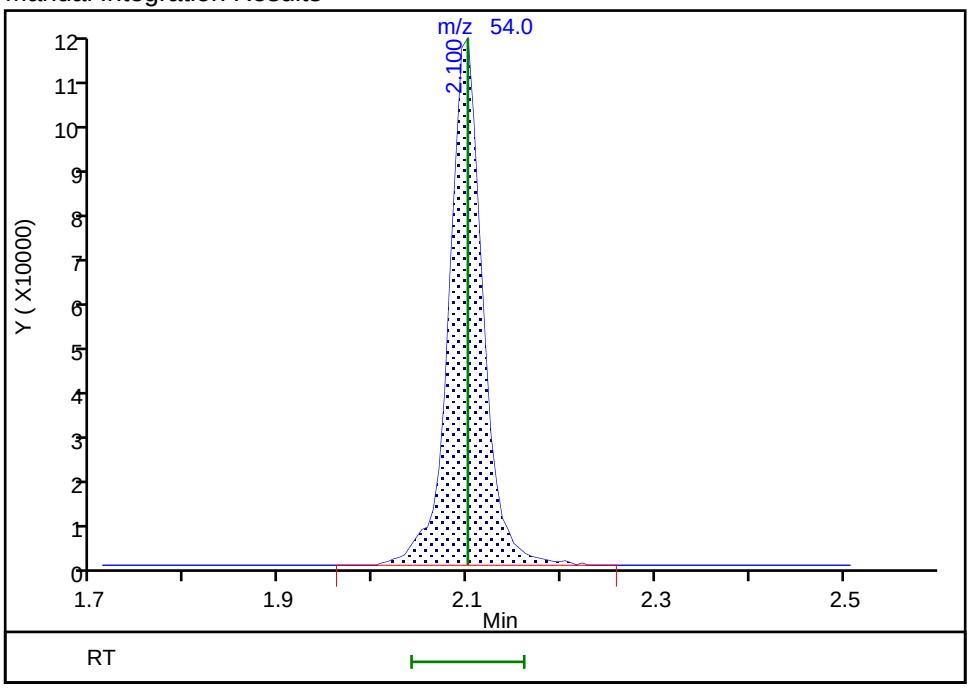
Processing Integration Results

RT: 2.10
Area: 287736
Amount: 34.900181
Amount Units: ug/kg



Manual Integration Results

RT: 2.10
Area: 291874
Amount: 35.402089
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 17:23:59
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427843/3 Calibration Date: 08/02/2018 22:00

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4208.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.579	0.9548	0.1000	30.2	50.0	-39.5	50.0
Chloromethane	Ave	1.288	1.023	0.1000	39.7	50.0	-20.5*	20.0
Vinyl chloride	Ave	1.261	1.021	0.1000	40.4	50.0	-19.1	20.0
Butadiene	Ave	1.402	0.8313		29.6	50.0	-40.7*	20.0
Bromomethane	Ave	0.7119	0.6025	0.1000	42.3	50.0	-15.4	50.0
Chloroethane	Ave	0.5704	0.4860	0.1000	42.6	50.0	-14.8	50.0
Dichlorofluoromethane	Ave	1.536	1.407		45.8	50.0	-8.4	20.0
Trichlorofluoromethane	Ave	1.663	1.305	0.1000	39.2	50.0	-21.5*	20.0
Ethyl ether	Ave	0.9647	0.8324		43.1	50.0	-13.7	20.0
Acrolein	Ave	0.2544	0.2171		213	250	-14.7	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.299	1.008	0.1000	38.8	50.0	-22.4*	20.0
1,1-Dichloroethene	Ave	1.290	1.149	0.1000	44.5	50.0	-11.0	20.0
Acetone	Ave	0.5248	0.4094	0.1000	195	250	-22.0	50.0
Iodomethane	Ave	2.312	2.023		43.8	50.0	-12.5	20.0
Carbon disulfide	Ave	4.170	3.480	0.1000	41.7	50.0	-16.5	20.0
Allyl chloride	Ave	2.064	2.036		49.3	50.0	-1.3	20.0
Methyl acetate	Ave	0.9793	1.063	0.1000	109	100	8.5	50.0
Methylene Chloride	Lin1		1.483	0.1000	48.6	50.0	-2.9	20.0
2-Methyl-2-propanol	Ave	0.1531	0.1389		454	500	-9.3	50.0
Methyl tert-butyl ether	Ave	4.500	3.926	0.1000	43.6	50.0	-12.7	20.0
trans-1,2-Dichloroethene	Ave	1.485	1.459	0.1000	49.1	50.0	-1.8	20.0
Acrylonitrile	Ave	0.4921	0.4859		494	500	-1.3	20.0
Hexane	Ave	2.341	1.970		42.1	50.0	-15.8	20.0
Vinyl acetate	Ave	2.745	2.538		92.5	100	-7.5	20.0
1,1-Dichloroethane	Ave	2.540	2.600	0.2000	51.2	50.0	2.4	20.0
2,2-Dichloropropane	Ave	2.189	1.883		43.0	50.0	-14.0	20.0
2-Butanone (MEK)	Ave	0.6830	0.6589	0.1000	241	250	-3.5	20.0
cis-1,2-Dichloroethene	Ave	1.633	1.636	0.1000	50.1	50.0	0.2	20.0
Chlorobromomethane	Ave	0.7735	0.7471		48.3	50.0	-3.4	20.0
Tetrahydrofuran	Ave	0.4173	0.4208		101	100	0.9	20.0
Chloroform	Ave	2.658	2.559	0.2000	48.1	50.0	-3.8	20.0
1,1,1-Trichloroethane	Ave	2.255	1.949	0.1000	43.2	50.0	-13.6	20.0
Cyclohexane	Ave	2.278	1.969	0.1000	43.2	50.0	-13.6	20.0
1,1-Dichloropropene	Ave	2.098	2.022		48.2	50.0	-3.6	20.0
Carbon tetrachloride	Ave	1.897	1.619	0.1000	42.7	50.0	-14.7	20.0
Isobutyl alcohol	Ave	0.0639	0.0631		1230	1250	-1.3	50.0
Benzene	Ave	5.759	5.998	0.5000	52.1	50.0	4.2	20.0
1,2-Dichloroethane	Ave	2.197	1.989	0.1000	45.3	50.0	-9.5	20.0
n-Heptane	Ave	2.259	1.997		44.2	50.0	-11.6	20.0
Trichloroethene	Ave	1.536	1.522	0.2000	49.5	50.0	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427843/3 Calibration Date: 08/02/2018 22:00

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4208.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.708	2.326	0.1000	43.0	50.0	-14.1	20.0
1,2-Dichloropropane	Ave	1.346	1.459	0.1000	54.2	50.0	8.4	20.0
1,4-Dioxane	Ave	0.0074	0.0073		981	1000	-1.9	50.0
Dibromomethane	Ave	0.9168	0.8718	0.1000	47.5	50.0	-4.9	20.0
Bromodichloromethane	Ave	1.872	1.861	0.2000	49.7	50.0	-0.6	20.0
2-Chloroethyl vinyl ether	Ave	0.8265	0.8595		52.0	50.0	4.0	20.0
cis-1,3-Dichloropropene	Ave	2.281	2.336	0.2000	51.2	50.0	2.4	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.6349	0.6375	0.1000	251	250	0.4	20.0
Toluene	Ave	1.791	1.884	0.4000	52.6	50.0	5.2	20.0
trans-1,3-Dichloropropene	Ave	1.049	1.084	0.1000	51.7	50.0	3.3	20.0
Ethyl methacrylate	Ave	0.9068	0.9313		51.4	50.0	2.7	20.0
1,1,2-Trichloroethane	Ave	0.5094	0.5324	0.1000	52.3	50.0	4.5	20.0
Tetrachloroethene	Ave	0.8056	0.7980	0.2000	49.5	50.0	-0.9	20.0
1,3-Dichloropropane	Ave	1.079	1.146		53.1	50.0	6.2	20.0
2-Hexanone	Ave	0.4957	0.4944	0.1000	249	250	-0.3	20.0
Dibromochloromethane	Ave	0.6349	0.6620	0.1000	52.1	50.0	4.3	20.0
1,2-Dibromoethane	Ave	0.6490	0.6568		50.6	50.0	1.2	20.0
Chlorobenzene	Ave	1.939	2.030	0.5000	52.4	50.0	4.7	20.0
Ethylbenzene	Ave	3.228	3.397	0.1000	52.6	50.0	5.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6266	0.6413		51.2	50.0	2.4	20.0
m,p-Xylene	Ave	1.355	1.411	0.1000	52.1	50.0	4.1	20.0
o-Xylene	Ave	1.268	1.300	0.3000	51.3	50.0	2.5	20.0
Styrene	Ave	2.213	2.303	0.3000	52.0	50.0	4.1	20.0
Bromoform	Ave	0.4126	0.4162	0.1000	50.4	50.0	0.9	50.0
Isopropylbenzene	Ave	3.261	3.437	0.1000	52.7	50.0	5.4	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8208	0.8504	0.3000	51.8	50.0	3.6	20.0
Bromobenzene	Ave	0.8992	0.9535		53.0	50.0	6.0	20.0
N-Propylbenzene	Ave	3.803	4.137		54.4	50.0	8.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2698	0.2586		47.9	50.0	-4.1	50.0
1,2,3-Trichloropropane	Ave	0.2816	0.2722		48.3	50.0	-3.3	20.0
2-Chlorotoluene	Ave	0.8115	0.8706		53.6	50.0	7.3	20.0
1,3,5-Trimethylbenzene	Ave	2.811	2.948		52.4	50.0	4.9	20.0
4-Chlorotoluene	Ave	0.8777	0.9365		53.4	50.0	6.7	20.0
tert-Butylbenzene	Ave	0.6427	0.6520		50.7	50.0	1.4	20.0
1,2,4-Trimethylbenzene	Ave	2.885	3.042		52.7	50.0	5.4	20.0
sec-Butylbenzene	Ave	3.533	3.661		51.8	50.0	3.6	20.0
4-Isopropyltoluene	Ave	3.018	3.125		51.8	50.0	3.6	20.0
1,3-Dichlorobenzene	Ave	1.677	1.754	0.6000	52.3	50.0	4.6	20.0
1,4-Dichlorobenzene	Ave	1.720	1.765	0.5000	51.3	50.0	2.6	20.0
n-Butylbenzene	Ave	2.719	2.817		51.8	50.0	3.6	20.0
1,2-Dichlorobenzene	Ave	1.545	1.554	0.4000	50.3	50.0	0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 480-427843/3 Calibration Date: 08/02/2018 22:00

Instrument ID: HP5973F Calib Start Date: 05/08/2018 13:08

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 05/08/2018 15:41

Lab File ID: F4208.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1581	0.1280	0.0500	40.5	50.0	-19.1	50.0
1,2,4-Trichlorobenzene	Ave	1.031	0.9497	0.2000	46.0	50.0	-7.9	20.0
Hexachlorobutadiene	Ave	0.6209	0.5373		43.3	50.0	-13.5	20.0
Naphthalene	Ave	2.405	2.050		42.6	50.0	-14.7	20.0
1,2,3-Trichlorobenzene	Ave	0.9504	0.8398		44.2	50.0	-11.6	20.0
Dibromofluoromethane (Surr)	Ave	1.227	1.161		47.3	50.0	-5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7941	0.7407		46.6	50.0	-6.7	20.0
Toluene-d8 (Surr)	Ave	2.306	2.342		50.8	50.0	1.6	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7793	0.7619		48.9	50.0	-2.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4208.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 02-Aug-2018 22:00:30 ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0073626-003
Operator ID: AEM Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 23:09:10 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: milligana Date: 02-Aug-2018 23:09:10

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	302254	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	609012	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	568739	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	94	350932	50.0	47.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	96	223893	50.0	46.6	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	92	1426580	50.0	50.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	463990	50.0	48.9	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	288599	50.0	30.2	
12 Chloromethane	50	1.997	1.997	0.000	99	309292	50.0	39.7	
13 Vinyl chloride	62	2.076	2.076	0.000	97	308452	50.0	40.4	M
151 Butadiene	54	2.094	2.094	0.000	88	251257	50.0	29.6	M
14 Bromomethane	94	2.368	2.368	0.000	90	182101	50.0	42.3	
15 Chloroethane	64	2.429	2.429	0.000	99	146892	50.0	42.6	
16 Dichlorofluoromethane	67	2.581	2.581	0.000	97	425394	50.0	45.8	
17 Trichlorofluoromethane	101	2.612	2.612	0.000	98	394404	50.0	39.2	
18 Ethyl ether	59	2.776	2.776	0.000	87	251603	50.0	43.1	
20 Acrolein	56	2.928	2.928	0.000	100	328048	250.0	213.3	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.964	0.000	93	304794	50.0	38.8	M
22 1,1-Dichloroethene	96	2.983	2.983	0.000	98	347171	50.0	44.5	
23 Acetone	43	3.037	3.037	0.000	100	618688	250.0	195.0	
25 Iodomethane	142	3.135	3.135	0.000	99	611461	50.0	43.8	
26 Carbon disulfide	76	3.189	3.189	0.000	99	1051988	50.0	41.7	
27 Methyl acetate	43	3.250	3.250	0.000	96	642632	100.0	108.5	
28 3-Chloro-1-propene	41	3.250	3.250	0.000	89	615393	50.0	49.3	
30 Methylene Chloride	84	3.360	3.360	0.000	90	448152	50.0	48.6	
31 2-Methyl-2-propanol	59	3.408	3.408	0.000	99	419938	500.0	453.6	
32 Methyl tert-butyl ether	73	3.512	3.512	0.000	94	1186686	50.0	43.6	
34 trans-1,2-Dichloroethene	96	3.542	3.542	0.000	99	441030	50.0	49.1	
33 Acrylonitrile	53	3.554	3.554	0.000	98	1468716	500.0	493.7	
35 Hexane	57	3.676	3.676	0.000	90	595559	50.0	42.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	3.853	3.853	0.000	97	1534196	100.0	92.5	
39 1,1-Dichloroethane	63	3.865	3.865	0.000	96	785862	50.0	51.2	
44 2,2-Dichloropropane	77	4.297	4.297	0.000	61	569209	50.0	43.0	
43 2-Butanone (MEK)	43	4.297	4.297	0.000	98	995771	250.0	241.2	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	81	494361	50.0	50.1	
48 Chlorobromomethane	128	4.510	4.510	0.000	93	225824	50.0	48.3	
49 Tetrahydrofuran	42	4.528	4.528	0.000	86	254402	100.0	100.9	
50 Chloroform	83	4.546	4.546	0.000	92	773325	50.0	48.1	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	589004	50.0	43.2	
52 Cyclohexane	56	4.716	4.716	0.000	87	595055	50.0	43.2	
54 1,1-Dichloropropene	75	4.802	4.802	0.000	98	611071	50.0	48.2	
55 Carbon tetrachloride	117	4.814	4.814	0.000	97	489293	50.0	42.7	
53 Isobutyl alcohol	43	4.869	4.869	0.000	95	476522	1250.0	1233.8	
57 Benzene	78	4.984	4.984	0.000	96	1812851	50.0	52.1	
58 1,2-Dichloroethane	62	5.021	5.021	0.000	97	601261	50.0	45.3	
59 n-Heptane	43	5.081	5.081	0.000	89	603675	50.0	44.2	
62 Trichloroethene	95	5.501	5.501	0.000	98	460019	50.0	49.5	
64 Methylcyclohexane	83	5.635	5.635	0.000	87	703147	50.0	43.0	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	97	440904	50.0	54.2	
66 1,4-Dioxane	88	5.824	5.824	0.000	90	88894	1000.0	981.1	
67 Dibromomethane	93	5.842	5.842	0.000	95	263515	50.0	47.5	
68 Dichlorobromomethane	83	5.957	5.957	0.000	99	562463	50.0	49.7	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	259799	50.0	52.0	
72 cis-1,3-Dichloropropene	75	6.335	6.335	0.000	97	705986	50.0	51.2	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.432	0.000	94	1941083	250.0	251.0	
74 Toluene	92	6.627	6.627	0.000	99	1147393	50.0	52.6	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.000	97	660409	50.0	51.7	
75 Ethyl methacrylate	69	6.852	6.852	0.000	88	567174	50.0	51.4	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	91	324223	50.0	52.3	
81 Tetrachloroethene	166	7.138	7.138	0.000	98	486002	50.0	49.5	
82 1,3-Dichloropropane	76	7.205	7.205	0.000	97	697749	50.0	53.1	
80 2-Hexanone	43	7.223	7.223	0.000	93	1505352	250.0	249.3	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	403144	50.0	52.1	
84 Ethylene Dibromide	107	7.570	7.570	0.000	98	399969	50.0	50.6	
87 Chlorobenzene	112	8.020	8.020	0.000	95	1236324	50.0	52.4	
88 Ethylbenzene	91	8.087	8.087	0.000	98	2068562	50.0	52.6	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	390547	50.0	51.2	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	859158	50.0	52.1	
91 o-Xylene	106	8.634	8.634	0.000	96	791988	50.0	51.3	
92 Styrene	104	8.653	8.653	0.000	94	1402830	50.0	52.0	
95 Bromoform	173	8.926	8.926	0.000	97	253470	50.0	50.4	
94 Isopropylbenzene	105	9.005	9.005	0.000	96	1954561	50.0	52.7	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.389	0.000	76	483635	50.0	51.8	
101 Bromobenzene	156	9.389	9.389	0.000	91	542289	50.0	53.0	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2352611	50.0	54.4	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.437	0.000	59	147089	50.0	47.9	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	81	154835	50.0	48.3	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	495148	50.0	53.6	
102 1,3,5-Trimethylbenzene	105	9.608	9.608	0.000	94	1676543	50.0	52.4	
105 4-Chlorotoluene	126	9.675	9.675	0.000	97	532610	50.0	53.4	
106 tert-Butylbenzene	134	9.930	9.930	0.000	92	370833	50.0	50.7	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	97	1730062	50.0	52.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.143	10.143	0.000	94	2082289	50.0	51.8	
110 4-Isopropyltoluene	119	10.271	10.271	0.000	96	1777199	50.0	51.8	
111 1,3-Dichlorobenzene	146	10.301	10.301	0.000	97	997391	50.0	52.3	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	94	1003765	50.0	51.3	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1602033	50.0	51.8	
116 1,2-Dichlorobenzene	146	10.727	10.727	0.000	98	883804	50.0	50.3	
117 1,2-Dibromo-3-Chloropropan	75	11.421	11.421	0.000	89	72776	50.0	40.5	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	540115	50.0	46.0	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	305559	50.0	43.3	
121 Naphthalene	128	12.266	12.266	0.000	97	1165938	50.0	42.6	
122 1,2,3-Trichlorobenzene	180	12.473	12.473	0.000	96	477651	50.0	44.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00130	Amount Added: 25.00	Units: uL	
GAS CORP mix_00293	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00051	Amount Added: 1.00	Units: uL	Run Reagent

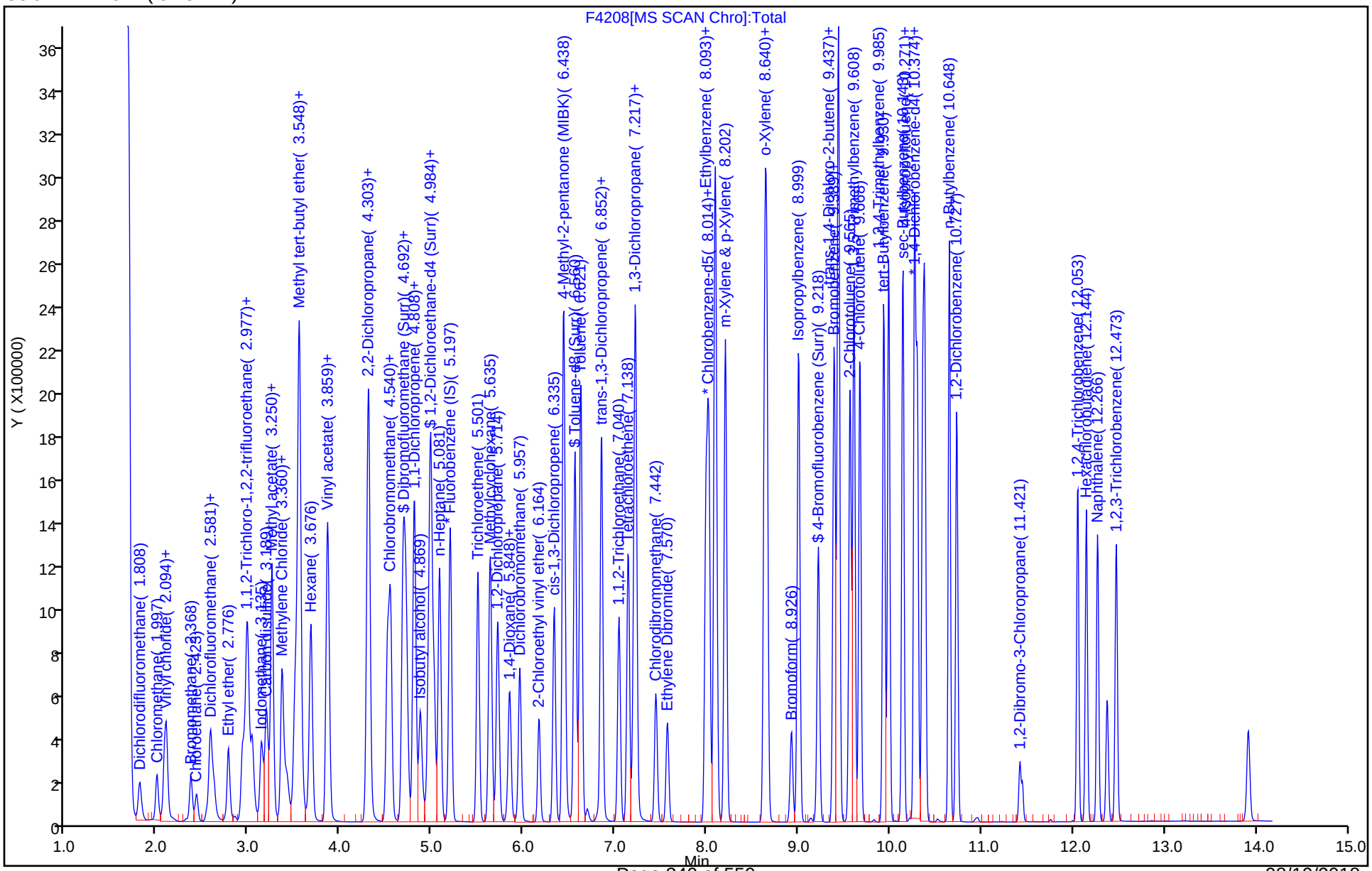
Report Date: 02-Aug-2018 23:09:15 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4208.D

Injection Date:	02-Aug-2018 22:00:30	Instrument ID:	HP5973F	Operator ID:	AEM
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

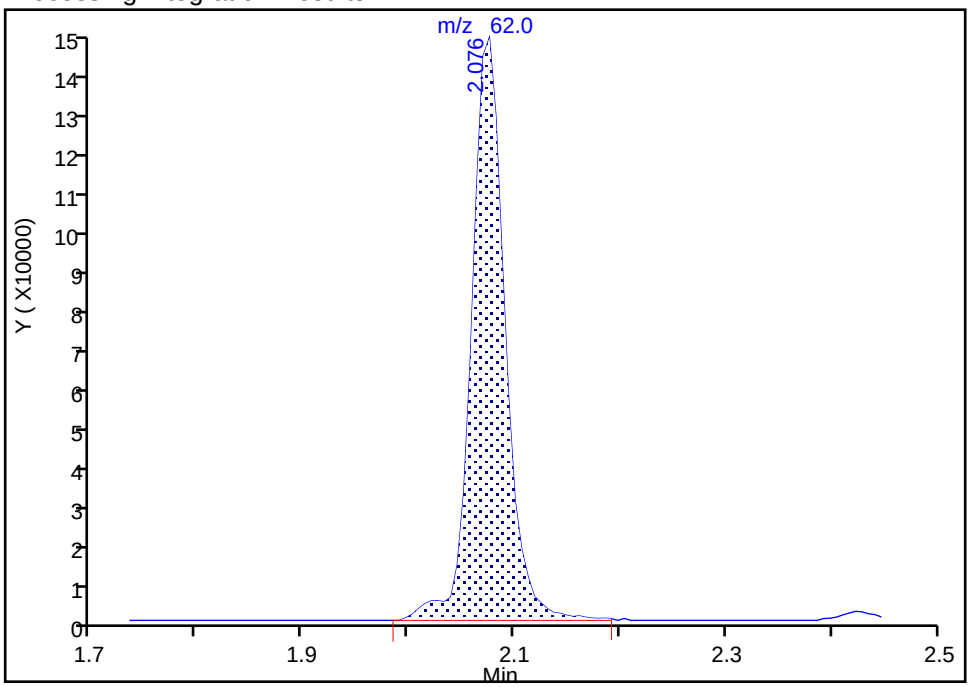
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4208.D
Injection Date: 02-Aug-2018 22:00:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AEM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

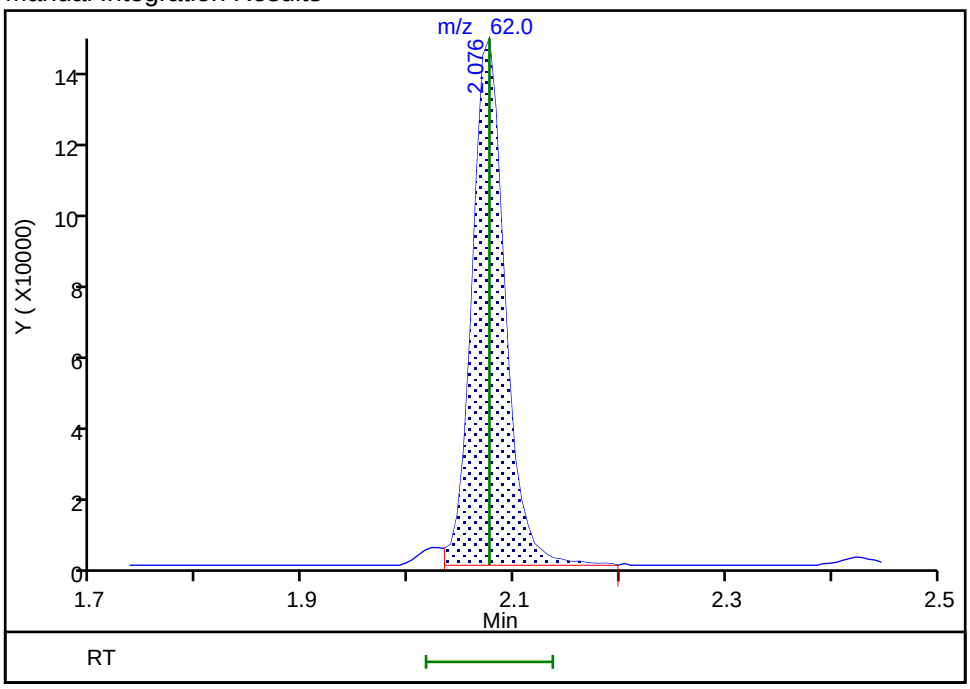
Processing Integration Results

RT: 2.08
Area: 315229
Amount: 41.337692
Amount Units: ug/kg



Manual Integration Results

RT: 2.08
Area: 308452
Amount: 40.448987
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 22:07:55
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

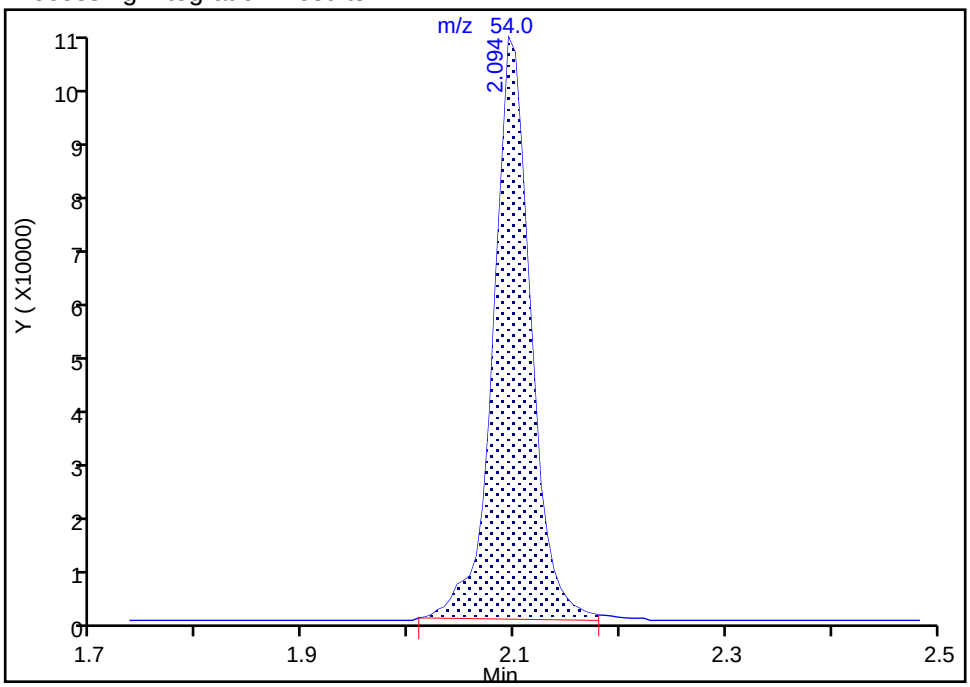
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4208.D
Injection Date: 02-Aug-2018 22:00:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AEM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

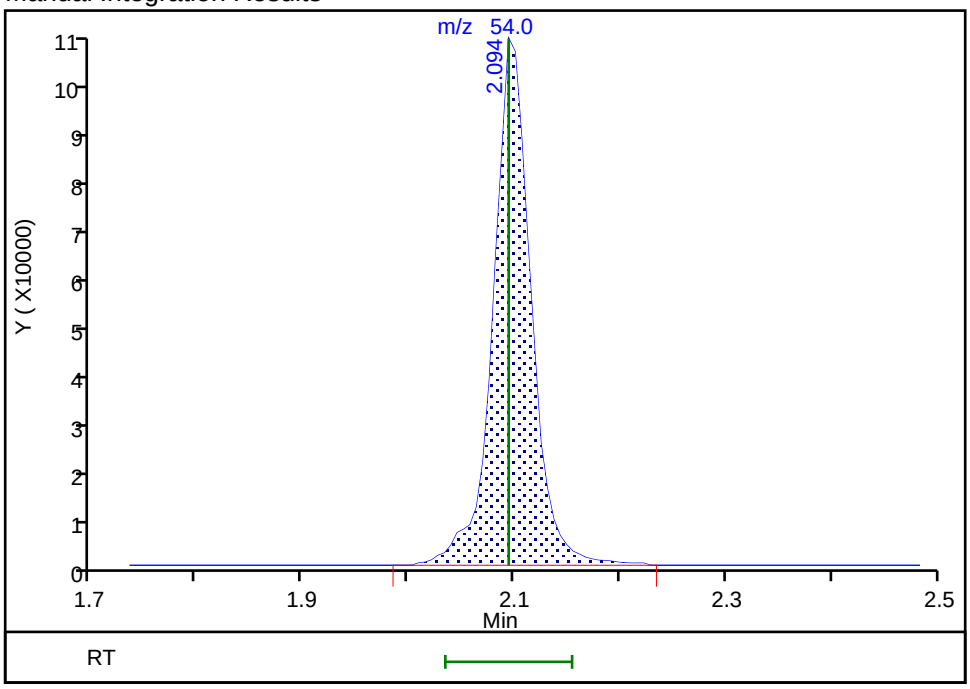
Processing Integration Results

RT: 2.09
Area: 247599
Amount: 29.216225
Amount Units: ug/kg



Manual Integration Results

RT: 2.09
Area: 251257
Amount: 29.647862
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 22:08:42
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

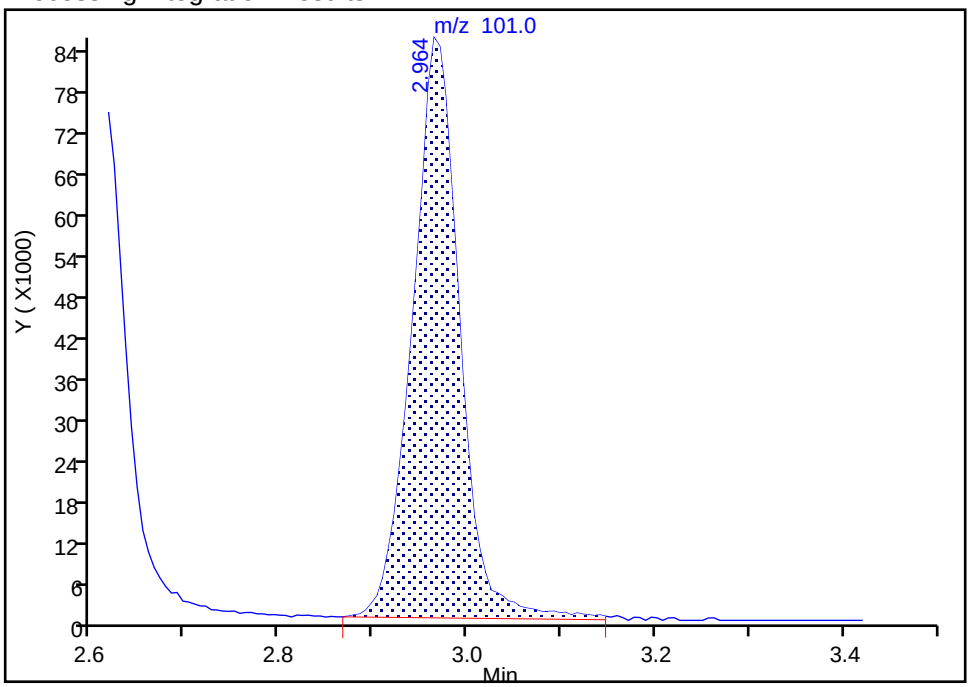
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4208.D
Injection Date: 02-Aug-2018 22:00:30 Instrument ID: HP5973F
Lims ID: CCVIS
Client ID:
Operator ID: AEM ALS Bottle#: 3 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

21 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

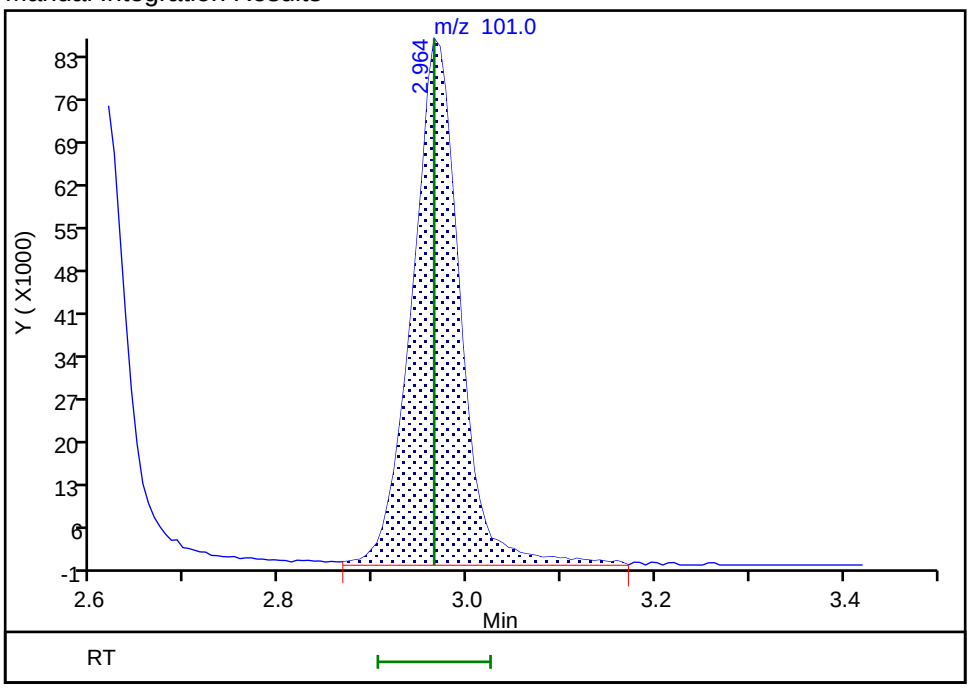
Processing Integration Results

RT: 2.96
Area: 298207
Amount: 37.964111
Amount Units: ug/kg



Manual Integration Results

RT: 2.96
Area: 304794
Amount: 38.802688
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 22:08:27
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541118/3 Calibration Date: 07/31/2018 19:21

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.2646		14.4	20.0	-28.2*	20.0
Dichlorodifluoromethane	Ave	0.8896	0.8499	0.1000	19.1	20.0	-4.5	20.0
Chloromethane	Ave	1.087	1.293	0.1000	23.8	20.0	19.0	20.0
Butadiene	Ave	0.9872	0.9628		19.5	20.0	-2.5	20.0
Vinyl chloride	Ave	1.086	1.115	0.1000	20.5	20.0	2.7	20.0
Bromomethane	Ave	0.7505	0.5884	0.1000	15.7	20.0	-21.6	50.0
Chloroethane	Ave	0.6452	0.6370	0.1000	19.7	20.0	-1.3	50.0
Dichlorofluoromethane	Ave	1.369	1.492		21.8	20.0	9.0	20.0
Pentane	Ave	6.316	4.895		31.0	40.0	-22.5*	20.0
Trichlorofluoromethane	Ave	1.006	0.9059	0.1000	18.0	20.0	-9.9	20.0
Ethyl ether	Ave	0.4485	0.5228		23.3	20.0	16.5	20.0
Ethanol	Ave	0.0795	0.0752		757	800	-5.4	50.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.5716		21.9	20.0	9.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.4836		18.1	20.0	-9.4	20.0
Acrolein	Ave	1.943	1.411		29.1	40.0	-27.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.6227	0.5843	0.1000	18.8	20.0	-6.2	20.0
1,1-Dichloroethene	Ave	0.5782	0.5574	0.1000	19.3	20.0	-3.6	20.0
Acetone	Ave	1.425	1.476	0.0500	104	100	3.6	50.0
Iodomethane	Ave	1.044	0.9881		18.9	20.0	-5.3	20.0
Carbon disulfide	Ave	2.314	2.255	0.1000	19.5	20.0	-2.5	50.0
Isopropyl alcohol	Ave	1.170	1.330		227	200	13.7	50.0
Allyl chloride	Ave	1.106	1.437		26.0	20.0	29.8*	20.0
Methyl acetate	Ave	0.3351	0.4907	0.1000	58.6	40.0	46.5*	20.0
Cyclopentene	Ave	1.469	1.530		20.8	20.0	4.1	20.0
Acetonitrile	Ave	3.446	3.813		221	200	10.6	20.0
Methylene Chloride	Ave	0.7118	0.7102	0.1000	20.0	20.0	-0.2	20.0
2-Methyl-2-propanol	Ave	2.103	2.170		206	200	3.2	50.0
Methyl tert-butyl ether	Ave	1.713	1.755	0.1000	20.5	20.0	2.4	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6276	0.1000	19.6	20.0	-1.8	20.0
Acrylonitrile	Ave	0.1912	0.2280		239	200	19.3	20.0
Hexane	Ave	0.5210	0.6252		24.0	20.0	20.0	20.0
Isopropyl ether	Ave	1.959	2.493		25.4	20.0	27.2*	20.0
1,1-Dichloroethane	Ave	1.136	1.259	0.2000	22.2	20.0	10.8	20.0
Vinyl acetate	Ave	0.1098	0.0930		33.9	40.0	-15.3	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5454		19.3	20.0	-3.3	20.0
Tert-butyl ethyl ether	Ave	1.835	2.077		22.6	20.0	13.2	20.0
2,2-Dichloropropane	Ave	0.2397	0.2370		19.8	20.0	-1.1	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7100	0.1000	19.7	20.0	-1.3	20.0
2-Butanone (MEK)	Ave	0.6625	0.5284	0.0500	79.8	100	-20.2	50.0
Ethyl acetate	Ave	0.6611	0.5133		31.1	40.0	-22.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541118/3 Calibration Date: 07/31/2018 19:21

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.6410		23.9	20.0	19.3	20.0
Propionitrile	Ave	3.721	4.093		220	200	10.0	20.0
Chlorobromomethane	Ave	0.3319	0.2953		17.8	20.0	-11.0	20.0
Tetrahydrofuran	Lin2		0.6455		34.0	40.0	-14.9	20.0
Methacrylonitrile	Ave	0.2077	0.2209		213	200	6.3	20.0
Chloroform	Ave	1.026	1.024	0.2000	20.0	20.0	-0.2	20.0
Cyclohexane	Ave	0.9576	0.9293	0.1000	19.4	20.0	-3.0	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.8579	0.1000	18.8	20.0	-6.2	20.0
Carbon tetrachloride	Ave	0.7427	0.6765	0.1000	18.2	20.0	-8.9	20.0
1,1-Dichloropropene	Ave	0.8095	0.8232		20.3	20.0	1.7	20.0
Isobutyl alcohol	Ave	1.692	1.654		489	500	-2.2	50.0
Benzene	Ave	3.489	3.847	0.5000	22.1	20.0	10.3	20.0
Isopropyl acetate	Ave	1.466	1.637		22.3	20.0	11.7	20.0
Tert-amyl methyl ether	Ave	1.952	2.022		20.7	20.0	3.6	20.0
1,2-Dichloroethane	Ave	0.7395	0.7596	0.1000	20.5	20.0	2.7	20.0
n-Heptane	Ave	0.4484	0.4858		21.7	20.0	8.4	20.0
n-Butanol	QuaF		0.3910		387	500	-22.6	50.0
Trichloroethene	Ave	0.6162	0.5670	0.2000	18.4	20.0	-8.0	20.0
Ethyl acrylate	Ave	1.338	1.478		22.1	20.0	10.4	20.0
Methylcyclohexane	Ave	1.086	1.042	0.1000	19.2	20.0	-4.1	50.0
1,2-Dichloropropane	Ave	0.6384	0.6866	0.1000	21.5	20.0	7.6	20.0
Methyl methacrylate	Lin2		0.1136		35.4	40.0	-11.5	20.0
1,4-Dioxane	Ave	1.909	2.442		512	400	27.9	50.0
Dibromomethane	Ave	0.3635	0.3377		18.6	20.0	-7.1	20.0
n-Propyl acetate	Ave	0.5927	0.7166		24.2	20.0	20.9*	20.0
Bromodichloromethane	Ave	0.7764	0.7496	0.2000	19.3	20.0	-3.5	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.3006		21.5	20.0	7.7	20.0
2-Nitropropane	Ave	0.1107	0.1259		45.5	40.0	13.7	20.0
Epichlorohydrin	Ave	0.5007	0.4317		345	400	-13.8	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.367	0.2000	21.6	20.0	7.9	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.205	0.0500	102	100	1.8	50.0
Toluene	Ave	3.527	3.629	0.4000	20.6	20.0	2.9	20.0
trans-1,3-Dichloropropene	Ave	1.057	1.086	0.1000	20.6	20.0	2.8	50.0
Ethyl methacrylate	Ave	0.8650	0.9749		22.5	20.0	12.7	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.6179	0.1000	21.0	20.0	5.2	20.0
Tetrachloroethene	Ave	0.8618	0.8017	0.2000	18.6	20.0	-7.0	20.0
1,3-Dichloropropane	Ave	1.111	1.218		21.9	20.0	9.6	20.0
2-Hexanone	Lin2		2.815	0.0500	93.6	100	-6.4	50.0
n-Butyl acetate	Lin2		1.361		27.2	20.0	36.2*	20.0
Dibromochloromethane	Ave	0.7612	0.6972	0.1000	18.3	20.0	-8.4	50.0
1,2-Dibromoethane	Ave	0.6407	0.6226	0.1000	19.4	20.0	-2.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541118/3 Calibration Date: 07/31/2018 19:21

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.224	0.5000	20.0	20.0	0.1	20.0
Ethylbenzene	Ave	1.283	1.247	0.1000	19.4	20.0	-2.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.7940		18.9	20.0	-5.7	20.0
m-Xylene & p-Xylene	Ave	1.528	1.552	0.1000	20.3	20.0	1.6	20.0
n-Butyl acrylate	Lin2		0.6122		21.3	20.0	6.3	20.0
o-Xylene	Ave	1.580	1.583	0.3000	20.0	20.0	0.2	20.0
Styrene	Ave	2.456	2.533	0.3000	20.6	20.0	3.2	20.0
Amyl acetate (mixed isomers)	Lin2		3.034		27.7	20.0	38.6*	20.0
Bromoform	Ave	0.4880	0.4285	0.1000	17.6	20.0	-12.2	20.0
Isopropylbenzene	Ave	3.798	3.941	0.1000	20.8	20.0	3.8	20.0
Bromobenzene	Ave	1.728	1.731		20.0	20.0	0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.757	0.3000	21.6	20.0	7.9	20.0
N-Propylbenzene	Ave	7.921	9.051		22.9	20.0	14.3	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4700		20.5	20.0	2.3	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.4181		22.8	20.0	14.2	20.0
2-Chlorotoluene	Ave	5.582	6.155		22.1	20.0	10.3	20.0
4-Ethyltoluene	Ave	6.531	7.409		22.7	20.0	13.5	20.0
1,3,5-Trimethylbenzene	Ave	5.756	6.274		21.8	20.0	9.0	20.0
4-Chlorotoluene	Ave	4.937	5.729		23.2	20.0	16.0	20.0
Butyl Methacrylate	Qua2		2.090		21.5	20.0	7.6	20.0
tert-Butylbenzene	Ave	4.643	4.788		20.6	20.0	3.1	20.0
1,2,4-Trimethylbenzene	Ave	5.856	6.492		22.2	20.0	10.9	20.0
sec-Butylbenzene	Ave	7.151	7.839		21.9	20.0	9.6	20.0
4-Isopropyltoluene	Ave	6.041	6.566		21.7	20.0	8.7	20.0
1,3-Dichlorobenzene	Ave	3.388	3.429	0.6000	20.2	20.0	1.2	20.0
1,4-Dichlorobenzene	Ave	3.493	3.541	0.5000	20.3	20.0	1.4	20.0
1,2,3-Trimethylbenzene	Ave	6.222	6.723		21.6	20.0	8.0	20.0
Benzyl chloride	Ave	3.109	3.376		21.7	20.0	8.6	50.0
Indan	Ave	6.256	6.876		22.0	20.0	9.9	20.0
p-Diethylbenzene	Ave	3.719	4.093		22.0	20.0	10.0	20.0
n-Butylbenzene	Ave	3.445	3.762		21.8	20.0	9.2	20.0
1,2-Dichlorobenzene	Ave	3.393	3.517	0.4000	20.7	20.0	3.7	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	6.349		21.9	20.0	9.4	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.3218	0.0500	21.5	20.0	7.3	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.821		21.3	20.0	6.6	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.518	0.2000	21.4	20.0	7.0	20.0
Hexachlorobutadiene	Ave	1.115	1.096		19.7	20.0	-1.7	20.0
Naphthalene	Ave	4.978	5.551		22.3	20.0	11.5	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.237		19.8	20.0	-0.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2357		47.3	50.0	-5.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2761		51.9	50.0	3.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541118/3 Calibration Date: 07/31/2018 19:21

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68503.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.378	1.383		50.2	50.0	0.3	20.0
4-Bromofluorobenzene	Ave	0.4036	0.3807		47.2	50.0	-5.7	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68503.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 31-Jul-2018 19:21:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0076414-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:55:13 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 01-Aug-2018 07:24:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	90	28994	20.0	14.4	
2 Dichlorodifluoromethane	85	1.566	1.566	0.000	99	93137	20.0	19.1	
3 Chloromethane	50	1.739	1.739	0.000	99	141732	20.0	23.8	
4 Vinyl chloride	62	1.829	1.829	0.000	92	122233	20.0	20.5	
5 Butadiene	54	1.829	1.829	0.000	95	105508	20.0	19.5	
6 Bromomethane	94	2.108	2.108	0.000	98	64483	20.0	15.7	
7 Chloroethane	64	2.174	2.174	0.000	100	69802	20.0	19.7	
8 Dichlorofluoromethane	67	2.347	2.347	0.000	98	163553	20.0	21.8	
10 Pentane	72	2.355	2.355	0.000	97	21113	40.0	31.0	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	51	99275	20.0	18.0	
12 Ethyl ether	59	2.544	2.544	0.000	94	57287	20.0	23.3	
11 Ethanol	46	2.552	2.552	0.000	72	6490	800.0	756.9	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	98	62636	20.0	21.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	97	53001	20.0	18.1	
15 Acrolein	56	2.716	2.716	0.000	86	6086	40.0	29.1	
16 1,1,2-Trichloro-1,2,2-trif	101	2.733	2.733	0.000	95	64031	20.0	18.8	
17 1,1-Dichloroethene	96	2.749	2.749	0.000	96	61078	20.0	19.3	
18 Acetone	43	2.840	2.840	0.000	86	88313	100.0	103.6	
19 Iodomethane	142	2.905	2.905	0.000	97	108280	20.0	18.9	
20 Isopropyl alcohol	45	2.938	2.938	0.000	26	28681	200.0	227.4	
21 Carbon disulfide	76	2.938	2.938	0.000	100	247163	20.0	19.5	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	95	157430	20.0	26.0	
24 Methyl acetate	43	3.070	3.070	0.000	100	107550	40.0	58.6	
23 Cyclopentene	67	3.078	3.078	0.000	95	167657	20.0	20.8	
25 Acetonitrile	41	3.135	3.135	0.000	97	82217	200.0	221.2	a
27 Methylene Chloride	84	3.185	3.185	0.000	98	77830	20.0	20.0	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	107823	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.250	0.000	91	46788	200.0	206.4	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	98	192293	20.0	20.5	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	98	68776	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.439	0.000	94	249808	200.0	238.5	
32 Hexane	43	3.513	3.513	0.000	95	68517	20.0	24.0	
33 Isopropyl ether	45	3.719	3.719	0.000	96	273167	20.0	25.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	137985	20.0	22.2	
35 Vinyl acetate	86	3.768	3.768	0.000	100	20374	40.0	33.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	93	59771	20.0	19.3	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	227650	20.0	22.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	149574	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	96	25973	20.0	19.8	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	92	77811	20.0	19.7	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	95	31615	100.0	79.8	
42 Ethyl acetate	70	4.286	4.286	0.000	97	12283	40.0	31.1	
43 Methyl acrylate	55	4.343	4.343	0.000	98	47329	20.0	23.9	
44 Propionitrile	54	4.417	4.417	0.000	98	88269	200.0	220.0	
45 Chlorobromomethane	128	4.491	4.491	0.000	98	32355	20.0	17.8	
46 Tetrahydrofuran	72	4.499	4.499	0.000	53	15449	40.0	34.0	
47 Methacrylonitrile	67	4.516	4.516	0.000	94	242088	200.0	212.7	
48 Chloroform	83	4.540	4.540	0.000	98	112266	20.0	20.0	
49 Cyclohexane	84	4.680	4.680	0.000	95	101841	20.0	19.4	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	97	94017	20.0	18.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	64585	50.0	47.3	
52 Carbon tetrachloride	117	4.812	4.812	0.000	95	74139	20.0	18.2	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	90213	20.0	20.3	
54 Isobutyl alcohol	43	4.984	4.984	0.000	41	89188	500.0	488.8	a
55 Benzene	78	5.033	5.033	0.000	98	284062	20.0	22.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	75640	50.0	51.9	
57 Isopropyl acetate	43	5.083	5.083	0.000	91	179356	20.0	22.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	81	221549	20.0	20.7	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	83239	20.0	20.5	
60 n-Heptane	57	5.173	5.173	0.000	95	53240	20.0	21.7	
* 61 Fluorobenzene	96	5.313	5.313	0.000	98	273967	50.0	50.0	
62 n-Butanol	56	5.642	5.642	0.000	97	21078	500.0	386.8	
63 Trichloroethene	95	5.666	5.666	0.000	98	62134	20.0	18.4	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	161946	20.0	22.1	
64 Methylcyclohexane	83	5.789	5.789	0.000	86	114193	20.0	19.2	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	90	75247	20.0	21.5	
* 67 1,4-Dioxane-d8	96	6.020	6.020	0.000	0	8860	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	92	24894	40.0	35.4	
69 1,4-Dioxane	88	6.077	6.077	0.000	25	8655	400.0	511.8	a
70 n-Propyl acetate	43	6.085	6.085	0.000	99	78532	20.0	24.2	
71 Dibromomethane	93	6.085	6.085	0.000	68	37004	20.0	18.6	
72 Dichlorobromomethane	83	6.233	6.233	0.000	98	82146	20.0	19.3	
74 2-Chloroethyl vinyl ether	63	6.562	6.562	0.000	74	32943	20.0	21.5	
73 2-Nitropropane	41	6.562	6.562	0.000	81	27594	40.0	45.5	
75 Epichlorohydrin	57	6.677	6.677	0.000	100	103320	400.0	344.9	
76 cis-1,3-Dichloropropene	75	6.726	6.726	0.000	95	100960	20.0	21.6	
77 4-Methyl-2-pentanone (MIBK	43	6.891	6.891	0.000	98	311383	100.0	101.8	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	98	255229	50.0	50.2	
79 Toluene	91	7.047	7.047	0.000	94	267960	20.0	20.6	
80 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	98	80192	20.0	20.6	
81 Ethyl methacrylate	69	7.425	7.425	0.000	91	71982	20.0	22.5	
82 1,1,2-Trichloroethane	83	7.614	7.614	0.000	95	45627	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	95	59195	20.0	18.6	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	97	89954	20.0	21.9	
85 2-Hexanone	43	7.885	7.885	0.000	99	168434	100.0	93.6	
86 n-Butyl acetate	43	8.000	8.000	0.000	98	100465	20.0	27.2	
87 Chlorodibromomethane	129	8.057	8.057	0.000	97	51480	20.0	18.3	
88 Ethylene Dibromide	107	8.213	8.213	0.000	98	45968	20.0	19.4	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	88	184596	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	93	164185	20.0	20.0	
91 Ethylbenzene	106	8.895	8.895	0.000	99	92090	20.0	19.4	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	94	58630	20.0	18.9	
93 m-Xylene & p-Xylene	106	9.052	9.052	0.000	0	114609	20.0	20.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	95	45205	20.0	21.3	
95 o-Xylene	106	9.495	9.495	0.000	93	116874	20.0	20.0	
96 Styrene	104	9.528	9.528	0.000	95	187050	20.0	20.6	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	90	122267	20.0	27.7	
98 Bromoform	173	9.734	9.734	0.000	95	31638	20.0	17.6	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	291006	20.0	20.8	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	70269	50.0	47.2	
101 Bromobenzene	156	10.144	10.144	0.000	96	69753	20.0	20.0	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	70808	20.0	21.6	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	364680	20.0	22.9	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	97	18936	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	16846	20.0	22.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	248022	20.0	22.1	
107 4-Ethyltoluene	105	10.292	10.292	0.000	87	298547	20.0	22.7	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	252816	20.0	21.8	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	230833	20.0	23.2	
110 Butyl Methacrylate	87	10.424	10.424	0.000	96	84226	20.0	21.5	
111 tert-Butylbenzene	119	10.580	10.580	0.000	93	192909	20.0	20.6	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	261592	20.0	22.2	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	315849	20.0	21.9	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	264569	20.0	21.7	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	95	138180	20.0	20.2	
* 116 1,4-Dichlorobenzene-d4	152	10.900	10.900	0.000	97	100733	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	92	142696	20.0	20.3	
132 1,2,3-Trimethylbenzene	105	10.925	10.925	0.000	98	270893	20.0	21.6	
118 Benzyl chloride	91	11.015	11.015	0.000	98	136033	20.0	21.7	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	277067	20.0	22.0	
120 p-Diethylbenzene	119	11.098	11.098	0.000	93	164901	20.0	22.0	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	151564	20.0	21.8	
122 1,2-Dichlorobenzene	146	11.172	11.172	0.000	95	141731	20.0	20.7	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	255830	20.0	21.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	12968	20.0	21.5	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	97	113663	20.0	21.3	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	94	101450	20.0	21.4	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	95	44175	20.0	19.7	
128 Naphthalene	128	12.314	12.314	0.000	99	223665	20.0	22.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	94	90127	20.0	19.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.4	
S 131 Xylenes, Total	100				0		40.0	40.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

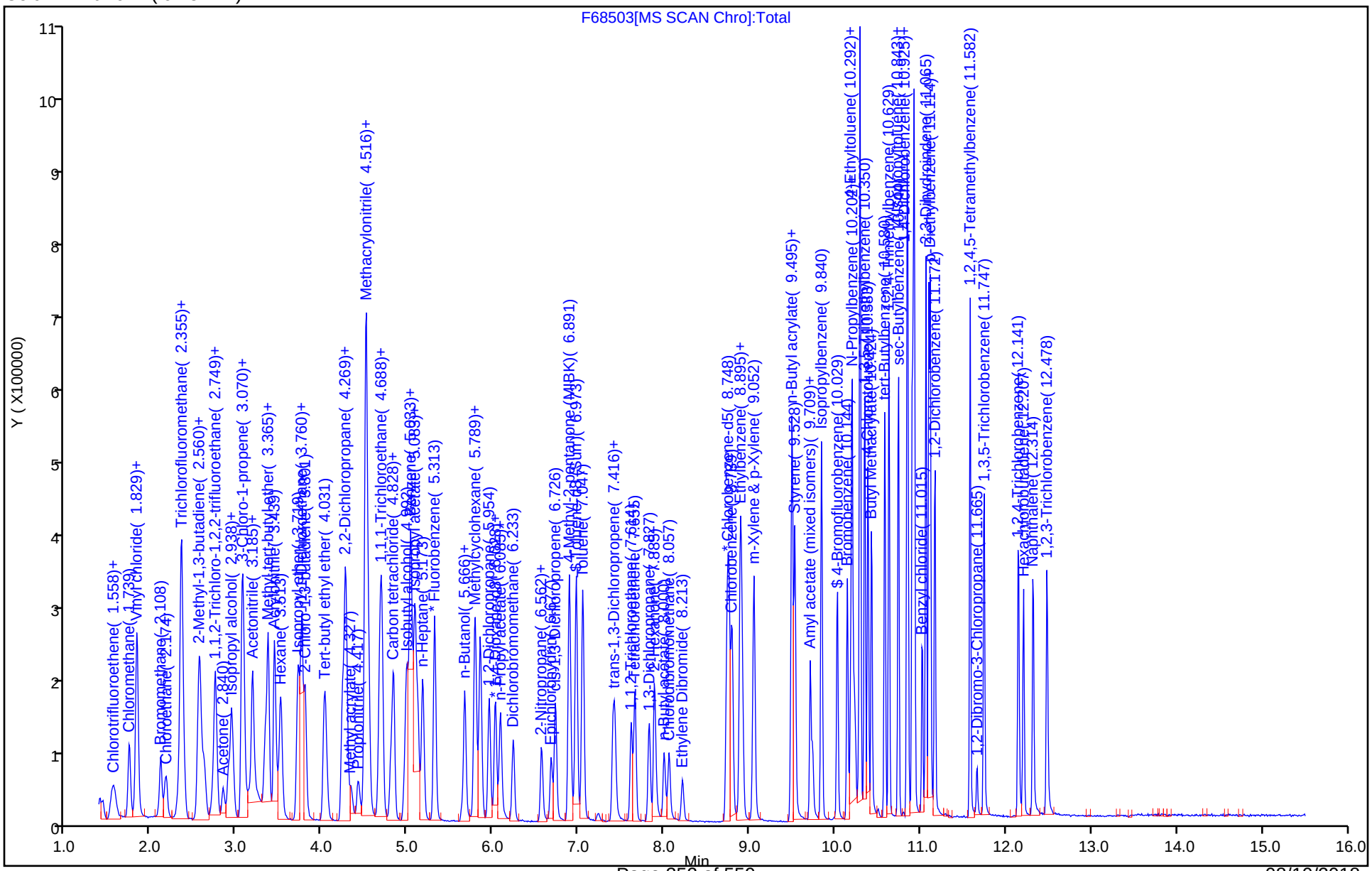
Report Date: 01-Aug-2018 08:55:16 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68503.D

Injection Date:	31-Jul-2018 19:21:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

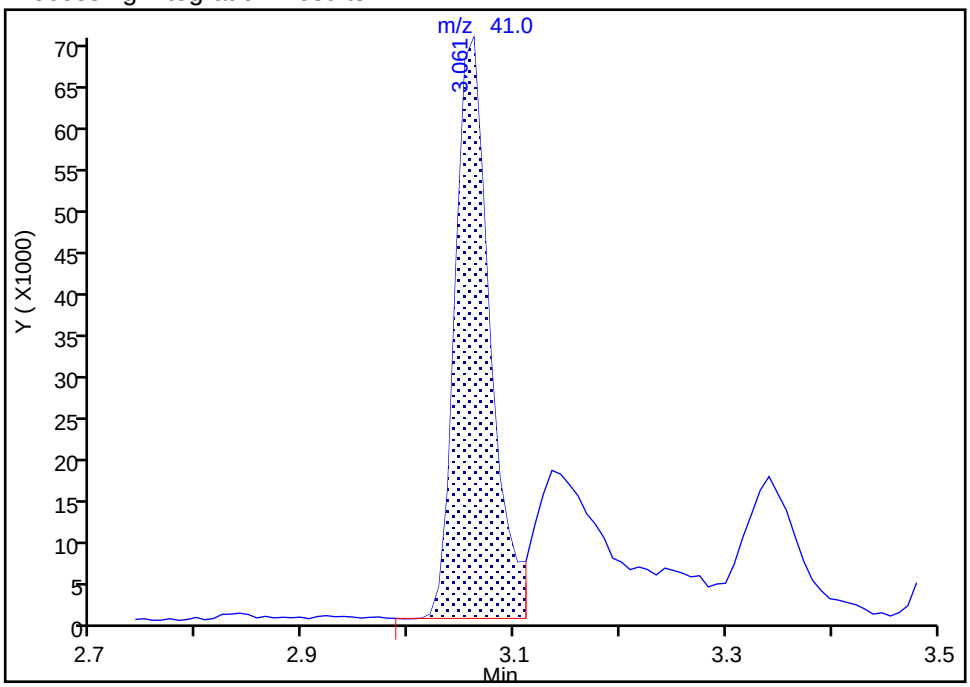
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68503.D
Injection Date: 31-Jul-2018 19:21:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

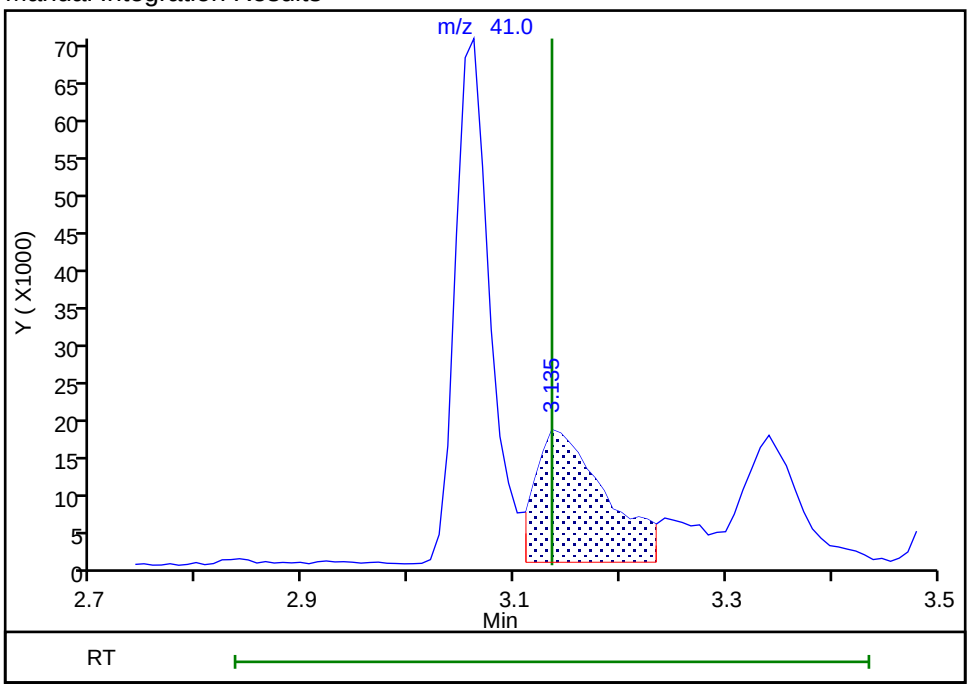
Processing Integration Results

RT: 3.06
Area: 160486
Amount: 431.8690
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 82217
Amount: 221.2465
Amount Units: ug/l



Reviewer: moroneyc, 01-Aug-2018 07:24:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

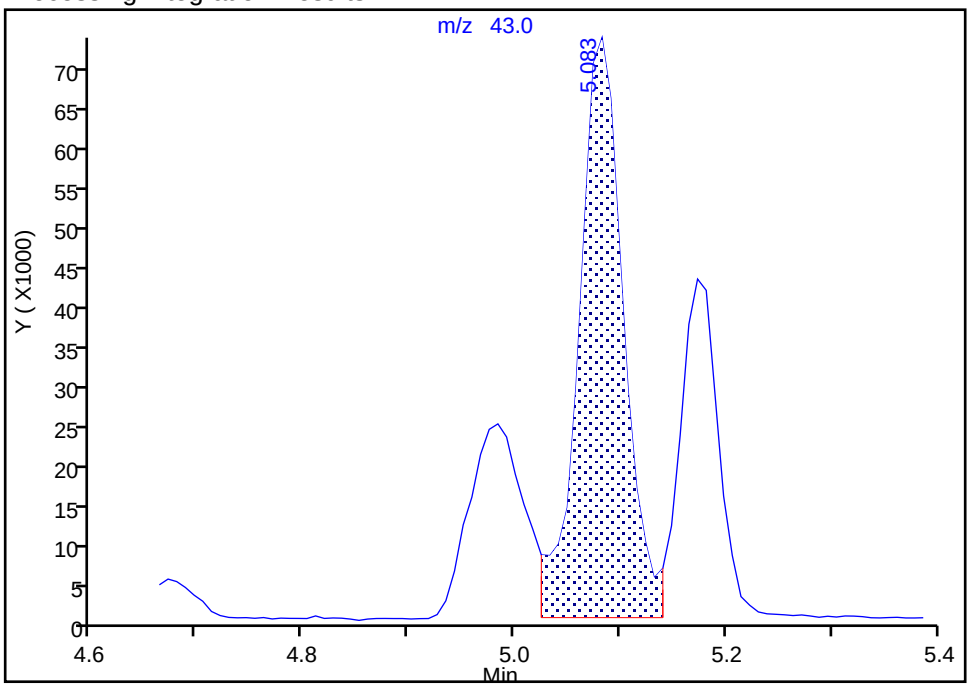
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68503.D
Injection Date: 31-Jul-2018 19:21:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

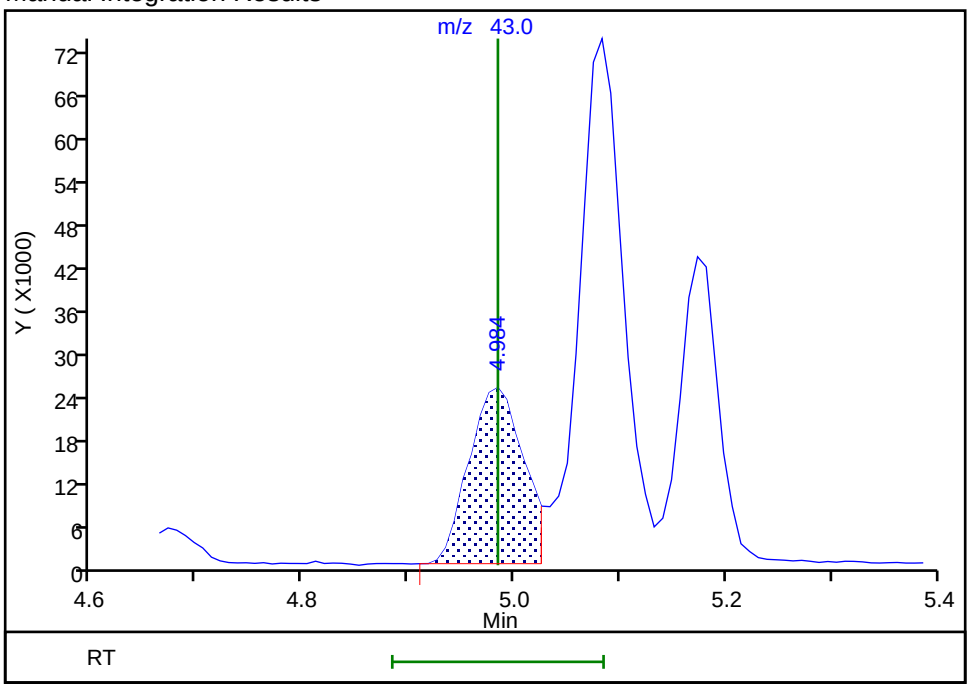
Processing Integration Results

RT: 5.08
Area: 217684
Amount: 1193.1462
Amount Units: ug/l



Manual Integration Results

RT: 4.98
Area: 89188
Amount: 488.8477
Amount Units: ug/l



Reviewer: parekhv, 31-Jul-2018 19:41:28
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

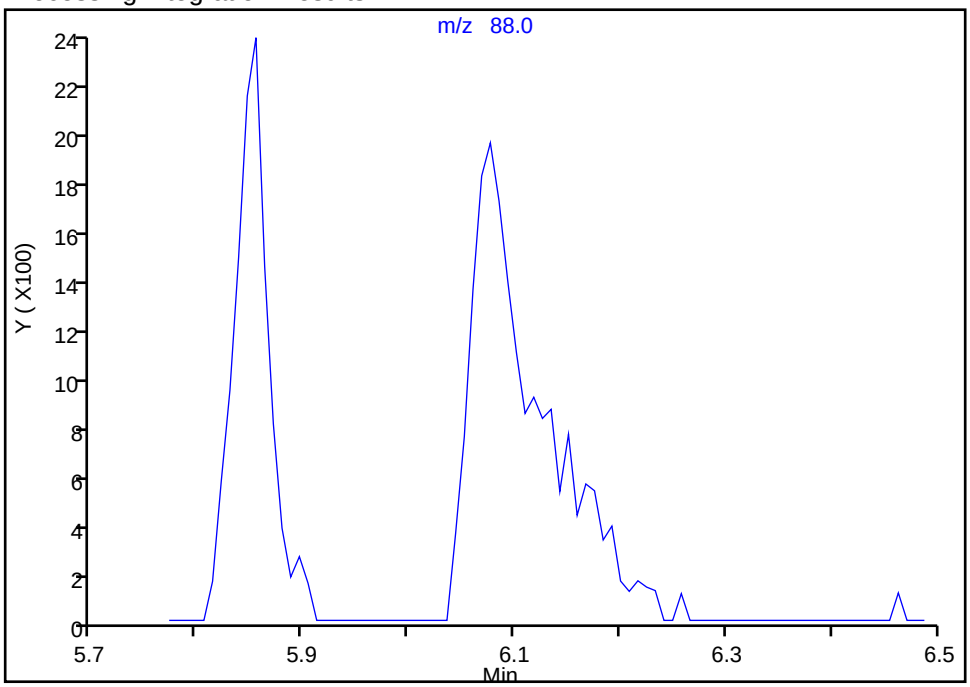
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68503.D
Injection Date: 31-Jul-2018 19:21:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

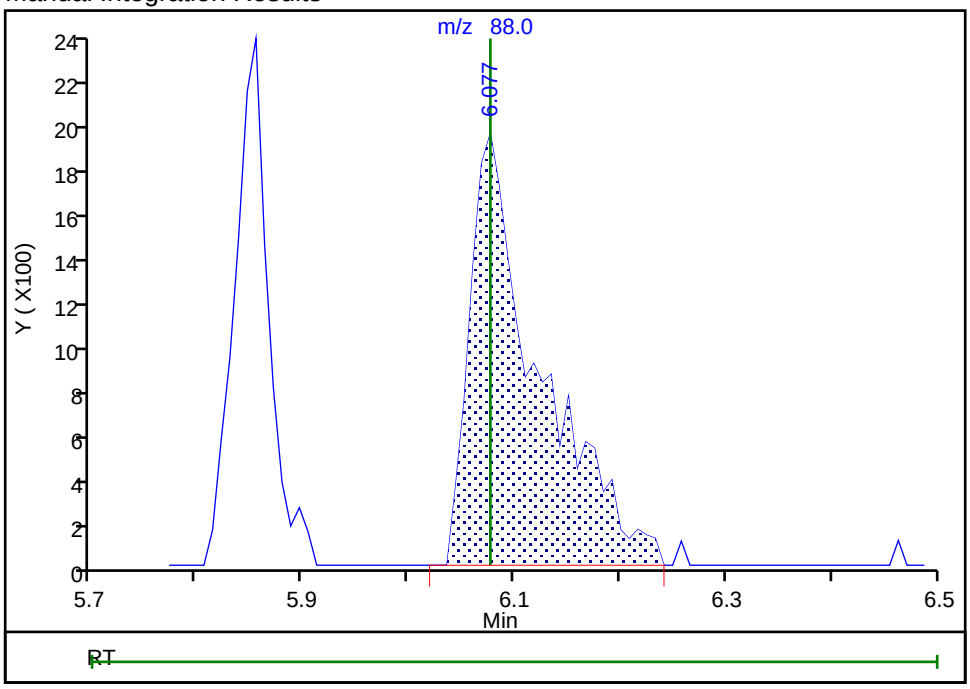
Not Detected
Expected RT: 6.08

Processing Integration Results



Manual Integration Results

RT: 6.08
Area: 8655
Amount: 511.7805
Amount Units: ug/l



Reviewer: parekhv, 31-Jul-2018 20:38:56
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541225/3 Calibration Date: 08/01/2018 06:54

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.3651		19.8	20.0	-0.9	20.0
Dichlorodifluoromethane	Ave	0.8896	0.9310	0.1000	20.9	20.0	4.6	20.0
Chloromethane	Ave	1.087	1.199	0.1000	22.1	20.0	10.4	20.0
Butadiene	Ave	0.9872	1.027		20.8	20.0	4.0	20.0
Vinyl chloride	Ave	1.086	1.071	0.1000	19.7	20.0	-1.4	20.0
Bromomethane	Ave	0.7505	0.5236	0.1000	14.0	20.0	-30.2	50.0
Chloroethane	Ave	0.6452	0.6201	0.1000	19.2	20.0	-3.9	50.0
Dichlorofluoromethane	Ave	1.369	1.455		21.3	20.0	6.3	20.0
Pentane	Ave	6.316	7.004		44.4	40.0	10.9	20.0
Trichlorofluoromethane	Ave	1.006	0.9905	0.1000	19.7	20.0	-1.5	20.0
Ethyl ether	Ave	0.4485	0.5677		25.3	20.0	26.6*	20.0
Ethanol	Ave	0.0795	0.0648		652	800	-18.5	50.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.6704		25.7	20.0	28.4*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.5497		20.6	20.0	3.0	20.0
Acrolein	Ave	1.943	1.208		24.9	40.0	-37.8	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.6227	0.7137	0.1000	22.9	20.0	14.6	20.0
1,1-Dichloroethene	Ave	0.5782	0.6171	0.1000	21.3	20.0	6.7	20.0
Acetone	Ave	1.425	1.834	0.0500	129	100	28.7	50.0
Iodomethane	Ave	1.044	1.030		19.7	20.0	-1.3	20.0
Carbon disulfide	Ave	2.314	2.548	0.1000	22.0	20.0	10.1	50.0
Isopropyl alcohol	Ave	1.170	1.387		237	200	18.6	50.0
Allyl chloride	Ave	1.106	1.595		28.8	20.0	44.1*	20.0
Methyl acetate	Ave	0.3351	0.5350	0.1000	63.9	40.0	59.7*	20.0
Cyclopentene	Ave	1.469	1.812		24.7	20.0	23.3*	20.0
Acetonitrile	Ave	3.446	5.512		320	200	59.9*	20.0
Methylene Chloride	Ave	0.7118	0.7675	0.1000	21.6	20.0	7.8	20.0
2-Methyl-2-propanol	Ave	2.103	2.271		216	200	8.0	50.0
Methyl tert-butyl ether	Ave	1.713	1.869	0.1000	21.8	20.0	9.1	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6900	0.1000	21.6	20.0	7.9	20.0
Acrylonitrile	Ave	0.1912	0.2525		264	200	32.1*	20.0
Hexane	Ave	0.5210	0.7721		29.6	20.0	48.2*	20.0
Isopropyl ether	Ave	1.959	2.614		26.7	20.0	33.4*	20.0
1,1-Dichloroethane	Ave	1.136	1.348	0.2000	23.7	20.0	18.7	20.0
Vinyl acetate	Ave	0.1098	0.1016		37.0	40.0	-7.5	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5961		21.1	20.0	5.7	20.0
Tert-butyl ethyl ether	Ave	1.835	2.161		23.6	20.0	17.8	20.0
2,2-Dichloropropane	Ave	0.2397	0.2312		19.3	20.0	-3.6	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7571	0.1000	21.0	20.0	5.2	20.0
Ethyl acetate	Ave	0.6611	0.5578		33.7	40.0	-15.6	20.0
2-Butanone (MEK)	Ave	0.6625	0.5653	0.0500	85.3	100	-14.7	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541225/3 Calibration Date: 08/01/2018 06:54

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.6764		25.2	20.0	25.9*	20.0
Propionitrile	Ave	3.721	4.625		249	200	24.3*	20.0
Chlorobromomethane	Ave	0.3319	0.3220		19.4	20.0	-3.0	20.0
Tetrahydrofuran	Lin2		0.7214		38.2	40.0	-4.6	20.0
Methacrylonitrile	Ave	0.2077	0.2427		234	200	16.8	20.0
Chloroform	Ave	1.026	1.106	0.2000	21.6	20.0	7.8	20.0
Cyclohexane	Ave	0.9576	1.084	0.1000	22.6	20.0	13.2	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.9088	0.1000	19.9	20.0	-0.6	20.0
Carbon tetrachloride	Ave	0.7427	0.7347	0.1000	19.8	20.0	-1.1	20.0
1,1-Dichloropropene	Ave	0.8095	0.9212		22.8	20.0	13.8	20.0
Isobutyl alcohol	Ave	1.692	2.115		625	500	25.0	50.0
Benzene	Ave	3.489	4.132	0.5000	23.7	20.0	18.4	20.0
Isopropyl acetate	Ave	1.466	1.661		22.7	20.0	13.4	20.0
Tert-amyl methyl ether	Ave	1.952	2.118		21.7	20.0	8.5	20.0
1,2-Dichloroethane	Ave	0.7395	0.8130	0.1000	22.0	20.0	9.9	20.0
n-Heptane	Ave	0.4484	0.5949		26.5	20.0	32.7*	20.0
n-Butanol	QuaF		0.3754		372	500	-25.7	50.0
Trichloroethene	Ave	0.6162	0.6249	0.2000	20.3	20.0	1.4	20.0
Ethyl acrylate	Ave	1.338	1.651		24.7	20.0	23.3*	20.0
Methylcyclohexane	Ave	1.086	1.229	0.1000	22.6	20.0	13.2	50.0
1,2-Dichloropropane	Ave	0.6384	0.7525	0.1000	23.6	20.0	17.9	20.0
Methyl methacrylate	Lin2		0.1207		37.6	40.0	-6.0	20.0
1,4-Dioxane	Ave	1.909	1.992		418	400	4.4	50.0
n-Propyl acetate	Ave	0.5927	0.7669		25.9	20.0	29.4*	20.0
Dibromomethane	Ave	0.3635	0.3529		19.4	20.0	-2.9	20.0
Bromodichloromethane	Ave	0.7764	0.7977	0.2000	20.5	20.0	2.7	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.3179		22.8	20.0	13.9	20.0
2-Nitropropane	Ave	0.1107	0.1246		45.0	40.0	12.5	20.0
Epichlorohydrin	Ave	0.5007	0.4943		395	400	-1.3	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.446	0.2000	22.8	20.0	14.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.618	0.0500	110	100	9.9	50.0
Toluene	Ave	3.527	3.931	0.4000	22.3	20.0	11.5	20.0
trans-1,3-Dichloropropene	Ave	1.057	1.190	0.1000	22.5	20.0	12.6	50.0
Ethyl methacrylate	Ave	0.8650	1.030		23.8	20.0	19.1	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.6668	0.1000	22.7	20.0	13.5	20.0
Tetrachloroethene	Ave	0.8618	0.8911	0.2000	20.7	20.0	3.4	20.0
1,3-Dichloropropane	Ave	1.111	1.304		23.5	20.0	17.3	20.0
2-Hexanone	Lin2		2.961	0.0500	98.3	100	-1.7	50.0
n-Butyl acetate	Lin2		1.437		28.7	20.0	43.6*	20.0
Dibromochloromethane	Ave	0.7612	0.7403	0.1000	19.4	20.0	-2.8	50.0
1,2-Dibromoethane	Ave	0.6407	0.6639	0.1000	20.7	20.0	3.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541225/3 Calibration Date: 08/01/2018 06:54

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.355	0.5000	21.2	20.0	6.1	20.0
Ethylbenzene	Ave	1.283	1.363	0.1000	21.3	20.0	6.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.8270		19.6	20.0	-1.8	20.0
m-Xylene & p-Xylene	Ave	1.528	1.644	0.1000	21.5	20.0	7.6	20.0
n-Butyl acrylate	Lin2		0.6212		21.6	20.0	7.9	20.0
o-Xylene	Ave	1.580	1.669	0.3000	21.1	20.0	5.6	20.0
Styrene	Ave	2.456	2.626	0.3000	21.4	20.0	6.9	20.0
Amyl acetate (mixed isomers)	Lin2		2.966		27.1	20.0	35.6*	20.0
Bromoform	Ave	0.4880	0.4578	0.1000	18.8	20.0	-6.2	20.0
Isopropylbenzene	Ave	3.798	4.244	0.1000	22.4	20.0	11.8	20.0
Bromobenzene	Ave	1.728	1.875		21.7	20.0	8.5	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.896	0.3000	23.3	20.0	16.4	20.0
N-Propylbenzene	Ave	7.921	9.636		24.3	20.0	21.6*	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4919		21.4	20.0	7.0	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.4223		23.1	20.0	15.3	20.0
2-Chlorotoluene	Ave	5.582	6.565		23.5	20.0	17.6	20.0
4-Ethyltoluene	Ave	6.531	7.818		23.9	20.0	19.7	20.0
1,3,5-Trimethylbenzene	Ave	5.756	6.711		23.3	20.0	16.6	20.0
4-Chlorotoluene	Ave	4.937	5.938		24.1	20.0	20.3*	20.0
Butyl Methacrylate	Qua2		2.109		21.7	20.0	8.5	20.0
tert-Butylbenzene	Ave	4.643	5.122		22.1	20.0	10.3	20.0
1,2,4-Trimethylbenzene	Ave	5.856	6.647		22.7	20.0	13.5	20.0
sec-Butylbenzene	Ave	7.151	8.434		23.6	20.0	17.9	20.0
4-Isopropyltoluene	Ave	6.041	6.926		22.9	20.0	14.7	20.0
1,3-Dichlorobenzene	Ave	3.388	3.584	0.6000	21.2	20.0	5.8	20.0
1,4-Dichlorobenzene	Ave	3.493	3.704	0.5000	21.2	20.0	6.0	20.0
1,2,3-Trimethylbenzene	Ave	6.222	7.049		22.7	20.0	13.3	20.0
Benzyl chloride	Ave	3.109	3.535		22.7	20.0	13.7	50.0
Indan	Ave	6.256	7.264		23.2	20.0	16.1	20.0
p-Diethylbenzene	Ave	3.719	4.338		23.3	20.0	16.6	20.0
n-Butylbenzene	Ave	3.445	4.121		23.9	20.0	19.6	20.0
1,2-Dichlorobenzene	Ave	3.393	3.719	0.4000	21.9	20.0	9.6	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	6.418		22.1	20.0	10.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.3322	0.0500	22.1	20.0	10.7	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.986		22.6	20.0	12.9	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.539	0.2000	21.6	20.0	7.9	20.0
Hexachlorobutadiene	Ave	1.115	1.158		20.8	20.0	3.8	20.0
Naphthalene	Ave	4.978	5.556		22.3	20.0	11.6	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.342		20.8	20.0	3.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2311		46.4	50.0	-7.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2713		51.0	50.0	1.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-541225/3 Calibration Date: 08/01/2018 06:54

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.378	1.349		49.0	50.0	-2.1	20.0
4-Bromofluorobenzene	Ave	0.4036	0.3847		47.7	50.0	-4.7	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68527.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 01-Aug-2018 06:54:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0076436-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 09:20:14 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 01-Aug-2018 07:17:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.549	1.549	0.000	90	41111	20.0	19.8	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	98	104827	20.0	20.9	
3 Chloromethane	50	1.747	1.747	0.000	99	135062	20.0	22.1	
4 Vinyl chloride	62	1.837	1.837	0.000	85	120543	20.0	19.7	
5 Butadiene	54	1.837	1.837	0.000	97	115630	20.0	20.8	
6 Bromomethane	94	2.116	2.116	0.000	99	58954	20.0	14.0	
7 Chloroethane	64	2.174	2.174	0.000	99	69821	20.0	19.2	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	163864	20.0	21.3	
10 Pentane	72	2.363	2.363	0.000	96	29339	40.0	44.4	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	49	111531	20.0	19.7	
12 Ethyl ether	59	2.552	2.552	0.000	94	63925	20.0	25.3	
11 Ethanol	46	2.560	2.560	0.000	72	5427	800.0	651.7	
13 2-Methyl-1,3-butadiene	53	2.577	2.577	0.000	97	75487	20.0	25.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	89	61891	20.0	20.6	
15 Acrolein	56	2.741	2.741	0.000	31	5061	40.0	24.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	95	80358	20.0	22.9	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	96	69490	20.0	21.3	
18 Acetone	43	2.848	2.848	0.000	85	108031	100.0	128.7	
19 Iodomethane	142	2.913	2.913	0.000	98	115991	20.0	19.7	
20 Isopropyl alcohol	45	2.955	2.955	0.000	25	29047	200.0	237.1	
21 Carbon disulfide	76	2.955	2.955	0.000	100	286910	20.0	22.0	
22 3-Chloro-1-propene	41	3.070	3.070	0.000	95	179566	20.0	28.8	
24 Methyl acetate	43	3.078	3.078	0.000	98	120482	40.0	63.9	
23 Cyclopentene	67	3.086	3.086	0.000	96	204016	20.0	24.7	
25 Acetonitrile	41	3.152	3.152	0.000	98	115431	200.0	319.8	a
27 Methylene Chloride	84	3.193	3.193	0.000	97	86424	20.0	21.6	
* 26 TBA-d9 (IS)	65	3.209	3.209	0.000	0	104716	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	93	47563	200.0	216.0	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	210485	20.0	21.8	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	98	77690	20.0	21.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	95	284321	200.0	264.2	
32 Hexane	43	3.521	3.521	0.000	94	86936	20.0	29.6	
33 Isopropyl ether	45	3.727	3.727	0.000	96	294336	20.0	26.7	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	151770	20.0	23.7	
35 Vinyl acetate	86	3.768	3.768	0.000	100	22874	40.0	37.0	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	93	67122	20.0	21.1	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	243370	20.0	23.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	147248	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	26031	20.0	19.3	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	93	85244	20.0	21.0	
42 Ethyl acetate	70	4.286	4.286	0.000	96	13141	40.0	33.7	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	95	33297	100.0	85.3	
43 Methyl acrylate	55	4.343	4.343	0.000	99	49871	20.0	25.2	
44 Propionitrile	54	4.425	4.425	0.000	98	96855	200.0	248.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	98	36255	20.0	19.4	
46 Tetrahydrofuran	72	4.508	4.508	0.000	88	16996	40.0	38.2	
47 Methacrylonitrile	67	4.516	4.516	0.000	94	273250	200.0	233.6	
48 Chloroform	83	4.549	4.549	0.000	97	124545	20.0	21.6	
49 Cyclohexane	84	4.680	4.680	0.000	95	122101	20.0	22.6	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	96	102333	20.0	19.9	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	65049	50.0	46.4	
52 Carbon tetrachloride	117	4.812	4.812	0.000	96	82732	20.0	19.8	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	103727	20.0	22.8	
54 Isobutyl alcohol	43	4.992	4.992	0.000	45	110748	500.0	625.0	
55 Benzene	78	5.033	5.033	0.000	98	304681	20.0	23.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	76361	50.0	51.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	95	187072	20.0	22.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	89	238540	20.0	21.7	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	91540	20.0	22.0	
60 n-Heptane	57	5.181	5.181	0.000	96	66982	20.0	26.5	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	281501	50.0	50.0	
62 n-Butanol	56	5.641	5.641	0.000	95	19657	500.0	371.6	
63 Trichloroethene	95	5.674	5.674	0.000	98	70366	20.0	20.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	96	185848	20.0	24.7	
64 Methylcyclohexane	83	5.798	5.798	0.000	87	138426	20.0	22.6	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	90	84736	20.0	23.6	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	8452	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	93	27191	40.0	37.6	
69 1,4-Dioxane	88	6.077	6.077	0.000	28	6736	400.0	417.5	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	86350	20.0	25.9	
71 Dibromomethane	93	6.093	6.093	0.000	95	39734	20.0	19.4	
72 Dichlorobromomethane	83	6.233	6.233	0.000	98	89816	20.0	20.5	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	72	35798	20.0	22.8	
73 2-Nitropropane	41	6.570	6.570	0.000	80	28049	40.0	45.0	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	116451	400.0	394.9	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	94	106646	20.0	22.8	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	98	330922	100.0	109.9	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	248726	50.0	49.0	
79 Toluene	91	7.055	7.055	0.000	93	289877	20.0	22.3	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	87705	20.0	22.5	
81 Ethyl methacrylate	69	7.425	7.425	0.000	91	75969	20.0	23.8	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	95	49163	20.0	22.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	95	65702	20.0	20.7	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	97	96136	20.0	23.5	
85 2-Hexanone	43	7.893	7.893	0.000	98	174393	100.0	98.3	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	105938	20.0	28.7	
87 Chlorodibromomethane	129	8.057	8.057	0.000	97	54581	20.0	19.4	
88 Ethylene Dibromide	107	8.213	8.213	0.000	100	48952	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	88	184331	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	173664	20.0	21.2	
91 Ethylbenzene	106	8.895	8.895	0.000	99	100523	20.0	21.3	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	95	60976	20.0	19.6	
93 m-Xylene & p-Xylene	106	9.051	9.051	0.000	0	121198	20.0	21.5	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	45803	20.0	21.6	
95 o-Xylene	106	9.503	9.503	0.000	93	123033	20.0	21.1	
96 Styrene	104	9.528	9.528	0.000	94	193609	20.0	21.4	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	91	119729	20.0	27.1	
98 Bromoform	173	9.742	9.742	0.000	96	33757	20.0	18.8	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	312945	20.0	22.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	86	70916	50.0	47.7	
101 Bromobenzene	156	10.144	10.144	0.000	96	75677	20.0	21.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	76524	20.0	23.3	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	388995	20.0	24.3	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	94	19856	20.0	21.4	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	17046	20.0	23.1	
107 4-Ethyltoluene	105	10.292	10.292	0.000	88	315578	20.0	23.9	
106 2-Chlorotoluene	91	10.292	10.292	0.000	93	265014	20.0	23.5	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	270893	20.0	23.3	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	239716	20.0	24.1	
110 Butyl Methacrylate	87	10.432	10.432	0.000	95	85118	20.0	21.7	
111 tert-Butylbenzene	119	10.580	10.580	0.000	93	206768	20.0	22.1	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	268314	20.0	22.7	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	340469	20.0	23.6	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	279599	20.0	22.9	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	94	144671	20.0	21.2	
* 116 1,4-Dichlorobenzene-d4	152	10.900	10.900	0.000	97	100920	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	92	149509	20.0	21.2	
132 1,2,3-Trimethylbenzene	105	10.925	10.925	0.000	98	284567	20.0	22.7	
118 Benzyl chloride	91	11.015	11.015	0.000	98	142717	20.0	22.7	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	293221	20.0	23.2	
120 p-Diethylbenzene	119	11.097	11.097	0.000	93	175105	20.0	23.3	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	166361	20.0	23.9	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	150145	20.0	21.9	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	259075	20.0	22.1	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	92	13411	20.0	22.1	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	120537	20.0	22.6	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	102474	20.0	21.6	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	95	46750	20.0	20.8	
128 Naphthalene	128	12.314	12.314	0.000	99	224288	20.0	22.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	94	94528	20.0	20.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.6	
S 131 Xylenes, Total	100				0		40.0	42.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

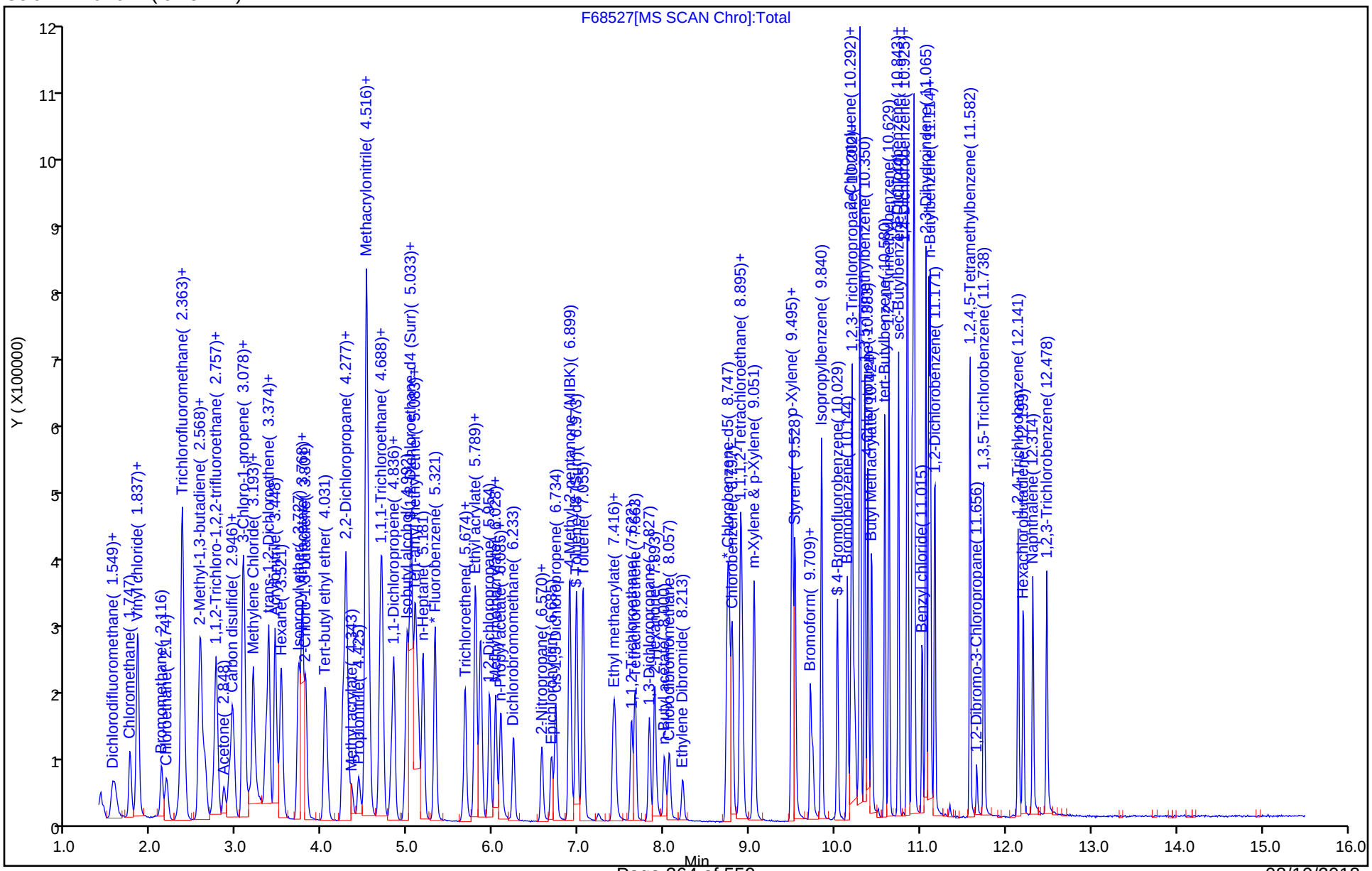
Report Date: 01-Aug-2018 09:20:17 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68527.D

Injection Date:	01-Aug-2018 06:54:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

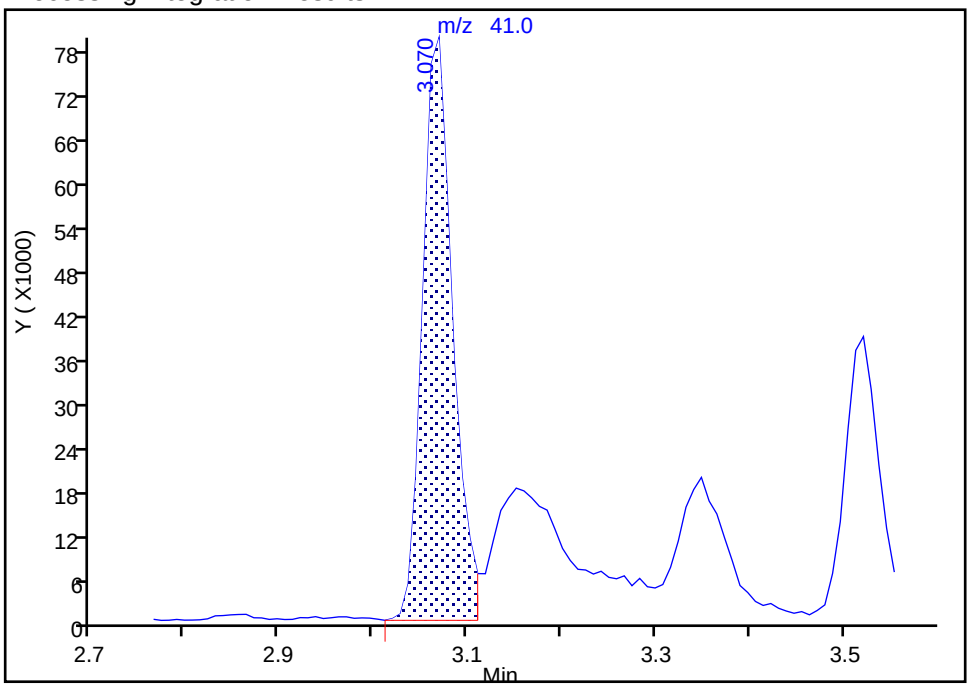
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68527.D
Injection Date: 01-Aug-2018 06:54:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

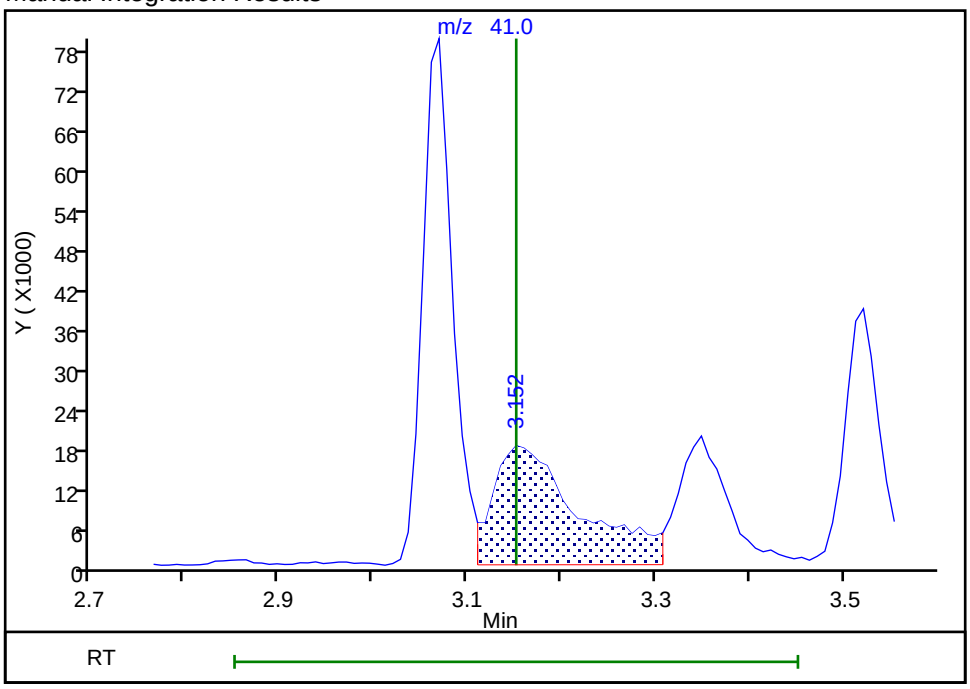
Processing Integration Results

RT: 3.07
Area: 176453
Amount: 488.9250
Amount Units: ug/l



Manual Integration Results

RT: 3.15
Area: 115431
Amount: 319.8421
Amount Units: ug/l



Reviewer: moroneyc, 01-Aug-2018 07:16:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	08-May-2018 12:17:30	ALS Bottle#:	1	Worklist Smp#:	4
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0071332-004				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	09-May-2018 10:46:48	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK007				
First Level Reviewer: cwiklinc		Date:	09-May-2018 10:46:48		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.339	5.339	0.000	0	186108	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

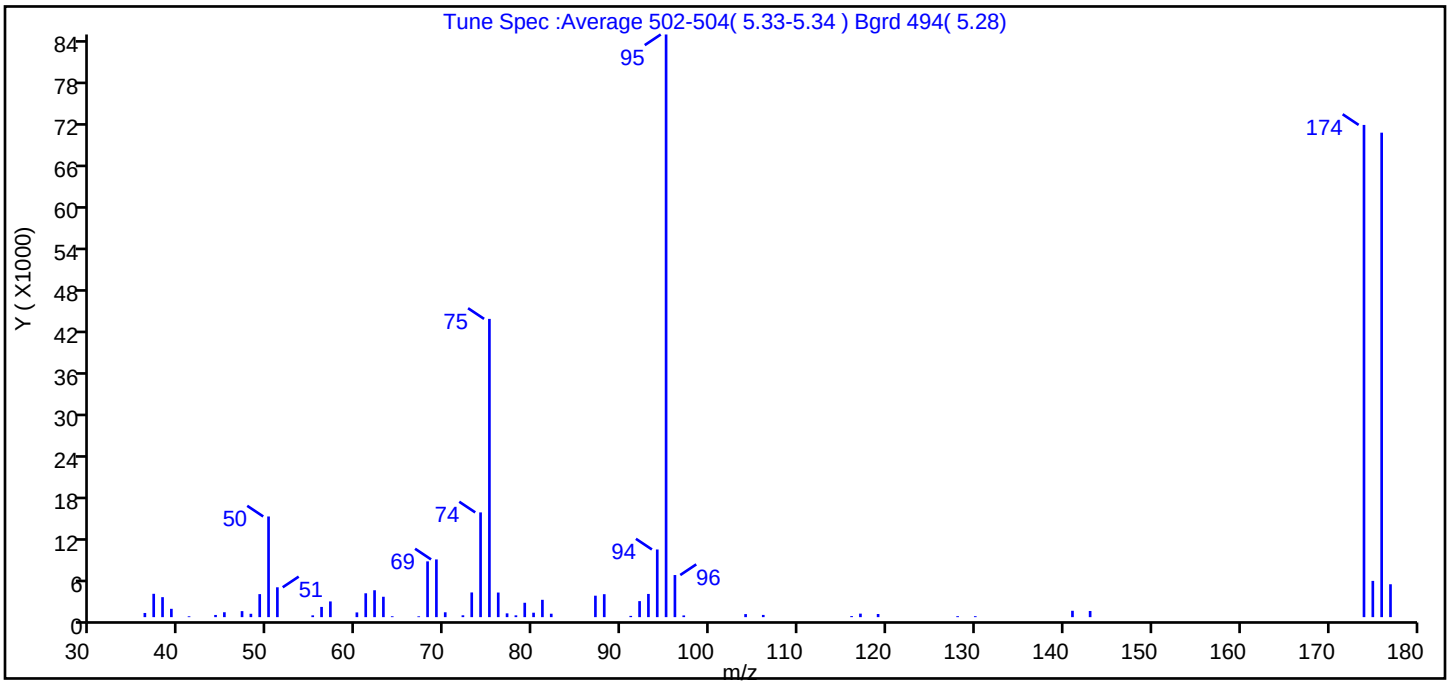
BFB_WRK_00069 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D
Injection Date: 08-May-2018 12:17:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.3
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.5
175	5 to 9% of m/z 174	6.2 (7.4)
176	Greater than 95% but less than 101% of m/z 174	83.1 (98.4)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2156.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 08-May-2018 12:17:30
Spectrum: Tune Spec :Average 502-504(5.33-5.34) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 57

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	607	60.00	688	78.00	263	106.00	324
37.00	3399	61.00	3473	79.00	2093	116.00	151
38.00	2910	62.00	3915	80.00	645	117.00	512
39.00	1213	63.00	2967	81.00	2524	119.00	457
41.00	122	64.00	127	82.00	500	128.00	139
44.00	318	67.00	117	87.00	3123	130.00	138
45.00	714	68.00	8121	88.00	3343	141.00	927
47.00	876	69.00	8405	91.00	184	143.00	896
48.00	490	70.00	708	92.00	2334	174.00	71664
49.00	3351	72.00	269	93.00	3379	175.00	5278
50.00	14657	73.00	3596	94.00	9852	176.00	70536
51.00	4347	74.00	15251	95.00	84832	177.00	4789
55.00	261	75.00	43424	96.00	6131		
56.00	1488	76.00	3582	97.00	249		
57.00	2289	77.00	552	104.00	445		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4180.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Aug-2018 09:18:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0073600-002				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	02-Aug-2018 17:21:46	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: cwiklinc		Date:	02-Aug-2018 09:16:40		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.339	5.339	0.000	0	67741	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

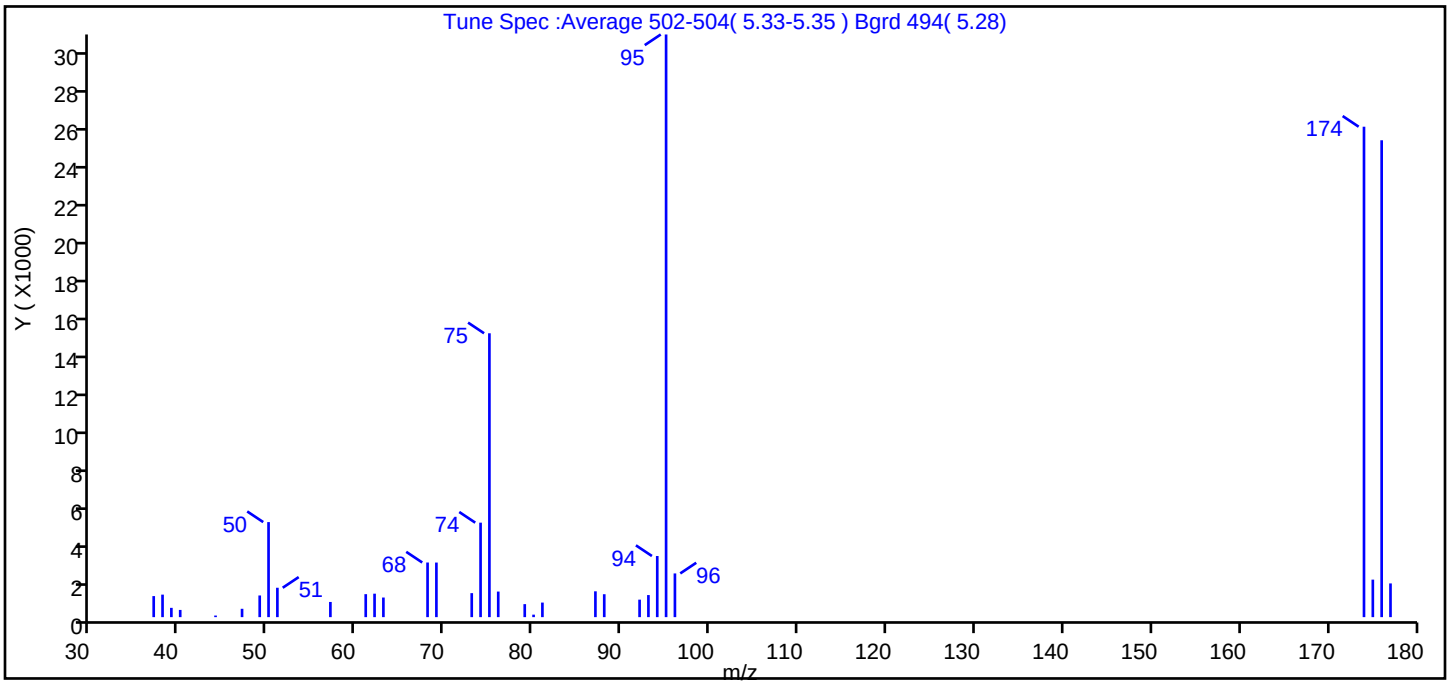
BFB_WRK_00072 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4180.D
Injection Date: 02-Aug-2018 09:18:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.3
75	30 to 60% of m/z 95	48.7
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	84.2
175	5 to 9% of m/z 174	6.4 (7.6)
176	Greater than 95% but less than 101% of m/z 174	81.8 (97.2)
177	5 to 9% of m/z 176	5.8 (7.1)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4180.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 02-Aug-2018 09:18:30
Spectrum: Tune Spec :Average 502-504(5.33-5.35) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 33

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1094	57.00	789	76.00	1329	95.00	30272
38.00	1170	61.00	1194	79.00	676	96.00	2271
39.00	483	62.00	1219	80.00	130	174.00	25480
40.00	375	63.00	1019	81.00	757	175.00	1949
44.00	83	68.00	2839	87.00	1342	176.00	24776
47.00	434	69.00	2836	88.00	1191	177.00	1752
49.00	1126	73.00	1247	92.00	909		
50.00	4938	74.00	4909	93.00	1147		
51.00	1527	75.00	14748	94.00	3176		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4207.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	02-Aug-2018 21:30:30	ALS Bottle#:	2	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0073626-002				
Operator ID:	AEM	Instrument ID:	HP5973F		
Method:	\\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	02-Aug-2018 21:29:33	Calib Date:	08-May-2018 19:07:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK024				
First Level Reviewer: milligana		Date:	02-Aug-2018 21:29:33		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.345	5.345	0.000	0	141707	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

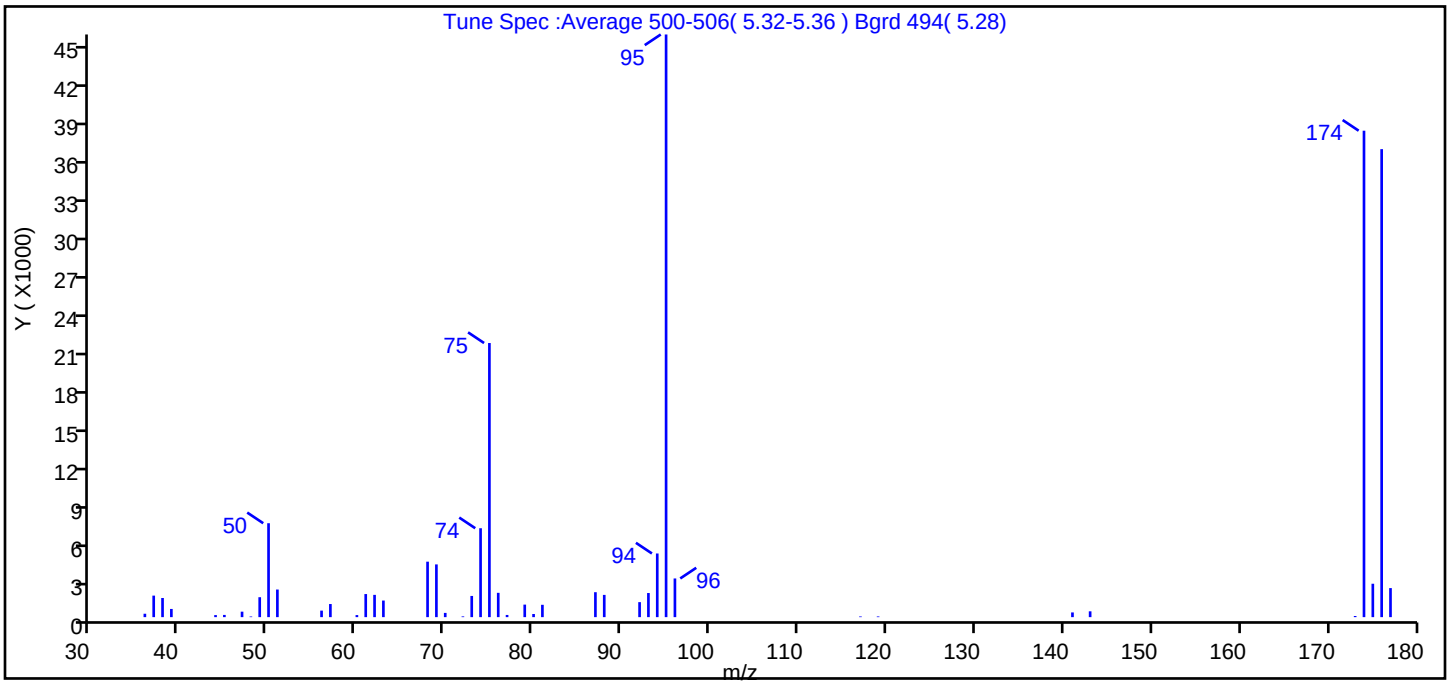
BFB_WRK_00072 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4207.D
Injection Date: 02-Aug-2018 21:30:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: AEM ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.1
75	30 to 60% of m/z 95	47.0
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.2 (0.2)
174	50 to 120% of m/z 95	83.5
175	5 to 9% of m/z 174	5.7 (6.9)
176	Greater than 95% but less than 101% of m/z 174	80.3 (96.2)
177	5 to 9% of m/z 176	5.0 (6.2)

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73626.b\F4207.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 02-Aug-2018 21:30:30
Spectrum: Tune Spec :Average 500-506(5.32-5.36) Bgrd 494(5.28)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	266	57.00	1024	76.00	1898	117.00	53
37.00	1680	60.00	161	77.00	171	119.00	54
38.00	1495	61.00	1802	79.00	978	141.00	368
39.00	640	62.00	1739	80.00	245	143.00	455
44.00	160	63.00	1296	81.00	964	173.00	89
45.00	173	68.00	4330	87.00	1947	174.00	37976
47.00	428	69.00	4117	88.00	1737	175.00	2608
48.00	50	70.00	331	92.00	1171	176.00	36536
49.00	1556	72.00	58	93.00	1883	177.00	2268
50.00	7332	73.00	1655	94.00	4970		
51.00	2156	74.00	6941	95.00	45488		
56.00	510	75.00	21400	96.00	3020		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Jul-2018 07:26:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075068-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:37:29 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.408	3.408	0.000	91	42762	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

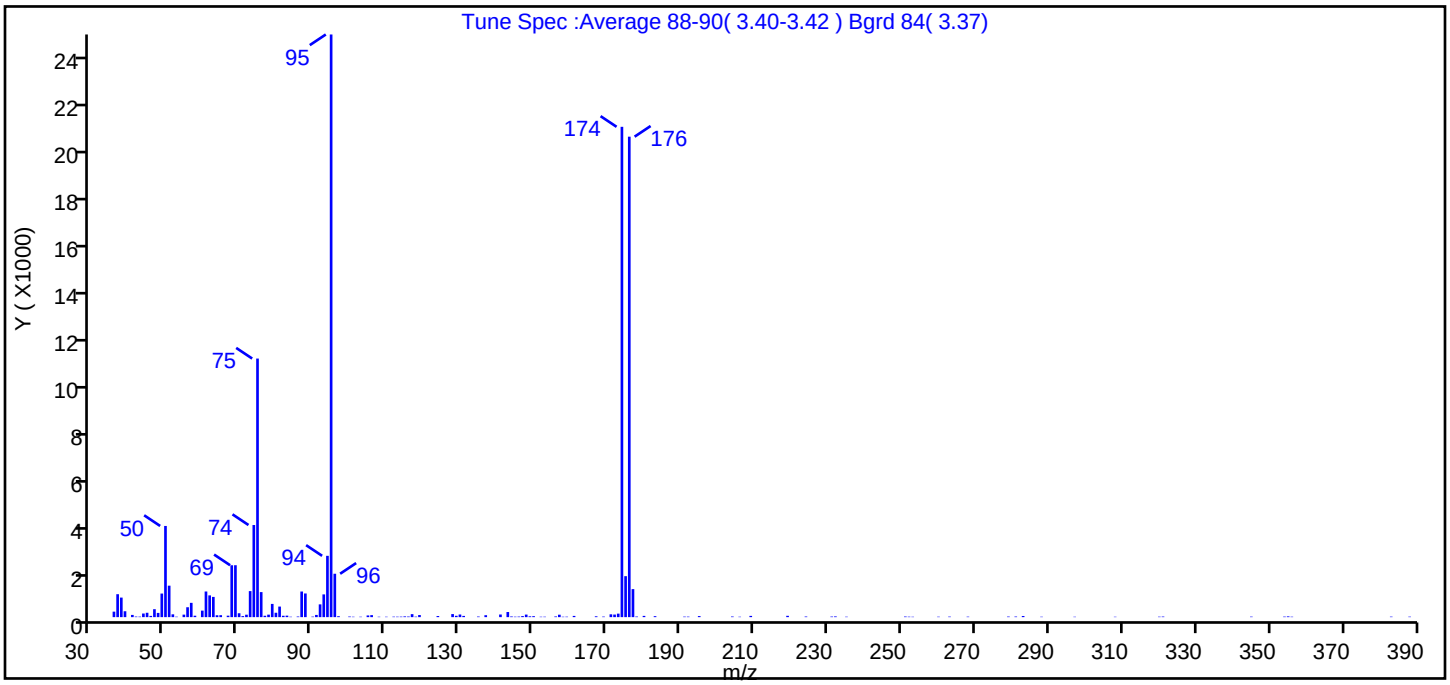
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Injection Date: 08-Jul-2018 07:26:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.4
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	84.2
175	5 to 9% of m/z 174	7.0 (8.4)
176	Greater than 95% but less than 101% of m/z 174	82.5 (98.0)
177	5 to 9% of m/z 176	4.8 (5.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	228	75.00	10708	119.00	87	183.00	40
37.00	950	76.00	1037	124.00	46	191.00	21
38.00	810	77.00	57	128.00	127	192.00	21
39.00	244	78.00	103	129.00	56	195.00	44
41.00	92	79.00	548	130.00	109	204.00	26
42.00	24	80.00	182	131.00	51	206.00	17
43.00	21	81.00	438	135.00	25	209.00	52
44.00	150	82.00	57	137.00	80	219.00	55
45.00	181	83.00	62	141.00	109	224.00	26
46.00	52	84.00	17	143.00	212	231.00	24
47.00	329	86.00	26	144.00	28	232.00	30
48.00	175	87.00	1061	145.00	19	235.00	18
49.00	977	88.00	980	146.00	23	251.00	25
50.00	3776	90.00	22	147.00	43	252.00	19
51.00	1303	91.00	92	148.00	106	253.00	16
52.00	117	92.00	529	149.00	34	260.00	18
53.00	18	93.00	942	150.00	40	263.00	22
55.00	104	94.00	2539	152.00	17	268.00	20
56.00	410	95.00	24128	153.00	18	279.00	24
57.00	592	96.00	1797	156.00	29	281.00	25
58.00	59	97.00	38	157.00	101	283.00	46
60.00	270	100.00	25	158.00	17	288.00	17
61.00	1062	101.00	17	159.00	19	297.00	16
62.00	901	103.00	17	161.00	51	308.00	16
63.00	838	105.00	70	167.00	35	320.00	19
64.00	78	106.00	83	169.00	23	321.00	24
65.00	81	108.00	17	171.00	117	345.00	21
67.00	61	110.00	17	172.00	107	354.00	22
68.00	2148	112.00	20	173.00	145	355.00	31
69.00	2150	113.00	19	174.00	20304	356.00	18
70.00	161	114.00	21	175.00	1697	383.00	21
71.00	43	115.00	31	176.00	19896	388.00	20
72.00	101	116.00	25	177.00	1161		

Report Date: 08-Jul-2018 18:37:29 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1078	117.00	124	178.00	25		
74.00	3815	118.00	20	180.00	52		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68501.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 31-Jul-2018 18:35:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0076414-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 11:05:23 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: kaewink Date: 01-Aug-2018 11:05:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.383	3.383	0.000	82	54469	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

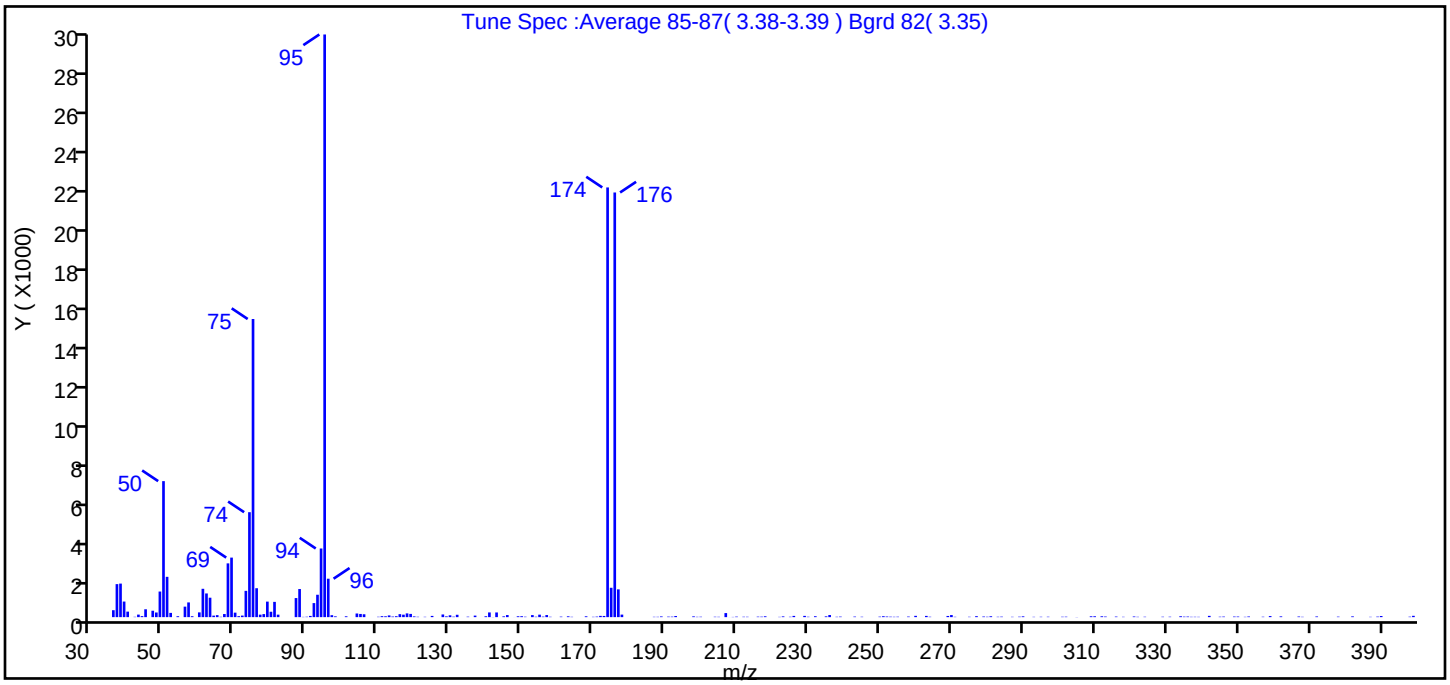
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68501.D
Injection Date: 31-Jul-2018 18:35:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	23.3
75	30 to 60% of m/z 95	51.2
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	73.7
175	5 to 9% of m/z 174	5.0 (6.8)
176	Greater than 95% but less than 101% of m/z 174	72.9 (98.8)
177	5 to 9% of m/z 176	4.8 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68501.D\8260624W6.rslt\spectra.d
Injection Date: 31-Jul-2018 18:35:30
Spectrum: Tune Spec :Average 85-87(3.38-3.39) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	352	97.00	99	175.00	1490	279.00	31
37.00	1675	98.00	40	176.00	21544	280.00	20
38.00	1702	101.00	43	177.00	1409	281.00	45
39.00	791	104.00	185	178.00	129	283.00	19
40.00	280	105.00	162	187.00	17	284.00	25
42.00	17	106.00	146	188.00	17	287.00	17
43.00	129	110.00	19	189.00	36	289.00	23
44.00	52	111.00	49	191.00	26	290.00	40
45.00	399	112.00	43	192.00	25	293.00	16
47.00	325	113.00	87	193.00	57	295.00	19
48.00	236	114.00	30	198.00	39	297.00	21
49.00	1299	115.00	47	199.00	17	301.00	20
50.00	6900	116.00	152	200.00	21	302.00	23
51.00	2045	117.00	126	204.00	20	305.00	7
52.00	216	118.00	190	205.00	17	309.00	43
54.00	46	119.00	164	207.00	206	310.00	44
56.00	533	120.00	37	208.00	2	312.00	43
57.00	747	121.00	19	209.00	11	313.00	30
58.00	46	123.00	17	210.00	26	316.00	29
60.00	241	125.00	63	212.00	20	318.00	17
61.00	1438	128.00	136	213.00	19	321.00	33
62.00	1202	129.00	39	216.00	25	322.00	17
63.00	986	130.00	93	217.00	24	324.00	20
64.00	77	131.00	24	218.00	43	329.00	21
65.00	102	132.00	120	222.00	14	331.00	22
66.00	17	135.00	24	223.00	38	334.00	45
67.00	158	137.00	78	225.00	19	335.00	25
68.00	2728	140.00	45	226.00	63	336.00	30
69.00	3021	141.00	239	229.00	64	337.00	17
70.00	228	142.00	6	230.00	20	338.00	18
71.00	50	143.00	238	232.00	46	339.00	16
72.00	79	145.00	40	235.00	40	342.00	65
73.00	1334	146.00	106	236.00	107	345.00	22

Report Date: 01-Aug-2018 11:05:23 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68501.D\8260624W6.rslt\spectra.d
Injection Date: 31-Jul-2018 18:35:30
Spectrum: Tune Spec :Average 85-87(3.38-3.39) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 207

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	5324	148.00	2	238.00	18	346.00	28
75.00	15125	149.00	44	239.00	27	349.00	29
76.00	1467	150.00	47	243.00	28	350.00	30
77.00	127	151.00	22	245.00	20	352.00	16
78.00	155	153.00	104	250.00	25	353.00	33
79.00	788	154.00	21	251.00	46	357.00	21
80.00	274	155.00	126	252.00	31	359.00	54
81.00	775	156.00	27	253.00	23	362.00	39
82.00	126	157.00	106	254.00	18	367.00	32
87.00	968	158.00	19	255.00	22	368.00	17
88.00	1426	161.00	26	258.00	29	372.00	35
89.00	13	163.00	42	260.00	66	378.00	25
90.00	20	164.00	17	263.00	63	382.00	39
91.00	62	168.00	43	264.00	20	387.00	16
92.00	713	170.00	17	269.00	60	389.00	27
93.00	1136	171.00	27	270.00	105	390.00	57
94.00	3483	172.00	65	271.00	17	398.00	23
95.00	29560	173.00	60	275.00	19	399.00	67
96.00	1950	174.00	21800	277.00	49		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68525.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 01-Aug-2018 06:08:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0076436-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 09:20:08 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.392	3.392	0.000	81	65312	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

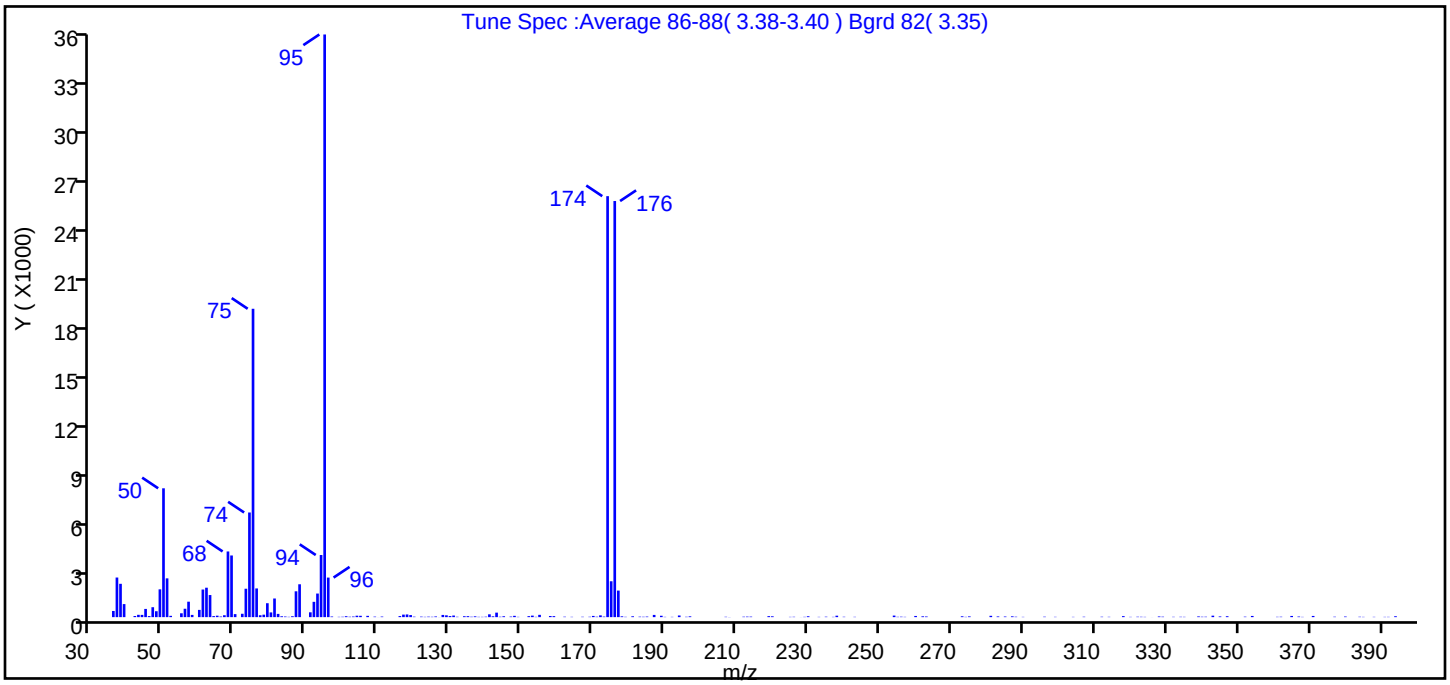
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68525.D
Injection Date: 01-Aug-2018 06:08:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.1
75	30 to 60% of m/z 95	52.9
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.1 (0.1)
174	50 to 120% of m/z 95	72.3
175	5 to 9% of m/z 174	6.2 (8.5)
176	Greater than 95% but less than 101% of m/z 174	71.4 (98.8)
177	5 to 9% of m/z 176	4.6 (6.4)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68525.D\8260624W6.rslt\spectra.d
Injection Date: 01-Aug-2018 06:08:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	375	94.00	3778	158.00	68	262.00	50
37.00	2409	95.00	35432	159.00	61	263.00	40
38.00	2027	96.00	2406	162.00	27	273.00	52
39.00	794	97.00	38	164.00	19	274.00	17
42.00	69	99.00	19	167.00	23	275.00	46
43.00	142	100.00	24	169.00	23	281.00	81
44.00	137	101.00	57	170.00	74	283.00	43
45.00	500	102.00	25	171.00	27	285.00	38
46.00	64	103.00	37	172.00	108	287.00	49
47.00	604	104.00	87	173.00	33	288.00	26
48.00	360	105.00	82	174.00	25600	290.00	17
49.00	1691	107.00	79	175.00	2182	296.00	27
50.00	7835	109.00	31	176.00	25304	299.00	19
51.00	2358	110.00	3	177.00	1615	304.00	17
52.00	80	111.00	35	178.00	49	307.00	25
55.00	235	116.00	65	179.00	20	312.00	25
56.00	511	117.00	154	181.00	52	314.00	20
57.00	940	118.00	164	183.00	29	318.00	61
58.00	136	119.00	127	184.00	23	320.00	17
60.00	441	120.00	29	185.00	35	322.00	25
61.00	1679	122.00	31	187.00	135	323.00	22
62.00	1790	123.00	19	189.00	84	324.00	17
63.00	1344	124.00	30	190.00	17	326.00	2
64.00	63	125.00	22	192.00	17	328.00	41
65.00	89	126.00	42	194.00	101	329.00	28
66.00	37	127.00	4	196.00	22	332.00	20
67.00	116	128.00	134	197.00	49	334.00	22
68.00	3994	129.00	111	207.00	22	335.00	19
69.00	3750	130.00	66	208.00	7	339.00	44
70.00	184	131.00	98	212.00	27	340.00	25
72.00	205	132.00	23	213.00	32	341.00	26
73.00	1728	134.00	55	214.00	32	343.00	89
74.00	6364	135.00	59	219.00	60	345.00	43

Report Date: 01-Aug-2018 09:20:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68525.D\8260624W6.rslt\spectra.d
Injection Date: 01-Aug-2018 06:08:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 200

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	18752	136.00	25	220.00	51	347.00	56
76.00	1745	137.00	49	225.00	17	352.00	29
77.00	116	138.00	19	226.00	22	354.00	73
78.00	150	139.00	18	228.00	3	361.00	20
79.00	847	140.00	28	229.00	19	362.00	25
80.00	287	141.00	172	230.00	54	365.00	73
81.00	1134	142.00	50	233.00	17	367.00	37
82.00	198	143.00	274	235.00	28	368.00	16
83.00	52	144.00	25	237.00	17	371.00	73
84.00	37	145.00	54	238.00	88	377.00	26
85.00	19	147.00	35	240.00	23	380.00	37
86.00	55	148.00	80	243.00	19	384.00	24
87.00	1572	149.00	18	254.00	95	385.00	17
88.00	1999	152.00	60	255.00	20	388.00	18
91.00	294	153.00	93	256.00	27	391.00	17
92.00	931	154.00	18	257.00	18	392.00	18
93.00	1435	155.00	140	260.00	72	394.00	55

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-427697/2-A

Matrix: Solid | Lab File ID: F4188.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/02/2018 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
98-82-8	Isopropylbenzene	ND		5.0	0.75
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-427697/2-A

Matrix: Solid | Lab File ID: F4188.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/02/2018 12:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		64-126
460-00-4	4-Bromofluorobenzene (Surr)	93		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	94		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4188.D
Lims ID: MB 480-427697/2-A
Client ID:
Sample Type: MB
Inject. Date: 02-Aug-2018 12:59:30 ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB 480-427697/2-A
Misc. Info.: 480-0073600-010
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 17:36:52 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: cwiklinc Date: 02-Aug-2018 13:33:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.196	5.197	-0.001	99	292062	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	591604	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.355	10.356	-0.001	95	521353	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.679	4.680	-0.001	93	336237	50.0	46.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.959	4.960	-0.001	97	227470	50.0	49.0	
$ 5 Toluene-d8 (Surr)	98	6.559	6.560	-0.001	93	1376049	50.0	50.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	430427	50.0	46.7	
10 Dichlorodifluoromethane	85		1.808					ND	
11 Chlorodifluoromethane	51		1.827					ND	
12 Chloromethane	50		1.997					ND	
13 Vinyl chloride	62		2.076					ND	
151 Butadiene	54		2.100					ND	
14 Bromomethane	94		2.368					ND	
15 Chloroethane	64		2.429					ND	
16 Dichlorofluoromethane	67		2.581					ND	
17 Trichlorofluoromethane	101		2.611					ND	
148 Ethanol	45		2.745					ND	
18 Ethyl ether	59		2.776					ND	
19 Propene oxide	58		2.867					ND	
20 Acrolein	56		2.928					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		2.964					ND	
22 1,1-Dichloroethene	96		2.982					ND	
23 Acetone	43		3.037					ND	
24 Isopropyl alcohol	45		3.122					ND	
25 Iodomethane	142		3.134					ND	
26 Carbon disulfide	76		3.189					ND	
28 3-Chloro-1-propene	41		3.250					ND	
27 Methyl acetate	43		3.250					ND	
29 Acetonitrile	40		3.281					ND	
30 Methylene Chloride	84		3.360					ND	
31 2-Methyl-2-propanol	59		3.414					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.512					ND	
34 trans-1,2-Dichloroethene	96		3.542					ND	
33 Acrylonitrile	53		3.554					ND	
35 Hexane	57	3.676	3.676	0.000	93	9802		0.7170	
71 Epichlorohydrin	57		3.682					ND	U
134 Halothane	117		3.828					ND	
36 Isopropyl ether	45		3.828					ND	
37 Vinyl acetate	43		3.852					ND	
39 1,1-Dichloroethane	63		3.864					ND	
38 1,1-Dimethoxyethane	75		3.901					ND	
40 2-Chloro-1,3-butadiene	53		3.913					ND	
41 Tert-butyl ethyl ether	59		4.102					ND	
44 2,2-Dichloropropane	77		4.296					ND	
43 2-Butanone (MEK)	43		4.296					ND	
42 Ethyl acetate	43		4.296					ND	
45 cis-1,2-Dichloroethene	96		4.309					ND	
46 Propionitrile	54		4.388					ND	
47 Methacrylonitrile	41		4.485					ND	
48 Chlorobromomethane	128		4.509					ND	
49 Tetrahydrofuran	42		4.528					ND	
50 Chloroform	83	4.552	4.552	0.006	84	2684		0.1729	Ma
51 1,1,1-Trichloroethane	97		4.686					ND	
52 Cyclohexane	56		4.716					ND	
54 1,1-Dichloropropene	75		4.801					ND	
55 Carbon tetrachloride	117		4.814					ND	
53 Isobutyl alcohol	43		4.868					ND	
147 t-Amyl alcohol	59		4.941					ND	
152 Isooctane	57		4.954					ND	
57 Benzene	78		4.984					ND	
56 Tert-amyl methyl ether	73		5.002					ND	
58 1,2-Dichloroethane	62		5.020					ND	U
59 n-Heptane	43		5.081					ND	
1 1,4-Difluorobenzene	114		5.264					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.385					ND	
60 n-Butanol	56		5.404					ND	
62 Trichloroethene	95		5.501					ND	
137 Ethyl acrylate	55		5.568					ND	
135 2,4,4-Trimethyl-2-pentene	97		5.574					ND	
64 Methylcyclohexane	83		5.635					ND	
65 1,2-Dichloropropane	63		5.714					ND	
63 Methyl methacrylate	41		5.732					ND	
66 1,4-Dioxane	88		5.823					ND	
67 Dibromomethane	93		5.848					ND	
68 Dichlorobromomethane	83		5.957					ND	
69 2-Chloroethyl vinyl ether	63		6.164					ND	
70 2-Nitropropane	43		6.164					ND	
72 cis-1,3-Dichloropropene	75		6.334					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.438					ND	
74 Toluene	92		6.620					ND	
76 2-Methylthiophene	97		6.754					ND	
77 trans-1,3-Dichloropropene	75		6.845					ND	
75 Ethyl methacrylate	69		6.852					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		6.906					ND	
79 1,1,2-Trichloroethane	83		7.040					ND	
81 Tetrachloroethene	166		7.144					ND	
82 1,3-Dichloropropane	76		7.204					ND	
80 2-Hexanone	43		7.223					ND	
155 n-Butyl acetate	43		7.302					ND	
83 Chlorodibromomethane	129		7.442					ND	
84 Ethylene Dibromide	107		7.569					ND	
146 1-Chlorohexane	55		7.922					ND	
85 3-Chlorobenzotrifluoride	180		7.928					ND	
86 4-Chlorobenzotrifluoride	180		7.989					ND	
87 Chlorobenzene	112		8.020					ND	
88 Ethylbenzene	91		8.086					ND	
89 1,1,1,2-Tetrachloroethane	131		8.099					ND	
90 m-Xylene & p-Xylene	106		8.202					ND	
91 o-Xylene	106		8.634					ND	
92 Styrene	104		8.652					ND	
93 2-Chlorobenzotrifluoride	180		8.914					ND	
95 Bromoform	173		8.926					ND	
94 Isopropylbenzene	105		8.999					ND	
96 Cyclohexanone	55		9.200					ND	
101 Bromobenzene	156		9.388					ND	
97 1,1,2,2-Tetrachloroethane	83		9.388					ND	
98 trans-1,4-Dichloro-2-buten	53		9.437					ND	
99 N-Propylbenzene	91		9.437					ND	
100 1,2,3-Trichloropropane	110		9.443					ND	
103 2-Chlorotoluene	126		9.565					ND	
102 1,3,5-Trimethylbenzene	105		9.607					ND	
104 3-Chlorotoluene	126		9.626					ND	
105 4-Chlorotoluene	126		9.674					ND	
106 tert-Butylbenzene	134		9.930					ND	
107 1,2,4-Trimethylbenzene	105		9.985					ND	
108 Pentachloroethane	167		10.009					ND	
109 sec-Butylbenzene	105		10.143					ND	
110 4-Isopropyltoluene	119		10.270					ND	
111 1,3-Dichlorobenzene	146		10.295					ND	
114 Dicyclopentadiene	66		10.374					ND	U
113 1,4-Dichlorobenzene	146		10.380					ND	
112 1,2,3-Trimethylbenzene	105		10.398					ND	
150 Benzyl chloride	126		10.514					ND	
115 n-Butylbenzene	91		10.648					ND	
116 1,2-Dichlorobenzene	146		10.733					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.414					ND	
118 1,3,5-Trichlorobenzene	180		11.548					ND	
119 1,2,4-Trichlorobenzene	180		12.053					ND	
120 Hexachlorobutadiene	225		12.144					ND	
121 Naphthalene	128		12.266					ND	
122 1,2,3-Trichlorobenzene	180	12.479	12.479	0.006	84	1722		0.1738	a
149 2-Methylnaphthalene	142	13.282	13.276	0.006	87	2091		0.1304	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	
T 142 1-Bromopropane	1		0.000					ND	
T 138 Aziridine TIC	1		0.000					ND	
T 130 Hexachloroethane	117		0.000					ND	
T 129 tert-amyl alcohol TIC	59		0.000					ND	
T 132 Methyl acrylate	1		0.000					ND	
T 128 Hexachloroethane TIC	1		0.000					ND	
T 131 Nitrobenzene	77		0.000					ND	
T 141 Pentachloroethane TIC	1		0.000					ND	
T 139 Bromoethane TIC	1		0.000					ND	
T 9 bis(2-chloromethyl)ether T	1		0.000					ND	
T 127 Ethanol TIC	45		0.000					ND	
T 140 bis(chloromethyl)ether TIC	1		0.000					ND	
T 7 Ethylene oxide	1		0.000					ND	
T 133 cis-1,4-Dichloro-2-butene	88		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated
U - Marked Undetected
a - User Assigned ID

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

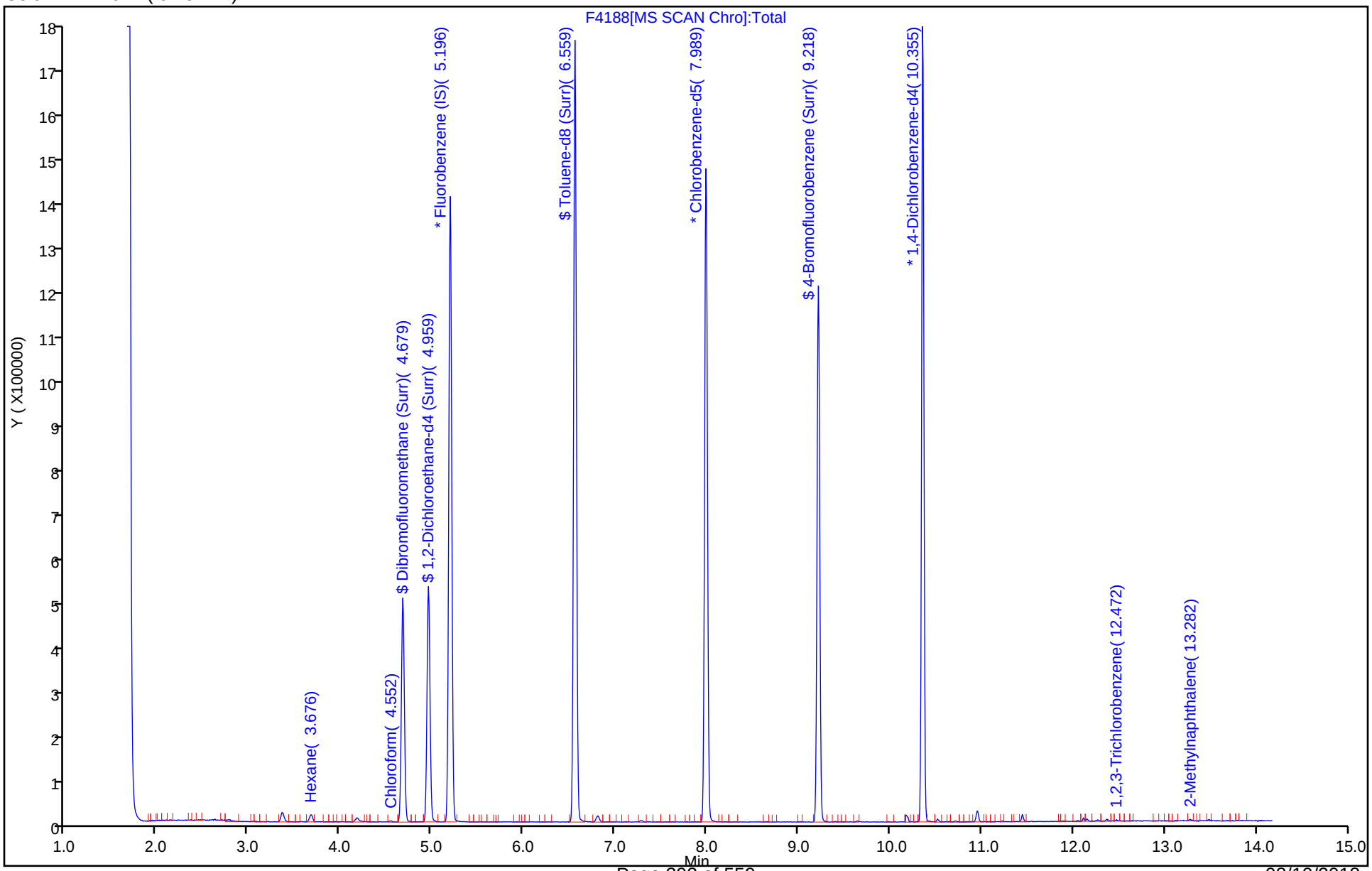
Report Date: 02-Aug-2018 17:36:53 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4188.D

Injection Date:	02-Aug-2018 12:59:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	MB 480-427697/2-A			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



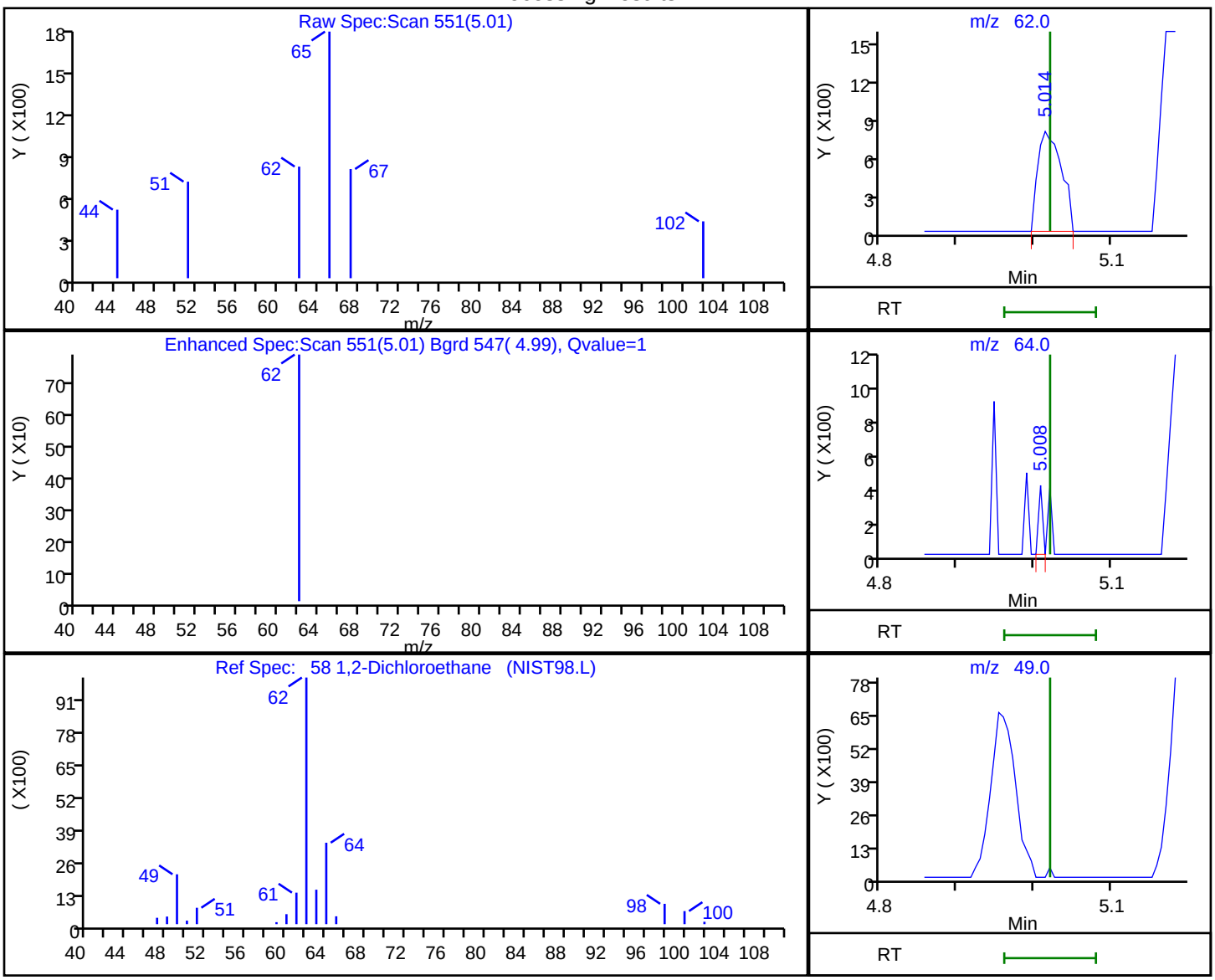
User Disabled Compound Report

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4188.D
Injection Date: 02-Aug-2018 12:59:30 Instrument ID: HP5973F
Lims ID: MB 480-427697/2-A
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

58 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.01	62.00	1681	0.130992
5.01	64.00	146	
5.02	49.00	0	

Reviewer: cwiklinc, 02-Aug-2018 13:33:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

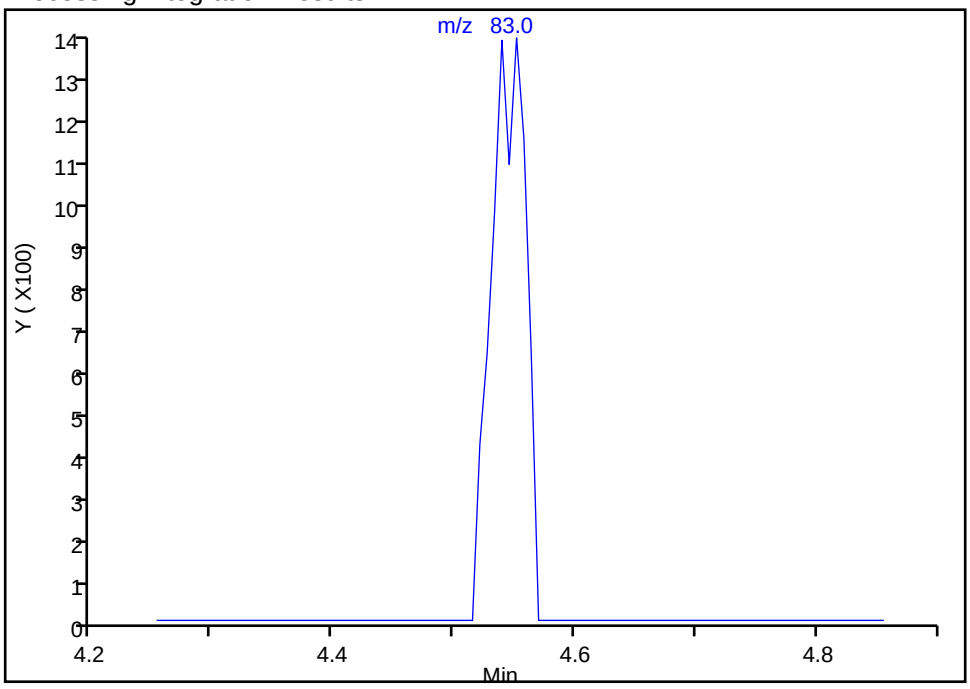
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4188.D
Injection Date: 02-Aug-2018 12:59:30 Instrument ID: HP5973F
Lims ID: MB 480-427697/2-A
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

50 Chloroform, CAS: 67-66-3

Signal: 1

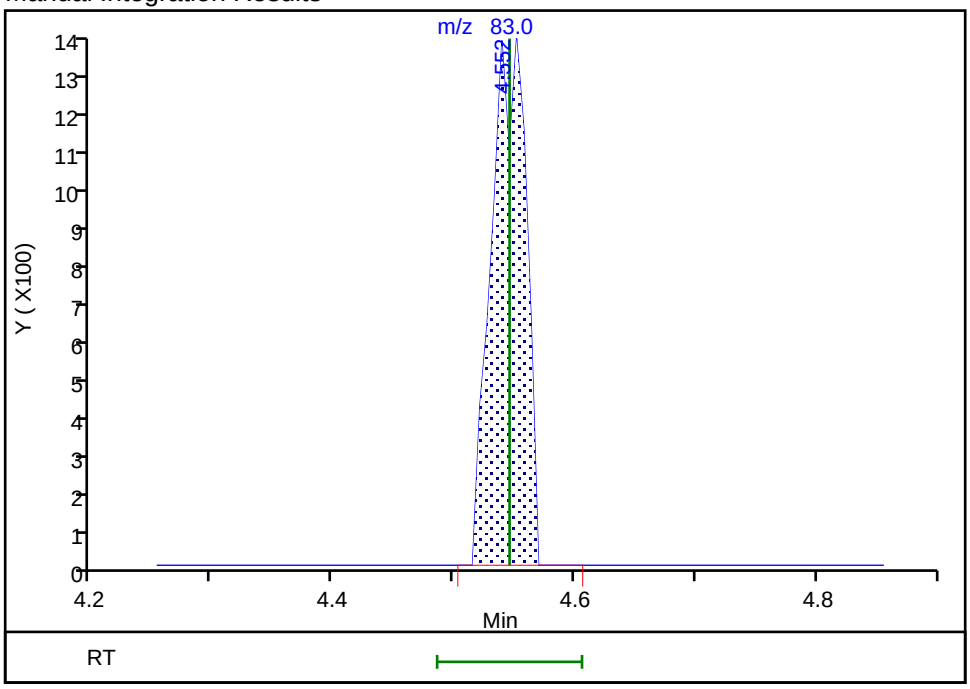
Not Detected
Expected RT: 4.55

Processing Integration Results



Manual Integration Results

RT: 4.55
Area: 2684
Amount: 0.172852
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 17:35:54
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-541118/8

Matrix: Water Lab File ID: F68508.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/31/2018 22:40

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 541118 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-541118/8

Matrix: Water | Lab File ID: F68508.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2018 22:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	98		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68508.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 31-Jul-2018 22:40:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0076414-008
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:53:55 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 11:25:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	99365	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.237	4.236	0.000	0	138030	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	63489	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	75739	50.0	54.9	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	259278	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.020	6.020	0.000	0	6875	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	223199	50.0	49.1	
* 89 Chlorobenzene-d5	117	8.764	8.756	0.008	89	165040	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	86	61792	50.0	46.4	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.900	0.009	97	89611	50.0	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

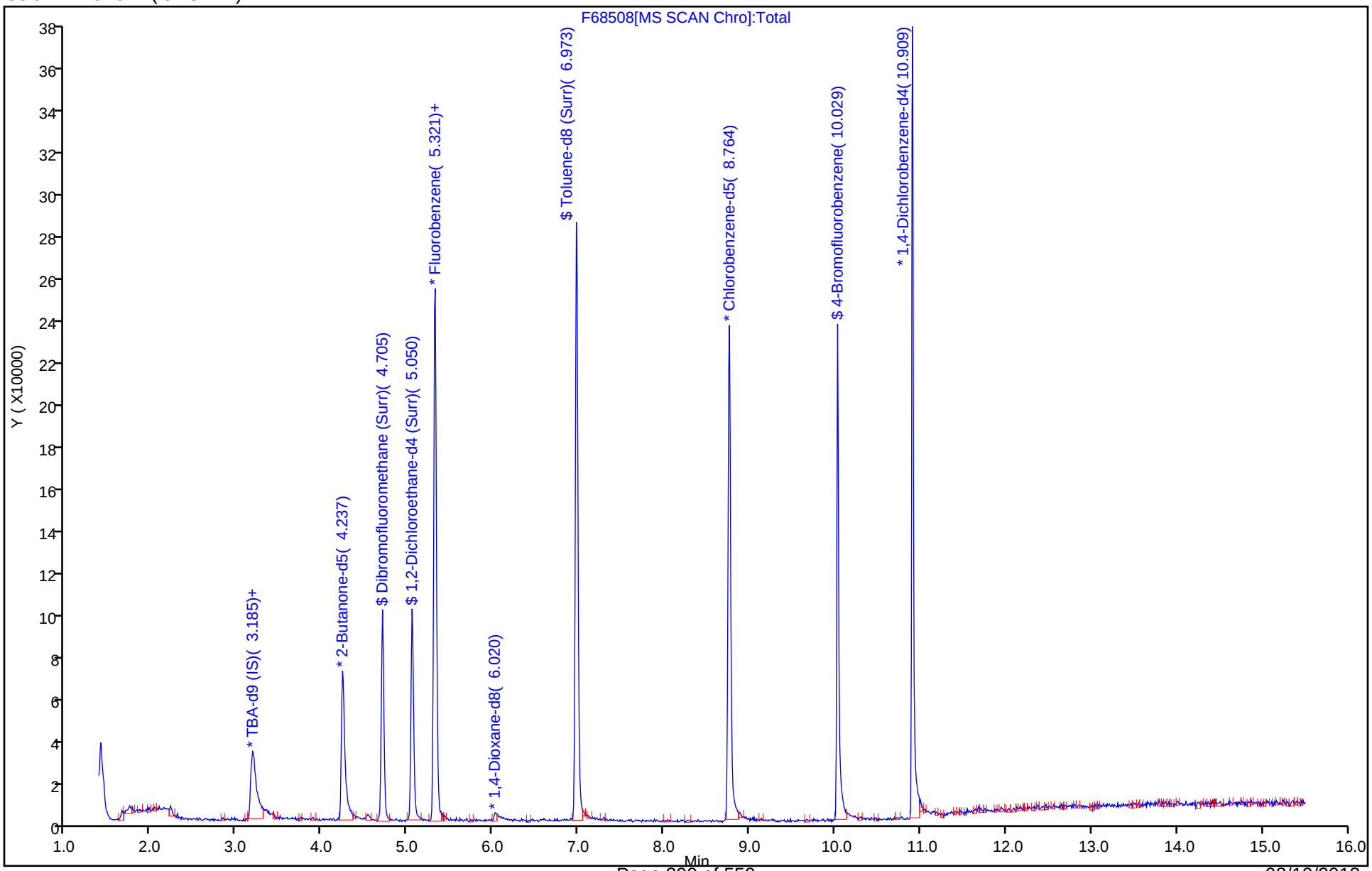
Report Date: 01-Aug-2018 08:54:43 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68508.D

Injection Date:	31-Jul-2018 22:40:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



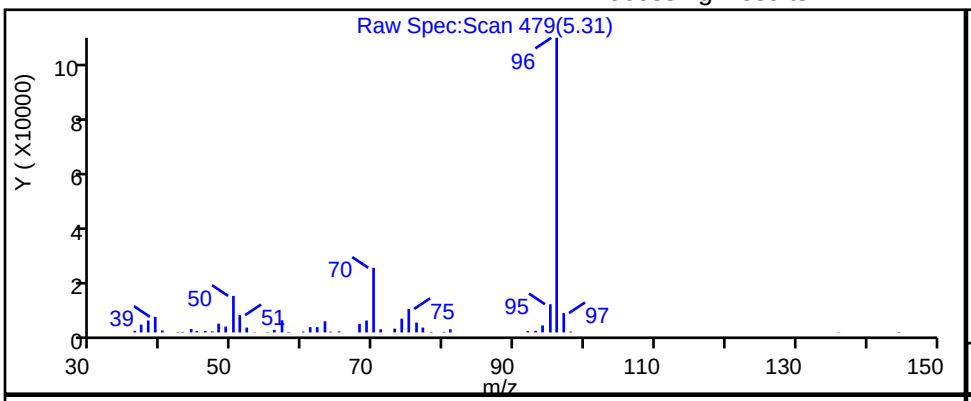
User Disabled Compound Report

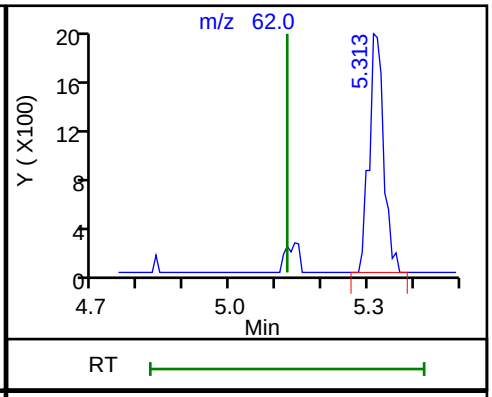
TestAmerica Edison

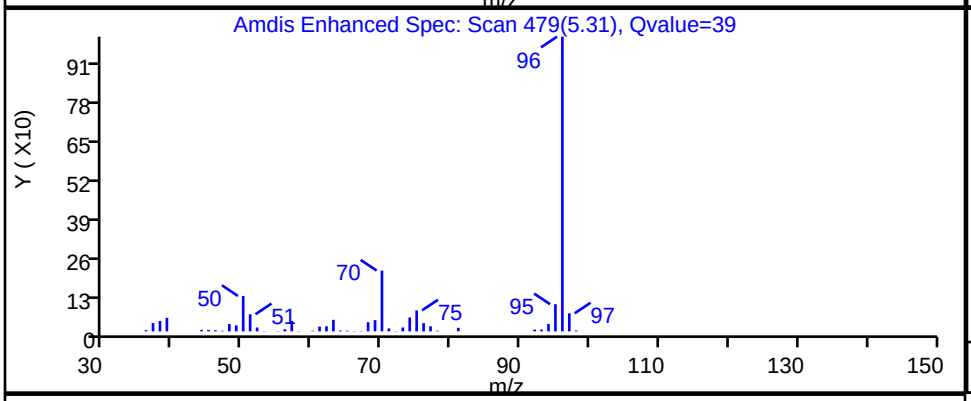
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68508.D
Injection Date: 31-Jul-2018 22:40:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

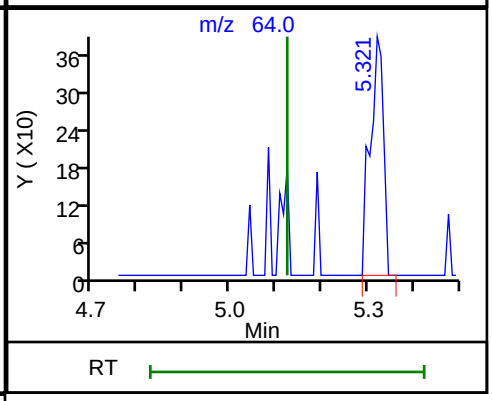
59 1,2-Dichloroethane, CAS: 107-06-2

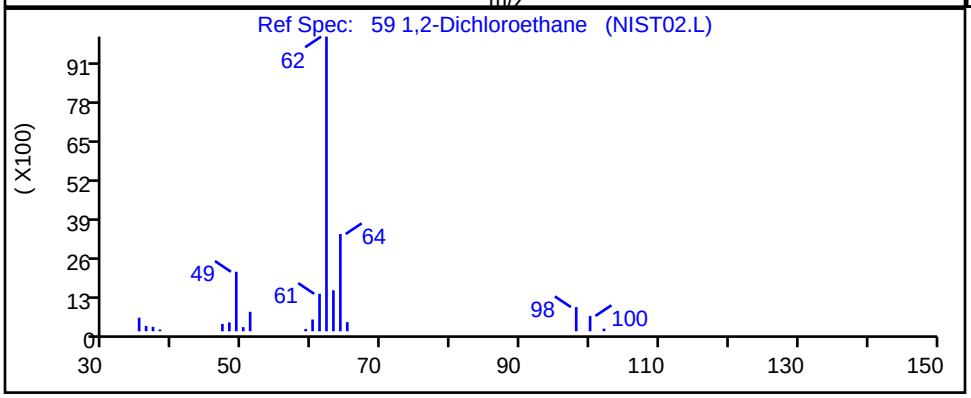
Processing Results











RT	Mass	Response	Amount
5.31	62.00	4275	1.114872
5.32	64.00	783	

Reviewer: kaewink, 01-Aug-2018 11:25:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

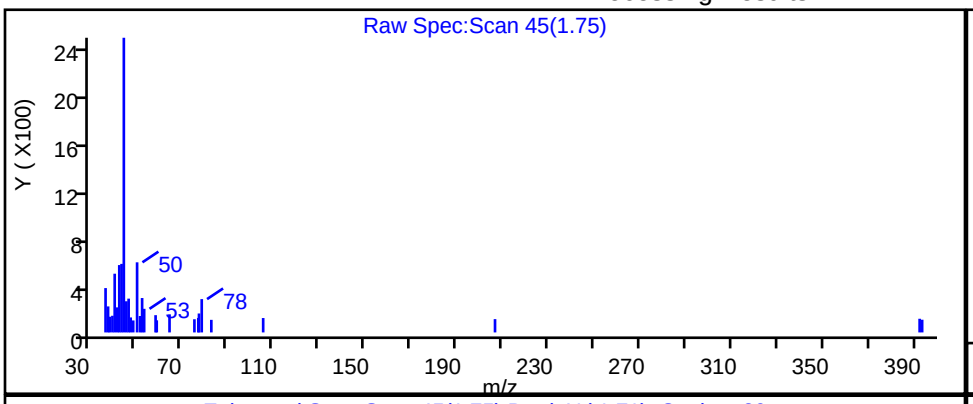
User Disabled Compound Report

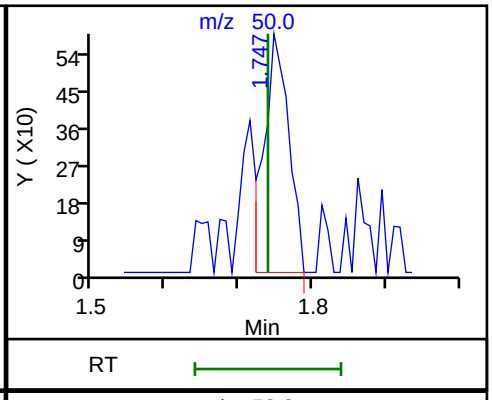
TestAmerica Edison

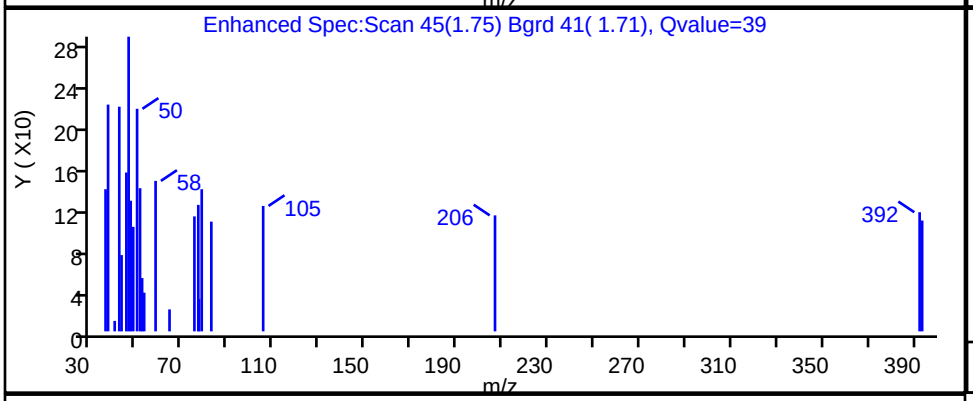
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68508.D
Injection Date: 31-Jul-2018 22:40:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

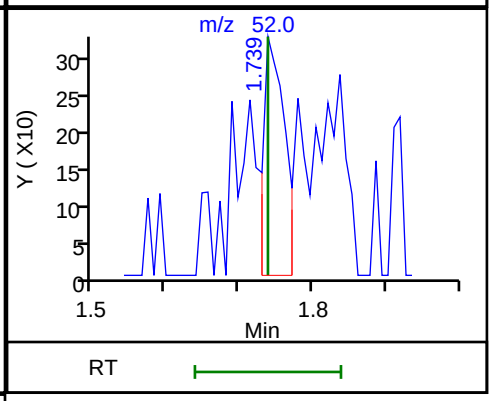
3 Chloromethane, CAS: 74-87-3

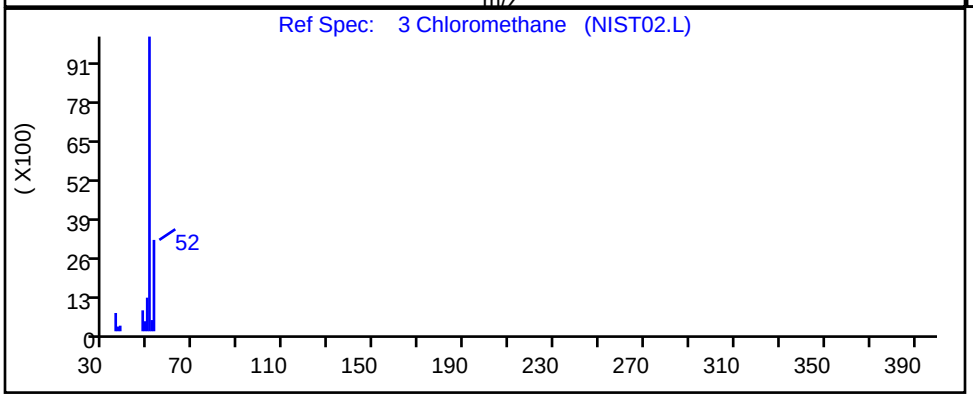
Processing Results











RT	Mass	Response	Amount
1.75	50.00	1385	0.245803
1.74	52.00	645	

Reviewer: kaewink, 01-Aug-2018 11:25:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 460-541225/8

Matrix: Water Lab File ID: F68532.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 08/01/2018 08:53

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 541225 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-541225/8

Matrix: Water | Lab File ID: F68532.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 08:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541225 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		74-132
460-00-4	4-Bromofluorobenzene	89		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68532.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 01-Aug-2018 08:53:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0076436-008
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 12:42:24 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 01-Aug-2018 12:42:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.218	3.209	0.009	0	107474	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	149154	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	67588	50.0	49.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	81243	50.0	56.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	272134	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	6101	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	233062	50.0	49.5	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	89	170782	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	61062	50.0	44.3	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.900	0.009	96	86651	50.0	50.0	

Reagents:

VOA6IS/SURR_00012 Amount Added: 5.00 Units: uL Run Reagent

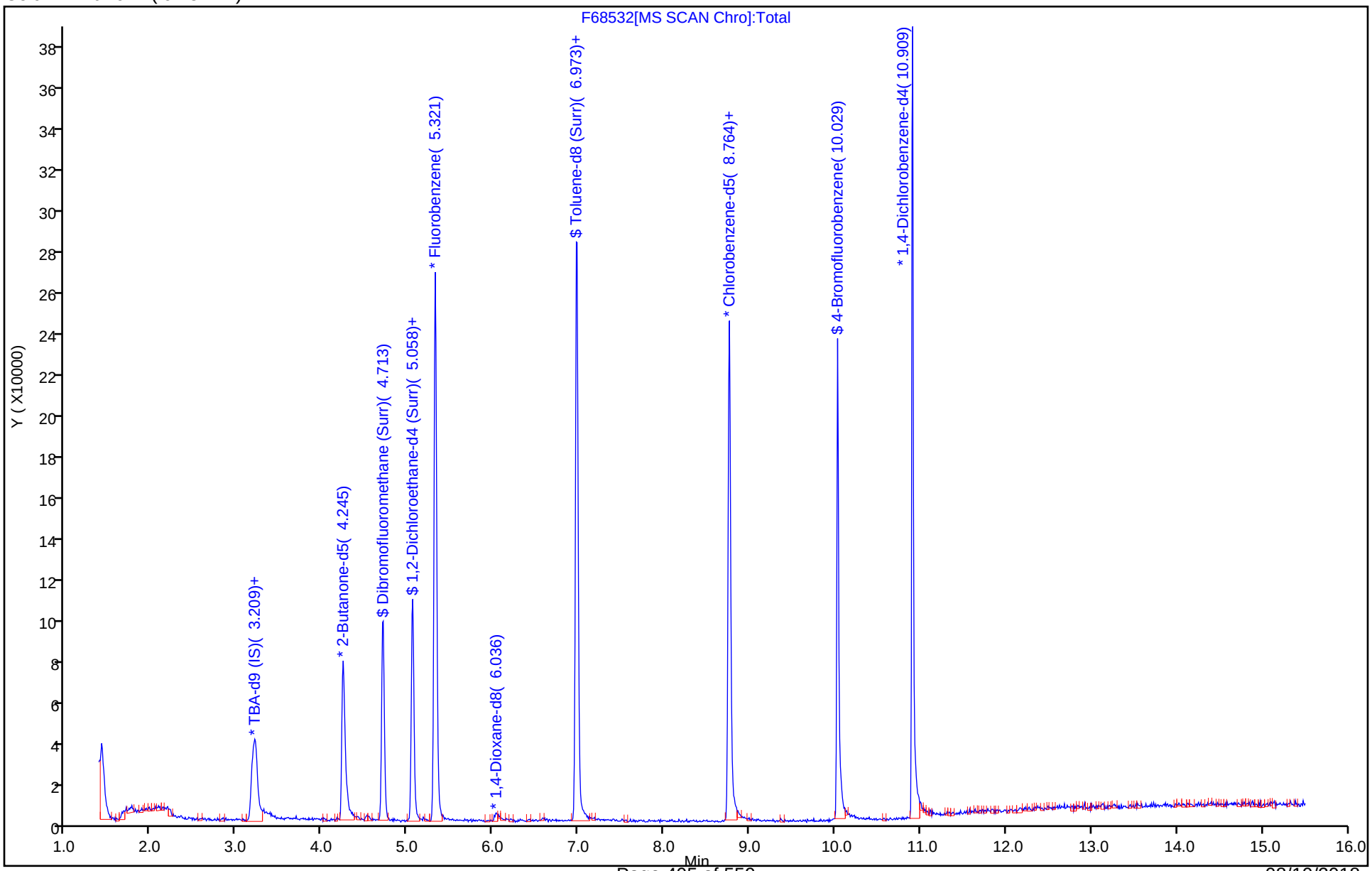
Report Date: 01-Aug-2018 12:42:25 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68532.D

Injection Date:	01-Aug-2018 08:53:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



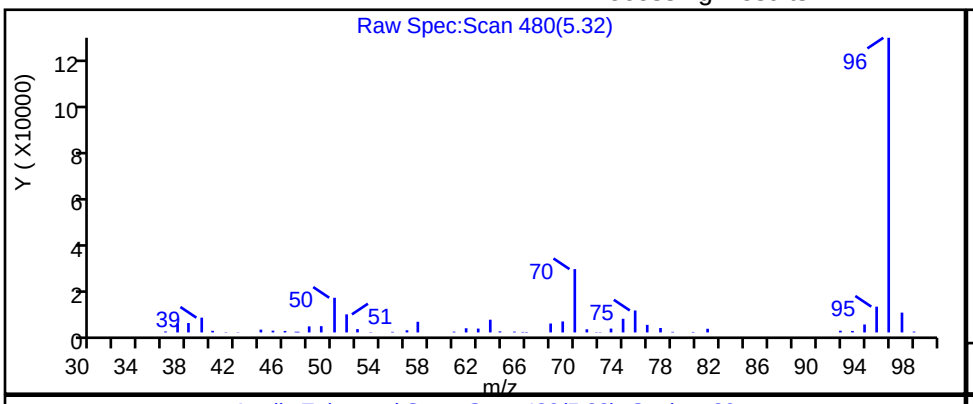
User Disabled Compound Report

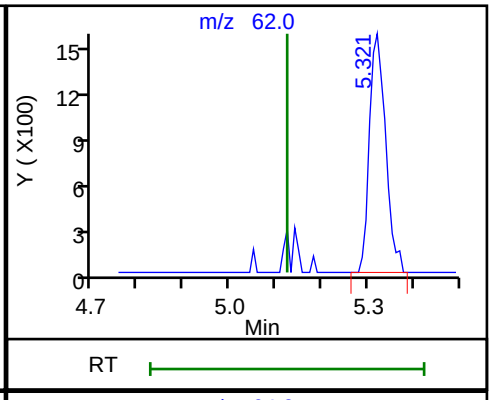
TestAmerica Edison

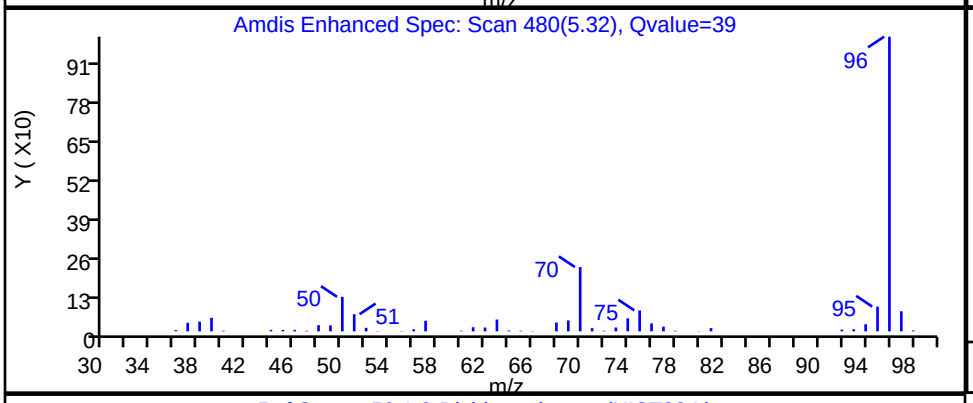
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68532.D
Injection Date: 01-Aug-2018 08:53:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

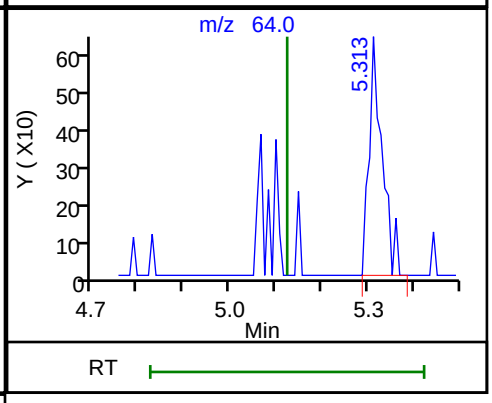
59 1,2-Dichloroethane, CAS: 107-06-2

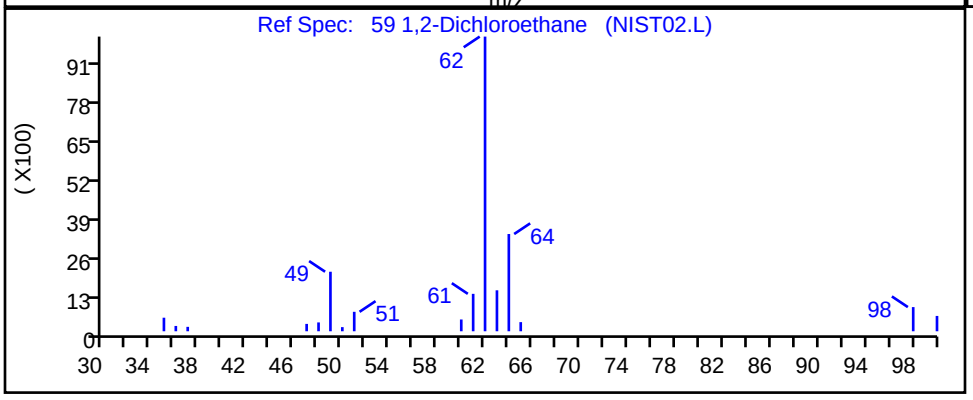
Processing Results











RT	Mass	Response	Amount
5.32	62.00	3873	0.962319
5.31	64.00	1284	

Reviewer: moroneyc, 01-Aug-2018 09:29:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-427697/23-A

Matrix: Solid | Lab File ID: F4189.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/02/2018 13:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	47.3		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	57.1		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	48.5		5.0	1.1
79-00-5	1,1,2-Trichloroethane	55.7		5.0	0.65
75-34-3	1,1-Dichloroethane	55.2		5.0	0.61
75-35-4	1,1-Dichloroethene	51.8		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	48.6		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	45.7		5.0	2.5
95-50-1	1,2-Dichlorobenzene	53.1		5.0	0.39
107-06-2	1,2-Dichloroethane	48.2		5.0	0.25
78-87-5	1,2-Dichloropropane	57.4		5.0	2.5
541-73-1	1,3-Dichlorobenzene	55.3		5.0	0.26
106-46-7	1,4-Dichlorobenzene	54.4		5.0	0.70
78-93-3	2-Butanone (MEK)	278		25	1.8
591-78-6	2-Hexanone	283		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	282		25	1.6
67-64-1	Acetone	231		25	4.2
71-43-2	Benzene	55.6		5.0	0.25
75-25-2	Bromoform	55.8		5.0	2.5
74-83-9	Bromomethane	49.1		5.0	0.45
75-15-0	Carbon disulfide	48.8		5.0	2.5
56-23-5	Carbon tetrachloride	48.8		5.0	0.48
108-90-7	Chlorobenzene	55.5		5.0	0.66
124-48-1	Dibromochloromethane	56.0		5.0	0.64
75-00-3	Chloroethane	51.6		5.0	1.1
67-66-3	Chloroform	51.0		5.0	0.31
74-87-3	Chloromethane	48.1		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	53.1		5.0	0.64
110-82-7	Cyclohexane	54.2		5.0	0.70
75-27-4	Bromodichloromethane	52.8		5.0	0.67
75-71-8	Dichlorodifluoromethane	46.3		5.0	0.41
100-41-4	Ethylbenzene	56.3		5.0	0.35
106-93-4	1,2-Dibromoethane	54.0		5.0	0.64
98-82-8	Isopropylbenzene	56.6		5.0	0.75
79-20-9	Methyl acetate	125		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-427697/23-A

Matrix: Solid | Lab File ID: F4189.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 08/02/2018 13:30

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	45.1		5.0	0.49
108-87-2	Methylcyclohexane	52.4		5.0	0.76
75-09-2	Methylene Chloride	49.7		5.0	2.3
127-18-4	Tetrachloroethene	54.7		5.0	0.67
108-88-3	Toluene	56.1		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	53.4		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	55.1		5.0	2.2
79-01-6	Trichloroethene	53.2		5.0	1.1
75-69-4	Trichlorofluoromethane	49.4		5.0	0.47
75-01-4	Vinyl chloride	51.2		5.0	0.61
1330-20-7	Xylenes, Total	110		10	0.84
10061-01-5	cis-1,3-Dichloropropene	54.5		5.0	0.72
100-42-5	Styrene	55.4		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	94		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4189.D
Lims ID: LCS 480-427697/23-A
Client ID:
Sample Type: LCS
Inject. Date: 02-Aug-2018 13:30:30 ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 480-427697/23-A
Misc. Info.: 480-0073600-011
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 17:37:55 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: cwiklinc Date: 02-Aug-2018 13:41:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	312586	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	85	629738	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	592051	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	93	361679	50.0	47.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.959	4.960	-0.001	96	234738	50.0	47.3	
$ 5 Toluene-d8 (Surr)	98	6.559	6.560	-0.001	92	1477749	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	473482	50.0	48.2	
10 Dichlorodifluoromethane	85	1.808	1.808	0.000	99	456931	50.0	46.3	
12 Chloromethane	50	2.003	1.997	0.006	99	387541	50.0	48.1	
13 Vinyl chloride	62	2.076	2.076	0.000	97	404022	50.0	51.2	M
151 Butadiene	54	2.100	2.100	0.000	88	347694	50.0	39.7	
14 Bromomethane	94	2.368	2.368	0.000	91	218369	50.0	49.1	
15 Chloroethane	64	2.429	2.429	0.000	99	184164	50.0	51.6	
16 Dichlorofluoromethane	67	2.581	2.581	0.000	97	494670	50.0	51.5	
17 Trichlorofluoromethane	101	2.611	2.611	0.000	98	513044	50.0	49.4	
18 Ethyl ether	59	2.775	2.776	-0.001	88	364320	50.0	60.4	
20 Acrolein	56	2.928	2.928	0.000	100	382017	250.0	240.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.970	2.964	0.006	93	393614	50.0	48.5	
22 1,1-Dichloroethene	96	2.988	2.982	0.006	98	417860	50.0	51.8	
23 Acetone	43	3.037	3.037	0.000	100	758529	250.0	231.2	
25 Iodomethane	142	3.141	3.134	0.006	99	674436	50.0	46.7	
26 Carbon disulfide	76	3.195	3.189	0.006	99	1271192	50.0	48.8	
27 Methyl acetate	43	3.250	3.250	0.000	97	765935	100.0	125.1	
28 3-Chloro-1-propene	41	3.256	3.250	0.006	90	701917	50.0	54.4	
30 Methylene Chloride	84	3.366	3.360	0.006	91	472844	50.0	49.7	
31 2-Methyl-2-propanol	59	3.414	3.414	0.000	99	472586	500.0	493.6	
32 Methyl tert-butyl ether	73	3.518	3.512	0.006	94	1268403	50.0	45.1	
34 trans-1,2-Dichloroethene	96	3.542	3.542	0.000	98	495703	50.0	53.4	
33 Acrylonitrile	53	3.554	3.554	0.000	99	1729104	500.0	562.0	
35 Hexane	57	3.676	3.676	0.000	90	823359	50.0	56.3	
37 Vinyl acetate	43	3.852	3.852	0.000	97	1766287	100.0	102.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	3.864	3.864	0.000	96	875866	50.0	55.2	
44 2,2-Dichloropropane	77	4.302	4.296	0.006	90	632300	50.0	46.2	
43 2-Butanone (MEK)	43	4.296	4.296	0.000	98	1185897	250.0	277.7	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	81	542566	50.0	53.1	
48 Chlorobromomethane	128	4.509	4.509	0.000	96	247746	50.0	51.2	
49 Tetrahydrofuran	42	4.528	4.528	0.000	85	295452	100.0	113.3	
50 Chloroform	83	4.546	4.552	0.000	93	847064	50.0	51.0	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	666656	50.0	47.3	
52 Cyclohexane	56	4.716	4.716	0.000	88	771671	50.0	54.2	
54 1,1-Dichloropropene	75	4.801	4.801	0.000	99	717454	50.0	54.7	
55 Carbon tetrachloride	117	4.813	4.814	-0.001	97	579109	50.0	48.8	
53 Isobutyl alcohol	43	4.868	4.868	0.000	95	554419	1250.0	1388.1	
57 Benzene	78	4.984	4.984	0.000	96	2002742	50.0	55.6	
58 1,2-Dichloroethane	62	5.020	5.020	0.000	97	662039	50.0	48.2	
59 n-Heptane	43	5.081	5.081	0.000	89	792470	50.0	56.1	
62 Trichloroethene	95	5.501	5.501	0.000	98	510836	50.0	53.2	
64 Methylcyclohexane	83	5.635	5.635	0.000	87	886691	50.0	52.4	
65 1,2-Dichloropropane	63	5.720	5.714	0.006	97	483429	50.0	57.4	
66 1,4-Dioxane	88	5.823	5.823	0.000	91	95691	1000.0	1021.4	
67 Dibromomethane	93	5.848	5.848	0.000	96	290802	50.0	50.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	100	618075	50.0	52.8	
69 2-Chloroethyl vinyl ether	63	6.164	6.164	0.000	92	286076	50.0	55.4	
72 cis-1,3-Dichloropropene	75	6.334	6.334	0.000	97	777603	50.0	54.5	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.438	-0.006	94	2258469	250.0	282.4	
74 Toluene	92	6.626	6.620	0.006	99	1266392	50.0	56.1	
77 trans-1,3-Dichloropropene	75	6.845	6.845	0.000	97	728621	50.0	55.1	
75 Ethyl methacrylate	69	6.851	6.852	-0.001	87	633773	50.0	55.5	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	92	357393	50.0	55.7	
81 Tetrachloroethene	166	7.144	7.144	0.000	98	554620	50.0	54.7	
82 1,3-Dichloropropane	76	7.204	7.204	0.000	97	767145	50.0	56.5	
80 2-Hexanone	43	7.223	7.223	0.000	93	1763903	250.0	282.5	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	447467	50.0	56.0	
84 Ethylene Dibromide	107	7.569	7.569	0.000	99	441017	50.0	54.0	
87 Chlorobenzene	112	8.020	8.020	0.000	95	1355053	50.0	55.5	
88 Ethylbenzene	91	8.086	8.086	0.000	98	2289114	50.0	56.3	
89 1,1,1,2-Tetrachloroethane	131	8.099	8.099	0.000	94	425702	50.0	53.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	948258	50.0	55.6	
91 o-Xylene	106	8.634	8.634	0.000	95	871567	50.0	54.6	
92 Styrene	104	8.652	8.652	0.000	94	1543159	50.0	55.4	
95 Bromoform	173	8.920	8.926	-0.006	97	289759	50.0	55.8	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	2185112	50.0	56.6	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.388	0.000	77	555250	50.0	57.1	
101 Bromobenzene	156	9.388	9.388	0.000	92	589121	50.0	55.3	
99 N-Propylbenzene	91	9.437	9.437	0.000	98	2637365	50.0	58.6	
98 trans-1,4-Dichloro-2-buten	53	9.437	9.437	0.000	57	172877	50.0	54.1	
100 1,2,3-Trichloropropane	110	9.443	9.443	0.000	80	176555	50.0	53.0	
103 2-Chlorotoluene	126	9.565	9.565	0.000	97	542111	50.0	56.4	
102 1,3,5-Trimethylbenzene	105	9.607	9.607	0.000	94	1854175	50.0	55.7	
105 4-Chlorotoluene	126	9.674	9.674	0.000	97	587884	50.0	56.6	
106 tert-Butylbenzene	134	9.936	9.930	0.006	92	410672	50.0	54.0	
107 1,2,4-Trimethylbenzene	105	9.985	9.985	0.000	96	1896845	50.0	55.5	
109 sec-Butylbenzene	105	10.143	10.143	0.000	94	2339276	50.0	55.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.270	10.270	0.000	96	1982242	50.0	55.5	
111 1,3-Dichlorobenzene	146	10.301	10.295	0.006	97	1097025	50.0	55.3	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	1108652	50.0	54.4	
115 n-Butylbenzene	91	10.648	10.648	0.000	97	1807450	50.0	56.1	
116 1,2-Dichlorobenzene	146	10.727	10.733	-0.006	98	971318	50.0	53.1	
117 1,2-Dibromo-3-Chloropropan	75	11.414	11.414	0.000	93	85585	50.0	45.7	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	593074	50.0	48.6	
120 Hexachlorobutadiene	225	12.144	12.144	0.000	97	346440	50.0	47.1	
121 Naphthalene	128	12.266	12.266	0.000	97	1330929	50.0	46.7	
122 1,2,3-Trichlorobenzene	180	12.473	12.479	0.000	96	535265	50.0	47.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

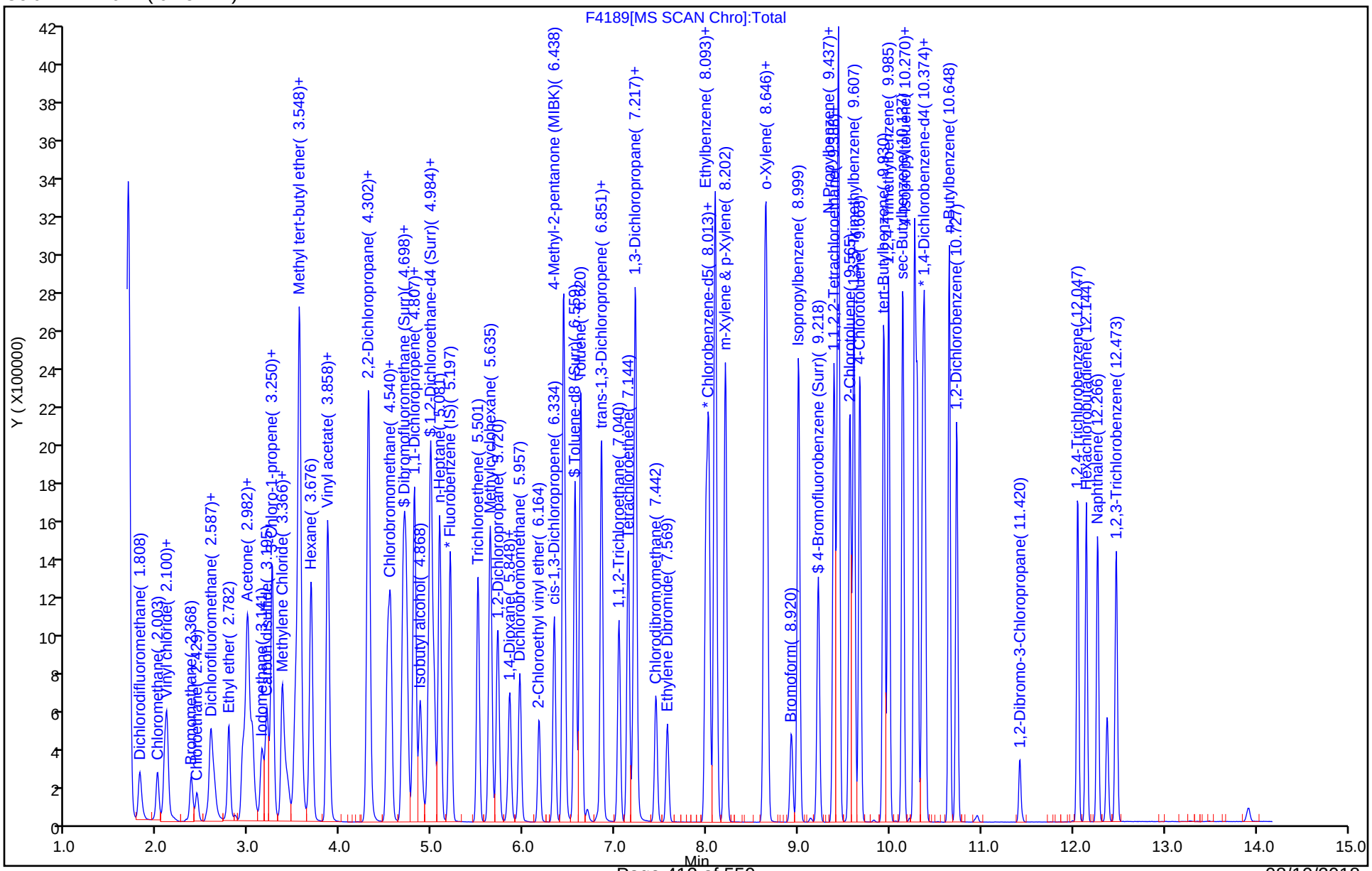
Report Date: 02-Aug-2018 17:37:56 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4189.D

Injection Date:	02-Aug-2018 13:30:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	LCS 480-427697/23-A			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

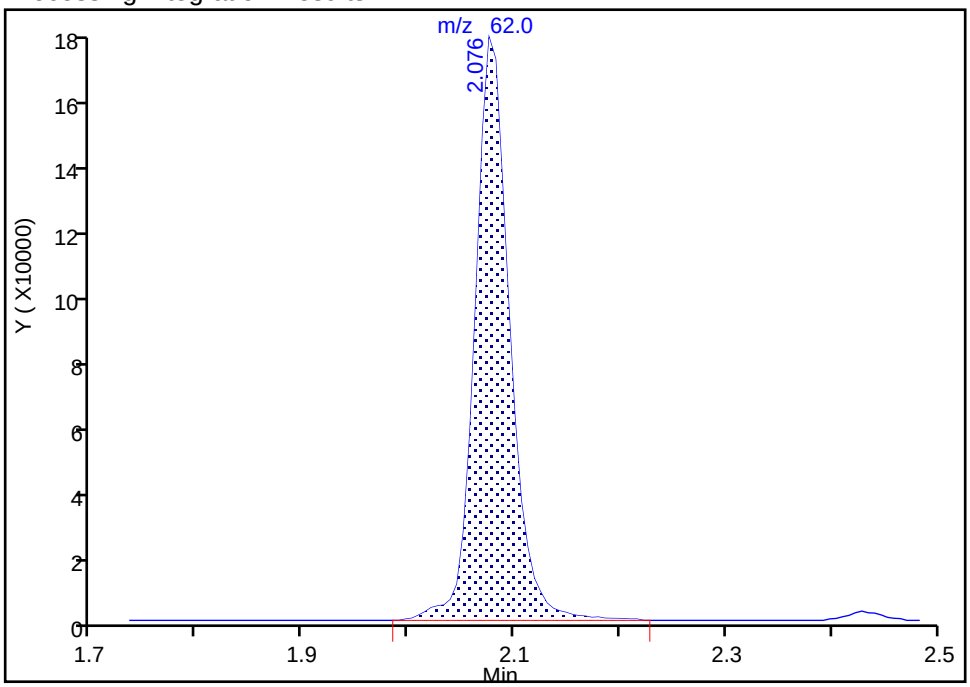
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4189.D
Injection Date: 02-Aug-2018 13:30:30 Instrument ID: HP5973F
Lims ID: LCS 480-427697/23-A
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

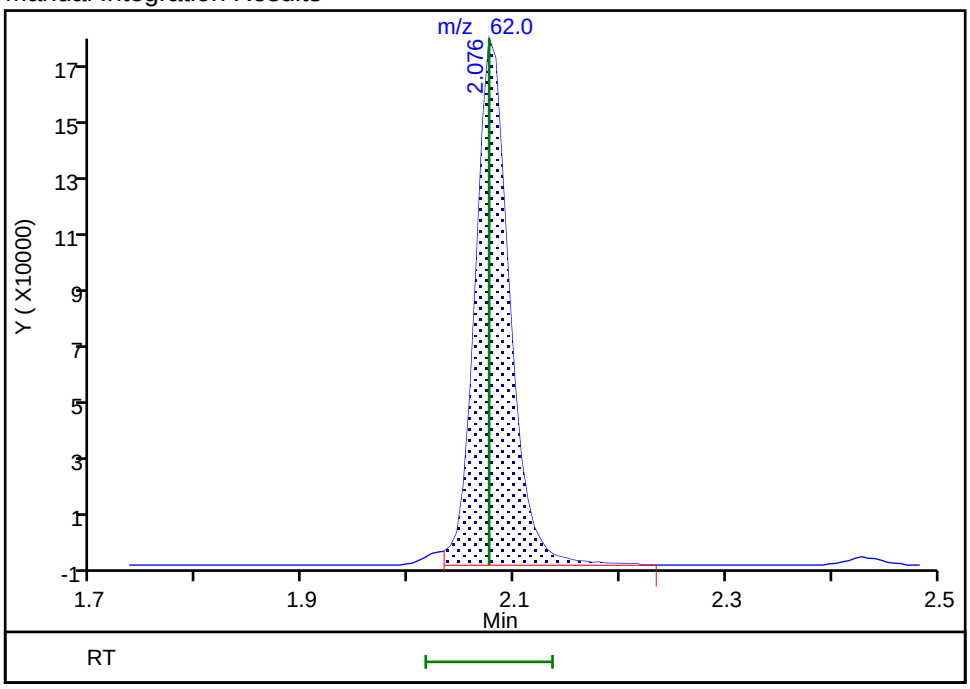
Processing Integration Results

RT: 2.08
Area: 408274
Amount: 51.769542
Amount Units: ug/kg



Manual Integration Results

RT: 2.08
Area: 404022
Amount: 51.230384
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 17:37:21
Audit Action: Manually Integrated Audit Reason: Split Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-541118/4

Matrix: Water | Lab File ID: F68504.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2018 19:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	21.7		1.0	0.43
75-34-3	1,1-Dichloroethane	23.4		1.0	0.26
75-35-4	1,1-Dichloroethene	20.2		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	22.2		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.38
95-50-1	1,2-Dichlorobenzene	21.3		1.0	0.43
107-06-2	1,2-Dichloroethane	22.1		1.0	0.43
78-87-5	1,2-Dichloropropane	22.7		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.5		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.2		1.0	0.76
78-93-3	2-Butanone (MEK)	84.4		5.0	1.9
591-78-6	2-Hexanone	102		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.7
67-64-1	Acetone	105		5.0	5.0
71-43-2	Benzene	22.9		1.0	0.43
75-25-2	Bromoform	17.9		1.0	0.54
74-83-9	Bromomethane	16.9		1.0	1.0
75-15-0	Carbon disulfide	20.5		1.0	0.16
56-23-5	Carbon tetrachloride	19.8		1.0	0.21
108-90-7	Chlorobenzene	20.5		1.0	0.38
124-48-1	Dibromochloromethane	19.2		1.0	0.28
75-00-3	Chloroethane	20.8		1.0	0.32
67-66-3	Chloroform	21.5		1.0	0.33
74-87-3	Chloromethane	24.6		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	20.9		1.0	0.22
110-82-7	Cyclohexane	20.6		1.0	0.32
75-27-4	Bromodichloromethane	20.2		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.4		1.0	0.12
100-41-4	Ethylbenzene	20.6		1.0	0.30
106-93-4	1,2-Dibromoethane	20.6		1.0	0.50
98-82-8	Isopropylbenzene	22.3		1.0	0.34
79-20-9	Methyl acetate	64.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-541118/4

Matrix: Water | Lab File ID: F68504.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/31/2018 19:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.2		1.0	0.47
108-87-2	Methylcyclohexane	20.3		1.0	0.26
75-09-2	Methylene Chloride	20.9		1.0	0.32
127-18-4	Tetrachloroethene	20.1		1.0	0.25
108-88-3	Toluene	21.8		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	21.3		1.0	0.49
79-01-6	Trichloroethene	19.1		1.0	0.31
75-69-4	Trichlorofluoromethane	19.3		1.0	0.14
75-01-4	Vinyl chloride	21.3		1.0	0.17
1330-20-7	Xylenes, Total	42.9		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	22.3		1.0	0.46
100-42-5	Styrene	21.5		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	92		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68504.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 31-Jul-2018 19:43:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0076414-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 08:55:13 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: parekhv Date: 01-Aug-2018 00:19:08

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116	1.541	1.533	0.008	90	30417	20.0	14.8	
	2 Dichlorodifluoromethane	85	1.566	1.566	0.000	99	101581	20.0	20.4	
	3 Chloromethane	50	1.747	1.739	0.009	99	149336	20.0	24.6	
	4 Vinyl chloride	62	1.837	1.829	0.008	89	129410	20.0	21.3	
	5 Butadiene	54	1.837	1.829	0.008	95	117568	20.0	21.3	
	6 Bromomethane	94	2.116	2.108	0.008	99	70847	20.0	16.9	
	7 Chloroethane	64	2.174	2.174	0.000	99	74954	20.0	20.8	
	8 Dichlorofluoromethane	67	2.347	2.347	0.000	99	176969	20.0	23.1	
	10 Pentane	72	2.363	2.355	0.008	97	24248	40.0	36.4	
	9 Trichlorofluoromethane	101	2.363	2.355	0.008	51	108500	20.0	19.3	
	12 Ethyl ether	59	2.544	2.544	0.000	94	59650	20.0	23.8	
	11 Ethanol	46	2.544	2.552	-0.008	74	7501	800.0	895.0	
	13 2-Methyl-1,3-butadiene	53	2.568	2.560	0.008	96	69705	20.0	23.9	
	14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.609	0.009	96	59304	20.0	19.9	
	15 Acrolein	56	2.725	2.716	0.009	31	5105	40.0	24.9	
	16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.733	0.008	95	67553	20.0	19.4	
	17 1,1-Dichloroethene	96	2.757	2.749	0.008	95	65320	20.0	20.2	
	18 Acetone	43	2.848	2.840	0.008	87	88038	100.0	105.2	
	19 Iodomethane	142	2.905	2.905	0.000	98	111499	20.0	19.1	
	20 Isopropyl alcohol	45	2.938	2.938	0.000	27	27555	200.0	223.5	
	21 Carbon disulfide	76	2.946	2.938	0.008	100	265516	20.0	20.5	
	22 3-Chloro-1-propene	41	3.061	3.061	0.000	94	172128	20.0	27.8	
	24 Methyl acetate	43	3.078	3.070	0.008	98	120085	40.0	64.1	
	23 Cyclopentene	67	3.086	3.078	0.008	95	184857	20.0	22.5	
	25 Acetonitrile	41	3.144	3.135	0.009	97	100083	200.0	275.5	a
	27 Methylene Chloride	84	3.185	3.185	0.000	98	83261	20.0	20.9	
*	26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	105393	1000.0	1000.0	
	28 2-Methyl-2-propanol	59	3.267	3.250	0.017	96	46429	200.0	209.5	
	29 Methyl tert-butyl ether	73	3.341	3.341	0.000	98	202891	20.0	21.2	
	30 trans-1,2-Dichloroethene	96	3.374	3.365	0.009	98	73363	20.0	20.5	
	31 Acrylonitrile	53	3.439	3.439	0.000	95	266743	200.0	249.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.513	0.000	94	75252	20.0	25.8	
33 Isopropyl ether	45	3.719	3.719	0.000	97	289274	20.0	26.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	148793	20.0	23.4	
35 Vinyl acetate	86	3.768	3.768	0.000	100	20822	40.0	33.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	93	65521	20.0	20.8	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	241314	20.0	23.5	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	146783	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	95	26268	20.0	19.6	
40 cis-1,2-Dichloroethene	96	4.278	4.269	0.009	93	84127	20.0	20.9	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	95	32846	100.0	84.4	
42 Ethyl acetate	70	4.294	4.286	0.008	96	13451	40.0	34.7	
43 Methyl acrylate	55	4.343	4.343	0.000	98	51201	20.0	25.3	
44 Propionitrile	54	4.425	4.417	0.008	97	94655	200.0	241.4	
45 Chlorobromomethane	128	4.499	4.491	0.008	98	35538	20.0	19.2	
46 Tetrahydrofuran	72	4.499	4.499	0.000	53	16357	40.0	36.8	
47 Methacrylonitrile	67	4.516	4.516	0.000	95	254574	200.0	219.2	
48 Chloroform	83	4.549	4.540	0.009	98	123380	20.0	21.5	
49 Cyclohexane	84	4.680	4.680	0.000	95	110222	20.0	20.6	
50 1,1,1-Trichloroethane	97	4.697	4.688	0.009	98	99757	20.0	19.5	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	64228	50.0	46.1	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	82249	20.0	19.8	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	98984	20.0	21.9	
54 Isobutyl alcohol	43	4.984	4.984	0.000	93	101857	500.0	571.2	
55 Benzene	78	5.033	5.033	0.000	98	300618	20.0	22.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	75847	50.0	51.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	96	188066	20.0	23.0	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	96	233436	20.0	21.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	91412	20.0	22.1	
60 n-Heptane	57	5.181	5.173	0.008	95	57674	20.0	23.0	
* 61 Fluorobenzene	96	5.313	5.313	0.000	98	279528	50.0	50.0	
62 n-Butanol	56	5.633	5.642	-0.009	92	21978	500.0	412.4	
63 Trichloroethene	95	5.666	5.666	0.000	97	65791	20.0	19.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	175028	20.0	23.4	
64 Methylcyclohexane	83	5.789	5.789	0.000	86	123324	20.0	20.3	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	89	80948	20.0	22.7	
* 67 1,4-Dioxane-d8	96	6.020	6.020	0.000	0	8525	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	92	27559	40.0	38.3	
69 1,4-Dioxane	88	6.069	6.077	-0.008	27	8577	400.0	527.1	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	83468	20.0	25.2	
71 Dibromomethane	93	6.085	6.085	0.000	91	40388	20.0	19.9	
72 Dichlorobromomethane	83	6.233	6.233	0.000	98	87855	20.0	20.2	
74 2-Chloroethyl vinyl ether	63	6.570	6.562	0.008	75	36821	20.0	23.6	
73 2-Nitropropane	41	6.570	6.562	0.008	84	28317	40.0	45.7	
75 Epichlorohydrin	57	6.677	6.677	0.000	100	111350	400.0	378.8	
76 cis-1,3-Dichloropropene	75	6.726	6.726	0.000	95	106205	20.0	22.3	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.891	0.000	99	328113	100.0	109.3	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	252538	50.0	48.7	
79 Toluene	91	7.047	7.047	0.000	94	288886	20.0	21.8	
80 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	97	84709	20.0	21.3	
81 Ethyl methacrylate	69	7.425	7.425	0.000	91	74345	20.0	22.8	
82 1,1,2-Trichloroethane	83	7.614	7.614	0.000	95	47970	20.0	21.7	
83 Tetrachloroethene	166	7.663	7.663	0.000	95	65131	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	96	96016	20.0	23.0	
85 2-Hexanone	43	7.885	7.885	0.000	98	180692	100.0	102.0	
86 n-Butyl acetate	43	8.000	8.000	0.000	97	104897	20.0	27.9	
87 Chlorodibromomethane	129	8.057	8.057	0.000	98	54934	20.0	19.2	
88 Ethylene Dibromide	107	8.213	8.213	0.000	98	49655	20.0	20.6	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	88	188169	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	171153	20.0	20.5	
91 Ethylbenzene	106	8.895	8.895	0.000	99	99213	20.0	20.6	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	95	61761	20.0	19.5	
93 m-Xylene & p-Xylene	106	9.052	9.052	0.000	0	125207	20.0	21.8	
94 n-Butyl acrylate	73	9.487	9.487	0.000	98	47454	20.0	21.9	
95 o-Xylene	106	9.495	9.495	0.000	93	125896	20.0	21.2	
96 Styrene	104	9.528	9.528	0.000	94	198473	20.0	21.5	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	90	125448	20.0	28.2	
98 Bromoform	173	9.742	9.734	0.008	95	32959	20.0	17.9	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	318981	20.0	22.3	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	71938	50.0	47.4	
101 Bromobenzene	156	10.144	10.144	0.000	95	73342	20.0	20.9	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	72055	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	385576	20.0	24.0	
104 1,2,3-Trichloropropane	110	10.218	10.227	-0.009	97	19134	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	76	18223	20.0	24.5	a
106 2-Chlorotoluene	91	10.292	10.292	0.000	92	266345	20.0	23.5	
107 4-Ethyltoluene	105	10.292	10.292	0.000	88	324282	20.0	24.5	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	272170	20.0	23.3	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	246597	20.0	24.6	
110 Butyl Methacrylate	87	10.424	10.424	0.000	96	88711	20.0	22.5	
111 tert-Butylbenzene	119	10.580	10.580	0.000	94	208111	20.0	22.1	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	277834	20.0	23.4	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	340321	20.0	23.5	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	284024	20.0	23.2	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	94	147515	20.0	21.5	
* 116 1,4-Dichlorobenzene-d4	152	10.900	10.900	0.000	98	101461	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	92	150156	20.0	21.2	
132 1,2,3-Trimethylbenzene	105	10.925	10.925	0.000	98	286930	20.0	22.7	
118 Benzyl chloride	91	11.015	11.015	0.000	98	141115	20.0	22.4	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	290377	20.0	22.9	
120 p-Diethylbenzene	119	11.098	11.098	0.000	93	176971	20.0	23.4	
121 n-Butylbenzene	92	11.114	11.114	0.000	99	164899	20.0	23.6	
122 1,2-Dichlorobenzene	146	11.172	11.172	0.000	95	146582	20.0	21.3	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	273650	20.0	23.2	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	92	12153	20.0	20.0	
125 1,3,5-Trichlorobenzene	180	11.738	11.747	-0.009	97	120896	20.0	22.5	
126 1,2,4-Trichlorobenzene	180	12.141	12.149	-0.008	94	106152	20.0	22.2	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	95	47489	20.0	21.0	
128 Naphthalene	128	12.314	12.314	0.000	99	235796	20.0	23.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	99860	20.0	21.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.4	
S 131 Xylenes, Total	100				0		40.0	42.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

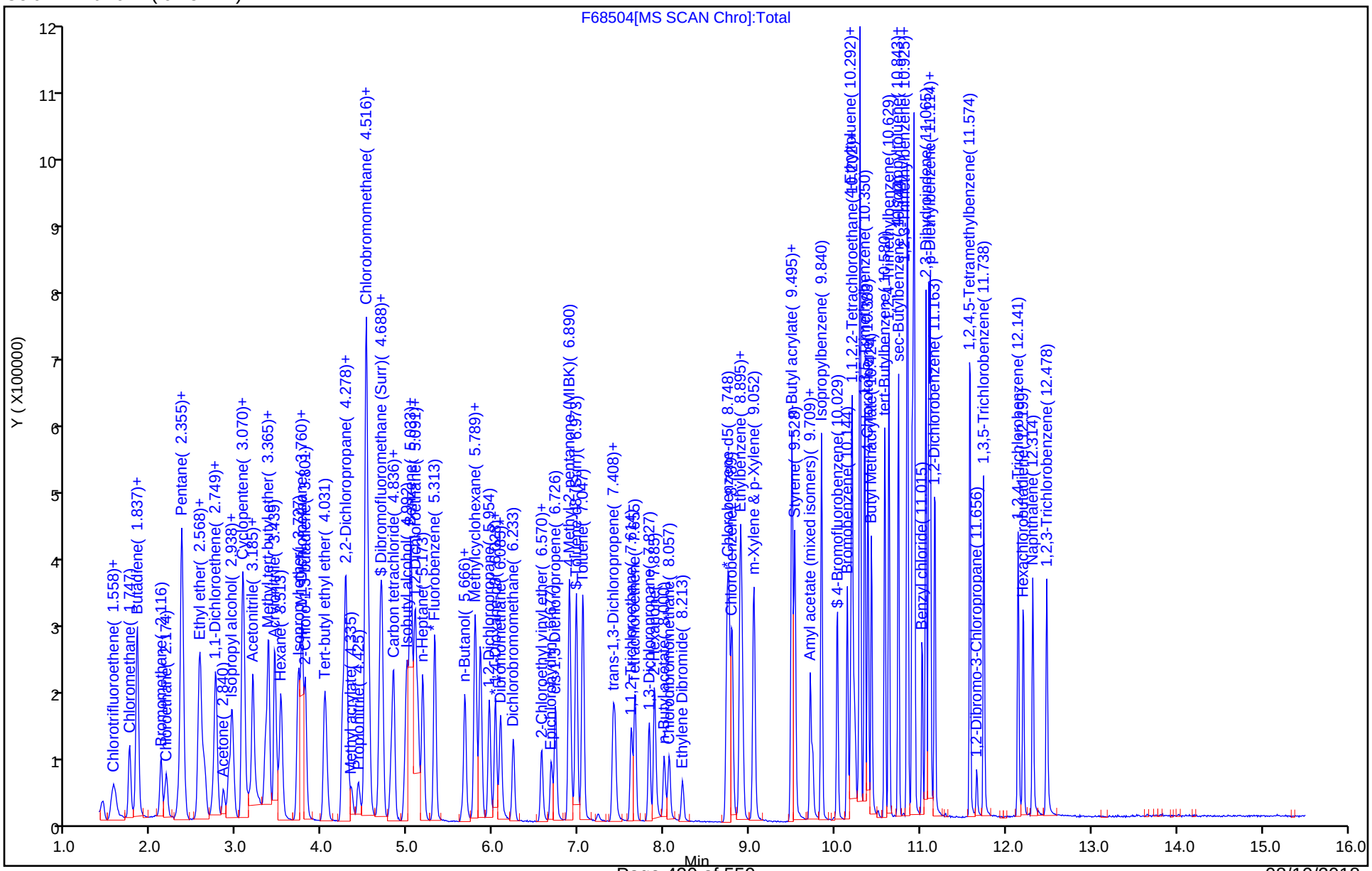
Report Date: 01-Aug-2018 08:55:27 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68504.D

Injection Date:	31-Jul-2018 19:43:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-541225/4

Matrix: Water | Lab File ID: F68528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 07:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541225 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.1		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	24.0		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	23.0		1.0	0.43
75-34-3	1,1-Dichloroethane	23.9		1.0	0.26
75-35-4	1,1-Dichloroethene	22.5		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	23.3		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	23.3		1.0	0.38
95-50-1	1,2-Dichlorobenzene	22.7		1.0	0.43
107-06-2	1,2-Dichloroethane	22.1		1.0	0.43
78-87-5	1,2-Dichloropropane	23.4		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.8		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.7		1.0	0.76
78-93-3	2-Butanone (MEK)	92.3		5.0	1.9
591-78-6	2-Hexanone	102		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	114		5.0	2.7
67-64-1	Acetone	126		5.0	5.0
71-43-2	Benzene	24.1		1.0	0.43
75-25-2	Bromoform	20.0		1.0	0.54
74-83-9	Bromomethane	14.1		1.0	1.0
75-15-0	Carbon disulfide	23.2		1.0	0.16
56-23-5	Carbon tetrachloride	21.6		1.0	0.21
108-90-7	Chlorobenzene	21.7		1.0	0.38
124-48-1	Dibromochloromethane	20.0		1.0	0.28
75-00-3	Chloroethane	19.6		1.0	0.32
67-66-3	Chloroform	21.8		1.0	0.33
74-87-3	Chloromethane	23.2		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	21.4		1.0	0.22
110-82-7	Cyclohexane	24.1		1.0	0.32
75-27-4	Bromodichloromethane	20.9		1.0	0.34
75-71-8	Dichlorodifluoromethane	21.9		1.0	0.12
100-41-4	Ethylbenzene	20.9		1.0	0.30
106-93-4	1,2-Dibromoethane	21.8		1.0	0.50
98-82-8	Isopropylbenzene	22.7		1.0	0.34
79-20-9	Methyl acetate	65.3		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-541225/4

Matrix: Water | Lab File ID: F68528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 07:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541225 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	22.2		1.0	0.47
108-87-2	Methylcyclohexane	23.8		1.0	0.26
75-09-2	Methylene Chloride	22.0		1.0	0.32
127-18-4	Tetrachloroethene	21.2		1.0	0.25
108-88-3	Toluene	22.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	21.4		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	22.2		1.0	0.49
79-01-6	Trichloroethene	20.8		1.0	0.31
75-69-4	Trichlorofluoromethane	20.6		1.0	0.14
75-01-4	Vinyl chloride	21.2		1.0	0.17
1330-20-7	Xylenes, Total	43.7		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	23.2		1.0	0.46
100-42-5	Styrene	21.6		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68528.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 01-Aug-2018 07:19:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0076436-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 12:40:49 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: moroneyc Date: 01-Aug-2018 09:23:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.549	-0.008	89	46586	20.0	22.6	
2 Dichlorodifluoromethane	85	1.566	1.574	-0.008	98	108831	20.0	21.9	
3 Chloromethane	50	1.747	1.747	0.000	100	140711	20.0	23.2	
4 Vinyl chloride	62	1.837	1.837	0.000	98	128775	20.0	21.2	
5 Butadiene	54	1.837	1.837	0.000	96	122897	20.0	22.3	
6 Bromomethane	94	2.116	2.116	0.000	98	59068	20.0	14.1	
7 Chloroethane	64	2.174	2.174	0.000	99	70868	20.0	19.6	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	172465	20.0	22.5	
10 Pentane	72	2.363	2.363	0.000	96	32392	40.0	42.8	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	50	115861	20.0	20.6	
12 Ethyl ether	59	2.552	2.552	0.000	91	64384	20.0	25.7	
11 Ethanol	46	2.552	2.560	-0.008	79	4728	800.0	496.1	
13 2-Methyl-1,3-butadiene	53	2.568	2.577	-0.009	97	80158	20.0	27.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	96	67627	20.0	22.7	
15 Acrolein	56	2.741	2.741	0.000	29	4781	40.0	20.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	96	83148	20.0	23.9	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	94	72859	20.0	22.5	
18 Acetone	43	2.848	2.848	0.000	86	107470	100.0	126.0	
19 Iodomethane	142	2.913	2.913	0.000	96	124060	20.0	21.3	
20 Isopropyl alcohol	45	2.946	2.955	-0.008	26	35798	200.0	255.4	
21 Carbon disulfide	76	2.946	2.955	-0.008	100	299792	20.0	23.2	
22 3-Chloro-1-propene	41	3.061	3.070	-0.009	96	179206	20.0	29.0	
24 Methyl acetate	43	3.078	3.078	0.000	99	122426	40.0	65.3	
23 Cyclopentene	67	3.086	3.086	0.000	95	213863	20.0	26.0	
25 Acetonitrile	41	3.152	3.152	0.000	95	114538	200.0	277.3	a
27 Methylene Chloride	84	3.193	3.193	0.000	98	87774	20.0	22.0	
* 26 TBA-d9 (IS)	65	3.209	3.209	0.000	0	119838	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	92	57806	200.0	229.4	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	98	213066	20.0	22.2	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	98	76534	20.0	21.4	
31 Acrylonitrile	53	3.448	3.448	0.000	95	291178	200.0	272.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.521	3.521	0.000	95	93244	20.0	32.0	
33 Isopropyl ether	45	3.727	3.727	0.000	97	305227	20.0	27.9	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	151911	20.0	23.9	
35 Vinyl acetate	86	3.776	3.768	0.008	100	23829	40.0	38.8	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	92	70418	20.0	22.3	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	88	251748	20.0	24.5	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	149616	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.269	-0.008	95	27689	20.0	20.7	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	92	86016	20.0	21.4	
42 Ethyl acetate	70	4.286	4.286	0.000	97	14083	40.0	35.6	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	95	36594	100.0	92.3	
43 Methyl acrylate	55	4.343	4.343	0.000	99	52220	20.0	25.9	
44 Propionitrile	54	4.425	4.425	0.000	98	104558	200.0	234.5	
45 Chlorobromomethane	128	4.499	4.499	0.000	97	37340	20.0	20.1	
46 Tetrahydrofuran	72	4.507	4.508	-0.001	50	17658	40.0	39.1	
47 Methacrylonitrile	67	4.516	4.516	0.000	95	274953	200.0	236.6	
48 Chloroform	83	4.549	4.549	0.000	97	124879	20.0	21.8	
49 Cyclohexane	84	4.680	4.680	0.000	95	128950	20.0	24.1	
50 1,1,1-Trichloroethane	97	4.696	4.697	0.000	97	107875	20.0	21.1	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	65020	50.0	46.6	
52 Carbon tetrachloride	117	4.812	4.812	0.000	95	89911	20.0	21.6	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	105510	20.0	23.3	
54 Isobutyl alcohol	43	4.992	4.992	0.000	85	124470	500.0	613.8	
55 Benzene	78	5.033	5.033	0.000	97	315421	20.0	24.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	75972	50.0	51.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	95	191990	20.0	23.4	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	95	243381	20.0	22.3	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	94	91561	20.0	22.1	
60 n-Heptane	57	5.181	5.181	0.000	95	69465	20.0	27.7	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	279685	50.0	50.0	
62 n-Butanol	56	5.658	5.641	0.017	94	24090	500.0	397.7	
63 Trichloroethene	95	5.674	5.674	0.000	98	71866	20.0	20.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	195755	20.0	26.2	
64 Methylcyclohexane	83	5.789	5.798	-0.009	87	144798	20.0	23.8	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	91	83593	20.0	23.4	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	10039	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	93	29342	40.0	40.7	
69 1,4-Dioxane	88	6.093	6.077	0.016	28	10173	400.0	530.9	
70 n-Propyl acetate	43	6.085	6.085	0.000	99	90913	20.0	27.4	
71 Dibromomethane	93	6.093	6.093	0.000	94	40593	20.0	20.0	
72 Dichlorobromomethane	83	6.233	6.233	0.000	98	90712	20.0	20.9	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	72	36581	20.0	23.4	
73 2-Nitropropane	41	6.570	6.570	0.000	80	30227	40.0	48.8	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	124211	400.0	414.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	94	109962	20.0	23.2	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	98	348229	100.0	113.8	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	251059	50.0	48.6	
79 Toluene	91	7.055	7.055	0.000	93	293696	20.0	22.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	88036	20.0	22.2	
81 Ethyl methacrylate	69	7.425	7.425	0.000	93	78598	20.0	24.3	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	94	50718	20.0	23.0	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	68610	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	97	99429	20.0	23.9	
85 2-Hexanone	43	7.893	7.893	0.000	98	184451	100.0	102.2	
86 n-Butyl acetate	43	8.000	8.008	-0.008	98	109755	20.0	29.3	
87 Chlorodibromomethane	129	8.065	8.057	0.008	98	57179	20.0	20.0	
88 Ethylene Dibromide	107	8.213	8.213	0.000	98	52258	20.0	21.8	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	87	187339	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	180383	20.0	21.7	
91 Ethylbenzene	106	8.895	8.895	0.000	99	100551	20.0	20.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.912	0.008	95	62723	20.0	19.9	
93 m-Xylene & p-Xylene	106	9.051	9.051	0.000	0	126382	20.0	22.1	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	48283	20.0	22.4	
95 o-Xylene	106	9.503	9.503	0.000	93	128027	20.0	21.6	
96 Styrene	104	9.528	9.528	0.000	94	198831	20.0	21.6	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	90	129909	20.0	29.3	
98 Bromoform	173	9.742	9.742	0.000	95	36634	20.0	20.0	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	322592	20.0	22.7	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	86	70001	50.0	46.3	
101 Bromobenzene	156	10.144	10.144	0.000	96	76371	20.0	21.8	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	79239	20.0	24.0	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	401044	20.0	25.0	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	97	20734	20.0	22.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	18766	20.0	25.3	
107 4-Ethyltoluene	105	10.292	10.292	0.000	88	323171	20.0	24.5	
106 2-Chlorotoluene	91	10.292	10.292	0.000	92	274214	20.0	24.3	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	274115	20.0	23.5	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	241857	20.0	24.2	
110 Butyl Methacrylate	87	10.432	10.432	0.000	95	90059	20.0	22.9	
111 tert-Butylbenzene	119	10.580	10.580	0.000	93	213222	20.0	22.7	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	282539	20.0	23.8	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	351909	20.0	24.3	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	293295	20.0	24.0	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	94	149705	20.0	21.8	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.900	0.008	95	101192	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	92	153648	20.0	21.7	
132 1,2,3-Trimethylbenzene	105	10.933	10.925	0.008	98	299824	20.0	23.8	
118 Benzyl chloride	91	11.024	11.015	0.009	98	146110	20.0	23.2	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	295922	20.0	23.4	
120 p-Diethylbenzene	119	11.097	11.097	0.000	93	181120	20.0	24.1	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	171675	20.0	24.6	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	155603	20.0	22.7	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	275201	20.0	23.4	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.656	0.008	94	14129	20.0	23.3	
125 1,3,5-Trichlorobenzene	180	11.747	11.738	0.009	96	121892	20.0	22.8	
126 1,2,4-Trichlorobenzene	180	12.149	12.141	0.008	94	110798	20.0	23.3	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	94	49772	20.0	22.0	
128 Naphthalene	128	12.322	12.314	0.008	99	237323	20.0	23.6	
129 1,2,3-Trichlorobenzene	180	12.486	12.478	0.008	94	98688	20.0	21.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.8	
S 131 Xylenes, Total	100				0		40.0	43.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 01-Aug-2018 12:41:01 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180801-76436.b\F68528.D

Injection Date: 01-Aug-2018 07:19:30 Instrument ID: CVOAMS6 Operator ID:

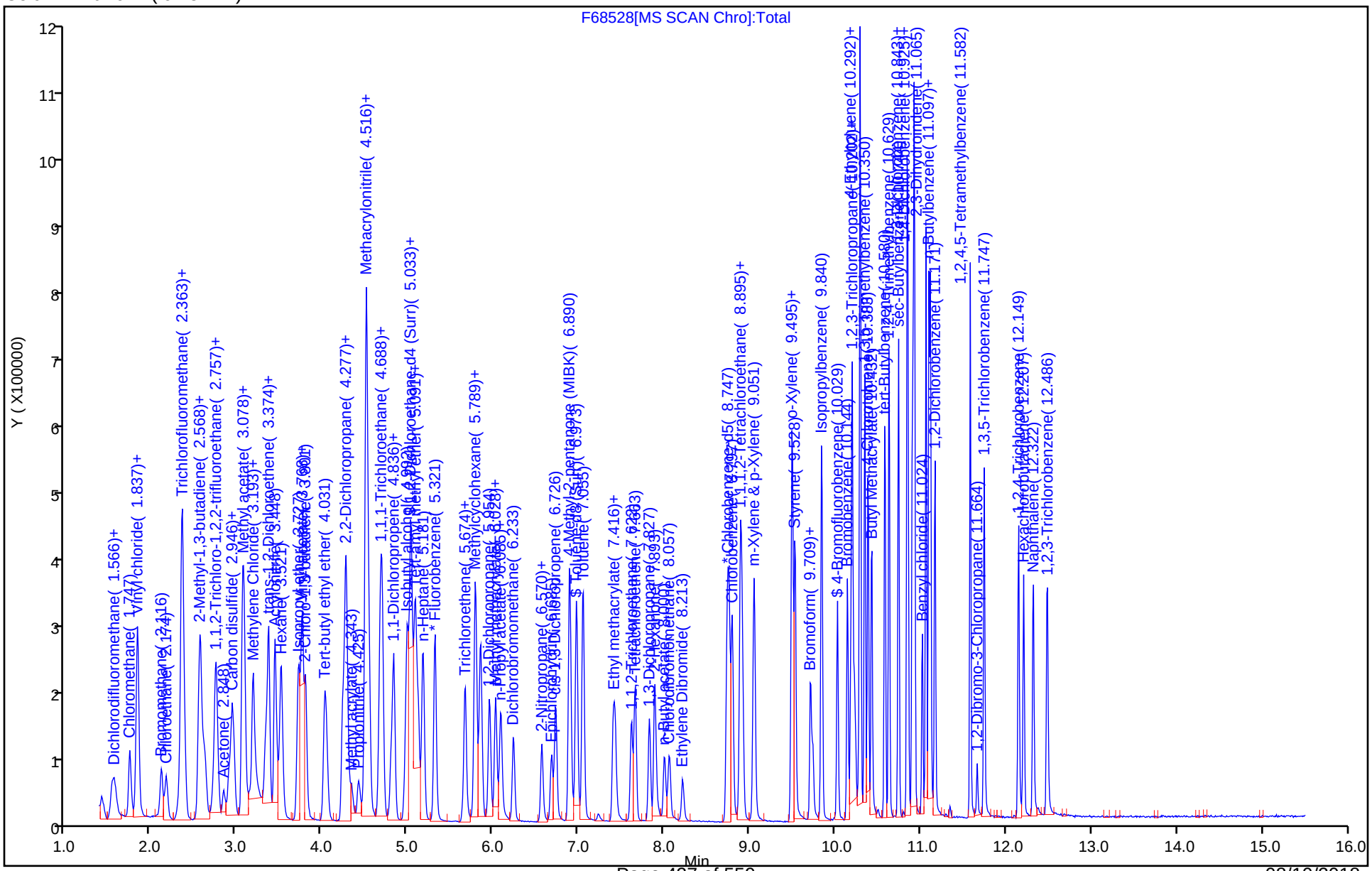
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 MS | Lab Sample ID: 480-139579-8 MS

Matrix: Solid | Lab File ID: F4204.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 7.062(g) | Date Analyzed: 08/02/2018 19:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	31.3		4.5	0.33
79-34-5	1,1,2,2-Tetrachloroethane	32.7		4.5	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	30.6		4.5	1.0
79-00-5	1,1,2-Trichloroethane	36.2		4.5	0.59
75-34-3	1,1-Dichloroethane	37.5		4.5	0.55
75-35-4	1,1-Dichloroethene	32.4		4.5	0.55
120-82-1	1,2,4-Trichlorobenzene	30.5		4.5	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	22.2		4.5	2.3
95-50-1	1,2-Dichlorobenzene	36.1		4.5	0.35
107-06-2	1,2-Dichloroethane	32.4		4.5	0.23
78-87-5	1,2-Dichloropropane	40.4		4.5	2.3
541-73-1	1,3-Dichlorobenzene	36.9		4.5	0.23
106-46-7	1,4-Dichlorobenzene	36.1		4.5	0.63
78-93-3	2-Butanone (MEK)	129		23	1.7
591-78-6	2-Hexanone	138		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	150		23	1.5
67-64-1	Acetone	108		23	3.8
71-43-2	Benzene	38.5		4.5	0.22
75-25-2	Bromoform	31.9		4.5	2.3
74-83-9	Bromomethane	34.6		4.5	0.41
75-15-0	Carbon disulfide	29.5		4.5	2.3
56-23-5	Carbon tetrachloride	32.0		4.5	0.44
108-90-7	Chlorobenzene	38.3		4.5	0.60
124-48-1	Dibromochloromethane	36.5		4.5	0.58
75-00-3	Chloroethane	36.5		4.5	1.0
67-66-3	Chloroform	35.3		4.5	0.28
74-87-3	Chloromethane	28.7		4.5	0.27
156-59-2	cis-1,2-Dichloroethene	36.4		4.5	0.58
110-82-7	Cyclohexane	34.9		4.5	0.63
75-27-4	Bromodichloromethane	36.4		4.5	0.61
75-71-8	Dichlorodifluoromethane	24.8		4.5	0.37
100-41-4	Ethylbenzene	38.6		4.5	0.31
106-93-4	1,2-Dibromoethane	33.4		4.5	0.58
98-82-8	Isopropylbenzene	39.3		4.5	0.68
79-20-9	Methyl acetate	66.1		23	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 MS | Lab Sample ID: 480-139579-8 MS

Matrix: Solid | Lab File ID: F4204.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 7.062(g) | Date Analyzed: 08/02/2018 19:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	29.7		4.5	0.44
108-87-2	Methylcyclohexane	35.0		4.5	0.69
75-09-2	Methylene Chloride	33.1		4.5	2.1
127-18-4	Tetrachloroethene	36.6		4.5	0.61
108-88-3	Toluene	38.6		4.5	0.34
156-60-5	trans-1,2-Dichloroethene	35.5		4.5	0.47
10061-02-6	trans-1,3-Dichloropropene	35.1		4.5	2.0
79-01-6	Trichloroethene	38.7		4.5	1.0
75-69-4	Trichlorofluoromethane	33.1		4.5	0.43
75-01-4	Vinyl chloride	29.9		4.5	0.55
1330-20-7	Xylenes, Total	74.9		9.1	0.76
10061-01-5	cis-1,3-Dichloropropene	37.0		4.5	0.65
100-42-5	Styrene	37.7		4.5	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	89		64-126
460-00-4	4-Bromofluorobenzene (Surr)	96		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	94		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4204.D
Lims ID: 480-139579-C-8-B MS
Client ID: PDI-25-SO-14-20180725
Sample Type: MS
Inject. Date: 02-Aug-2018 19:57:30 ALS Bottle#: 16 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-8-B MS
Misc. Info.: 480-0073600-026
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 20:32:27 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: milligana Date: 02-Aug-2018 20:32:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	318428	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	86	647006	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.355	10.356	-0.001	94	599585	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.673	4.680	-0.007	94	366757	50.0	46.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.959	4.960	-0.001	97	225840	50.0	44.7	
$ 5 Toluene-d8 (Surr)	98	6.559	6.560	-0.001	92	1511253	50.0	50.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	90	485929	50.0	48.2	
10 Dichlorodifluoromethane	85	1.796	1.808	-0.012	99	275892	50.0	27.4	
12 Chloromethane	50	1.991	1.997	-0.006	99	260178	50.0	31.7	
13 Vinyl chloride	62	2.070	2.076	-0.006	98	265279	50.0	33.0	
14 Bromomethane	94	2.362	2.362	-0.006	89	173521	50.0	38.3	M
15 Chloroethane	64	2.422	2.429	-0.007	99	146515	50.0	40.3	
17 Trichlorofluoromethane	101	2.605	2.611	-0.006	98	387136	50.0	36.6	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.964	0.000	93	279416	50.0	33.8	
22 1,1-Dichloroethene	96	2.982	2.982	0.000	98	293975	50.0	35.8	
23 Acetone	43	3.031	3.037	-0.006	100	398871	250.0	119.4	
26 Carbon disulfide	76	3.189	3.189	0.000	99	865342	50.0	32.6	
27 Methyl acetate	43	3.244	3.250	-0.006	99	455534	100.0	73.0	
30 Methylene Chloride	84	3.359	3.360	-0.001	90	368184	50.0	36.6	
32 Methyl tert-butyl ether	73	3.505	3.512	-0.007	94	939034	50.0	32.8	
34 trans-1,2-Dichloroethene	96	3.536	3.542	-0.006	99	371358	50.0	39.3	
39 1,1-Dichloroethane	63	3.864	3.864	0.000	96	669778	50.0	41.4	
43 2-Butanone (MEK)	43	4.296	4.296	0.000	98	618271	250.0	142.1	
45 cis-1,2-Dichloroethene	96	4.308	4.309	-0.001	81	418763	50.0	40.3	
50 Chloroform	83	4.546	4.546	0.000	93	660849	50.0	39.0	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	497388	50.0	34.6	
52 Cyclohexane	56	4.710	4.716	-0.006	87	559924	50.0	38.6	
55 Carbon tetrachloride	117	4.807	4.814	-0.007	97	427034	50.0	35.3	
57 Benzene	78	4.984	4.984	0.000	96	1561705	50.0	42.6	
58 1,2-Dichloroethane	62	5.020	5.020	0.000	97	500501	50.0	35.8	
62 Trichloroethene	95	5.501	5.501	0.000	98	418805	50.0	42.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	5.635	5.635	0.000	87	666374	50.0	38.6	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	97	382927	50.0	44.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	100	479107	50.0	40.2	
72 cis-1,3-Dichloropropene	75	6.334	6.334	0.000	97	594377	50.0	40.9	
73 4-Methyl-2-pentanone (MIBK	43	6.438	6.438	0.000	94	1360217	250.0	165.6	
74 Toluene	92	6.620	6.620	0.000	99	989437	50.0	42.7	
77 trans-1,3-Dichloropropene	75	6.845	6.846	0.000	97	526416	50.0	38.8	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	91	263817	50.0	40.0	
81 Tetrachloroethene	166	7.143	7.144	-0.001	98	421115	50.0	40.4	
80 2-Hexanone	43	7.222	7.223	-0.001	94	981519	250.0	153.0	
83 Chlorodibromomethane	129	7.441	7.442	-0.001	90	331555	50.0	40.4	
84 Ethylene Dibromide	107	7.569	7.570	0.000	99	309956	50.0	36.9	
87 Chlorobenzene	112	8.019	8.020	-0.001	95	1062036	50.0	42.3	
88 Ethylbenzene	91	8.086	8.087	0.000	98	1783756	50.0	42.7	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	727251		41.5	
91 o-Xylene	106	8.628	8.634	-0.006	96	677582		41.3	
92 Styrene	104	8.652	8.652	0.000	95	1191375	50.0	41.6	
95 Bromoform	173	8.920	8.926	-0.006	97	188089	50.0	35.2	
94 Isopropylbenzene	105	9.005	8.999	0.006	96	1696301	50.0	43.4	
97 1,1,2,2-Tetrachloroethane	83	9.388	9.389	0.000	72	355775	50.0	36.1	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	820186	50.0	40.8	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	822349	50.0	39.9	
116 1,2-Dichlorobenzene	146	10.733	10.733	0.000	98	738403	50.0	39.9	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	87	46475	50.0	24.5	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	416800	50.0	33.7	
S 124 Xylenes, Total	1				0			82.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

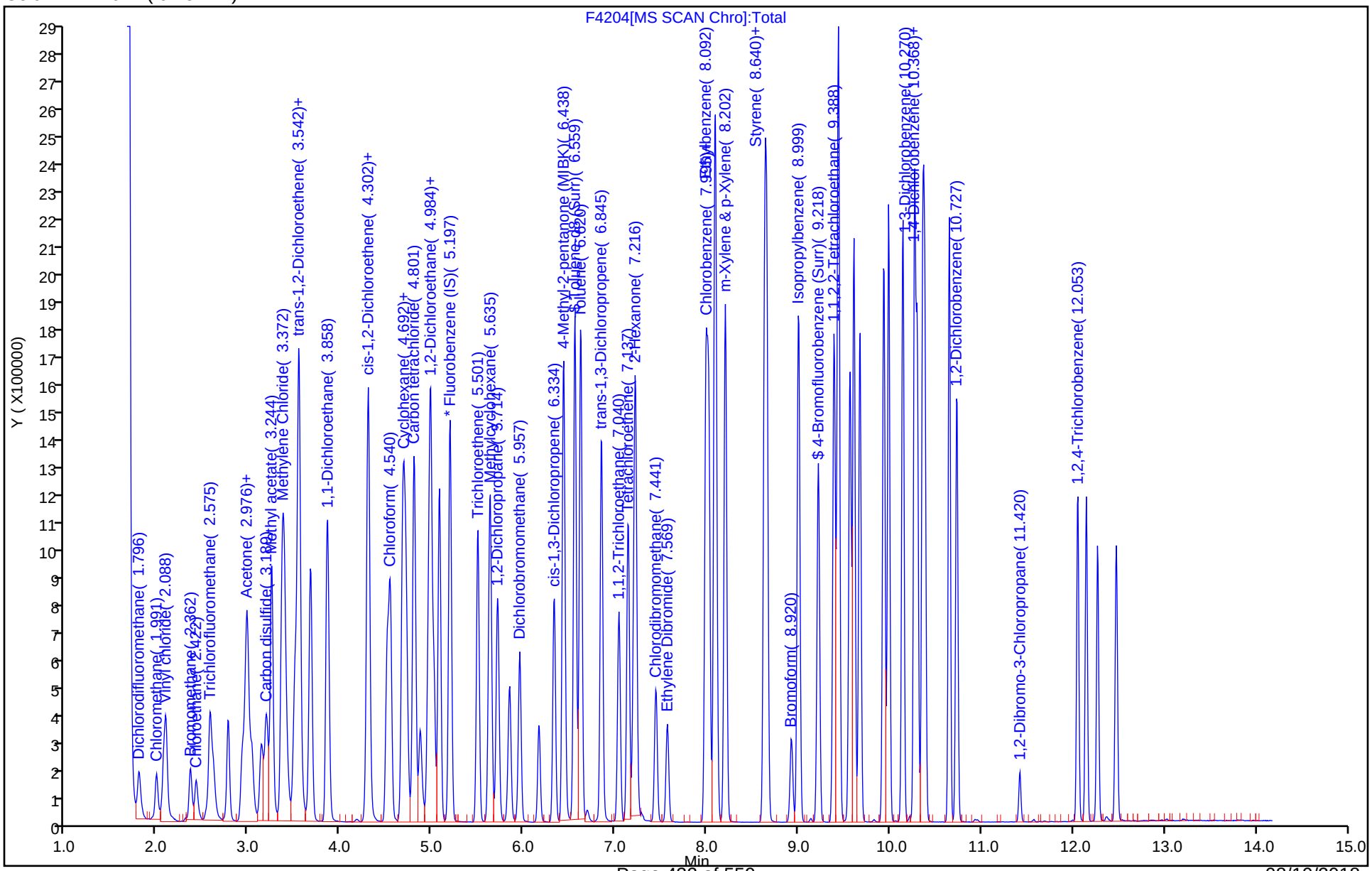
Report Date: 02-Aug-2018 20:32:29 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4204.D

Injection Date:	02-Aug-2018 19:57:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-139579-C-8-B MS			Worklist Smp#:	26
Client ID:	PDI-25-SO-14-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

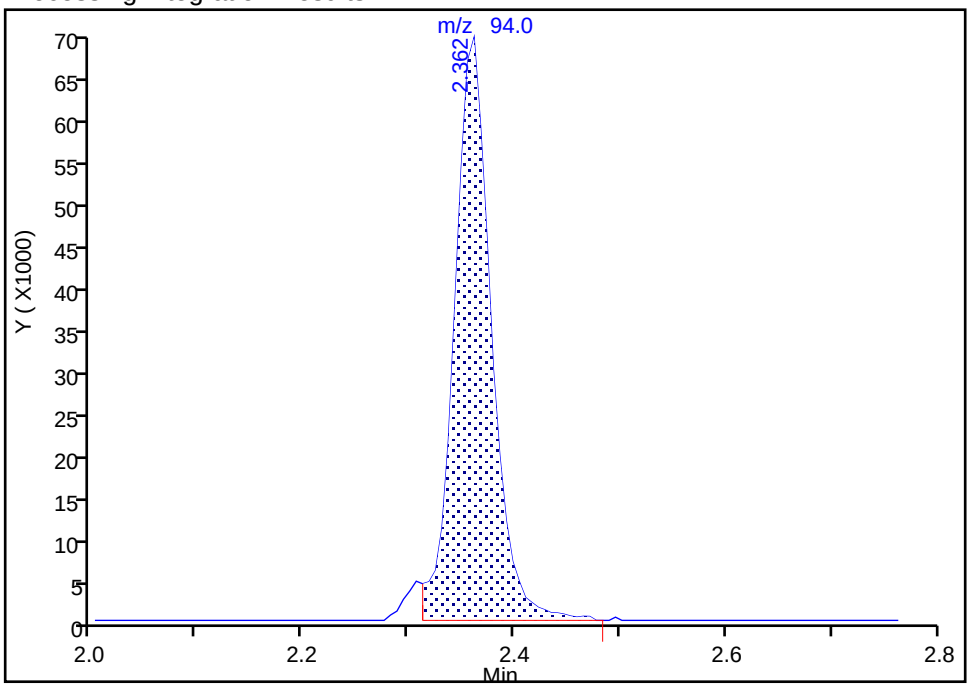
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4204.D
Injection Date: 02-Aug-2018 19:57:30 Instrument ID: HP5973F
Lims ID: 480-139579-C-8-B MS
Client ID: PDI-25-SO-14-20180725
Operator ID: CDC ALS Bottle#: 16 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

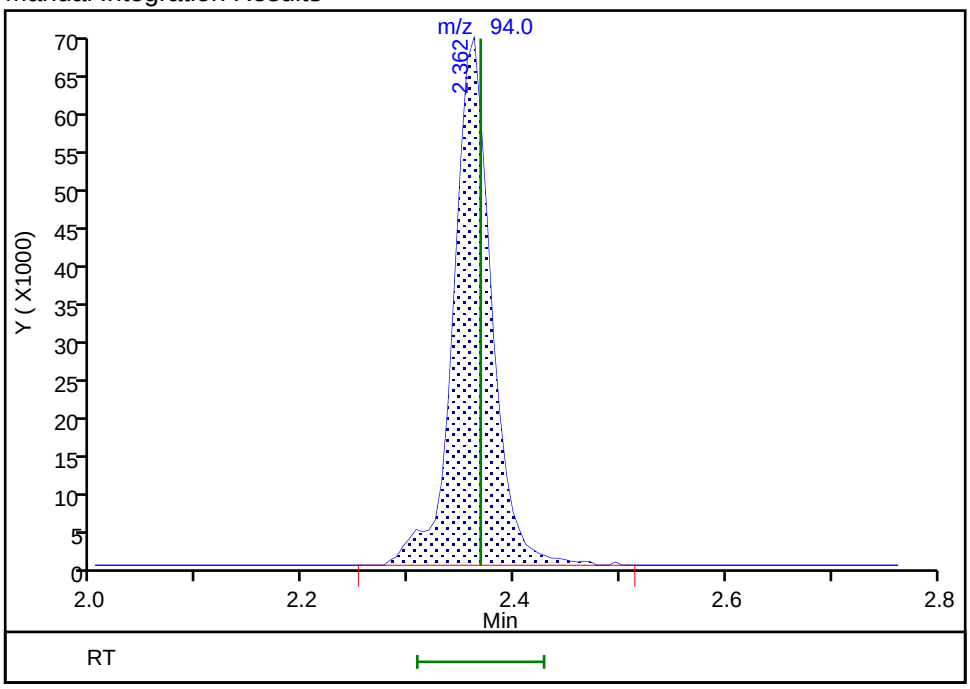
Processing Integration Results

RT: 2.36
Area: 168851
Amount: 37.242338
Amount Units: ug/kg



Manual Integration Results

RT: 2.36
Area: 173521
Amount: 38.272368
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 20:32:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 MSD | Lab Sample ID: 480-139579-8 MSD

Matrix: Solid | Lab File ID: F4205.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 7.273(g) | Date Analyzed: 08/02/2018 20:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	30.4		4.4	0.32
79-34-5	1,1,2,2-Tetrachloroethane	34.3		4.4	0.71
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.1		4.4	1.0
79-00-5	1,1,2-Trichloroethane	36.5		4.4	0.57
75-34-3	1,1-Dichloroethane	36.3		4.4	0.54
75-35-4	1,1-Dichloroethene	31.2		4.4	0.54
120-82-1	1,2,4-Trichlorobenzene	30.1		4.4	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	24.0		4.4	2.2
95-50-1	1,2-Dichlorobenzene	35.0		4.4	0.34
107-06-2	1,2-Dichloroethane	32.3		4.4	0.22
78-87-5	1,2-Dichloropropane	39.3		4.4	2.2
541-73-1	1,3-Dichlorobenzene	36.0		4.4	0.23
106-46-7	1,4-Dichlorobenzene	35.5		4.4	0.62
78-93-3	2-Butanone (MEK)	140		22	1.6
591-78-6	2-Hexanone	147		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	158		22	1.4
67-64-1	Acetone	109		22	3.7
71-43-2	Benzene	37.0		4.4	0.22
75-25-2	Bromoform	33.3		4.4	2.2
74-83-9	Bromomethane	31.9		4.4	0.40
75-15-0	Carbon disulfide	28.5		4.4	2.2
56-23-5	Carbon tetrachloride	31.0		4.4	0.43
108-90-7	Chlorobenzene	36.8		4.4	0.58
124-48-1	Dibromochloromethane	35.9		4.4	0.56
75-00-3	Chloroethane	33.9		4.4	0.99
67-66-3	Chloroform	34.4		4.4	0.27
74-87-3	Chloromethane	26.8		4.4	0.27
156-59-2	cis-1,2-Dichloroethene	35.5		4.4	0.56
110-82-7	Cyclohexane	33.7		4.4	0.62
75-27-4	Bromodichloromethane	36.1		4.4	0.59
75-71-8	Dichlorodifluoromethane	23.3		4.4	0.36
100-41-4	Ethylbenzene	36.8		4.4	0.30
106-93-4	1,2-Dibromoethane	33.8		4.4	0.56
98-82-8	Isopropylbenzene	37.3		4.4	0.66
79-20-9	Methyl acetate	71.2		22	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-139579-1

SDG No.:

Client Sample ID: PDI-25-SO-14-20180725 MSD | Lab Sample ID: 480-139579-8 MSD

Matrix: Solid | Lab File ID: F4205.D

Analysis Method: 8260C | Date Collected: 07/25/2018 09:30

Sample wt/vol: 7.273(g) | Date Analyzed: 08/02/2018 20:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.8 | Level: (low/med) Low

Analysis Batch No.: 427705 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	30.4		4.4	0.43
108-87-2	Methylcyclohexane	33.3		4.4	0.67
75-09-2	Methylene Chloride	33.3		4.4	2.0
127-18-4	Tetrachloroethene	34.9		4.4	0.59
108-88-3	Toluene	37.1		4.4	0.33
156-60-5	trans-1,2-Dichloroethene	34.3		4.4	0.45
10061-02-6	trans-1,3-Dichloropropene	35.3		4.4	1.9
79-01-6	Trichloroethene	37.0		4.4	0.97
75-69-4	Trichlorofluoromethane	30.9		4.4	0.42
75-01-4	Vinyl chloride	28.1		4.4	0.54
1330-20-7	Xylenes, Total	72.2		8.8	0.74
10061-01-5	cis-1,3-Dichloropropene	36.4		4.4	0.63
100-42-5	Styrene	36.3		4.4	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	90		64-126
460-00-4	4-Bromofluorobenzene (Surr)	97		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	95		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4205.D
Lims ID: 480-139579-C-8-C MSD
Client ID: PDI-25-SO-14-20180725
Sample Type: MSD
Inject. Date: 02-Aug-2018 20:22:30 ALS Bottle#: 17 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-C-8-C MSD
Misc. Info.: 480-0073600-027
Operator ID: CDC Instrument ID: HP5973F

Method: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 02-Aug-2018 20:33:03 Calib Date: 08-May-2018 19:07:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Buffalo\ChromData\HP5973F\20180508-71332.b\F2172.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: milligana Date: 02-Aug-2018 20:33:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.197	5.197	0.000	99	321726	50.0	50.0	
* 2 Chlorobenzene-d5	82	7.989	7.989	0.000	87	661778	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.356	10.356	0.000	94	616802	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	4.674	4.680	-0.006	93	375179	50.0	47.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	4.960	4.960	0.000	96	231066	50.0	45.2	
$ 5 Toluene-d8 (Surr)	98	6.560	6.560	0.000	93	1538918	50.0	50.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.218	9.218	0.000	91	502375	50.0	48.7	
10 Dichlorodifluoromethane	85	1.802	1.808	-0.006	99	269187	50.0	26.5	
12 Chloromethane	50	1.991	1.997	-0.006	98	252886	50.0	30.5	
13 Vinyl chloride	62	2.070	2.076	-0.006	97	259864	50.0	32.0	
14 Bromomethane	94	2.362	2.362	-0.006	89	166286	50.0	36.3	M
15 Chloroethane	64	2.423	2.429	-0.006	99	141552	50.0	38.6	
17 Trichlorofluoromethane	101	2.605	2.611	-0.006	99	376607	50.0	35.2	
21 1,1,2-Trichloro-1,2,2-trif	101	2.964	2.964	0.000	93	276397	50.0	33.1	
22 1,1-Dichloroethene	96	2.983	2.982	0.001	98	294965	50.0	35.5	
23 Acetone	43	3.031	3.037	-0.006	100	419796	250.0	124.3	
26 Carbon disulfide	76	3.189	3.189	0.000	99	870464	50.0	32.4	
27 Methyl acetate	43	3.244	3.250	-0.006	96	510391	100.0	81.0	
30 Methylene Chloride	84	3.360	3.360	0.000	90	383435	50.0	37.9	
32 Methyl tert-butyl ether	73	3.506	3.512	-0.006	94	1000692	50.0	34.6	
34 trans-1,2-Dichloroethene	96	3.542	3.542	0.000	99	373256	50.0	39.1	
39 1,1-Dichloroethane	63	3.865	3.864	0.001	96	675042	50.0	41.3	
43 2-Butanone (MEK)	43	4.297	4.296	0.001	99	700785	250.0	159.5	
45 cis-1,2-Dichloroethene	96	4.309	4.309	0.000	81	424787	50.0	40.4	
50 Chloroform	83	4.546	4.546	0.000	93	670383	50.0	39.2	
51 1,1,1-Trichloroethane	97	4.686	4.686	0.000	98	502352	50.0	34.6	
52 Cyclohexane	56	4.710	4.716	-0.006	87	562265	50.0	38.4	
55 Carbon tetrachloride	117	4.808	4.814	-0.006	97	431298	50.0	35.3	
57 Benzene	78	4.984	4.984	0.000	96	1560995	50.0	42.1	
58 1,2-Dichloroethane	62	5.021	5.020	0.000	97	519074	50.0	36.7	
62 Trichloroethene	95	5.501	5.501	0.000	99	416145	50.0	42.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	5.635	5.635	0.000	87	659437	50.0	37.8	
65 1,2-Dichloropropane	63	5.714	5.714	0.000	97	387442	50.0	44.7	
68 Dichlorobromomethane	83	5.957	5.957	0.000	100	494324	50.0	41.0	
72 cis-1,3-Dichloropropene	75	6.335	6.334	0.001	97	608144	50.0	41.4	
73 4-Methyl-2-pentanone (MIBK	43	6.432	6.438	-0.006	94	1509939	250.0	179.7	
74 Toluene	92	6.620	6.620	0.000	99	1000340	50.0	42.2	
77 trans-1,3-Dichloropropene	75	6.846	6.846	0.001	97	557421	50.0	40.1	
79 1,1,2-Trichloroethane	83	7.040	7.040	0.000	91	279701	50.0	41.5	
81 Tetrachloroethene	166	7.138	7.144	-0.006	98	423555	50.0	39.7	
80 2-Hexanone	43	7.223	7.223	0.000	94	1100613	250.0	167.7	
83 Chlorodibromomethane	129	7.442	7.442	0.000	90	343232	50.0	40.8	
84 Ethylene Dibromide	107	7.570	7.570	0.001	99	330866	50.0	38.5	
87 Chlorobenzene	112	8.020	8.020	0.000	95	1073716	50.0	41.8	
88 Ethylbenzene	91	8.087	8.087	0.001	98	1790447	50.0	41.9	
90 m-Xylene & p-Xylene	106	8.202	8.202	0.000	99	738393		41.2	
91 o-Xylene	106	8.634	8.634	0.000	96	688276		41.0	
92 Styrene	104	8.652	8.652	0.000	95	1210612	50.0	41.3	
95 Bromoform	173	8.926	8.926	0.000	97	207135	50.0	37.9	
94 Isopropylbenzene	105	8.999	8.999	0.000	96	1705969	50.0	42.4	
97 1,1,2,2-Tetrachloroethane	83	9.389	9.389	0.001	73	395269	50.0	39.0	
111 1,3-Dichlorobenzene	146	10.295	10.295	0.000	98	847831	50.0	41.0	
113 1,4-Dichlorobenzene	146	10.380	10.380	0.000	95	855902	50.0	40.3	
116 1,2-Dichlorobenzene	146	10.733	10.733	0.000	98	760038	50.0	39.9	
117 1,2-Dibromo-3-Chloropropan	75	11.420	11.414	0.006	88	53370	50.0	27.4	
119 1,2,4-Trichlorobenzene	180	12.053	12.053	0.000	94	435584	50.0	34.2	
S 124 Xylenes, Total	1				0			82.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00051 Amount Added: 1.00 Units: uL Run Reagent

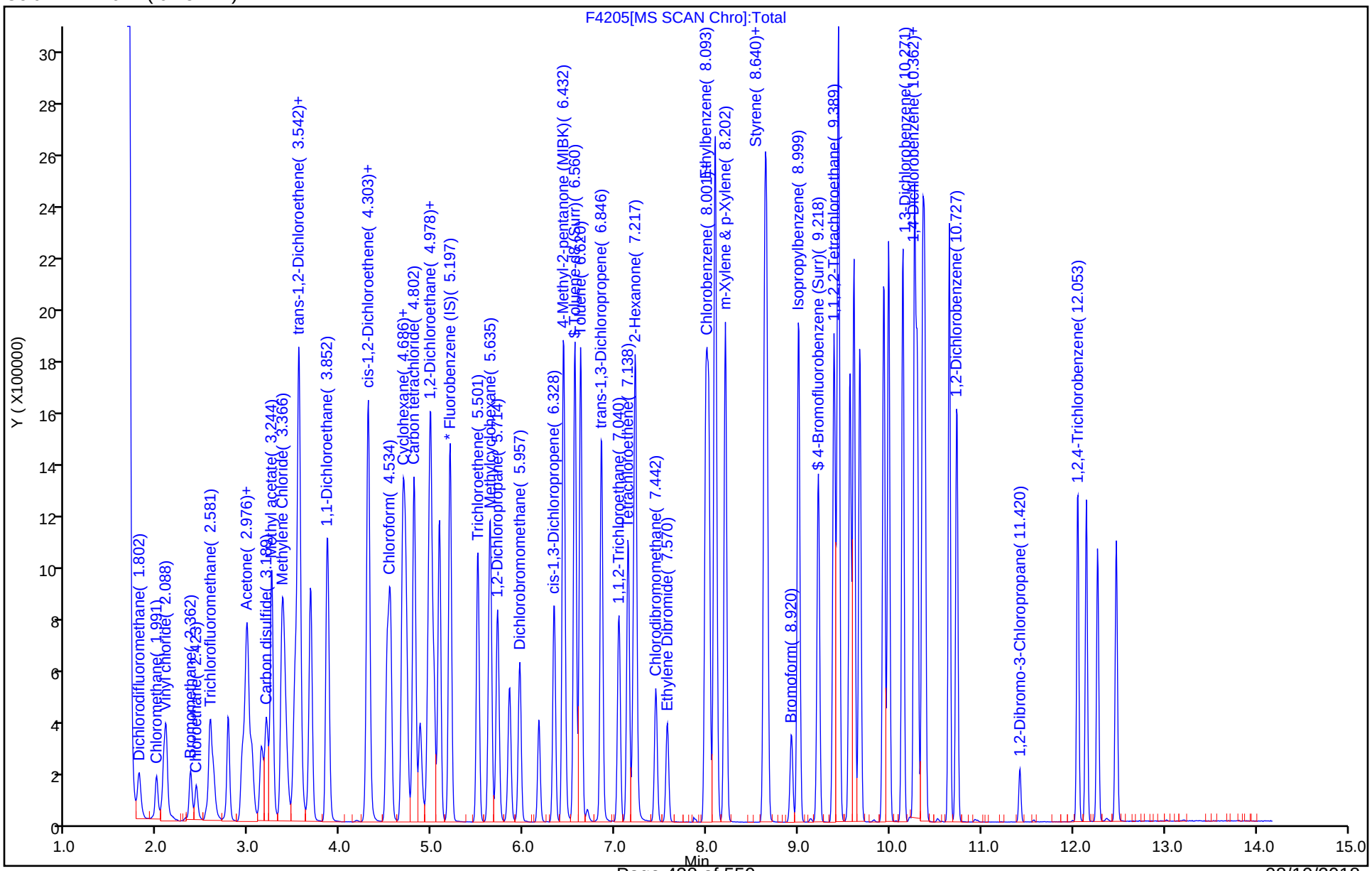
Report Date: 02-Aug-2018 20:33:05 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Buffalo

Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4205.D

Injection Date:	02-Aug-2018 20:22:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-139579-C-8-C MSD			Worklist Smp#:	27
Client ID:	PDI-25-SO-14-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

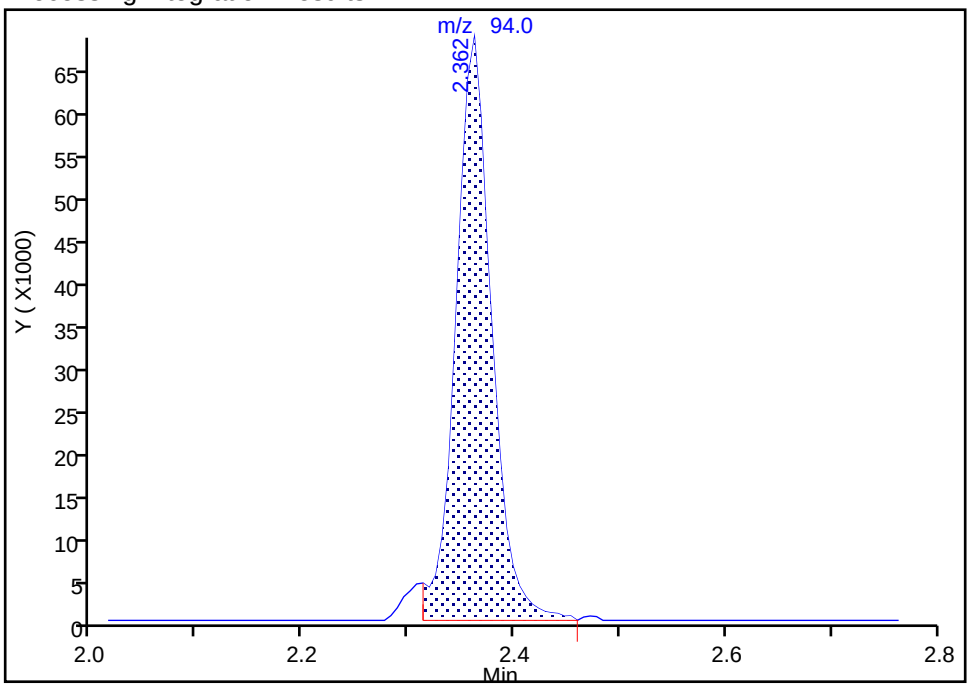
Data File: \\ChromNA\Buffalo\ChromData\HP5973F\20180802-73600.b\F4205.D
Injection Date: 02-Aug-2018 20:22:30 Instrument ID: HP5973F
Lims ID: 480-139579-C-8-C MSD
Client ID: PDI-25-SO-14-20180725
Operator ID: CDC ALS Bottle#: 17 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

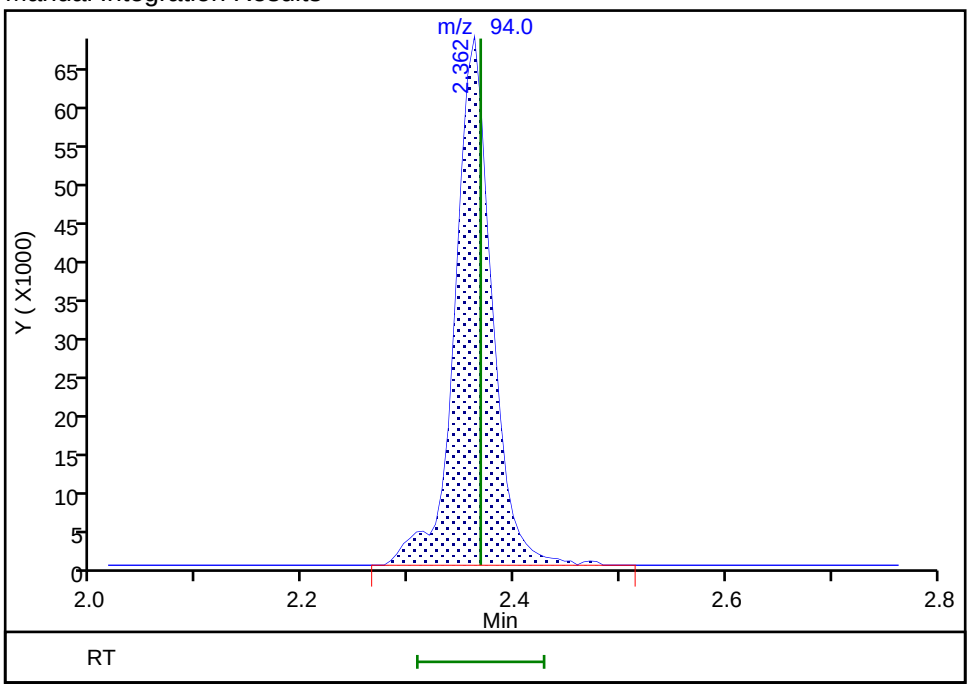
Processing Integration Results

RT: 2.36
Area: 161195
Amount: 35.189245
Amount Units: ug/kg



Manual Integration Results

RT: 2.36
Area: 166286
Amount: 36.300622
Amount Units: ug/kg



Reviewer: milligana, 02-Aug-2018 20:32:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MS | Lab Sample ID: 480-139579-10 MS

Matrix: Water | Lab File ID: F68516.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 02:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.1		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	23.5		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.2		1.0	0.31
79-00-5	1,1,2-Trichloroethane	24.4		1.0	0.43
75-34-3	1,1-Dichloroethane	24.6		1.0	0.26
75-35-4	1,1-Dichloroethene	22.5		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	21.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	23.7		1.0	0.38
95-50-1	1,2-Dichlorobenzene	21.8		1.0	0.43
107-06-2	1,2-Dichloroethane	23.1		1.0	0.43
78-87-5	1,2-Dichloropropane	23.8		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.3		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.1		1.0	0.76
78-93-3	2-Butanone (MEK)	88.2		5.0	1.9
591-78-6	2-Hexanone	101		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	113		5.0	2.7
67-64-1	Acetone	117		5.0	5.0
71-43-2	Benzene	25.3		1.0	0.43
75-25-2	Bromoform	20.0		1.0	0.54
74-83-9	Bromomethane	16.8		1.0	1.0
75-15-0	Carbon disulfide	21.8		1.0	0.16
56-23-5	Carbon tetrachloride	20.5		1.0	0.21
108-90-7	Chlorobenzene	22.2		1.0	0.38
124-48-1	Dibromochloromethane	20.6		1.0	0.28
75-00-3	Chloroethane	20.5		1.0	0.32
67-66-3	Chloroform	22.6		1.0	0.33
74-87-3	Chloromethane	24.7		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	23.1		1.0	0.22
110-82-7	Cyclohexane	23.0		1.0	0.32
75-27-4	Bromodichloromethane	21.2		1.0	0.34
75-71-8	Dichlorodifluoromethane	22.5		1.0	0.12
100-41-4	Ethylbenzene	22.0		1.0	0.30
106-93-4	1,2-Dibromoethane	21.7		1.0	0.50
98-82-8	Isopropylbenzene	23.5		1.0	0.34
79-20-9	Methyl acetate	62.6		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MS | Lab Sample ID: 480-139579-10 MS

Matrix: Water | Lab File ID: F68516.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 02:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	23.0		1.0	0.47
108-87-2	Methylcyclohexane	22.7		1.0	0.26
75-09-2	Methylene Chloride	22.6		1.0	0.32
127-18-4	Tetrachloroethene	24.4		1.0	0.25
108-88-3	Toluene	23.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	22.4		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	22.9		1.0	0.49
79-01-6	Trichloroethene	66.3		1.0	0.31
75-69-4	Trichlorofluoromethane	21.9		1.0	0.14
75-01-4	Vinyl chloride	21.8		1.0	0.17
1330-20-7	Xylenes, Total	44.3		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	23.3		1.0	0.46
100-42-5	Styrene	20.5		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68516.D
Lims ID: 480-139579-G-10 MS
Client ID: MW-161-3-20180725
Sample Type: MS
Inject. Date: 01-Aug-2018 02:40:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-G-10 MS
Misc. Info.: 460-0076414-016
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 15:07:52 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 15:01:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	89	39897	20.0	20.1	
2 Dichlorodifluoromethane	85	1.566	1.566	0.000	98	107928	20.0	22.5	
3 Chloromethane	50	1.747	1.739	0.009	98	144628	20.0	24.7	
4 Vinyl chloride	62	1.829	1.829	0.000	98	127495	20.0	21.8	
5 Butadiene	54	1.837	1.829	0.008	96	117799	20.0	22.1	
6 Bromomethane	94	2.116	2.108	0.008	98	67957	20.0	16.8	
7 Chloroethane	64	2.174	2.174	0.000	99	71179	20.0	20.5	
8 Dichlorofluoromethane	67	2.355	2.347	0.008	99	173389	20.0	23.5	
10 Pentane	72	2.363	2.355	0.008	97	27611	40.0	41.7	
9 Trichlorofluoromethane	101	2.363	2.355	0.008	52	118409	20.0	21.9	
12 Ethyl ether	59	2.552	2.544	0.008	98	61847	20.0	25.6	
11 Ethanol	46	2.544	2.552	-0.008	79	4764	800.0	571.0	
13 2-Methyl-1,3-butadiene	53	2.568	2.560	0.008	97	68645	20.0	24.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.609	0.017	96	62486	20.0	21.7	
15 Acrolein	56	2.733	2.716	0.017	30	4374	40.0	21.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.733	0.008	95	77888	20.0	23.2	
17 1,1-Dichloroethene	96	2.757	2.749	0.008	96	70002	20.0	22.5	
18 Acetone	43	2.848	2.840	0.008	86	96012	100.0	116.9	
19 Iodomethane	142	2.914	2.905	0.009	97	119039	20.0	21.2	
20 Isopropyl alcohol	45	2.938	2.938	0.000	29	38885	200.0	316.9	
21 Carbon disulfide	76	2.946	2.938	0.008	100	271674	20.0	21.8	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	94	167902	20.0	28.2	
24 Methyl acetate	43	3.070	3.070	0.000	98	112962	40.0	62.6	
23 Cyclopentene	67	3.086	3.078	0.008	96	181954	20.0	23.0	
25 Acetonitrile	41	3.144	3.135	0.009	95	103836	200.0	287.2	a
27 Methylene Chloride	84	3.193	3.185	0.008	97	86516	20.0	22.6	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	104911	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.250	0.000	91	47652	200.0	216.0	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	98	211895	20.0	23.0	
30 trans-1,2-Dichloroethene	96	3.374	3.365	0.009	98	77149	20.0	22.4	
31 Acrylonitrile	53	3.448	3.439	0.009	96	282322	200.0	274.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.522	3.513	0.009	94	76497	20.0	27.2	
33 Isopropyl ether	45	3.719	3.719	0.000	98	293010	20.0	27.8	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	150415	20.0	24.6	
35 Vinyl acetate	86	3.768	3.768	0.000	100	19584	40.0	33.1	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	93	66032	20.0	21.7	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	88	242889	20.0	24.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	144034	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.253	0.008	95	25592	20.0	19.8	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	93	89507	20.0	23.1	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	95	33651	100.0	88.2	
42 Ethyl acetate	70	4.286	4.286	0.000	94	12761	40.0	33.5	
43 Methyl acrylate	55	4.351	4.343	0.008	98	49101	20.0	26.0	
44 Propionitrile	54	4.425	4.417	0.008	98	101204	200.0	259.3	
45 Chlorobromomethane	128	4.499	4.491	0.008	98	37652	20.0	21.1	
46 Tetrahydrofuran	72	4.499	4.499	0.000	57	17398	40.0	40.0	
47 Methacrylonitrile	67	4.516	4.516	0.000	95	273611	200.0	244.4	
48 Chloroform	83	4.549	4.540	0.009	98	125189	20.0	22.6	
49 Cyclohexane	84	4.680	4.680	0.000	95	118824	20.0	23.0	
50 1,1,1-Trichloroethane	97	4.697	4.688	0.009	97	104114	20.0	21.1	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	64640	50.0	48.1	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	82143	20.0	20.5	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	99061	20.0	22.7	
54 Isobutyl alcohol	43	4.992	4.984	0.008	42	103931	500.0	585.5	
55 Benzene	78	5.033	5.033	0.000	97	310646	20.0	25.3	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	72925	50.0	50.8	
57 Isopropyl acetate	43	5.083	5.083	0.000	94	174177	20.0	22.1	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	235915	20.0	22.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	92033	20.0	23.1	
60 n-Heptane	57	5.173	5.173	0.000	94	60704	20.0	25.1	
* 61 Fluorobenzene	96	5.321	5.313	0.008	98	269401	50.0	50.0	
62 n-Butanol	56	5.642	5.642	0.000	91	20289	500.0	382.7	
63 Trichloroethene	95	5.666	5.666	0.000	97	220137	20.0	66.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	179466	20.0	24.9	
64 Methylcyclohexane	83	5.789	5.789	0.000	86	132863	20.0	22.7	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	90	81922	20.0	23.8	
* 67 1,4-Dioxane-d8	96	6.019	6.020	-0.001	0	8307	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	92	26905	40.0	38.8	
69 1,4-Dioxane	88	6.085	6.077	0.008	28	8316	400.0	524.5	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	76331	20.0	23.9	
71 Dibromomethane	93	6.085	6.085	0.000	78	41562	20.0	21.2	
72 Dichlorobromomethane	83	6.241	6.233	0.008	98	88592	20.0	21.2	
73 2-Nitropropane	41	6.570	6.562	0.008	98	27724	40.0	46.5	
75 Epichlorohydrin	57	6.685	6.677	0.008	98	54671	400.0	189.5	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	95	103662	20.0	23.3	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.891	0.000	99	333955	100.0	113.4	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	98	241726	50.0	49.9	
79 Toluene	91	7.055	7.047	0.008	93	287718	20.0	23.2	
80 trans-1,3-Dichloropropene	75	7.408	7.400	0.008	98	84913	20.0	22.9	
81 Ethyl methacrylate	69	7.425	7.425	0.000	92	76109	20.0	25.0	
82 1,1,2-Trichloroethane	83	7.614	7.614	0.000	95	50286	20.0	24.4	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	73936	20.0	24.4	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	97	94947	20.0	24.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 2-Hexanone	43	7.893	7.885	0.008	99	175285	100.0	100.9	
86 n-Butyl acetate	43	8.008	8.000	0.008	99	100037	20.0	28.5	
87 Chlorodibromomethane	129	8.057	8.057	0.000	98	55089	20.0	20.6	
88 Ethylene Dibromide	107	8.213	8.213	0.000	99	48865	20.0	21.7	
* 89 Chlorobenzene-d5	117	8.756	8.756	0.000	88	175710	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	173055	20.0	22.2	
91 Ethylbenzene	106	8.895	8.895	0.000	99	99328	20.0	22.0	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	94	61714	20.0	20.9	
93 m-Xylene & p-Xylene	106	9.052	9.052	0.000	0	120858	20.0	22.5	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	45242	20.0	22.3	
95 o-Xylene	106	9.495	9.495	0.000	93	120966	20.0	21.8	
96 Styrene	104	9.528	9.528	0.000	94	176925	20.0	20.5	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	89	116227	20.0	26.9	
98 Bromoform	173	9.742	9.734	0.008	96	34246	20.0	20.0	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	313732	20.0	23.5	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	89	69444	50.0	49.0	
101 Bromobenzene	156	10.144	10.144	0.000	96	72133	20.0	21.1	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	75736	20.0	23.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	374522	20.0	23.9	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	95	19935	20.0	21.9	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	79	18845	20.0	26.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	260374	20.0	23.6	
107 4-Ethyltoluene	105	10.292	10.292	0.000	87	306094	20.0	23.7	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	263070	20.0	23.1	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	232199	20.0	23.8	
110 Butyl Methacrylate	87	10.432	10.424	0.008	95	86365	20.0	22.5	
111 tert-Butylbenzene	119	10.580	10.580	0.000	94	201586	20.0	22.0	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	263671	20.0	22.8	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	329371	20.0	23.3	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	268847	20.0	22.5	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	93	142637	20.0	21.3	
* 116 1,4-Dichlorobenzene-d4	152	10.900	10.900	0.000	95	98828	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	93	145979	20.0	21.1	
132 1,2,3-Trimethylbenzene	105	10.925	10.925	0.000	98	278480	20.0	22.6	
118 Benzyl chloride	91	11.015	11.015	0.000	98	123120	20.0	20.0	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	276804	20.0	22.4	
120 p-Diethylbenzene	119	11.098	11.098	0.000	93	167652	20.0	22.8	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	153901	20.0	22.6	
122 1,2-Dichlorobenzene	146	11.163	11.172	-0.009	94	146435	20.0	21.8	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.582	-0.008	98	241140	20.0	21.0	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	14038	20.0	23.7	
125 1,3,5-Trichlorobenzene	180	11.738	11.747	-0.009	96	115056	20.0	22.0	
126 1,2,4-Trichlorobenzene	180	12.141	12.149	-0.008	95	100773	20.0	21.7	
127 Hexachlorobutadiene	225	12.199	12.207	-0.008	95	44080	20.0	20.0	
128 Naphthalene	128	12.314	12.314	0.000	99	225584	20.0	22.9	
129 1,2,3-Trichlorobenzene	180	12.470	12.478	-0.008	94	95468	20.0	21.4	
S 130 1,2-Dichloroethene, Total	100				0		40.0	45.5	
S 131 Xylenes, Total	100				0		40.0	44.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

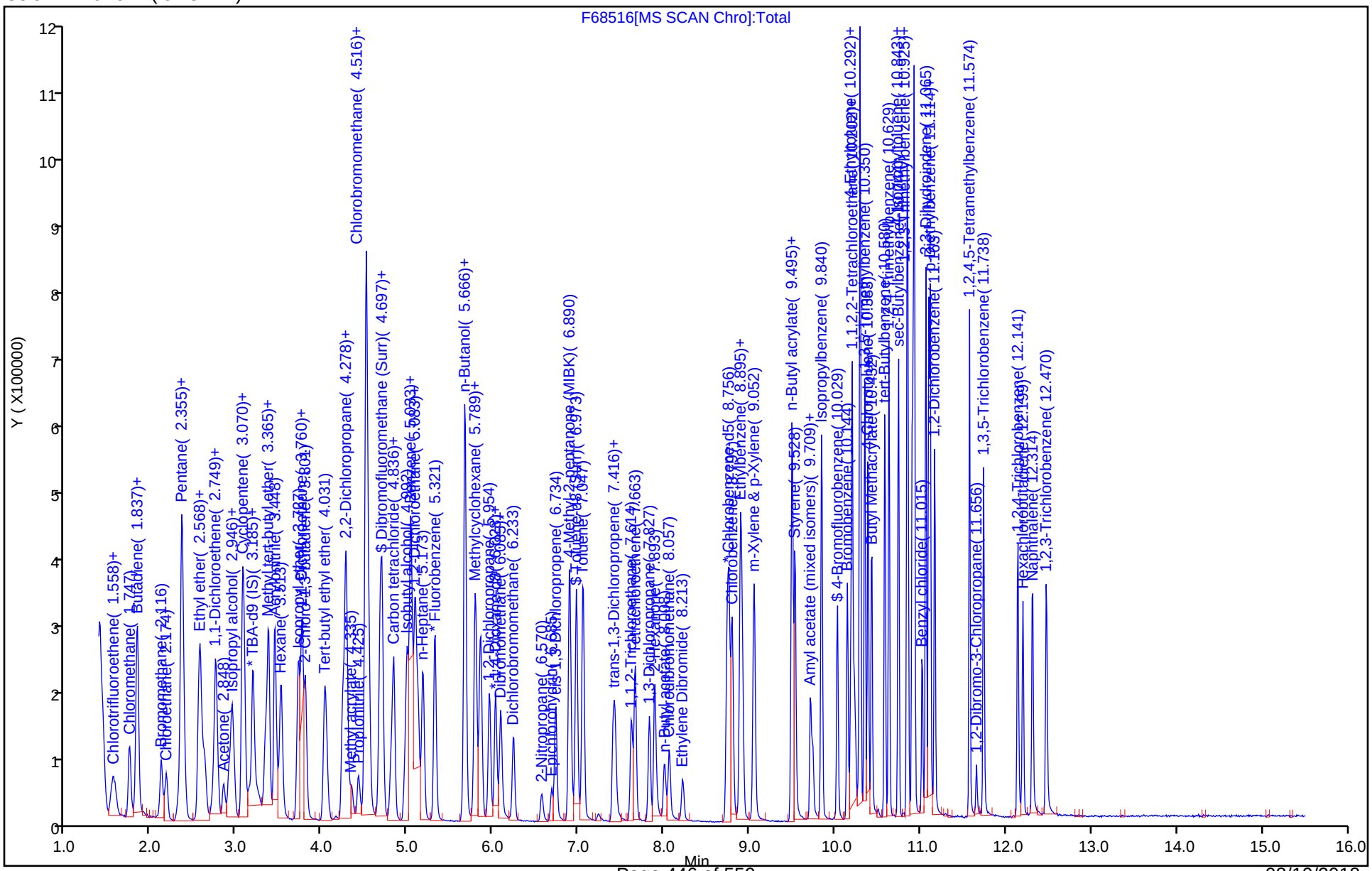
Report Date: 01-Aug-2018 15:07:55 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68516.D

Injection Date:	01-Aug-2018 02:40:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-G-10 MS			Worklist Smp#:	16
Client ID:	MW-161-3-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MSD | Lab Sample ID: 480-139579-10 MSD

Matrix: Water | Lab File ID: F68517.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 03:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.7		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	22.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	20.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	21.6		1.0	0.43
75-34-3	1,1-Dichloroethane	22.1		1.0	0.26
75-35-4	1,1-Dichloroethene	19.6		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	21.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	22.4		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.9		1.0	0.43
107-06-2	1,2-Dichloroethane	20.5		1.0	0.43
78-87-5	1,2-Dichloropropane	21.8		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.5		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.4		1.0	0.76
78-93-3	2-Butanone (MEK)	83.3		5.0	1.9
591-78-6	2-Hexanone	90.1		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	103		5.0	2.7
67-64-1	Acetone	106		5.0	5.0
71-43-2	Benzene	22.1		1.0	0.43
75-25-2	Bromoform	17.6		1.0	0.54
74-83-9	Bromomethane	16.3		1.0	1.0
75-15-0	Carbon disulfide	19.5		1.0	0.16
56-23-5	Carbon tetrachloride	18.6		1.0	0.21
108-90-7	Chlorobenzene	19.7		1.0	0.38
124-48-1	Dibromochloromethane	18.3		1.0	0.28
75-00-3	Chloroethane	20.7		1.0	0.32
67-66-3	Chloroform	20.3		1.0	0.33
74-87-3	Chloromethane	23.8		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	20.7		1.0	0.22
110-82-7	Cyclohexane	20.8		1.0	0.32
75-27-4	Bromodichloromethane	18.8		1.0	0.34
75-71-8	Dichlorodifluoromethane	21.8		1.0	0.12
100-41-4	Ethylbenzene	19.0		1.0	0.30
106-93-4	1,2-Dibromoethane	19.4		1.0	0.50
98-82-8	Isopropylbenzene	20.5		1.0	0.34
79-20-9	Methyl acetate	56.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MSD | Lab Sample ID: 480-139579-10 MSD

Matrix: Water | Lab File ID: F68517.D

Analysis Method: 8260C | Date Collected: 07/25/2018 12:25

Sample wt/vol: 5(mL) | Date Analyzed: 08/01/2018 03:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

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

Analysis Batch No.: 541118 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.6		1.0	0.47
108-87-2	Methylcyclohexane	20.4		1.0	0.26
75-09-2	Methylene Chloride	20.3		1.0	0.32
127-18-4	Tetrachloroethene	21.8		1.0	0.25
108-88-3	Toluene	20.4		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	20.4		1.0	0.49
79-01-6	Trichloroethene	62.3		1.0	0.31
75-69-4	Trichlorofluoromethane	20.8		1.0	0.14
75-01-4	Vinyl chloride	21.3		1.0	0.17
1330-20-7	Xylenes, Total	39.8		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	20.5		1.0	0.46
100-42-5	Styrene	18.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68517.D
Lims ID: 480-139579-G-10 MSD
Client ID: MW-161-3-20180725
Sample Type: MSD
Inject. Date: 01-Aug-2018 03:03:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-139579-G-10 MSD
Misc. Info.: 460-0076414-017
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Aug-2018 15:08:25 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: kaewink Date: 01-Aug-2018 15:03:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.533	-0.008	91	34041	20.0	17.5	
2 Dichlorodifluoromethane	85	1.566	1.566	0.000	99	102276	20.0	21.8	
3 Chloromethane	50	1.738	1.739	0.000	99	136246	20.0	23.8	
4 Vinyl chloride	62	1.821	1.829	-0.008	97	122176	20.0	21.3	
5 Butadiene	54	1.829	1.829	0.000	95	112264	20.0	21.6	
6 Bromomethane	94	2.108	2.108	0.000	98	64383	20.0	16.3	
7 Chloroethane	64	2.174	2.174	0.000	99	70606	20.0	20.7	
8 Dichlorofluoromethane	67	2.346	2.347	-0.001	98	160122	20.0	22.2	
10 Pentane	72	2.355	2.355	0.000	97	23896	40.0	35.0	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	97	110087	20.0	20.8	
12 Ethyl ether	59	2.544	2.544	0.000	92	55933	20.0	23.6	
11 Ethanol	46	2.544	2.552	-0.008	77	4385	800.0	510.2	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	98	59910	20.0	21.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.609	0.009	97	55532	20.0	19.7	
15 Acrolein	56	2.724	2.716	0.008	92	4222	40.0	20.1	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.733	0.008	94	65532	20.0	20.0	
17 1,1-Dichloroethene	96	2.749	2.749	0.000	95	59736	20.0	19.6	
18 Acetone	43	2.839	2.840	-0.001	87	85741	100.0	106.5	
19 Iodomethane	142	2.905	2.905	0.000	97	106292	20.0	19.3	
20 Isopropyl alcohol	45	2.930	2.938	-0.008	40	28363	200.0	224.3	
21 Carbon disulfide	76	2.946	2.938	0.008	100	237678	20.0	19.5	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	94	150764	20.0	25.8	
24 Methyl acetate	43	3.070	3.070	0.000	99	99234	40.0	56.1	
23 Cyclopentene	67	3.078	3.078	0.000	95	162497	20.0	21.0	
25 Acetonitrile	41	3.143	3.135	0.008	95	94639	200.0	254.1	a
27 Methylene Chloride	84	3.185	3.185	0.000	99	76240	20.0	20.3	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	108085	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.250	0.000	96	44132	200.0	194.2	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	98	186309	20.0	20.6	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	98	67303	20.0	20.0	
31 Acrylonitrile	53	3.439	3.439	0.000	96	254949	200.0	252.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.513	0.000	94	68675	20.0	25.0	
33 Isopropyl ether	45	3.719	3.719	0.000	97	263071	20.0	25.5	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	132406	20.0	22.1	
35 Vinyl acetate	86	3.768	3.768	0.000	100	18290	40.0	31.6	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	93	57319	20.0	19.3	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	217486	20.0	22.5	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	141254	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.253	0.008	94	22112	20.0	17.5	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	92	78601	20.0	20.7	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	95	31174	100.0	83.3	
42 Ethyl acetate	70	4.286	4.286	0.000	96	10708	40.0	28.7	
43 Methyl acrylate	55	4.343	4.343	0.000	99	41248	20.0	21.8	
44 Propionitrile	54	4.417	4.417	0.000	98	87536	200.0	217.7	
45 Chlorobromomethane	128	4.499	4.491	0.008	98	32028	20.0	18.3	
46 Tetrahydrofuran	72	4.507	4.499	0.008	54	15811	40.0	37.0	
47 Methacrylonitrile	67	4.516	4.516	0.000	95	240560	200.0	219.5	
48 Chloroform	83	4.549	4.540	0.009	98	109949	20.0	20.3	
49 Cyclohexane	84	4.672	4.680	-0.008	95	105079	20.0	20.8	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	95	90321	20.0	18.7	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	62896	50.0	47.8	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	96	72980	20.0	18.6	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	94	89479	20.0	21.0	
54 Isobutyl alcohol	43	4.984	4.984	0.000	89	93185	500.0	509.5	
55 Benzene	78	5.033	5.033	0.000	96	272085	20.0	22.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	71993	50.0	51.3	
57 Isopropyl acetate	43	5.083	5.083	0.000	96	168105	20.0	21.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	216040	20.0	21.0	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	80112	20.0	20.5	
60 n-Heptane	57	5.173	5.173	0.000	94	52153	20.0	22.0	
* 61 Fluorobenzene	96	5.313	5.313	0.000	98	263757	50.0	50.0	
62 n-Butanol	56	5.641	5.642	-0.001	91	17553	500.0	321.7	
63 Trichloroethene	95	5.666	5.666	0.000	98	202606	20.0	62.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	92	158937	20.0	22.5	
64 Methylcyclohexane	83	5.789	5.789	0.000	87	117085	20.0	20.4	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	90	73472	20.0	21.8	
* 67 1,4-Dioxane-d8	96	6.028	6.020	0.008	0	7646	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	92	24754	40.0	36.5	
69 1,4-Dioxane	88	6.077	6.077	0.000	25	8142	400.0	557.9	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	68668	20.0	22.0	
71 Dibromomethane	93	6.085	6.085	0.000	80	35604	20.0	18.6	
72 Dichlorobromomethane	83	6.233	6.233	0.000	98	77028	20.0	18.8	
73 2-Nitropropane	41	6.570	6.562	0.008	99	23819	40.0	40.8	
75 Epichlorohydrin	57	6.685	6.677	0.008	99	43364	400.0	153.3	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	96	91412	20.0	20.5	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.891	0.000	98	297988	100.0	103.1	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	98	236090	50.0	48.6	
79 Toluene	91	7.046	7.047	-0.001	94	252980	20.0	20.4	
80 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	98	75898	20.0	20.4	
81 Ethyl methacrylate	69	7.424	7.425	-0.001	92	66507	20.0	21.8	
82 1,1,2-Trichloroethane	83	7.613	7.614	-0.001	95	44629	20.0	21.6	
83 Tetrachloroethene	166	7.655	7.663	-0.008	94	66141	20.0	21.8	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	98	86965	20.0	22.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 2-Hexanone	43	7.893	7.885	0.008	99	152873	100.0	90.1	
86 n-Butyl acetate	43	8.000	8.000	0.000	99	86618	20.0	24.7	
87 Chlorodibromomethane	129	8.057	8.057	0.000	97	49191	20.0	18.3	
88 Ethylene Dibromide	107	8.213	8.213	0.000	98	43768	20.0	19.4	
* 89 Chlorobenzene-d5	117	8.764	8.756	0.008	88	176154	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	93	153815	20.0	19.7	
91 Ethylbenzene	106	8.895	8.895	0.000	99	85750	20.0	19.0	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	94	55933	20.0	18.9	
93 m-Xylene & p-Xylene	106	9.051	9.052	-0.001	0	107345	20.0	19.9	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	39040	20.0	19.3	
95 o-Xylene	106	9.503	9.495	0.008	93	110834	20.0	19.9	
96 Styrene	104	9.528	9.528	0.000	93	155314	20.0	18.0	
97 Amyl acetate (mixed isomer	43	9.709	9.709	0.000	89	96572	20.0	23.7	
98 Bromoform	173	9.742	9.734	0.008	95	30279	20.0	17.6	
99 Isopropylbenzene	105	9.840	9.840	0.000	97	274268	20.0	20.5	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	87	65943	50.0	46.4	
101 Bromobenzene	156	10.144	10.144	0.000	95	65810	20.0	20.4	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	69573	20.0	22.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	333555	20.0	22.6	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	93	17960	20.0	20.9	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	15561	20.0	22.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	232254	20.0	22.3	
107 4-Ethyltoluene	105	10.292	10.292	0.000	87	269314	20.0	22.1	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	231987	20.0	21.6	
109 4-Chlorotoluene	91	10.383	10.383	0.000	98	205460	20.0	22.3	
110 Butyl Methacrylate	87	10.432	10.424	0.008	96	73643	20.0	20.3	
111 tert-Butylbenzene	119	10.580	10.580	0.000	94	177839	20.0	20.5	
112 1,2,4-Trimethylbenzene	105	10.629	10.629	0.000	98	232844	20.0	21.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	98	289991	20.0	21.7	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	240779	20.0	21.4	
115 1,3-Dichlorobenzene	146	10.851	10.851	0.000	95	129800	20.0	20.5	
* 116 1,4-Dichlorobenzene-d4	152	10.900	10.900	0.000	96	93309	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.917	10.917	0.000	92	132783	20.0	20.4	
132 1,2,3-Trimethylbenzene	105	10.925	10.925	0.000	98	252376	20.0	21.7	
118 Benzyl chloride	91	11.023	11.015	0.008	98	108954	20.0	18.8	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	258240	20.0	22.1	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	93	152332	20.0	21.9	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	139414	20.0	21.7	
122 1,2-Dichlorobenzene	146	11.171	11.172	-0.001	96	132476	20.0	20.9	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.582	-0.008	98	214307	20.0	19.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	92	12567	20.0	22.4	
125 1,3,5-Trichlorobenzene	180	11.738	11.747	-0.009	96	105470	20.0	21.4	
126 1,2,4-Trichlorobenzene	180	12.141	12.149	-0.008	94	95305	20.0	21.7	
127 Hexachlorobutadiene	225	12.198	12.207	-0.009	92	38109	20.0	18.3	
128 Naphthalene	128	12.314	12.314	0.000	99	207618	20.0	22.3	
129 1,2,3-Trichlorobenzene	180	12.470	12.478	-0.008	95	91165	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.7	
S 131 Xylenes, Total	100				0		40.0	39.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00084	Amount Added:	20.00	Units: uL	
ACROLEIN W_00079	Amount Added:	4.00	Units: uL	
GASES Li_00271	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00012	Amount Added:	5.00	Units: uL	Run Reagent

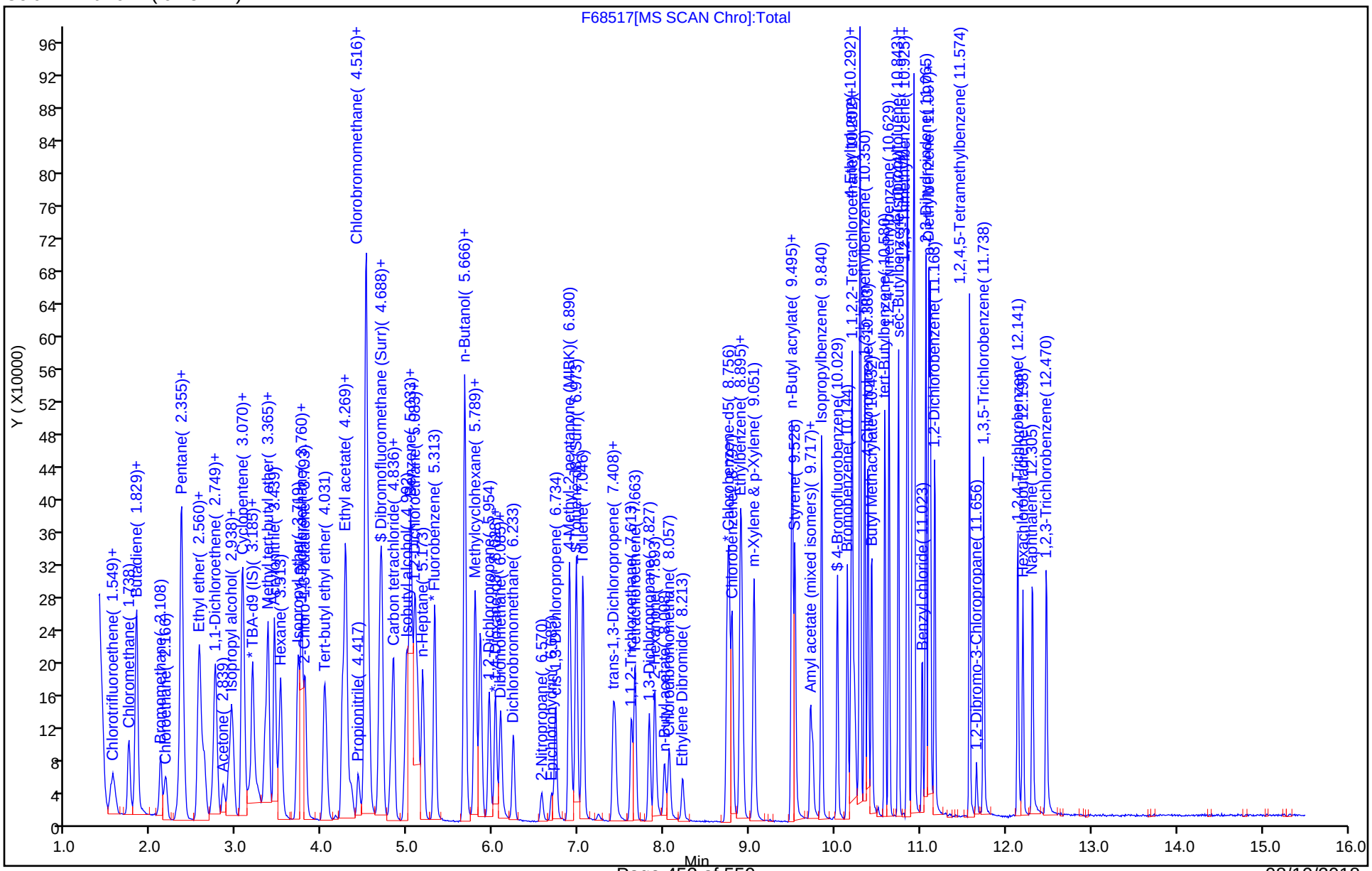
Report Date: 01-Aug-2018 15:08:28 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180731-76414.b\F68517.D

Injection Date:	01-Aug-2018 03:03:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	480-139579-G-10 MSD			Worklist Smp#:	17
Client ID:	MW-161-3-20180725				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Instrument ID: HP5973F Start Date: 05/08/2018 12:17

Analysis Batch Number: 413081 End Date: 05/08/2018 21:16

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-413081/4		05/08/2018 12:17	1	F2156.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/6		05/08/2018 13:08	1	F2158.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/7		05/08/2018 13:33	1	F2159.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/8		05/08/2018 13:59	1	F2160.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/9		05/08/2018 14:25	1	F2161.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-413081/10		05/08/2018 14:50	1	F2162.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/11		05/08/2018 15:15	1	F2163.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/12		05/08/2018 15:41	1	F2164.D	ZB-624 (30) VOA 0.25(mm)
IC 480-413081/14		05/08/2018 16:32	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/15		05/08/2018 16:58	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/16		05/08/2018 17:24	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/17		05/08/2018 17:50	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/18		05/08/2018 18:16	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/19		05/08/2018 18:41	1		ZB-624 (30) VOA 0.25(mm)
IC 480-413081/20		05/08/2018 19:07	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/22		05/08/2018 19:59	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-413081/23		05/08/2018 20:24	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/24		05/08/2018 20:50	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-413081/25		05/08/2018 21:16	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Instrument ID: HP5973F Start Date: 08/02/2018 09:18

Analysis Batch Number: 427705 End Date: 08/02/2018 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-427705/2		08/02/2018 09:18	1	F4180.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-427705/3		08/02/2018 09:46	1	F4181.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-427705/4		08/02/2018 10:20	1		ZB-624 (30) VOA 0.25(mm)
RL 480-427705/8		08/02/2018 12:07	1		ZB-624 (30) VOA 0.25(mm)
MB 480-427697/2-A		08/02/2018 12:59	1	F4188.D	ZB-624 (30) VOA 0.25(mm)
LCS 480-427697/23-A		08/02/2018 13:30	1	F4189.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 16:31	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 16:57	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 17:22	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 17:48	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 18:14	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 18:40	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 19:06	1		ZB-624 (30) VOA 0.25(mm)
480-139579-8		08/02/2018 19:31	1	F4203.D	ZB-624 (30) VOA 0.25(mm)
480-139579-8 MS		08/02/2018 19:57	1	F4204.D	ZB-624 (30) VOA 0.25(mm)
480-139579-8 MSD		08/02/2018 20:22	1	F4205.D	ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Instrument ID: HP5973F Start Date: 08/02/2018 21:30

Analysis Batch Number: 427843 End Date: 08/03/2018 06:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-427843/2		08/02/2018 21:30	1	F4207.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-427843/3		08/02/2018 22:00	1	F4208.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-427843/4		08/02/2018 22:26	1		ZB-624 (30) VOA 0.25(mm)
RL 480-427843/5		08/02/2018 22:51	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/02/2018 23:56	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 00:22	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 00:47	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 01:13	1		ZB-624 (30) VOA 0.25(mm)
480-139579-5		08/03/2018 01:39	1	F4216.D	ZB-624 (30) VOA 0.25(mm)
480-139579-6		08/03/2018 02:05	1	F4217.D	ZB-624 (30) VOA 0.25(mm)
480-139579-7		08/03/2018 02:31	1	F4218.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 02:56	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 03:22	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 03:47	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 04:13	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 04:39	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 05:04	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 05:30	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 05:56	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 06:22	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		08/03/2018 06:47	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/08/2018 07:26

Analysis Batch Number: 534406 End Date: 07/08/2018 16:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534406/1		07/08/2018 07:26	1	F67406.D	Rtx-624 0.25(mm)
STD7 460-534406/3 IC		07/08/2018 08:14	1	F67408.D	Rtx-624 0.25(mm)
STD1 460-534406/4 IC		07/08/2018 08:37	1	F67409.D	Rtx-624 0.25(mm)
STD5 460-534406/5 IC		07/08/2018 09:01	1	F67410.D	Rtx-624 0.25(mm)
STD20 460-534406/6 ICIS		07/08/2018 09:24	1	F67411.D	Rtx-624 0.25(mm)
STD50 460-534406/7 IC		07/08/2018 09:47	1	F67412.D	Rtx-624 0.25(mm)
STD200 460-534406/8 IC		07/08/2018 10:11	1	F67413.D	Rtx-624 0.25(mm)
STD500 460-534406/9 IC		07/08/2018 10:34	1	F67414.D	Rtx-624 0.25(mm)
ICV 460-534406/13		07/08/2018 12:09	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:32	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:56	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 13:43	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 16:28	10		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/31/2018 18:35

Analysis Batch Number: 541118 End Date: 08/01/2018 04:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-541118/1		07/31/2018 18:35	1	F68501.D	Rtx-624 0.25(mm)
CCVIS 460-541118/3		07/31/2018 19:21	1	F68503.D	Rtx-624 0.25(mm)
LCS 460-541118/4		07/31/2018 19:43	1	F68504.D	Rtx-624 0.25(mm)
ZZZZZ		07/31/2018 20:07	1		Rtx-624 0.25(mm)
MB 460-541118/8		07/31/2018 22:40	1	F68508.D	Rtx-624 0.25(mm)
480-139579-3		07/31/2018 23:03	1	F68509.D	Rtx-624 0.25(mm)
480-139579-4		08/01/2018 00:20	1	F68510.D	Rtx-624 0.25(mm)
480-139579-9		08/01/2018 00:44	1	F68511.D	Rtx-624 0.25(mm)
480-139579-11		08/01/2018 01:07	1	F68512.D	Rtx-624 0.25(mm)
480-139579-2		08/01/2018 01:30	1	F68513.D	Rtx-624 0.25(mm)
480-139579-10		08/01/2018 01:53	1	F68514.D	Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 02:16	5		Rtx-624 0.25(mm)
480-139579-10 MS		08/01/2018 02:40	1	F68516.D	Rtx-624 0.25(mm)
480-139579-10 MSD		08/01/2018 03:03	1	F68517.D	Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 03:49	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 04:13	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 04:36	2		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 08/01/2018 06:08

Analysis Batch Number: 541225 End Date: 08/01/2018 16:38

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-541225/1		08/01/2018 06:08	1	F68525.D	Rtx-624 0.25(mm)
CCVIS 460-541225/3		08/01/2018 06:54	1	F68527.D	Rtx-624 0.25(mm)
LCS 460-541225/4		08/01/2018 07:19	1	F68528.D	Rtx-624 0.25(mm)
MB 460-541225/8		08/01/2018 08:53	1	F68532.D	Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 09:16	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 09:39	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 10:02	10		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 10:26	10		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 11:36	1		Rtx-624 0.25(mm)
480-139579-1		08/01/2018 11:59	1	F68540.D	Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 13:09	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 13:32	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 13:55	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 14:19	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 15:05	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 15:28	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 15:51	1		Rtx-624 0.25(mm)
ZZZZZ		08/01/2018 16:38	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Batch Number: 427697 Batch Start Date: 08/02/18 08:35 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 08/02/18 13:04

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00130	GAS CORP mix 00293
MB 480-427697/2		5035A_L, 8260C		24.30 g	29.30 g	5 g	5 mL		
480-139579-C-5	PD1-23-SO-18-20180725	5035A_L, 8260C	T	+030.906 g	38.18 g	7.274 g	5 mL		
480-139579-C-6	PDI-123-SO-18-20180725	5035A_L, 8260C	T	+031.036 g	37.51 g	6.474 g	5 mL		
480-139579-C-7	PDI-24-SO-18-20180725	5035A_L, 8260C	T	+030.840 g	37.67 g	6.83 g	5 mL		
480-139579-C-8	PDI-25-SO-14-20180725	5035A_L, 8260C	T	+031.047 g	37.98 g	6.933 g	5 mL		
480-139579-C-8 MS	PDI-25-SO-14-20180725	5035A_L, 8260C	T	+031.038 g	38.10 g	7.062 g	5 mL	2.5 uL	2.5 uL
480-139579-C-8 MSD	PDI-25-SO-14-20180725	5035A_L, 8260C	T	+029.877 g	37.15 g	7.273 g	5 mL	2.5 uL	2.5 uL
LCS 480-427697/23		5035A_L, 8260C		24.36 g	29.36 g	5 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-427697/2		5035A_L, 8260C							
480-139579-C-5	PD1-23-SO-18-20180725	5035A_L, 8260C	T	TC					
480-139579-C-6	PDI-123-SO-18-20180725	5035A_L, 8260C	T	TC					
480-139579-C-7	PDI-24-SO-18-20180725	5035A_L, 8260C	T	TC					
480-139579-C-8	PDI-25-SO-14-20180725	5035A_L, 8260C	T	TC					
480-139579-C-8 MS	PDI-25-SO-14-20180725	5035A_L, 8260C	T	TC					
480-139579-C-8 MSD	PDI-25-SO-14-20180725	5035A_L, 8260C	T	TC					
LCS 480-427697/23		5035A_L, 8260C							

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00005

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Batch Number: 427697 Batch Start Date: 08/02/18 08:35 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 08/02/18 13:04

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Batch Number: 541118 Batch Start Date: 07/31/18 18:35 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00084	ACROLEIN W 00079	BFB 00017	GASES Li 00271
BFB 460-541118/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-541118/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-541118/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-541118/8		8260C		5 mL	5 mL				
480-139579-B-3	TB-20180724	8260C	T	5 mL	5 mL				
480-139579-G-4	FB-20180724	8260C	T	5 mL	5 mL				
480-139579-C-9	FB-20180725	8260C	T	5 mL	5 mL				
480-139579-B-11	TB-20180725	8260C	T	5 mL	5 mL				
480-139579-G-2	MW-1161-4-20180724	8260C	T	5 mL	5 mL				
480-139579-G-10	MW-161-3-20180725	8260C	T	5 mL	5 mL				
480-139579-G-10 MS	MW-161-3-20180725	8260C	T	5 mL	5 mL	20 uL	4 uL		20 uL
480-139579-G-10 MSD	MW-161-3-20180725	8260C	T	5 mL	5 mL	20 uL	4 uL		20 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00012					
BFB 460-541118/1		8260C							
CCVIS 460-541118/3		8260C		5 uL					
LCS 460-541118/4		8260C		5 uL					
MB 460-541118/8		8260C		5 uL					
480-139579-B-3	TB-20180724	8260C	T	5 uL					
480-139579-G-4	FB-20180724	8260C	T	5 uL					
480-139579-C-9	FB-20180725	8260C	T	5 uL					
480-139579-B-11	TB-20180725	8260C	T	5 uL					
480-139579-G-2	MW-1161-4-20180724	8260C	T	5 uL					
480-139579-G-10	MW-161-3-20180725	8260C	T	5 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Batch Number: 541118 Batch Start Date: 07/31/18 18:35 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00012					
480-139579-G-10 MS	MW-161-3-20180725	8260C	T	5 uL					
480-139579-G-10 MSD	MW-161-3-20180725	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Batch Number: 541225 Batch Start Date: 08/01/18 06:08 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00084	ACROLEIN W 00079	BFB 00017	GASES Li 00271
BFB 460-541225/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-541225/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-541225/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-541225/8		8260C		5 mL	5 mL				
480-139579-F-1	MW-161-4-20180724	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00012					
BFB 460-541225/1		8260C							
CCVIS 460-541225/3		8260C		5 uL					
LCS 460-541225/4		8260C		5 uL					
MB 460-541225/8		8260C		5 uL					
480-139579-F-1	MW-161-4-20180724	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270_SIM_14DX

1,4-Dioxane (GC/MS SIM)

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231888.D

Lab ID: LCS 460-540563/2-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.800	0.248 J	31	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231889.D

Lab ID: 480-139579-10 MS Client ID: MW-161-3-20180725 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	0.800	ND	0.519	65	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231890.D

Lab ID: 480-139579-10 MSD Client ID: MW-161-3-20180725 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	0.800	0.683	85	27	30	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: h231887.D Lab Sample ID: MB 460-540563/1-A

Matrix: Water Date Extracted: 07/29/2018 09:28

Instrument ID: CBNAMS9 Date Analyzed: 07/29/2018 23:15

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-540563/2-A	h231888.D	07/29/2018 23:36
MW-161-3-20180725 MS	480-139579-10 MS	h231889.D	07/29/2018 23:57
MW-161-3-20180725 MSD	480-139579-10 MSD	h231890.D	07/30/2018 00:18
MW-161-3-20180725	480-139579-10	h231891.D	07/30/2018 00:40
MW-161-4-20180724	480-139579-1	h231895.D	07/30/2018 02:04
MW-1161-4-20180724	480-139579-2	h231896.D	07/30/2018 02:25
FB-20180724	480-139579-4	h231897.D	07/30/2018 02:47

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: h231328.D DFTPP Injection Date: 07/06/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 17:35

Analysis Batch No.: 534106

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	35.5	
68	Less than 2.0 % of mass 69	0.5	(1.5) 1
69	Mass 69 relative abundance	37.2	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.8	
197	Less than 1.0 % of mass 198	0.6	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	23.3	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	15.2	(66.9) 3
442	Greater than 40.0 % of mass 198	111.3	
443	17.0 - 23.0 % of mass 442	22.7	(20.4) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-534106/2	h231333.D	07/06/2018	19:48
	STD6 460-534106/3	h231334.D	07/06/2018	20:09
	STD5 460-534106/4	h231335.D	07/06/2018	20:30
	STD4 460-534106/5	h231336.D	07/06/2018	20:51
	STD2 460-534106/6	h231337.D	07/06/2018	21:12
	STD1 460-534106/7	h231338.D	07/06/2018	21:33

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab File ID: h231884c.D DFTPP Injection Date: 07/29/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 21:40

Analysis Batch No.: 540569

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	30.6	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	30.4	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	44.0	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	6.7	
275	10.0 - 30.0 % of mass 198	26.0	
365	Greater than 1.0 % of mass 198	3.0	
441	Present but less than mass 443	18.6	(74.0) 3
442	Greater than 40.0 % of mass 198	131.7	
443	17.0 - 23.0 % of mass 442	25.1	(19.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-540569/2	h231885a.D	07/29/2018	22:28
	MB 460-540563/1-A	h231887.D	07/29/2018	23:15
	LCS 460-540563/2-A	h231888.D	07/29/2018	23:36
MW-161-3-20180725 MS	480-139579-10 MS	h231889.D	07/29/2018	23:57
MW-161-3-20180725 MSD	480-139579-10 MSD	h231890.D	07/30/2018	00:18
MW-161-3-20180725	480-139579-10	h231891.D	07/30/2018	00:40
MW-161-4-20180724	480-139579-1	h231895.D	07/30/2018	02:04
MW-1161-4-20180724	480-139579-2	h231896.D	07/30/2018	02:25
FB-20180724	480-139579-4	h231897.D	07/30/2018	02:47

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Sample No.: CCVIS 460-540569/2 Date Analyzed: 07/29/2018 22:28

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h231885a.D Heated Purge: (Y/N) N

Calibration ID: 70056

		DCBd4		NPT			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		7053	3.97	26224	5.22		
UPPER LIMIT		14106	4.47	52448	5.72		
LOWER LIMIT		3527	3.47	13112	4.72		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-540563/1-A		7044	3.97	26459	5.22		
LCS 460-540563/2-A		6953	3.97	26051	5.22		
480-139579-10 MS	MW-161-3-20180725 MS	6464	3.97	24593	5.22		
480-139579-10 MSD	MW-161-3-20180725 MSD	6349	3.97	24416	5.22		
480-139579-10	MW-161-3-20180725	6641	3.97	24170	5.22		
480-139579-1	MW-161-4-20180724	6729	3.97	24451	5.22		
480-139579-2	MW-1161-4-20180724	6913	3.97	25994	5.22		
480-139579-4	FB-20180724	7039	3.97	25576	5.22		

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-4-20180724 | Lab Sample ID: 480-139579-1

Matrix: Water | Lab File ID: h231895.D

Analysis Method: 8270C | Date Collected: 07/24/2018 10:10

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/30/2018 02:04

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231895.D
Lims ID: 480-139579-C-1-A
Client ID: MW-161-4-20180724
Sample Type: Client
Inject. Date: 30-Jul-2018 02:04:30 ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-012
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:49:38 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:50:08

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	100	6729	0.2000	
* 7 Naphthalene-d8	136	5.224	5.223	0.001	98	24451	0.2000	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	94	12435	0.2000	
* 17 Phenanthrene-d10	188	8.352	8.351	0.001	99	21120	0.2000	
* 25 Chrysene-d12	240	10.950	10.949	0.001	92	18043	0.2000	
* 30 Perylene-d12	264	12.695	12.694	0.001	100	16860	0.2000	
35 DFTPP								

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

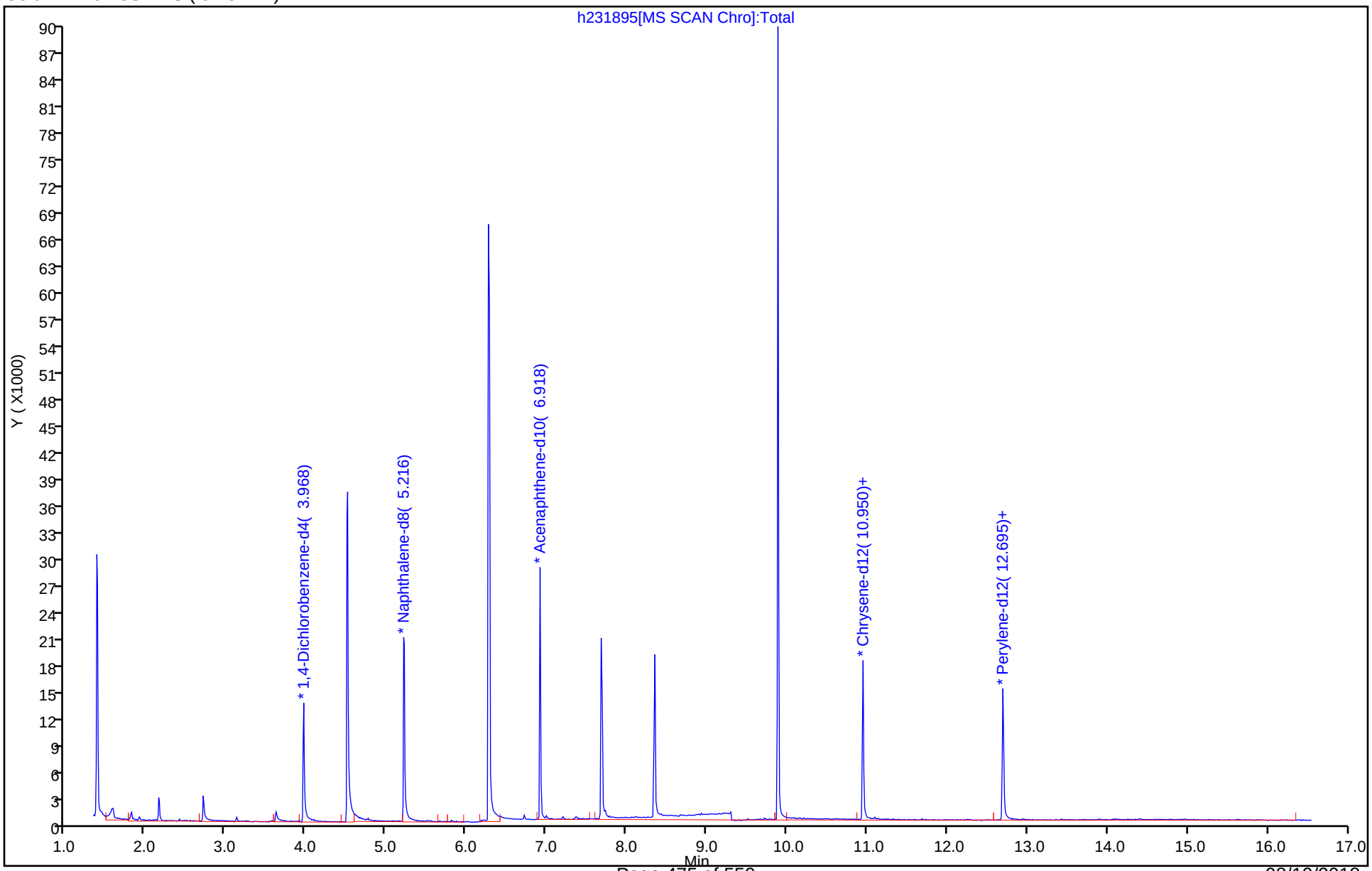
Report Date: 30-Jul-2018 23:50:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231895.D

Injection Date:	30-Jul-2018 02:04:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-1-A	Lab Sample ID:	460-139579-1	Worklist Smp#:	12
Client ID:	MW-161-4-20180724				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



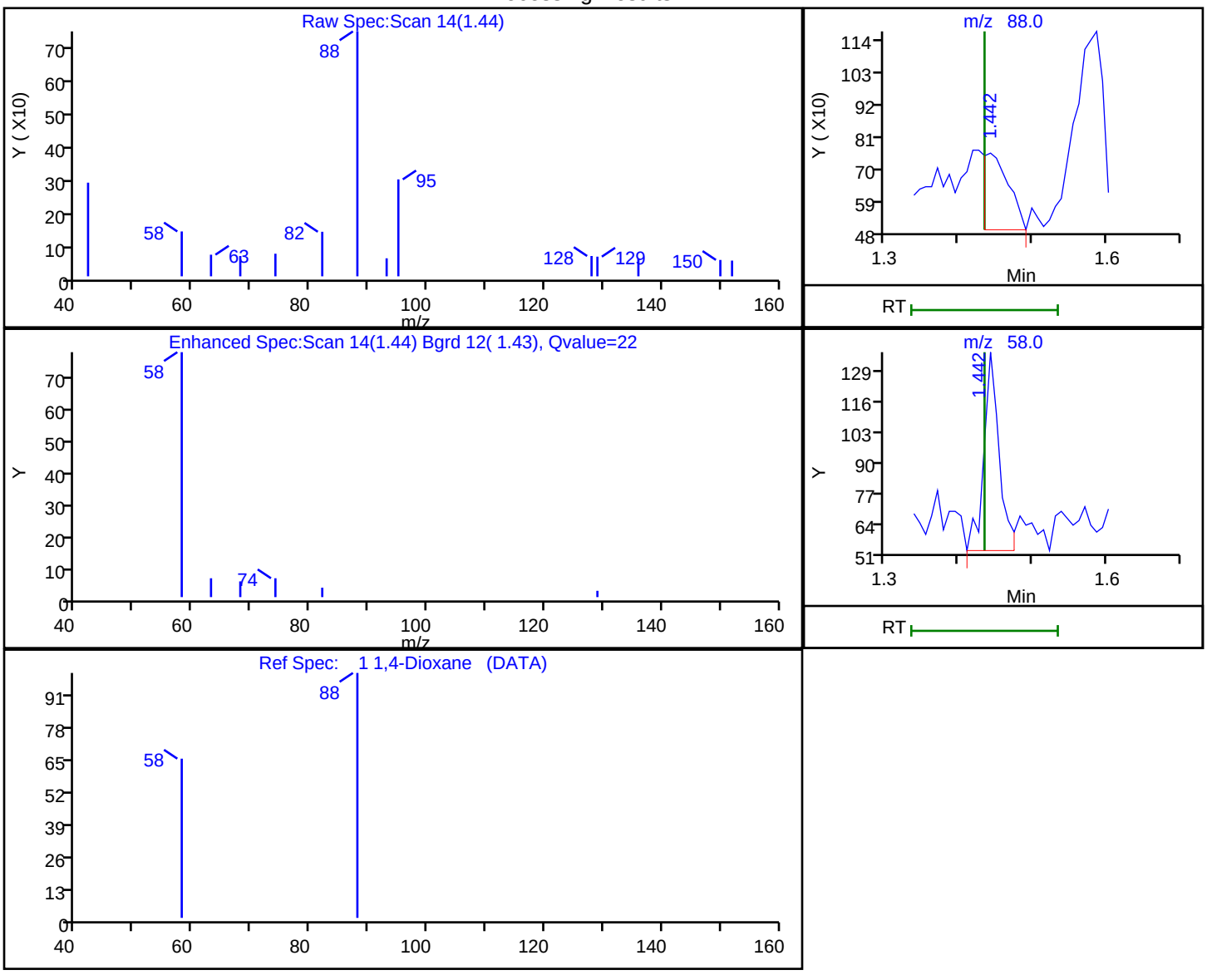
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231895.D				
Injection Date:	30-Jul-2018 02:04:30	Instrument ID:	CBNAMS9		
Lims ID:	480-139579-C-1-A	Lab Sample ID:	460-139579-1		
Client ID:	MW-161-4-20180724				
Operator ID:		ALS Bottle#:	12	Worklist Smp#:	12
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

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

Processing Results



RT	Mass	Response	Amount
1.44	88.00	624	0.010751
1.44	58.00	125	

Reviewer: zhaoc, 30-Jul-2018 13:44:00

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-1161-4-20180724 | Lab Sample ID: 480-139579-2

Matrix: Water | Lab File ID: h231896.D

Analysis Method: 8270C | Date Collected: 07/24/2018 10:15

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/30/2018 02:25

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231896.D
Lims ID: 480-139579-C-2-A
Client ID: MW-1161-4-20180724
Sample Type: Client
Inject. Date: 30-Jul-2018 02:25:30 ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-013
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:49:38 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:50:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	100	6913	0.2000	
* 7 Naphthalene-d8	136	5.223	5.223	0.000	98	25994	0.2000	
* 11 Acenaphthene-d10	164	6.917	6.918	-0.001	93	13842	0.2000	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	100	23197	0.2000	
* 25 Chrysene-d12	240	10.949	10.949	0.000	91	19315	0.2000	
* 30 Perylene-d12	264	12.694	12.694	0.000	99	17668	0.2000	
35 DFTPP								

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

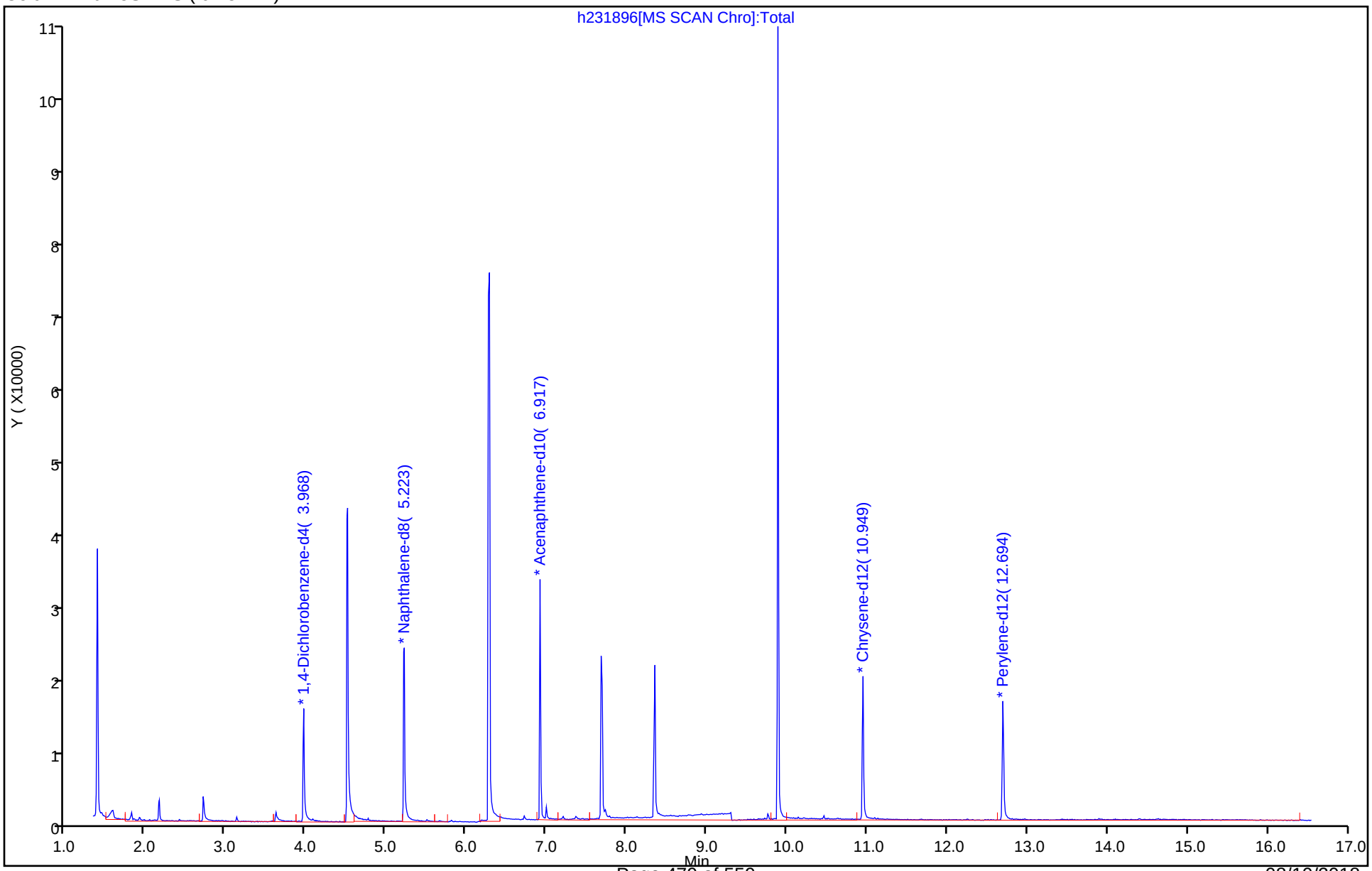
Report Date: 30-Jul-2018 23:50:44 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231896.D

Injection Date:	30-Jul-2018 02:25:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-2-A	Lab Sample ID:	460-139579-2	Worklist Smp#:	13
Client ID:	MW-1161-4-20180724				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	13
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



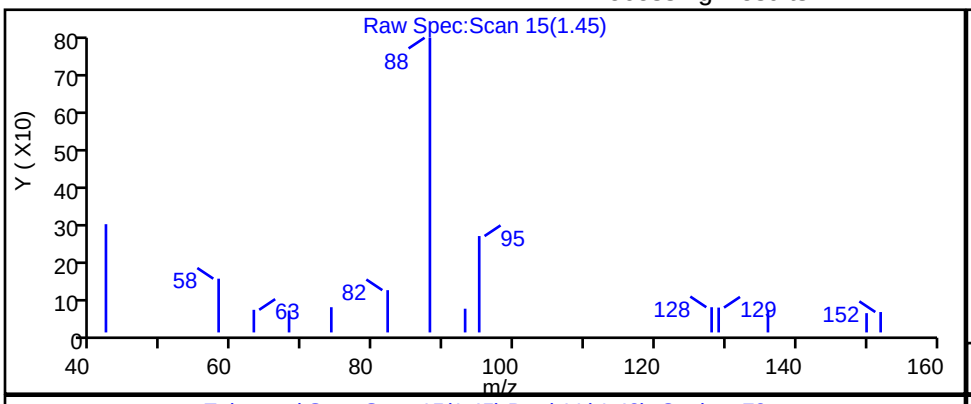
User Disabled Compound Report

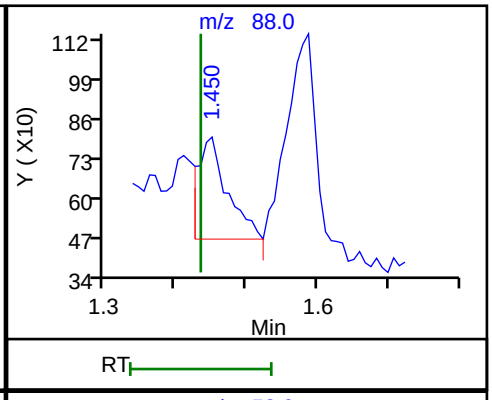
TestAmerica Edison

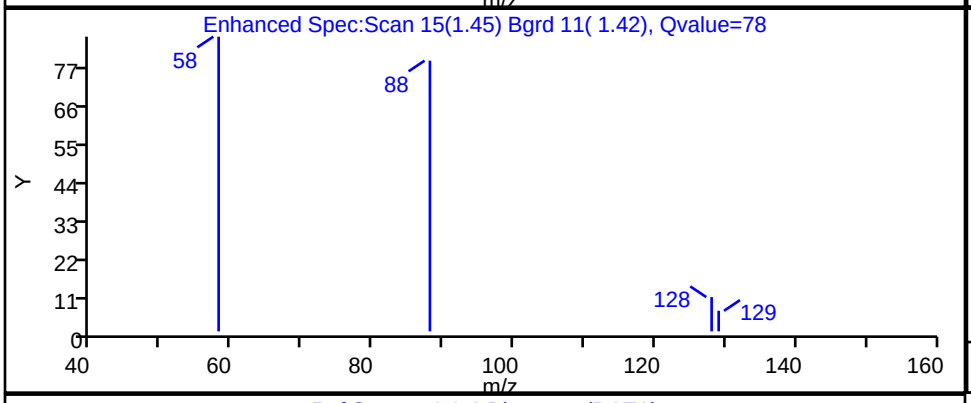
Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231896.D				
Injection Date:	30-Jul-2018 02:25:30	Instrument ID:	CBNAMS9		
Lims ID:	480-139579-C-2-A	Lab Sample ID:	460-139579-2		
Client ID:	MW-1161-4-20180724				
Operator ID:		ALS Bottle#:	13	Worklist Smp#:	13
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

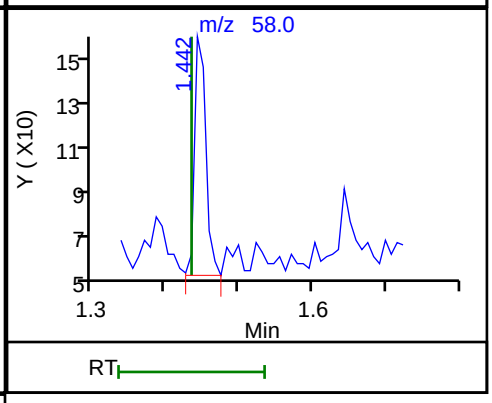
1 1,4-Dioxane, CAS: 123-91-1

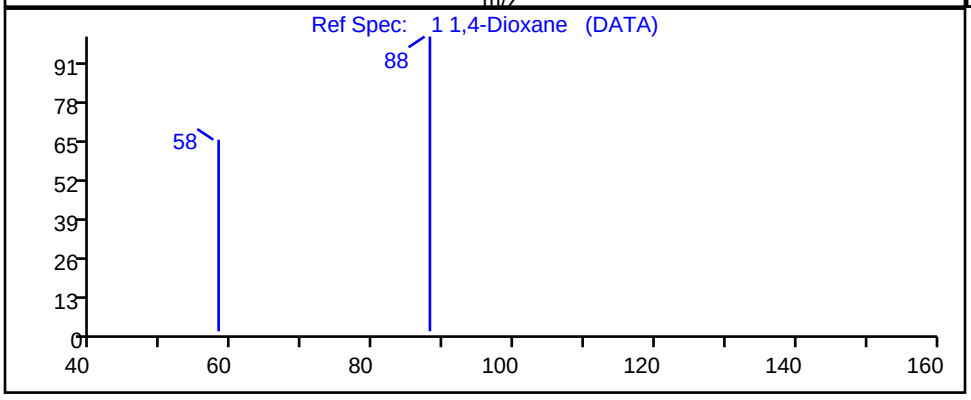
Processing Results











RT	Mass	Response	Amount
1.45	88.00	987	0.031916
1.44	58.00	109	

Reviewer: zhaoc, 30-Jul-2018 13:44:44

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

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: FB-20180724 | Lab Sample ID: 480-139579-4

Matrix: Water | Lab File ID: h231897.D

Analysis Method: 8270C | Date Collected: 07/24/2018 11:45

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/30/2018 02:47

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231897.D
Lims ID: 480-139579-C-4-A
Client ID: FB-20180724
Sample Type: Client
Inject. Date: 30-Jul-2018 02:47:30 ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-014
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:49:38 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:51:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	100	7039	0.2000	
* 7 Naphthalene-d8	136	5.223	5.223	0.000	98	25576	0.2000	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	94	13623	0.2000	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	99	23354	0.2000	
* 25 Chrysene-d12	240	10.949	10.949	0.000	92	20164	0.2000	
* 30 Perylene-d12	264	12.694	12.694	0.000	100	18781	0.2000	
35 DFTPP								

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

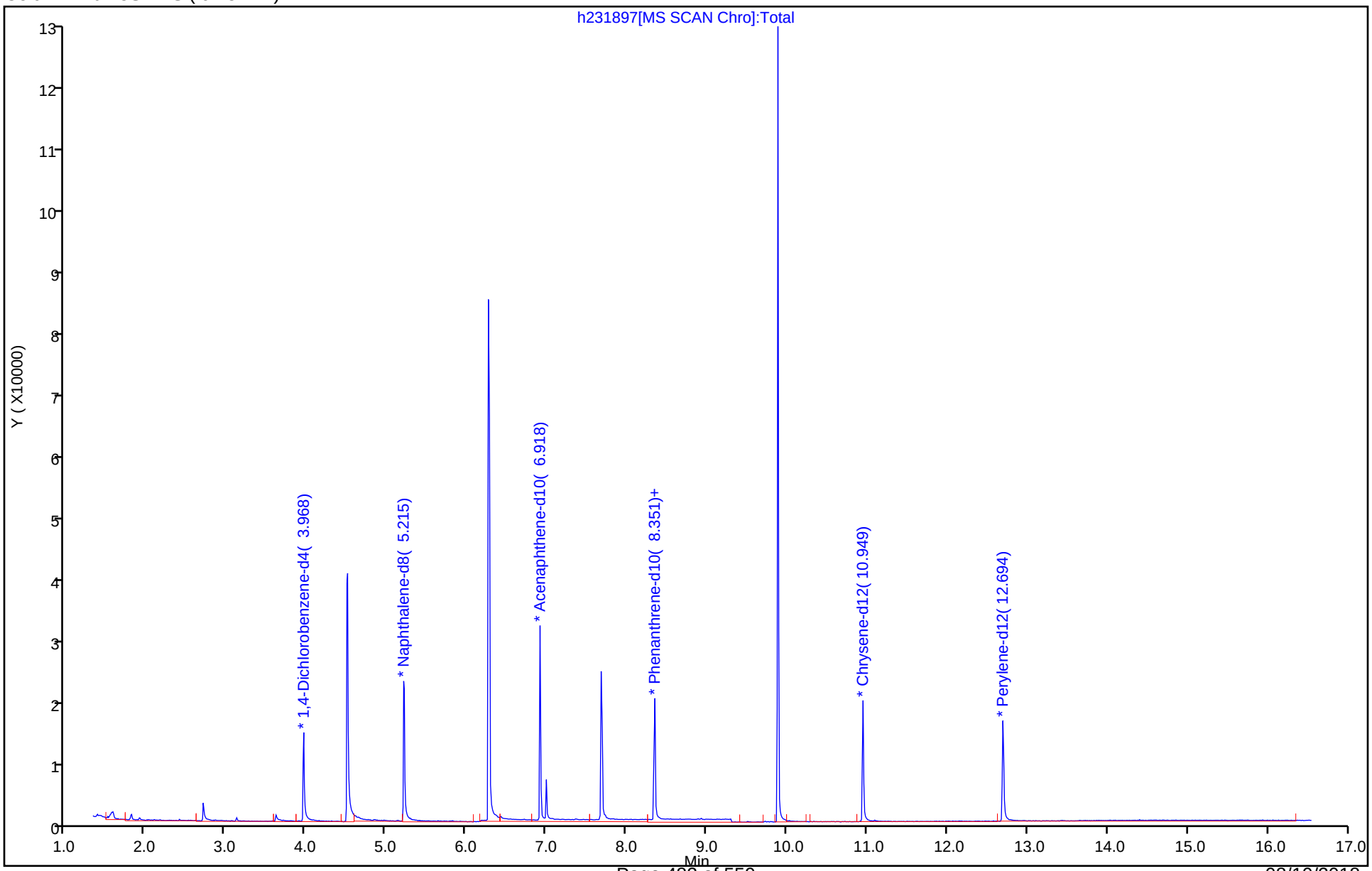
Report Date: 30-Jul-2018 23:51:09 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231897.D

Injection Date:	30-Jul-2018 02:47:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-4-A	Lab Sample ID:	460-139579-4	Worklist Smp#:	14
Client ID:	FB-20180724				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 | Lab Sample ID: 480-139579-10

Matrix: Water | Lab File ID: h231891.D

Analysis Method: 8270C | Date Collected: 07/25/2018 12:25

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/30/2018 00:40

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231891.D
Lims ID: 480-139579-C-10-C
Client ID: MW-161-3-20180725
Sample Type: Client
Inject. Date: 30-Jul-2018 00:40:30 ALS Bottle#: 8 Worklist Smp#: 8
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-008
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:47:51 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:47:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	100	6641	0.2000	
$ 6 Nitrobenzene-d5	82	4.507	4.515	-0.008	93	32724	0.9355	
* 7 Naphthalene-d8	136	5.223	5.223	0.000	98	24170	0.2000	
$ 9 2-Fluorobiphenyl	172	6.286	6.286	0.000	92	71482	0.7130	
* 11 Acenaphthene-d10	164	6.917	6.918	-0.001	94	12810	0.2000	
$ 20 2,4,6-Tribromophenol	330	7.680	7.694	-0.014	99	12834	0.8425	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	99	20899	0.2000	
$ 23 Terphenyl-d14	244	9.887	9.887	0.000	96	60482	0.8225	
* 25 Chrysene-d12	240	10.949	10.949	0.000	92	18073	0.2000	
* 30 Perylene-d12	264	12.694	12.694	0.000	100	16156	0.2000	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

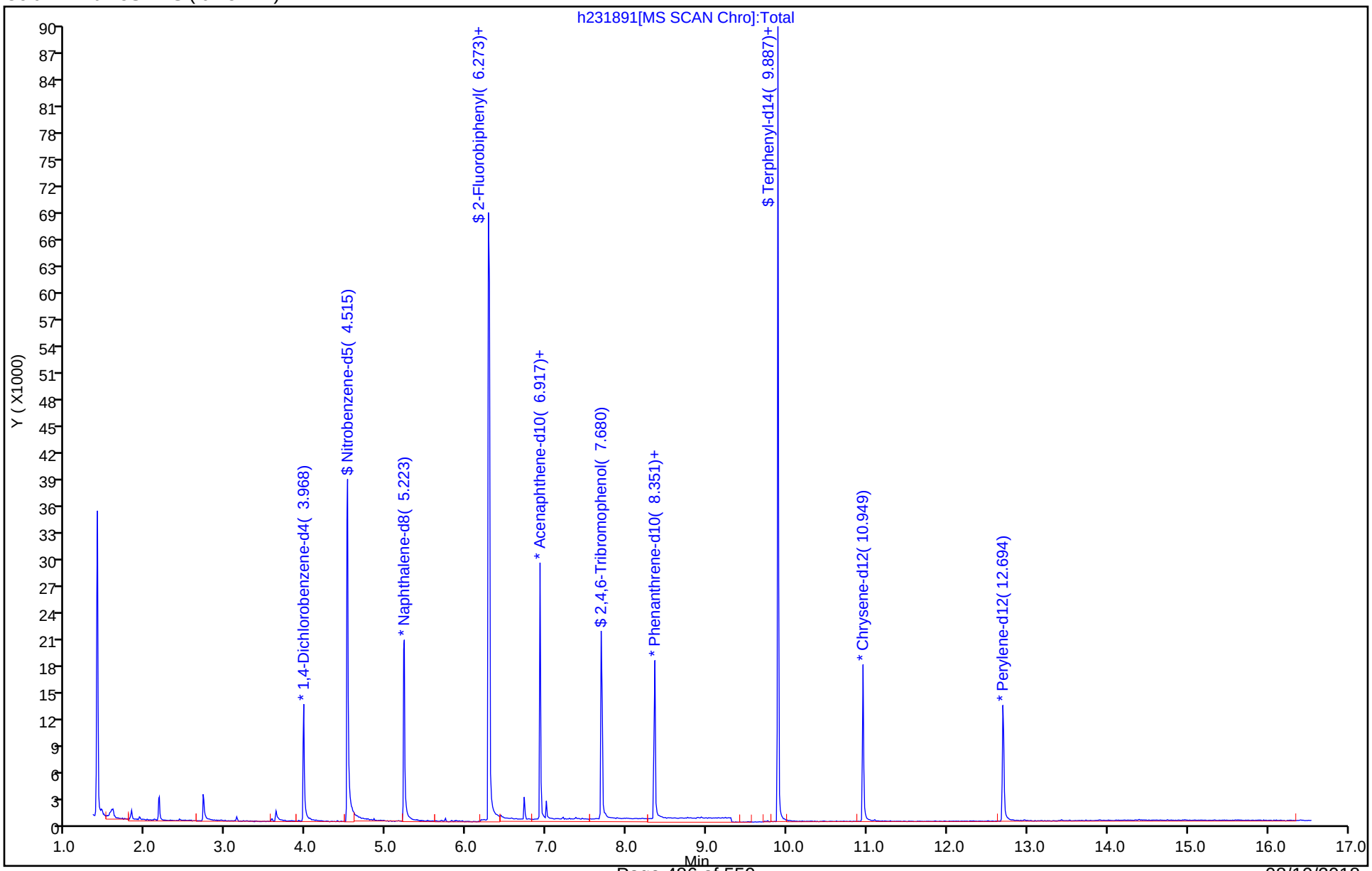
Report Date: 30-Jul-2018 23:47:51 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231891.D

Injection Date:	30-Jul-2018 00:40:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-10-C	Lab Sample ID:	460-139579-10	Worklist Smp#:	8
Client ID:	MW-161-3-20180725				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



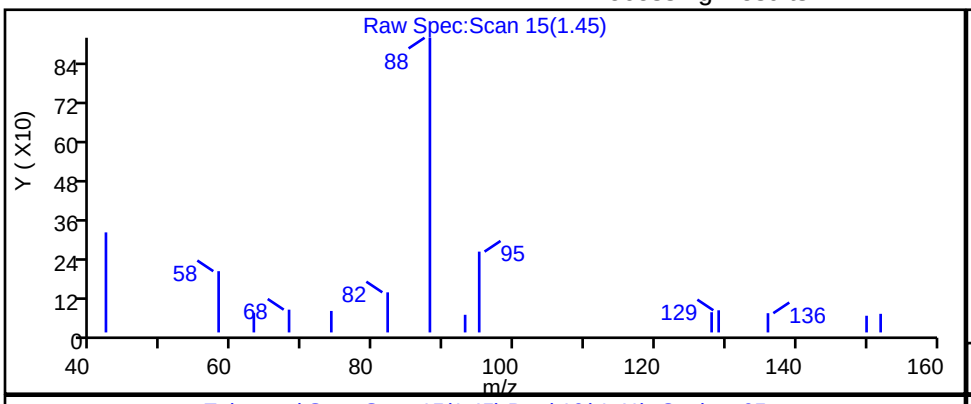
User Disabled Compound Report

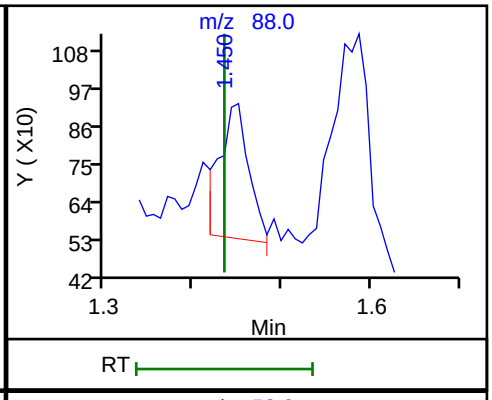
TestAmerica Edison

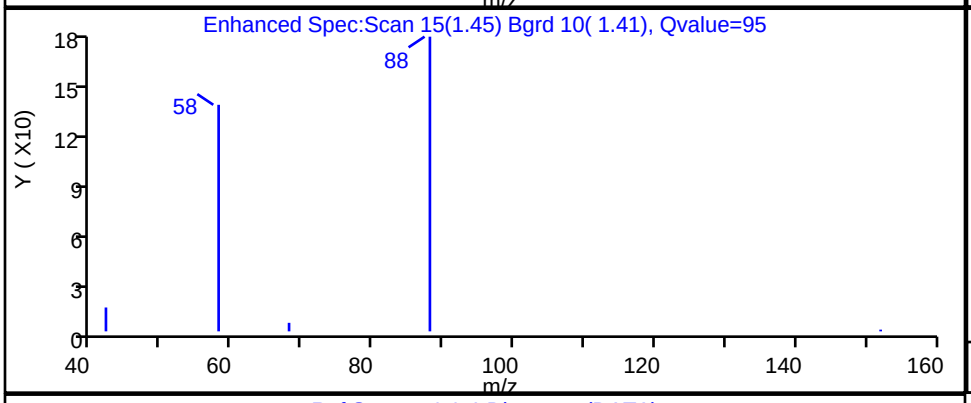
Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231891.D				
Injection Date:	30-Jul-2018 00:40:30	Instrument ID:	CBNAMS9		
Lims ID:	480-139579-C-10-C	Lab Sample ID:	460-139579-10		
Client ID:	MW-161-3-20180725				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	8
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

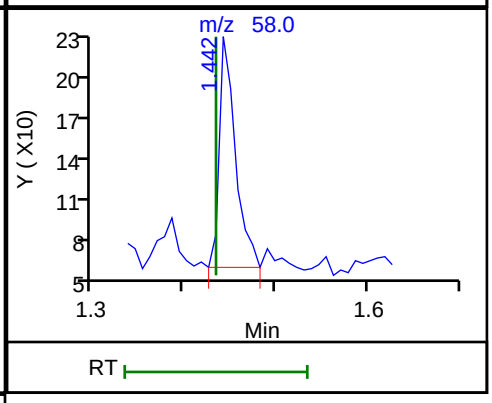
1 1,4-Dioxane, CAS: 123-91-1

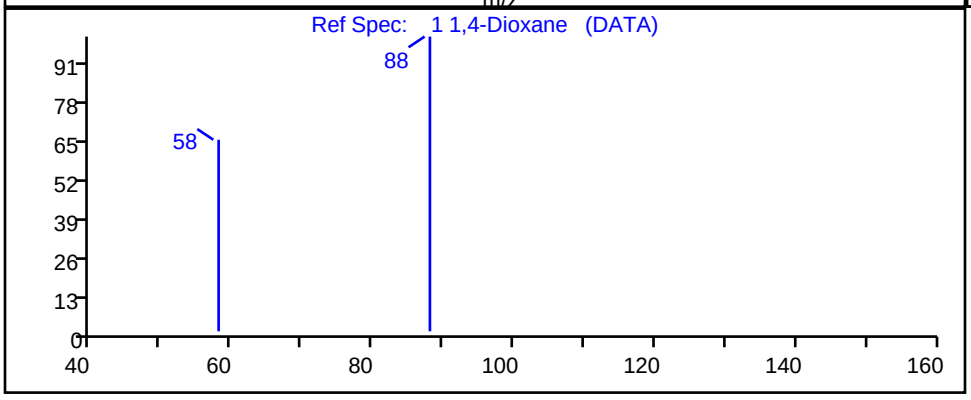
Processing Results











RT	Mass	Response	Amount
1.45	88.00	947	0.031841
1.44	58.00	210	

Reviewer: zhaoc, 30-Jul-2018 13:42:20

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534106

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2018 19:48 Calibration End Date: 07/06/2018 21:33 Calibration ID: 70056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-534106/2	h231333.D
Level 2	STD6 460-534106/3	h231334.D
Level 3	STD5 460-534106/4	h231335.D
Level 4	STD4 460-534106/5	h231336.D
Level 5	STD2 460-534106/6	h231337.D
Level 6	STD1 460-534106/7	h231338.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.5813 0.6605	0.4786	0.4824	0.4866	0.7437	Lin1	0.0135	0.4729							0.9950		0.9900
Nitrobenzene-d5	0.2850 0.2733	0.2985	0.2998	0.2930	0.2872	Ave		0.2894				3.4		15.0			

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

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

Lab Name: TestAmerica Edison Job No.: 480-139579-1 Analy Batch No.: 534106

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/06/2018 19:48 Calibration End Date: 07/06/2018 21:33 Calibration ID: 70056

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-534106/2	h231333.D
Level 2	STD6 460-534106/3	h231334.D
Level 3	STD5 460-534106/4	h231335.D
Level 4	STD4 460-534106/5	h231336.D
Level 5	STD2 460-534106/6	h231337.D
Level 6	STD1 460-534106/7	h231338.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Lin1	2825 674	23859	9171	5115	2015	0.200 0.0400	2.00	0.800	0.400	0.100
Nitrobenzene-d5	NPT	Ave	10513 2669	271715	27094	23683	5975	0.400 0.100	10.0	1.00	0.800	0.200

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231333.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Jul-2018 19:48:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:32:50 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:58:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.571	1.571	0.000	94	2825	0.2000	0.2174	
2 N-Nitrosodimethylamine	74	1.796	1.796	0.000	91	1079	0.1000	0.0990	
3 Bis(2-chloroethyl)ether	93	3.888	3.888	0.000	93	391	0.0200	0.0154	
* 5 1,4-Dichlorobenzene-d4	152	4.154	4.154	0.000	99	4860	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.693	4.693	0.000	96	10513	0.4000	0.3938	
* 7 Naphthalene-d8	136	5.401	5.401	0.000	99	18445	0.2000	0.2000	
8 Naphthalene	128	5.425	5.425	0.000	100	1871	0.0200	0.0182	
$ 9 2-Fluorobiphenyl	172	6.462	6.462	0.000	93	28600	0.4000	0.4085	
10 Acenaphthylene	152	6.962	6.962	0.000	99	1745	0.0200	0.0169	
* 11 Acenaphthene-d10	164	7.106	7.106	0.000	92	8947	0.2000	0.2000	
12 Acenaphthene	154	7.133	7.133	0.000	91	1111	0.0200	0.0170	
13 Fluorene	166	7.633	7.633	0.000	90	1290	0.0200	0.0173	
14 4,6-Dinitro-2-methylphenol	198	7.698	7.698	0.000	76	942	0.2000	0.2099	
$ 20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	97	3704	0.4000	0.3481	
15 Hexachlorobenzene	284	8.172	8.172	0.000	98	495	0.0200	0.0179	
16 Pentachlorophenol	266	8.369	8.369	0.000	91	917	0.1000	0.1135	M
* 17 Phenanthrene-d10	188	8.540	8.540	0.000	100	14920	0.2000	0.2000	
18 Phenanthrene	178	8.553	8.553	0.000	91	1937	0.0200	0.0183	
19 Anthracene	178	8.606	8.606	0.000	100	2004	0.0200	0.0195	
21 Fluoranthene	202	9.701	9.701	0.000	95	1781	0.0200	0.0176	
22 Pyrene	202	9.915	9.915	0.000	98	1962	0.0200	0.0192	
$ 23 Terphenyl-d14	244	10.081	10.081	0.000	94	17988	0.4000	0.3899	
24 Benzo[a]anthracene	228	11.163	11.163	0.000	51	1638	0.0200	0.0195	
* 25 Chrysene-d12	240	11.183	11.183	0.000	92	11338	0.2000	0.2000	
26 Chrysene	228	11.212	11.212	0.000	98	1753	0.0200	0.0189	
27 Benzo[b]fluoranthene	252	12.489	12.489	0.000	99	1423	0.0200	0.0197	
28 Benzo[k]fluoranthene	252	12.528	12.528	0.000	98	1657	0.0200	0.0184	
29 Benzo[a]pyrene	252	12.908	12.908	0.000	100	1237	0.0200	0.0190	M
* 30 Perylene-d12	264	12.986	12.986	0.000	100	9501	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.380	14.380	0.000	89	1104	0.0200	0.0186	M
32 Dibenz(a,h)anthracene	278	14.419	14.419	0.000	95	1052	0.0200	0.0181	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.751	14.751	0.000	85	1264	0.0200	0.0182	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

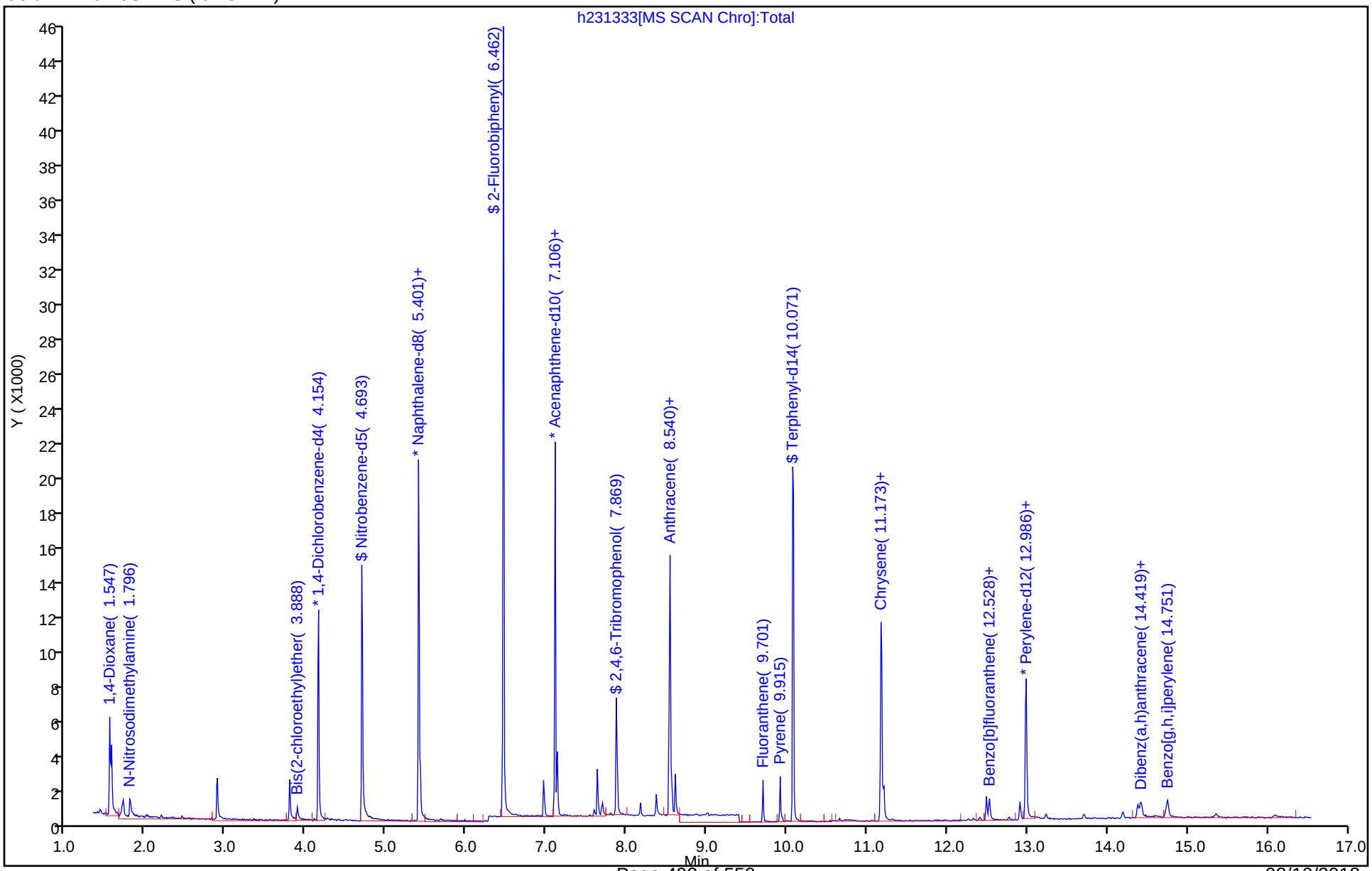
Report Date: 08-Jul-2018 22:32:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231333.D

Injection Date:	06-Jul-2018 19:48:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	icis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231334.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Jul-2018 20:09:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-003
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:32:53 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:48:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.571	1.571	0.000	91	23859	2.00	2.00	
2 N-Nitrosodimethylamine	74	1.788	1.796	-0.008	87	12152	1.00	0.99	
3 Bis(2-chloroethyl)ether	93	3.888	3.888	0.000	89	28798	1.00	1.00	
* 5 1,4-Dichlorobenzene-d4	152	4.153	4.154	-0.001	97	4985	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.692	4.693	-0.001	99	271715	10.0	10.3	
* 7 Naphthalene-d8	136	5.401	5.401	0.000	99	18207	0.2000	0.2000	
8 Naphthalene	128	5.425	5.425	0.000	100	42542	0.4000	0.4203	
$ 9 2-Fluorobiphenyl	172	6.462	6.462	0.000	93	641444	10.0	9.36	
10 Acenaphthylene	152	6.962	6.962	0.000	100	45461	0.4000	0.4486	
* 11 Acenaphthene-d10	164	7.106	7.106	0.000	91	8761	0.2000	0.2000	
12 Acenaphthene	154	7.133	7.133	0.000	97	27763	0.4000	0.4332	
13 Fluorene	166	7.632	7.633	-0.001	94	32216	0.4000	0.4402	
14 4,6-Dinitro-2-methylphenol	198	7.685	7.698	-0.013	85	16291	2.00	1.98	
$ 20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	93	126226	10.0	12.1	
15 Hexachlorobenzene	284	8.172	8.172	0.000	100	25662	1.00	0.9554	
16 Pentachlorophenol	266	8.369	8.369	0.000	99	11384	1.00	1.00	
* 17 Phenanthrene-d10	188	8.540	8.540	0.000	100	14462	0.2000	0.2000	M
18 Phenanthrene	178	8.553	8.553	0.000	95	46972	0.4000	0.4569	
19 Anthracene	178	8.606	8.606	0.000	99	43784	0.4000	0.4387	
21 Fluoranthene	202	9.701	9.701	0.000	94	42743	0.4000	0.4369	
22 Pyrene	202	9.915	9.915	0.000	97	45012	0.4000	0.4233	
$ 23 Terphenyl-d14	244	10.071	10.081	-0.010	100	498209	10.0	10.4	
24 Benzo[a]anthracene	228	11.163	11.163	0.000	8	36619	0.4000	0.4179	
* 25 Chrysene-d12	240	11.173	11.183	-0.010	80	11828	0.2000	0.2000	
26 Chrysene	228	11.202	11.212	-0.010	99	41002	0.4000	0.4228	
27 Benzo[b]fluoranthene	252	12.489	12.489	0.000	100	34404	0.4000	0.4332	
28 Benzo[k]fluoranthene	252	12.518	12.528	-0.010	96	42537	0.4000	0.4296	
29 Benzo[a]pyrene	252	12.898	12.908	-0.010	100	32204	0.4000	0.4510	
* 30 Perylene-d12	264	12.976	12.986	-0.010	100	10424	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.370	14.380	-0.010	91	29573	0.4000	0.4544	
32 Dibenz(a,h)anthracene	278	14.409	14.419	-0.010	96	30088	0.4000	0.4726	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.741	14.751	-0.010	82	33099	0.4000	0.4336	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL6_00009 Amount Added: 1.00 Units: mL

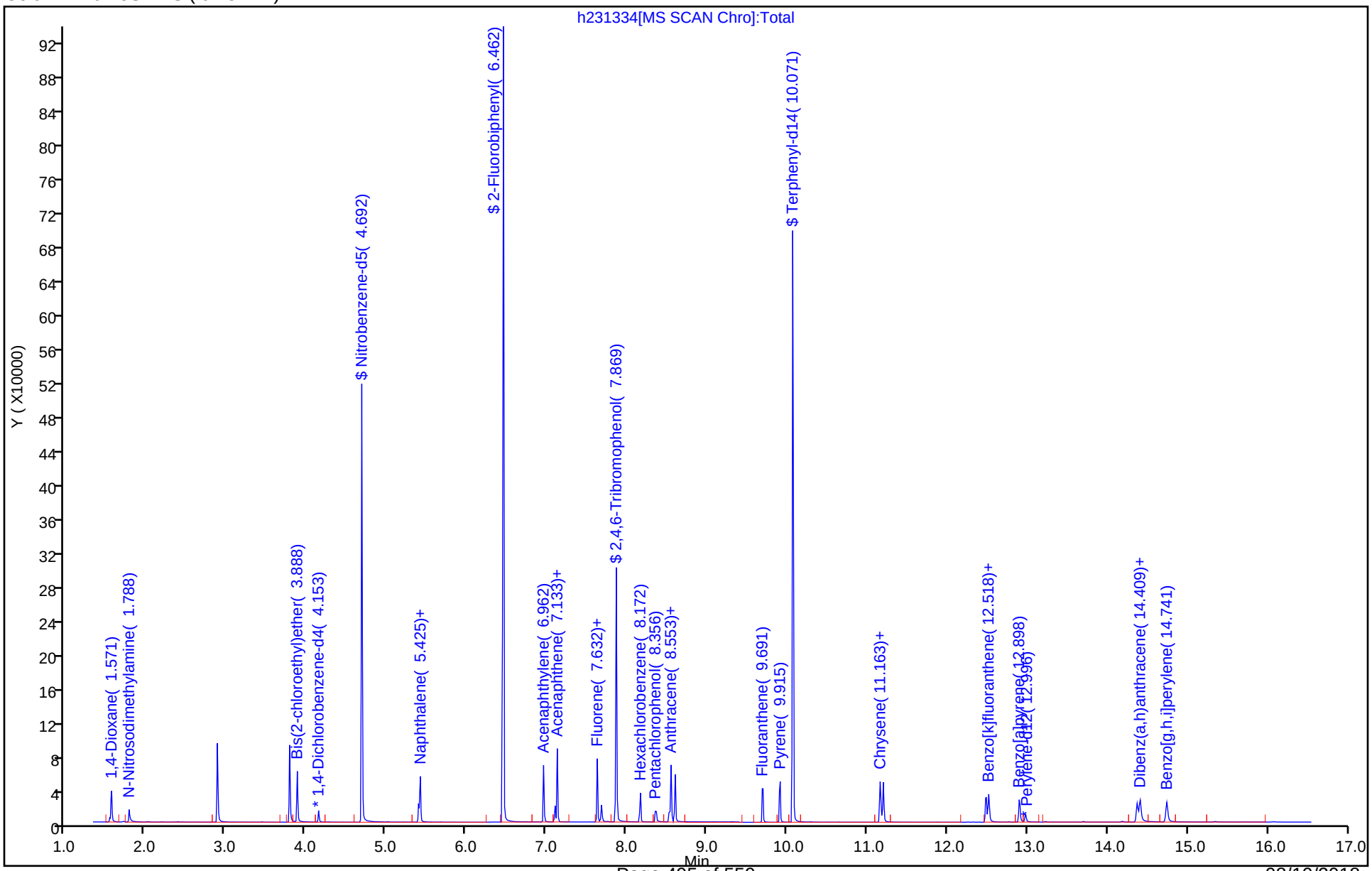
Report Date: 08-Jul-2018 22:32:54 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231334.D

Injection Date:	06-Jul-2018 20:09:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std6			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231335.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jul-2018 20:30:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-004
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:32:56 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:36:21

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.571	1.571	0.000	95	9171	0.8000	0.7876	
	2 N-Nitrosodimethylamine	74	1.796	1.796	0.000	84	5025	0.4000	0.4352	
	3 Bis(2-chloroethyl)ether	93	3.888	3.888	0.000	93	10506	0.4000	0.4053	
*	5 1,4-Dichlorobenzene-d4	152	4.153	4.154	-0.001	99	4753	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.692	4.693	-0.001	95	27094	1.00	1.04	
*	7 Naphthalene-d8	136	5.400	5.401	-0.001	100	18075	0.2000	0.2000	
	8 Naphthalene	128	5.425	5.425	0.000	100	19742	0.2000	0.1965	
$	9 2-Fluorobiphenyl	172	6.462	6.462	0.000	93	71440	1.00	1.00	
	10 Acenaphthylene	152	6.961	6.962	-0.001	100	20014	0.2000	0.1889	
*	11 Acenaphthene-d10	164	7.106	7.106	0.000	90	9161	0.2000	0.2000	
	12 Acenaphthene	154	7.132	7.133	-0.001	96	12855	0.2000	0.1918	
	13 Fluorene	166	7.632	7.633	-0.001	92	14964	0.2000	0.1955	
	14 4,6-Dinitro-2-methylphenol	198	7.685	7.698	-0.013	90	5406	0.8000	0.8536	
$	20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	93	11796	1.00	1.08	
	15 Hexachlorobenzene	284	8.172	8.172	0.000	100	11186	0.4000	0.3927	
	16 Pentachlorophenol	266	8.369	8.369	0.000	97	3870	0.4000	0.4054	M
*	17 Phenanthrene-d10	188	8.540	8.540	0.000	100	15336	0.2000	0.2000	
	18 Phenanthrene	178	8.553	8.553	0.000	96	21569	0.2000	0.1979	
	19 Anthracene	178	8.606	8.606	0.000	99	20206	0.2000	0.1909	
	21 Fluoranthene	202	9.701	9.701	0.000	94	20045	0.2000	0.1932	
	22 Pyrene	202	9.915	9.915	0.000	97	21145	0.2000	0.1858	
$	23 Terphenyl-d14	244	10.071	10.081	-0.010	99	50868	1.00	0.9875	
	24 Benzo[a]anthracene	228	11.163	11.163	0.000	13	17314	0.2000	0.1846	
*	25 Chrysene-d12	240	11.173	11.183	-0.010	91	12660	0.2000	0.2000	
	26 Chrysene	228	11.202	11.212	-0.010	99	20075	0.2000	0.1934	
	27 Benzo[b]fluoranthene	252	12.489	12.489	0.000	100	15664	0.2000	0.1820	
	28 Benzo[k]fluoranthene	252	12.518	12.528	-0.010	97	20158	0.2000	0.1878	
	29 Benzo[a]pyrene	252	12.898	12.908	-0.010	100	15136	0.2000	0.1956	
*	30 Perylene-d12	264	12.976	12.986	-0.010	100	11298	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.370	14.380	-0.010	92	13484	0.2000	0.1911	
	32 Dibenz(a,h)anthracene	278	14.409	14.419	-0.010	97	14619	0.2000	0.2119	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.741	14.751	-0.010	82	15805	0.2000	0.1910	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL5_00009 Amount Added: 1.00 Units: mL

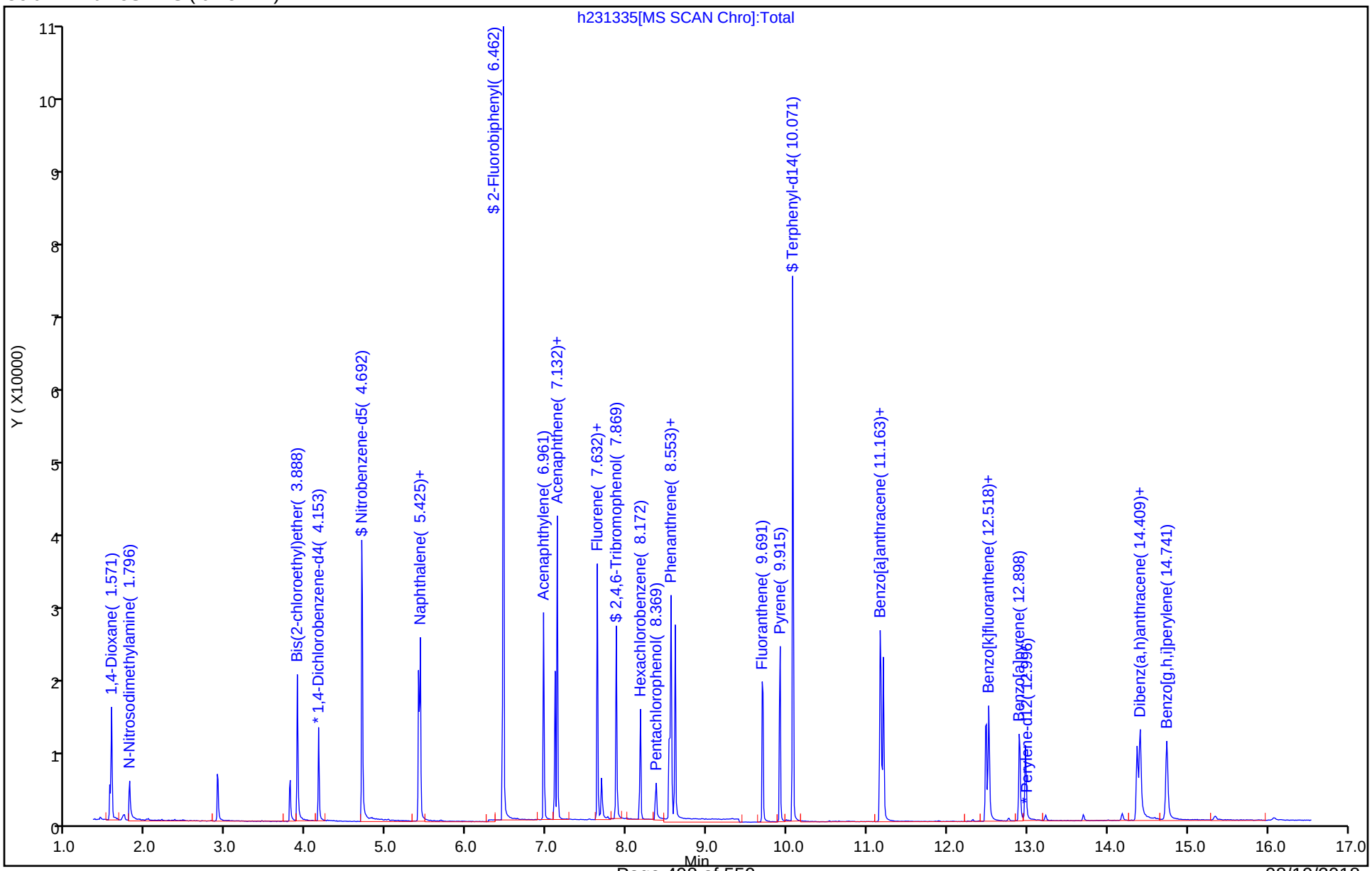
Report Date: 08-Jul-2018 22:32:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231335.D

Injection Date:	06-Jul-2018 20:30:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std5			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231336.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jul-2018 20:51:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-005
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:32:58 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:37:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.571	1.571	0.000	98	5115	0.4000	0.3831	
2 N-Nitrosodimethylamine	74	1.796	1.796	0.000	92	2176	0.2000	0.1763	
3 Bis(2-chloroethyl)ether	93	3.888	3.888	0.000	93	5397	0.2000	0.1924	
* 5 1,4-Dichlorobenzene-d4	152	4.153	4.154	-0.001	98	5256	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.693	4.693	0.000	96	23683	0.8000	0.8097	
* 7 Naphthalene-d8	136	5.401	5.401	0.000	99	20209	0.2000	0.2000	
8 Naphthalene	128	5.425	5.425	0.000	100	10379	0.1000	0.0924	
$ 9 2-Fluorobiphenyl	172	6.462	6.462	0.000	93	59388	0.8000	0.7728	
10 Acenaphthylene	152	6.962	6.962	0.000	100	10681	0.1000	0.0940	
* 11 Acenaphthene-d10	164	7.106	7.106	0.000	91	9819	0.2000	0.2000	
12 Acenaphthene	154	7.133	7.133	0.000	96	6626	0.1000	0.0923	
13 Fluorene	166	7.632	7.633	-0.001	96	7800	0.1000	0.0951	
14 4,6-Dinitro-2-methylphenol	198	7.685	7.698	-0.013	98	2128	0.4000	0.3787	
$ 20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	93	9635	0.8000	0.8252	
15 Hexachlorobenzene	284	8.172	8.172	0.000	100	5840	0.2000	0.1893	
16 Pentachlorophenol	266	8.369	8.369	0.000	98	1717	0.2000	0.1842	M
* 17 Phenanthrene-d10	188	8.540	8.540	0.000	100	16610	0.2000	0.2000	
18 Phenanthrene	178	8.553	8.553	0.000	96	11552	0.1000	0.0978	
19 Anthracene	178	8.606	8.606	0.000	99	10462	0.1000	0.0913	
21 Fluoranthene	202	9.701	9.701	0.000	94	10485	0.1000	0.0933	
22 Pyrene	202	9.915	9.915	0.000	97	11102	0.1000	0.0889	
$ 23 Terphenyl-d14	244	10.071	10.081	-0.010	99	43801	0.8000	0.7753	
24 Benzo[a]anthracene	228	11.163	11.163	0.000	35	8990	0.1000	0.0874	
* 25 Chrysene-d12	240	11.173	11.183	-0.010	97	13884	0.2000	0.2000	
26 Chrysene	228	11.202	11.212	-0.010	99	10171	0.1000	0.0893	
27 Benzo[b]fluoranthene	252	12.479	12.489	-0.010	100	8268	0.1000	0.0896	
28 Benzo[k]fluoranthene	252	12.518	12.528	-0.010	98	10390	0.1000	0.0903	
29 Benzo[a]pyrene	252	12.898	12.908	-0.010	100	7782	0.1000	0.0938	
* 30 Perylene-d12	264	12.976	12.986	-0.010	100	12114	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.370	14.380	-0.010	91	6947	0.1000	0.0918	M
32 Dibenz(a,h)anthracene	278	14.409	14.419	-0.010	93	7084	0.1000	0.0958	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.741	14.751	-0.010	82	7914	0.1000	0.0892	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL4_00008 Amount Added: 1.00 Units: mL

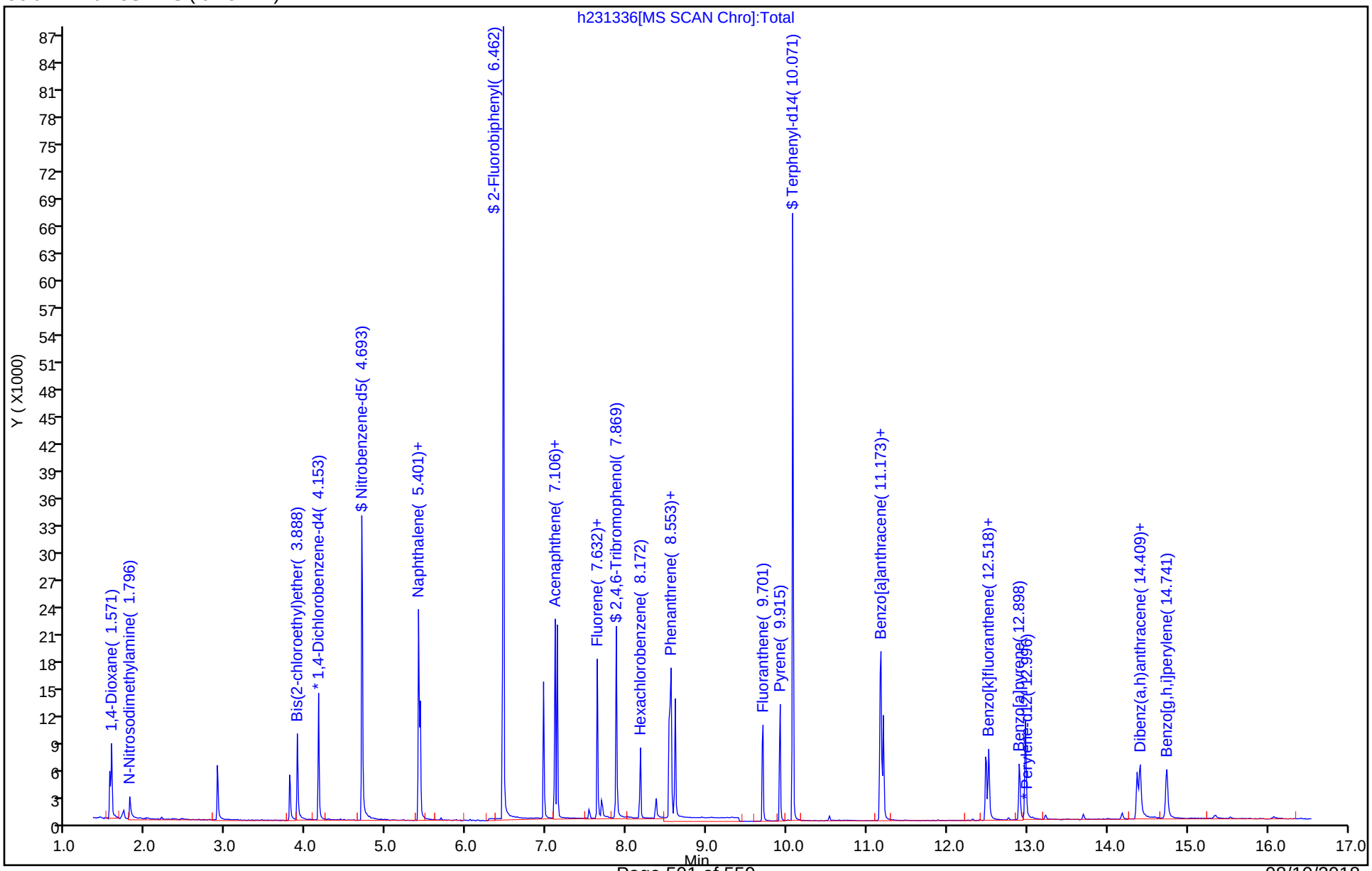
Report Date: 08-Jul-2018 22:32:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231336.D

Injection Date:	06-Jul-2018 20:51:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231337.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jul-2018 21:12:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-006
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:33:01 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:38:04

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.579	1.571	0.008	85	2015	0.1000	0.1288	
	2 N-Nitrosodimethylamine	74	1.812	1.796	0.016	86	527	0.0500	0.0488	
	3 Bis(2-chloroethyl)ether	93	3.896	3.888	0.008	88	84	0.005000	0.002962	
*	5 1,4-Dichlorobenzene-d4	152	4.153	4.154	-0.001	98	5419	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.701	4.693	0.008	98	5975	0.2000	0.1984	
*	7 Naphthalene-d8	136	5.401	5.401	0.000	100	20805	0.2000	0.2000	
	8 Naphthalene	128	5.425	5.425	0.000	100	1176	0.0100	0.0102	
$	9 2-Fluorobiphenyl	172	6.462	6.462	0.000	94	15914	0.2000	0.2033	
	10 Acenaphthylene	152	6.962	6.962	0.000	100	1277	0.0100	0.0110	
*	11 Acenaphthene-d10	164	7.106	7.106	0.000	91	10003	0.2000	0.2000	
	12 Acenaphthene	154	7.133	7.133	0.000	94	775	0.0100	0.0106	
	13 Fluorene	166	7.632	7.633	-0.001	93	868	0.0100	0.0104	
	14 4,6-Dinitro-2-methylphenol	198	7.698	7.698	0.000	80	375	0.1000	0.0908	
$	20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	92	2221	0.2000	0.1867	
	15 Hexachlorobenzene	284	8.172	8.172	0.000	94	161	0.005000	0.005068	a
	16 Pentachlorophenol	266	8.369	8.369	0.000	97	417	0.0500	0.0465	Ma
*	17 Phenanthrene-d10	188	8.540	8.540	0.000	100	17106	0.2000	0.2000	
	18 Phenanthrene	178	8.553	8.553	0.000	90	1172	0.0100	0.009639	
	19 Anthracene	178	8.606	8.606	0.000	98	1227	0.0100	0.0104	
	21 Fluoranthene	202	9.701	9.701	0.000	94	1260	0.0100	0.0109	
	22 Pyrene	202	9.915	9.915	0.000	98	1270	0.0100	0.0104	
$	23 Terphenyl-d14	244	10.071	10.081	-0.010	100	10823	0.2000	0.1965	
	24 Benzo[a]anthracene	228	11.163	11.163	0.000	95	1047	0.0100	0.0104	
*	25 Chrysene-d12	240	11.173	11.183	-0.010	95	13534	0.2000	0.2000	
	26 Chrysene	228	11.202	11.212	-0.010	98	1207	0.0100	0.0109	
	27 Benzo[b]fluoranthene	252	12.489	12.489	0.000	100	886	0.0100	0.009806	
	28 Benzo[k]fluoranthene	252	12.518	12.528	-0.010	1	1243	0.0100	0.0110	
	29 Benzo[a]pyrene	252	12.898	12.908	-0.010	99	798	0.0100	0.009823	M
*	30 Perylene-d12	264	12.976	12.986	-0.010	100	11860	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.380	14.380	0.000	91	724	0.0100	0.009777	
	32 Dibenz(a,h)anthracene	278	14.409	14.419	-0.010	97	666	0.0100	0.009195	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.741	14.751	-0.010	82	888	0.0100	0.0102	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL2_00009 Amount Added: 1.00 Units: mL

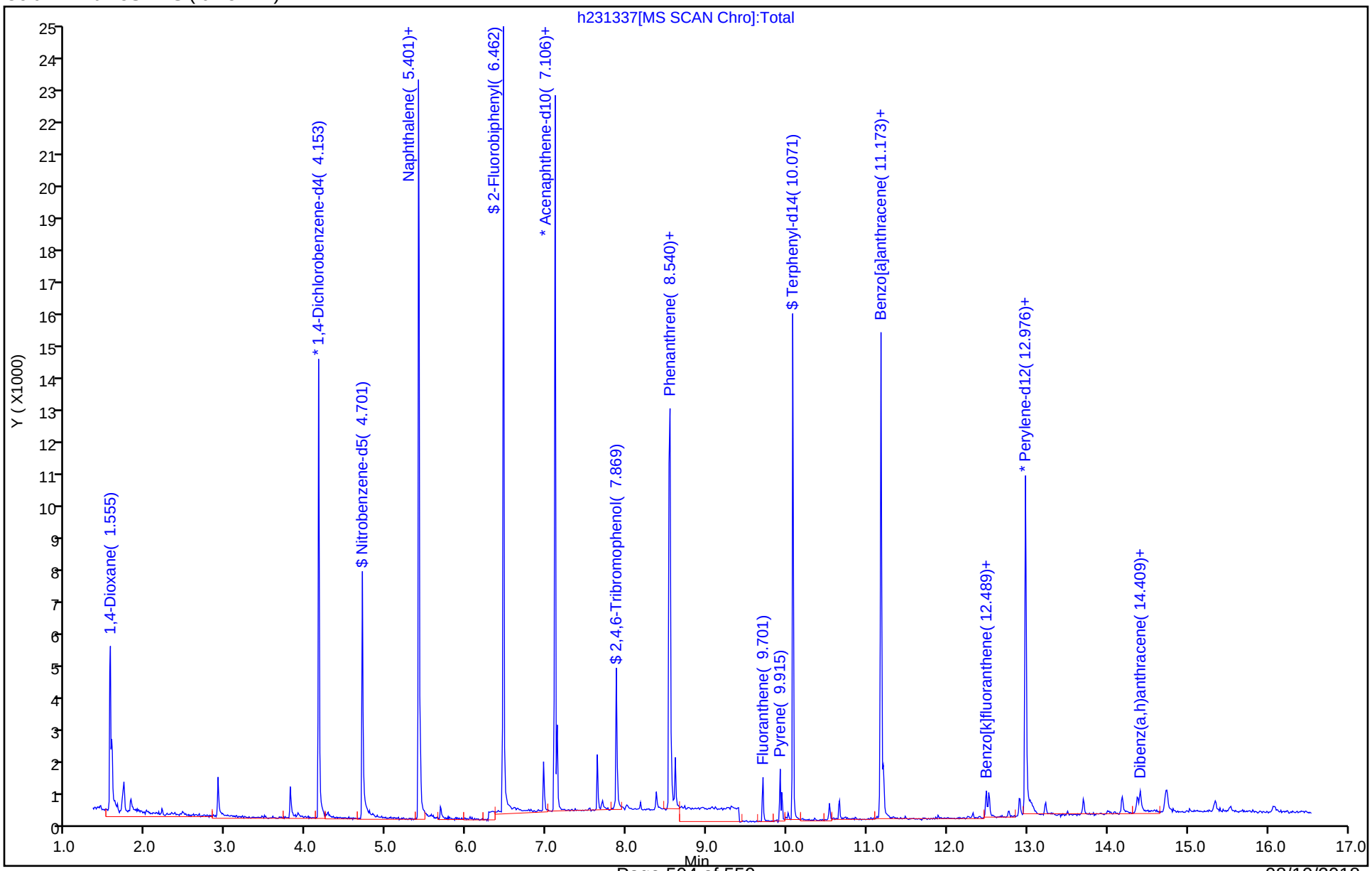
Report Date: 08-Jul-2018 22:33:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231337.D

Injection Date:	06-Jul-2018 21:12:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jul-2018 21:33:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0075003-007
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 22:33:05 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:43:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.571	1.571	0.000	96	674	0.0400	0.0274	
2 N-Nitrosodimethylamine	74	1.812	1.796	0.016	87	128	0.0200	0.0198	
3 Bis(2-chloroethyl)ether	93	3.896	3.888	0.008	34	52	0.002000	0.001948	M
* 5 1,4-Dichlorobenzene-d4	152	4.153	4.154	-0.001	99	5102	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.700	4.693	0.007	98	2669	0.1000	0.0944	
* 7 Naphthalene-d8	136	5.400	5.401	-0.001	99	19533	0.2000	0.2000	
8 Naphthalene	128	5.425	5.425	0.000	94	605	0.005000	0.005571	
$ 9 2-Fluorobiphenyl	172	6.462	6.462	0.000	94	8042	0.1000	0.1064	
10 Acenaphthylene	152	6.961	6.962	-0.001	99	585	0.005000	0.005238	
* 11 Acenaphthene-d10	164	7.106	7.106	0.000	91	9655	0.2000	0.2000	
12 Acenaphthene	154	7.133	7.133	-0.001	93	398	0.005000	0.005636	
13 Fluorene	166	7.632	7.633	-0.001	88	431	0.005000	0.005344	
14 4,6-Dinitro-2-methylphenol	198	7.698	7.698	0.000	54	96	0.0400	0.0412	Ma
$ 20 2,4,6-Tribromophenol	330	7.869	7.869	0.000	97	999	0.1000	0.0870	
15 Hexachlorobenzene	284	8.172	8.172	0.000	95	73	0.002000	0.002419	a
16 Pentachlorophenol	266	8.369	8.369	0.000	80	173	0.0200	0.0206	Ma
* 17 Phenanthrene-d10	188	8.540	8.540	0.000	99	16251	0.2000	0.2000	
18 Phenanthrene	178	8.553	8.553	0.000	72	585	0.005000	0.005064	
19 Anthracene	178	8.606	8.606	0.000	99	574	0.005000	0.005118	
21 Fluoranthene	202	9.701	9.701	0.000	94	570	0.005000	0.005185	
22 Pyrene	202	9.915	9.915	0.000	97	629	0.005000	0.005589	
$ 23 Terphenyl-d14	244	10.071	10.081	-0.010	100	5352	0.1000	0.1051	
24 Benzo[a]anthracene	228	11.163	11.163	0.000	99	528	0.005000	0.005694	
* 25 Chrysene-d12	240	11.173	11.183	-0.010	95	12518	0.2000	0.2000	
26 Chrysene	228	11.202	11.212	-0.010	96	540	0.005000	0.005261	
27 Benzo[b]fluoranthene	252	12.489	12.489	0.000	96	471	0.005000	0.005736	
28 Benzo[k]fluoranthene	252	12.518	12.528	-0.010	87	544	0.005000	0.005313	
29 Benzo[a]pyrene	252	12.898	12.908	-0.010	97	378	0.005000	0.005120	M
* 30 Perylene-d12	264	12.976	12.986	-0.010	100	10778	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.370	14.380	-0.010	96	364	0.005000	0.005409	M
32 Dibenz(a,h)anthracene	278	14.419	14.419	0.000	89	321	0.005000	0.004877	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.741	14.751	-0.010	81	449	0.005000	0.005689	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL1_00009 Amount Added: 1.00 Units: mL

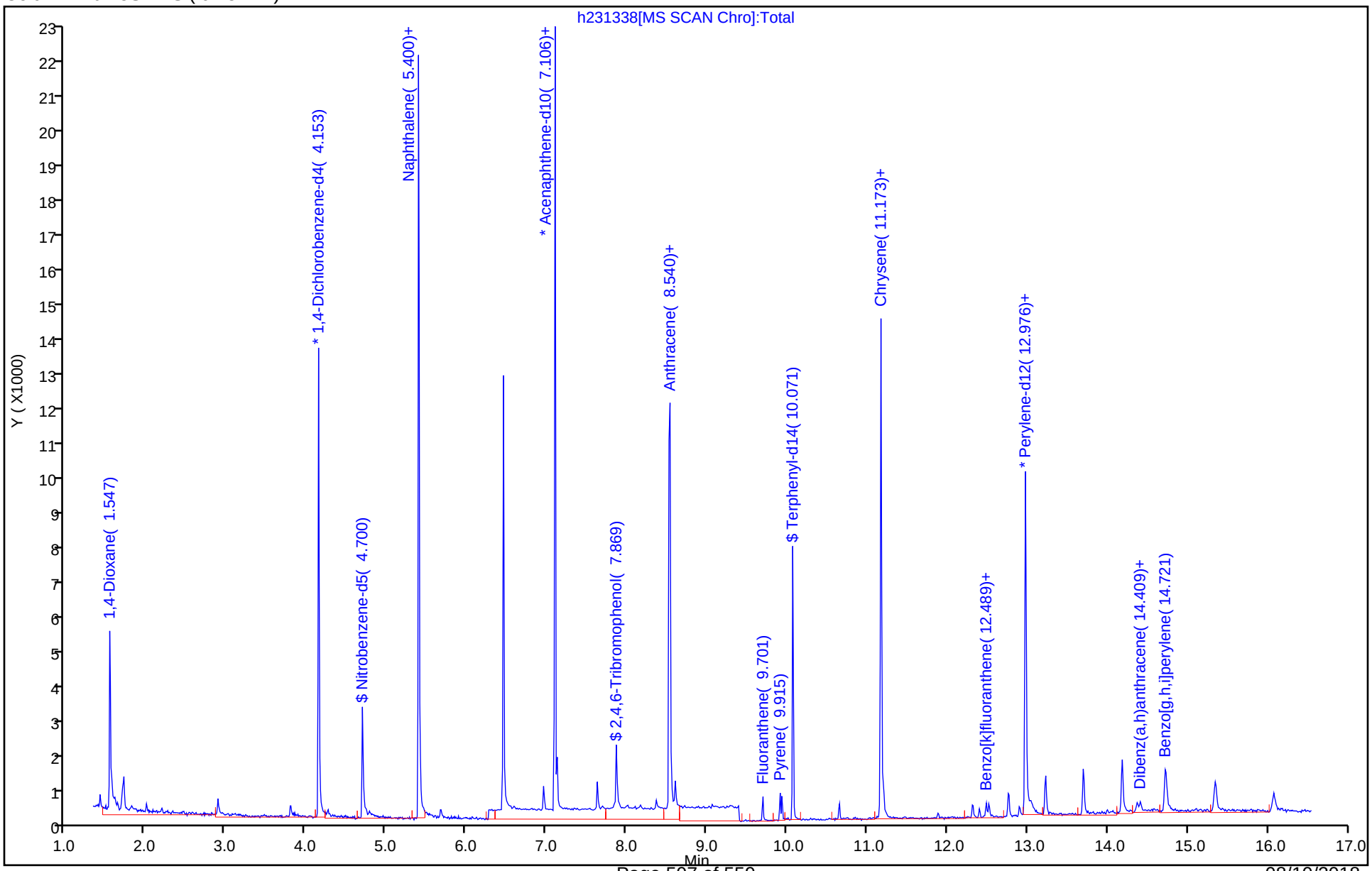
Report Date: 08-Jul-2018 22:33:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Injection Date:	06-Jul-2018 21:33:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std1			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Lab Sample ID: CCVIS 460-540569/2 Calibration Date: 07/29/2018 22:28

Instrument ID: CBNAMS9 Calib Start Date: 07/06/2018 19:48

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 07/06/2018 21:33

Lab File ID: h231885a.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin1		0.5121		188	200	-5.9	20.0
N-Nitrosodimethylamine	Lin		0.3162		73.3	100	-26.7*	20.0
Bis(2-chloroethyl)ether	QuaF		0.8635		16.5	20.0	-17.6	20.0
Naphthalene	Ave	1.112	1.017		18.3	20.0	-8.6	20.0
Acenaphthylene	Ave	2.314	1.790		15.5	20.0	-22.6*	20.0
Acenaphthene	Ave	1.463	1.082		14.8	20.0	-26.0*	20.0
Fluorene	Ave	1.671	1.408		16.9	20.0	-15.7	20.0
4,6-Dinitro-2-methylphenol	Qua2		0.0641		213	200	6.3	20.0
Hexachlorobenzene	Ave	0.3714	0.2475		13.3	20.0	-33.4*	20.0
Pentachlorophenol	Qua		0.1190		110	100	10.0	20.0
Phenanthrene	Ave	1.422	1.107		15.6	20.0	-22.1*	20.0
Anthracene	Ave	1.380	1.146		16.6	20.0	-17.0	20.0
Fluoranthene	Ave	1.353	1.148		17.0	20.0	-15.1	20.0
Pyrene	Ave	1.798	1.445		16.1	20.0	-19.7	20.0
Benzo[a]anthracene	Ave	1.482	1.119		15.1	20.0	-24.5*	20.0
Chrysene	Ave	1.640	1.332		16.2	20.0	-18.8	20.0
Benzo[b]fluoranthene	Ave	1.524	1.057		13.9	20.0	-30.6*	20.0
Benzo[k]fluoranthene	Ave	1.900	1.599		16.8	20.0	-15.8	20.0
Benzo[a]pyrene	Ave	1.370	1.175		17.2	20.0	-14.2	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.249	1.457		23.3	20.0	16.7	20.0
Dibenz(a,h)anthracene	Ave	1.221	1.165		19.1	20.0	-4.6	20.0
Benzo[g,h,i]perylene	Ave	1.465	1.438		19.6	20.0	-1.8	20.0
Nitrobenzene-d5	Ave	0.2894	0.2499		345	400	-13.7	20.0
2-Fluorobiphenyl	Ave	1.565	1.217		311	400	-22.2*	20.0
2,4,6-Tribromophenol	Ave	0.2378	0.1920		323	400	-19.3	20.0
Terphenyl-d14	Ave	0.8138	0.8550		420	400	5.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231885a.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 29-Jul-2018 22:28:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:43:03 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:43:03

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.434	1.434	0.000	89	3612	0.2000	0.1881	M
	2 N-Nitrosodimethylamine	74	1.667	1.667	0.000	77	1115	0.1000	0.0733	
	3 Bis(2-chloroethyl)ether	93	3.727	3.727	0.000	78	609	0.0200	0.0165	
*	5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	100	7053	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.515	4.515	0.000	99	13108	0.4000	0.3454	
*	7 Naphthalene-d8	136	5.223	5.223	0.000	98	26224	0.2000	0.2000	
	8 Naphthalene	128	5.240	5.240	0.000	100	2666	0.0200	0.0183	
$	9 2-Fluorobiphenyl	172	6.286	6.286	0.000	92	33497	0.4000	0.3110	
	10 Acenaphthylene	152	6.786	6.786	0.000	99	2463	0.0200	0.0155	
*	11 Acenaphthene-d10	164	6.918	6.918	0.000	94	13762	0.2000	0.2000	
	12 Acenaphthene	154	6.957	6.957	0.000	96	1489	0.0200	0.0148	
	13 Fluorene	166	7.457	7.457	0.000	97	1937	0.0200	0.0169	
	14 4,6-Dinitro-2-methylphenol	198	7.523	7.523	0.000	84	1508	0.2000	0.2127	
$	20 2,4,6-Tribromophenol	330	7.694	7.694	0.000	88	5284	0.4000	0.3229	
	15 Hexachlorobenzene	284	7.983	7.983	0.000	99	582	0.0200	0.0133	
	16 Pentachlorophenol	266	8.194	8.194	0.000	95	1399	0.1000	0.1100	
*	17 Phenanthrene-d10	188	8.351	8.351	0.000	100	23514	0.2000	0.2000	
	18 Phenanthrene	178	8.365	8.365	0.000	79	2604	0.0200	0.0156	
	19 Anthracene	178	8.417	8.417	0.000	99	2694	0.0200	0.0166	
	21 Fluoranthene	202	9.507	9.507	0.000	96	2700	0.0200	0.0170	
	22 Pyrene	202	9.721	9.721	0.000	99	2866	0.0200	0.0161	
$	23 Terphenyl-d14	244	9.887	9.887	0.000	96	33921	0.4000	0.4203	
	24 Benzo[a]anthracene	228	10.940	10.940	0.000	86	2220	0.0200	0.0151	
*	25 Chrysene-d12	240	10.949	10.949	0.000	93	19836	0.2000	0.2000	
	26 Chrysene	228	10.979	10.979	0.000	98	2642	0.0200	0.0162	
	27 Benzo[b]fluoranthene	252	12.227	12.227	0.000	100	2004	0.0200	0.0139	
	28 Benzo[k]fluoranthene	252	12.256	12.256	0.000	94	3031	0.0200	0.0168	
	29 Benzo[a]pyrene	252	12.626	12.626	0.000	100	2227	0.0200	0.0172	
*	30 Perylene-d12	264	12.694	12.694	0.000	100	18952	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.059	14.059	0.000	88	2762	0.0200	0.0233	
	32 Dibenz(a,h)anthracene	278	14.098	14.098	0.000	90	2208	0.0200	0.0191	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.391	14.391	0.000	83	2726	0.0200	0.0196	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

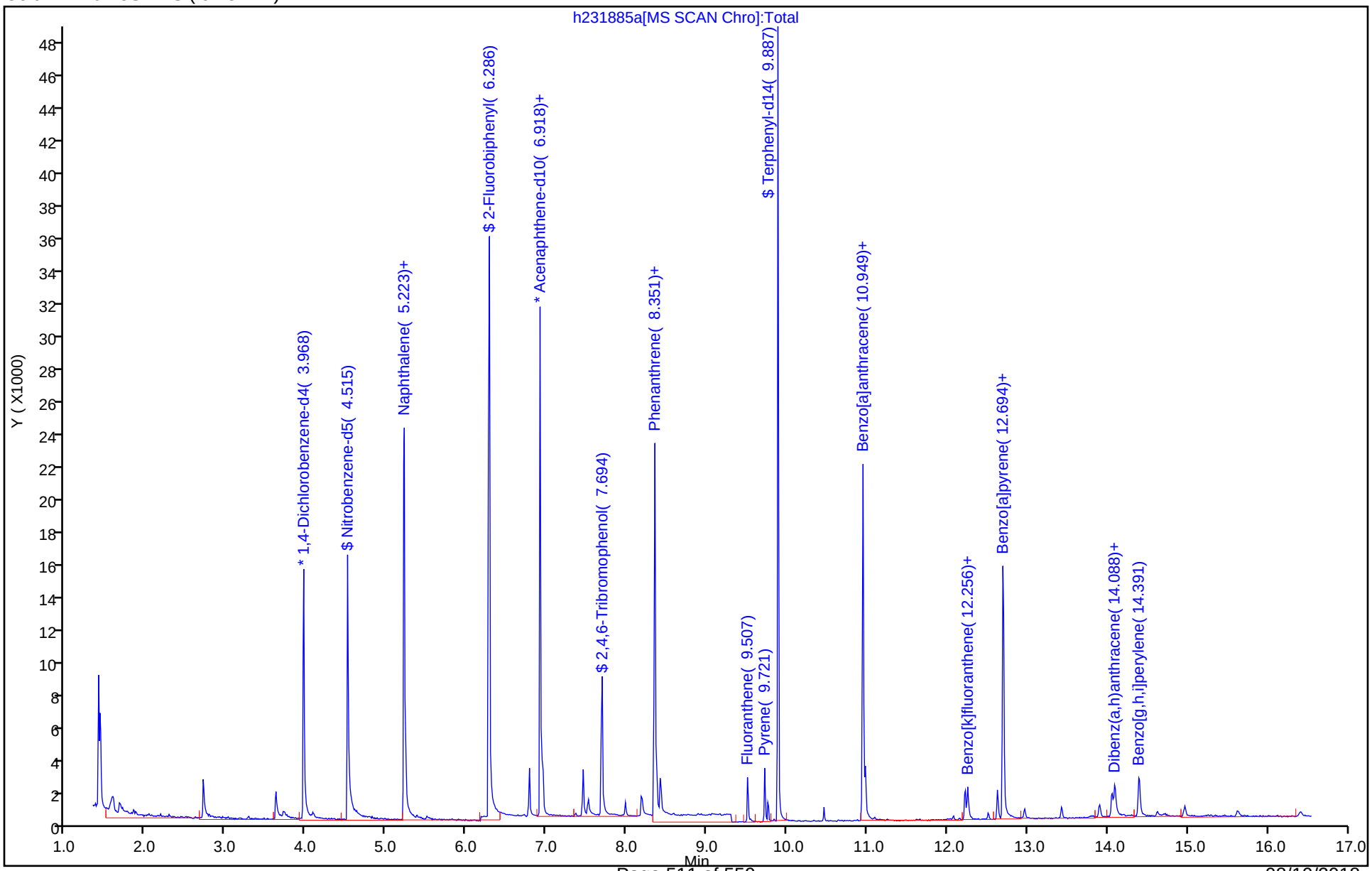
Report Date: 30-Jul-2018 23:43:03 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231885a.D

Injection Date:	29-Jul-2018 22:28:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

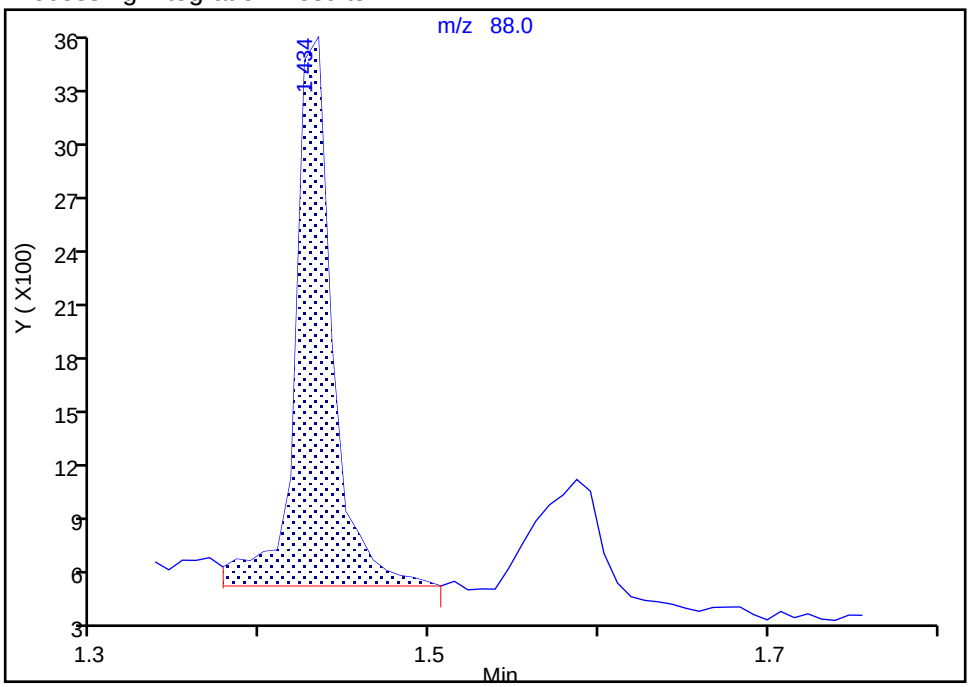
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231885a.D
Injection Date: 29-Jul-2018 22:28:30 Instrument ID: CBNAMS9
Lims ID: ccvis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

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

Signal: 1

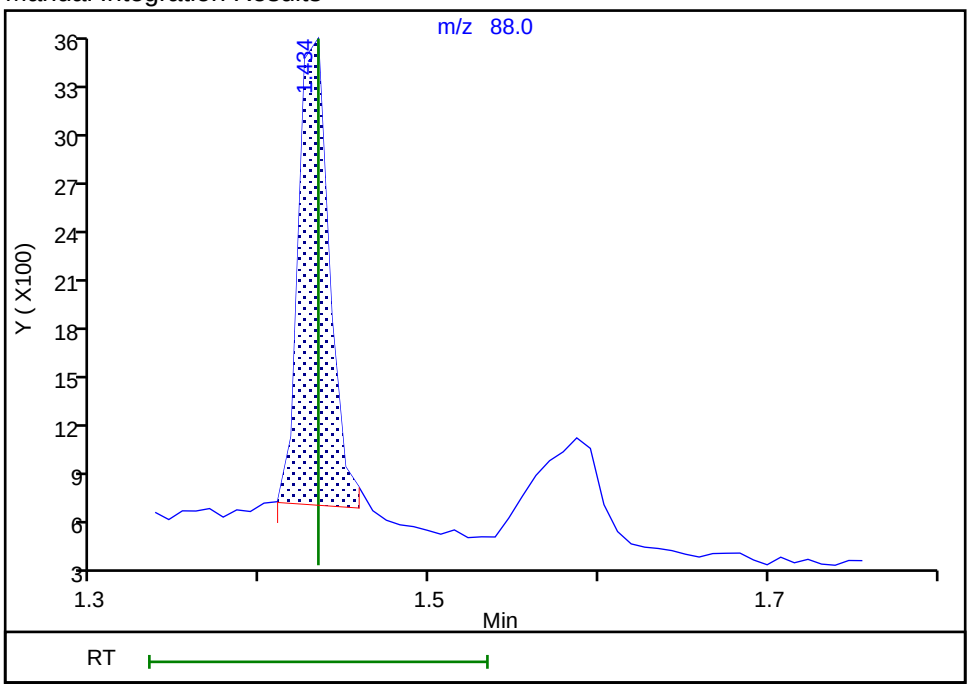
Processing Integration Results

RT: 1.43
Area: 4657
Amount: 0.250786
Amount Units: ug/ml



Manual Integration Results

RT: 1.43
Area: 3612
Amount: 0.188123
Amount Units: ug/ml



Reviewer: hamziy, 29-Jul-2018 23:22:43
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 06-Jul-2018 17:35:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074970-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 08-Jul-2018 20:59:21 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK004

First Level Reviewer: xuyvo Date: 08-Jul-2018 20:25:24

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.834	4.834	0.000	0	83686	NR	NR	a
35 DFTPP									
36 Benzidine_T	184	6.558	6.558	0.000	0	642380	NR	NR	
37 4,4'-DDD	235	7.197	7.197	0.000	0	2374		NR	
39 4,4'-DDT	235	7.494	7.494	0.000	0	249227	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

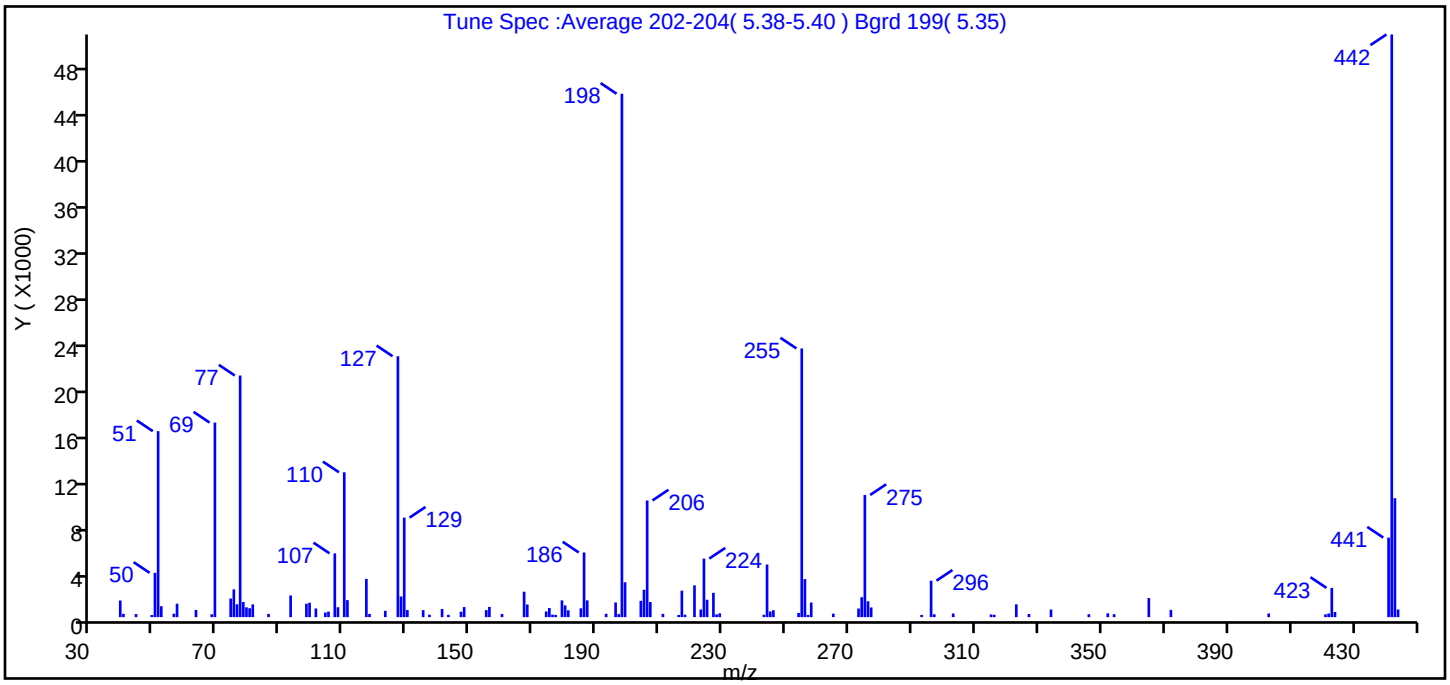
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D
Injection Date: 06-Jul-2018 17:35:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	35.5
68	<2% of mass 69	0.5 (1.5)
69	Present	37.2
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.8
197	<1% of mass 198	0.6
199	5-9% of mass 198	6.7
275	10-30% of mass 198	23.3
365	>1% of mass 198	3.6
441	Present but less than mass 443	15.2 (66.9)
442	>40% of mass 198	111.3
443	17-23% of mass 442	22.7 (20.4)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 06-Jul-2018 17:35:30
Spectrum: Tune Spec :Average 202-204(5.38-5.40) Bgrd 199(5.35)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 117

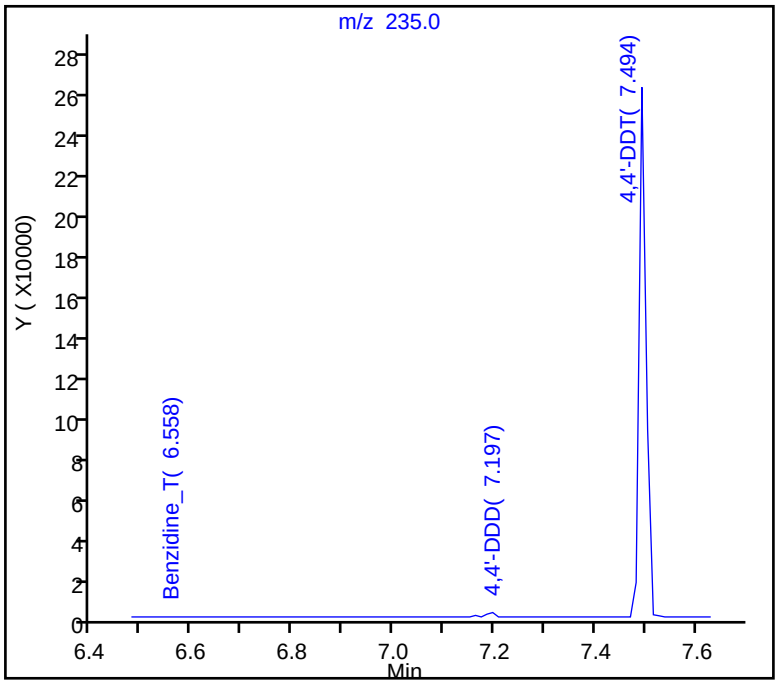
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1437	111.00	1472	196.00	1265	274.00	1718
40.00	284	117.00	3298	197.00	262	275.00	10539
44.00	266	118.00	275	198.00	45144	276.00	1370
49.00	184	123.00	545	199.00	3007	277.00	836
50.00	3821	127.00	22504	204.00	1410	293.00	194
51.00	16042	128.00	1782	205.00	2361	296.00	3144
52.00	943	129.00	8584	206.00	10066	297.00	243
56.00	300	130.00	611	207.00	1304	303.00	313
57.00	1159	135.00	604	211.00	284	315.00	235
63.00	621	137.00	212	216.00	189	316.00	204
68.00	246	141.00	701	217.00	2284	323.00	1104
69.00	16784	143.00	202	218.00	211	327.00	271
74.00	1606	147.00	470	221.00	2743	334.00	653
75.00	2395	148.00	870	223.00	656	346.00	253
76.00	1106	155.00	606	224.00	5051	352.00	328
77.00	20840	156.00	885	225.00	1500	354.00	256
78.00	1306	160.00	277	227.00	2099	365.00	1647
79.00	846	167.00	2193	228.00	238	372.00	626
80.00	769	168.00	1094	229.00	328	403.00	315
81.00	1100	174.00	492	243.00	209	421.00	241
86.00	280	175.00	789	244.00	4537	422.00	310
93.00	1870	176.00	214	245.00	491	423.00	2522
98.00	1157	177.00	198	246.00	595	424.00	443
99.00	1244	179.00	1446	254.00	367	441.00	6860
101.00	748	180.00	1016	255.00	23176	442.00	50256
104.00	397	181.00	589	256.00	3279	443.00	10259
105.00	480	185.00	764	257.00	191	444.00	658
107.00	5505	186.00	5579	258.00	1262		
108.00	855	187.00	1446	265.00	301		
110.00	12496	193.00	292	273.00	744		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D
Injection Date: 06-Jul-2018 17:35:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 249227
37 4,4'-DDD, Area = 2374
38 4,4'-DDE, Area = 0

%Breakdown: 0.94%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

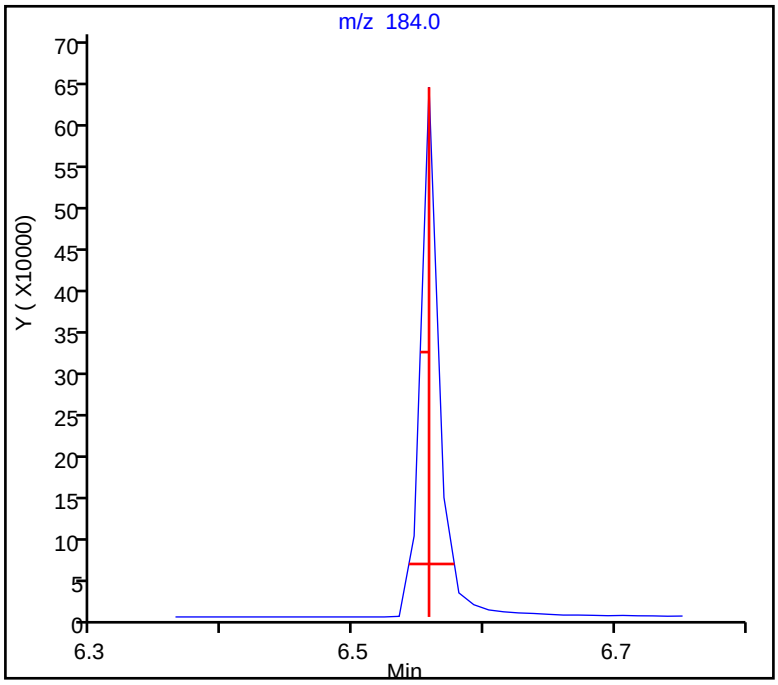
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D
Injection Date: 06-Jul-2018 17:35:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.019 (min.)
Front Width = 0.015 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

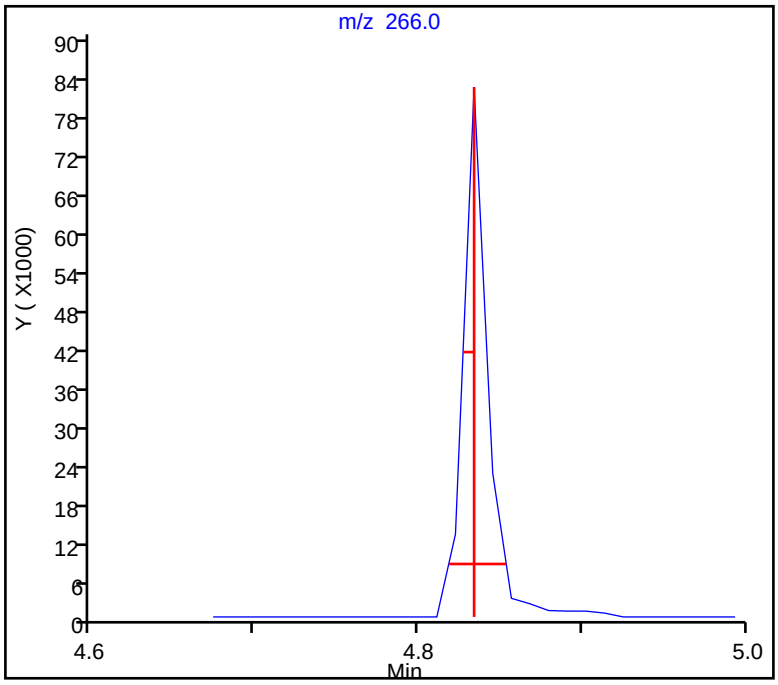
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231328.D
Injection Date: 06-Jul-2018 17:35:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.016 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 29-Jul-2018 21:40:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:41:10 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:41:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.617	4.617	0.000	0	184997	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.353	6.353	0.000	0	824151	NR	NR	
39 4,4'-DDT	235	7.289	7.289	0.000	0	347636	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

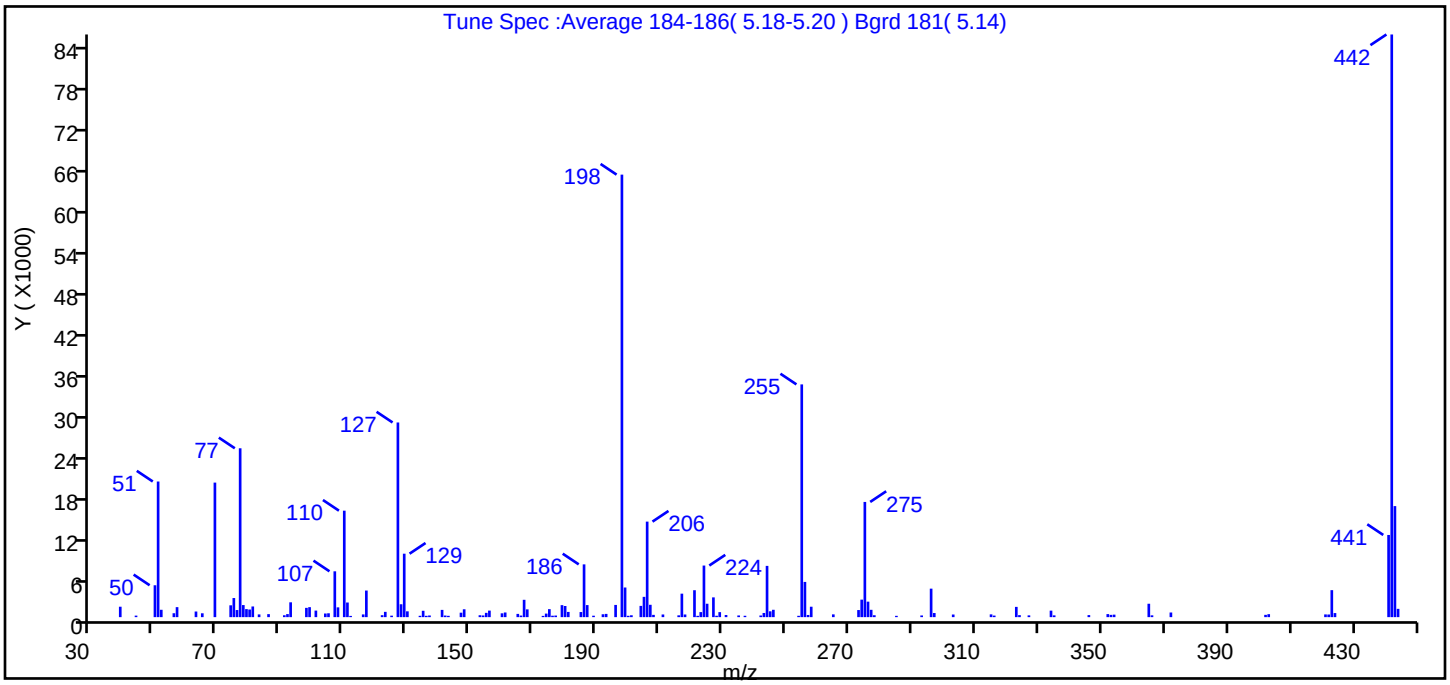
SMDFTP_CH_00025 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D
Injection Date: 29-Jul-2018 21:40:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	30.6
68	<2% of mass 69	0.0 (0.0)
69	Present	30.4
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	44.0
197	<1% of mass 198	0.0
199	5-9% of mass 198	6.7
275	10-30% of mass 198	26.0
365	>1% of mass 198	3.0
441	Present but less than mass 443	18.6 (74.0)
442	>40% of mass 198	131.7
443	17-23% of mass 442	25.1 (19.1)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D\BNsurrSIM_LVI_9.rslt\spectra.
Injection Date: 29-Jul-2018 21:40:30
Spectrum: Tune Spec :Average 184-186(5.18-5.20) Bgrd 181(5.14)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 146

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1531	125.00	217	193.00	477	273.00	1042
44.00	225	127.00	28592	196.00	1793	274.00	2572
50.00	4683	128.00	1893	198.00	64992	275.00	16920
51.00	19920	129.00	9319	199.00	4353	276.00	2275
52.00	1081	130.00	854	200.00	199	277.00	1077
56.00	574	134.00	199	201.00	276	278.00	280
57.00	1469	135.00	935	204.00	1653	285.00	193
63.00	827	136.00	195	205.00	2981	293.00	247
65.00	567	137.00	244	206.00	14030	296.00	4185
69.00	19760	141.00	1065	207.00	1815	297.00	605
74.00	1737	142.00	236	208.00	335	303.00	387
75.00	2807	143.00	195	211.00	392	315.00	407
76.00	1043	147.00	653	216.00	266	316.00	229
77.00	24800	148.00	1156	217.00	3449	323.00	1507
78.00	1773	153.00	279	218.00	390	324.00	297
79.00	1181	154.00	247	221.00	3954	327.00	260
80.00	1119	155.00	630	222.00	193	334.00	954
81.00	1568	156.00	960	223.00	740	335.00	260
83.00	402	160.00	563	224.00	7578	346.00	299
86.00	442	161.00	684	225.00	1969	352.00	446
91.00	278	165.00	478	227.00	2903	353.00	334
92.00	447	166.00	232	228.00	205	354.00	367
93.00	2179	167.00	2547	229.00	736	365.00	1968
98.00	1364	168.00	1142	231.00	311	366.00	266
99.00	1467	173.00	185	235.00	247	372.00	682
101.00	962	174.00	521	237.00	201	402.00	337
104.00	533	175.00	1174	242.00	242	403.00	436
105.00	568	176.00	211	243.00	611	421.00	400
107.00	6731	177.00	234	244.00	7528	422.00	387
108.00	1438	179.00	1761	245.00	857	423.00	3964
110.00	15637	180.00	1637	246.00	1081	424.00	598
111.00	2149	181.00	766	254.00	197	441.00	12069
112.00	184	185.00	748	255.00	34184	442.00	85576

Report Date: 30-Jul-2018 23:41:10 Chrom Revision: 2.3 19-Jul-2018 15:14:50
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D\BNsurrSIM_LVI_9.rslt\spectra.
Injection Date: 29-Jul-2018 21:40:30
Spectrum: Tune Spec :Average 184-186(5.18-5.20) Bgrd 181(5.14)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 146

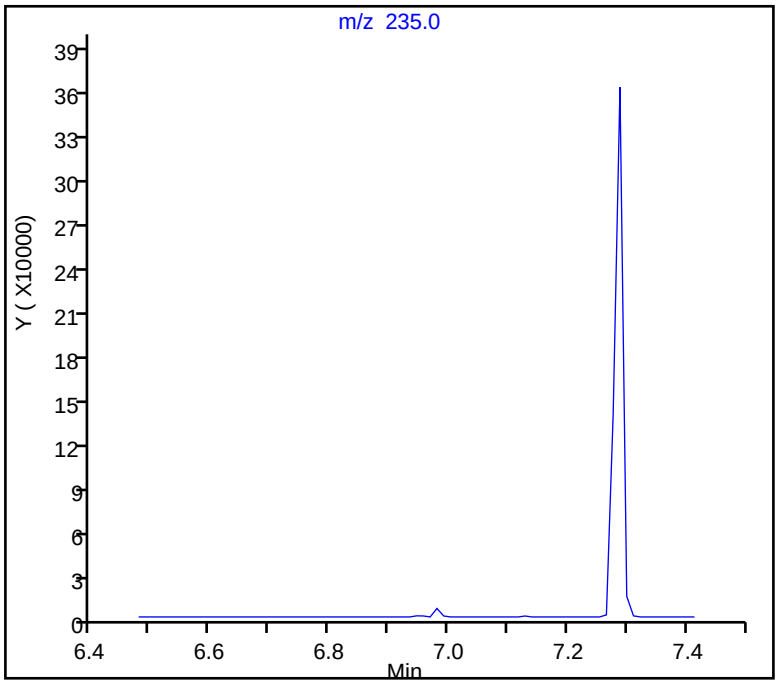
m/z	Y	m/z	Y	m/z	Y	m/z	Y
116.00	400	186.00	7751	256.00	5173	443.00	16308
117.00	3906	187.00	1770	257.00	319	444.00	1218
122.00	286	189.00	210	258.00	1531		
123.00	778	192.00	424	265.00	407		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D
Injection Date: 29-Jul-2018 21:40:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 347636
37 4,4'-DDD, Area = 0
38 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

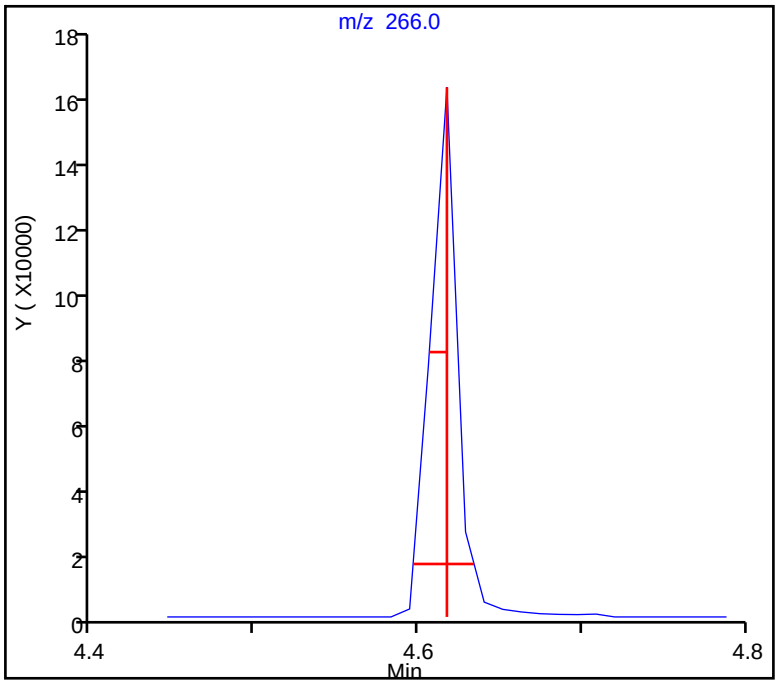
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D
Injection Date: 29-Jul-2018 21:40:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.017 (min.)
Front Width = 0.021 (min.)

Tailing Factor = 0.8, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

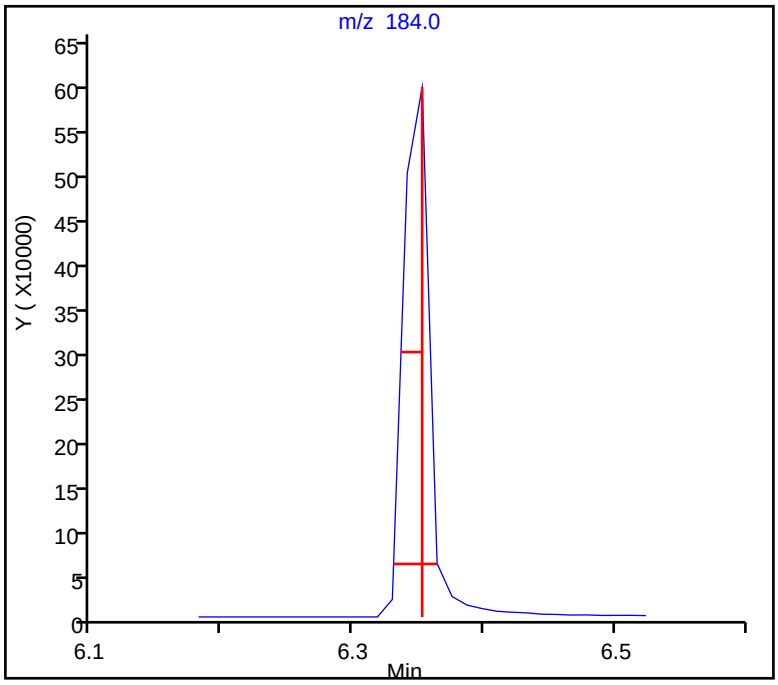
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231884c.D
Injection Date: 29-Jul-2018 21:40:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.012 (min.)
Front Width = 0.022 (min.)

Tailing Factor = 0.5, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-540563/1-A

Matrix: Water | Lab File ID: h231887.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/29/2018 23:15

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231887.D
Lims ID: MB 460-540563/1-A
Client ID:
Sample Type: MB
Inject. Date: 29-Jul-2018 23:15:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-004
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:45:04 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:45:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	3.969	3.968	0.000	100	7044	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.508	4.515	-0.007	93	37658	1.00	0.9834	
* 7 Naphthalene-d8	136	5.224	5.223	0.001	98	26459	0.2000	0.2000	
$ 9 2-Fluorobiphenyl	172	6.286	6.286	0.000	92	73136	1.00	0.6993	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	95	13364	0.2000	0.2000	
$ 20 2,4,6-Tribromophenol	330	7.694	7.694	0.000	85	12848	1.00	0.8085	
* 17 Phenanthrene-d10	188	8.352	8.351	0.001	100	25763	0.2000	0.2000	
$ 23 Terphenyl-d14	244	9.887	9.887	0.000	97	73406	1.00	0.8921	
* 25 Chrysene-d12	240	10.950	10.949	0.001	93	20222	0.2000	0.2000	
* 30 Perylene-d12	264	12.704	12.694	0.010	100	18506	0.2000	0.2000	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

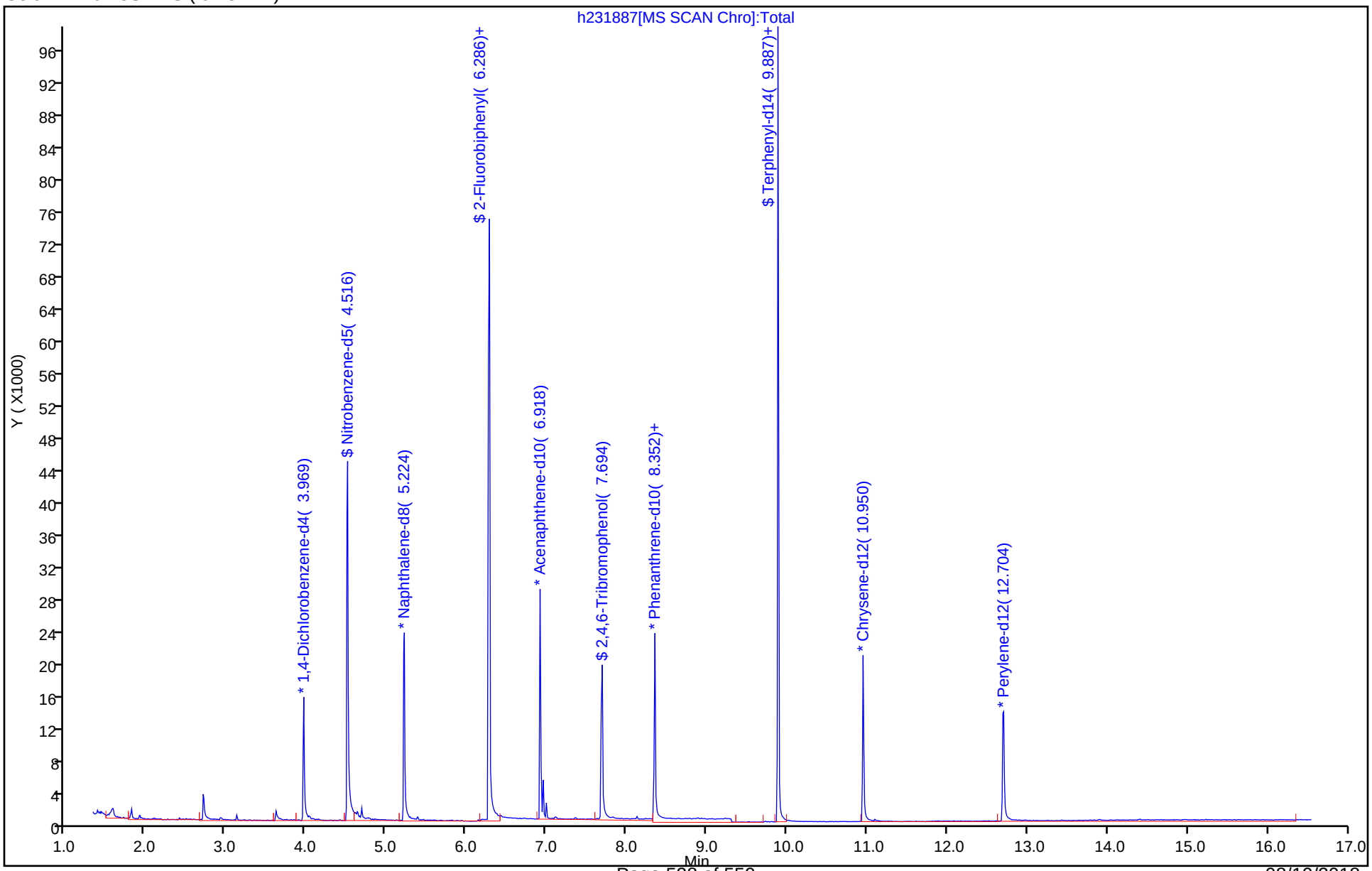
Report Date: 30-Jul-2018 23:45:06 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231887.D

Injection Date:	29-Jul-2018 23:15:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	MB 460-540563/1-A			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



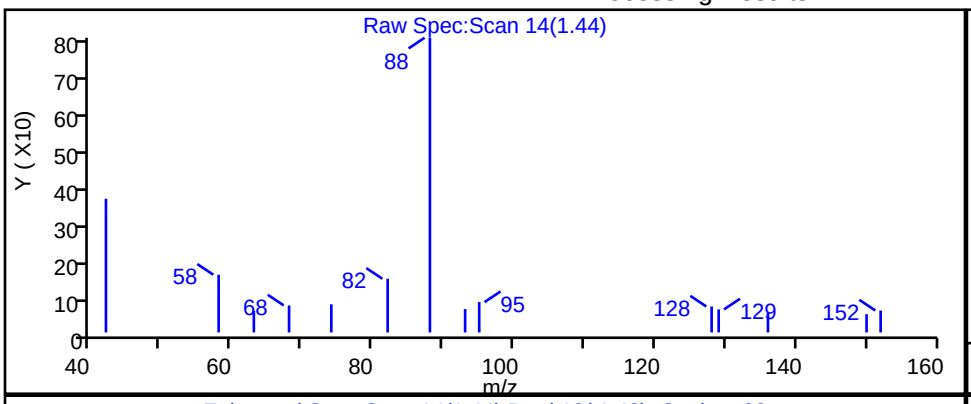
User Disabled Compound Report

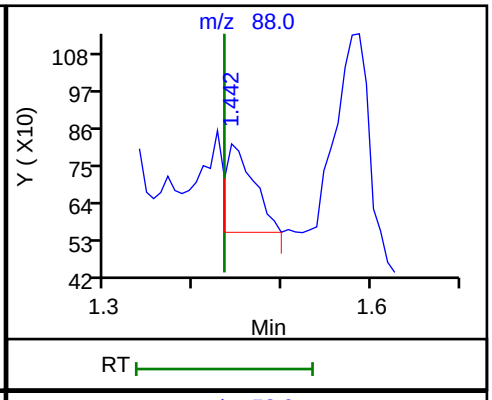
TestAmerica Edison

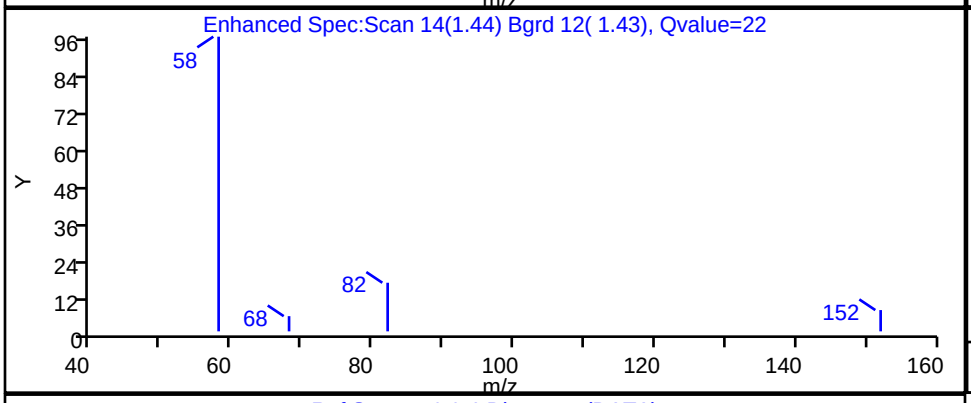
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231887.D
Injection Date: 29-Jul-2018 23:15:30 Instrument ID: CBNAMS9
Lims ID: MB 460-540563/1-A
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

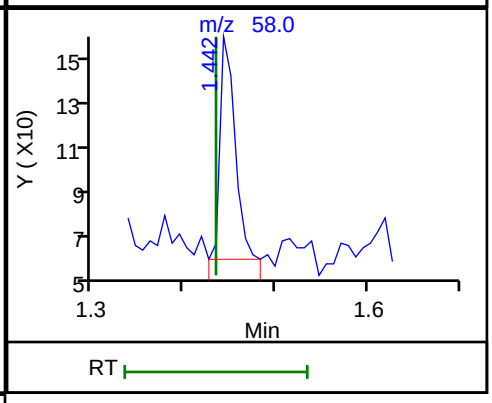
1 1,4-Dioxane, CAS: 123-91-1

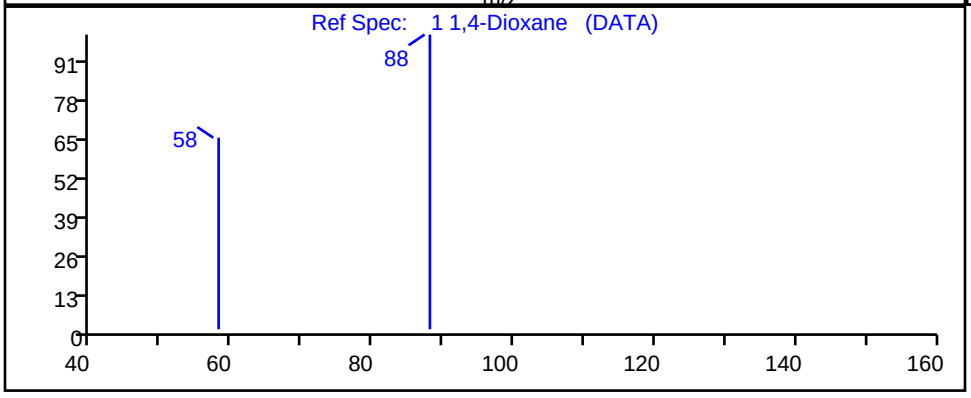
Processing Results











RT	Mass	Response	Amount
1.44	88.00	582	0.006476
1.44	58.00	109	

Reviewer: zhaoc, 30-Jul-2018 13:39:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-540563/2-A

Matrix: Water | Lab File ID: h231888.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/29/2018 23:36

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.248	J	0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231888.D
Lims ID: LCS 460-540563/2-A
Client ID:
Sample Type: LCS
Inject. Date: 29-Jul-2018 23:36:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-005
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:45:56 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:45:56

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.442	1.434	0.008	93	978	0.1000	0.0310	
2 N-Nitrosodimethylamine	74	1.812	1.667	0.145	93	772	0.1000	0.0544	
3 Bis(2-chloroethyl)ether	93	3.711	3.727	-0.016	87	4043	0.1000	0.1099	
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	99	6953	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.507	4.515	-0.008	95	37066	1.00	0.9831	
* 7 Naphthalene-d8	136	5.215	5.223	-0.008	100	26051	0.2000	0.2000	
8 Naphthalene	128	5.240	5.240	0.000	100	10303	0.1000	0.0711	
$ 9 2-Fluorobiphenyl	172	6.286	6.286	0.000	92	77013	1.00	0.7032	
10 Acenaphthylene	152	6.786	6.786	0.000	100	8716	0.1000	0.0538	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	94	13995	0.2000	0.2000	
12 Acenaphthene	154	6.944	6.957	-0.013	90	5910	0.1000	0.0577	
13 Fluorene	166	7.444	7.457	-0.013	92	7921	0.1000	0.0678	
14 4,6-Dinitro-2-methylphenol	198	7.523	7.523	0.000	82	1671	0.2000	0.2339	
$ 20 2,4,6-Tribromophenol	330	7.681	7.694	-0.014	99	14000	1.00	0.8412	
15 Hexachlorobenzene	284	7.983	7.983	0.000	99	3434	0.1000	0.0796	
16 Pentachlorophenol	266	8.180	8.194	-0.014	89	3185	0.2000	0.2379	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	100	23239	0.2000	0.2000	
18 Phenanthrene	178	8.365	8.365	0.000	98	15116	0.1000	0.0915	
19 Anthracene	178	8.417	8.417	0.000	100	15308	0.1000	0.0954	
21 Fluoranthene	202	9.507	9.507	0.000	96	15865	0.1000	0.1009	
22 Pyrene	202	9.721	9.721	0.000	97	16185	0.1000	0.0907	
$ 23 Terphenyl-d14	244	9.887	9.887	0.000	96	75382	1.00	0.9340	
24 Benzo[a]anthracene	228	10.940	10.940	0.000	44	12367	0.1000	0.0842	
* 25 Chrysene-d12	240	10.949	10.949	0.000	96	19836	0.2000	0.2000	
26 Chrysene	228	10.979	10.979	0.000	98	15727	0.1000	0.0967	
27 Benzo[b]fluoranthene	252	12.217	12.227	-0.009	100	12360	0.1000	0.0917	
28 Benzo[k]fluoranthene	252	12.256	12.256	0.000	99	15266	0.1000	0.0908	
29 Benzo[a]pyrene	252	12.626	12.626	0.000	100	11871	0.1000	0.0979	
* 30 Perylene-d12	264	12.694	12.694	0.000	100	17701	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.049	14.059	-0.010	89	12059	0.1000	0.1091	
32 Dibenz(a,h)anthracene	278	14.088	14.098	-0.010	94	12061	0.1000	0.1116	
33 Benzo[g,h,i]perylene	276	14.391	14.391	0.000	78	14883	0.1000	0.1148	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

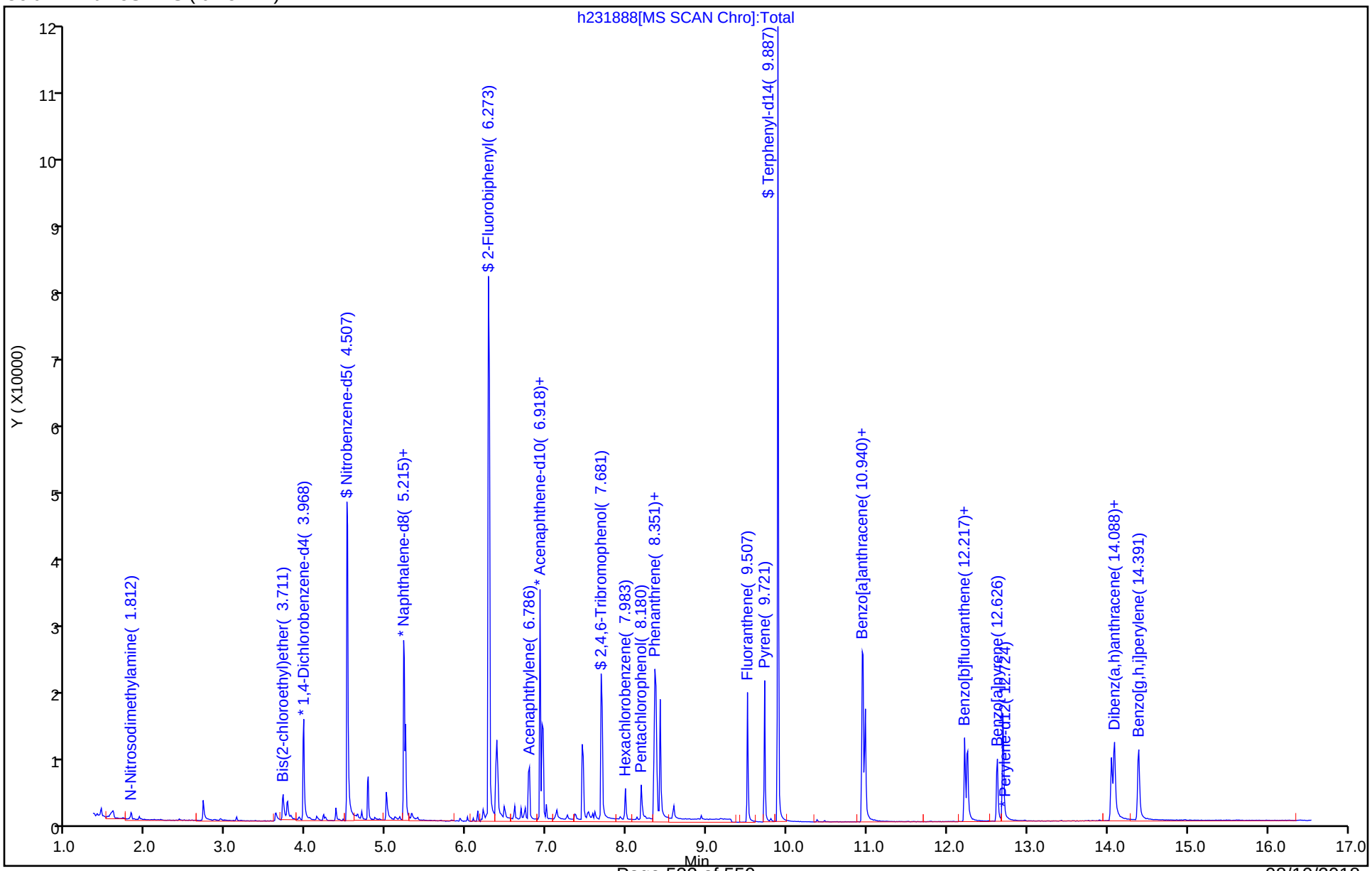
Report Date: 30-Jul-2018 23:45:57 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231888.D

Injection Date:	29-Jul-2018 23:36:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	LCS 460-540563/2-A			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MS | Lab Sample ID: 480-139579-10 MS

Matrix: Water | Lab File ID: h231889.D

Analysis Method: 8270C | Date Collected: 07/25/2018 12:25

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/29/2018 23:57

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.519		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231889.D
Lims ID: 480-139579-C-10-A MS
Client ID: MW-161-3-20180725
Sample Type: MS
Inject. Date: 29-Jul-2018 23:57:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-006
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:45:56 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:46:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.442	1.434	0.008	99	1426	0.1000	0.0648	
2 N-Nitrosodimethylamine	74	1.699	1.667	0.032	81	212	0.1000	0.0229	
3 Bis(2-chloroethyl)ether	93	3.711	3.727	-0.016	89	4298	0.1000	0.1254	
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	98	6464	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.507	4.515	-0.008	94	36248	1.00	1.02	
* 7 Naphthalene-d8	136	5.215	5.223	-0.008	100	24593	0.2000	0.2000	
8 Naphthalene	128	5.240	5.240	0.000	100	10812	0.1000	0.0791	
$ 9 2-Fluorobiphenyl	172	6.286	6.286	0.000	92	76889	1.00	0.7568	
10 Acenaphthylene	152	6.786	6.786	0.000	99	9310	0.1000	0.0620	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	94	12982	0.2000	0.2000	
12 Acenaphthene	154	6.944	6.957	-0.013	90	6391	0.1000	0.0673	
13 Fluorene	166	7.444	7.457	-0.013	92	8226	0.1000	0.0759	
14 4,6-Dinitro-2-methylphenol	198	7.523	7.523	0.000	81	1822	0.2000	0.2737	
$ 20 2,4,6-Tribromophenol	330	7.681	7.694	-0.013	99	13814	1.00	0.8948	
15 Hexachlorobenzene	284	7.983	7.983	0.000	99	3063	0.1000	0.0786	
16 Pentachlorophenol	266	8.180	8.194	-0.014	88	3800	0.2000	0.3045	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	100	20995	0.2000	0.2000	
18 Phenanthrene	178	8.365	8.365	0.000	98	13863	0.1000	0.0929	
19 Anthracene	178	8.417	8.417	0.000	100	14265	0.1000	0.0985	
21 Fluoranthene	202	9.507	9.507	0.000	96	14488	0.1000	0.1020	
22 Pyrene	202	9.721	9.721	0.000	98	14486	0.1000	0.0894	
$ 23 Terphenyl-d14	244	9.887	9.887	0.000	96	64194	1.00	0.8756	
24 Benzo[a]anthracene	228	10.940	10.940	0.000	43	11779	0.1000	0.0883	
* 25 Chrysene-d12	240	10.949	10.949	0.000	96	18017	0.2000	0.2000	
26 Chrysene	228	10.979	10.979	0.000	99	14385	0.1000	0.0974	
27 Benzo[b]fluoranthene	252	12.217	12.227	-0.009	100	11574	0.1000	0.0937	
28 Benzo[k]fluoranthene	252	12.256	12.256	0.000	99	14168	0.1000	0.0920	
29 Benzo[a]pyrene	252	12.626	12.626	0.000	100	10546	0.1000	0.0949	
* 30 Perylene-d12	264	12.694	12.694	0.000	100	16217	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.050	14.059	-0.009	89	10945	0.1000	0.1081	
32 Dibenz(a,h)anthracene	278	14.089	14.098	-0.010	94	12643	0.1000	0.1277	
33 Benzo[g,h,i]perylene	276	14.391	14.391	0.000	77	13826	0.1000	0.1164	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

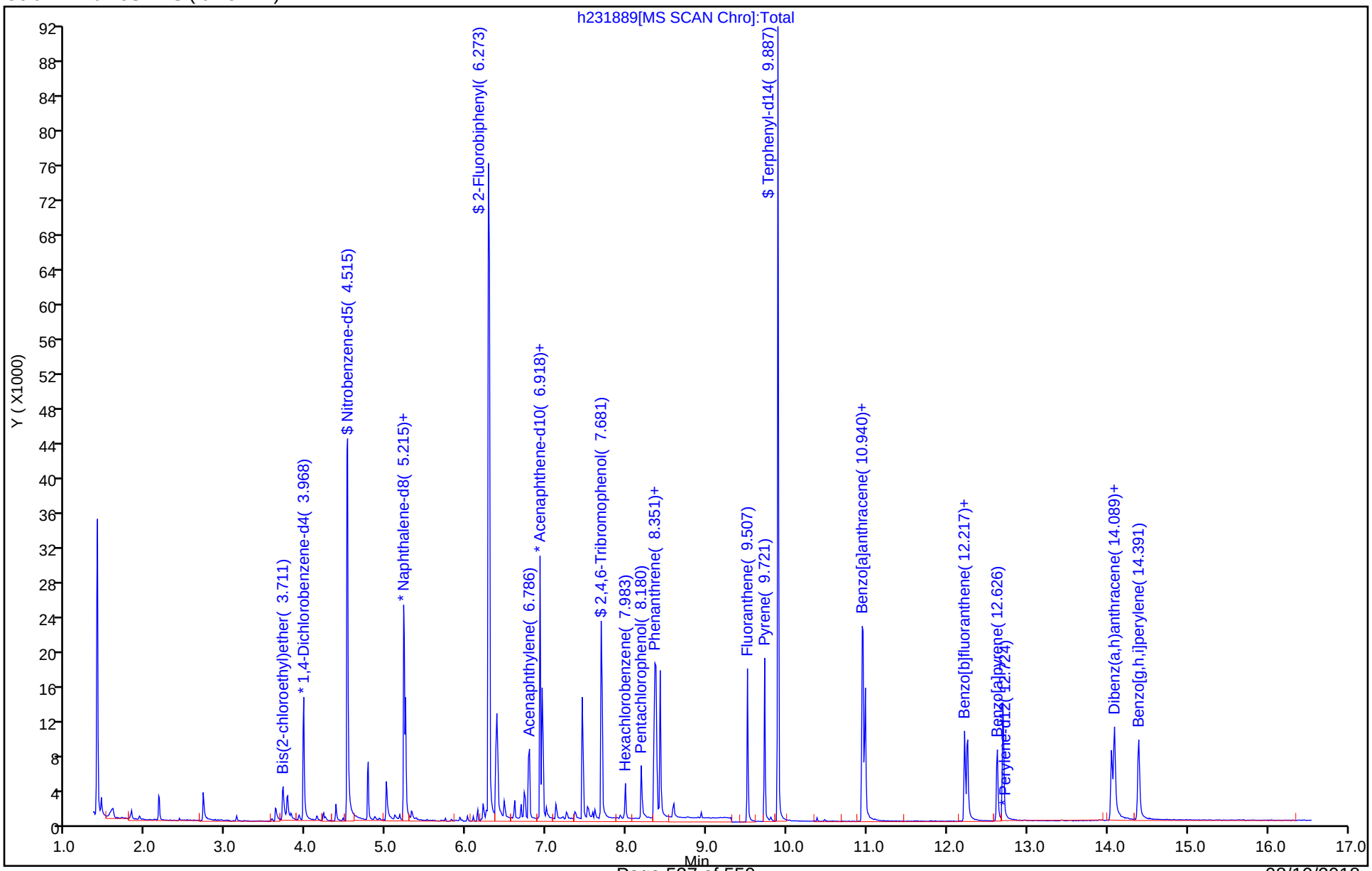
Report Date: 30-Jul-2018 23:46:43 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231889.D

Injection Date:	29-Jul-2018 23:57:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-10-A MS			Worklist Smp#:	6
Client ID:	MW-161-3-20180725				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 480-139579-1

SDG No.:

Client Sample ID: MW-161-3-20180725 MSD | Lab Sample ID: 480-139579-10 MSD

Matrix: Water | Lab File ID: h231890.D

Analysis Method: 8270C | Date Collected: 07/25/2018 12:25

Extract. Method: 3510C | Date Extracted: 07/29/2018 09:28

Sample wt/vol: 250(mL) | Date Analyzed: 07/30/2018 00:18

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 540569 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.683		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231890.D
Lims ID: 480-139579-C-10-B MSD
Client ID: MW-161-3-20180725
Sample Type: MSD
Inject. Date: 30-Jul-2018 00:18:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0076294-007
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 30-Jul-2018 23:45:56 Calib Date: 06-Jul-2018 21:33:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180706-75003.b\h231338.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: eisam Date: 30-Jul-2018 23:47:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.442	1.434	0.008	94	1709	0.1000	0.0854	
2 N-Nitrosodimethylamine	74	1.691	1.667	0.024	77	154	0.1000	0.0195	
3 Bis(2-chloroethyl)ether	93	3.711	3.727	-0.016	89	3939	0.1000	0.1171	
* 5 1,4-Dichlorobenzene-d4	152	3.968	3.968	0.000	97	6349	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.507	4.515	-0.008	94	33194	1.00	0.9394	
* 7 Naphthalene-d8	136	5.215	5.223	-0.008	100	24416	0.2000	0.2000	
8 Naphthalene	128	5.240	5.240	0.000	100	10608	0.1000	0.0781	
$ 9 2-Fluorobiphenyl	172	6.273	6.286	-0.013	99	71132	1.00	0.7095	
10 Acenaphthylene	152	6.786	6.786	0.000	99	9774	0.1000	0.0660	
* 11 Acenaphthene-d10	164	6.918	6.918	0.000	94	12810	0.2000	0.2000	
12 Acenaphthene	154	6.944	6.957	-0.013	89	6596	0.1000	0.0704	
13 Fluorene	166	7.444	7.457	-0.013	91	8514	0.1000	0.0796	
14 4,6-Dinitro-2-methylphenol	198	7.523	7.523	0.000	82	1807	0.2000	0.2775	
$ 20 2,4,6-Tribromophenol	330	7.681	7.694	-0.013	99	12992	1.00	0.8529	
15 Hexachlorobenzene	284	7.983	7.983	0.000	99	3031	0.1000	0.0797	
16 Pentachlorophenol	266	8.180	8.194	-0.014	92	3696	0.2000	0.3036	
* 17 Phenanthrene-d10	188	8.351	8.351	0.000	100	20488	0.2000	0.2000	
18 Phenanthrene	178	8.365	8.365	0.000	97	13783	0.1000	0.0946	
19 Anthracene	178	8.417	8.417	0.000	100	13188	0.1000	0.0933	
21 Fluoranthene	202	9.507	9.507	0.000	95	14474	0.1000	0.1044	
22 Pyrene	202	9.721	9.721	0.000	97	14290	0.1000	0.0885	
$ 23 Terphenyl-d14	244	9.887	9.887	0.000	96	61417	1.00	0.8403	
24 Benzo[a]anthracene	228	10.940	10.940	0.000	56	11259	0.1000	0.0846	
* 25 Chrysene-d12	240	10.949	10.949	0.000	95	17963	0.2000	0.2000	
26 Chrysene	228	10.979	10.979	0.000	98	13953	0.1000	0.0947	
27 Benzo[b]fluoranthene	252	12.217	12.227	-0.009	100	11284	0.1000	0.0942	
28 Benzo[k]fluoranthene	252	12.246	12.256	-0.010	98	12828	0.1000	0.0859	
29 Benzo[a]pyrene	252	12.626	12.626	0.000	99	9393	0.1000	0.0872	
* 30 Perylene-d12	264	12.694	12.694	0.000	100	15726	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.050	14.059	-0.009	90	10878	0.1000	0.1108	
32 Dibenz(a,h)anthracene	278	14.089	14.098	-0.009	93	11367	0.1000	0.1184	
33 Benzo[g,h,i]perylene	276	14.391	14.391	0.000	76	13535	0.1000	0.1175	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

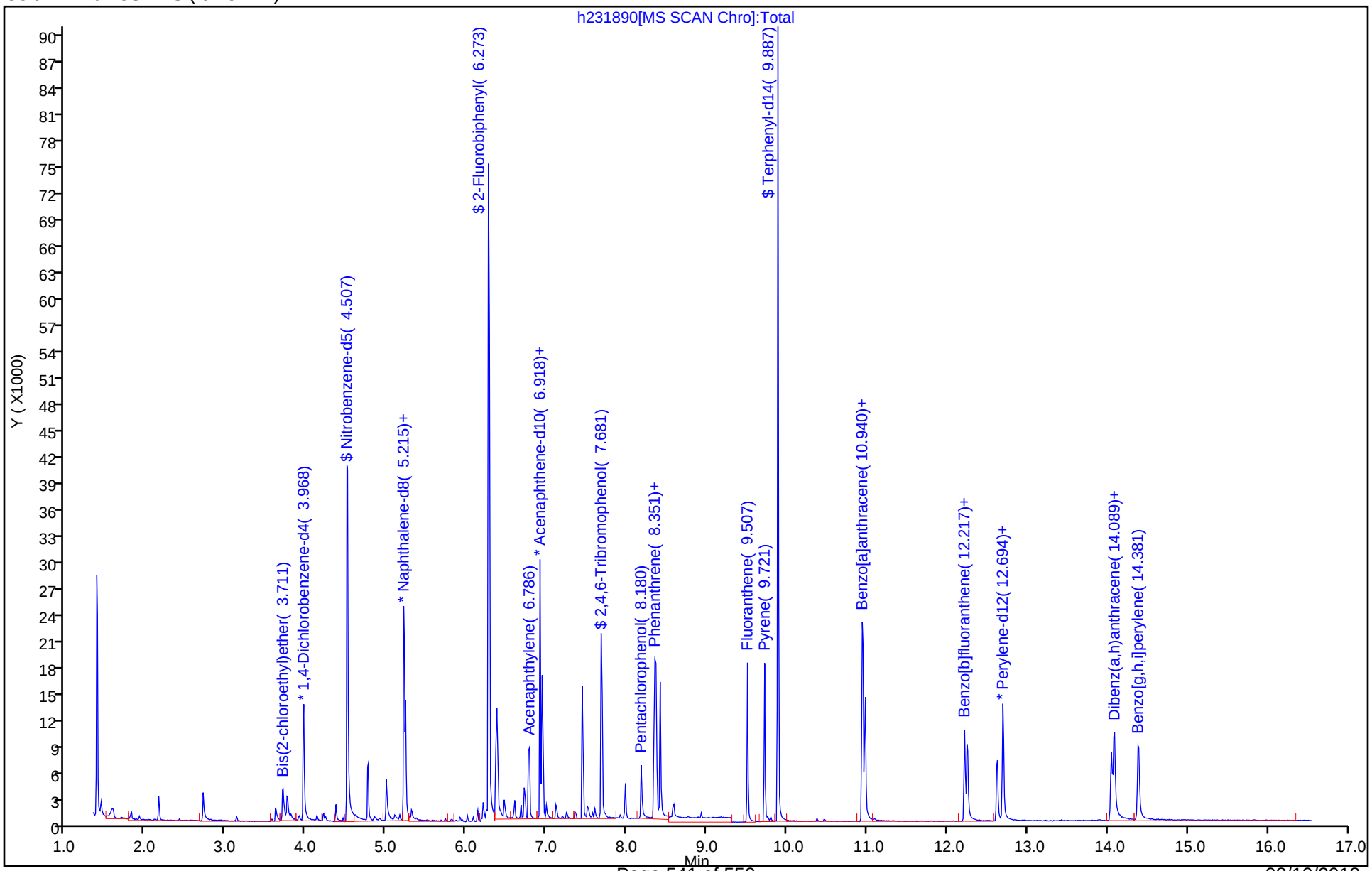
Report Date: 30-Jul-2018 23:47:17 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180729-76294.b\h231890.D

Injection Date:	30-Jul-2018 00:18:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	480-139579-C-10-B MSD			Worklist Smp#:	7
Client ID:	MW-161-3-20180725				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 07/06/2018 17:35

Analysis Batch Number: 534106 End Date: 07/06/2018 21:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-534106/1		07/06/2018 17:35	1	h231328.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-534106/2		07/06/2018 19:48	1	h231333.D	Rtxi-5Sil MS 0.25(mm)
STD6 460-534106/3 IC		07/06/2018 20:09	1	h231334.D	Rtxi-5Sil MS 0.25(mm)
STD5 460-534106/4 IC		07/06/2018 20:30	1	h231335.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-534106/5 IC		07/06/2018 20:51	1	h231336.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-534106/6 IC		07/06/2018 21:12	1	h231337.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-534106/7 IC		07/06/2018 21:33	1	h231338.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-534106/8		07/06/2018 21:55	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 07/29/2018 21:40

Analysis Batch Number: 540569 End Date: 07/30/2018 02:47

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-540569/1		07/29/2018 21:40	1	h231884c.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-540569/2		07/29/2018 22:28	1	h231885a.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		07/29/2018 22:50	1		Rtxi-5Sil MS 0.25(mm)
MB 460-540563/1-A		07/29/2018 23:15	1	h231887.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-540563/2-A		07/29/2018 23:36	1	h231888.D	Rtxi-5Sil MS 0.25(mm)
480-139579-10 MS		07/29/2018 23:57	1	h231889.D	Rtxi-5Sil MS 0.25(mm)
480-139579-10 MSD		07/30/2018 00:18	1	h231890.D	Rtxi-5Sil MS 0.25(mm)
480-139579-10		07/30/2018 00:40	1	h231891.D	Rtxi-5Sil MS 0.25(mm)
ZZZZZ		07/30/2018 01:01	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		07/30/2018 01:22	1		Rtxi-5Sil MS 0.25(mm)
ZZZZZ		07/30/2018 01:43	1		Rtxi-5Sil MS 0.25(mm)
480-139579-1		07/30/2018 02:04	1	h231895.D	Rtxi-5Sil MS 0.25(mm)
480-139579-2		07/30/2018 02:25	1	h231896.D	Rtxi-5Sil MS 0.25(mm)
480-139579-4		07/30/2018 02:47	1	h231897.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Batch Number: 540563 Batch Start Date: 07/29/18 09:28 Batch Analyst: Hamzi, Karima M

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SIM SP 00015
MB 460-540563/1		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-540563/2		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
480-139579-C-10 MS	MW-161-3-20180725	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	20 uL
480-139579-C-10 MSD	MW-161-3-20180725	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	20 uL
480-139579-C-10	MW-161-3-20180725	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
480-139579-C-1	MW-161-4-20180724	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
480-139579-C-2	MW-1161-4-20180724	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	
480-139579-C-4	FB-20180724	3510C, 8270C	T	250 mL	2 mL	5 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00014					
MB 460-540563/1		3510C, 8270C		20 uL					
LCS 460-540563/2		3510C, 8270C		20 uL					
480-139579-C-10 MS	MW-161-3-20180725	3510C, 8270C	T	20 uL					
480-139579-C-10 MSD	MW-161-3-20180725	3510C, 8270C	T	20 uL					
480-139579-C-10	MW-161-3-20180725	3510C, 8270C	T	20 uL					
480-139579-C-1	MW-161-4-20180724	3510C, 8270C	T	20 uL					
480-139579-C-2	MW-1161-4-20180724	3510C, 8270C	T	20 uL					
480-139579-C-4	FB-20180724	3510C, 8270C	T	20 uL					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 480-139579-1

SDG No.:

Batch Number: 540563 Batch Start Date: 07/29/18 09:28 Batch Analyst: Hamzi, Karima M

Batch Method: 3510C Batch End Date:

Batch Notes	
Acid Used for pH Adjustment ID	186983
Base Used to Adjust pH ID	OP2626
Batch Comment	3510C_LVI 8270D_SIM_1,4 DX
Analyst ID - Concentration	am
Analyst ID - Extraction	kh
Method/Fraction	BNA WATER Sim Only
Prep Solvent ID	MeCL2 203918
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	kh
Analyst ID - Spike Witness Analyst	am
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-139579-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PD1-23-SO-18-20180725	480-139579-5
PDI-123-SO-18-20180725	480-139579-6
PDI-24-SO-18-20180725	480-139579-7
PDI-25-SO-14-20180725	480-139579-8

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-139579-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-139579-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 08/01/2018 10:34 End Date: 08/01/2018 10:34

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
480-139579-5	1	T	10:34	X	X																		
480-139579-6	1	T	10:34	X	X																		
480-139579-7	1	T	10:34	X	X																		
480-139579-8	1	T	10:34	X	X																		
480-139579-8 MS	1	T	10:34	X	X																		
480-139579-8 MSD	1	T	10:34	X	X																		
ZZZZZZ			10:34																				
ZZZZZZ			10:34																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-139579-1

SDG No.:

Batch Number: 427505 Batch Start Date: 08/01/18 10:34 Batch Analyst: Schultz, Lucas M

Batch Method: Moisture Batch End Date: 08/01/18 23:35

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-139579-A-5	PD1-23-SO-18-20180725	Moisture	T	4.27 g	14.99 g	12.44 g			
480-139579-A-6	PDI-123-SO-18-20180725	Moisture	T	4.30 g	14.51 g	12.14 g			
480-139579-A-7	PDI-24-SO-18-20180725	Moisture	T	4.34 g	14.70 g	12.13 g			
480-139579-A-8	PDI-25-SO-14-20180725	Moisture	T	4.27 g	14.65 g	12.39 g			
480-139579-A-8 MS	PDI-25-SO-14-20180725	Moisture	T	4.27 g	14.65 g	12.39 g			
480-139579-A-8 MSD	PDI-25-SO-14-20180725	Moisture	T	4.27 g	14.65 g	12.39 g			

Batch Notes	
Balance ID	b2026133314
Batch Comment	PP-F-4A-18
Date samples were placed in the oven	08/01/2018
Oven Temp In	103 Degrees C
Time samples were place in the oven	10:50
Date samples were removed from oven	08/01/2018
Oven Temp Out	103 Degrees C
Time Samples were removed from oven	23:35
Temperature - Start - Uncorrected	103 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: LE / AH	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-115855-26792.1
Client Contact: Amy Picunas	Phone: 518-782-4500	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: CDM Smith, Inc.		Analysis Requested		Job #:

Address: 11 British American Blvd Suite 200	Due Date Requested:	Preservation Codes:
City: Latham	TAT Requested (days): STD	A - HCL; B - NaOH; C - Zn Ace; D - Nitric; E - NaHS; F - MeOH; G - Amchl; H - Ascorbic; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - Na Bisulfate; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 12110		
Phone:	PO #: 77861	
Email: picunasae@cdmsmith.com	WO #:	480-139579 COC
Project Name: Former Aluminum Louvre	Project #: 48016917	Other:
Site:	SSOW#:	

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - (MOD) PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260C - VOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	F		
MW-161-4-20180724	7/24/18	1010	G	Water	N	N	X	X	X		7	
MW-1161-4-20180724	7/24/18	1015	G	Water	N	N	X	X	X		7	
TB-20180724	7/24/18	0800	G	Water	N	N			X		3	TRIP BLANK GW
FB-20180724	7/24/18	1145	G	Water	N	N	X	X	X		7	GW Field Blank
PDI-23-SO-18-20180725	7/25/18	0830	G	S Water	N	N				X	4	
PDI-123-SO-18-20180725	7/25/18	0840	G	S Water	N	N				X	4	
PDI-24-SO-18-20180725	7/25/18	0850	G	S Water	N	N				X	4	
PDI-25-SO-14-20180725	7/25/18	0930	G	S Water	N	Y				X	12	MS/MSD
FB-20180725	7/25/18	0900	G	W Solid	N	N			X		3	SO Field Blank.
MW-161-3-20180725	7/25/18	1225	G	W Solid	N	Y	X	X	X		21	MS/MSD
TB-20180725	7/25/18	0800	G	W Solid	N	N			X		3	TRIPBLANK SOIL

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
LIA ESTRADA	7/25/18 13:30	CDM SMITH		7/25/18 11370	TA
Relinquished by:	Date/Time: 7/25/18 15:40	Company TA	Received by:	Date/Time: 7/25/18 1600	Company TA
Relinquished by:	Date/Time: 7/26/18 1720	Company TA	Received by:	Date/Time: 7/26/18 950	Company TAO

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.0 3.7 3.9 #1

Ver: 08/04/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

480-139579 Field Sheet

Job: _____

Tracking # 4276 0717 3772 SO / PO / FO / 2-Day / Ground / UPS / Courier / GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes: _____

Therm. ID: **AK-2 / AK-3 / AK-5 / AK-6 / HACCP / Other** _____

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: SEAL 526059

Sample Custody Seal: —

Cooler ID: _____

Temp: Observed 5.7

From: Temp Blank ☐ Sample ☒

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☒ AP
Sample temp OK?	☒	☐	☐
Sample out of temp?	☐	☒	☐

Initials: AP Date: 07/20/18

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W208 box

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

08/10/2018

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-43639.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139579-1
Address: 777 New Durham Road,	Due Date Requested: 8/7/2018			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270_SIM_14DX/3510C_LVI 1,4-Dioxane	8260C/5030C VOC	8260C/5035A_FM TCL list OLM04.2	8260C/5035A_FP TCL list OLM04.2	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-161-4-20180724 (480-139579-1)	7/24/18	10:10 Eastern		Water			X	X				5	
MW-1161-4-20180724 (480-139579-2)	7/24/18	10:15 Eastern		Water			X	X				5	
TB-20180724 (480-139579-3)	7/24/18	08:00 Eastern		Water				X				2	
FB-20180724 (480-139579-4)	7/24/18	11:45 Eastern		Water			X	X				5	
PD1-23-SO-18-20180725 (480-139579-5)	7/25/18	08:30 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-123-SO-18-20180725 (480-139579-6)	7/25/18	08:40 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-24-SO-18-20180725 (480-139579-7)	7/25/18	08:50 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-25-SO-14-20180725 (480-139579-8)	7/25/18	09:30 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-25-SO-14-20180725 (480-139579-8MS)	7/25/18	09:30 Eastern	MS	Solid					X	X	X	4	, VOA ONLY DW

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	7/27/18 1610	TAL	RJL via FEDEX	7/28/18 1120	TAL-BUF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 526055	Cooler Temperature(s) °C and Other Remarks: IX #11 4.0

Ver: 09/20/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

08/10/2018

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-43639.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139579-1
Address: 777 New Durham Road, ,	Due Date Requested: 8/7/2018			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270_SIM_14DX/3510C_LVI 1,4-Dioxane	8260C/5030C VOC	8260C/5035A_FM TCL list OLM04.2	8260C/5035A_FP TCL list OLM04.2	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PDI-25-SO-14-20180725 (480-139579-8MSD)	7/25/18	09:30 Eastern	MSD	Solid					X	X	X	4	, VOA ONLY DW
FB-20180725 (480-139579-9)	7/25/18	09:00 Eastern		Water				X				3	
MW-161-3-20180725 (480-139579-10)	7/25/18	12:25 Eastern		Water			X	X				5	
MW-161-3-20180725 (480-139579-10MS)	7/25/18	12:25 Eastern	MS	Water			X	X				5	
MW-161-3-20180725 (480-139579-10MSD)	7/25/18	12:25 Eastern	MSD	Water			X	X				5	
TB-20180725 (480-139579-11)	7/25/18	08:00 Eastern		Water				X				3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 7/27/18 1610	Company:	Received by: RJF VIA FEDEX	Date/Time: 7/28/18 1120	Company: TAL BUF	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Page 557 of 559

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-1

Login Number: 139579
List Number: 1
Creator: Kolb, Chris M

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM SMITH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-1

Login Number: 139579
List Number: 2
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison
List Creation: 07/28/18 07:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	CS#526055
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0°C IR#11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-139579-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Joseph V. Giacomazza

Authorized for release by:
8/10/2018 12:23:57 PM
Joe Giacomazza, Project Management Assistant II
joe.giacomazza@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 21
QC Sample Results 22
QC Association Summary 35
Lab Chronicle 37
Certification Summary 40
Method Summary 41
Sample Summary 42
Chain of Custody 43
Field Data Sheets 46
Receipt Checklists 47

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 480-139579-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-139579-1

Comments
No additional comments.

Receipt
The samples were received on 7/26/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0º C, 3.7º C and 3.9º C.

Receipt Exceptions
The following samples were preserved via freezing on 07/26/18 at 1800: PD1-23-SO-18-20180725 (480-139579-5), PDI-123-SO-18-20180725 (480-139579-6), PDI-24-SO-18-20180725 (480-139579-7), PDI-25-SO-14-20180725 (480-139579-8), PDI-25-SO-14-20180725 (480-139579-8[MS]) and PDI-25-SO-14-20180725 (480-139579-8[MSD]) .

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-427843 recovered outside acceptance criteria, low biased, for 1,1,2-Trichloro-1,2,2-trifluoroethane, Chloromethane and Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analytes were detected. Since the associated samples were non-detect for these analytes, the data have been reported. The following samples are impacted: PD1-23-SO-18-20180725 (480-139579-5), PDI-123-SO-18-20180725 (480-139579-6) and PDI-24-SO-18-20180725 (480-139579-7).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-541225 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-541225 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 460-541118 recovered above the upper control limit for Methyl acetate. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-541118 recovered outside control limits for Methyl acetate. The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-4-20180724 — Lab Sample ID: 480-139579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.46	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.4		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	51		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.61	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: MW-1161-4-20180724 — Lab Sample ID: 480-139579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.48	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.5		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	3.5		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	52		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.71	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: TB-20180724 — Lab Sample ID: 480-139579-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		5.0	5.0	ug/L	1		8260C	Total/NA
Toluene	0.48	J	1.0	0.38	ug/L	1		8260C	Total/NA

Client Sample ID: FB-20180724 — Lab Sample ID: 480-139579-4

No Detections.

Client Sample ID: PD1-23-SO-18-20180725 — Lab Sample ID: 480-139579-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	18	J	23	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	3.2	J	4.5	0.99	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-123-SO-18-20180725 — Lab Sample ID: 480-139579-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12	J	25	4.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	4.3	J	5.0	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-24-SO-18-20180725 — Lab Sample ID: 480-139579-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17	J	24	4.1	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.91	J	4.9	0.65	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	20		4.9	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-25-SO-14-20180725 — Lab Sample ID: 480-139579-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J F1	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.5	J	4.6	1.0	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: FB-20180725 — Lab Sample ID: 480-139579-9

No Detections.

Client Sample ID: MW-161-3-20180725 — Lab Sample ID: 480-139579-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.59	J	1.0	0.24	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	2.0		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	4.0		1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	54	F1	1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	0.76	J	1.0	0.14	ug/L	1		8260C	Total/NA

Client Sample ID: TB-20180725 — Lab Sample ID: 480-139579-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
Toluene	0.53	J	1.0	0.38	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-4-20180724
Date Collected: 07/24/18 10:10
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.46**	**J**	1.0	0.24	ug/L			08/01/18 11:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 11:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 11:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 11:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 11:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 11:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 11:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 11:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 11:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 11:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 11:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 11:59	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 11:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 11:59	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 11:59	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 11:59	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 11:59	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 11:59	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 11:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 11:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 11:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 11:59	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 11:59	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 11:59	1
cis-1,2-Dichloroethene	**1.3**		1.0	0.22	ug/L			08/01/18 11:59	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 11:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 11:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 11:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 11:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 11:59	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 11:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 11:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 11:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 11:59	1
Tetrachloroethene	**3.4**		1.0	0.25	ug/L			08/01/18 11:59	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 11:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 11:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 11:59	1
Trichloroethene	**51**		1.0	0.31	ug/L			08/01/18 11:59	1
Trichlorofluoromethane	**0.61**	**J**	1.0	0.14	ug/L			08/01/18 11:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 11:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 11:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 11:59	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 11:59	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-4-20180724

Lab Sample ID: 480-139579-1

Date Collected: 07/24/18 10:10

Matrix: Water

Date Received: 07/26/18 09:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 11:59*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 11:59*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/01/18 11:59*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 11:59*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:04	1

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.48**	**J**	1.0	0.24	ug/L			08/01/18 01:30	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:30	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:30	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:30	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:30	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:30	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:30	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:30	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:30	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:30	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:30	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:30	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:30	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 01:30	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 01:30	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:30	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:30	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:30	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:30	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:30	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:30	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:30	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:30	1
cis-1,2-Dichloroethene	**1.5**		1.0	0.22	ug/L			08/01/18 01:30	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:30	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:30	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:30	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:30	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:30	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 01:30	1

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:30	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:30	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:30	1
Tetrachloroethene	**3.5**		1.0	0.25	ug/L			08/01/18 01:30	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 01:30	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:30	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:30	1
Trichloroethene	**52**		1.0	0.31	ug/L			08/01/18 01:30	1
Trichlorofluoromethane	**0.71**	**J**	1.0	0.14	ug/L			08/01/18 01:30	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:30	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:30	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:30	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 01:30*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*08/01/18 01:30*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*08/01/18 01:30*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 01:30*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:25	1

Client Sample ID: TB-20180724

Lab Sample ID: 480-139579-3

Date Collected: 07/24/18 08:00

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/31/18 23:03	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/31/18 23:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/31/18 23:03	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/31/18 23:03	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/31/18 23:03	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/31/18 23:03	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/31/18 23:03	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/31/18 23:03	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/31/18 23:03	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/31/18 23:03	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/31/18 23:03	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/31/18 23:03	1
2-Hexanone	ND		5.0	2.9	ug/L			07/31/18 23:03	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/31/18 23:03	1
Acetone	**13**		5.0	5.0	ug/L			07/31/18 23:03	1
Benzene	ND		1.0	0.43	ug/L			07/31/18 23:03	1
Bromoform	ND		1.0	0.54	ug/L			07/31/18 23:03	1
Bromomethane	ND		1.0	1.0	ug/L			07/31/18 23:03	1

Client Sample ID: TB-20180724

Lab Sample ID: 480-139579-3

Date Collected: 07/24/18 08:00

Matrix: Water

Date Received: 07/26/18 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/31/18 23:03	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/31/18 23:03	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/31/18 23:03	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/31/18 23:03	1
Chloroethane	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Chloroform	ND		1.0	0.33	ug/L			07/31/18 23:03	1
Chloromethane	ND		1.0	0.14	ug/L			07/31/18 23:03	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/31/18 23:03	1
Cyclohexane	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/31/18 23:03	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/31/18 23:03	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/31/18 23:03	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/31/18 23:03	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/31/18 23:03	1
Methyl acetate	ND	*	5.0	0.31	ug/L			07/31/18 23:03	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/31/18 23:03	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/31/18 23:03	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/31/18 23:03	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/31/18 23:03	1
Toluene	**0.48**	**J**	1.0	0.38	ug/L			07/31/18 23:03	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/31/18 23:03	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/31/18 23:03	1
Trichloroethene	ND		1.0	0.31	ug/L			07/31/18 23:03	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/31/18 23:03	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/18 23:03	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/31/18 23:03	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/31/18 23:03	1
Styrene	ND		1.0	0.42	ug/L			07/31/18 23:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/31/18 23:03*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/31/18 23:03*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*07/31/18 23:03*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*07/31/18 23:03*	*1*

Client Sample ID: FB-20180724

Lab Sample ID: 480-139579-4

Date Collected: 07/24/18 11:45

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 00:20	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 00:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 00:20	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:20	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 00:20	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 00:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 00:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 00:20	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 00:20	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: FB-20180724
Date Collected: 07/24/18 11:45
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:20	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 00:20	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 00:20	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 00:20	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 00:20	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 00:20	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 00:20	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 00:20	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 00:20	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 00:20	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 00:20	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 00:20	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 00:20	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 00:20	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 00:20	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 00:20	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 00:20	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 00:20	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 00:20	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 00:20	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 00:20	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 00:20	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 00:20	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 00:20	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 00:20	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 00:20	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 00:20	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 00:20	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 00:20	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 00:20	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 00:20	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 00:20	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 00:20	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 00:20	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 00:20	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 00:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*		*08/01/18 00:20*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 00:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 00:20*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*08/01/18 00:20*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 02:47	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: PD1-23-SO-18-20180725
Date Collected: 07/25/18 08:30
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-5
Matrix: Solid
Percent Solids: 76.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1,2-Trichloroethane	ND		4.5	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichloroethane	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dichloropropane	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Acetone	18	J	23	3.8	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Benzene	ND		4.5	0.22	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromoform	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromomethane	ND		4.5	0.41	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Carbon disulfide	ND		4.5	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Carbon tetrachloride	ND		4.5	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chlorobenzene	ND		4.5	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Dibromochloromethane	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
cis-1,2-Dichloroethene	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
1,2-Dibromoethane	ND		4.5	0.58	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methyl acetate	ND		23	2.7	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methylcyclohexane	ND		4.5	0.69	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Tetrachloroethene	ND		4.5	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Toluene	ND		4.5	0.34	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
trans-1,2-Dichloroethene	ND		4.5	0.47	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Trichloroethene	3.2	J	4.5	0.99	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Trichlorofluoromethane	ND		4.5	0.43	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
cis-1,3-Dichloropropene	ND		4.5	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1
Styrene	ND		4.5	0.23	ug/Kg	☼	07/26/18 18:00	08/03/18 01:39	1

Client Sample ID: PD1-23-SO-18-20180725

Lab Sample ID: 480-139579-5

Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/03/18 01:39*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*07/26/18 18:00*	*08/03/18 01:39*	*1*

Client Sample ID: PDI-123-SO-18-20180725

Lab Sample ID: 480-139579-6

Date Collected: 07/25/18 08:40
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.82	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,1-Dichloroethene	ND		5.0	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2,4-Trichlorobenzene	ND		5.0	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Acetone	**12**	**J**	25	4.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Benzene	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromoform	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromomethane	ND		5.0	0.45	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Carbon disulfide	ND		5.0	2.5	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Carbon tetrachloride	ND		5.0	0.49	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chlorobenzene	ND		5.0	0.66	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloroethane	ND		5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloroform	ND		5.0	0.31	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Chloromethane	ND		5.0	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Cyclohexane	ND		5.0	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Dichlorodifluoromethane	ND		5.0	0.42	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Ethylbenzene	ND		5.0	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
1,2-Dibromoethane	ND		5.0	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Isopropylbenzene	ND		5.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methyl acetate	ND		25	3.0	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Methylene Chloride	ND		5.0	2.3	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1

Client Sample ID: PDI-123-SO-18-20180725
Date Collected: 07/25/18 08:40
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-6
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		5.0	0.38	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Trichloroethene	**4.3**	**J**	5.0	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Trichlorofluoromethane	ND		5.0	0.48	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Vinyl chloride	ND		5.0	0.61	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Xylenes, Total	ND		10	0.84	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1
Styrene	ND		5.0	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*64 - 126*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
Toluene-d8 (Surr)	*100*		*71 - 125*	*07/26/18 18:00*	*08/03/18 02:05*	*1*
Dibromofluoromethane (Surr)	*92*		*60 - 140*	*07/26/18 18:00*	*08/03/18 02:05*	*1*

Client Sample ID: PDI-24-SO-18-20180725
Date Collected: 07/25/18 08:50
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-7
Matrix: Solid
Percent Solids: 75.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2,2-Tetrachloroethane	ND		4.9	0.79	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dibromo-3-Chloropropane	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichloroethane	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Acetone	**17**	**J**	24	4.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Benzene	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chlorobenzene	ND		4.9	0.64	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Dibromochloromethane	ND		4.9	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Chloromethane	ND		4.9	0.29	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
cis-1,2-Dichloroethene	ND		4.9	0.62	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1

Client Sample ID: PDI-24-SO-18-20180725

Lab Sample ID: 480-139579-7

Date Collected: 07/25/18 08:50
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.9	0.68	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Isopropylbenzene	ND		4.9	0.73	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Methylene Chloride	ND		4.9	2.2	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Tetrachloroethene	**0.91**	**J**	4.9	0.65	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Toluene	ND		4.9	0.37	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Trichloroethene	**20**		4.9	1.1	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Xylenes, Total	ND		9.7	0.82	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1
Styrene	ND		4.9	0.24	ug/Kg	☼	07/26/18 18:00	08/03/18 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*64 - 126*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/03/18 02:31*	*1*
Dibromofluoromethane (Surr)	*93*		*60 - 140*	*07/26/18 18:00*	*08/03/18 02:31*	*1*

Client Sample ID: PDI-25-SO-14-20180725

Lab Sample ID: 480-139579-8

Date Collected: 07/25/18 09:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 78.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	4.6	0.33	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2,2-Tetrachloroethane	ND	F1	4.6	0.75	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichloroethane	ND	F1	4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,4-Dichlorobenzene	ND		4.6	0.65	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
2-Butanone (MEK)	ND	F1	23	1.7	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Acetone	**13**	**J F1**	23	3.9	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1

Client Sample ID: PDI-25-SO-14-20180725
Date Collected: 07/25/18 09:30
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-8
Matrix: Solid
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Carbon tetrachloride	ND	F1	4.6	0.45	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloroform	ND	F1	4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Chloromethane	ND	F1	4.6	0.28	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Cyclohexane	ND		4.6	0.65	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Dichlorodifluoromethane	ND	F1	4.6	0.38	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
1,2-Dibromoethane	ND	F1	4.6	0.59	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Isopropylbenzene	ND		4.6	0.70	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Toluene	ND		4.6	0.35	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
trans-1,2-Dichloroethene	ND		4.6	0.48	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Trichloroethene	**2.5**	**J**	4.6	1.0	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1
Styrene	ND		4.6	0.23	ug/Kg	☼	07/26/18 18:00	08/02/18 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
4-Bromofluorobenzene (Surr)	*95*		*72 - 126*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
Toluene-d8 (Surr)	*99*		*71 - 125*	*07/26/18 18:00*	*08/02/18 19:31*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*07/26/18 18:00*	*08/02/18 19:31*	*1*

Client Sample ID: FB-20180725
Date Collected: 07/25/18 09:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-9
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 00:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 00:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 00:44	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 00:44	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 00:44	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: FB-20180725
Date Collected: 07/25/18 09:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 00:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 00:44	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 00:44	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 00:44	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 00:44	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 00:44	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 00:44	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 00:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 00:44	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 00:44	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 00:44	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 00:44	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 00:44	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 00:44	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 00:44	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 00:44	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 00:44	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 00:44	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 00:44	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 00:44	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 00:44	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 00:44	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 00:44	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 00:44	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 00:44	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 00:44	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 00:44	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 00:44	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 00:44	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 00:44	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 00:44	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 00:44	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 00:44	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 00:44	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 00:44	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 00:44	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 00:44	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 00:44	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 00:44*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*08/01/18 00:44*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*08/01/18 00:44*	*1*
Dibromofluoromethane (Surr)	*97*		*72 - 131*		*08/01/18 00:44*	*1*

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-3-20180725
Date Collected: 07/25/18 12:25
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-10
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.59**	**J**	1.0	0.24	ug/L			08/01/18 01:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:53	1
1,1,2-Trichloroethane	ND	F1	1.0	0.43	ug/L			08/01/18 01:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:53	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:53	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 01:53	1
Benzene	ND	F1	1.0	0.43	ug/L			08/01/18 01:53	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:53	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:53	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:53	1
cis-1,2-Dichloroethene	**2.0**		1.0	0.22	ug/L			08/01/18 01:53	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:53	1
Methyl acetate	ND	* F1	5.0	0.31	ug/L			08/01/18 01:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:53	1
Tetrachloroethene	**4.0**		1.0	0.25	ug/L			08/01/18 01:53	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 01:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:53	1
Trichloroethene	**54**	**F1**	1.0	0.31	ug/L			08/01/18 01:53	1
Trichlorofluoromethane	**0.76**	**J**	1.0	0.14	ug/L			08/01/18 01:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:53	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:53	1

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10

Date Collected: 07/25/18 12:25

Matrix: Water

Date Received: 07/26/18 09:50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*08/01/18 01:53*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*08/01/18 01:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 01:53*	*1*
Dibromofluoromethane (Surr)	*99*		*72 - 131*		*08/01/18 01:53*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/30/18 00:40	1

Client Sample ID: TB-20180725

Lab Sample ID: 480-139579-11

Date Collected: 07/25/18 08:00

Matrix: Water

Date Received: 07/26/18 09:50

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 01:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 01:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 01:07	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 01:07	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 01:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 01:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 01:07	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 01:07	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 01:07	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 01:07	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 01:07	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 01:07	1
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 01:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 01:07	1
Acetone	**12**		5.0	5.0	ug/L			08/01/18 01:07	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 01:07	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 01:07	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 01:07	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 01:07	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 01:07	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 01:07	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 01:07	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 01:07	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 01:07	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 01:07	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 01:07	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 01:07	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 01:07	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 01:07	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 01:07	1
Methyl acetate	ND	*	5.0	0.31	ug/L			08/01/18 01:07	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: TB-20180725
Date Collected: 07/25/18 08:00
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 01:07	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 01:07	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 01:07	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 01:07	1
Toluene	**0.53**	**J**	1.0	0.38	ug/L			08/01/18 01:07	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 01:07	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 01:07	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 01:07	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 01:07	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 01:07	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 01:07	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 01:07	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 01:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*08/01/18 01:07*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*08/01/18 01:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*08/01/18 01:07*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*08/01/18 01:07*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-139579-5	PD1-23-SO-18-20180725	101	97	99	93
480-139579-6	PDI-123-SO-18-20180725	100	96	100	92
480-139579-7	PDI-24-SO-18-20180725	103	96	99	93
480-139579-8	PDI-25-SO-14-20180725	101	95	99	94
480-139579-8 MS	PDI-25-SO-14-20180725	89	96	101	94
480-139579-8 MSD	PDI-25-SO-14-20180725	90	97	101	95
LCS 480-427697/23-A	Lab Control Sample	95	96	102	94
MB 480-427697/2-A	Method Blank	98	93	101	94

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
480-139579-1	MW-161-4-20180724	110	92	98	99
480-139579-2	MW-1161-4-20180724	110	94	101	99
480-139579-3	TB-20180724	110	89	97	100
480-139579-4	FB-20180724	108	92	99	97
480-139579-9	FB-20180725	110	92	98	97
480-139579-10	MW-161-3-20180725	112	91	99	99
480-139579-10 MS	MW-161-3-20180725	102	98	100	96
480-139579-10 MSD	MW-161-3-20180725	103	93	97	96
480-139579-11	TB-20180725	110	94	97	100
LCS 460-541118/4	Lab Control Sample	102	95	97	92
LCS 460-541225/4	Lab Control Sample	102	93	97	93
MB 460-541118/8	Method Blank	110	93	98	98
MB 460-541225/8	Method Blank	112	89	99	100

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-427697/2-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 427697

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
2-Hexanone	ND		25	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Acetone	ND		25	4.2	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Benzene	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromoform	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromomethane	ND		5.0	0.45	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloroethane	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloroform	ND		5.0	0.31	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Chloromethane	ND		5.0	0.30	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Cyclohexane	ND		5.0	0.70	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methyl acetate	ND		25	3.0	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Toluene	ND		5.0	0.38	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Trichloroethene	ND		5.0	1.1	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Xylenes, Total	ND		10	0.84	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		08/02/18 08:35	08/02/18 12:59	1
Styrene	ND		5.0	0.25	ug/Kg		08/02/18 08:35	08/02/18 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*64 - 126*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
4-Bromofluorobenzene (Surr)	*93*		*72 - 126*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*08/02/18 08:35*	*08/02/18 12:59*	*1*
Dibromofluoromethane (Surr)	*94*		*60 - 140*	*08/02/18 08:35*	*08/02/18 12:59*	*1*

Lab Sample ID: LCS 480-427697/23-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.3		ug/Kg		95	77 - 121
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/Kg		114	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	48.5		ug/Kg		97	60 - 140
1,1,2-Trichloroethane	50.0	55.7		ug/Kg		111	78 - 122
1,1-Dichloroethane	50.0	55.2		ug/Kg		110	73 - 126
1,1-Dichloroethene	50.0	51.8		ug/Kg		104	59 - 125
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	45.7		ug/Kg		91	63 - 124
1,2-Dichlorobenzene	50.0	53.1		ug/Kg		106	75 - 120
1,2-Dichloroethane	50.0	48.2		ug/Kg		96	77 - 122
1,2-Dichloropropane	50.0	57.4		ug/Kg		115	75 - 124
1,3-Dichlorobenzene	50.0	55.3		ug/Kg		111	74 - 120
1,4-Dichlorobenzene	50.0	54.4		ug/Kg		109	73 - 120
2-Butanone (MEK)	250	278		ug/Kg		111	70 - 134
2-Hexanone	250	283		ug/Kg		113	59 - 130
4-Methyl-2-pentanone (MIBK)	250	282		ug/Kg		113	65 - 133
Acetone	250	231		ug/Kg		92	61 - 137
Benzene	50.0	55.6		ug/Kg		111	79 - 127
Bromoform	50.0	55.8		ug/Kg		112	68 - 126
Bromomethane	50.0	49.1		ug/Kg		98	37 - 149
Carbon disulfide	50.0	48.8		ug/Kg		98	64 - 131
Carbon tetrachloride	50.0	48.8		ug/Kg		98	75 - 135
Chlorobenzene	50.0	55.5		ug/Kg		111	76 - 124
Dibromochloromethane	50.0	56.0		ug/Kg		112	76 - 125
Chloroethane	50.0	51.6		ug/Kg		103	69 - 135
Chloroform	50.0	51.0		ug/Kg		102	80 - 120
Chloromethane	50.0	48.1		ug/Kg		96	63 - 127
cis-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	81 - 120
Cyclohexane	50.0	54.2		ug/Kg		108	65 - 120
Bromodichloromethane	50.0	52.8		ug/Kg		106	80 - 122
Dichlorodifluoromethane	50.0	46.3		ug/Kg		93	57 - 142
Ethylbenzene	50.0	56.3		ug/Kg		113	80 - 120
1,2-Dibromoethane	50.0	54.0		ug/Kg		108	78 - 120
Isopropylbenzene	50.0	56.6		ug/Kg		113	72 - 120
Methyl acetate	100	125		ug/Kg		125	55 - 136
Methyl tert-butyl ether	50.0	45.1		ug/Kg		90	63 - 125
Methylcyclohexane	50.0	52.4		ug/Kg		105	60 - 140
Methylene Chloride	50.0	49.7		ug/Kg		99	61 - 127
Tetrachloroethene	50.0	54.7		ug/Kg		109	74 - 122
Toluene	50.0	56.1		ug/Kg		112	74 - 128
trans-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	55.1		ug/Kg		110	73 - 123
Trichloroethene	50.0	53.2		ug/Kg		106	77 - 129

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

Lab Sample ID: LCS 480-427697/23-A
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 427697

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			50.0	49.4		ug/Kg		99	65 - 146		
Vinyl chloride			50.0	51.2		ug/Kg		102	61 - 133		
cis-1,3-Dichloropropene			50.0	54.5		ug/Kg		109	80 - 120		
Styrene			50.0	55.4		ug/Kg		111	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

Lab Sample ID: 480-139579-8 MS
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND	F1	45.3	31.3	F1	ug/Kg	☼	69	77 - 121		
1,1,2,2-Tetrachloroethane	ND	F1	45.3	32.7	F1	ug/Kg	☼	72	80 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		45.3	30.6		ug/Kg	☼	68	60 - 140		
1,1,2-Trichloroethane	ND		45.3	36.2		ug/Kg	☼	80	78 - 122		
1,1-Dichloroethane	ND		45.3	37.5		ug/Kg	☼	83	73 - 126		
1,1-Dichloroethene	ND		45.3	32.4		ug/Kg	☼	72	59 - 125		
1,2,4-Trichlorobenzene	ND		45.3	30.5		ug/Kg	☼	67	64 - 120		
1,2-Dibromo-3-Chloropropane	ND	F1	45.3	22.2	F1	ug/Kg	☼	49	63 - 124		
1,2-Dichlorobenzene	ND		45.3	36.1		ug/Kg	☼	80	75 - 120		
1,2-Dichloroethane	ND	F1	45.3	32.4	F1	ug/Kg	☼	72	77 - 122		
1,2-Dichloropropane	ND		45.3	40.4		ug/Kg	☼	89	75 - 124		
1,3-Dichlorobenzene	ND		45.3	36.9		ug/Kg	☼	82	74 - 120		
1,4-Dichlorobenzene	ND		45.3	36.1		ug/Kg	☼	80	73 - 120		
2-Butanone (MEK)	ND	F1	226	129	F1	ug/Kg	☼	57	70 - 134		
2-Hexanone	ND		226	138		ug/Kg	☼	61	59 - 130		
4-Methyl-2-pentanone (MIBK)	ND		226	150		ug/Kg	☼	66	65 - 133		
Acetone	13	J F1	226	108	F1	ug/Kg	☼	42	61 - 137		
Benzene	ND		45.3	38.5		ug/Kg	☼	85	79 - 127		
Bromoform	ND		45.3	31.9		ug/Kg	☼	70	68 - 126		
Bromomethane	ND		45.3	34.6		ug/Kg	☼	77	37 - 149		
Carbon disulfide	ND		45.3	29.5		ug/Kg	☼	65	64 - 131		
Carbon tetrachloride	ND	F1	45.3	32.0	F1	ug/Kg	☼	71	75 - 135		
Chlorobenzene	ND		45.3	38.3		ug/Kg	☼	85	76 - 124		
Dibromochloromethane	ND		45.3	36.5		ug/Kg	☼	81	76 - 125		
Chloroethane	ND		45.3	36.5		ug/Kg	☼	81	69 - 135		
Chloroform	ND	F1	45.3	35.3	F1	ug/Kg	☼	78	80 - 120		
Chloromethane	ND	F1	45.3	28.7		ug/Kg	☼	63	63 - 127		
cis-1,2-Dichloroethene	ND		45.3	36.4		ug/Kg	☼	81	80 - 120		
Cyclohexane	ND		45.3	34.9		ug/Kg	☼	77	65 - 120		
Bromodichloromethane	ND		45.3	36.4		ug/Kg	☼	80	80 - 122		
Dichlorodifluoromethane	ND	F1	45.3	24.8	F1	ug/Kg	☼	55	57 - 142		

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

Lab Sample ID: 480-139579-8 MS
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		45.3	38.6		ug/Kg	☼	85	80 - 120
1,2-Dibromoethane	ND	F1	45.3	33.4	F1	ug/Kg	☼	74	78 - 120
Isopropylbenzene	ND		45.3	39.3		ug/Kg	☼	87	72 - 120
Methyl acetate	ND		90.5	66.1		ug/Kg	☼	73	55 - 136
Methyl tert-butyl ether	ND		45.3	29.7		ug/Kg	☼	66	63 - 125
Methylcyclohexane	ND		45.3	35.0		ug/Kg	☼	77	60 - 140
Methylene Chloride	ND		45.3	33.1		ug/Kg	☼	73	61 - 127
Tetrachloroethene	ND		45.3	36.6		ug/Kg	☼	81	74 - 122
Toluene	ND		45.3	38.6		ug/Kg	☼	85	74 - 128
trans-1,2-Dichloroethene	ND		45.3	35.5		ug/Kg	☼	79	78 - 126
trans-1,3-Dichloropropene	ND		45.3	35.1		ug/Kg	☼	78	73 - 123
Trichloroethene	2.5	J	45.3	38.7		ug/Kg	☼	80	77 - 129
Trichlorofluoromethane	ND		45.3	33.1		ug/Kg	☼	73	65 - 146
Vinyl chloride	ND		45.3	29.9		ug/Kg	☼	66	61 - 133
cis-1,3-Dichloropropene	ND		45.3	37.0		ug/Kg	☼	82	80 - 120
Styrene	ND		45.3	37.7		ug/Kg	☼	83	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*64 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*94*		*60 - 140*

Lab Sample ID: 480-139579-8 MSD
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	43.9	30.4	F1	ug/Kg	☼	69	77 - 121	3	30
1,1,2,2-Tetrachloroethane	ND	F1	43.9	34.3	F1	ug/Kg	☼	78	80 - 120	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		43.9	29.1		ug/Kg	☼	66	60 - 140	5	30
1,1,2-Trichloroethane	ND		43.9	36.5		ug/Kg	☼	83	78 - 122	1	30
1,1-Dichloroethane	ND		43.9	36.3		ug/Kg	☼	83	73 - 126	3	30
1,1-Dichloroethene	ND		43.9	31.2		ug/Kg	☼	71	59 - 125	4	30
1,2,4-Trichlorobenzene	ND		43.9	30.1		ug/Kg	☼	68	64 - 120	1	30
1,2-Dibromo-3-Chloropropane	ND	F1	43.9	24.0	F1	ug/Kg	☼	55	63 - 124	8	30
1,2-Dichlorobenzene	ND		43.9	35.0		ug/Kg	☼	80	75 - 120	3	30
1,2-Dichloroethane	ND	F1	43.9	32.3	F1	ug/Kg	☼	73	77 - 122	0	30
1,2-Dichloropropane	ND		43.9	39.3		ug/Kg	☼	89	75 - 124	3	30
1,3-Dichlorobenzene	ND		43.9	36.0		ug/Kg	☼	82	74 - 120	2	30
1,4-Dichlorobenzene	ND		43.9	35.5		ug/Kg	☼	81	73 - 120	2	30
2-Butanone (MEK)	ND	F1	220	140	F1	ug/Kg	☼	64	70 - 134	9	30
2-Hexanone	ND		220	147		ug/Kg	☼	67	59 - 130	6	30
4-Methyl-2-pentanone (MIBK)	ND		220	158		ug/Kg	☼	72	65 - 133	5	30
Acetone	13	J F1	220	109	F1	ug/Kg	☼	44	61 - 137	1	30
Benzene	ND		43.9	37.0		ug/Kg	☼	84	79 - 127	4	30
Bromoform	ND		43.9	33.3		ug/Kg	☼	76	68 - 126	4	30

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

Lab Sample ID: 480-139579-8 MSD
Matrix: Solid
Analysis Batch: 427705

Client Sample ID: PDI-25-SO-14-20180725
Prep Type: Total/NA
Prep Batch: 427697

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		43.9	31.9		ug/Kg	☼	73	37 - 149	8	30
Carbon disulfide	ND		43.9	28.5		ug/Kg	☼	65	64 - 131	3	30
Carbon tetrachloride	ND	F1	43.9	31.0	F1	ug/Kg	☼	71	75 - 135	3	30
Chlorobenzene	ND		43.9	36.8		ug/Kg	☼	84	76 - 124	4	30
Dibromochloromethane	ND		43.9	35.9		ug/Kg	☼	82	76 - 125	2	30
Chloroethane	ND		43.9	33.9		ug/Kg	☼	77	69 - 135	7	30
Chloroform	ND	F1	43.9	34.4	F1	ug/Kg	☼	78	80 - 120	3	30
Chloromethane	ND	F1	43.9	26.8	F1	ug/Kg	☼	61	63 - 127	7	30
cis-1,2-Dichloroethene	ND		43.9	35.5		ug/Kg	☼	81	80 - 120	3	30
Cyclohexane	ND		43.9	33.7		ug/Kg	☼	77	65 - 120	4	30
Bromodichloromethane	ND		43.9	36.1		ug/Kg	☼	82	80 - 122	1	30
Dichlorodifluoromethane	ND	F1	43.9	23.3	F1	ug/Kg	☼	53	57 - 142	6	30
Ethylbenzene	ND		43.9	36.8		ug/Kg	☼	84	80 - 120	5	30
1,2-Dibromoethane	ND	F1	43.9	33.8	F1	ug/Kg	☼	77	78 - 120	1	30
Isopropylbenzene	ND		43.9	37.3		ug/Kg	☼	85	72 - 120	5	30
Methyl acetate	ND		87.9	71.2		ug/Kg	☼	81	55 - 136	7	30
Methyl tert-butyl ether	ND		43.9	30.4		ug/Kg	☼	69	63 - 125	2	30
Methylcyclohexane	ND		43.9	33.3		ug/Kg	☼	76	60 - 140	5	30
Methylene Chloride	ND		43.9	33.3		ug/Kg	☼	76	61 - 127	1	30
Tetrachloroethene	ND		43.9	34.9		ug/Kg	☼	79	74 - 122	5	30
Toluene	ND		43.9	37.1		ug/Kg	☼	84	74 - 128	4	30
trans-1,2-Dichloroethene	ND		43.9	34.3		ug/Kg	☼	78	78 - 126	3	30
trans-1,3-Dichloropropene	ND		43.9	35.3		ug/Kg	☼	80	73 - 123	1	30
Trichloroethene	2.5	J	43.9	37.0		ug/Kg	☼	78	77 - 129	5	30
Trichlorofluoromethane	ND		43.9	30.9		ug/Kg	☼	70	65 - 146	7	30
Vinyl chloride	ND		43.9	28.1		ug/Kg	☼	64	61 - 133	6	30
cis-1,3-Dichloropropene	ND		43.9	36.4		ug/Kg	☼	83	80 - 120	2	30
Styrene	ND		43.9	36.3		ug/Kg	☼	83	80 - 120	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*64 - 126*
4-Bromofluorobenzene (Surr)	*97*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*95*		*60 - 140*

Lab Sample ID: MB 460-541118/8
Matrix: Water
Analysis Batch: 541118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/31/18 22:40	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/31/18 22:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/31/18 22:40	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/31/18 22:40	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/31/18 22:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/31/18 22:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/31/18 22:40	1

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

Lab Sample ID: MB 460-541118/8
Matrix: Water
Analysis Batch: 541118

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/31/18 22:40	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/31/18 22:40	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/31/18 22:40	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/31/18 22:40	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/31/18 22:40	1
2-Hexanone	ND		5.0	2.9	ug/L			07/31/18 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/31/18 22:40	1
Acetone	ND		5.0	5.0	ug/L			07/31/18 22:40	1
Benzene	ND		1.0	0.43	ug/L			07/31/18 22:40	1
Bromoform	ND		1.0	0.54	ug/L			07/31/18 22:40	1
Bromomethane	ND		1.0	1.0	ug/L			07/31/18 22:40	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/31/18 22:40	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/31/18 22:40	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/31/18 22:40	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/31/18 22:40	1
Chloroethane	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Chloroform	ND		1.0	0.33	ug/L			07/31/18 22:40	1
Chloromethane	ND		1.0	0.14	ug/L			07/31/18 22:40	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/31/18 22:40	1
Cyclohexane	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/31/18 22:40	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/31/18 22:40	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/31/18 22:40	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/31/18 22:40	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/31/18 22:40	1
Methyl acetate	ND		5.0	0.31	ug/L			07/31/18 22:40	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/31/18 22:40	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/31/18 22:40	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/31/18 22:40	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/31/18 22:40	1
Toluene	ND		1.0	0.38	ug/L			07/31/18 22:40	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/31/18 22:40	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/31/18 22:40	1
Trichloroethene	ND		1.0	0.31	ug/L			07/31/18 22:40	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/31/18 22:40	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/31/18 22:40	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/31/18 22:40	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/31/18 22:40	1
Styrene	ND		1.0	0.42	ug/L			07/31/18 22:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/31/18 22:40*	*1*
4-Bromofluorobenzene	*93*		*77 - 124*		*07/31/18 22:40*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/31/18 22:40*	*1*
Dibromofluoromethane (Surr)	*98*		*72 - 131*		*07/31/18 22:40*	*1*

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

Lab Sample ID: LCS 460-541118/4
Matrix: Water
Analysis Batch: 541118

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.5		ug/L		98	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	59 - 150
1,1,2-Trichloroethane	20.0	21.7		ug/L		109	78 - 120
1,1-Dichloroethane	20.0	23.4		ug/L		117	77 - 123
1,1-Dichloroethene	20.0	20.2		ug/L		101	74 - 123
1,2,4-Trichlorobenzene	20.0	22.2		ug/L		111	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134
1,2-Dichlorobenzene	20.0	21.3		ug/L		106	80 - 120
1,2-Dichloroethane	20.0	22.1		ug/L		111	76 - 121
1,2-Dichloropropane	20.0	22.7		ug/L		113	77 - 123
1,3-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	84.4		ug/L		84	64 - 120
2-Hexanone	100	102		ug/L		102	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	105		ug/L		105	39 - 150
Benzene	20.0	22.9		ug/L		114	77 - 121
Bromoform	20.0	17.9		ug/L		90	53 - 120
Bromomethane	20.0	16.9		ug/L		84	10 - 150
Carbon disulfide	20.0	20.5		ug/L		103	69 - 133
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 132
Chlorobenzene	20.0	20.5		ug/L		102	80 - 120
Dibromochloromethane	20.0	19.2		ug/L		96	73 - 120
Chloroethane	20.0	20.8		ug/L		104	52 - 150
Chloroform	20.0	21.5		ug/L		108	80 - 120
Chloromethane	20.0	24.6		ug/L		123	56 - 131
cis-1,2-Dichloroethene	20.0	20.9		ug/L		105	80 - 120
Cyclohexane	20.0	20.6		ug/L		103	56 - 150
Bromodichloromethane	20.0	20.2		ug/L		101	76 - 120
Dichlorodifluoromethane	20.0	20.4		ug/L		102	50 - 131
Ethylbenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dibromoethane	20.0	20.6		ug/L		103	80 - 120
Isopropylbenzene	20.0	22.3		ug/L		112	80 - 123
Methyl acetate	40.0	64.1	*	ug/L		160	66 - 144
Methyl tert-butyl ether	20.0	21.2		ug/L		106	79 - 122
Methylcyclohexane	20.0	20.3		ug/L		102	61 - 145
Methylene Chloride	20.0	20.9		ug/L		105	77 - 123
Tetrachloroethene	20.0	20.1		ug/L		100	78 - 122
Toluene	20.0	21.8		ug/L		109	80 - 120
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	79 - 120
trans-1,3-Dichloropropene	20.0	21.3		ug/L		107	76 - 120
Trichloroethene	20.0	19.1		ug/L		95	77 - 120
Trichlorofluoromethane	20.0	19.3		ug/L		97	71 - 143
Vinyl chloride	20.0	21.3		ug/L		107	62 - 138
cis-1,3-Dichloropropene	20.0	22.3		ug/L		111	77 - 120
Styrene	20.0	21.5		ug/L		107	80 - 120

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

Lab Sample ID: LCS 460-541118/4
Matrix: Water
Analysis Batch: 541118

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		74 - 132
4-Bromofluorobenzene	95		77 - 124
Toluene-d8 (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	92		72 - 131

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	0.59	J	20.0	21.1		ug/L		103	75 - 125
1,1,2,2-Tetrachloroethane	ND		20.0	23.5		ug/L		118	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	23.2		ug/L		116	59 - 150
1,1,2-Trichloroethane	ND	F1	20.0	24.4	F1	ug/L		122	78 - 120
1,1-Dichloroethane	ND		20.0	24.6		ug/L		123	77 - 123
1,1-Dichloroethene	ND		20.0	22.5		ug/L		112	74 - 123
1,2,4-Trichlorobenzene	ND		20.0	21.7		ug/L		108	80 - 124
1,2-Dibromo-3-Chloropropane	ND		20.0	23.7		ug/L		118	55 - 134
1,2-Dichlorobenzene	ND		20.0	21.8		ug/L		109	80 - 120
1,2-Dichloroethane	ND		20.0	23.1		ug/L		115	76 - 121
1,2-Dichloropropane	ND		20.0	23.8		ug/L		119	77 - 123
1,3-Dichlorobenzene	ND		20.0	21.3		ug/L		107	80 - 120
1,4-Dichlorobenzene	ND		20.0	21.1		ug/L		106	80 - 120
2-Butanone (MEK)	ND		100	88.2		ug/L		88	64 - 120
2-Hexanone	ND		100	101		ug/L		101	71 - 125
4-Methyl-2-pentanone (MIBK)	ND		100	113		ug/L		113	78 - 124
Acetone	ND		100	117		ug/L		117	39 - 150
Benzene	ND	F1	20.0	25.3	F1	ug/L		127	77 - 121
Bromoform	ND		20.0	20.0		ug/L		100	53 - 120
Bromomethane	ND		20.0	16.8		ug/L		84	10 - 150
Carbon disulfide	ND		20.0	21.8		ug/L		109	69 - 133
Carbon tetrachloride	ND		20.0	20.5		ug/L		103	70 - 132
Chlorobenzene	ND		20.0	22.2		ug/L		111	80 - 120
Dibromochloromethane	ND		20.0	20.6		ug/L		103	73 - 120
Chloroethane	ND		20.0	20.5		ug/L		102	52 - 150
Chloroform	ND		20.0	22.6		ug/L		113	80 - 120
Chloromethane	ND		20.0	24.7		ug/L		124	56 - 131
cis-1,2-Dichloroethene	2.0		20.0	23.1		ug/L		106	80 - 120
Cyclohexane	ND		20.0	23.0		ug/L		115	56 - 150
Bromodichloromethane	ND		20.0	21.2		ug/L		106	76 - 120
Dichlorodifluoromethane	ND		20.0	22.5		ug/L		113	50 - 131
Ethylbenzene	ND		20.0	22.0		ug/L		110	80 - 120
1,2-Dibromoethane	ND		20.0	21.7		ug/L		109	80 - 120
Isopropylbenzene	ND		20.0	23.5		ug/L		118	80 - 123
Methyl acetate	ND	* F1	40.0	62.6	F1	ug/L		156	66 - 144
Methyl tert-butyl ether	ND		20.0	23.0		ug/L		115	79 - 122
Methylcyclohexane	ND		20.0	22.7		ug/L		114	61 - 145

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

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	ND		20.0	22.6		ug/L		113	77 - 123
Tetrachloroethene	4.0		20.0	24.4		ug/L		102	78 - 122
Toluene	ND		20.0	23.2		ug/L		116	80 - 120
trans-1,2-Dichloroethene	ND		20.0	22.4		ug/L		112	79 - 120
trans-1,3-Dichloropropene	ND		20.0	22.9		ug/L		114	76 - 120
Trichloroethene	54	F1	20.0	66.3	F1	ug/L		60	77 - 120
Trichlorofluoromethane	0.76	J	20.0	21.9		ug/L		105	71 - 143
Vinyl chloride	ND		20.0	21.8		ug/L		109	62 - 138
cis-1,3-Dichloropropene	ND		20.0	23.3		ug/L		116	77 - 120
Styrene	ND		20.0	20.5		ug/L		103	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*72 - 131*

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	0.59	J	20.0	18.7		ug/L		91	75 - 125	12	30
1,1,2,2-Tetrachloroethane	ND		20.0	22.9		ug/L		114	74 - 120	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	20.0		ug/L		100	59 - 150	15	30
1,1,2-Trichloroethane	ND	F1	20.0	21.6		ug/L		108	78 - 120	12	30
1,1-Dichloroethane	ND		20.0	22.1		ug/L		110	77 - 123	11	30
1,1-Dichloroethene	ND		20.0	19.6		ug/L		98	74 - 123	14	30
1,2,4-Trichlorobenzene	ND		20.0	21.7		ug/L		109	80 - 124	0	30
1,2-Dibromo-3-Chloropropane	ND		20.0	22.4		ug/L		112	55 - 134	5	30
1,2-Dichlorobenzene	ND		20.0	20.9		ug/L		105	80 - 120	4	30
1,2-Dichloroethane	ND		20.0	20.5		ug/L		103	76 - 121	12	30
1,2-Dichloropropane	ND		20.0	21.8		ug/L		109	77 - 123	9	30
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		103	80 - 120	4	30
1,4-Dichlorobenzene	ND		20.0	20.4		ug/L		102	80 - 120	4	30
2-Butanone (MEK)	ND		100	83.3		ug/L		83	64 - 120	6	30
2-Hexanone	ND		100	90.1		ug/L		90	71 - 125	11	30
4-Methyl-2-pentanone (MIBK)	ND		100	103		ug/L		103	78 - 124	9	30
Acetone	ND		100	106		ug/L		106	39 - 150	9	30
Benzene	ND	F1	20.0	22.1		ug/L		111	77 - 121	13	30
Bromoform	ND		20.0	17.6		ug/L		88	53 - 120	13	30
Bromomethane	ND		20.0	16.3		ug/L		81	10 - 150	3	30
Carbon disulfide	ND		20.0	19.5		ug/L		97	69 - 133	11	30
Carbon tetrachloride	ND		20.0	18.6		ug/L		93	70 - 132	10	30
Chlorobenzene	ND		20.0	19.7		ug/L		98	80 - 120	12	30
Dibromochloromethane	ND		20.0	18.3		ug/L		92	73 - 120	12	30
Chloroethane	ND		20.0	20.7		ug/L		104	52 - 150	1	30

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

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 541118

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	ND		20.0	20.3		ug/L		102	80 - 120	11	30
Chloromethane	ND		20.0	23.8		ug/L		119	56 - 131	4	30
cis-1,2-Dichloroethene	2.0		20.0	20.7		ug/L		94	80 - 120	11	30
Cyclohexane	ND		20.0	20.8		ug/L		104	56 - 150	10	30
Bromodichloromethane	ND		20.0	18.8		ug/L		94	76 - 120	12	30
Dichlorodifluoromethane	ND		20.0	21.8		ug/L		109	50 - 131	3	30
Ethylbenzene	ND		20.0	19.0		ug/L		95	80 - 120	15	30
1,2-Dibromoethane	ND		20.0	19.4		ug/L		97	80 - 120	11	30
Isopropylbenzene	ND		20.0	20.5		ug/L		102	80 - 123	14	30
Methyl acetate	ND	* F1	40.0	56.1		ug/L		140	66 - 144	11	30
Methyl tert-butyl ether	ND		20.0	20.6		ug/L		103	79 - 122	11	30
Methylcyclohexane	ND		20.0	20.4		ug/L		102	61 - 145	11	30
Methylene Chloride	ND		20.0	20.3		ug/L		102	77 - 123	11	30
Tetrachloroethene	4.0		20.0	21.8		ug/L		89	78 - 122	11	30
Toluene	ND		20.0	20.4		ug/L		102	80 - 120	13	30
trans-1,2-Dichloroethene	ND		20.0	20.0		ug/L		100	79 - 120	12	30
trans-1,3-Dichloropropene	ND		20.0	20.4		ug/L		102	76 - 120	11	30
Trichloroethene	54	F1	20.0	62.3	F1	ug/L		40	77 - 120	6	30
Trichlorofluoromethane	0.76	J	20.0	20.8		ug/L		100	71 - 143	5	30
Vinyl chloride	ND		20.0	21.3		ug/L		107	62 - 138	2	30
cis-1,3-Dichloropropene	ND		20.0	20.5		ug/L		102	77 - 120	13	30
Styrene	ND		20.0	18.0		ug/L		90	80 - 120	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*72 - 131*

Lab Sample ID: MB 460-541225/8
Matrix: Water
Analysis Batch: 541225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			08/01/18 08:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			08/01/18 08:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			08/01/18 08:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			08/01/18 08:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			08/01/18 08:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			08/01/18 08:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			08/01/18 08:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			08/01/18 08:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			08/01/18 08:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			08/01/18 08:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			08/01/18 08:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			08/01/18 08:53	1

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

Lab Sample ID: MB 460-541225/8
Matrix: Water
Analysis Batch: 541225

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	ND		5.0	2.9	ug/L			08/01/18 08:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			08/01/18 08:53	1
Acetone	ND		5.0	5.0	ug/L			08/01/18 08:53	1
Benzene	ND		1.0	0.43	ug/L			08/01/18 08:53	1
Bromoform	ND		1.0	0.54	ug/L			08/01/18 08:53	1
Bromomethane	ND		1.0	1.0	ug/L			08/01/18 08:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			08/01/18 08:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			08/01/18 08:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			08/01/18 08:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			08/01/18 08:53	1
Chloroethane	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Chloroform	ND		1.0	0.33	ug/L			08/01/18 08:53	1
Chloromethane	ND		1.0	0.14	ug/L			08/01/18 08:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			08/01/18 08:53	1
Cyclohexane	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			08/01/18 08:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			08/01/18 08:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			08/01/18 08:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			08/01/18 08:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			08/01/18 08:53	1
Methyl acetate	ND		5.0	0.31	ug/L			08/01/18 08:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			08/01/18 08:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			08/01/18 08:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			08/01/18 08:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			08/01/18 08:53	1
Toluene	ND		1.0	0.38	ug/L			08/01/18 08:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			08/01/18 08:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			08/01/18 08:53	1
Trichloroethene	ND		1.0	0.31	ug/L			08/01/18 08:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			08/01/18 08:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			08/01/18 08:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			08/01/18 08:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			08/01/18 08:53	1
Styrene	ND		1.0	0.42	ug/L			08/01/18 08:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*08/01/18 08:53*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*08/01/18 08:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*08/01/18 08:53*	*1*
Dibromofluoromethane (Surr)	*100*		*72 - 131*		*08/01/18 08:53*	*1*

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.1		ug/L		105	75 - 125
1,1,2,2-Tetrachloroethane	20.0	24.0		ug/L		120	74 - 120

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

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.9		ug/L		119	59 - 150
1,1,2-Trichloroethane	20.0	23.0		ug/L		115	78 - 120
1,1-Dichloroethane	20.0	23.9		ug/L		120	77 - 123
1,1-Dichloroethene	20.0	22.5		ug/L		113	74 - 123
1,2,4-Trichlorobenzene	20.0	23.3		ug/L		116	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	23.3		ug/L		116	55 - 134
1,2-Dichlorobenzene	20.0	22.7		ug/L		113	80 - 120
1,2-Dichloroethane	20.0	22.1		ug/L		111	76 - 121
1,2-Dichloropropane	20.0	23.4		ug/L		117	77 - 123
1,3-Dichlorobenzene	20.0	21.8		ug/L		109	80 - 120
1,4-Dichlorobenzene	20.0	21.7		ug/L		109	80 - 120
2-Butanone (MEK)	100	92.3		ug/L		92	64 - 120
2-Hexanone	100	102		ug/L		102	71 - 125
4-Methyl-2-pentanone (MIBK)	100	114		ug/L		114	78 - 124
Acetone	100	126		ug/L		126	39 - 150
Benzene	20.0	24.1		ug/L		121	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	14.1		ug/L		70	10 - 150
Carbon disulfide	20.0	23.2		ug/L		116	69 - 133
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 132
Chlorobenzene	20.0	21.7		ug/L		108	80 - 120
Dibromochloromethane	20.0	20.0		ug/L		100	73 - 120
Chloroethane	20.0	19.6		ug/L		98	52 - 150
Chloroform	20.0	21.8		ug/L		109	80 - 120
Chloromethane	20.0	23.2		ug/L		116	56 - 131
cis-1,2-Dichloroethene	20.0	21.4		ug/L		107	80 - 120
Cyclohexane	20.0	24.1		ug/L		120	56 - 150
Bromodichloromethane	20.0	20.9		ug/L		104	76 - 120
Dichlorodifluoromethane	20.0	21.9		ug/L		109	50 - 131
Ethylbenzene	20.0	20.9		ug/L		105	80 - 120
1,2-Dibromoethane	20.0	21.8		ug/L		109	80 - 120
Isopropylbenzene	20.0	22.7		ug/L		113	80 - 123
Methyl acetate	40.0	65.3	*	ug/L		163	66 - 144
Methyl tert-butyl ether	20.0	22.2		ug/L		111	79 - 122
Methylcyclohexane	20.0	23.8		ug/L		119	61 - 145
Methylene Chloride	20.0	22.0		ug/L		110	77 - 123
Tetrachloroethene	20.0	21.2		ug/L		106	78 - 122
Toluene	20.0	22.2		ug/L		111	80 - 120
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	79 - 120
trans-1,3-Dichloropropene	20.0	22.2		ug/L		111	76 - 120
Trichloroethene	20.0	20.8		ug/L		104	77 - 120
Trichlorofluoromethane	20.0	20.6		ug/L		103	71 - 143
Vinyl chloride	20.0	21.2		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	23.2		ug/L		116	77 - 120
Styrene	20.0	21.6		ug/L		108	80 - 120

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

Lab Sample ID: LCS 460-541225/4
Matrix: Water
Analysis Batch: 541225

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*93*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-540563/1-A
Matrix: Water
Analysis Batch: 540569

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 540563

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/29/18 09:28	07/29/18 23:15	1

Lab Sample ID: LCS 460-540563/2-A
Matrix: Water
Analysis Batch: 540569

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.248	J	ug/L		31	10 - 137

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 540569

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		0.800	0.519		ug/L		65	10 - 137

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 540569

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 540563

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		0.800	0.683		ug/L		85	10 - 137	27	30

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

GC/MS VOA

Prep Batch: 427697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	5035A_L	
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	
MB 480-427697/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-427697/23-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	5035A_L	

Analysis Batch: 427705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697
MB 480-427697/2-A	Method Blank	Total/NA	Solid	8260C	427697
LCS 480-427697/23-A	Lab Control Sample	Total/NA	Solid	8260C	427697
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	8260C	427697

Analysis Batch: 427843

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	8260C	427697
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	8260C	427697
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	8260C	427697

Analysis Batch: 541118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-2	MW-1161-4-20180724	Total/NA	Water	8260C	
480-139579-3	TB-20180724	Total/NA	Water	8260C	
480-139579-4	FB-20180724	Total/NA	Water	8260C	
480-139579-9	FB-20180725	Total/NA	Water	8260C	
480-139579-10	MW-161-3-20180725	Total/NA	Water	8260C	
480-139579-11	TB-20180725	Total/NA	Water	8260C	
MB 460-541118/8	Method Blank	Total/NA	Water	8260C	
LCS 460-541118/4	Lab Control Sample	Total/NA	Water	8260C	
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	8260C	
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	8260C	

Analysis Batch: 541225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	8260C	
MB 460-541225/8	Method Blank	Total/NA	Water	8260C	
LCS 460-541225/4	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 540563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	3510C	
480-139579-2	MW-1161-4-20180724	Total/NA	Water	3510C	
480-139579-4	FB-20180724	Total/NA	Water	3510C	
480-139579-10	MW-161-3-20180725	Total/NA	Water	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 540563 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-540563/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-540563/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	3510C	
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	3510C	

Analysis Batch: 540569

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	8270C	540563
480-139579-2	MW-1161-4-20180724	Total/NA	Water	8270C	540563
480-139579-4	FB-20180724	Total/NA	Water	8270C	540563
480-139579-10	MW-161-3-20180725	Total/NA	Water	8270C	540563
MB 460-540563/1-A	Method Blank	Total/NA	Water	8270C	540563
LCS 460-540563/2-A	Lab Control Sample	Total/NA	Water	8270C	540563
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	8270C	540563
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	8270C	540563

General Chemistry

Analysis Batch: 427505

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-5	PD1-23-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-6	PDI-123-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-7	PDI-24-SO-18-20180725	Total/NA	Solid	Moisture	
480-139579-8	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	
480-139579-8 MS	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	
480-139579-8 MSD	PDI-25-SO-14-20180725	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: MW-161-4-20180724
Lab Sample ID: 480-139579-1
Date Collected: 07/24/18 10:10
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541225	08/01/18 11:59	CJM	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:04	SK	TAL EDI

Client Sample ID: MW-1161-4-20180724
Lab Sample ID: 480-139579-2
Date Collected: 07/24/18 10:15
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:30	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:25	SK	TAL EDI

Client Sample ID: TB-20180724
Lab Sample ID: 480-139579-3
Date Collected: 07/24/18 08:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	07/31/18 23:03	VBP	TAL EDI

Client Sample ID: FB-20180724
Lab Sample ID: 480-139579-4
Date Collected: 07/24/18 11:45
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 00:20	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 02:47	SK	TAL EDI

Client Sample ID: PD1-23-SO-18-20180725
Lab Sample ID: 480-139579-5
Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PD1-23-SO-18-20180725
Lab Sample ID: 480-139579-5
Date Collected: 07/25/18 08:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 76.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: PD1-23-SO-18-20180725 — Lab Sample ID: 480-139579-5

Date Collected: 07/25/18 08:30 — **Matrix: Solid**
Date Received: 07/26/18 09:50 — **Percent Solids: 76.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	427843	08/03/18 01:39	CDC	TAL BUF

Client Sample ID: PDI-123-SO-18-20180725 — Lab Sample ID: 480-139579-6

Date Collected: 07/25/18 08:40 — **Matrix: Solid**
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PDI-123-SO-18-20180725 — Lab Sample ID: 480-139579-6

Date Collected: 07/25/18 08:40 — **Matrix: Solid**
Date Received: 07/26/18 09:50 — **Percent Solids: 76.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427843	08/03/18 02:05	CDC	TAL BUF

Client Sample ID: PDI-24-SO-18-20180725 — Lab Sample ID: 480-139579-7

Date Collected: 07/25/18 08:50 — **Matrix: Solid**
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Client Sample ID: PDI-24-SO-18-20180725 — Lab Sample ID: 480-139579-7

Date Collected: 07/25/18 08:50 — **Matrix: Solid**
Date Received: 07/26/18 09:50 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427843	08/03/18 02:31	CDC	TAL BUF

Client Sample ID: PDI-25-SO-14-20180725 — Lab Sample ID: 480-139579-8

Date Collected: 07/25/18 09:30 — **Matrix: Solid**
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	427505	08/01/18 10:34	LMS	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Client Sample ID: PDI-25-SO-14-20180725

Lab Sample ID: 480-139579-8

Date Collected: 07/25/18 09:30
Matrix: Solid
Date Received: 07/26/18 09:50
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			427697	07/26/18 18:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	427705	08/02/18 19:31	AEM	TAL BUF

Client Sample ID: FB-20180725

Lab Sample ID: 480-139579-9

Date Collected: 07/25/18 09:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 00:44	VBP	TAL EDI

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10

Date Collected: 07/25/18 12:25
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:53	VBP	TAL EDI
Total/NA	Prep	3510C			540563	07/29/18 09:28	KMH	TAL EDI
Total/NA	Analysis	8270C		1	540569	07/30/18 00:40	SK	TAL EDI

Client Sample ID: TB-20180725

Lab Sample ID: 480-139579-11

Date Collected: 07/25/18 08:00
Matrix: Water
Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	541118	08/01/18 01:07	VBP	TAL EDI

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-139579-1	MW-161-4-20180724	Water	07/24/18 10:10	07/26/18 09:50
480-139579-2	MW-1161-4-20180724	Water	07/24/18 10:15	07/26/18 09:50
480-139579-3	TB-20180724	Water	07/24/18 08:00	07/26/18 09:50
480-139579-4	FB-20180724	Water	07/24/18 11:45	07/26/18 09:50
480-139579-5	PD1-23-SO-18-20180725	Solid	07/25/18 08:30	07/26/18 09:50
480-139579-6	PDI-123-SO-18-20180725	Solid	07/25/18 08:40	07/26/18 09:50
480-139579-7	PDI-24-SO-18-20180725	Solid	07/25/18 08:50	07/26/18 09:50
480-139579-8	PDI-25-SO-14-20180725	Solid	07/25/18 09:30	07/26/18 09:50
480-139579-9	FB-20180725	Water	07/25/18 09:00	07/26/18 09:50
480-139579-10	MW-161-3-20180725	Water	07/25/18 12:25	07/26/18 09:50
480-139579-11	TB-20180725	Water	07/25/18 08:00	07/26/18 09:50

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: LE / AH	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-115855-26792.1
Client Contact: Amy Picunas	Phone: 518-782-4500	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STD			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Ac
D - Nitric
E - NaHS
F - MeOH
G - Amch
H - Asco
I - Ice
J - DI Wate
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

480-139579 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - (MOD) PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260C - VOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	F		
MW-161-4-20180724	7/24/18	1010	G	Water	N	N	X	X	X		7	
MW-1161-4-20180724	7/24/18	1015	G	Water	N	N	X	X	X		7	
TB-20180724	7/24/18	0800	G	Water	N	N			X		3	TRIP BLANK GW
FB-20180724	7/24/18	1145	G	Water	N	N	X	X	X		7	GW Field Blank
PDI-23-SO-18-20180725	7/25/18	0830	G	S Water	N	N				X	4	
PDI-123-SO-18-20180725	7/25/18	0840	G	S Water	N	N				X	4	
PDI-24-SO-18-20180725	7/25/18	0850	G	S Water	N	N				X	4	
PDI-25-SO-14-20180725	7/25/18	0930	G	S Water	N	Y				X	12	MS/MSD
FB-20180725	7/25/18	0900	G	W Solid	N	N			X		3	SO Field Blank.
MW-161-3-20180725	7/25/18	1225	G	W Solid	N	Y	X	X	X		21	MS/MSD
TB-20180725	7/25/18	0800	G	W Solid	N	N			X		3	TRIP BLANK SOIL

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
LIA ESTRADA	7/25/18 13:30	CDM SMITH		7/25/18 1730	TA
	7/25/18 15:40	TA		7/25/18 1800	TA
	7/26/18 1700	TA		7/26/18 950	TA

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 3.7 3.9 #1

Ver: 08/04/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/10/2018

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-43639.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139579-1
Address: 777 New Durham Road, ,	Due Date Requested: 8/7/2018			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270_SIM_14DX/3510C_LVI 1,4-Dioxane	8260C/5030C VOC	8260C/5035A_FM TCL list OLM04.2	8260C/5035A_FP TCL list OLM04.2	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
MW-161-4-20180724 (480-139579-1)	7/24/18	10:10 Eastern		Water			X	X				5	
MW-1161-4-20180724 (480-139579-2)	7/24/18	10:15 Eastern		Water			X	X				5	
TB-20180724 (480-139579-3)	7/24/18	08:00 Eastern		Water				X				2	
FB-20180724 (480-139579-4)	7/24/18	11:45 Eastern		Water			X	X				5	
PD1-23-SO-18-20180725 (480-139579-5)	7/25/18	08:30 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-123-SO-18-20180725 (480-139579-6)	7/25/18	08:40 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-24-SO-18-20180725 (480-139579-7)	7/25/18	08:50 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-25-SO-14-20180725 (480-139579-8)	7/25/18	09:30 Eastern		Solid					X	X	X	4	, VOA ONLY DW
PDI-25-SO-14-20180725 (480-139579-8MS)	7/25/18	09:30 Eastern	MS	Solid					X	X	X	4	, VOA ONLY DW

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	7/27/18 1610	[illegible]	RJL FEDEX	7/28/18 1120	TAL-BUF
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 526055	Cooler Temperature(s) °C and Other Remarks: IR #11 4.0

Ver: 09/20/2016

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/10/2018

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-43639.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139579-1
Address: 777 New Durham Road, ,	Due Date Requested: 8/7/2018			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270_SIM_14DX/3510C_LVI 1,4-Dioxane	8260C/5030C VOC	8260C/5035A_FM TCL list OLM04.2	8260C/5035A_FP TCL list OLM04.2	Moisture	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
PDI-25-SO-14-20180725 (480-139579-8MSD)	7/25/18	09:30 Eastern	MSD	Solid					X	X	X	4	, VOA ONLY DW
FB-20180725 (480-139579-9)	7/25/18	09:00 Eastern		Water				X				3	
MW-161-3-20180725 (480-139579-10)	7/25/18	12:25 Eastern		Water			X	X				5	
MW-161-3-20180725 (480-139579-10MS)	7/25/18	12:25 Eastern	MS	Water			X	X				5	
MW-161-3-20180725 (480-139579-10MSD)	7/25/18	12:25 Eastern	MSD	Water			X	X				5	
TB-20180725 (480-139579-11)	7/25/18	08:00 Eastern		Water				X				3	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 7/27/18 1610	Company:	Received by: RJF VIA FEDEX	Date/Time: 7/28/18 1120	Company: FACTOR		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

480-139579 Field Sheet

Job: _____

Tracking # 4276 0717 3772 SO / PO / FO / 2-Day / Ground / UPS / Courier / GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes: _____

Therm. ID: AK-2 / AK-3 / AK-5 / AK-6 / HACCP / Other _____

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: SEAL 526059

Sample Custody Seal: —

Cooler ID: _____

Temp: Observed 5.7

From: Temp Blank ☐ Sample ☒

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒ AP
Multiphasic samples are not present?	☒	☐	☒
Sample temp OK?	☒	☐	☐
Sample out of temp?	☐	☒	☐

Initials: AP Date: 07/20/18

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W208 box

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-1

Login Number: 139579

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM SMITH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-1

Login Number: 139579
List Number: 2
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison
List Creation: 07/28/18 07:44 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	CS#526055
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.0°C IR#11
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-139579-2
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
8/22/2018 10:59:43 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Isotope Dilution Summary 10
QC Sample Results 11
QC Association Summary 19
Lab Chronicle 20
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Field Data Sheets 26
Receipt Checklists 27

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Qualifiers

LCMS

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Job ID: 480-139579-2

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-139579-2

Receipt
The samples were received on 7/26/2018 9:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.0º C, 3.7º C and 3.9º C.

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

Organic Prep
Method 3535: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 320-237579. 3535 - water - 320-237579

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: MW-161-4-20180724 — Lab Sample ID: 480-139579-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.7		1.7	0.30	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	8.6		1.7	0.42	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.4		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	4.3		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.0		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J B	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.65	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.4	J B	1.7	0.15	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	J	1.7	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-1161-4-20180724 — Lab Sample ID: 480-139579-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	4.1		1.7	0.30	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	7.8		1.7	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	5.2		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.8		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	7.8		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	1.5	J B	1.7	0.23	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.54	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	0.94	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.6	J B	1.7	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.47	ng/L	1		537 (modified)	Total/NA

Client Sample ID: FB-20180724 — Lab Sample ID: 480-139579-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorohexanesulfonic acid (PFHxS)	0.26	J B	1.7	0.15	ng/L	1		537 (modified)	Total/NA

Client Sample ID: MW-161-3-20180725 — Lab Sample ID: 480-139579-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	5.2		1.7	0.31	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.3		1.7	0.43	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.7		1.7	0.51	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	3.4		1.7	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	8.0		1.7	0.74	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.1		1.7	0.24	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.51	J	1.7	0.27	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.7	0.17	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J B	1.7	0.15	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	28		1.7	0.47	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: MW-161-4-20180724

Lab Sample ID: 480-139579-1

Date Collected: 07/24/18 10:10

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.7		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluoropentanoic acid (PFPeA)	8.6		1.7	0.42	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorohexanoic acid (PFHxA)	6.4		1.7	0.50	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluoroheptanoic acid (PFHpA)	4.3		1.7	0.22	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorooctanoic acid (PFOA)	7.0		1.7	0.74	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorononanoic acid (PFNA)	1.5	J B	1.7	0.23	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorodecanoic acid (PFDA)	0.65	J	1.7	0.27	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorobutanesulfonic acid (PFBS)	1.2	J	1.7	0.17	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorohexanesulfonic acid (PFHxS)	1.4	J B	1.7	0.15	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.19	J	1.7	0.16	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.47	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		08/02/18 10:57	08/05/18 00:41	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:41	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*87*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C4 PFBA	*64*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C2 PFHxA	*84*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C4 PFOA	*98*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C5 PFNA	*99*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C2 PFDA	*96*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C2 PFUnA	*99*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C2 PFDoA	*94*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C2-PFTeDA	*105*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
18O2 PFHxS	*85*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C3-PFBS	*77*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C4 PFOS	*85*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C4-PFHpA	*86*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*
13C5 PFPeA	*75*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:41*	*1*

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	4.1		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluoropentanoic acid (PFPeA)	7.8		1.7	0.43	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorohexanoic acid (PFHxA)	5.2		1.7	0.50	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluoroheptanoic acid (PFHpA)	3.8		1.7	0.22	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorooctanoic acid (PFOA)	7.8		1.7	0.74	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorononanoic acid (PFNA)	1.5	J B	1.7	0.23	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorodecanoic acid (PFDA)	0.54	J	1.7	0.27	ng/L		08/02/18 10:57	08/05/18 00:48	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.95	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorobutanesulfonic acid (PFBS)	**0.94**	**J**	1.7	0.17	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorohexanesulfonic acid (PFHxS)	**1.6**	**J B**	1.7	0.15	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorooctanesulfonic acid (PFOS)	**16**		1.7	0.47	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		08/02/18 10:57	08/05/18 00:48	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:48	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*81*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C4 PFBA	*57*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C2 PFHxA	*81*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C4 PFOA	*91*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C5 PFNA	*91*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C2 PFDA	*94*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C2 PFUnA	*94*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C2 PFDoA	*101*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C2-PFTeDA	*124*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
18O2 PFHxS	*84*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C3-PFBS	*73*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C4 PFOS	*83*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C4-PFHpA	*86*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*
13C5 PFPeA	*71*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:48*	*1*

Client Sample ID: FB-20180724

Lab Sample ID: 480-139579-4

Date Collected: 07/24/18 11:45

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluoropentanoic acid (PFPeA)	ND		1.7	0.42	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorohexanoic acid (PFHxA)	ND		1.7	0.50	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluoroheptanoic acid (PFHpA)	ND		1.7	0.21	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorooctanoic acid (PFOA)	ND		1.7	0.73	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorononanoic acid (PFNA)	ND		1.7	0.23	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.26	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.94	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.47	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.7	0.17	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorohexanesulfonic acid (PFHxS)	**0.26**	**J B**	1.7	0.15	ng/L		08/02/18 10:57	08/05/18 00:56	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: FB-20180724

Lab Sample ID: 480-139579-4

Date Collected: 07/24/18 11:45

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.16	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.7	0.46	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.27	ng/L		08/02/18 10:57	08/05/18 00:56	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.30	ng/L		08/02/18 10:57	08/05/18 00:56	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*73*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C4 PFBA	*84*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C2 PFHxA	*84*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C4 PFOA	*92*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C5 PFNA	*94*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C2 PFDA	*93*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C2 PFUnA	*91*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C2 PFDoA	*87*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C2-PFTeDA	*98*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
18O2 PFHxS	*78*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C3-PFBS	*77*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C4 PFOS	*81*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C4-PFHpA	*93*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*
13C5 PFPeA	*85*		*25 - 150*	*08/02/18 10:57*	*08/05/18 00:56*	*1*

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10

Date Collected: 07/25/18 12:25

Matrix: Water

Date Received: 07/26/18 09:50

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.2**		1.7	0.31	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluoropentanoic acid (PFPeA)	**5.3**		1.7	0.43	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorohexanoic acid (PFHxA)	**4.7**		1.7	0.51	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluoroheptanoic acid (PFHpA)	**3.4**		1.7	0.22	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorooctanoic acid (PFOA)	**8.0**		1.7	0.74	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorononanoic acid (PFNA)	**2.1**		1.7	0.24	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorodecanoic acid (PFDA)	**0.51**	**J**	1.7	0.27	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.96	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.48	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.7	1.1	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.25	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorobutanesulfonic acid (PFBS)	**1.3**	**J**	1.7	0.17	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J B**	1.7	0.15	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.7	0.17	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorooctanesulfonic acid (PFOS)	**28**		1.7	0.47	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.28	ng/L		08/07/18 10:22	08/09/18 02:32	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.7	0.31	ng/L		08/07/18 10:22	08/09/18 02:32	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*80*		*25 - 150*	*08/07/18 10:22*	*08/09/18 02:32*	*1*

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: MW-161-3-20180725
Date Collected: 07/25/18 12:25
Date Received: 07/26/18 09:50

Lab Sample ID: 480-139579-10
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	65		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C2 PFHxA	80		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C4 PFOA	90		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C5 PFNA	88		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C2 PFDA	88		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C2 PFUnA	91		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C2 PFDoA	88		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C2-PFTeDA	63		25 - 150	08/07/18 10:22	08/09/18 02:32	1
18O2 PFHxS	80		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C3-PFBS	82		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C4 PFOS	83		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C4-PFHpA	83		25 - 150	08/07/18 10:22	08/09/18 02:32	1
13C5 PFPeA	81		25 - 150	08/07/18 10:22	08/09/18 02:32	1

Isotope Dilution Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDoA (25-150)
480-139579-1	MW-161-4-20180724	87	64	84	98	99	96	99	94
480-139579-2	MW-1161-4-20180724	81	57	81	91	91	94	94	101
480-139579-4	FB-20180724	73	84	84	92	94	93	91	87
480-139579-10	MW-161-3-20180725	80	65	80	90	88	88	91	88
480-139579-10 MS	MW-161-3-20180725	87	74	92	97	95	98	94	93
480-139579-10 MSD	MW-161-3-20180725	88	70	87	95	91	95	94	93
LCS 320-237579/2-A	Lab Control Sample	78	92	93	93	98	97	97	95
LCS 320-238439/2-A	Lab Control Sample	87	98	94	94	95	96	98	94
LCSD 320-237579/3-A	Lab Control Sample Dup	79	93	96	96	104	97	89	89
LCSD 320-238439/3-A	Lab Control Sample Dup	85	99	96	94	96	95	94	97
MB 320-237579/1-A	Method Blank	79	92	92	92	97	96	94	87
MB 320-238439/1-A	Method Blank	85	97	92	95	94	94	93	94

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFTDA (25-150)	PFHxS (25-150)	13C3-PFBS (25-150)	PFOS (25-150)	PFHpA (25-150)	PFPeA (25-150)		
480-139579-1	MW-161-4-20180724	105	85	77	85	86	75		
480-139579-2	MW-1161-4-20180724	124	84	73	83	86	71		
480-139579-4	FB-20180724	98	78	77	81	93	85		
480-139579-10	MW-161-3-20180725	63	80	82	83	83	81		
480-139579-10 MS	MW-161-3-20180725	82	91	94	93	97	91		
480-139579-10 MSD	MW-161-3-20180725	79	90	88	92	90	86		
LCS 320-237579/2-A	Lab Control Sample	116	83	80	86	92	88		
LCS 320-238439/2-A	Lab Control Sample	101	94	93	95	99	99		
LCSD 320-237579/3-A	Lab Control Sample Dup	106	79	82	79	92	88		
LCSD 320-238439/3-A	Lab Control Sample Dup	97	92	94	96	96	97		
MB 320-237579/1-A	Method Blank	103	85	80	80	93	88		
MB 320-238439/1-A	Method Blank	93	94	90	93	100	92		

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFTDA = 13C2-PFTeDA
PFHxS = 18O2 PFHxS
13C3-PFBS = 13C3-PFBS
PFOS = 13C4 PFOS
PFHpA = 13C4-PFHpA
PFPeA = 13C5 PFPeA

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-237579/1-A
Matrix: Water
Analysis Batch: 238236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 237579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorononanoic acid (PFNA)	0.337	J	2.0	0.27	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorohexanesulfonic acid (PFHxS)	0.263	J	2.0	0.17	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		08/02/18 10:57	08/04/18 22:48	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		08/02/18 10:57	08/04/18 22:48	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*79*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C4 PFBA	*92*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C2 PFHxA	*92*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C4 PFOA	*92*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C5 PFNA	*97*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C2 PFDA	*96*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C2 PFUnA	*94*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C2 PFDoA	*87*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C2-PFTeDA	*103*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
18O2 PFHxS	*85*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C3-PFBS	*80*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C4 PFOS	*80*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C4-PFHpA	*93*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*
13C5 PFPeA	*88*		*25 - 150*	*08/02/18 10:57*	*08/04/18 22:48*	*1*

Lab Sample ID: LCS 320-237579/2-A
Matrix: Water
Analysis Batch: 238236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	39.3		ng/L		98	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.1		ng/L		95	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	37.5		ng/L		94	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	43.0		ng/L		107	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	41.2		ng/L		103	64 - 124
Perfluorononanoic acid (PFNA)	40.0	39.6		ng/L		99	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	36.5		ng/L		91	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-237579/2-A
Matrix: Water
Analysis Batch: 238236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 237579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorododecanoic acid (PFDoA)	40.0	41.0		ng/L		102	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	42.0		ng/L		105	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	36.5		ng/L		91	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	35.4		ng/L		100	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	34.5		ng/L		95	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.0		ng/L		100	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	36.8		ng/L		99	67 - 127
Perfluorodecanesulfonic acid (PFDS)	38.6	38.0		ng/L		98	68 - 128
Perfluorooctane Sulfonamide (FOSA)	40.0	41.2		ng/L		103	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*78*		*25 - 150*
13C4 PFBA	*92*		*25 - 150*
13C2 PFHxA	*93*		*25 - 150*
13C4 PFOA	*93*		*25 - 150*
13C5 PFNA	*98*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*97*		*25 - 150*
13C2 PFDoA	*95*		*25 - 150*
13C2-PFTeDA	*116*		*25 - 150*
18O2 PFHxS	*83*		*25 - 150*
13C3-PFBS	*80*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*92*		*25 - 150*
13C5 PFPeA	*88*		*25 - 150*

Lab Sample ID: LCSD 320-237579/3-A
Matrix: Water
Analysis Batch: 238236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237579

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	42.5		ng/L		106	70 - 130	8	30
Perfluoropentanoic acid (PFPeA)	40.0	42.0		ng/L		105	66 - 126	10	30
Perfluorohexanoic acid (PFHxA)	40.0	37.7		ng/L		94	66 - 126	1	30
Perfluoroheptanoic acid (PFHpA)	40.0	43.4		ng/L		108	66 - 126	1	30
Perfluorooctanoic acid (PFOA)	40.0	40.7		ng/L		102	64 - 124	1	30
Perfluorononanoic acid (PFNA)	40.0	41.8		ng/L		104	68 - 128	5	30
Perfluorodecanoic acid (PFDA)	40.0	41.4		ng/L		104	69 - 129	13	30
Perfluoroundecanoic acid (PFUnA)	40.0	40.9		ng/L		102	60 - 120	11	30
Perfluorododecanoic acid (PFDoA)	40.0	43.4		ng/L		109	71 - 131	6	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-237579/3-A
Matrix: Water
Analysis Batch: 238236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 237579

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorotridecanoic Acid (PFTriA)			40.0	45.7		ng/L		114	72 - 132	8	30
Perfluorotetradecanoic acid (PFTeA)			40.0	39.4		ng/L		99	68 - 128	8	30
Perfluorobutanesulfonic acid (PFBS)			35.4	38.4		ng/L		108	73 - 133	8	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	36.7		ng/L		101	63 - 123	6	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	41.9		ng/L		110	68 - 128	10	30
Perfluorooctanesulfonic acid (PFOS)			37.1	41.2		ng/L		111	67 - 127	11	30
Perfluorodecanesulfonic acid (PFDS)			38.6	39.5		ng/L		103	68 - 128	4	30
Perfluorooctane Sulfonamide (FOSA)			40.0	43.5		ng/L		109	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*79*		*25 - 150*
13C4 PFBA	*93*		*25 - 150*
13C2 PFHxA	*96*		*25 - 150*
13C4 PFOA	*96*		*25 - 150*
13C5 PFNA	*104*		*25 - 150*
13C2 PFDA	*97*		*25 - 150*
13C2 PFUnA	*89*		*25 - 150*
13C2 PFDoA	*89*		*25 - 150*
13C2-PFTeDA	*106*		*25 - 150*
18O2 PFHxS	*79*		*25 - 150*
13C3-PFBS	*82*		*25 - 150*
13C4 PFOS	*79*		*25 - 150*
13C4-PFHpA	*92*		*25 - 150*
13C5 PFPeA	*88*		*25 - 150*

Lab Sample ID: MB 320-238439/1-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		08/07/18 10:22	08/09/18 01:37	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-238439/1-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 238439

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanesulfonic acid (PFHxS)	0.262	J	2.0	0.17	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		08/07/18 10:22	08/09/18 01:37	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		08/07/18 10:22	08/09/18 01:37	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*85*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C4 PFBA	*97*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C2 PFHxA	*92*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C4 PFOA	*95*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C5 PFNA	*94*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C2 PFDA	*94*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C2 PFUnA	*93*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C2 PFDoA	*94*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C2-PFTeDA	*93*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
18O2 PFHxS	*94*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C3-PFBS	*90*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C4 PFOS	*93*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C4-PFHpA	*100*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*
13C5 PFPeA	*92*		*25 - 150*	*08/07/18 10:22*	*08/09/18 01:37*	*1*

Lab Sample ID: LCS 320-238439/2-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238439

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	38.0		ng/L		95	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	35.5		ng/L		89	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	37.4		ng/L		94	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	36.5		ng/L		91	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	37.6		ng/L		94	64 - 124
Perfluorononanoic acid (PFNA)	40.0	38.4		ng/L		96	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	38.6		ng/L		96	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	39.0		ng/L		98	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	40.9		ng/L		102	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	38.0		ng/L		95	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	34.6		ng/L		98	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.2		ng/L		91	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	36.7		ng/L		96	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	35.5		ng/L		96	67 - 127

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-238439/2-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 238439

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorodecanesulfonic acid (PFDS)			38.6	36.5		ng/L		95	68 - 128		
Perfluorooctane Sulfonamide (FOSA)			40.0	39.0		ng/L		98	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*87*		*25 - 150*
13C4 PFBA	*98*		*25 - 150*
13C2 PFHxA	*94*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*95*		*25 - 150*
13C2 PFDA	*96*		*25 - 150*
13C2 PFUnA	*98*		*25 - 150*
13C2 PFDoA	*94*		*25 - 150*
13C2-PFTeDA	*101*		*25 - 150*
18O2 PFHxS	*94*		*25 - 150*
13C3-PFBS	*93*		*25 - 150*
13C4 PFOS	*95*		*25 - 150*
13C4-PFHpA	*99*		*25 - 150*
13C5 PFPeA	*99*		*25 - 150*

Lab Sample ID: LCSD 320-238439/3-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 238439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	38.0		ng/L		95	70 - 130	0	30
Perfluoropentanoic acid (PFPeA)			40.0	36.5		ng/L		91	66 - 126	3	30
Perfluorohexanoic acid (PFHxA)			40.0	36.1		ng/L		90	66 - 126	4	30
Perfluoroheptanoic acid (PFHpA)			40.0	39.2		ng/L		98	66 - 126	7	30
Perfluorooctanoic acid (PFOA)			40.0	38.6		ng/L		96	64 - 124	3	30
Perfluorononanoic acid (PFNA)			40.0	37.2		ng/L		93	68 - 128	3	30
Perfluorodecanoic acid (PFDA)			40.0	38.9		ng/L		97	69 - 129	1	30
Perfluoroundecanoic acid (PFUnA)			40.0	39.8		ng/L		100	60 - 120	9	30
Perfluorododecanoic acid (PFDoA)			40.0	36.6		ng/L		92	71 - 131	6	30
Perfluorotridecanoic Acid (PFTriA)			40.0	38.6		ng/L		96	72 - 132	6	30
Perfluorotetradecanoic acid (PFTeA)			40.0	37.1		ng/L		93	68 - 128	2	30
Perfluorobutanesulfonic acid (PFBS)			35.4	34.1		ng/L		97	73 - 133	1	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	34.0		ng/L		94	63 - 123	3	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.0		ng/L		100	68 - 128	3	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.5		ng/L		96	67 - 127	0	30
Perfluorodecanesulfonic acid (PFDS)			38.6	37.0		ng/L		96	68 - 128	1	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-238439/3-A
Matrix: Water
Analysis Batch: 238897

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 238439

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonamide (FOSA)			40.0	39.9		ng/L		100	70 - 130	2	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*85*		*25 - 150*
13C4 PFBA	*99*		*25 - 150*
13C2 PFHxA	*96*		*25 - 150*
13C4 PFOA	*94*		*25 - 150*
13C5 PFNA	*96*		*25 - 150*
13C2 PFDA	*95*		*25 - 150*
13C2 PFUnA	*94*		*25 - 150*
13C2 PFDoA	*97*		*25 - 150*
13C2-PFTeDA	*97*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C3-PFBS	*94*		*25 - 150*
13C4 PFOS	*96*		*25 - 150*
13C4-PFHpA	*96*		*25 - 150*
13C5 PFPeA	*97*		*25 - 150*

Lab Sample ID: 480-139579-10 MS
Matrix: Water
Analysis Batch: 238897

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 238439

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	5.2		34.3	36.2		ng/L		90	70 - 130
Perfluoropentanoic acid (PFPeA)	5.3		34.3	36.5		ng/L		91	66 - 126
Perfluorohexanoic acid (PFHxA)	4.7		34.3	35.7		ng/L		90	66 - 126
Perfluoroheptanoic acid (PFHpA)	3.4		34.3	35.0		ng/L		92	66 - 126
Perfluorooctanoic acid (PFOA)	8.0		34.3	41.0		ng/L		96	64 - 124
Perfluorononanoic acid (PFNA)	2.1		34.3	33.7		ng/L		92	68 - 128
Perfluorodecanoic acid (PFDA)	0.51	J	34.3	32.5		ng/L		93	69 - 129
Perfluoroundecanoic acid (PFUnA)	ND		34.3	24.9		ng/L		73	60 - 120
Perfluorododecanoic acid (PFDoA)	ND		34.3	32.5		ng/L		95	71 - 131
Perfluorotridecanoic Acid (PFTriA)	ND		34.3	33.4		ng/L		97	72 - 132
Perfluorotetradecanoic acid (PFTeA)	ND		34.3	34.0		ng/L		99	68 - 128
Perfluorobutanesulfonic acid (PFBS)	1.3	J	30.3	30.7		ng/L		97	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	1.3	J B	31.2	31.0		ng/L		95	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.7	32.8		ng/L		101	68 - 128
Perfluorooctanesulfonic acid (PFOS)	28		31.8	59.9		ng/L		101	67 - 127
Perfluorodecanesulfonic acid (PFDS)	ND		33.1	31.8		ng/L		96	68 - 128
Perfluorooctane Sulfonamide (FOSA)	ND		34.3	33.1		ng/L		96	70 - 130

Isotope Dilution	MS %Recovery	MS Qualifier	Limits
13C8 FOSA	87		25 - 150
13C4 PFBA	74		25 - 150
13C2 PFHxA	92		25 - 150
13C4 PFOA	97		25 - 150
13C5 PFNA	95		25 - 150
13C2 PFDA	98		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	93		25 - 150
13C2-PFTeDA	82		25 - 150
18O2 PFHxS	91		25 - 150
13C3-PFBS	94		25 - 150
13C4 PFOS	93		25 - 150
13C4-PFHpA	97		25 - 150
13C5 PFPeA	91		25 - 150

Lab Sample ID: 480-139579-10 MSD — **Client Sample ID: MW-161-3-20180725**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 238897 — **Prep Batch: 238439**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	5.2		33.6	36.0		ng/L		92	70 - 130	1	30
Perfluoropentanoic acid (PFPeA)	5.3		33.6	37.2		ng/L		95	66 - 126	2	30
Perfluorohexanoic acid (PFHxA)	4.7		33.6	36.0		ng/L		93	66 - 126	1	30
Perfluoroheptanoic acid (PFHpA)	3.4		33.6	36.5		ng/L		98	66 - 126	4	30
Perfluorooctanoic acid (PFOA)	8.0		33.7	39.2		ng/L		92	64 - 124	5	30
Perfluorononanoic acid (PFNA)	2.1		33.6	35.0		ng/L		98	68 - 128	4	30
Perfluorodecanoic acid (PFDA)	0.51	J	33.6	32.4		ng/L		95	69 - 129	0	30
Perfluoroundecanoic acid (PFUnA)	ND		33.6	23.6		ng/L		70	60 - 120	5	30
Perfluorododecanoic acid (PFDoA)	ND		33.6	30.6		ng/L		91	71 - 131	6	30
Perfluorotridecanoic Acid (PFTriA)	ND		33.6	31.5		ng/L		94	72 - 132	6	30
Perfluorotetradecanoic acid (PFTeA)	ND		33.6	31.5		ng/L		93	68 - 128	8	30
Perfluorobutanesulfonic acid (PFBS)	1.3	J	29.7	32.4		ng/L		104	73 - 133	5	30
Perfluorohexanesulfonic acid (PFHxS)	1.3	J B	30.6	29.3		ng/L		91	63 - 123	6	30
Perfluoroheptanesulfonic Acid (PFHpS)	ND		32.0	31.3		ng/L		98	68 - 128	5	30
Perfluorooctanesulfonic acid (PFOS)	28		31.2	57.7		ng/L		96	67 - 127	4	30
Perfluorodecanesulfonic acid (PFDS)	ND		32.4	30.5		ng/L		94	68 - 128	4	30
Perfluorooctane Sulfonamide (FOSA)	ND		33.6	31.5		ng/L		94	70 - 130	5	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C8 FOSA	88		25 - 150
13C4 PFBA	70		25 - 150
13C2 PFHxA	87		25 - 150
13C4 PFOA	95		25 - 150
13C5 PFNA	91		25 - 150
13C2 PFDA	95		25 - 150
13C2 PFUnA	94		25 - 150
13C2 PFDoA	93		25 - 150

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-139579-10 MSD
Matrix: Water
Analysis Batch: 238897

Client Sample ID: MW-161-3-20180725
Prep Type: Total/NA
Prep Batch: 238439

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C2-PFTeDA	79		25 - 150
18O2 PFHxS	90		25 - 150
13C3-PFBS	88		25 - 150
13C4 PFOS	92		25 - 150
13C4-PFHpA	90		25 - 150
13C5 PFPeA	86		25 - 150

LCMS

Prep Batch: 237579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	3535	
480-139579-2	MW-1161-4-20180724	Total/NA	Water	3535	
480-139579-4	FB-20180724	Total/NA	Water	3535	
MB 320-237579/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-237579/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-237579/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 238236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-1	MW-161-4-20180724	Total/NA	Water	537 (modified)	237579
480-139579-2	MW-1161-4-20180724	Total/NA	Water	537 (modified)	237579
480-139579-4	FB-20180724	Total/NA	Water	537 (modified)	237579
MB 320-237579/1-A	Method Blank	Total/NA	Water	537 (modified)	237579
LCS 320-237579/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	237579
LCSD 320-237579/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	237579

Prep Batch: 238439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-10	MW-161-3-20180725	Total/NA	Water	3535	
MB 320-238439/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-238439/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-238439/3-A	Lab Control Sample Dup	Total/NA	Water	3535	
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	3535	
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	3535	

Analysis Batch: 238897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-139579-10	MW-161-3-20180725	Total/NA	Water	537 (modified)	238439
MB 320-238439/1-A	Method Blank	Total/NA	Water	537 (modified)	238439
LCS 320-238439/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	238439
LCSD 320-238439/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	238439
480-139579-10 MS	MW-161-3-20180725	Total/NA	Water	537 (modified)	238439
480-139579-10 MSD	MW-161-3-20180725	Total/NA	Water	537 (modified)	238439

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Client Sample ID: MW-161-4-20180724

Lab Sample ID: 480-139579-1

Date Collected: 07/24/18 10:10

Matrix: Water

Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			237579	08/02/18 10:57	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1	238236	08/05/18 00:41	S1M	TAL SAC

Client Sample ID: MW-1161-4-20180724

Lab Sample ID: 480-139579-2

Date Collected: 07/24/18 10:15

Matrix: Water

Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			237579	08/02/18 10:57	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1	238236	08/05/18 00:48	S1M	TAL SAC

Client Sample ID: FB-20180724

Lab Sample ID: 480-139579-4

Date Collected: 07/24/18 11:45

Matrix: Water

Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			237579	08/02/18 10:57	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1	238236	08/05/18 00:56	S1M	TAL SAC

Client Sample ID: MW-161-3-20180725

Lab Sample ID: 480-139579-10

Date Collected: 07/25/18 12:25

Matrix: Water

Date Received: 07/26/18 09:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			238439	08/07/18 10:22	KMK	TAL SAC
Total/NA	Analysis	537 (modified)		1	238897	08/09/18 02:32	JRB	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
ANAB	DoD ELAP		L2468	01-20-21
Arizona	State Program	9	AZ0708	08-11-19
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-19
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-19
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-19
USDA	Federal		P330-18-00239	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-139579-1	MW-161-4-20180724	Water	07/24/18 10:10	07/26/18 09:50
480-139579-2	MW-1161-4-20180724	Water	07/24/18 10:15	07/26/18 09:50
480-139579-4	FB-20180724	Water	07/24/18 11:45	07/26/18 09:50
480-139579-10	MW-161-3-20180725	Water	07/25/18 12:25	07/26/18 09:50

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: LE / AH	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-115855-26792.1
Client Contact: Amy Picunas	Phone: 518-782-4500	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STD			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL
B - NaOH
C - Zn Ac
D - Nitric
E - NaHS
F - MeOH
G - Amch
H - Asco
I - Ice
J - DI Wate
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

480-139579 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA - (MOD) PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260C - VOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	F		
MW-161-4-20180724	7/24/18	1010	G	Water	N	N	X	X	X		7	
MW-1161-4-20180724	7/24/18	1015	G	Water	N	N	X	X	X		7	
TB-20180724	7/24/18	0800	G	Water	N	N			X		3	TRIP BLANK GW
FB-20180724	7/24/18	1145	G	Water	N	N	X	X	X		7	GW Field Blank
PDI-23-SO-18-20180725	7/25/18	0830	G	S Water	N	N				X	4	
PDI-123-SO-18-20180725	7/25/18	0840	G	S Water	N	N				X	4	
PDI-24-SO-18-20180725	7/25/18	0850	G	S Water	N	N				X	4	
PDI-25-SO-14-20180725	7/25/18	0930	G	S Water	N	Y				X	12	MS/MSD
FB-20180725	7/25/18	0900	G	W Solid	N	N			X		3	SO Field Blank.
MW-161-3-20180725	7/25/18	1225	G	W Solid	N	Y	X	X	X		21	MS/MSD
TB-20180725	7/25/18	0800	G	W Solid	N	N			X		3	TRIP BLANK SOIL

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	LIA ESTRADA	7/25/18 13:30	CDM SMITH		7/25/18 11370	TA
2		7/25/18 15:40	TA		7/25/18 1600	TA
3		7/26/18 1700	TA		7/26/18 950	TAO

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 3.0 3.7 3.9 #1

Ver: 08/04/2016

Page 24 of 28

8/22/2018

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-43638.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 480-139579-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 8/7/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC (MOD) PFAS, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-161-4-20180724 (480-139579-1)	7/24/18	10:10 Eastern		Water			X	2	
MW-1161-4-20180724 (480-139579-2)	7/24/18	10:15 Eastern		Water			X	2	
FB-20180724 (480-139579-4)	7/24/18	11:45 Eastern		Water			X	2	
MW-161-3-20180725 (480-139579-10)	7/25/18	12:25 Eastern		Water			X	2	
MW-161-3-20180725 (480-139579-10MS)	7/25/18	12:25 Eastern	MS	Water			X	2	
MW-161-3-20180725 (480-139579-10MSD)	7/25/18	12:25 Eastern	MSD	Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmenca laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	7/27/18 1700	[illegible]	[signature]	7/28/18 900	TA SDC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.7

Ver: 09/20/2016

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sacramento

480-139579 Field Sheet

Job: _____

Tracking # 4276 0717 3772 SO / PO / FO / 2-Day / Ground / UPS / Courier / GSO / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes: _____

Therm. ID: AK-2 / AK-3 / AK-5 / AK-6 / HACCP / Other _____

Ice X Wet X Gel _____ Other _____

Cooler Custody Seal: SEAL 526059

Sample Custody Seal: —

Cooler ID: _____

Temp: Observed 5.7

From: Temp Blank ☐ Sample ☒

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☒
Alkalinity has no headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☒ AP
Sample temp OK?	☒	☐	☐
Sample out of temp?	☐	☒	☐

Initials: AP Date: 07/20/18

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

W208 box

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-2

Login Number: 139579

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kolb, Chris M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM SMITH
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-139579-2

Login Number: 139579
List Number: 3
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 07/30/18 11:15 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	526059
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.7c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-143705-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
11/8/2017 9:05:44 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 13
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 20

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Job ID: 460-143705-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-143705-1

Receipt
The sample was received on 10/25/2017 3:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-474301 was outside the method criteria for the following analytes: Chloromethane and Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes is considered estimated.

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: PDI-3-GW-80_85-20171024 (460-143705-1). Elevated reporting limits (RLs) are provided.

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

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Client Sample ID: PDI-3-GW-80_85-20171024

Lab Sample ID: 460-143705-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.91	J	2.0	0.56	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	4.2		2.0	0.52	ug/L	2		8260C	Total/NA
Tetrachloroethene	5.1		2.0	0.24	ug/L	2		8260C	Total/NA
Trichloroethene	190		2.0	0.44	ug/L	2		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-3-GW-80_85-20171024
Date Collected: 10/24/17 17:50
Date Received: 10/25/17 15:50

Lab Sample ID: 460-143705-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.91**	**J**	2.0	0.56	ug/L			11/03/17 13:45	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.38	ug/L			11/03/17 13:45	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.68	ug/L			11/03/17 13:45	2
1,1,2-Trichloroethane	ND		2.0	0.16	ug/L			11/03/17 13:45	2
1,1-Dichloroethane	ND		2.0	0.48	ug/L			11/03/17 13:45	2
1,1-Dichloroethene	ND		2.0	0.68	ug/L			11/03/17 13:45	2
1,2,4-Trichlorobenzene	ND		2.0	0.54	ug/L			11/03/17 13:45	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.46	ug/L			11/03/17 13:45	2
1,2-Dichlorobenzene	ND		2.0	0.44	ug/L			11/03/17 13:45	2
1,2-Dichloroethane	ND		2.0	0.50	ug/L			11/03/17 13:45	2
1,2-Dichloropropane	ND		2.0	0.36	ug/L			11/03/17 13:45	2
1,3-Dichlorobenzene	ND		2.0	0.66	ug/L			11/03/17 13:45	2
1,4-Dichlorobenzene	ND		2.0	0.66	ug/L			11/03/17 13:45	2
2-Butanone (MEK)	ND		10	4.4	ug/L			11/03/17 13:45	2
2-Hexanone	ND		10	1.4	ug/L			11/03/17 13:45	2
4-Methyl-2-pentanone (MIBK)	ND		10	1.3	ug/L			11/03/17 13:45	2
Acetone	ND		10	2.1	ug/L			11/03/17 13:45	2
Benzene	ND		2.0	0.18	ug/L			11/03/17 13:45	2
Bromoform	ND		2.0	0.36	ug/L			11/03/17 13:45	2
Bromomethane	ND		2.0	0.36	ug/L			11/03/17 13:45	2
Carbon disulfide	ND		2.0	0.44	ug/L			11/03/17 13:45	2
Carbon tetrachloride	ND		2.0	0.66	ug/L			11/03/17 13:45	2
Chlorobenzene	ND		2.0	0.48	ug/L			11/03/17 13:45	2
Dibromochloromethane	ND		2.0	0.44	ug/L			11/03/17 13:45	2
Chloroethane	ND		2.0	0.74	ug/L			11/03/17 13:45	2
Chloroform	ND		2.0	0.44	ug/L			11/03/17 13:45	2
Chloromethane	ND		2.0	0.44	ug/L			11/03/17 13:45	2
cis-1,2-Dichloroethene	**4.2**		2.0	0.52	ug/L			11/03/17 13:45	2
Cyclohexane	ND		2.0	0.52	ug/L			11/03/17 13:45	2
Bromodichloromethane	ND		2.0	0.30	ug/L			11/03/17 13:45	2
Dichlorodifluoromethane	ND		2.0	0.28	ug/L			11/03/17 13:45	2
Ethylbenzene	ND		2.0	0.60	ug/L			11/03/17 13:45	2
1,2-Dibromoethane	ND		2.0	0.38	ug/L			11/03/17 13:45	2
Isopropylbenzene	ND		2.0	0.64	ug/L			11/03/17 13:45	2
Methyl acetate	ND		10	1.2	ug/L			11/03/17 13:45	2
Methyl tert-butyl ether	ND		2.0	0.26	ug/L			11/03/17 13:45	2
Methylcyclohexane	ND		2.0	0.44	ug/L			11/03/17 13:45	2
Methylene Chloride	ND		2.0	0.42	ug/L			11/03/17 13:45	2
Tetrachloroethene	**5.1**		2.0	0.24	ug/L			11/03/17 13:45	2
Toluene	ND		2.0	0.50	ug/L			11/03/17 13:45	2
trans-1,2-Dichloroethene	ND		2.0	0.36	ug/L			11/03/17 13:45	2
trans-1,3-Dichloropropene	ND		2.0	0.38	ug/L			11/03/17 13:45	2
Trichloroethene	**190**		2.0	0.44	ug/L			11/03/17 13:45	2
Trichlorofluoromethane	ND		2.0	0.30	ug/L			11/03/17 13:45	2
Vinyl chloride	ND		2.0	0.12	ug/L			11/03/17 13:45	2
Xylenes, Total	ND		4.0	0.56	ug/L			11/03/17 13:45	2
cis-1,3-Dichloropropene	ND		2.0	0.32	ug/L			11/03/17 13:45	2
Styrene	ND		2.0	0.34	ug/L			11/03/17 13:45	2

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Client Sample ID: PDI-3-GW-80_85-20171024
Date Collected: 10/24/17 17:50
Date Received: 10/25/17 15:50

Lab Sample ID: 460-143705-1
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		74 - 132		11/03/17 13:45	2
4-Bromofluorobenzene	95		77 - 124		11/03/17 13:45	2
Toluene-d8 (Surr)	107		80 - 120		11/03/17 13:45	2
Dibromofluoromethane (Surr)	124		72 - 131		11/03/17 13:45	2

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-143705-1	PDI-3-GW-80_85-20171024	115	95	107	124
LCS 460-474301/4	Lab Control Sample	107	99	109	111
LCSD 460-474301/5	Lab Control Sample Dup	105	99	108	110
MB 460-474301/8	Method Blank	115	94	103	123

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-474301/8
Matrix: Water
Analysis Batch: 474301

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/03/17 12:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/03/17 12:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/03/17 12:25	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/03/17 12:25	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/03/17 12:25	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/03/17 12:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/03/17 12:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/03/17 12:25	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/03/17 12:25	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/03/17 12:25	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/03/17 12:25	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 12:25	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 12:25	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/03/17 12:25	1
2-Hexanone	ND		5.0	0.72	ug/L			11/03/17 12:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/03/17 12:25	1
Acetone	ND		5.0	1.1	ug/L			11/03/17 12:25	1
Benzene	ND		1.0	0.090	ug/L			11/03/17 12:25	1
Bromoform	ND		1.0	0.18	ug/L			11/03/17 12:25	1
Bromomethane	ND		1.0	0.18	ug/L			11/03/17 12:25	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/03/17 12:25	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/03/17 12:25	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/03/17 12:25	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/03/17 12:25	1
Chloroethane	ND		1.0	0.37	ug/L			11/03/17 12:25	1
Chloroform	ND		1.0	0.22	ug/L			11/03/17 12:25	1
Chloromethane	ND		1.0	0.22	ug/L			11/03/17 12:25	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/03/17 12:25	1
Cyclohexane	ND		1.0	0.26	ug/L			11/03/17 12:25	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/03/17 12:25	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/03/17 12:25	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/03/17 12:25	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/03/17 12:25	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/03/17 12:25	1
Methyl acetate	ND		5.0	0.58	ug/L			11/03/17 12:25	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/03/17 12:25	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/03/17 12:25	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/03/17 12:25	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/03/17 12:25	1
Toluene	ND		1.0	0.25	ug/L			11/03/17 12:25	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/03/17 12:25	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/03/17 12:25	1
Trichloroethene	ND		1.0	0.22	ug/L			11/03/17 12:25	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/03/17 12:25	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/03/17 12:25	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/03/17 12:25	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/17 12:25	1
Styrene	ND		1.0	0.17	ug/L			11/03/17 12:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*11/03/17 12:25*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*11/03/17 12:25*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*11/03/17 12:25*	*1*
Dibromofluoromethane (Surr)	*123*		*72 - 131*		*11/03/17 12:25*	*1*

Lab Sample ID: LCS 460-474301/4
Matrix: Water
Analysis Batch: 474301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.0		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/L		96	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.8		ug/L		104	59 - 150
1,1,2-Trichloroethane	20.0	19.0		ug/L		95	78 - 120
1,1-Dichloroethane	20.0	18.3		ug/L		91	77 - 123
1,1-Dichloroethene	20.0	17.8		ug/L		89	74 - 123
1,2,4-Trichlorobenzene	20.0	17.1		ug/L		86	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/L		90	55 - 134
1,2-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120
1,2-Dichloroethane	20.0	18.5		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	20.1		ug/L		100	80 - 120
1,4-Dichlorobenzene	20.0	19.7		ug/L		99	80 - 120
2-Butanone (MEK)	100	104		ug/L		104	64 - 120
2-Hexanone	100	87.3		ug/L		87	71 - 125
4-Methyl-2-pentanone (MIBK)	100	88.5		ug/L		89	78 - 124
Acetone	100	101		ug/L		101	39 - 150
Benzene	20.0	18.5		ug/L		92	77 - 121
Bromoform	20.0	18.2		ug/L		91	53 - 120
Bromomethane	20.0	9.09		ug/L		45	10 - 150
Carbon disulfide	20.0	17.5		ug/L		88	69 - 133
Carbon tetrachloride	20.0	21.9		ug/L		109	70 - 132
Chlorobenzene	20.0	18.8		ug/L		94	80 - 120
Dibromochloromethane	20.0	19.3		ug/L		96	73 - 120
Chloroethane	20.0	20.7		ug/L		104	52 - 150
Chloroform	20.0	19.8		ug/L		99	80 - 120
Chloromethane	20.0	15.8		ug/L		79	56 - 131
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	80 - 120
Cyclohexane	20.0	18.3		ug/L		92	56 - 150
Bromodichloromethane	20.0	19.7		ug/L		98	76 - 120
Dichlorodifluoromethane	20.0	18.9		ug/L		94	50 - 131
Ethylbenzene	20.0	18.5		ug/L		93	80 - 120
1,2-Dibromoethane	20.0	18.9		ug/L		94	80 - 120
Isopropylbenzene	20.0	18.2		ug/L		91	80 - 123
Methyl acetate	100	85.2		ug/L		85	66 - 144
Methyl tert-butyl ether	20.0	18.3		ug/L		91	79 - 122
Methylcyclohexane	20.0	19.5		ug/L		97	61 - 145
Methylene Chloride	20.0	18.9		ug/L		95	77 - 123
Tetrachloroethene	20.0	19.9		ug/L		100	78 - 122
Toluene	20.0	19.5		ug/L		97	80 - 120
trans-1,2-Dichloroethene	20.0	19.4		ug/L		97	79 - 120
trans-1,3-Dichloropropene	20.0	18.0		ug/L		90	76 - 120
Trichloroethene	20.0	18.8		ug/L		94	77 - 120

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

Lab Sample ID: LCS 460-474301/4
Matrix: Water
Analysis Batch: 474301

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	23.4		ug/L		117	71 - 143
Vinyl chloride	20.0	19.9		ug/L		100	62 - 138
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	77 - 120
Styrene	20.0	18.3		ug/L		91	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*109*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*72 - 131*

Lab Sample ID: LCSD 460-474301/5
Matrix: Water
Analysis Batch: 474301

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	75 - 125	1	30
1,1,2,2-Tetrachloroethane	20.0	19.0		ug/L		95	74 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.3		ug/L		102	59 - 150	3	30
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	78 - 120	2	30
1,1-Dichloroethane	20.0	17.9		ug/L		90	77 - 123	2	30
1,1-Dichloroethene	20.0	17.7		ug/L		88	74 - 123	1	30
1,2,4-Trichlorobenzene	20.0	17.4		ug/L		87	80 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	55 - 134	1	30
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120	2	30
1,2-Dichloroethane	20.0	18.5		ug/L		92	76 - 121	0	30
1,2-Dichloropropane	20.0	18.5		ug/L		93	77 - 123	5	30
1,3-Dichlorobenzene	20.0	19.7		ug/L		98	80 - 120	2	30
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	0	30
2-Butanone (MEK)	100	108		ug/L		108	64 - 120	4	30
2-Hexanone	100	93.1		ug/L		93	71 - 125	6	30
4-Methyl-2-pentanone (MIBK)	100	91.2		ug/L		91	78 - 124	3	30
Acetone	100	103		ug/L		103	39 - 150	2	30
Benzene	20.0	18.9		ug/L		94	77 - 121	2	30
Bromoform	20.0	18.2		ug/L		91	53 - 120	0	30
Bromomethane	20.0	9.24		ug/L		46	10 - 150	2	30
Carbon disulfide	20.0	17.0		ug/L		85	69 - 133	3	30
Carbon tetrachloride	20.0	21.1		ug/L		105	70 - 132	4	30
Chlorobenzene	20.0	19.1		ug/L		95	80 - 120	1	30
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120	2	30
Chloroethane	20.0	20.3		ug/L		102	52 - 150	2	30
Chloroform	20.0	19.9		ug/L		99	80 - 120	0	30
Chloromethane	20.0	15.5		ug/L		77	56 - 131	2	30
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120	1	30
Cyclohexane	20.0	18.1		ug/L		91	56 - 150	1	30
Bromodichloromethane	20.0	20.0		ug/L		100	76 - 120	2	30
Dichlorodifluoromethane	20.0	18.3		ug/L		91	50 - 131	3	30

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

Lab Sample ID: LCSD 460-474301/5
Matrix: Water
Analysis Batch: 474301

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.5		ug/L		93	80 - 120	0	30
1,2-Dibromoethane			20.0	19.2		ug/L		96	80 - 120	2	30
Isopropylbenzene			20.0	18.1		ug/L		91	80 - 123	0	30
Methyl acetate			100	83.6		ug/L		84	66 - 144	2	30
Methyl tert-butyl ether			20.0	18.0		ug/L		90	79 - 122	1	30
Methylcyclohexane			20.0	18.9		ug/L		94	61 - 145	3	30
Methylene Chloride			20.0	18.6		ug/L		93	77 - 123	2	30
Tetrachloroethene			20.0	19.6		ug/L		98	78 - 122	2	30
Toluene			20.0	19.3		ug/L		96	80 - 120	1	30
trans-1,2-Dichloroethene			20.0	18.9		ug/L		94	79 - 120	2	30
trans-1,3-Dichloropropene			20.0	17.8		ug/L		89	76 - 120	1	30
Trichloroethene			20.0	18.8		ug/L		94	77 - 120	0	30
Trichlorofluoromethane			20.0	22.8		ug/L		114	71 - 143	3	30
Vinyl chloride			20.0	19.9		ug/L		99	62 - 138	0	30
cis-1,3-Dichloropropene			20.0	18.6		ug/L		93	77 - 120	2	30
Styrene			20.0	18.1		ug/L		90	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*108*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*72 - 131*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

GC/MS VOA

Analysis Batch: 474301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143705-1	PDI-3-GW-80_85-20171024	Total/NA	Water	8260C	
MB 460-474301/8	Method Blank	Total/NA	Water	8260C	
LCS 460-474301/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-474301/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Client Sample ID: PDI-3-GW-80_85-20171024
Date Collected: 10/24/17 17:50
Date Received: 10/25/17 15:50

Lab Sample ID: 460-143705-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	474301	11/03/17 13:45	DAS	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
TestAmerica Job ID: 460-143705-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI

Protocol References:

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143705-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-143705-1	PDI-3-GW-80_85-20171024	Water	10/24/17 17:50	10/25/17 15:50

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/8/2017

Client Information	Sampler: Alison Reilly	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.1
Client Contact: Amy Picunas	Phone: 315-323-2496	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 6
Company: CDM Smith, Inc.		Analysis Requested		Job #: 143706
Address: 11 British American Blvd Suite 200	Due Date Requested:			Preservation Codes:
City: Latham	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			Other:
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N		
PDI-3-GW-80-85-20171024	10/24/17	1750	G	Water	N	X						1	
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-143705 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company
	10/24/17 12:35	CDM Smith		10/25/17 12:37	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	10/25/17 15:50	TA		10/25/17 15:50	TA GD
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		2.2 / 2.2 IR# 9 NOC

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 143706

Number of Coolers: 1 IR Gun # 4

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.2 °C	2.2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 10/28/17

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-143705-1

Login Number: 143705
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.2 ° C IR #9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-143763-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
11/8/2017 4:11:57 PM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 18
QC Sample Results 19
QC Association Summary 31
Lab Chronicle 33
Certification Summary 36
Method Summary 37
Sample Summary 38
Chain of Custody 39
Receipt Checklists 41

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Job ID: 460-143763-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-143763-1

Receipt
The samples were received on 10/26/2017 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Receipt Exceptions
Limited sample volume was provided for the following sample for the VOC analysis: TRIP BLANK-20171026 (460-143763-8). Only 1 container was received.

Per laboratory policy, the Trip Blank sample date/time was changed to reflect the latest sample date/time of the sampling event: TRIP BLANK-20171026 (460-143763-8).

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-474679 was outside the method criteria for the following analyte: Chloromethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The following samples are impacted: PDI-5-SO-67.5-20171025 (460-143763-1), PDI-5-SO-68-20171025 (460-143763-2), PDI-5-SO-73-20171025 (460-143763-3), PDI-5-SO-81-20171026 (460-143763-5) and (CCVIS 460-474679/2).

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-474601 was outside the method criteria for the following analyte: Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The following samples are impacted: PDI-5-GW-80-85-20171026 (460-143763-6), GW-FD-01-20171026 (460-143763-7) and (CCVIS 460-474601/2).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: PDI-5-GW-80-85-20171026 (460-143763-6) and GW-FD-01-20171026 (460-143763-7). Elevated reporting limits (RLs) are provided.

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

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: PDI-5-SO-67.5-20171025 — Lab Sample ID: 460-143763-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.34	J	0.83	0.19	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.46	J	0.83	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	29		0.83	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	100		0.83	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-5-SO-68-20171025 — Lab Sample ID: 460-143763-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.71	J	0.88	0.20	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.88		0.88	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	48		0.88	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	180		0.88	0.13	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-5-SO-73-20171025 — Lab Sample ID: 460-143763-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.2		0.89	0.21	ug/Kg	1	☼	8260C	Total/NA
Acetone	3.6	J	4.4	3.4	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.45	J	0.89	0.14	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	0.32	J	0.89	0.11	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.19	J	0.89	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	2.2		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	38		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-5-GW-72-75-20171026 — Lab Sample ID: 460-143763-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.7	J	5.0	2.2	ug/L	1		8260C	Total/NA
Acetone	25		5.0	1.1	ug/L	1		8260C	Total/NA
Benzene	0.093	J	1.0	0.090	ug/L	1		8260C	Total/NA
Carbon disulfide	0.73	J	1.0	0.22	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.1		1.0	0.26	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.4		1.0	0.12	ug/L	1		8260C	Total/NA
Toluene	0.64	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	23		1.0	0.22	ug/L	1		8260C	Total/NA
1,4-Dioxane	0.27	J	0.43	0.048	ug/L	1		8270D SIM	Total/NA

Client Sample ID: PDI-5-SO-81-20171026 — Lab Sample ID: 460-143763-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	4.2		1.1	0.26	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethane	0.60	J	1.1	0.23	ug/Kg	1	☼	8260C	Total/NA
Acetone	10		5.6	4.2	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.3		1.1	0.17	ug/Kg	1	☼	8260C	Total/NA
Methyl tert-butyl ether	1.1		1.1	0.14	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	1.2		1.1	0.18	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.31	J	1.1	0.16	ug/Kg	1	☼	8260C	Total/NA
Toluene	1.4		1.1	0.70	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		1.1	0.16	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: PDI-5-GW-80-85-20171026 — Lab Sample ID: 460-143763-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.8	J	5.0	1.4	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	9.1		5.0	1.3	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	0.70	J	5.0	0.65	ug/L	5		8260C	Total/NA
Tetrachloroethene	22		5.0	0.60	ug/L	5		8260C	Total/NA
Trichloroethene	640		5.0	1.1	ug/L	5		8260C	Total/NA
1,4-Dioxane	0.69		0.42	0.046	ug/L	1		8270D SIM	Total/NA

Client Sample ID: GW-FD-01-20171026 — Lab Sample ID: 460-143763-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.3	J	5.0	1.4	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	9.0		5.0	1.3	ug/L	5		8260C	Total/NA
Methyl tert-butyl ether	0.72	J	5.0	0.65	ug/L	5		8260C	Total/NA
Tetrachloroethene	23		5.0	0.60	ug/L	5		8260C	Total/NA
Trichloroethene	640		5.0	1.1	ug/L	5		8260C	Total/NA
1,4-Dioxane	0.58		0.44	0.049	ug/L	1		8270D SIM	Total/NA

Client Sample ID: TRIP BLANK-20171026 — Lab Sample ID: 460-143763-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	2.0	J	5.0	1.1	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-5-SO-67.5-20171025
Date Collected: 10/25/17 15:50
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-1
Matrix: Solid
Percent Solids: 81.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.34**	**J**	0.83	0.19	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,1,2,2-Tetrachloroethane	ND		0.83	0.18	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.83	0.25	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,1,2-Trichloroethane	ND		0.83	0.15	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,1-Dichloroethane	ND		0.83	0.17	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,1-Dichloroethene	ND		0.83	0.19	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2,4-Trichlorobenzene	ND		0.83	0.077	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2-Dibromo-3-Chloropropane	ND		0.83	0.38	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2-Dichlorobenzene	ND		0.83	0.12	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2-Dichloroethane	ND		0.83	0.25	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2-Dichloropropane	ND		0.83	0.35	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,3-Dichlorobenzene	ND		0.83	0.13	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,4-Dichlorobenzene	ND		0.83	0.083	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
2-Butanone (MEK)	ND		4.2	0.92	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
2-Hexanone	ND		4.2	0.65	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	0.55	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Acetone	ND		4.2	3.2	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Benzene	ND		0.83	0.21	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Bromoform	ND		0.83	0.35	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Bromomethane	ND		0.83	0.39	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Carbon disulfide	ND		0.83	0.22	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Carbon tetrachloride	ND		0.83	0.15	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Chlorobenzene	ND		0.83	0.15	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Dibromochloromethane	ND		0.83	0.16	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Chloroethane	ND		0.83	0.43	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Chloroform	ND		0.83	0.27	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Chloromethane	ND		0.83	0.36	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
cis-1,2-Dichloroethene	**0.46**	**J**	0.83	0.13	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Cyclohexane	ND		0.83	0.18	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Bromodichloromethane	ND		0.83	0.21	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Dichlorodifluoromethane	ND		0.83	0.28	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Ethylbenzene	ND		0.83	0.17	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
1,2-Dibromoethane	ND		0.83	0.15	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Isopropylbenzene	ND		0.83	0.10	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Methyl acetate	ND		4.2	3.6	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Methyl tert-butyl ether	ND		0.83	0.10	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Methylcyclohexane	ND		0.83	0.13	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Methylene Chloride	ND		0.83	0.14	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Tetrachloroethene	**29**		0.83	0.12	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Toluene	ND		0.83	0.52	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
trans-1,2-Dichloroethene	ND		0.83	0.20	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
trans-1,3-Dichloropropene	ND		0.83	0.22	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Trichloroethene	**100**		0.83	0.12	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Trichlorofluoromethane	ND		0.83	0.34	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Vinyl chloride	ND		0.83	0.45	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Xylenes, Total	ND		1.7	0.21	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
cis-1,3-Dichloropropene	ND		0.83	0.23	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1
Styrene	ND		0.83	0.10	ug/Kg	☼	10/27/17 08:22	11/05/17 02:12	1

Client Sample ID: PDI-5-SO-67.5-20171025

Lab Sample ID: 460-143763-1

Date Collected: 10/25/17 15:50
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 81.0

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*78 - 135*	*10/27/17 08:22*	*11/05/17 02:12*	*1*
4-Bromofluorobenzene	*108*		*67 - 126*	*10/27/17 08:22*	*11/05/17 02:12*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*10/27/17 08:22*	*11/05/17 02:12*	*1*
Dibromofluoromethane (Surr)	*119*		*61 - 149*	*10/27/17 08:22*	*11/05/17 02:12*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**19.0**		1.0	1.0	%			10/30/17 09:41	1
Percent Solids	**81.0**		1.0	1.0	%			10/30/17 09:41	1

Client Sample ID: PDI-5-SO-68-20171025

Lab Sample ID: 460-143763-2

Date Collected: 10/25/17 15:55
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 78.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.71**	**J**	0.88	0.20	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,1,2,2-Tetrachloroethane	ND		0.88	0.19	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.88	0.26	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,1,2-Trichloroethane	ND		0.88	0.16	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,1-Dichloroethane	ND		0.88	0.18	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,1-Dichloroethene	ND		0.88	0.20	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2,4-Trichlorobenzene	ND		0.88	0.081	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2-Dibromo-3-Chloropropane	ND		0.88	0.40	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2-Dichlorobenzene	ND		0.88	0.13	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2-Dichloroethane	ND		0.88	0.26	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2-Dichloropropane	ND		0.88	0.37	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,3-Dichlorobenzene	ND		0.88	0.14	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,4-Dichlorobenzene	ND		0.88	0.088	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
2-Butanone (MEK)	ND		4.4	0.97	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
2-Hexanone	ND		4.4	0.68	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	0.58	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Acetone	ND		4.4	3.3	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Benzene	ND		0.88	0.23	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Bromoform	ND		0.88	0.37	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Bromomethane	ND		0.88	0.41	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Carbon disulfide	ND		0.88	0.23	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Carbon tetrachloride	ND		0.88	0.16	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Chlorobenzene	ND		0.88	0.15	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Dibromochloromethane	ND		0.88	0.17	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Chloroethane	ND		0.88	0.46	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Chloroform	ND		0.88	0.28	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Chloromethane	ND		0.88	0.38	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
cis-1,2-Dichloroethene	**0.88**		0.88	0.13	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Cyclohexane	ND		0.88	0.19	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Bromodichloromethane	ND		0.88	0.22	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Dichlorodifluoromethane	ND		0.88	0.30	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Ethylbenzene	ND		0.88	0.17	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
1,2-Dibromoethane	ND		0.88	0.16	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Isopropylbenzene	ND		0.88	0.11	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1

Client Sample ID: PDI-5-SO-68-20171025

Lab Sample ID: 460-143763-2
Date Collected: 10/25/17 15:55
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 78.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		4.4	3.8	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Methyl tert-butyl ether	ND		0.88	0.11	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Methylcyclohexane	ND		0.88	0.14	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Methylene Chloride	ND		0.88	0.14	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Tetrachloroethene	**48**		0.88	0.13	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Toluene	ND		0.88	0.55	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
trans-1,2-Dichloroethene	ND		0.88	0.22	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
trans-1,3-Dichloropropene	ND		0.88	0.23	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Trichloroethene	**180**		0.88	0.13	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Trichlorofluoromethane	ND		0.88	0.36	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Vinyl chloride	ND		0.88	0.48	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Xylenes, Total	ND		1.8	0.22	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
cis-1,3-Dichloropropene	ND		0.88	0.24	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1
Styrene	ND		0.88	0.11	ug/Kg	☼	10/27/17 08:23	11/05/17 03:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*78 - 135*	*10/27/17 08:23*	*11/05/17 03:52*	*1*
4-Bromofluorobenzene	*108*		*67 - 126*	*10/27/17 08:23*	*11/05/17 03:52*	*1*
Toluene-d8 (Surr)	*99*		*73 - 121*	*10/27/17 08:23*	*11/05/17 03:52*	*1*
Dibromofluoromethane (Surr)	*118*		*61 - 149*	*10/27/17 08:23*	*11/05/17 03:52*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.8**		1.0	1.0	%			10/30/17 09:41	1
Percent Solids	**78.2**		1.0	1.0	%			10/30/17 09:41	1

Client Sample ID: PDI-5-SO-73-20171025

Lab Sample ID: 460-143763-3
Date Collected: 10/25/17 16:10
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 75.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.2**		0.89	0.21	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,1,2,2-Tetrachloroethane	ND		0.89	0.19	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.89	0.27	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,1,2-Trichloroethane	ND		0.89	0.16	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,1-Dichloroethane	ND		0.89	0.18	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,1-Dichloroethene	ND		0.89	0.20	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2,4-Trichlorobenzene	ND		0.89	0.082	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2-Dibromo-3-Chloropropane	ND		0.89	0.41	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2-Dichloroethane	ND		0.89	0.26	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2-Dichloropropane	ND		0.89	0.38	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,3-Dichlorobenzene	ND		0.89	0.14	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,4-Dichlorobenzene	ND		0.89	0.089	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
2-Butanone (MEK)	ND		4.4	0.99	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
2-Hexanone	ND		4.4	0.69	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	0.59	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Acetone	**3.6**	**J**	4.4	3.4	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Benzene	ND		0.89	0.23	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1

Client Sample ID: PDI-5-SO-73-20171025

Lab Sample ID: 460-143763-3
Date Collected: 10/25/17 16:10
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 75.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		0.89	0.38	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Bromomethane	ND		0.89	0.42	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Carbon disulfide	ND		0.89	0.24	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Carbon tetrachloride	ND		0.89	0.16	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Chlorobenzene	ND		0.89	0.16	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Dibromochloromethane	ND		0.89	0.17	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Chloroethane	ND		0.89	0.46	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Chloroform	ND		0.89	0.28	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Chloromethane	ND		0.89	0.39	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
cis-1,2-Dichloroethene	**0.45**	**J**	0.89	0.14	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Cyclohexane	ND		0.89	0.20	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Bromodichloromethane	ND		0.89	0.23	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Dichlorodifluoromethane	ND		0.89	0.30	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Ethylbenzene	ND		0.89	0.18	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
1,2-Dibromoethane	ND		0.89	0.16	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Isopropylbenzene	ND		0.89	0.11	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Methyl acetate	ND		4.4	3.8	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Methyl tert-butyl ether	**0.32**	**J**	0.89	0.11	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Methylcyclohexane	ND		0.89	0.14	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Methylene Chloride	**0.19**	**J**	0.89	0.14	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Tetrachloroethene	**2.2**		0.89	0.13	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Toluene	ND		0.89	0.56	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
trans-1,2-Dichloroethene	ND		0.89	0.22	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
trans-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Trichloroethene	**38**		0.89	0.13	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Trichlorofluoromethane	ND		0.89	0.36	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Vinyl chloride	ND		0.89	0.49	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Xylenes, Total	ND		1.8	0.22	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
cis-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1
Styrene	ND		0.89	0.11	ug/Kg	☼	10/27/17 08:24	11/05/17 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 135*	*10/27/17 08:24*	*11/05/17 04:16*	*1*
4-Bromofluorobenzene	*104*		*67 - 126*	*10/27/17 08:24*	*11/05/17 04:16*	*1*
Toluene-d8 (Surr)	*101*		*73 - 121*	*10/27/17 08:24*	*11/05/17 04:16*	*1*
Dibromofluoromethane (Surr)	*123*		*61 - 149*	*10/27/17 08:24*	*11/05/17 04:16*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**24.8**		1.0	1.0	%			10/30/17 09:41	1
Percent Solids	**75.2**		1.0	1.0	%			10/30/17 09:41	1

Client Sample ID: PDI-5-GW-72-75-20171026

Lab Sample ID: 460-143763-4
Date Collected: 10/26/17 09:25
Matrix: Water
Date Received: 10/26/17 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/04/17 05:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/04/17 05:25	1

Client Sample ID: PDI-5-GW-72-75-20171026
Date Collected: 10/26/17 09:25
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/04/17 05:25	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/04/17 05:25	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/04/17 05:25	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/04/17 05:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/04/17 05:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/04/17 05:25	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/04/17 05:25	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/04/17 05:25	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/04/17 05:25	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/04/17 05:25	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/04/17 05:25	1
2-Butanone (MEK)	**4.7**	**J**	5.0	2.2	ug/L			11/04/17 05:25	1
2-Hexanone	ND		5.0	0.72	ug/L			11/04/17 05:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/04/17 05:25	1
Acetone	**25**		5.0	1.1	ug/L			11/04/17 05:25	1
Benzene	**0.093**	**J**	1.0	0.090	ug/L			11/04/17 05:25	1
Bromoform	ND		1.0	0.18	ug/L			11/04/17 05:25	1
Bromomethane	ND		1.0	0.18	ug/L			11/04/17 05:25	1
Carbon disulfide	**0.73**	**J**	1.0	0.22	ug/L			11/04/17 05:25	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/04/17 05:25	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/04/17 05:25	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/04/17 05:25	1
Chloroethane	ND		1.0	0.37	ug/L			11/04/17 05:25	1
Chloroform	ND		1.0	0.22	ug/L			11/04/17 05:25	1
Chloromethane	ND		1.0	0.22	ug/L			11/04/17 05:25	1
cis-1,2-Dichloroethene	**1.1**		1.0	0.26	ug/L			11/04/17 05:25	1
Cyclohexane	ND		1.0	0.26	ug/L			11/04/17 05:25	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/04/17 05:25	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/04/17 05:25	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/04/17 05:25	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/04/17 05:25	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/04/17 05:25	1
Methyl acetate	ND		5.0	0.58	ug/L			11/04/17 05:25	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/04/17 05:25	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/04/17 05:25	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/04/17 05:25	1
Tetrachloroethene	**1.4**		1.0	0.12	ug/L			11/04/17 05:25	1
Toluene	**0.64**	**J**	1.0	0.25	ug/L			11/04/17 05:25	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/04/17 05:25	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/04/17 05:25	1
Trichloroethene	**23**		1.0	0.22	ug/L			11/04/17 05:25	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/04/17 05:25	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/04/17 05:25	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/04/17 05:25	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/04/17 05:25	1
Styrene	ND		1.0	0.17	ug/L			11/04/17 05:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*74 - 132*		*11/04/17 05:25*	*1*
4-Bromofluorobenzene	*93*		*77 - 124*		*11/04/17 05:25*	*1*

Client Sample ID: PDI-5-GW-72-75-20171026

Lab Sample ID: 460-143763-4
Matrix: Water
Date Collected: 10/26/17 09:25
Date Received: 10/26/17 18:00

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/04/17 05:25*	*1*
Dibromofluoromethane (Surr)	*117*		*72 - 131*		*11/04/17 05:25*	*1*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.27**	**J**	0.43	0.048	ug/L		10/27/17 09:47	10/28/17 05:11	1

Client Sample ID: PDI-5-SO-81-20171026

Lab Sample ID: 460-143763-5
Matrix: Solid
Date Collected: 10/26/17 10:45
Date Received: 10/26/17 18:00
Percent Solids: 73.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**4.2**		1.1	0.26	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,1,2,2-Tetrachloroethane	ND		1.1	0.24	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.1	0.33	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,1,2-Trichloroethane	ND		1.1	0.20	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,1-Dichloroethane	**0.60**	**J**	1.1	0.23	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,1-Dichloroethene	ND		1.1	0.25	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2,4-Trichlorobenzene	ND		1.1	0.10	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2-Dibromo-3-Chloropropane	ND		1.1	0.51	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2-Dichlorobenzene	ND		1.1	0.16	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2-Dichloroethane	ND		1.1	0.33	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2-Dichloropropane	ND		1.1	0.47	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,3-Dichlorobenzene	ND		1.1	0.18	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,4-Dichlorobenzene	ND		1.1	0.11	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
2-Butanone (MEK)	ND		5.6	1.2	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
2-Hexanone	ND		5.6	0.87	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
4-Methyl-2-pentanone (MIBK)	ND		5.6	0.74	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Acetone	**10**		5.6	4.2	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Benzene	ND		1.1	0.29	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Bromoform	ND		1.1	0.47	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Bromomethane	ND		1.1	0.53	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Carbon disulfide	ND		1.1	0.30	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Carbon tetrachloride	ND		1.1	0.20	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Chlorobenzene	ND		1.1	0.20	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Dibromochloromethane	ND		1.1	0.22	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Chloroethane	ND		1.1	0.58	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Chloroform	ND		1.1	0.35	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Chloromethane	ND		1.1	0.48	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
cis-1,2-Dichloroethene	**1.3**		1.1	0.17	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Cyclohexane	ND		1.1	0.25	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Bromodichloromethane	ND		1.1	0.29	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Dichlorodifluoromethane	ND		1.1	0.38	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Ethylbenzene	ND		1.1	0.22	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
1,2-Dibromoethane	ND		1.1	0.20	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Isopropylbenzene	ND		1.1	0.14	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Methyl acetate	ND		5.6	4.8	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Methyl tert-butyl ether	**1.1**		1.1	0.14	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1

Client Sample ID: PDI-5-SO-81-20171026

Lab Sample ID: 460-143763-5

Date Collected: 10/26/17 10:45
Matrix: Solid
Date Received: 10/26/17 18:00
Percent Solids: 73.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	ND		1.1	0.18	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Methylene Chloride	**1.2**		1.1	0.18	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Tetrachloroethene	**0.31**	**J**	1.1	0.16	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Toluene	**1.4**		1.1	0.70	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
trans-1,2-Dichloroethene	ND		1.1	0.27	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
trans-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Trichloroethene	**29**		1.1	0.16	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Trichlorofluoromethane	ND		1.1	0.45	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Vinyl chloride	ND		1.1	0.61	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Xylenes, Total	ND		2.2	0.28	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
cis-1,3-Dichloropropene	ND		1.1	0.30	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1
Styrene	ND		1.1	0.14	ug/Kg	☼	10/27/17 08:25	11/05/17 04:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*78 - 135*	*10/27/17 08:25*	*11/05/17 04:40*	*1*
4-Bromofluorobenzene	*86*		*67 - 126*	*10/27/17 08:25*	*11/05/17 04:40*	*1*
Toluene-d8 (Surr)	*97*		*73 - 121*	*10/27/17 08:25*	*11/05/17 04:40*	*1*
Dibromofluoromethane (Surr)	*113*		*61 - 149*	*10/27/17 08:25*	*11/05/17 04:40*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**26.8**		1.0	1.0	%			10/30/17 09:41	1
Percent Solids	**73.2**		1.0	1.0	%			10/30/17 09:41	1

Client Sample ID: PDI-5-GW-80-85-20171026

Lab Sample ID: 460-143763-6

Date Collected: 10/26/17 11:55
Matrix: Water
Date Received: 10/26/17 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.8**	**J**	5.0	1.4	ug/L			11/04/17 15:04	5
1,1,2,2-Tetrachloroethane	ND		5.0	0.95	ug/L			11/04/17 15:04	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.7	ug/L			11/04/17 15:04	5
1,1,2-Trichloroethane	ND		5.0	0.40	ug/L			11/04/17 15:04	5
1,1-Dichloroethane	ND		5.0	1.2	ug/L			11/04/17 15:04	5
1,1-Dichloroethene	ND		5.0	1.7	ug/L			11/04/17 15:04	5
1,2,4-Trichlorobenzene	ND		5.0	1.4	ug/L			11/04/17 15:04	5
1,2-Dibromo-3-Chloropropane	ND		5.0	1.2	ug/L			11/04/17 15:04	5
1,2-Dichlorobenzene	ND		5.0	1.1	ug/L			11/04/17 15:04	5
1,2-Dichloroethane	ND		5.0	1.3	ug/L			11/04/17 15:04	5
1,2-Dichloropropane	ND		5.0	0.90	ug/L			11/04/17 15:04	5
1,3-Dichlorobenzene	ND		5.0	1.7	ug/L			11/04/17 15:04	5
1,4-Dichlorobenzene	ND		5.0	1.7	ug/L			11/04/17 15:04	5
2-Butanone (MEK)	ND		25	11	ug/L			11/04/17 15:04	5
2-Hexanone	ND		25	3.6	ug/L			11/04/17 15:04	5
4-Methyl-2-pentanone (MIBK)	ND		25	3.2	ug/L			11/04/17 15:04	5
Acetone	ND		25	5.4	ug/L			11/04/17 15:04	5
Benzene	ND		5.0	0.45	ug/L			11/04/17 15:04	5
Bromoform	ND		5.0	0.90	ug/L			11/04/17 15:04	5
Bromomethane	ND		5.0	0.90	ug/L			11/04/17 15:04	5

Client Sample ID: PDI-5-GW-80-85-20171026

Lab Sample ID: 460-143763-6

Date Collected: 10/26/17 11:55

Matrix: Water

Date Received: 10/26/17 18:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	1.1	ug/L			11/04/17 15:04	5
Carbon tetrachloride	ND		5.0	1.7	ug/L			11/04/17 15:04	5
Chlorobenzene	ND		5.0	1.2	ug/L			11/04/17 15:04	5
Dibromochloromethane	ND		5.0	1.1	ug/L			11/04/17 15:04	5
Chloroethane	ND		5.0	1.9	ug/L			11/04/17 15:04	5
Chloroform	ND		5.0	1.1	ug/L			11/04/17 15:04	5
Chloromethane	ND		5.0	1.1	ug/L			11/04/17 15:04	5
cis-1,2-Dichloroethene	**9.1**		5.0	1.3	ug/L			11/04/17 15:04	5
Cyclohexane	ND		5.0	1.3	ug/L			11/04/17 15:04	5
Bromodichloromethane	ND		5.0	0.75	ug/L			11/04/17 15:04	5
Dichlorodifluoromethane	ND		5.0	0.70	ug/L			11/04/17 15:04	5
Ethylbenzene	ND		5.0	1.5	ug/L			11/04/17 15:04	5
1,2-Dibromoethane	ND		5.0	0.95	ug/L			11/04/17 15:04	5
Isopropylbenzene	ND		5.0	1.6	ug/L			11/04/17 15:04	5
Methyl acetate	ND		25	2.9	ug/L			11/04/17 15:04	5
Methyl tert-butyl ether	**0.70**	**J**	5.0	0.65	ug/L			11/04/17 15:04	5
Methylcyclohexane	ND		5.0	1.1	ug/L			11/04/17 15:04	5
Methylene Chloride	ND		5.0	1.1	ug/L			11/04/17 15:04	5
Tetrachloroethene	**22**		5.0	0.60	ug/L			11/04/17 15:04	5
Toluene	ND		5.0	1.3	ug/L			11/04/17 15:04	5
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			11/04/17 15:04	5
trans-1,3-Dichloropropene	ND		5.0	0.95	ug/L			11/04/17 15:04	5
Trichloroethene	**640**		5.0	1.1	ug/L			11/04/17 15:04	5
Trichlorofluoromethane	ND		5.0	0.75	ug/L			11/04/17 15:04	5
Vinyl chloride	ND		5.0	0.30	ug/L			11/04/17 15:04	5
Xylenes, Total	ND		10	1.4	ug/L			11/04/17 15:04	5
cis-1,3-Dichloropropene	ND		5.0	0.80	ug/L			11/04/17 15:04	5
Styrene	ND		5.0	0.85	ug/L			11/04/17 15:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*74 - 132*		*11/04/17 15:04*	*5*
4-Bromofluorobenzene	*93*		*77 - 124*		*11/04/17 15:04*	*5*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/04/17 15:04*	*5*
Dibromofluoromethane (Surr)	*118*		*72 - 131*		*11/04/17 15:04*	*5*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**0.69**		0.42	0.046	ug/L		10/27/17 09:47	10/28/17 05:33	1

Client Sample ID: GW-FD-01-20171026

Lab Sample ID: 460-143763-7

Date Collected: 10/26/17 12:00

Matrix: Water

Date Received: 10/26/17 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.3**	**J**	5.0	1.4	ug/L			11/04/17 15:31	5
1,1,2,2-Tetrachloroethane	ND		5.0	0.95	ug/L			11/04/17 15:31	5
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.7	ug/L			11/04/17 15:31	5
1,1,2-Trichloroethane	ND		5.0	0.40	ug/L			11/04/17 15:31	5
1,1-Dichloroethane	ND		5.0	1.2	ug/L			11/04/17 15:31	5

Client Sample ID: GW-FD-01-20171026
Date Collected: 10/26/17 12:00
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	1.7	ug/L			11/04/17 15:31	5
1,2,4-Trichlorobenzene	ND		5.0	1.4	ug/L			11/04/17 15:31	5
1,2-Dibromo-3-Chloropropane	ND		5.0	1.2	ug/L			11/04/17 15:31	5
1,2-Dichlorobenzene	ND		5.0	1.1	ug/L			11/04/17 15:31	5
1,2-Dichloroethane	ND		5.0	1.3	ug/L			11/04/17 15:31	5
1,2-Dichloropropane	ND		5.0	0.90	ug/L			11/04/17 15:31	5
1,3-Dichlorobenzene	ND		5.0	1.7	ug/L			11/04/17 15:31	5
1,4-Dichlorobenzene	ND		5.0	1.7	ug/L			11/04/17 15:31	5
2-Butanone (MEK)	ND		25	11	ug/L			11/04/17 15:31	5
2-Hexanone	ND		25	3.6	ug/L			11/04/17 15:31	5
4-Methyl-2-pentanone (MIBK)	ND		25	3.2	ug/L			11/04/17 15:31	5
Acetone	ND		25	5.4	ug/L			11/04/17 15:31	5
Benzene	ND		5.0	0.45	ug/L			11/04/17 15:31	5
Bromoform	ND		5.0	0.90	ug/L			11/04/17 15:31	5
Bromomethane	ND		5.0	0.90	ug/L			11/04/17 15:31	5
Carbon disulfide	ND		5.0	1.1	ug/L			11/04/17 15:31	5
Carbon tetrachloride	ND		5.0	1.7	ug/L			11/04/17 15:31	5
Chlorobenzene	ND		5.0	1.2	ug/L			11/04/17 15:31	5
Dibromochloromethane	ND		5.0	1.1	ug/L			11/04/17 15:31	5
Chloroethane	ND		5.0	1.9	ug/L			11/04/17 15:31	5
Chloroform	ND		5.0	1.1	ug/L			11/04/17 15:31	5
Chloromethane	ND		5.0	1.1	ug/L			11/04/17 15:31	5
cis-1,2-Dichloroethene	**9.0**		5.0	1.3	ug/L			11/04/17 15:31	5
Cyclohexane	ND		5.0	1.3	ug/L			11/04/17 15:31	5
Bromodichloromethane	ND		5.0	0.75	ug/L			11/04/17 15:31	5
Dichlorodifluoromethane	ND		5.0	0.70	ug/L			11/04/17 15:31	5
Ethylbenzene	ND		5.0	1.5	ug/L			11/04/17 15:31	5
1,2-Dibromoethane	ND		5.0	0.95	ug/L			11/04/17 15:31	5
Isopropylbenzene	ND		5.0	1.6	ug/L			11/04/17 15:31	5
Methyl acetate	ND		25	2.9	ug/L			11/04/17 15:31	5
Methyl tert-butyl ether	**0.72**	**J**	5.0	0.65	ug/L			11/04/17 15:31	5
Methylcyclohexane	ND		5.0	1.1	ug/L			11/04/17 15:31	5
Methylene Chloride	ND		5.0	1.1	ug/L			11/04/17 15:31	5
Tetrachloroethene	**23**		5.0	0.60	ug/L			11/04/17 15:31	5
Toluene	ND		5.0	1.3	ug/L			11/04/17 15:31	5
trans-1,2-Dichloroethene	ND		5.0	0.90	ug/L			11/04/17 15:31	5
trans-1,3-Dichloropropene	ND		5.0	0.95	ug/L			11/04/17 15:31	5
Trichloroethene	**640**		5.0	1.1	ug/L			11/04/17 15:31	5
Trichlorofluoromethane	ND		5.0	0.75	ug/L			11/04/17 15:31	5
Vinyl chloride	ND		5.0	0.30	ug/L			11/04/17 15:31	5
Xylenes, Total	ND		10	1.4	ug/L			11/04/17 15:31	5
cis-1,3-Dichloropropene	ND		5.0	0.80	ug/L			11/04/17 15:31	5
Styrene	ND		5.0	0.85	ug/L			11/04/17 15:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*74 - 132*		*11/04/17 15:31*	*5*
4-Bromofluorobenzene	*90*		*77 - 124*		*11/04/17 15:31*	*5*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/04/17 15:31*	*5*
Dibromofluoromethane (Surr)	*117*		*72 - 131*		*11/04/17 15:31*	*5*

Client Sample ID: GW-FD-01-20171026

Lab Sample ID: 460-143763-7

Date Collected: 10/26/17 12:00
Matrix: Water
Date Received: 10/26/17 18:00

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.58		0.44	0.049	ug/L		10/27/17 09:47	10/28/17 05:56	1

Client Sample ID: TRIP BLANK-20171026

Lab Sample ID: 460-143763-8

Date Collected: 10/26/17 12:00
Matrix: Water
Date Received: 10/26/17 18:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/03/17 23:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/03/17 23:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/03/17 23:38	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/03/17 23:38	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/03/17 23:38	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/03/17 23:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/03/17 23:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/03/17 23:38	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/03/17 23:38	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/03/17 23:38	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/03/17 23:38	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 23:38	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 23:38	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/03/17 23:38	1
2-Hexanone	ND		5.0	0.72	ug/L			11/03/17 23:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/03/17 23:38	1
Acetone	2.0	J	5.0	1.1	ug/L			11/03/17 23:38	1
Benzene	ND		1.0	0.090	ug/L			11/03/17 23:38	1
Bromoform	ND		1.0	0.18	ug/L			11/03/17 23:38	1
Bromomethane	ND		1.0	0.18	ug/L			11/03/17 23:38	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/03/17 23:38	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/03/17 23:38	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/03/17 23:38	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/03/17 23:38	1
Chloroethane	ND		1.0	0.37	ug/L			11/03/17 23:38	1
Chloroform	ND		1.0	0.22	ug/L			11/03/17 23:38	1
Chloromethane	ND		1.0	0.22	ug/L			11/03/17 23:38	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/03/17 23:38	1
Cyclohexane	ND		1.0	0.26	ug/L			11/03/17 23:38	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/03/17 23:38	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/03/17 23:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/03/17 23:38	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/03/17 23:38	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/03/17 23:38	1
Methyl acetate	ND		5.0	0.58	ug/L			11/03/17 23:38	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/03/17 23:38	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/03/17 23:38	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/03/17 23:38	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/03/17 23:38	1
Toluene	ND		1.0	0.25	ug/L			11/03/17 23:38	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/03/17 23:38	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/03/17 23:38	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: TRIP BLANK-20171026
Date Collected: 10/26/17 12:00
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	ND		1.0	0.22	ug/L			11/03/17 23:38	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/03/17 23:38	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/03/17 23:38	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/03/17 23:38	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/17 23:38	1
Styrene	ND		1.0	0.17	ug/L			11/03/17 23:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*74 - 132*		*11/03/17 23:38*	*1*
4-Bromofluorobenzene	*93*		*77 - 124*		*11/03/17 23:38*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*11/03/17 23:38*	*1*
Dibromofluoromethane (Surr)	*118*		*72 - 131*		*11/03/17 23:38*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-143763-1	PDI-5-SO-67.5-20171025	101	108	100	119
460-143763-2	PDI-5-SO-68-20171025	101	108	99	118
460-143763-3	PDI-5-SO-73-20171025	100	104	101	123
460-143763-5	PDI-5-SO-81-20171026	93	86	97	113
LCS 460-474679/3	Lab Control Sample	90	106	100	108
LCSD 460-474679/4	Lab Control Sample Dup	87	104	98	105
MB 460-474679/7	Method Blank	90	100	93	107

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-143763-4	PDI-5-GW-72-75-20171026	116	93	107	117
460-143763-6	PDI-5-GW-80-85-20171026	118	93	108	118
460-143763-7	GW-FD-01-20171026	119	90	108	117
460-143763-8	TRIP BLANK-20171026	116	93	108	118
LCS 460-474513/3	Lab Control Sample	108	97	110	110
LCS 460-474601/3	Lab Control Sample	112	94	111	109
LCSD 460-474513/4	Lab Control Sample Dup	108	99	111	111
LCSD 460-474601/4	Lab Control Sample Dup	109	94	111	109
MB 460-474513/7	Method Blank	116	94	107	120
MB 460-474601/7	Method Blank	117	95	107	120

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-474513/7
Matrix: Water
Analysis Batch: 474513

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/03/17 23:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/03/17 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/03/17 23:11	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/03/17 23:11	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/03/17 23:11	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/03/17 23:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/03/17 23:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/03/17 23:11	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/03/17 23:11	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/03/17 23:11	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/03/17 23:11	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 23:11	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/03/17 23:11	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/03/17 23:11	1
2-Hexanone	ND		5.0	0.72	ug/L			11/03/17 23:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/03/17 23:11	1
Acetone	ND		5.0	1.1	ug/L			11/03/17 23:11	1
Benzene	ND		1.0	0.090	ug/L			11/03/17 23:11	1
Bromoform	ND		1.0	0.18	ug/L			11/03/17 23:11	1
Bromomethane	ND		1.0	0.18	ug/L			11/03/17 23:11	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/03/17 23:11	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/03/17 23:11	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/03/17 23:11	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/03/17 23:11	1
Chloroethane	ND		1.0	0.37	ug/L			11/03/17 23:11	1
Chloroform	ND		1.0	0.22	ug/L			11/03/17 23:11	1
Chloromethane	ND		1.0	0.22	ug/L			11/03/17 23:11	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/03/17 23:11	1
Cyclohexane	ND		1.0	0.26	ug/L			11/03/17 23:11	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/03/17 23:11	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/03/17 23:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/03/17 23:11	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/03/17 23:11	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/03/17 23:11	1
Methyl acetate	ND		5.0	0.58	ug/L			11/03/17 23:11	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/03/17 23:11	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/03/17 23:11	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/03/17 23:11	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/03/17 23:11	1
Toluene	ND		1.0	0.25	ug/L			11/03/17 23:11	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/03/17 23:11	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/03/17 23:11	1
Trichloroethene	ND		1.0	0.22	ug/L			11/03/17 23:11	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/03/17 23:11	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/03/17 23:11	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/03/17 23:11	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/03/17 23:11	1
Styrene	ND		1.0	0.17	ug/L			11/03/17 23:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*116*		*74 - 132*		*11/03/17 23:11*	*1*
4-Bromofluorobenzene	*94*		*77 - 124*		*11/03/17 23:11*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/03/17 23:11*	*1*
Dibromofluoromethane (Surr)	*120*		*72 - 131*		*11/03/17 23:11*	*1*

Lab Sample ID: LCS 460-474513/3
Matrix: Water
Analysis Batch: 474513

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.3		ug/L		107	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.5		ug/L		93	59 - 150
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	78 - 120
1,1-Dichloroethane	20.0	18.3		ug/L		91	77 - 123
1,1-Dichloroethene	20.0	17.1		ug/L		85	74 - 123
1,2,4-Trichlorobenzene	20.0	17.3		ug/L		86	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.6		ug/L		93	55 - 134
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	18.7		ug/L		94	76 - 121
1,2-Dichloropropane	20.0	19.3		ug/L		96	77 - 123
1,3-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
2-Butanone (MEK)	100	105		ug/L		105	64 - 120
2-Hexanone	100	91.0		ug/L		91	71 - 125
4-Methyl-2-pentanone (MIBK)	100	91.8		ug/L		92	78 - 124
Acetone	100	102		ug/L		102	39 - 150
Benzene	20.0	19.0		ug/L		95	77 - 121
Bromoform	20.0	19.0		ug/L		95	53 - 120
Bromomethane	20.0	12.2		ug/L		61	10 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Carbon tetrachloride	20.0	20.5		ug/L		102	70 - 132
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120
Dibromochloromethane	20.0	19.9		ug/L		100	73 - 120
Chloroethane	20.0	21.2		ug/L		106	52 - 150
Chloroform	20.0	19.7		ug/L		99	80 - 120
Chloromethane	20.0	16.0		ug/L		80	56 - 131
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120
Cyclohexane	20.0	16.9		ug/L		85	56 - 150
Bromodichloromethane	20.0	19.7		ug/L		98	76 - 120
Dichlorodifluoromethane	20.0	16.4		ug/L		82	50 - 131
Ethylbenzene	20.0	18.4		ug/L		92	80 - 120
1,2-Dibromoethane	20.0	19.9		ug/L		100	80 - 120
Isopropylbenzene	20.0	17.3		ug/L		86	80 - 123
Methyl acetate	100	85.7		ug/L		86	66 - 144
Methyl tert-butyl ether	20.0	17.8		ug/L		89	79 - 122
Methylcyclohexane	20.0	16.0		ug/L		80	61 - 145
Methylene Chloride	20.0	18.4		ug/L		92	77 - 123
Tetrachloroethene	20.0	18.9		ug/L		95	78 - 122
Toluene	20.0	19.2		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	79 - 120
trans-1,3-Dichloropropene	20.0	19.3		ug/L		96	76 - 120
Trichloroethene	20.0	17.7		ug/L		88	77 - 120

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

Lab Sample ID: LCS 460-474513/3
Matrix: Water
Analysis Batch: 474513

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	21.7		ug/L		108	71 - 143
Vinyl chloride	20.0	18.9		ug/L		94	62 - 138
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	77 - 120
Styrene	20.0	17.7		ug/L		89	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*
4-Bromofluorobenzene	*97*		*77 - 124*
Toluene-d8 (Surr)	*110*		*80 - 120*
Dibromofluoromethane (Surr)	*110*		*72 - 131*

Lab Sample ID: LCSD 460-474513/4
Matrix: Water
Analysis Batch: 474513

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.9		ug/L		105	75 - 125	6	30
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/L		107	74 - 120	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.0		ug/L		100	59 - 150	8	30
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	78 - 120	5	30
1,1-Dichloroethane	20.0	19.6		ug/L		98	77 - 123	7	30
1,1-Dichloroethene	20.0	19.1		ug/L		96	74 - 123	12	30
1,2,4-Trichlorobenzene	20.0	18.0		ug/L		90	80 - 124	4	30
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	55 - 134	3	30
1,2-Dichlorobenzene	20.0	21.3		ug/L		107	80 - 120	3	30
1,2-Dichloroethane	20.0	19.6		ug/L		98	76 - 121	4	30
1,2-Dichloropropane	20.0	20.6		ug/L		103	77 - 123	6	30
1,3-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120	6	30
1,4-Dichlorobenzene	20.0	20.9		ug/L		104	80 - 120	4	30
2-Butanone (MEK)	100	103		ug/L		103	64 - 120	2	30
2-Hexanone	100	91.5		ug/L		92	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)	100	93.2		ug/L		93	78 - 124	2	30
Acetone	100	106		ug/L		106	39 - 150	3	30
Benzene	20.0	20.5		ug/L		102	77 - 121	7	30
Bromoform	20.0	19.2		ug/L		96	53 - 120	1	30
Bromomethane	20.0	13.7		ug/L		68	10 - 150	11	30
Carbon disulfide	20.0	19.5		ug/L		97	69 - 133	8	30
Carbon tetrachloride	20.0	22.1		ug/L		110	70 - 132	7	30
Chlorobenzene	20.0	20.3		ug/L		101	80 - 120	5	30
Dibromochloromethane	20.0	21.5		ug/L		108	73 - 120	8	30
Chloroethane	20.0	23.0		ug/L		115	52 - 150	8	30
Chloroform	20.0	21.3		ug/L		106	80 - 120	7	30
Chloromethane	20.0	17.9		ug/L		89	56 - 131	11	30
cis-1,2-Dichloroethene	20.0	20.0		ug/L		100	80 - 120	5	30
Cyclohexane	20.0	17.8		ug/L		89	56 - 150	5	30
Bromodichloromethane	20.0	21.0		ug/L		105	76 - 120	6	30
Dichlorodifluoromethane	20.0	17.9		ug/L		89	50 - 131	9	30

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

Lab Sample ID: LCSD 460-474513/4
Matrix: Water
Analysis Batch: 474513

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	19.7		ug/L		99	80 - 120	7	30
1,2-Dibromoethane			20.0	21.4		ug/L		107	80 - 120	7	30
Isopropylbenzene			20.0	19.0		ug/L		95	80 - 123	10	30
Methyl acetate			100	88.4		ug/L		88	66 - 144	3	30
Methyl tert-butyl ether			20.0	19.6		ug/L		98	79 - 122	10	30
Methylcyclohexane			20.0	18.1		ug/L		91	61 - 145	13	30
Methylene Chloride			20.0	20.2		ug/L		101	77 - 123	9	30
Tetrachloroethene			20.0	20.6		ug/L		103	78 - 122	8	30
Toluene			20.0	20.7		ug/L		104	80 - 120	8	30
trans-1,2-Dichloroethene			20.0	20.6		ug/L		103	79 - 120	8	30
trans-1,3-Dichloropropene			20.0	19.9		ug/L		100	76 - 120	3	30
Trichloroethene			20.0	19.3		ug/L		97	77 - 120	9	30
Trichlorofluoromethane			20.0	23.1		ug/L		116	71 - 143	6	30
Vinyl chloride			20.0	21.1		ug/L		105	62 - 138	11	30
cis-1,3-Dichloropropene			20.0	21.0		ug/L		105	77 - 120	8	30
Styrene			20.0	19.4		ug/L		97	80 - 120	9	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*111*		*72 - 131*

Lab Sample ID: MB 460-474601/7
Matrix: Water
Analysis Batch: 474601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/04/17 12:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/04/17 12:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/04/17 12:11	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/04/17 12:11	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/04/17 12:11	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/04/17 12:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/04/17 12:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/04/17 12:11	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/04/17 12:11	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/04/17 12:11	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/04/17 12:11	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/04/17 12:11	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/04/17 12:11	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/04/17 12:11	1
2-Hexanone	ND		5.0	0.72	ug/L			11/04/17 12:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/04/17 12:11	1
Acetone	ND		5.0	1.1	ug/L			11/04/17 12:11	1
Benzene	ND		1.0	0.090	ug/L			11/04/17 12:11	1
Bromoform	ND		1.0	0.18	ug/L			11/04/17 12:11	1
Bromomethane	ND		1.0	0.18	ug/L			11/04/17 12:11	1

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

Lab Sample ID: MB 460-474601/7
Matrix: Water
Analysis Batch: 474601

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.22	ug/L			11/04/17 12:11	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/04/17 12:11	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/04/17 12:11	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/04/17 12:11	1
Chloroethane	ND		1.0	0.37	ug/L			11/04/17 12:11	1
Chloroform	ND		1.0	0.22	ug/L			11/04/17 12:11	1
Chloromethane	ND		1.0	0.22	ug/L			11/04/17 12:11	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/04/17 12:11	1
Cyclohexane	ND		1.0	0.26	ug/L			11/04/17 12:11	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/04/17 12:11	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/04/17 12:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/04/17 12:11	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/04/17 12:11	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/04/17 12:11	1
Methyl acetate	ND		5.0	0.58	ug/L			11/04/17 12:11	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/04/17 12:11	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/04/17 12:11	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/04/17 12:11	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/04/17 12:11	1
Toluene	ND		1.0	0.25	ug/L			11/04/17 12:11	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/04/17 12:11	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/04/17 12:11	1
Trichloroethene	ND		1.0	0.22	ug/L			11/04/17 12:11	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/04/17 12:11	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/04/17 12:11	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/04/17 12:11	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/04/17 12:11	1
Styrene	ND		1.0	0.17	ug/L			11/04/17 12:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*117*		*74 - 132*		*11/04/17 12:11*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*11/04/17 12:11*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*11/04/17 12:11*	*1*
Dibromofluoromethane (Surr)	*120*		*72 - 131*		*11/04/17 12:11*	*1*

Lab Sample ID: LCS 460-474601/3
Matrix: Water
Analysis Batch: 474601

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.2		ug/L		106	75 - 125
1,1,2,2-Tetrachloroethane	20.0	22.8		ug/L		114	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.3		ug/L		107	59 - 150
1,1,2-Trichloroethane	20.0	22.0		ug/L		110	78 - 120
1,1-Dichloroethane	20.0	19.6		ug/L		98	77 - 123
1,1-Dichloroethene	20.0	18.5		ug/L		93	74 - 123
1,2,4-Trichlorobenzene	20.0	18.3		ug/L		91	80 - 124

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

Lab Sample ID: LCS 460-474601/3
Matrix: Water
Analysis Batch: 474601

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/L		95	55 - 134
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,2-Dichloroethane	20.0	20.1		ug/L		100	76 - 121
1,2-Dichloropropane	20.0	20.3		ug/L		102	77 - 123
1,3-Dichlorobenzene	20.0	21.5		ug/L		108	80 - 120
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120
2-Butanone (MEK)	100	102		ug/L		102	64 - 120
2-Hexanone	100	91.0		ug/L		91	71 - 125
4-Methyl-2-pentanone (MIBK)	100	94.4		ug/L		94	78 - 124
Acetone	100	99.9		ug/L		100	39 - 150
Benzene	20.0	20.4		ug/L		102	77 - 121
Bromoform	20.0	18.5		ug/L		93	53 - 120
Bromomethane	20.0	11.5		ug/L		57	10 - 150
Carbon disulfide	20.0	19.3		ug/L		97	69 - 133
Carbon tetrachloride	20.0	22.2		ug/L		111	70 - 132
Chlorobenzene	20.0	19.9		ug/L		99	80 - 120
Dibromochloromethane	20.0	20.8		ug/L		104	73 - 120
Chloroethane	20.0	23.1		ug/L		116	52 - 150
Chloroform	20.0	21.1		ug/L		106	80 - 120
Chloromethane	20.0	17.2		ug/L		86	56 - 131
cis-1,2-Dichloroethene	20.0	20.1		ug/L		101	80 - 120
Cyclohexane	20.0	20.0		ug/L		100	56 - 150
Bromodichloromethane	20.0	20.8		ug/L		104	76 - 120
Dichlorodifluoromethane	20.0	18.3		ug/L		91	50 - 131
Ethylbenzene	20.0	19.4		ug/L		97	80 - 120
1,2-Dibromoethane	20.0	21.2		ug/L		106	80 - 120
Isopropylbenzene	20.0	18.6		ug/L		93	80 - 123
Methyl acetate	100	94.4		ug/L		94	66 - 144
Methyl tert-butyl ether	20.0	19.4		ug/L		97	79 - 122
Methylcyclohexane	20.0	19.2		ug/L		96	61 - 145
Methylene Chloride	20.0	20.1		ug/L		100	77 - 123
Tetrachloroethene	20.0	20.1		ug/L		100	78 - 122
Toluene	20.0	20.6		ug/L		103	80 - 120
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	79 - 120
trans-1,3-Dichloropropene	20.0	20.3		ug/L		101	76 - 120
Trichloroethene	20.0	18.1		ug/L		90	77 - 120
Trichlorofluoromethane	20.0	23.6		ug/L		118	71 - 143
Vinyl chloride	20.0	20.4		ug/L		102	62 - 138
cis-1,3-Dichloropropene	20.0	21.0		ug/L		105	77 - 120
Styrene	20.0	18.5		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*
4-Bromofluorobenzene	*94*		*77 - 124*
Toluene-d8 (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*72 - 131*

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

Lab Sample ID: LCSD 460-474601/4
Matrix: Water
Analysis Batch: 474601

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	75 - 125	7	30
1,1,2,2-Tetrachloroethane	20.0	22.8		ug/L		114	74 - 120	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.7		ug/L		99	59 - 150	8	30
1,1,2-Trichloroethane	20.0	21.4		ug/L		107	78 - 120	3	30
1,1-Dichloroethane	20.0	19.0		ug/L		95	77 - 123	3	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	74 - 123	2	30
1,2,4-Trichlorobenzene	20.0	18.4		ug/L		92	80 - 124	1	30
1,2-Dibromo-3-Chloropropane	20.0	20.6		ug/L		103	55 - 134	8	30
1,2-Dichlorobenzene	20.0	21.1		ug/L		106	80 - 120	3	30
1,2-Dichloroethane	20.0	19.8		ug/L		99	76 - 121	1	30
1,2-Dichloropropane	20.0	20.5		ug/L		102	77 - 123	1	30
1,3-Dichlorobenzene	20.0	20.7		ug/L		104	80 - 120	4	30
1,4-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120	3	30
2-Butanone (MEK)	100	96.5		ug/L		96	64 - 120	5	30
2-Hexanone	100	91.6		ug/L		92	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)	100	92.9		ug/L		93	78 - 124	2	30
Acetone	100	99.1		ug/L		99	39 - 150	1	30
Benzene	20.0	19.4		ug/L		97	77 - 121	5	30
Bromoform	20.0	19.1		ug/L		96	53 - 120	3	30
Bromomethane	20.0	11.9		ug/L		60	10 - 150	4	30
Carbon disulfide	20.0	18.3		ug/L		91	69 - 133	5	30
Carbon tetrachloride	20.0	21.0		ug/L		105	70 - 132	6	30
Chlorobenzene	20.0	19.1		ug/L		95	80 - 120	4	30
Dibromochloromethane	20.0	20.4		ug/L		102	73 - 120	2	30
Chloroethane	20.0	20.6		ug/L		103	52 - 150	11	30
Chloroform	20.0	20.3		ug/L		101	80 - 120	4	30
Chloromethane	20.0	17.1		ug/L		85	56 - 131	1	30
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	80 - 120	8	30
Cyclohexane	20.0	17.9		ug/L		89	56 - 150	11	30
Bromodichloromethane	20.0	20.4		ug/L		102	76 - 120	2	30
Dichlorodifluoromethane	20.0	17.5		ug/L		87	50 - 131	5	30
Ethylbenzene	20.0	18.5		ug/L		93	80 - 120	5	30
1,2-Dibromoethane	20.0	20.8		ug/L		104	80 - 120	2	30
Isopropylbenzene	20.0	17.7		ug/L		89	80 - 123	5	30
Methyl acetate	100	94.5		ug/L		94	66 - 144	0	30
Methyl tert-butyl ether	20.0	20.0		ug/L		100	79 - 122	3	30
Methylcyclohexane	20.0	18.9		ug/L		94	61 - 145	2	30
Methylene Chloride	20.0	19.2		ug/L		96	77 - 123	4	30
Tetrachloroethene	20.0	18.7		ug/L		94	78 - 122	7	30
Toluene	20.0	19.8		ug/L		99	80 - 120	4	30
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	79 - 120	4	30
trans-1,3-Dichloropropene	20.0	20.5		ug/L		102	76 - 120	1	30
Trichloroethene	20.0	18.2		ug/L		91	77 - 120	0	30
Trichlorofluoromethane	20.0	22.2		ug/L		111	71 - 143	6	30
Vinyl chloride	20.0	19.3		ug/L		97	62 - 138	6	30
cis-1,3-Dichloropropene	20.0	20.2		ug/L		101	77 - 120	4	30
Styrene	20.0	18.0		ug/L		90	80 - 120	3	30

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

Lab Sample ID: LCSD 460-474601/4
Matrix: Water
Analysis Batch: 474601

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*109*		*74 - 132*
4-Bromofluorobenzene	*94*		*77 - 124*
Toluene-d8 (Surr)	*111*		*80 - 120*
Dibromofluoromethane (Surr)	*109*		*72 - 131*

Lab Sample ID: MB 460-474679/7
Matrix: Solid
Analysis Batch: 474679

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			11/04/17 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			11/04/17 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			11/04/17 21:36	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			11/04/17 21:36	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			11/04/17 21:36	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			11/04/17 21:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			11/04/17 21:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			11/04/17 21:36	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			11/04/17 21:36	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			11/04/17 21:36	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			11/04/17 21:36	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			11/04/17 21:36	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			11/04/17 21:36	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			11/04/17 21:36	1
2-Hexanone	ND		5.0	0.78	ug/Kg			11/04/17 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			11/04/17 21:36	1
Acetone	ND		5.0	3.8	ug/Kg			11/04/17 21:36	1
Benzene	ND		1.0	0.26	ug/Kg			11/04/17 21:36	1
Bromoform	ND		1.0	0.43	ug/Kg			11/04/17 21:36	1
Bromomethane	ND		1.0	0.47	ug/Kg			11/04/17 21:36	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			11/04/17 21:36	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			11/04/17 21:36	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			11/04/17 21:36	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			11/04/17 21:36	1
Chloroethane	ND		1.0	0.52	ug/Kg			11/04/17 21:36	1
Chloroform	ND		1.0	0.32	ug/Kg			11/04/17 21:36	1
Chloromethane	ND		1.0	0.44	ug/Kg			11/04/17 21:36	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			11/04/17 21:36	1
Cyclohexane	ND		1.0	0.22	ug/Kg			11/04/17 21:36	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			11/04/17 21:36	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			11/04/17 21:36	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			11/04/17 21:36	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			11/04/17 21:36	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			11/04/17 21:36	1
Methyl acetate	ND		5.0	4.3	ug/Kg			11/04/17 21:36	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			11/04/17 21:36	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			11/04/17 21:36	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			11/04/17 21:36	1

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

Lab Sample ID: MB 460-474679/7
Matrix: Solid
Analysis Batch: 474679

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.14	ug/Kg			11/04/17 21:36	1
Toluene	ND		1.0	0.63	ug/Kg			11/04/17 21:36	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			11/04/17 21:36	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/04/17 21:36	1
Trichloroethene	ND		1.0	0.14	ug/Kg			11/04/17 21:36	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			11/04/17 21:36	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			11/04/17 21:36	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			11/04/17 21:36	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/04/17 21:36	1
Styrene	ND		1.0	0.12	ug/Kg			11/04/17 21:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*90*		*78 - 135*		*11/04/17 21:36*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*		*11/04/17 21:36*	*1*
Toluene-d8 (Surr)	*93*		*73 - 121*		*11/04/17 21:36*	*1*
Dibromofluoromethane (Surr)	*107*		*61 - 149*		*11/04/17 21:36*	*1*

Lab Sample ID: LCS 460-474679/3
Matrix: Solid
Analysis Batch: 474679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.2		ug/Kg		91	80 - 125
1,1,2,2-Tetrachloroethane	20.0	17.0		ug/Kg		85	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.4		ug/Kg		92	78 - 132
1,1,2-Trichloroethane	20.0	17.6		ug/Kg		88	76 - 124
1,1-Dichloroethane	20.0	17.4		ug/Kg		87	80 - 124
1,1-Dichloroethene	20.0	18.4		ug/Kg		92	79 - 132
1,2,4-Trichlorobenzene	20.0	17.8		ug/Kg		89	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	15.4		ug/Kg		77	65 - 129
1,2-Dichlorobenzene	20.0	18.6		ug/Kg		93	80 - 121
1,2-Dichloroethane	20.0	16.2		ug/Kg		81	68 - 120
1,2-Dichloropropane	20.0	17.5		ug/Kg		87	77 - 124
1,3-Dichlorobenzene	20.0	18.7		ug/Kg		93	79 - 124
1,4-Dichlorobenzene	20.0	18.2		ug/Kg		91	79 - 121
2-Butanone (MEK)	100	109		ug/Kg		109	61 - 140
2-Hexanone	100	92.9		ug/Kg		93	78 - 120
4-Methyl-2-pentanone (MIBK)	100	97.1		ug/Kg		97	80 - 120
Acetone	100	92.8		ug/Kg		93	75 - 120
Benzene	20.0	18.5		ug/Kg		93	75 - 127
Bromoform	20.0	18.5		ug/Kg		92	19 - 150
Bromomethane	20.0	22.2		ug/Kg		111	59 - 136
Carbon disulfide	20.0	17.9		ug/Kg		89	74 - 130
Carbon tetrachloride	20.0	19.1		ug/Kg		96	77 - 138
Chlorobenzene	20.0	18.1		ug/Kg		90	80 - 120
Dibromochloromethane	20.0	18.4		ug/Kg		92	67 - 143
Chloroethane	20.0	21.1		ug/Kg		106	50 - 139

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

Lab Sample ID: LCS 460-474679/3
Matrix: Solid
Analysis Batch: 474679

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	18.7		ug/Kg		94	80 - 122
Chloromethane	20.0	16.3		ug/Kg		81	66 - 128
cis-1,2-Dichloroethene	20.0	19.1		ug/Kg		95	80 - 123
Cyclohexane	20.0	17.7		ug/Kg		89	67 - 135
Bromodichloromethane	20.0	17.7		ug/Kg		89	76 - 129
Dichlorodifluoromethane	20.0	16.5		ug/Kg		83	72 - 127
Ethylbenzene	20.0	17.8		ug/Kg		89	79 - 124
1,2-Dibromoethane	20.0	17.6		ug/Kg		88	80 - 122
Isopropylbenzene	20.0	18.3		ug/Kg		91	80 - 125
Methyl acetate	100	80.9		ug/Kg		81	73 - 123
Methyl tert-butyl ether	20.0	17.4		ug/Kg		87	80 - 120
Methylcyclohexane	20.0	17.6		ug/Kg		88	71 - 137
Methylene Chloride	20.0	18.4		ug/Kg		92	79 - 128
Tetrachloroethene	20.0	19.1		ug/Kg		95	73 - 130
Toluene	20.0	17.7		ug/Kg		89	75 - 122
trans-1,2-Dichloroethene	20.0	18.5		ug/Kg		92	80 - 129
trans-1,3-Dichloropropene	20.0	15.5		ug/Kg		78	72 - 121
Trichloroethene	20.0	18.3		ug/Kg		92	79 - 122
Trichlorofluoromethane	20.0	20.2		ug/Kg		101	68 - 136
Vinyl chloride	20.0	17.0		ug/Kg		85	70 - 134
cis-1,3-Dichloropropene	20.0	16.4		ug/Kg		82	75 - 124
Styrene	20.0	18.2		ug/Kg		91	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*90*		*78 - 135*
4-Bromofluorobenzene	*106*		*67 - 126*
Toluene-d8 (Surr)	*100*		*73 - 121*
Dibromofluoromethane (Surr)	*108*		*61 - 149*

Lab Sample ID: LCSD 460-474679/4
Matrix: Solid
Analysis Batch: 474679

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	80 - 125	2	30
1,1,2,2-Tetrachloroethane	20.0	17.9		ug/Kg		89	72 - 131	5	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.3		ug/Kg		96	78 - 132	5	30
1,1,2-Trichloroethane	20.0	18.1		ug/Kg		90	76 - 124	3	30
1,1-Dichloroethane	20.0	17.8		ug/Kg		89	80 - 124	2	30
1,1-Dichloroethene	20.0	18.8		ug/Kg		94	79 - 132	2	30
1,2,4-Trichlorobenzene	20.0	17.8		ug/Kg		89	74 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	16.8		ug/Kg		84	65 - 129	8	30
1,2-Dichlorobenzene	20.0	18.8		ug/Kg		94	80 - 121	1	30
1,2-Dichloroethane	20.0	16.3		ug/Kg		82	68 - 120	0	30
1,2-Dichloropropane	20.0	17.6		ug/Kg		88	77 - 124	1	30
1,3-Dichlorobenzene	20.0	18.6		ug/Kg		93	79 - 124	0	30
1,4-Dichlorobenzene	20.0	18.0		ug/Kg		90	79 - 121	1	30

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

Lab Sample ID: LCSD 460-474679/4
Matrix: Solid
Analysis Batch: 474679

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	107		ug/Kg		107	61 - 140	2	30
2-Hexanone			100	92.8		ug/Kg		93	78 - 120	0	30
4-Methyl-2-pentanone (MIBK)			100	96.9		ug/Kg		97	80 - 120	0	30
Acetone			100	88.9		ug/Kg		89	75 - 120	4	30
Benzene			20.0	19.0		ug/Kg		95	75 - 127	2	30
Bromoform			20.0	18.9		ug/Kg		94	19 - 150	2	30
Bromomethane			20.0	22.8		ug/Kg		114	59 - 136	3	30
Carbon disulfide			20.0	18.2		ug/Kg		91	74 - 130	2	30
Carbon tetrachloride			20.0	19.4		ug/Kg		97	77 - 138	2	30
Chlorobenzene			20.0	18.4		ug/Kg		92	80 - 120	2	30
Dibromochloromethane			20.0	18.5		ug/Kg		92	67 - 143	0	30
Chloroethane			20.0	21.5		ug/Kg		108	50 - 139	2	30
Chloroform			20.0	18.9		ug/Kg		95	80 - 122	1	30
Chloromethane			20.0	16.9		ug/Kg		85	66 - 128	4	30
cis-1,2-Dichloroethene			20.0	19.7		ug/Kg		99	80 - 123	3	30
Cyclohexane			20.0	18.2		ug/Kg		91	67 - 135	2	30
Bromodichloromethane			20.0	17.7		ug/Kg		89	76 - 129	0	30
Dichlorodifluoromethane			20.0	16.8		ug/Kg		84	72 - 127	1	30
Ethylbenzene			20.0	18.7		ug/Kg		93	79 - 124	5	30
1,2-Dibromoethane			20.0	17.6		ug/Kg		88	80 - 122	0	30
Isopropylbenzene			20.0	18.8		ug/Kg		94	80 - 125	3	30
Methyl acetate			100	87.8		ug/Kg		88	73 - 123	8	30
Methyl tert-butyl ether			20.0	17.3		ug/Kg		87	80 - 120	0	30
Methylcyclohexane			20.0	18.1		ug/Kg		90	71 - 137	3	30
Methylene Chloride			20.0	19.1		ug/Kg		95	79 - 128	4	30
Tetrachloroethene			20.0	19.7		ug/Kg		99	73 - 130	3	30
Toluene			20.0	18.1		ug/Kg		91	75 - 122	2	30
trans-1,2-Dichloroethene			20.0	19.3		ug/Kg		96	80 - 129	4	30
trans-1,3-Dichloropropene			20.0	16.0		ug/Kg		80	72 - 121	3	30
Trichloroethene			20.0	18.7		ug/Kg		93	79 - 122	2	30
Trichlorofluoromethane			20.0	20.3		ug/Kg		102	68 - 136	1	30
Vinyl chloride			20.0	17.6		ug/Kg		88	70 - 134	3	30
cis-1,3-Dichloropropene			20.0	16.5		ug/Kg		82	75 - 124	0	30
Styrene			20.0	18.5		ug/Kg		92	78 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*87*		*78 - 135*
4-Bromofluorobenzene	*104*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*105*		*61 - 149*

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 460-472660/1-A
Matrix: Water
Analysis Batch: 472753

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 472660

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.044	ug/L		10/27/17 09:47	10/28/17 02:11	1

Lab Sample ID: LCS 460-472660/4-A
Matrix: Water
Analysis Batch: 472753

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 472660

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.610		ug/L		76	10 - 137

Lab Sample ID: LCSD 460-472660/5-A
Matrix: Water
Analysis Batch: 472753

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 472660

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.587		ug/L		73	10 - 137	4	30

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

GC/MS VOA

Prep Batch: 472629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-1	PDI-5-SO-67.5-20171025	Total/NA	Solid	5035	
460-143763-2	PDI-5-SO-68-20171025	Total/NA	Solid	5035	
460-143763-3	PDI-5-SO-73-20171025	Total/NA	Solid	5035	
460-143763-5	PDI-5-SO-81-20171026	Total/NA	Solid	5035	

Analysis Batch: 474513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-4	PDI-5-GW-72-75-20171026	Total/NA	Water	8260C	
460-143763-8	TRIP BLANK-20171026	Total/NA	Water	8260C	
MB 460-474513/7	Method Blank	Total/NA	Water	8260C	
LCS 460-474513/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-474513/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 474601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-6	PDI-5-GW-80-85-20171026	Total/NA	Water	8260C	
460-143763-7	GW-FD-01-20171026	Total/NA	Water	8260C	
MB 460-474601/7	Method Blank	Total/NA	Water	8260C	
LCS 460-474601/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-474601/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 474679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-1	PDI-5-SO-67.5-20171025	Total/NA	Solid	8260C	472629
460-143763-2	PDI-5-SO-68-20171025	Total/NA	Solid	8260C	472629
460-143763-3	PDI-5-SO-73-20171025	Total/NA	Solid	8260C	472629
460-143763-5	PDI-5-SO-81-20171026	Total/NA	Solid	8260C	472629
MB 460-474679/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-474679/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-474679/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

GC/MS Semi VOA

Prep Batch: 472660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-4	PDI-5-GW-72-75-20171026	Total/NA	Water	3510C	
460-143763-6	PDI-5-GW-80-85-20171026	Total/NA	Water	3510C	
460-143763-7	GW-FD-01-20171026	Total/NA	Water	3510C	
MB 460-472660/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-472660/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-472660/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 472753

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-4	PDI-5-GW-72-75-20171026	Total/NA	Water	8270D SIM	472660
460-143763-6	PDI-5-GW-80-85-20171026	Total/NA	Water	8270D SIM	472660
460-143763-7	GW-FD-01-20171026	Total/NA	Water	8270D SIM	472660
MB 460-472660/1-A	Method Blank	Total/NA	Water	8270D SIM	472660
LCS 460-472660/4-A	Lab Control Sample	Total/NA	Water	8270D SIM	472660
LCSD 460-472660/5-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM	472660

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

General Chemistry

Analysis Batch: 473223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-143763-1	PDI-5-SO-67.5-20171025	Total/NA	Solid	Moisture	
460-143763-2	PDI-5-SO-68-20171025	Total/NA	Solid	Moisture	
460-143763-3	PDI-5-SO-73-20171025	Total/NA	Solid	Moisture	
460-143763-5	PDI-5-SO-81-20171026	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: PDI-5-SO-67.5-20171025 — Lab Sample ID: 460-143763-1

Date Collected: 10/25/17 15:50 — **Matrix: Solid**
Date Received: 10/26/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	473223	10/30/17 09:41	BJP	TAL EDI

Client Sample ID: PDI-5-SO-67.5-20171025 — Lab Sample ID: 460-143763-1

Date Collected: 10/25/17 15:50 — **Matrix: Solid**
Date Received: 10/26/17 18:00 — **Percent Solids: 81.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			472629	10/27/17 08:22	DBM	TAL EDI
Total/NA	Analysis	8260C		1	474679	11/05/17 02:12	AAT	TAL EDI

Client Sample ID: PDI-5-SO-68-20171025 — Lab Sample ID: 460-143763-2

Date Collected: 10/25/17 15:55 — **Matrix: Solid**
Date Received: 10/26/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	473223	10/30/17 09:41	BJP	TAL EDI

Client Sample ID: PDI-5-SO-68-20171025 — Lab Sample ID: 460-143763-2

Date Collected: 10/25/17 15:55 — **Matrix: Solid**
Date Received: 10/26/17 18:00 — **Percent Solids: 78.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			472629	10/27/17 08:23	DBM	TAL EDI
Total/NA	Analysis	8260C		1	474679	11/05/17 03:52	AAT	TAL EDI

Client Sample ID: PDI-5-SO-73-20171025 — Lab Sample ID: 460-143763-3

Date Collected: 10/25/17 16:10 — **Matrix: Solid**
Date Received: 10/26/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	473223	10/30/17 09:41	BJP	TAL EDI

Client Sample ID: PDI-5-SO-73-20171025 — Lab Sample ID: 460-143763-3

Date Collected: 10/25/17 16:10 — **Matrix: Solid**
Date Received: 10/26/17 18:00 — **Percent Solids: 75.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			472629	10/27/17 08:24	DBM	TAL EDI
Total/NA	Analysis	8260C		1	474679	11/05/17 04:16	AAT	TAL EDI

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: PDI-5-GW-72-75-20171026
Date Collected: 10/26/17 09:25
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474513	11/04/17 05:25	DAS	TAL EDI
Total/NA	Prep	3510C			472660	10/27/17 09:47	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	472753	10/28/17 05:11	SK	TAL EDI

Client Sample ID: PDI-5-SO-81-20171026
Date Collected: 10/26/17 10:45
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	473223	10/30/17 09:41	BJP	TAL EDI

Client Sample ID: PDI-5-SO-81-20171026
Date Collected: 10/26/17 10:45
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-5
Matrix: Solid
Percent Solids: 73.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			472629	10/27/17 08:25	DBM	TAL EDI
Total/NA	Analysis	8260C		1	474679	11/05/17 04:40	AAT	TAL EDI

Client Sample ID: PDI-5-GW-80-85-20171026
Date Collected: 10/26/17 11:55
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	474601	11/04/17 15:04	AAT	TAL EDI
Total/NA	Prep	3510C			472660	10/27/17 09:47	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	472753	10/28/17 05:33	SK	TAL EDI

Client Sample ID: GW-FD-01-20171026
Date Collected: 10/26/17 12:00
Date Received: 10/26/17 18:00

Lab Sample ID: 460-143763-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	474601	11/04/17 15:31	AAT	TAL EDI
Total/NA	Prep	3510C			472660	10/27/17 09:47	ANM	TAL EDI
Total/NA	Analysis	8270D SIM		1	472753	10/28/17 05:56	SK	TAL EDI

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Client Sample ID: TRIP BLANK-20171026

Lab Sample ID: 460-143763-8

Date Collected: 10/26/17 12:00

Matrix: Water

Date Received: 10/26/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	474513	11/03/17 23:38	DAS	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270D SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-143763-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-143763-1	PDI-5-SO-67.5-20171025	Solid	10/25/17 15:50	10/26/17 18:00
460-143763-2	PDI-5-SO-68-20171025	Solid	10/25/17 15:55	10/26/17 18:00
460-143763-3	PDI-5-SO-73-20171025	Solid	10/25/17 16:10	10/26/17 18:00
460-143763-4	PDI-5-GW-72-75-20171026	Water	10/26/17 09:25	10/26/17 18:00
460-143763-5	PDI-5-SO-81-20171026	Solid	10/26/17 10:45	10/26/17 18:00
460-143763-6	PDI-5-GW-80-85-20171026	Water	10/26/17 11:55	10/26/17 18:00
460-143763-7	GW-FD-01-20171026	Water	10/26/17 12:00	10/26/17 18:00
460-143763-8	TRIP BLANK-20171026	Water	10/26/17 12:00	10/26/17 18:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/8/2017

Client Information	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.2
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 2 of 6
Company: CDM Smith, Inc.				Job #: 143763
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Latham	TAT Requested (days):			M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)
State, Zip: NY, 12110				
Phone	PO #: Purchase Order not required			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

460-143763 Chain of Custody

J - DI Water
K - EDTA
L - EDA
Other: **SHORT HOLD**

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wewater, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	N	N		
PDI-5-SO-675-20171025	10/25/17	1550	G	S ~~Water~~			X						1
PDI-5-SO-68-20171025	10/25/17	1555	G	S ~~Water~~			X						2
PDI-5-SO-73-20171025	10/25/17	1610	G	S ~~Water~~			X						3
PDI-5-GW-72-75-20171026	10/26/17	925	G	Water			X	X					4
PDI-5-SO-81-20171026	10/26/17	1045	G	S ~~Water~~			X						5
PDI-5-GW-SO-35-20171026	10/26/17	1155	G	Water			X	X					6
GW-FD-01-20171026	10/26/17	1200	G	Water			X	X					7
TRIP BLANK-20171026	10/17/17	—	—	Water			X						8
				Water									
				Water									
				Water									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		10/26/17 12:20	CDMSmith		10/26/17 1220	TA
2		10/26/17 18:50			10/26/17 1800	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks:

2.0 IR#9 POC

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 143763

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.0 °C	2.0 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 10/26/17

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-143763-1

Login Number: 143763
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-145373-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
11/30/2017 3:34:24 PM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 13
QC Sample Results 14
QC Association Summary 24
Lab Chronicle 26
Certification Summary 28
Method Summary 29
Sample Summary 30
Chain of Custody 31
Receipt Checklists 37

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

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

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Job ID: 460-145373-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-145373-1

Comments
No additional comments.

Receipt
The samples were received on 11/17/2017 8:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 7.1° C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. Received 9 voa vials and 6 250ml amber glass containers for samples: PDI-1-GW-75-20171117 (460-145373-6). Assumed client wanted MS/MSD but not indicated on COC.

The following samples were received at the laboratory outside the required temperature criteria: PDI-1-SO-20-20171117 (460-145373-1), PDI-1-SO-20-20171117 (460-145373-1[MS]), PDI-1-SO-20-20171117 (460-145373-1[MSD]), PDI-1-SO-24-20171117 (460-145373-2), PDI-1-SO-81.5-20171117 (460-145373-3), PDI-1-SO-82.5-20171117 (460-145373-4), PDI-1-SO-83.5-20171117 (460-145373-5), PDI-1-GW-75-20171117 (460-145373-6), PDI-1-GW-75-20171117 (460-145373-6[MS]), PDI-1-GW-75-20171117 (460-145373-6[MSD]) and TRIP BLANK - 20171117 (460-145373-7). The sample(s) is considered acceptable since it was collected and submitted to the laboratory on the same day and there is evidence that the chilling process has begun. Received on ice.

Method 8260C: Limited sample volume was provided for the following sample for the 8260 analysis: TRIP BLANK - 20171117 (460-145373-7). Only one vial received.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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

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

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Client Sample ID: PDI-1-SO-20-20171117 — Lab Sample ID: 460-145373-1

No Detections.

Client Sample ID: PDI-1-SO-24-20171117 — Lab Sample ID: 460-145373-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	1040		1000	380	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: PDI-1-SO-81.5-20171117 — Lab Sample ID: 460-145373-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.6	J B	4.2	3.2	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.8		0.85	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5		0.85	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	120		0.85	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-1-SO-82.5-20171117 — Lab Sample ID: 460-145373-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	B	4.3	3.3	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	2.3		0.86	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.37	J	0.86	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.4		0.86	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	140		0.86	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-1-SO-83.5-20171117 — Lab Sample ID: 460-145373-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		0.87	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	4.0		0.87	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	320		0.87	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-1-GW-75-20171117 — Lab Sample ID: 460-145373-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Bromoform	0.52	J	1.0	0.18	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.52	J	1.0	0.22	ug/L	1		8260C	Total/NA
Chloroform	0.84	J	1.0	0.22	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.67	J	1.0	0.15	ug/L	1		8260C	Total/NA
Trichloroethene	2.3		1.0	0.22	ug/L	1		8260C	Total/NA
1,4-Dioxane	1.8		0.40	0.044	ug/L	1		8270C	Total/NA

Client Sample ID: TRIP BLANK - 20171117 — Lab Sample ID: 460-145373-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14		5.0	1.1	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-1-SO-20-20171117

Lab Sample ID: 460-145373-1
Date Collected: 11/17/17 11:00
Matrix: Solid
Date Received: 11/17/17 20:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	380	mg/Kg			11/27/17 19:32	1

Client Sample ID: PDI-1-SO-24-20171117

Lab Sample ID: 460-145373-2
Date Collected: 11/17/17 11:05
Matrix: Solid
Date Received: 11/17/17 20:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**1040**		1000	380	mg/Kg			11/27/17 19:51	1

Client Sample ID: PDI-1-SO-81.5-20171117

Lab Sample ID: 460-145373-3
Date Collected: 11/17/17 13:45
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 83.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.85	0.20	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,1,2,2-Tetrachloroethane	ND		0.85	0.18	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.85	0.26	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,1,2-Trichloroethane	ND		0.85	0.15	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,1-Dichloroethane	ND		0.85	0.18	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,1-Dichloroethene	ND		0.85	0.19	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2,4-Trichlorobenzene	ND		0.85	0.078	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2-Dibromo-3-Chloropropane	ND		0.85	0.39	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2-Dichlorobenzene	ND		0.85	0.12	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2-Dichloroethane	ND		0.85	0.25	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2-Dichloropropane	ND		0.85	0.36	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,3-Dichlorobenzene	ND		0.85	0.14	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,4-Dichlorobenzene	ND		0.85	0.085	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
2-Butanone (MEK)	ND		4.2	0.94	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
2-Hexanone	ND		4.2	0.66	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	0.56	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Acetone	**3.6**	**J B**	4.2	3.2	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Benzene	ND		0.85	0.22	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Bromoform	ND		0.85	0.36	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Bromomethane	ND		0.85	0.40	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Carbon disulfide	ND		0.85	0.23	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Carbon tetrachloride	ND		0.85	0.15	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Chlorobenzene	ND		0.85	0.15	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Dibromochloromethane	ND		0.85	0.16	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Chloroethane	ND		0.85	0.44	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Chloroform	ND		0.85	0.27	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Chloromethane	ND		0.85	0.37	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
cis-1,2-Dichloroethene	**1.8**		0.85	0.13	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Cyclohexane	ND		0.85	0.19	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Bromodichloromethane	ND		0.85	0.22	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Dichlorodifluoromethane	ND		0.85	0.29	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Ethylbenzene	ND		0.85	0.17	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
1,2-Dibromoethane	ND		0.85	0.15	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Isopropylbenzene	ND		0.85	0.11	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1

Client Sample ID: PDI-1-SO-81.5-20171117

Lab Sample ID: 460-145373-3

Date Collected: 11/17/17 13:45
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 83.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		4.2	3.7	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Methyl tert-butyl ether	ND		0.85	0.11	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Methylcyclohexane	ND		0.85	0.14	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Methylene Chloride	ND		0.85	0.14	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Tetrachloroethene	**1.5**		0.85	0.12	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Toluene	ND		0.85	0.53	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
trans-1,2-Dichloroethene	ND		0.85	0.21	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
trans-1,3-Dichloropropene	ND		0.85	0.23	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Trichloroethene	**120**		0.85	0.12	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Trichlorofluoromethane	ND		0.85	0.34	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Vinyl chloride	ND		0.85	0.46	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Xylenes, Total	ND		1.7	0.21	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
cis-1,3-Dichloropropene	ND		0.85	0.23	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1
Styrene	ND		0.85	0.10	ug/Kg	☼	11/18/17 10:11	11/27/17 08:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*78 - 135*	*11/18/17 10:11*	*11/27/17 08:11*	*1*
4-Bromofluorobenzene	*109*		*67 - 126*	*11/18/17 10:11*	*11/27/17 08:11*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*11/18/17 10:11*	*11/27/17 08:11*	*1*
Dibromofluoromethane (Surr)	*114*		*61 - 149*	*11/18/17 10:11*	*11/27/17 08:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.3**		1.0	1.0	%			11/25/17 08:59	1
Percent Solids	**83.7**		1.0	1.0	%			11/25/17 08:59	1

Client Sample ID: PDI-1-SO-82.5-20171117

Lab Sample ID: 460-145373-4

Date Collected: 11/17/17 13:50
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 82.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.86	0.20	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,1,2,2-Tetrachloroethane	ND		0.86	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.86	0.26	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,1,2-Trichloroethane	ND		0.86	0.15	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,1-Dichloroethane	ND		0.86	0.18	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,1-Dichloroethene	ND		0.86	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2,4-Trichlorobenzene	ND		0.86	0.080	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2-Dibromo-3-Chloropropane	ND		0.86	0.40	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2-Dichlorobenzene	ND		0.86	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2-Dichloroethane	ND		0.86	0.26	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2-Dichloropropane	ND		0.86	0.37	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,3-Dichlorobenzene	ND		0.86	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,4-Dichlorobenzene	ND		0.86	0.086	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
2-Butanone (MEK)	ND		4.3	0.96	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
2-Hexanone	ND		4.3	0.67	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	0.57	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Acetone	**9.1**	**B**	4.3	3.3	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Benzene	ND		0.86	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1

Client Sample ID: PDI-1-SO-82.5-20171117

Lab Sample ID: 460-145373-4
Date Collected: 11/17/17 13:50
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		0.86	0.37	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Bromomethane	ND		0.86	0.41	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Carbon disulfide	ND		0.86	0.23	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Carbon tetrachloride	ND		0.86	0.16	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Chlorobenzene	ND		0.86	0.15	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Dibromochloromethane	ND		0.86	0.17	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Chloroethane	ND		0.86	0.45	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Chloroform	ND		0.86	0.28	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Chloromethane	ND		0.86	0.38	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
cis-1,2-Dichloroethene	**2.3**		0.86	0.13	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Cyclohexane	ND		0.86	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Bromodichloromethane	ND		0.86	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Dichlorodifluoromethane	ND		0.86	0.29	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Ethylbenzene	ND		0.86	0.17	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
1,2-Dibromoethane	ND		0.86	0.16	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Isopropylbenzene	ND		0.86	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Methyl acetate	ND		4.3	3.7	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Methyl tert-butyl ether	ND		0.86	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Methylcyclohexane	ND		0.86	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Methylene Chloride	**0.37**	**J**	0.86	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Tetrachloroethene	**1.4**		0.86	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Toluene	ND		0.86	0.54	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
trans-1,2-Dichloroethene	ND		0.86	0.21	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
trans-1,3-Dichloropropene	ND		0.86	0.23	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Trichloroethene	**140**		0.86	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Trichlorofluoromethane	ND		0.86	0.35	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Vinyl chloride	ND		0.86	0.47	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Xylenes, Total	ND		1.7	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
cis-1,3-Dichloropropene	ND		0.86	0.24	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1
Styrene	ND		0.86	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 135*	*11/18/17 10:12*	*11/27/17 08:35*	*1*
4-Bromofluorobenzene	*108*		*67 - 126*	*11/18/17 10:12*	*11/27/17 08:35*	*1*
Toluene-d8 (Surr)	*99*		*73 - 121*	*11/18/17 10:12*	*11/27/17 08:35*	*1*
Dibromofluoromethane (Surr)	*112*		*61 - 149*	*11/18/17 10:12*	*11/27/17 08:35*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.2**		1.0	1.0	%			11/25/17 08:59	1
Percent Solids	**82.8**		1.0	1.0	%			11/25/17 08:59	1

Client Sample ID: PDI-1-SO-83.5-20171117

Lab Sample ID: 460-145373-5
Date Collected: 11/17/17 13:55
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.87	0.20	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,1,2,2-Tetrachloroethane	ND		0.87	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1

Client Sample ID: PDI-1-SO-83.5-20171117
Date Collected: 11/17/17 13:55
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145373-5
Matrix: Solid
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.87	0.26	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,1,2-Trichloroethane	ND		0.87	0.15	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,1-Dichloroethane	ND		0.87	0.18	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,1-Dichloroethene	ND		0.87	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2,4-Trichlorobenzene	ND		0.87	0.080	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2-Dibromo-3-Chloropropane	ND		0.87	0.40	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2-Dichlorobenzene	ND		0.87	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2-Dichloroethane	ND		0.87	0.26	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2-Dichloropropane	ND		0.87	0.37	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,3-Dichlorobenzene	ND		0.87	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,4-Dichlorobenzene	ND		0.87	0.087	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
2-Butanone (MEK)	ND		4.3	0.96	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
2-Hexanone	ND		4.3	0.68	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		4.3	0.57	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Acetone	ND		4.3	3.3	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Benzene	ND		0.87	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Bromoform	ND		0.87	0.37	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Bromomethane	ND		0.87	0.41	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Carbon disulfide	ND		0.87	0.23	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Carbon tetrachloride	ND		0.87	0.16	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Chlorobenzene	ND		0.87	0.15	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Dibromochloromethane	ND		0.87	0.17	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Chloroethane	ND		0.87	0.45	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Chloroform	ND		0.87	0.28	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Chloromethane	ND		0.87	0.38	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
cis-1,2-Dichloroethene	**3.9**		0.87	0.13	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Cyclohexane	ND		0.87	0.19	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Bromodichloromethane	ND		0.87	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Dichlorodifluoromethane	ND		0.87	0.29	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Ethylbenzene	ND		0.87	0.17	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
1,2-Dibromoethane	ND		0.87	0.16	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Isopropylbenzene	ND		0.87	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Methyl acetate	ND		4.3	3.7	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Methyl tert-butyl ether	ND		0.87	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Methylcyclohexane	ND		0.87	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Methylene Chloride	ND		0.87	0.14	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Tetrachloroethene	**4.0**		0.87	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Toluene	ND		0.87	0.54	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
trans-1,2-Dichloroethene	ND		0.87	0.21	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
trans-1,3-Dichloropropene	ND		0.87	0.23	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Trichloroethene	**320**		0.87	0.12	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Trichlorofluoromethane	ND		0.87	0.35	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Vinyl chloride	ND		0.87	0.47	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Xylenes, Total	ND		1.7	0.22	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
cis-1,3-Dichloropropene	ND		0.87	0.24	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1
Styrene	ND		0.87	0.11	ug/Kg	☼	11/18/17 10:12	11/27/17 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*78 - 135*	*11/18/17 10:12*	*11/27/17 08:59*	*1*
4-Bromofluorobenzene	*105*		*67 - 126*	*11/18/17 10:12*	*11/27/17 08:59*	*1*

Client Sample ID: PDI-1-SO-83.5-20171117

Lab Sample ID: 460-145373-5
Date Collected: 11/17/17 13:55
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.0

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*98*		*73 - 121*	*11/18/17 10:12*	*11/27/17 08:59*	*1*
Dibromofluoromethane (Surr)	*111*		*61 - 149*	*11/18/17 10:12*	*11/27/17 08:59*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			11/25/17 08:59	1
Percent Solids	**84.0**		1.0	1.0	%			11/25/17 08:59	1

Client Sample ID: PDI-1-GW-75-20171117

Lab Sample ID: 460-145373-6
Date Collected: 11/17/17 13:30
Matrix: Water
Date Received: 11/17/17 20:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/29/17 04:38	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/29/17 04:38	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/29/17 04:38	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/29/17 04:38	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/29/17 04:38	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/29/17 04:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/29/17 04:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/29/17 04:38	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/29/17 04:38	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/29/17 04:38	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/29/17 04:38	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 04:38	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 04:38	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/29/17 04:38	1
2-Hexanone	ND		5.0	0.72	ug/L			11/29/17 04:38	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/29/17 04:38	1
Acetone	ND		5.0	1.1	ug/L			11/29/17 04:38	1
Benzene	ND		1.0	0.090	ug/L			11/29/17 04:38	1
Bromoform	**0.52**	**J**	1.0	0.18	ug/L			11/29/17 04:38	1
Bromomethane	ND		1.0	0.18	ug/L			11/29/17 04:38	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/29/17 04:38	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/29/17 04:38	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/29/17 04:38	1
Dibromochloromethane	**0.52**	**J**	1.0	0.22	ug/L			11/29/17 04:38	1
Chloroethane	ND		1.0	0.37	ug/L			11/29/17 04:38	1
Chloroform	**0.84**	**J**	1.0	0.22	ug/L			11/29/17 04:38	1
Chloromethane	ND		1.0	0.22	ug/L			11/29/17 04:38	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/29/17 04:38	1
Cyclohexane	ND		1.0	0.26	ug/L			11/29/17 04:38	1
Bromodichloromethane	**0.67**	**J**	1.0	0.15	ug/L			11/29/17 04:38	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/29/17 04:38	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/29/17 04:38	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/29/17 04:38	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/29/17 04:38	1
Methyl acetate	ND		5.0	0.58	ug/L			11/29/17 04:38	1

Client Sample ID: PDI-1-GW-75-20171117

Lab Sample ID: 460-145373-6

Date Collected: 11/17/17 13:30

Matrix: Water

Date Received: 11/17/17 20:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/29/17 04:38	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/29/17 04:38	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/29/17 04:38	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/29/17 04:38	1
Toluene	ND		1.0	0.25	ug/L			11/29/17 04:38	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/29/17 04:38	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/29/17 04:38	1
Trichloroethene	**2.3**		1.0	0.22	ug/L			11/29/17 04:38	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/29/17 04:38	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/29/17 04:38	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/29/17 04:38	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/29/17 04:38	1
Styrene	ND		1.0	0.17	ug/L			11/29/17 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*11/29/17 04:38*	*1*
4-Bromofluorobenzene	*97*		*77 - 124*		*11/29/17 04:38*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/29/17 04:38*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*11/29/17 04:38*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**1.8**		0.40	0.044	ug/L		11/21/17 16:52	11/22/17 11:08	1

Client Sample ID: TRIP BLANK - 20171117

Lab Sample ID: 460-145373-7

Date Collected: 11/17/17 00:00

Matrix: Water

Date Received: 11/17/17 20:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/29/17 04:12	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/29/17 04:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/29/17 04:12	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/29/17 04:12	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/29/17 04:12	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/29/17 04:12	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/29/17 04:12	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/29/17 04:12	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/29/17 04:12	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/29/17 04:12	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/29/17 04:12	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 04:12	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 04:12	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/29/17 04:12	1
2-Hexanone	ND		5.0	0.72	ug/L			11/29/17 04:12	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/29/17 04:12	1
Acetone	**14**		5.0	1.1	ug/L			11/29/17 04:12	1
Benzene	ND		1.0	0.090	ug/L			11/29/17 04:12	1
Bromoform	ND		1.0	0.18	ug/L			11/29/17 04:12	1
Bromomethane	ND		1.0	0.18	ug/L			11/29/17 04:12	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Client Sample ID: TRIP BLANK - 20171117
Date Collected: 11/17/17 00:00
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145373-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.22	ug/L			11/29/17 04:12	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/29/17 04:12	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/29/17 04:12	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/29/17 04:12	1
Chloroethane	ND		1.0	0.37	ug/L			11/29/17 04:12	1
Chloroform	ND		1.0	0.22	ug/L			11/29/17 04:12	1
Chloromethane	ND		1.0	0.22	ug/L			11/29/17 04:12	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/29/17 04:12	1
Cyclohexane	ND		1.0	0.26	ug/L			11/29/17 04:12	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/29/17 04:12	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/29/17 04:12	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/29/17 04:12	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/29/17 04:12	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/29/17 04:12	1
Methyl acetate	ND		5.0	0.58	ug/L			11/29/17 04:12	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/29/17 04:12	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/29/17 04:12	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/29/17 04:12	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/29/17 04:12	1
Toluene	ND		1.0	0.25	ug/L			11/29/17 04:12	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/29/17 04:12	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/29/17 04:12	1
Trichloroethene	ND		1.0	0.22	ug/L			11/29/17 04:12	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/29/17 04:12	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/29/17 04:12	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/29/17 04:12	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/29/17 04:12	1
Styrene	ND		1.0	0.17	ug/L			11/29/17 04:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*74 - 132*		*11/29/17 04:12*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*11/29/17 04:12*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*		*11/29/17 04:12*	*1*
Dibromofluoromethane (Surr)	*103*		*72 - 131*		*11/29/17 04:12*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-145373-3	PDI-1-SO-81.5-20171117	108	109	100	114
460-145373-4	PDI-1-SO-82.5-20171117	106	108	99	112
460-145373-5	PDI-1-SO-83.5-20171117	104	105	98	111
LCS 460-480020/3	Lab Control Sample	95	107	101	104
LCSD 460-480020/4	Lab Control Sample Dup	96	104	98	105
MB 460-480020/7	Method Blank	95	103	98	104

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-145373-6	PDI-1-GW-75-20171117	98	97	96	104
460-145373-6 MS	PDI-1-GW-75-20171117	98	101	99	105
460-145373-6 MSD	PDI-1-GW-75-20171117	100	99	98	105
460-145373-7	TRIP BLANK - 20171117	95	95	96	103
LCS 460-480507/3	Lab Control Sample	99	99	98	103
MB 460-480507/6	Method Blank	98	96	98	105

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-480020/7
Matrix: Solid
Analysis Batch: 480020

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			11/27/17 07:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			11/27/17 07:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			11/27/17 07:07	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			11/27/17 07:07	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			11/27/17 07:07	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			11/27/17 07:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			11/27/17 07:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			11/27/17 07:07	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			11/27/17 07:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			11/27/17 07:07	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			11/27/17 07:07	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			11/27/17 07:07	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			11/27/17 07:07	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			11/27/17 07:07	1
2-Hexanone	ND		5.0	0.78	ug/Kg			11/27/17 07:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			11/27/17 07:07	1
Acetone	3.80	J	5.0	3.8	ug/Kg			11/27/17 07:07	1
Benzene	ND		1.0	0.26	ug/Kg			11/27/17 07:07	1
Bromoform	ND		1.0	0.43	ug/Kg			11/27/17 07:07	1
Bromomethane	ND		1.0	0.47	ug/Kg			11/27/17 07:07	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			11/27/17 07:07	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			11/27/17 07:07	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			11/27/17 07:07	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			11/27/17 07:07	1
Chloroethane	ND		1.0	0.52	ug/Kg			11/27/17 07:07	1
Chloroform	ND		1.0	0.32	ug/Kg			11/27/17 07:07	1
Chloromethane	ND		1.0	0.44	ug/Kg			11/27/17 07:07	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			11/27/17 07:07	1
Cyclohexane	ND		1.0	0.22	ug/Kg			11/27/17 07:07	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			11/27/17 07:07	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			11/27/17 07:07	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			11/27/17 07:07	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			11/27/17 07:07	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			11/27/17 07:07	1
Methyl acetate	ND		5.0	4.3	ug/Kg			11/27/17 07:07	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			11/27/17 07:07	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			11/27/17 07:07	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			11/27/17 07:07	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			11/27/17 07:07	1
Toluene	ND		1.0	0.63	ug/Kg			11/27/17 07:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			11/27/17 07:07	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/27/17 07:07	1
Trichloroethene	ND		1.0	0.14	ug/Kg			11/27/17 07:07	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			11/27/17 07:07	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			11/27/17 07:07	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			11/27/17 07:07	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/27/17 07:07	1
Styrene	ND		1.0	0.12	ug/Kg			11/27/17 07:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 135*		*11/27/17 07:07*	*1*
4-Bromofluorobenzene	*103*		*67 - 126*		*11/27/17 07:07*	*1*
Toluene-d8 (Surr)	*98*		*73 - 121*		*11/27/17 07:07*	*1*
Dibromofluoromethane (Surr)	*104*		*61 - 149*		*11/27/17 07:07*	*1*

Lab Sample ID: LCS 460-480020/3
Matrix: Solid
Analysis Batch: 480020

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.5		ug/Kg		97	80 - 125
1,1,2,2-Tetrachloroethane	20.0	16.9		ug/Kg		85	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.5		ug/Kg		97	78 - 132
1,1,2-Trichloroethane	20.0	17.5		ug/Kg		88	76 - 124
1,1-Dichloroethane	20.0	18.3		ug/Kg		91	80 - 124
1,1-Dichloroethene	20.0	18.6		ug/Kg		93	79 - 132
1,2,4-Trichlorobenzene	20.0	18.7		ug/Kg		93	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.2		ug/Kg		86	65 - 129
1,2-Dichlorobenzene	20.0	18.2		ug/Kg		91	80 - 121
1,2-Dichloroethane	20.0	17.7		ug/Kg		88	68 - 120
1,2-Dichloropropane	20.0	17.8		ug/Kg		89	77 - 124
1,3-Dichlorobenzene	20.0	18.6		ug/Kg		93	79 - 124
1,4-Dichlorobenzene	20.0	18.3		ug/Kg		92	79 - 121
2-Butanone (MEK)	100	94.8		ug/Kg		95	61 - 140
2-Hexanone	100	97.0		ug/Kg		97	78 - 120
4-Methyl-2-pentanone (MIBK)	100	95.0		ug/Kg		95	80 - 120
Acetone	100	87.2		ug/Kg		87	75 - 120
Benzene	20.0	18.1		ug/Kg		90	75 - 127
Bromoform	20.0	17.4		ug/Kg		87	19 - 150
Bromomethane	20.0	18.8		ug/Kg		94	59 - 136
Carbon disulfide	20.0	18.1		ug/Kg		91	74 - 130
Carbon tetrachloride	20.0	19.5		ug/Kg		98	77 - 138
Chlorobenzene	20.0	18.5		ug/Kg		92	80 - 120
Dibromochloromethane	20.0	18.0		ug/Kg		90	67 - 143
Chloroethane	20.0	18.3		ug/Kg		91	50 - 139
Chloroform	20.0	18.4		ug/Kg		92	80 - 122
Chloromethane	20.0	19.4		ug/Kg		97	66 - 128
cis-1,2-Dichloroethene	20.0	18.7		ug/Kg		93	80 - 123
Cyclohexane	20.0	19.5		ug/Kg		98	67 - 135
Bromodichloromethane	20.0	18.7		ug/Kg		93	76 - 129
Dichlorodifluoromethane	20.0	20.6		ug/Kg		103	72 - 127
Ethylbenzene	20.0	18.1		ug/Kg		90	79 - 124
1,2-Dibromoethane	20.0	17.7		ug/Kg		89	80 - 122
Isopropylbenzene	20.0	18.6		ug/Kg		93	80 - 125
Methyl acetate	100	83.8		ug/Kg		84	73 - 123
Methyl tert-butyl ether	20.0	18.2		ug/Kg		91	80 - 120
Methylcyclohexane	20.0	19.6		ug/Kg		98	71 - 137
Methylene Chloride	20.0	19.1		ug/Kg		96	79 - 128
Tetrachloroethene	20.0	18.7		ug/Kg		93	73 - 130
Toluene	20.0	18.2		ug/Kg		91	75 - 122
trans-1,2-Dichloroethene	20.0	19.0		ug/Kg		95	80 - 129
trans-1,3-Dichloropropene	20.0	17.0		ug/Kg		85	72 - 121
Trichloroethene	20.0	18.8		ug/Kg		94	79 - 122

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

Lab Sample ID: LCS 460-480020/3
Matrix: Solid
Analysis Batch: 480020

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			20.0	19.9		ug/Kg		99	68 - 136		
Vinyl chloride			20.0	19.2		ug/Kg		96	70 - 134		
cis-1,3-Dichloropropene			20.0	17.9		ug/Kg		89	75 - 124		
Styrene			20.0	18.9		ug/Kg		94	78 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 135*
4-Bromofluorobenzene	*107*		*67 - 126*
Toluene-d8 (Surr)	*101*		*73 - 121*
Dibromofluoromethane (Surr)	*104*		*61 - 149*

Lab Sample ID: LCSD 460-480020/4
Matrix: Solid
Analysis Batch: 480020

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	19.1		ug/Kg		95	80 - 125	2	30
1,1,2,2-Tetrachloroethane			20.0	17.4		ug/Kg		87	72 - 131	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	19.3		ug/Kg		97	78 - 132	1	30
1,1,2-Trichloroethane			20.0	17.7		ug/Kg		89	76 - 124	1	30
1,1-Dichloroethane			20.0	18.2		ug/Kg		91	80 - 124	0	30
1,1-Dichloroethene			20.0	18.4		ug/Kg		92	79 - 132	1	30
1,2,4-Trichlorobenzene			20.0	18.6		ug/Kg		93	74 - 124	1	30
1,2-Dibromo-3-Chloropropane			20.0	17.9		ug/Kg		89	65 - 129	4	30
1,2-Dichlorobenzene			20.0	17.9		ug/Kg		90	80 - 121	2	30
1,2-Dichloroethane			20.0	17.2		ug/Kg		86	68 - 120	3	30
1,2-Dichloropropane			20.0	17.8		ug/Kg		89	77 - 124	0	30
1,3-Dichlorobenzene			20.0	18.1		ug/Kg		91	79 - 124	3	30
1,4-Dichlorobenzene			20.0	17.6		ug/Kg		88	79 - 121	4	30
2-Butanone (MEK)			100	94.5		ug/Kg		95	61 - 140	0	30
2-Hexanone			100	94.8		ug/Kg		95	78 - 120	2	30
4-Methyl-2-pentanone (MIBK)			100	91.8		ug/Kg		92	80 - 120	3	30
Acetone			100	85.7		ug/Kg		86	75 - 120	2	30
Benzene			20.0	17.7		ug/Kg		88	75 - 127	2	30
Bromoform			20.0	17.8		ug/Kg		89	19 - 150	3	30
Bromomethane			20.0	16.4		ug/Kg		82	59 - 136	13	30
Carbon disulfide			20.0	18.0		ug/Kg		90	74 - 130	1	30
Carbon tetrachloride			20.0	19.2		ug/Kg		96	77 - 138	2	30
Chlorobenzene			20.0	17.9		ug/Kg		89	80 - 120	3	30
Dibromochloromethane			20.0	17.3		ug/Kg		87	67 - 143	4	30
Chloroethane			20.0	16.6		ug/Kg		83	50 - 139	10	30
Chloroform			20.0	18.6		ug/Kg		93	80 - 122	1	30
Chloromethane			20.0	18.8		ug/Kg		94	66 - 128	3	30
cis-1,2-Dichloroethene			20.0	19.0		ug/Kg		95	80 - 123	2	30
Cyclohexane			20.0	19.4		ug/Kg		97	67 - 135	0	30
Bromodichloromethane			20.0	18.0		ug/Kg		90	76 - 129	4	30
Dichlorodifluoromethane			20.0	19.8		ug/Kg		99	72 - 127	4	30

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

Lab Sample ID: LCSD 460-480020/4
Matrix: Solid
Analysis Batch: 480020

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	17.9		ug/Kg		89	79 - 124	1	30
1,2-Dibromoethane			20.0	17.8		ug/Kg		89	80 - 122	0	30
Isopropylbenzene			20.0	18.3		ug/Kg		91	80 - 125	1	30
Methyl acetate			100	87.6		ug/Kg		88	73 - 123	4	30
Methyl tert-butyl ether			20.0	18.5		ug/Kg		92	80 - 120	1	30
Methylcyclohexane			20.0	19.4		ug/Kg		97	71 - 137	1	30
Methylene Chloride			20.0	19.1		ug/Kg		96	79 - 128	0	30
Tetrachloroethene			20.0	18.2		ug/Kg		91	73 - 130	2	30
Toluene			20.0	17.6		ug/Kg		88	75 - 122	3	30
trans-1,2-Dichloroethene			20.0	18.6		ug/Kg		93	80 - 129	2	30
trans-1,3-Dichloropropene			20.0	17.2		ug/Kg		86	72 - 121	1	30
Trichloroethene			20.0	18.7		ug/Kg		93	79 - 122	1	30
Trichlorofluoromethane			20.0	19.7		ug/Kg		98	68 - 136	1	30
Vinyl chloride			20.0	18.6		ug/Kg		93	70 - 134	3	30
cis-1,3-Dichloropropene			20.0	17.7		ug/Kg		88	75 - 124	1	30
Styrene			20.0	18.4		ug/Kg		92	78 - 123	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 135*
4-Bromofluorobenzene	*104*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*105*		*61 - 149*

Lab Sample ID: MB 460-480507/6
Matrix: Water
Analysis Batch: 480507

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/29/17 00:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/29/17 00:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/29/17 00:16	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/29/17 00:16	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/29/17 00:16	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/29/17 00:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/29/17 00:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/29/17 00:16	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/29/17 00:16	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/29/17 00:16	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/29/17 00:16	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 00:16	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/29/17 00:16	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/29/17 00:16	1
2-Hexanone	ND		5.0	0.72	ug/L			11/29/17 00:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/29/17 00:16	1
Acetone	ND		5.0	1.1	ug/L			11/29/17 00:16	1
Benzene	ND		1.0	0.090	ug/L			11/29/17 00:16	1
Bromoform	ND		1.0	0.18	ug/L			11/29/17 00:16	1
Bromomethane	ND		1.0	0.18	ug/L			11/29/17 00:16	1

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

Lab Sample ID: MB 460-480507/6
Matrix: Water
Analysis Batch: 480507

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.22	ug/L			11/29/17 00:16	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/29/17 00:16	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/29/17 00:16	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/29/17 00:16	1
Chloroethane	ND		1.0	0.37	ug/L			11/29/17 00:16	1
Chloroform	ND		1.0	0.22	ug/L			11/29/17 00:16	1
Chloromethane	ND		1.0	0.22	ug/L			11/29/17 00:16	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/29/17 00:16	1
Cyclohexane	ND		1.0	0.26	ug/L			11/29/17 00:16	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/29/17 00:16	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/29/17 00:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/29/17 00:16	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/29/17 00:16	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/29/17 00:16	1
Methyl acetate	ND		5.0	0.58	ug/L			11/29/17 00:16	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/29/17 00:16	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/29/17 00:16	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/29/17 00:16	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/29/17 00:16	1
Toluene	ND		1.0	0.25	ug/L			11/29/17 00:16	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/29/17 00:16	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/29/17 00:16	1
Trichloroethene	ND		1.0	0.22	ug/L			11/29/17 00:16	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/29/17 00:16	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/29/17 00:16	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/29/17 00:16	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/29/17 00:16	1
Styrene	ND		1.0	0.17	ug/L			11/29/17 00:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*11/29/17 00:16*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*11/29/17 00:16*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*11/29/17 00:16*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*11/29/17 00:16*	*1*

Lab Sample ID: LCS 460-480507/3
Matrix: Water
Analysis Batch: 480507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	18.6		ug/L		93	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.4		ug/L		102	59 - 150
1,1,2-Trichloroethane	20.0	18.8		ug/L		94	78 - 120
1,1-Dichloroethane	20.0	21.9		ug/L		109	77 - 123
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124

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

Lab Sample ID: LCS 460-480507/3
Matrix: Water
Analysis Batch: 480507

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		88	55 - 134
1,2-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	19.0		ug/L		95	76 - 121
1,2-Dichloropropane	20.0	19.9		ug/L		99	77 - 123
1,3-Dichlorobenzene	20.0	20.2		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		100	80 - 120
2-Butanone (MEK)	100	88.8		ug/L		89	64 - 120
2-Hexanone	100	99.0		ug/L		99	71 - 125
4-Methyl-2-pentanone (MIBK)	100	100		ug/L		100	78 - 124
Acetone	100	90.4		ug/L		90	39 - 150
Benzene	20.0	19.1		ug/L		96	77 - 121
Bromoform	20.0	19.2		ug/L		96	53 - 120
Bromomethane	20.0	11.3		ug/L		56	10 - 150
Carbon disulfide	20.0	20.9		ug/L		104	69 - 133
Carbon tetrachloride	20.0	19.9		ug/L		99	70 - 132
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dibromochloromethane	20.0	19.7		ug/L		99	73 - 120
Chloroethane	20.0	27.8		ug/L		139	52 - 150
Chloroform	20.0	19.6		ug/L		98	80 - 120
Chloromethane	20.0	18.4		ug/L		92	56 - 131
cis-1,2-Dichloroethene	20.0	20.2		ug/L		101	80 - 120
Cyclohexane	20.0	19.7		ug/L		98	56 - 150
Bromodichloromethane	20.0	19.6		ug/L		98	76 - 120
Dichlorodifluoromethane	20.0	17.7		ug/L		89	50 - 131
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
1,2-Dibromoethane	20.0	18.9		ug/L		95	80 - 120
Isopropylbenzene	20.0	20.1		ug/L		100	80 - 123
Methyl acetate	100	113		ug/L		113	66 - 144
Methyl tert-butyl ether	20.0	20.9		ug/L		104	79 - 122
Methylcyclohexane	20.0	20.8		ug/L		104	61 - 145
Methylene Chloride	20.0	21.0		ug/L		105	77 - 123
Tetrachloroethene	20.0	20.3		ug/L		101	78 - 122
Toluene	20.0	19.2		ug/L		96	80 - 120
trans-1,2-Dichloroethene	20.0	20.6		ug/L		103	79 - 120
trans-1,3-Dichloropropene	20.0	19.2		ug/L		96	76 - 120
Trichloroethene	20.0	20.4		ug/L		102	77 - 120
Trichlorofluoromethane	20.0	21.2		ug/L		106	71 - 143
Vinyl chloride	20.0	18.7		ug/L		93	62 - 138
cis-1,3-Dichloropropene	20.0	19.3		ug/L		96	77 - 120
Styrene	20.0	19.5		ug/L		97	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

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

Lab Sample ID: 460-145373-6 MS
Matrix: Water
Analysis Batch: 480507

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	20.3		ug/L		102	75 - 125
1,1,2,2-Tetrachloroethane	ND		20.0	18.9		ug/L		94	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	21.5		ug/L		108	59 - 150
1,1,2-Trichloroethane	ND		20.0	18.7		ug/L		93	78 - 120
1,1-Dichloroethane	ND		20.0	22.7		ug/L		113	77 - 123
1,1-Dichloroethene	ND		20.0	21.2		ug/L		106	74 - 123
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/L		99	80 - 124
1,2-Dibromo-3-Chloropropane	ND		20.0	17.6		ug/L		88	55 - 134
1,2-Dichlorobenzene	ND		20.0	20.5		ug/L		102	80 - 120
1,2-Dichloroethane	ND		20.0	19.1		ug/L		95	76 - 121
1,2-Dichloropropane	ND		20.0	20.1		ug/L		100	77 - 123
1,3-Dichlorobenzene	ND		20.0	20.5		ug/L		103	80 - 120
1,4-Dichlorobenzene	ND		20.0	19.7		ug/L		98	80 - 120
2-Butanone (MEK)	ND		100	91.5		ug/L		92	64 - 120
2-Hexanone	ND		100	101		ug/L		101	71 - 125
4-Methyl-2-pentanone (MIBK)	ND		100	103		ug/L		103	78 - 124
Acetone	ND		100	90.4		ug/L		90	39 - 150
Benzene	ND		20.0	19.4		ug/L		97	77 - 121
Bromoform	0.52	J	20.0	19.6		ug/L		96	53 - 120
Bromomethane	ND		20.0	11.0		ug/L		55	10 - 150
Carbon disulfide	ND		20.0	21.8		ug/L		109	69 - 133
Carbon tetrachloride	ND		20.0	20.5		ug/L		102	70 - 132
Chlorobenzene	ND		20.0	20.1		ug/L		100	80 - 120
Dibromochloromethane	0.52	J	20.0	20.2		ug/L		99	73 - 120
Chloroethane	ND		20.0	25.6		ug/L		128	52 - 150
Chloroform	0.84	J	20.0	20.6		ug/L		99	80 - 120
Chloromethane	ND		20.0	17.1		ug/L		86	56 - 131
cis-1,2-Dichloroethene	ND		20.0	20.9		ug/L		105	80 - 120
Cyclohexane	ND		20.0	19.9		ug/L		99	56 - 150
Bromodichloromethane	0.67	J	20.0	20.2		ug/L		98	76 - 120
Dichlorodifluoromethane	ND		20.0	16.5		ug/L		82	50 - 131
Ethylbenzene	ND		20.0	20.2		ug/L		101	80 - 120
1,2-Dibromoethane	ND		20.0	18.9		ug/L		94	80 - 120
Isopropylbenzene	ND		20.0	20.6		ug/L		103	80 - 123
Methyl acetate	ND		100	114		ug/L		114	66 - 144
Methyl tert-butyl ether	ND		20.0	21.5		ug/L		108	79 - 122
Methylcyclohexane	ND		20.0	21.3		ug/L		106	61 - 145
Methylene Chloride	ND		20.0	21.8		ug/L		109	77 - 123
Tetrachloroethene	ND		20.0	20.7		ug/L		104	78 - 122
Toluene	ND		20.0	19.6		ug/L		98	80 - 120
trans-1,2-Dichloroethene	ND		20.0	21.4		ug/L		107	79 - 120
trans-1,3-Dichloropropene	ND		20.0	18.7		ug/L		94	76 - 120
Trichloroethene	2.3		20.0	22.8		ug/L		103	77 - 120
Trichlorofluoromethane	ND		20.0	20.8		ug/L		104	71 - 143
Vinyl chloride	ND		20.0	18.2		ug/L		91	62 - 138
cis-1,3-Dichloropropene	ND		20.0	18.7		ug/L		93	77 - 120
Styrene	ND		20.0	19.6		ug/L		98	80 - 120

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

Lab Sample ID: 460-145373-6 MS
Matrix: Water
Analysis Batch: 480507

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*
4-Bromofluorobenzene	*101*		*77 - 124*
Toluene-d8 (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*72 - 131*

Lab Sample ID: 460-145373-6 MSD
Matrix: Water
Analysis Batch: 480507

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	20.5		ug/L		102	75 - 125	1	30
1,1,2,2-Tetrachloroethane	ND		20.0	18.7		ug/L		94	74 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	21.3		ug/L		107	59 - 150	1	30
1,1,2-Trichloroethane	ND		20.0	18.7		ug/L		94	78 - 120	0	30
1,1-Dichloroethane	ND		20.0	22.5		ug/L		112	77 - 123	1	30
1,1-Dichloroethene	ND		20.0	21.0		ug/L		105	74 - 123	1	30
1,2,4-Trichlorobenzene	ND		20.0	20.1		ug/L		100	80 - 124	1	30
1,2-Dibromo-3-Chloropropane	ND		20.0	18.1		ug/L		90	55 - 134	3	30
1,2-Dichlorobenzene	ND		20.0	20.6		ug/L		103	80 - 120	1	30
1,2-Dichloroethane	ND		20.0	19.1		ug/L		96	76 - 121	0	30
1,2-Dichloropropane	ND		20.0	19.9		ug/L		99	77 - 123	1	30
1,3-Dichlorobenzene	ND		20.0	20.6		ug/L		103	80 - 120	1	30
1,4-Dichlorobenzene	ND		20.0	20.1		ug/L		101	80 - 120	2	30
2-Butanone (MEK)	ND		100	88.9		ug/L		89	64 - 120	3	30
2-Hexanone	ND		100	101		ug/L		101	71 - 125	0	30
4-Methyl-2-pentanone (MIBK)	ND		100	102		ug/L		102	78 - 124	1	30
Acetone	ND		100	88.5		ug/L		88	39 - 150	2	30
Benzene	ND		20.0	19.1		ug/L		95	77 - 121	2	30
Bromoform	0.52	J	20.0	19.5		ug/L		95	53 - 120	1	30
Bromomethane	ND		20.0	12.9		ug/L		65	10 - 150	16	30
Carbon disulfide	ND		20.0	22.0		ug/L		110	69 - 133	1	30
Carbon tetrachloride	ND		20.0	20.6		ug/L		103	70 - 132	0	30
Chlorobenzene	ND		20.0	19.8		ug/L		99	80 - 120	1	30
Dibromochloromethane	0.52	J	20.0	20.2		ug/L		99	73 - 120	0	30
Chloroethane	ND		20.0	25.4		ug/L		127	52 - 150	1	30
Chloroform	0.84	J	20.0	20.5		ug/L		98	80 - 120	0	30
Chloromethane	ND		20.0	17.1		ug/L		85	56 - 131	0	30
cis-1,2-Dichloroethene	ND		20.0	20.1		ug/L		101	80 - 120	4	30
Cyclohexane	ND		20.0	20.1		ug/L		100	56 - 150	1	30
Bromodichloromethane	0.67	J	20.0	20.3		ug/L		98	76 - 120	0	30
Dichlorodifluoromethane	ND		20.0	16.7		ug/L		83	50 - 131	1	30
Ethylbenzene	ND		20.0	20.3		ug/L		101	80 - 120	0	30
1,2-Dibromoethane	ND		20.0	19.1		ug/L		96	80 - 120	1	30
Isopropylbenzene	ND		20.0	20.4		ug/L		102	80 - 123	1	30
Methyl acetate	ND		100	113		ug/L		113	66 - 144	1	30
Methyl tert-butyl ether	ND		20.0	21.3		ug/L		106	79 - 122	1	30
Methylcyclohexane	ND		20.0	21.2		ug/L		106	61 - 145	0	30

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

Lab Sample ID: 460-145373-6 MSD
Matrix: Water
Analysis Batch: 480507

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		20.0	22.0		ug/L		110	77 - 123	1	30
Tetrachloroethene	ND		20.0	20.4		ug/L		102	78 - 122	1	30
Toluene	ND		20.0	19.4		ug/L		97	80 - 120	1	30
trans-1,2-Dichloroethene	ND		20.0	21.5		ug/L		107	79 - 120	0	30
trans-1,3-Dichloropropene	ND		20.0	19.4		ug/L		97	76 - 120	4	30
Trichloroethene	2.3		20.0	22.7		ug/L		102	77 - 120	0	30
Trichlorofluoromethane	ND		20.0	20.9		ug/L		105	71 - 143	0	30
Vinyl chloride	ND		20.0	18.1		ug/L		90	62 - 138	1	30
cis-1,3-Dichloropropene	ND		20.0	18.9		ug/L		95	77 - 120	2	30
Styrene	ND		20.0	19.7		ug/L		98	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-479060/1-A
Matrix: Water
Analysis Batch: 479222

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 479060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.044	ug/L		11/21/17 16:52	11/22/17 09:23	1

Lab Sample ID: LCS 460-479060/2-A
Matrix: Water
Analysis Batch: 479222

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 479060

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.407		ug/L		51	10 - 137

Lab Sample ID: 460-145373-6 MS
Matrix: Water
Analysis Batch: 479222

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA
Prep Batch: 479060

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.8		0.800	2.14		ug/L		47	10 - 137

Lab Sample ID: 460-145373-6 MSD
Matrix: Water
Analysis Batch: 479222

Client Sample ID: PDI-1-GW-75-20171117
Prep Type: Total/NA
Prep Batch: 479060

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.8		0.800	2.30		ug/L		67	10 - 137	7	30

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-123864/5
Matrix: Solid
Analysis Batch: 123864

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	380	mg/Kg			11/27/17 17:58	1

Lab Sample ID: LCS 200-123864/6
Matrix: Solid
Analysis Batch: 123864

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	9260	8875		mg/Kg		96	75 - 125

Lab Sample ID: 460-145373-1 MS
Matrix: Solid
Analysis Batch: 123864

Client Sample ID: PDI-1-SO-20-20171117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	ND		35400	34920		mg/Kg		99	75 - 125

Lab Sample ID: 460-145373-1 MSD
Matrix: Solid
Analysis Batch: 123864

Client Sample ID: PDI-1-SO-20-20171117
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	ND		32700	35390		mg/Kg		108	75 - 125	1	20

GC/MS VOA

Prep Batch: 478265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-3	PDI-1-SO-81.5-20171117	Total/NA	Solid	5035	
460-145373-4	PDI-1-SO-82.5-20171117	Total/NA	Solid	5035	
460-145373-5	PDI-1-SO-83.5-20171117	Total/NA	Solid	5035	

Analysis Batch: 480020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-3	PDI-1-SO-81.5-20171117	Total/NA	Solid	8260C	478265
460-145373-4	PDI-1-SO-82.5-20171117	Total/NA	Solid	8260C	478265
460-145373-5	PDI-1-SO-83.5-20171117	Total/NA	Solid	8260C	478265
MB 460-480020/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-480020/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-480020/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 480507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-6	PDI-1-GW-75-20171117	Total/NA	Water	8260C	
460-145373-7	TRIP BLANK - 20171117	Total/NA	Water	8260C	
MB 460-480507/6	Method Blank	Total/NA	Water	8260C	
LCS 460-480507/3	Lab Control Sample	Total/NA	Water	8260C	
460-145373-6 MS	PDI-1-GW-75-20171117	Total/NA	Water	8260C	
460-145373-6 MSD	PDI-1-GW-75-20171117	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 479060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-6	PDI-1-GW-75-20171117	Total/NA	Water	3510C	
MB 460-479060/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-479060/2-A	Lab Control Sample	Total/NA	Water	3510C	
460-145373-6 MS	PDI-1-GW-75-20171117	Total/NA	Water	3510C	
460-145373-6 MSD	PDI-1-GW-75-20171117	Total/NA	Water	3510C	

Analysis Batch: 479222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-6	PDI-1-GW-75-20171117	Total/NA	Water	8270C	479060
MB 460-479060/1-A	Method Blank	Total/NA	Water	8270C	479060
LCS 460-479060/2-A	Lab Control Sample	Total/NA	Water	8270C	479060
460-145373-6 MS	PDI-1-GW-75-20171117	Total/NA	Water	8270C	479060
460-145373-6 MSD	PDI-1-GW-75-20171117	Total/NA	Water	8270C	479060

General Chemistry

Analysis Batch: 123864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-1	PDI-1-SO-20-20171117	Total/NA	Solid	Lloyd Kahn	
460-145373-2	PDI-1-SO-24-20171117	Total/NA	Solid	Lloyd Kahn	
MB 200-123864/5	Method Blank	Total/NA	Solid	Lloyd Kahn	
LCS 200-123864/6	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	
460-145373-1 MS	PDI-1-SO-20-20171117	Total/NA	Solid	Lloyd Kahn	
460-145373-1 MSD	PDI-1-SO-20-20171117	Total/NA	Solid	Lloyd Kahn	

General Chemistry (Continued)

Analysis Batch: 479827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145373-3	PDI-1-SO-81.5-20171117	Total/NA	Solid	Moisture	
460-145373-4	PDI-1-SO-82.5-20171117	Total/NA	Solid	Moisture	
460-145373-5	PDI-1-SO-83.5-20171117	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Client Sample ID: PDI-1-SO-20-20171117
Lab Sample ID: 460-145373-1
Date Collected: 11/17/17 11:00
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	123864	11/27/17 19:32	MJZ	TAL BUR

Client Sample ID: PDI-1-SO-24-20171117
Lab Sample ID: 460-145373-2
Date Collected: 11/17/17 11:05
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	123864	11/27/17 19:51	MJZ	TAL BUR

Client Sample ID: PDI-1-SO-81.5-20171117
Lab Sample ID: 460-145373-3
Date Collected: 11/17/17 13:45
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479827	11/25/17 08:59	BJP	TAL EDI

Client Sample ID: PDI-1-SO-81.5-20171117
Lab Sample ID: 460-145373-3
Date Collected: 11/17/17 13:45
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:11	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480020	11/27/17 08:11	JXC	TAL EDI

Client Sample ID: PDI-1-SO-82.5-20171117
Lab Sample ID: 460-145373-4
Date Collected: 11/17/17 13:50
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479827	11/25/17 08:59	BJP	TAL EDI

Client Sample ID: PDI-1-SO-82.5-20171117
Lab Sample ID: 460-145373-4
Date Collected: 11/17/17 13:50
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:12	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480020	11/27/17 08:35	JXC	TAL EDI

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Client Sample ID: PDI-1-SO-83.5-20171117
Lab Sample ID: 460-145373-5
Date Collected: 11/17/17 13:55
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479827	11/25/17 08:59	BJP	TAL EDI

Client Sample ID: PDI-1-SO-83.5-20171117
Lab Sample ID: 460-145373-5
Date Collected: 11/17/17 13:55
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:12	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480020	11/27/17 08:59	JXC	TAL EDI

Client Sample ID: PDI-1-GW-75-20171117
Lab Sample ID: 460-145373-6
Date Collected: 11/17/17 13:30
Matrix: Water
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	480507	11/29/17 04:38	MZS	TAL EDI
Total/NA	Prep	3510C			479060	11/21/17 16:52	GRB	TAL EDI
Total/NA	Analysis	8270C		1	479222	11/22/17 11:08	SK	TAL EDI

Client Sample ID: TRIP BLANK - 20171117
Lab Sample ID: 460-145373-7
Date Collected: 11/17/17 00:00
Matrix: Water
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	480507	11/29/17 04:12	MZS	TAL EDI

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17
New Hampshire	NELAP	1	2006	12-18-17 *
New Jersey	NELAP	2	VT972	06-30-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17 *
Virginia	NELAP	3	460209	12-14-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145373-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-145373-1	PDI-1-SO-20-20171117	Solid	11/17/17 11:00	11/17/17 20:40
460-145373-2	PDI-1-SO-24-20171117	Solid	11/17/17 11:05	11/17/17 20:40
460-145373-3	PDI-1-SO-81.5-20171117	Solid	11/17/17 13:45	11/17/17 20:40
460-145373-4	PDI-1-SO-82.5-20171117	Solid	11/17/17 13:50	11/17/17 20:40
460-145373-5	PDI-1-SO-83.5-20171117	Solid	11/17/17 13:55	11/17/17 20:40
460-145373-6	PDI-1-GW-75-20171117	Water	11/17/17 13:30	11/17/17 20:40
460-145373-7	TRIP BLANK - 20171117	Water	11/17/17 00:00	11/17/17 20:40

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

11/30/2017

Client Information	Sampler: A. Reilly	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.6
Client Contact: Amy Picunas	Phone: 315-323-2496	E-Mail: becky.mason@testamericainc.com		Page: Page ~~2~~ 1 of 1
Company: CDM Smith, Inc.		Analysis Requested		Job #: 145373
Address: 11 British American Blvd Suite 200	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Latham	TAT Requested (days): Standard			
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			Other:
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N		
~~PDI-1-SW-DUP-20171117~~	~~11/17/17~~		~~G~~	~~Solid~~	N	X						4	
PDI-1-SO-20-20171117	11/17/17	1100	G	Solid	Y					X			1
PDI-1-SO-24-20171117	11/17/17	1105	G	Solid						X			2
PDI-1-SO-81.5-20171117	11/17/17	1345	G	Solid			X						3
PDI-1-SO-82.5-20171117	11/17/17	1350	G	Solid			X						4
PDI-1-SO-83.5-20171117	11/17/17	1355	G	Solid			X						5
PDI-1-GW-75-20171117	11/17/17	1330	G	~~Solid~~ WATER			X	X					6
TRIP BLANK-20171117	11/17/17			~~Solid~~			X						7
				Solid									
				Solid									

SHORT HOLD

460-145373 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	11/17/17 1506	T.A.	[signature]	11/17/17 1600	T.A.
Relinquished by: [signature]	Date/Time: 11/17/17 2040	Company TA	Received by: [signature]	Date/Time: 11/17/17 2040	Company TAEdison
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR#9 7.0°C on Ice

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 145373

Number of Coolers: 1 IR Gun # 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	7.1 °C	7.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: ZT Date: 11/17/17

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

460-145373 Chain of Custody

TestAmerica
LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	No: 50096.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State: New York	Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Job #: 460-145373-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 11/30/2017		
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lloyd_Kahn/ TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-1-SO-20-20171117 (460-145373-1)	11/17/17	11:00 Eastern		Solid			X	1	
PDI-1-SO-20-20171117 (460-145373-1MS)	11/17/17	11:00 Eastern	MS	Solid			X	1	
PDI-1-SO-20-20171117 (460-145373-1MSD)	11/17/17	11:00 Eastern	MSD	Solid			X	1	
PDI-1-SO-24-20171117 (460-145373-2)	11/17/17	11:05 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:
Empty Kit Relinquished by: Date: Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/20/17 1800	Company TAL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 49.65 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 06/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

1 of 3

TRK# 0201 4137 2532 2875

MASTER

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 52.25 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 06/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

2 of 3

MPS# 0263 4137 2532 2886

Mstr# 4137 2532 2875 0201

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

460-145373 Chain of Custody

TestAmerica
LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	No: 50096.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State: New York
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York	Page: Page 1 of 1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 11/30/2017		Job #: 460-145373-1
City: South Burlington	TAT Requested (days):		
State, Zip: VT, 05403			
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:		
Email:	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lloyd_Kahn/ TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-1-SO-20-20171117 (460-145373-1)	11/17/17	11:00 Eastern		Solid			X	1	
PDI-1-SO-20-20171117 (460-145373-1MS)	11/17/17	11:00 Eastern	MS	Solid			X	1	
PDI-1-SO-20-20171117 (460-145373-1MSD)	11/17/17	11:00 Eastern	MSD	Solid			X	1	
PDI-1-SO-24-20171117 (460-145373-2)	11/17/17	11:05 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 11/20/17 1800	Company TAL	Received by:	Date/Time: 11/21/17 0915	Company TABURR	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:			

Ver: 09/20/2016

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 49.65 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 06/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

1 of 3

TRK# 0201 4137 2532 2875

MASTER

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 52.25 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 06/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

2 of 3

MPS# 0263 4137 2532 2886

Mstr# 4137 2532 2875 0201

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-145373-1

Login Number: 145373
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Yes: Received same day of collection; chilling process has begun
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-145373-1

Login Number: 145373
List Number: 2
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 11/21/17 11:42 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1ºC,0.1ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-145387-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Denise L Giglia

Authorized for release by:
12/13/2017 11:03:37 AM
Denise Giglia, Project Management Assistant II
denise.giglia@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 16
QC Sample Results 17
QC Association Summary 27
Lab Chronicle 28
Certification Summary 31
Method Summary 32
Sample Summary 33
Chain of Custody 34
Receipt Checklists 40

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

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

Job ID: 460-145387-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-145387-1

Receipt
The samples were received on 11/17/2017 8:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

Receipt Exceptions
One or more containers for the following sample was received broken or leaking: Trip Blank-20171116 (460-145387-2). 1 of 2 vials received broken.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-480111 was outside the method criteria for the following analyte: Bromoform. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated.

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

General Chemistry
Method Lloyd Kahn: A deviation from the Standard Operating Procedure (SOP) occurred. Details are as follows: No measure of batch precision was analyzed. The variance of the quadruplicate drops of the laboratory control sample was within method limits, however.

Method Lloyd Kahn: The following samples were analyzed outside of analytical holding time due to instrumentation problems, and capacity issues. The samples were received 9 days prior to holding time expiring, but they were analyzed on 12/5/17 (4days after HT expired) within 2x the normal holding time: PDI-1-SO-8-20171117 (460-145387-7), PDI-1-SO-12-20171117 (460-145387-8), PDI-SO-DUP-20171117 (460-145387-9) and PDI-1-SO-16-20171117 (460-145387-10).

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

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Client Sample ID: PDI-2-GW-72-75-201711 — Lab Sample ID: 460-145387-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.0	J	5.0	1.1	ug/L	1		8260C	Total/NA
Bromoform	0.61	J	1.0	0.18	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.47	J	1.0	0.22	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.37	J	1.0	0.15	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.38	J	1.0	0.12	ug/L	1		8260C	Total/NA
Trichloroethene	9.9		1.0	0.22	ug/L	1		8260C	Total/NA

Client Sample ID: Trip Blank-20171116 — Lab Sample ID: 460-145387-2

No Detections.

Client Sample ID: PDI-2-SO-75.5-20171116 — Lab Sample ID: 460-145387-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		4.0	3.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.26	J	0.81	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.53	J	0.81	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.16	J	0.81	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	10		0.81	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-2-SO-76.5-20171116 — Lab Sample ID: 460-145387-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.36	J	0.83	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.17	J	0.83	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.26	J	0.83	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	16		0.83	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-2-SO-77.5-20171116 — Lab Sample ID: 460-145387-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.57	J	0.83	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.33	J	0.83	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29	F1	0.83	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: FD-01-SO-20171116 — Lab Sample ID: 460-145387-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.5		4.1	3.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.28	J	0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.71	J	0.82	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.16	J	0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	10		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-1-SO-8-20171117 — Lab Sample ID: 460-145387-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	3960	H	1000	380	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: PDI-1-SO-12-20171117 — Lab Sample ID: 460-145387-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-1-SO-12-20171117 (Continued) — Lab Sample ID: 460-145387-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	2450	H	1000	380	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: PDI-SO-DUP-20171117 — Lab Sample ID: 460-145387-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	4440	H	1000	380	mg/Kg	1		Lloyd Kahn	Total/NA

Client Sample ID: PDI-1-SO-16-20171117 — Lab Sample ID: 460-145387-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	6610	H	1000	380	mg/Kg	1		Lloyd Kahn	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-2-GW-72-75-201711
Date Collected: 11/16/17 14:20
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145387-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/27/17 16:58	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/27/17 16:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/27/17 16:58	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/27/17 16:58	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/27/17 16:58	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/27/17 16:58	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/27/17 16:58	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/27/17 16:58	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/27/17 16:58	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/27/17 16:58	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/27/17 16:58	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 16:58	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 16:58	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/27/17 16:58	1
2-Hexanone	ND		5.0	0.72	ug/L			11/27/17 16:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/27/17 16:58	1
Acetone	**4.0**	**J**	5.0	1.1	ug/L			11/27/17 16:58	1
Benzene	ND		1.0	0.090	ug/L			11/27/17 16:58	1
Bromoform	**0.61**	**J**	1.0	0.18	ug/L			11/27/17 16:58	1
Bromomethane	ND		1.0	0.18	ug/L			11/27/17 16:58	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/27/17 16:58	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/27/17 16:58	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/17 16:58	1
Dibromochloromethane	**0.47**	**J**	1.0	0.22	ug/L			11/27/17 16:58	1
Chloroethane	ND		1.0	0.37	ug/L			11/27/17 16:58	1
Chloroform	ND		1.0	0.22	ug/L			11/27/17 16:58	1
Chloromethane	ND		1.0	0.22	ug/L			11/27/17 16:58	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/27/17 16:58	1
Cyclohexane	ND		1.0	0.26	ug/L			11/27/17 16:58	1
Bromodichloromethane	**0.37**	**J**	1.0	0.15	ug/L			11/27/17 16:58	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/27/17 16:58	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/27/17 16:58	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/27/17 16:58	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/27/17 16:58	1
Methyl acetate	ND		5.0	0.58	ug/L			11/27/17 16:58	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/27/17 16:58	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/27/17 16:58	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/27/17 16:58	1
Tetrachloroethene	**0.38**	**J**	1.0	0.12	ug/L			11/27/17 16:58	1
Toluene	ND		1.0	0.25	ug/L			11/27/17 16:58	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/27/17 16:58	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/27/17 16:58	1
Trichloroethene	**9.9**		1.0	0.22	ug/L			11/27/17 16:58	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/27/17 16:58	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/27/17 16:58	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/27/17 16:58	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/27/17 16:58	1
Styrene	ND		1.0	0.17	ug/L			11/27/17 16:58	1

Client Sample ID: PDI-2-GW-72-75-201711

Lab Sample ID: 460-145387-1

Date Collected: 11/16/17 14:20

Matrix: Water

Date Received: 11/17/17 20:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*		*11/27/17 16:58*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*11/27/17 16:58*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*11/27/17 16:58*	*1*
Dibromofluoromethane (Surr)	*103*		*72 - 131*		*11/27/17 16:58*	*1*

Client Sample ID: Trip Blank-20171116

Lab Sample ID: 460-145387-2

Date Collected: 11/16/17 00:00

Matrix: Water

Date Received: 11/17/17 20:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/27/17 15:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/27/17 15:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/27/17 15:42	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/27/17 15:42	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/27/17 15:42	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/27/17 15:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/27/17 15:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/27/17 15:42	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/27/17 15:42	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/27/17 15:42	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/27/17 15:42	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 15:42	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 15:42	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/27/17 15:42	1
2-Hexanone	ND		5.0	0.72	ug/L			11/27/17 15:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/27/17 15:42	1
Acetone	ND		5.0	1.1	ug/L			11/27/17 15:42	1
Benzene	ND		1.0	0.090	ug/L			11/27/17 15:42	1
Bromoform	ND		1.0	0.18	ug/L			11/27/17 15:42	1
Bromomethane	ND		1.0	0.18	ug/L			11/27/17 15:42	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/27/17 15:42	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/27/17 15:42	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/17 15:42	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/27/17 15:42	1
Chloroethane	ND		1.0	0.37	ug/L			11/27/17 15:42	1
Chloroform	ND		1.0	0.22	ug/L			11/27/17 15:42	1
Chloromethane	ND		1.0	0.22	ug/L			11/27/17 15:42	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/27/17 15:42	1
Cyclohexane	ND		1.0	0.26	ug/L			11/27/17 15:42	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/27/17 15:42	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/27/17 15:42	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/27/17 15:42	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/27/17 15:42	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/27/17 15:42	1
Methyl acetate	ND		5.0	0.58	ug/L			11/27/17 15:42	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/27/17 15:42	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/27/17 15:42	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/27/17 15:42	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/27/17 15:42	1

Client Sample ID: Trip Blank-20171116

Lab Sample ID: 460-145387-2
Date Collected: 11/16/17 00:00
Matrix: Water
Date Received: 11/17/17 20:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.25	ug/L			11/27/17 15:42	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/27/17 15:42	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/27/17 15:42	1
Trichloroethene	ND		1.0	0.22	ug/L			11/27/17 15:42	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/27/17 15:42	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/27/17 15:42	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/27/17 15:42	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/27/17 15:42	1
Styrene	ND		1.0	0.17	ug/L			11/27/17 15:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*11/27/17 15:42*	*1*
4-Bromofluorobenzene	*92*		*77 - 124*		*11/27/17 15:42*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/27/17 15:42*	*1*
Dibromofluoromethane (Surr)	*105*		*72 - 131*		*11/27/17 15:42*	*1*

Client Sample ID: PDI-2-SO-75.5-20171116

Lab Sample ID: 460-145387-3
Date Collected: 11/16/17 14:00
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.81	0.19	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,1,2,2-Tetrachloroethane	ND		0.81	0.17	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.81	0.24	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,1,2-Trichloroethane	ND		0.81	0.14	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,1-Dichloroethane	ND		0.81	0.17	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,1-Dichloroethene	ND		0.81	0.18	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2,4-Trichlorobenzene	ND		0.81	0.074	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2-Dibromo-3-Chloropropane	ND		0.81	0.37	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2-Dichlorobenzene	ND		0.81	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2-Dichloroethane	ND		0.81	0.24	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2-Dichloropropane	ND		0.81	0.34	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,3-Dichlorobenzene	ND		0.81	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,4-Dichlorobenzene	ND		0.81	0.081	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
2-Butanone (MEK)	ND		4.0	0.90	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
2-Hexanone	ND		4.0	0.63	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	0.54	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Acetone	**11**		4.0	3.1	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Benzene	ND		0.81	0.21	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Bromoform	ND		0.81	0.34	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Bromomethane	ND		0.81	0.38	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Carbon disulfide	ND		0.81	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Carbon tetrachloride	ND		0.81	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Chlorobenzene	ND		0.81	0.14	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Dibromochloromethane	ND		0.81	0.16	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Chloroethane	ND		0.81	0.42	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Chloroform	ND		0.81	0.26	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Chloromethane	ND		0.81	0.35	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
cis-1,2-Dichloroethene	**0.26**	**J**	0.81	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1

Client Sample ID: PDI-2-SO-75.5-20171116

Lab Sample ID: 460-145387-3

Date Collected: 11/16/17 14:00
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		0.81	0.18	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Bromodichloromethane	ND		0.81	0.21	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Dichlorodifluoromethane	ND		0.81	0.27	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Ethylbenzene	ND		0.81	0.16	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
1,2-Dibromoethane	ND		0.81	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Isopropylbenzene	ND		0.81	0.10	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Methyl acetate	ND		4.0	3.5	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Methyl tert-butyl ether	ND		0.81	0.10	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Methylcyclohexane	ND		0.81	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Methylene Chloride	**0.53**	**J**	0.81	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Tetrachloroethene	**0.16**	**J**	0.81	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Toluene	ND		0.81	0.51	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
trans-1,2-Dichloroethene	ND		0.81	0.20	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
trans-1,3-Dichloropropene	ND		0.81	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Trichloroethene	**10**		0.81	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Trichlorofluoromethane	ND		0.81	0.33	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Vinyl chloride	ND		0.81	0.44	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Xylenes, Total	ND		1.6	0.20	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
cis-1,3-Dichloropropene	ND		0.81	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1
Styrene	ND		0.81	0.10	ug/Kg	☼	11/18/17 10:13	11/27/17 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*78 - 135*	*11/18/17 10:13*	*11/27/17 12:41*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*11/18/17 10:13*	*11/27/17 12:41*	*1*
Toluene-d8 (Surr)	*111*		*73 - 121*	*11/18/17 10:13*	*11/27/17 12:41*	*1*
Dibromofluoromethane (Surr)	*110*		*61 - 149*	*11/18/17 10:13*	*11/27/17 12:41*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**15.7**		1.0	1.0	%			11/25/17 10:19	1
Percent Solids	**84.3**		1.0	1.0	%			11/25/17 10:19	1

Client Sample ID: PDI-2-SO-76.5-20171116

Lab Sample ID: 460-145387-4

Date Collected: 11/16/17 14:15
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 81.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.83	0.19	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,1,2,2-Tetrachloroethane	ND		0.83	0.18	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.83	0.25	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,1,2-Trichloroethane	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,1-Dichloroethane	ND		0.83	0.17	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,1-Dichloroethene	ND		0.83	0.19	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2,4-Trichlorobenzene	ND		0.83	0.077	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2-Dibromo-3-Chloropropane	ND		0.83	0.38	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2-Dichlorobenzene	ND		0.83	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2-Dichloroethane	ND		0.83	0.25	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2-Dichloropropane	ND		0.83	0.35	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,3-Dichlorobenzene	ND		0.83	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1

Client Sample ID: PDI-2-SO-76.5-20171116
Date Collected: 11/16/17 14:15
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145387-4
Matrix: Solid
Percent Solids: 81.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	ND		0.83	0.083	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
2-Butanone (MEK)	ND		4.2	0.93	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
2-Hexanone	ND		4.2	0.65	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
4-Methyl-2-pentanone (MIBK)	ND		4.2	0.55	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Acetone	ND		4.2	3.2	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Benzene	ND		0.83	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Bromoform	ND		0.83	0.35	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Bromomethane	ND		0.83	0.40	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Carbon disulfide	ND		0.83	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Carbon tetrachloride	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Chlorobenzene	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Dibromochloromethane	ND		0.83	0.16	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Chloroethane	ND		0.83	0.44	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Chloroform	ND		0.83	0.27	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Chloromethane	ND		0.83	0.36	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
cis-1,2-Dichloroethene	**0.36**	**J**	0.83	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Cyclohexane	ND		0.83	0.18	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Bromodichloromethane	ND		0.83	0.21	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Dichlorodifluoromethane	ND		0.83	0.28	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Ethylbenzene	ND		0.83	0.17	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
1,2-Dibromoethane	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Isopropylbenzene	ND		0.83	0.11	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Methyl acetate	ND		4.2	3.6	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Methyl tert-butyl ether	ND		0.83	0.10	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Methylcyclohexane	ND		0.83	0.13	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Methylene Chloride	**0.17**	**J**	0.83	0.14	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Tetrachloroethene	**0.26**	**J**	0.83	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Toluene	ND		0.83	0.52	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
trans-1,2-Dichloroethene	ND		0.83	0.21	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
trans-1,3-Dichloropropene	ND		0.83	0.22	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Trichloroethene	**16**		0.83	0.12	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Trichlorofluoromethane	ND		0.83	0.34	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Vinyl chloride	ND		0.83	0.46	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Xylenes, Total	ND		1.7	0.21	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
cis-1,3-Dichloropropene	ND		0.83	0.23	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1
Styrene	ND		0.83	0.10	ug/Kg	☼	11/18/17 10:13	11/27/17 13:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*122*		*78 - 135*	*11/18/17 10:13*	*11/27/17 13:05*	*1*
4-Bromofluorobenzene	*99*		*67 - 126*	*11/18/17 10:13*	*11/27/17 13:05*	*1*
Toluene-d8 (Surr)	*110*		*73 - 121*	*11/18/17 10:13*	*11/27/17 13:05*	*1*
Dibromofluoromethane (Surr)	*109*		*61 - 149*	*11/18/17 10:13*	*11/27/17 13:05*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.2**		1.0	1.0	%			11/25/17 10:19	1
Percent Solids	**81.8**		1.0	1.0	%			11/25/17 10:19	1

Client Sample ID: PDI-2-SO-77.5-20171116
Date Collected: 11/16/17 14:30
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145387-5
Matrix: Solid
Percent Solids: 83.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.83	0.19	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,1,2,2-Tetrachloroethane	ND		0.83	0.18	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.83	0.25	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,1,2-Trichloroethane	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,1-Dichloroethane	ND		0.83	0.17	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,1-Dichloroethene	ND		0.83	0.19	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2,4-Trichlorobenzene	ND	F1	0.83	0.076	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2-Dibromo-3-Chloropropane	ND		0.83	0.38	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2-Dichlorobenzene	ND		0.83	0.12	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2-Dichloroethane	ND		0.83	0.25	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2-Dichloropropane	ND		0.83	0.35	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,3-Dichlorobenzene	ND		0.83	0.13	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,4-Dichlorobenzene	ND		0.83	0.083	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
2-Butanone (MEK)	ND		4.1	0.92	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
2-Hexanone	ND		4.1	0.65	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.55	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Acetone	ND		4.1	3.1	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Benzene	ND		0.83	0.21	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Bromoform	ND		0.83	0.35	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Bromomethane	ND		0.83	0.39	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Carbon disulfide	ND		0.83	0.22	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Carbon tetrachloride	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Chlorobenzene	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Dibromochloromethane	ND		0.83	0.16	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Chloroethane	ND		0.83	0.43	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Chloroform	ND		0.83	0.26	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Chloromethane	ND		0.83	0.36	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
cis-1,2-Dichloroethene	**0.57**	**J**	0.83	0.13	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Cyclohexane	ND		0.83	0.18	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Bromodichloromethane	ND		0.83	0.21	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Dichlorodifluoromethane	ND		0.83	0.28	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Ethylbenzene	ND		0.83	0.16	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
1,2-Dibromoethane	ND		0.83	0.15	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Isopropylbenzene	ND		0.83	0.10	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Methyl acetate	ND		4.1	3.6	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Methyl tert-butyl ether	ND		0.83	0.10	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Methylcyclohexane	ND		0.83	0.13	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Methylene Chloride	ND		0.83	0.14	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Tetrachloroethene	**0.33**	**J**	0.83	0.12	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Toluene	ND		0.83	0.52	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
trans-1,2-Dichloroethene	ND		0.83	0.20	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
trans-1,3-Dichloropropene	ND		0.83	0.22	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Trichloroethene	**29**	**F1**	0.83	0.12	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Trichlorofluoromethane	ND		0.83	0.34	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Vinyl chloride	ND		0.83	0.45	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Xylenes, Total	ND		1.7	0.21	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
cis-1,3-Dichloropropene	ND		0.83	0.23	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1
Styrene	ND		0.83	0.10	ug/Kg	☼	11/18/17 10:14	11/27/17 13:30	1

Client Sample ID: PDI-2-SO-77.5-20171116

Lab Sample ID: 460-145387-5

Date Collected: 11/16/17 14:30
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 83.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*78 - 135*	*11/18/17 10:14*	*11/27/17 13:30*	*1*
4-Bromofluorobenzene	*89*		*67 - 126*	*11/18/17 10:14*	*11/27/17 13:30*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*11/18/17 10:14*	*11/27/17 13:30*	*1*
Dibromofluoromethane (Surr)	*98*		*61 - 149*	*11/18/17 10:14*	*11/27/17 13:30*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.9**		1.0	1.0	%			11/25/17 10:19	1
Percent Solids	**83.1**		1.0	1.0	%			11/25/17 10:19	1

Client Sample ID: FD-01-SO-20171116

Lab Sample ID: 460-145387-6

Date Collected: 11/16/17 14:05
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.82	0.19	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,1,2,2-Tetrachloroethane	ND		0.82	0.18	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,1,2-Trichloroethane	ND		0.82	0.15	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,1-Dichloroethane	ND		0.82	0.17	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,1-Dichloroethene	ND		0.82	0.18	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2,4-Trichlorobenzene	ND		0.82	0.076	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2-Dibromo-3-Chloropropane	ND		0.82	0.38	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2-Dichlorobenzene	ND		0.82	0.12	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2-Dichloroethane	ND		0.82	0.24	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2-Dichloropropane	ND		0.82	0.35	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,3-Dichlorobenzene	ND		0.82	0.13	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,4-Dichlorobenzene	ND		0.82	0.082	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
2-Butanone (MEK)	ND		4.1	0.91	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
2-Hexanone	ND		4.1	0.64	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.55	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Acetone	**7.5**		4.1	3.1	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Benzene	ND		0.82	0.21	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Bromoform	ND		0.82	0.35	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Bromomethane	ND		0.82	0.39	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Carbon disulfide	ND		0.82	0.22	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Carbon tetrachloride	ND		0.82	0.15	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Chlorobenzene	ND		0.82	0.15	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Dibromochloromethane	ND		0.82	0.16	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Chloroethane	ND		0.82	0.43	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Chloroform	ND		0.82	0.26	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Chloromethane	ND		0.82	0.36	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
cis-1,2-Dichloroethene	**0.28**	**J**	0.82	0.12	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Cyclohexane	ND		0.82	0.18	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Bromodichloromethane	ND		0.82	0.21	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Dichlorodifluoromethane	ND		0.82	0.28	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Ethylbenzene	ND		0.82	0.16	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
1,2-Dibromoethane	ND		0.82	0.15	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Isopropylbenzene	ND		0.82	0.10	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1

Client Sample ID: FD-01-SO-20171116

Lab Sample ID: 460-145387-6
Date Collected: 11/16/17 14:05
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		4.1	3.5	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Methyl tert-butyl ether	ND		0.82	0.10	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Methylcyclohexane	ND		0.82	0.13	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Methylene Chloride	**0.71**	**J**	0.82	0.13	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Tetrachloroethene	**0.16**	**J**	0.82	0.12	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Toluene	ND		0.82	0.51	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
trans-1,2-Dichloroethene	ND		0.82	0.20	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
trans-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Trichloroethene	**10**		0.82	0.12	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Trichlorofluoromethane	ND		0.82	0.33	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Vinyl chloride	ND		0.82	0.45	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Xylenes, Total	ND		1.6	0.21	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
cis-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1
Styrene	ND		0.82	0.10	ug/Kg	☼	11/18/17 10:15	11/27/17 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*78 - 135*	*11/18/17 10:15*	*11/27/17 16:22*	*1*
4-Bromofluorobenzene	*98*		*67 - 126*	*11/18/17 10:15*	*11/27/17 16:22*	*1*
Toluene-d8 (Surr)	*109*		*73 - 121*	*11/18/17 10:15*	*11/27/17 16:22*	*1*
Dibromofluoromethane (Surr)	*106*		*61 - 149*	*11/18/17 10:15*	*11/27/17 16:22*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.0**		1.0	1.0	%			11/25/17 10:19	1
Percent Solids	**84.0**		1.0	1.0	%			11/25/17 10:19	1

Client Sample ID: PDI-1-SO-8-20171117

Lab Sample ID: 460-145387-7
Date Collected: 11/17/17 09:15
Matrix: Solid
Date Received: 11/17/17 20:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**3960**	**H**	1000	380	mg/Kg			12/05/17 16:52	1

Client Sample ID: PDI-1-SO-12-20171117

Lab Sample ID: 460-145387-8
Date Collected: 11/17/17 09:30
Matrix: Solid
Date Received: 11/17/17 20:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**2450**	**H**	1000	380	mg/Kg			12/05/17 16:59	1

Client Sample ID: PDI-SO-DUP-20171117

Lab Sample ID: 460-145387-9
Date Collected: 11/17/17 09:35
Matrix: Solid
Date Received: 11/17/17 20:40

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**4440**	**H**	1000	380	mg/Kg			12/05/17 17:05	1

Client Sample Results

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Client Sample ID: PDI-1-SO-16-20171117
Date Collected: 11/17/17 09:40
Date Received: 11/17/17 20:40

Lab Sample ID: 460-145387-10
Matrix: Solid

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	6610	H	1000	380	mg/Kg			12/05/17 17:11	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-145387-3	PDI-2-SO-75.5-20171116	124	100	111	110
460-145387-4	PDI-2-SO-76.5-20171116	122	99	110	109
460-145387-5	PDI-2-SO-77.5-20171116	109	89	100	98
460-145387-5 MS	PDI-2-SO-77.5-20171116-MS	125	109	121	123
460-145387-5MSD	PDI-2-SO-77.5-20171116-MSD	117	105	113	115
460-145387-6	FD-01-SO-20171116	118	98	109	106
LCS 460-480111/3	Lab Control Sample	115	105	115	114
LCSD 460-480111/4	Lab Control Sample Dup	112	101	113	113
MB 460-480111/7	Method Blank	96	88	101	92

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-145387-1	PDI-2-GW-72-75-201711	96	91	97	103
460-145387-2	Trip Blank-20171116	98	92	99	105
LCS 460-480036/3	Lab Control Sample	103	98	101	104
MB 460-480036/6	Method Blank	99	91	99	104

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 460-145387-5 MS
Matrix: Solid
Analysis Batch: 480111

Client Sample ID: PDI-2-SO-77.5-20171116-MS
Prep Type: Total/NA
Prep Batch: 478265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		16.7	15.2		ug/Kg	☼	91	80 - 125
1,1,2,2-Tetrachloroethane	ND		16.7	17.5		ug/Kg	☼	105	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16.7	15.1		ug/Kg	☼	90	78 - 132
1,1,2-Trichloroethane	ND		16.7	17.1		ug/Kg	☼	102	76 - 124
1,1-Dichloroethane	ND		16.7	16.5		ug/Kg	☼	99	80 - 124
1,1-Dichloroethene	ND		16.7	15.5		ug/Kg	☼	93	79 - 132
1,2,4-Trichlorobenzene	ND	F1	16.7	12.3		ug/Kg	☼	74	74 - 124
1,2-Dibromo-3-Chloropropane	ND		16.7	12.6		ug/Kg	☼	75	65 - 129
1,2-Dichlorobenzene	ND		16.7	15.0		ug/Kg	☼	90	80 - 121
1,2-Dichloroethane	ND		16.7	17.4		ug/Kg	☼	104	68 - 120
1,2-Dichloropropane	ND		16.7	17.8		ug/Kg	☼	107	77 - 124
1,3-Dichlorobenzene	ND		16.7	14.9		ug/Kg	☼	89	79 - 124
1,4-Dichlorobenzene	ND		16.7	14.7		ug/Kg	☼	88	79 - 121
2-Butanone (MEK)	ND		83.5	77.7		ug/Kg	☼	93	61 - 140
2-Hexanone	ND		83.5	78.0		ug/Kg	☼	93	78 - 120
4-Methyl-2-pentanone (MIBK)	ND		83.5	79.9		ug/Kg	☼	96	80 - 120
Acetone	ND		83.5	75.2		ug/Kg	☼	90	75 - 120
Benzene	ND		16.7	15.7		ug/Kg	☼	94	75 - 127
Bromoform	ND		16.7	13.4		ug/Kg	☼	80	19 - 150
Bromomethane	ND		16.7	17.0		ug/Kg	☼	102	59 - 136
Carbon disulfide	ND		16.7	13.7		ug/Kg	☼	82	74 - 130
Carbon tetrachloride	ND		16.7	14.5		ug/Kg	☼	87	77 - 138
Chlorobenzene	ND		16.7	16.0		ug/Kg	☼	96	80 - 120
Dibromochloromethane	ND		16.7	14.9		ug/Kg	☼	89	67 - 143
Chloroethane	ND		16.7	15.7		ug/Kg	☼	94	50 - 139
Chloroform	ND		16.7	16.6		ug/Kg	☼	100	80 - 122
Chloromethane	ND		16.7	18.2		ug/Kg	☼	109	66 - 128
cis-1,2-Dichloroethene	0.57	J	16.7	16.0		ug/Kg	☼	92	80 - 123
Cyclohexane	ND		16.7	16.0		ug/Kg	☼	96	67 - 135
Bromodichloromethane	ND		16.7	15.6		ug/Kg	☼	94	76 - 129
Dichlorodifluoromethane	ND		16.7	14.1		ug/Kg	☼	84	72 - 127
Ethylbenzene	ND		16.7	15.5		ug/Kg	☼	93	79 - 124
1,2-Dibromoethane	ND		16.7	16.1		ug/Kg	☼	96	80 - 122
Isopropylbenzene	ND		16.7	15.7		ug/Kg	☼	94	80 - 125
Methyl acetate	ND		83.5	88.6		ug/Kg	☼	106	73 - 123
Methyl tert-butyl ether	ND		16.7	16.7		ug/Kg	☼	100	80 - 120
Methylcyclohexane	ND		16.7	16.1		ug/Kg	☼	96	71 - 137
Methylene Chloride	ND		16.7	17.0		ug/Kg	☼	102	79 - 128
Tetrachloroethene	0.33	J	16.7	14.4		ug/Kg	☼	84	73 - 130
Toluene	ND		16.7	14.6		ug/Kg	☼	87	75 - 122
trans-1,2-Dichloroethene	ND		16.7	15.5		ug/Kg	☼	93	80 - 129
trans-1,3-Dichloropropene	ND		16.7	14.1		ug/Kg	☼	84	72 - 121
Trichloroethene	29	F1	16.7	26.0	F1	ug/Kg	☼	-18	79 - 122
Trichlorofluoromethane	ND		16.7	14.8		ug/Kg	☼	88	68 - 136
Vinyl chloride	ND		16.7	18.9		ug/Kg	☼	113	70 - 134
cis-1,3-Dichloropropene	ND		16.7	14.6		ug/Kg	☼	88	75 - 124
Styrene	ND		16.7	15.5		ug/Kg	☼	93	78 - 123

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

Lab Sample ID: 460-145387-5 MS
Matrix: Solid
Analysis Batch: 480111

Client Sample ID: PDI-2-SO-77.5-20171116-MS
Prep Type: Total/NA
Prep Batch: 478265

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*125*		*78 - 135*
4-Bromofluorobenzene	*109*		*67 - 126*
Toluene-d8 (Surr)	*121*		*73 - 121*
Dibromofluoromethane (Surr)	*123*		*61 - 149*

Lab Sample ID: 460-145387-5MSD
Matrix: Solid
Analysis Batch: 480111

Client Sample ID: PDI-2-SO-77.5-20171116-MSD
Prep Type: Total/NA
Prep Batch: 478265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		16.7	13.7		ug/Kg	☼	82	80 - 125	10	30
1,1,2,2-Tetrachloroethane	ND		16.7	15.5		ug/Kg	☼	93	72 - 131	12	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		16.7	14.1		ug/Kg	☼	84	78 - 132	7	30
1,1,2-Trichloroethane	ND		16.7	14.9		ug/Kg	☼	89	76 - 124	14	30
1,1-Dichloroethane	ND		16.7	14.8		ug/Kg	☼	88	80 - 124	11	30
1,1-Dichloroethene	ND		16.7	14.0		ug/Kg	☼	84	79 - 132	10	30
1,2,4-Trichlorobenzene	ND	F1	16.7	11.2	F1	ug/Kg	☼	67	74 - 124	10	30
1,2-Dibromo-3-Chloropropane	ND		16.7	11.7		ug/Kg	☼	70	65 - 129	7	30
1,2-Dichlorobenzene	ND		16.7	13.5		ug/Kg	☼	81	80 - 121	11	30
1,2-Dichloroethane	ND		16.7	15.4		ug/Kg	☼	92	68 - 120	12	30
1,2-Dichloropropane	ND		16.7	15.3		ug/Kg	☼	91	77 - 124	15	30
1,3-Dichlorobenzene	ND		16.7	13.3		ug/Kg	☼	80	79 - 124	11	30
1,4-Dichlorobenzene	ND		16.7	13.2		ug/Kg	☼	79	79 - 121	10	30
2-Butanone (MEK)	ND		83.7	67.1		ug/Kg	☼	80	61 - 140	15	30
2-Hexanone	ND		83.7	68.4		ug/Kg	☼	82	78 - 120	13	30
4-Methyl-2-pentanone (MIBK)	ND		83.7	70.2		ug/Kg	☼	84	80 - 120	13	30
Acetone	ND		83.7	66.1		ug/Kg	☼	79	75 - 120	13	30
Benzene	ND		16.7	14.0		ug/Kg	☼	84	75 - 127	11	30
Bromoform	ND		16.7	11.9		ug/Kg	☼	71	19 - 150	12	30
Bromomethane	ND		16.7	14.0		ug/Kg	☼	84	59 - 136	19	30
Carbon disulfide	ND		16.7	12.6		ug/Kg	☼	75	74 - 130	8	30
Carbon tetrachloride	ND		16.7	13.2		ug/Kg	☼	79	77 - 138	9	30
Chlorobenzene	ND		16.7	14.0		ug/Kg	☼	84	80 - 120	13	30
Dibromochloromethane	ND		16.7	13.7		ug/Kg	☼	82	67 - 143	9	30
Chloroethane	ND		16.7	13.4		ug/Kg	☼	80	50 - 139	16	30
Chloroform	ND		16.7	14.9		ug/Kg	☼	89	80 - 122	11	30
Chloromethane	ND		16.7	14.6		ug/Kg	☼	87	66 - 128	22	30
cis-1,2-Dichloroethene	0.57	J	16.7	14.4		ug/Kg	☼	82	80 - 123	11	30
Cyclohexane	ND		16.7	14.4		ug/Kg	☼	86	67 - 135	11	30
Bromodichloromethane	ND		16.7	14.1		ug/Kg	☼	84	76 - 129	11	30
Dichlorodifluoromethane	ND		16.7	12.1		ug/Kg	☼	72	72 - 127	15	30
Ethylbenzene	ND		16.7	13.9		ug/Kg	☼	83	79 - 124	11	30
1,2-Dibromoethane	ND		16.7	14.2		ug/Kg	☼	85	80 - 122	12	30
Isopropylbenzene	ND		16.7	14.0		ug/Kg	☼	84	80 - 125	11	30
Methyl acetate	ND		83.7	78.7		ug/Kg	☼	94	73 - 123	12	30
Methyl tert-butyl ether	ND		16.7	15.3		ug/Kg	☼	91	80 - 120	9	30
Methylcyclohexane	ND		16.7	14.6		ug/Kg	☼	87	71 - 137	10	30

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

Lab Sample ID: 460-145387-5MSD
Matrix: Solid
Analysis Batch: 480111

Client Sample ID: PDI-2-SO-77.5-20171116-MSD
Prep Type: Total/NA
Prep Batch: 478265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		16.7	15.1		ug/Kg	☼	90	79 - 128	12	30
Tetrachloroethene	0.33	J	16.7	13.0		ug/Kg	☼	76	73 - 130	10	30
Toluene	ND		16.7	13.0		ug/Kg	☼	78	75 - 122	12	30
trans-1,2-Dichloroethene	ND		16.7	14.1		ug/Kg	☼	84	80 - 129	9	30
trans-1,3-Dichloropropene	ND		16.7	12.7		ug/Kg	☼	76	72 - 121	10	30
Trichloroethene	29	F1	16.7	23.2	F1	ug/Kg	☼	-35	79 - 122	11	30
Trichlorofluoromethane	ND		16.7	12.5		ug/Kg	☼	75	68 - 136	16	30
Vinyl chloride	ND		16.7	15.8		ug/Kg	☼	95	70 - 134	18	30
cis-1,3-Dichloropropene	ND		16.7	13.2		ug/Kg	☼	79	75 - 124	11	30
Styrene	ND		16.7	13.5		ug/Kg	☼	81	78 - 123	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*117*		*78 - 135*
4-Bromofluorobenzene	*105*		*67 - 126*
Toluene-d8 (Surr)	*113*		*73 - 121*
Dibromofluoromethane (Surr)	*115*		*61 - 149*

Lab Sample ID: MB 460-480036/6
Matrix: Water
Analysis Batch: 480036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.28	ug/L			11/27/17 11:28	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.19	ug/L			11/27/17 11:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.34	ug/L			11/27/17 11:28	1
1,1,2-Trichloroethane	ND		1.0	0.080	ug/L			11/27/17 11:28	1
1,1-Dichloroethane	ND		1.0	0.24	ug/L			11/27/17 11:28	1
1,1-Dichloroethene	ND		1.0	0.34	ug/L			11/27/17 11:28	1
1,2,4-Trichlorobenzene	ND		1.0	0.27	ug/L			11/27/17 11:28	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.23	ug/L			11/27/17 11:28	1
1,2-Dichlorobenzene	ND		1.0	0.22	ug/L			11/27/17 11:28	1
1,2-Dichloroethane	ND		1.0	0.25	ug/L			11/27/17 11:28	1
1,2-Dichloropropane	ND		1.0	0.18	ug/L			11/27/17 11:28	1
1,3-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 11:28	1
1,4-Dichlorobenzene	ND		1.0	0.33	ug/L			11/27/17 11:28	1
2-Butanone (MEK)	ND		5.0	2.2	ug/L			11/27/17 11:28	1
2-Hexanone	ND		5.0	0.72	ug/L			11/27/17 11:28	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.63	ug/L			11/27/17 11:28	1
Acetone	ND		5.0	1.1	ug/L			11/27/17 11:28	1
Benzene	ND		1.0	0.090	ug/L			11/27/17 11:28	1
Bromoform	ND		1.0	0.18	ug/L			11/27/17 11:28	1
Bromomethane	ND		1.0	0.18	ug/L			11/27/17 11:28	1
Carbon disulfide	ND		1.0	0.22	ug/L			11/27/17 11:28	1
Carbon tetrachloride	ND		1.0	0.33	ug/L			11/27/17 11:28	1
Chlorobenzene	ND		1.0	0.24	ug/L			11/27/17 11:28	1
Dibromochloromethane	ND		1.0	0.22	ug/L			11/27/17 11:28	1
Chloroethane	ND		1.0	0.37	ug/L			11/27/17 11:28	1
Chloroform	ND		1.0	0.22	ug/L			11/27/17 11:28	1

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

Lab Sample ID: MB 460-480036/6
Matrix: Water
Analysis Batch: 480036

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.22	ug/L			11/27/17 11:28	1
cis-1,2-Dichloroethene	ND		1.0	0.26	ug/L			11/27/17 11:28	1
Cyclohexane	ND		1.0	0.26	ug/L			11/27/17 11:28	1
Bromodichloromethane	ND		1.0	0.15	ug/L			11/27/17 11:28	1
Dichlorodifluoromethane	ND		1.0	0.14	ug/L			11/27/17 11:28	1
Ethylbenzene	ND		1.0	0.30	ug/L			11/27/17 11:28	1
1,2-Dibromoethane	ND		1.0	0.19	ug/L			11/27/17 11:28	1
Isopropylbenzene	ND		1.0	0.32	ug/L			11/27/17 11:28	1
Methyl acetate	ND		5.0	0.58	ug/L			11/27/17 11:28	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/L			11/27/17 11:28	1
Methylcyclohexane	ND		1.0	0.22	ug/L			11/27/17 11:28	1
Methylene Chloride	ND		1.0	0.21	ug/L			11/27/17 11:28	1
Tetrachloroethene	ND		1.0	0.12	ug/L			11/27/17 11:28	1
Toluene	ND		1.0	0.25	ug/L			11/27/17 11:28	1
trans-1,2-Dichloroethene	ND		1.0	0.18	ug/L			11/27/17 11:28	1
trans-1,3-Dichloropropene	ND		1.0	0.19	ug/L			11/27/17 11:28	1
Trichloroethene	ND		1.0	0.22	ug/L			11/27/17 11:28	1
Trichlorofluoromethane	ND		1.0	0.15	ug/L			11/27/17 11:28	1
Vinyl chloride	ND		1.0	0.060	ug/L			11/27/17 11:28	1
Xylenes, Total	ND		2.0	0.28	ug/L			11/27/17 11:28	1
cis-1,3-Dichloropropene	ND		1.0	0.16	ug/L			11/27/17 11:28	1
Styrene	ND		1.0	0.17	ug/L			11/27/17 11:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*74 - 132*		*11/27/17 11:28*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*11/27/17 11:28*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*11/27/17 11:28*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*11/27/17 11:28*	*1*

Lab Sample ID: LCS 460-480036/3
Matrix: Water
Analysis Batch: 480036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.9		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	20.4		ug/L		102	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.1		ug/L		85	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	21.0		ug/L		105	77 - 123
1,1-Dichloroethene	20.0	19.5		ug/L		97	74 - 123
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.9		ug/L		89	55 - 134
1,2-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120
1,2-Dichloroethane	20.0	19.9		ug/L		100	76 - 121
1,2-Dichloropropane	20.0	21.4		ug/L		107	77 - 123
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120

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

Lab Sample ID: LCS 460-480036/3
Matrix: Water
Analysis Batch: 480036

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	89.5		ug/L		90	64 - 120
2-Hexanone	100	99.2		ug/L		99	71 - 125
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	78 - 124
Acetone	100	85.6		ug/L		86	39 - 150
Benzene	20.0	20.3		ug/L		101	77 - 121
Bromoform	20.0	19.4		ug/L		97	53 - 120
Bromomethane	20.0	12.7		ug/L		63	10 - 150
Carbon disulfide	20.0	20.6		ug/L		103	69 - 133
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 132
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120
Dibromochloromethane	20.0	20.1		ug/L		100	73 - 120
Chloroethane	20.0	25.0		ug/L		125	52 - 150
Chloroform	20.0	20.7		ug/L		104	80 - 120
Chloromethane	20.0	17.8		ug/L		89	56 - 131
cis-1,2-Dichloroethene	20.0	20.7		ug/L		103	80 - 120
Cyclohexane	20.0	17.8		ug/L		89	56 - 150
Bromodichloromethane	20.0	20.4		ug/L		102	76 - 120
Dichlorodifluoromethane	20.0	12.1		ug/L		60	50 - 131
Ethylbenzene	20.0	20.4		ug/L		102	80 - 120
1,2-Dibromoethane	20.0	19.9		ug/L		100	80 - 120
Isopropylbenzene	20.0	20.7		ug/L		103	80 - 123
Methyl acetate	100	111		ug/L		111	66 - 144
Methyl tert-butyl ether	20.0	19.8		ug/L		99	79 - 122
Methylcyclohexane	20.0	17.3		ug/L		86	61 - 145
Methylene Chloride	20.0	20.9		ug/L		105	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	20.3		ug/L		102	80 - 120
trans-1,2-Dichloroethene	20.0	20.3		ug/L		101	79 - 120
trans-1,3-Dichloropropene	20.0	20.7		ug/L		103	76 - 120
Trichloroethene	20.0	20.4		ug/L		102	77 - 120
Trichlorofluoromethane	20.0	18.0		ug/L		90	71 - 143
Vinyl chloride	20.0	19.6		ug/L		98	62 - 138
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	77 - 120
Styrene	20.0	20.2		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*72 - 131*

Lab Sample ID: MB 460-480111/7
Matrix: Solid
Analysis Batch: 480111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			11/27/17 11:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			11/27/17 11:52	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

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

Lab Sample ID: MB 460-480111/7
Matrix: Solid
Analysis Batch: 480111

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			11/27/17 11:52	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			11/27/17 11:52	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			11/27/17 11:52	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			11/27/17 11:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			11/27/17 11:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			11/27/17 11:52	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			11/27/17 11:52	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			11/27/17 11:52	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			11/27/17 11:52	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			11/27/17 11:52	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			11/27/17 11:52	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			11/27/17 11:52	1
2-Hexanone	ND		5.0	0.78	ug/Kg			11/27/17 11:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			11/27/17 11:52	1
Acetone	ND		5.0	3.8	ug/Kg			11/27/17 11:52	1
Benzene	ND		1.0	0.26	ug/Kg			11/27/17 11:52	1
Bromoform	ND		1.0	0.43	ug/Kg			11/27/17 11:52	1
Bromomethane	ND		1.0	0.47	ug/Kg			11/27/17 11:52	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			11/27/17 11:52	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			11/27/17 11:52	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			11/27/17 11:52	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			11/27/17 11:52	1
Chloroethane	ND		1.0	0.52	ug/Kg			11/27/17 11:52	1
Chloroform	ND		1.0	0.32	ug/Kg			11/27/17 11:52	1
Chloromethane	ND		1.0	0.44	ug/Kg			11/27/17 11:52	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			11/27/17 11:52	1
Cyclohexane	ND		1.0	0.22	ug/Kg			11/27/17 11:52	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			11/27/17 11:52	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			11/27/17 11:52	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			11/27/17 11:52	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			11/27/17 11:52	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			11/27/17 11:52	1
Methyl acetate	ND		5.0	4.3	ug/Kg			11/27/17 11:52	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			11/27/17 11:52	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			11/27/17 11:52	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			11/27/17 11:52	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			11/27/17 11:52	1
Toluene	ND		1.0	0.63	ug/Kg			11/27/17 11:52	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			11/27/17 11:52	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/27/17 11:52	1
Trichloroethene	ND		1.0	0.14	ug/Kg			11/27/17 11:52	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			11/27/17 11:52	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			11/27/17 11:52	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			11/27/17 11:52	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			11/27/17 11:52	1
Styrene	ND		1.0	0.12	ug/Kg			11/27/17 11:52	1

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

Lab Sample ID: MB 460-480111/7
Matrix: Solid
Analysis Batch: 480111

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		78 - 135		11/27/17 11:52	1
4-Bromofluorobenzene	88		67 - 126		11/27/17 11:52	1
Toluene-d8 (Surr)	101		73 - 121		11/27/17 11:52	1
Dibromofluoromethane (Surr)	92		61 - 149		11/27/17 11:52	1

Lab Sample ID: LCS 460-480111/3
Matrix: Solid
Analysis Batch: 480111

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.2		ug/Kg		101	80 - 125
1,1,2,2-Tetrachloroethane	20.0	21.4		ug/Kg		107	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	20.6		ug/Kg		103	78 - 132
1,1,2-Trichloroethane	20.0	20.2		ug/Kg		101	76 - 124
1,1-Dichloroethane	20.0	21.1		ug/Kg		106	80 - 124
1,1-Dichloroethene	20.0	20.4		ug/Kg		102	79 - 132
1,2,4-Trichlorobenzene	20.0	18.0		ug/Kg		90	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.2		ug/Kg		81	65 - 129
1,2-Dichlorobenzene	20.0	20.1		ug/Kg		101	80 - 121
1,2-Dichloroethane	20.0	21.6		ug/Kg		108	68 - 120
1,2-Dichloropropane	20.0	22.3		ug/Kg		112	77 - 124
1,3-Dichlorobenzene	20.0	20.1		ug/Kg		100	79 - 124
1,4-Dichlorobenzene	20.0	19.9		ug/Kg		99	79 - 121
2-Butanone (MEK)	100	98.7		ug/Kg		99	61 - 140
2-Hexanone	100	97.9		ug/Kg		98	78 - 120
4-Methyl-2-pentanone (MIBK)	100	101		ug/Kg		101	80 - 120
Acetone	100	97.1		ug/Kg		97	75 - 120
Benzene	20.0	20.5		ug/Kg		103	75 - 127
Bromoform	20.0	16.3		ug/Kg		81	19 - 150
Bromomethane	20.0	21.7		ug/Kg		108	59 - 136
Carbon disulfide	20.0	18.3		ug/Kg		92	74 - 130
Carbon tetrachloride	20.0	19.4		ug/Kg		97	77 - 138
Chlorobenzene	20.0	20.6		ug/Kg		103	80 - 120
Dibromochloromethane	20.0	18.7		ug/Kg		93	67 - 143
Chloroethane	20.0	22.0		ug/Kg		110	50 - 139
Chloroform	20.0	21.1		ug/Kg		105	80 - 122
Chloromethane	20.0	21.5		ug/Kg		107	66 - 128
cis-1,2-Dichloroethene	20.0	20.2		ug/Kg		101	80 - 123
Cyclohexane	20.0	21.3		ug/Kg		106	67 - 135
Bromodichloromethane	20.0	19.5		ug/Kg		97	76 - 129
Dichlorodifluoromethane	20.0	17.7		ug/Kg		89	72 - 127
Ethylbenzene	20.0	20.7		ug/Kg		103	79 - 124
1,2-Dibromoethane	20.0	19.7		ug/Kg		99	80 - 122
Isopropylbenzene	20.0	20.9		ug/Kg		105	80 - 125
Methyl acetate	100	111		ug/Kg		111	73 - 123
Methyl tert-butyl ether	20.0	20.9		ug/Kg		104	80 - 120
Methylcyclohexane	20.0	21.6		ug/Kg		108	71 - 137

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

Lab Sample ID: LCS 460-480111/3
Matrix: Solid
Analysis Batch: 480111

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			20.0	21.4		ug/Kg		107	79 - 128		
Tetrachloroethene			20.0	19.0		ug/Kg		95	73 - 130		
Toluene			20.0	18.8		ug/Kg		94	75 - 122		
trans-1,2-Dichloroethene			20.0	20.6		ug/Kg		103	80 - 129		
trans-1,3-Dichloropropene			20.0	17.9		ug/Kg		89	72 - 121		
Trichloroethene			20.0	19.6		ug/Kg		98	79 - 122		
Trichlorofluoromethane			20.0	18.4		ug/Kg		92	68 - 136		
Vinyl chloride			20.0	23.2		ug/Kg		116	70 - 134		
cis-1,3-Dichloropropene			20.0	19.1		ug/Kg		96	75 - 124		
Styrene			20.0	20.3		ug/Kg		101	78 - 123		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*115*		*78 - 135*
4-Bromofluorobenzene	*105*		*67 - 126*
Toluene-d8 (Surr)	*115*		*73 - 121*
Dibromofluoromethane (Surr)	*114*		*61 - 149*

Lab Sample ID: LCSD 460-480111/4
Matrix: Solid
Analysis Batch: 480111

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	18.4		ug/Kg		92	80 - 125	9	30
1,1,2,2-Tetrachloroethane			20.0	19.1		ug/Kg		95	72 - 131	11	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	18.8		ug/Kg		94	78 - 132	9	30
1,1,2-Trichloroethane			20.0	18.9		ug/Kg		94	76 - 124	7	30
1,1-Dichloroethane			20.0	19.8		ug/Kg		99	80 - 124	7	30
1,1-Dichloroethene			20.0	18.7		ug/Kg		93	79 - 132	9	30
1,2,4-Trichlorobenzene			20.0	16.5		ug/Kg		83	74 - 124	9	30
1,2-Dibromo-3-Chloropropane			20.0	14.8		ug/Kg		74	65 - 129	9	30
1,2-Dichlorobenzene			20.0	17.8		ug/Kg		89	80 - 121	12	30
1,2-Dichloroethane			20.0	19.4		ug/Kg		97	68 - 120	11	30
1,2-Dichloropropane			20.0	20.1		ug/Kg		100	77 - 124	10	30
1,3-Dichlorobenzene			20.0	17.8		ug/Kg		89	79 - 124	12	30
1,4-Dichlorobenzene			20.0	17.9		ug/Kg		90	79 - 121	10	30
2-Butanone (MEK)			100	87.5		ug/Kg		88	61 - 140	12	30
2-Hexanone			100	87.9		ug/Kg		88	78 - 120	11	30
4-Methyl-2-pentanone (MIBK)			100	89.7		ug/Kg		90	80 - 120	12	30
Acetone			100	84.7		ug/Kg		85	75 - 120	14	30
Benzene			20.0	18.3		ug/Kg		91	75 - 127	11	30
Bromoform			20.0	14.6		ug/Kg		73	19 - 150	11	30
Bromomethane			20.0	21.3		ug/Kg		107	59 - 136	2	30
Carbon disulfide			20.0	16.8		ug/Kg		84	74 - 130	9	30
Carbon tetrachloride			20.0	17.5		ug/Kg		87	77 - 138	10	30
Chlorobenzene			20.0	18.6		ug/Kg		93	80 - 120	10	30
Dibromochloromethane			20.0	16.9		ug/Kg		85	67 - 143	10	30
Chloroethane			20.0	21.9		ug/Kg		110	50 - 139	0	30

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

Lab Sample ID: LCSD 460-480111/4
Matrix: Solid
Analysis Batch: 480111

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloroform	20.0	19.0		ug/Kg		95	80 - 122	11	30
Chloromethane	20.0	22.2		ug/Kg		111	66 - 128	3	30
cis-1,2-Dichloroethene	20.0	18.1		ug/Kg		91	80 - 123	11	30
Cyclohexane	20.0	19.8		ug/Kg		99	67 - 135	7	30
Bromodichloromethane	20.0	17.4		ug/Kg		87	76 - 129	12	30
Dichlorodifluoromethane	20.0	17.6		ug/Kg		88	72 - 127	0	30
Ethylbenzene	20.0	18.8		ug/Kg		94	79 - 124	9	30
1,2-Dibromoethane	20.0	17.8		ug/Kg		89	80 - 122	10	30
Isopropylbenzene	20.0	19.0		ug/Kg		95	80 - 125	10	30
Methyl acetate	100	99.4		ug/Kg		99	73 - 123	11	30
Methyl tert-butyl ether	20.0	18.8		ug/Kg		94	80 - 120	10	30
Methylcyclohexane	20.0	19.6		ug/Kg		98	71 - 137	10	30
Methylene Chloride	20.0	19.3		ug/Kg		97	79 - 128	10	30
Tetrachloroethene	20.0	17.4		ug/Kg		87	73 - 130	9	30
Toluene	20.0	17.2		ug/Kg		86	75 - 122	9	30
trans-1,2-Dichloroethene	20.0	18.8		ug/Kg		94	80 - 129	9	30
trans-1,3-Dichloropropene	20.0	16.6		ug/Kg		83	72 - 121	8	30
Trichloroethene	20.0	17.6		ug/Kg		88	79 - 122	11	30
Trichlorofluoromethane	20.0	18.3		ug/Kg		91	68 - 136	1	30
Vinyl chloride	20.0	23.3		ug/Kg		116	70 - 134	0	30
cis-1,3-Dichloropropene	20.0	17.3		ug/Kg		86	75 - 124	10	30
Styrene	20.0	18.3		ug/Kg		91	78 - 123	10	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 135*
4-Bromofluorobenzene	*101*		*67 - 126*
Toluene-d8 (Surr)	*113*		*73 - 121*
Dibromofluoromethane (Surr)	*113*		*61 - 149*

Method: Lloyd Kahn - Organic Carbon, Total (TOC)

Lab Sample ID: MB 200-124102/5
Matrix: Solid
Analysis Batch: 124102

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	ND		1000	380	mg/Kg			12/05/17 14:14	1

Lab Sample ID: LCS 200-124102/6
Matrix: Solid
Analysis Batch: 124102

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	9260	8738		mg/Kg		94	75 - 125

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Method: Moisture - Percent Moisture

Lab Sample ID: 460-145387-5 DU
Matrix: Solid
Analysis Batch: 479830

Client Sample ID: PDI-2-SO-77.5-20171116
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Percent Moisture	16.9			16.9		%				0.1	20
Percent Solids	83.1			83.1		%				0	20

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

GC/MS VOA

Prep Batch: 478265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145387-3	PDI-2-SO-75.5-20171116	Total/NA	Solid	5035	
460-145387-4	PDI-2-SO-76.5-20171116	Total/NA	Solid	5035	
460-145387-5	PDI-2-SO-77.5-20171116	Total/NA	Solid	5035	
460-145387-6	FD-01-SO-20171116	Total/NA	Solid	5035	
460-145387-5 MS	PDI-2-SO-77.5-20171116-MS	Total/NA	Solid	5035	
460-145387-5MSD	PDI-2-SO-77.5-20171116-MSD	Total/NA	Solid	5035	

Analysis Batch: 480036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145387-1	PDI-2-GW-72-75-201711	Total/NA	Water	8260C	
460-145387-2	Trip Blank-20171116	Total/NA	Water	8260C	
MB 460-480036/6	Method Blank	Total/NA	Water	8260C	
LCS 460-480036/3	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 480111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145387-3	PDI-2-SO-75.5-20171116	Total/NA	Solid	8260C	478265
460-145387-4	PDI-2-SO-76.5-20171116	Total/NA	Solid	8260C	478265
460-145387-5	PDI-2-SO-77.5-20171116	Total/NA	Solid	8260C	478265
460-145387-6	FD-01-SO-20171116	Total/NA	Solid	8260C	478265
MB 460-480111/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-480111/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-480111/4	Lab Control Sample Dup	Total/NA	Solid	8260C	
460-145387-5 MS	PDI-2-SO-77.5-20171116-MS	Total/NA	Solid	8260C	478265
460-145387-5MSD	PDI-2-SO-77.5-20171116-MSD	Total/NA	Solid	8260C	478265

General Chemistry

Analysis Batch: 124102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145387-7	PDI-1-SO-8-20171117	Total/NA	Solid	Lloyd Kahn	
460-145387-8	PDI-1-SO-12-20171117	Total/NA	Solid	Lloyd Kahn	
460-145387-9	PDI-SO-DUP-20171117	Total/NA	Solid	Lloyd Kahn	
460-145387-10	PDI-1-SO-16-20171117	Total/NA	Solid	Lloyd Kahn	
MB 200-124102/5	Method Blank	Total/NA	Solid	Lloyd Kahn	
LCS 200-124102/6	Lab Control Sample	Total/NA	Solid	Lloyd Kahn	

Analysis Batch: 479830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-145387-3	PDI-2-SO-75.5-20171116	Total/NA	Solid	Moisture	
460-145387-4	PDI-2-SO-76.5-20171116	Total/NA	Solid	Moisture	
460-145387-5	PDI-2-SO-77.5-20171116	Total/NA	Solid	Moisture	
460-145387-6	FD-01-SO-20171116	Total/NA	Solid	Moisture	
460-145387-5 MS	PDI-2-SO-77.5-20171116-MS	Total/NA	Solid	Moisture	
460-145387-5MSD	PDI-2-SO-77.5-20171116-MSD	Total/NA	Solid	Moisture	
460-145387-5 DU	PDI-2-SO-77.5-20171116	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Client Sample ID: PDI-2-GW-72-75-201711
Lab Sample ID: 460-145387-1
Date Collected: 11/16/17 14:20
Matrix: Water
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	480036	11/27/17 16:58	SZD	TAL EDI

Client Sample ID: Trip Blank-20171116
Lab Sample ID: 460-145387-2
Date Collected: 11/16/17 00:00
Matrix: Water
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	480036	11/27/17 15:42	SZD	TAL EDI

Client Sample ID: PDI-2-SO-75.5-20171116
Lab Sample ID: 460-145387-3
Date Collected: 11/16/17 14:00
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479830	11/25/17 10:19	BJP	TAL EDI

Client Sample ID: PDI-2-SO-75.5-20171116
Lab Sample ID: 460-145387-3
Date Collected: 11/16/17 14:00
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:13	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480111	11/27/17 12:41	AAT	TAL EDI

Client Sample ID: PDI-2-SO-76.5-20171116
Lab Sample ID: 460-145387-4
Date Collected: 11/16/17 14:15
Matrix: Solid
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479830	11/25/17 10:19	BJP	TAL EDI

Client Sample ID: PDI-2-SO-76.5-20171116
Lab Sample ID: 460-145387-4
Date Collected: 11/16/17 14:15
Matrix: Solid
Date Received: 11/17/17 20:40
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:13	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480111	11/27/17 13:05	AAT	TAL EDI

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Client Sample ID: PDI-2-SO-77.5-20171116 — Lab Sample ID: 460-145387-5

Date Collected: 11/16/17 14:30 — **Matrix: Solid**
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479830	11/25/17 10:19	BJP	TAL EDI

Client Sample ID: PDI-2-SO-77.5-20171116 — Lab Sample ID: 460-145387-5

Date Collected: 11/16/17 14:30 — **Matrix: Solid**
Date Received: 11/17/17 20:40 — **Percent Solids: 83.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:14	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480111	11/27/17 13:30	AAT	TAL EDI

Client Sample ID: FD-01-SO-20171116 — Lab Sample ID: 460-145387-6

Date Collected: 11/16/17 14:05 — **Matrix: Solid**
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	479830	11/25/17 10:19	BJP	TAL EDI

Client Sample ID: FD-01-SO-20171116 — Lab Sample ID: 460-145387-6

Date Collected: 11/16/17 14:05 — **Matrix: Solid**
Date Received: 11/17/17 20:40 — **Percent Solids: 84.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			478265	11/18/17 10:15	DBM	TAL EDI
Total/NA	Analysis	8260C		1	480111	11/27/17 16:22	AAT	TAL EDI

Client Sample ID: PDI-1-SO-8-20171117 — Lab Sample ID: 460-145387-7

Date Collected: 11/17/17 09:15 — **Matrix: Solid**
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	124102	12/05/17 16:52	MJZ	TAL BUR

Client Sample ID: PDI-1-SO-12-20171117 — Lab Sample ID: 460-145387-8

Date Collected: 11/17/17 09:30 — **Matrix: Solid**
Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	124102	12/05/17 16:59	MJZ	TAL BUR

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Client Sample ID: PDI-SO-DUP-20171117

Lab Sample ID: 460-145387-9

Date Collected: 11/17/17 09:35

Matrix: Solid

Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	124102	12/05/17 17:05	MJZ	TAL BUR

Client Sample ID: PDI-1-SO-16-20171117

Lab Sample ID: 460-145387-10

Date Collected: 11/17/17 09:40

Matrix: Solid

Date Received: 11/17/17 20:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Lloyd Kahn		1	124102	12/05/17 17:11	MJZ	TAL BUR

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-17
New Jersey	NELAP	2	12028	06-30-18
New York	NELAP	2	11452	04-01-18
Pennsylvania	NELAP	3	68-00522	02-28-18
Rhode Island	State Program	1	LAO00132	12-30-17
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17 *
New Hampshire	NELAP	1	2006	12-18-17 *
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17 *
Virginia	NELAP	3	460209	12-14-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Lloyd Kahn	Organic Carbon, Total (TOC)	EPA	TAL BUR
Moisture	Percent Moisture	EPA	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-145387-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-145387-1	PDI-2-GW-72-75-201711	Water	11/16/17 14:20	11/17/17 20:40
460-145387-2	Trip Blank-20171116	Water	11/16/17 00:00	11/17/17 20:40
460-145387-3	PDI-2-SO-75.5-20171116	Solid	11/16/17 14:00	11/17/17 20:40
460-145387-4	PDI-2-SO-76.5-20171116	Solid	11/16/17 14:15	11/17/17 20:40
460-145387-5	PDI-2-SO-77.5-20171116	Solid	11/16/17 14:30	11/17/17 20:40
460-145387-6	FD-01-SO-20171116	Solid	11/16/17 14:05	11/17/17 20:40
460-145387-7	PDI-1-SO-8-20171117	Solid	11/17/17 09:15	11/17/17 20:40
460-145387-8	PDI-1-SO-12-20171117	Solid	11/17/17 09:30	11/17/17 20:40
460-145387-9	PDI-SO-DUP-20171117	Solid	11/17/17 09:35	11/17/17 20:40
460-145387-10	PDI-1-SO-16-20171117	Solid	11/17/17 09:40	11/17/17 20:40

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alissa Reilly	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.4
Client Contact: Amy Picunas	Phone: 315-323-2496	E-Mail: becky.mason@testamericainc.com		Page: Page ~~1 of 0~~ 1 of 3
Company: CDM Smith, Inc.		Analysis Requested		Job #: 145387
Address: 11 British American Blvd Suite 200	Due Date Requested:			Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			Other:
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	SHORT HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N			
~~PDI-2-GW-20171116~~	11/16/17		G	Water	N	N	X						3	
PDI-2-GW-72-75-20171116	11/16/17	1420	G	Water	N	N	X						3	1
~~PDI-2-GW-20171116~~	~~11/16/17~~		G	Water	N	N	X						3	
~~PDI-2-GW-20171116~~	~~11/16/17~~		G	Water	N	N	X						3	
~~PDI-2-GW-20171116~~	~~11/16/17~~		G	Water	N	N	X						3	
Trip Blank-20171116	11/16/17		G	Water	N	N	X						2	2
				Water										

460-145387 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		11/17/17 1055			11/17/17 1055	
2		11/17/17 2040			11/17/17 2040	
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

12/13/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alison Rielly	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.5
Client Contact: Amy Picunas	Phone: 315-323-2496	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 5 of~~ 2 of 3
Company: CDM Smith, Inc.				Job #: 145387
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Latham	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			Other:
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Wwater, Ssolid, Oowastewell, BT=Tissue, AmAir)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N		
~~PDI-1-SO-20171116~~	11/16/17		G	Solid	N		X					4	
~~PDI-1-SO-20171116~~	11/16/17		G	Solid	N		X					4	
~~PDI-1-SO-20171116~~	11/16/17		G	Solid	N		X					4	
PDI-2-SO-75.5-20171116	11/16/17	1400	G	Solid	N		X					4	3
PDI-2-SO-76.5-20171116	11/16/17	1415	G	Solid	N		X					4	4
PDI-2-SO-77.5-20171116	11/16/17	1430	G	Solid	N		X					4	5
~~PDI-4-SO-20171116~~	11/16/17		G	Solid	N		X					4	
~~PDI-4-SO-20171116~~	11/16/17		G	Solid	N		X					4	
~~PDI-4-SO-20171116~~	11/16/17		G	Solid	N		X					4	
PDI-2-SO-77.5-20171116-MSD	11/16/17	1430	G	Solid	N	Y	X					4	
PDI-2-SO-77.5-20171116-MS	11/16/17	1430	G	Solid	N	Y	X					4	11/17/17

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/17/17 1055	Company	Received by:	Date/Time: 11/17/17 1105	Company
Relinquished by:	Date/Time: 11/17/17 2040	Company TA	Received by: Joseph Sirois	Date/Time: TA Edison 11/17/17 2040	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ∆ Yes ∆ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: IR#9 1.0°C -

12/13/2017

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Alison Reilly	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-103706-24551.6
Client Contact: Amy Picunas	Phone: 315 323 2496	E-Mail: becky.mason@testamericainc.com		Page: ~~Page 3 of 6~~ 3 of 3
Company: CDM Smith, Inc.				Job #: 145367
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Latham	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: NY, 12110				
Phone:	PO #: Purchase Order not required			Other:
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	8270D_SIM - 1,4-Dioxane	PFC_IDA - PFAS, Standard List	Lloyd_Kahn - TOC	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	N	N		
~~PDI-1-50-DUP-20171116~~	~~11/16/17~~	~~1405~~	~~G~~	~~Solid~~	N	N	X					4	8
FD-01-50-20171116	11/16/17	1405	G	Solid	N	N	X						9
PDI-2-50-8-20171117	11/17/17	915	G	Solid						X			6
PDI-2-50-12-20171117	11/17/17	930	G	Solid						X			7
PDI-50-DUP-20171117	11/17/17	935	G	Solid						X			8
PDI-2-50-16-20171117	11/17/17	940	G	Solid						X			9
				Solid									10
				Solid									
				Solid									
				Solid									
				Solid									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/17/17 1055			11/17/17 10 55	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	11/17/17 2040	TA		11/17/17 2040	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

12/13/2017

Job Number: 145387

TestAmerica Edison
Receipt Temperature and pH Log

Number of Coolers: 1 IR Gun #: 9

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.0 °C	1.0 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JL Date: 11/17/17

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

460-145387 Chain of Custody

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C		96.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-145387-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 11/30/2017			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel) 802-660-1919(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Lloyd_Kahn/ TOC	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-1-SO-8-20171117 (460-145387-7)	11/17/17	09:15 Eastern		Solid			X	1	
PDI-1-SO-12-20171117 (460-145387-8)	11/17/17	09:30 Eastern		Solid			X	1	
PDI-SO-DUP-20171117 (460-145387-9)	11/17/17	09:35 Eastern		Solid			X	1	
PDI-1-SO-16-20171117 (460-145387-10)	11/17/17	09:40 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 11/20/17 1800	Company TAL	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 09/20/2016

12/13/2017

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 49.65 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 05/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

1 of 3

TRK# 0201 4137 2532 2875

MASTER

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Do Not Lift Using This Tag

ORIGIN ID:LDJA (732) 549-3900
SAMPLE CONTROL - BRIAN BORDIERI
TESTAMERICA INC.
777 NEW DURHAM ROAD

EDISON, NJ 08817
UNITED STATES US

SHIP DATE: 20NOV17
ACTWGT: 52.25 LB
CAD: 0358159/CAFE3108

BILL RECIPIENT

Part # 156297-435 RIT2 EXP 05/18

TO SAMPLE CUSTODY
TEST AMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 655-1203
REF: S460-91411

FedEx Express

2 of 3

MPS# 0263 4137 2532 2886

Mstr# 4137 2532 2875 0201

TUE - 21 NOV 10:30A
PRIORITY OVERNIGHT

NC BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-145387-1

Login Number: 145387
List Number: 1
Creator: Rivera, Kenneth

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Refer to Job Narrative for details.
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-145387-1

Login Number: 145387
List Number: 3
Creator: Lavigne, Scott M

List Source: TestAmerica Burlington
List Creation: 11/22/17 03:08 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.1ºC,0.1ºC,0.1ºC
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-150190-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Anthony R Strollo
Project Management Assistant I
3/20/2019 11:18 AM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
03/20/2019

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 14

QC Sample Results 15

Definitions 20

QC Association 21

Chronicle 22

Certification Summary 24

Organic Sample Data 25

GC/MS VOA 25

Method 8260C 25

Method 8260C QC Summary 26

Method 8260C Sample Data 38

Standards Data 85

Method 8260C ICAL Data 85

Method 8260C CCAL Data 136

Raw QC Data 143

Method 8260C Tune Data 143

Method 8260C Blank Data 149

Method 8260C LCS/LCSD Data 156

Method 8260C MS/MSD Data 162

Table of Contents

Method 8260C Run Logs 173

Method 8260C Prep Data 175

Inorganic Sample Data 177

General Chemistry Data 177

Gen Chem Cover Page 178

Gen Chem MDL 179

Gen Chem Analysis Run Log 181

Gen Chem Prep Data 182

Shipping and Receiving Documents 183

Client Chain of Custody 184

Sample Receipt Checklist 185

Job Narrative
480-150190-1

Comments
No additional comments.

Receipt
The samples were received on 3/14/2019 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA
Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-462943 and analytical batch 480-462948 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The data has been qualified and reported.

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150190-1	PDI-33-SO-13-031319	Solid	03/13/19 08:00	03/14/19 01:00
480-150190-2	PDI-133-SO-13-031319	Solid	03/13/19 08:15	03/14/19 01:00
480-150190-3	PDI-34-SO-15-031319	Solid	03/13/19 09:00	03/14/19 01:00
480-150190-4	PDI-35-SO-14-031319	Solid	03/13/19 09:45	03/14/19 01:00
480-150190-5	PDI-36-SO-13.5-031319	Solid	03/13/19 10:15	03/14/19 01:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-33-SO-13-031319 — Lab Sample ID: 480-150190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	24	4.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.0	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.7	J	4.8	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-133-SO-13-031319 — Lab Sample ID: 480-150190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J	24	4.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.5	J	4.8	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-34-SO-15-031319 — Lab Sample ID: 480-150190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.46	J	4.5	0.35	ug/Kg	1	☼	8260C	Total/NA
Acetone	5.5	J	23	3.8	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	6.1		4.5	0.58	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.1	J	4.5	2.1	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	19		4.5	0.61	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	19		4.5	0.99	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-35-SO-14-031319 — Lab Sample ID: 480-150190-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	J F1	24	4.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.75	J	4.9	0.62	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.4	J	4.9	2.2	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.6	J	4.9	0.65	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.7	J	4.9	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-36-SO-13.5-031319 — Lab Sample ID: 480-150190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.6	2.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: PDI-33-SO-13-031319

Date Collected: 03/13/19 08:00
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-1

Matrix: Solid
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2-Trichloroethane	ND		4.8	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1-Dichloroethane	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichlorobenzene	ND		4.8	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,4-Dichlorobenzene	ND		4.8	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Acetone	**13**	**J**	24	4.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Benzene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Carbon tetrachloride	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chlorobenzene	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Dibromochloromethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
cis-1,2-Dichloroethene	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Cyclohexane	ND		4.8	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromodichloromethane	ND		4.8	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dibromoethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Isopropylbenzene	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methylene Chloride	**3.0**	**J**	4.8	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Toluene	ND		4.8	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
trans-1,2-Dichloroethene	ND		4.8	0.50	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Trichloroethene	**2.7**	**J**	4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Trichlorofluoromethane	ND		4.8	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Vinyl chloride	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Xylenes, Total	ND		9.6	0.81	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Styrene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1

Client Sample ID: PDI-33-SO-13-031319

Lab Sample ID: 480-150190-1

Date Collected: 03/13/19 08:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/14/19 10:00*	*03/14/19 13:16*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 10:00*	*03/14/19 13:16*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 13:16*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*03/14/19 10:00*	*03/14/19 13:16*	*1*

Client Sample ID: PDI-133-SO-13-031319

Lab Sample ID: 480-150190-2

Date Collected: 03/13/19 08:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2-Trichloroethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1-Dichloroethane	ND		4.8	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichlorobenzene	ND		4.8	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Acetone	**6.6**	**J**	24	4.0	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Benzene	ND		4.8	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Carbon tetrachloride	ND		4.8	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chlorobenzene	ND		4.8	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Dibromochloromethane	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
cis-1,2-Dichloroethene	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromodichloromethane	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dibromoethane	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Isopropylbenzene	ND		4.8	0.72	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methylene Chloride	**2.6**	**J**	4.8	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Tetrachloroethene	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1

Client Sample ID: PDI-133-SO-13-031319

Date Collected: 03/13/19 08:15
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-2

Matrix: Solid
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.8	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
trans-1,2-Dichloroethene	ND		4.8	0.49	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Trichloroethene	**2.5**	**J**	4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Trichlorofluoromethane	ND		4.8	0.45	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Vinyl chloride	ND		4.8	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Xylenes, Total	ND		9.6	0.80	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Styrene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*03/14/19 10:00*	*03/14/19 13:42*	*1*

Client Sample ID: PDI-34-SO-15-031319

Date Collected: 03/13/19 09:00
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-3

Matrix: Solid
Percent Solids: 77.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2-Trichloroethane	ND		4.5	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichlorobenzene	**0.46**	**J**	4.5	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichloroethane	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichloropropane	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Acetone	**5.5**	**J**	23	3.8	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Benzene	ND		4.5	0.22	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromoform	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromomethane	ND		4.5	0.41	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Carbon disulfide	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Carbon tetrachloride	ND		4.5	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chlorobenzene	ND		4.5	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Dibromochloromethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
cis-1,2-Dichloroethene	**6.1**		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1

Client Sample ID: PDI-34-SO-15-031319

Date Collected: 03/13/19 09:00
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-3

Matrix: Solid
Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dibromoethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methyl acetate	ND		23	2.7	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methylcyclohexane	ND		4.5	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methylene Chloride	**2.1**	**J**	4.5	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Tetrachloroethene	**19**		4.5	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Toluene	ND		4.5	0.34	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
trans-1,2-Dichloroethene	ND		4.5	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Trichloroethene	**19**		4.5	0.99	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Trichlorofluoromethane	ND		4.5	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
cis-1,3-Dichloropropene	ND		4.5	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Styrene	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 10:00*	*03/14/19 14:08*	*1*

Client Sample ID: PDI-35-SO-14-031319

Date Collected: 03/13/19 09:45
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-4

Matrix: Solid
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2,2-Tetrachloroethane	ND	F1	4.9	0.79	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichloroethane	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
2-Butanone (MEK)	ND	F1	24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
4-Methyl-2-pentanone (MIBK)	ND	F1	24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Acetone	**9.1**	**J F1**	24	4.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1

Client Sample ID: PDI-35-SO-14-031319

Date Collected: 03/13/19 09:45
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-4

Matrix: Solid
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chlorobenzene	ND		4.9	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Dibromochloromethane	ND		4.9	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloromethane	ND		4.9	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
cis-1,2-Dichloroethene	**0.75**	**J**	4.9	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Cyclohexane	ND		4.9	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methylene Chloride	**2.4**	**J**	4.9	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Tetrachloroethene	**1.6**	**J**	4.9	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Toluene	ND		4.9	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Trichloroethene	**2.7**	**J**	4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Xylenes, Total	ND		9.7	0.82	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Styrene	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*03/14/19 10:00*	*03/14/19 14:34*	*1*

Client Sample ID: PDI-36-SO-13.5-031319

Date Collected: 03/13/19 10:15
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-5

Matrix: Solid
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1

Client Sample ID: PDI-36-SO-13.5-031319

Date Collected: 03/13/19 10:15
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-5

Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Acetone	**8.9**	**J**	23	3.9	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Benzene	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methylene Chloride	**2.6**	**J**	4.6	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Toluene	ND		4.6	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Styrene	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 10:00*	*03/14/19 15:00*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-150190-1	PDI-33-SO-13-031319	111	103	102	107
480-150190-2	PDI-133-SO-13-031319	109	104	102	108
480-150190-3	PDI-34-SO-15-031319	111	104	102	110
480-150190-4	PDI-35-SO-14-031319	110	103	103	107
480-150190-4 MS	PDI-35-SO-14-031319	101	110	103	107
480-150190-4 MSD	PDI-35-SO-14-031319	101	110	101	107
480-150190-5	PDI-36-SO-13.5-031319	113	105	102	110
LCS 480-462943/1-A	Lab Control Sample	105	109	103	107
MB 480-462943/2-A	Method Blank	107	103	103	106

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-462943/2-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
2-Hexanone	ND		25	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Acetone	ND		25	4.2	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Benzene	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromoform	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloroform	ND		5.0	0.31	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methyl acetate	ND		25	3.0	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Toluene	ND		5.0	0.38	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Styrene	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*03/14/19 09:13*	*03/14/19 12:21*	*1*

Lab Sample ID: LCS 480-462943/1-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.6		ug/Kg		103	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/Kg		101	60 - 140
1,1,2-Trichloroethane	50.0	48.6		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	50.9		ug/Kg		102	59 - 125
1,2,4-Trichlorobenzene	50.0	45.9		ug/Kg		92	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/Kg		88	63 - 124
1,2-Dichlorobenzene	50.0	45.3		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	50.1		ug/Kg		100	75 - 124
1,3-Dichlorobenzene	50.0	46.8		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	256		ug/Kg		102	70 - 134
2-Hexanone	250	239		ug/Kg		95	59 - 130
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		94	65 - 133
Acetone	250	274		ug/Kg		109	61 - 137
Benzene	50.0	51.7		ug/Kg		103	79 - 127
Bromoform	50.0	54.5		ug/Kg		109	68 - 126
Bromomethane	50.0	49.6		ug/Kg		99	37 - 149
Carbon disulfide	50.0	47.4		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	52.8		ug/Kg		106	75 - 135
Chlorobenzene	50.0	49.8		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	50.7		ug/Kg		101	76 - 125
Chloroethane	50.0	42.4		ug/Kg		85	69 - 135
Chloroform	50.0	51.6		ug/Kg		103	80 - 120
Chloromethane	50.0	44.1		ug/Kg		88	63 - 127
cis-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	81 - 120
Cyclohexane	50.0	46.1		ug/Kg		92	65 - 120
Bromodichloromethane	50.0	50.6		ug/Kg		101	80 - 122
Dichlorodifluoromethane	50.0	46.6		ug/Kg		93	57 - 142
Ethylbenzene	50.0	49.4		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	49.7		ug/Kg		99	78 - 120
Isopropylbenzene	50.0	45.3		ug/Kg		91	72 - 120
Methyl acetate	100	91.0		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	49.7		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	49.1		ug/Kg		98	60 - 140
Methylene Chloride	50.0	45.3		ug/Kg		91	61 - 127
Tetrachloroethene	50.0	52.4		ug/Kg		105	74 - 122
Toluene	50.0	49.5		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	73 - 123
Trichloroethene	50.0	52.2		ug/Kg		104	77 - 129

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

Lab Sample ID: LCS 480-462943/1-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	65 - 146
Vinyl chloride	50.0	47.9		ug/Kg		96	61 - 133
cis-1,3-Dichloropropene	50.0	49.9		ug/Kg		100	80 - 120
Styrene	50.0	48.0		ug/Kg		96	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
4-Bromofluorobenzene (Surr)	*109*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Lab Sample ID: 480-150190-4 MS
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		52.8	51.4		ug/Kg	☼	97	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	52.8	37.8	F1	ug/Kg	☼	72	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		52.8	53.0		ug/Kg	☼	101	60 - 140
1,1,2-Trichloroethane	ND		52.8	44.5		ug/Kg	☼	84	78 - 122
1,1-Dichloroethane	ND		52.8	51.4		ug/Kg	☼	97	73 - 126
1,1-Dichloroethene	ND		52.8	50.6		ug/Kg	☼	96	59 - 125
1,2,4-Trichlorobenzene	ND		52.8	45.7		ug/Kg	☼	87	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	52.8	26.2	F1	ug/Kg	☼	50	63 - 124
1,2-Dichlorobenzene	ND		52.8	45.5		ug/Kg	☼	86	75 - 120
1,2-Dichloroethane	ND		52.8	48.0		ug/Kg	☼	91	77 - 122
1,2-Dichloropropane	ND		52.8	50.2		ug/Kg	☼	95	75 - 124
1,3-Dichlorobenzene	ND		52.8	47.0		ug/Kg	☼	89	74 - 120
1,4-Dichlorobenzene	ND		52.8	46.7		ug/Kg	☼	88	73 - 120
2-Butanone (MEK)	ND	F1	264	160	F1	ug/Kg	☼	61	70 - 134
2-Hexanone	ND		264	157		ug/Kg	☼	59	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1	264	169	F1	ug/Kg	☼	64	65 - 133
Acetone	9.1	J F1	264	155	F1	ug/Kg	☼	55	61 - 137
Benzene	ND		52.8	51.9		ug/Kg	☼	98	79 - 127
Bromoform	ND		52.8	45.0		ug/Kg	☼	85	68 - 126
Bromomethane	ND		52.8	60.8		ug/Kg	☼	115	37 - 149
Carbon disulfide	ND		52.8	49.3		ug/Kg	☼	93	64 - 131
Carbon tetrachloride	ND		52.8	52.9		ug/Kg	☼	100	75 - 135
Chlorobenzene	ND		52.8	50.5		ug/Kg	☼	96	76 - 124
Dibromochloromethane	ND		52.8	47.4		ug/Kg	☼	90	76 - 125
Chloroethane	ND		52.8	54.2		ug/Kg	☼	103	69 - 135
Chloroform	ND		52.8	51.8		ug/Kg	☼	98	80 - 120
Chloromethane	ND		52.8	51.4		ug/Kg	☼	97	63 - 127
cis-1,2-Dichloroethene	0.75	J	52.8	53.0		ug/Kg	☼	99	80 - 120
Cyclohexane	ND		52.8	47.5		ug/Kg	☼	90	65 - 120
Bromodichloromethane	ND		52.8	50.2		ug/Kg	☼	95	80 - 122
Dichlorodifluoromethane	ND		52.8	52.7		ug/Kg	☼	100	57 - 142

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

Lab Sample ID: 480-150190-4 MS
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		52.8	49.8		ug/Kg	☼	94	80 - 120
1,2-Dibromoethane	ND		52.8	43.2		ug/Kg	☼	82	78 - 120
Isopropylbenzene	ND		52.8	45.7		ug/Kg	☼	87	72 - 120
Methyl acetate	ND		106	62.8		ug/Kg	☼	60	55 - 136
Methyl tert-butyl ether	ND		52.8	44.8		ug/Kg	☼	85	63 - 125
Methylcyclohexane	ND		52.8	50.5		ug/Kg	☼	96	60 - 140
Methylene Chloride	2.4	J	52.8	47.1		ug/Kg	☼	85	61 - 127
Tetrachloroethene	1.6	J	52.8	55.8		ug/Kg	☼	103	74 - 122
Toluene	ND		52.8	49.9		ug/Kg	☼	95	74 - 128
trans-1,2-Dichloroethene	ND		52.8	52.8		ug/Kg	☼	100	78 - 126
trans-1,3-Dichloropropene	ND		52.8	44.7		ug/Kg	☼	85	73 - 123
Trichloroethene	2.7	J	52.8	54.0		ug/Kg	☼	97	77 - 129
Trichlorofluoromethane	ND		52.8	55.3		ug/Kg	☼	105	65 - 146
Vinyl chloride	ND		52.8	54.3		ug/Kg	☼	103	61 - 133
cis-1,3-Dichloropropene	ND		52.8	48.3		ug/Kg	☼	91	80 - 120
Styrene	ND		52.8	46.8		ug/Kg	☼	89	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Lab Sample ID: 480-150190-4 MSD
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		48.2	44.5		ug/Kg	☼	92	77 - 121	14	30
1,1,2,2-Tetrachloroethane	ND	F1	48.2	36.5	F1	ug/Kg	☼	76	80 - 120	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.2	44.6		ug/Kg	☼	93	60 - 140	17	30
1,1,2-Trichloroethane	ND		48.2	41.5		ug/Kg	☼	86	78 - 122	7	30
1,1-Dichloroethane	ND		48.2	45.2		ug/Kg	☼	94	73 - 126	13	30
1,1-Dichloroethene	ND		48.2	44.4		ug/Kg	☼	92	59 - 125	13	30
1,2,4-Trichlorobenzene	ND		48.2	42.1		ug/Kg	☼	87	64 - 120	8	30
1,2-Dibromo-3-Chloropropane	ND	F1	48.2	27.9	F1	ug/Kg	☼	58	63 - 124	6	30
1,2-Dichlorobenzene	ND		48.2	41.0		ug/Kg	☼	85	75 - 120	10	30
1,2-Dichloroethane	ND		48.2	43.6		ug/Kg	☼	90	77 - 122	10	30
1,2-Dichloropropane	ND		48.2	44.7		ug/Kg	☼	93	75 - 124	12	30
1,3-Dichlorobenzene	ND		48.2	42.1		ug/Kg	☼	87	74 - 120	11	30
1,4-Dichlorobenzene	ND		48.2	41.8		ug/Kg	☼	87	73 - 120	11	30
2-Butanone (MEK)	ND	F1	241	169		ug/Kg	☼	70	70 - 134	5	30
2-Hexanone	ND		241	165		ug/Kg	☼	69	59 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND	F1	241	173		ug/Kg	☼	72	65 - 133	2	30
Acetone	9.1	J F1	241	166		ug/Kg	☼	65	61 - 137	7	30
Benzene	ND		48.2	45.5		ug/Kg	☼	94	79 - 127	13	30
Bromoform	ND		48.2	43.4		ug/Kg	☼	90	68 - 126	3	30

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

Lab Sample ID: 480-150190-4 MSD
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		48.2	51.0		ug/Kg	☼	106	37 - 149	18	30
Carbon disulfide	ND		48.2	42.0		ug/Kg	☼	87	64 - 131	16	30
Carbon tetrachloride	ND		48.2	45.6		ug/Kg	☼	95	75 - 135	15	30
Chlorobenzene	ND		48.2	44.1		ug/Kg	☼	92	76 - 124	13	30
Dibromochloromethane	ND		48.2	43.4		ug/Kg	☼	90	76 - 125	9	30
Chloroethane	ND		48.2	45.5		ug/Kg	☼	94	69 - 135	17	30
Chloroform	ND		48.2	45.6		ug/Kg	☼	95	80 - 120	13	30
Chloromethane	ND		48.2	42.2		ug/Kg	☼	88	63 - 127	20	30
cis-1,2-Dichloroethene	0.75	J	48.2	47.3		ug/Kg	☼	97	80 - 120	11	30
Cyclohexane	ND		48.2	40.1		ug/Kg	☼	83	65 - 120	17	30
Bromodichloromethane	ND		48.2	44.9		ug/Kg	☼	93	80 - 122	11	30
Dichlorodifluoromethane	ND		48.2	42.5		ug/Kg	☼	88	57 - 142	21	30
Ethylbenzene	ND		48.2	43.5		ug/Kg	☼	90	80 - 120	14	30
1,2-Dibromoethane	ND		48.2	40.9		ug/Kg	☼	85	78 - 120	5	30
Isopropylbenzene	ND		48.2	39.3		ug/Kg	☼	82	72 - 120	15	30
Methyl acetate	ND		96.4	64.9		ug/Kg	☼	67	55 - 136	3	30
Methyl tert-butyl ether	ND		48.2	42.9		ug/Kg	☼	89	63 - 125	4	30
Methylcyclohexane	ND		48.2	43.1		ug/Kg	☼	89	60 - 140	16	30
Methylene Chloride	2.4	J	48.2	42.2		ug/Kg	☼	82	61 - 127	11	30
Tetrachloroethene	1.6	J	48.2	49.7		ug/Kg	☼	100	74 - 122	12	30
Toluene	ND		48.2	43.5		ug/Kg	☼	90	74 - 128	14	30
trans-1,2-Dichloroethene	ND		48.2	46.2		ug/Kg	☼	96	78 - 126	13	30
trans-1,3-Dichloropropene	ND		48.2	41.2		ug/Kg	☼	85	73 - 123	8	30
Trichloroethene	2.7	J	48.2	49.5		ug/Kg	☼	97	77 - 129	9	30
Trichlorofluoromethane	ND		48.2	46.9		ug/Kg	☼	97	65 - 146	17	30
Vinyl chloride	ND		48.2	45.8		ug/Kg	☼	95	61 - 133	17	30
cis-1,3-Dichloropropene	ND		48.2	43.5		ug/Kg	☼	90	80 - 120	10	30
Styrene	ND		48.2	41.6		ug/Kg	☼	86	80 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

GC/MS VOA

Prep Batch: 462943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	5035A_L	
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	5035A_L	
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	5035A_L	
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	5035A_L	
MB 480-462943/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-462943/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	

Analysis Batch: 462948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	8260C	462943
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	8260C	462943
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	8260C	462943
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	8260C	462943
MB 480-462943/2-A	Method Blank	Total/NA	Solid	8260C	462943
LCS 480-462943/1-A	Lab Control Sample	Total/NA	Solid	8260C	462943
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943

General Chemistry

Analysis Batch: 463201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	Moisture	
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	Moisture	
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	Moisture	
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	Moisture	
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	

Client Sample ID: PDI-33-SO-13-031319
Lab Sample ID: 480-150190-1
Date Collected: 03/13/19 08:00
Matrix: Solid
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-33-SO-13-031319
Lab Sample ID: 480-150190-1
Date Collected: 03/13/19 08:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 13:16	AEM	TAL BUF

Client Sample ID: PDI-133-SO-13-031319
Lab Sample ID: 480-150190-2
Date Collected: 03/13/19 08:15
Matrix: Solid
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-133-SO-13-031319
Lab Sample ID: 480-150190-2
Date Collected: 03/13/19 08:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 13:42	AEM	TAL BUF

Client Sample ID: PDI-34-SO-15-031319
Lab Sample ID: 480-150190-3
Date Collected: 03/13/19 09:00
Matrix: Solid
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-34-SO-15-031319
Lab Sample ID: 480-150190-3
Date Collected: 03/13/19 09:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 77.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 14:08	AEM	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-35-SO-14-031319
Lab Sample ID: 480-150190-4
Date Collected: 03/13/19 09:45
Matrix: Solid
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-35-SO-14-031319
Lab Sample ID: 480-150190-4
Date Collected: 03/13/19 09:45
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 75.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 14:34	AEM	TAL BUF

Client Sample ID: PDI-36-SO-13.5-031319
Lab Sample ID: 480-150190-5
Date Collected: 03/13/19 10:15
Matrix: Solid
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-36-SO-13.5-031319
Lab Sample ID: 480-150190-5
Date Collected: 03/13/19 10:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 15:00	AEM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 480-150190-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-33-SO-13-031319	480-150190-1	107	111	102	103
PDI-133-SO-13-031319	480-150190-2	108	109	102	104
PDI-34-SO-15-031319	480-150190-3	110	111	102	104
PDI-35-SO-14-031319	480-150190-4	107	110	103	103
PDI-36-SO-13.5-031319	480-150190-5	110	113	102	105
	MB 480-462943/2-A	106	107	103	103
	LCS 480-462943/1-A	107	105	103	109
PDI-35-SO-14-031319 MS	480-150190-4 MS	107	101	103	110
PDI-35-SO-14-031319 MSD	480-150190-4 MSD	107	101	101	110

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9035.D

Lab ID: LCS 480-462943/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	51.6	103	77-121	
1,1,2,2-Tetrachloroethane	50.0	46.7	93	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6	101	60-140	
1,1,2-Trichloroethane	50.0	48.6	97	78-122	
1,1-Dichloroethane	50.0	50.9	102	73-126	
1,1-Dichloroethene	50.0	50.9	102	59-125	
1,2,4-Trichlorobenzene	50.0	45.9	92	64-120	
1,2-Dibromo-3-Chloropropane	50.0	44.1	88	63-124	
1,2-Dichlorobenzene	50.0	45.3	91	75-120	
1,2-Dichloroethane	50.0	50.4	101	77-122	
1,2-Dichloropropane	50.0	50.1	100	75-124	
1,3-Dichlorobenzene	50.0	46.8	94	74-120	
1,4-Dichlorobenzene	50.0	45.9	92	73-120	
2-Butanone (MEK)	250	256	102	70-134	
2-Hexanone	250	239	95	59-130	
4-Methyl-2-pentanone (MIBK)	250	234	94	65-133	
Acetone	250	274	109	61-137	
Benzene	50.0	51.7	103	79-127	
Bromoform	50.0	54.5	109	68-126	
Bromomethane	50.0	49.6	99	37-149	
Carbon disulfide	50.0	47.4	95	64-131	
Carbon tetrachloride	50.0	52.8	106	75-135	
Chlorobenzene	50.0	49.8	100	76-124	
Dibromochloromethane	50.0	50.7	101	76-125	
Chloroethane	50.0	42.4	85	69-135	
Chloroform	50.0	51.6	103	80-120	
Chloromethane	50.0	44.1	88	63-127	
cis-1,2-Dichloroethene	50.0	52.1	104	81-120	
Cyclohexane	50.0	46.1	92	65-120	
Bromodichloromethane	50.0	50.6	101	80-122	
Dichlorodifluoromethane	50.0	46.6	93	57-142	
Ethylbenzene	50.0	49.4	99	80-120	
1,2-Dibromoethane	50.0	49.7	99	78-120	
Isopropylbenzene	50.0	45.3	91	72-120	
Methyl acetate	100	91.0	91	55-136	
Methyl tert-butyl ether	50.0	49.7	99	63-125	
Methylcyclohexane	50.0	49.1	98	60-140	
Methylene Chloride	50.0	45.3	91	61-127	
Tetrachloroethene	50.0	52.4	105	74-122	
Toluene	50.0	49.5	99	74-128	
trans-1,2-Dichloroethene	50.0	53.5	107	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9035.D

Lab ID: LCS 480-462943/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	47.5	95	73-123	
Trichloroethene	50.0	52.2	104	77-129	
Trichlorofluoromethane	50.0	46.7	93	65-146	
Vinyl chloride	50.0	47.9	96	61-133	
cis-1,3-Dichloropropene	50.0	49.9	100	80-120	
Styrene	50.0	48.0	96	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9043.D

Lab ID: 480-150190-4 MS Client ID: PDI-35-SO-14-031319 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	52.8	ND	51.4	97	77-121	
1,1,2,2-Tetrachloroethane	52.8	ND	37.8	72	80-120	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	52.8	ND	53.0	101	60-140	
1,1,2-Trichloroethane	52.8	ND	44.5	84	78-122	
1,1-Dichloroethane	52.8	ND	51.4	97	73-126	
1,1-Dichloroethene	52.8	ND	50.6	96	59-125	
1,2,4-Trichlorobenzene	52.8	ND	45.7	87	64-120	
1,2-Dibromo-3-Chloropropane	52.8	ND	26.2	50	63-124	F1
1,2-Dichlorobenzene	52.8	ND	45.5	86	75-120	
1,2-Dichloroethane	52.8	ND	48.0	91	77-122	
1,2-Dichloropropane	52.8	ND	50.2	95	75-124	
1,3-Dichlorobenzene	52.8	ND	47.0	89	74-120	
1,4-Dichlorobenzene	52.8	ND	46.7	88	73-120	
2-Butanone (MEK)	264	ND	160	61	70-134	F1
2-Hexanone	264	ND	157	59	59-130	
4-Methyl-2-pentanone (MIBK)	264	ND	169	64	65-133	F1
Acetone	264	9.1 J	155	55	61-137	F1
Benzene	52.8	ND	51.9	98	79-127	
Bromoform	52.8	ND	45.0	85	68-126	
Bromomethane	52.8	ND	60.8	115	37-149	
Carbon disulfide	52.8	ND	49.3	93	64-131	
Carbon tetrachloride	52.8	ND	52.9	100	75-135	
Chlorobenzene	52.8	ND	50.5	96	76-124	
Dibromochloromethane	52.8	ND	47.4	90	76-125	
Chloroethane	52.8	ND	54.2	103	69-135	
Chloroform	52.8	ND	51.8	98	80-120	
Chloromethane	52.8	ND	51.4	97	63-127	
cis-1,2-Dichloroethene	52.8	0.75 J	53.0	99	80-120	
Cyclohexane	52.8	ND	47.5	90	65-120	
Bromodichloromethane	52.8	ND	50.2	95	80-122	
Dichlorodifluoromethane	52.8	ND	52.7	100	57-142	
Ethylbenzene	52.8	ND	49.8	94	80-120	
1,2-Dibromoethane	52.8	ND	43.2	82	78-120	
Isopropylbenzene	52.8	ND	45.7	87	72-120	
Methyl acetate	106	ND	62.8	60	55-136	
Methyl tert-butyl ether	52.8	ND	44.8	85	63-125	
Methylcyclohexane	52.8	ND	50.5	96	60-140	
Methylene Chloride	52.8	2.4 J	47.1	85	61-127	
Tetrachloroethene	52.8	1.6 J	55.8	103	74-122	
Toluene	52.8	ND	49.9	95	74-128	
trans-1,2-Dichloroethene	52.8	ND	52.8	100	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9043.D

Lab ID: 480-150190-4 MS Client ID: PDI-35-SO-14-031319 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	52.8	ND	44.7	85	73-123	
Trichloroethene	52.8	2.7 J	54.0	97	77-129	
Trichlorofluoromethane	52.8	ND	55.3	105	65-146	
Vinyl chloride	52.8	ND	54.3	103	61-133	
cis-1,3-Dichloropropene	52.8	ND	48.3	91	80-120	
Styrene	52.8	ND	46.8	89	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9044.D

Lab ID: 480-150190-4 MSD Client ID: PDI-35-SO-14-031319 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	48.2	44.5	92	14	30	77-121	
1,1,2,2-Tetrachloroethane	48.2	36.5	76	3	30	80-120	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	48.2	44.6	93	17	30	60-140	
1,1,2-Trichloroethane	48.2	41.5	86	7	30	78-122	
1,1-Dichloroethane	48.2	45.2	94	13	30	73-126	
1,1-Dichloroethene	48.2	44.4	92	13	30	59-125	
1,2,4-Trichlorobenzene	48.2	42.1	87	8	30	64-120	
1,2-Dibromo-3-Chloropropane	48.2	27.9	58	6	30	63-124	F1
1,2-Dichlorobenzene	48.2	41.0	85	10	30	75-120	
1,2-Dichloroethane	48.2	43.6	90	10	30	77-122	
1,2-Dichloropropane	48.2	44.7	93	12	30	75-124	
1,3-Dichlorobenzene	48.2	42.1	87	11	30	74-120	
1,4-Dichlorobenzene	48.2	41.8	87	11	30	73-120	
2-Butanone (MEK)	241	169	70	5	30	70-134	
2-Hexanone	241	165	69	5	30	59-130	
4-Methyl-2-pentanone (MIBK)	241	173	72	2	30	65-133	
Acetone	241	166	65	7	30	61-137	
Benzene	48.2	45.5	94	13	30	79-127	
Bromoform	48.2	43.4	90	3	30	68-126	
Bromomethane	48.2	51.0	106	18	30	37-149	
Carbon disulfide	48.2	42.0	87	16	30	64-131	
Carbon tetrachloride	48.2	45.6	95	15	30	75-135	
Chlorobenzene	48.2	44.1	92	13	30	76-124	
Dibromochloromethane	48.2	43.4	90	9	30	76-125	
Chloroethane	48.2	45.5	94	17	30	69-135	
Chloroform	48.2	45.6	95	13	30	80-120	
Chloromethane	48.2	42.2	88	20	30	63-127	
cis-1,2-Dichloroethene	48.2	47.3	97	11	30	80-120	
Cyclohexane	48.2	40.1	83	17	30	65-120	
Bromodichloromethane	48.2	44.9	93	11	30	80-122	
Dichlorodifluoromethane	48.2	42.5	88	21	30	57-142	
Ethylbenzene	48.2	43.5	90	14	30	80-120	
1,2-Dibromoethane	48.2	40.9	85	5	30	78-120	
Isopropylbenzene	48.2	39.3	82	15	30	72-120	
Methyl acetate	96.4	64.9	67	3	30	55-136	
Methyl tert-butyl ether	48.2	42.9	89	4	30	63-125	
Methylcyclohexane	48.2	43.1	89	16	30	60-140	
Methylene Chloride	48.2	42.2	82	11	30	61-127	
Tetrachloroethene	48.2	49.7	100	12	30	74-122	
Toluene	48.2	43.5	90	14	30	74-128	
trans-1,2-Dichloroethene	48.2	46.2	96	13	30	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9044.D

Lab ID: 480-150190-4 MSD Client ID: PDI-35-SO-14-031319 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	48.2	41.2	85	8	30	73-123	
Trichloroethene	48.2	49.5	97	9	30	77-129	
Trichlorofluoromethane	48.2	46.9	97	17	30	65-146	
Vinyl chloride	48.2	45.8	95	17	30	61-133	
cis-1,3-Dichloropropene	48.2	43.5	90	10	30	80-120	
Styrene	48.2	41.6	86	12	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab File ID: F9037.D Lab Sample ID: MB 480-462943/2-A

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

Instrument ID: HP5973F Date Analyzed: 03/14/2019 12:21

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-462943/1-A	F9035.D	03/14/2019 11:29
PDI-33-SO-13-031319	480-150190-1	F9038.D	03/14/2019 13:16
PDI-133-SO-13-031319	480-150190-2	F9039.D	03/14/2019 13:42
PDI-34-SO-15-031319	480-150190-3	F9040.D	03/14/2019 14:08
PDI-35-SO-14-031319	480-150190-4	F9041.D	03/14/2019 14:34
PDI-36-SO-13.5-031319	480-150190-5	F9042.D	03/14/2019 15:00
PDI-35-SO-14-031319 MS	480-150190-4 MS	F9043.D	03/14/2019 15:26
PDI-35-SO-14-031319 MSD	480-150190-4 MSD	F9044.D	03/14/2019 15:51

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab File ID: F7811.D BFB Injection Date: 01/11/2019

Instrument ID: HP5973F BFB Injection Time: 10:24

Analysis Batch No.: 454682

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	46.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	86.5	
175	5.0 - 9.0 % of mass 174	6.1	(7.1) 1
176	95.0 - 101.0 % of mass 174	85.5	(98.9) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-454682/6	F7813.D	01/11/2019	11:17
	IC 480-454682/7	F7814.D	01/11/2019	11:43
	IC 480-454682/8	F7815.D	01/11/2019	12:09
	IC 480-454682/9	F7816.D	01/11/2019	12:35
	ICIS 480-454682/10	F7817.D	01/11/2019	13:01
	IC 480-454682/11	F7818.D	01/11/2019	13:27
	IC 480-454682/12	F7819.D	01/11/2019	13:52

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab File ID: F9032.D BFB Injection Date: 03/14/2019

Instrument ID: HP5973F BFB Injection Time: 10:09

Analysis Batch No.: 462948

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	43.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	95.3	
175	5.0 - 9.0 % of mass 174	6.5	(6.8) 1
176	95.0 - 101.0 % of mass 174	92.8	(97.4) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-462948/3	F9033.D	03/14/2019	10:37
	LCS 480-462943/1-A	F9035.D	03/14/2019	11:29
	MB 480-462943/2-A	F9037.D	03/14/2019	12:21
PDI-33-SO-13-031319	480-150190-1	F9038.D	03/14/2019	13:16
PDI-133-SO-13-031319	480-150190-2	F9039.D	03/14/2019	13:42
PDI-34-SO-15-031319	480-150190-3	F9040.D	03/14/2019	14:08
PDI-35-SO-14-031319	480-150190-4	F9041.D	03/14/2019	14:34
PDI-36-SO-13.5-031319	480-150190-5	F9042.D	03/14/2019	15:00
PDI-35-SO-14-031319 MS	480-150190-4 MS	F9043.D	03/14/2019	15:26
PDI-35-SO-14-031319 MSD	480-150190-4 MSD	F9044.D	03/14/2019	15:51

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Sample No.: ICIS 480-454682/10 Date Analyzed: 01/11/2019 13:01

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F7817.D Heated Purge: (Y/N) Y

Calibration ID: 35754

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		222636	5.72	451187	8.58	444175	10.87
UPPER LIMIT		445272	6.22	902374	9.08	888350	11.37
LOWER LIMIT		111318	5.22	225594	8.08	222088	10.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-462948/3		198864	5.73	416671	8.57	422612	10.86

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Sample No.: CCVIS 480-462948/3 Date Analyzed: 03/14/2019 10:37

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F9033.D Heated Purge: (Y/N) Y

Calibration ID: 35757

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		198864	5.73	416671	8.57	422612	10.86
UPPER LIMIT		397728	6.23	833342	9.07	845224	11.36
LOWER LIMIT		99432	5.23	208336	8.07	211306	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-462943/1-A		186224	5.73	394955	8.58	405438	10.86
MB 480-462943/2-A		180501	5.73	387236	8.58	359548	10.86
480-150190-1	PDI-33-SO-13-031319	178450	5.73	378769	8.58	351729	10.86
480-150190-2	PDI-133-SO-13-031319	175585	5.73	374953	8.58	350127	10.86
480-150190-3	PDI-34-SO-15-031319	172265	5.72	370347	8.58	349573	10.86
480-150190-4	PDI-35-SO-14-031319	176757	5.72	375563	8.58	346505	10.87
480-150190-5	PDI-36-SO-13.5-031319	168747	5.73	354402	8.58	338777	10.86
480-150190-4 MS	PDI-35-SO-14-031319 MS	177577	5.73	375964	8.58	388334	10.87
480-150190-4 MSD	PDI-35-SO-14-031319 MSD	185807	5.73	394301	8.58	408553	10.87

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-33-SO-13-031319 | Lab Sample ID: 480-150190-1

Matrix: Solid | Lab File ID: F9038.D

Analysis Method: 8260C | Date Collected: 03/13/2019 08:00

Sample wt/vol: 6.64(g) | Date Analyzed: 03/14/2019 13:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.8	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.8	0.63
75-34-3	1,1-Dichloroethane	ND		4.8	0.59
75-35-4	1,1-Dichloroethene	ND		4.8	0.59
120-82-1	1,2,4-Trichlorobenzene	ND		4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.8	2.4
95-50-1	1,2-Dichlorobenzene	ND		4.8	0.38
107-06-2	1,2-Dichloroethane	ND		4.8	0.24
78-87-5	1,2-Dichloropropane	ND		4.8	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.8	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.8	0.68
78-93-3	2-Butanone (MEK)	ND		24	1.8
591-78-6	2-Hexanone	ND		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	13	J	24	4.1
71-43-2	Benzene	ND		4.8	0.24
75-25-2	Bromoform	ND		4.8	2.4
74-83-9	Bromomethane	ND		4.8	0.43
75-15-0	Carbon disulfide	ND		4.8	2.4
56-23-5	Carbon tetrachloride	ND		4.8	0.47
108-90-7	Chlorobenzene	ND		4.8	0.64
124-48-1	Dibromochloromethane	ND		4.8	0.62
75-00-3	Chloroethane	ND		4.8	1.1
67-66-3	Chloroform	ND		4.8	0.30
74-87-3	Chloromethane	ND		4.8	0.29
156-59-2	cis-1,2-Dichloroethene	ND		4.8	0.62
110-82-7	Cyclohexane	ND		4.8	0.68
75-27-4	Bromodichloromethane	ND		4.8	0.65
75-71-8	Dichlorodifluoromethane	ND		4.8	0.40
100-41-4	Ethylbenzene	ND		4.8	0.33
106-93-4	1,2-Dibromoethane	ND		4.8	0.62
98-82-8	Isopropylbenzene	ND		4.8	0.73
79-20-9	Methyl acetate	ND		24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-33-SO-13-031319 | Lab Sample ID: 480-150190-1

Matrix: Solid | Lab File ID: F9038.D

Analysis Method: 8260C | Date Collected: 03/13/2019 08:00

Sample wt/vol: 6.64(g) | Date Analyzed: 03/14/2019 13:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.8	0.47
108-87-2	Methylcyclohexane	ND		4.8	0.73
75-09-2	Methylene Chloride	3.0	J	4.8	2.2
127-18-4	Tetrachloroethene	ND		4.8	0.65
108-88-3	Toluene	ND		4.8	0.36
156-60-5	trans-1,2-Dichloroethene	ND		4.8	0.50
10061-02-6	trans-1,3-Dichloropropene	ND		4.8	2.1
79-01-6	Trichloroethene	2.7	J	4.8	1.1
75-69-4	Trichlorofluoromethane	ND		4.8	0.46
75-01-4	Vinyl chloride	ND		4.8	0.59
1330-20-7	Xylenes, Total	ND		9.6	0.81
10061-01-5	cis-1,3-Dichloropropene	ND		4.8	0.69
100-42-5	Styrene	ND		4.8	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9038.D
Lims ID: 480-150190-C-1-A
Client ID: PDI-33-SO-13-031319
Sample Type: Client
Inject. Date: 14-Mar-2019 13:16:30 ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-1-A
Misc. Info.: 480-0079374-008
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 14:57:20 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 17:55:39

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	178450	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	378769	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	351729	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	221130	53.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	146817	55.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	913075	51.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	96	308974	51.4	
10 Dichlorodifluoromethane	85		2.122				ND	
12 Chloromethane	50		2.323				ND	
13 Vinyl chloride	62		2.420				ND	
14 Bromomethane	94		2.737				ND	
15 Chloroethane	64		2.804				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.424				ND	
23 Acetone	43	3.454	3.461	-0.007	99	26390	13.5	
26 Carbon disulfide	76		3.649				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.807	3.808	-0.001	91	16795	3.08	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96		4.799				ND	
50 Chloroform	83		5.042				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.249				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.517				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	97	14122	2.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166	7.725	7.725	0.000	83	1444	0.2372	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.145				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

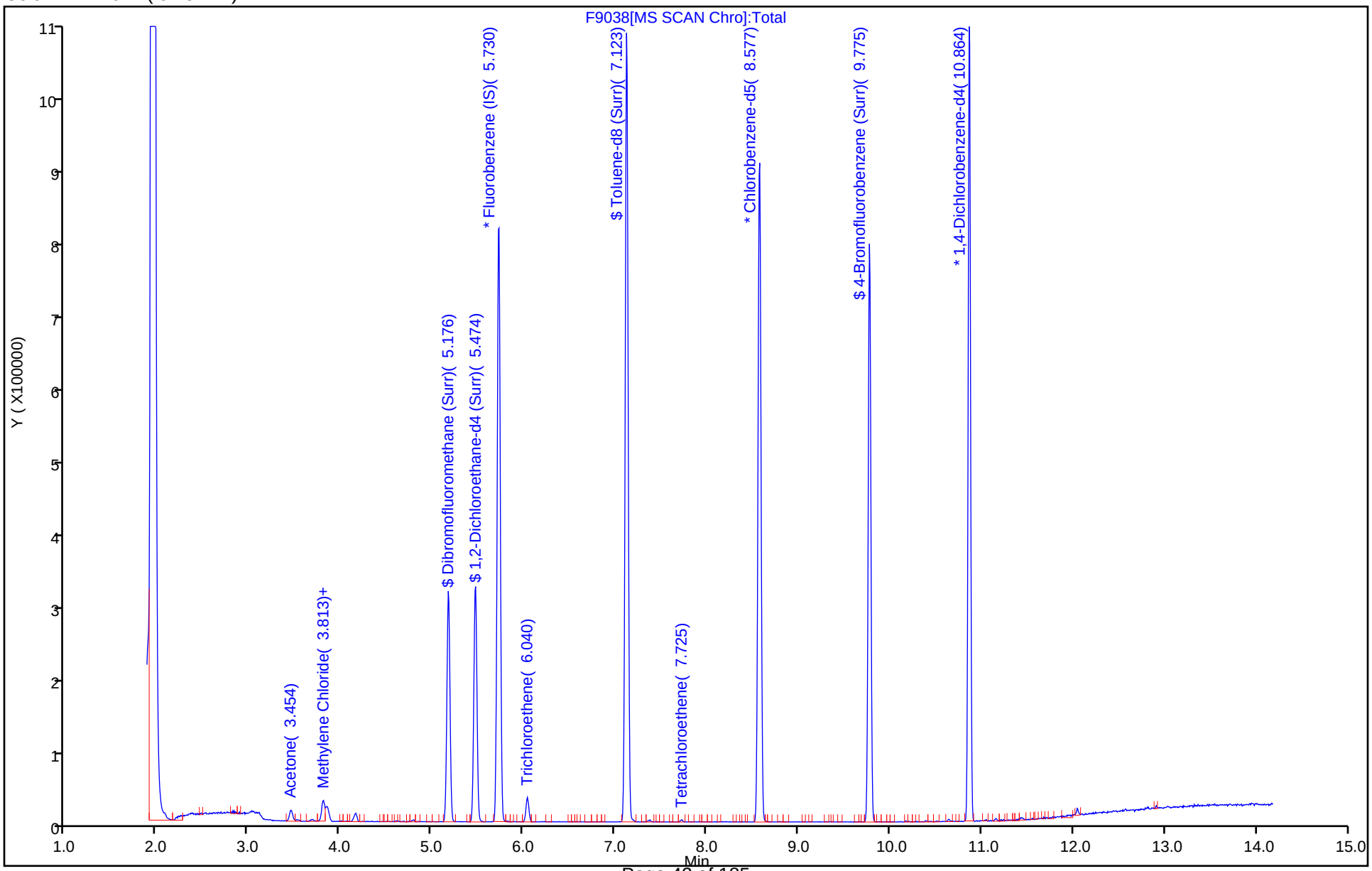
Report Date: 14-Mar-2019 17:55:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9038.D

Injection Date:	14-Mar-2019 13:16:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-1-A	Lab Sample ID:	480-150190-1	Worklist Smp#:	8
Client ID:	PDI-33-SO-13-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



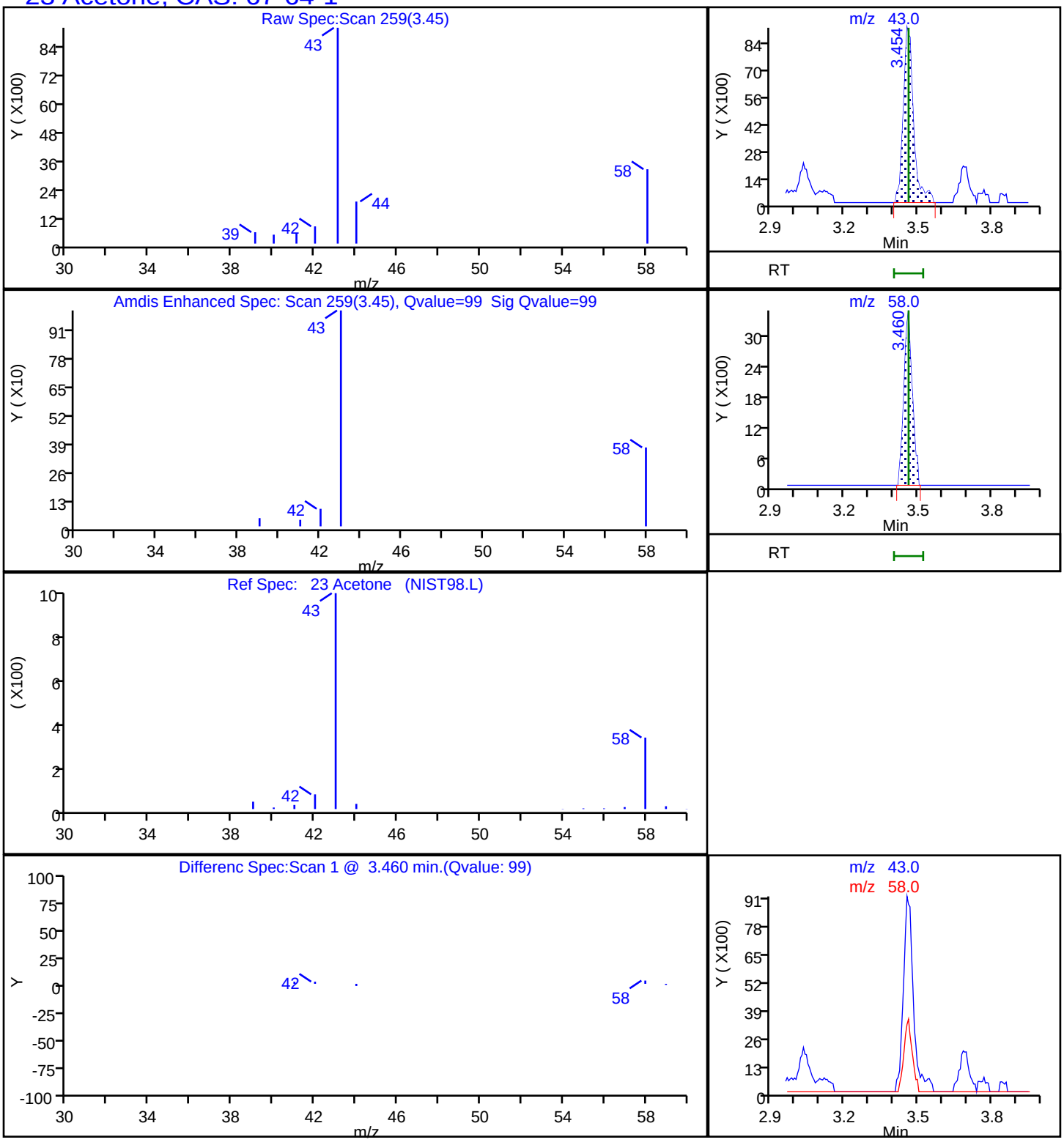
Report Date: 14-Mar-2019 17:55:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9038.D

Injection Date:	14-Mar-2019 13:16:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-1-A	Lab Sample ID:	480-150190-1
Client ID:	PDI-33-SO-13-031319		
Operator ID:	CDC	ALS Bottle#:	1 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



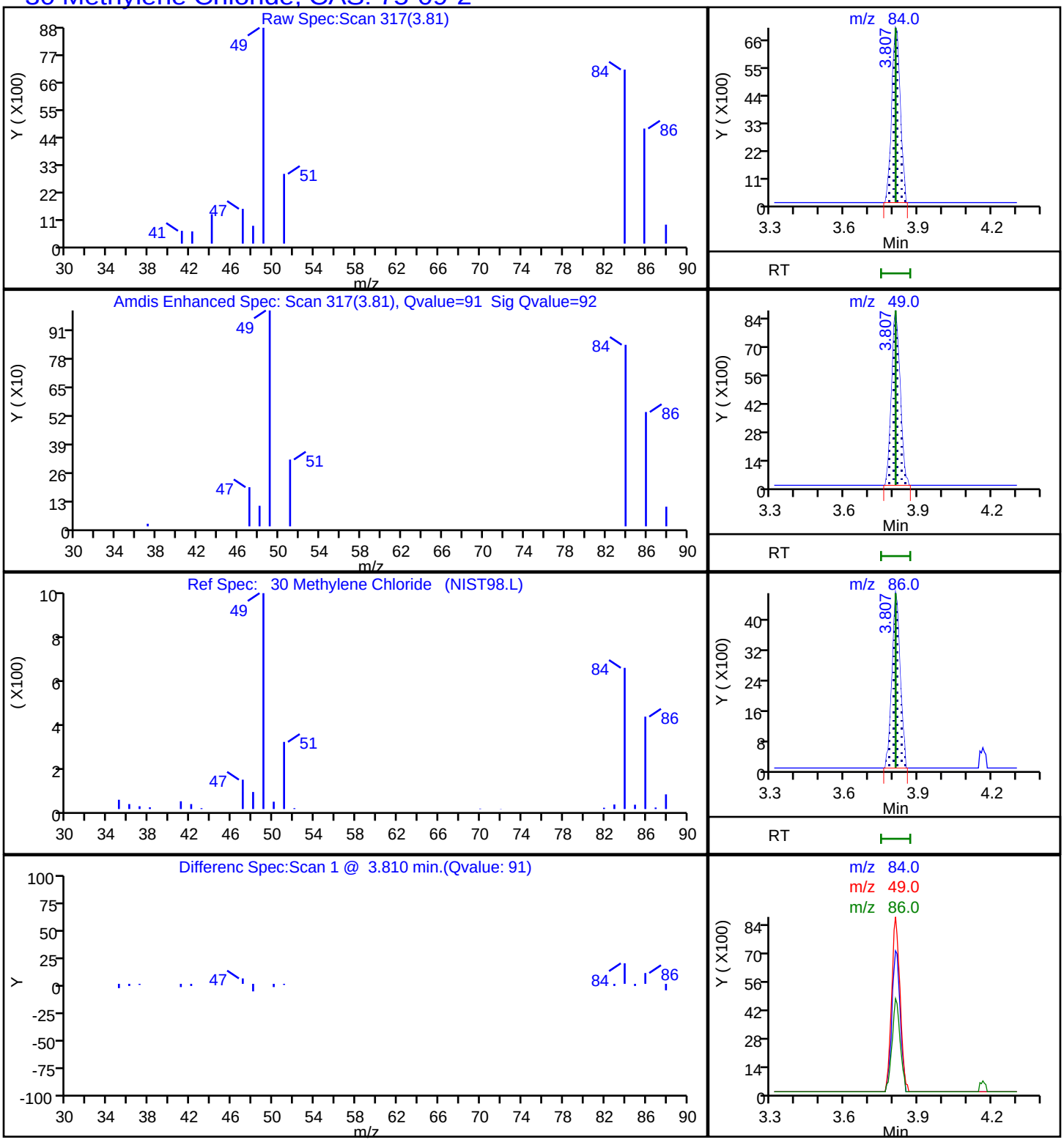
Report Date: 14-Mar-2019 17:55:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9038.D

Injection Date:	14-Mar-2019 13:16:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-1-A	Lab Sample ID:	480-150190-1		
Client ID:	PDI-33-SO-13-031319				
Operator ID:	CDC	ALS Bottle#:	1	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



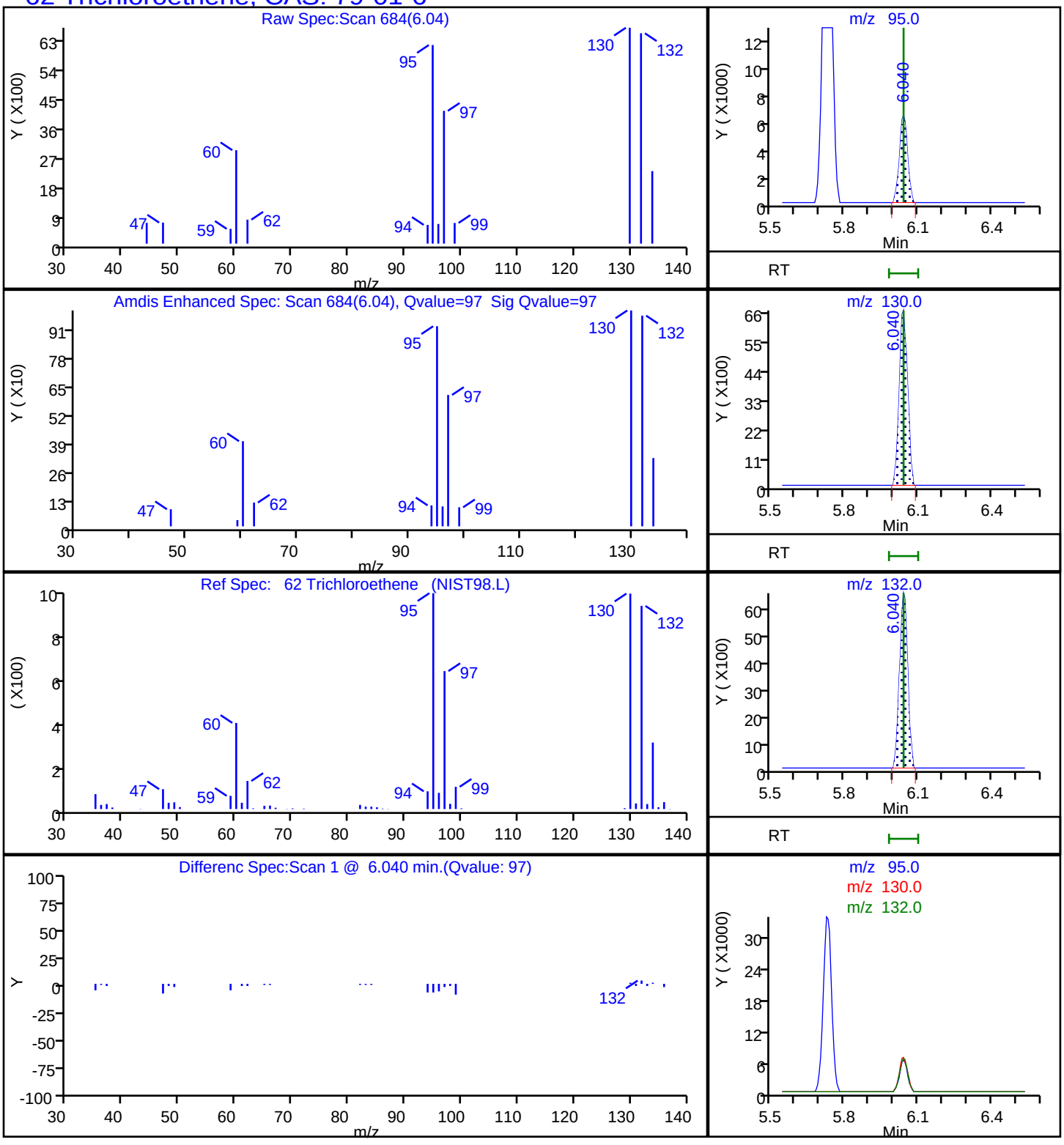
Report Date: 14-Mar-2019 17:55:40 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9038.D

Injection Date:	14-Mar-2019 13:16:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-1-A	Lab Sample ID:	480-150190-1
Client ID:	PDI-33-SO-13-031319		
Operator ID:	CDC	ALS Bottle#:	1 Worklist Smp#: 8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-133-SO-13-031319 | Lab Sample ID: 480-150190-2

Matrix: Solid | Lab File ID: F9039.D

Analysis Method: 8260C | Date Collected: 03/13/2019 08:15

Sample wt/vol: 6.64(g) | Date Analyzed: 03/14/2019 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.3 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.8	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.8	0.62
75-34-3	1,1-Dichloroethane	ND		4.8	0.58
75-35-4	1,1-Dichloroethene	ND		4.8	0.59
120-82-1	1,2,4-Trichlorobenzene	ND		4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.8	2.4
95-50-1	1,2-Dichlorobenzene	ND		4.8	0.37
107-06-2	1,2-Dichloroethane	ND		4.8	0.24
78-87-5	1,2-Dichloropropane	ND		4.8	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.8	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.8	0.67
78-93-3	2-Butanone (MEK)	ND		24	1.8
591-78-6	2-Hexanone	ND		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		24	1.6
67-64-1	Acetone	6.6	J	24	4.0
71-43-2	Benzene	ND		4.8	0.23
75-25-2	Bromoform	ND		4.8	2.4
74-83-9	Bromomethane	ND		4.8	0.43
75-15-0	Carbon disulfide	ND		4.8	2.4
56-23-5	Carbon tetrachloride	ND		4.8	0.46
108-90-7	Chlorobenzene	ND		4.8	0.63
124-48-1	Dibromochloromethane	ND		4.8	0.61
75-00-3	Chloroethane	ND		4.8	1.1
67-66-3	Chloroform	ND		4.8	0.30
74-87-3	Chloromethane	ND		4.8	0.29
156-59-2	cis-1,2-Dichloroethene	ND		4.8	0.61
110-82-7	Cyclohexane	ND		4.8	0.67
75-27-4	Bromodichloromethane	ND		4.8	0.64
75-71-8	Dichlorodifluoromethane	ND		4.8	0.40
100-41-4	Ethylbenzene	ND		4.8	0.33
106-93-4	1,2-Dibromoethane	ND		4.8	0.61
98-82-8	Isopropylbenzene	ND		4.8	0.72
79-20-9	Methyl acetate	ND		24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-133-SO-13-031319 | Lab Sample ID: 480-150190-2

Matrix: Solid | Lab File ID: F9039.D

Analysis Method: 8260C | Date Collected: 03/13/2019 08:15

Sample wt/vol: 6.64(g) | Date Analyzed: 03/14/2019 13:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.3 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.8	0.47
108-87-2	Methylcyclohexane	ND		4.8	0.73
75-09-2	Methylene Chloride	2.6	J	4.8	2.2
127-18-4	Tetrachloroethene	ND		4.8	0.64
108-88-3	Toluene	ND		4.8	0.36
156-60-5	trans-1,2-Dichloroethene	ND		4.8	0.49
10061-02-6	trans-1,3-Dichloropropene	ND		4.8	2.1
79-01-6	Trichloroethene	2.5	J	4.8	1.1
75-69-4	Trichlorofluoromethane	ND		4.8	0.45
75-01-4	Vinyl chloride	ND		4.8	0.58
1330-20-7	Xylenes, Total	ND		9.6	0.80
10061-01-5	cis-1,3-Dichloropropene	ND		4.8	0.69
100-42-5	Styrene	ND		4.8	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		64-126
460-00-4	4-Bromofluorobenzene (Surr)	104		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	108		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D
Lims ID: 480-150190-C-2-A
Client ID: PDI-133-SO-13-031319
Sample Type: Client
Inject. Date: 14-Mar-2019 13:42:30 ALS Bottle#: 2 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-2-A
Misc. Info.: 480-0079374-009
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 17:57:01 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 17:57:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	175585	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	374953	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	350127	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	95	218921	53.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	142798	54.6	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	901916	51.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.781	9.775	0.006	97	309857	52.1	
10 Dichlorodifluoromethane	85		2.122				ND	
12 Chloromethane	50		2.323				ND	
13 Vinyl chloride	62		2.420				ND	
14 Bromomethane	94		2.737				ND	
15 Chloroethane	64		2.804				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.424				ND	
23 Acetone	43	3.467	3.461	0.006	99	13355	6.95	
26 Carbon disulfide	76		3.649				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.820	3.808	0.012	91	14352	2.68	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96	4.793	4.793	-0.006	73	863	0.1588	7Ma
50 Chloroform	83		5.042				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.249				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.517				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	95	13084	2.62	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166	7.725	7.725	0.000	81	1702	0.2824	Ma
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.145				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

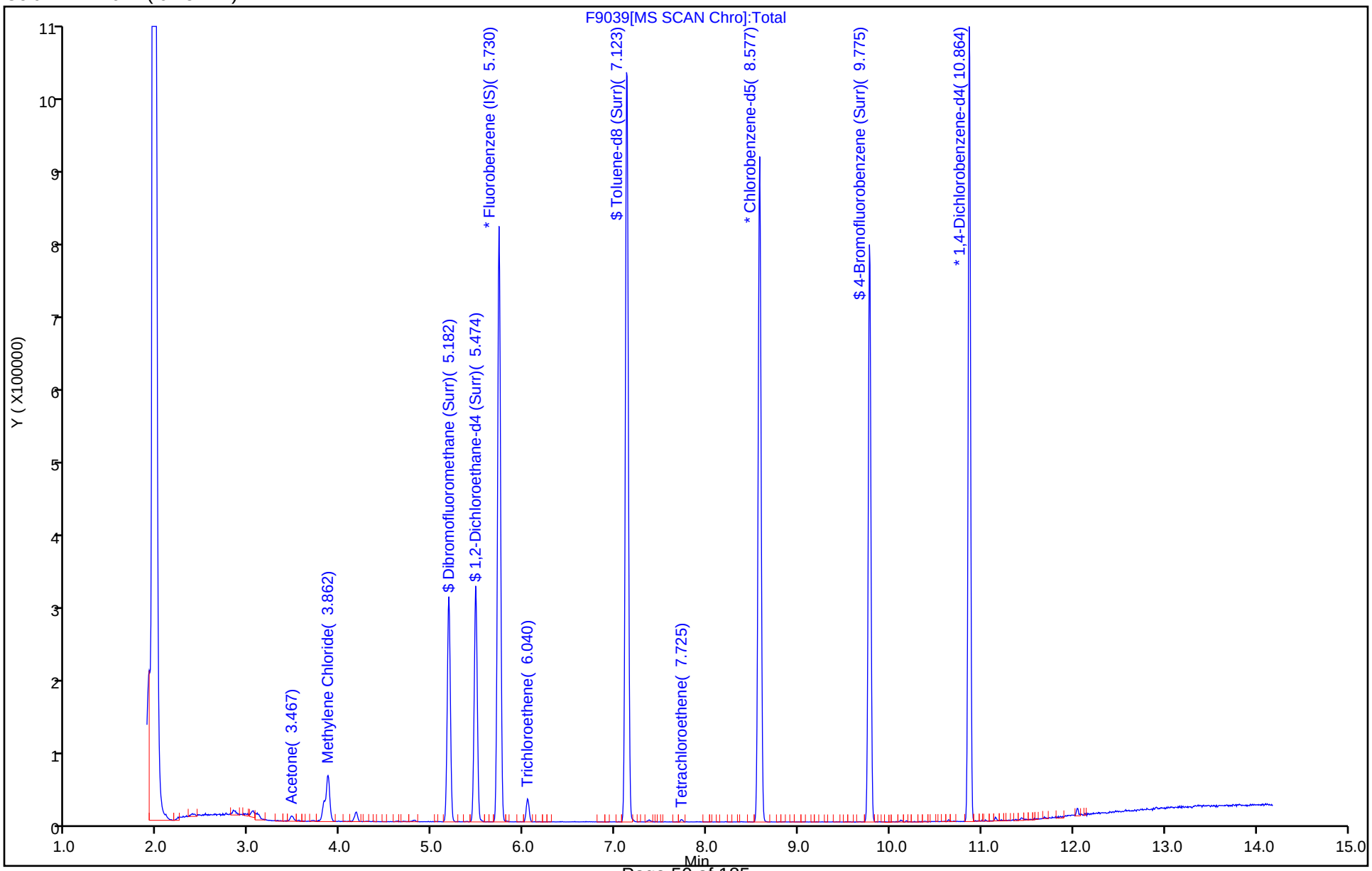
Report Date: 14-Mar-2019 17:57:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D

Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2	Worklist Smp#:	9
Client ID:	PDI-133-SO-13-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



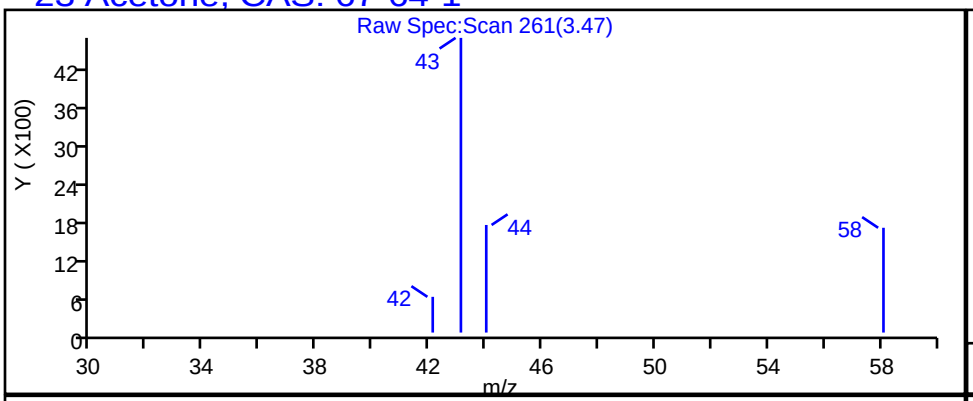
Report Date: 14-Mar-2019 17:57:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

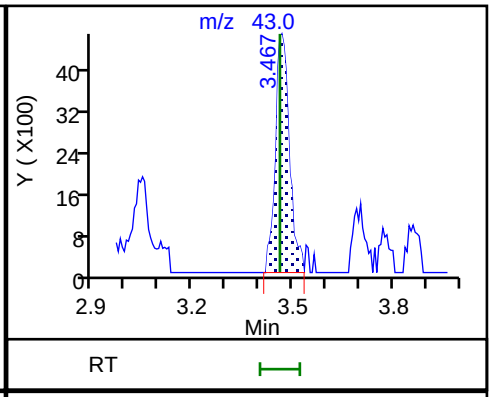
TestAmerica Buffalo

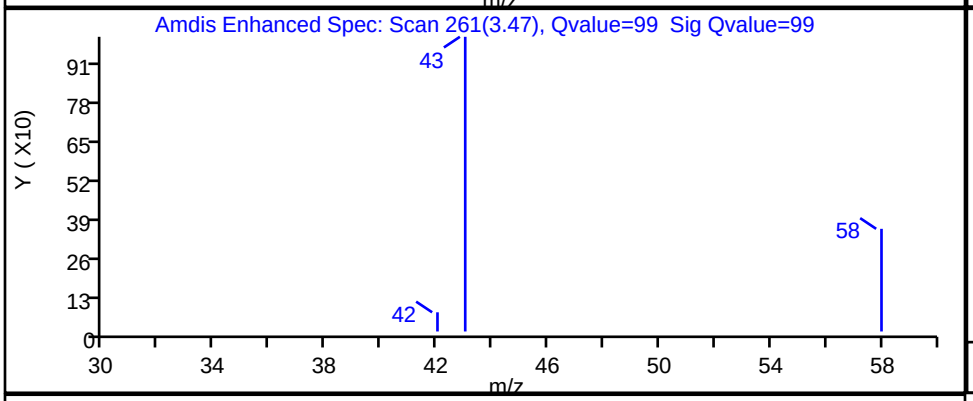
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D

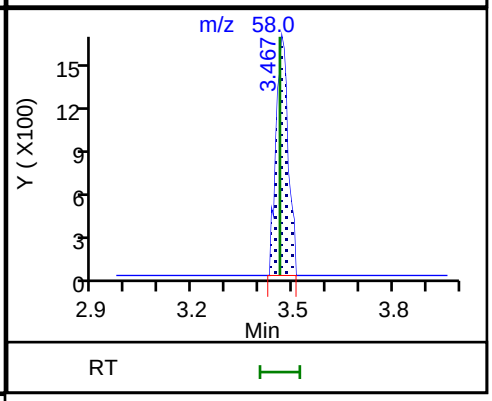
Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2
Client ID:	PDI-133-SO-13-031319		
Operator ID:	CDC	ALS Bottle#:	2 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

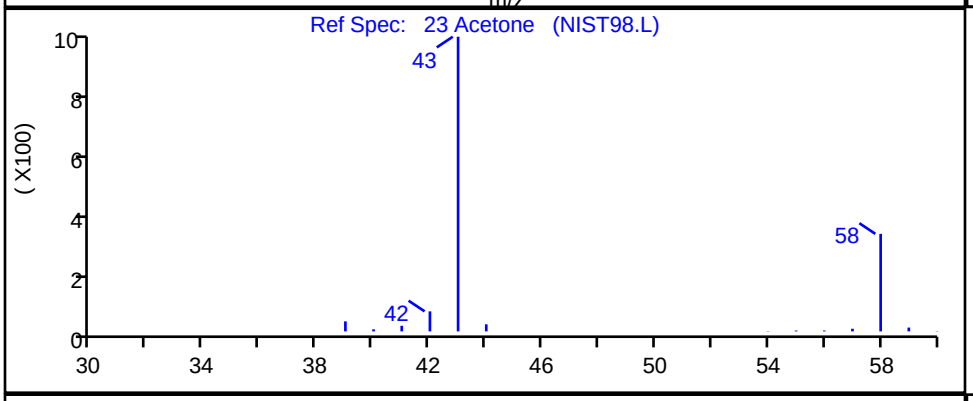
23 Acetone, CAS: 67-64-1

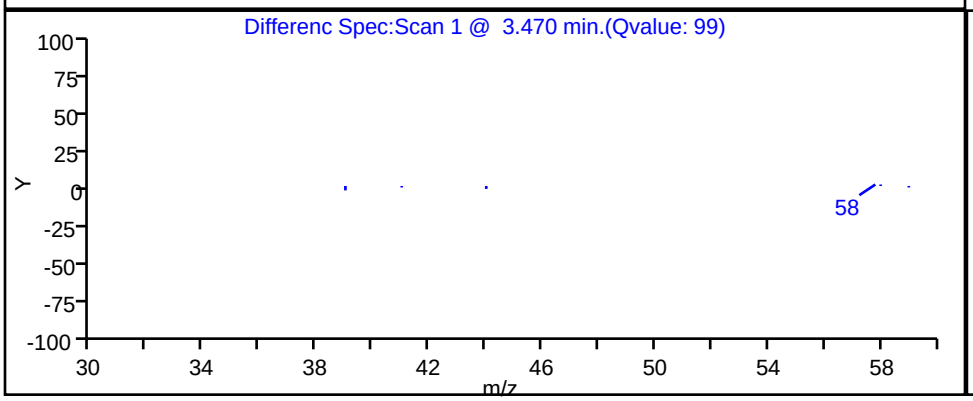


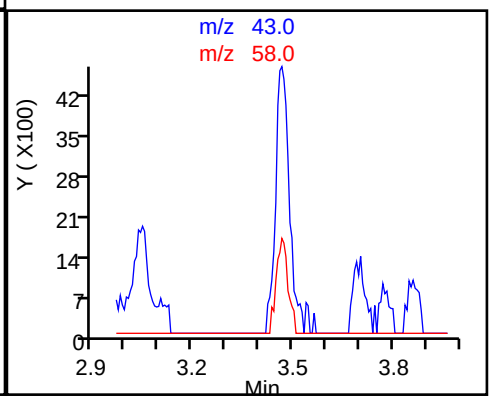












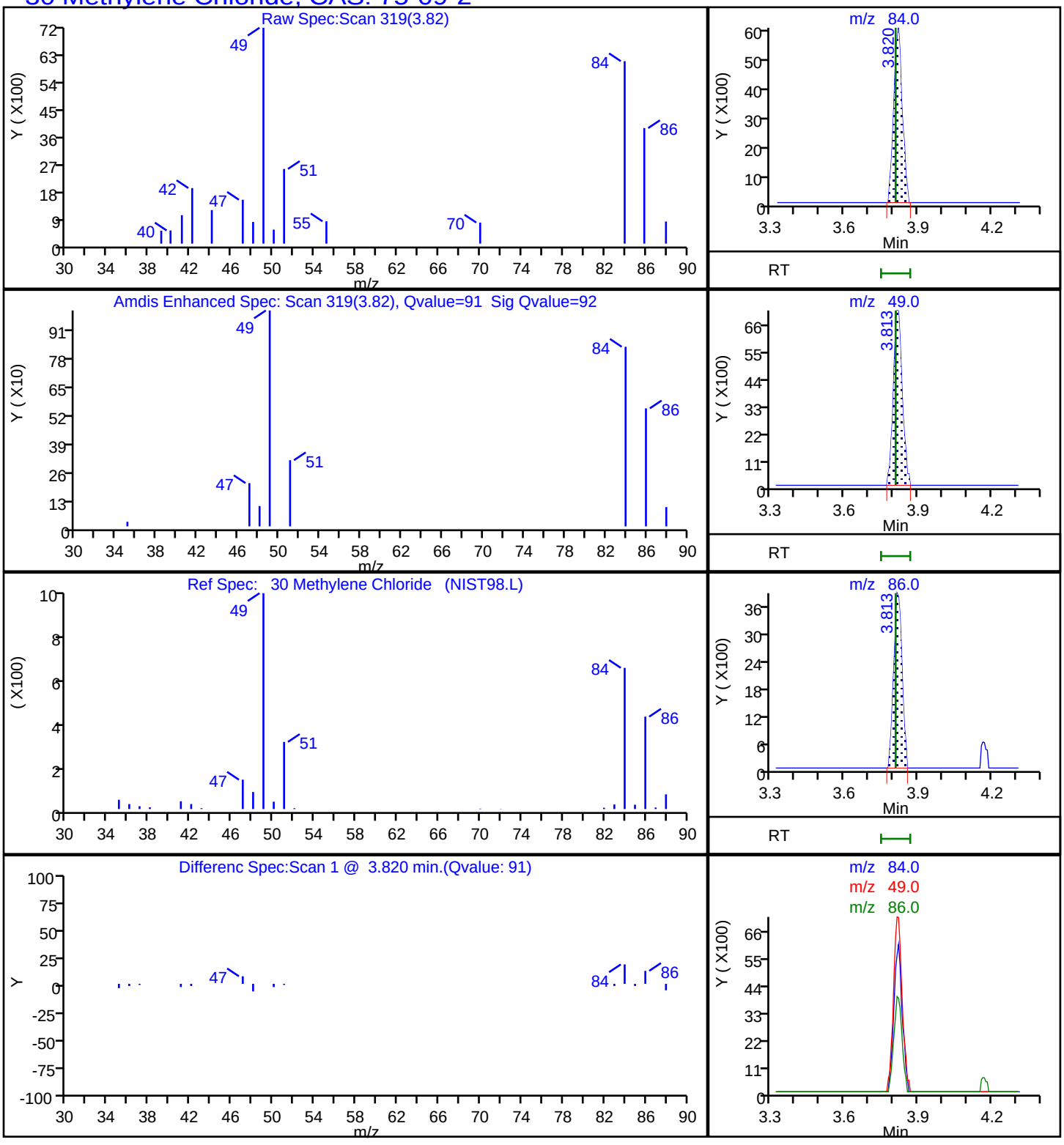
Report Date: 14-Mar-2019 17:57:02 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D

Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2		
Client ID:	PDI-133-SO-13-031319				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



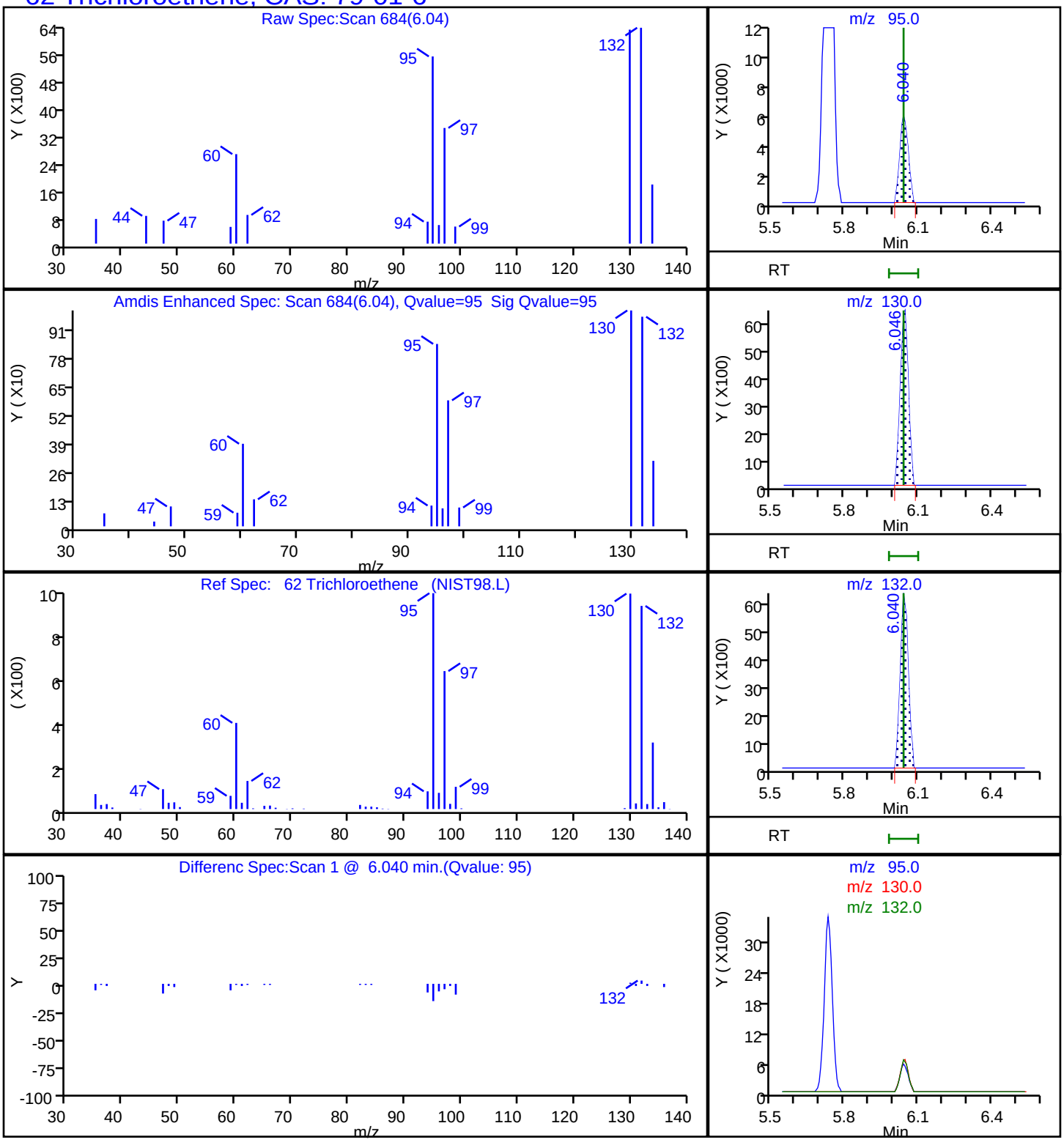
Report Date: 14-Mar-2019 17:57:03 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D

Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2
Client ID:	PDI-133-SO-13-031319		
Operator ID:	CDC	ALS Bottle#:	2 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

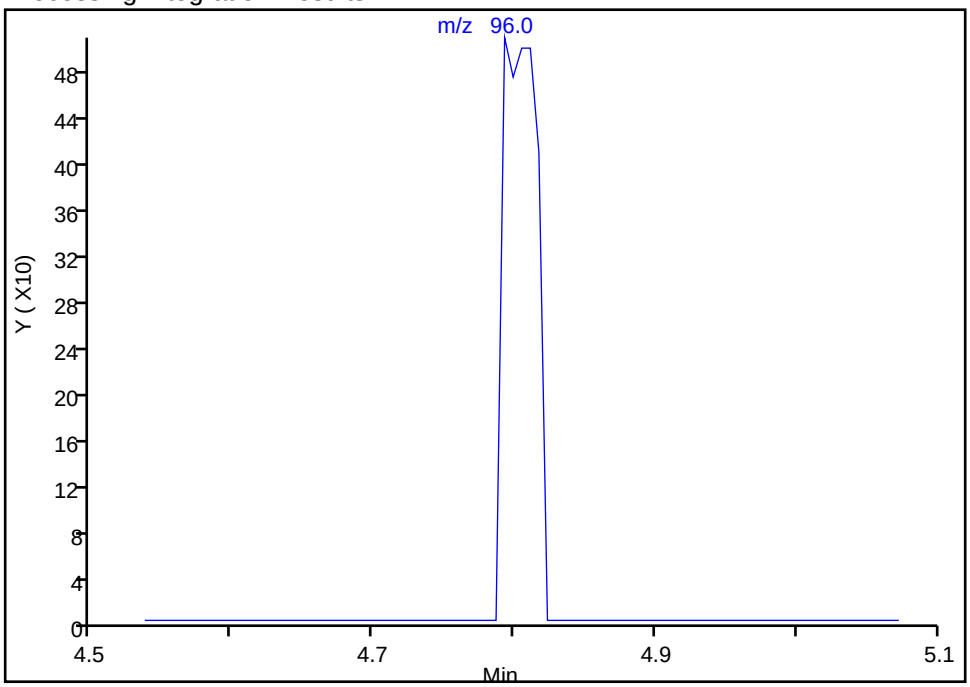
Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D				
Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2		
Client ID:	PDI-133-SO-13-031319				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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

Signal: 1

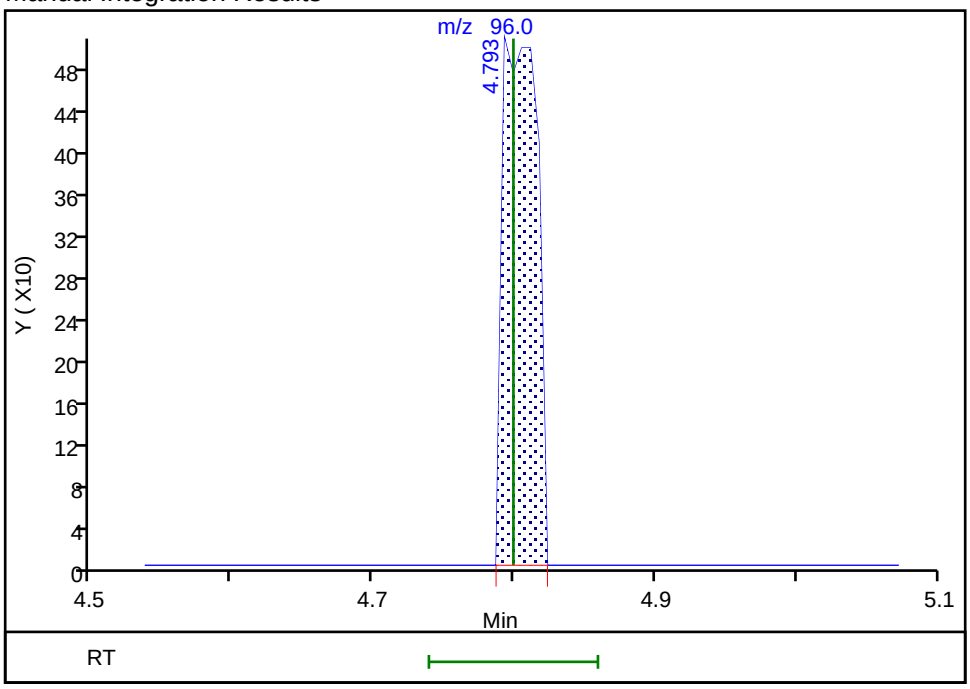
Not Detected
Expected RT: 4.80

Processing Integration Results



Manual Integration Results

RT: 4.79
Area: 863
Amount: 0.158776
Amount Units: ug/kg



Reviewer: milligana, 14-Mar-2019 17:56:12
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

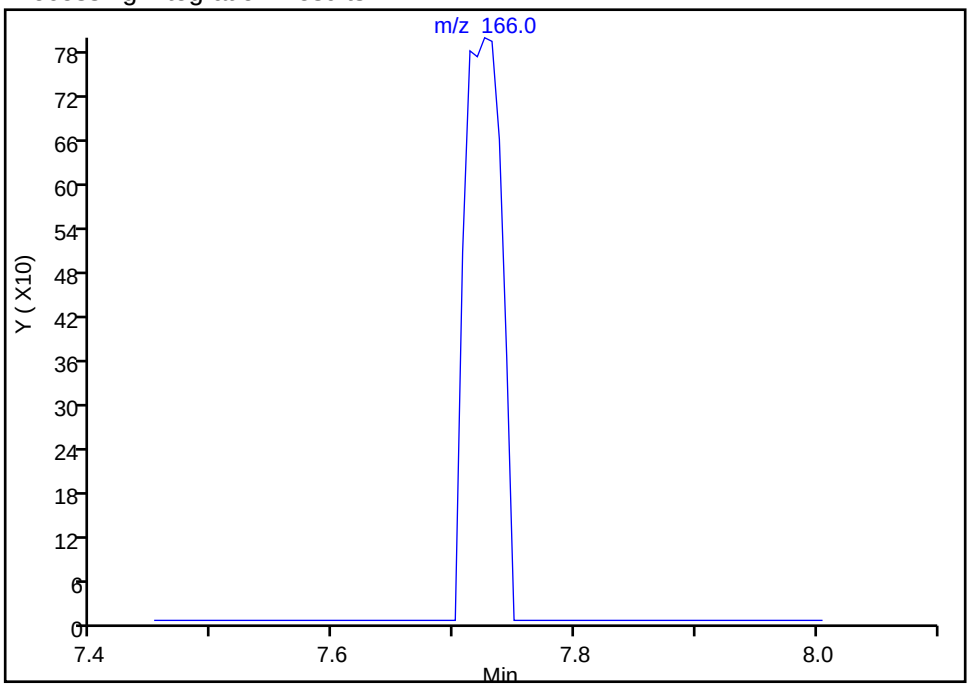
Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9039.D				
Injection Date:	14-Mar-2019 13:42:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-2-A	Lab Sample ID:	480-150190-2		
Client ID:	PDI-133-SO-13-031319				
Operator ID:	CDC	ALS Bottle#:	2	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

81 Tetrachloroethene, CAS: 127-18-4

Signal: 1

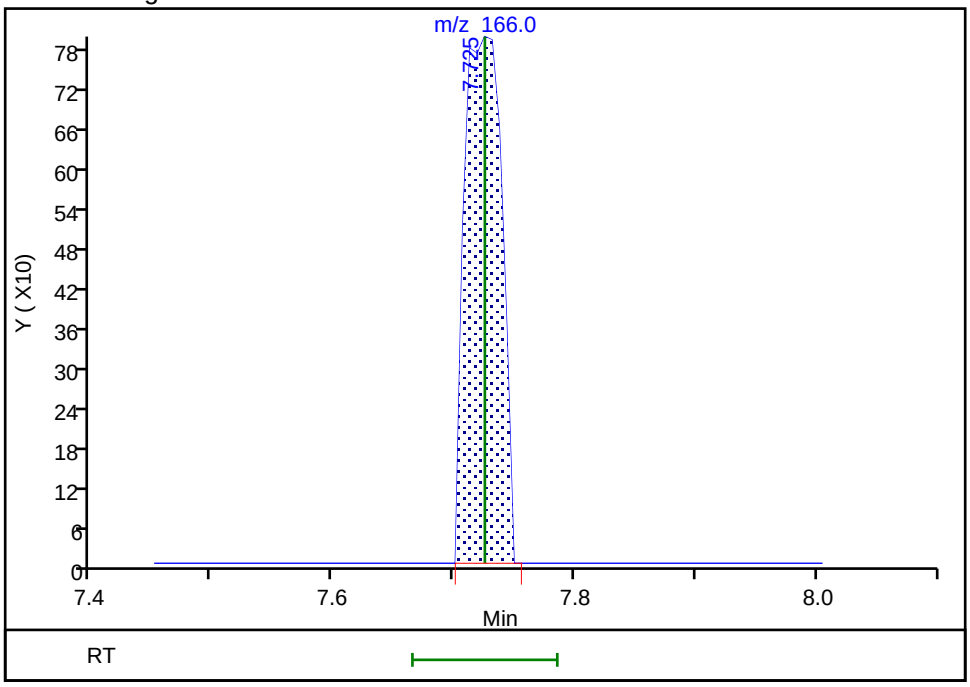
Not Detected
Expected RT: 7.73

Processing Integration Results



Manual Integration Results

RT: 7.73
Area: 1702
Amount: 0.282432
Amount Units: ug/kg



Reviewer: milligana, 14-Mar-2019 17:56:34
Audit Action: Manually Integrated Audit Reason: Assign Peak

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-34-SO-15-031319 | Lab Sample ID: 480-150190-3

Matrix: Solid | Lab File ID: F9040.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:00

Sample wt/vol: 7.18(g) | Date Analyzed: 03/14/2019 14:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.8 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.5	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.5	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.5	0.59
75-34-3	1,1-Dichloroethane	ND		4.5	0.55
75-35-4	1,1-Dichloroethene	ND		4.5	0.55
120-82-1	1,2,4-Trichlorobenzene	ND		4.5	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.5	2.3
95-50-1	1,2-Dichlorobenzene	0.46	J	4.5	0.35
107-06-2	1,2-Dichloroethane	ND		4.5	0.23
78-87-5	1,2-Dichloropropane	ND		4.5	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.5	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.5	0.63
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	5.5	J	23	3.8
71-43-2	Benzene	ND		4.5	0.22
75-25-2	Bromoform	ND		4.5	2.3
74-83-9	Bromomethane	ND		4.5	0.41
75-15-0	Carbon disulfide	ND		4.5	2.3
56-23-5	Carbon tetrachloride	ND		4.5	0.44
108-90-7	Chlorobenzene	ND		4.5	0.60
124-48-1	Dibromochloromethane	ND		4.5	0.58
75-00-3	Chloroethane	ND		4.5	1.0
67-66-3	Chloroform	ND		4.5	0.28
74-87-3	Chloromethane	ND		4.5	0.27
156-59-2	cis-1,2-Dichloroethene	6.1		4.5	0.58
110-82-7	Cyclohexane	ND		4.5	0.63
75-27-4	Bromodichloromethane	ND		4.5	0.60
75-71-8	Dichlorodifluoromethane	ND		4.5	0.37
100-41-4	Ethylbenzene	ND		4.5	0.31
106-93-4	1,2-Dibromoethane	ND		4.5	0.58
98-82-8	Isopropylbenzene	ND		4.5	0.68
79-20-9	Methyl acetate	ND		23	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-34-SO-15-031319 | Lab Sample ID: 480-150190-3

Matrix: Solid | Lab File ID: F9040.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:00

Sample wt/vol: 7.18(g) | Date Analyzed: 03/14/2019 14:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.8 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.5	0.44
108-87-2	Methylcyclohexane	ND		4.5	0.69
75-09-2	Methylene Chloride	2.1	J	4.5	2.1
127-18-4	Tetrachloroethene	19		4.5	0.61
108-88-3	Toluene	ND		4.5	0.34
156-60-5	trans-1,2-Dichloroethene	ND		4.5	0.47
10061-02-6	trans-1,3-Dichloropropene	ND		4.5	2.0
79-01-6	Trichloroethene	19		4.5	0.99
75-69-4	Trichlorofluoromethane	ND		4.5	0.43
75-01-4	Vinyl chloride	ND		4.5	0.55
1330-20-7	Xylenes, Total	ND		9.0	0.76
10061-01-5	cis-1,3-Dichloropropene	ND		4.5	0.65
100-42-5	Styrene	ND		4.5	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		64-126
460-00-4	4-Bromofluorobenzene (Surr)	104		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	110		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D
Lims ID: 480-150190-C-3-A
Client ID: PDI-34-SO-15-031319
Sample Type: Client
Inject. Date: 14-Mar-2019 14:08:30 ALS Bottle#: 3 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-3-A
Misc. Info.: 480-0079374-010
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 17:58:30 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 17:58:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	172265	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	370347	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	349573	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	94	218643	54.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.474	-0.006	97	142054	55.4	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	890584	51.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	97	305520	52.0	
10 Dichlorodifluoromethane	85		2.122				ND	
12 Chloromethane	50		2.323				ND	
13 Vinyl chloride	62		2.420				ND	
14 Bromomethane	94		2.737				ND	
15 Chloroethane	64		2.804				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.424				ND	
23 Acetone	43	3.461	3.461	0.000	98	11492	6.09	
26 Carbon disulfide	76		3.649				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.807	3.808	-0.001	94	12469	2.37	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96	4.805	4.793	0.006	79	36024	6.76	
50 Chloroform	83		5.042				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	U
52 Cyclohexane	56		5.249				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.517				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	97	105143	21.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166	7.725	7.725	0.000	98	123818	20.8	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.145				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146	11.229	11.230	0.000	95	5647	0.5103	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

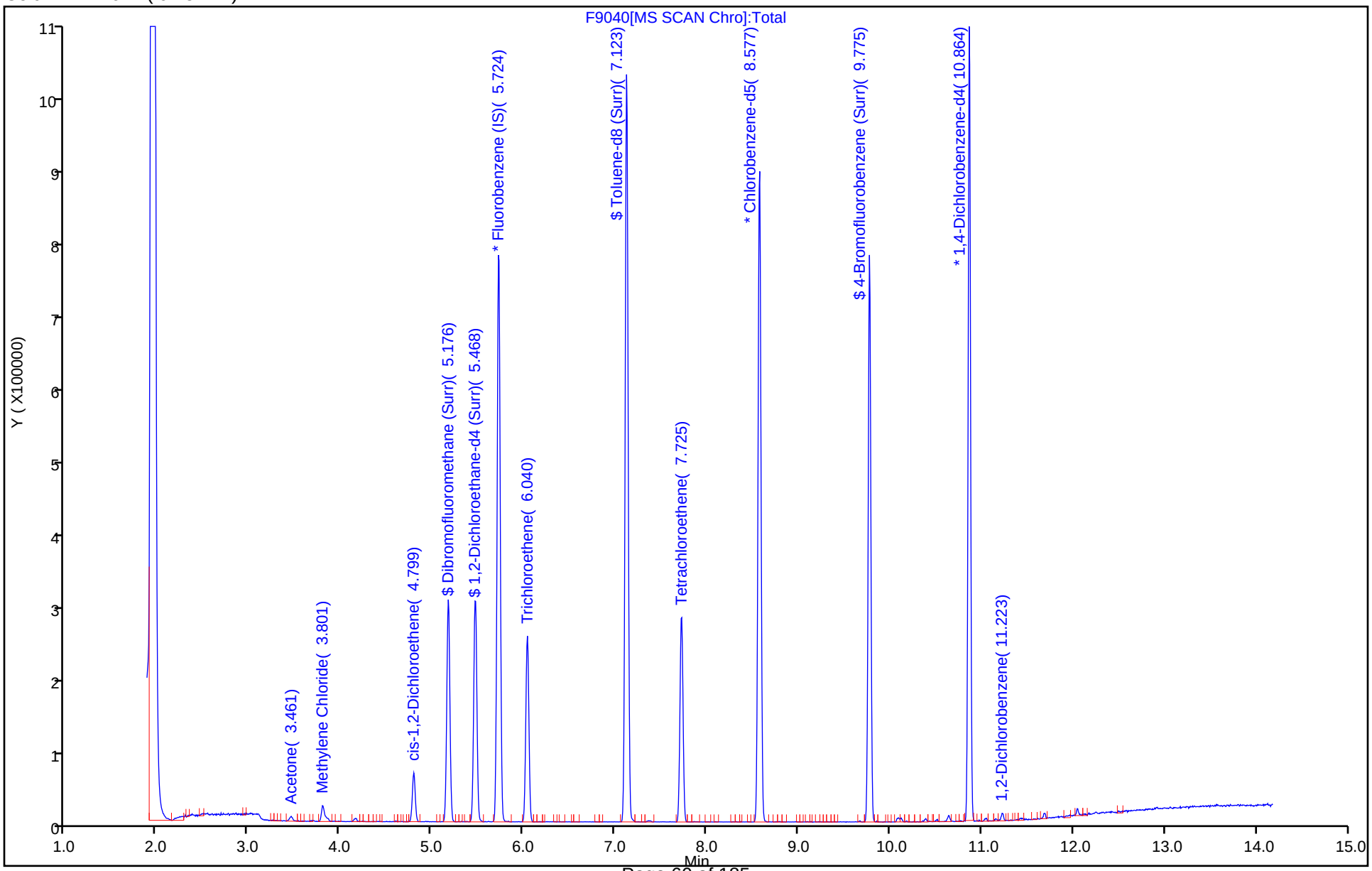
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3	Worklist Smp#:	10
Client ID:	PDI-34-SO-15-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



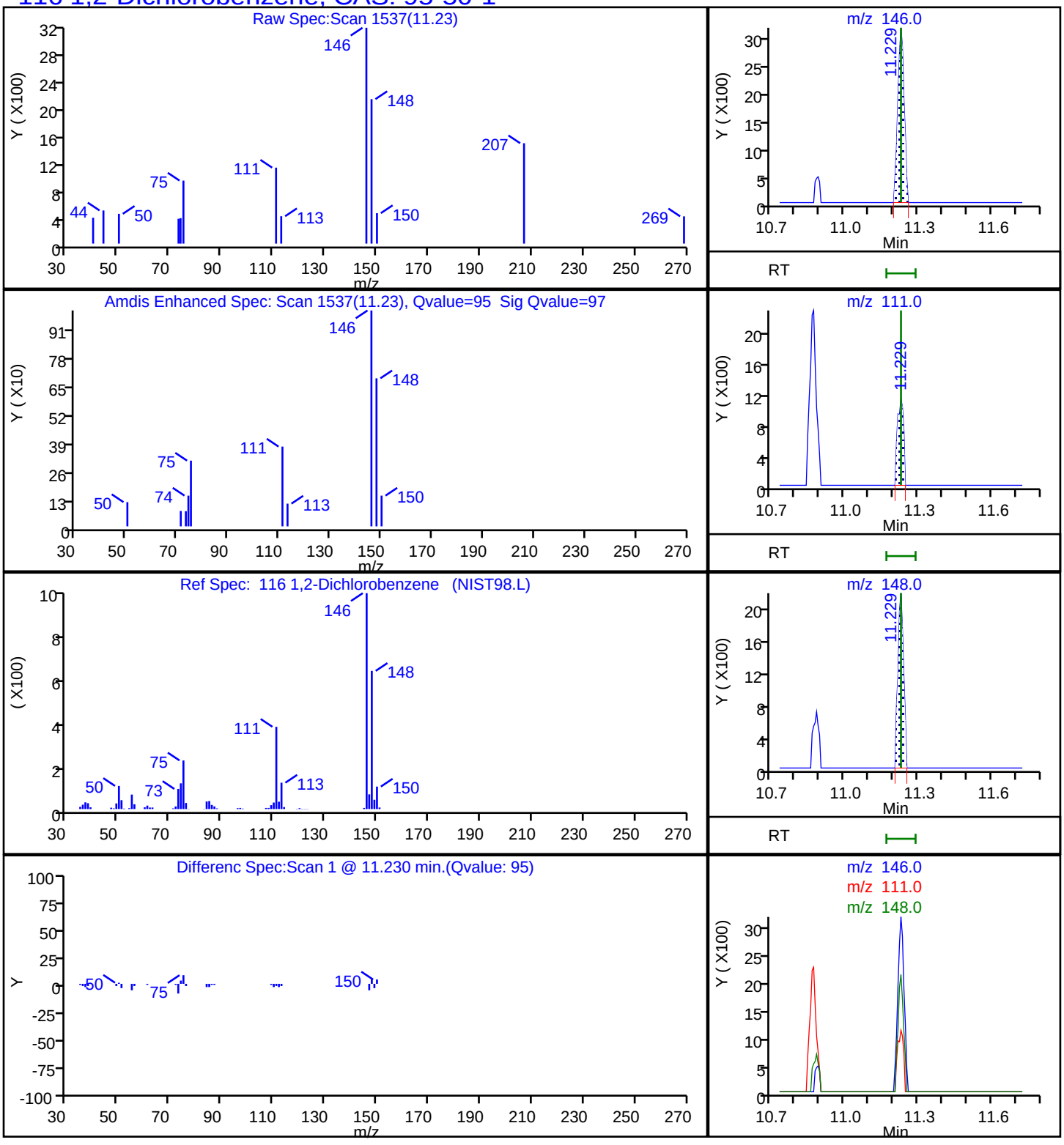
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3
Client ID:	PDI-34-SO-15-031319		
Operator ID:	CDC	ALS Bottle#:	3 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

116 1,2-Dichlorobenzene, CAS: 95-50-1



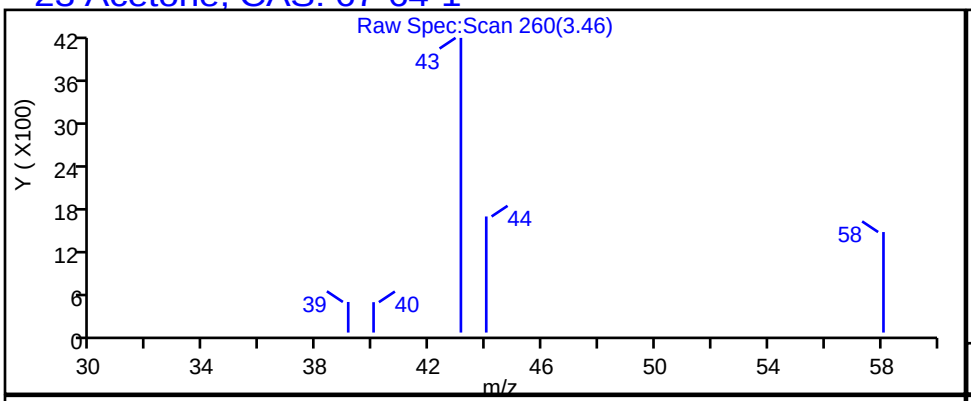
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

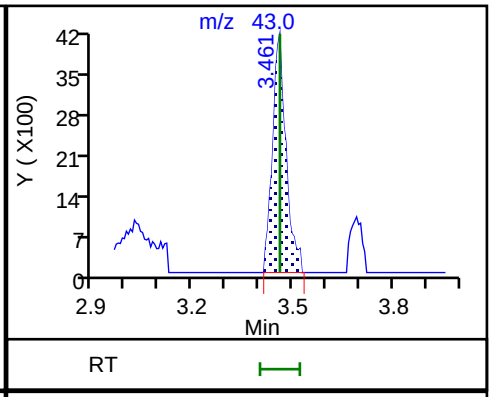
TestAmerica Buffalo

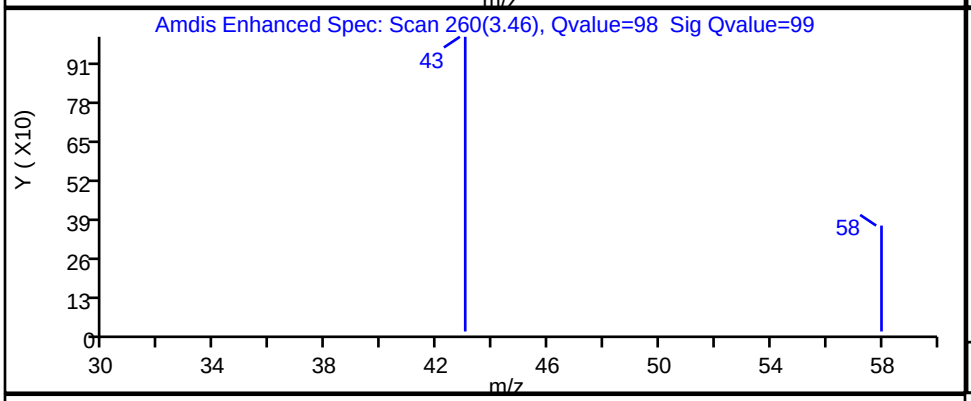
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

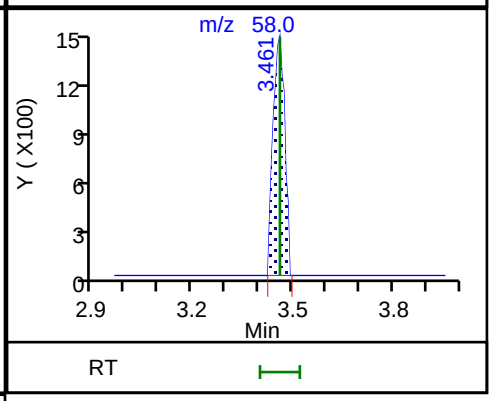
Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3
Client ID:	PDI-34-SO-15-031319		
Operator ID:	CDC	ALS Bottle#:	3 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

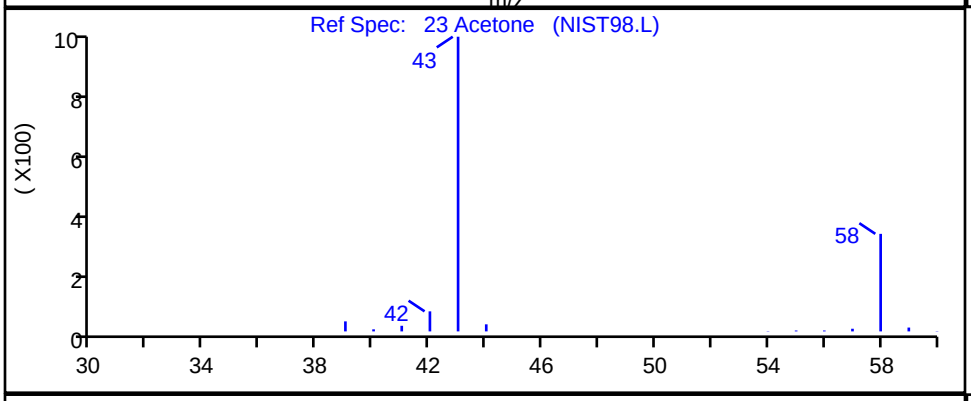
23 Acetone, CAS: 67-64-1

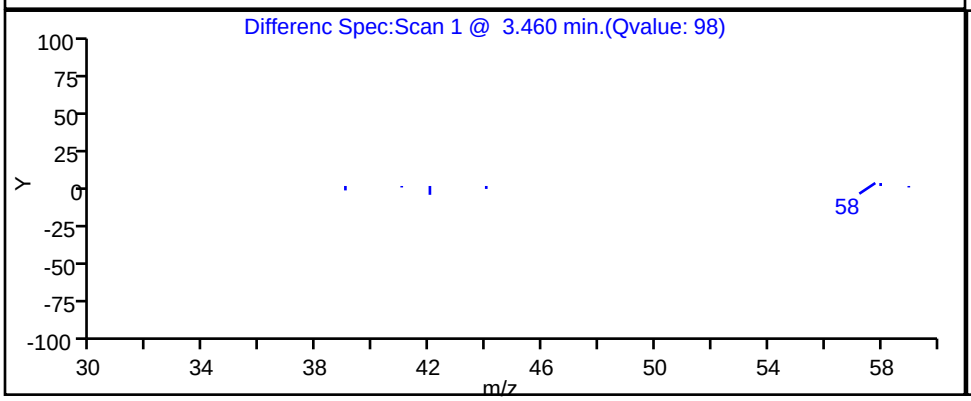


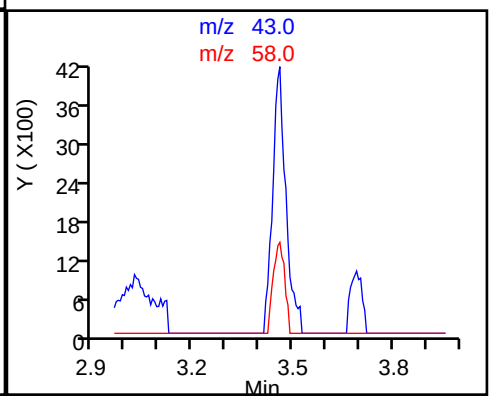












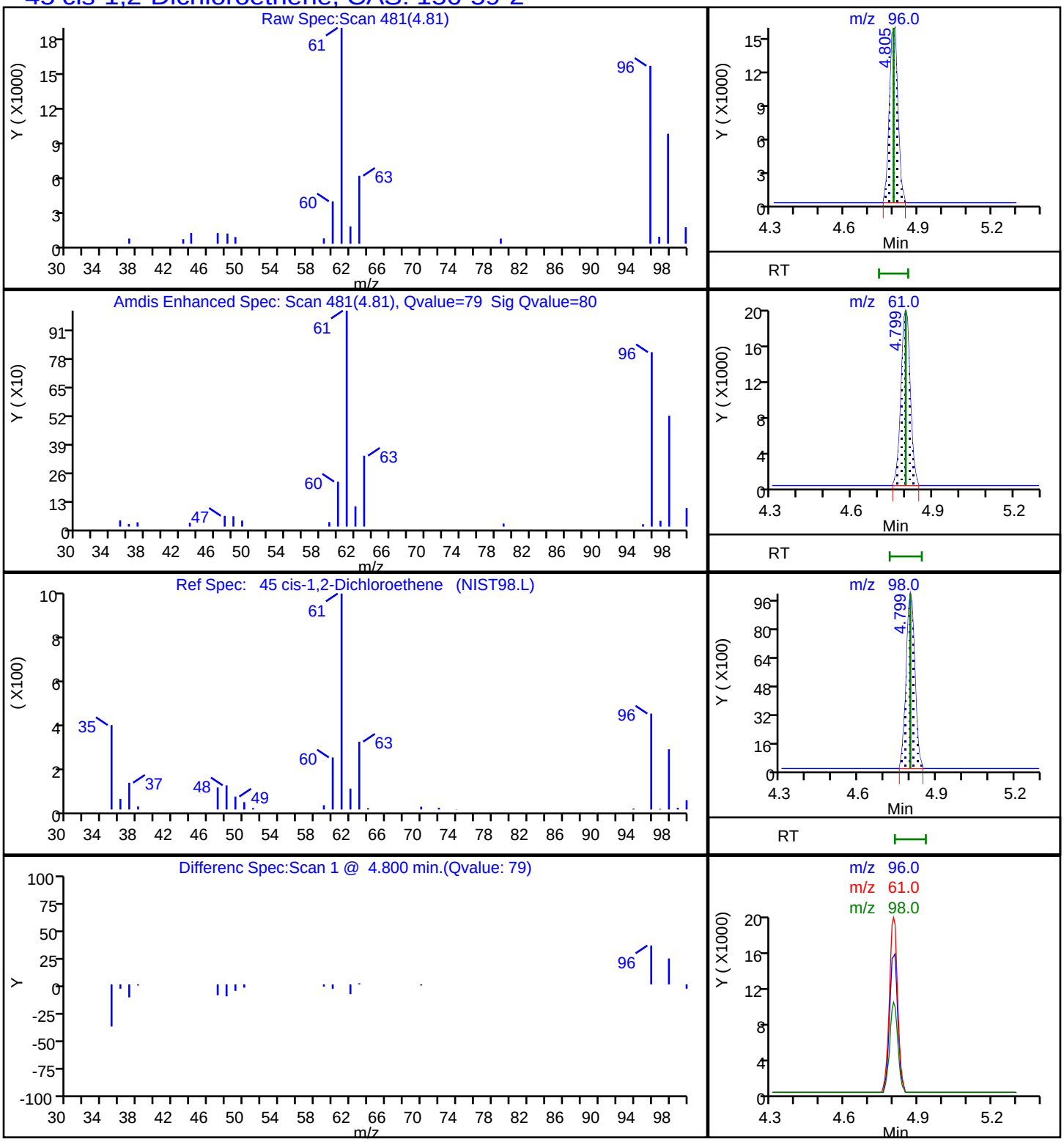
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3		
Client ID:	PDI-34-SO-15-031319				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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



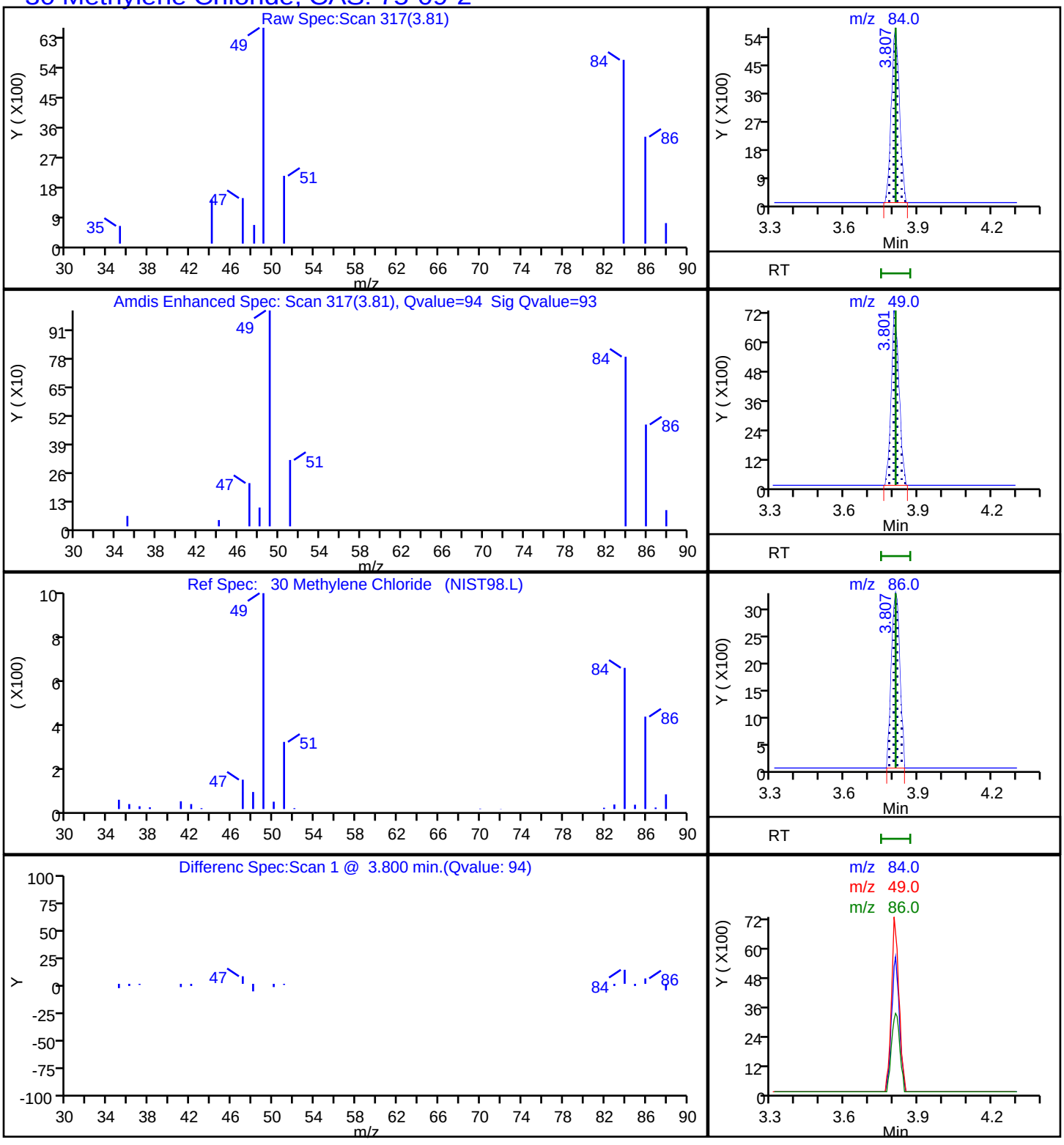
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3
Client ID:	PDI-34-SO-15-031319		
Operator ID:	CDC	ALS Bottle#:	3 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



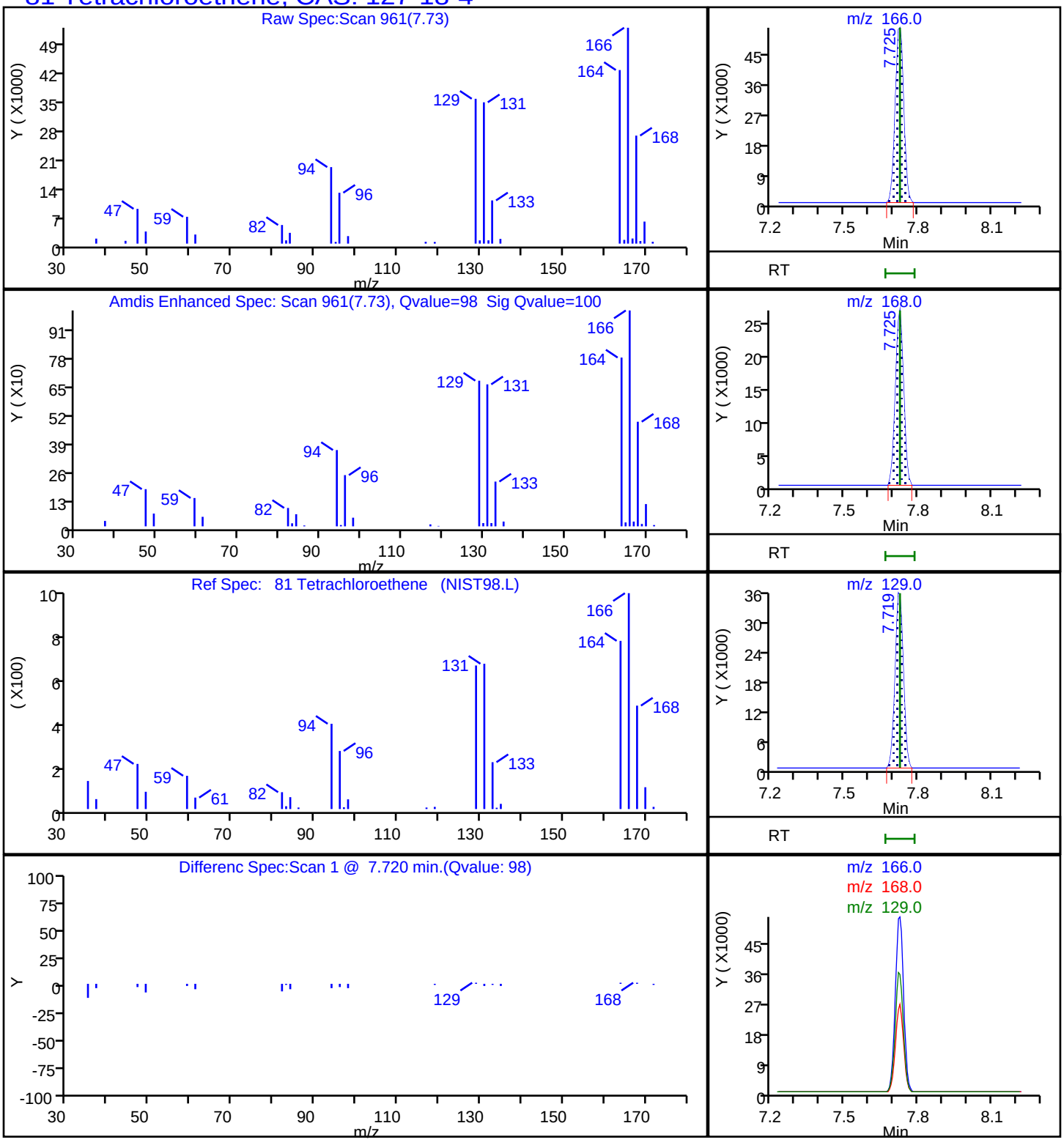
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3
Client ID:	PDI-34-SO-15-031319		
Operator ID:	CDC	ALS Bottle#:	3 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



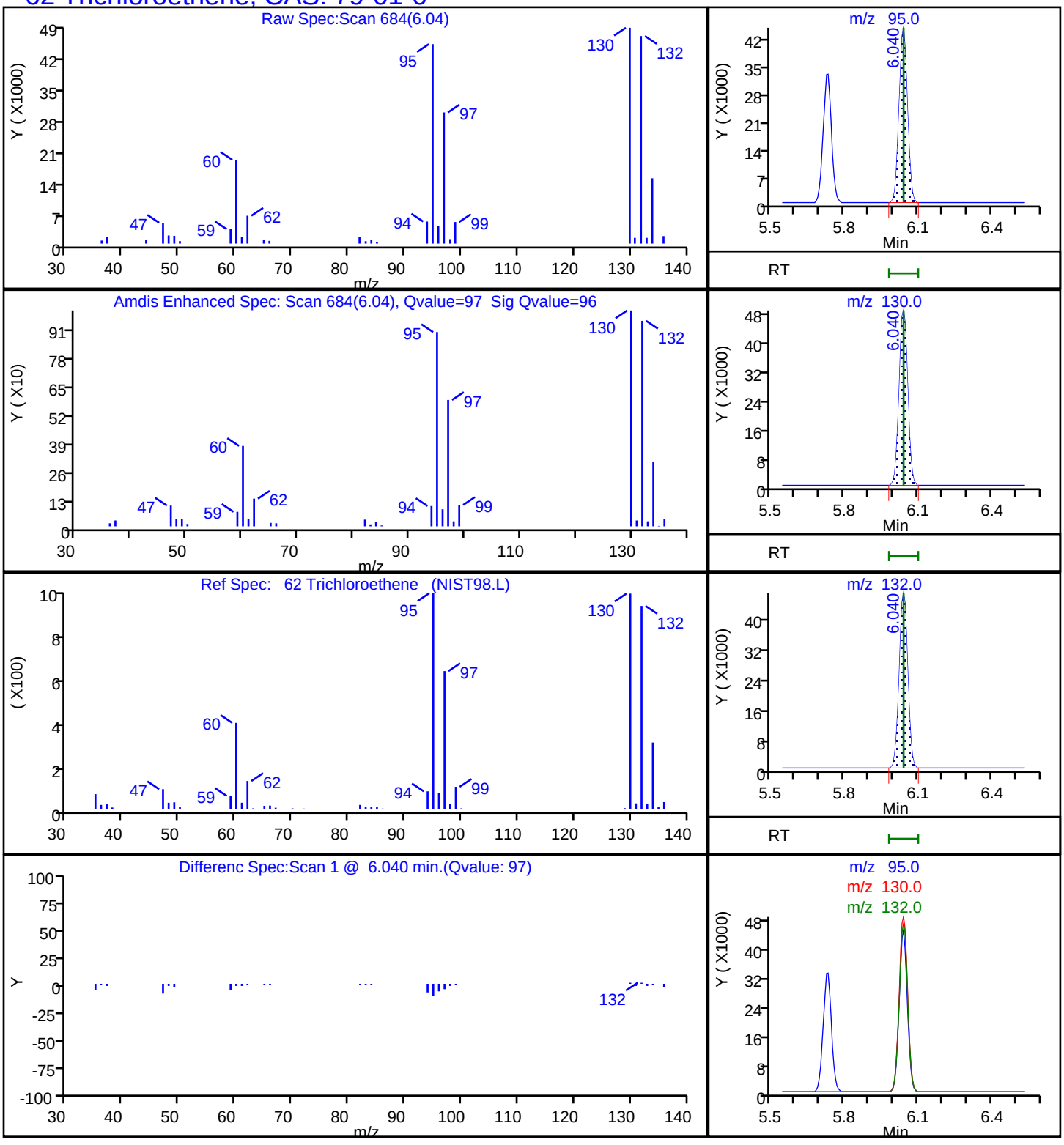
Report Date: 14-Mar-2019 17:58:32 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D

Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3		
Client ID:	PDI-34-SO-15-031319				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



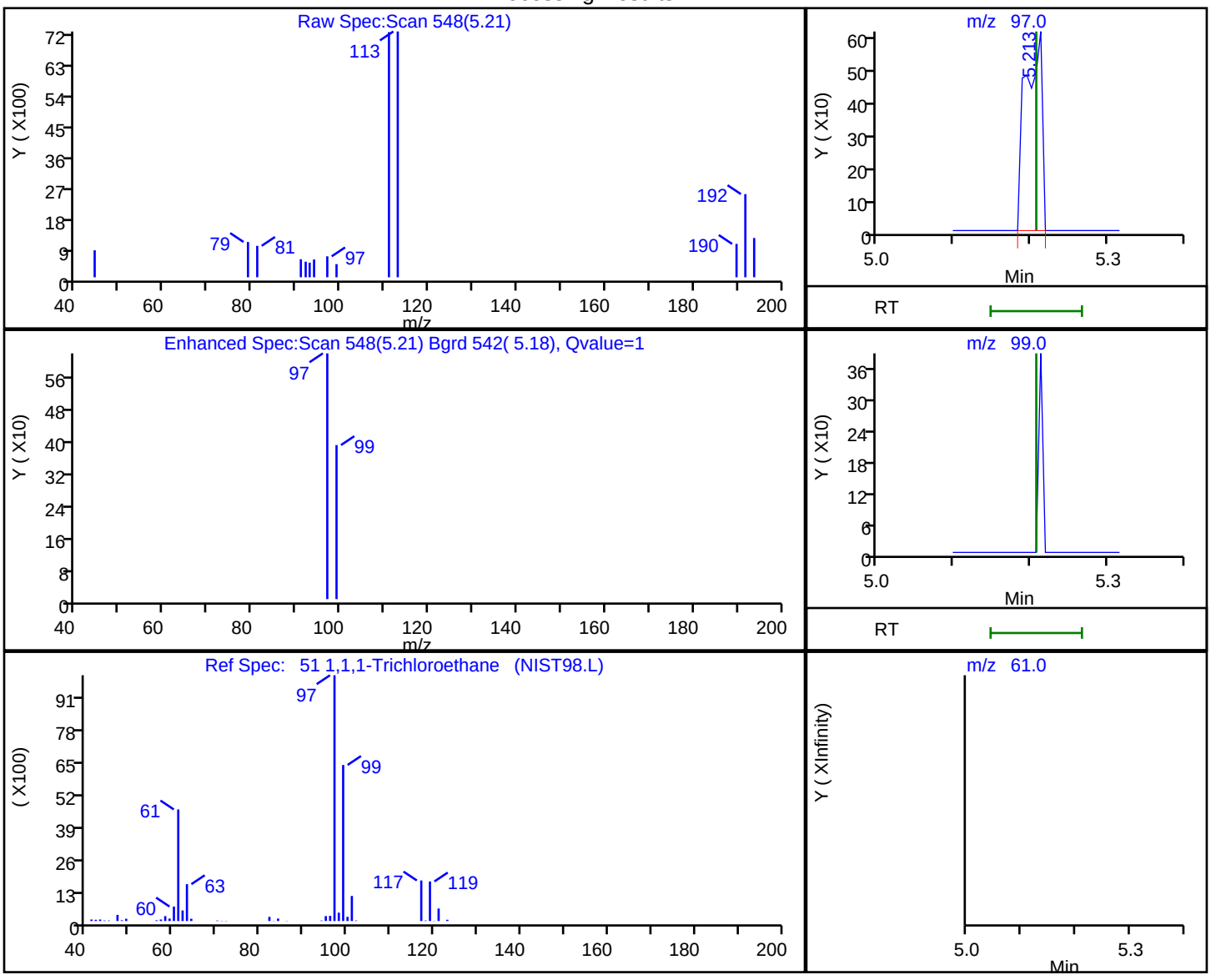
User Disabled Compound Report

TestAmerica Buffalo

Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9040.D				
Injection Date:	14-Mar-2019 14:08:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-3-A	Lab Sample ID:	480-150190-3		
Client ID:	PDI-34-SO-15-031319				
Operator ID:	CDC	ALS Bottle#:	3	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

51 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
5.21	97.00	915	0.143910
5.21	99.00	0	
5.21	61.00	0	

Reviewer: milligana, 14-Mar-2019 17:57:47

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 | Lab Sample ID: 480-150190-4

Matrix: Solid | Lab File ID: F9041.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.84(g) | Date Analyzed: 03/14/2019 14:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.9	0.35
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1	4.9	0.79
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.9	0.63
75-34-3	1,1-Dichloroethane	ND		4.9	0.59
75-35-4	1,1-Dichloroethene	ND		4.9	0.60
120-82-1	1,2,4-Trichlorobenzene	ND		4.9	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1	4.9	2.4
95-50-1	1,2-Dichlorobenzene	ND		4.9	0.38
107-06-2	1,2-Dichloroethane	ND		4.9	0.24
78-87-5	1,2-Dichloropropane	ND		4.9	2.4
541-73-1	1,3-Dichlorobenzene	ND		4.9	0.25
106-46-7	1,4-Dichlorobenzene	ND		4.9	0.68
78-93-3	2-Butanone (MEK)	ND	F1	24	1.8
591-78-6	2-Hexanone	ND		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1	24	1.6
67-64-1	Acetone	9.1	J F1	24	4.1
71-43-2	Benzene	ND		4.9	0.24
75-25-2	Bromoform	ND		4.9	2.4
74-83-9	Bromomethane	ND		4.9	0.44
75-15-0	Carbon disulfide	ND		4.9	2.4
56-23-5	Carbon tetrachloride	ND		4.9	0.47
108-90-7	Chlorobenzene	ND		4.9	0.64
124-48-1	Dibromochloromethane	ND		4.9	0.62
75-00-3	Chloroethane	ND		4.9	1.1
67-66-3	Chloroform	ND		4.9	0.30
74-87-3	Chloromethane	ND		4.9	0.29
156-59-2	cis-1,2-Dichloroethene	0.75	J	4.9	0.62
110-82-7	Cyclohexane	ND		4.9	0.68
75-27-4	Bromodichloromethane	ND		4.9	0.65
75-71-8	Dichlorodifluoromethane	ND		4.9	0.40
100-41-4	Ethylbenzene	ND		4.9	0.34
106-93-4	1,2-Dibromoethane	ND		4.9	0.63
98-82-8	Isopropylbenzene	ND		4.9	0.74
79-20-9	Methyl acetate	ND		24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 | Lab Sample ID: 480-150190-4

Matrix: Solid | Lab File ID: F9041.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.84(g) | Date Analyzed: 03/14/2019 14:34

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.9	0.48
108-87-2	Methylcyclohexane	ND		4.9	0.74
75-09-2	Methylene Chloride	2.4	J	4.9	2.2
127-18-4	Tetrachloroethene	1.6	J	4.9	0.65
108-88-3	Toluene	ND		4.9	0.37
156-60-5	trans-1,2-Dichloroethene	ND		4.9	0.50
10061-02-6	trans-1,3-Dichloropropene	ND		4.9	2.1
79-01-6	Trichloroethene	2.7	J	4.9	1.1
75-69-4	Trichlorofluoromethane	ND		4.9	0.46
75-01-4	Vinyl chloride	ND		4.9	0.59
1330-20-7	Xylenes, Total	ND		9.7	0.82
10061-01-5	cis-1,3-Dichloropropene	ND		4.9	0.70
100-42-5	Styrene	ND		4.9	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D
Lims ID: 480-150190-C-4-A
Client ID: PDI-35-SO-14-031319
Sample Type: Client
Inject. Date: 14-Mar-2019 14:34:30 ALS Bottle#: 4 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-4-A
Misc. Info.: 480-0079374-011
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 17:58:30 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 17:59:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	176757	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	375563	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.864	0.006	94	346505	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	218025	53.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	144613	54.9	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	910215	51.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	97	308351	51.7	
10 Dichlorodifluoromethane	85		2.122				ND	
12 Chloromethane	50		2.323				ND	
13 Vinyl chloride	62		2.420				ND	
14 Bromomethane	94		2.737				ND	
15 Chloroethane	64		2.804				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.424				ND	
23 Acetone	43	3.455	3.461	-0.006	99	18007	9.30	
26 Carbon disulfide	76		3.649				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.807	3.808	-0.001	92	13397	2.48	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96	4.799	4.793	0.000	75	4225	0.7722	
50 Chloroform	83		5.042				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.249				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.517				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	96	14013	2.78	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166	7.725	7.725	0.000	95	9639	1.60	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.145				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

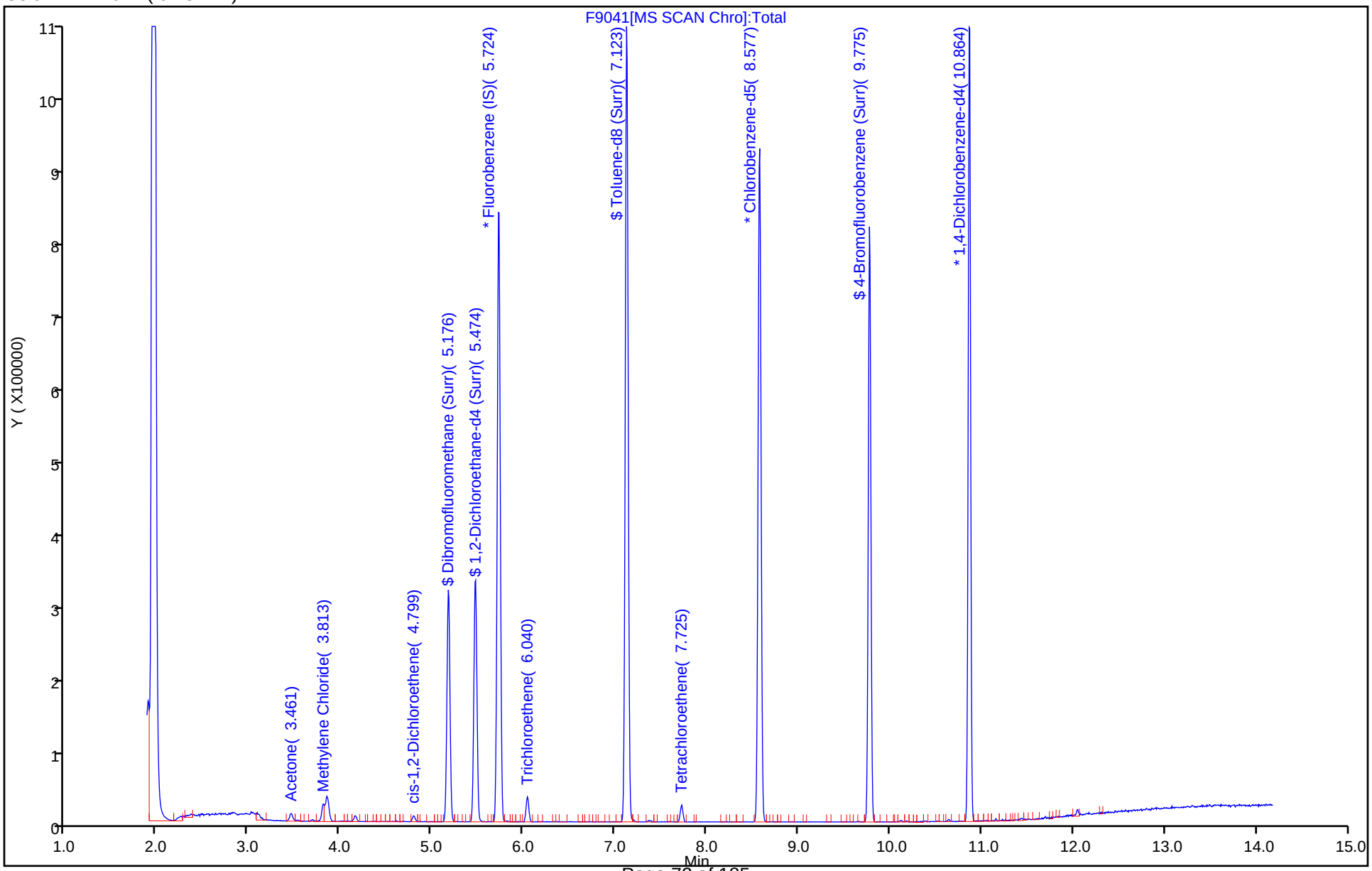
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4	Worklist Smp#:	11
Client ID:	PDI-35-SO-14-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



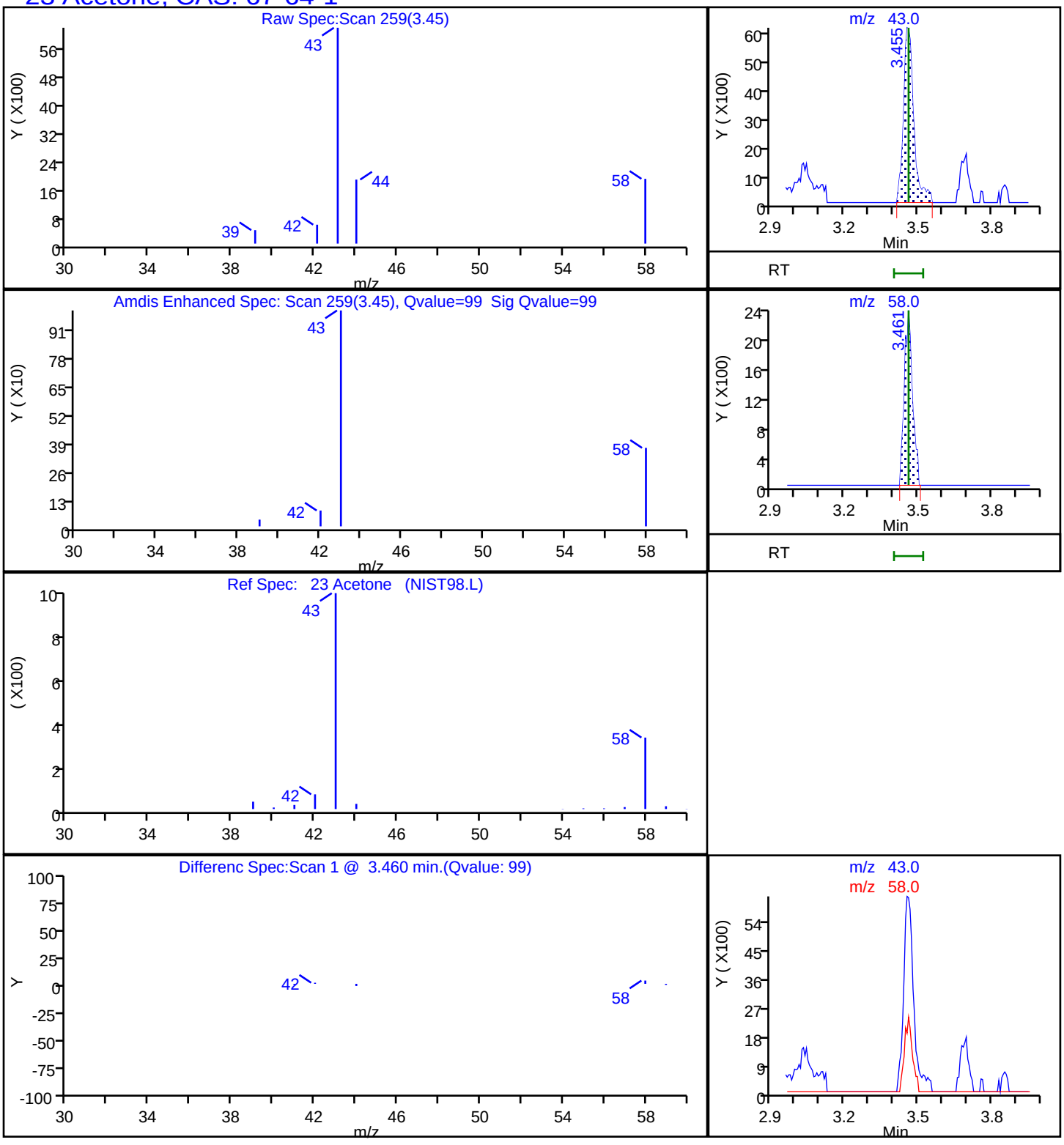
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4		
Client ID:	PDI-35-SO-14-031319				
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



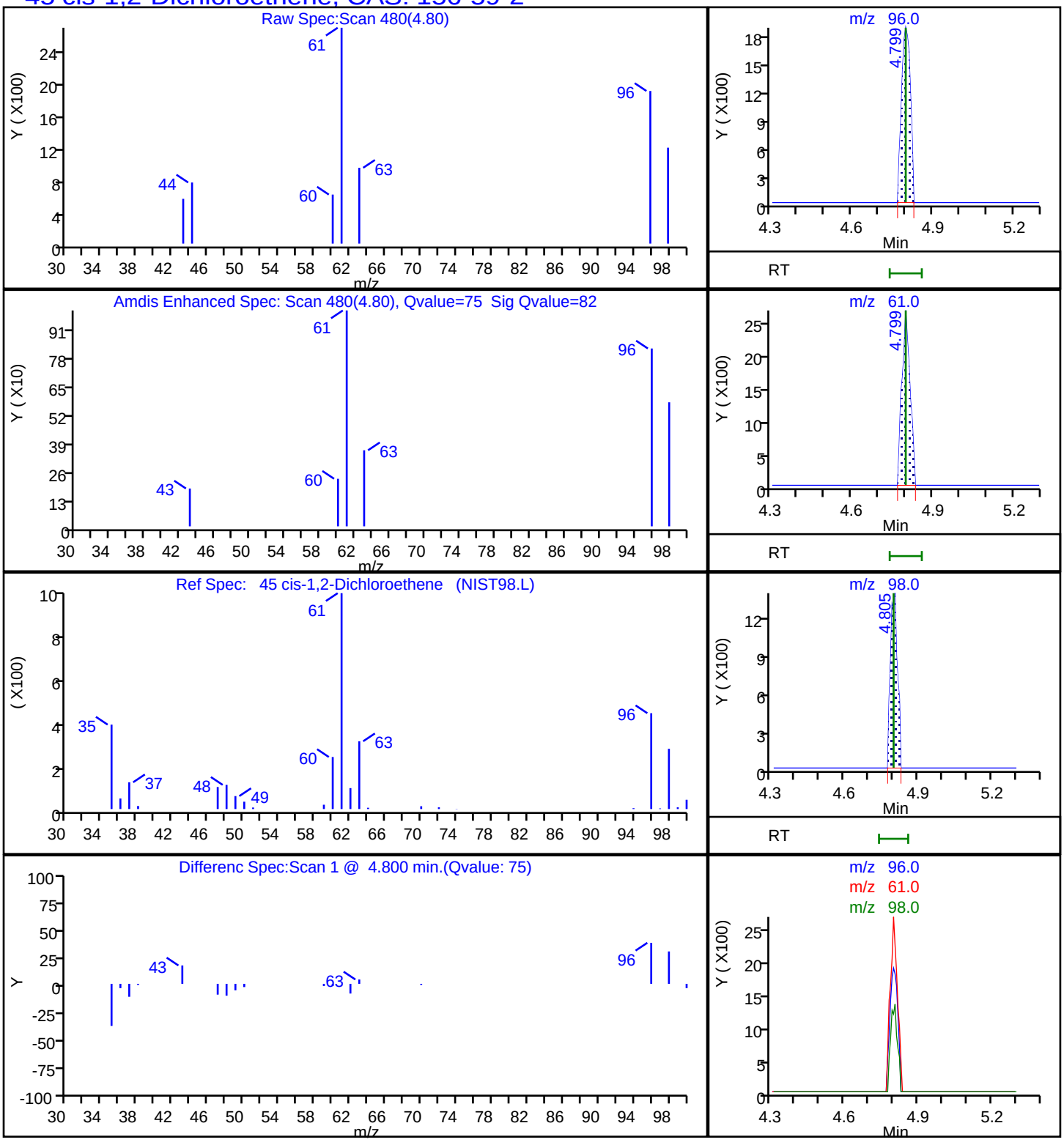
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4		
Client ID:	PDI-35-SO-14-031319				
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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



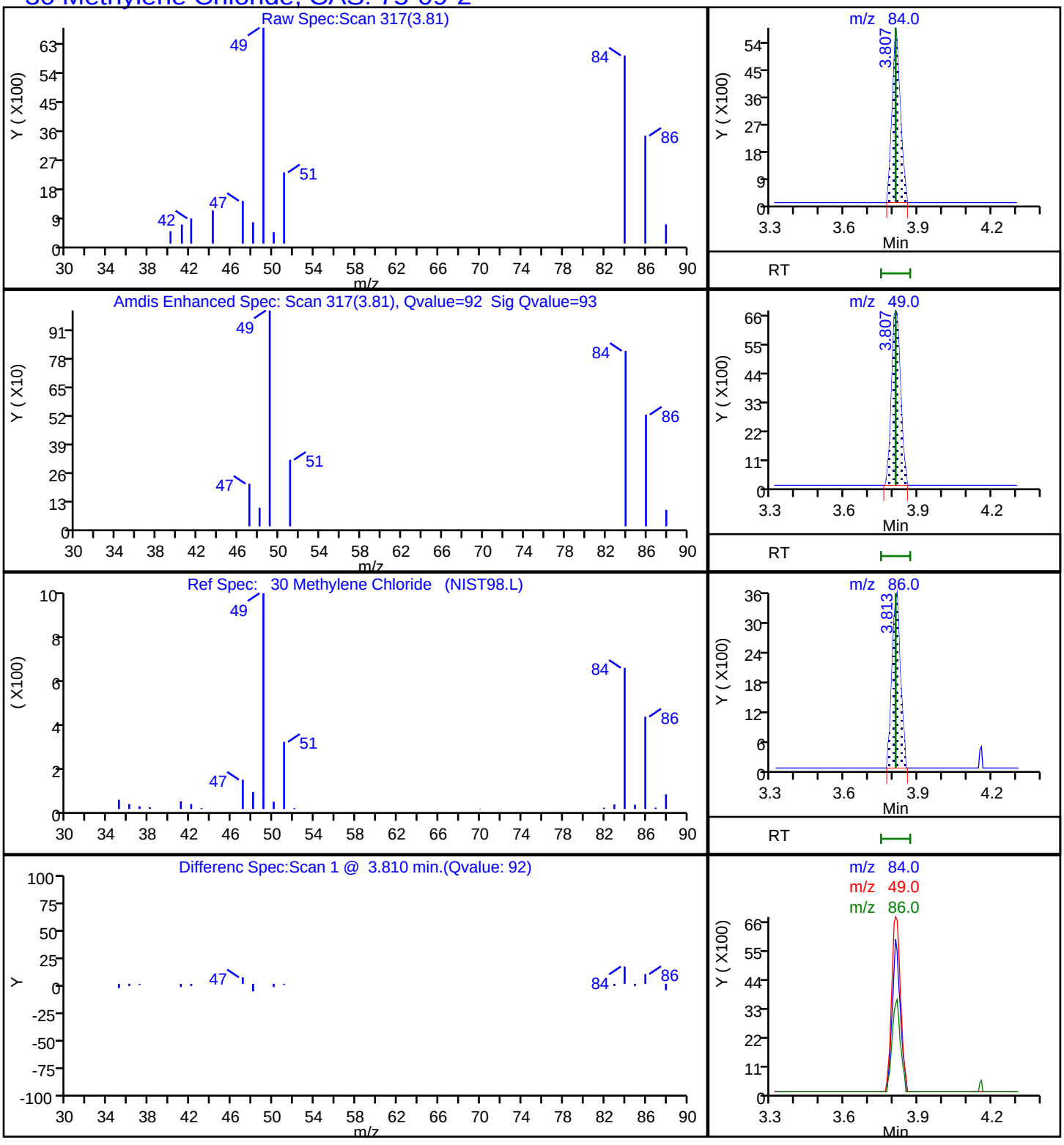
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4		
Client ID:	PDI-35-SO-14-031319				
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



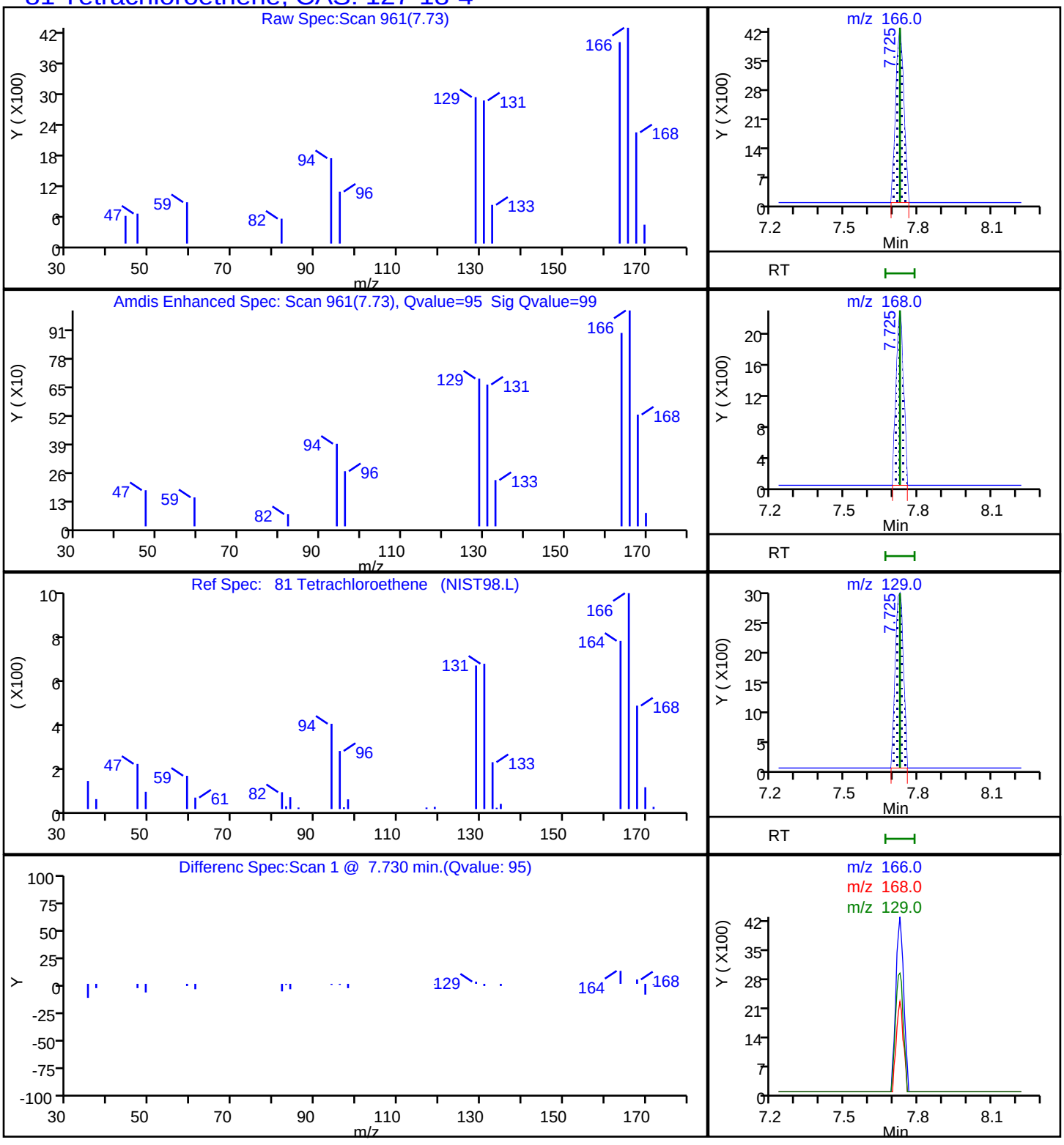
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4
Client ID:	PDI-35-SO-14-031319		
Operator ID:	CDC	ALS Bottle#:	4 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



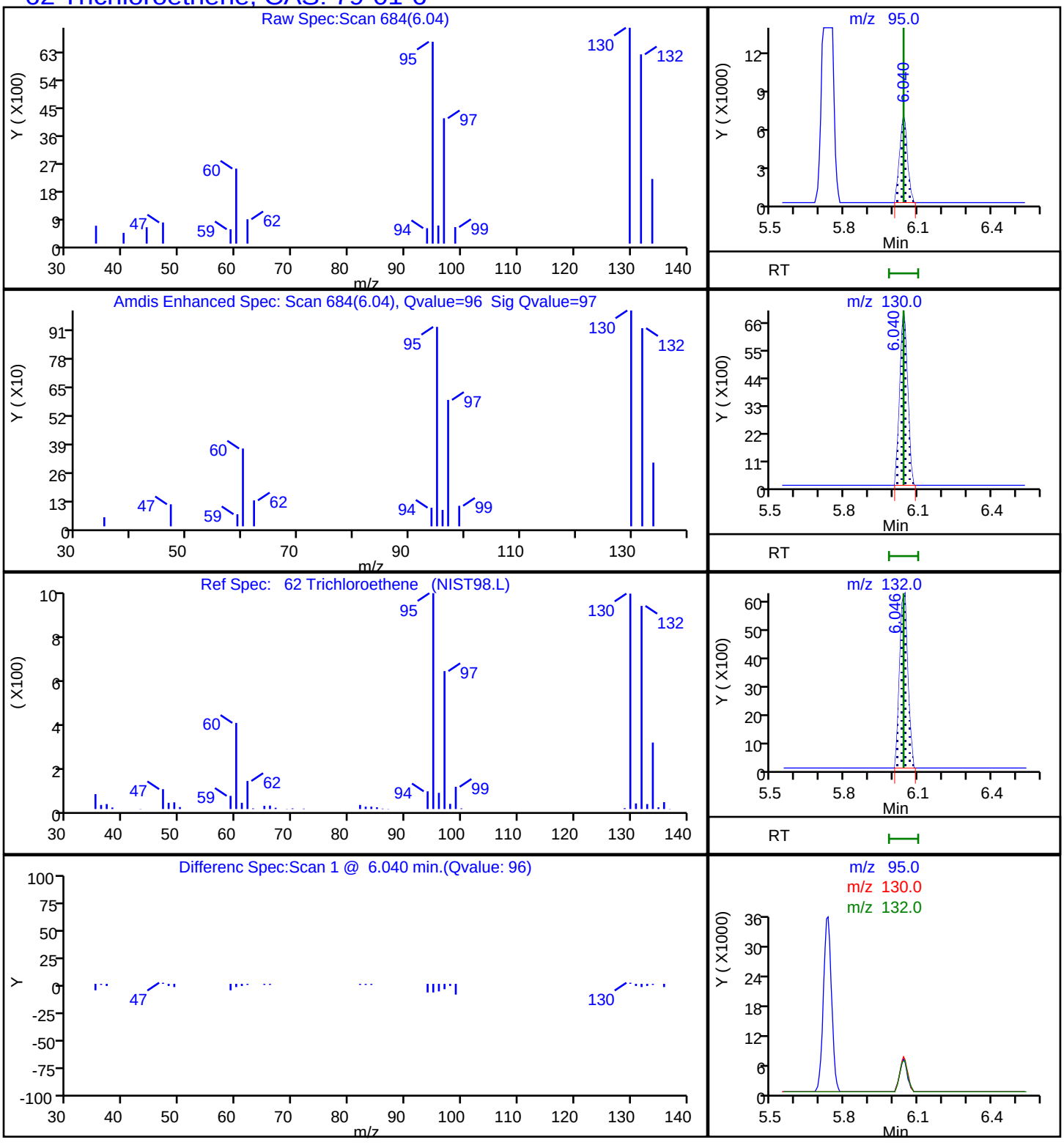
Report Date: 14-Mar-2019 17:59:27 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9041.D

Injection Date:	14-Mar-2019 14:34:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-4-A	Lab Sample ID:	480-150190-4		
Client ID:	PDI-35-SO-14-031319				
Operator ID:	CDC	ALS Bottle#:	4	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-36-SO-13.5-031319 | Lab Sample ID: 480-150190-5

Matrix: Solid | Lab File ID: F9042.D

Analysis Method: 8260C | Date Collected: 03/13/2019 10:15

Sample wt/vol: 6.92(g) | Date Analyzed: 03/14/2019 15:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.6	0.33
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.6	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.56
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.6	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND		4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.64
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	8.9	J	23	3.9
71-43-2	Benzene	ND		4.6	0.23
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.41
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND		4.6	0.44
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND		4.6	0.28
74-87-3	Chloromethane	ND		4.6	0.28
156-59-2	cis-1,2-Dichloroethene	ND		4.6	0.59
110-82-7	Cyclohexane	ND		4.6	0.64
75-27-4	Bromodichloromethane	ND		4.6	0.62
75-71-8	Dichlorodifluoromethane	ND		4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
106-93-4	1,2-Dibromoethane	ND		4.6	0.59
98-82-8	Isopropylbenzene	ND		4.6	0.69
79-20-9	Methyl acetate	ND		23	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-36-SO-13.5-031319 | Lab Sample ID: 480-150190-5

Matrix: Solid | Lab File ID: F9042.D

Analysis Method: 8260C | Date Collected: 03/13/2019 10:15

Sample wt/vol: 6.92(g) | Date Analyzed: 03/14/2019 15:00

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	2.6	J	4.6	2.1
127-18-4	Tetrachloroethene	ND		4.6	0.62
108-88-3	Toluene	ND		4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.47
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	ND		4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.43
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.2	0.77
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.66
100-42-5	Styrene	ND		4.6	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	105		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	110		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9042.D
Lims ID: 480-150190-C-5-A
Client ID: PDI-36-SO-13.5-031319
Sample Type: Client
Inject. Date: 14-Mar-2019 15:00:30 ALS Bottle#: 5 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-5-A
Misc. Info.: 480-0079374-012
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 17:58:30 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 18:00:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	168747	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	354402	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	338777	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	213953	54.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	141539	56.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	854064	51.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.775	0.001	97	296106	52.7	
10 Dichlorodifluoromethane	85		2.122				ND	
12 Chloromethane	50		2.323				ND	
13 Vinyl chloride	62		2.420				ND	
14 Bromomethane	94		2.737				ND	
15 Chloroethane	64		2.804				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.424				ND	
23 Acetone	43	3.461	3.461	0.000	99	17954	9.72	
26 Carbon disulfide	76		3.649				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.808	3.808	0.000	92	14617	2.84	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96		4.799				ND	
50 Chloroform	83		5.042				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.249				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.517				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.034	6.040	-0.006	77	1440	0.2997	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166		7.725				ND	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.145				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

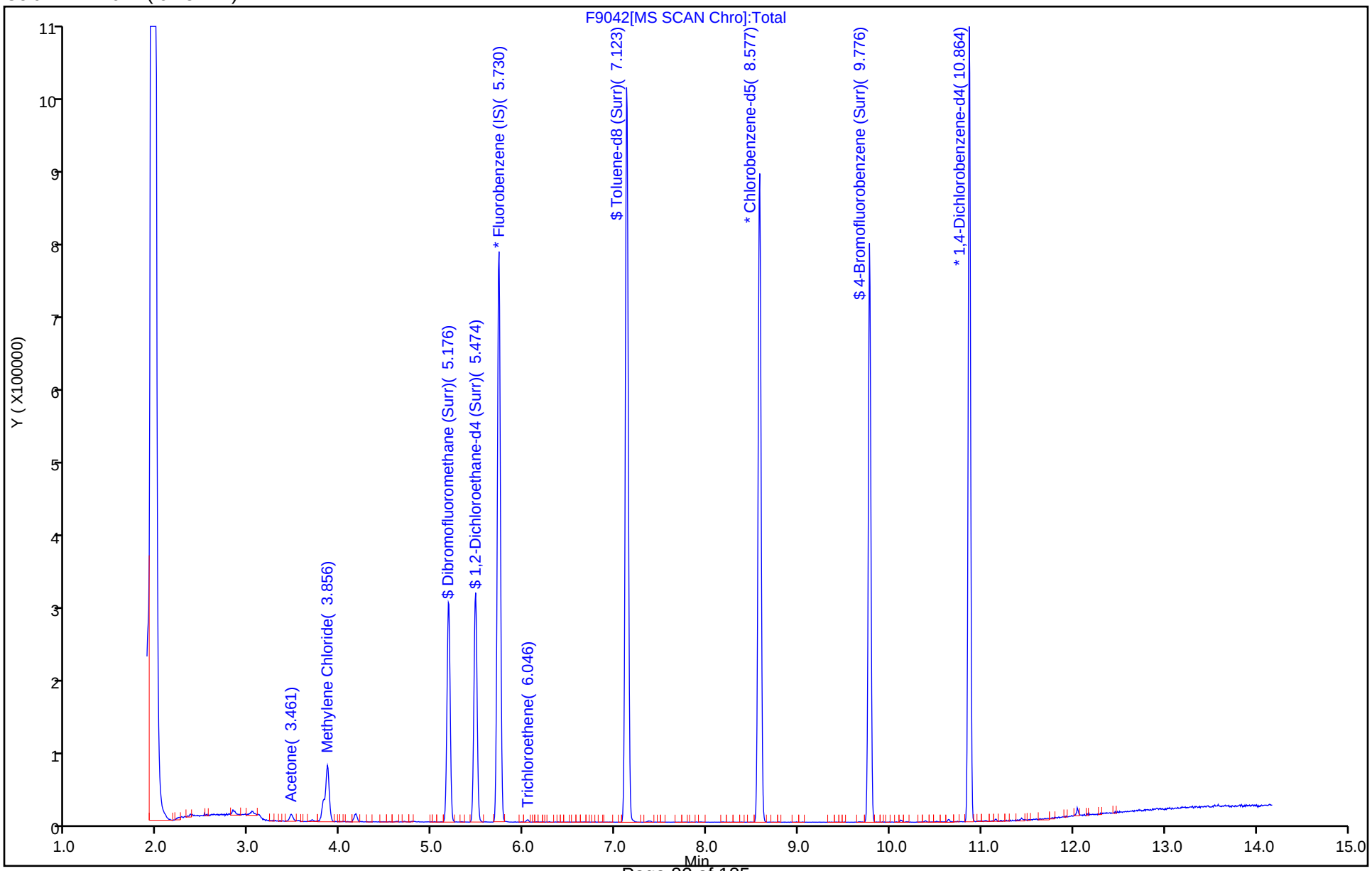
Report Date: 14-Mar-2019 18:00:06 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9042.D

Injection Date:	14-Mar-2019 15:00:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-5-A	Lab Sample ID:	480-150190-5	Worklist Smp#:	12
Client ID:	PDI-36-SO-13.5-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



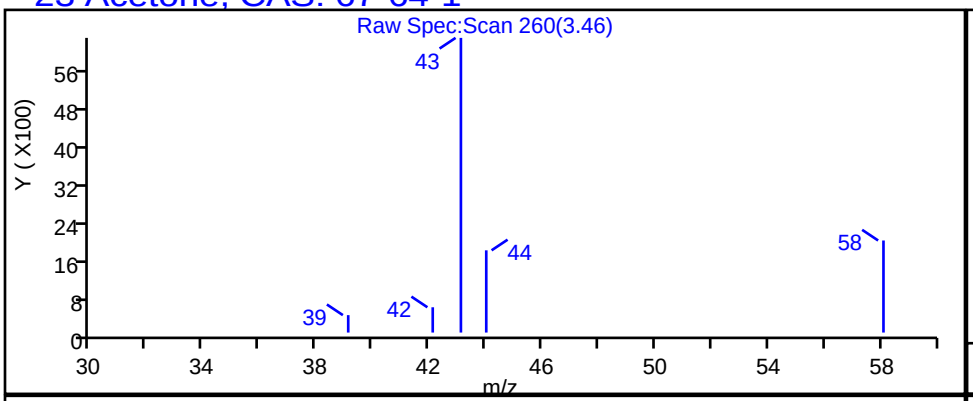
Report Date: 14-Mar-2019 18:00:06 Chrom Revision: 2.3 11-Feb-2019 16:31:10

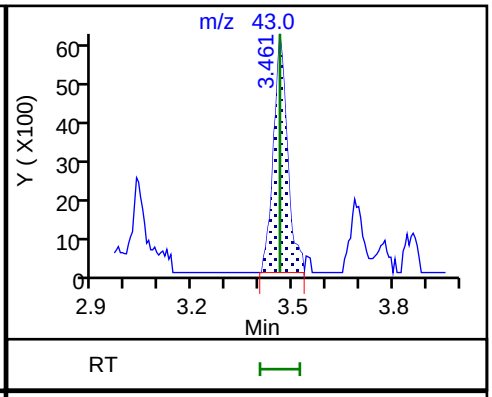
TestAmerica Buffalo

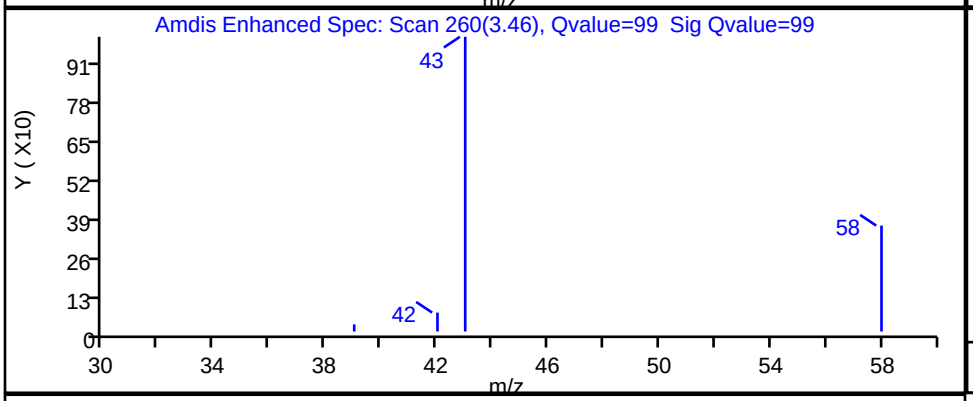
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9042.D

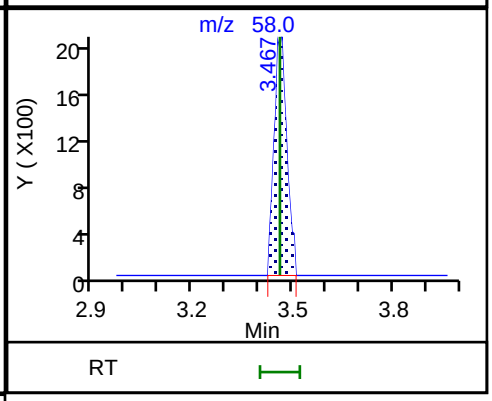
Injection Date:	14-Mar-2019 15:00:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-5-A	Lab Sample ID:	480-150190-5		
Client ID:	PDI-36-SO-13.5-031319				
Operator ID:	CDC	ALS Bottle#:	5	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

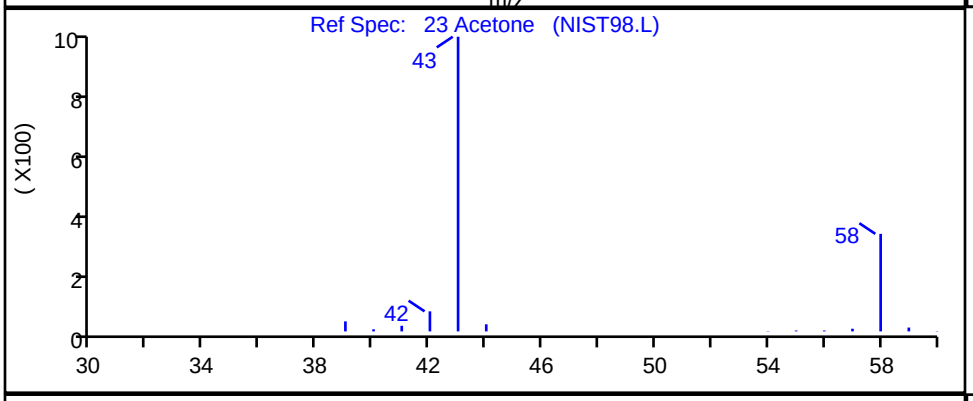
23 Acetone, CAS: 67-64-1

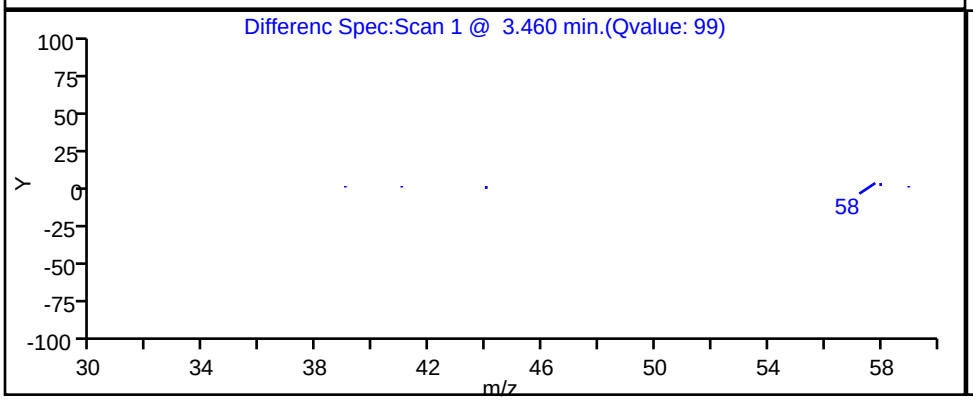


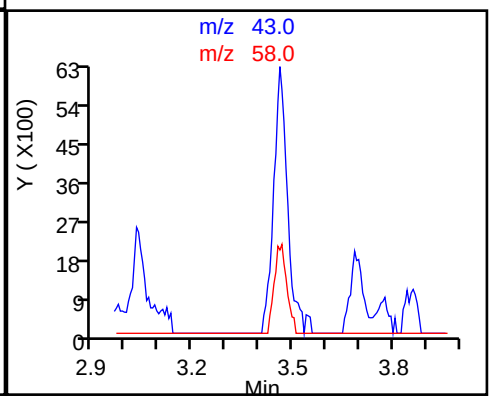












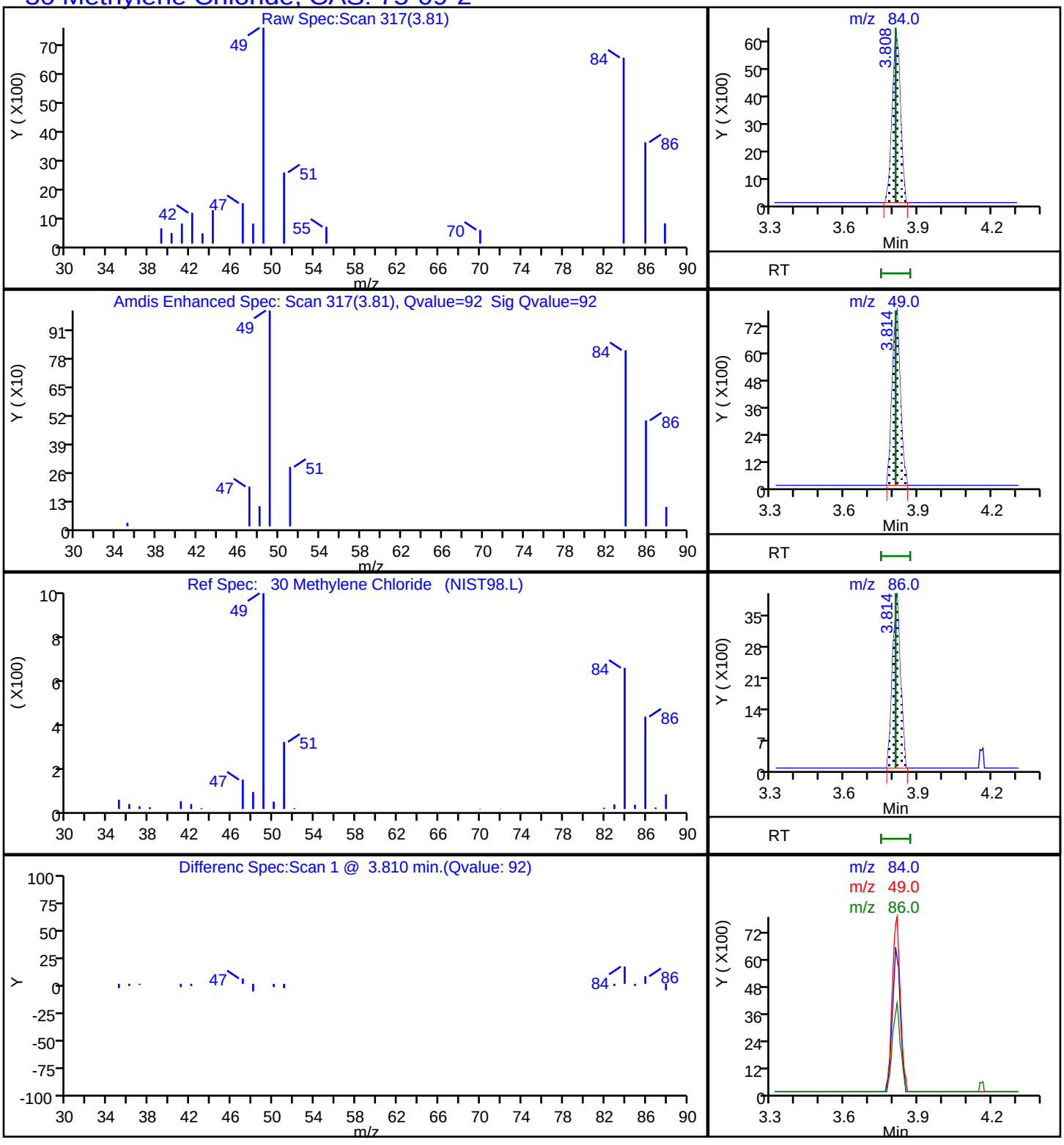
Report Date: 14-Mar-2019 18:00:06 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9042.D

Injection Date:	14-Mar-2019 15:00:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-5-A	Lab Sample ID:	480-150190-5		
Client ID:	PDI-36-SO-13.5-031319				
Operator ID:	CDC	ALS Bottle#:	5	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454682/6	F7813.D
Level 2	IC 480-454682/7	F7814.D
Level 3	IC 480-454682/8	F7815.D
Level 4	IC 480-454682/9	F7816.D
Level 5	ICIS 480-454682/10	F7817.D
Level 6	IC 480-454682/11	F7818.D
Level 7	IC 480-454682/12	F7819.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2372 1.1584	1.2669 1.1092	1.1818	1.1848	1.1755	Ave		1.1877			0.1000	4.3		20.0			
Chloromethane	+++++ 1.2532	1.5006 1.1901	1.4197	1.3008	1.2857	Ave		1.3250			0.1000	8.6		20.0			
Vinyl chloride	1.3582 1.1416	1.2566 1.0880	1.2325	1.1755	1.1703	Ave		1.2033			0.1000	7.3		20.0			
Butadiene	1.3287 1.1136	1.2646 1.0459	1.2503	1.1756	1.1876	Ave		1.1952				8.0		20.0			
Bromomethane	0.7420 0.7041	0.6924 0.6686	0.7042	0.6919	0.7001	Ave		0.7005			0.1000	3.1		20.0			
Chloroethane	0.7717 0.6311	0.7266 0.6011	0.6777	0.6408	0.6368	Ave		0.6694			0.1000	9.0		20.0			
Dichlorofluoromethane	1.6164 1.4723	1.6783 1.4236	1.5792	1.4927	1.4834	Ave		1.5351				5.9		20.0			
Trichlorofluoromethane	1.8104 1.5612	1.7006 1.4742	1.6308	1.5959	1.5888	Ave		1.6231			0.1000	6.6		20.0			
Ethyl ether	1.5051 1.3350	1.3182 1.2578	1.3276	1.3276	1.3440	Ave		1.3450				5.7		20.0			
Acrolein	0.2718 0.2600	0.2489 0.2408	0.2450	0.2502	0.2492	Ave		0.2523				4.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1272 1.0723	1.0739 1.0164	1.0911	1.0897	1.0765	Ave		1.0782			0.1000	3.1		20.0			
1,1-Dichloroethene	1.2890 1.1094	1.1607 1.0639	1.1597	1.1334	1.1181	Ave		1.1478			0.1000	6.1		20.0			
Acetone	0.6167 0.5530	0.5427 0.5175	0.5242	0.5422	0.5357	Ave		0.5474			0.1000	6.0		20.0			
Iodomethane	2.0500 1.9423	1.9064 1.8543	1.9844	1.9357	1.9538	Ave		1.9467				3.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.1849 3.8012	3.9426 3.5723	3.9792	3.8693	3.7608	Ave		3.8729			0.1000	5.0		20.0			
Methyl acetate	1.7217 1.5055	1.5232 1.3967	1.4600	1.4583	1.4953	Ave		1.5087			0.1000	6.8		20.0			
Allyl chloride	2.6490 2.3659	2.4640 2.2077	2.4794	2.4610	2.4441	Ave		2.4387				5.4		20.0			
Methylene Chloride	+++++ 1.3747	1.9518 1.2987	1.6382	1.4921	1.4010	Ave		1.5261			0.1000	15.7		20.0			
2-Methyl-2-propanol	0.2123 0.2061	0.1947 0.1992	0.1838	0.1979	0.1925	Ave		0.1981				4.7		20.0			
Methyl tert-butyl ether	4.4419 4.2840	4.1937 3.9888	4.2105	4.2527	4.2859	Ave		4.2368			0.1000	3.2		20.0			
Acrylonitrile	0.6835 0.6288	0.6315 0.5594	0.6201	0.6248	0.6217	Ave		0.6243				5.8		20.0			
trans-1,2-Dichloroethene	1.4586 1.3385	1.3559 1.2867	1.3250	1.3202	1.3628	Ave		1.3497			0.1000	4.0		20.0			
Hexane	+++++ 2.4374	3.3089 2.3063	2.8172	2.6401	2.5544	Ave		2.6774				13.3		20.0			
Vinyl acetate	3.2933 3.0232	3.0120 2.6738	3.0372	3.0595	3.0675	Ave		3.0238				6.0		20.0			
1,1-Dichloroethane	2.6474 2.4463	2.5052 2.3071	2.5041	2.4641	2.5139	Ave		2.4840			0.2000	4.1		20.0			
2-Butanone (MEK)	0.9779 0.9233	0.9039 0.8265	0.8815	0.8961	0.9077	Ave		0.9024			0.1000	5.0		20.0			
2,2-Dichloropropane	2.1501 1.8323	1.8982 1.7314	1.9219	1.8913	1.8747	Ave		1.9000				6.7		20.0			
cis-1,2-Dichloroethene	1.6961 1.5298	1.5299 1.4583	1.5381	1.5259	1.5564	Ave		1.5478			0.1000	4.7		20.0			
Chlorobromomethane	0.7867 0.7496	0.7133 0.7213	0.7204	0.7301	0.7461	Ave		0.7382				3.4		20.0			
Tetrahydrofuran	0.6886 0.6059	0.6328 0.5648	0.5910	0.5943	0.5933	Ave		0.6101				6.6		20.0			
Chloroform	2.4372 2.2671	2.2842 2.1478	2.3197	2.2659	2.3119	Ave		2.2906			0.2000	3.8		20.0			
1,1,1-Trichloroethane	2.0064 1.8184	1.8501 1.7401	1.8262	1.8227	1.8543	Ave		1.8455			0.1000	4.4		20.0			
Cyclohexane	2.8193 2.4286	2.5433 2.2803	2.4969	2.4664	2.4799	Ave		2.5021			0.1000	6.5		20.0			
1,1-Dichloropropene	2.1034 1.9327	1.9301 1.8380	1.9753	1.9508	1.9908	Ave		1.9602				4.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.6927 1.6721	1.6370 1.6159	1.6588	1.6515	1.6624	Ave		1.6558			0.1000	1.5		20.0			
Isobutyl alcohol	0.0914 0.1041	0.0876 0.0906	0.0927	0.0976	0.0988	Ave		0.0947				6.0		20.0			
Benzene	6.2757 5.5874	5.8002 5.1034	5.7697	5.7104	5.8010	Ave		5.7211			0.5000	6.1		20.0			
1,2-Dichloroethane	2.0337 1.8369	1.9027 1.7471	1.8807	1.8618	1.8880	Ave		1.8787			0.1000	4.6		20.0			
n-Heptane	2.9163 2.5997	2.6632 2.4341	2.7339	2.6872	2.6716	Ave		2.6723				5.4		20.0			
Trichloroethene	1.5100 1.4009	1.4499 1.3388	1.4181	1.4018	1.4461	Ave		1.4236			0.2000	3.7		20.0			
Methylcyclohexane	2.7612 2.5340	2.5640 2.4009	2.5841	2.5777	2.5939	Ave		2.5737			0.1000	4.1		20.0			
1,2-Dichloropropane	1.5615 1.5134	1.4741 1.4428	1.5122	1.4873	1.5490	Ave		1.5058			0.1000	2.8		20.0			
1,4-Dioxane	+++++ 0.0086	0.0059 0.0084	0.0083	0.0083	0.0083	Ave		0.0080				12.7		20.0			
Dibromomethane	0.9044 0.8719	0.8401 0.8428	0.8473	0.8559	0.8745	Ave		0.8624			0.1000	2.7		20.0			
Bromodichloromethane	1.8263 1.8147	1.7089 1.7398	1.7390	1.7565	1.8393	Ave		1.7749			0.2000	2.9		20.0			
2-Chloroethyl vinyl ether	1.0487 1.1171	1.0331 1.0643	1.0405	1.0652	1.1264	Ave		1.0708				3.4		20.0			
cis-1,3-Dichloropropene	2.5051 2.4197	2.3546 2.3022	2.3566	2.3979	2.4821	Ave		2.4026			0.2000	3.0		20.0			
4-Methyl-2-pentanone (MIBK)	0.9011 0.8317	0.8403 0.7158	0.8440	0.8438	0.8302	Ave		0.8296			0.1000	6.7		20.0			
Toluene	2.0024 1.7699	1.8488 1.6893	1.8264	1.8091	1.8251	Ave		1.8244			0.4000	5.2		20.0			
trans-1,3-Dichloropropene	1.1688 1.1460	1.0765 1.1005	1.1092	1.1221	1.1575	Ave		1.1258			0.1000	3.0		20.0			
Ethyl methacrylate	1.0909 1.0635	0.9963 1.0261	1.0181	1.0173	1.0549	Ave		1.0381				3.2		20.0			
1,1,2-Trichloroethane	0.5785 0.5481	0.5322 0.5319	0.5364	0.5352	0.5497	Ave		0.5446			0.1000	3.1		20.0			
Tetrachloroethene	0.8609 0.7890	0.7915 0.7646	0.8121	0.7950	0.8120	Ave		0.8036			0.2000	3.7		20.0			
1,3-Dichloropropane	1.2206 1.1845	1.1625 1.1355	1.1937	1.1749	1.1985	Ave		1.1814				2.3		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.7017 0.6736	0.6687 0.5868	0.6525	0.6666	0.6677	Ave		0.6596			0.1000	5.4		20.0			
Dibromochloromethane	0.6591 0.7378	0.6366 0.7336	0.6616	0.6743	0.7284	Ave		0.6902			0.1000	6.1		20.0			
1,2-Dibromoethane	0.6782 0.6962	0.6531 0.6768	0.6619	0.6719	0.6946	Ave		0.6761				2.3		20.0			
Chlorobenzene	2.1975 2.0126	2.0507 1.9097	2.0451	2.0394	2.0761	Ave		2.0473			0.5000	4.2		20.0			
Ethylbenzene	3.5562 3.1827	3.3868 2.9291	3.3707	3.2987	3.3541	Ave		3.2969			0.1000	6.0		20.0			
1,1,1,2-Tetrachloroethane	0.6726 0.6854	0.6345 0.6719	0.6484	0.6520	0.6778	Ave		0.6632				2.8		20.0			
m,p-Xylene	1.4339 1.3359	1.3316 1.2927	1.3624	1.3430	1.3694	Ave		1.3527			0.1000	3.2		20.0			
o-Xylene	1.3563 1.2532	1.2593 1.2119	1.2813	1.2574	1.2775	Ave		1.2710			0.3000	3.5		20.0			
Styrene	2.4020 2.2648	2.2742 2.1477	2.2884	2.2659	2.3408	Ave		2.2834			0.3000	3.4		20.0			
Bromoform	0.4326 0.5377	0.4129 0.5403	0.4477	0.4651	0.5138	Ave		0.4786			0.1000	10.8		20.0			
Isopropylbenzene	3.6892 3.1129	3.4575 2.7887	3.4176	3.2793	3.2165	Ave		3.2802			0.1000	8.7		20.0			
1,1,2,2-Tetrachloroethane	0.9282 0.8884	0.8773 0.8379	0.8787	0.8711	0.8730	Ave		0.8792			0.3000	3.0		20.0			
Bromobenzene	1.0131 0.9243	0.9322 0.8717	0.9480	0.9331	0.9307	Ave		0.9362				4.4		20.0			
trans-1,4-Dichloro-2-butene	0.3348 0.3250	0.2986 0.3066	0.3001	0.3113	0.3157	Ave		0.3132				4.2		20.0			
1,2,3-Trichloropropane	0.3068 0.2883	0.2792 0.2751	0.2744	0.2769	0.2798	Ave		0.2829				4.1		20.0			
N-Propylbenzene	4.3809 3.7289	4.1120 3.2447	4.0820	3.9609	3.9380	Ave		3.9210				9.1		20.0			
2-Chlorotoluene	0.8771 0.8180	0.8357 0.7834	0.8430	0.8304	0.8263	Ave		0.8306				3.4		20.0			
1,3,5-Trimethylbenzene	3.0341 2.6652	2.8763 2.4022	2.8299	2.7816	2.7431	Ave		2.7618				7.1		20.0			
4-Chlorotoluene	0.9493 0.8882	0.9105 0.8459	0.8986	0.8850	0.9059	Ave		0.8976				3.5		20.0			
tert-Butylbenzene	0.7407 0.6419	0.6784 0.6064	0.6696	0.6616	0.6502	Ave		0.6641				6.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0836 2.7511	2.9294 2.4717	2.9039	2.8286	2.8264	Ave		2.8278				6.7		20.0			
sec-Butylbenzene	4.0513 3.3554	3.7275 2.9215	3.6880	3.5840	3.4882	Ave		3.5451				9.9		20.0			
4-Isopropyltoluene	3.4066 2.9889	3.2082 2.6216	3.2052	3.1248	3.0830	Ave		3.0912				7.9		20.0			
1,3-Dichlorobenzene	1.8322 1.6846	1.7331 1.5692	1.7259	1.7074	1.7135	Ave		1.7094			0.6000	4.5		20.0			
1,4-Dichlorobenzene	1.8913 1.7253	1.7682 1.6049	1.7663	1.7468	1.7565	Ave		1.7513			0.5000	4.8		20.0			
n-Butylbenzene	3.0687 2.6229	2.7973 2.3330	2.7901	2.7201	2.7197	Ave		2.7217				8.1		20.0			
1,2-Dichlorobenzene	1.6980 1.5714	1.5900 1.4717	1.5845	1.5816	1.5828	Ave		1.5828			0.4000	4.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1802	0.1895 0.1707	0.1693	0.1705	0.1671	Ave		0.1745			0.0500	4.9		20.0			
1,2,4-Trichlorobenzene	1.1549 1.0647	1.0828 1.0093	1.0821	1.0653	1.0442	Ave		1.0719			0.2000	4.2		20.0			
Hexachlorobutadiene	0.6281 0.5774	0.6088 0.5434	0.6277	0.5944	0.5841	Ave		0.5949				5.1		20.0			
Naphthalene	2.9313 2.8353	2.7802 2.5609	2.7608	2.7682	2.7300	Ave		2.7667				4.1		20.0			
1,2,3-Trichlorobenzene	1.0612 1.0094	0.9992 0.9474	1.0073	0.9999	0.9709	Ave		0.9993				3.5		20.0			
Dibromofluoromethane (Surr)	1.1653 1.1592	1.1477 1.1590	1.1475	1.1573	1.1630	Ave		1.1570				0.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7495 0.7519	0.7404 0.7431	0.7361	0.7445	0.7457	Ave		0.7445				0.7		20.0			
Toluene-d8 (Surr)	2.3591 2.3537	2.3446 2.3656	2.3581	2.3631	2.3646	Ave		2.3584				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.7814 0.7971	0.7799 0.8092	0.7891	0.7927	0.8037	Ave		0.7933				1.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454682/6	F7813.D
Level 2	IC 480-454682/7	F7814.D
Level 3	IC 480-454682/8	F7815.D
Level 4	IC 480-454682/9	F7816.D
Level 5	ICIS 480-454682/10	F7817.D
Level 6	IC 480-454682/11	F7818.D
Level 7	IC 480-454682/12	F7819.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13318 506752	27648 1005047	51394	102968	261704	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	+++++ 548209	32749 1078360	61741	113047	286233	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	14621 499413	27425 985870	53600	102153	260555	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	14303 487158	27599 947739	54375	102164	264396	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	7988 308009	15111 605860	30626	60127	155859	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	8307 276074	15857 544627	29472	55685	141782	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	17400 644068	36627 1289917	68676	129722	330266	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	19489 682933	37113 1335814	70923	138688	353717	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	16202 583977	28769 1139686	57736	115375	299212	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	14631 568654	27158 1091077	53280	108739	277420	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	12134 469094	23437 920954	47451	94703	239663	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	13876 485306	25332 963990	50435	98498	248935	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	33196 1209647	59216 2344436	113985	235584	596308	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	22068 849657	41605 1680217	86298	168217	434988	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	45050 1662855	86043 3236892	173051	336257	837284	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	37068 1317143	66483 2531214	126992	253458	665832	5.00 200	10.0 400	20.0	40.0	100
Allyl chloride	FB	Ave	28516 1034948	53775 2000403	107826	213871	544152	2.50 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 601375	42596 1176733	71245	129667	311909	+++++ 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	22857 901411	42498 1804929	79912	171991	428503	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	47816 1874061	91522 3614315	183110	369580	954192	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	73575 2750873	137812 5069207	269684	542960	1384207	25.0 1000	50.0 2000	100	200	500
trans-1,2-Dichloroethene	FB	Ave	15702 585542	29591 1165912	57622	114732	303407	2.50 100	5.00 200	10.0	20.0	50.0
Hexane	FB	Ave	+++++ 1066250	72213 2089740	122516	229440	568694	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	70904 2645052	131468 4845563	264175	531768	1365894	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	28499 1070121	54674 2090476	108900	214139	559681	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	52634 2019424	98628 3744517	191684	389355	1010438	12.5 500	25.0 1000	50.0	100	250
2,2-Dichloropropane	FB	Ave	23145 801562	41426 1568850	83583	164364	417371	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	18258 669229	33388 1321377	66892	132607	346501	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	8469 327928	15566 653541	31329	63452	166102	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	14826 530080	27619 1023531	51400	103288	264188	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	26236 991751	49850 1946157	100884	196921	514718	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	21599 795445	40376 1576736	79422	158400	412830	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	30349 1062399	55505 2066261	108589	214342	552117	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	22643 845465	42123 1665396	85903	169533	443231	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	18222 731452	35726 1464159	72138	143523	370099	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	24610 1138742	47775 2052188	100797	212087	549788	62.5 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	67557 2444218	126582 4624286	250920	496262	1291501	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	21893 803541	41524 1583056	81792	161795	420343	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	31393 1137249	58121 2205578	118894	233529	594798	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	16255 612811	31643 1213098	61670	121820	321945	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	29724 1108516	55957 2175471	112380	224012	577488	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	16809 662052	32171 1307363	65766	129249	344858	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 150244	5157 300176	14336	28990	74979	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	9736 381419	18335 763630	36847	74378	194688	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	19660 793847	37295 1576440	75626	152646	409488	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	11289 488664	22547 964347	45250	92574	250777	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	26967 1058495	51387 2086101	102485	208385	552594	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	97181 3628242	182603 6369756	364109	735582	1872880	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	43188 1544218	80353 3006350	157587	315409	823455	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	25210 999859	46788 1958418	95702	195637	522232	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	23528 927874	43304 1826053	87843	177359	475944	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	12477 478262	23132 946636	46279	93313	248031	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	18569 688441	34401 1360757	70070	138599	366384	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	26326 1033474	50527 2020751	102994	204840	540740	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	75670 2938438	145316 5221587	281507	581117	1506182	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Ave	14215 643734	27669 1305566	57087	117567	328641	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	14627 607455	28384 1204383	57106	117149	313415	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	47396 1756025	89131 3398623	176456	355559	936705	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	76701 2776980	147204 5212700	290831	575117	1513322	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	14506 598015	27577 1195702	55945	113673	305822	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	30926 1165600	57876 2300620	117549	234147	617840	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	29254 1093442	54733 2156835	110554	219225	576413	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	51808 1976086	98843 3822115	197450	395064	1056122	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Ave	9331 469160	17944 961529	38626	81082	231828	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	74710 2666193	141480 5002221	281165	551445	1428678	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	18796 760916	35901 1502928	72293	146480	387774	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	20516 791690	38146 1563567	77989	156906	413403	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	6780 278384	12220 550049	24689	52348	140236	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	6212 246945	11426 493421	22572	46571	124259	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	88717 3193840	168264 5820069	335825	666044	1749157	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	17762 700639	34197 1405132	69356	139633	367013	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	61444 2282732	117698 4308927	232820	467744	1218417	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	19224 760717	37259 1517258	73927	148820	402384	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	14999 549819	27761 1087670	55085	111258	288805	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	62446 2356324	119871 4433589	238901	475645	1255418	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	82042 2873863	152530 5240484	303412	602670	1549374	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	68986 2559976	131282 4702402	263690	525455	1369409	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	37104 1442892	70920 2814763	141992	287106	761102	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	38300 1477718	72356 2878747	145312	293736	780195	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	62144 2246517	114467 4184742	229539	457396	1208037	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	34387 1345862	65063 2639790	130361	265950	703020	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 154342	7753 306137	13926	28675	74229	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	23388 911926	44307 1810379	89026	179145	463811	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	12720 494571	24914 974637	51645	99950	259458	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	59361 2428416	113765 4593618	227133	465488	1212614	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	21491 864578	40886 1699405	82875	168137	431254	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	250882 253552	250470 262551	249518	251435	258922	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	161372 164458	161584 168342	160056	161755	166014	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1017660 1026794	1019046 1052465	1017277	1030021	1066872	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	337087 347746	338986 360002	340409	345511	362603	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jan-2019 11:17:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0077924-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:31 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:54:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.730	-0.006	99	215297	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	431369	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.870	0.000	95	405019	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	250882	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	161372	50.0	50.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1017660	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	337087	50.0	49.3	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	98	13318	2.50	2.60	
12 Chloromethane	50	2.311	2.317	-0.006	99	18653	2.50	3.27	M
13 Vinyl chloride	62	2.414	2.414	0.000	79	14621	2.50	2.82	
151 Butadiene	54	2.420	2.433	-0.013	90	14303	2.50	2.78	M
14 Bromomethane	94	2.737	2.737	0.000	87	7988	2.50	2.65	M
15 Chloroethane	64	2.785	2.798	-0.013	97	8307	2.50	2.88	
16 Dichlorofluoromethane	67	2.950	2.962	-0.012	96	17400	2.50	2.63	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	19489	2.50	2.79	
18 Ethyl ether	59	3.187	3.193	-0.006	91	16202	2.50	2.80	
20 Acrolein	56	3.339	3.339	0.000	99	14631	12.5	13.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	89	12134	2.50	2.61	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	13876	2.50	2.81	
23 Acetone	43	3.455	3.455	-0.001	99	33196	12.5	14.1	
25 Iodomethane	142	3.570	3.582	-0.012	97	22068	2.50	2.63	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	45050	2.50	2.70	
27 Methyl acetate	43	3.686	3.686	0.000	97	37068	5.00	5.71	
28 3-Chloro-1-propene	41	3.692	3.698	-0.006	91	28516	2.50	2.72	
30 Methylene Chloride	84	3.801	3.808	-0.007	97	28630	2.50	4.36	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	99	22857	25.0	26.8	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	47816	2.50	2.62	
33 Acrylonitrile	53	3.996	4.002	-0.006	100	73575	25.0	27.4	
34 trans-1,2-Dichloroethene	96	4.002	4.008	-0.006	95	15702	2.50	2.70	
35 Hexane	57	4.154	4.160	-0.006	94	46550	2.50	4.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.324	4.325	-0.001	97	70904	5.00	5.45	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	28499	2.50	2.66	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	99	52634	12.5	13.5	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	18258	2.50	2.74	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	60	23145	2.50	2.83	
48 Chlorobromomethane	128	5.006	5.006	0.000	97	8469	2.50	2.66	
49 Tetrahydrofuran	42	5.030	5.036	-0.006	73	14826	5.00	5.64	
50 Chloroform	83	5.036	5.043	-0.007	95	26236	2.50	2.66	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	21599	2.50	2.72	
52 Cyclohexane	56	5.249	5.243	0.006	90	30349	2.50	2.82	
54 1,1-Dichloropropene	75	5.322	5.328	-0.006	97	22643	2.50	2.68	
55 Carbon tetrachloride	117	5.334	5.341	-0.007	92	18222	2.50	2.56	
53 Isobutyl alcohol	43	5.353	5.347	0.006	93	24610	62.5	60.4	
57 Benzene	78	5.511	5.517	-0.006	94	67557	2.50	2.74	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	21893	2.50	2.71	
59 n-Heptane	43	5.620	5.620	0.000	94	31393	2.50	2.73	
62 Trichloroethene	95	6.040	6.040	0.000	96	16255	2.50	2.65	
64 Methylcyclohexane	83	6.192	6.198	-0.006	89	29724	2.50	2.68	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	95	16809	2.50	2.59	
66 1,4-Dioxane	88	6.356	6.357	-0.001	45	2341	50.0	34.0	
67 Dibromomethane	93	6.387	6.387	0.000	94	9736	2.50	2.62	
68 Dichlorobromomethane	83	6.484	6.490	-0.006	99	19660	2.50	2.57	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	11289	2.50	2.45	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	95	26967	2.50	2.61	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	97181	12.5	13.6	
74 Toluene	92	7.190	7.190	0.000	98	43188	2.50	2.74	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	97	25210	2.50	2.60	
75 Ethyl methacrylate	69	7.403	7.403	0.000	89	23528	2.50	2.63	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	12477	2.50	2.66	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	18569	2.50	2.68	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	94	26326	2.50	2.58	
80 2-Hexanone	43	7.780	7.774	0.006	97	75670	12.5	13.3	
83 Chlorodibromomethane	129	8.005	8.005	0.000	89	14215	2.50	2.39	
84 Ethylene Dibromide	107	8.139	8.145	-0.006	99	14627	2.50	2.51	
87 Chlorobenzene	112	8.607	8.608	-0.001	96	47396	2.50	2.68	
88 Ethylbenzene	91	8.674	8.674	0.000	98	76701	2.50	2.70	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	93	14506	2.50	2.54	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	30926	2.50	2.65	
91 o-Xylene	106	9.222	9.222	0.000	96	29254	2.50	2.67	
92 Styrene	104	9.240	9.240	0.000	95	51808	2.50	2.63	
95 Bromoform	173	9.489	9.496	-0.007	95	9331	2.50	2.26	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	74710	2.50	2.81	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.915	-0.006	95	18796	2.50	2.64	
101 Bromobenzene	156	9.946	9.946	0.000	88	20516	2.50	2.71	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	73	6780	2.50	2.67	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	84	6212	2.50	2.71	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	88717	2.50	2.79	
103 2-Chlorotoluene	126	10.116	10.110	0.006	97	17762	2.50	2.64	
102 1,3,5-Trimethylbenzene	105	10.146	10.147	-0.001	95	61444	2.50	2.75	
105 4-Chlorotoluene	126	10.207	10.214	-0.007	97	19224	2.50	2.64	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	14999	2.50	2.79	
107 1,2,4-Trimethylbenzene	105	10.511	10.512	-0.001	96	62446	2.50	2.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	82042	2.50	2.86	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	68986	2.50	2.76	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	96	37104	2.50	2.68	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	94	38300	2.50	2.70	
115 n-Butylbenzene	91	11.150	11.150	0.000	98	62144	2.50	2.82	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	34387	2.50	2.68	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	83	4862	2.50	3.44	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	23388	2.50	2.69	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	12720	2.50	2.64	
121 Naphthalene	128	12.811	12.811	0.000	97	59361	2.50	2.65	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	21491	2.50	2.65	
S 125 1,2-Dichloroethene, Total	1				0			5.44	
S 126 1,3-Dichloropropene, Total	1				0			5.20	
S 123 Total BTEX	1				0			13.5	
S 124 Xylenes, Total	1				0			5.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added:	2.50	Units: uL	
GAS CORP mix_00321	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00078	Amount Added:	1.00	Units: uL	Run Reagent

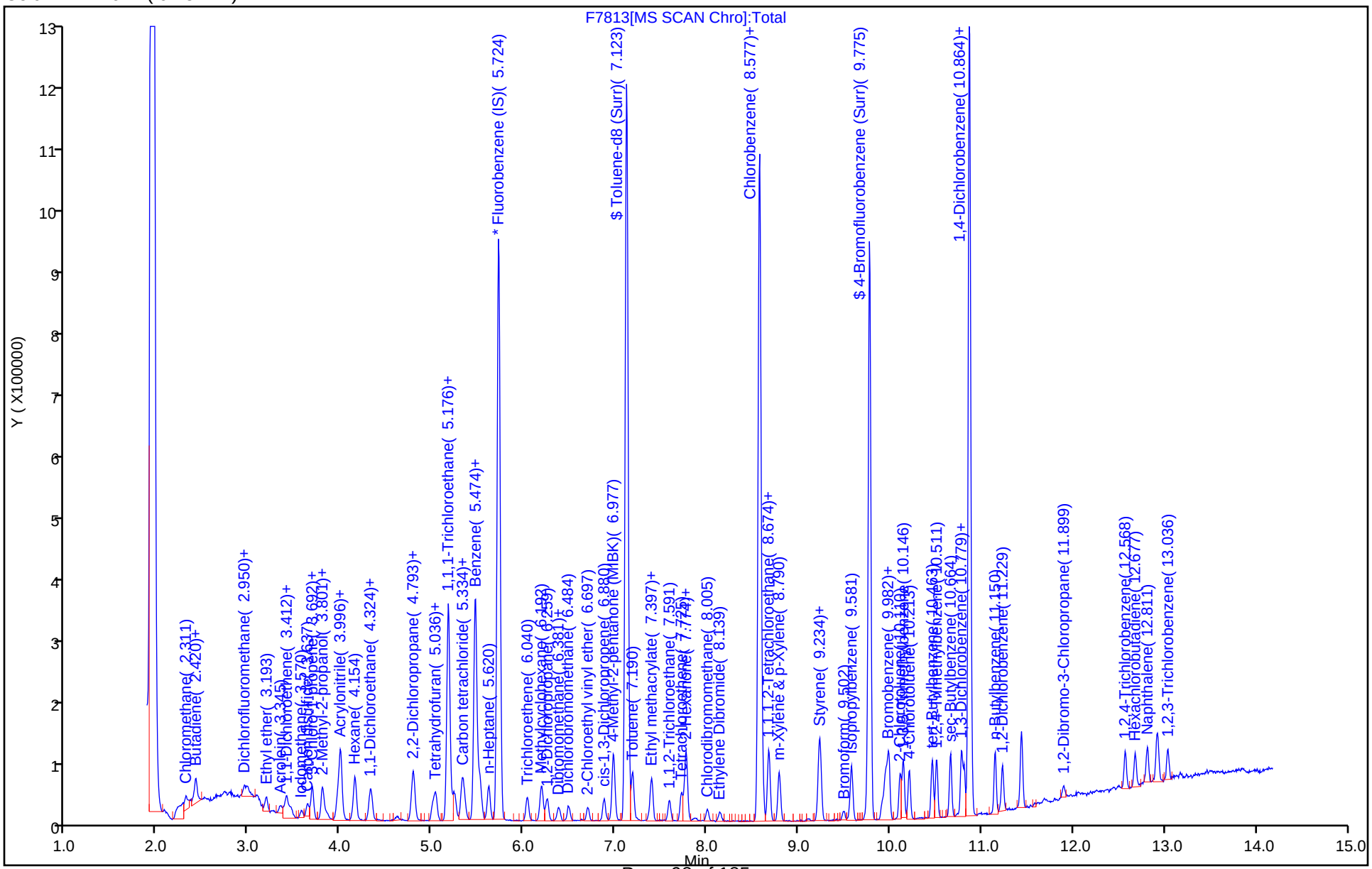
Report Date: 14-Jan-2019 10:30:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D

Injection Date:	11-Jan-2019 11:17:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

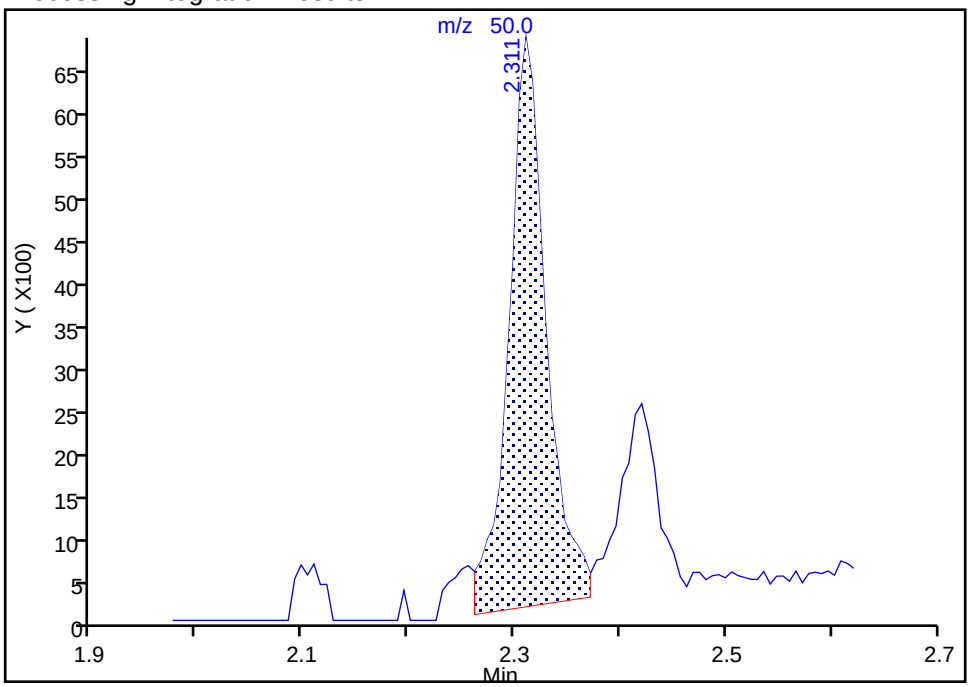
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

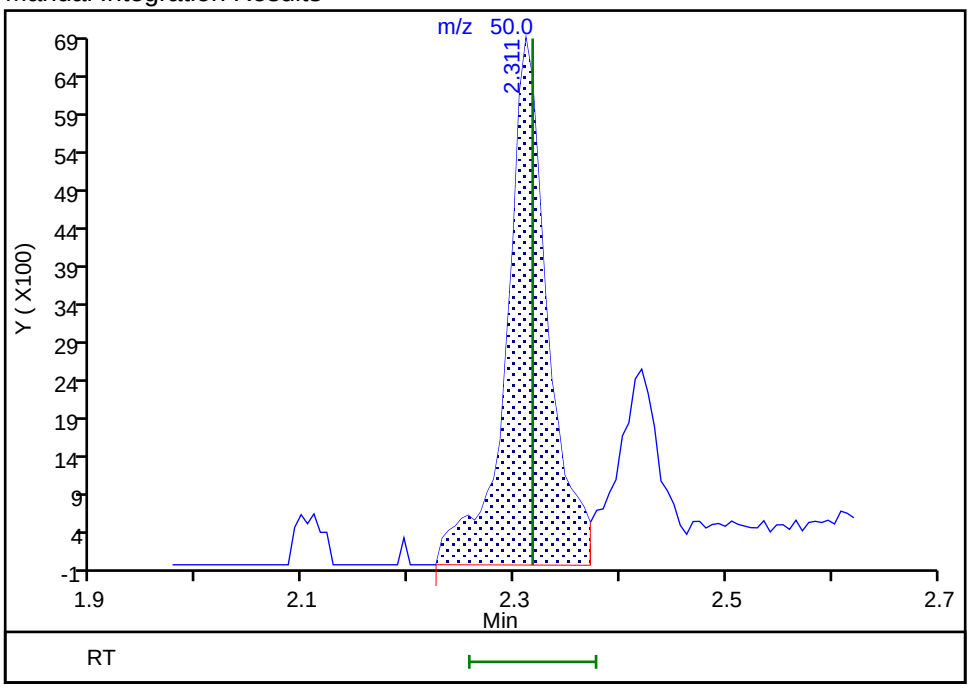
Processing Integration Results

RT: 2.31
Area: 16520
Amount: 2.874025
Amount Units: ug/kg



Manual Integration Results

RT: 2.31
Area: 18653
Amount: 3.269359
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:57:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

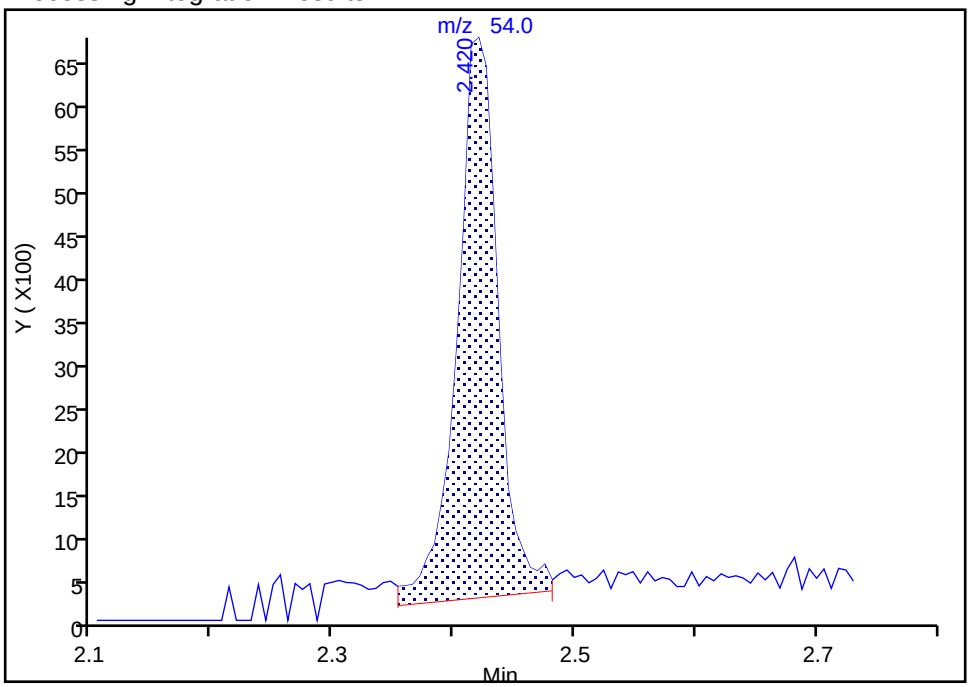
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

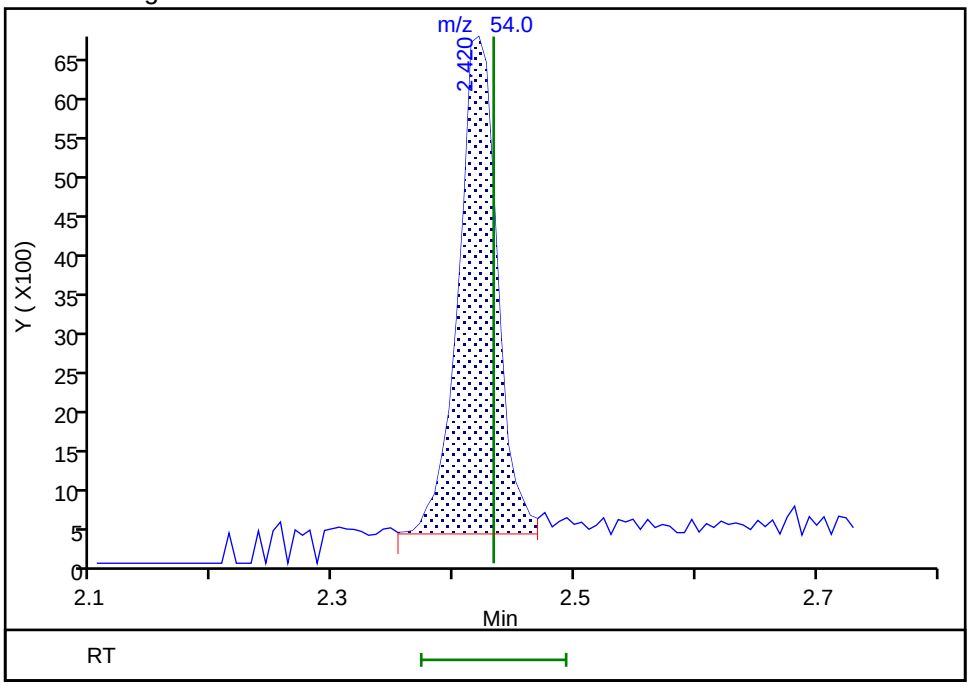
Processing Integration Results

RT: 2.42
Area: 15392
Amount: 2.843923
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 14303
Amount: 2.779215
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:53:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

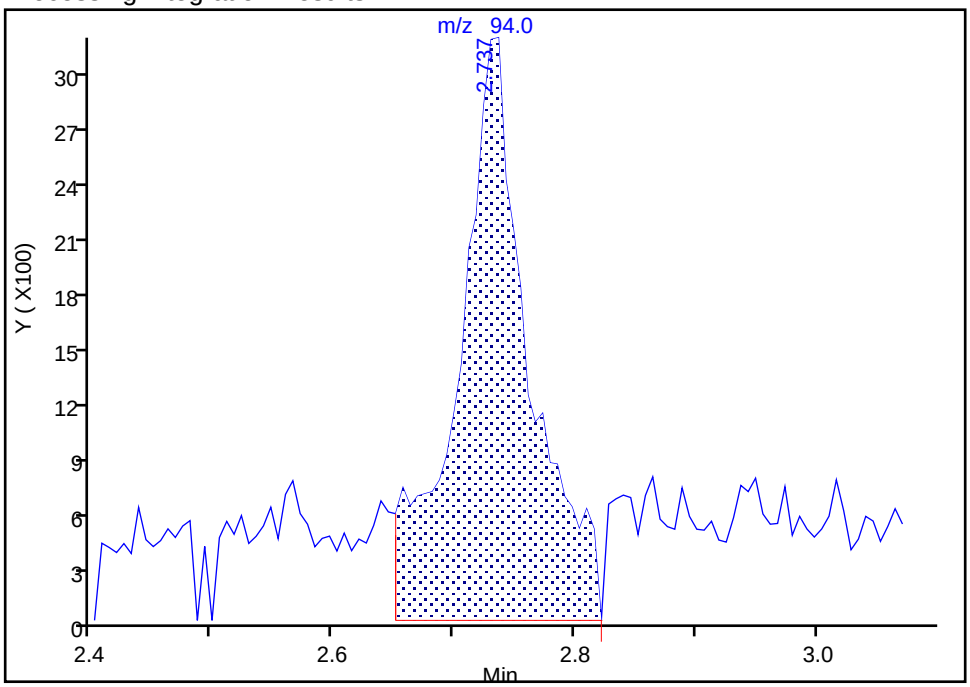
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

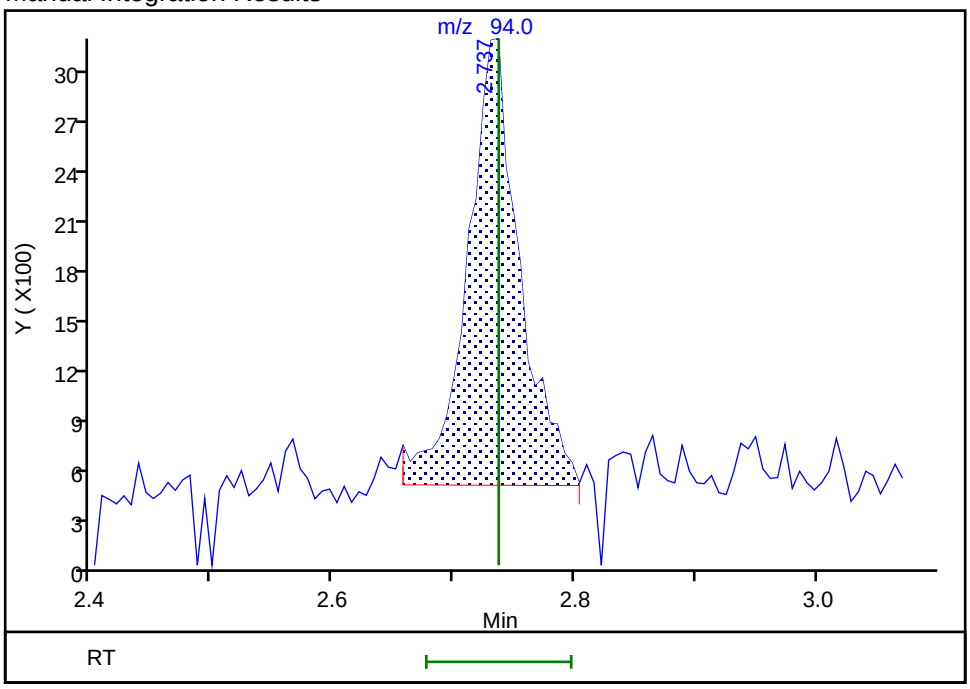
Processing Integration Results

RT: 2.74
Area: 12928
Amount: 2.930150
Amount Units: ug/kg



Manual Integration Results

RT: 2.74
Area: 7988
Amount: 2.648354
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:53:28
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jan-2019 11:43:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0077924-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:41 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:54:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.730	-0.006	99	218239	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	434634	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.870	-0.006	95	409203	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	250470	50.0	49.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	161584	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1019046	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	338986	50.0	49.2	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	98	27648	5.00	5.33	
12 Chloromethane	50	2.311	2.317	-0.006	99	32749	5.00	5.66	M
13 Vinyl chloride	62	2.414	2.414	0.000	96	27425	5.00	5.22	
151 Butadiene	54	2.427	2.433	-0.007	91	27599	5.00	5.29	M
14 Bromomethane	94	2.731	2.737	-0.006	89	15111	5.00	4.94	M
15 Chloroethane	64	2.785	2.798	-0.013	98	15857	5.00	5.43	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	36627	5.00	5.47	
17 Trichlorofluoromethane	101	2.986	2.992	-0.006	98	37113	5.00	5.24	
18 Ethyl ether	59	3.193	3.193	0.000	92	28769	5.00	4.90	
20 Acrolein	56	3.339	3.339	0.000	99	27158	25.0	24.7	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	92	23437	5.00	4.98	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	25332	5.00	5.06	
23 Acetone	43	3.461	3.455	0.006	99	59216	25.0	24.8	
25 Iodomethane	142	3.576	3.582	-0.006	98	41605	5.00	4.90	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	86043	5.00	5.09	
27 Methyl acetate	43	3.686	3.686	0.000	98	66483	10.0	10.1	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	92	53775	5.00	5.05	
30 Methylene Chloride	84	3.801	3.808	-0.007	96	42596	5.00	6.39	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	99	42498	50.0	49.2	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	91522	5.00	4.95	
33 Acrylonitrile	53	4.002	4.002	0.000	99	137812	50.0	50.6	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	97	29591	5.00	5.02	
35 Hexane	57	4.160	4.160	0.000	93	72213	5.00	6.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	131468	10.0	9.96	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	54674	5.00	5.04	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	98628	25.0	25.0	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	83	33388	5.00	4.94	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	59	41426	5.00	5.00	
48 Chlorobromomethane	128	5.006	5.006	0.000	94	15566	5.00	4.83	
49 Tetrahydrofuran	42	5.036	5.036	0.000	71	27619	10.0	10.4	
50 Chloroform	83	5.036	5.043	-0.007	93	49850	5.00	4.99	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	99	40376	5.00	5.01	
52 Cyclohexane	56	5.237	5.243	-0.006	91	55505	5.00	5.08	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	98	42123	5.00	4.92	
55 Carbon tetrachloride	117	5.341	5.341	0.000	92	35726	5.00	4.94	
53 Isobutyl alcohol	43	5.347	5.347	0.000	96	47775	125.0	115.6	
57 Benzene	78	5.511	5.517	-0.006	92	126582	5.00	5.07	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	41524	5.00	5.06	
59 n-Heptane	43	5.620	5.620	0.000	94	58121	5.00	4.98	
62 Trichloroethene	95	6.040	6.040	0.000	97	31643	5.00	5.09	
64 Methylcyclohexane	83	6.192	6.198	-0.006	90	55957	5.00	4.98	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	96	32171	5.00	4.89	
66 1,4-Dioxane	88	6.363	6.357	0.006	90	5157	100.0	74.3	
67 Dibromomethane	93	6.387	6.387	0.000	93	18335	5.00	4.87	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	37295	5.00	4.81	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	22547	5.00	4.82	
72 cis-1,3-Dichloropropene	75	6.874	6.880	-0.006	96	51387	5.00	4.90	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	182603	25.0	25.3	
74 Toluene	92	7.190	7.190	0.000	99	80353	5.00	5.07	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	95	46788	5.00	4.78	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	43304	5.00	4.80	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	23132	5.00	4.89	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	34401	5.00	4.92	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	95	50527	5.00	4.92	
80 2-Hexanone	43	7.774	7.774	0.000	97	145316	25.0	25.3	
83 Chlorodibromomethane	129	8.005	8.005	0.000	89	27669	5.00	4.61	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	28384	5.00	4.83	
87 Chlorobenzene	112	8.607	8.608	-0.001	96	89131	5.00	5.01	
88 Ethylbenzene	91	8.674	8.674	0.000	98	147204	5.00	5.14	
89 1,1,1,2-Tetrachloroethane	131	8.687	8.681	0.005	92	27577	5.00	4.78	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	100	57876	5.00	4.92	
91 o-Xylene	106	9.222	9.222	0.000	96	54733	5.00	4.95	
92 Styrene	104	9.240	9.240	0.000	95	98843	5.00	4.98	
95 Bromoform	173	9.496	9.496	0.000	95	17944	5.00	4.31	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	141480	5.00	5.27	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	93	35901	5.00	4.99	
101 Bromobenzene	156	9.946	9.946	0.000	94	38146	5.00	4.98	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	68	12220	5.00	4.77	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	86	11426	5.00	4.93	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	168264	5.00	5.24	
103 2-Chlorotoluene	126	10.110	10.110	0.000	97	34197	5.00	5.03	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	117698	5.00	5.21	
105 4-Chlorotoluene	126	10.213	10.214	-0.001	97	37259	5.00	5.07	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	27761	5.00	5.11	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	96	119871	5.00	5.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	152530	5.00	5.26	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	131282	5.00	5.19	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	70920	5.00	5.07	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	72356	5.00	5.05	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	114467	5.00	5.14	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	99	65063	5.00	5.02	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	86	7753	5.00	5.43	
119 1,2,4-Trichlorobenzene	180	12.574	12.568	0.006	94	44307	5.00	5.05	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	24914	5.00	5.12	
121 Naphthalene	128	12.811	12.811	0.000	97	113765	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	95	40886	5.00	5.00	
S 125 1,2-Dichloroethene, Total	1				0			9.97	
S 126 1,3-Dichloropropene, Total	1				0			9.68	
S 123 Total BTEX	1				0			25.1	
S 124 Xylenes, Total	1				0			9.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added:	5.00	Units: uL	
GAS CORP mix_00321	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00078	Amount Added:	1.00	Units: uL	Run Reagent

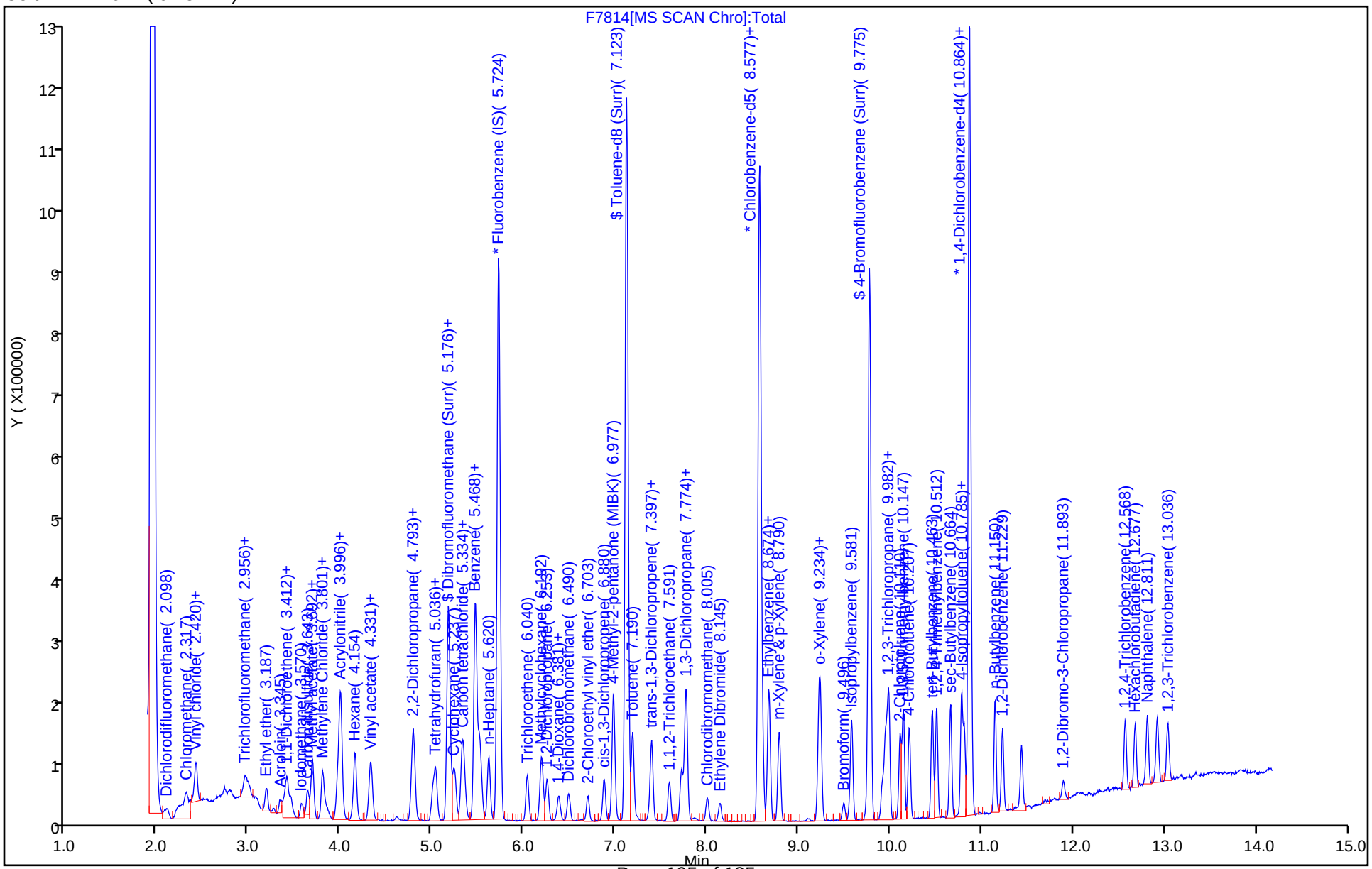
Report Date: 14-Jan-2019 10:30:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D

Injection Date:	11-Jan-2019 11:43:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

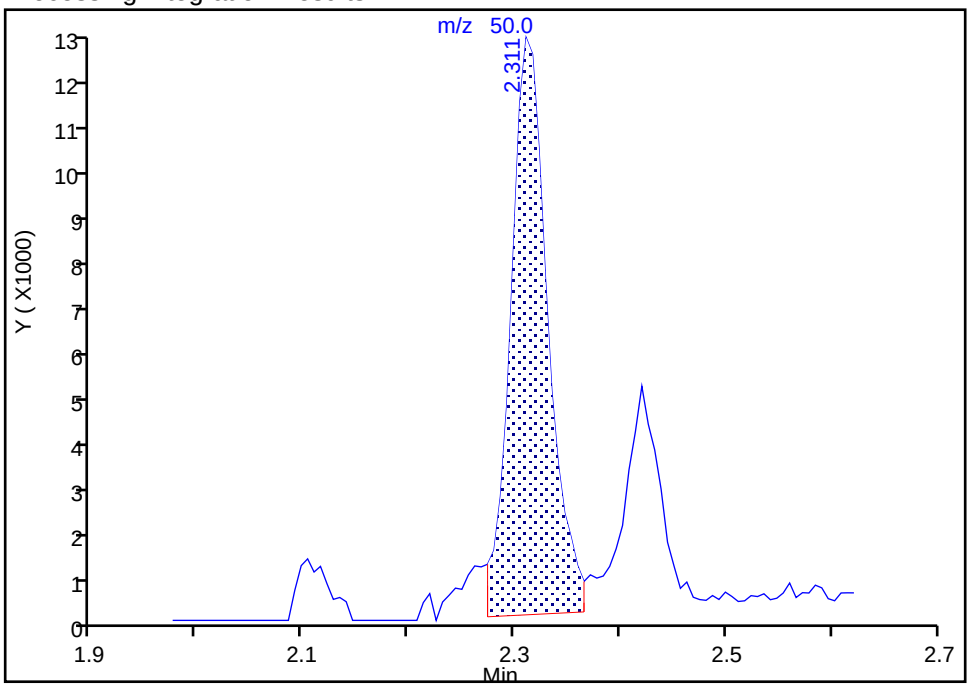
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

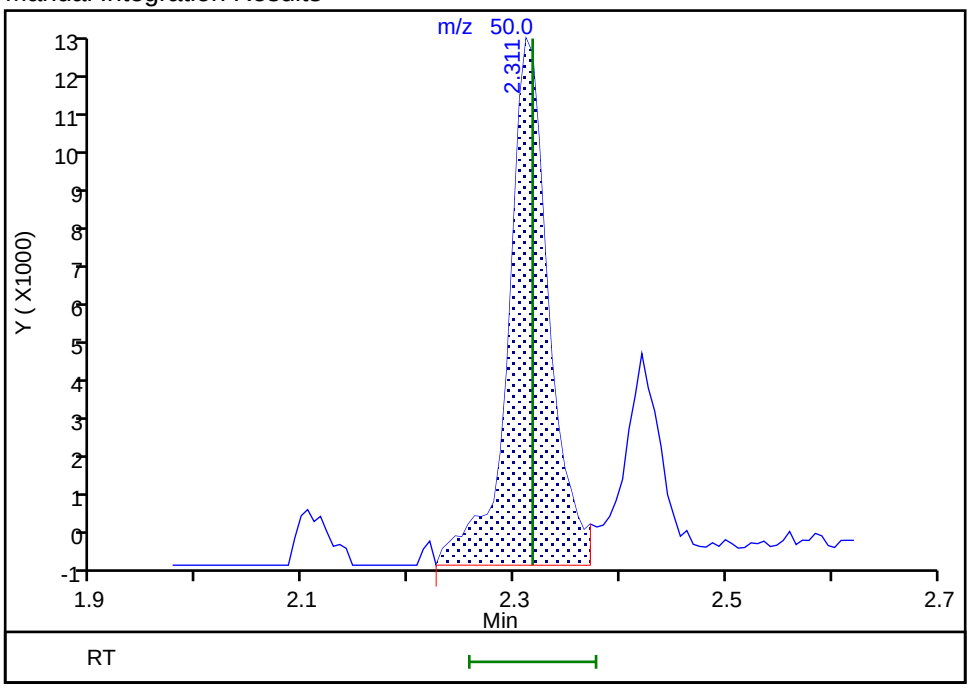
Processing Integration Results

RT: 2.31
Area: 29687
Amount: 5.142849
Amount Units: ug/kg



Manual Integration Results

RT: 2.31
Area: 32749
Amount: 5.662622
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:56:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

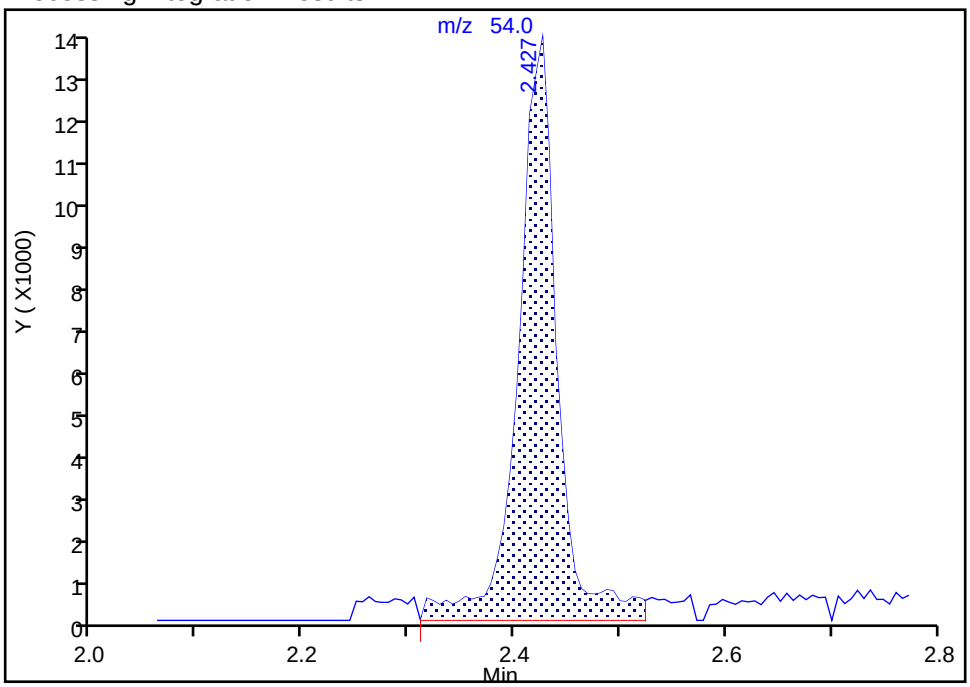
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

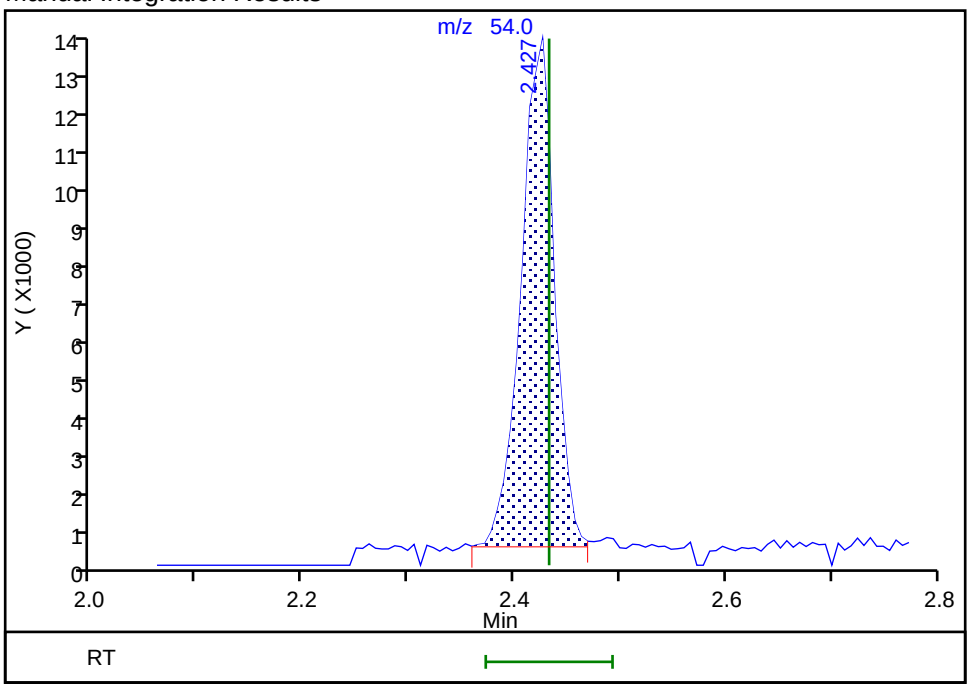
Processing Integration Results

RT: 2.43
Area: 33657
Amount: 6.206205
Amount Units: ug/kg



Manual Integration Results

RT: 2.43
Area: 27599
Amount: 5.290466
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:58:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

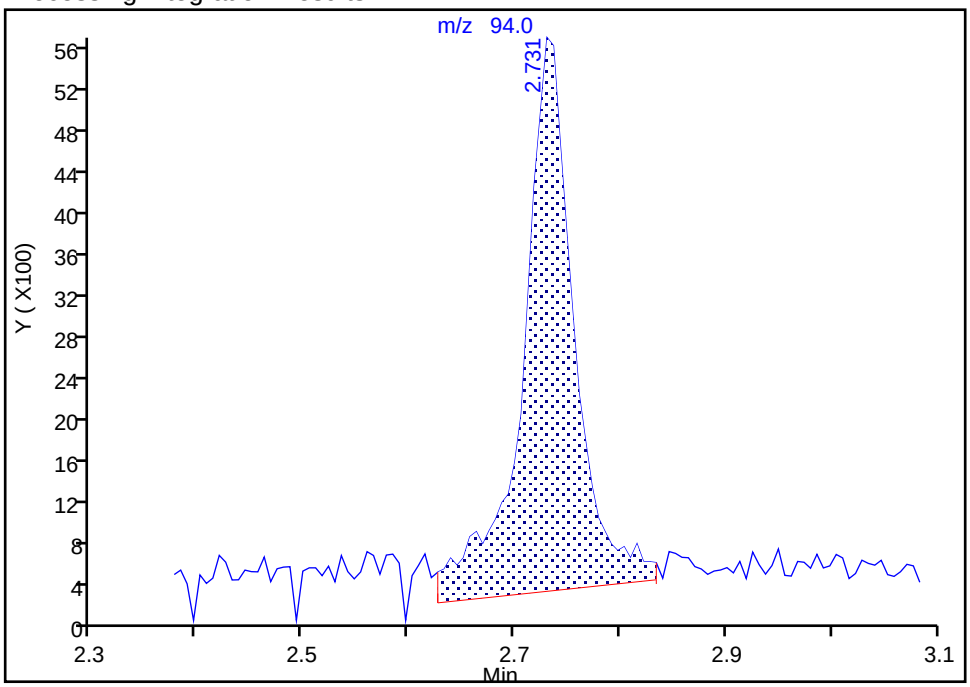
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

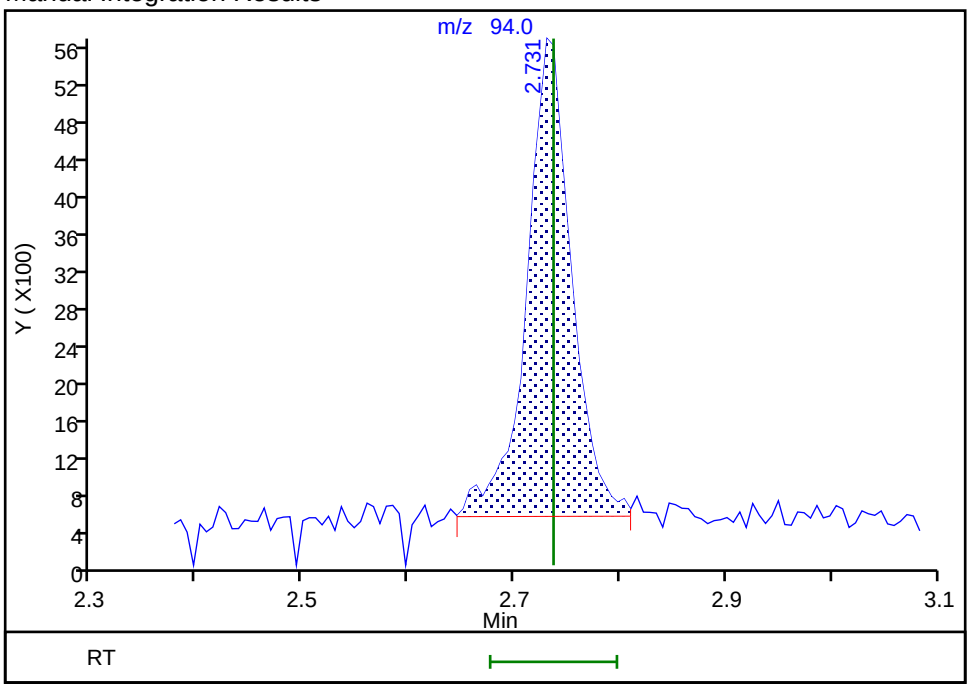
Processing Integration Results

RT: 2.73
Area: 18333
Amount: 5.820950
Amount Units: ug/kg



Manual Integration Results

RT: 2.73
Area: 15111
Amount: 4.942388
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:58:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

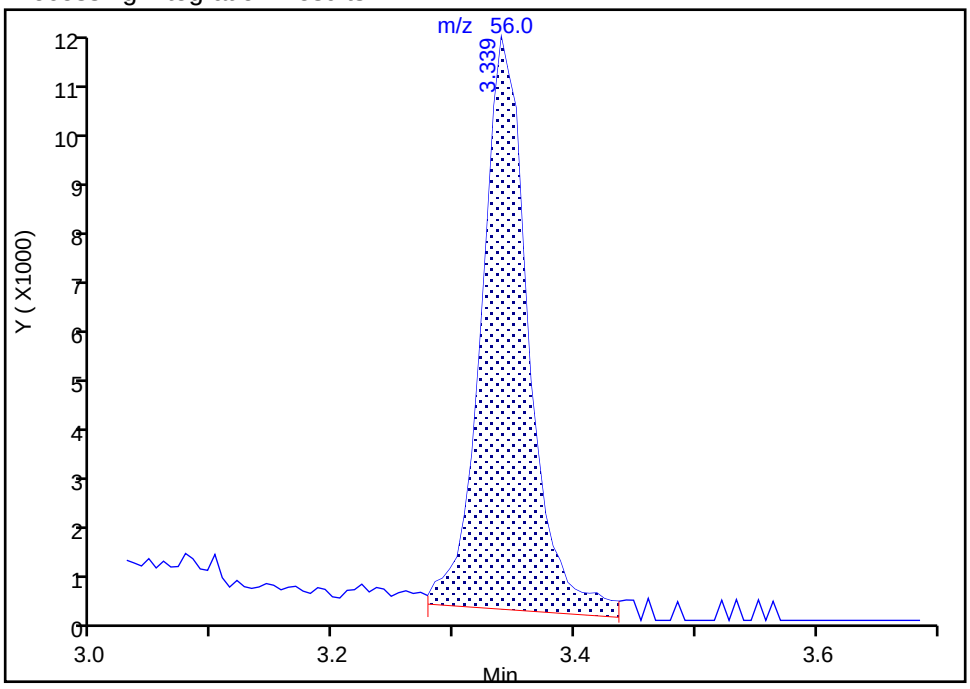
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

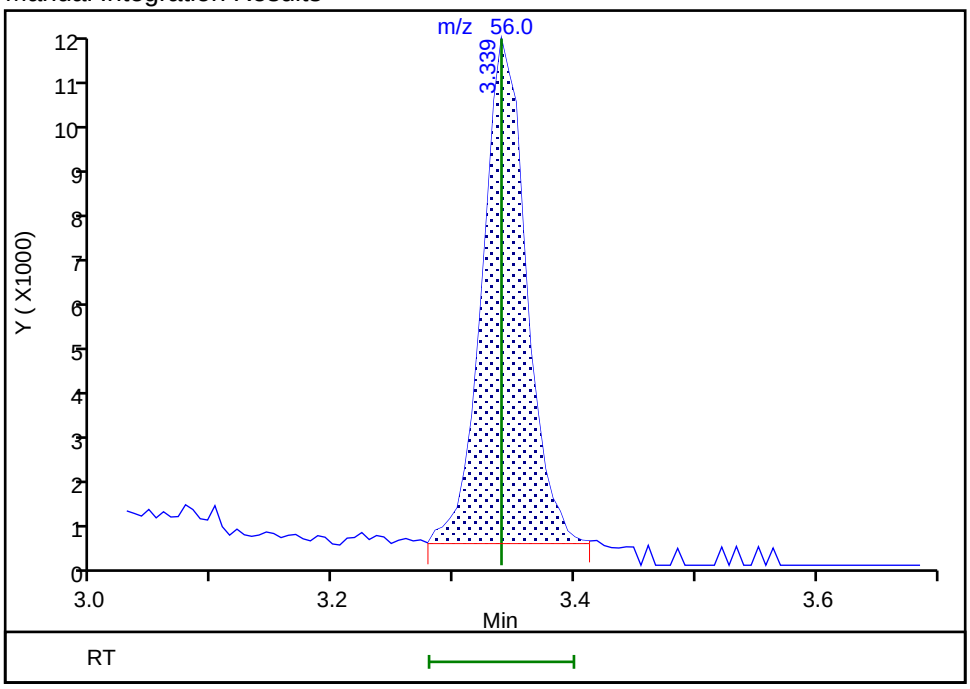
Processing Integration Results

RT: 3.34
Area: 29798
Amount: 26.584772
Amount Units: ug/kg



Manual Integration Results

RT: 3.34
Area: 27158
Amount: 24.662655
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:59:10
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jan-2019 12:09:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0077924-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:53 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:02:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.730	0.000	99	217446	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	431406	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.870	-0.006	95	411352	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	249518	50.0	49.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	160056	50.0	49.4	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1017277	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.782	9.776	0.006	93	340409	50.0	49.7	
10 Dichlorodifluoromethane	85	2.116	2.110	0.006	99	51394	10.0	9.95	
12 Chloromethane	50	2.323	2.317	0.006	99	61741	10.0	10.7	
13 Vinyl chloride	62	2.420	2.414	0.006	97	53600	10.0	10.2	M
151 Butadiene	54	2.433	2.433	0.000	90	54375	10.0	10.5	M
14 Bromomethane	94	2.749	2.737	0.012	90	30626	10.0	10.1	
15 Chloroethane	64	2.804	2.798	0.006	99	29472	10.0	10.1	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	68676	10.0	10.3	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	70923	10.0	10.0	
18 Ethyl ether	59	3.193	3.193	0.000	92	57736	10.0	9.87	
20 Acrolein	56	3.345	3.339	0.006	100	53280	50.0	48.6	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	92	47451	10.0	10.1	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	50435	10.0	10.1	
23 Acetone	43	3.461	3.455	0.006	100	113985	50.0	47.9	
25 Iodomethane	142	3.582	3.582	0.000	97	86298	10.0	10.2	
26 Carbon disulfide	76	3.643	3.643	0.000	99	173051	10.0	10.3	
27 Methyl acetate	43	3.692	3.686	0.006	99	126992	20.0	19.4	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	94	107826	10.0	10.2	
30 Methylene Chloride	84	3.808	3.808	0.000	96	71245	10.0	10.7	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	99	79912	100.0	92.8	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	183110	10.0	9.94	
33 Acrylonitrile	53	4.002	4.002	0.000	99	269684	100.0	99.3	
34 trans-1,2-Dichloroethene	96	4.014	4.008	0.006	97	57622	10.0	9.82	
35 Hexane	57	4.160	4.160	0.000	93	122516	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	264175	20.0	20.1	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	108900	10.0	10.1	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	191684	50.0	48.8	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	94	66892	10.0	9.94	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	60	83583	10.0	10.1	
48 Chlorobromomethane	128	5.012	5.006	0.006	95	31329	10.0	9.76	
49 Tetrahydrofuran	42	5.036	5.036	0.000	70	51400	20.0	19.4	
50 Chloroform	83	5.042	5.043	-0.001	94	100884	10.0	10.1	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	79422	10.0	9.90	
52 Cyclohexane	56	5.249	5.243	0.006	91	108589	10.0	9.98	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	85903	10.0	10.1	
55 Carbon tetrachloride	117	5.347	5.341	0.006	92	72138	10.0	10.0	
53 Isobutyl alcohol	43	5.347	5.347	0.000	94	100797	250.0	244.8	
57 Benzene	78	5.517	5.517	0.000	95	250920	10.0	10.1	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	81792	10.0	10.0	
59 n-Heptane	43	5.620	5.620	0.000	94	118894	10.0	10.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	61670	10.0	9.96	
64 Methylcyclohexane	83	6.198	6.198	0.000	89	112380	10.0	10.0	
65 1,2-Dichloropropane	63	6.253	6.259	-0.006	95	65766	10.0	10.0	
66 1,4-Dioxane	88	6.363	6.357	0.006	95	14336	200.0	208.1	M
67 Dibromomethane	93	6.381	6.387	-0.006	92	36847	10.0	9.82	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	75626	10.0	9.80	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	45250	10.0	9.72	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	95	102485	10.0	9.81	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	364109	50.0	50.9	
74 Toluene	92	7.190	7.190	0.000	98	157587	10.0	10.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	95	95702	10.0	9.85	
75 Ethyl methacrylate	69	7.403	7.403	0.000	90	87843	10.0	9.81	
79 1,1,2-Trichloroethane	83	7.585	7.592	-0.007	92	46279	10.0	9.85	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	70070	10.0	10.1	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	102994	10.0	10.1	
80 2-Hexanone	43	7.774	7.774	0.000	96	281507	50.0	49.5	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	57087	10.0	9.59	
84 Ethylene Dibromide	107	8.145	8.145	0.000	97	57106	10.0	9.79	
87 Chlorobenzene	112	8.607	8.608	-0.001	95	176456	10.0	9.99	
88 Ethylbenzene	91	8.674	8.674	0.000	98	290831	10.0	10.2	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	94	55945	10.0	9.78	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	117549	10.0	10.1	
91 o-Xylene	106	9.222	9.222	0.000	96	110554	10.0	10.1	
92 Styrene	104	9.240	9.240	0.000	96	197450	10.0	10.0	
95 Bromoform	173	9.496	9.496	0.000	97	38626	10.0	9.35	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	281165	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	72293	10.0	10.0	
101 Bromobenzene	156	9.952	9.946	0.006	95	77989	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	72	24689	10.0	9.58	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	84	22572	10.0	9.70	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	335825	10.0	10.4	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	69356	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	232820	10.0	10.2	
105 4-Chlorotoluene	126	10.207	10.214	-0.007	97	73927	10.0	10.0	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	55085	10.0	10.1	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	94	238901	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	303412	10.0	10.4	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	263690	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	97	141992	10.0	10.1	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	145312	10.0	10.1	
115 n-Butylbenzene	91	11.144	11.150	-0.006	98	229539	10.0	10.3	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	130361	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	87	13926	10.0	9.70	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	89026	10.0	10.1	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	51645	10.0	10.6	
121 Naphthalene	128	12.811	12.811	0.000	97	227133	10.0	9.98	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	82875	10.0	10.1	
S 125 1,2-Dichloroethene, Total	1				0			19.8	
S 126 1,3-Dichloropropene, Total	1				0			19.7	
S 123 Total BTEX	1				0			50.5	
S 124 Xylenes, Total	1				0			20.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 10.00	Units: uL	
GAS CORP mix_00321	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

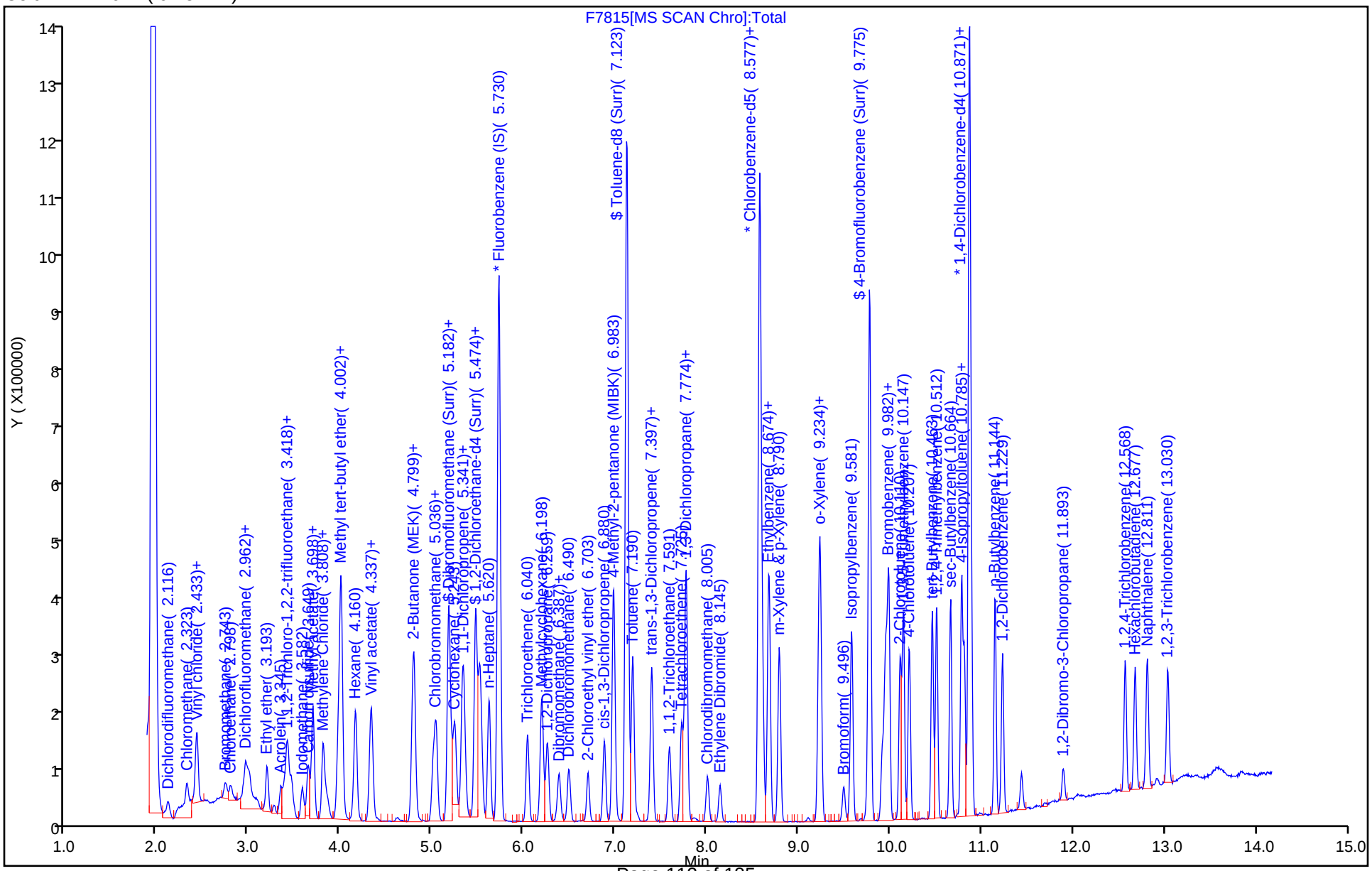
Report Date: 14-Jan-2019 10:30:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D

Injection Date:	11-Jan-2019 12:09:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

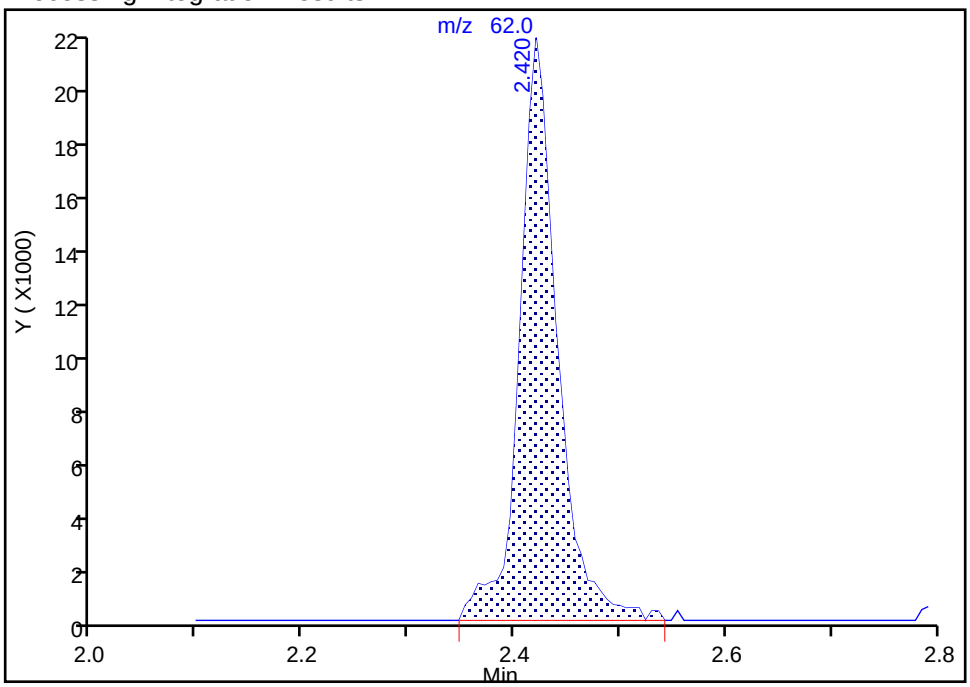
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

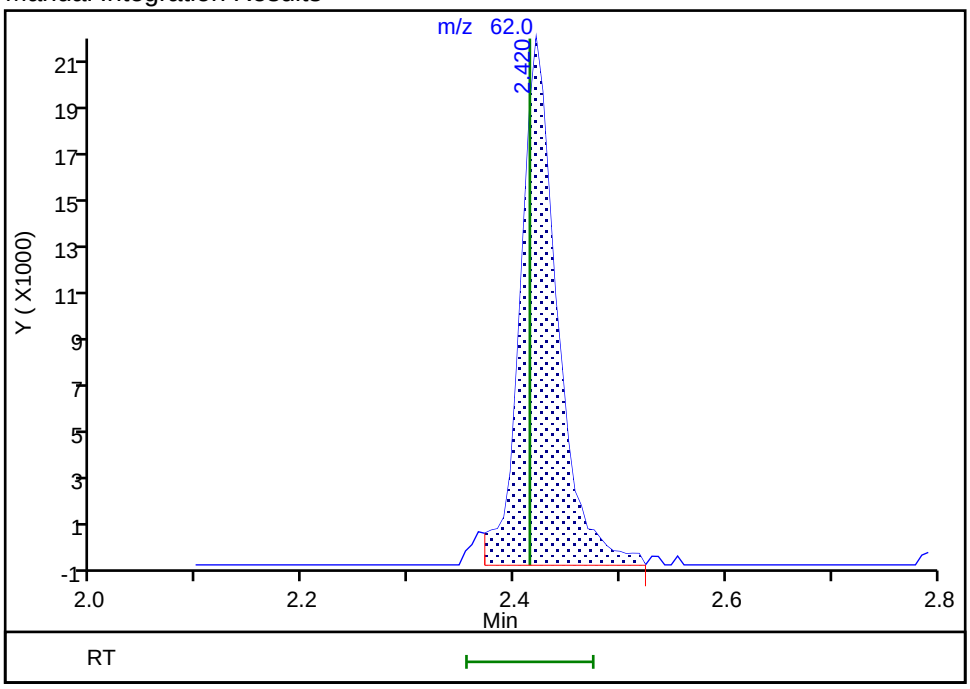
Processing Integration Results

RT: 2.42
Area: 54743
Amount: 10.337874
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 53600
Amount: 10.242950
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:00:51
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

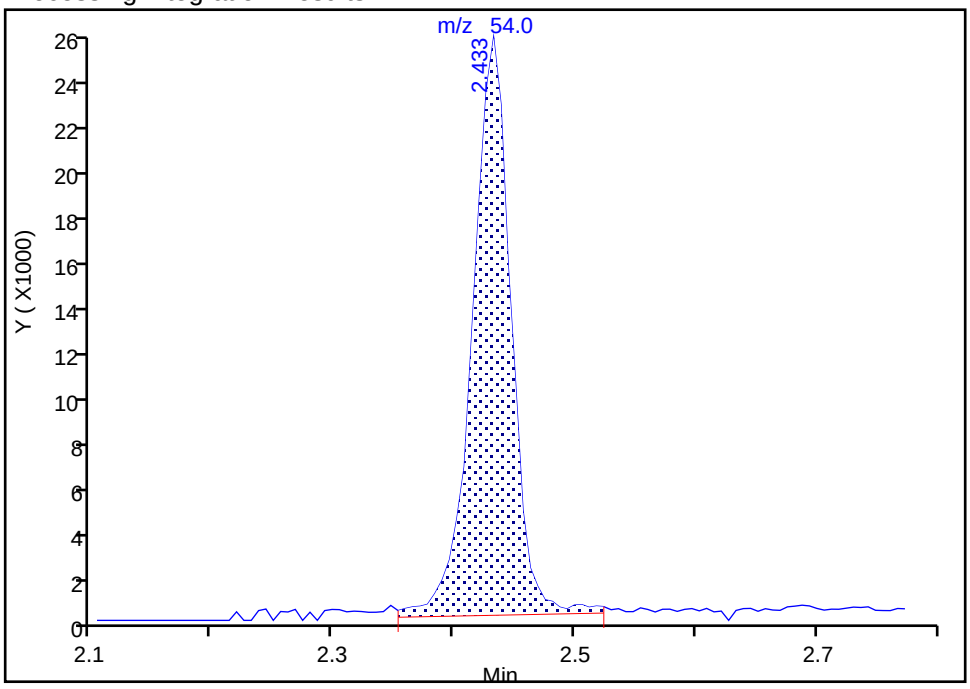
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

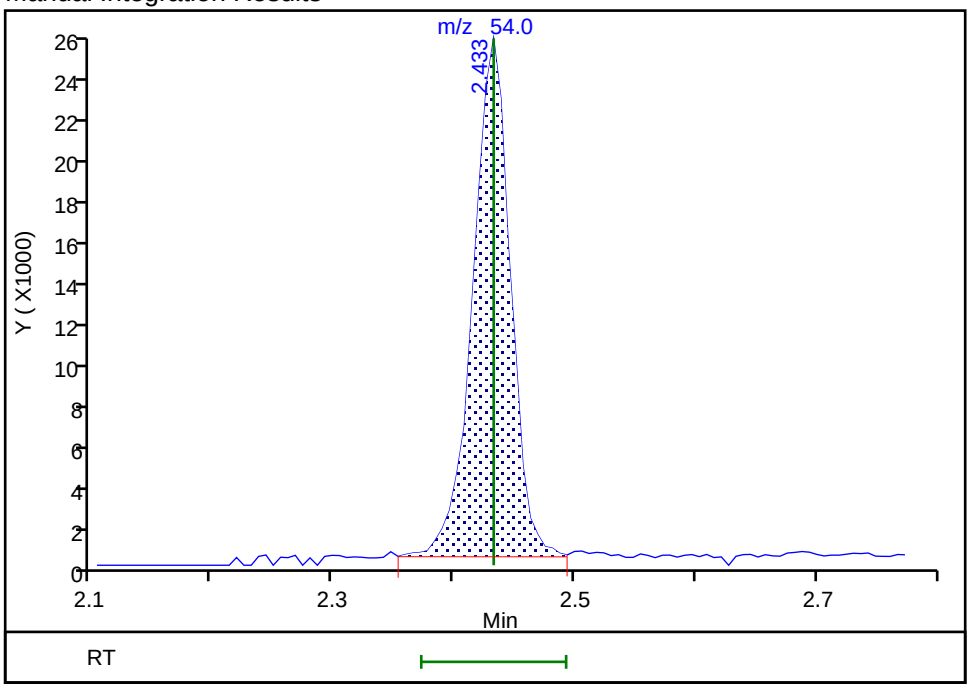
Processing Integration Results

RT: 2.43
Area: 56697
Amount: 10.838740
Amount Units: ug/kg



Manual Integration Results

RT: 2.43
Area: 54375
Amount: 10.461182
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

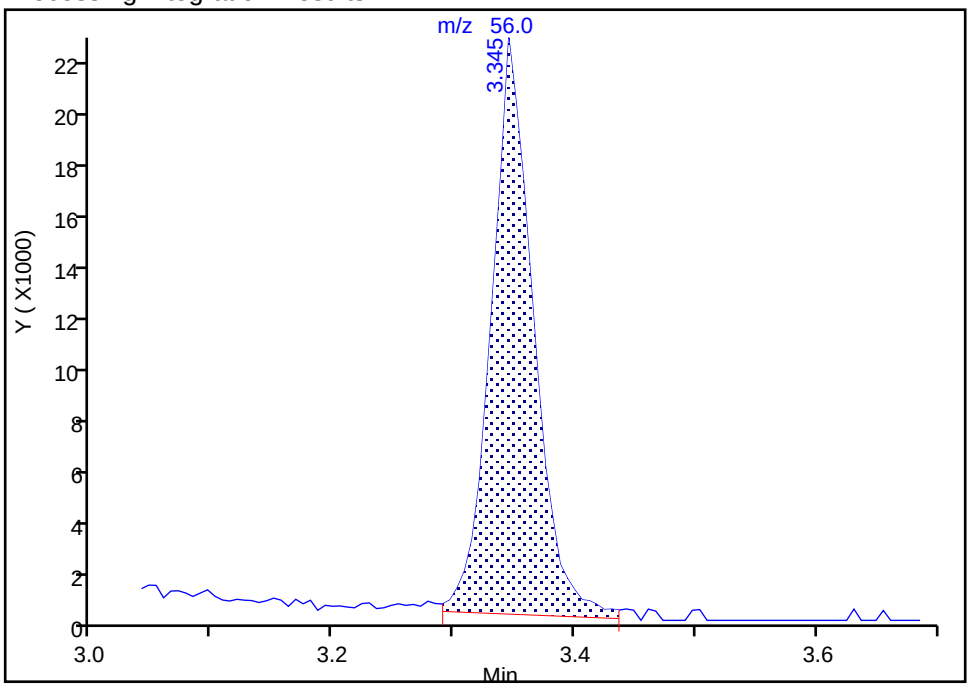
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

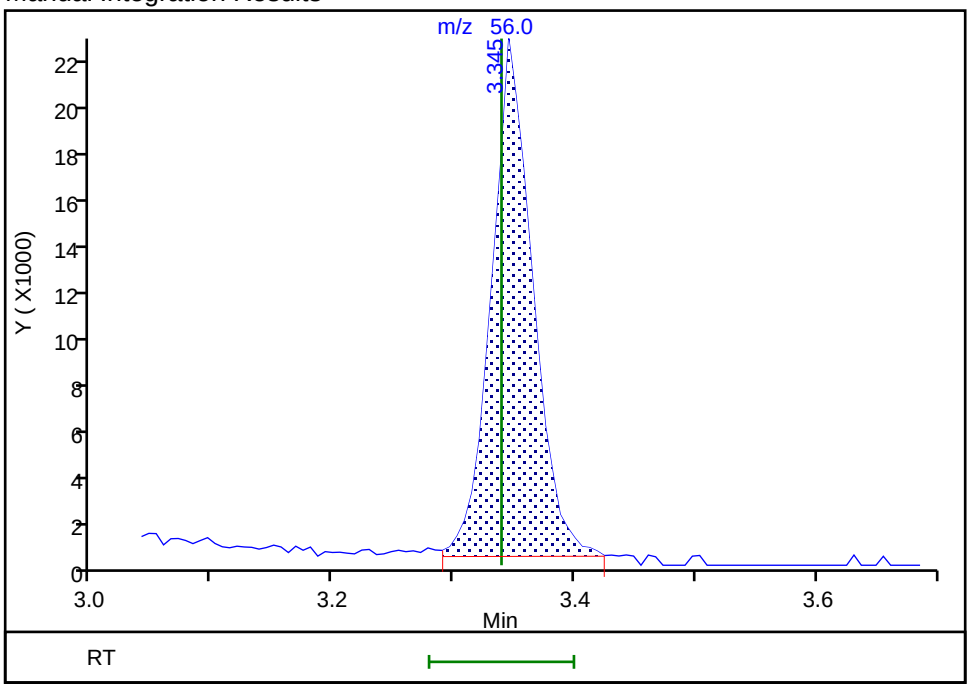
Processing Integration Results

RT: 3.35
Area: 54885
Amount: 49.815591
Amount Units: ug/kg



Manual Integration Results

RT: 3.35
Area: 53280
Amount: 48.560954
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

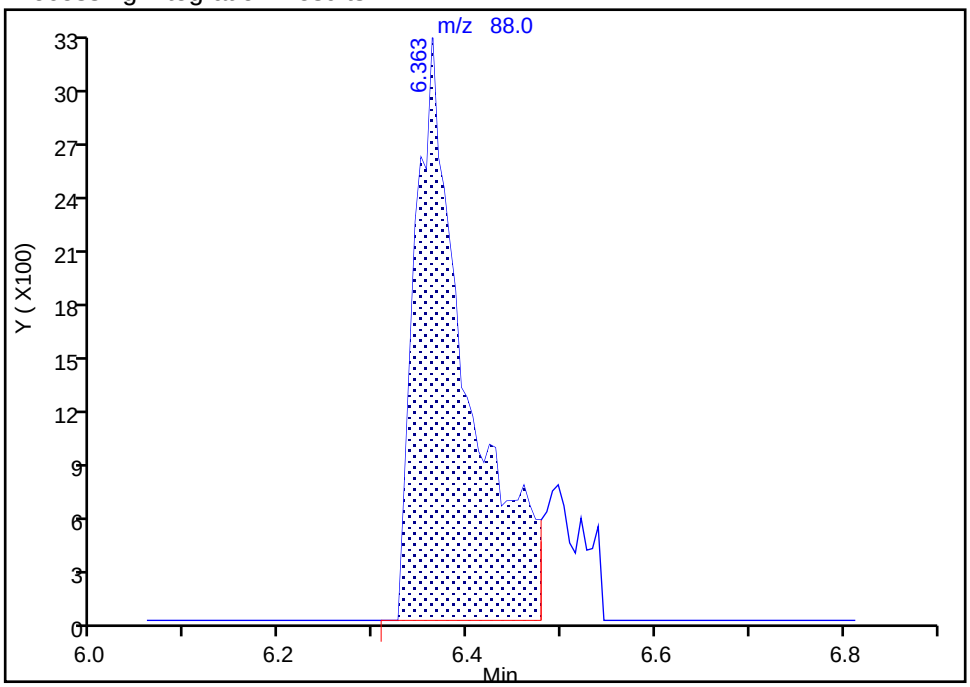
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

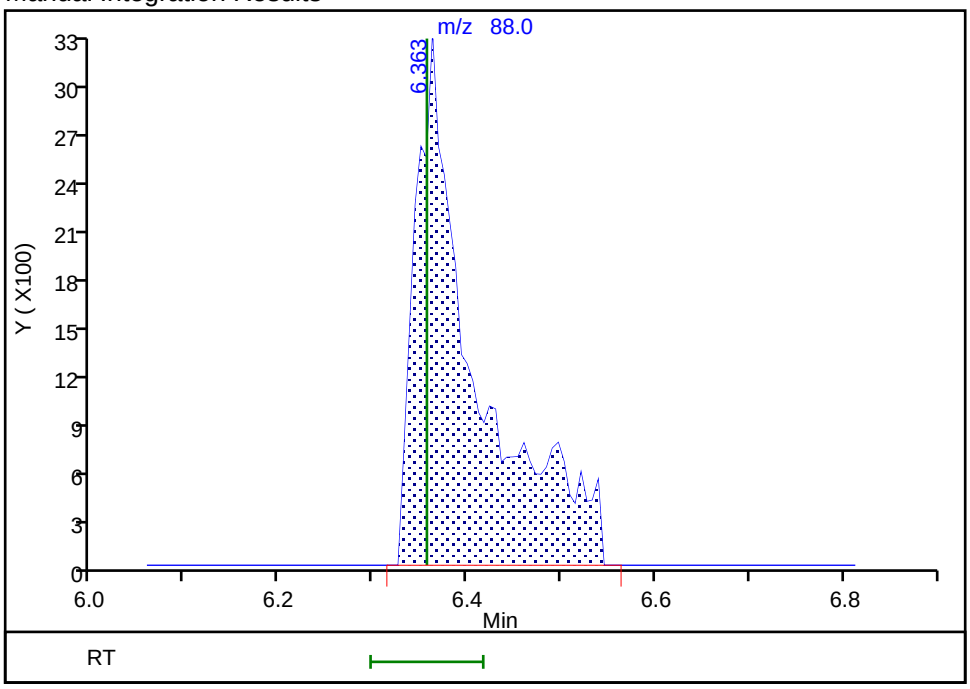
Processing Integration Results

RT: 6.36
Area: 12377
Amount: 192.3715
Amount Units: ug/kg



Manual Integration Results

RT: 6.36
Area: 14336
Amount: 208.0977
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jan-2019 12:35:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0077924-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:05 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:10:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.730	0.000	99	217261	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	435871	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.870	0.001	95	420392	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	94	251435	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	161755	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	7.129	7.123	0.006	93	1030021	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.782	9.776	0.006	92	345511	50.0	50.0	
10 Dichlorodifluoromethane	85	2.122	2.110	0.012	99	102968	20.0	20.0	
12 Chloromethane	50	2.323	2.317	0.006	99	113047	20.0	19.6	
13 Vinyl chloride	62	2.421	2.414	0.007	98	102153	20.0	19.5	M
151 Butadiene	54	2.433	2.433	0.000	90	102164	20.0	19.7	
14 Bromomethane	94	2.743	2.737	0.006	89	60127	20.0	19.8	
15 Chloroethane	64	2.798	2.798	0.000	100	55685	20.0	19.1	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	129722	20.0	19.4	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	138688	20.0	19.7	
18 Ethyl ether	59	3.199	3.193	0.006	93	115375	20.0	19.7	
20 Acrolein	56	3.345	3.339	0.006	100	108739	100.0	99.2	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	93	94703	20.0	20.2	
22 1,1-Dichloroethene	96	3.424	3.418	0.006	97	98498	20.0	19.8	
23 Acetone	43	3.461	3.455	0.006	100	235584	100.0	99.0	
25 Iodomethane	142	3.582	3.582	0.000	98	168217	20.0	19.9	
26 Carbon disulfide	76	3.649	3.643	0.006	99	336257	20.0	20.0	
27 Methyl acetate	43	3.692	3.686	0.006	98	253458	40.0	38.7	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	95	213871	20.0	20.2	
30 Methylene Chloride	84	3.808	3.808	0.000	96	129667	20.0	19.6	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	100	171991	200.0	199.8	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	369580	20.0	20.1	
33 Acrylonitrile	53	4.002	4.002	0.000	100	542960	200.0	200.2	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	114732	20.0	19.6	
35 Hexane	57	4.167	4.160	0.006	93	229440	20.0	19.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	531768	40.0	40.5	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	214139	20.0	19.8	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	389355	100.0	99.3	
45 cis-1,2-Dichloroethene	96	4.805	4.799	0.006	82	132607	20.0	19.7	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	59	164364	20.0	19.9	
48 Chlorobromomethane	128	5.012	5.006	0.006	96	63452	20.0	19.8	
49 Tetrahydrofuran	42	5.043	5.036	0.007	91	103288	40.0	39.0	
50 Chloroform	83	5.043	5.043	0.000	94	196921	20.0	19.8	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	158400	20.0	19.8	
52 Cyclohexane	56	5.249	5.243	0.006	91	214342	20.0	19.7	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	169533	20.0	19.9	
55 Carbon tetrachloride	117	5.341	5.341	0.000	97	143523	20.0	19.9	
53 Isobutyl alcohol	43	5.353	5.347	0.006	94	212087	500.0	515.5	
57 Benzene	78	5.517	5.517	0.000	95	496262	20.0	20.0	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	161795	20.0	19.8	
59 n-Heptane	43	5.620	5.620	0.000	94	233529	20.0	20.1	
62 Trichloroethene	95	6.040	6.040	0.000	97	121820	20.0	19.7	
64 Methylcyclohexane	83	6.198	6.198	0.000	91	224012	20.0	20.0	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	97	129249	20.0	19.8	
66 1,4-Dioxane	88	6.357	6.357	0.000	95	28990	400.0	416.5	
67 Dibromomethane	93	6.387	6.387	0.000	94	74378	20.0	19.8	
68 Dichlorobromomethane	83	6.497	6.490	0.007	99	152646	20.0	19.8	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	92574	20.0	19.9	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	208385	20.0	20.0	
73 4-Methyl-2-pentanone (MIBK	43	6.983	6.977	0.006	97	735582	100.0	101.7	
74 Toluene	92	7.190	7.190	0.000	99	315409	20.0	19.8	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	96	195637	20.0	19.9	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	177359	20.0	19.6	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	93313	20.0	19.7	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	138599	20.0	19.8	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	204840	20.0	19.9	
80 2-Hexanone	43	7.774	7.774	0.000	97	581117	100.0	101.1	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	117567	20.0	19.5	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	117149	20.0	19.9	
87 Chlorobenzene	112	8.608	8.608	0.000	95	355559	20.0	19.9	
88 Ethylbenzene	91	8.674	8.674	0.000	98	575117	20.0	20.0	
89 1,1,1,2-Tetrachloroethane	131	8.681	8.681	0.000	95	113673	20.0	19.7	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	234147	20.0	19.9	
91 o-Xylene	106	9.228	9.222	0.006	96	219225	20.0	19.8	
92 Styrene	104	9.240	9.240	0.000	95	395064	20.0	19.8	
95 Bromoform	173	9.496	9.496	0.000	98	81082	20.0	19.4	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	551445	20.0	20.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	146480	20.0	19.8	
101 Bromobenzene	156	9.946	9.946	0.000	94	156906	20.0	19.9	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	74	52348	20.0	19.9	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	82	46571	20.0	19.6	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	666044	20.0	20.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	139633	20.0	20.0	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	467744	20.0	20.1	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	148820	20.0	19.7	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	111258	20.0	19.9	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	475645	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	602670	20.0	20.2	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	97	525455	20.0	20.2	
111 1,3-Dichlorobenzene	146	10.816	10.810	0.006	98	287106	20.0	20.0	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	293736	20.0	19.9	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	457396	20.0	20.0	
116 1,2-Dichlorobenzene	146	11.230	11.230	0.000	98	265950	20.0	20.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	88	28675	20.0	19.5	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	179145	20.0	19.9	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	99950	20.0	20.0	
121 Naphthalene	128	12.811	12.811	0.000	97	465488	20.0	20.0	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	168137	20.0	20.0	
S 125 1,2-Dichloroethene, Total	1				0			39.3	
S 126 1,3-Dichloropropene, Total	1				0			39.9	
S 123 Total BTEX	1				0			99.4	
S 124 Xylenes, Total	1				0			39.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 10.00	Units: uL	
GAS CORP mix_00321	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

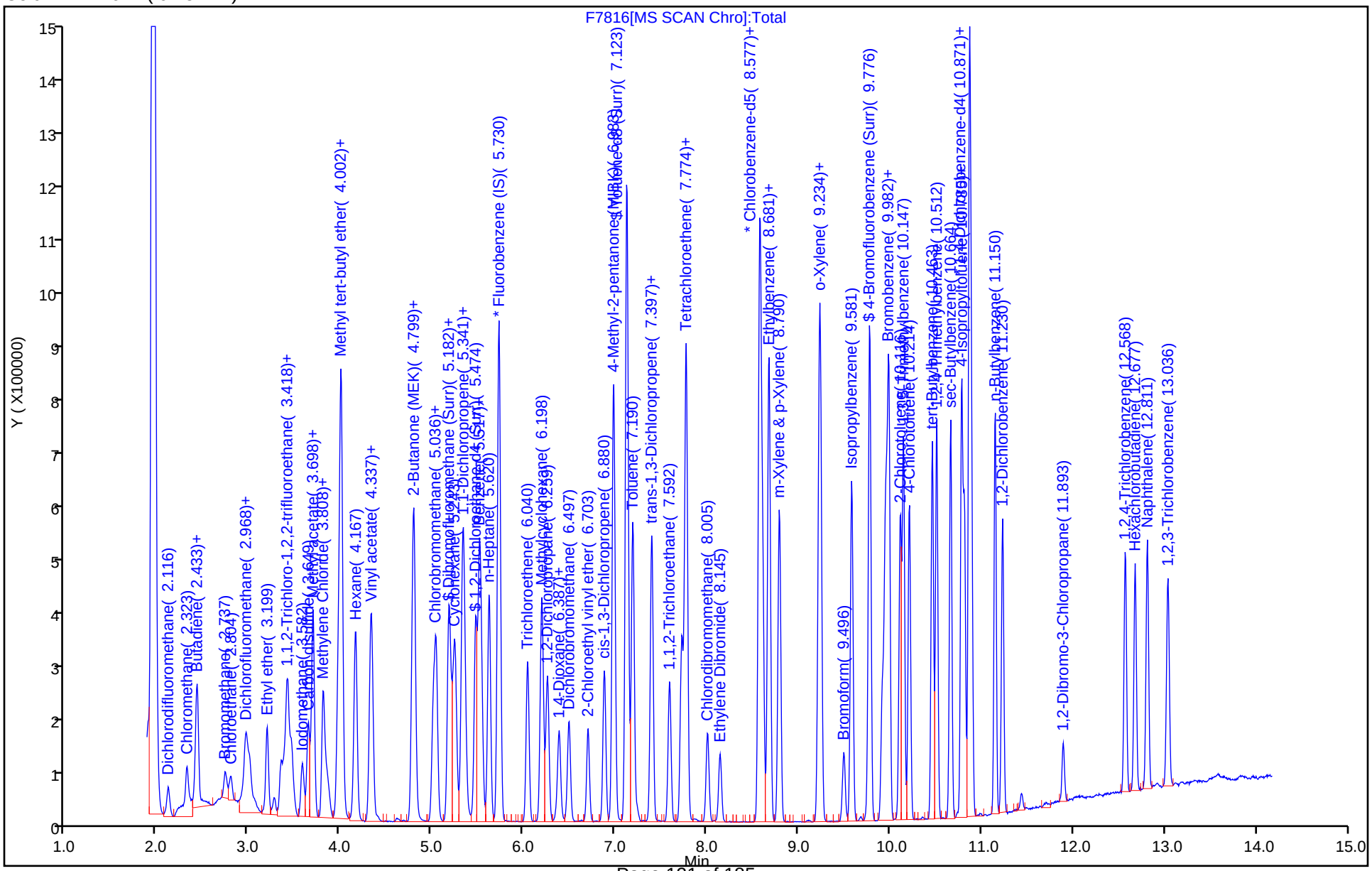
Report Date: 14-Jan-2019 10:31:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D

Injection Date:	11-Jan-2019 12:35:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

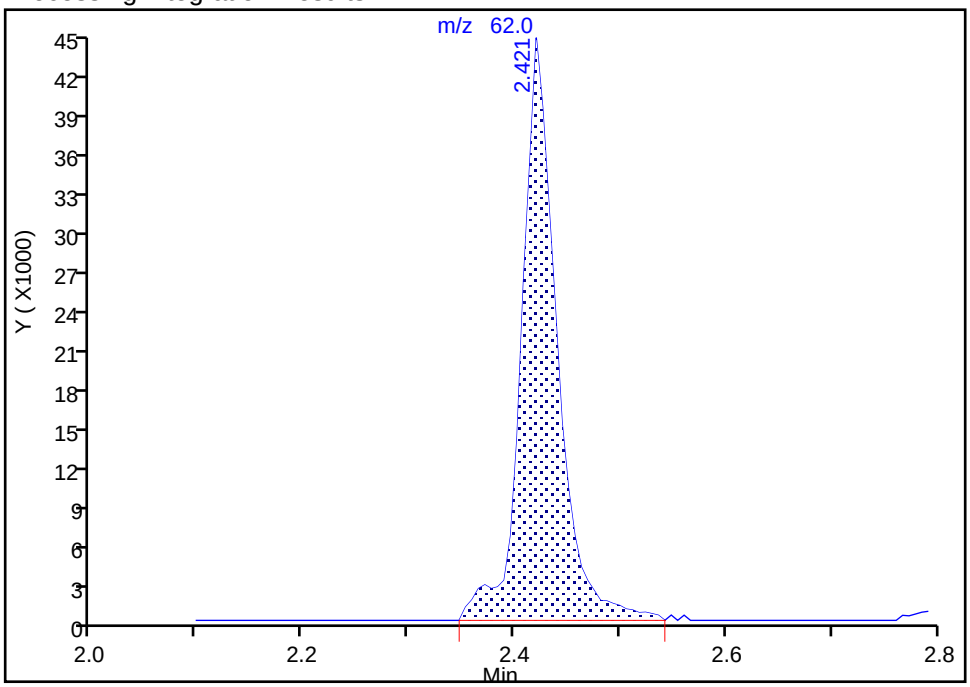
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D
Injection Date: 11-Jan-2019 12:35:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

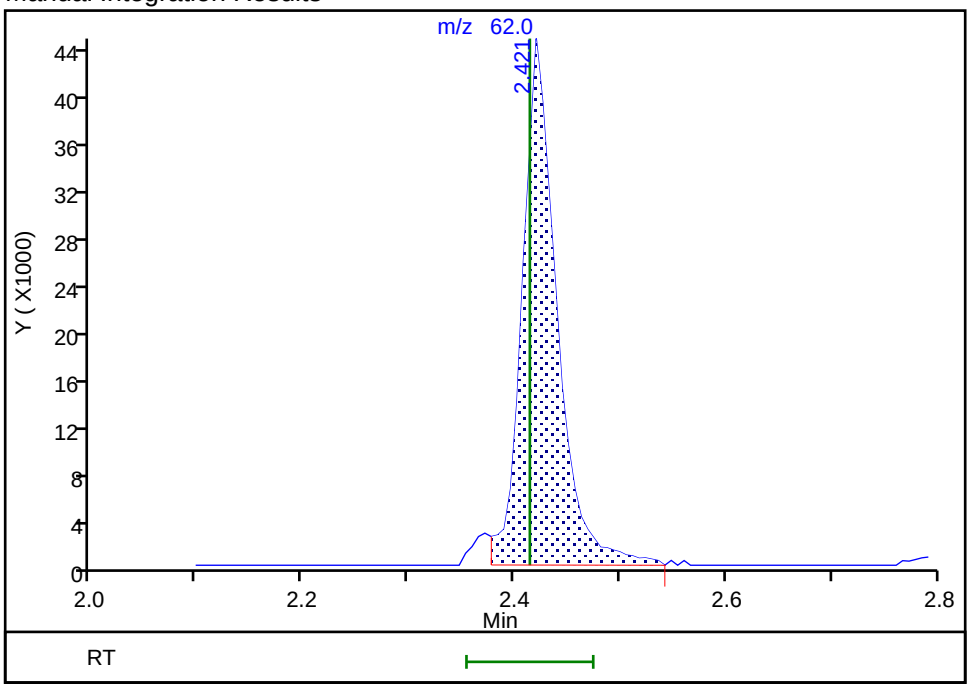
Processing Integration Results

RT: 2.42
Area: 105111
Amount: 19.927907
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 102153
Amount: 19.538043
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:10:38
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7817.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 11-Jan-2019 13:01:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0077924-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:17 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:47:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	222636	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	86	451187	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.871	0.000	94	444175	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	258922	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	166014	50.0	50.1	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1066872	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	92	362603	50.0	50.7	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	261704	50.0	49.5	
12 Chloromethane	50	2.317	2.317	0.000	99	286233	50.0	48.5	
13 Vinyl chloride	62	2.414	2.414	0.000	98	260555	50.0	48.6	
151 Butadiene	54	2.433	2.433	0.000	90	264396	50.0	49.7	
14 Bromomethane	94	2.737	2.737	0.000	90	155859	50.0	50.0	
15 Chloroethane	64	2.798	2.798	0.000	99	141782	50.0	47.6	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	330266	50.0	48.3	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	353717	50.0	48.9	
18 Ethyl ether	59	3.193	3.193	0.000	92	299212	50.0	50.0	
20 Acrolein	56	3.339	3.339	0.000	100	277420	250.0	247.0	
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	92	239663	50.0	49.9	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	248935	50.0	48.7	
23 Acetone	43	3.455	3.455	0.000	100	596308	250.0	244.6	
25 Iodomethane	142	3.582	3.582	0.000	98	434988	50.0	50.2	
26 Carbon disulfide	76	3.643	3.643	0.000	99	837284	50.0	48.6	
27 Methyl acetate	43	3.686	3.686	0.000	98	665832	100.0	99.1	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	92	544152	50.0	50.1	
30 Methylene Chloride	84	3.808	3.808	0.000	96	311909	50.0	45.9	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	100	428503	500.0	485.9	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	954192	50.0	50.6	
33 Acrylonitrile	53	4.002	4.002	0.000	99	1384207	500.0	498.0	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	303407	50.0	50.5	
35 Hexane	57	4.160	4.160	0.000	93	568694	50.0	47.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	1365894	100.0	101.4	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	559681	50.0	50.6	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	100	1010438	250.0	251.5	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	346501	50.0	50.3	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	59	417371	50.0	49.3	
48 Chlorobromomethane	128	5.006	5.006	0.000	97	166102	50.0	50.5	
49 Tetrahydrofuran	42	5.036	5.036	0.000	92	264188	100.0	97.3	
50 Chloroform	83	5.043	5.043	0.000	94	514718	50.0	50.5	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	412830	50.0	50.2	
52 Cyclohexane	56	5.243	5.243	0.000	91	552117	50.0	49.6	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	96	443231	50.0	50.8	
55 Carbon tetrachloride	117	5.341	5.341	0.000	95	370099	50.0	50.2	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	549788	1250.0	1304.0	
57 Benzene	78	5.517	5.517	0.000	96	1291501	50.0	50.7	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	420343	50.0	50.2	
59 n-Heptane	43	5.620	5.620	0.000	94	594798	50.0	50.0	
62 Trichloroethene	95	6.040	6.040	0.000	97	321945	50.0	50.8	
64 Methylcyclohexane	83	6.198	6.198	0.000	90	577488	50.0	50.4	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	98	344858	50.0	51.4	
66 1,4-Dioxane	88	6.357	6.357	0.000	95	74979	1000.0	1040.7	
67 Dibromomethane	93	6.387	6.387	0.000	94	194688	50.0	50.7	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	409488	50.0	51.8	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	250777	50.0	52.6	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	552594	50.0	51.7	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	96	1872880	250.0	250.2	
74 Toluene	92	7.190	7.190	0.000	99	823455	50.0	50.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	96	522232	50.0	51.4	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	475944	50.0	50.8	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	248031	50.0	50.5	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	366384	50.0	50.5	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	540740	50.0	50.7	
80 2-Hexanone	43	7.774	7.774	0.000	95	1506182	250.0	253.0	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	328641	50.0	52.8	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	313415	50.0	51.4	
87 Chlorobenzene	112	8.608	8.608	0.000	95	936705	50.0	50.7	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1513322	50.0	50.9	
89 1,1,1,2-Tetrachloroethane	131	8.681	8.681	0.000	95	305822	50.0	51.1	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	617840	50.0	50.6	
91 o-Xylene	106	9.222	9.222	0.000	97	576413	50.0	50.3	
92 Styrene	104	9.240	9.240	0.000	95	1056122	50.0	51.3	
95 Bromoform	173	9.496	9.496	0.000	98	231828	50.0	53.7	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	1428678	50.0	49.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	96	387774	50.0	49.6	
101 Bromobenzene	156	9.946	9.946	0.000	95	413403	50.0	49.7	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	73	140236	50.0	50.4	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	82	124259	50.0	49.4	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1749157	50.0	50.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	367013	50.0	49.7	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	1218417	50.0	49.7	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	402384	50.0	50.5	
106 tert-Butylbenzene	134	10.463	10.463	0.000	93	288805	50.0	49.0	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	1255418	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	1549374	50.0	49.2	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	97	1369409	50.0	49.9	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	761102	50.0	50.1	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	780195	50.0	50.1	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	1208037	50.0	50.0	
116 1,2-Dichlorobenzene	146	11.230	11.230	0.000	98	703020	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	88	74229	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	463811	50.0	48.7	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	259458	50.0	49.1	
121 Naphthalene	128	12.811	12.811	0.000	97	1212614	50.0	49.3	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	431254	50.0	48.6	

Reagents:

8260 CORP mix_00144	Amount Added: 25.00	Units: uL	
GAS CORP mix_00321	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

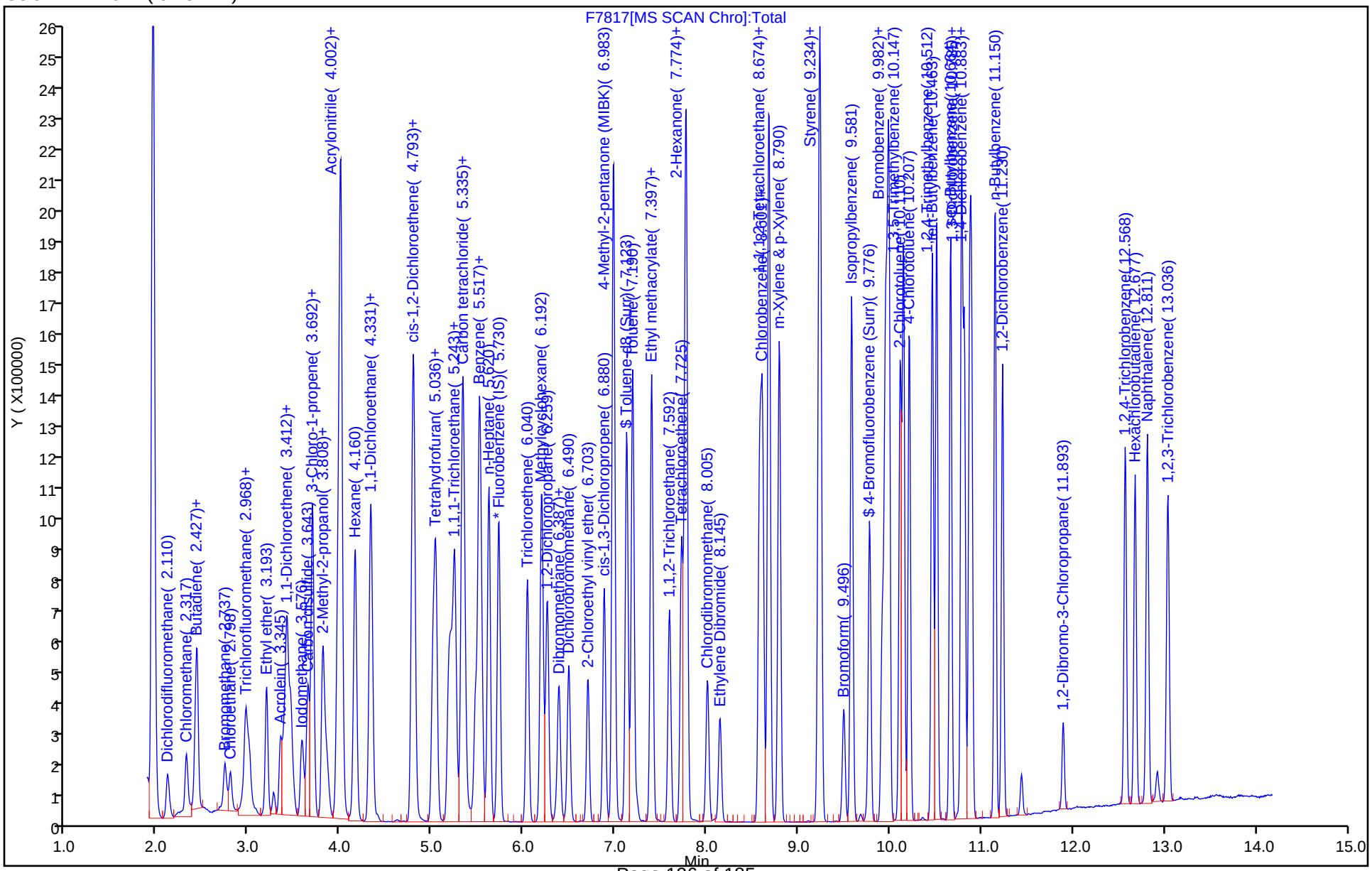
Report Date: 14-Jan-2019 10:31:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7817.D

Injection Date:	11-Jan-2019 13:01:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7818.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jan-2019 13:27:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0077924-011
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:26 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:19:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	218726	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	436256	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.871	0.000	95	428250	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	94	253552	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	164458	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1026794	50.0	49.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	92	347746	50.0	50.2	
10 Dichlorodifluoromethane	85	2.116	2.110	0.006	99	506752	100.0	97.5	
12 Chloromethane	50	2.323	2.317	0.006	99	548209	100.0	94.6	
13 Vinyl chloride	62	2.420	2.414	0.006	98	499413	100.0	94.9	
151 Butadiene	54	2.439	2.433	0.006	90	487158	100.0	93.2	
14 Bromomethane	94	2.743	2.737	0.006	90	308009	100.0	100.5	
15 Chloroethane	64	2.798	2.798	0.000	99	276074	100.0	94.3	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	644068	100.0	95.9	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	682933	100.0	96.2	
18 Ethyl ether	59	3.193	3.193	0.000	92	583977	100.0	99.3	
20 Acrolein	56	3.345	3.339	0.006	100	568654	500.0	515.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	92	469094	100.0	99.5	
22 1,1-Dichloroethene	96	3.424	3.418	0.006	97	485306	100.0	96.7	
23 Acetone	43	3.461	3.455	0.006	100	1209647	500.0	505.1	
25 Iodomethane	142	3.582	3.582	0.000	98	849657	100.0	99.8	
26 Carbon disulfide	76	3.643	3.643	0.000	99	1662855	100.0	98.1	
27 Methyl acetate	43	3.692	3.686	0.006	98	1317143	200.0	199.6	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	94	1034948	100.0	97.0	
30 Methylene Chloride	84	3.808	3.808	0.000	95	601375	100.0	90.1	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	100	901411	1000.0	1040.4	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	1874061	100.0	101.1	
33 Acrylonitrile	53	4.002	4.002	0.000	99	2750873	1000.0	1007.3	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	585542	100.0	99.2	
35 Hexane	57	4.160	4.160	0.000	92	1066250	100.0	91.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	2645052	200.0	200.0	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	1070121	100.0	98.5	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	2019424	500.0	511.6	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	669229	100.0	98.8	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	89	801562	100.0	96.4	
48 Chlorobromomethane	128	5.012	5.006	0.006	96	327928	100.0	101.5	
49 Tetrahydrofuran	42	5.036	5.036	0.000	91	530080	200.0	198.6	
50 Chloroform	83	5.042	5.043	-0.001	94	991751	100.0	99.0	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	795445	100.0	98.5	
52 Cyclohexane	56	5.249	5.243	0.006	91	1062399	100.0	97.1	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	845465	100.0	98.6	
55 Carbon tetrachloride	117	5.341	5.341	0.000	96	731452	100.0	101.0	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	1138742	2500.0	2749.1	
57 Benzene	78	5.517	5.517	0.000	97	2444218	100.0	97.7	
58 1,2-Dichloroethane	62	5.541	5.535	0.006	97	803541	100.0	97.8	
59 n-Heptane	43	5.620	5.620	0.000	93	1137249	100.0	97.3	
62 Trichloroethene	95	6.040	6.040	0.000	97	612811	100.0	98.4	
64 Methylcyclohexane	83	6.198	6.198	0.000	91	1108516	100.0	98.5	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	98	662052	100.0	100.5	
66 1,4-Dioxane	88	6.363	6.357	0.006	95	150244	2000.0	2156.7	
67 Dibromomethane	93	6.387	6.387	0.000	94	381419	100.0	101.1	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	793847	100.0	102.2	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	488664	100.0	104.3	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	1058495	100.0	100.7	
73 4-Methyl-2-pentanone (MIBK	43	6.983	6.977	0.006	95	3628242	500.0	501.3	
74 Toluene	92	7.190	7.190	0.000	99	1544218	100.0	97.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	96	999859	100.0	101.8	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	927874	100.0	102.4	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	478262	100.0	100.7	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	688441	100.0	98.2	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	95	1033474	100.0	100.3	
80 2-Hexanone	43	7.774	7.774	0.000	94	2938438	500.0	510.5	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	643734	100.0	106.9	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	607455	100.0	103.0	
87 Chlorobenzene	112	8.607	8.608	-0.001	95	1756025	100.0	98.3	
88 Ethylbenzene	91	8.674	8.674	0.000	98	2776980	100.0	96.5	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	96	598015	100.0	103.3	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	1165600	100.0	98.8	
91 o-Xylene	106	9.228	9.222	0.006	96	1093442	100.0	98.6	
92 Styrene	104	9.240	9.240	0.000	95	1976086	100.0	99.2	
95 Bromoform	173	9.496	9.496	0.000	98	469160	100.0	112.4	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	2666193	100.0	94.9	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	760916	100.0	101.0	
101 Bromobenzene	156	9.946	9.946	0.000	94	791690	100.0	98.7	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	79	278384	100.0	103.8	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	88	246945	100.0	101.9	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	3193840	100.0	95.1	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	700639	100.0	98.5	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	2282732	100.0	96.5	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	760717	100.0	98.9	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	549819	100.0	96.7	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	94	2356324	100.0	97.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	2873863	100.0	94.6	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	96	2559976	100.0	96.7	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	1442892	100.0	98.5	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	97	1477718	100.0	98.5	
115 n-Butylbenzene	91	11.144	11.150	-0.006	96	2246517	100.0	96.4	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	1345862	100.0	99.3	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	89	154342	100.0	103.2	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	911926	100.0	99.3	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	494571	100.0	97.1	
121 Naphthalene	128	12.811	12.811	0.000	97	2428416	100.0	102.5	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	864578	100.0	101.0	
S 125 1,2-Dichloroethene, Total	1				0			198.0	
S 126 1,3-Dichloropropene, Total	1				0			202.5	
S 123 Total BTEX	1				0			488.6	
S 124 Xylenes, Total	1				0			197.4	

Reagents:

8260 CORP mix_00144	Amount Added: 50.00	Units: uL	
GAS CORP mix_00321	Amount Added: 50.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

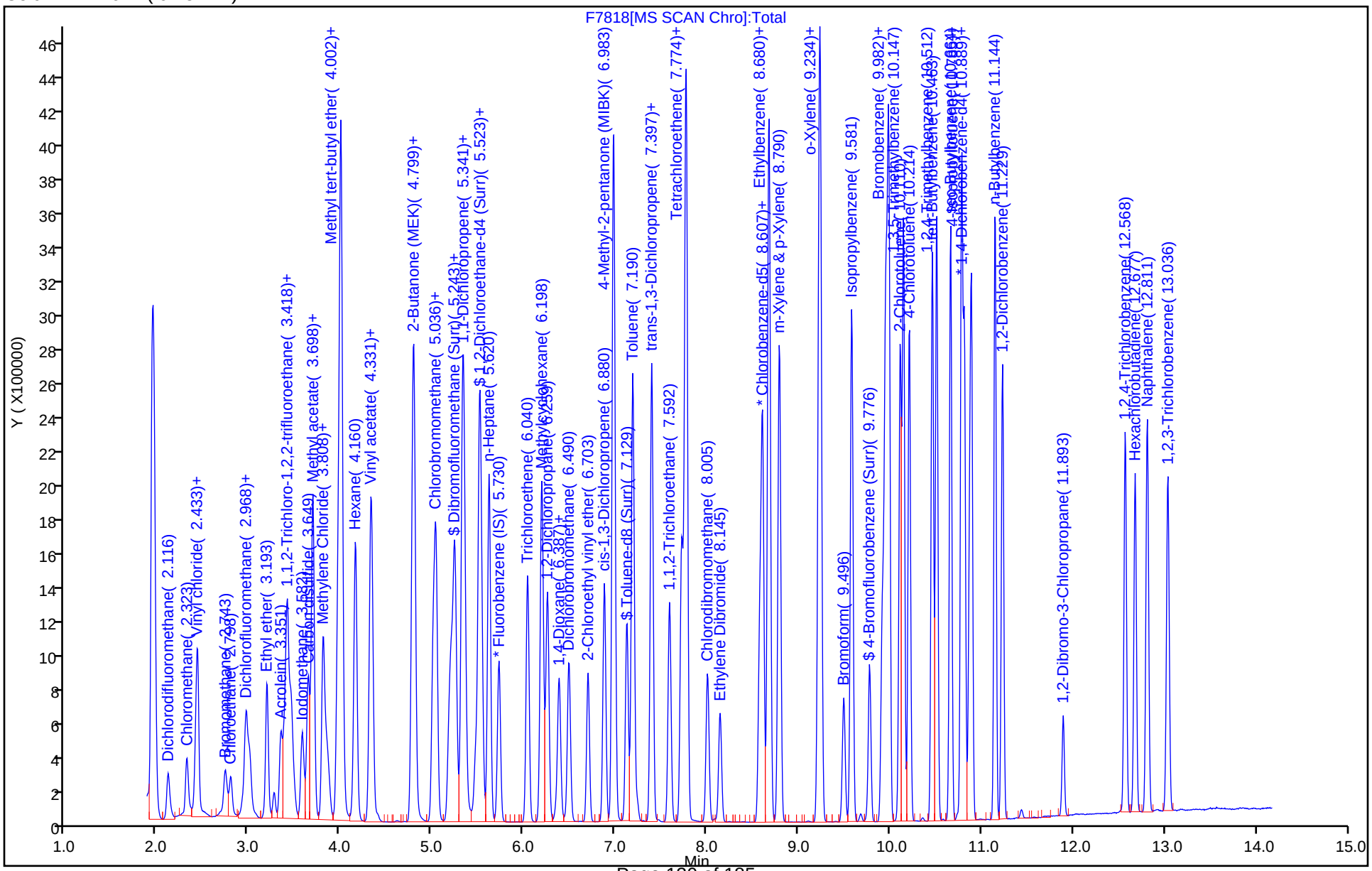
Report Date: 14-Jan-2019 10:31:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7818.D

Injection Date:	11-Jan-2019 13:27:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jan-2019 13:52:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0077924-012
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:35 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:24:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	226529	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	444911	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.871	-0.001	95	448435	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	262551	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	168342	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1052465	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	360002	50.0	51.0	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	1005047	200.0	186.8	
12 Chloromethane	50	2.311	2.317	-0.006	99	1078360	200.0	179.6	
13 Vinyl chloride	62	2.414	2.414	0.000	98	985870	200.0	180.8	M
151 Butadiene	54	2.433	2.433	0.000	89	947739	200.0	175.0	
14 Bromomethane	94	2.731	2.737	-0.006	90	605860	200.0	190.9	
15 Chloroethane	64	2.791	2.798	-0.007	99	544627	200.0	179.6	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	1289917	200.0	185.5	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	1335814	200.0	181.7	
18 Ethyl ether	59	3.187	3.193	-0.006	92	1139686	200.0	187.0	
20 Acrolein	56	3.339	3.339	0.000	100	1091077	1000.0	954.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.388	0.006	92	920954	200.0	188.5	
22 1,1-Dichloroethene	96	3.412	3.418	-0.006	98	963990	200.0	185.4	
23 Acetone	43	3.455	3.455	0.000	100	2344436	1000.0	945.3	
25 Iodomethane	142	3.576	3.582	-0.006	98	1680217	200.0	190.5	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	3236892	200.0	184.5	
27 Methyl acetate	43	3.686	3.686	0.000	98	2531214	400.0	370.3	
28 3-Chloro-1-propene	41	3.692	3.698	-0.006	94	2000403	200.0	181.1	
30 Methylene Chloride	84	3.801	3.808	-0.007	95	1176733	200.0	170.2	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	100	1804929	2000.0	2011.4	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	3614315	200.0	188.3	
33 Acrylonitrile	53	3.996	4.002	-0.006	99	5069207	2000.0	1792.3	
34 trans-1,2-Dichloroethene	96	4.002	4.008	-0.006	98	1165912	200.0	190.7	
35 Hexane	57	4.154	4.160	-0.006	92	2089740	200.0	172.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	4845563	400.0	353.7	
39 1,1-Dichloroethane	63	4.337	4.343	-0.006	96	2090476	200.0	185.8	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	99	3744517	1000.0	915.9	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	1321377	200.0	188.4	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	58	1568850	200.0	182.3	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	653541	200.0	195.4	
49 Tetrahydrofuran	42	5.030	5.036	-0.006	90	1023531	400.0	370.3	
50 Chloroform	83	5.036	5.043	-0.007	93	1946157	200.0	187.5	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	1576736	200.0	188.6	
52 Cyclohexane	56	5.243	5.243	0.000	90	2066261	200.0	182.3	
54 1,1-Dichloropropene	75	5.322	5.328	-0.006	96	1665396	200.0	187.5	
55 Carbon tetrachloride	117	5.341	5.341	-0.001	97	1464159	200.0	195.2	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	2052188	5000.0	4783.6	
57 Benzene	78	5.511	5.517	-0.006	98	4624286	200.0	178.4	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	1583056	200.0	186.0	
59 n-Heptane	43	5.620	5.620	0.000	92	2205578	200.0	182.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	1213098	200.0	188.1	
64 Methylcyclohexane	83	6.192	6.198	-0.006	91	2175471	200.0	186.6	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	97	1307363	200.0	191.6	
66 1,4-Dioxane	88	6.356	6.357	-0.001	94	300176	4000.0	4225.0	
67 Dibromomethane	93	6.387	6.387	0.000	94	763630	200.0	195.4	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	1576440	200.0	196.0	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	964347	200.0	198.8	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	2086101	200.0	191.6	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	92	6369756	1000.0	862.9	
74 Toluene	92	7.190	7.190	0.000	98	3006350	200.0	185.2	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	96	1958418	200.0	195.5	
75 Ethyl methacrylate	69	7.403	7.403	0.000	90	1826053	200.0	197.7	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	946636	200.0	195.4	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	1360757	200.0	190.3	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	97	2020751	200.0	192.2	
80 2-Hexanone	43	7.774	7.774	0.000	90	5221587	1000.0	889.6	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	1305566	200.0	212.6	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	1204383	200.0	200.2	
87 Chlorobenzene	112	8.607	8.608	-0.001	94	3398623	200.0	186.6	
88 Ethylbenzene	91	8.674	8.674	0.000	97	5212700	200.0	177.7	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	95	1195702	200.0	202.6	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	97	2300620	200.0	191.1	
91 o-Xylene	106	9.222	9.222	0.000	95	2156835	200.0	190.7	
92 Styrene	104	9.240	9.240	0.000	94	3822115	200.0	188.1	
95 Bromoform	173	9.496	9.496	0.000	98	961529	200.0	225.8	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	5002221	200.0	170.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	1502928	200.0	190.6	
101 Bromobenzene	156	9.946	9.946	0.000	94	1563567	200.0	186.2	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	73	550049	200.0	195.8	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	83	493421	200.0	194.5	
99 N-Propylbenzene	91	9.988	9.988	0.000	97	5820069	200.0	165.5	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	1405132	200.0	188.6	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	96	4308927	200.0	174.0	
105 4-Chlorotoluene	126	10.213	10.214	-0.001	96	1517258	200.0	188.5	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	1087670	200.0	182.6	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	4433589	200.0	174.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	95	5240484	200.0	164.8	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	95	4702402	200.0	169.6	
111 1,3-Dichlorobenzene	146	10.816	10.810	0.006	97	2814763	200.0	183.6	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	94	2878747	200.0	183.3	
115 n-Butylbenzene	91	11.150	11.150	0.000	95	4184742	200.0	171.4	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	97	2639790	200.0	186.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	90	306137	200.0	195.6	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	95	1810379	200.0	188.3	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	98	974637	200.0	182.7	
121 Naphthalene	128	12.811	12.811	0.000	98	4593618	200.0	185.1	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	1699405	200.0	189.6	
S 125 1,2-Dichloroethene, Total	1				0			379.1	
S 126 1,3-Dichloropropene, Total	1				0			387.1	
S 123 Total BTEX	1				0			923.1	
S 124 Xylenes, Total	1				0			381.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 100.00	Units: uL	
GAS CORP mix_00321	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

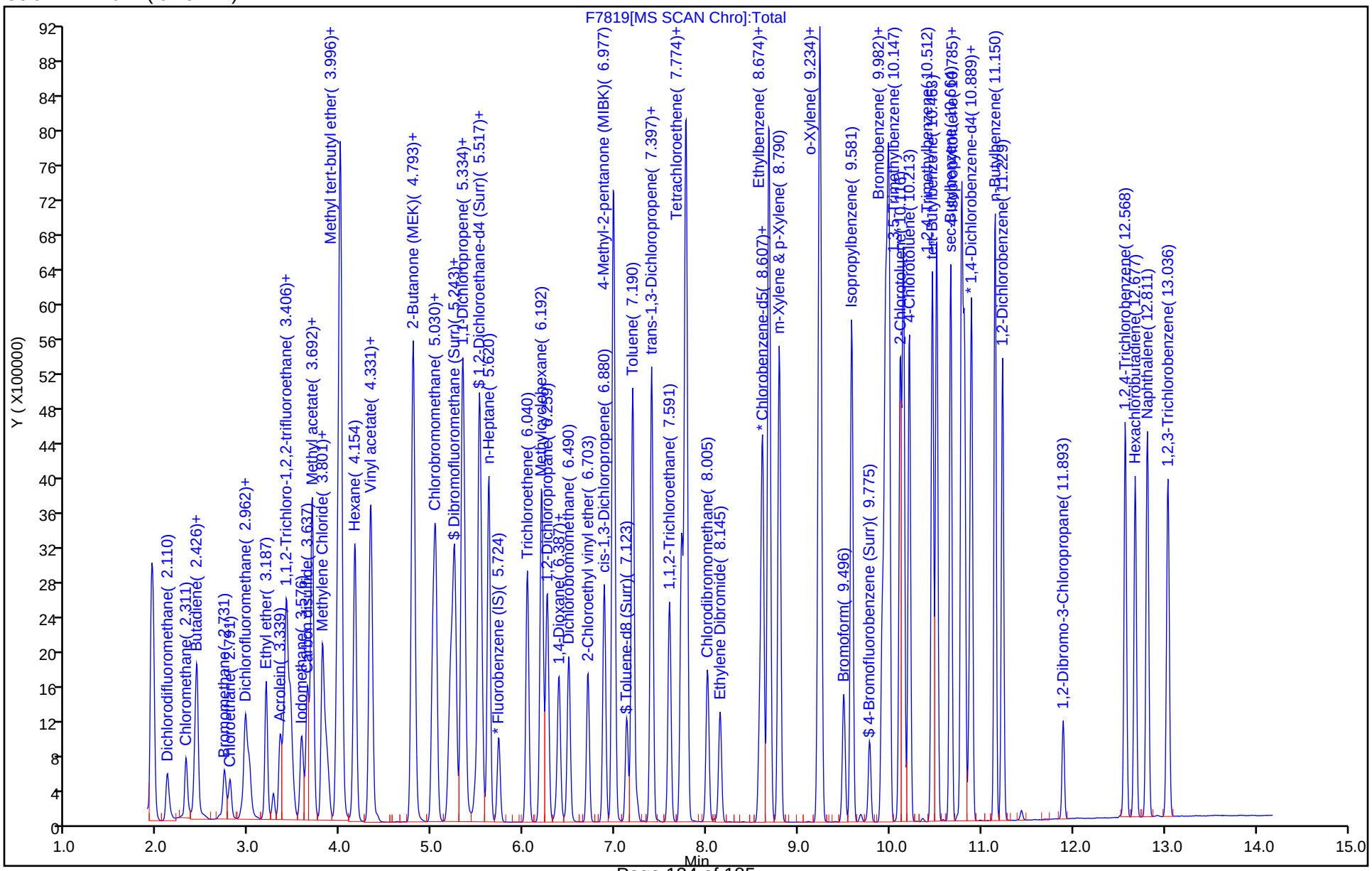
Report Date: 14-Jan-2019 10:31:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D

Injection Date:	11-Jan-2019 13:52:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

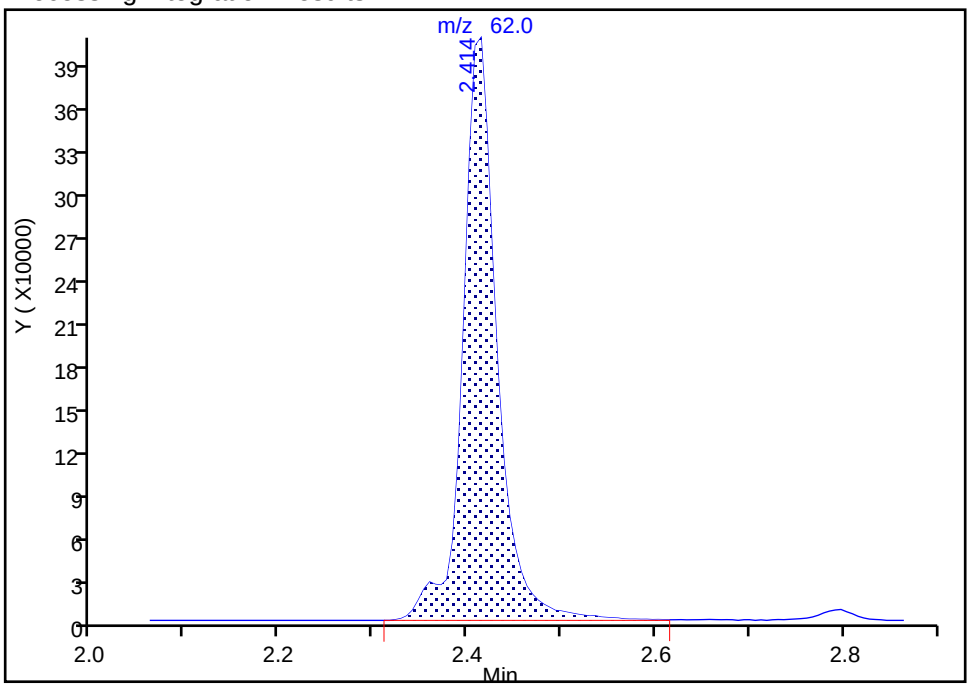
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D
Injection Date: 11-Jan-2019 13:52:30 Instrument ID: HP5973F
Lims ID: IC 7
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

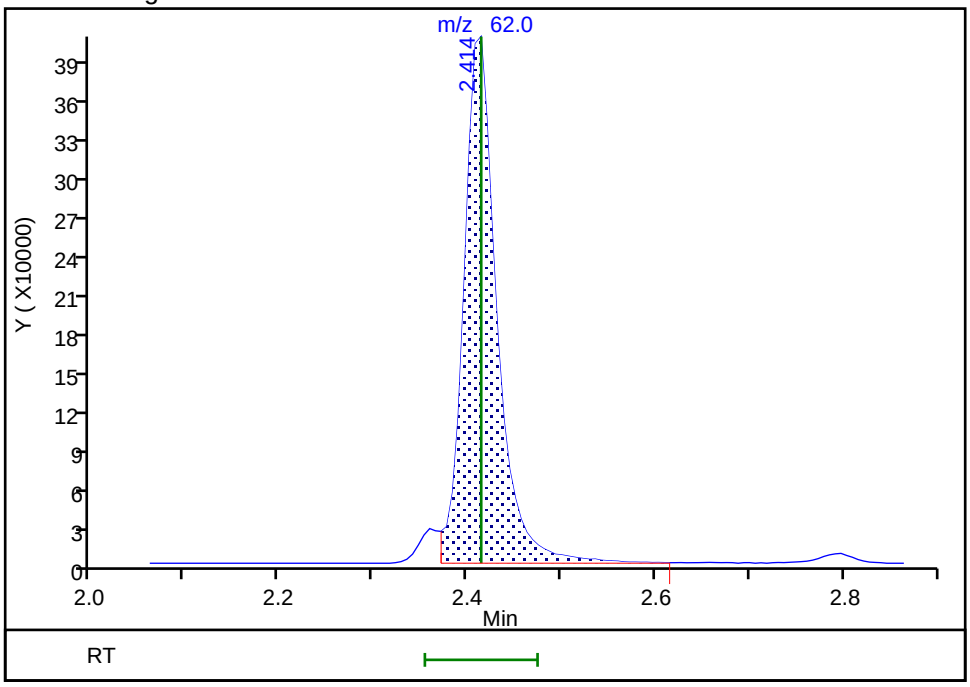
Processing Integration Results

RT: 2.41
Area: 1022391
Amount: 186.6516
Amount Units: ug/kg



Manual Integration Results

RT: 2.41
Area: 985870
Amount: 180.8454
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:20:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab Sample ID: CCVIS 480-462948/3 Calibration Date: 03/14/2019 10:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9033.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.188	1.250	0.1000	52.6	50.0	5.2	50.0
Chloromethane	Ave	1.325	1.312	0.1000	49.5	50.0	-1.0	20.0
Vinyl chloride	Ave	1.203	1.310	0.1000	54.4	50.0	8.8	20.0
Butadiene	Ave	1.195	1.274		53.3	50.0	6.6	20.0
Bromomethane	Ave	0.7005	0.7795	0.1000	55.6	50.0	11.3	50.0
Chloroethane	Ave	0.6694	0.6978	0.1000	52.1	50.0	4.2	50.0
Dichlorofluoromethane	Ave	1.535	1.620		52.8	50.0	5.5	20.0
Trichlorofluoromethane	Ave	1.623	1.711	0.1000	52.7	50.0	5.4	20.0
Ethyl ether	Ave	1.345	1.404		52.2	50.0	4.4	20.0
Acrolein	Ave	0.2523	0.1886		187	250	-25.2	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.078	1.227	0.1000	56.9	50.0	13.8	20.0
1,1-Dichloroethene	Ave	1.148	1.285	0.1000	56.0	50.0	11.9	20.0
Acetone	Ave	0.5474	0.6009	0.1000	274	250	9.8	50.0
Iodomethane	Ave	1.947	2.179		56.0	50.0	11.9	20.0
Carbon disulfide	Ave	3.873	4.071	0.1000	52.6	50.0	5.1	20.0
Methyl acetate	Ave	1.509	1.324	0.1000	87.7	100	-12.3	50.0
Allyl chloride	Ave	2.439	2.331		47.8	50.0	-4.4	20.0
Methylene Chloride	Ave	1.526	1.485	0.1000	48.7	50.0	-2.7	20.0
2-Methyl-2-propanol	Ave	0.1981	0.1954		493	500	-1.4	50.0
Methyl tert-butyl ether	Ave	4.237	4.331	0.1000	51.1	50.0	2.2	20.0
Acrylonitrile	Ave	0.6243	0.6432		515	500	3.0	20.0
trans-1,2-Dichloroethene	Ave	1.350	1.549	0.1000	57.4	50.0	14.8	20.0
Hexane	Ave	2.677	2.613		48.8	50.0	-2.4	20.0
Vinyl acetate	Ave	3.024	3.524		117	100	16.5	20.0
1,1-Dichloroethane	Ave	2.484	2.696	0.2000	54.3	50.0	8.5	20.0
2-Butanone (MEK)	Ave	0.9024	0.9016	0.1000	250	250	-0.0	20.0
2,2-Dichloropropane	Ave	1.900	2.031		53.4	50.0	6.9	20.0
cis-1,2-Dichloroethene	Ave	1.548	1.729	0.1000	55.9	50.0	11.7	20.0
Chlorobromomethane	Ave	0.7382	0.8291		56.2	50.0	12.3	20.0
Tetrahydrofuran	Ave	0.6101	0.5625		92.2	100	-7.8	20.0
Chloroform	Ave	2.291	2.519	0.2000	55.0	50.0	10.0	20.0
1,1,1-Trichloroethane	Ave	1.845	2.028	0.1000	55.0	50.0	9.9	20.0
Cyclohexane	Ave	2.502	2.486	0.1000	49.7	50.0	-0.6	20.0
1,1-Dichloropropene	Ave	1.960	2.190		55.9	50.0	11.7	20.0
Carbon tetrachloride	Ave	1.656	1.877	0.1000	56.7	50.0	13.4	20.0
Isobutyl alcohol	Ave	0.0947	0.0897		1180	1250	-5.3	50.0
Benzene	Ave	5.721	6.279	0.5000	54.9	50.0	9.8	20.0
1,2-Dichloroethane	Ave	1.879	1.973	0.1000	52.5	50.0	5.0	20.0
n-Heptane	Ave	2.672	2.665		49.9	50.0	-0.3	20.0
Trichloroethene	Ave	1.424	1.586	0.2000	55.7	50.0	11.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab Sample ID: CCVIS 480-462948/3 Calibration Date: 03/14/2019 10:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9033.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.574	2.767	0.1000	53.8	50.0	7.5	20.0
1,2-Dichloropropane	Ave	1.506	1.598	0.1000	53.1	50.0	6.1	20.0
1,4-Dioxane	Ave	0.0080	0.0080		1010	1000	0.6	50.0
Dibromomethane	Ave	0.8624	0.9392	0.1000	54.5	50.0	8.9	20.0
Bromodichloromethane	Ave	1.775	1.902	0.2000	53.6	50.0	7.2	20.0
2-Chloroethyl vinyl ether	Ave	1.071	1.127		52.6	50.0	5.3	20.0
cis-1,3-Dichloropropene	Ave	2.403	2.549	0.2000	53.0	50.0	6.1	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8296	0.7641	0.1000	230	250	-7.9	20.0
Toluene	Ave	1.824	1.946	0.4000	53.3	50.0	6.6	20.0
trans-1,3-Dichloropropene	Ave	1.126	1.141	0.1000	50.7	50.0	1.4	20.0
Ethyl methacrylate	Ave	1.038	0.9557		46.0	50.0	-7.9	20.0
1,1,2-Trichloroethane	Ave	0.5446	0.5573	0.1000	51.2	50.0	2.3	20.0
Tetrachloroethene	Ave	0.8036	0.9309	0.2000	57.9	50.0	15.8	20.0
1,3-Dichloropropane	Ave	1.181	1.218		51.5	50.0	3.1	20.0
2-Hexanone	Ave	0.6596	0.6145	0.1000	233	250	-6.8	20.0
Dibromochloromethane	Ave	0.6902	0.7400	0.1000	53.6	50.0	7.2	20.0
1,2-Dibromoethane	Ave	0.6761	0.6986		51.7	50.0	3.3	20.0
Chlorobenzene	Ave	2.047	2.195	0.5000	53.6	50.0	7.2	20.0
Ethylbenzene	Ave	3.297	3.521	0.1000	53.4	50.0	6.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6632	0.6878		51.8	50.0	3.7	20.0
m,p-Xylene	Ave	1.353	1.452	0.1000	53.7	50.0	7.3	20.0
o-Xylene	Ave	1.271	1.327	0.3000	52.2	50.0	4.4	20.0
Styrene	Ave	2.283	2.301	0.3000	50.4	50.0	0.8	20.0
Bromoform	Ave	0.4786	0.5328	0.1000	55.7	50.0	11.3	50.0
Isopropylbenzene	Ave	3.280	3.265	0.1000	49.8	50.0	-0.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8792	0.8322	0.3000	47.3	50.0	-5.4	20.0
Bromobenzene	Ave	0.9362	0.9812		52.4	50.0	4.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3132	0.2825		45.1	50.0	-9.8	50.0
1,2,3-Trichloropropane	Ave	0.2829	0.2814		49.7	50.0	-0.5	20.0
N-Propylbenzene	Ave	3.921	4.009		51.1	50.0	2.2	20.0
2-Chlorotoluene	Ave	0.8306	0.8517		51.3	50.0	2.5	20.0
1,3,5-Trimethylbenzene	Ave	2.762	2.751		49.8	50.0	-0.4	20.0
4-Chlorotoluene	Ave	0.8976	0.9298		51.8	50.0	3.6	20.0
tert-Butylbenzene	Ave	0.6641	0.6452		48.6	50.0	-2.8	20.0
1,2,4-Trimethylbenzene	Ave	2.828	2.830		50.0	50.0	0.0	20.0
sec-Butylbenzene	Ave	3.545	3.512		49.5	50.0	-0.9	20.0
4-Isopropyltoluene	Ave	3.091	3.114		50.4	50.0	0.7	20.0
1,3-Dichlorobenzene	Ave	1.709	1.771	0.6000	51.8	50.0	3.6	20.0
1,4-Dichlorobenzene	Ave	1.751	1.786	0.5000	51.0	50.0	2.0	20.0
n-Butylbenzene	Ave	2.722	2.700		49.6	50.0	-0.8	20.0
1,2-Dichlorobenzene	Ave	1.583	1.570	0.4000	49.6	50.0	-0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Lab Sample ID: CCVIS 480-462948/3 Calibration Date: 03/14/2019 10:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9033.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1745	0.1364	0.0500	39.1	50.0	-21.8	50.0
1,2,4-Trichlorobenzene	Ave	1.072	1.069	0.2000	49.9	50.0	-0.3	20.0
Hexachlorobutadiene	Ave	0.5949	0.6759		56.8	50.0	13.6	20.0
Naphthalene	Ave	2.767	2.443		44.1	50.0	-11.7	20.0
1,2,3-Trichlorobenzene	Ave	0.999	0.9941		49.7	50.0	-0.5	20.0
Dibromofluoromethane (Surr)	Ave	1.157	1.230		53.2	50.0	6.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7445	0.7634		51.3	50.0	2.5	20.0
Toluene-d8 (Surr)	Ave	2.358	2.451		52.0	50.0	3.9	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7933	0.8744		55.1	50.0	10.2	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9033.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 14-Mar-2019 10:37:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0079374-003
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 01:07:17 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: cwiklinc Date: 14-Mar-2019 11:17:40

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.730	0.000	99	198864	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	87	416671	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	422612	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	95	244613	50.0	53.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	151819	50.0	51.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1021151	50.0	52.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	96	364326	50.0	55.1	
10 Dichlorodifluoromethane	85	2.122	2.122	0.000	99	248523	50.0	52.6	
12 Chloromethane	50	2.323	2.323	0.000	99	260895	50.0	49.5	
13 Vinyl chloride	62	2.420	2.420	0.000	98	260430	50.0	54.4	
151 Butadiene	54	2.439	2.439	0.000	88	253272	50.0	53.3	
14 Bromomethane	94	2.737	2.737	0.000	90	155013	50.0	55.6	
15 Chloroethane	64	2.804	2.804	0.000	99	138773	50.0	52.1	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	322160	50.0	52.8	
17 Trichlorofluoromethane	101	2.998	2.998	0.000	98	340158	50.0	52.7	
18 Ethyl ether	59	3.193	3.193	0.000	90	279202	50.0	52.2	
20 Acrolein	56	3.345	3.345	0.000	100	187560	250.0	186.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	91	243982	50.0	56.9	
22 1,1-Dichloroethene	96	3.424	3.424	0.000	98	255470	50.0	56.0	
23 Acetone	43	3.461	3.461	0.000	100	597476	250.0	274.4	
25 Iodomethane	142	3.582	3.582	0.000	98	433336	50.0	56.0	
26 Carbon disulfide	76	3.649	3.649	0.000	99	809577	50.0	52.6	
27 Methyl acetate	43	3.686	3.686	0.000	98	526420	100.0	87.7	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	92	463601	50.0	47.8	
30 Methylene Chloride	84	3.808	3.808	0.000	93	295352	50.0	48.7	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	99	388547	500.0	493.2	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	95	861191	50.0	51.1	
33 Acrylonitrile	53	4.002	4.002	0.000	99	1279167	500.0	515.2	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	308006	50.0	57.4	
35 Hexane	57	4.160	4.160	0.000	91	519709	50.0	48.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	1401605	100.0	116.5	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	536134	50.0	54.3	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	100	896499	250.0	249.8	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	343821	50.0	55.9	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	90	403827	50.0	53.4	
48 Chlorobromomethane	128	5.006	5.006	0.000	96	164875	50.0	56.2	
49 Tetrahydrofuran	42	5.030	5.030	0.000	88	223718	100.0	92.2	
50 Chloroform	83	5.042	5.042	0.000	93	500964	50.0	55.0	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	403367	50.0	55.0	
52 Cyclohexane	56	5.249	5.249	0.000	89	494351	50.0	49.7	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	97	435497	50.0	55.9	
55 Carbon tetrachloride	117	5.341	5.341	0.000	94	373341	50.0	56.7	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	445929	1250.0	1184.1	
57 Benzene	78	5.517	5.517	0.000	96	1248674	50.0	54.9	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	392393	50.0	52.5	
59 n-Heptane	43	5.620	5.620	0.000	91	529945	50.0	49.9	
62 Trichloroethene	95	6.040	6.040	0.000	96	315431	50.0	55.7	
64 Methylcyclohexane	83	6.198	6.198	0.000	88	550277	50.0	53.8	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	97	317711	50.0	53.1	
66 1,4-Dioxane	88	6.357	6.357	0.000	95	66954	1000.0	1006.3	
67 Dibromomethane	93	6.381	6.381	0.000	92	186781	50.0	54.5	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	378229	50.0	53.6	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	224114	50.0	52.6	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	97	506815	50.0	53.0	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	1591899	250.0	230.3	
74 Toluene	92	7.190	7.190	0.000	99	810692	50.0	53.3	
77 trans-1,3-Dichloropropene	75	7.391	7.391	0.000	97	475492	50.0	50.7	
75 Ethyl methacrylate	69	7.397	7.397	0.000	88	398216	50.0	46.0	
79 1,1,2-Trichloroethane	83	7.585	7.585	0.000	91	232216	50.0	51.2	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	387865	50.0	57.9	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	507442	50.0	51.5	
80 2-Hexanone	43	7.768	7.768	0.000	94	1280277	250.0	232.9	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	308327	50.0	53.6	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	291101	50.0	51.7	
87 Chlorobenzene	112	8.607	8.607	0.000	97	914702	50.0	53.6	
88 Ethylbenzene	91	8.674	8.674	0.000	97	1467184	50.0	53.4	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	95	286567	50.0	51.8	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	604984	50.0	53.7	
91 o-Xylene	106	9.222	9.222	0.000	96	553081	50.0	52.2	
92 Styrene	104	9.240	9.240	0.000	95	958893	50.0	50.4	
95 Bromoform	173	9.496	9.496	0.000	99	221984	50.0	55.7	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1379685	50.0	49.8	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	95	351684	50.0	47.3	
101 Bromobenzene	156	9.946	9.946	0.000	93	414658	50.0	52.4	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	71	119394	50.0	45.1	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	83	118923	50.0	49.7	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1694114	50.0	51.1	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	359920	50.0	51.3	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	1162798	50.0	49.8	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	392944	50.0	51.8	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	272675	50.0	48.6	
107 1,2,4-Trimethylbenzene	105	10.506	10.506	0.000	95	1195981	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	1484097	50.0	49.5	
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1316133	50.0	50.4	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	748328	50.0	51.8	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	754779	50.0	51.0	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	1141106	50.0	49.6	
116 1,2-Dichlorobenzene	146	11.229	11.229	0.000	99	663380	50.0	49.6	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	95	57648	50.0	39.1	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	451833	50.0	49.9	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	285621	50.0	56.8	
121 Naphthalene	128	12.811	12.811	0.000	97	1032269	50.0	44.1	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	95	420122	50.0	49.7	

Reagents:

8260 CORP mix_00148	Amount Added: 25.00	Units: uL	
GAS CORP mix_00331	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00083	Amount Added: 1.00	Units: uL	Run Reagent

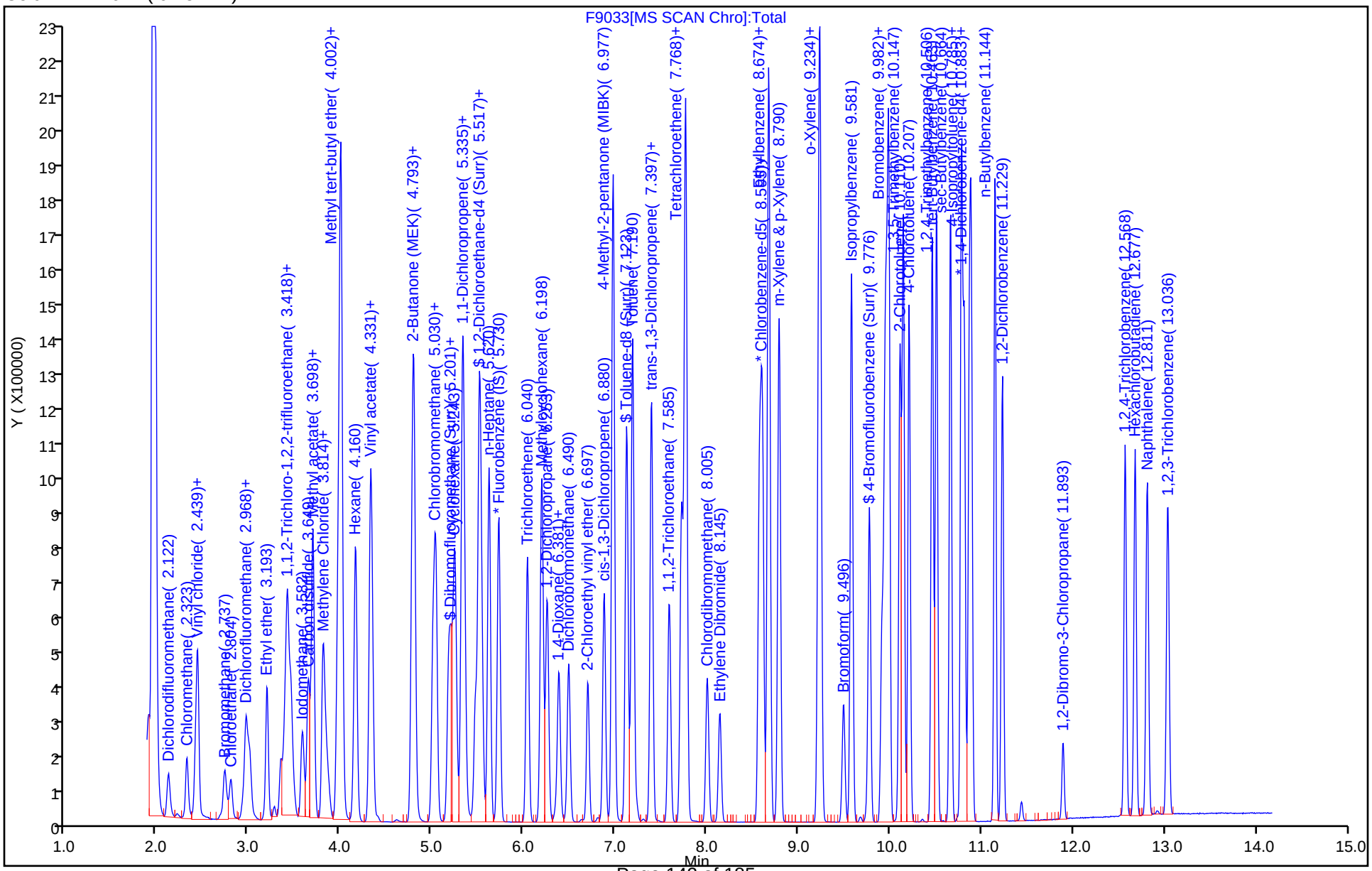
Report Date: 15-Mar-2019 01:07:19 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9033.D

Injection Date:	14-Mar-2019 10:37:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Jan-2019 10:24:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0077924-004
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:27 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 14-Jan-2019 10:30:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.911	5.911	0.000	0	140401	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

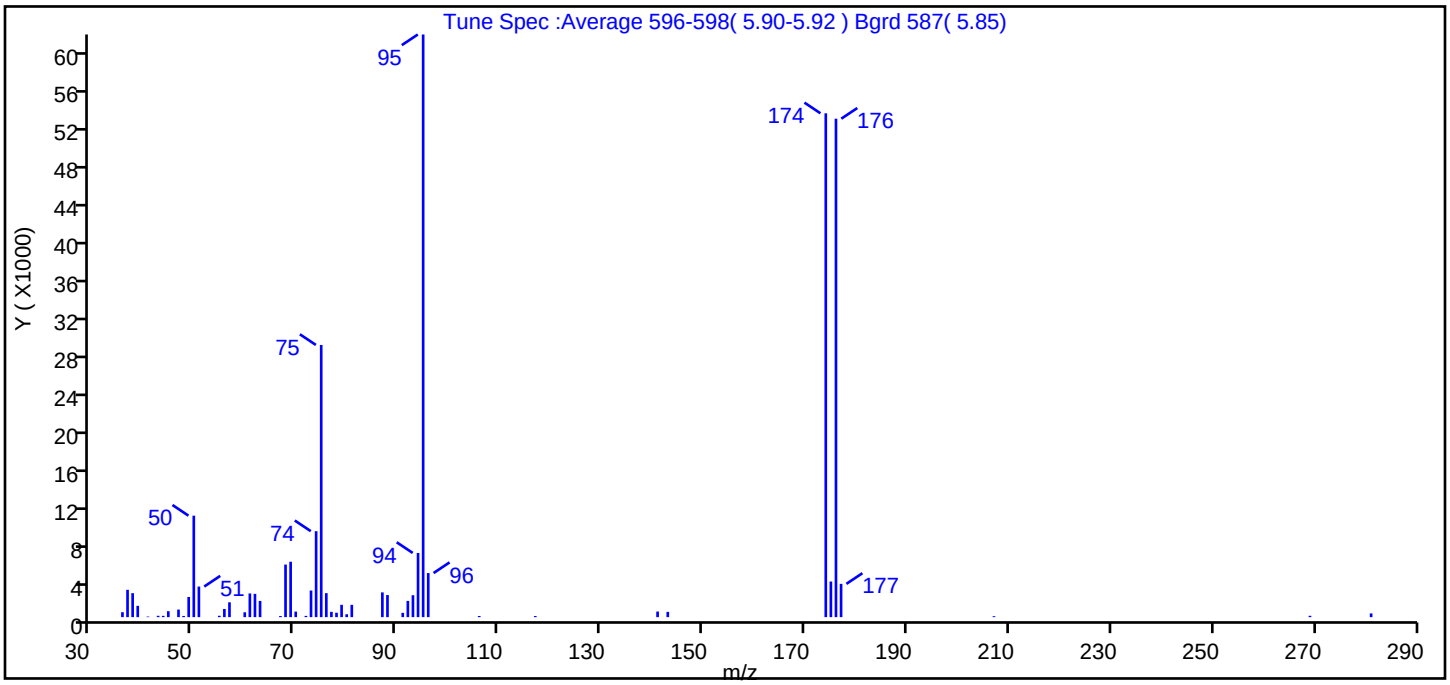
BFB_WRK_00082 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D
Injection Date: 11-Jan-2019 10:24:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.5
175	5 to 9% of m/z 174	6.1 (7.1)
176	Greater than 95% but less than 101% of m/z 174	85.5 (98.9)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 11-Jan-2019 10:24:30
Spectrum: Tune Spec :Average 596-598(5.90-5.92) Bgrd 587(5.85)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	521	56.00	860	76.00	2524	106.00	121
37.00	2873	57.00	1560	77.00	558	117.00	117
38.00	2521	60.00	515	78.00	464	141.00	588
39.00	1187	61.00	2492	79.00	1296	143.00	557
41.00	62	62.00	2448	80.00	303	174.00	52984
43.00	143	63.00	1708	81.00	1295	175.00	3745
44.00	135	67.00	116	87.00	2603	176.00	52416
45.00	625	68.00	5527	88.00	2323	177.00	3500
47.00	796	69.00	5829	91.00	453	207.00	98
48.00	126	70.00	583	92.00	1708	269.00	143
49.00	2123	72.00	134	93.00	2306	281.00	391
50.00	10671	73.00	2802	94.00	6751		
51.00	3217	74.00	9041	95.00	61272		
55.00	144	75.00	28624	96.00	4637		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9032.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 14-Mar-2019 10:09:30 ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0079374-002
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 01:06:06 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 15-Mar-2019 01:06:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.911	5.911	0.000	0	74392	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

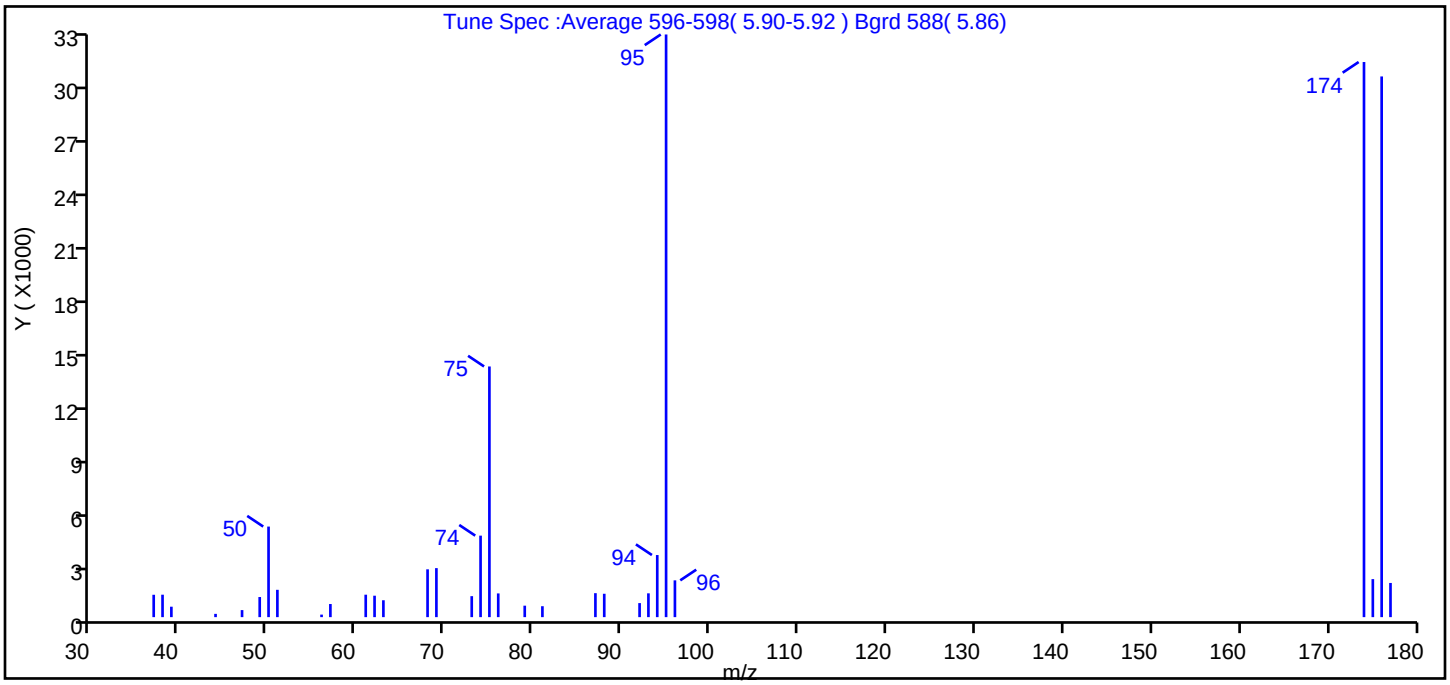
BFB_WRK_00083 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9032.D
Injection Date: 14-Mar-2019 10:09:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	43.0
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	95.3
175	5 to 9% of m/z 174	6.5 (6.8)
176	Greater than 95% but less than 101% of m/z 174	92.8 (97.4)
177	5 to 9% of m/z 176	5.9 (6.3)

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9032.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 14-Mar-2019 10:09:30
Spectrum: Tune Spec :Average 596-598(5.90-5.92) Bgrd 588(5.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	1241	56.00	141	74.00	4521	93.00	1321
38.00	1245	57.00	728	75.00	13905	94.00	3445
39.00	579	61.00	1245	76.00	1316	95.00	32320
44.00	182	62.00	1189	79.00	636	96.00	2041
47.00	391	63.00	937	81.00	606	174.00	30792
49.00	1116	68.00	2653	87.00	1330	175.00	2109
50.00	5024	69.00	2719	88.00	1297	176.00	29992
51.00	1516	73.00	1164	92.00	779	177.00	1896

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-462943/2-A

Matrix: Solid | Lab File ID: F9037.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/14/2019 12:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
98-82-8	Isopropylbenzene	ND		5.0	0.75
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-462943/2-A

Matrix: Solid | Lab File ID: F9037.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/14/2019 12:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9037.D
Lims ID: MB 480-462943/2-A
Client ID:
Sample Type: MB
Inject. Date: 14-Mar-2019 12:21:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB 480-462943/2-A
Misc. Info.: 480-0079374-007
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 01:14:26 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: cwiklinc Date: 14-Mar-2019 13:18:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	100	180501	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	387236	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	359548	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	93	221617	50.0	53.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.480	5.474	0.006	97	143481	50.0	53.4	
$ 5 Toluene-d8 (Surr)	98	7.129	7.123	0.006	93	939327	50.0	51.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	94	316488	50.0	51.5	
11 Chlorodifluoromethane	51		2.122					ND	
10 Dichlorodifluoromethane	85		2.122					ND	
12 Chloromethane	50		2.323					ND	
13 Vinyl chloride	62		2.420					ND	
151 Butadiene	54		2.439					ND	
14 Bromomethane	94		2.737					ND	
15 Chloroethane	64		2.804					ND	
16 Dichlorofluoromethane	67		2.962					ND	
17 Trichlorofluoromethane	101		2.998					ND	
148 Ethanol	45		3.126					ND	
18 Ethyl ether	59		3.193					ND	
19 Propene oxide	58		3.284					ND	
20 Acrolein	56		3.345					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394					ND	
22 1,1-Dichloroethene	96		3.424					ND	
23 Acetone	43	3.473	3.461	0.012	97	4458		2.26	
24 Isopropyl alcohol	45		3.534					ND	
25 Iodomethane	142		3.582					ND	
26 Carbon disulfide	76		3.649					ND	
27 Methyl acetate	43		3.686					ND	
28 3-Chloro-1-propene	41		3.698					ND	
29 Acetonitrile	40		3.704					ND	
30 Methylene Chloride	84	3.820	3.808	0.012	90	7010		1.27	
31 2-Methyl-2-propanol	59		3.844					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.972					ND	
33 Acrylonitrile	53		4.002					ND	
34 trans-1,2-Dichloroethene	96		4.008					ND	
35 Hexane	57		4.160					ND	
134 Halothane	117		4.282					ND	
36 Isopropyl ether	45		4.306					ND	
37 Vinyl acetate	43		4.325					ND	
39 1,1-Dichloroethane	63		4.343					ND	
38 1,1-Dimethoxyethane	75		4.373					ND	
40 2-Chloro-1,3-butadiene	53		4.398					ND	
41 Tert-butyl ethyl ether	59		4.592					ND	
42 Ethyl acetate	43		4.781					ND	
43 2-Butanone (MEK)	43		4.781					ND	
45 cis-1,2-Dichloroethene	96		4.799					ND	
44 2,2-Dichloropropane	77		4.799					ND	
46 Propionitrile	54		4.860					ND	
47 Methacrylonitrile	41		4.969					ND	
48 Chlorobromomethane	128		5.006					ND	
49 Tetrahydrofuran	42		5.030					ND	
50 Chloroform	83		5.042					ND	
51 1,1,1-Trichloroethane	97		5.207					ND	
52 Cyclohexane	56		5.249					ND	
54 1,1-Dichloropropene	75		5.328					ND	
55 Carbon tetrachloride	117		5.341					ND	
53 Isobutyl alcohol	43		5.347					ND	
147 t-Amyl alcohol	59		5.432					ND	
152 Isooctane	57		5.493					ND	
57 Benzene	78		5.517					ND	
56 Tert-amyl methyl ether	73		5.529					ND	
58 1,2-Dichloroethane	62		5.535					ND	
59 n-Heptane	43		5.620					ND	
1 1,4-Difluorobenzene	114		5.785					ND	
60 n-Butanol	56		5.894					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.937					ND	
62 Trichloroethene	95		6.040					ND	
137 Ethyl acrylate	55		6.052					ND	
135 2,4,4-Trimethyl-2-pentene	97		6.125					ND	
64 Methylcyclohexane	83		6.198					ND	
65 1,2-Dichloropropane	63		6.253					ND	
63 Methyl methacrylate	41		6.259					ND	
66 1,4-Dioxane	88		6.357					ND	
67 Dibromomethane	93		6.381					ND	
68 Dichlorobromomethane	83		6.490					ND	
70 2-Nitropropane	43		6.691					ND	
69 2-Chloroethyl vinyl ether	63		6.697					ND	
71 Epichlorohydrin	57		6.807					ND	
72 cis-1,3-Dichloropropene	75		6.880					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977					ND	
74 Toluene	92		7.190					ND	
76 2-Methylthiophene	97		7.318					ND	
77 trans-1,3-Dichloropropene	75		7.391					ND	
75 Ethyl methacrylate	69		7.397					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		7.476					ND	
79 1,1,2-Trichloroethane	83		7.585					ND	
81 Tetrachloroethene	166		7.725					ND	
82 1,3-Dichloropropane	76		7.762					ND	
80 2-Hexanone	43		7.768					ND	
155 n-Butyl acetate	43		7.853					ND	
83 Chlorodibromomethane	129		8.005					ND	
84 Ethylene Dibromide	107		8.145					ND	
85 3-Chlorobenzotrifluoride	180		8.498					ND	
146 1-Chlorohexane	55		8.504					ND	
86 4-Chlorobenzotrifluoride	180		8.559					ND	
87 Chlorobenzene	112		8.607					ND	
88 Ethylbenzene	91		8.674					ND	
89 1,1,1,2-Tetrachloroethane	131		8.680					ND	
90 m-Xylene & p-Xylene	106		8.790					ND	
91 o-Xylene	106		9.222					ND	
92 Styrene	104		9.240					ND	
93 2-Chlorobenzotrifluoride	180		9.483					ND	
95 Bromoform	173		9.496					ND	
94 Isopropylbenzene	105		9.581					ND	
96 Cyclohexanone	55		9.745					ND	
97 1,1,2,2-Tetrachloroethane	83		9.909					ND	
101 Bromobenzene	156		9.946					ND	
98 trans-1,4-Dichloro-2-buten	53		9.958					ND	
100 1,2,3-Trichloropropane	110		9.970					ND	
99 N-Propylbenzene	91		9.988					ND	
103 2-Chlorotoluene	126		10.110					ND	
102 1,3,5-Trimethylbenzene	105		10.147					ND	
104 3-Chlorotoluene	126		10.165					ND	
105 4-Chlorotoluene	126		10.207					ND	
106 tert-Butylbenzene	134		10.463					ND	
107 1,2,4-Trimethylbenzene	105		10.506					ND	U
108 Pentachloroethane	167		10.530					ND	
109 sec-Butylbenzene	105		10.664					ND	
110 4-Isopropyltoluene	119		10.779					ND	
111 1,3-Dichlorobenzene	146		10.810					ND	
113 1,4-Dichlorobenzene	146		10.889					ND	
114 Dicyclopentadiene	66		10.895					ND	
112 1,2,3-Trimethylbenzene	105		10.907					ND	
150 Benzyl chloride	126		11.004					ND	
115 n-Butylbenzene	91		11.144					ND	
116 1,2-Dichlorobenzene	146		11.229					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893					ND	
118 1,3,5-Trichlorobenzene	180		12.032					ND	
119 1,2,4-Trichlorobenzene	180		12.568					ND	
120 Hexachlorobutadiene	225		12.677					ND	
121 Naphthalene	128	12.805	12.811	-0.006	90	5555		0.2792	
122 1,2,3-Trichlorobenzene	180		13.036					ND	
149 2-Methylnaphthalene	142	13.943	13.943	0.000	90	2425		0.1960	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

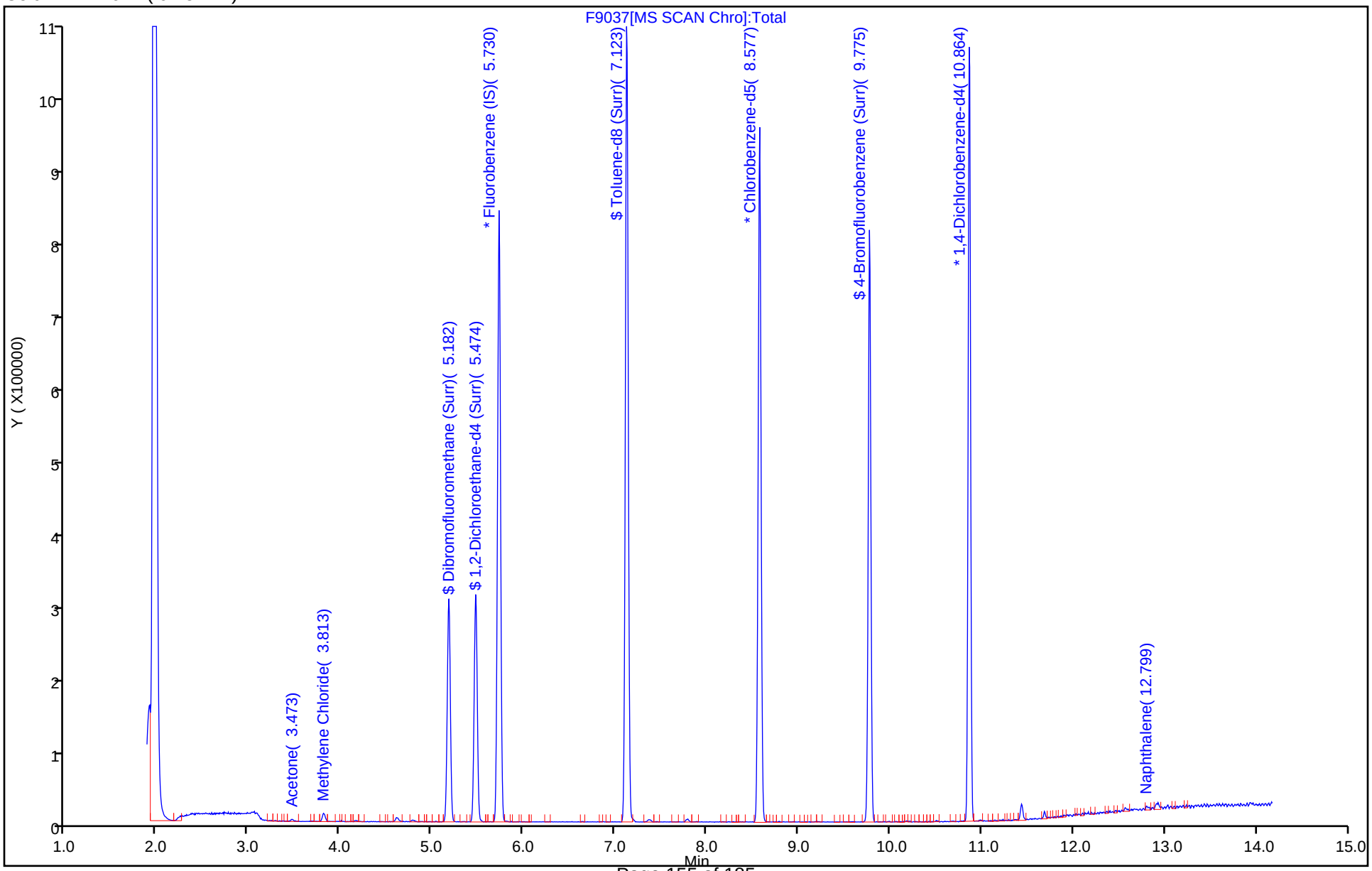
Report Date: 15-Mar-2019 01:14:29 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9037.D

Injection Date:	14-Mar-2019 12:21:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	MB 480-462943/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-462943/1-A

Matrix: Solid | Lab File ID: F9035.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/14/2019 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	51.6		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	46.7		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50.6		5.0	1.1
79-00-5	1,1,2-Trichloroethane	48.6		5.0	0.65
75-34-3	1,1-Dichloroethane	50.9		5.0	0.61
75-35-4	1,1-Dichloroethene	50.9		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	45.9		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	44.1		5.0	2.5
95-50-1	1,2-Dichlorobenzene	45.3		5.0	0.39
107-06-2	1,2-Dichloroethane	50.4		5.0	0.25
78-87-5	1,2-Dichloropropane	50.1		5.0	2.5
541-73-1	1,3-Dichlorobenzene	46.8		5.0	0.26
106-46-7	1,4-Dichlorobenzene	45.9		5.0	0.70
78-93-3	2-Butanone (MEK)	256		25	1.8
591-78-6	2-Hexanone	239		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	234		25	1.6
67-64-1	Acetone	274		25	4.2
71-43-2	Benzene	51.7		5.0	0.25
75-25-2	Bromoform	54.5		5.0	2.5
74-83-9	Bromomethane	49.6		5.0	0.45
75-15-0	Carbon disulfide	47.4		5.0	2.5
56-23-5	Carbon tetrachloride	52.8		5.0	0.48
108-90-7	Chlorobenzene	49.8		5.0	0.66
124-48-1	Dibromochloromethane	50.7		5.0	0.64
75-00-3	Chloroethane	42.4		5.0	1.1
67-66-3	Chloroform	51.6		5.0	0.31
74-87-3	Chloromethane	44.1		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	52.1		5.0	0.64
110-82-7	Cyclohexane	46.1		5.0	0.70
75-27-4	Bromodichloromethane	50.6		5.0	0.67
75-71-8	Dichlorodifluoromethane	46.6		5.0	0.41
100-41-4	Ethylbenzene	49.4		5.0	0.35
106-93-4	1,2-Dibromoethane	49.7		5.0	0.64
98-82-8	Isopropylbenzene	45.3		5.0	0.75
79-20-9	Methyl acetate	91.0		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-462943/1-A

Matrix: Solid | Lab File ID: F9035.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/14/2019 11:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	49.7		5.0	0.49
108-87-2	Methylcyclohexane	49.1		5.0	0.76
75-09-2	Methylene Chloride	45.3		5.0	2.3
127-18-4	Tetrachloroethene	52.4		5.0	0.67
108-88-3	Toluene	49.5		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	53.5		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	47.5		5.0	2.2
79-01-6	Trichloroethene	52.2		5.0	1.1
75-69-4	Trichlorofluoromethane	46.7		5.0	0.47
75-01-4	Vinyl chloride	47.9		5.0	0.61
1330-20-7	Xylenes, Total	97.5		10	0.84
10061-01-5	cis-1,3-Dichloropropene	49.9		5.0	0.72
100-42-5	Styrene	48.0		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		64-126
460-00-4	4-Bromofluorobenzene (Surr)	109		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9035.D
Lims ID: LCS 480-462943/1-A
Client ID:
Sample Type: LCS
Inject. Date: 14-Mar-2019 11:29:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS 480-462943/1-A
Misc. Info.: 480-0079374-005
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 01:09:40 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: cwiklinc Date: 14-Mar-2019 13:14:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	186224	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	394955	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	405438	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	95	230825	50.0	53.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	98	145089	50.0	52.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	959411	50.0	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.781	9.775	0.006	96	341341	50.0	54.5	
10 Dichlorodifluoromethane	85	2.122	2.122	0.000	99	206324	50.0	46.6	
12 Chloromethane	50	2.323	2.323	0.000	99	217777	50.0	44.1	
13 Vinyl chloride	62	2.420	2.420	0.000	97	214482	50.0	47.9	
151 Butadiene	54	2.439	2.439	0.000	87	206254	50.0	46.3	
14 Bromomethane	94	2.737	2.737	0.000	90	129332	50.0	49.6	
15 Chloroethane	64	2.804	2.804	0.000	99	105638	50.0	42.4	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	266055	50.0	46.5	
17 Trichlorofluoromethane	101	2.998	2.998	0.000	99	282058	50.0	46.7	
18 Ethyl ether	59	3.199	3.193	0.006	91	250854	50.0	50.1	
20 Acrolein	56	3.345	3.345	0.000	99	171398	250.0	182.4	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.394	0.006	91	203318	50.0	50.6	
22 1,1-Dichloroethene	96	3.424	3.424	0.000	98	217583	50.0	50.9	
23 Acetone	43	3.461	3.461	0.000	100	557765	250.0	273.6	
25 Iodomethane	142	3.582	3.582	0.000	98	373815	50.0	51.6	
26 Carbon disulfide	76	3.649	3.649	0.000	99	683904	50.0	47.4	
27 Methyl acetate	43	3.692	3.686	0.006	98	511605	100.0	91.0	
28 3-Chloro-1-propene	41	3.704	3.698	0.006	91	409514	50.0	45.1	
30 Methylene Chloride	84	3.813	3.808	0.005	93	257629	50.0	45.3	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	99	371045	500.0	503.0	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	95	784721	50.0	49.7	
33 Acrylonitrile	53	4.002	4.002	0.000	100	1219990	500.0	524.7	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	100	269142	50.0	53.5	
35 Hexane	57	4.166	4.160	0.006	90	433169	50.0	43.4	
37 Vinyl acetate	43	4.324	4.325	-0.001	97	1281473	100.0	113.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.349	4.343	0.006	96	470784	50.0	50.9	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	99	860365	250.0	256.0	
45 cis-1,2-Dichloroethene	96	4.805	4.799	0.006	81	300290	50.0	52.1	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	88	347000	50.0	49.0	
48 Chlorobromomethane	128	5.012	5.006	0.006	92	147647	50.0	53.7	
49 Tetrahydrofuran	42	5.030	5.030	0.000	90	213790	100.0	94.1	
50 Chloroform	83	5.042	5.042	0.000	93	440108	50.0	51.6	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	354423	50.0	51.6	
52 Cyclohexane	56	5.249	5.249	0.000	89	429810	50.0	46.1	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	97	380651	50.0	52.1	
55 Carbon tetrachloride	117	5.340	5.341	-0.001	92	325756	50.0	52.8	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	442230	1250.0	1253.9	
57 Benzene	78	5.517	5.517	0.000	96	1101771	50.0	51.7	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	352599	50.0	50.4	
59 n-Heptane	43	5.620	5.620	0.000	91	432782	50.0	43.5	
62 Trichloroethene	95	6.040	6.040	0.000	96	276523	50.0	52.2	
64 Methylcyclohexane	83	6.198	6.198	0.000	88	470902	50.0	49.1	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	97	280948	50.0	50.1	
66 1,4-Dioxane	88	6.356	6.357	-0.001	92	67285	1000.0	1066.8	
67 Dibromomethane	93	6.387	6.381	0.006	92	169509	50.0	52.8	
68 Dichlorobromomethane	83	6.490	6.490	0.000	100	334679	50.0	50.6	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	206513	50.0	51.8	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	97	446502	50.0	49.9	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	1532192	250.0	233.8	
74 Toluene	92	7.190	7.190	0.000	99	713932	50.0	49.5	
77 trans-1,3-Dichloropropene	75	7.391	7.391	0.000	96	422728	50.0	47.5	
75 Ethyl methacrylate	69	7.397	7.397	0.000	90	369738	50.0	45.1	
79 1,1,2-Trichloroethane	83	7.591	7.585	0.006	91	209104	50.0	48.6	
81 Tetrachloroethene	166	7.731	7.725	0.006	95	332459	50.0	52.4	
82 1,3-Dichloropropane	76	7.756	7.762	-0.006	98	456587	50.0	48.9	
80 2-Hexanone	43	7.774	7.768	0.006	93	1243069	250.0	238.6	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	276323	50.0	50.7	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	265192	50.0	49.7	
87 Chlorobenzene	112	8.607	8.607	0.000	96	805291	50.0	49.8	
88 Ethylbenzene	91	8.680	8.674	0.006	97	1287316	50.0	49.4	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	84	255368	50.0	48.7	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	527449	50.0	49.4	
91 o-Xylene	106	9.228	9.222	0.006	95	483086	50.0	48.1	
92 Styrene	104	9.240	9.240	0.000	95	866021	50.0	48.0	
95 Bromoform	173	9.489	9.496	-0.007	99	206040	50.0	54.5	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1204667	50.0	45.3	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	93	333162	50.0	46.7	
101 Bromobenzene	156	9.946	9.946	0.000	91	363228	50.0	47.8	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	71	111797	50.0	44.0	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	80	112590	50.0	49.1	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1481405	50.0	46.6	
103 2-Chlorotoluene	126	10.110	10.110	0.000	97	312193	50.0	46.4	
102 1,3,5-Trimethylbenzene	105	10.140	10.147	-0.007	94	1015160	50.0	45.3	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	341110	50.0	46.9	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	236443	50.0	43.9	
107 1,2,4-Trimethylbenzene	105	10.511	10.506	0.005	93	1044118	50.0	45.5	
109 sec-Butylbenzene	105	10.657	10.664	-0.007	94	1293479	50.0	45.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.779	10.779	0.000	96	1139914	50.0	45.5	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	96	648841	50.0	46.8	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	93	651187	50.0	45.9	
115 n-Butylbenzene	91	11.150	11.144	0.006	97	985537	50.0	44.7	
116 1,2-Dichlorobenzene	146	11.223	11.229	-0.006	98	581482	50.0	45.3	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	91	62359	50.0	44.1	
119 1,2,4-Trichlorobenzene	180	12.574	12.568	0.006	92	398985	50.0	45.9	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	93	245375	50.0	50.9	
121 Naphthalene	128	12.811	12.811	0.000	96	972272	50.0	43.3	
122 1,2,3-Trichlorobenzene	180	13.030	13.036	-0.006	94	371728	50.0	45.9	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

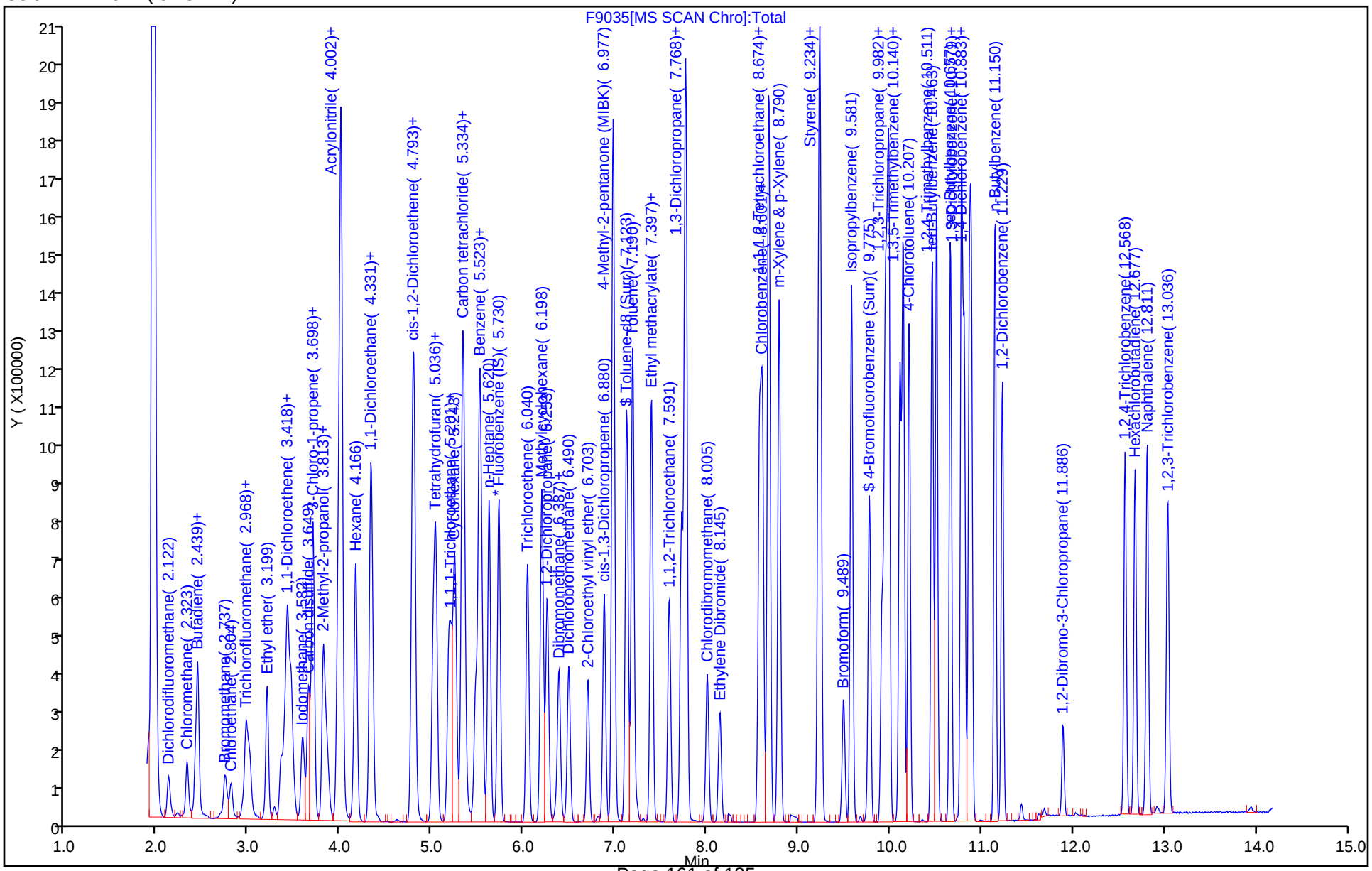
Report Date: 15-Mar-2019 01:09:51 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9035.D

Injection Date:	14-Mar-2019 11:29:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	LCS 480-462943/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 MS | Lab Sample ID: 480-150190-4 MS

Matrix: Solid | Lab File ID: F9043.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.32(g) | Date Analyzed: 03/14/2019 15:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	51.4		5.3	0.38
79-34-5	1,1,2,2-Tetrachloroethane	37.8		5.3	0.86
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	53.0		5.3	1.2
79-00-5	1,1,2-Trichloroethane	44.5		5.3	0.69
75-34-3	1,1-Dichloroethane	51.4		5.3	0.64
75-35-4	1,1-Dichloroethene	50.6		5.3	0.65
120-82-1	1,2,4-Trichlorobenzene	45.7		5.3	0.32
96-12-8	1,2-Dibromo-3-Chloropropane	26.2		5.3	2.6
95-50-1	1,2-Dichlorobenzene	45.5		5.3	0.41
107-06-2	1,2-Dichloroethane	48.0		5.3	0.26
78-87-5	1,2-Dichloropropane	50.2		5.3	2.6
541-73-1	1,3-Dichlorobenzene	47.0		5.3	0.27
106-46-7	1,4-Dichlorobenzene	46.7		5.3	0.74
78-93-3	2-Butanone (MEK)	160		26	1.9
591-78-6	2-Hexanone	157		26	2.6
108-10-1	4-Methyl-2-pentanone (MIBK)	169		26	1.7
67-64-1	Acetone	155		26	4.4
71-43-2	Benzene	51.9		5.3	0.26
75-25-2	Bromoform	45.0		5.3	2.6
74-83-9	Bromomethane	60.8		5.3	0.47
75-15-0	Carbon disulfide	49.3		5.3	2.6
56-23-5	Carbon tetrachloride	52.9		5.3	0.51
108-90-7	Chlorobenzene	50.5		5.3	0.70
124-48-1	Dibromochloromethane	47.4		5.3	0.68
75-00-3	Chloroethane	54.2		5.3	1.2
67-66-3	Chloroform	51.8		5.3	0.33
74-87-3	Chloromethane	51.4		5.3	0.32
156-59-2	cis-1,2-Dichloroethene	53.0		5.3	0.68
110-82-7	Cyclohexane	47.5		5.3	0.74
75-27-4	Bromodichloromethane	50.2		5.3	0.71
75-71-8	Dichlorodifluoromethane	52.7		5.3	0.44
100-41-4	Ethylbenzene	49.8		5.3	0.36
106-93-4	1,2-Dibromoethane	43.2		5.3	0.68
98-82-8	Isopropylbenzene	45.7		5.3	0.80
79-20-9	Methyl acetate	62.8		26	3.2

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 MS | Lab Sample ID: 480-150190-4 MS

Matrix: Solid | Lab File ID: F9043.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.32(g) | Date Analyzed: 03/14/2019 15:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	44.8		5.3	0.52
108-87-2	Methylcyclohexane	50.5		5.3	0.80
75-09-2	Methylene Chloride	47.1		5.3	2.4
127-18-4	Tetrachloroethene	55.8		5.3	0.71
108-88-3	Toluene	49.9		5.3	0.40
156-60-5	trans-1,2-Dichloroethene	52.8		5.3	0.54
10061-02-6	trans-1,3-Dichloropropene	44.7		5.3	2.3
79-01-6	Trichloroethene	54.0		5.3	1.2
75-69-4	Trichlorofluoromethane	55.3		5.3	0.50
75-01-4	Vinyl chloride	54.3		5.3	0.64
1330-20-7	Xylenes, Total	98.4		11	0.89
10061-01-5	cis-1,3-Dichloropropene	48.3		5.3	0.76
100-42-5	Styrene	46.8		5.3	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
460-00-4	4-Bromofluorobenzene (Surr)	110		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9043.D
Lims ID: 480-150190-C-4-B MS
Client ID: PDI-35-SO-14-031319
Sample Type: MS
Inject. Date: 14-Mar-2019 15:26:30 ALS Bottle#: 6 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-4-B MS
Misc. Info.: 480-0079374-013
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 18:02:12 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 18:02:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	177577	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	375964	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.864	0.006	93	388334	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	95	218891	50.0	53.3	a
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	97	133590	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	912753	50.0	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	96	328451	50.0	55.1	
10 Dichlorodifluoromethane	85	2.122	2.122	0.000	99	210575	50.0	49.9	
12 Chloromethane	50	2.323	2.323	0.000	99	229062	50.0	48.7	
13 Vinyl chloride	62	2.420	2.420	0.000	98	219977	50.0	51.5	
14 Bromomethane	94	2.743	2.737	0.006	90	143459	50.0	57.7	
15 Chloroethane	64	2.810	2.804	0.006	99	122024	50.0	51.3	
17 Trichlorofluoromethane	101	3.004	2.998	0.006	98	302289	50.0	52.4	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.394	0.006	91	192423	50.0	50.3	
22 1,1-Dichloroethene	96	3.424	3.424	0.000	98	195597	50.0	48.0	
23 Acetone	43	3.461	3.461	-0.001	100	285247	250.0	146.7	
26 Carbon disulfide	76	3.649	3.649	0.000	99	642588	50.0	46.7	
27 Methyl acetate	43	3.692	3.686	0.006	98	318893	100.0	59.5	
30 Methylene Chloride	84	3.813	3.808	0.005	93	241668	50.0	44.6	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	95	639243	50.0	42.5	
34 trans-1,2-Dichloroethene	96	4.014	4.008	0.006	99	239798	50.0	50.0	
39 1,1-Dichloroethane	63	4.349	4.343	0.006	96	429883	50.0	48.7	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	486590	250.0	151.8	
45 cis-1,2-Dichloroethene	96	4.805	4.793	0.006	82	275854	50.0	50.2	
50 Chloroform	83	5.042	5.042	0.000	93	399465	50.0	49.1	
51 1,1,1-Trichloroethane	97	5.213	5.207	0.006	98	319086	50.0	48.7	
52 Cyclohexane	56	5.249	5.249	0.000	89	399618	50.0	45.0	
55 Carbon tetrachloride	117	5.346	5.341	0.005	95	294908	50.0	50.2	
57 Benzene	78	5.517	5.517	0.000	96	999680	50.0	49.2	
58 1,2-Dichloroethane	62	5.541	5.535	0.006	97	303796	50.0	45.5	
62 Trichloroethene	95	6.040	6.040	0.000	97	258882	50.0	51.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	6.198	6.198	0.000	89	437686	50.0	47.9	
65 1,2-Dichloropropane	63	6.259	6.253	0.006	97	254615	50.0	47.6	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	299765	50.0	47.6	
72 cis-1,3-Dichloropropene	75	6.879	6.880	-0.001	97	390312	50.0	45.7	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	997500	250.0	159.9	
74 Toluene	92	7.190	7.190	0.000	99	648402	50.0	47.3	
77 trans-1,3-Dichloropropene	75	7.397	7.391	0.006	97	358567	50.0	42.4	
79 1,1,2-Trichloroethane	83	7.591	7.585	0.006	91	172858	50.0	42.2	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	319532	50.0	52.9	
80 2-Hexanone	43	7.774	7.768	0.006	94	737410	250.0	148.7	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	232974	50.0	44.9	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	207953	50.0	40.9	
87 Chlorobenzene	112	8.607	8.607	0.000	96	736378	50.0	47.8	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1169605	50.0	47.2	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	480896		47.3	
91 o-Xylene	106	9.222	9.222	0.000	96	439249		46.0	
92 Styrene	104	9.240	9.240	0.000	95	761133	50.0	44.3	
95 Bromoform	173	9.495	9.496	-0.001	99	153433	50.0	42.6	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1102534	50.0	43.3	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.909	0.006	96	244540	50.0	35.8	
111 1,3-Dichlorobenzene	146	10.809	10.810	-0.001	98	591697	50.0	44.6	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	601834	50.0	44.2	
116 1,2-Dichlorobenzene	146	11.229	11.230	0.000	99	529546	50.0	43.1	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	89	33658	50.0	24.8	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	360757	50.0	43.3	
S 124 Xylenes, Total	1				0			93.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

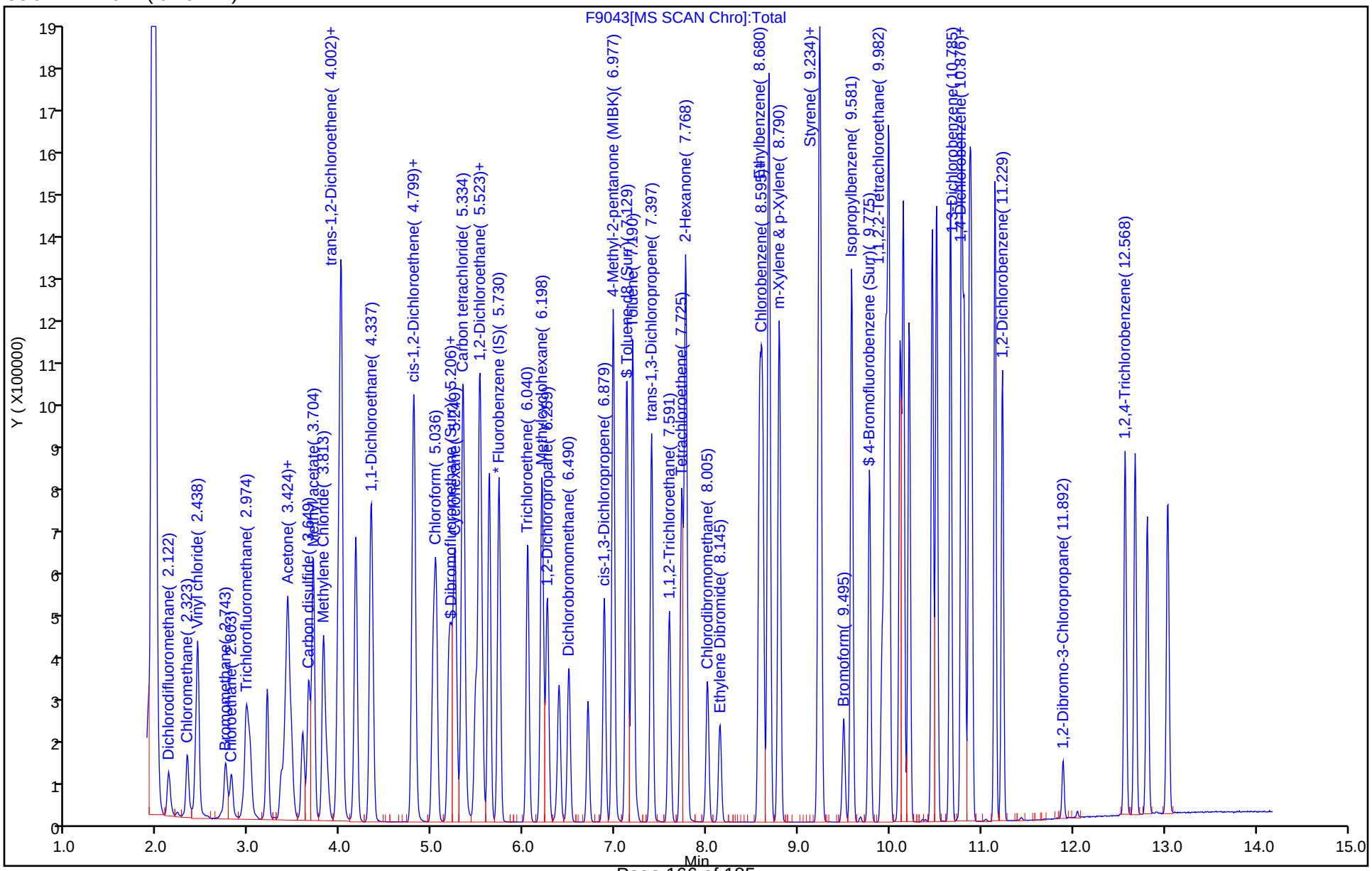
Report Date: 14-Mar-2019 18:02:16 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9043.D

Injection Date:	14-Mar-2019 15:26:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-4-B MS			Worklist Smp#:	13
Client ID:	PDI-35-SO-14-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

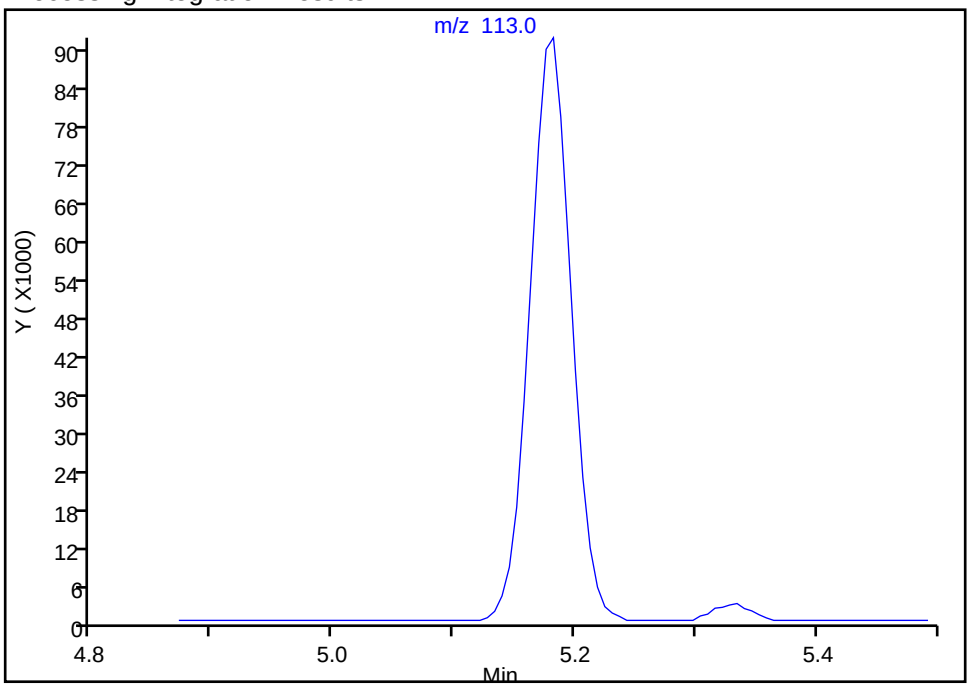
Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9043.D				
Injection Date:	14-Mar-2019 15:26:30	Instrument ID:	HP5973F		
Lims ID:	480-150190-C-4-B MS				
Client ID:	PDI-35-SO-14-031319				
Operator ID:	CDC	ALS Bottle#:	6	Worklist Smp#:	13
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

$ 154 Dibromofluoromethane (Surr), CAS: 1868-53-7

Signal: 1

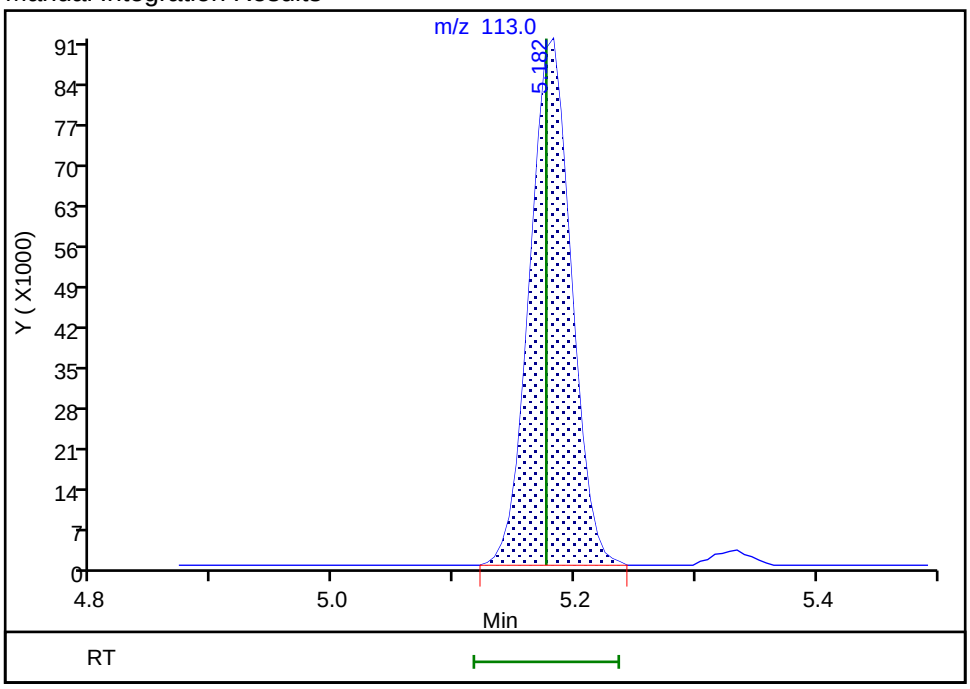
Not Detected
Expected RT: 5.18

Processing Integration Results



Manual Integration Results

RT: 5.18
Area: 218891
Amount: 53.269525
Amount Units: ug/kg



Reviewer: milligana, 14-Mar-2019 18:01:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 MSD | Lab Sample ID: 480-150190-4 MSD

Matrix: Solid | Lab File ID: F9044.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.92(g) | Date Analyzed: 03/14/2019 15:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	44.5		4.8	0.35
79-34-5	1,1,2,2-Tetrachloroethane	36.5		4.8	0.78
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	44.6		4.8	1.1
79-00-5	1,1,2-Trichloroethane	41.5		4.8	0.63
75-34-3	1,1-Dichloroethane	45.2		4.8	0.59
75-35-4	1,1-Dichloroethene	44.4		4.8	0.59
120-82-1	1,2,4-Trichlorobenzene	42.1		4.8	0.29
96-12-8	1,2-Dibromo-3-Chloropropane	27.9		4.8	2.4
95-50-1	1,2-Dichlorobenzene	41.0		4.8	0.38
107-06-2	1,2-Dichloroethane	43.6		4.8	0.24
78-87-5	1,2-Dichloropropane	44.7		4.8	2.4
541-73-1	1,3-Dichlorobenzene	42.1		4.8	0.25
106-46-7	1,4-Dichlorobenzene	41.8		4.8	0.67
78-93-3	2-Butanone (MEK)	169		24	1.8
591-78-6	2-Hexanone	165		24	2.4
108-10-1	4-Methyl-2-pentanone (MIBK)	173		24	1.6
67-64-1	Acetone	166		24	4.1
71-43-2	Benzene	45.5		4.8	0.24
75-25-2	Bromoform	43.4		4.8	2.4
74-83-9	Bromomethane	51.0		4.8	0.43
75-15-0	Carbon disulfide	42.0		4.8	2.4
56-23-5	Carbon tetrachloride	45.6		4.8	0.47
108-90-7	Chlorobenzene	44.1		4.8	0.64
124-48-1	Dibromochloromethane	43.4		4.8	0.62
75-00-3	Chloroethane	45.5		4.8	1.1
67-66-3	Chloroform	45.6		4.8	0.30
74-87-3	Chloromethane	42.2		4.8	0.29
156-59-2	cis-1,2-Dichloroethene	47.3		4.8	0.62
110-82-7	Cyclohexane	40.1		4.8	0.67
75-27-4	Bromodichloromethane	44.9		4.8	0.65
75-71-8	Dichlorodifluoromethane	42.5		4.8	0.40
100-41-4	Ethylbenzene	43.5		4.8	0.33
106-93-4	1,2-Dibromoethane	40.9		4.8	0.62
98-82-8	Isopropylbenzene	39.3		4.8	0.73
79-20-9	Methyl acetate	64.9		24	2.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150190-1

SDG No.:

Client Sample ID: PDI-35-SO-14-031319 MSD | Lab Sample ID: 480-150190-4 MSD

Matrix: Solid | Lab File ID: F9044.D

Analysis Method: 8260C | Date Collected: 03/13/2019 09:45

Sample wt/vol: 6.92(g) | Date Analyzed: 03/14/2019 15:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 25.0 | Level: (low/med) Low

Analysis Batch No.: 462948 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	42.9		4.8	0.47
108-87-2	Methylcyclohexane	43.1		4.8	0.73
75-09-2	Methylene Chloride	42.2		4.8	2.2
127-18-4	Tetrachloroethene	49.7		4.8	0.65
108-88-3	Toluene	43.5		4.8	0.36
156-60-5	trans-1,2-Dichloroethene	46.2		4.8	0.50
10061-02-6	trans-1,3-Dichloropropene	41.2		4.8	2.1
79-01-6	Trichloroethene	49.5		4.8	1.1
75-69-4	Trichlorofluoromethane	46.9		4.8	0.46
75-01-4	Vinyl chloride	45.8		4.8	0.59
1330-20-7	Xylenes, Total	85.9		9.6	0.81
10061-01-5	cis-1,3-Dichloropropene	43.5		4.8	0.69
100-42-5	Styrene	41.6		4.8	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		64-126
460-00-4	4-Bromofluorobenzene (Surr)	110		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9044.D
Lims ID: 480-150190-C-4-C MSD
Client ID: PDI-35-SO-14-031319
Sample Type: MSD
Inject. Date: 14-Mar-2019 15:51:30 ALS Bottle#: 7 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150190-C-4-C MSD
Misc. Info.: 480-0079374-014
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Mar-2019 18:02:12 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0340

First Level Reviewer: milligana Date: 14-Mar-2019 18:02:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	185807	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	394301	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.864	0.006	93	408553	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	94	230413	50.0	53.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.474	0.000	98	140164	50.0	50.7	
$ 5 Toluene-d8 (Surr)	98	7.129	7.123	0.006	92	942500	50.0	50.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.781	9.775	0.006	97	343164	50.0	54.9	
10 Dichlorodifluoromethane	85	2.122	2.122	0.000	99	194645	50.0	44.1	
12 Chloromethane	50	2.329	2.323	0.006	99	215520	50.0	43.8	
13 Vinyl chloride	62	2.420	2.420	0.000	98	212620	50.0	47.6	
14 Bromomethane	94	2.743	2.737	0.006	90	137816	50.0	52.9	
15 Chloroethane	64	2.810	2.804	0.006	99	117388	50.0	47.2	
17 Trichlorofluoromethane	101	3.004	2.998	0.006	99	293294	50.0	48.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.394	0.006	91	185575	50.0	46.3	
22 1,1-Dichloroethene	96	3.430	3.424	0.006	98	196549	50.0	46.1	
23 Acetone	43	3.460	3.461	-0.001	100	349675	250.0	171.9	
26 Carbon disulfide	76	3.655	3.649	0.006	99	627186	50.0	43.6	
27 Methyl acetate	43	3.698	3.686	0.012	98	377517	100.0	67.3	
30 Methylene Chloride	84	3.813	3.808	0.005	94	248050	50.0	43.7	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	95	701231	50.0	44.5	
34 trans-1,2-Dichloroethene	96	4.014	4.008	0.006	99	240547	50.0	48.0	
39 1,1-Dichloroethane	63	4.349	4.343	0.006	96	432906	50.0	46.9	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	587854	250.0	175.3	
45 cis-1,2-Dichloroethene	96	4.805	4.793	0.006	81	282287	50.0	49.1	
50 Chloroform	83	5.042	5.042	0.000	93	402714	50.0	47.3	
51 1,1,1-Trichloroethane	97	5.213	5.207	0.006	98	316426	50.0	46.1	
52 Cyclohexane	56	5.249	5.249	0.000	89	387082	50.0	41.6	
55 Carbon tetrachloride	117	5.346	5.341	0.005	95	291062	50.0	47.3	
57 Benzene	78	5.517	5.517	0.000	96	1003945	50.0	47.2	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	315698	50.0	45.2	
62 Trichloroethene	95	6.040	6.040	0.000	96	271747	50.0	51.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83	6.198	6.198	0.000	90	427302	50.0	44.7	
65 1,2-Dichloropropane	63	6.259	6.253	0.006	97	259359	50.0	46.4	
68 Dichlorobromomethane	83	6.490	6.490	0.000	100	307277	50.0	46.6	
72 cis-1,3-Dichloropropene	75	6.879	6.880	-0.001	97	403377	50.0	45.2	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	1173513	250.0	179.4	
74 Toluene	92	7.190	7.190	0.000	99	648957	50.0	45.1	
77 trans-1,3-Dichloropropene	75	7.397	7.391	0.006	97	379300	50.0	42.7	
79 1,1,2-Trichloroethane	83	7.591	7.585	0.006	91	184994	50.0	43.1	
81 Tetrachloroethene	166	7.725	7.725	0.000	98	326575	50.0	51.5	
80 2-Hexanone	43	7.774	7.768	0.006	94	892161	250.0	171.5	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	245382	50.0	45.1	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	226176	50.0	42.4	
87 Chlorobenzene	112	8.607	8.607	0.000	97	739108	50.0	45.8	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1173021	50.0	45.1	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	478222		44.8	
91 o-Xylene	106	9.222	9.222	0.000	95	443876		44.3	
92 Styrene	104	9.240	9.240	0.000	95	776577	50.0	43.1	
95 Bromoform	173	9.495	9.496	-0.001	99	170151	50.0	45.1	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1093950	50.0	40.8	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.909	0.006	95	272216	50.0	37.9	
111 1,3-Dichlorobenzene	146	10.809	10.810	-0.001	98	609657	50.0	43.6	
113 1,4-Dichlorobenzene	146	10.889	10.889	-0.001	95	619958	50.0	43.3	
116 1,2-Dichlorobenzene	146	11.229	11.230	0.000	99	550680	50.0	42.6	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	89	41341	50.0	29.0	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	382229	50.0	43.6	
S 124 Xylenes, Total	1				0			89.1	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

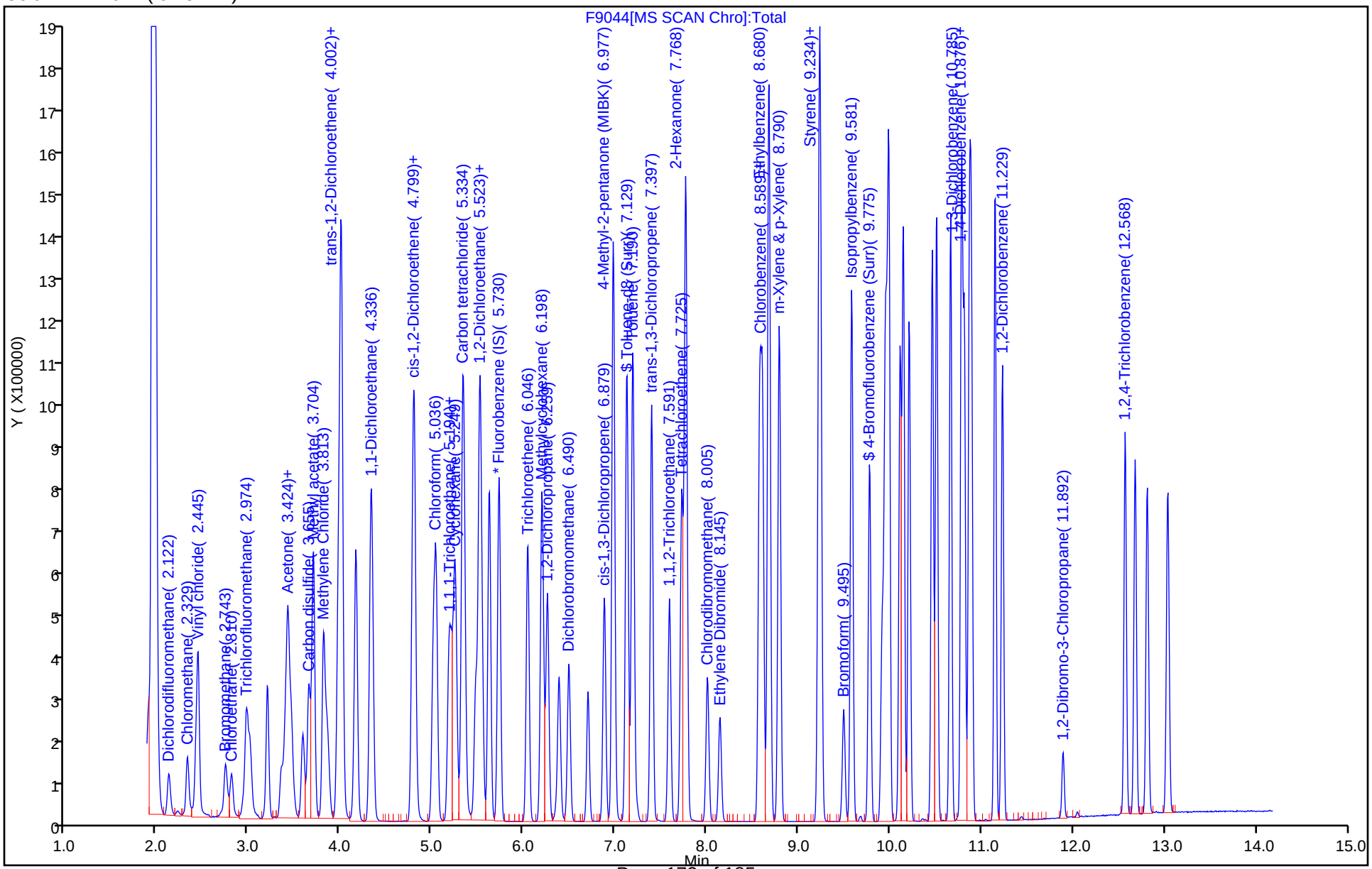
Report Date: 14-Mar-2019 18:02:48 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190314-79374.b\F9044.D

Injection Date:	14-Mar-2019 15:51:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150190-C-4-C MSD			Worklist Smp#:	14
Client ID:	PDI-35-SO-14-031319				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Instrument ID: HP5973F Start Date: 01/11/2019 10:24

Analysis Batch Number: 454682 End Date: 01/11/2019 19:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-454682/4		01/11/2019 10:24	1	F7811.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/6		01/11/2019 11:17	1	F7813.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/7		01/11/2019 11:43	1	F7814.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/8		01/11/2019 12:09	1	F7815.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/9		01/11/2019 12:35	1	F7816.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-454682/10		01/11/2019 13:01	1	F7817.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/11		01/11/2019 13:27	1	F7818.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/12		01/11/2019 13:52	1	F7819.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/14		01/11/2019 14:44	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/15		01/11/2019 15:10	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/16		01/11/2019 15:36	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/17		01/11/2019 16:01	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/18		01/11/2019 16:27	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/19		01/11/2019 16:53	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/20		01/11/2019 17:19	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-454682/22		01/11/2019 18:11	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-454682/23		01/11/2019 18:37	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-454682/24		01/11/2019 19:03	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-454682/25		01/11/2019 19:29	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Instrument ID: HP5973F Start Date: 03/14/2019 10:09

Analysis Batch Number: 462948 End Date: 03/14/2019 16:43

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-462948/2		03/14/2019 10:09	1	F9032.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-462948/3		03/14/2019 10:37	1	F9033.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-462948/4		03/14/2019 11:03	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-462943/1-A		03/14/2019 11:29	1	F9035.D	ZB-624 (30) VOA 0.25(mm)
RL 480-462948/6		03/14/2019 11:55	1		ZB-624 (30) VOA 0.25(mm)
MB 480-462943/2-A		03/14/2019 12:21	1	F9037.D	ZB-624 (30) VOA 0.25(mm)
480-150190-1		03/14/2019 13:16	1	F9038.D	ZB-624 (30) VOA 0.25(mm)
480-150190-2		03/14/2019 13:42	1	F9039.D	ZB-624 (30) VOA 0.25(mm)
480-150190-3		03/14/2019 14:08	1	F9040.D	ZB-624 (30) VOA 0.25(mm)
480-150190-4		03/14/2019 14:34	1	F9041.D	ZB-624 (30) VOA 0.25(mm)
480-150190-5		03/14/2019 15:00	1	F9042.D	ZB-624 (30) VOA 0.25(mm)
480-150190-4 MS		03/14/2019 15:26	1	F9043.D	ZB-624 (30) VOA 0.25(mm)
480-150190-4 MSD		03/14/2019 15:51	1	F9044.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/14/2019 16:43	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Batch Number: 462943 Batch Start Date: 03/14/19 09:13 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 03/14/19 12:13

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00148	GAS CORP mix 00331
LCS 480-462943/1		5035A_L, 8260C		25.11 g	30.11 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-462943/2		5035A_L, 8260C		25.01 g	30.01 g	5 g	5 mL		
480-150190-C-1	PDI-33-SO-13-031319	5035A_L, 8260C	T	35.51 g	42.15 g	6.64 g	5 mL		
480-150190-C-2	PDI-133-SO-13-031319	5035A_L, 8260C	T	35.28 g	41.92 g	6.64 g	5 mL		
480-150190-C-3	PDI-34-SO-15-031319	5035A_L, 8260C	T	35.30 g	42.48 g	7.18 g	5 mL		
480-150190-C-4	PDI-35-SO-14-031319	5035A_L, 8260C	T	35.26 g	42.10 g	6.84 g	5 mL		
480-150190-C-5	PDI-36-SO-13.5-031319	5035A_L, 8260C	T	35.28 g	42.20 g	6.92 g	5 mL		
480-150190-C-4 MS	PDI-35-SO-14-031319	5035A_L, 8260C	T	35.30 g	41.62 g	6.32 g	5 mL	2.5 uL	2.5 uL
480-150190-C-4 MSD	PDI-35-SO-14-031319	5035A_L, 8260C	T	35.46 g	42.38 g	6.92 g	5 mL	2.5 uL	2.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-462943/1		5035A_L, 8260C							
MB 480-462943/2		5035A_L, 8260C							
480-150190-C-1	PDI-33-SO-13-031319	5035A_L, 8260C	T	TC					
480-150190-C-2	PDI-133-SO-13-031319	5035A_L, 8260C	T	TC					
480-150190-C-3	PDI-34-SO-15-031319	5035A_L, 8260C	T	TC					
480-150190-C-4	PDI-35-SO-14-031319	5035A_L, 8260C	T	TC					
480-150190-C-5	PDI-36-SO-13.5-031319	5035A_L, 8260C	T	TC					
480-150190-C-4 MS	PDI-35-SO-14-031319	5035A_L, 8260C	T	TC client QC					
480-150190-C-4 MSD	PDI-35-SO-14-031319	5035A_L, 8260C	T	TC client QC					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Batch Number: 462943 Batch Start Date: 03/14/19 09:13 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 03/14/19 12:13

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00009

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150190-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-33-SO-13-031319	480-150190-1
PDI-133-SO-13-031319	480-150190-2
PDI-34-SO-15-031319	480-150190-3
PDI-35-SO-14-031319	480-150190-4
PDI-36-SO-13.5-031319	480-150190-5

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150190-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150190-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/15/2019 11:03 End Date: 03/15/2019 11:03

Lab Sample ID	D / F	Type	Time	Analytes																			
				% Sol	Moist																		
480-150190-1	1	T	11:03	X	X																		
480-150190-2	1	T	11:03	X	X																		
480-150190-3	1	T	11:03	X	X																		
480-150190-4	1	T	11:03	X	X																		
480-150190-4 MS	1	T	11:03	X	X																		
480-150190-4 MSD	1	T	11:03	X	X																		
480-150190-5	1	T	11:03	X	X																		
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				
ZZZZZZ			11:03																				

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150190-1

SDG No.:

Batch Number: 463201 Batch Start Date: 03/15/19 11:03 Batch Analyst: Cwiklinski, Charles D

Batch Method: Moisture Batch End Date: 03/16/19 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-150190-A-1	PDI-33-SO-13-031319	Moisture	T	4.27 g	13.34 g	11.35 g			
480-150190-A-2	PDI-133-SO-13-031319	Moisture	T	4.30 g	13.91 g	11.86 g			
480-150190-A-3	PDI-34-SO-15-031319	Moisture	T	4.36 g	14.92 g	12.51 g			
480-150190-A-4	PDI-35-SO-14-031319	Moisture	T	4.36 g	14.51 g	11.97 g			
480-150190-A-4 MS	PDI-35-SO-14-031319	Moisture	T	4.36 g	14.51 g	11.97 g			
480-150190-A-4 MSD	PDI-35-SO-14-031319	Moisture	T	4.36 g	14.51 g	11.97 g			
480-150190-A-5	PDI-36-SO-13.5-031319	Moisture	T	4.34 g	14.67 g	12.46 g			

Batch Notes	
Balance ID	b202613314
Batch Comment	pp-f-4a-18
Date samples were placed in the oven	03/15/2019
Oven Temp In	108 Degrees C
Time samples were place in the oven	11:20
Date samples were removed from oven	03/15/2019
Oven Temp Out	107 Degrees C
Time Samples were removed from oven	23:50
Oven ID	mv
Thermometer ID	mv
Temperature - Start - Uncorrected	108 Degrees C
Temperature - End - Uncorrected	107 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Albany #224

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. ESTRADA	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-126561-28670.2
Client Contact: Amy Picunas	Phone: 631-455-3701	E-Mail: becky.mason@testamericainc.com		
Company: CDM Smith, Inc.				
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STD			
State, Zip: NY, 12110				
Phone: 518-782-4526(Tel)	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

480-150190 Chain of Custody

Analysis Requested

D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F		
PDI-33-SO-13-031319	3/13/19	0800	G	Solid	N		X	4	
PDI-133-SO-13-031319	3/13/19	0815	G	Solid	N		X	4	
PDI-34-SO-15-031319	3/13/19	0900	G	Solid	N		X	4	
PDI-35-SO-~~15-031319~~14-031319	3/13/19	0945	G	SOLID	N	Y	X	12	
PDI-36-SO-13.5-031319	3/13/19	1015	G	SOLID	N		X	4	
MS	3/13/19								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IV

Special Instructions/QC Requirements: NYSDEC EPD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/13/19 1515			3/13/19 1515	TA
2		3/13/19 1800	TA		03/14/19 0100	
3						

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.4 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-150190-1

Login Number: 150190
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 3/14/18 1000
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-150190-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
3/20/2019 11:20:46 AM
Anthony Strollo, Project Management Assistant I
anthony.strollo@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 12
QC Sample Results 13
QC Association Summary 18
Lab Chronicle 19
Certification Summary 21
Method Summary 22
Sample Summary 23
Chain of Custody 24
Receipt Checklists 25

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

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

Job ID: 480-150190-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-150190-1

Comments
No additional comments.

Receipt
The samples were received on 3/14/2019 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA
Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 480-462943 and analytical batch 480-462948 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. The data has been qualified and reported.

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-33-SO-13-031319 — Lab Sample ID: 480-150190-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13	J	24	4.1	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	3.0	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.7	J	4.8	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-133-SO-13-031319 — Lab Sample ID: 480-150190-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.6	J	24	4.0	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.8	2.2	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.5	J	4.8	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-34-SO-15-031319 — Lab Sample ID: 480-150190-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	0.46	J	4.5	0.35	ug/Kg	1	☼	8260C	Total/NA
Acetone	5.5	J	23	3.8	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	6.1		4.5	0.58	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.1	J	4.5	2.1	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	19		4.5	0.61	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	19		4.5	0.99	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-35-SO-14-031319 — Lab Sample ID: 480-150190-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.1	J F1	24	4.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.75	J	4.9	0.62	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.4	J	4.9	2.2	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.6	J	4.9	0.65	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.7	J	4.9	1.1	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-36-SO-13.5-031319 — Lab Sample ID: 480-150190-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.9	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.6	2.1	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-33-SO-13-031319
Date Collected: 03/13/19 08:00
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-1
Matrix: Solid
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1,2-Trichloroethane	ND		4.8	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1-Dichloroethane	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichlorobenzene	ND		4.8	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,4-Dichlorobenzene	ND		4.8	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Acetone	**13**	**J**	24	4.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Benzene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Carbon tetrachloride	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chlorobenzene	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Dibromochloromethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
cis-1,2-Dichloroethene	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Cyclohexane	ND		4.8	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Bromodichloromethane	ND		4.8	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
1,2-Dibromoethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Isopropylbenzene	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Methylene Chloride	**3.0**	**J**	4.8	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Tetrachloroethene	ND		4.8	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Toluene	ND		4.8	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
trans-1,2-Dichloroethene	ND		4.8	0.50	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Trichloroethene	**2.7**	**J**	4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Trichlorofluoromethane	ND		4.8	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Vinyl chloride	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Xylenes, Total	ND		9.6	0.81	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1
Styrene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:16	1

Client Sample ID: PDI-33-SO-13-031319

Lab Sample ID: 480-150190-1
Date Collected: 03/13/19 08:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 126	03/14/19 10:00	03/14/19 13:16	1
4-Bromofluorobenzene (Surr)	103		72 - 126	03/14/19 10:00	03/14/19 13:16	1
Toluene-d8 (Surr)	102		71 - 125	03/14/19 10:00	03/14/19 13:16	1
Dibromofluoromethane (Surr)	107		60 - 140	03/14/19 10:00	03/14/19 13:16	1

Client Sample ID: PDI-133-SO-13-031319

Lab Sample ID: 480-150190-2
Date Collected: 03/13/19 08:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.8	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2,2-Tetrachloroethane	ND		4.8	0.78	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1,2-Trichloroethane	ND		4.8	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1-Dichloroethane	ND		4.8	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,1-Dichloroethene	ND		4.8	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2,4-Trichlorobenzene	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dibromo-3-Chloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichlorobenzene	ND		4.8	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichloroethane	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dichloropropane	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,3-Dichlorobenzene	ND		4.8	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,4-Dichlorobenzene	ND		4.8	0.67	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
2-Butanone (MEK)	ND		24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
4-Methyl-2-pentanone (MIBK)	ND		24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Acetone	**6.6**	**J**	24	4.0	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Benzene	ND		4.8	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromoform	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromomethane	ND		4.8	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Carbon disulfide	ND		4.8	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Carbon tetrachloride	ND		4.8	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chlorobenzene	ND		4.8	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Dibromochloromethane	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloroethane	ND		4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloroform	ND		4.8	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Chloromethane	ND		4.8	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
cis-1,2-Dichloroethene	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Cyclohexane	ND		4.8	0.67	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Bromodichloromethane	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Dichlorodifluoromethane	ND		4.8	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Ethylbenzene	ND		4.8	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
1,2-Dibromoethane	ND		4.8	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Isopropylbenzene	ND		4.8	0.72	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methyl tert-butyl ether	ND		4.8	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methylcyclohexane	ND		4.8	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Methylene Chloride	**2.6**	**J**	4.8	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Tetrachloroethene	ND		4.8	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1

Client Sample ID: PDI-133-SO-13-031319

Lab Sample ID: 480-150190-2
Date Collected: 03/13/19 08:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.8	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
trans-1,2-Dichloroethene	ND		4.8	0.49	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
trans-1,3-Dichloropropene	ND		4.8	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Trichloroethene	**2.5**	**J**	4.8	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Trichlorofluoromethane	ND		4.8	0.45	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Vinyl chloride	ND		4.8	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Xylenes, Total	ND		9.6	0.80	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
cis-1,3-Dichloropropene	ND		4.8	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1
Styrene	ND		4.8	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 13:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*64 - 126*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 13:42*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*03/14/19 10:00*	*03/14/19 13:42*	*1*

Client Sample ID: PDI-34-SO-15-031319

Lab Sample ID: 480-150190-3
Date Collected: 03/13/19 09:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 77.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1,2-Trichloroethane	ND		4.5	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichlorobenzene	**0.46**	**J**	4.5	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichloroethane	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dichloropropane	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Acetone	**5.5**	**J**	23	3.8	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Benzene	ND		4.5	0.22	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromoform	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromomethane	ND		4.5	0.41	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Carbon disulfide	ND		4.5	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Carbon tetrachloride	ND		4.5	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chlorobenzene	ND		4.5	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Dibromochloromethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
cis-1,2-Dichloroethene	**6.1**		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1

Client Sample ID: PDI-34-SO-15-031319

Lab Sample ID: 480-150190-3
Date Collected: 03/13/19 09:00
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 77.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
1,2-Dibromoethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Isopropylbenzene	ND		4.5	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methyl acetate	ND		23	2.7	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methylcyclohexane	ND		4.5	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Methylene Chloride	**2.1**	**J**	4.5	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Tetrachloroethene	**19**		4.5	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Toluene	ND		4.5	0.34	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
trans-1,2-Dichloroethene	ND		4.5	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Trichloroethene	**19**		4.5	0.99	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Trichlorofluoromethane	ND		4.5	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Xylenes, Total	ND		9.0	0.76	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
cis-1,3-Dichloropropene	ND		4.5	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1
Styrene	ND		4.5	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
4-Bromofluorobenzene (Surr)	*104*		*72 - 126*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 14:08*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 10:00*	*03/14/19 14:08*	*1*

Client Sample ID: PDI-35-SO-14-031319

Lab Sample ID: 480-150190-4
Date Collected: 03/13/19 09:45
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 75.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.9	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2,2-Tetrachloroethane	ND	F1	4.9	0.79	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1,2-Trichloroethane	ND		4.9	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1-Dichloroethane	ND		4.9	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,1-Dichloroethene	ND		4.9	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2,4-Trichlorobenzene	ND		4.9	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dibromo-3-Chloropropane	ND	F1	4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichlorobenzene	ND		4.9	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichloroethane	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dichloropropane	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,3-Dichlorobenzene	ND		4.9	0.25	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,4-Dichlorobenzene	ND		4.9	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
2-Butanone (MEK)	ND	F1	24	1.8	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
2-Hexanone	ND		24	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
4-Methyl-2-pentanone (MIBK)	ND	F1	24	1.6	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Acetone	**9.1**	**J F1**	24	4.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1

Client Sample ID: PDI-35-SO-14-031319

Lab Sample ID: 480-150190-4
Date Collected: 03/13/19 09:45
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 75.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromoform	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromomethane	ND		4.9	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Carbon disulfide	ND		4.9	2.4	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Carbon tetrachloride	ND		4.9	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chlorobenzene	ND		4.9	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Dibromochloromethane	ND		4.9	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloroethane	ND		4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloroform	ND		4.9	0.30	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Chloromethane	ND		4.9	0.29	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
cis-1,2-Dichloroethene	**0.75**	**J**	4.9	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Cyclohexane	ND		4.9	0.68	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Bromodichloromethane	ND		4.9	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Dichlorodifluoromethane	ND		4.9	0.40	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Ethylbenzene	ND		4.9	0.34	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
1,2-Dibromoethane	ND		4.9	0.63	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Isopropylbenzene	ND		4.9	0.74	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methyl acetate	ND		24	2.9	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methyl tert-butyl ether	ND		4.9	0.48	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methylcyclohexane	ND		4.9	0.74	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Methylene Chloride	**2.4**	**J**	4.9	2.2	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Tetrachloroethene	**1.6**	**J**	4.9	0.65	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Toluene	ND		4.9	0.37	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
trans-1,2-Dichloroethene	ND		4.9	0.50	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
trans-1,3-Dichloropropene	ND		4.9	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Trichloroethene	**2.7**	**J**	4.9	1.1	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Trichlorofluoromethane	ND		4.9	0.46	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Vinyl chloride	ND		4.9	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Xylenes, Total	ND		9.7	0.82	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
cis-1,3-Dichloropropene	ND		4.9	0.70	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1
Styrene	ND		4.9	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*64 - 126*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 10:00*	*03/14/19 14:34*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*03/14/19 10:00*	*03/14/19 14:34*	*1*

Client Sample ID: PDI-36-SO-13.5-031319

Lab Sample ID: 480-150190-5
Date Collected: 03/13/19 10:15
Matrix: Solid
Date Received: 03/14/19 01:00
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.6	0.33	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,1-Dichloroethene	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-36-SO-13.5-031319
Date Collected: 03/13/19 10:15
Date Received: 03/14/19 01:00

Lab Sample ID: 480-150190-5
Matrix: Solid
Percent Solids: 78.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,4-Dichlorobenzene	ND		4.6	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Acetone	**8.9**	**J**	23	3.9	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Benzene	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromomethane	ND		4.6	0.41	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Carbon tetrachloride	ND		4.6	0.44	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloroform	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
cis-1,2-Dichloroethene	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Cyclohexane	ND		4.6	0.64	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Isopropylbenzene	ND		4.6	0.69	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Methylene Chloride	**2.6**	**J**	4.6	2.1	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Tetrachloroethene	ND		4.6	0.62	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Toluene	ND		4.6	0.35	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
trans-1,2-Dichloroethene	ND		4.6	0.47	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Trichloroethene	ND		4.6	1.0	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Trichlorofluoromethane	ND		4.6	0.43	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Xylenes, Total	ND		9.2	0.77	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
cis-1,3-Dichloropropene	ND		4.6	0.66	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1
Styrene	ND		4.6	0.23	ug/Kg	☼	03/14/19 10:00	03/14/19 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 126*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 10:00*	*03/14/19 15:00*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 10:00*	*03/14/19 15:00*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-150190-1	PDI-33-SO-13-031319	111	103	102	107
480-150190-2	PDI-133-SO-13-031319	109	104	102	108
480-150190-3	PDI-34-SO-15-031319	111	104	102	110
480-150190-4	PDI-35-SO-14-031319	110	103	103	107
480-150190-4 MS	PDI-35-SO-14-031319	101	110	103	107
480-150190-4 MSD	PDI-35-SO-14-031319	101	110	101	107
480-150190-5	PDI-36-SO-13.5-031319	113	105	102	110
LCS 480-462943/1-A	Lab Control Sample	105	109	103	107
MB 480-462943/2-A	Method Blank	107	103	103	106

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-462943/2-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
2-Hexanone	ND		25	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Acetone	ND		25	4.2	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Benzene	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromoform	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloroform	ND		5.0	0.31	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methyl acetate	ND		25	3.0	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Toluene	ND		5.0	0.38	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/14/19 09:13	03/14/19 12:21	1
Styrene	ND		5.0	0.25	ug/Kg		03/14/19 09:13	03/14/19 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 09:13*	*03/14/19 12:21*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 140*	*03/14/19 09:13*	*03/14/19 12:21*	*1*

Lab Sample ID: LCS 480-462943/1-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.6		ug/Kg		103	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/Kg		93	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.6		ug/Kg		101	60 - 140
1,1,2-Trichloroethane	50.0	48.6		ug/Kg		97	78 - 122
1,1-Dichloroethane	50.0	50.9		ug/Kg		102	73 - 126
1,1-Dichloroethene	50.0	50.9		ug/Kg		102	59 - 125
1,2,4-Trichlorobenzene	50.0	45.9		ug/Kg		92	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	44.1		ug/Kg		88	63 - 124
1,2-Dichlorobenzene	50.0	45.3		ug/Kg		91	75 - 120
1,2-Dichloroethane	50.0	50.4		ug/Kg		101	77 - 122
1,2-Dichloropropane	50.0	50.1		ug/Kg		100	75 - 124
1,3-Dichlorobenzene	50.0	46.8		ug/Kg		94	74 - 120
1,4-Dichlorobenzene	50.0	45.9		ug/Kg		92	73 - 120
2-Butanone (MEK)	250	256		ug/Kg		102	70 - 134
2-Hexanone	250	239		ug/Kg		95	59 - 130
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		94	65 - 133
Acetone	250	274		ug/Kg		109	61 - 137
Benzene	50.0	51.7		ug/Kg		103	79 - 127
Bromoform	50.0	54.5		ug/Kg		109	68 - 126
Bromomethane	50.0	49.6		ug/Kg		99	37 - 149
Carbon disulfide	50.0	47.4		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	52.8		ug/Kg		106	75 - 135
Chlorobenzene	50.0	49.8		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	50.7		ug/Kg		101	76 - 125
Chloroethane	50.0	42.4		ug/Kg		85	69 - 135
Chloroform	50.0	51.6		ug/Kg		103	80 - 120
Chloromethane	50.0	44.1		ug/Kg		88	63 - 127
cis-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	81 - 120
Cyclohexane	50.0	46.1		ug/Kg		92	65 - 120
Bromodichloromethane	50.0	50.6		ug/Kg		101	80 - 122
Dichlorodifluoromethane	50.0	46.6		ug/Kg		93	57 - 142
Ethylbenzene	50.0	49.4		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	49.7		ug/Kg		99	78 - 120
Isopropylbenzene	50.0	45.3		ug/Kg		91	72 - 120
Methyl acetate	100	91.0		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	49.7		ug/Kg		99	63 - 125
Methylcyclohexane	50.0	49.1		ug/Kg		98	60 - 140
Methylene Chloride	50.0	45.3		ug/Kg		91	61 - 127
Tetrachloroethene	50.0	52.4		ug/Kg		105	74 - 122
Toluene	50.0	49.5		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	73 - 123
Trichloroethene	50.0	52.2		ug/Kg		104	77 - 129

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

Lab Sample ID: LCS 480-462943/1-A
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	46.7		ug/Kg		93	65 - 146
Vinyl chloride	50.0	47.9		ug/Kg		96	61 - 133
cis-1,3-Dichloropropene	50.0	49.9		ug/Kg		100	80 - 120
Styrene	50.0	48.0		ug/Kg		96	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*64 - 126*
4-Bromofluorobenzene (Surr)	*109*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Lab Sample ID: 480-150190-4 MS
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		52.8	51.4		ug/Kg	☼	97	77 - 121
1,1,2,2-Tetrachloroethane	ND	F1	52.8	37.8	F1	ug/Kg	☼	72	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		52.8	53.0		ug/Kg	☼	101	60 - 140
1,1,2-Trichloroethane	ND		52.8	44.5		ug/Kg	☼	84	78 - 122
1,1-Dichloroethane	ND		52.8	51.4		ug/Kg	☼	97	73 - 126
1,1-Dichloroethene	ND		52.8	50.6		ug/Kg	☼	96	59 - 125
1,2,4-Trichlorobenzene	ND		52.8	45.7		ug/Kg	☼	87	64 - 120
1,2-Dibromo-3-Chloropropane	ND	F1	52.8	26.2	F1	ug/Kg	☼	50	63 - 124
1,2-Dichlorobenzene	ND		52.8	45.5		ug/Kg	☼	86	75 - 120
1,2-Dichloroethane	ND		52.8	48.0		ug/Kg	☼	91	77 - 122
1,2-Dichloropropane	ND		52.8	50.2		ug/Kg	☼	95	75 - 124
1,3-Dichlorobenzene	ND		52.8	47.0		ug/Kg	☼	89	74 - 120
1,4-Dichlorobenzene	ND		52.8	46.7		ug/Kg	☼	88	73 - 120
2-Butanone (MEK)	ND	F1	264	160	F1	ug/Kg	☼	61	70 - 134
2-Hexanone	ND		264	157		ug/Kg	☼	59	59 - 130
4-Methyl-2-pentanone (MIBK)	ND	F1	264	169	F1	ug/Kg	☼	64	65 - 133
Acetone	9.1	J F1	264	155	F1	ug/Kg	☼	55	61 - 137
Benzene	ND		52.8	51.9		ug/Kg	☼	98	79 - 127
Bromoform	ND		52.8	45.0		ug/Kg	☼	85	68 - 126
Bromomethane	ND		52.8	60.8		ug/Kg	☼	115	37 - 149
Carbon disulfide	ND		52.8	49.3		ug/Kg	☼	93	64 - 131
Carbon tetrachloride	ND		52.8	52.9		ug/Kg	☼	100	75 - 135
Chlorobenzene	ND		52.8	50.5		ug/Kg	☼	96	76 - 124
Dibromochloromethane	ND		52.8	47.4		ug/Kg	☼	90	76 - 125
Chloroethane	ND		52.8	54.2		ug/Kg	☼	103	69 - 135
Chloroform	ND		52.8	51.8		ug/Kg	☼	98	80 - 120
Chloromethane	ND		52.8	51.4		ug/Kg	☼	97	63 - 127
cis-1,2-Dichloroethene	0.75	J	52.8	53.0		ug/Kg	☼	99	80 - 120
Cyclohexane	ND		52.8	47.5		ug/Kg	☼	90	65 - 120
Bromodichloromethane	ND		52.8	50.2		ug/Kg	☼	95	80 - 122
Dichlorodifluoromethane	ND		52.8	52.7		ug/Kg	☼	100	57 - 142

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

Lab Sample ID: 480-150190-4 MS
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		52.8	49.8		ug/Kg	☼	94	80 - 120
1,2-Dibromoethane	ND		52.8	43.2		ug/Kg	☼	82	78 - 120
Isopropylbenzene	ND		52.8	45.7		ug/Kg	☼	87	72 - 120
Methyl acetate	ND		106	62.8		ug/Kg	☼	60	55 - 136
Methyl tert-butyl ether	ND		52.8	44.8		ug/Kg	☼	85	63 - 125
Methylcyclohexane	ND		52.8	50.5		ug/Kg	☼	96	60 - 140
Methylene Chloride	2.4	J	52.8	47.1		ug/Kg	☼	85	61 - 127
Tetrachloroethene	1.6	J	52.8	55.8		ug/Kg	☼	103	74 - 122
Toluene	ND		52.8	49.9		ug/Kg	☼	95	74 - 128
trans-1,2-Dichloroethene	ND		52.8	52.8		ug/Kg	☼	100	78 - 126
trans-1,3-Dichloropropene	ND		52.8	44.7		ug/Kg	☼	85	73 - 123
Trichloroethene	2.7	J	52.8	54.0		ug/Kg	☼	97	77 - 129
Trichlorofluoromethane	ND		52.8	55.3		ug/Kg	☼	105	65 - 146
Vinyl chloride	ND		52.8	54.3		ug/Kg	☼	103	61 - 133
cis-1,3-Dichloropropene	ND		52.8	48.3		ug/Kg	☼	91	80 - 120
Styrene	ND		52.8	46.8		ug/Kg	☼	89	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*103*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

Lab Sample ID: 480-150190-4 MSD
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		48.2	44.5		ug/Kg	☼	92	77 - 121	14	30
1,1,2,2-Tetrachloroethane	ND	F1	48.2	36.5	F1	ug/Kg	☼	76	80 - 120	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		48.2	44.6		ug/Kg	☼	93	60 - 140	17	30
1,1,2-Trichloroethane	ND		48.2	41.5		ug/Kg	☼	86	78 - 122	7	30
1,1-Dichloroethane	ND		48.2	45.2		ug/Kg	☼	94	73 - 126	13	30
1,1-Dichloroethene	ND		48.2	44.4		ug/Kg	☼	92	59 - 125	13	30
1,2,4-Trichlorobenzene	ND		48.2	42.1		ug/Kg	☼	87	64 - 120	8	30
1,2-Dibromo-3-Chloropropane	ND	F1	48.2	27.9	F1	ug/Kg	☼	58	63 - 124	6	30
1,2-Dichlorobenzene	ND		48.2	41.0		ug/Kg	☼	85	75 - 120	10	30
1,2-Dichloroethane	ND		48.2	43.6		ug/Kg	☼	90	77 - 122	10	30
1,2-Dichloropropane	ND		48.2	44.7		ug/Kg	☼	93	75 - 124	12	30
1,3-Dichlorobenzene	ND		48.2	42.1		ug/Kg	☼	87	74 - 120	11	30
1,4-Dichlorobenzene	ND		48.2	41.8		ug/Kg	☼	87	73 - 120	11	30
2-Butanone (MEK)	ND	F1	241	169		ug/Kg	☼	70	70 - 134	5	30
2-Hexanone	ND		241	165		ug/Kg	☼	69	59 - 130	5	30
4-Methyl-2-pentanone (MIBK)	ND	F1	241	173		ug/Kg	☼	72	65 - 133	2	30
Acetone	9.1	J F1	241	166		ug/Kg	☼	65	61 - 137	7	30
Benzene	ND		48.2	45.5		ug/Kg	☼	94	79 - 127	13	30
Bromoform	ND		48.2	43.4		ug/Kg	☼	90	68 - 126	3	30

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

Lab Sample ID: 480-150190-4 MSD
Matrix: Solid
Analysis Batch: 462948

Client Sample ID: PDI-35-SO-14-031319
Prep Type: Total/NA
Prep Batch: 462943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		48.2	51.0		ug/Kg	☼	106	37 - 149	18	30
Carbon disulfide	ND		48.2	42.0		ug/Kg	☼	87	64 - 131	16	30
Carbon tetrachloride	ND		48.2	45.6		ug/Kg	☼	95	75 - 135	15	30
Chlorobenzene	ND		48.2	44.1		ug/Kg	☼	92	76 - 124	13	30
Dibromochloromethane	ND		48.2	43.4		ug/Kg	☼	90	76 - 125	9	30
Chloroethane	ND		48.2	45.5		ug/Kg	☼	94	69 - 135	17	30
Chloroform	ND		48.2	45.6		ug/Kg	☼	95	80 - 120	13	30
Chloromethane	ND		48.2	42.2		ug/Kg	☼	88	63 - 127	20	30
cis-1,2-Dichloroethene	0.75	J	48.2	47.3		ug/Kg	☼	97	80 - 120	11	30
Cyclohexane	ND		48.2	40.1		ug/Kg	☼	83	65 - 120	17	30
Bromodichloromethane	ND		48.2	44.9		ug/Kg	☼	93	80 - 122	11	30
Dichlorodifluoromethane	ND		48.2	42.5		ug/Kg	☼	88	57 - 142	21	30
Ethylbenzene	ND		48.2	43.5		ug/Kg	☼	90	80 - 120	14	30
1,2-Dibromoethane	ND		48.2	40.9		ug/Kg	☼	85	78 - 120	5	30
Isopropylbenzene	ND		48.2	39.3		ug/Kg	☼	82	72 - 120	15	30
Methyl acetate	ND		96.4	64.9		ug/Kg	☼	67	55 - 136	3	30
Methyl tert-butyl ether	ND		48.2	42.9		ug/Kg	☼	89	63 - 125	4	30
Methylcyclohexane	ND		48.2	43.1		ug/Kg	☼	89	60 - 140	16	30
Methylene Chloride	2.4	J	48.2	42.2		ug/Kg	☼	82	61 - 127	11	30
Tetrachloroethene	1.6	J	48.2	49.7		ug/Kg	☼	100	74 - 122	12	30
Toluene	ND		48.2	43.5		ug/Kg	☼	90	74 - 128	14	30
trans-1,2-Dichloroethene	ND		48.2	46.2		ug/Kg	☼	96	78 - 126	13	30
trans-1,3-Dichloropropene	ND		48.2	41.2		ug/Kg	☼	85	73 - 123	8	30
Trichloroethene	2.7	J	48.2	49.5		ug/Kg	☼	97	77 - 129	9	30
Trichlorofluoromethane	ND		48.2	46.9		ug/Kg	☼	97	65 - 146	17	30
Vinyl chloride	ND		48.2	45.8		ug/Kg	☼	95	61 - 133	17	30
cis-1,3-Dichloropropene	ND		48.2	43.5		ug/Kg	☼	90	80 - 120	10	30
Styrene	ND		48.2	41.6		ug/Kg	☼	86	80 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*107*		*60 - 140*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

GC/MS VOA

Prep Batch: 462943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	5035A_L	
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	5035A_L	
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	5035A_L	
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	5035A_L	
MB 480-462943/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-462943/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	5035A_L	

Analysis Batch: 462948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	8260C	462943
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	8260C	462943
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	8260C	462943
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	8260C	462943
MB 480-462943/2-A	Method Blank	Total/NA	Solid	8260C	462943
LCS 480-462943/1-A	Lab Control Sample	Total/NA	Solid	8260C	462943
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	8260C	462943

General Chemistry

Analysis Batch: 463201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150190-1	PDI-33-SO-13-031319	Total/NA	Solid	Moisture	
480-150190-2	PDI-133-SO-13-031319	Total/NA	Solid	Moisture	
480-150190-3	PDI-34-SO-15-031319	Total/NA	Solid	Moisture	
480-150190-4	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	
480-150190-5	PDI-36-SO-13.5-031319	Total/NA	Solid	Moisture	
480-150190-4 MS	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	
480-150190-4 MSD	PDI-35-SO-14-031319	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-33-SO-13-031319 — Lab Sample ID: 480-150190-1

Date Collected: 03/13/19 08:00 — **Matrix: Solid**
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-33-SO-13-031319 — Lab Sample ID: 480-150190-1

Date Collected: 03/13/19 08:00 — **Matrix: Solid**
Date Received: 03/14/19 01:00 — **Percent Solids: 78.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 13:16	AEM	TAL BUF

Client Sample ID: PDI-133-SO-13-031319 — Lab Sample ID: 480-150190-2

Date Collected: 03/13/19 08:15 — **Matrix: Solid**
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-133-SO-13-031319 — Lab Sample ID: 480-150190-2

Date Collected: 03/13/19 08:15 — **Matrix: Solid**
Date Received: 03/14/19 01:00 — **Percent Solids: 78.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 13:42	AEM	TAL BUF

Client Sample ID: PDI-34-SO-15-031319 — Lab Sample ID: 480-150190-3

Date Collected: 03/13/19 09:00 — **Matrix: Solid**
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-34-SO-15-031319 — Lab Sample ID: 480-150190-3

Date Collected: 03/13/19 09:00 — **Matrix: Solid**
Date Received: 03/14/19 01:00 — **Percent Solids: 77.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 14:08	AEM	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Client Sample ID: PDI-35-SO-14-031319 — Lab Sample ID: 480-150190-4

Date Collected: 03/13/19 09:45 — **Matrix: Solid**
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-35-SO-14-031319 — Lab Sample ID: 480-150190-4

Date Collected: 03/13/19 09:45 — **Matrix: Solid**
Date Received: 03/14/19 01:00 — **Percent Solids: 75.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 14:34	AEM	TAL BUF

Client Sample ID: PDI-36-SO-13.5-031319 — Lab Sample ID: 480-150190-5

Date Collected: 03/13/19 10:15 — **Matrix: Solid**
Date Received: 03/14/19 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-36-SO-13.5-031319 — Lab Sample ID: 480-150190-5

Date Collected: 03/13/19 10:15 — **Matrix: Solid**
Date Received: 03/14/19 01:00 — **Percent Solids: 78.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			462943	03/14/19 10:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	462948	03/14/19 15:00	AEM	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150190-1	PDI-33-SO-13-031319	Solid	03/13/19 08:00	03/14/19 01:00
480-150190-2	PDI-133-SO-13-031319	Solid	03/13/19 08:15	03/14/19 01:00
480-150190-3	PDI-34-SO-15-031319	Solid	03/13/19 09:00	03/14/19 01:00
480-150190-4	PDI-35-SO-14-031319	Solid	03/13/19 09:45	03/14/19 01:00
480-150190-5	PDI-36-SO-13.5-031319	Solid	03/13/19 10:15	03/14/19 01:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Albany #224

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. ESTRADA	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-126561-28670.2
Client Contact: Amy Picunas	Phone: 631-455-3701	E-Mail: becky.mason@testamericainc.com		
Company: CDM Smith, Inc.			Analysis Requested	
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): STD			
State, Zip: NY, 12110				
Phone: 518-782-4526(Tel)	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

480-150190 Chain of Custody

D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify); Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F		
PDI-33-SO-13-031319	3/13/19	0800	G	Solid	N		X	4	
PDI-133-SO-13-031319	3/13/19	0815	G	Solid	N		X	4	
PDI-34-SO-15-031319	3/13/19	0900	G	Solid	N		X	4	
PDI-35-SO-~~15-031319~~ 14-031319	3/13/19	0945	G	SOLID	N	Y	X	12	
PDI-36-SO-13.5-031319	3/13/19	1015	G	SOLID	N		X	4	
RZ	3/13/19								

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IV

Special Instructions/QC Requirements: NYSDEC EPD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/13/19 1515			3/13/19 1515	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	3/13/19 1800	TA		03/14/19 0190	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.4 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-150190-1

Login Number: 150190
List Number: 1
Creator: Wallace, Cameron

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 3/14/18 1000
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 480-150235-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Anthony R Strollo
Project Management Assistant I
3/22/2019 11:51 AM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
03/22/2019

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 17

QC Sample Results 18

Definitions 24

QC Association 25

Chronicle 26

Certification Summary 29

Organic Sample Data 30

GC/MS VOA 30

Method 8260C 30

Method 8260C QC Summary 31

Method 8260C Sample Data 46

Standards Data 106

Method 8260C ICAL Data 106

Method 8260C CCAL Data 157

Raw QC Data 171

Method 8260C Tune Data 171

Method 8260C Blank Data 180

Method 8260C LCS/LCSD Data 195

Method 8260C Run Logs 213

Table of Contents

Method 8260C Prep Data 216

Inorganic Sample Data 219

General Chemistry Data 219

Gen Chem Cover Page 220

Gen Chem MDL 221

Gen Chem Analysis Run Log 223

Gen Chem Prep Data 224

Shipping and Receiving Documents 225

Client Chain of Custody 226

Sample Receipt Checklist 227

Job Narrative
480-150235-1

Comments
No additional comments.

Receipt
The samples were received on 3/14/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-463385 recovered above the upper control limit for 2-Butanone (MEK). The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported. The following sample is impacted: PDI-27-50-17.5-031219 (480-150235-3).

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150235-1	PDI-26-50-17.5-031219	Solid	03/12/19 08:30	03/14/19 10:00
480-150235-2	PDI-29-50-17.5-031219	Solid	03/12/19 09:15	03/14/19 10:00
480-150235-3	PDI-27-50-17.5-031219	Solid	03/12/19 09:45	03/14/19 10:00
480-150235-4	PDI-30-50-17.5-031219	Solid	03/12/19 10:30	03/14/19 10:00
480-150235-5	PDI-31-50-17.5-031219	Solid	03/12/19 11:00	03/14/19 10:00
480-150235-6	PDI-32-50-16-031219	Solid	03/12/19 11:30	03/14/19 10:00
480-150235-7	PDI-28-50-16-031219	Solid	03/12/19 12:15	03/14/19 10:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-26-50-17.5-031219 — Lab Sample ID: 480-150235-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.34	J	4.6	0.34	ug/Kg	1	☼	8260C	Total/NA
Acetone	5.2	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	4.4	J	4.6	0.59	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5	J	4.6	0.62	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		4.6	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-29-50-17.5-031219 — Lab Sample ID: 480-150235-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	22	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	9.8		4.5	0.98	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-27-50-17.5-031219 — Lab Sample ID: 480-150235-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.9	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.9	J B	4.4	2.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-30-50-17.5-031219 — Lab Sample ID: 480-150235-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.39	J	4.7	0.34	ug/Kg	1	☼	8260C	Total/NA
Acetone	13	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	4.9		4.7	0.60	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.7	2.2	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5	J	4.7	0.63	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		4.7	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-31-50-17.5-031219 — Lab Sample ID: 480-150235-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.3	J	25	4.3	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	3.7	J	5.1	0.65	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	5.1	2.3	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	21		5.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Vinyl chloride	0.71	J	5.1	0.62	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-32-50-16-031219 — Lab Sample ID: 480-150235-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	21	3.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.2	J	4.2	1.9	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-28-50-16-031219 — Lab Sample ID: 480-150235-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J	22	3.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.3	J	4.3	2.0	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.3	J	4.3	0.95	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Client Sample ID: PDI-26-50-17.5-031219

Date Collected: 03/12/19 08:30
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-1

Matrix: Solid
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.34**	**J**	4.6	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1-Dichloroethene	ND		4.6	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,4-Dichlorobenzene	ND		4.6	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Acetone	**5.2**	**J**	23	3.9	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Benzene	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromomethane	ND		4.6	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Carbon tetrachloride	ND		4.6	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloroform	ND		4.6	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
cis-1,2-Dichloroethene	**4.4**	**J**	4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Cyclohexane	ND		4.6	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Isopropylbenzene	ND		4.6	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Tetrachloroethene	**1.5**	**J**	4.6	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Toluene	ND		4.6	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
trans-1,2-Dichloroethene	ND		4.6	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Trichloroethene	**29**		4.6	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Xylenes, Total	ND		9.3	0.78	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
cis-1,3-Dichloropropene	ND		4.6	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Styrene	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1

Client Sample ID: PDI-26-50-17.5-031219

Lab Sample ID: 480-150235-1

Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.8

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 126*	*03/14/19 08:00*	*03/15/19 17:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*03/14/19 08:00*	*03/15/19 17:29*	*1*
Toluene-d8 (Surr)	*101*		*71 - 125*	*03/14/19 08:00*	*03/15/19 17:29*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 140*	*03/14/19 08:00*	*03/15/19 17:29*	*1*

Client Sample ID: PDI-29-50-17.5-031219

Lab Sample ID: 480-150235-2

Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2-Trichloroethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichloroethane	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichloropropane	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Acetone	**3.9**	**J**	22	3.8	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Benzene	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromoform	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromomethane	ND		4.5	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Carbon disulfide	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Carbon tetrachloride	ND		4.5	0.43	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Dibromochloromethane	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
cis-1,2-Dichloroethene	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dibromoethane	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Isopropylbenzene	ND		4.5	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1

Client Sample ID: PDI-29-50-17.5-031219

Date Collected: 03/12/19 09:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-2

Matrix: Solid
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.5	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Trichloroethene	**9.8**		4.5	0.98	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Trichlorofluoromethane	ND		4.5	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Xylenes, Total	ND		8.9	0.75	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
cis-1,3-Dichloropropene	ND		4.5	0.64	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Styrene	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*03/14/19 08:00*	*03/15/19 17:55*	*1*

Client Sample ID: PDI-27-50-17.5-031219

Date Collected: 03/12/19 09:45
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-3

Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,4-Dichlorobenzene	ND		4.4	0.62	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Acetone	**4.9**	**J**	22	3.7	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Benzene	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromomethane	ND		4.4	0.40	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Carbon tetrachloride	ND		4.4	0.43	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloroethane	ND		4.4	1.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1

Client Sample ID: PDI-27-50-17.5-031219 — Lab Sample ID: 480-150235-3

Date Collected: 03/12/19 09:45 — **Matrix: Solid**
Date Received: 03/14/19 10:00 — **Percent Solids: 79.8**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.4	0.62	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Ethylbenzene	ND		4.4	0.30	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dibromoethane	ND		4.4	0.57	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methylcyclohexane	ND		4.4	0.67	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methylene Chloride	**2.9**	**J B**	4.4	2.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Toluene	ND		4.4	0.33	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Xylenes, Total	ND		8.8	0.74	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Styrene	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 126*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 08:00*	*03/18/19 12:07*	*1*

Client Sample ID: PDI-30-50-17.5-031219 — Lab Sample ID: 480-150235-4

Date Collected: 03/12/19 10:30 — **Matrix: Solid**
Date Received: 03/14/19 10:00 — **Percent Solids: 75.9**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.39**	**J**	4.7	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichloroethane	ND		4.7	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,4-Dichlorobenzene	ND		4.7	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Acetone	**13**	**J**	23	3.9	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1

Client Sample ID: PDI-30-50-17.5-031219

Date Collected: 03/12/19 10:30
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-4

Matrix: Solid
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
cis-1,2-Dichloroethene	**4.9**		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Cyclohexane	ND		4.7	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methylene Chloride	**2.6**	**J**	4.7	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Tetrachloroethene	**1.5**	**J**	4.7	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Toluene	ND		4.7	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Trichloroethene	**29**		4.7	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Styrene	ND		4.7	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*03/14/19 08:00*	*03/15/19 18:48*	*1*

Client Sample ID: PDI-31-50-17.5-031219

Date Collected: 03/12/19 11:00
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-5

Matrix: Solid
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2-Trichloroethane	ND		5.1	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1-Dichloroethane	ND		5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1-Dichloroethene	ND		5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1

Client Sample ID: PDI-31-50-17.5-031219
Date Collected: 03/12/19 11:00
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-5
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichloropropane	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,4-Dichlorobenzene	ND		5.1	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
2-Butanone (MEK)	ND		25	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Acetone	**8.3**	**J**	25	4.3	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Benzene	ND		5.1	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromoform	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Carbon disulfide	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Carbon tetrachloride	ND		5.1	0.49	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chlorobenzene	ND		5.1	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Dibromochloromethane	ND		5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloroethane	ND		5.1	1.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloroform	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
cis-1,2-Dichloroethene	**3.7**	**J**	5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Cyclohexane	ND		5.1	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromodichloromethane	ND		5.1	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dibromoethane	ND		5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methyl acetate	ND		25	3.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methylcyclohexane	ND		5.1	0.77	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methylene Chloride	**2.6**	**J**	5.1	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Tetrachloroethene	ND		5.1	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Toluene	ND		5.1	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
trans-1,3-Dichloropropene	ND		5.1	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Trichloroethene	**21**		5.1	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Trichlorofluoromethane	ND		5.1	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Vinyl chloride	**0.71**	**J**	5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Xylenes, Total	ND		10	0.86	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
cis-1,3-Dichloropropene	ND		5.1	0.73	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Styrene	ND		5.1	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 126*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*03/14/19 08:00*	*03/15/19 19:14*	*1*

Client Sample ID: PDI-32-50-16-031219

Date Collected: 03/12/19 11:30
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-6

Matrix: Solid
Percent Solids: 77.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.2	0.30	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2,2-Tetrachloroethane	ND		4.2	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2	0.96	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2-Trichloroethane	ND		4.2	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1-Dichloroethane	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1-Dichloroethene	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2,4-Trichlorobenzene	ND		4.2	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dibromo-3-Chloropropane	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichlorobenzene	ND		4.2	0.33	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichloroethane	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichloropropane	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,3-Dichlorobenzene	ND		4.2	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,4-Dichlorobenzene	ND		4.2	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
2-Butanone (MEK)	ND		21	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
2-Hexanone	ND		21	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		21	1.4	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Acetone	**5.6**	**J**	21	3.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Benzene	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromoform	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromomethane	ND		4.2	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Carbon disulfide	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Carbon tetrachloride	ND		4.2	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chlorobenzene	ND		4.2	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Dibromochloromethane	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloroethane	ND		4.2	0.95	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloroform	ND		4.2	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloromethane	ND		4.2	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
cis-1,2-Dichloroethene	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Cyclohexane	ND		4.2	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromodichloromethane	ND		4.2	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Dichlorodifluoromethane	ND		4.2	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Ethylbenzene	ND		4.2	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dibromoethane	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Isopropylbenzene	ND		4.2	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methyl acetate	ND		21	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methyl tert-butyl ether	ND		4.2	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methylcyclohexane	ND		4.2	0.64	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methylene Chloride	**2.2**	**J**	4.2	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Tetrachloroethene	ND		4.2	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Toluene	ND		4.2	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
trans-1,2-Dichloroethene	ND		4.2	0.43	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
trans-1,3-Dichloropropene	ND		4.2	1.8	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Trichloroethene	ND		4.2	0.92	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Trichlorofluoromethane	ND		4.2	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Vinyl chloride	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Xylenes, Total	ND		8.4	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
cis-1,3-Dichloropropene	ND		4.2	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Styrene	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1

Client Sample ID: PDI-32-50-16-031219

Lab Sample ID: 480-150235-6

Date Collected: 03/12/19 11:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 08:00*	*03/15/19 19:40*	*1*

Client Sample ID: PDI-28-50-16-031219

Lab Sample ID: 480-150235-7

Date Collected: 03/12/19 12:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2-Trichloroethane	ND		4.3	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1-Dichloroethane	ND		4.3	0.52	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1-Dichloroethene	ND		4.3	0.53	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2,4-Trichlorobenzene	ND		4.3	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dibromo-3-Chloropropane	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichlorobenzene	ND		4.3	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichloroethane	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichloropropane	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,3-Dichlorobenzene	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,4-Dichlorobenzene	ND		4.3	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Acetone	**7.0**	**J**	22	3.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Benzene	ND		4.3	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromoform	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromomethane	ND		4.3	0.39	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Carbon disulfide	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Carbon tetrachloride	ND		4.3	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chlorobenzene	ND		4.3	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Dibromochloromethane	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloroethane	ND		4.3	0.97	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloroform	ND		4.3	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloromethane	ND		4.3	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
cis-1,2-Dichloroethene	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Cyclohexane	ND		4.3	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromodichloromethane	ND		4.3	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Dichlorodifluoromethane	ND		4.3	0.36	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Ethylbenzene	ND		4.3	0.30	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dibromoethane	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Isopropylbenzene	ND		4.3	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methyl tert-butyl ether	ND		4.3	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methylcyclohexane	ND		4.3	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methylene Chloride	**2.3**	**J**	4.3	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Tetrachloroethene	ND		4.3	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.3	0.33	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
trans-1,2-Dichloroethene	ND		4.3	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
trans-1,3-Dichloropropene	ND		4.3	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Trichloroethene	**2.3**	**J**	4.3	0.95	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Trichlorofluoromethane	ND		4.3	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Vinyl chloride	ND		4.3	0.52	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Xylenes, Total	ND		8.6	0.72	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
cis-1,3-Dichloropropene	ND		4.3	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Styrene	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 126*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*03/14/19 08:00*	*03/15/19 20:06*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-150235-1	PDI-26-50-17.5-031219	114	101	101	108
480-150235-2	PDI-29-50-17.5-031219	111	102	102	107
480-150235-3	PDI-27-50-17.5-031219	112	103	102	110
480-150235-4	PDI-30-50-17.5-031219	113	102	103	109
480-150235-5	PDI-31-50-17.5-031219	114	101	103	111
480-150235-6	PDI-32-50-16-031219	113	101	103	110
480-150235-7	PDI-28-50-16-031219	112	102	103	109
LCS 480-463180/1-A	Lab Control Sample	106	110	102	106
LCS 480-463418/1-A	Lab Control Sample	106	110	101	106
LCSD 480-463180/3-A	Lab Control Sample Dup	107	111	102	106
MB 480-463180/2-A	Method Blank	106	103	102	104
MB 480-463418/2-A	Method Blank	106	102	102	105

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-463180/2-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
2-Hexanone	ND		25	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Acetone	ND		25	4.2	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Benzene	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromoform	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloroform	ND		5.0	0.31	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methyl acetate	ND		25	3.0	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Toluene	ND		5.0	0.38	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Styrene	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*03/15/19 08:56*	*03/15/19 10:54*	*1*

Lab Sample ID: LCS 480-463180/1-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.0		ug/Kg		104	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/Kg		105	60 - 140
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	52.2		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	52.0		ug/Kg		104	59 - 125
1,2,4-Trichlorobenzene	50.0	46.4		ug/Kg		93	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	38.6		ug/Kg		77	63 - 124
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	75 - 120
1,2-Dichloroethane	50.0	52.0		ug/Kg		104	77 - 122
1,2-Dichloropropane	50.0	51.9		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	73 - 120
2-Butanone (MEK)	250	255		ug/Kg		102	70 - 134
2-Hexanone	250	235		ug/Kg		94	59 - 130
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		94	65 - 133
Acetone	250	273		ug/Kg		109	61 - 137
Benzene	50.0	52.7		ug/Kg		105	79 - 127
Bromoform	50.0	54.0		ug/Kg		108	68 - 126
Bromomethane	50.0	55.5		ug/Kg		111	37 - 149
Carbon disulfide	50.0	50.3		ug/Kg		101	64 - 131
Carbon tetrachloride	50.0	53.5		ug/Kg		107	75 - 135
Chlorobenzene	50.0	50.1		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	51.0		ug/Kg		102	76 - 125
Chloroethane	50.0	51.1		ug/Kg		102	69 - 135
Chloroform	50.0	52.4		ug/Kg		105	80 - 120
Chloromethane	50.0	49.0		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	81 - 120
Cyclohexane	50.0	48.3		ug/Kg		97	65 - 120
Bromodichloromethane	50.0	51.5		ug/Kg		103	80 - 122
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	57 - 142
Ethylbenzene	50.0	49.7		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	45.8		ug/Kg		92	72 - 120
Methyl acetate	100	90.9		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	63 - 125
Methylcyclohexane	50.0	50.0		ug/Kg		100	60 - 140
Methylene Chloride	50.0	46.8		ug/Kg		94	61 - 127
Tetrachloroethene	50.0	53.2		ug/Kg		106	74 - 122
Toluene	50.0	49.7		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	73 - 123
Trichloroethene	50.0	51.7		ug/Kg		103	77 - 129

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

Lab Sample ID: LCS 480-463180/1-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	50.0	52.0		ug/Kg		104	65 - 146
Vinyl chloride	50.0	53.3		ug/Kg		107	61 - 133
cis-1,3-Dichloropropene	50.0	50.9		ug/Kg		102	80 - 120
Styrene	50.0	46.8		ug/Kg		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: LCSD 480-463180/3-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463180

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.7		ug/Kg		105	77 - 121	1	20
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/Kg		95	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2		ug/Kg		104	60 - 140	1	20
1,1,2-Trichloroethane	50.0	49.6		ug/Kg		99	78 - 122	1	20
1,1-Dichloroethane	50.0	52.5		ug/Kg		105	73 - 126	1	20
1,1-Dichloroethene	50.0	51.4		ug/Kg		103	59 - 125	1	20
1,2,4-Trichlorobenzene	50.0	47.7		ug/Kg		95	64 - 120	3	20
1,2-Dibromo-3-Chloropropane	50.0	39.9		ug/Kg		80	63 - 124	3	20
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	75 - 120	0	20
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	77 - 122	2	20
1,2-Dichloropropane	50.0	51.3		ug/Kg		103	75 - 124	1	20
1,3-Dichlorobenzene	50.0	48.0		ug/Kg		96	74 - 120	1	20
1,4-Dichlorobenzene	50.0	47.9		ug/Kg		96	73 - 120	2	20
2-Butanone (MEK)	250	264		ug/Kg		106	70 - 134	4	20
2-Hexanone	250	248		ug/Kg		99	59 - 130	6	20
4-Methyl-2-pentanone (MIBK)	250	241		ug/Kg		96	65 - 133	3	20
Acetone	250	283		ug/Kg		113	61 - 137	4	20
Benzene	50.0	52.6		ug/Kg		105	79 - 127	0	20
Bromoform	50.0	54.0		ug/Kg		108	68 - 126	0	20
Bromomethane	50.0	50.3		ug/Kg		101	37 - 149	10	20
Carbon disulfide	50.0	48.6		ug/Kg		97	64 - 131	3	20
Carbon tetrachloride	50.0	53.9		ug/Kg		108	75 - 135	1	20
Chlorobenzene	50.0	50.5		ug/Kg		101	76 - 124	1	20
Dibromochloromethane	50.0	50.3		ug/Kg		101	76 - 125	1	20
Chloroethane	50.0	44.4		ug/Kg		89	69 - 135	14	20
Chloroform	50.0	52.4		ug/Kg		105	80 - 120	0	20
Chloromethane	50.0	47.2		ug/Kg		94	63 - 127	4	20
cis-1,2-Dichloroethene	50.0	52.9		ug/Kg		106	81 - 120	0	20
Cyclohexane	50.0	48.4		ug/Kg		97	65 - 120	0	20
Bromodichloromethane	50.0	50.8		ug/Kg		102	80 - 122	1	20
Dichlorodifluoromethane	50.0	46.7		ug/Kg		93	57 - 142	4	20

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

Lab Sample ID: LCSD 480-463180/3-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	50.1		ug/Kg		100	80 - 120	1	20
1,2-Dibromoethane			50.0	49.8		ug/Kg		100	78 - 120	1	20
Isopropylbenzene			50.0	45.7		ug/Kg		91	72 - 120	0	20
Methyl acetate			100	94.5		ug/Kg		95	55 - 136	4	20
Methyl tert-butyl ether			50.0	49.8		ug/Kg		100	63 - 125	1	20
Methylcyclohexane			50.0	50.5		ug/Kg		101	60 - 140	1	20
Methylene Chloride			50.0	46.7		ug/Kg		93	61 - 127	0	20
Tetrachloroethene			50.0	54.0		ug/Kg		108	74 - 122	2	20
Toluene			50.0	50.2		ug/Kg		100	74 - 128	1	20
trans-1,2-Dichloroethene			50.0	54.8		ug/Kg		110	78 - 126	3	20
trans-1,3-Dichloropropene			50.0	48.6		ug/Kg		97	73 - 123	1	20
Trichloroethene			50.0	53.3		ug/Kg		107	77 - 129	3	20
Trichlorofluoromethane			50.0	50.3		ug/Kg		101	65 - 146	3	20
Vinyl chloride			50.0	50.8		ug/Kg		102	61 - 133	5	20
cis-1,3-Dichloropropene			50.0	50.5		ug/Kg		101	80 - 120	1	20
Styrene			50.0	47.3		ug/Kg		95	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*
4-Bromofluorobenzene (Surr)	*111*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: MB 480-463418/2-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
2-Hexanone	ND		25	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Acetone	ND		25	4.2	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Benzene	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromoform	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/18/19 10:06	03/18/19 11:24	1

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

Lab Sample ID: MB 480-463418/2-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloroform	ND		5.0	0.31	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methyl acetate	ND		25	3.0	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methylene Chloride	2.83	J	5.0	2.3	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Toluene	ND		5.0	0.38	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Styrene	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*03/18/19 10:06*	*03/18/19 11:24*	*1*

Lab Sample ID: LCS 480-463418/1-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.7		ug/Kg		101	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.0		ug/Kg		92	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2		ug/Kg		100	60 - 140
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	50.2		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	44.4		ug/Kg		89	64 - 120

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

Lab Sample ID: LCS 480-463418/1-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	39.2		ug/Kg		78	63 - 124
1,2-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 120
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	77 - 122
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	45.5		ug/Kg		91	73 - 120
2-Butanone (MEK)	250	275		ug/Kg		110	70 - 134
2-Hexanone	250	253		ug/Kg		101	59 - 130
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	65 - 133
Acetone	250	284		ug/Kg		114	61 - 137
Benzene	50.0	52.1		ug/Kg		104	79 - 127
Bromoform	50.0	53.8		ug/Kg		108	68 - 126
Bromomethane	50.0	53.9		ug/Kg		108	37 - 149
Carbon disulfide	50.0	47.7		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	52.0		ug/Kg		104	75 - 135
Chlorobenzene	50.0	48.8		ug/Kg		98	76 - 124
Dibromochloromethane	50.0	50.8		ug/Kg		102	76 - 125
Chloroethane	50.0	47.2		ug/Kg		94	69 - 135
Chloroform	50.0	52.2		ug/Kg		104	80 - 120
Chloromethane	50.0	48.5		ug/Kg		97	63 - 127
cis-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	81 - 120
Cyclohexane	50.0	47.1		ug/Kg		94	65 - 120
Bromodichloromethane	50.0	52.3		ug/Kg		105	80 - 122
Dichlorodifluoromethane	50.0	43.6		ug/Kg		87	57 - 142
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 120
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	43.0		ug/Kg		86	72 - 120
Methyl acetate	100	99.0		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	63 - 125
Methylcyclohexane	50.0	47.9		ug/Kg		96	60 - 140
Methylene Chloride	50.0	48.1		ug/Kg		96	61 - 127
Tetrachloroethene	50.0	50.9		ug/Kg		102	74 - 122
Toluene	50.0	48.0		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	78 - 126
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	73 - 123
Trichloroethene	50.0	50.7		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	53.8		ug/Kg		108	65 - 146
Vinyl chloride	50.0	53.6		ug/Kg		107	61 - 133
cis-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	80 - 120
Styrene	50.0	45.8		ug/Kg		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

GC/MS VOA

Analysis Batch: 463140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	8260C	463180
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	8260C	463180
MB 480-463180/2-A	Method Blank	Total/NA	Solid	8260C	463180
LCS 480-463180/1-A	Lab Control Sample	Total/NA	Solid	8260C	463180
LCSD 480-463180/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	463180

Prep Batch: 463180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	5035A_L	
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	5035A_L	
MB 480-463180/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-463180/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-463180/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 463385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	8260C	463418
MB 480-463418/2-A	Method Blank	Total/NA	Solid	8260C	463418
LCS 480-463418/1-A	Lab Control Sample	Total/NA	Solid	8260C	463418

Prep Batch: 463418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	5035A_L	
MB 480-463418/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-463418/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

General Chemistry

Analysis Batch: 463201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	Moisture	
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	Moisture	

Client Sample ID: PDI-26-50-17.5-031219
Lab Sample ID: 480-150235-1
Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-26-50-17.5-031219
Lab Sample ID: 480-150235-1
Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 17:29	CDC	TAL BUF

Client Sample ID: PDI-29-50-17.5-031219
Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-29-50-17.5-031219
Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 17:55	CDC	TAL BUF

Client Sample ID: PDI-27-50-17.5-031219
Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-27-50-17.5-031219
Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463418	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463385	03/18/19 12:07	CDC	TAL BUF

Client Sample ID: PDI-30-50-17.5-031219 — **Lab Sample ID: 480-150235-4**
Date Collected: 03/12/19 10:30 — **Matrix: Solid**
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-30-50-17.5-031219 — **Lab Sample ID: 480-150235-4**
Date Collected: 03/12/19 10:30 — **Matrix: Solid**
Date Received: 03/14/19 10:00 — **Percent Solids: 75.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 18:48	CDC	TAL BUF

Client Sample ID: PDI-31-50-17.5-031219 — **Lab Sample ID: 480-150235-5**
Date Collected: 03/12/19 11:00 — **Matrix: Solid**
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-31-50-17.5-031219 — **Lab Sample ID: 480-150235-5**
Date Collected: 03/12/19 11:00 — **Matrix: Solid**
Date Received: 03/14/19 10:00 — **Percent Solids: 76.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 19:14	CDC	TAL BUF

Client Sample ID: PDI-32-50-16-031219 — **Lab Sample ID: 480-150235-6**
Date Collected: 03/12/19 11:30 — **Matrix: Solid**
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-32-50-16-031219 — **Lab Sample ID: 480-150235-6**
Date Collected: 03/12/19 11:30 — **Matrix: Solid**
Date Received: 03/14/19 10:00 — **Percent Solids: 77.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 19:40	CDC	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 20:06	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 480-150235-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

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

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): ZB-624 (30) ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-26-50-17.5-031219	480-150235-1	108	114	101	101
PDI-29-50-17.5-031219	480-150235-2	107	111	102	102
PDI-27-50-17.5-031219	480-150235-3	110	112	102	103
PDI-30-50-17.5-031219	480-150235-4	109	113	103	102
PDI-31-50-17.5-031219	480-150235-5	111	114	103	101
PDI-32-50-16-031219	480-150235-6	110	113	103	101
PDI-28-50-16-031219	480-150235-7	109	112	103	102
	MB 480-463180/2-A	104	106	102	103
	MB 480-463418/2-A	105	106	102	102
	LCS 480-463180/1-A	106	106	102	110
	LCS 480-463418/1-A	106	106	101	110
	LCSD 480-463180/3-A	106	107	102	111

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	60-140
DCA = 1,2-Dichloroethane-d4 (Surr)	64-126
TOL = Toluene-d8 (Surr)	71-125
BFB = 4-Bromofluorobenzene (Surr)	72-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9073.D

Lab ID: LCS 480-463180/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	52.0	104	77-121	
1,1,2,2-Tetrachloroethane	50.0	47.8	96	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7	105	60-140	
1,1,2-Trichloroethane	50.0	49.8	100	78-122	
1,1-Dichloroethane	50.0	52.2	104	73-126	
1,1-Dichloroethene	50.0	52.0	104	59-125	
1,2,4-Trichlorobenzene	50.0	46.4	93	64-120	
1,2-Dibromo-3-Chloropropane	50.0	38.6	77	63-124	
1,2-Dichlorobenzene	50.0	46.6	93	75-120	
1,2-Dichloroethane	50.0	52.0	104	77-122	
1,2-Dichloropropane	50.0	51.9	104	75-124	
1,3-Dichlorobenzene	50.0	47.8	96	74-120	
1,4-Dichlorobenzene	50.0	47.2	94	73-120	
2-Butanone (MEK)	250	255	102	70-134	
2-Hexanone	250	235	94	59-130	
4-Methyl-2-pentanone (MIBK)	250	234	94	65-133	
Acetone	250	273	109	61-137	
Benzene	50.0	52.7	105	79-127	
Bromoform	50.0	54.0	108	68-126	
Bromomethane	50.0	55.5	111	37-149	
Carbon disulfide	50.0	50.3	101	64-131	
Carbon tetrachloride	50.0	53.5	107	75-135	
Chlorobenzene	50.0	50.1	100	76-124	
Dibromochloromethane	50.0	51.0	102	76-125	
Chloroethane	50.0	51.1	102	69-135	
Chloroform	50.0	52.4	105	80-120	
Chloromethane	50.0	49.0	98	63-127	
cis-1,2-Dichloroethene	50.0	52.8	106	81-120	
Cyclohexane	50.0	48.3	97	65-120	
Bromodichloromethane	50.0	51.5	103	80-122	
Dichlorodifluoromethane	50.0	48.4	97	57-142	
Ethylbenzene	50.0	49.7	99	80-120	
1,2-Dibromoethane	50.0	50.4	101	78-120	
Isopropylbenzene	50.0	45.8	92	72-120	
Methyl acetate	100	90.9	91	55-136	
Methyl tert-butyl ether	50.0	50.3	101	63-125	
Methylcyclohexane	50.0	50.0	100	60-140	
Methylene Chloride	50.0	46.8	94	61-127	
Tetrachloroethene	50.0	53.2	106	74-122	
Toluene	50.0	49.7	99	74-128	
trans-1,2-Dichloroethene	50.0	53.5	107	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9073.D

Lab ID: LCS 480-463180/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	48.9	98	73-123	
Trichloroethene	50.0	51.7	103	77-129	
Trichlorofluoromethane	50.0	52.0	104	65-146	
Vinyl chloride	50.0	53.3	107	61-133	
cis-1,3-Dichloropropene	50.0	50.9	102	80-120	
Styrene	50.0	46.8	94	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9102.D

Lab ID: LCS 480-463418/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	50.7	101	77-121	
1,1,2,2-Tetrachloroethane	50.0	46.0	92	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2	100	60-140	
1,1,2-Trichloroethane	50.0	50.1	100	78-122	
1,1-Dichloroethane	50.0	52.0	104	73-126	
1,1-Dichloroethene	50.0	50.2	100	59-125	
1,2,4-Trichlorobenzene	50.0	44.4	89	64-120	
1,2-Dibromo-3-Chloropropane	50.0	39.2	78	63-124	
1,2-Dichlorobenzene	50.0	44.7	89	75-120	
1,2-Dichloroethane	50.0	52.5	105	77-122	
1,2-Dichloropropane	50.0	52.2	104	75-124	
1,3-Dichlorobenzene	50.0	45.6	91	74-120	
1,4-Dichlorobenzene	50.0	45.5	91	73-120	
2-Butanone (MEK)	250	275	110	70-134	
2-Hexanone	250	253	101	59-130	
4-Methyl-2-pentanone (MIBK)	250	248	99	65-133	
Acetone	250	284	114	61-137	
Benzene	50.0	52.1	104	79-127	
Bromoform	50.0	53.8	108	68-126	
Bromomethane	50.0	53.9	108	37-149	
Carbon disulfide	50.0	47.7	95	64-131	
Carbon tetrachloride	50.0	52.0	104	75-135	
Chlorobenzene	50.0	48.8	98	76-124	
Dibromochloromethane	50.0	50.8	102	76-125	
Chloroethane	50.0	47.2	94	69-135	
Chloroform	50.0	52.2	104	80-120	
Chloromethane	50.0	48.5	97	63-127	
cis-1,2-Dichloroethene	50.0	52.2	104	81-120	
Cyclohexane	50.0	47.1	94	65-120	
Bromodichloromethane	50.0	52.3	105	80-122	
Dichlorodifluoromethane	50.0	43.6	87	57-142	
Ethylbenzene	50.0	47.9	96	80-120	
1,2-Dibromoethane	50.0	50.4	101	78-120	
Isopropylbenzene	50.0	43.0	86	72-120	
Methyl acetate	100	99.0	99	55-136	
Methyl tert-butyl ether	50.0	51.4	103	63-125	
Methylcyclohexane	50.0	47.9	96	60-140	
Methylene Chloride	50.0	48.1	96	61-127	
Tetrachloroethene	50.0	50.9	102	74-122	
Toluene	50.0	48.0	96	74-128	
trans-1,2-Dichloroethene	50.0	52.1	104	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9102.D

Lab ID: LCS 480-463418/1-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	48.9	98	73-123	
Trichloroethene	50.0	50.7	101	77-129	
Trichlorofluoromethane	50.0	53.8	108	65-146	
Vinyl chloride	50.0	53.6	107	61-133	
cis-1,3-Dichloropropene	50.0	51.1	102	80-120	
Styrene	50.0	45.8	92	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9076.D

Lab ID: LCSD 480-463180/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	50.0	52.7	105	1	20	77-121	
1,1,2,2-Tetrachloroethane	50.0	47.5	95	1	20	80-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.2	104	1	20	60-140	
1,1,2-Trichloroethane	50.0	49.6	99	1	20	78-122	
1,1-Dichloroethane	50.0	52.5	105	1	20	73-126	
1,1-Dichloroethene	50.0	51.4	103	1	20	59-125	
1,2,4-Trichlorobenzene	50.0	47.7	95	3	20	64-120	
1,2-Dibromo-3-Chloropropane	50.0	39.9	80	3	20	63-124	
1,2-Dichlorobenzene	50.0	46.6	93	0	20	75-120	
1,2-Dichloroethane	50.0	50.9	102	2	20	77-122	
1,2-Dichloropropane	50.0	51.3	103	1	20	75-124	
1,3-Dichlorobenzene	50.0	48.0	96	1	20	74-120	
1,4-Dichlorobenzene	50.0	47.9	96	2	20	73-120	
2-Butanone (MEK)	250	264	106	4	20	70-134	
2-Hexanone	250	248	99	6	20	59-130	
4-Methyl-2-pentanone (MIBK)	250	241	96	3	20	65-133	
Acetone	250	283	113	4	20	61-137	
Benzene	50.0	52.6	105	0	20	79-127	
Bromoform	50.0	54.0	108	0	20	68-126	
Bromomethane	50.0	50.3	101	10	20	37-149	
Carbon disulfide	50.0	48.6	97	3	20	64-131	
Carbon tetrachloride	50.0	53.9	108	1	20	75-135	
Chlorobenzene	50.0	50.5	101	1	20	76-124	
Dibromochloromethane	50.0	50.3	101	1	20	76-125	
Chloroethane	50.0	44.4	89	14	20	69-135	
Chloroform	50.0	52.4	105	0	20	80-120	
Chloromethane	50.0	47.2	94	4	20	63-127	
cis-1,2-Dichloroethene	50.0	52.9	106	0	20	81-120	
Cyclohexane	50.0	48.4	97	0	20	65-120	
Bromodichloromethane	50.0	50.8	102	1	20	80-122	
Dichlorodifluoromethane	50.0	46.7	93	4	20	57-142	
Ethylbenzene	50.0	50.1	100	1	20	80-120	
1,2-Dibromoethane	50.0	49.8	100	1	20	78-120	
Isopropylbenzene	50.0	45.7	91	0	20	72-120	
Methyl acetate	100	94.5	95	4	20	55-136	
Methyl tert-butyl ether	50.0	49.8	100	1	20	63-125	
Methylcyclohexane	50.0	50.5	101	1	20	60-140	
Methylene Chloride	50.0	46.7	93	0	20	61-127	
Tetrachloroethene	50.0	54.0	108	2	20	74-122	
Toluene	50.0	50.2	100	1	20	74-128	
trans-1,2-Dichloroethene	50.0	54.8	110	3	20	78-126	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: F9076.D

Lab ID: LCSD 480-463180/3-A Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	50.0	48.6	97	1	20	73-123	
Trichloroethene	50.0	53.3	107	3	20	77-129	
Trichlorofluoromethane	50.0	50.3	101	3	20	65-146	
Vinyl chloride	50.0	50.8	102	5	20	61-133	
cis-1,3-Dichloropropene	50.0	50.5	101	1	20	80-120	
Styrene	50.0	47.3	95	1	20	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab File ID: F9075.D Lab Sample ID: MB 480-463180/2-A

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

Instrument ID: HP5973F Date Analyzed: 03/15/2019 10:54

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-463180/1-A	F9073.D	03/15/2019 10:02
	LCSD 480-463180/3-A	F9076.D	03/15/2019 11:26
PDI-26-50-17.5-031219	480-150235-1	F9090.D	03/15/2019 17:29
PDI-29-50-17.5-031219	480-150235-2	F9091.D	03/15/2019 17:55
PDI-30-50-17.5-031219	480-150235-4	F9093.D	03/15/2019 18:48
PDI-31-50-17.5-031219	480-150235-5	F9094.D	03/15/2019 19:14
PDI-32-50-16-031219	480-150235-6	F9095.D	03/15/2019 19:40
PDI-28-50-16-031219	480-150235-7	F9096.D	03/15/2019 20:06

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab File ID: F9104.D Lab Sample ID: MB 480-463418/2-A

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

Instrument ID: HP5973F Date Analyzed: 03/18/2019 11:24

GC Column: ZB-624 (30) VOA ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-463418/1-A	F9102.D	03/18/2019 10:31
PDI-27-50-17.5-031219	480-150235-3	F9105.D	03/18/2019 12:07

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab File ID: F7811.D BFB Injection Date: 01/11/2019

Instrument ID: HP5973F BFB Injection Time: 10:24

Analysis Batch No.: 454682

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.4	
75	30.0 - 60.0 % of mass 95	46.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	86.5	
175	5.0 - 9.0 % of mass 174	6.1	(7.1) 1
176	95.0 - 101.0 % of mass 174	85.5	(98.9) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.7) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-454682/6	F7813.D	01/11/2019	11:17
	IC 480-454682/7	F7814.D	01/11/2019	11:43
	IC 480-454682/8	F7815.D	01/11/2019	12:09
	IC 480-454682/9	F7816.D	01/11/2019	12:35
	ICIS 480-454682/10	F7817.D	01/11/2019	13:01
	IC 480-454682/11	F7818.D	01/11/2019	13:27
	IC 480-454682/12	F7819.D	01/11/2019	13:52

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab File ID: F9070.D BFB Injection Date: 03/15/2019

Instrument ID: HP5973F BFB Injection Time: 08:31

Analysis Batch No.: 463140

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.8	
75	30.0 - 60.0 % of mass 95	45.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	96.0	
175	5.0 - 9.0 % of mass 174	6.9	(7.2) 1
176	95.0 - 101.0 % of mass 174	94.7	(98.6) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-463140/3	F9071.D	03/15/2019	09:00
	LCS 480-463180/1-A	F9073.D	03/15/2019	10:02
	MB 480-463180/2-A	F9075.D	03/15/2019	10:54
	LCSD 480-463180/3-A	F9076.D	03/15/2019	11:26
PDI-26-50-17.5-031219	480-150235-1	F9090.D	03/15/2019	17:29
PDI-29-50-17.5-031219	480-150235-2	F9091.D	03/15/2019	17:55
PDI-30-50-17.5-031219	480-150235-4	F9093.D	03/15/2019	18:48
PDI-31-50-17.5-031219	480-150235-5	F9094.D	03/15/2019	19:14
PDI-32-50-16-031219	480-150235-6	F9095.D	03/15/2019	19:40
PDI-28-50-16-031219	480-150235-7	F9096.D	03/15/2019	20:06

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab File ID: F9099.D BFB Injection Date: 03/18/2019

Instrument ID: HP5973F BFB Injection Time: 09:08

Analysis Batch No.: 463385

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.8	
75	30.0 - 60.0 % of mass 95	45.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	94.6	
175	5.0 - 9.0 % of mass 174	7.1	(7.5) 1
176	95.0 - 101.0 % of mass 174	92.5	(97.8) 1
177	5.0 - 9.0 % of mass 176	5.9	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-463385/4	F9100.D	03/18/2019	09:37
	LCS 480-463418/1-A	F9102.D	03/18/2019	10:31
	MB 480-463418/2-A	F9104.D	03/18/2019	11:24
PDI-27-50-17.5-031219	480-150235-3	F9105.D	03/18/2019	12:07

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Sample No.: ICIS 480-454682/10 Date Analyzed: 01/11/2019 13:01

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F7817.D Heated Purge: (Y/N) Y

Calibration ID: 35754

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		222636	5.72	451187	8.58	444175	10.87
UPPER LIMIT		445272	6.22	902374	9.08	888350	11.37
LOWER LIMIT		111318	5.22	225594	8.08	222088	10.37
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCVIS 480-463140/3		165540	5.72	348263	8.57	356476	10.86
CCVIS 480-463385/4		154530	5.72	334224	8.57	351618	10.86

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Sample No.: CCVIS 480-463140/3 Date Analyzed: 03/15/2019 09:00

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F9071.D Heated Purge: (Y/N) Y

Calibration ID: 35757

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		165540	5.72	348263	8.57	356476	10.86
UPPER LIMIT		331080	6.22	696526	9.07	712952	11.36
LOWER LIMIT		82770	5.22	174132	8.07	178238	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-463180/1-A		169997	5.72	361789	8.58	367743	10.86
MB 480-463180/2-A		166572	5.73	352369	8.58	327059	10.86
LCSD 480-463180/3-A		168417	5.72	359630	8.57	370690	10.87
480-150235-1	PDI-26-50-17.5-031219	138453	5.73	294303	8.58	267509	10.87
480-150235-2	PDI-29-50-17.5-031219	149236	5.73	314043	8.58	286779	10.87
480-150235-4	PDI-30-50-17.5-031219	142321	5.73	301893	8.58	272000	10.86
480-150235-5	PDI-31-50-17.5-031219	136208	5.72	287866	8.58	262234	10.86
480-150235-6	PDI-32-50-16-031219	142812	5.72	301692	8.57	276615	10.87
480-150235-7	PDI-28-50-16-031219	144330	5.73	301201	8.58	277123	10.86

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Sample No.: CCVIS 480-463385/4 Date Analyzed: 03/18/2019 09:37

Instrument ID: HP5973F GC Column: ZB-624 (30) VOA ID: 0.25(mm)

Lab File ID (Standard): F9100.D Heated Purge: (Y/N) Y

Calibration ID: 35757

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		154530	5.72	334224	8.57	351618	10.86
UPPER LIMIT		309060	6.22	668448	9.07	703236	11.36
LOWER LIMIT		77265	5.22	167112	8.07	175809	10.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-463418/1-A		152838	5.72	330243	8.57	343323	10.86
MB 480-463418/2-A		153608	5.73	328896	8.57	305164	10.86
480-150235-3	PDI-27-50-17.5-031219	145784	5.72	306819	8.57	285734	10.86

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

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-26-50-17.5-031219 | Lab Sample ID: 480-150235-1

Matrix: Solid | Lab File ID: F9090.D

Analysis Method: 8260C | Date Collected: 03/12/2019 08:30

Sample wt/vol: 6.95(g) | Date Analyzed: 03/15/2019 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.2 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.34	J	4.6	0.34
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.6	0.75
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.6	0.60
75-34-3	1,1-Dichloroethane	ND		4.6	0.56
75-35-4	1,1-Dichloroethene	ND		4.6	0.57
120-82-1	1,2,4-Trichlorobenzene	ND		4.6	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.6	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.6	0.36
107-06-2	1,2-Dichloroethane	ND		4.6	0.23
78-87-5	1,2-Dichloropropane	ND		4.6	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.6	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.6	0.65
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	5.2	J	23	3.9
71-43-2	Benzene	ND		4.6	0.23
75-25-2	Bromoform	ND		4.6	2.3
74-83-9	Bromomethane	ND		4.6	0.42
75-15-0	Carbon disulfide	ND		4.6	2.3
56-23-5	Carbon tetrachloride	ND		4.6	0.45
108-90-7	Chlorobenzene	ND		4.6	0.61
124-48-1	Dibromochloromethane	ND		4.6	0.59
75-00-3	Chloroethane	ND		4.6	1.0
67-66-3	Chloroform	ND		4.6	0.29
74-87-3	Chloromethane	ND		4.6	0.28
156-59-2	cis-1,2-Dichloroethene	4.4	J	4.6	0.59
110-82-7	Cyclohexane	ND		4.6	0.65
75-27-4	Bromodichloromethane	ND		4.6	0.62
75-71-8	Dichlorodifluoromethane	ND		4.6	0.38
100-41-4	Ethylbenzene	ND		4.6	0.32
106-93-4	1,2-Dibromoethane	ND		4.6	0.59
98-82-8	Isopropylbenzene	ND		4.6	0.70
79-20-9	Methyl acetate	ND		23	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-26-50-17.5-031219 | Lab Sample ID: 480-150235-1

Matrix: Solid | Lab File ID: F9090.D

Analysis Method: 8260C | Date Collected: 03/12/2019 08:30

Sample wt/vol: 6.95(g) | Date Analyzed: 03/15/2019 17:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.2 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.6	0.45
108-87-2	Methylcyclohexane	ND		4.6	0.70
75-09-2	Methylene Chloride	ND		4.6	2.1
127-18-4	Tetrachloroethene	1.5	J	4.6	0.62
108-88-3	Toluene	ND		4.6	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.6	0.48
10061-02-6	trans-1,3-Dichloropropene	ND		4.6	2.0
79-01-6	Trichloroethene	29		4.6	1.0
75-69-4	Trichlorofluoromethane	ND		4.6	0.44
75-01-4	Vinyl chloride	ND		4.6	0.56
1330-20-7	Xylenes, Total	ND		9.3	0.78
10061-01-5	cis-1,3-Dichloropropene	ND		4.6	0.67
100-42-5	Styrene	ND		4.6	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		64-126
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	108		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D
Lims ID: 480-150235-C-1-A
Client ID: PDI-26-50-17.5-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 17:29:30 ALS Bottle#: 15 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-1-A
Misc. Info.: 480-0079401-022
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:32:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	138453	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	85	294303	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.864	0.006	94	267509	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	94	172815	53.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	117417	57.0	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	703915	50.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.782	-0.001	97	236534	50.7	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62		2.408				ND	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.467	3.449	0.018	98	8477	5.59	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.813	3.801	0.012	93	8898	2.11	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	79	20271	4.73	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97	5.206	5.207	-0.001	80	1865	0.3650	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	96	125425	31.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166	7.725	7.731	0.000	95	7663	1.62	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

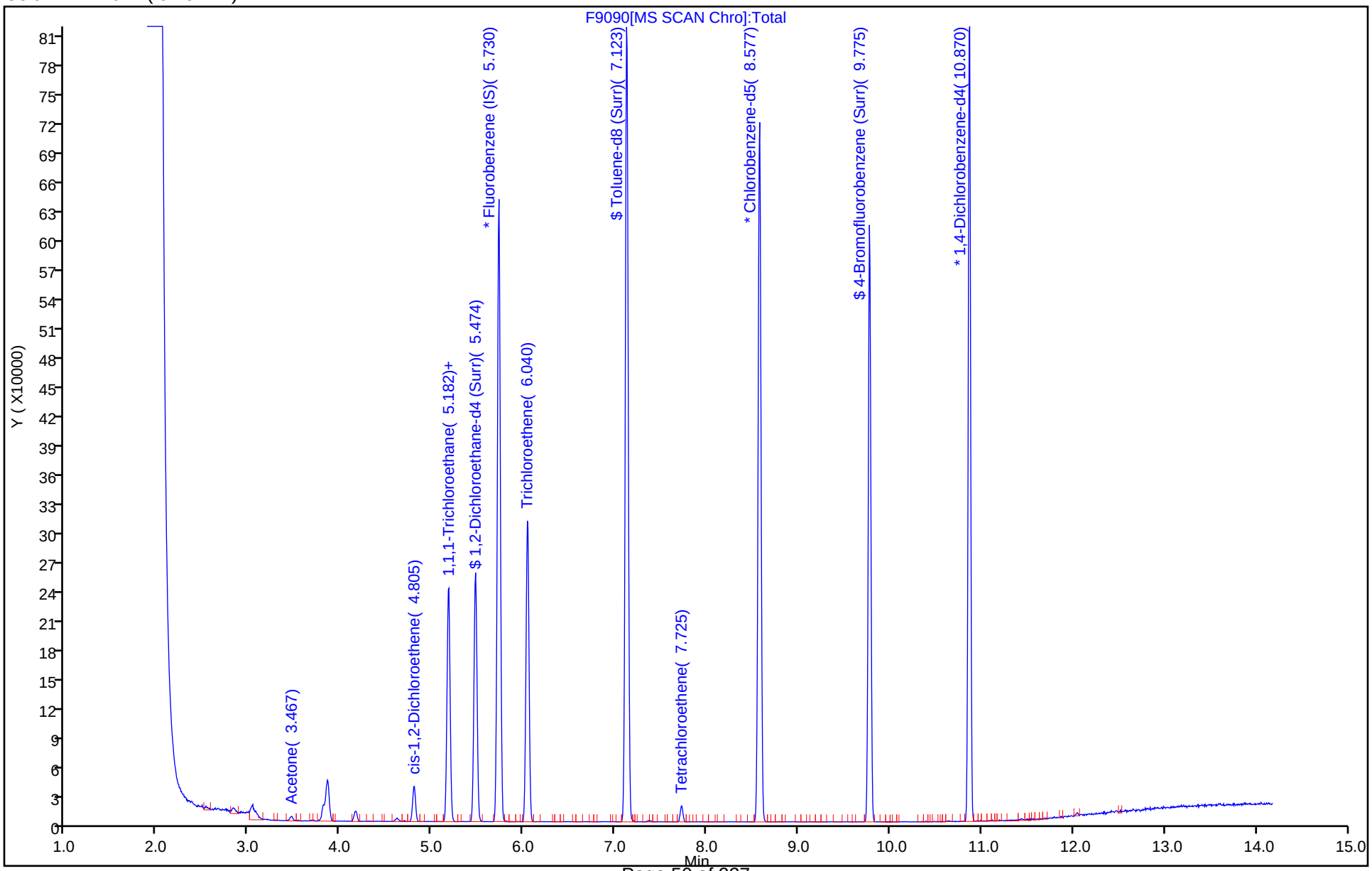
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1	Worklist Smp#:	22
Client ID:	PDI-26-50-17.5-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



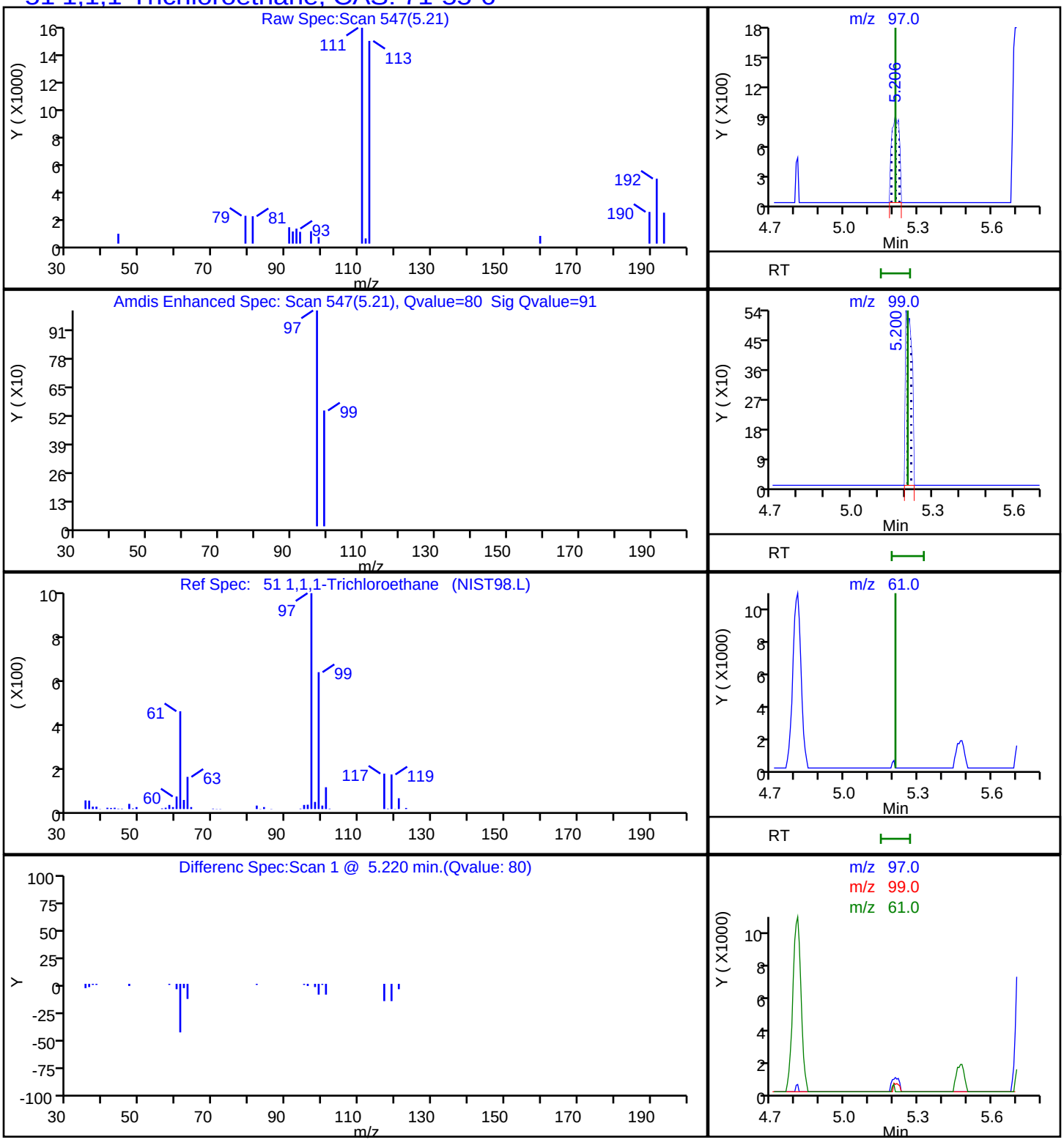
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1		
Client ID:	PDI-26-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

51 1,1,1-Trichloroethane, CAS: 71-55-6



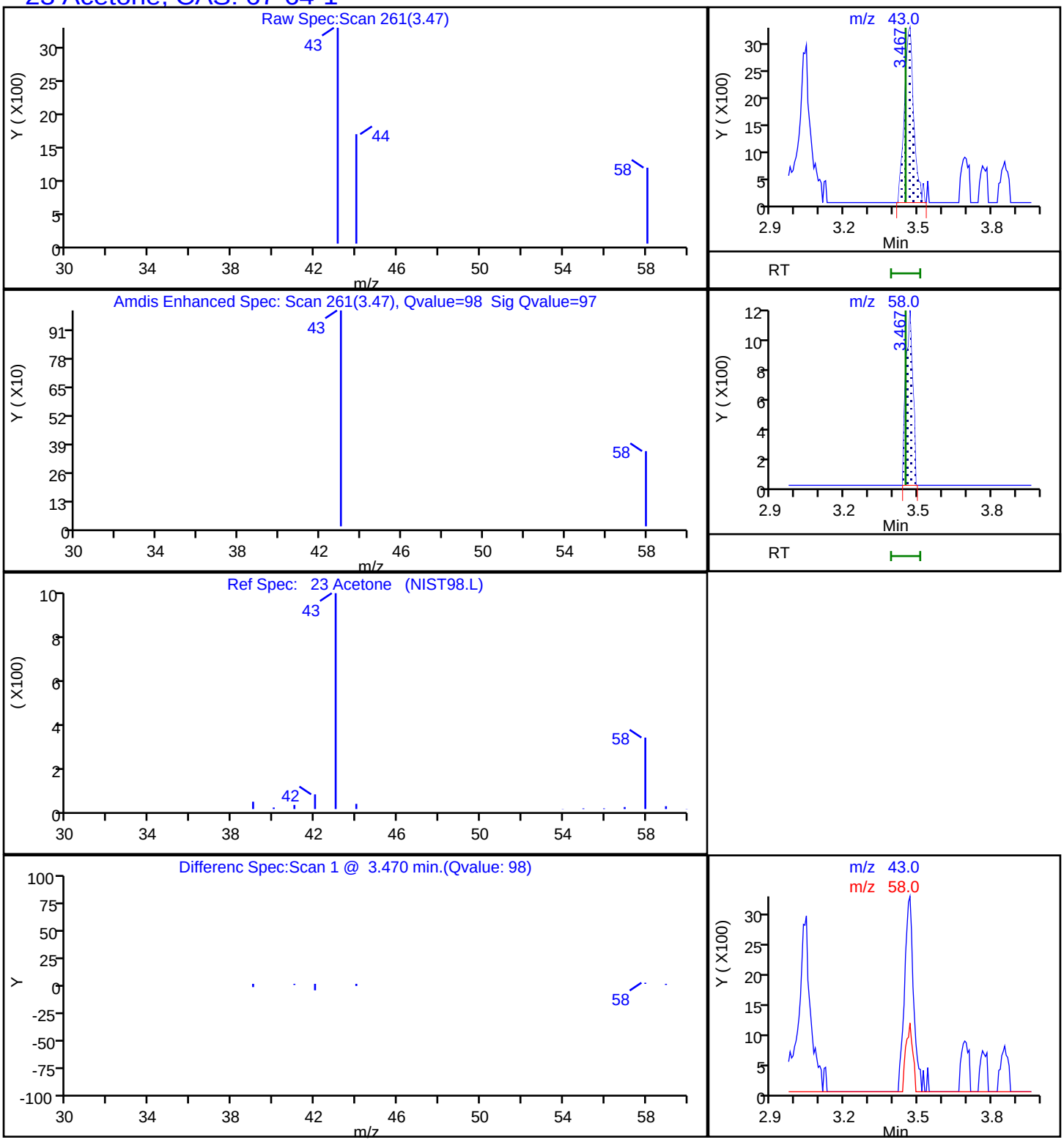
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1
Client ID:	PDI-26-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	15 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



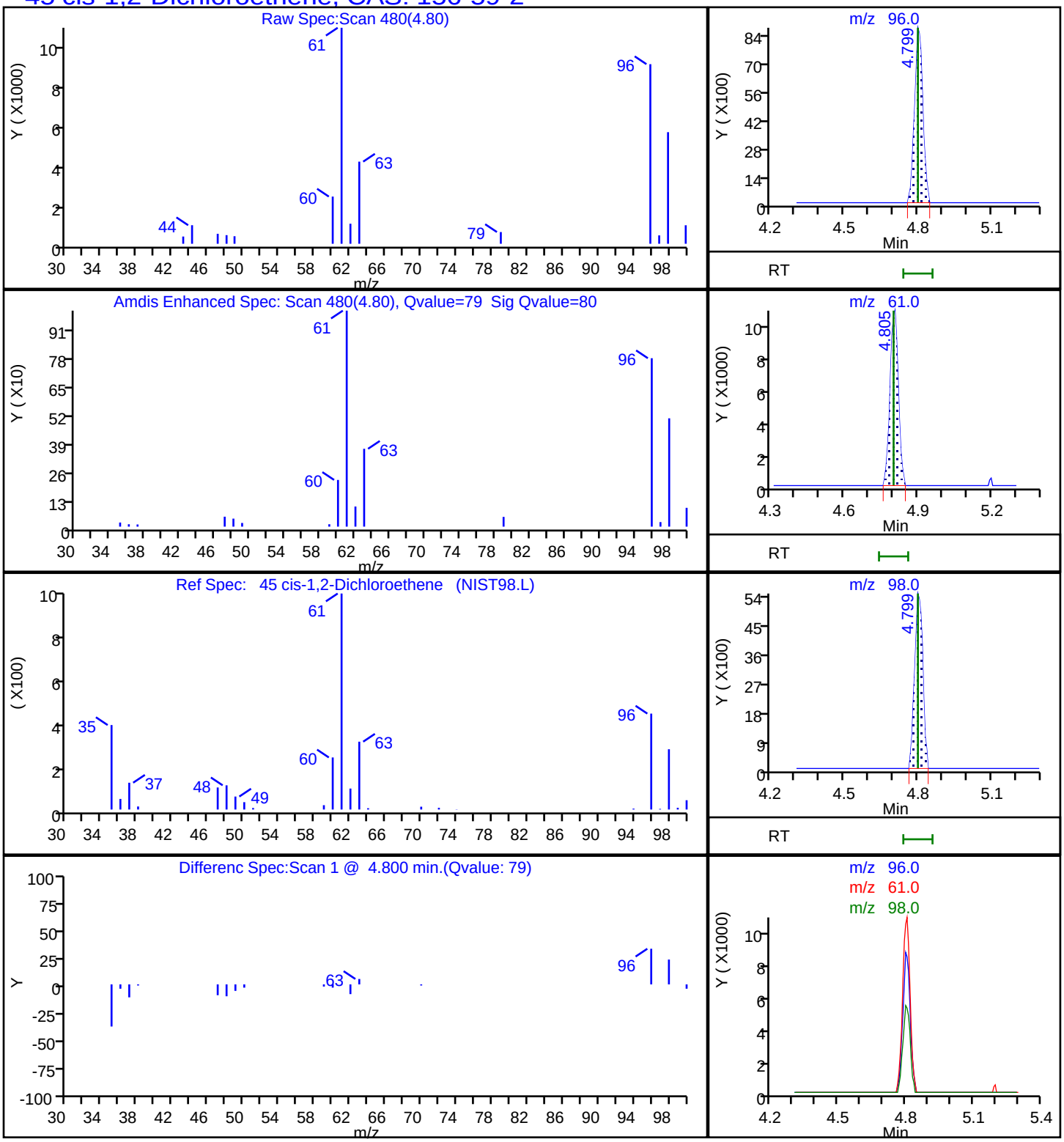
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1		
Client ID:	PDI-26-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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



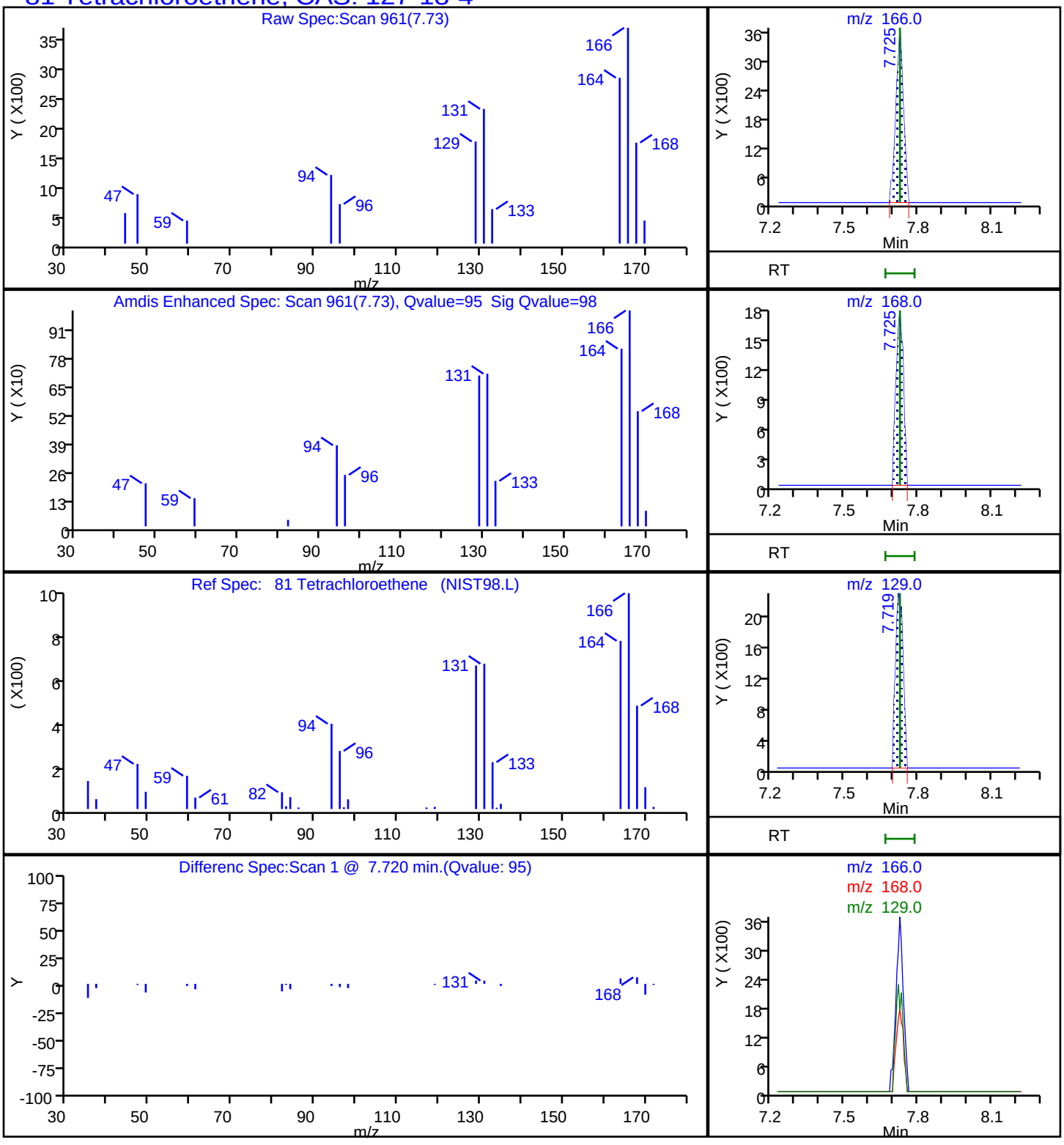
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1
Client ID:	PDI-26-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	15 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



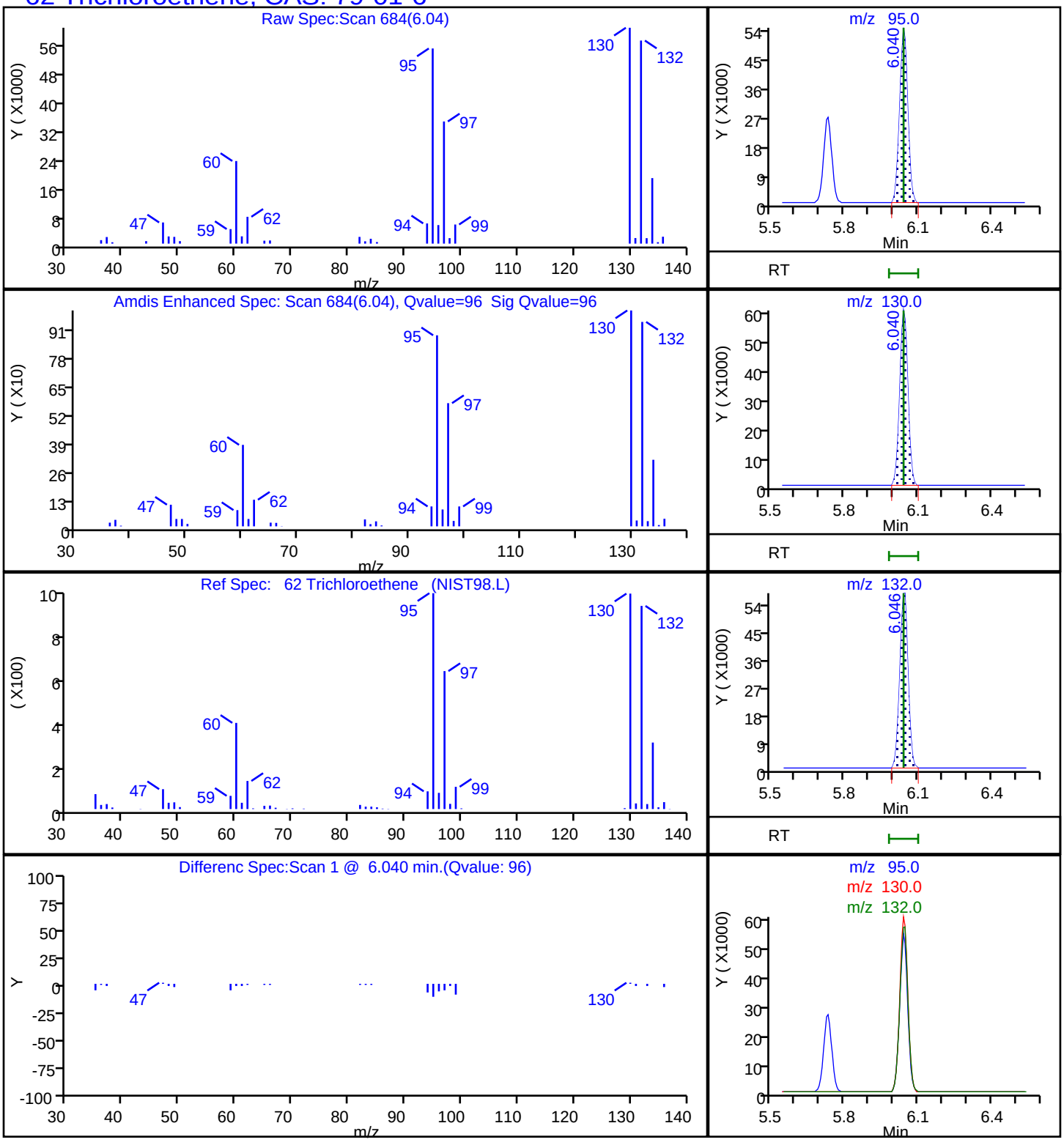
Report Date: 18-Mar-2019 08:32:49 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9090.D

Injection Date:	15-Mar-2019 17:29:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-1-A	Lab Sample ID:	480-150235-1		
Client ID:	PDI-26-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	15	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-29-50-17.5-031219 | Lab Sample ID: 480-150235-2

Matrix: Solid | Lab File ID: F9091.D

Analysis Method: 8260C | Date Collected: 03/12/2019 09:15

Sample wt/vol: 7.32(g) | Date Analyzed: 03/15/2019 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.6 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.5	0.32
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.5	0.73
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.5	0.58
75-34-3	1,1-Dichloroethane	ND		4.5	0.55
75-35-4	1,1-Dichloroethene	ND		4.5	0.55
120-82-1	1,2,4-Trichlorobenzene	ND		4.5	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.5	2.2
95-50-1	1,2-Dichlorobenzene	ND		4.5	0.35
107-06-2	1,2-Dichloroethane	ND		4.5	0.22
78-87-5	1,2-Dichloropropane	ND		4.5	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.5	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.5	0.63
78-93-3	2-Butanone (MEK)	ND		22	1.6
591-78-6	2-Hexanone	ND		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.5
67-64-1	Acetone	3.9	J	22	3.8
71-43-2	Benzene	ND		4.5	0.22
75-25-2	Bromoform	ND		4.5	2.2
74-83-9	Bromomethane	ND		4.5	0.40
75-15-0	Carbon disulfide	ND		4.5	2.2
56-23-5	Carbon tetrachloride	ND		4.5	0.43
108-90-7	Chlorobenzene	ND		4.5	0.59
124-48-1	Dibromochloromethane	ND		4.5	0.57
75-00-3	Chloroethane	ND		4.5	1.0
67-66-3	Chloroform	ND		4.5	0.28
74-87-3	Chloromethane	ND		4.5	0.27
156-59-2	cis-1,2-Dichloroethene	ND		4.5	0.57
110-82-7	Cyclohexane	ND		4.5	0.63
75-27-4	Bromodichloromethane	ND		4.5	0.60
75-71-8	Dichlorodifluoromethane	ND		4.5	0.37
100-41-4	Ethylbenzene	ND		4.5	0.31
106-93-4	1,2-Dibromoethane	ND		4.5	0.57
98-82-8	Isopropylbenzene	ND		4.5	0.67
79-20-9	Methyl acetate	ND		22	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-29-50-17.5-031219 | Lab Sample ID: 480-150235-2

Matrix: Solid | Lab File ID: F9091.D

Analysis Method: 8260C | Date Collected: 03/12/2019 09:15

Sample wt/vol: 7.32(g) | Date Analyzed: 03/15/2019 17:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.6 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.5	0.44
108-87-2	Methylcyclohexane	ND		4.5	0.68
75-09-2	Methylene Chloride	ND		4.5	2.1
127-18-4	Tetrachloroethene	ND		4.5	0.60
108-88-3	Toluene	ND		4.5	0.34
156-60-5	trans-1,2-Dichloroethene	ND		4.5	0.46
10061-02-6	trans-1,3-Dichloropropene	ND		4.5	2.0
79-01-6	Trichloroethene	9.8		4.5	0.98
75-69-4	Trichlorofluoromethane	ND		4.5	0.42
75-01-4	Vinyl chloride	ND		4.5	0.55
1330-20-7	Xylenes, Total	ND		8.9	0.75
10061-01-5	cis-1,3-Dichloropropene	ND		4.5	0.64
100-42-5	Styrene	ND		4.5	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		64-126
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	107		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9091.D
Lims ID: 480-150235-C-2-A
Client ID: PDI-29-50-17.5-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 17:55:30 ALS Bottle#: 16 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-2-A
Misc. Info.: 480-0079401-023
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:33:18

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	149236	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	85	314043	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.864	0.007	94	286779	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	94	185258	53.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	123207	55.4	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	756203	51.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.782	0.000	97	253602	50.9	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62		2.408				ND	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.467	3.449	0.018	99	7215	4.42	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.820	3.801	0.019	95	8565	1.88	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96	4.805	4.799	0.006	71	1646	0.3563	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	96	46688	11.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166	7.725	7.731	0.000	84	1599	0.3168	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

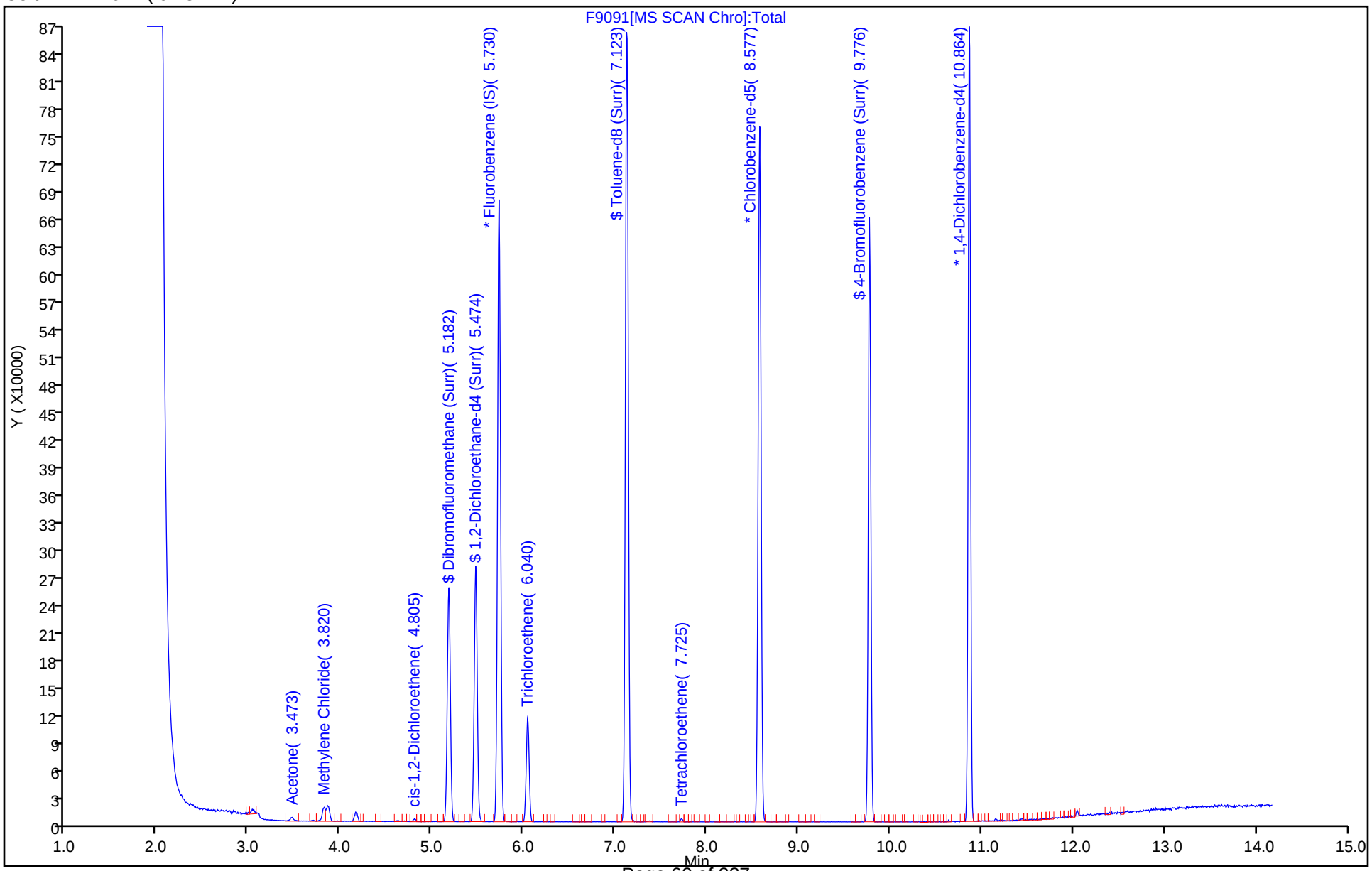
Report Date: 18-Mar-2019 08:33:19 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9091.D

Injection Date:	15-Mar-2019 17:55:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-2-A	Lab Sample ID:	480-150235-2	Worklist Smp#:	23
Client ID:	PDI-29-50-17.5-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



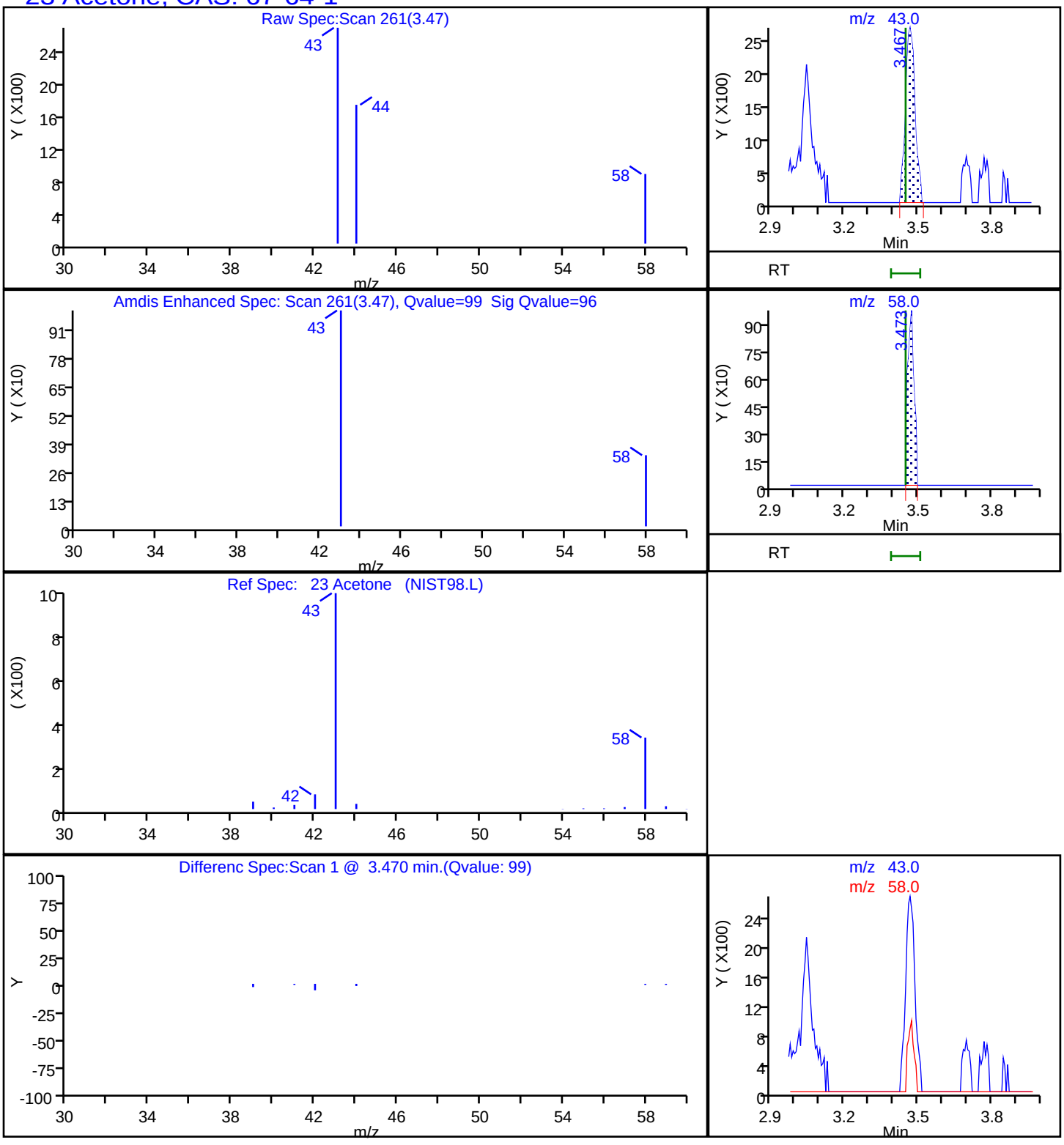
Report Date: 18-Mar-2019 08:33:19 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9091.D

Injection Date:	15-Mar-2019 17:55:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-2-A	Lab Sample ID:	480-150235-2
Client ID:	PDI-29-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	16 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



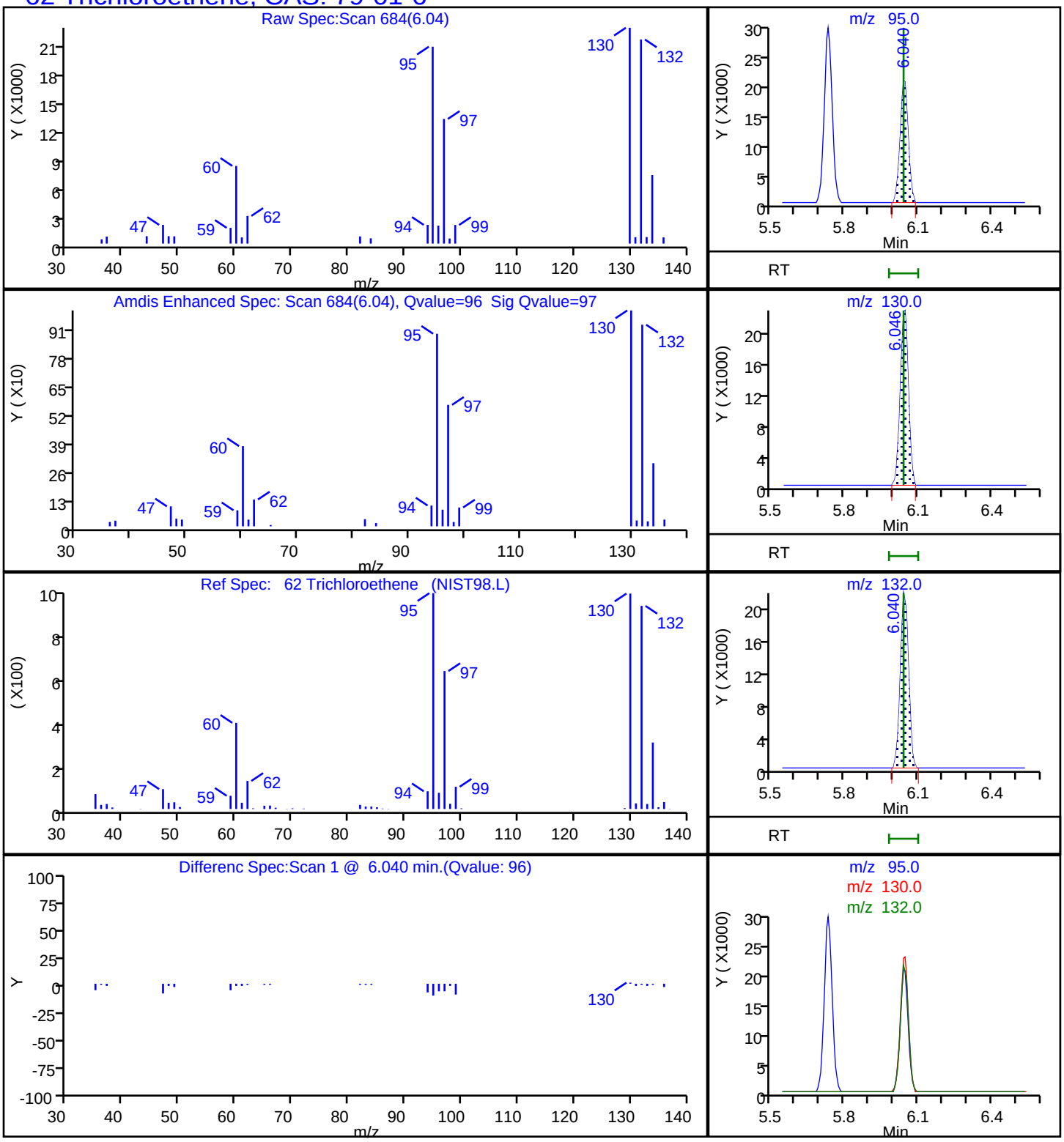
Report Date: 18-Mar-2019 08:33:19 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9091.D

Injection Date:	15-Mar-2019 17:55:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-2-A	Lab Sample ID:	480-150235-2
Client ID:	PDI-29-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	16 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-27-50-17.5-031219 | Lab Sample ID: 480-150235-3

Matrix: Solid | Lab File ID: F9105.D

Analysis Method: 8260C | Date Collected: 03/12/2019 09:45

Sample wt/vol: 7.11(g) | Date Analyzed: 03/18/2019 12:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.2 | Level: (low/med) Low

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.4	0.32
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.4	0.71
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0
79-00-5	1,1,2-Trichloroethane	ND		4.4	0.57
75-34-3	1,1-Dichloroethane	ND		4.4	0.54
75-35-4	1,1-Dichloroethene	ND		4.4	0.54
120-82-1	1,2,4-Trichlorobenzene	ND		4.4	0.27
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.4	2.2
95-50-1	1,2-Dichlorobenzene	ND		4.4	0.34
107-06-2	1,2-Dichloroethane	ND		4.4	0.22
78-87-5	1,2-Dichloropropane	ND		4.4	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.4	0.23
106-46-7	1,4-Dichlorobenzene	ND		4.4	0.62
78-93-3	2-Butanone (MEK)	ND		22	1.6
591-78-6	2-Hexanone	ND		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.4
67-64-1	Acetone	4.9	J	22	3.7
71-43-2	Benzene	ND		4.4	0.22
75-25-2	Bromoform	ND		4.4	2.2
74-83-9	Bromomethane	ND		4.4	0.40
75-15-0	Carbon disulfide	ND		4.4	2.2
56-23-5	Carbon tetrachloride	ND		4.4	0.43
108-90-7	Chlorobenzene	ND		4.4	0.58
124-48-1	Dibromochloromethane	ND		4.4	0.56
75-00-3	Chloroethane	ND		4.4	1.0
67-66-3	Chloroform	ND		4.4	0.27
74-87-3	Chloromethane	ND		4.4	0.27
156-59-2	cis-1,2-Dichloroethene	ND		4.4	0.56
110-82-7	Cyclohexane	ND		4.4	0.62
75-27-4	Bromodichloromethane	ND		4.4	0.59
75-71-8	Dichlorodifluoromethane	ND		4.4	0.36
100-41-4	Ethylbenzene	ND		4.4	0.30
106-93-4	1,2-Dibromoethane	ND		4.4	0.57
98-82-8	Isopropylbenzene	ND		4.4	0.66
79-20-9	Methyl acetate	ND		22	2.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-27-50-17.5-031219 | Lab Sample ID: 480-150235-3

Matrix: Solid | Lab File ID: F9105.D

Analysis Method: 8260C | Date Collected: 03/12/2019 09:45

Sample wt/vol: 7.11(g) | Date Analyzed: 03/18/2019 12:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 20.2 | Level: (low/med) Low

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.4	0.43
108-87-2	Methylcyclohexane	ND		4.4	0.67
75-09-2	Methylene Chloride	2.9	J B	4.4	2.0
127-18-4	Tetrachloroethene	ND		4.4	0.59
108-88-3	Toluene	ND		4.4	0.33
156-60-5	trans-1,2-Dichloroethene	ND		4.4	0.45
10061-02-6	trans-1,3-Dichloropropene	ND		4.4	1.9
79-01-6	Trichloroethene	ND		4.4	0.97
75-69-4	Trichlorofluoromethane	ND		4.4	0.42
75-01-4	Vinyl chloride	ND		4.4	0.54
1330-20-7	Xylenes, Total	ND		8.8	0.74
10061-01-5	cis-1,3-Dichloropropene	ND		4.4	0.63
100-42-5	Styrene	ND		4.4	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	110		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9105.D
Lims ID: 480-150235-D-3-A
Client ID: PDI-27-50-17.5-031219
Sample Type: Client
Inject. Date: 18-Mar-2019 12:07:30 ALS Bottle#: 1 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-D-3-A
Misc. Info.: 480-0079450-009
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 15:29:25 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0325

First Level Reviewer: cwiklinc Date: 19-Mar-2019 10:13:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	145784	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	85	306819	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	285734	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	185742	55.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	121291	55.9	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	734932	50.8	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	0.000	96	251536	51.7	
10 Dichlorodifluoromethane	85		2.116				ND	
12 Chloromethane	50		2.317				ND	
13 Vinyl chloride	62		2.414				ND	
14 Bromomethane	94		2.731				ND	
15 Chloroethane	64		2.798				ND	
17 Trichlorofluoromethane	101		2.998				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.461	3.455	0.006	99	8810	5.52	
26 Carbon disulfide	76		3.643				ND	
27 Methyl acetate	43		3.686				ND	
30 Methylene Chloride	84	3.807	3.807	0.000	94	14431	3.24	
32 Methyl tert-butyl ether	73		3.972				ND	
34 trans-1,2-Dichloroethene	96		4.008				ND	
39 1,1-Dichloroethane	63		4.343				ND	
43 2-Butanone (MEK)	43		4.781				ND	
45 cis-1,2-Dichloroethene	96		4.799				ND	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.340				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	92	2852	0.6871	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.874				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.971				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.585				ND	
81 Tetrachloroethene	166		7.719				ND	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.601				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.223				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.886				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

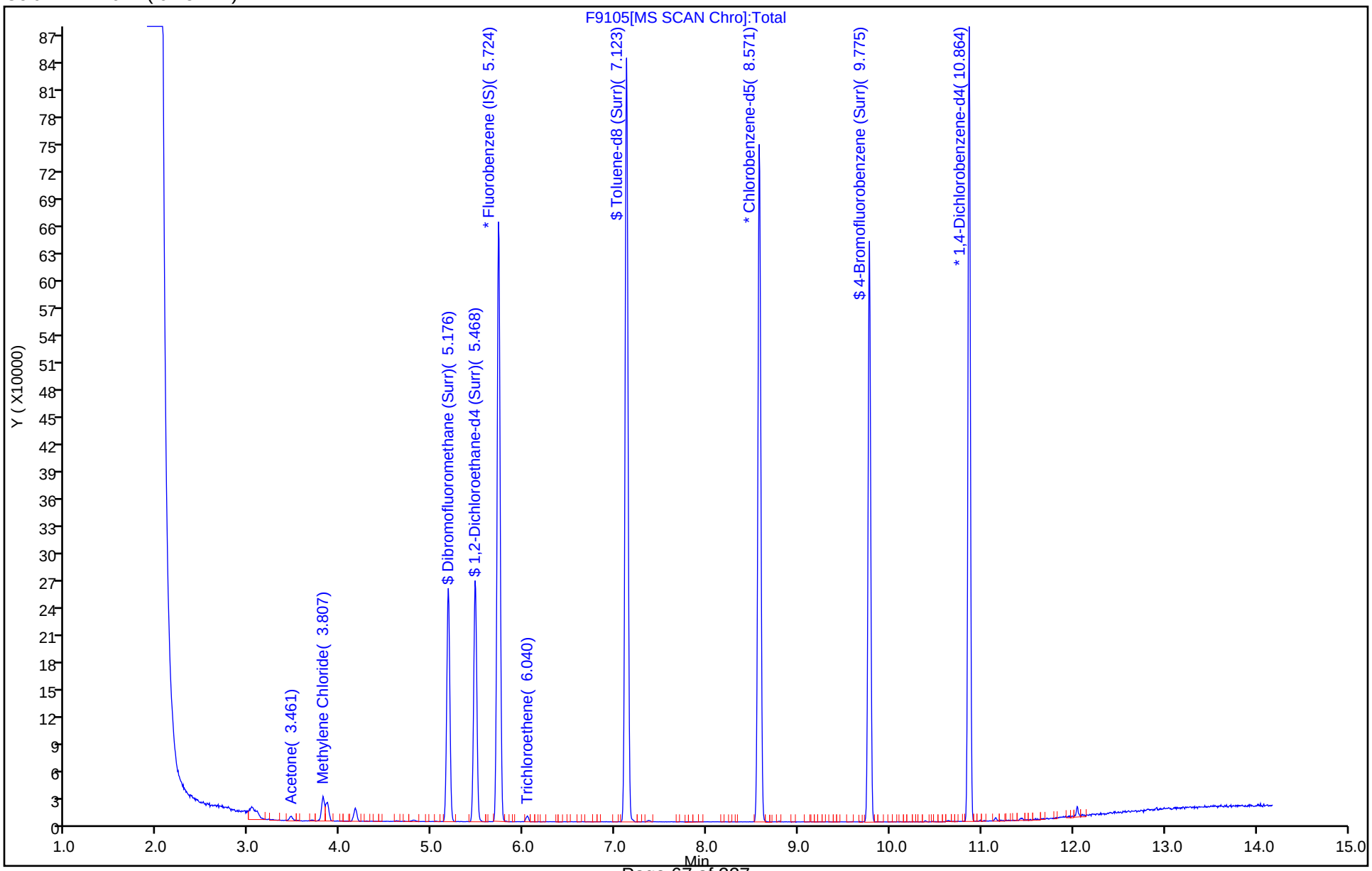
Report Date: 19-Mar-2019 10:13:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9105.D

Injection Date:	18-Mar-2019 12:07:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-D-3-A	Lab Sample ID:	480-150235-3	Worklist Smp#:	9
Client ID:	PDI-27-50-17.5-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



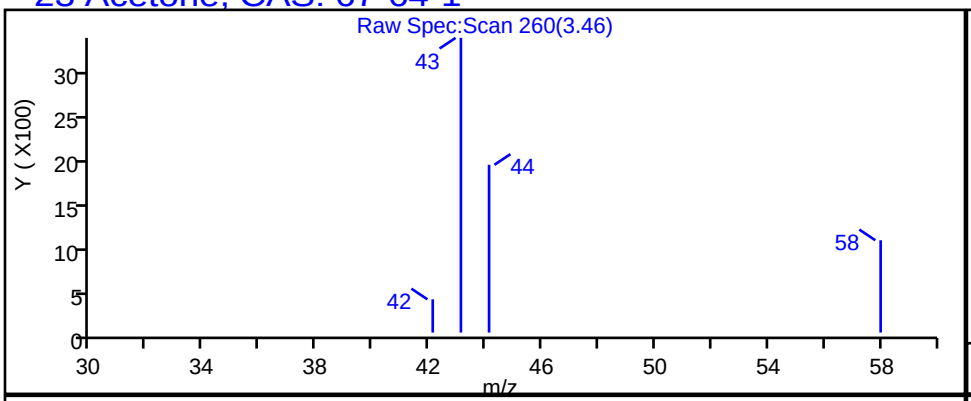
Report Date: 19-Mar-2019 10:13:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

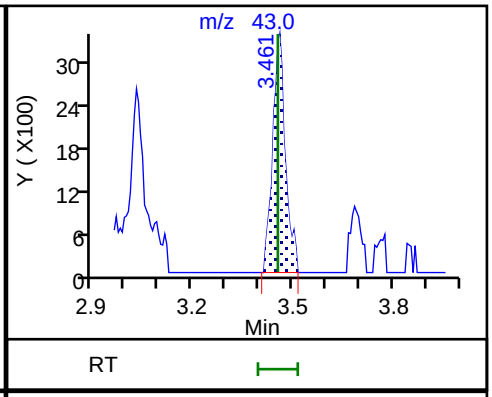
TestAmerica Buffalo

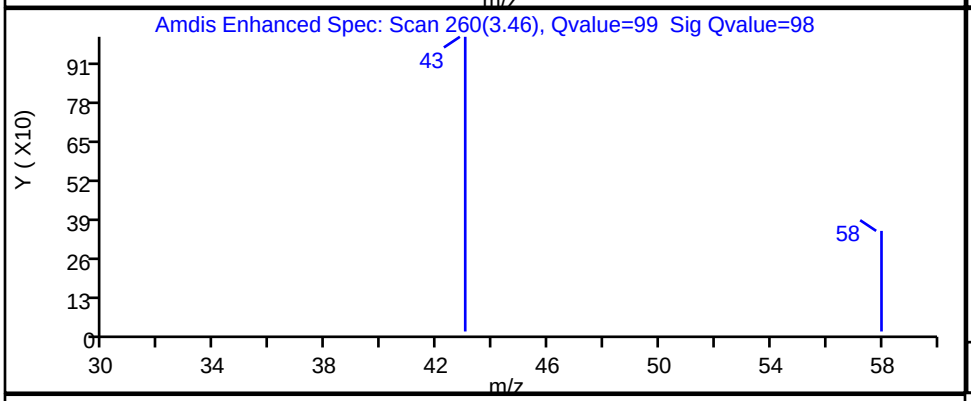
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9105.D

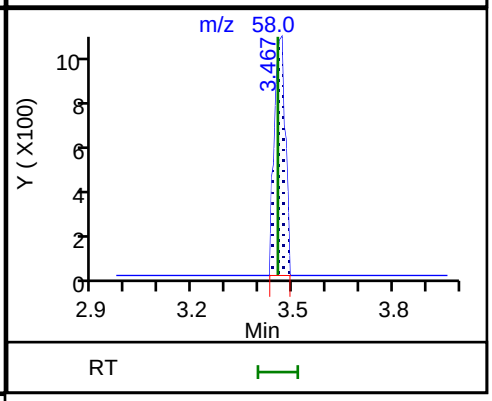
Injection Date:	18-Mar-2019 12:07:30	Instrument ID:	HP5973F
Lims ID:	480-150235-D-3-A	Lab Sample ID:	480-150235-3
Client ID:	PDI-27-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	1 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

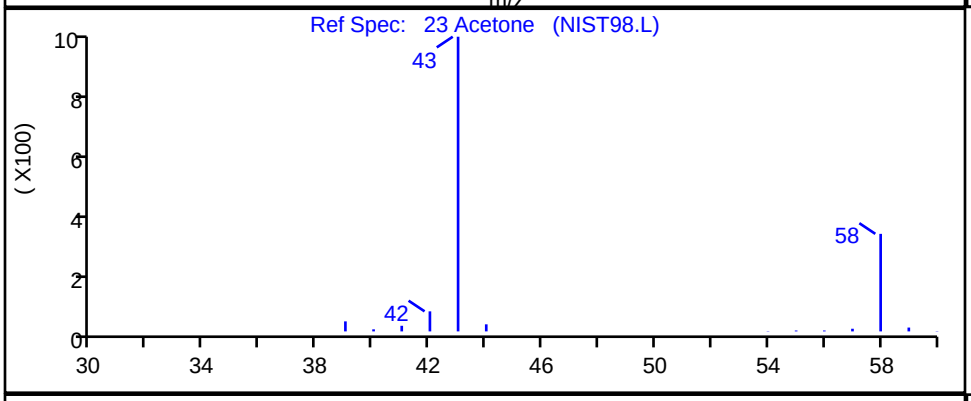
23 Acetone, CAS: 67-64-1

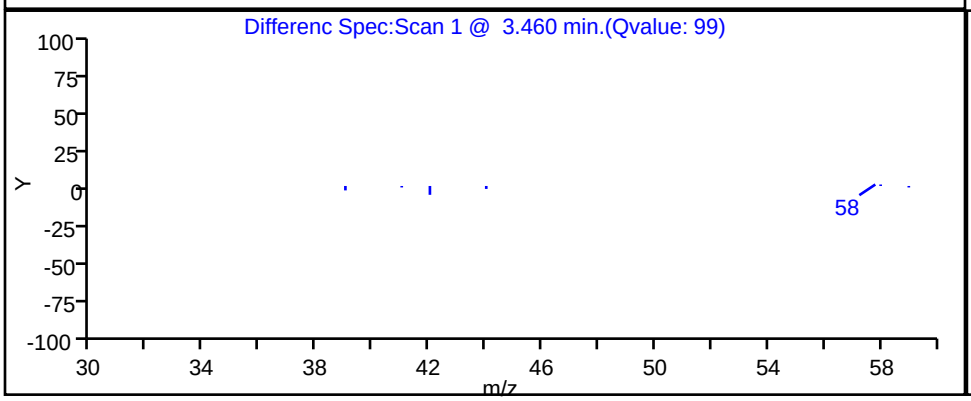


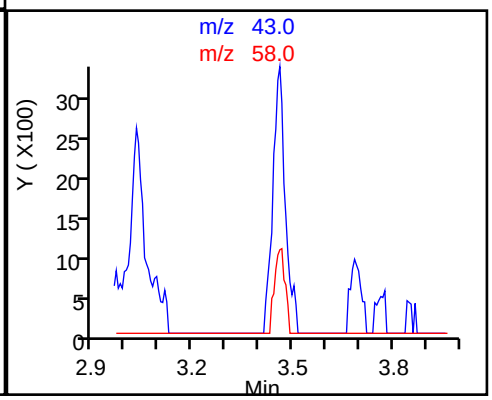












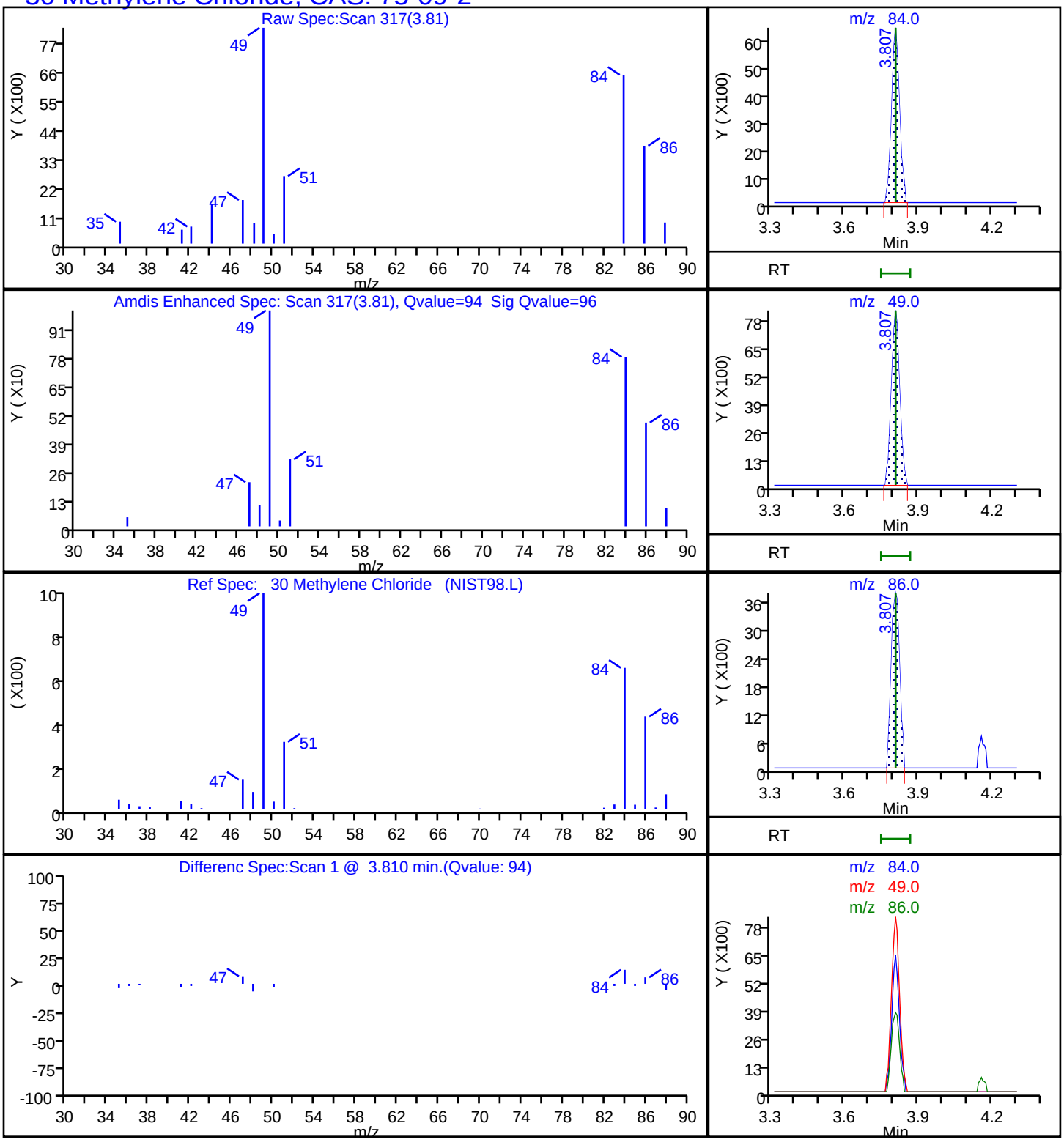
Report Date: 19-Mar-2019 10:13:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9105.D

Injection Date:	18-Mar-2019 12:07:30	Instrument ID:	HP5973F
Lims ID:	480-150235-D-3-A	Lab Sample ID:	480-150235-3
Client ID:	PDI-27-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	1 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-30-50-17.5-031219 | Lab Sample ID: 480-150235-4

Matrix: Solid | Lab File ID: F9093.D

Analysis Method: 8260C | Date Collected: 03/12/2019 10:30

Sample wt/vol: 7.03(g) | Date Analyzed: 03/15/2019 18:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 24.1 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.39	J	4.7	0.34
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.7	0.76
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1
79-00-5	1,1,2-Trichloroethane	ND		4.7	0.61
75-34-3	1,1-Dichloroethane	ND		4.7	0.57
75-35-4	1,1-Dichloroethene	ND		4.7	0.57
120-82-1	1,2,4-Trichlorobenzene	ND		4.7	0.28
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.7	2.3
95-50-1	1,2-Dichlorobenzene	ND		4.7	0.37
107-06-2	1,2-Dichloroethane	ND		4.7	0.24
78-87-5	1,2-Dichloropropane	ND		4.7	2.3
541-73-1	1,3-Dichlorobenzene	ND		4.7	0.24
106-46-7	1,4-Dichlorobenzene	ND		4.7	0.66
78-93-3	2-Butanone (MEK)	ND		23	1.7
591-78-6	2-Hexanone	ND		23	2.3
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		23	1.5
67-64-1	Acetone	13	J	23	3.9
71-43-2	Benzene	ND		4.7	0.23
75-25-2	Bromoform	ND		4.7	2.3
74-83-9	Bromomethane	ND		4.7	0.42
75-15-0	Carbon disulfide	ND		4.7	2.3
56-23-5	Carbon tetrachloride	ND		4.7	0.45
108-90-7	Chlorobenzene	ND		4.7	0.62
124-48-1	Dibromochloromethane	ND		4.7	0.60
75-00-3	Chloroethane	ND		4.7	1.1
67-66-3	Chloroform	ND		4.7	0.29
74-87-3	Chloromethane	ND		4.7	0.28
156-59-2	cis-1,2-Dichloroethene	4.9		4.7	0.60
110-82-7	Cyclohexane	ND		4.7	0.66
75-27-4	Bromodichloromethane	ND		4.7	0.63
75-71-8	Dichlorodifluoromethane	ND		4.7	0.39
100-41-4	Ethylbenzene	ND		4.7	0.32
106-93-4	1,2-Dibromoethane	ND		4.7	0.60
98-82-8	Isopropylbenzene	ND		4.7	0.71
79-20-9	Methyl acetate	ND		23	2.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-30-50-17.5-031219 | Lab Sample ID: 480-150235-4

Matrix: Solid | Lab File ID: F9093.D

Analysis Method: 8260C | Date Collected: 03/12/2019 10:30

Sample wt/vol: 7.03(g) | Date Analyzed: 03/15/2019 18:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 24.1 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.7	0.46
108-87-2	Methylcyclohexane	ND		4.7	0.71
75-09-2	Methylene Chloride	2.6	J	4.7	2.2
127-18-4	Tetrachloroethene	1.5	J	4.7	0.63
108-88-3	Toluene	ND		4.7	0.35
156-60-5	trans-1,2-Dichloroethene	ND		4.7	0.48
10061-02-6	trans-1,3-Dichloropropene	ND		4.7	2.1
79-01-6	Trichloroethene	29		4.7	1.0
75-69-4	Trichlorofluoromethane	ND		4.7	0.44
75-01-4	Vinyl chloride	ND		4.7	0.57
1330-20-7	Xylenes, Total	ND		9.4	0.79
10061-01-5	cis-1,3-Dichloropropene	ND		4.7	0.67
100-42-5	Styrene	ND		4.7	0.23

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	109		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D
Lims ID: 480-150235-C-4-A
Client ID: PDI-30-50-17.5-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 18:48:30 ALS Bottle#: 18 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-4-A
Misc. Info.: 480-0079401-025
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:34:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	142321	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	85	301893	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	272000	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	179833	54.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	119756	56.5	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	731674	51.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.782	-0.001	97	243404	50.8	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62		2.408				ND	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.461	3.449	0.012	100	21847	14.0	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.807	3.801	0.006	93	12075	2.78	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	23092	5.24	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	86	2162	0.4116	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	97	124311	30.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166	7.725	7.731	0.000	94	7846	1.62	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

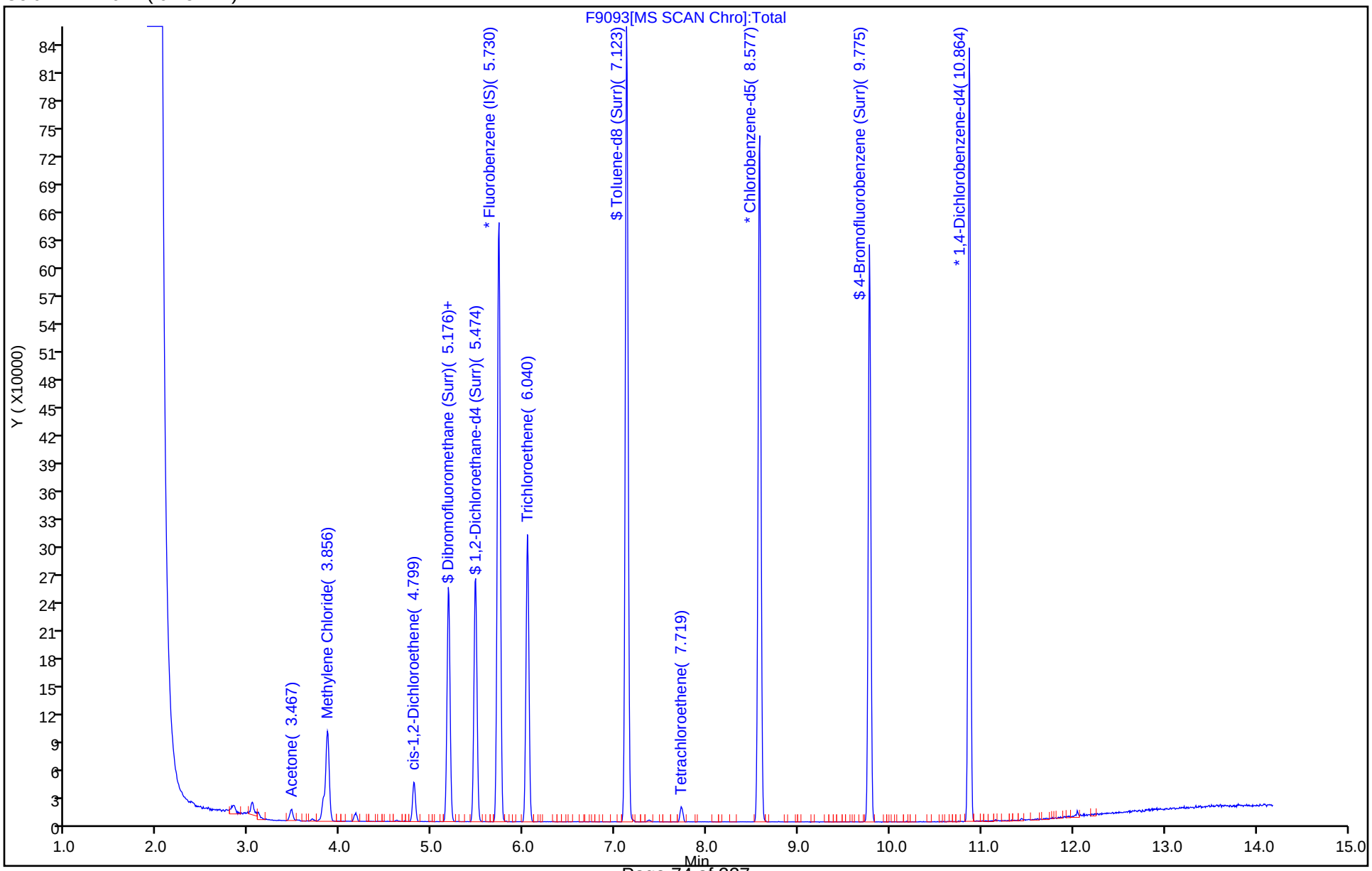
Report Date: 18-Mar-2019 08:34:25 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4	Worklist Smp#:	25
Client ID:	PDI-30-50-17.5-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



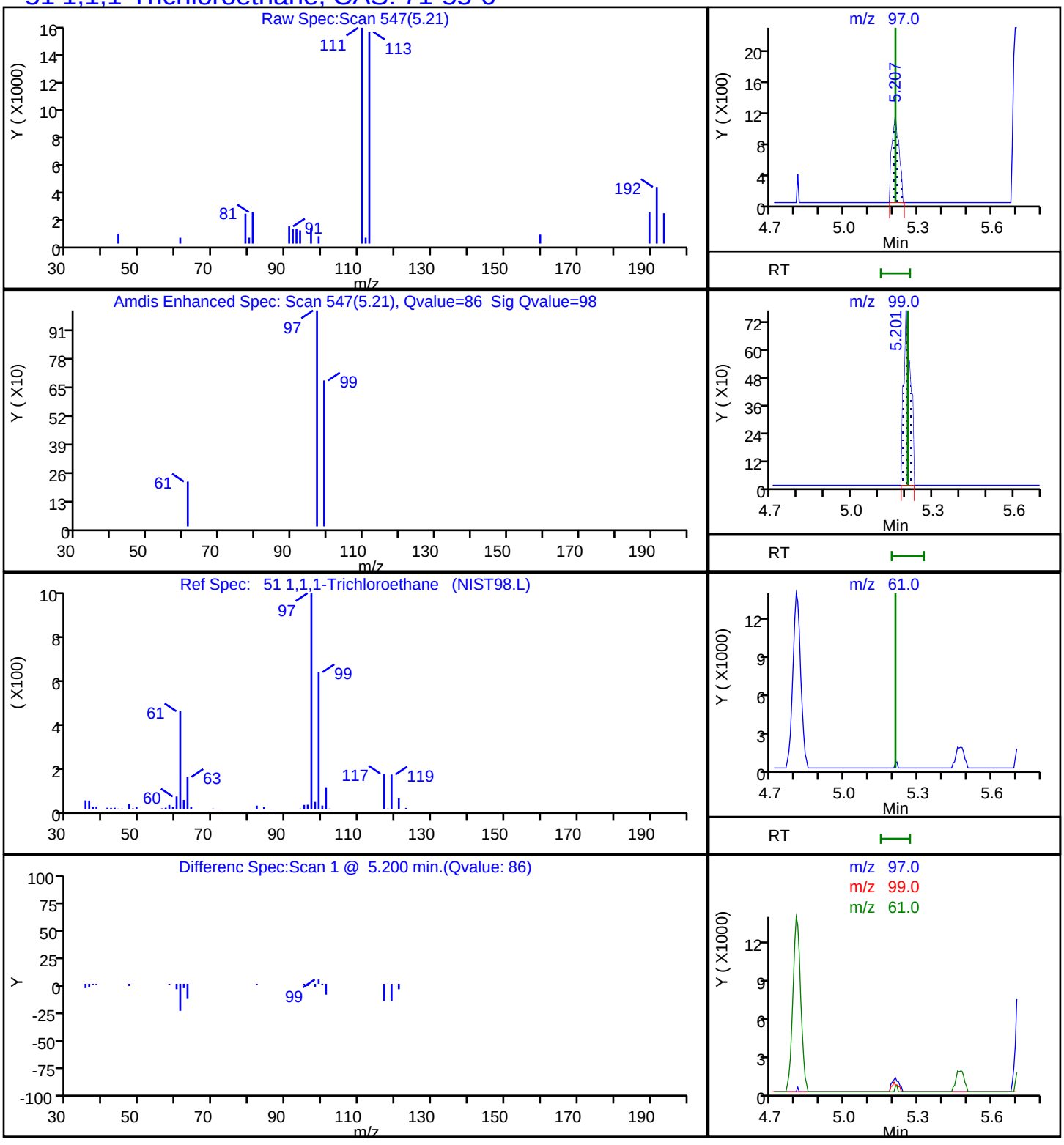
Report Date: 18-Mar-2019 08:34:25 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4
Client ID:	PDI-30-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	18 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

51 1,1,1-Trichloroethane, CAS: 71-55-6



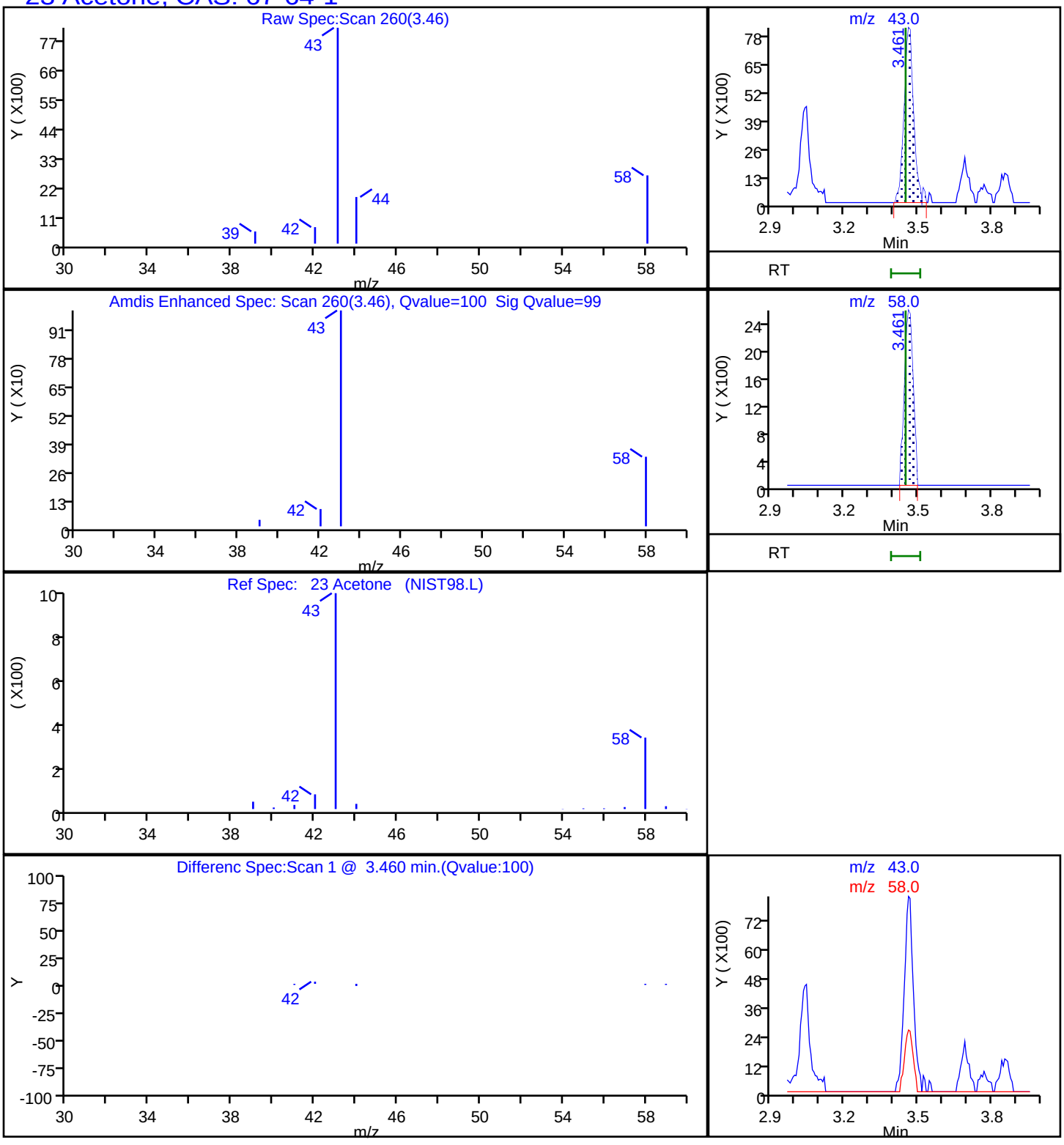
Report Date: 18-Mar-2019 08:34:25 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4		
Client ID:	PDI-30-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	18	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

23 Acetone, CAS: 67-64-1



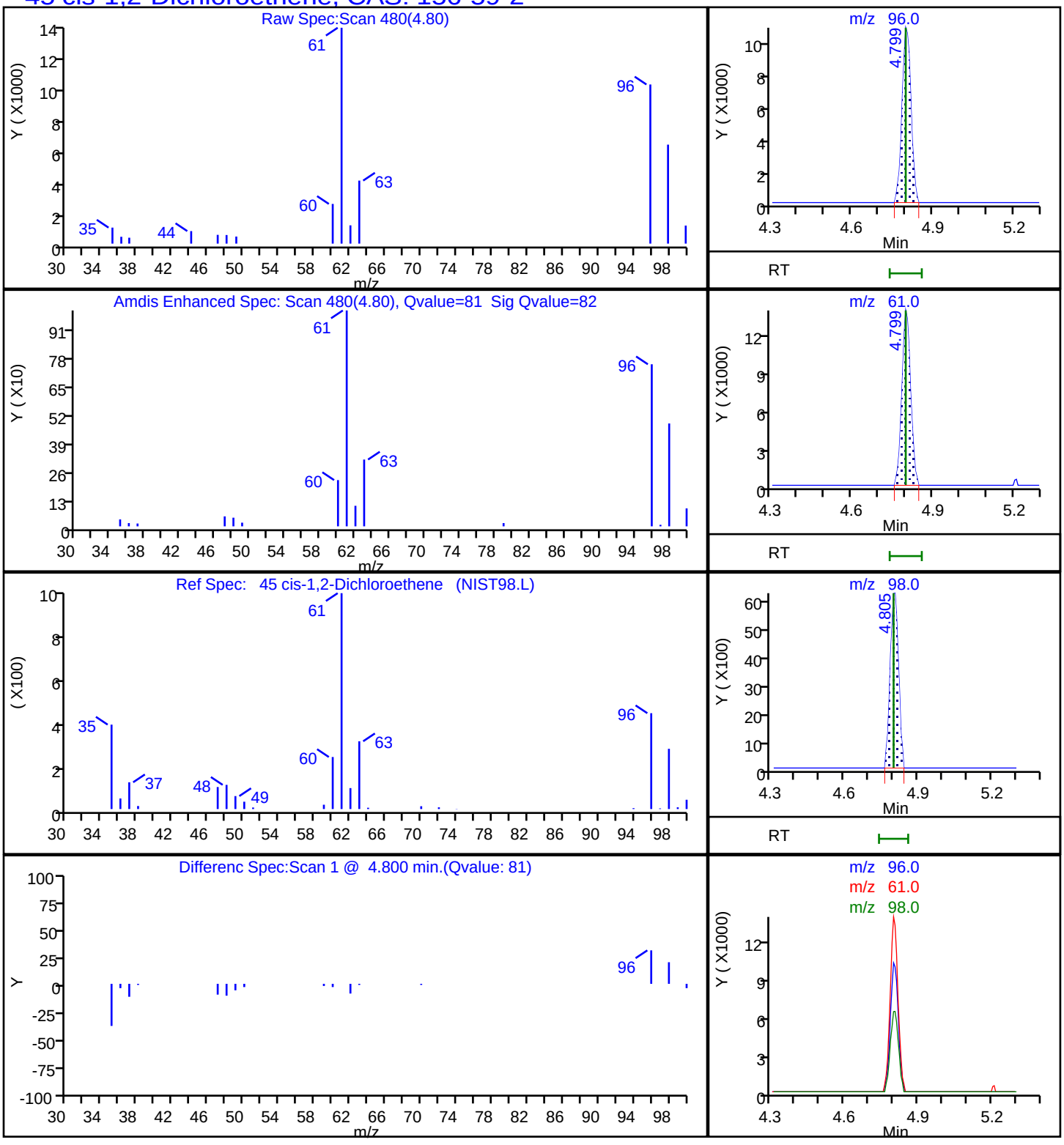
Report Date: 18-Mar-2019 08:34:25 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4		
Client ID:	PDI-30-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	18	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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



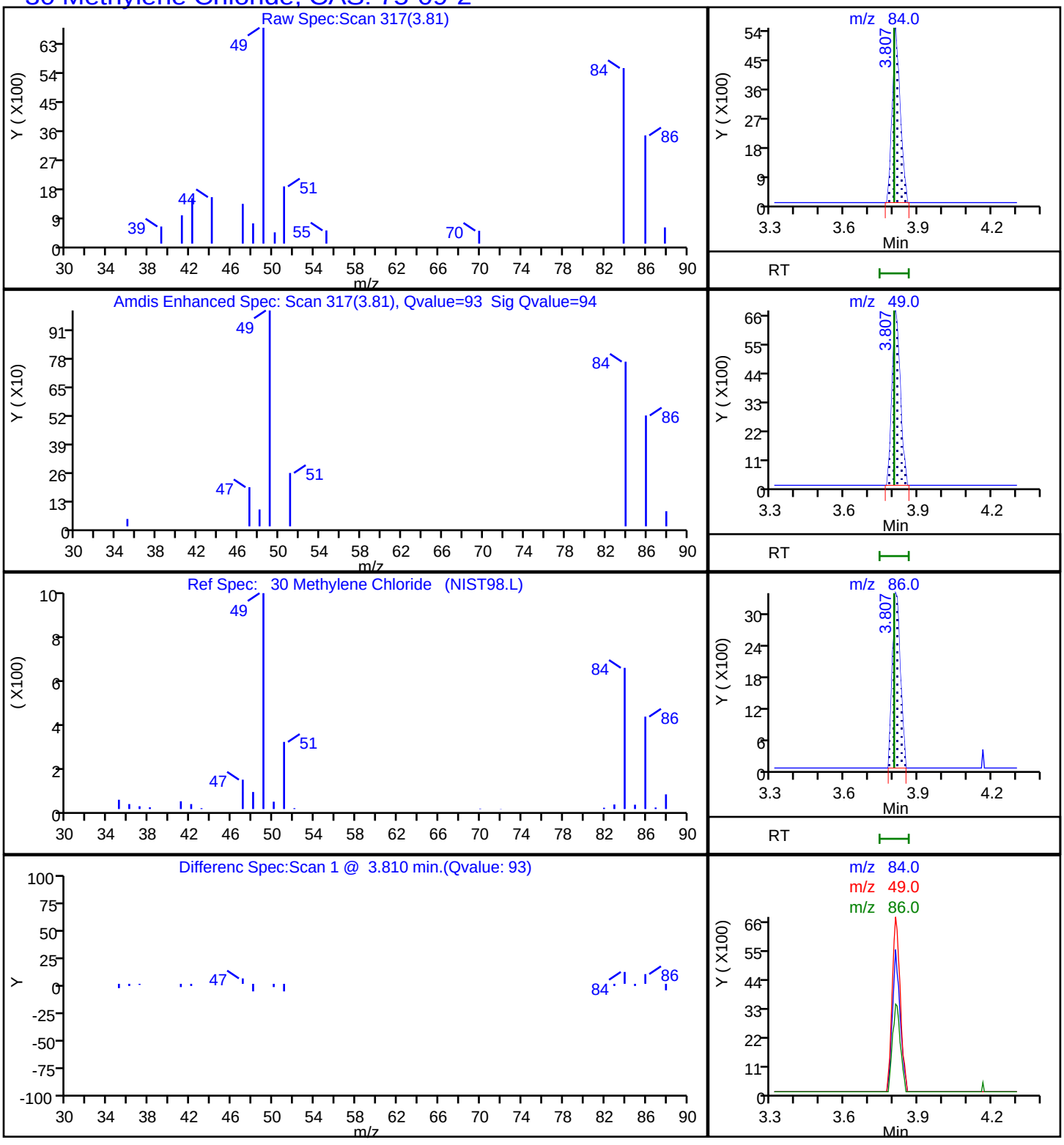
Report Date: 18-Mar-2019 08:34:25 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4		
Client ID:	PDI-30-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	18	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



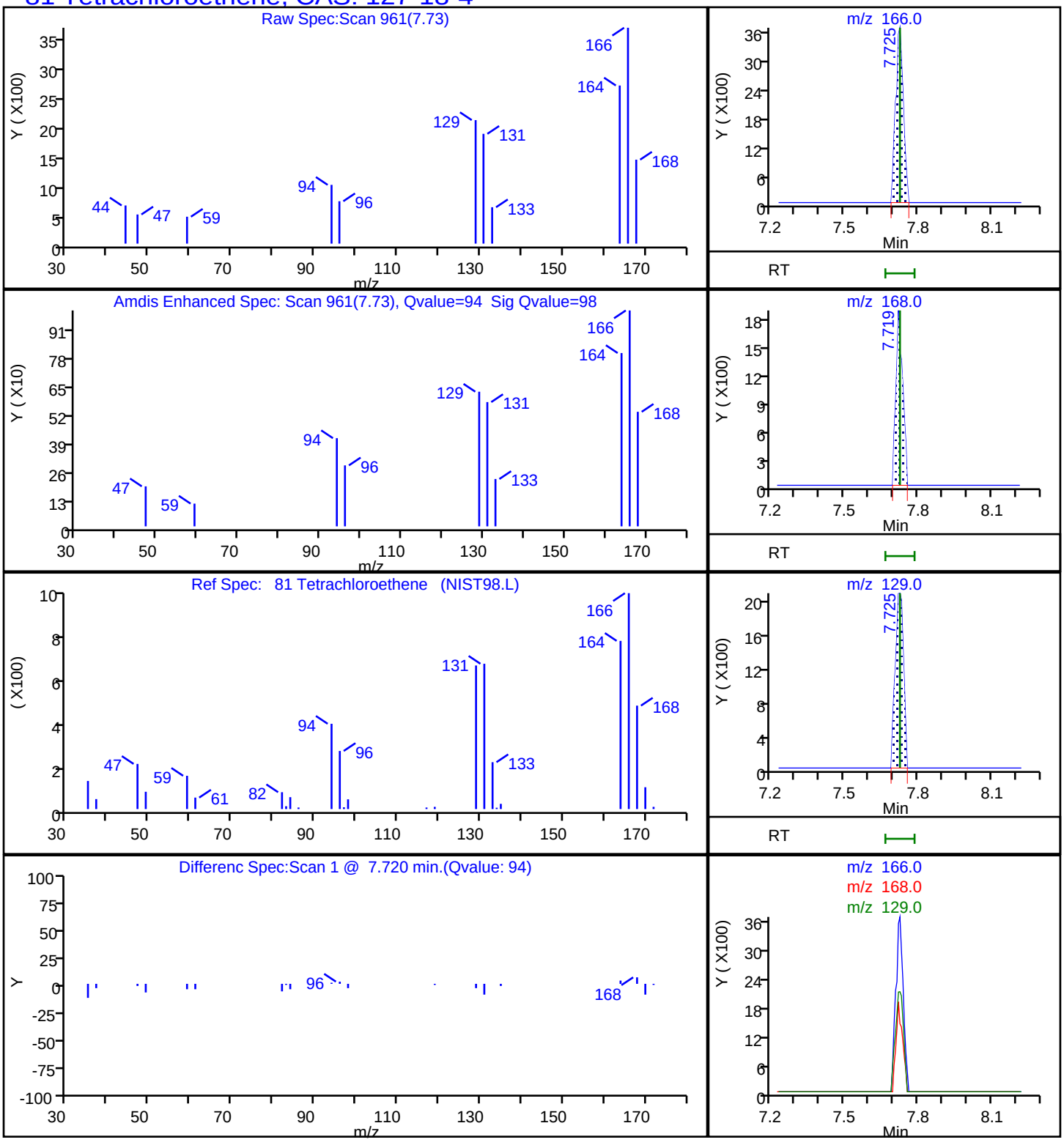
Report Date: 18-Mar-2019 08:34:26 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4
Client ID:	PDI-30-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	18 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

81 Tetrachloroethene, CAS: 127-18-4



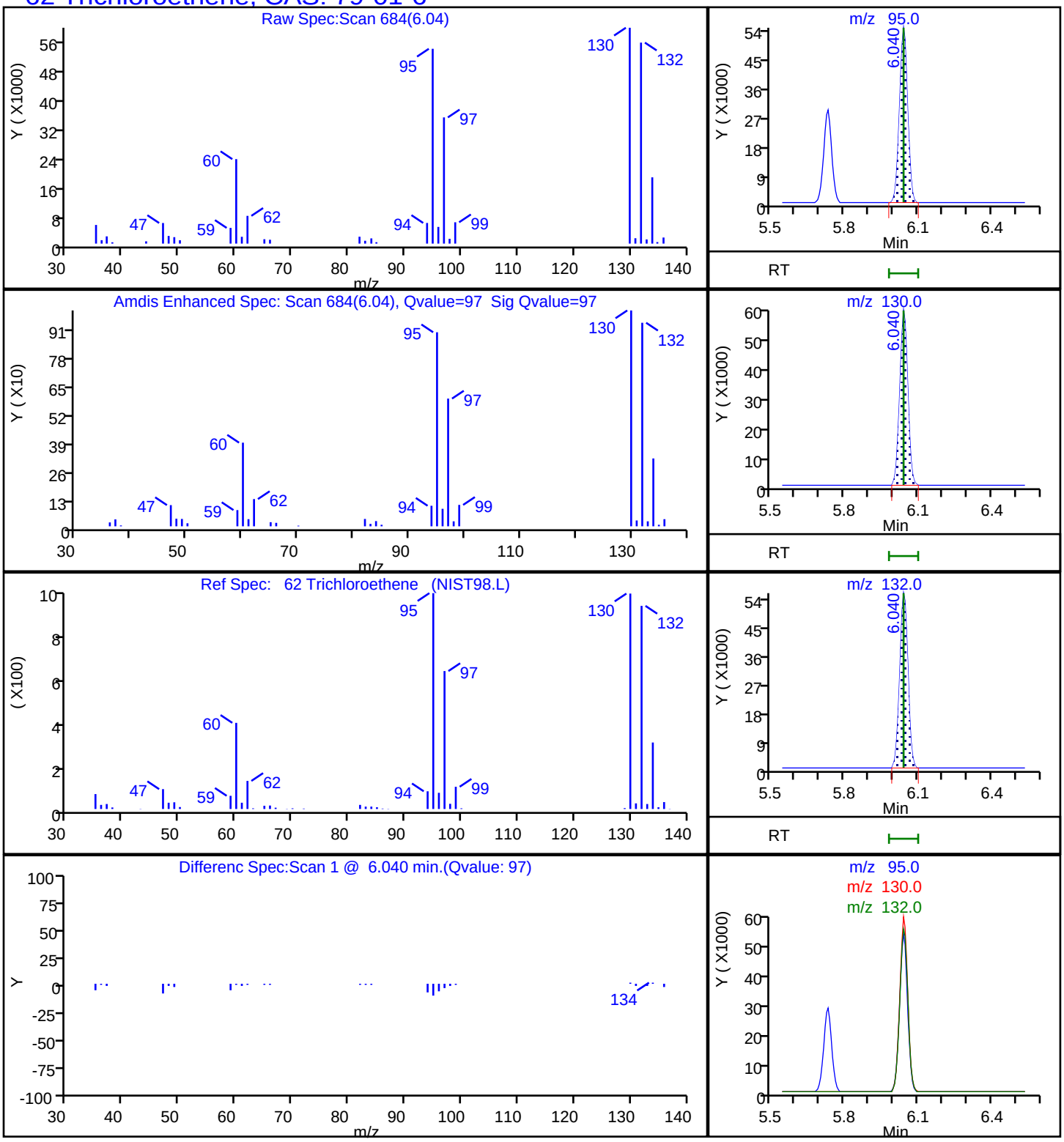
Report Date: 18-Mar-2019 08:34:26 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9093.D

Injection Date:	15-Mar-2019 18:48:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-4-A	Lab Sample ID:	480-150235-4
Client ID:	PDI-30-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	18 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-31-50-17.5-031219 | Lab Sample ID: 480-150235-5

Matrix: Solid | Lab File ID: F9094.D

Analysis Method: 8260C | Date Collected: 03/12/2019 11:00

Sample wt/vol: 6.39(g) | Date Analyzed: 03/15/2019 19:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.2 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.1	0.37
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.1	0.83
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2
79-00-5	1,1,2-Trichloroethane	ND		5.1	0.66
75-34-3	1,1-Dichloroethane	ND		5.1	0.62
75-35-4	1,1-Dichloroethene	ND		5.1	0.62
120-82-1	1,2,4-Trichlorobenzene	ND		5.1	0.31
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.1	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.1	0.40
107-06-2	1,2-Dichloroethane	ND		5.1	0.26
78-87-5	1,2-Dichloropropane	ND		5.1	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.1	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.1	0.71
78-93-3	2-Butanone (MEK)	ND		25	1.9
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.7
67-64-1	Acetone	8.3	J	25	4.3
71-43-2	Benzene	ND		5.1	0.25
75-25-2	Bromoform	ND		5.1	2.5
74-83-9	Bromomethane	ND		5.1	0.46
75-15-0	Carbon disulfide	ND		5.1	2.5
56-23-5	Carbon tetrachloride	ND		5.1	0.49
108-90-7	Chlorobenzene	ND		5.1	0.67
124-48-1	Dibromochloromethane	ND		5.1	0.65
75-00-3	Chloroethane	ND		5.1	1.2
67-66-3	Chloroform	ND		5.1	0.31
74-87-3	Chloromethane	ND		5.1	0.31
156-59-2	cis-1,2-Dichloroethene	3.7	J	5.1	0.65
110-82-7	Cyclohexane	ND		5.1	0.71
75-27-4	Bromodichloromethane	ND		5.1	0.68
75-71-8	Dichlorodifluoromethane	ND		5.1	0.42
100-41-4	Ethylbenzene	ND		5.1	0.35
106-93-4	1,2-Dibromoethane	ND		5.1	0.65
98-82-8	Isopropylbenzene	ND		5.1	0.77
79-20-9	Methyl acetate	ND		25	3.1

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-31-50-17.5-031219 | Lab Sample ID: 480-150235-5

Matrix: Solid | Lab File ID: F9094.D

Analysis Method: 8260C | Date Collected: 03/12/2019 11:00

Sample wt/vol: 6.39(g) | Date Analyzed: 03/15/2019 19:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 23.2 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.1	0.50
108-87-2	Methylcyclohexane	ND		5.1	0.77
75-09-2	Methylene Chloride	2.6	J	5.1	2.3
127-18-4	Tetrachloroethene	ND		5.1	0.68
108-88-3	Toluene	ND		5.1	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.1	0.53
10061-02-6	trans-1,3-Dichloropropene	ND		5.1	2.2
79-01-6	Trichloroethene	21		5.1	1.1
75-69-4	Trichlorofluoromethane	ND		5.1	0.48
75-01-4	Vinyl chloride	0.71	J	5.1	0.62
1330-20-7	Xylenes, Total	ND		10	0.86
10061-01-5	cis-1,3-Dichloropropene	ND		5.1	0.73
100-42-5	Styrene	ND		5.1	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		64-126
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	111		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D
Lims ID: 480-150235-C-5-A
Client ID: PDI-31-50-17.5-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 19:14:30 ALS Bottle#: 19 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-5-A
Misc. Info.: 480-0079401-026
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:34:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	136208	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	85	287866	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	262234	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	174254	55.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	116020	57.2	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	701475	51.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.782	0.000	97	231439	50.7	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62	2.402	2.408	-0.006	22	2283	0.6965	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.461	3.449	0.012	99	12136	8.14	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.808	3.801	0.007	93	10595	2.55	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	80	15157	3.59	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.040	6.040	0.000	97	79520	20.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166	7.725	7.731	0.000	68	1311	0.2834	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

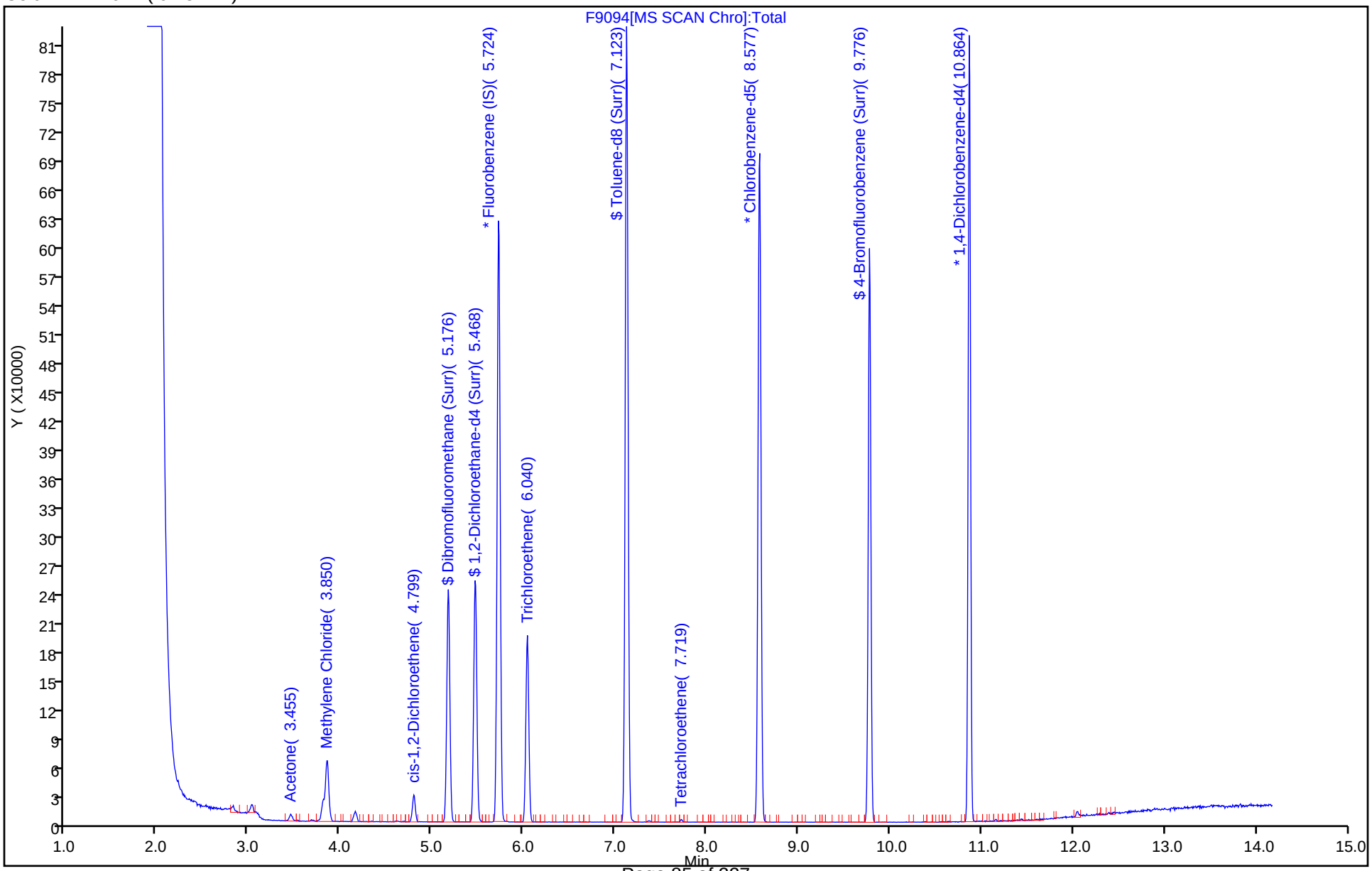
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5	Worklist Smp#:	26
Client ID:	PDI-31-50-17.5-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



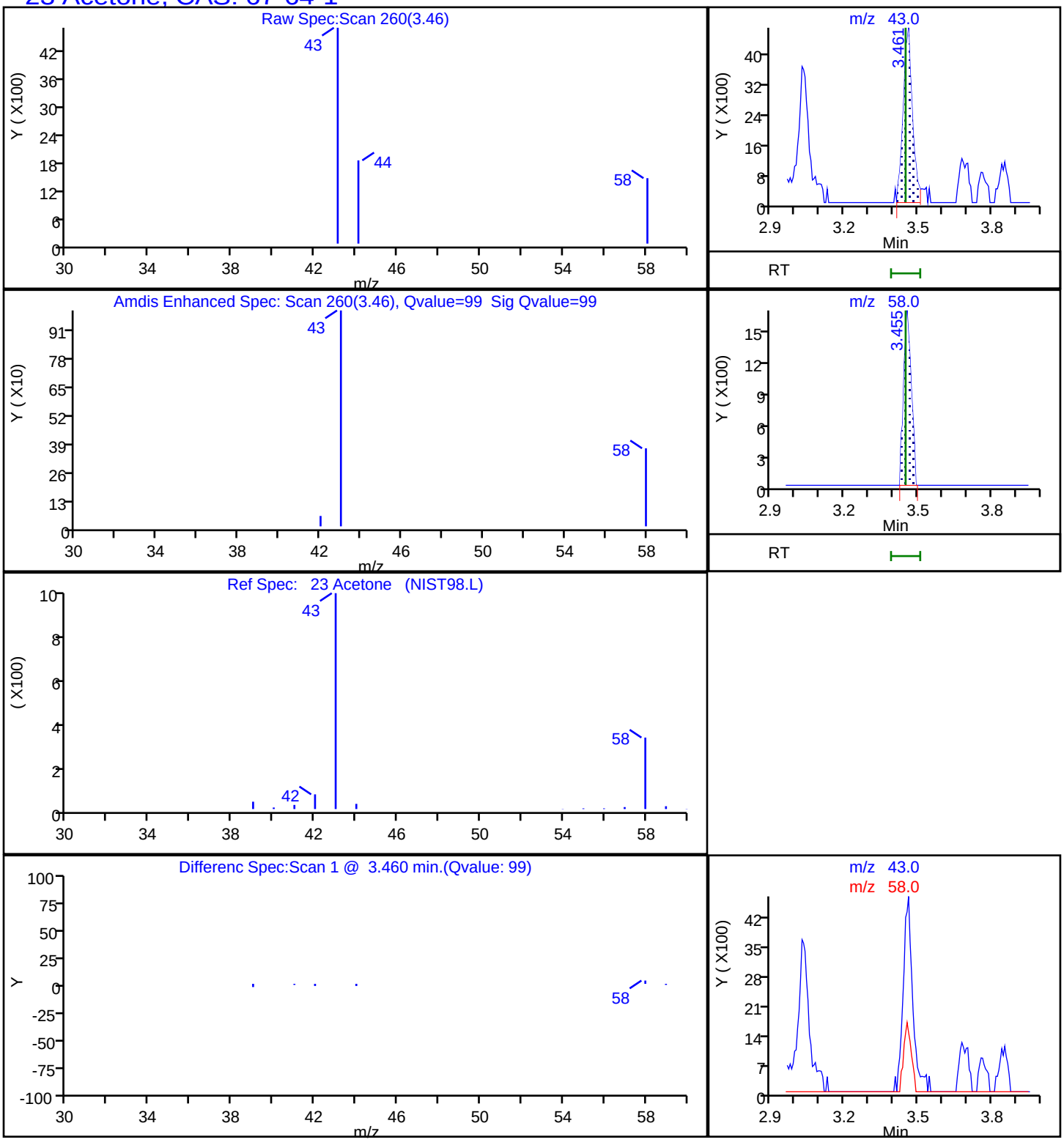
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5
Client ID:	PDI-31-50-17.5-031219		
Operator ID:	CDC	ALS Bottle#:	19 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



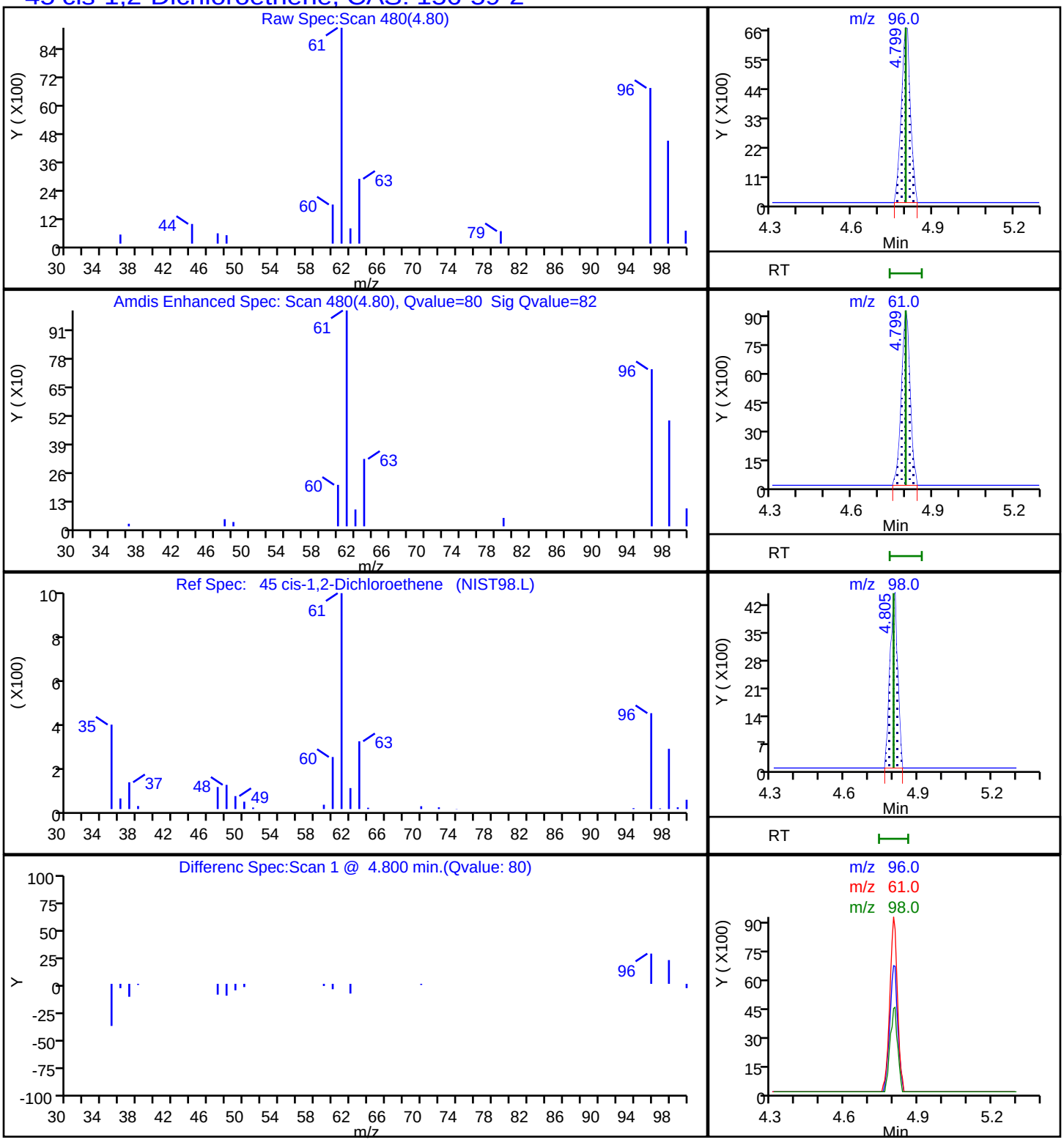
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5		
Client ID:	PDI-31-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	19	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

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



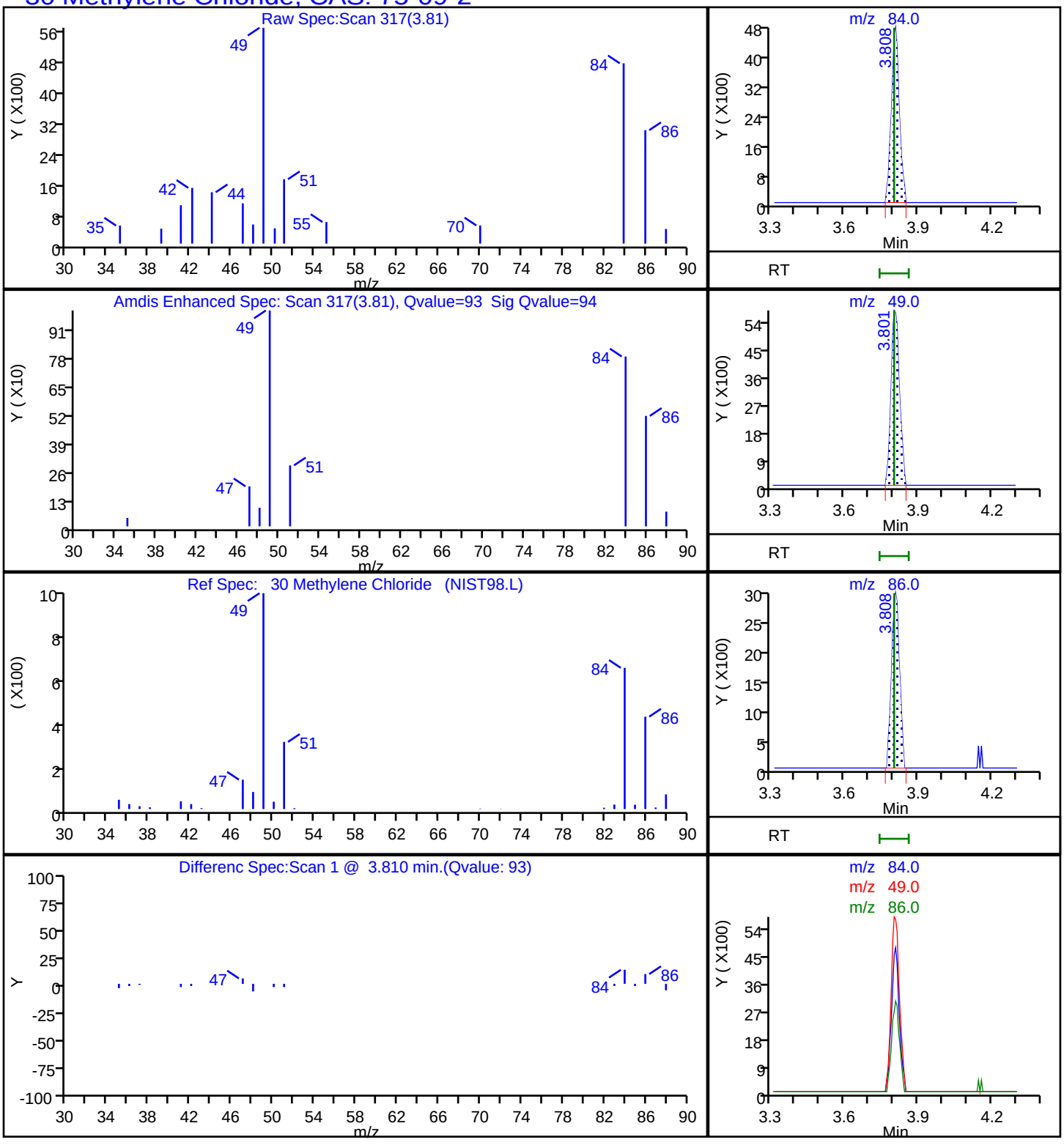
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5		
Client ID:	PDI-31-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	19	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



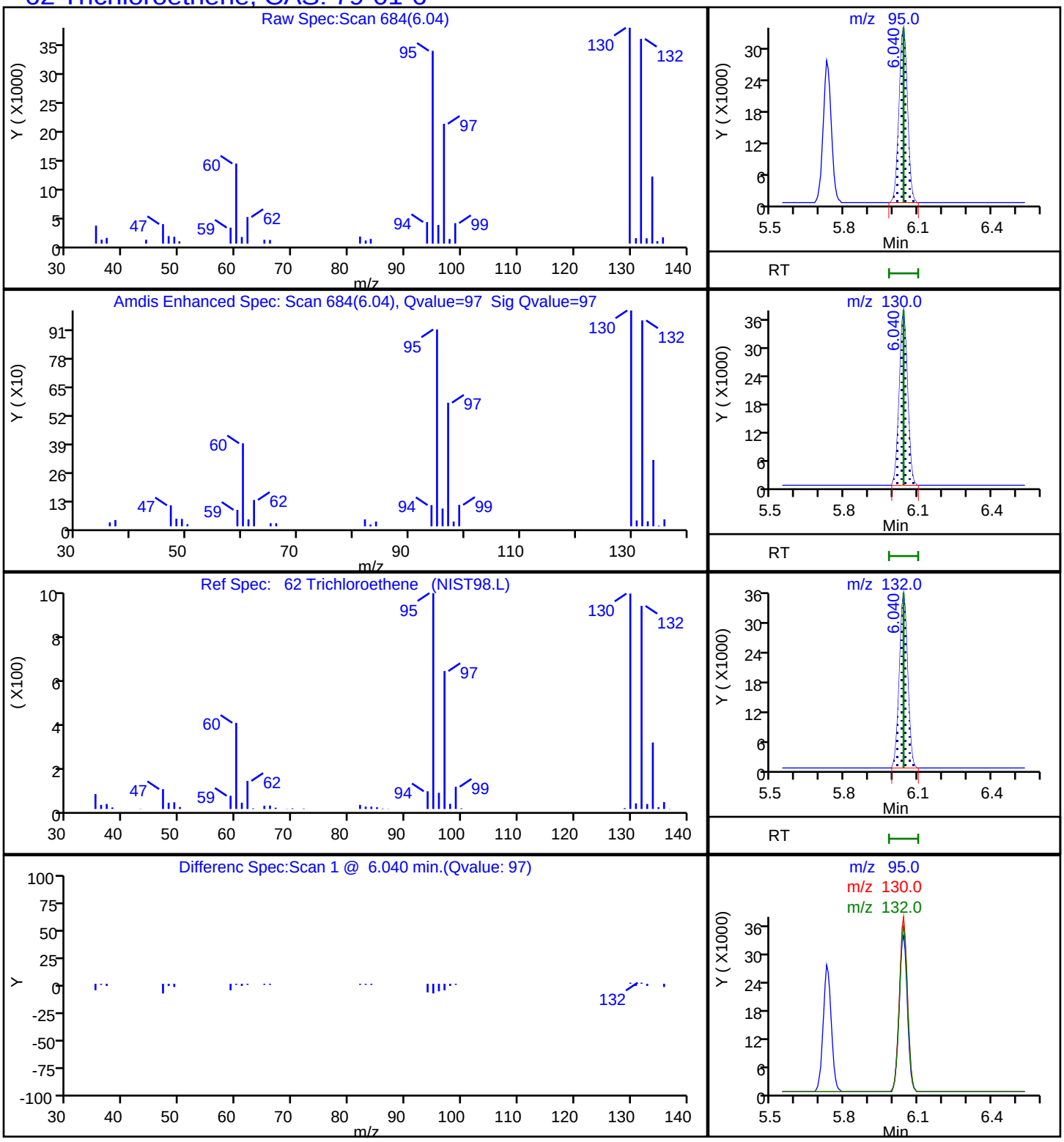
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5		
Client ID:	PDI-31-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	19	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

62 Trichloroethene, CAS: 79-01-6



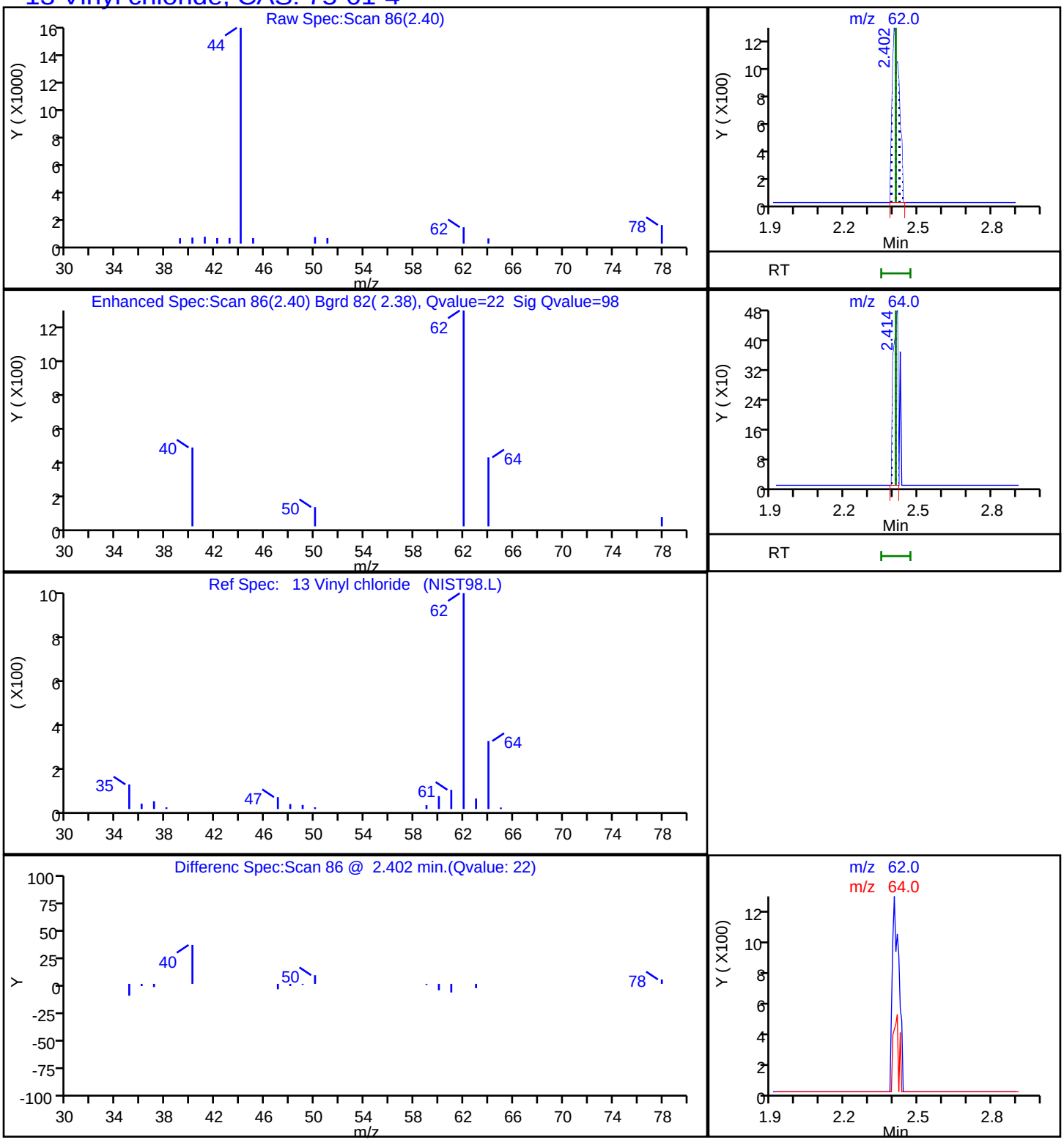
Report Date: 18-Mar-2019 08:34:54 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9094.D

Injection Date:	15-Mar-2019 19:14:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-5-A	Lab Sample ID:	480-150235-5		
Client ID:	PDI-31-50-17.5-031219				
Operator ID:	CDC	ALS Bottle#:	19	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

13 Vinyl chloride, CAS: 75-01-4



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-32-50-16-031219 | Lab Sample ID: 480-150235-6

Matrix: Solid | Lab File ID: F9095.D

Analysis Method: 8260C | Date Collected: 03/12/2019 11:30

Sample wt/vol: 7.67(g) | Date Analyzed: 03/15/2019 19:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.3 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.2	0.30
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.2	0.68
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2	0.96
79-00-5	1,1,2-Trichloroethane	ND		4.2	0.55
75-34-3	1,1-Dichloroethane	ND		4.2	0.51
75-35-4	1,1-Dichloroethene	ND		4.2	0.51
120-82-1	1,2,4-Trichlorobenzene	ND		4.2	0.25
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.2	2.1
95-50-1	1,2-Dichlorobenzene	ND		4.2	0.33
107-06-2	1,2-Dichloroethane	ND		4.2	0.21
78-87-5	1,2-Dichloropropane	ND		4.2	2.1
541-73-1	1,3-Dichlorobenzene	ND		4.2	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.2	0.59
78-93-3	2-Butanone (MEK)	ND		21	1.5
591-78-6	2-Hexanone	ND		21	2.1
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		21	1.4
67-64-1	Acetone	5.6	J	21	3.5
71-43-2	Benzene	ND		4.2	0.21
75-25-2	Bromoform	ND		4.2	2.1
74-83-9	Bromomethane	ND		4.2	0.38
75-15-0	Carbon disulfide	ND		4.2	2.1
56-23-5	Carbon tetrachloride	ND		4.2	0.41
108-90-7	Chlorobenzene	ND		4.2	0.55
124-48-1	Dibromochloromethane	ND		4.2	0.54
75-00-3	Chloroethane	ND		4.2	0.95
67-66-3	Chloroform	ND		4.2	0.26
74-87-3	Chloromethane	ND		4.2	0.25
156-59-2	cis-1,2-Dichloroethene	ND		4.2	0.54
110-82-7	Cyclohexane	ND		4.2	0.59
75-27-4	Bromodichloromethane	ND		4.2	0.56
75-71-8	Dichlorodifluoromethane	ND		4.2	0.35
100-41-4	Ethylbenzene	ND		4.2	0.29
106-93-4	1,2-Dibromoethane	ND		4.2	0.54
98-82-8	Isopropylbenzene	ND		4.2	0.63
79-20-9	Methyl acetate	ND		21	2.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-32-50-16-031219 | Lab Sample ID: 480-150235-6

Matrix: Solid | Lab File ID: F9095.D

Analysis Method: 8260C | Date Collected: 03/12/2019 11:30

Sample wt/vol: 7.67(g) | Date Analyzed: 03/15/2019 19:40

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 22.3 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.2	0.41
108-87-2	Methylcyclohexane	ND		4.2	0.64
75-09-2	Methylene Chloride	2.2	J	4.2	1.9
127-18-4	Tetrachloroethene	ND		4.2	0.56
108-88-3	Toluene	ND		4.2	0.32
156-60-5	trans-1,2-Dichloroethene	ND		4.2	0.43
10061-02-6	trans-1,3-Dichloropropene	ND		4.2	1.8
79-01-6	Trichloroethene	ND		4.2	0.92
75-69-4	Trichlorofluoromethane	ND		4.2	0.40
75-01-4	Vinyl chloride	ND		4.2	0.51
1330-20-7	Xylenes, Total	ND		8.4	0.70
10061-01-5	cis-1,3-Dichloropropene	ND		4.2	0.60
100-42-5	Styrene	ND		4.2	0.21

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		64-126
460-00-4	4-Bromofluorobenzene (Surr)	101		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	110		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9095.D
Lims ID: 480-150235-C-6-A
Client ID: PDI-32-50-16-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 19:40:30 ALS Bottle#: 20 Worklist Smp#: 27
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-6-A
Misc. Info.: 480-0079401-027
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:35:22

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	142812	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	85	301692	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.865	10.864	0.001	94	276615	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	94	181747	55.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	120557	56.7	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	729527	51.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.782	0.000	97	242501	50.7	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62		2.408				ND	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.461	3.449	0.012	98	10424	6.67	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.808	3.801	0.007	95	11215	2.57	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96		4.799				ND	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.046	6.040	0.006	79	828	0.2036	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166		7.725				ND	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

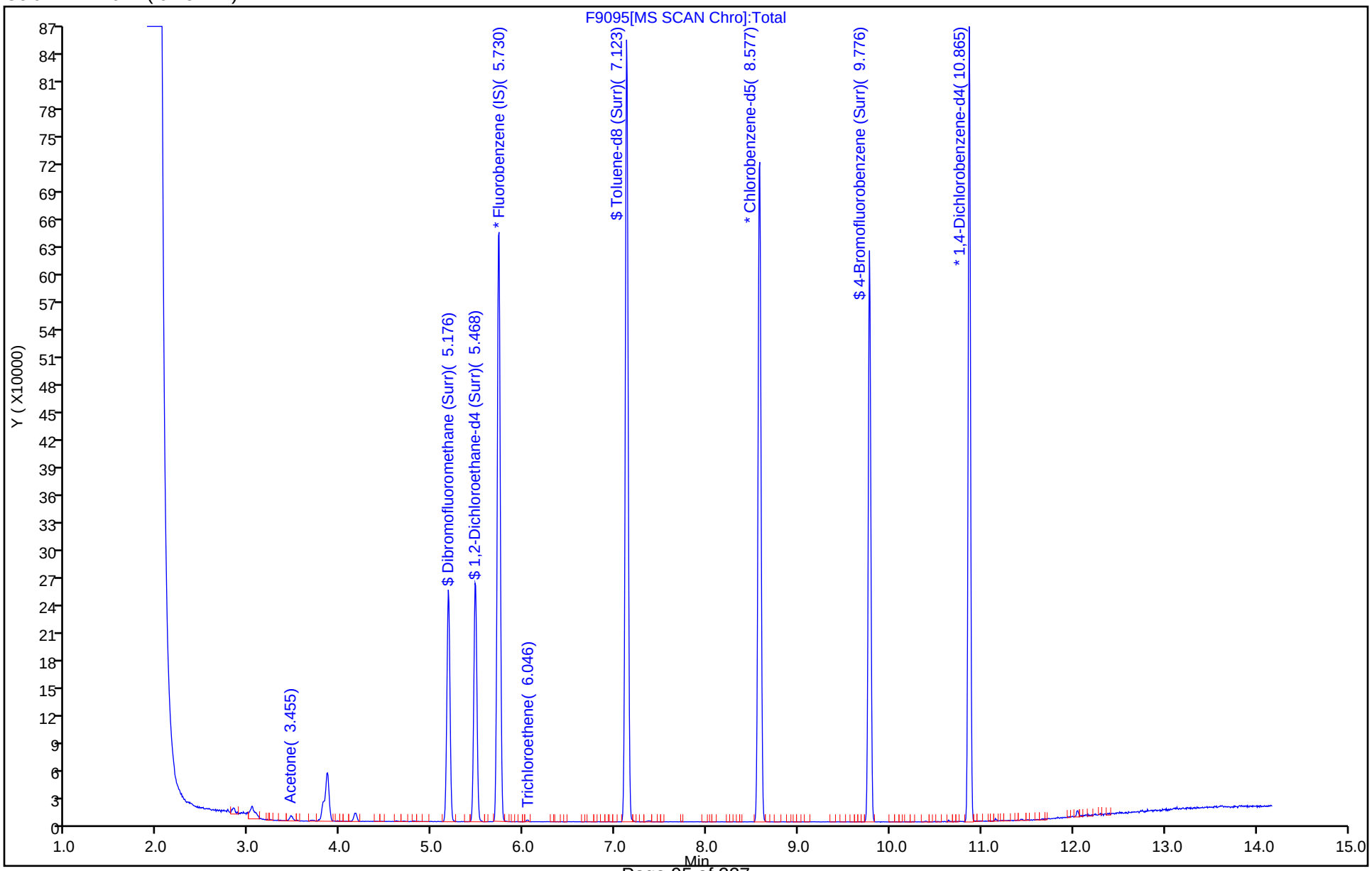
Report Date: 18-Mar-2019 08:35:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9095.D

Injection Date:	15-Mar-2019 19:40:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-6-A	Lab Sample ID:	480-150235-6	Worklist Smp#:	27
Client ID:	PDI-32-50-16-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



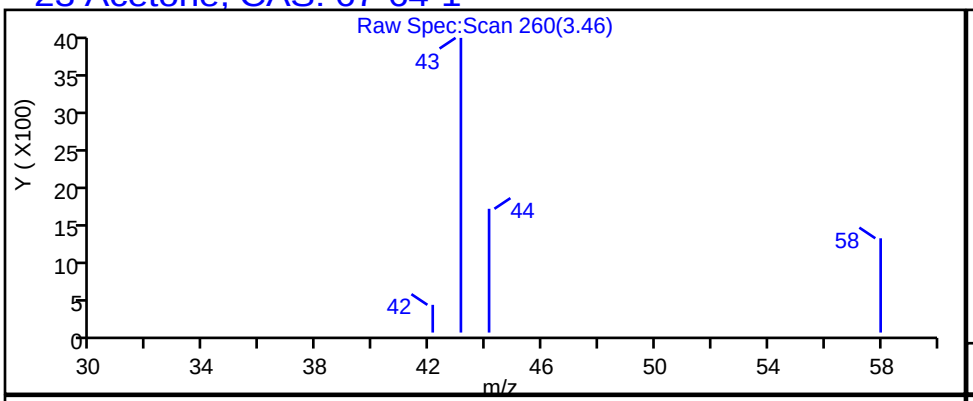
Report Date: 18-Mar-2019 08:35:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

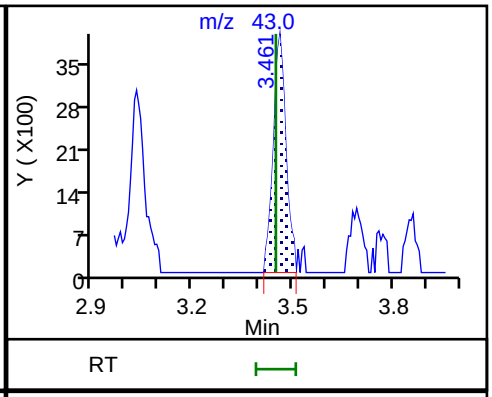
TestAmerica Buffalo

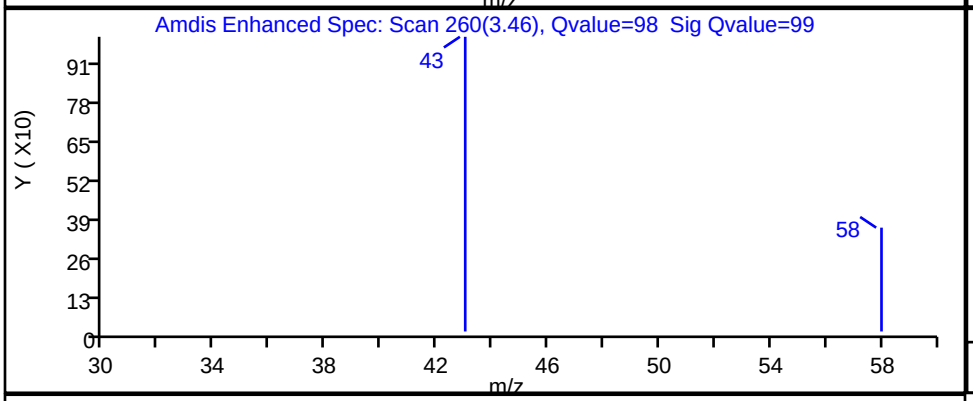
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9095.D

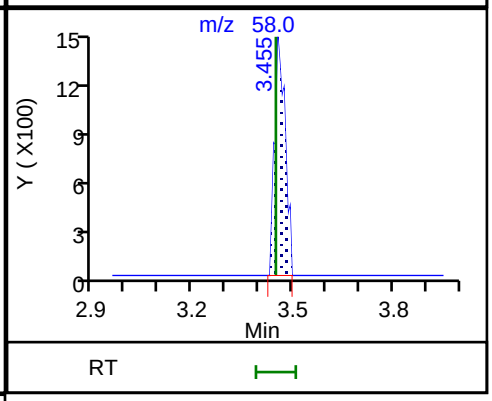
Injection Date:	15-Mar-2019 19:40:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-6-A	Lab Sample ID:	480-150235-6
Client ID:	PDI-32-50-16-031219		
Operator ID:	CDC	ALS Bottle#:	20 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

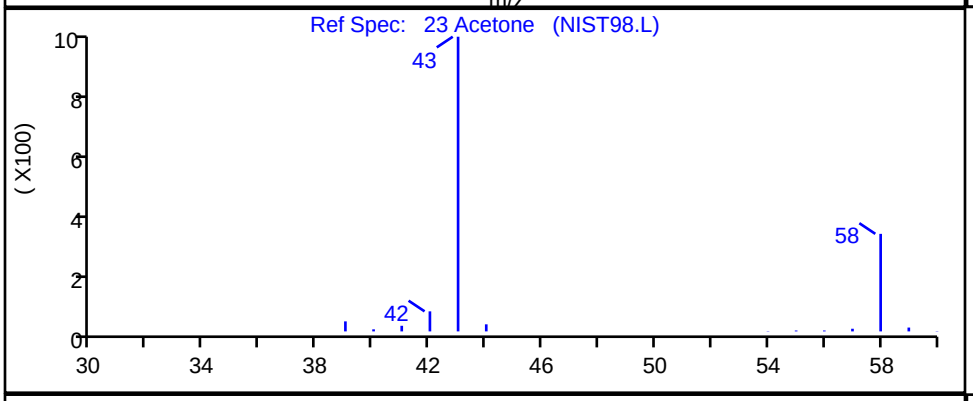
23 Acetone, CAS: 67-64-1

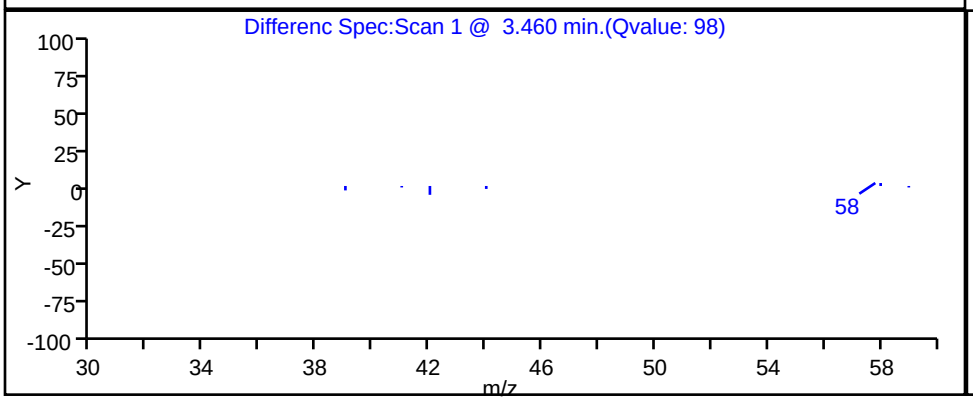


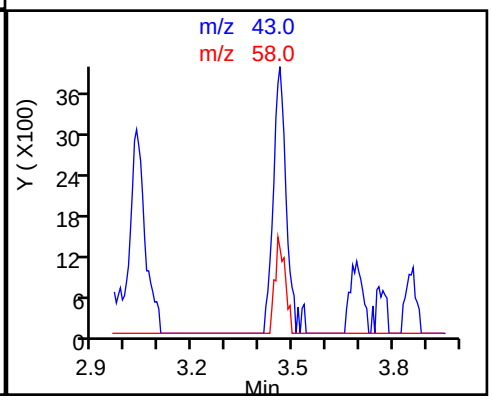












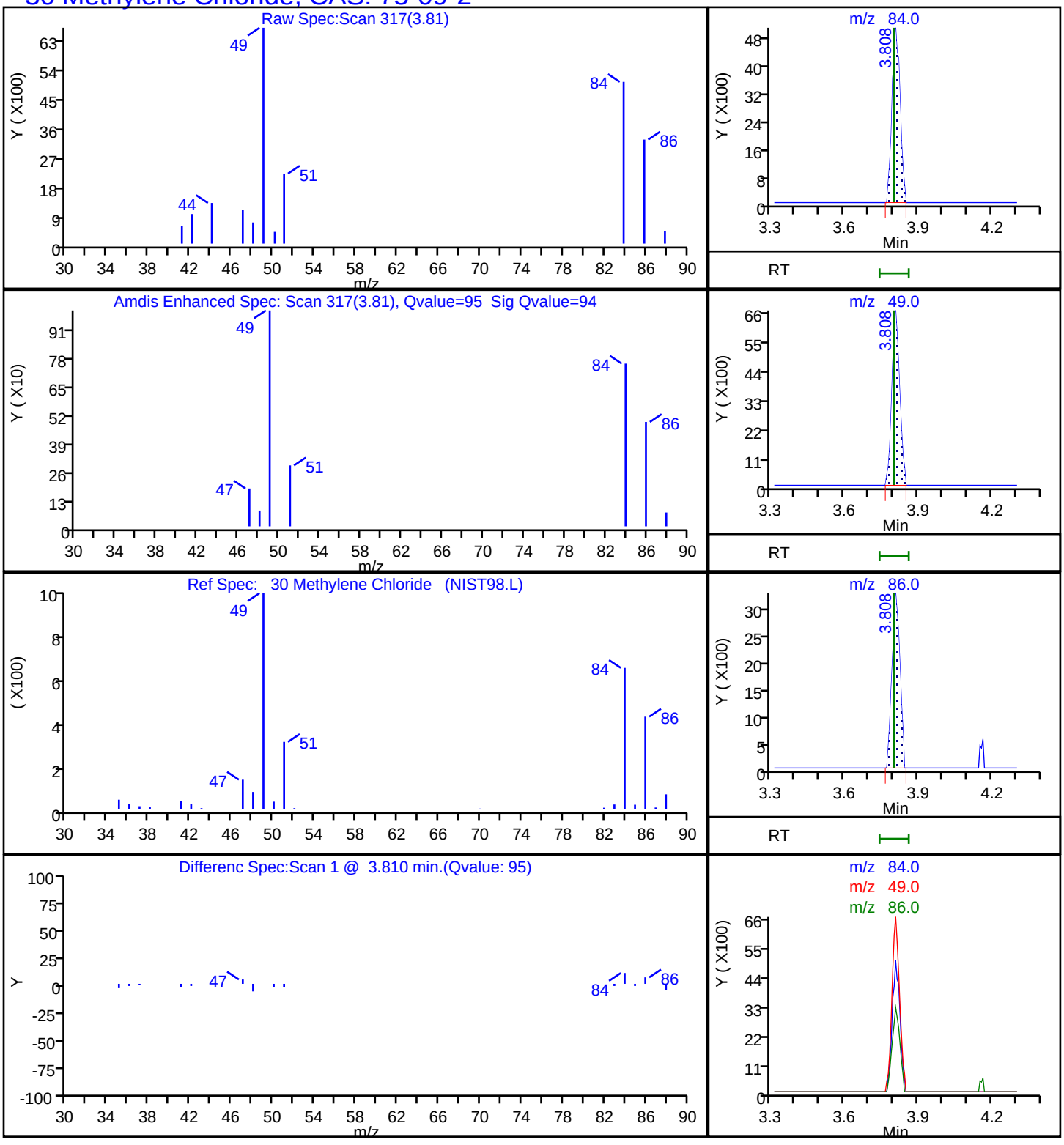
Report Date: 18-Mar-2019 08:35:22 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9095.D

Injection Date:	15-Mar-2019 19:40:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-6-A	Lab Sample ID:	480-150235-6
Client ID:	PDI-32-50-16-031219		
Operator ID:	CDC	ALS Bottle#:	20 Worklist Smp#: 27
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-28-50-16-031219 | Lab Sample ID: 480-150235-7

Matrix: Solid | Lab File ID: F9096.D

Analysis Method: 8260C | Date Collected: 03/12/2019 12:15

Sample wt/vol: 7.44(g) | Date Analyzed: 03/15/2019 20:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		4.3	0.31
79-34-5	1,1,2,2-Tetrachloroethane	ND		4.3	0.70
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98
79-00-5	1,1,2-Trichloroethane	ND		4.3	0.56
75-34-3	1,1-Dichloroethane	ND		4.3	0.52
75-35-4	1,1-Dichloroethene	ND		4.3	0.53
120-82-1	1,2,4-Trichlorobenzene	ND		4.3	0.26
96-12-8	1,2-Dibromo-3-Chloropropane	ND		4.3	2.2
95-50-1	1,2-Dichlorobenzene	ND		4.3	0.34
107-06-2	1,2-Dichloroethane	ND		4.3	0.22
78-87-5	1,2-Dichloropropane	ND		4.3	2.2
541-73-1	1,3-Dichlorobenzene	ND		4.3	0.22
106-46-7	1,4-Dichlorobenzene	ND		4.3	0.60
78-93-3	2-Butanone (MEK)	ND		22	1.6
591-78-6	2-Hexanone	ND		22	2.2
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		22	1.4
67-64-1	Acetone	7.0	J	22	3.6
71-43-2	Benzene	ND		4.3	0.21
75-25-2	Bromoform	ND		4.3	2.2
74-83-9	Bromomethane	ND		4.3	0.39
75-15-0	Carbon disulfide	ND		4.3	2.2
56-23-5	Carbon tetrachloride	ND		4.3	0.42
108-90-7	Chlorobenzene	ND		4.3	0.57
124-48-1	Dibromochloromethane	ND		4.3	0.55
75-00-3	Chloroethane	ND		4.3	0.97
67-66-3	Chloroform	ND		4.3	0.27
74-87-3	Chloromethane	ND		4.3	0.26
156-59-2	cis-1,2-Dichloroethene	ND		4.3	0.55
110-82-7	Cyclohexane	ND		4.3	0.60
75-27-4	Bromodichloromethane	ND		4.3	0.58
75-71-8	Dichlorodifluoromethane	ND		4.3	0.36
100-41-4	Ethylbenzene	ND		4.3	0.30
106-93-4	1,2-Dibromoethane	ND		4.3	0.55
98-82-8	Isopropylbenzene	ND		4.3	0.65
79-20-9	Methyl acetate	ND		22	2.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: PDI-28-50-16-031219 | Lab Sample ID: 480-150235-7

Matrix: Solid | Lab File ID: F9096.D

Analysis Method: 8260C | Date Collected: 03/12/2019 12:15

Sample wt/vol: 7.44(g) | Date Analyzed: 03/15/2019 20:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

% Moisture: 21.9 | Level: (low/med) Low

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		4.3	0.42
108-87-2	Methylcyclohexane	ND		4.3	0.65
75-09-2	Methylene Chloride	2.3	J	4.3	2.0
127-18-4	Tetrachloroethene	ND		4.3	0.58
108-88-3	Toluene	ND		4.3	0.33
156-60-5	trans-1,2-Dichloroethene	ND		4.3	0.44
10061-02-6	trans-1,3-Dichloropropene	ND		4.3	1.9
79-01-6	Trichloroethene	2.3	J	4.3	0.95
75-69-4	Trichlorofluoromethane	ND		4.3	0.41
75-01-4	Vinyl chloride	ND		4.3	0.52
1330-20-7	Xylenes, Total	ND		8.6	0.72
10061-01-5	cis-1,3-Dichloropropene	ND		4.3	0.62
100-42-5	Styrene	ND		4.3	0.22

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		64-126
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126
2037-26-5	Toluene-d8 (Surr)	103		71-125
1868-53-7	Dibromofluoromethane (Surr)	109		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9096.D
Lims ID: 480-150235-C-7-A
Client ID: PDI-28-50-16-031219
Sample Type: Client
Inject. Date: 15-Mar-2019 20:06:30 ALS Bottle#: 21 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 480-150235-C-7-A
Misc. Info.: 480-0079401-028
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 08:35:51

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	144330	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	85	301201	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	277123	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	94	182400	54.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	120304	56.0	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	93	732265	51.5	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.782	-0.001	96	243546	51.0	
10 Dichlorodifluoromethane	85		2.110				ND	
12 Chloromethane	50		2.311				ND	
13 Vinyl chloride	62		2.408				ND	
14 Bromomethane	94		2.725				ND	
15 Chloroethane	64		2.792				ND	
17 Trichlorofluoromethane	101		2.992				ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394				ND	
22 1,1-Dichloroethene	96		3.418				ND	
23 Acetone	43	3.473	3.449	0.024	99	12891	8.16	
26 Carbon disulfide	76		3.637				ND	
27 Methyl acetate	43		3.680				ND	
30 Methylene Chloride	84	3.814	3.801	0.013	93	11684	2.65	
32 Methyl tert-butyl ether	73		3.966				ND	
34 trans-1,2-Dichloroethene	96		4.002				ND	
39 1,1-Dichloroethane	63		4.337				ND	
43 2-Butanone (MEK)	43		4.775				ND	
45 cis-1,2-Dichloroethene	96		4.799				ND	
50 Chloroform	83		5.036				ND	
51 1,1,1-Trichloroethane	97		5.207				ND	
52 Cyclohexane	56		5.243				ND	
55 Carbon tetrachloride	117		5.341				ND	
57 Benzene	78		5.511				ND	
58 1,2-Dichloroethane	62		5.535				ND	
62 Trichloroethene	95	6.046	6.040	0.006	96	10868	2.64	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/kg	Flags
64 Methylcyclohexane	83		6.198				ND	
65 1,2-Dichloropropane	63		6.253				ND	
68 Dichlorobromomethane	83		6.490				ND	
72 cis-1,3-Dichloropropene	75		6.880				ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977				ND	
74 Toluene	92		7.190				ND	
77 trans-1,3-Dichloropropene	75		7.391				ND	
79 1,1,2-Trichloroethane	83		7.592				ND	
81 Tetrachloroethene	166	7.725	7.731	0.000	83	1312	0.2710	
80 2-Hexanone	43		7.768				ND	
83 Chlorodibromomethane	129		8.005				ND	
84 Ethylene Dibromide	107		8.139				ND	
87 Chlorobenzene	112		8.607				ND	
88 Ethylbenzene	91		8.674				ND	
90 m-Xylene & p-Xylene	106		8.790				ND	
91 o-Xylene	106		9.222				ND	
92 Styrene	104		9.240				ND	
95 Bromoform	173		9.496				ND	
94 Isopropylbenzene	105		9.581				ND	
97 1,1,2,2-Tetrachloroethane	83		9.909				ND	
111 1,3-Dichlorobenzene	146		10.810				ND	
113 1,4-Dichlorobenzene	146		10.889				ND	
116 1,2-Dichlorobenzene	146		11.229				ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893				ND	
119 1,2,4-Trichlorobenzene	180		12.568				ND	
S 124 Xylenes, Total	1		30.000				ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

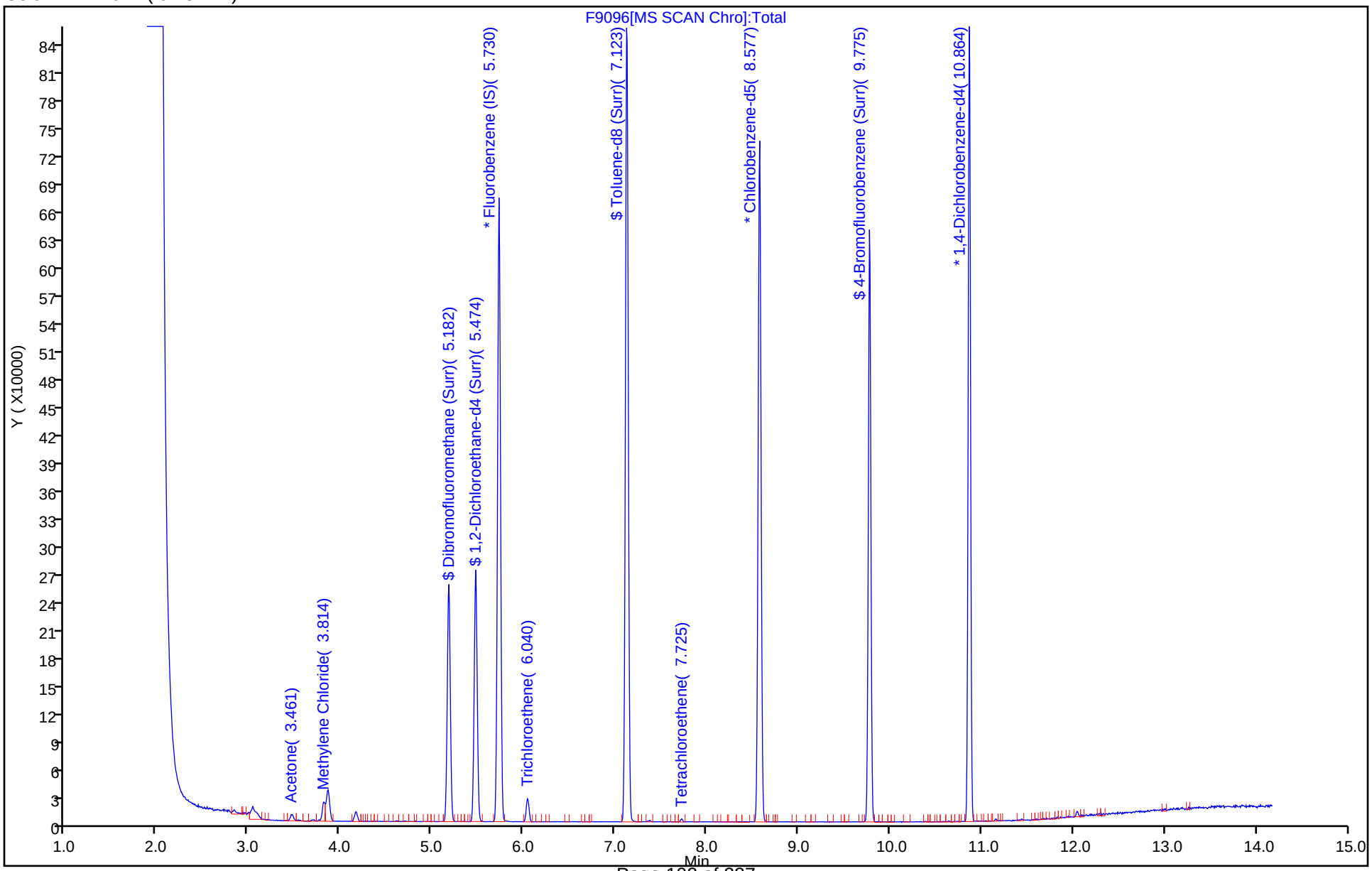
Report Date: 18-Mar-2019 08:35:52 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9096.D

Injection Date:	15-Mar-2019 20:06:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	480-150235-C-7-A	Lab Sample ID:	480-150235-7	Worklist Smp#:	28
Client ID:	PDI-28-50-16-031219				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



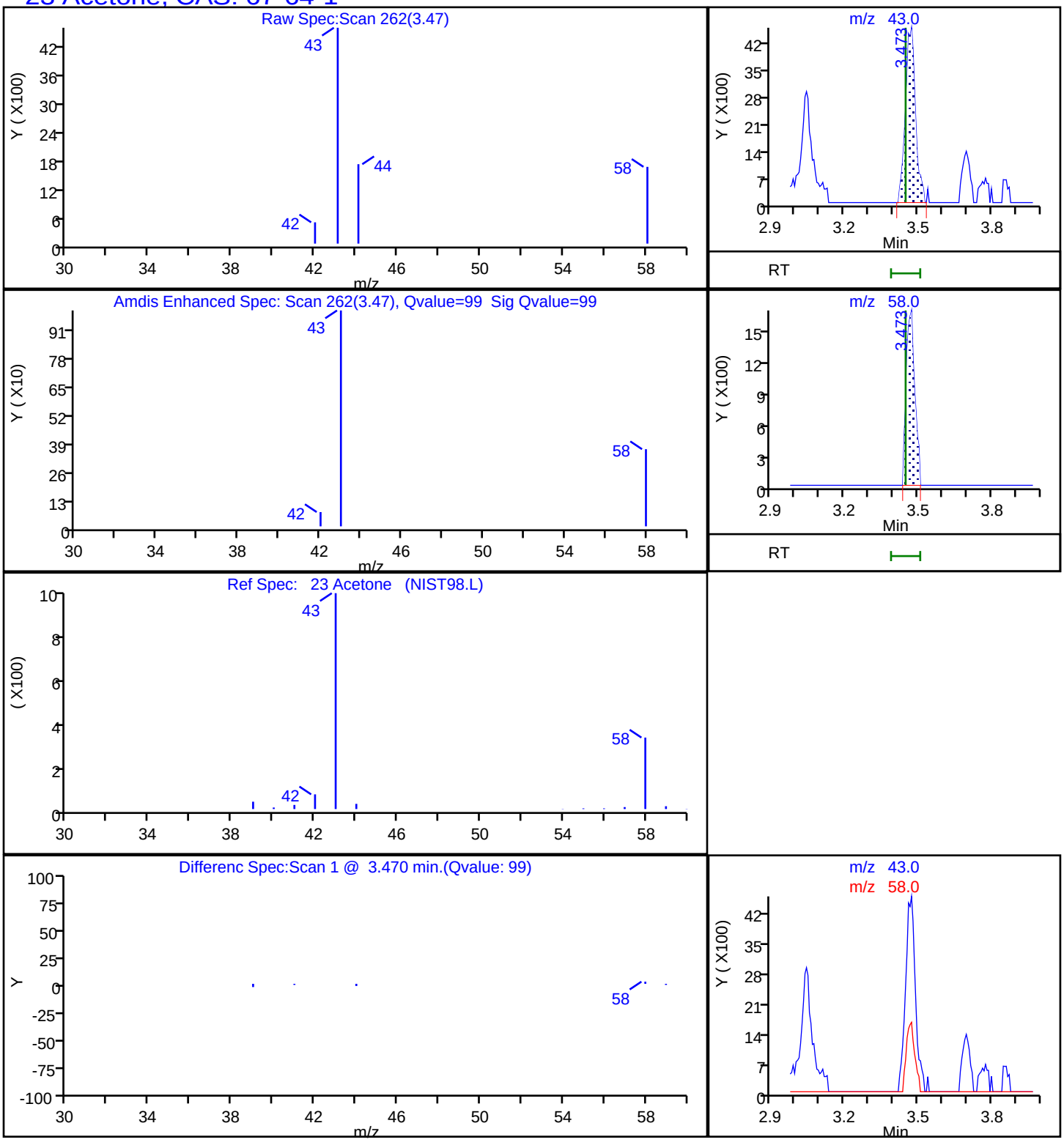
Report Date: 18-Mar-2019 08:35:52 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9096.D

Injection Date:	15-Mar-2019 20:06:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-7-A	Lab Sample ID:	480-150235-7
Client ID:	PDI-28-50-16-031219		
Operator ID:	CDC	ALS Bottle#:	21 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

23 Acetone, CAS: 67-64-1



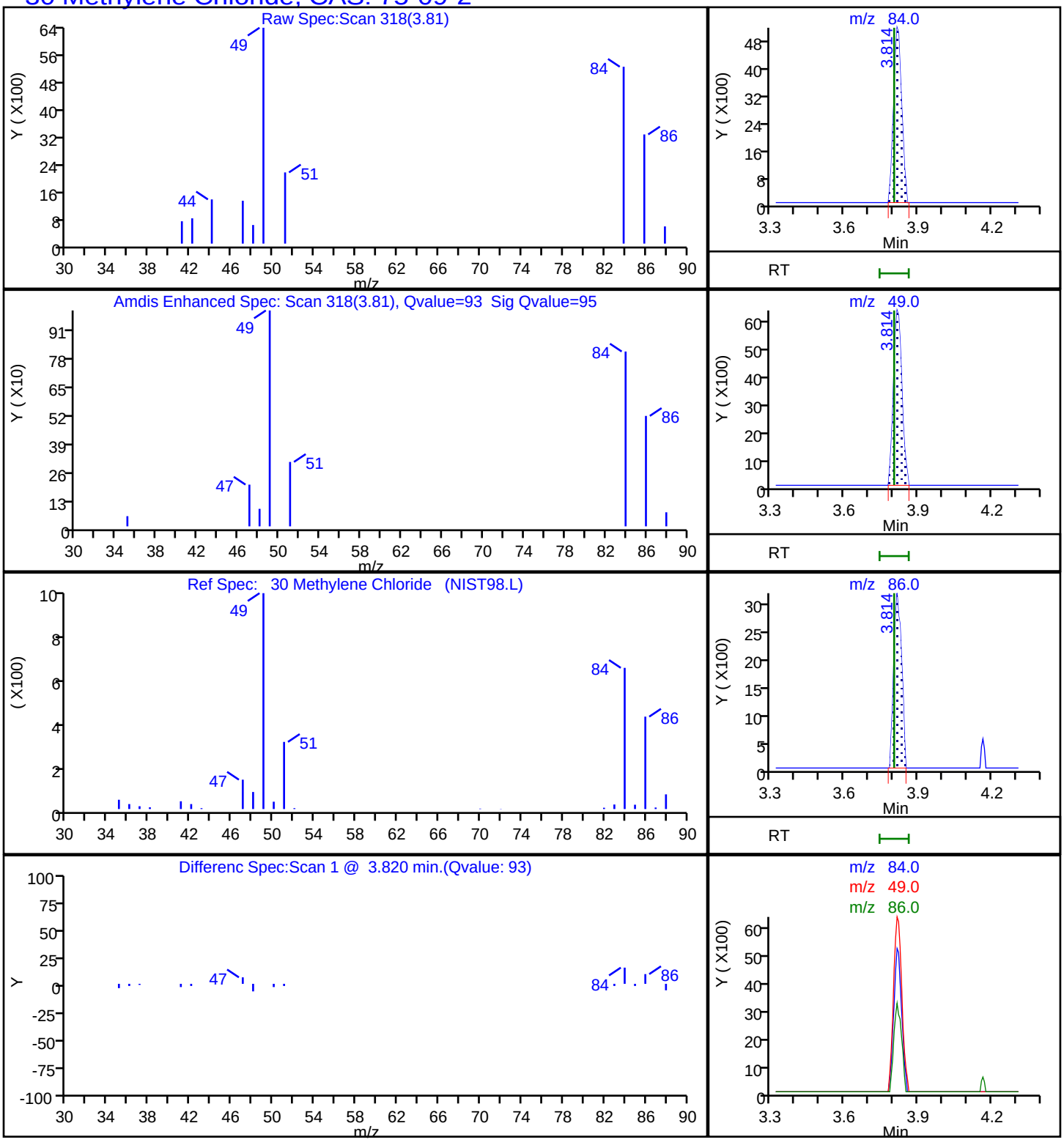
Report Date: 18-Mar-2019 08:35:52 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9096.D

Injection Date:	15-Mar-2019 20:06:30	Instrument ID:	HP5973F		
Lims ID:	480-150235-C-7-A	Lab Sample ID:	480-150235-7		
Client ID:	PDI-28-50-16-031219				
Operator ID:	CDC	ALS Bottle#:	21	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN		

30 Methylene Chloride, CAS: 75-09-2



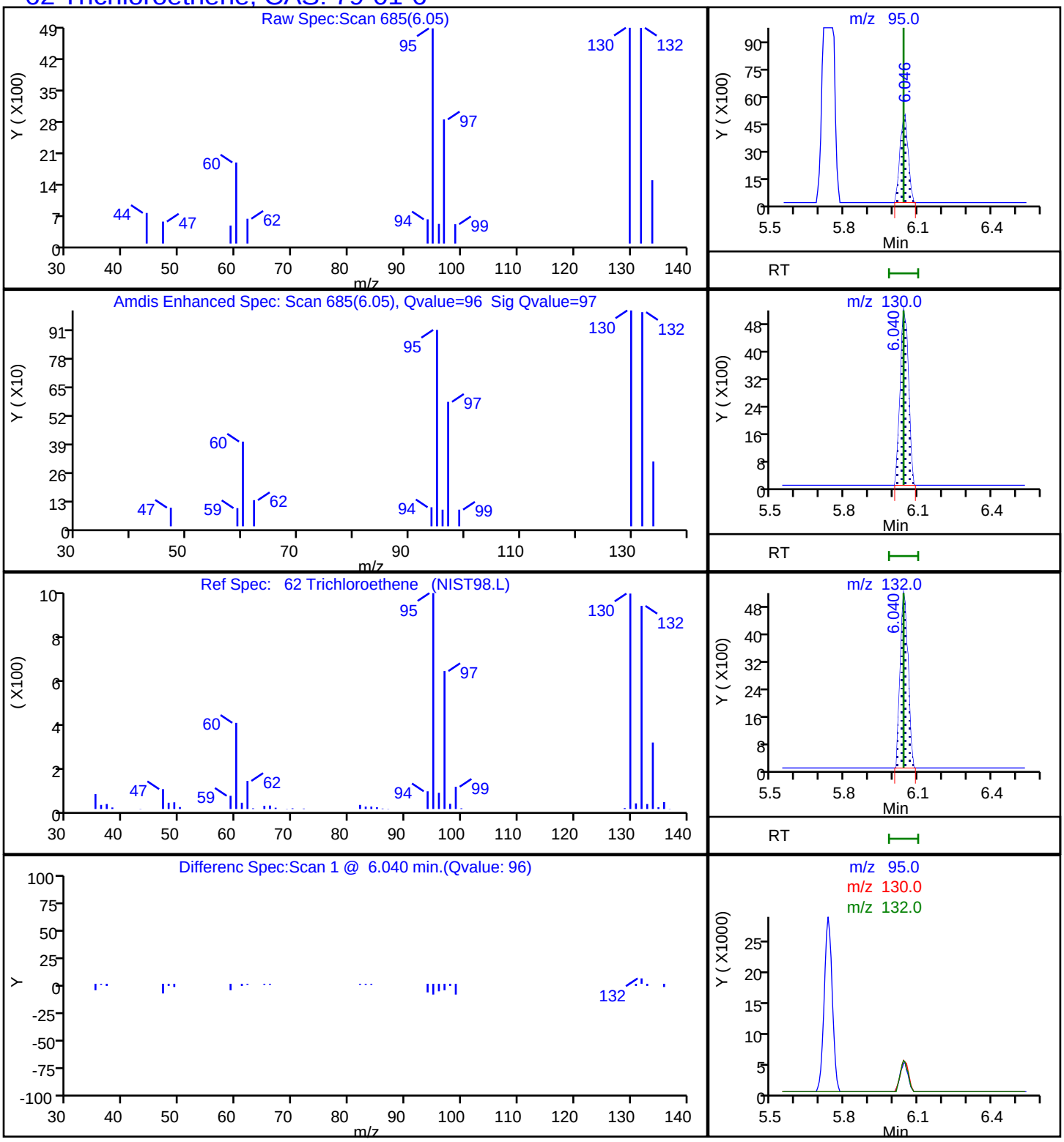
Report Date: 18-Mar-2019 08:35:52 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9096.D

Injection Date:	15-Mar-2019 20:06:30	Instrument ID:	HP5973F
Lims ID:	480-150235-C-7-A	Lab Sample ID:	480-150235-7
Client ID:	PDI-28-50-16-031219		
Operator ID:	CDC	ALS Bottle#:	21 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL
Column:	ZB-624 (0.25 mm)	Detector	MS SCAN

62 Trichloroethene, CAS: 79-01-6



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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454682/6	F7813.D
Level 2	IC 480-454682/7	F7814.D
Level 3	IC 480-454682/8	F7815.D
Level 4	IC 480-454682/9	F7816.D
Level 5	ICIS 480-454682/10	F7817.D
Level 6	IC 480-454682/11	F7818.D
Level 7	IC 480-454682/12	F7819.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.2372 1.1584	1.2669 1.1092	1.1818	1.1848	1.1755	Ave		1.1877			0.1000	4.3		20.0			
Chloromethane	+++++ 1.2532	1.5006 1.1901	1.4197	1.3008	1.2857	Ave		1.3250			0.1000	8.6		20.0			
Vinyl chloride	1.3582 1.1416	1.2566 1.0880	1.2325	1.1755	1.1703	Ave		1.2033			0.1000	7.3		20.0			
Butadiene	1.3287 1.1136	1.2646 1.0459	1.2503	1.1756	1.1876	Ave		1.1952				8.0		20.0			
Bromomethane	0.7420 0.7041	0.6924 0.6686	0.7042	0.6919	0.7001	Ave		0.7005			0.1000	3.1		20.0			
Chloroethane	0.7717 0.6311	0.7266 0.6011	0.6777	0.6408	0.6368	Ave		0.6694			0.1000	9.0		20.0			
Dichlorofluoromethane	1.6164 1.4723	1.6783 1.4236	1.5792	1.4927	1.4834	Ave		1.5351				5.9		20.0			
Trichlorofluoromethane	1.8104 1.5612	1.7006 1.4742	1.6308	1.5959	1.5888	Ave		1.6231			0.1000	6.6		20.0			
Ethyl ether	1.5051 1.3350	1.3182 1.2578	1.3276	1.3276	1.3440	Ave		1.3450				5.7		20.0			
Acrolein	0.2718 0.2600	0.2489 0.2408	0.2450	0.2502	0.2492	Ave		0.2523				4.1		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	1.1272 1.0723	1.0739 1.0164	1.0911	1.0897	1.0765	Ave		1.0782			0.1000	3.1		20.0			
1,1-Dichloroethene	1.2890 1.1094	1.1607 1.0639	1.1597	1.1334	1.1181	Ave		1.1478			0.1000	6.1		20.0			
Acetone	0.6167 0.5530	0.5427 0.5175	0.5242	0.5422	0.5357	Ave		0.5474			0.1000	6.0		20.0			
Iodomethane	2.0500 1.9423	1.9064 1.8543	1.9844	1.9357	1.9538	Ave		1.9467				3.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	4.1849 3.8012	3.9426 3.5723	3.9792	3.8693	3.7608	Ave		3.8729			0.1000	5.0		20.0			
Methyl acetate	1.7217 1.5055	1.5232 1.3967	1.4600	1.4583	1.4953	Ave		1.5087			0.1000	6.8		20.0			
Allyl chloride	2.6490 2.3659	2.4640 2.2077	2.4794	2.4610	2.4441	Ave		2.4387				5.4		20.0			
Methylene Chloride	+++++ 1.3747	1.9518 1.2987	1.6382	1.4921	1.4010	Ave		1.5261			0.1000	15.7		20.0			
2-Methyl-2-propanol	0.2123 0.2061	0.1947 0.1992	0.1838	0.1979	0.1925	Ave		0.1981				4.7		20.0			
Methyl tert-butyl ether	4.4419 4.2840	4.1937 3.9888	4.2105	4.2527	4.2859	Ave		4.2368			0.1000	3.2		20.0			
Acrylonitrile	0.6835 0.6288	0.6315 0.5594	0.6201	0.6248	0.6217	Ave		0.6243				5.8		20.0			
trans-1,2-Dichloroethene	1.4586 1.3385	1.3559 1.2867	1.3250	1.3202	1.3628	Ave		1.3497			0.1000	4.0		20.0			
Hexane	+++++ 2.4374	3.3089 2.3063	2.8172	2.6401	2.5544	Ave		2.6774				13.3		20.0			
Vinyl acetate	3.2933 3.0232	3.0120 2.6738	3.0372	3.0595	3.0675	Ave		3.0238				6.0		20.0			
1,1-Dichloroethane	2.6474 2.4463	2.5052 2.3071	2.5041	2.4641	2.5139	Ave		2.4840			0.2000	4.1		20.0			
2-Butanone (MEK)	0.9779 0.9233	0.9039 0.8265	0.8815	0.8961	0.9077	Ave		0.9024			0.1000	5.0		20.0			
2,2-Dichloropropane	2.1501 1.8323	1.8982 1.7314	1.9219	1.8913	1.8747	Ave		1.9000				6.7		20.0			
cis-1,2-Dichloroethene	1.6961 1.5298	1.5299 1.4583	1.5381	1.5259	1.5564	Ave		1.5478			0.1000	4.7		20.0			
Chlorobromomethane	0.7867 0.7496	0.7133 0.7213	0.7204	0.7301	0.7461	Ave		0.7382				3.4		20.0			
Tetrahydrofuran	0.6886 0.6059	0.6328 0.5648	0.5910	0.5943	0.5933	Ave		0.6101				6.6		20.0			
Chloroform	2.4372 2.2671	2.2842 2.1478	2.3197	2.2659	2.3119	Ave		2.2906			0.2000	3.8		20.0			
1,1,1-Trichloroethane	2.0064 1.8184	1.8501 1.7401	1.8262	1.8227	1.8543	Ave		1.8455			0.1000	4.4		20.0			
Cyclohexane	2.8193 2.4286	2.5433 2.2803	2.4969	2.4664	2.4799	Ave		2.5021			0.1000	6.5		20.0			
1,1-Dichloropropene	2.1034 1.9327	1.9301 1.8380	1.9753	1.9508	1.9908	Ave		1.9602				4.1		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Carbon tetrachloride	1.6927 1.6721	1.6370 1.6159	1.6588	1.6515	1.6624	Ave		1.6558			0.1000	1.5		20.0			
Isobutyl alcohol	0.0914 0.1041	0.0876 0.0906	0.0927	0.0976	0.0988	Ave		0.0947				6.0		20.0			
Benzene	6.2757 5.5874	5.8002 5.1034	5.7697	5.7104	5.8010	Ave		5.7211			0.5000	6.1		20.0			
1,2-Dichloroethane	2.0337 1.8369	1.9027 1.7471	1.8807	1.8618	1.8880	Ave		1.8787			0.1000	4.6		20.0			
n-Heptane	2.9163 2.5997	2.6632 2.4341	2.7339	2.6872	2.6716	Ave		2.6723				5.4		20.0			
Trichloroethene	1.5100 1.4009	1.4499 1.3388	1.4181	1.4018	1.4461	Ave		1.4236			0.2000	3.7		20.0			
Methylcyclohexane	2.7612 2.5340	2.5640 2.4009	2.5841	2.5777	2.5939	Ave		2.5737			0.1000	4.1		20.0			
1,2-Dichloropropane	1.5615 1.5134	1.4741 1.4428	1.5122	1.4873	1.5490	Ave		1.5058			0.1000	2.8		20.0			
1,4-Dioxane	+++++ 0.0086	0.0059 0.0084	0.0083	0.0083	0.0083	Ave		0.0080				12.7		20.0			
Dibromomethane	0.9044 0.8719	0.8401 0.8428	0.8473	0.8559	0.8745	Ave		0.8624			0.1000	2.7		20.0			
Bromodichloromethane	1.8263 1.8147	1.7089 1.7398	1.7390	1.7565	1.8393	Ave		1.7749			0.2000	2.9		20.0			
2-Chloroethyl vinyl ether	1.0487 1.1171	1.0331 1.0643	1.0405	1.0652	1.1264	Ave		1.0708				3.4		20.0			
cis-1,3-Dichloropropene	2.5051 2.4197	2.3546 2.3022	2.3566	2.3979	2.4821	Ave		2.4026			0.2000	3.0		20.0			
4-Methyl-2-pentanone (MIBK)	0.9011 0.8317	0.8403 0.7158	0.8440	0.8438	0.8302	Ave		0.8296			0.1000	6.7		20.0			
Toluene	2.0024 1.7699	1.8488 1.6893	1.8264	1.8091	1.8251	Ave		1.8244			0.4000	5.2		20.0			
trans-1,3-Dichloropropene	1.1688 1.1460	1.0765 1.1005	1.1092	1.1221	1.1575	Ave		1.1258			0.1000	3.0		20.0			
Ethyl methacrylate	1.0909 1.0635	0.9963 1.0261	1.0181	1.0173	1.0549	Ave		1.0381				3.2		20.0			
1,1,2-Trichloroethane	0.5785 0.5481	0.5322 0.5319	0.5364	0.5352	0.5497	Ave		0.5446			0.1000	3.1		20.0			
Tetrachloroethene	0.8609 0.7890	0.7915 0.7646	0.8121	0.7950	0.8120	Ave		0.8036			0.2000	3.7		20.0			
1,3-Dichloropropane	1.2206 1.1845	1.1625 1.1355	1.1937	1.1749	1.1985	Ave		1.1814				2.3		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.7017 0.6736	0.6687 0.5868	0.6525	0.6666	0.6677	Ave		0.6596			0.1000	5.4		20.0			
Dibromochloromethane	0.6591 0.7378	0.6366 0.7336	0.6616	0.6743	0.7284	Ave		0.6902			0.1000	6.1		20.0			
1,2-Dibromoethane	0.6782 0.6962	0.6531 0.6768	0.6619	0.6719	0.6946	Ave		0.6761				2.3		20.0			
Chlorobenzene	2.1975 2.0126	2.0507 1.9097	2.0451	2.0394	2.0761	Ave		2.0473			0.5000	4.2		20.0			
Ethylbenzene	3.5562 3.1827	3.3868 2.9291	3.3707	3.2987	3.3541	Ave		3.2969			0.1000	6.0		20.0			
1,1,1,2-Tetrachloroethane	0.6726 0.6854	0.6345 0.6719	0.6484	0.6520	0.6778	Ave		0.6632				2.8		20.0			
m,p-Xylene	1.4339 1.3359	1.3316 1.2927	1.3624	1.3430	1.3694	Ave		1.3527			0.1000	3.2		20.0			
o-Xylene	1.3563 1.2532	1.2593 1.2119	1.2813	1.2574	1.2775	Ave		1.2710			0.3000	3.5		20.0			
Styrene	2.4020 2.2648	2.2742 2.1477	2.2884	2.2659	2.3408	Ave		2.2834			0.3000	3.4		20.0			
Bromoform	0.4326 0.5377	0.4129 0.5403	0.4477	0.4651	0.5138	Ave		0.4786			0.1000	10.8		20.0			
Isopropylbenzene	3.6892 3.1129	3.4575 2.7887	3.4176	3.2793	3.2165	Ave		3.2802			0.1000	8.7		20.0			
1,1,2,2-Tetrachloroethane	0.9282 0.8884	0.8773 0.8379	0.8787	0.8711	0.8730	Ave		0.8792			0.3000	3.0		20.0			
Bromobenzene	1.0131 0.9243	0.9322 0.8717	0.9480	0.9331	0.9307	Ave		0.9362				4.4		20.0			
trans-1,4-Dichloro-2-butene	0.3348 0.3250	0.2986 0.3066	0.3001	0.3113	0.3157	Ave		0.3132				4.2		20.0			
1,2,3-Trichloropropane	0.3068 0.2883	0.2792 0.2751	0.2744	0.2769	0.2798	Ave		0.2829				4.1		20.0			
N-Propylbenzene	4.3809 3.7289	4.1120 3.2447	4.0820	3.9609	3.9380	Ave		3.9210				9.1		20.0			
2-Chlorotoluene	0.8771 0.8180	0.8357 0.7834	0.8430	0.8304	0.8263	Ave		0.8306				3.4		20.0			
1,3,5-Trimethylbenzene	3.0341 2.6652	2.8763 2.4022	2.8299	2.7816	2.7431	Ave		2.7618				7.1		20.0			
4-Chlorotoluene	0.9493 0.8882	0.9105 0.8459	0.8986	0.8850	0.9059	Ave		0.8976				3.5		20.0			
tert-Butylbenzene	0.7407 0.6419	0.6784 0.6064	0.6696	0.6616	0.6502	Ave		0.6641				6.2		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	3.0836 2.7511	2.9294 2.4717	2.9039	2.8286	2.8264	Ave		2.8278				6.7		20.0			
sec-Butylbenzene	4.0513 3.3554	3.7275 2.9215	3.6880	3.5840	3.4882	Ave		3.5451				9.9		20.0			
4-Isopropyltoluene	3.4066 2.9889	3.2082 2.6216	3.2052	3.1248	3.0830	Ave		3.0912				7.9		20.0			
1,3-Dichlorobenzene	1.8322 1.6846	1.7331 1.5692	1.7259	1.7074	1.7135	Ave		1.7094			0.6000	4.5		20.0			
1,4-Dichlorobenzene	1.8913 1.7253	1.7682 1.6049	1.7663	1.7468	1.7565	Ave		1.7513			0.5000	4.8		20.0			
n-Butylbenzene	3.0687 2.6229	2.7973 2.3330	2.7901	2.7201	2.7197	Ave		2.7217				8.1		20.0			
1,2-Dichlorobenzene	1.6980 1.5714	1.5900 1.4717	1.5845	1.5816	1.5828	Ave		1.5828			0.4000	4.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1802	0.1895 0.1707	0.1693	0.1705	0.1671	Ave		0.1745			0.0500	4.9		20.0			
1,2,4-Trichlorobenzene	1.1549 1.0647	1.0828 1.0093	1.0821	1.0653	1.0442	Ave		1.0719			0.2000	4.2		20.0			
Hexachlorobutadiene	0.6281 0.5774	0.6088 0.5434	0.6277	0.5944	0.5841	Ave		0.5949				5.1		20.0			
Naphthalene	2.9313 2.8353	2.7802 2.5609	2.7608	2.7682	2.7300	Ave		2.7667				4.1		20.0			
1,2,3-Trichlorobenzene	1.0612 1.0094	0.9992 0.9474	1.0073	0.9999	0.9709	Ave		0.9993				3.5		20.0			
Dibromofluoromethane (Surr)	1.1653 1.1592	1.1477 1.1590	1.1475	1.1573	1.1630	Ave		1.1570				0.6		20.0			
1,2-Dichloroethane-d4 (Surr)	0.7495 0.7519	0.7404 0.7431	0.7361	0.7445	0.7457	Ave		0.7445				0.7		20.0			
Toluene-d8 (Surr)	2.3591 2.3537	2.3446 2.3656	2.3581	2.3631	2.3646	Ave		2.3584				0.3		20.0			
4-Bromofluorobenzene (Surr)	0.7814 0.7971	0.7799 0.8092	0.7891	0.7927	0.8037	Ave		0.7933				1.4		20.0			

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

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-454682/6	F7813.D
Level 2	IC 480-454682/7	F7814.D
Level 3	IC 480-454682/8	F7815.D
Level 4	IC 480-454682/9	F7816.D
Level 5	ICIS 480-454682/10	F7817.D
Level 6	IC 480-454682/11	F7818.D
Level 7	IC 480-454682/12	F7819.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	13318 506752	27648 1005047	51394	102968	261704	2.50 100	5.00 200	10.0	20.0	50.0
Chloromethane	FB	Ave	+++++ 548209	32749 1078360	61741	113047	286233	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl chloride	FB	Ave	14621 499413	27425 985870	53600	102153	260555	2.50 100	5.00 200	10.0	20.0	50.0
Butadiene	FB	Ave	14303 487158	27599 947739	54375	102164	264396	2.50 100	5.00 200	10.0	20.0	50.0
Bromomethane	FB	Ave	7988 308009	15111 605860	30626	60127	155859	2.50 100	5.00 200	10.0	20.0	50.0
Chloroethane	FB	Ave	8307 276074	15857 544627	29472	55685	141782	2.50 100	5.00 200	10.0	20.0	50.0
Dichlorofluoromethane	FB	Ave	17400 644068	36627 1289917	68676	129722	330266	2.50 100	5.00 200	10.0	20.0	50.0
Trichlorofluoromethane	FB	Ave	19489 682933	37113 1335814	70923	138688	353717	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl ether	FB	Ave	16202 583977	28769 1139686	57736	115375	299212	2.50 100	5.00 200	10.0	20.0	50.0
Acrolein	FB	Ave	14631 568654	27158 1091077	53280	108739	277420	12.5 500	25.0 1000	50.0	100	250
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	12134 469094	23437 920954	47451	94703	239663	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloroethene	FB	Ave	13876 485306	25332 963990	50435	98498	248935	2.50 100	5.00 200	10.0	20.0	50.0
Acetone	FB	Ave	33196 1209647	59216 2344436	113985	235584	596308	12.5 500	25.0 1000	50.0	100	250
Iodomethane	FB	Ave	22068 849657	41605 1680217	86298	168217	434988	2.50 100	5.00 200	10.0	20.0	50.0
Carbon disulfide	FB	Ave	45050 1662855	86043 3236892	173051	336257	837284	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methyl acetate	FB	Ave	37068 1317143	66483 2531214	126992	253458	665832	5.00 200	10.0 400	20.0	40.0	100
Allyl chloride	FB	Ave	28516 1034948	53775 2000403	107826	213871	544152	2.50 100	5.00 200	10.0	20.0	50.0
Methylene Chloride	FB	Ave	+++++ 601375	42596 1176733	71245	129667	311909	+++++ 100	5.00 200	10.0	20.0	50.0
2-Methyl-2-propanol	FB	Ave	22857 901411	42498 1804929	79912	171991	428503	25.0 1000	50.0 2000	100	200	500
Methyl tert-butyl ether	FB	Ave	47816 1874061	91522 3614315	183110	369580	954192	2.50 100	5.00 200	10.0	20.0	50.0
Acrylonitrile	FB	Ave	73575 2750873	137812 5069207	269684	542960	1384207	25.0 1000	50.0 2000	100	200	500
trans-1,2-Dichloroethene	FB	Ave	15702 585542	29591 1165912	57622	114732	303407	2.50 100	5.00 200	10.0	20.0	50.0
Hexane	FB	Ave	+++++ 1066250	72213 2089740	122516	229440	568694	+++++ 100	5.00 200	10.0	20.0	50.0
Vinyl acetate	FB	Ave	70904 2645052	131468 4845563	264175	531768	1365894	5.00 200	10.0 400	20.0	40.0	100
1,1-Dichloroethane	FB	Ave	28499 1070121	54674 2090476	108900	214139	559681	2.50 100	5.00 200	10.0	20.0	50.0
2-Butanone (MEK)	FB	Ave	52634 2019424	98628 3744517	191684	389355	1010438	12.5 500	25.0 1000	50.0	100	250
2,2-Dichloropropane	FB	Ave	23145 801562	41426 1568850	83583	164364	417371	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	18258 669229	33388 1321377	66892	132607	346501	2.50 100	5.00 200	10.0	20.0	50.0
Chlorobromomethane	FB	Ave	8469 327928	15566 653541	31329	63452	166102	2.50 100	5.00 200	10.0	20.0	50.0
Tetrahydrofuran	FB	Ave	14826 530080	27619 1023531	51400	103288	264188	5.00 200	10.0 400	20.0	40.0	100
Chloroform	FB	Ave	26236 991751	49850 1946157	100884	196921	514718	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	21599 795445	40376 1576736	79422	158400	412830	2.50 100	5.00 200	10.0	20.0	50.0
Cyclohexane	FB	Ave	30349 1062399	55505 2066261	108589	214342	552117	2.50 100	5.00 200	10.0	20.0	50.0
1,1-Dichloropropene	FB	Ave	22643 845465	42123 1665396	85903	169533	443231	2.50 100	5.00 200	10.0	20.0	50.0
Carbon tetrachloride	FB	Ave	18222 731452	35726 1464159	72138	143523	370099	2.50 100	5.00 200	10.0	20.0	50.0
Isobutyl alcohol	FB	Ave	24610 1138742	47775 2052188	100797	212087	549788	62.5 2500	125 5000	250	500	1250

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Benzene	FB	Ave	67557 2444218	126582 4624286	250920	496262	1291501	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloroethane	FB	Ave	21893 803541	41524 1583056	81792	161795	420343	2.50 100	5.00 200	10.0	20.0	50.0
n-Heptane	FB	Ave	31393 1137249	58121 2205578	118894	233529	594798	2.50 100	5.00 200	10.0	20.0	50.0
Trichloroethene	FB	Ave	16255 612811	31643 1213098	61670	121820	321945	2.50 100	5.00 200	10.0	20.0	50.0
Methylcyclohexane	FB	Ave	29724 1108516	55957 2175471	112380	224012	577488	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichloropropane	FB	Ave	16809 662052	32171 1307363	65766	129249	344858	2.50 100	5.00 200	10.0	20.0	50.0
1,4-Dioxane	CBNZ d5	Ave	+++++ 150244	5157 300176	14336	28990	74979	+++++ 2000	100 4000	200	400	1000
Dibromomethane	FB	Ave	9736 381419	18335 763630	36847	74378	194688	2.50 100	5.00 200	10.0	20.0	50.0
Bromodichloromethane	FB	Ave	19660 793847	37295 1576440	75626	152646	409488	2.50 100	5.00 200	10.0	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	11289 488664	22547 964347	45250	92574	250777	2.50 100	5.00 200	10.0	20.0	50.0
cis-1,3-Dichloropropene	FB	Ave	26967 1058495	51387 2086101	102485	208385	552594	2.50 100	5.00 200	10.0	20.0	50.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	97181 3628242	182603 6369756	364109	735582	1872880	12.5 500	25.0 1000	50.0	100	250
Toluene	CBNZ d5	Ave	43188 1544218	80353 3006350	157587	315409	823455	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	25210 999859	46788 1958418	95702	195637	522232	2.50 100	5.00 200	10.0	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	23528 927874	43304 1826053	87843	177359	475944	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	12477 478262	23132 946636	46279	93313	248031	2.50 100	5.00 200	10.0	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	18569 688441	34401 1360757	70070	138599	366384	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	26326 1033474	50527 2020751	102994	204840	540740	2.50 100	5.00 200	10.0	20.0	50.0
2-Hexanone	CBNZ d5	Ave	75670 2938438	145316 5221587	281507	581117	1506182	12.5 500	25.0 1000	50.0	100	250
Dibromochloromethane	CBNZ d5	Ave	14215 643734	27669 1305566	57087	117567	328641	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	14627 607455	28384 1204383	57106	117149	313415	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	47396 1756025	89131 3398623	176456	355559	936705	2.50 100	5.00 200	10.0	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	76701 2776980	147204 5212700	290831	575117	1513322	2.50 100	5.00 200	10.0	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	14506 598015	27577 1195702	55945	113673	305822	2.50 100	5.00 200	10.0	20.0	50.0
m,p-Xylene	CBNZ d5	Ave	30926 1165600	57876 2300620	117549	234147	617840	2.50 100	5.00 200	10.0	20.0	50.0
o-Xylene	CBNZ d5	Ave	29254 1093442	54733 2156835	110554	219225	576413	2.50 100	5.00 200	10.0	20.0	50.0
Styrene	CBNZ d5	Ave	51808 1976086	98843 3822115	197450	395064	1056122	2.50 100	5.00 200	10.0	20.0	50.0
Bromoform	CBNZ d5	Ave	9331 469160	17944 961529	38626	81082	231828	2.50 100	5.00 200	10.0	20.0	50.0
Isopropylbenzene	DCBd 4	Ave	74710 2666193	141480 5002221	281165	551445	1428678	2.50 100	5.00 200	10.0	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	18796 760916	35901 1502928	72293	146480	387774	2.50 100	5.00 200	10.0	20.0	50.0
Bromobenzene	DCBd 4	Ave	20516 791690	38146 1563567	77989	156906	413403	2.50 100	5.00 200	10.0	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	6780 278384	12220 550049	24689	52348	140236	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	6212 246945	11426 493421	22572	46571	124259	2.50 100	5.00 200	10.0	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	88717 3193840	168264 5820069	335825	666044	1749157	2.50 100	5.00 200	10.0	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	17762 700639	34197 1405132	69356	139633	367013	2.50 100	5.00 200	10.0	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	61444 2282732	117698 4308927	232820	467744	1218417	2.50 100	5.00 200	10.0	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	19224 760717	37259 1517258	73927	148820	402384	2.50 100	5.00 200	10.0	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	14999 549819	27761 1087670	55085	111258	288805	2.50 100	5.00 200	10.0	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	62446 2356324	119871 4433589	238901	475645	1255418	2.50 100	5.00 200	10.0	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	82042 2873863	152530 5240484	303412	602670	1549374	2.50 100	5.00 200	10.0	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	68986 2559976	131282 4702402	263690	525455	1369409	2.50 100	5.00 200	10.0	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	37104 1442892	70920 2814763	141992	287106	761102	2.50 100	5.00 200	10.0	20.0	50.0

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

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1 Analy Batch No.: 454682

SDG No.:

Instrument ID: HP5973F GC Column: ZB-624 (30) ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 01/11/2019 11:17 Calibration End Date: 01/11/2019 13:52 Calibration ID: 35754

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/KG)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	38300 1477718	72356 2878747	145312	293736	780195	2.50 100	5.00 200	10.0	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	62144 2246517	114467 4184742	229539	457396	1208037	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	34387 1345862	65063 2639790	130361	265950	703020	2.50 100	5.00 200	10.0	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 154342	7753 306137	13926	28675	74229	+++++ 100	5.00 200	10.0	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	23388 911926	44307 1810379	89026	179145	463811	2.50 100	5.00 200	10.0	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	12720 494571	24914 974637	51645	99950	259458	2.50 100	5.00 200	10.0	20.0	50.0
Naphthalene	DCBd 4	Ave	59361 2428416	113765 4593618	227133	465488	1212614	2.50 100	5.00 200	10.0	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	21491 864578	40886 1699405	82875	168137	431254	2.50 100	5.00 200	10.0	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	250882 253552	250470 262551	249518	251435	258922	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	161372 164458	161584 168342	160056	161755	166014	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	1017660 1026794	1019046 1052465	1017277	1030021	1066872	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	337087 347746	338986 360002	340409	345511	362603	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Lims ID: IC
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jan-2019 11:17:30 ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC
Misc. Info.: 480-0077924-006
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:31 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:54:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.730	-0.006	99	215297	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	431369	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.870	0.000	95	405019	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	250882	50.0	50.4	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	161372	50.0	50.3	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1017660	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	337087	50.0	49.3	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	98	13318	2.50	2.60	
12 Chloromethane	50	2.311	2.317	-0.006	99	18653	2.50	3.27	M
13 Vinyl chloride	62	2.414	2.414	0.000	79	14621	2.50	2.82	
151 Butadiene	54	2.420	2.433	-0.013	90	14303	2.50	2.78	M
14 Bromomethane	94	2.737	2.737	0.000	87	7988	2.50	2.65	M
15 Chloroethane	64	2.785	2.798	-0.013	97	8307	2.50	2.88	
16 Dichlorofluoromethane	67	2.950	2.962	-0.012	96	17400	2.50	2.63	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	19489	2.50	2.79	
18 Ethyl ether	59	3.187	3.193	-0.006	91	16202	2.50	2.80	
20 Acrolein	56	3.339	3.339	0.000	99	14631	12.5	13.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	89	12134	2.50	2.61	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	13876	2.50	2.81	
23 Acetone	43	3.455	3.455	-0.001	99	33196	12.5	14.1	
25 Iodomethane	142	3.570	3.582	-0.012	97	22068	2.50	2.63	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	45050	2.50	2.70	
27 Methyl acetate	43	3.686	3.686	0.000	97	37068	5.00	5.71	
28 3-Chloro-1-propene	41	3.692	3.698	-0.006	91	28516	2.50	2.72	
30 Methylene Chloride	84	3.801	3.808	-0.007	97	28630	2.50	4.36	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	99	22857	25.0	26.8	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	47816	2.50	2.62	
33 Acrylonitrile	53	3.996	4.002	-0.006	100	73575	25.0	27.4	
34 trans-1,2-Dichloroethene	96	4.002	4.008	-0.006	95	15702	2.50	2.70	
35 Hexane	57	4.154	4.160	-0.006	94	46550	2.50	4.04	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.324	4.325	-0.001	97	70904	5.00	5.45	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	28499	2.50	2.66	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	99	52634	12.5	13.5	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	18258	2.50	2.74	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	60	23145	2.50	2.83	
48 Chlorobromomethane	128	5.006	5.006	0.000	97	8469	2.50	2.66	
49 Tetrahydrofuran	42	5.030	5.036	-0.006	73	14826	5.00	5.64	
50 Chloroform	83	5.036	5.043	-0.007	95	26236	2.50	2.66	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	21599	2.50	2.72	
52 Cyclohexane	56	5.249	5.243	0.006	90	30349	2.50	2.82	
54 1,1-Dichloropropene	75	5.322	5.328	-0.006	97	22643	2.50	2.68	
55 Carbon tetrachloride	117	5.334	5.341	-0.007	92	18222	2.50	2.56	
53 Isobutyl alcohol	43	5.353	5.347	0.006	93	24610	62.5	60.4	
57 Benzene	78	5.511	5.517	-0.006	94	67557	2.50	2.74	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	21893	2.50	2.71	
59 n-Heptane	43	5.620	5.620	0.000	94	31393	2.50	2.73	
62 Trichloroethene	95	6.040	6.040	0.000	96	16255	2.50	2.65	
64 Methylcyclohexane	83	6.192	6.198	-0.006	89	29724	2.50	2.68	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	95	16809	2.50	2.59	
66 1,4-Dioxane	88	6.356	6.357	-0.001	45	2341	50.0	34.0	
67 Dibromomethane	93	6.387	6.387	0.000	94	9736	2.50	2.62	
68 Dichlorobromomethane	83	6.484	6.490	-0.006	99	19660	2.50	2.57	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	11289	2.50	2.45	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	95	26967	2.50	2.61	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	97181	12.5	13.6	
74 Toluene	92	7.190	7.190	0.000	98	43188	2.50	2.74	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	97	25210	2.50	2.60	
75 Ethyl methacrylate	69	7.403	7.403	0.000	89	23528	2.50	2.63	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	12477	2.50	2.66	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	18569	2.50	2.68	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	94	26326	2.50	2.58	
80 2-Hexanone	43	7.780	7.774	0.006	97	75670	12.5	13.3	
83 Chlorodibromomethane	129	8.005	8.005	0.000	89	14215	2.50	2.39	
84 Ethylene Dibromide	107	8.139	8.145	-0.006	99	14627	2.50	2.51	
87 Chlorobenzene	112	8.607	8.608	-0.001	96	47396	2.50	2.68	
88 Ethylbenzene	91	8.674	8.674	0.000	98	76701	2.50	2.70	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	93	14506	2.50	2.54	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	30926	2.50	2.65	
91 o-Xylene	106	9.222	9.222	0.000	96	29254	2.50	2.67	
92 Styrene	104	9.240	9.240	0.000	95	51808	2.50	2.63	
95 Bromoform	173	9.489	9.496	-0.007	95	9331	2.50	2.26	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	74710	2.50	2.81	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.915	-0.006	95	18796	2.50	2.64	
101 Bromobenzene	156	9.946	9.946	0.000	88	20516	2.50	2.71	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	73	6780	2.50	2.67	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	84	6212	2.50	2.71	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	88717	2.50	2.79	
103 2-Chlorotoluene	126	10.116	10.110	0.006	97	17762	2.50	2.64	
102 1,3,5-Trimethylbenzene	105	10.146	10.147	-0.001	95	61444	2.50	2.75	
105 4-Chlorotoluene	126	10.207	10.214	-0.007	97	19224	2.50	2.64	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	14999	2.50	2.79	
107 1,2,4-Trimethylbenzene	105	10.511	10.512	-0.001	96	62446	2.50	2.73	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	82042	2.50	2.86	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	68986	2.50	2.76	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	96	37104	2.50	2.68	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	94	38300	2.50	2.70	
115 n-Butylbenzene	91	11.150	11.150	0.000	98	62144	2.50	2.82	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	34387	2.50	2.68	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	83	4862	2.50	3.44	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	23388	2.50	2.69	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	12720	2.50	2.64	
121 Naphthalene	128	12.811	12.811	0.000	97	59361	2.50	2.65	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	21491	2.50	2.65	
S 125 1,2-Dichloroethene, Total	1				0			5.44	
S 126 1,3-Dichloropropene, Total	1				0			5.20	
S 123 Total BTEX	1				0			13.5	
S 124 Xylenes, Total	1				0			5.32	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added:	2.50	Units: uL	
GAS CORP mix_00321	Amount Added:	2.50	Units: uL	
F 8260 IS/SS_00078	Amount Added:	1.00	Units: uL	Run Reagent

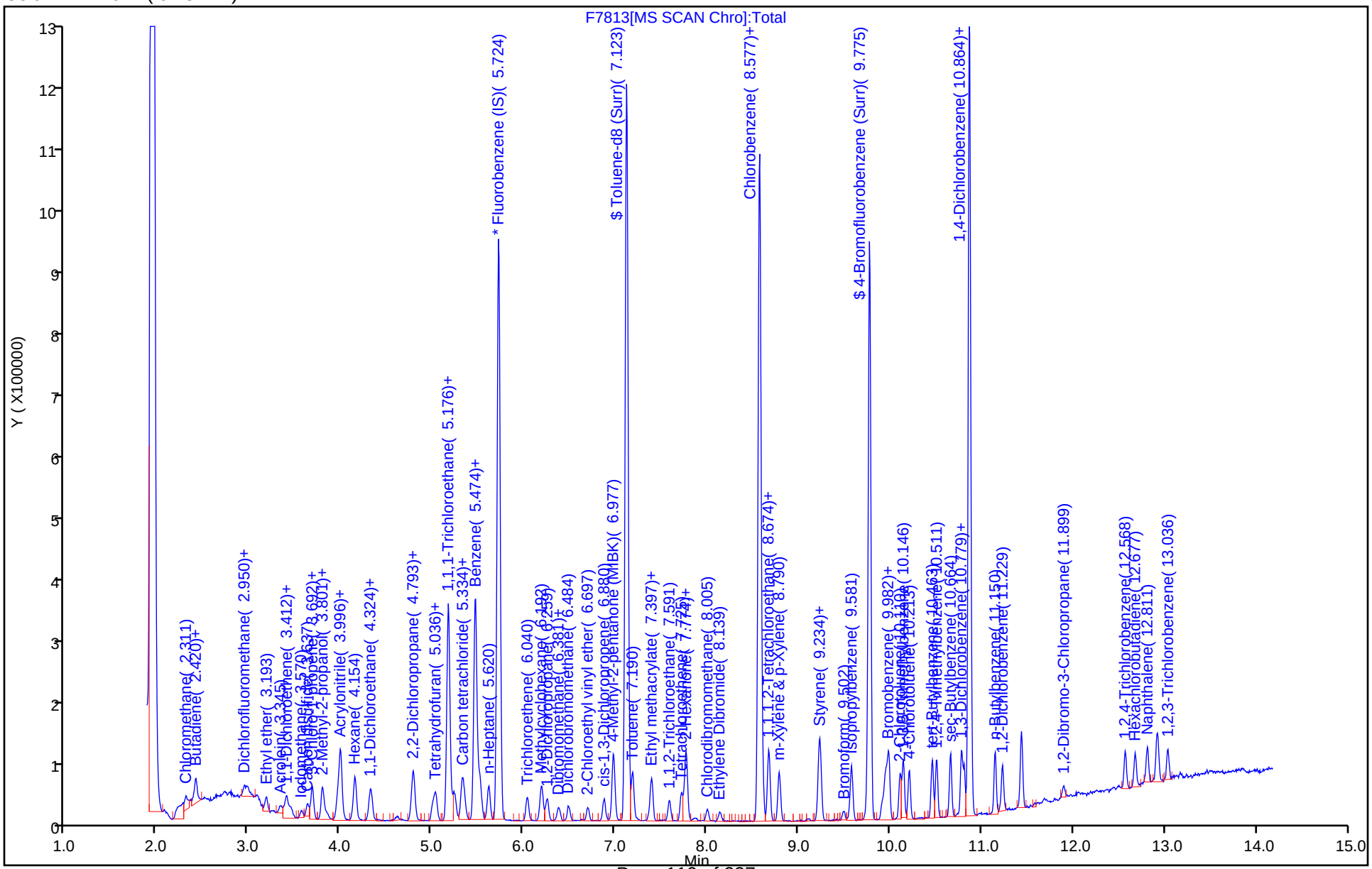
Report Date: 14-Jan-2019 10:30:35 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D

Injection Date:	11-Jan-2019 11:17:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

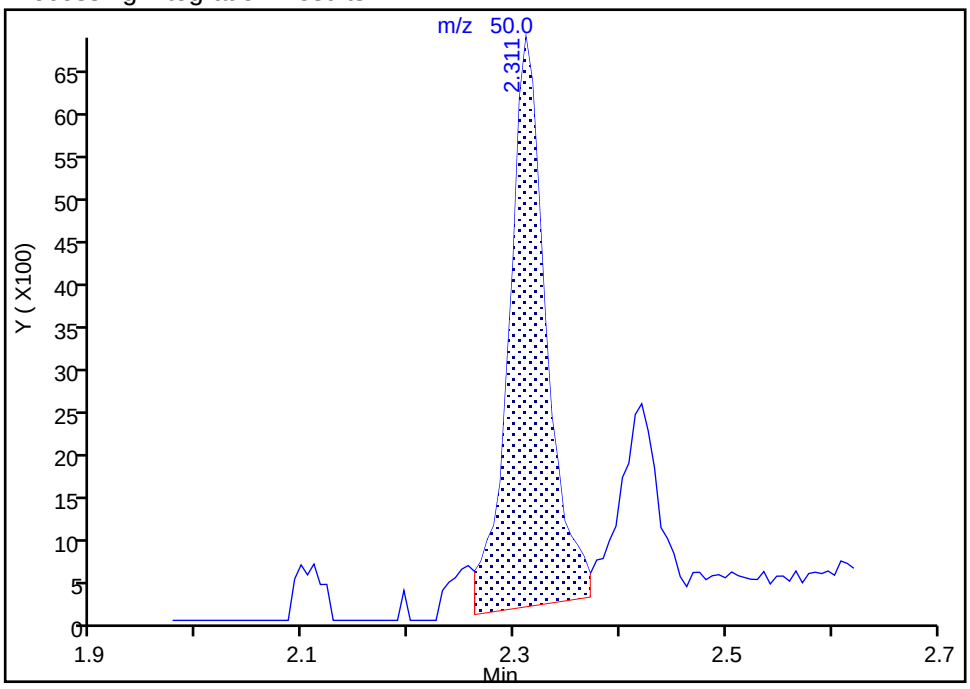
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

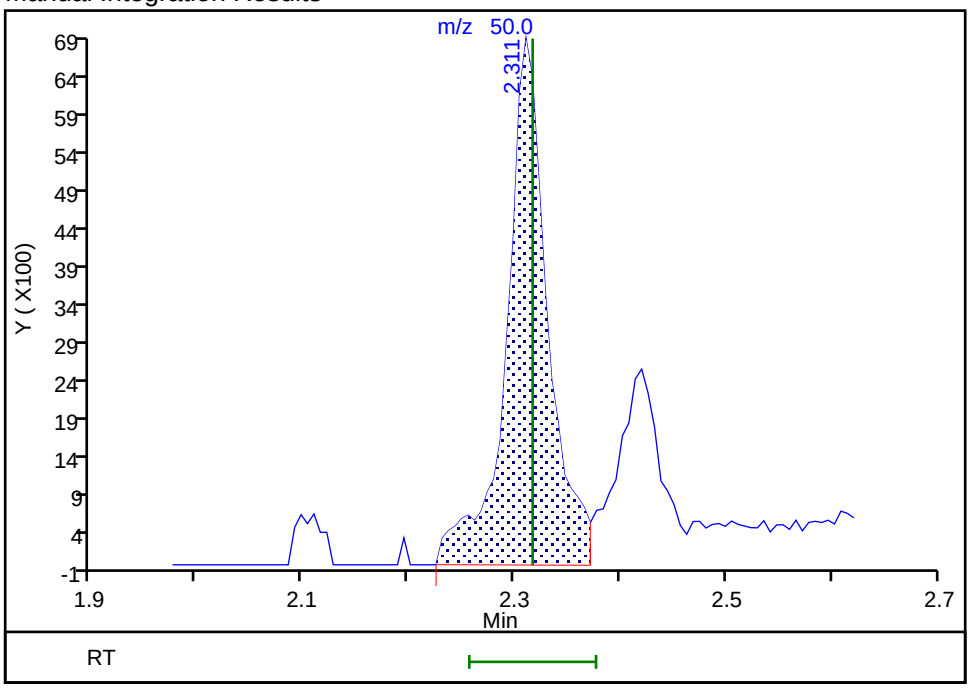
Processing Integration Results

RT: 2.31
Area: 16520
Amount: 2.874025
Amount Units: ug/kg



Manual Integration Results

RT: 2.31
Area: 18653
Amount: 3.269359
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:57:32
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

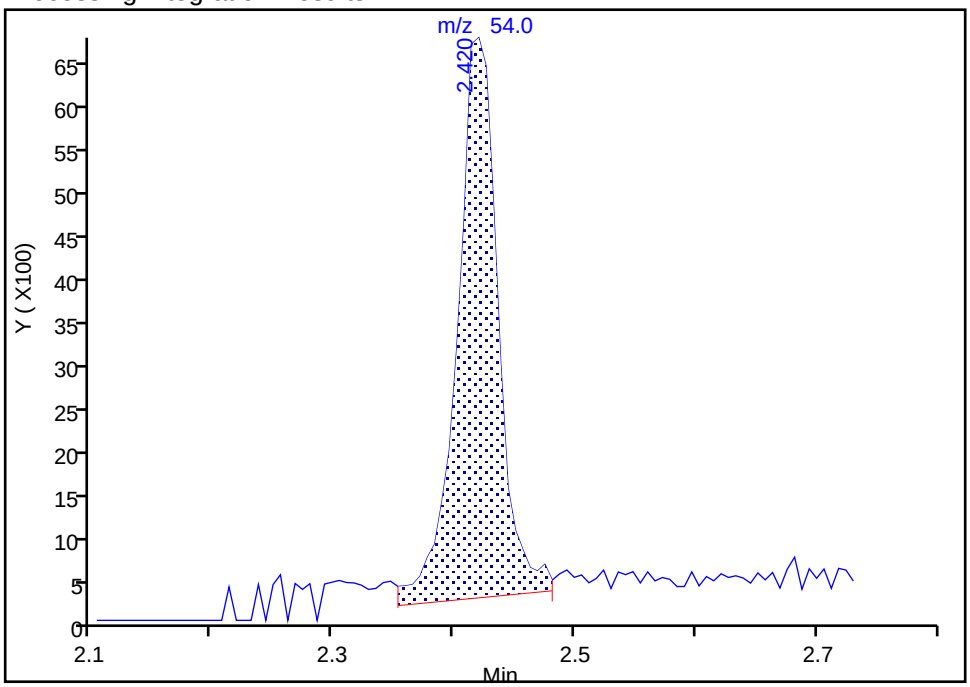
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

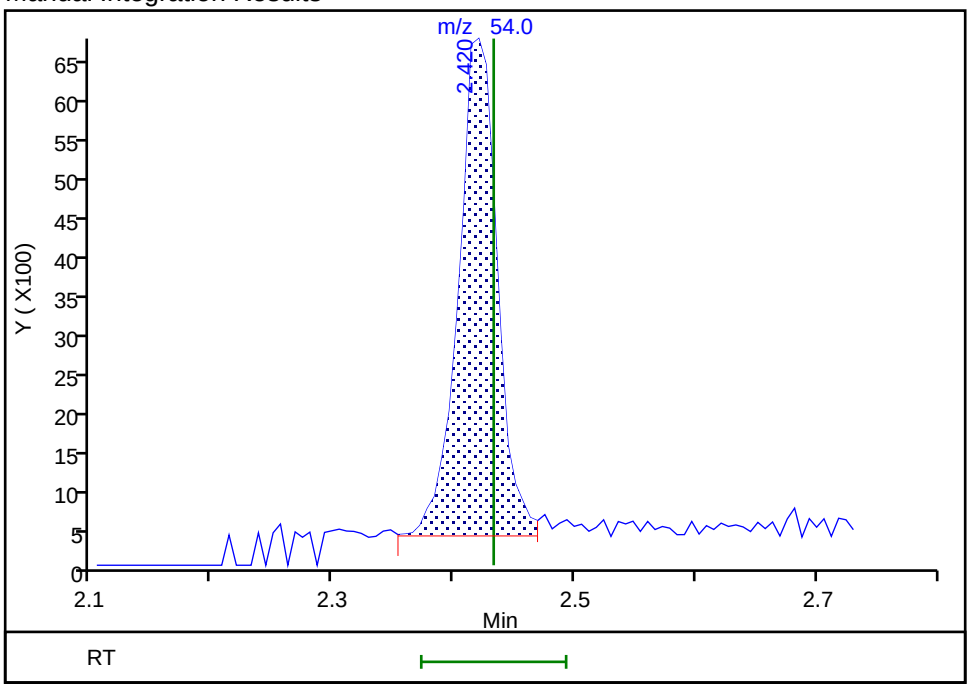
Processing Integration Results

RT: 2.42
Area: 15392
Amount: 2.843923
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 14303
Amount: 2.779215
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:53:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

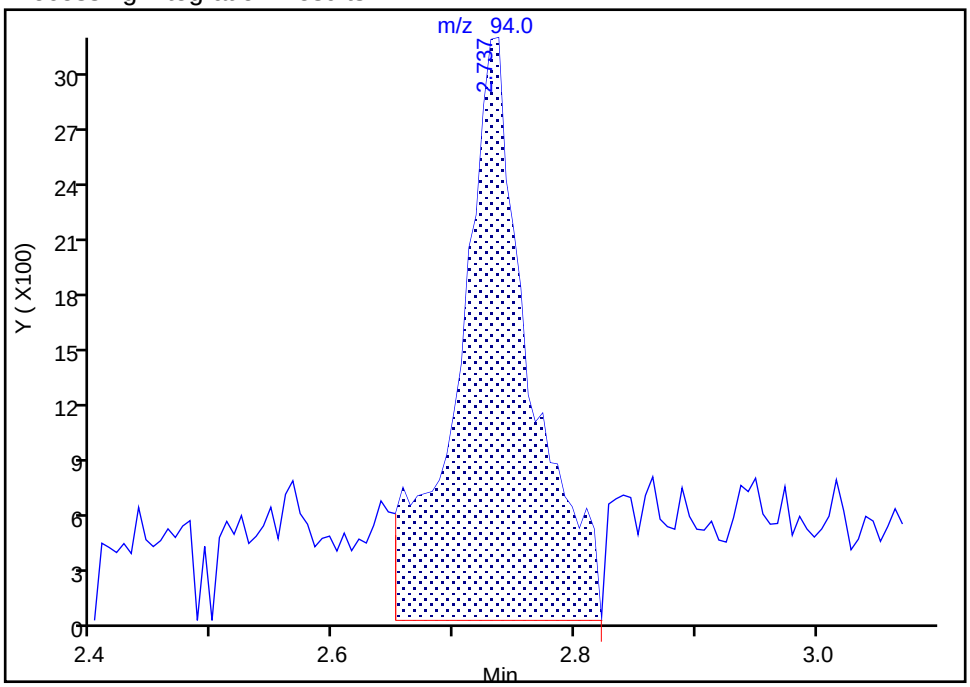
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7813.D
Injection Date: 11-Jan-2019 11:17:30 Instrument ID: HP5973F
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 2 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

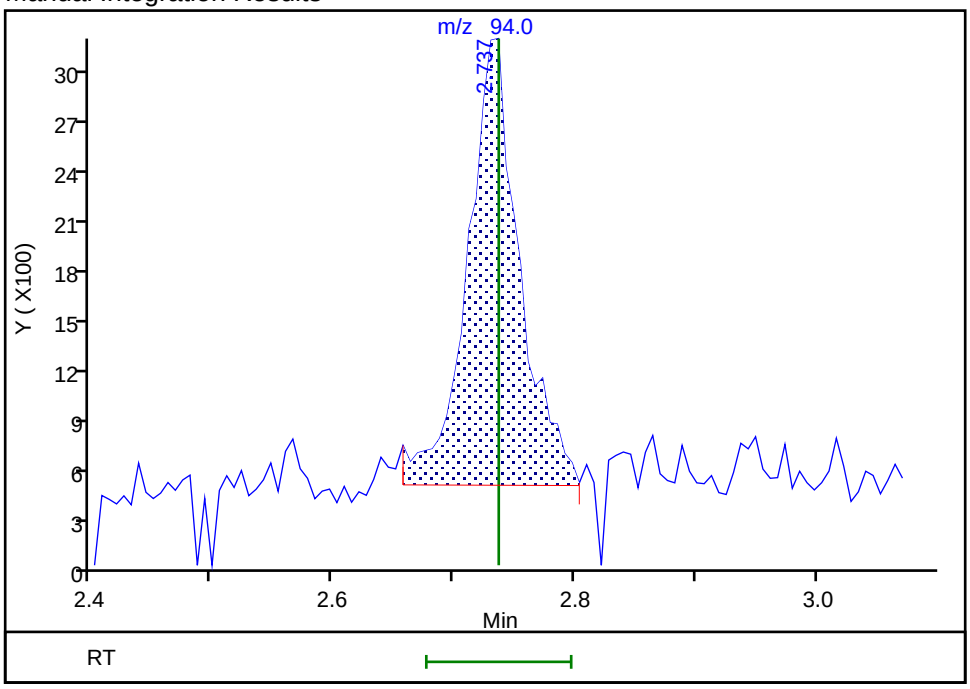
Processing Integration Results

RT: 2.74
Area: 12928
Amount: 2.930150
Amount Units: ug/kg



Manual Integration Results

RT: 2.74
Area: 7988
Amount: 2.648354
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:53:28
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Lims ID: IC 2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jan-2019 11:43:30 ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 2
Misc. Info.: 480-0077924-007
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:41 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:54:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.730	-0.006	99	218239	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	434634	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.870	-0.006	95	409203	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	250470	50.0	49.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	161584	50.0	49.7	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1019046	50.0	49.7	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	338986	50.0	49.2	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	98	27648	5.00	5.33	
12 Chloromethane	50	2.311	2.317	-0.006	99	32749	5.00	5.66	M
13 Vinyl chloride	62	2.414	2.414	0.000	96	27425	5.00	5.22	
151 Butadiene	54	2.427	2.433	-0.007	91	27599	5.00	5.29	M
14 Bromomethane	94	2.731	2.737	-0.006	89	15111	5.00	4.94	M
15 Chloroethane	64	2.785	2.798	-0.013	98	15857	5.00	5.43	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	36627	5.00	5.47	
17 Trichlorofluoromethane	101	2.986	2.992	-0.006	98	37113	5.00	5.24	
18 Ethyl ether	59	3.193	3.193	0.000	92	28769	5.00	4.90	
20 Acrolein	56	3.339	3.339	0.000	99	27158	25.0	24.7	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	92	23437	5.00	4.98	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	25332	5.00	5.06	
23 Acetone	43	3.461	3.455	0.006	99	59216	25.0	24.8	
25 Iodomethane	142	3.576	3.582	-0.006	98	41605	5.00	4.90	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	86043	5.00	5.09	
27 Methyl acetate	43	3.686	3.686	0.000	98	66483	10.0	10.1	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	92	53775	5.00	5.05	
30 Methylene Chloride	84	3.801	3.808	-0.007	96	42596	5.00	6.39	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	99	42498	50.0	49.2	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	91522	5.00	4.95	
33 Acrylonitrile	53	4.002	4.002	0.000	99	137812	50.0	50.6	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	97	29591	5.00	5.02	
35 Hexane	57	4.160	4.160	0.000	93	72213	5.00	6.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	131468	10.0	9.96	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	54674	5.00	5.04	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	98628	25.0	25.0	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	83	33388	5.00	4.94	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	59	41426	5.00	5.00	
48 Chlorobromomethane	128	5.006	5.006	0.000	94	15566	5.00	4.83	
49 Tetrahydrofuran	42	5.036	5.036	0.000	71	27619	10.0	10.4	
50 Chloroform	83	5.036	5.043	-0.007	93	49850	5.00	4.99	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	99	40376	5.00	5.01	
52 Cyclohexane	56	5.237	5.243	-0.006	91	55505	5.00	5.08	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	98	42123	5.00	4.92	
55 Carbon tetrachloride	117	5.341	5.341	0.000	92	35726	5.00	4.94	
53 Isobutyl alcohol	43	5.347	5.347	0.000	96	47775	125.0	115.6	
57 Benzene	78	5.511	5.517	-0.006	92	126582	5.00	5.07	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	41524	5.00	5.06	
59 n-Heptane	43	5.620	5.620	0.000	94	58121	5.00	4.98	
62 Trichloroethene	95	6.040	6.040	0.000	97	31643	5.00	5.09	
64 Methylcyclohexane	83	6.192	6.198	-0.006	90	55957	5.00	4.98	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	96	32171	5.00	4.89	
66 1,4-Dioxane	88	6.363	6.357	0.006	90	5157	100.0	74.3	
67 Dibromomethane	93	6.387	6.387	0.000	93	18335	5.00	4.87	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	37295	5.00	4.81	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	22547	5.00	4.82	
72 cis-1,3-Dichloropropene	75	6.874	6.880	-0.006	96	51387	5.00	4.90	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	182603	25.0	25.3	
74 Toluene	92	7.190	7.190	0.000	99	80353	5.00	5.07	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	95	46788	5.00	4.78	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	43304	5.00	4.80	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	23132	5.00	4.89	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	34401	5.00	4.92	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	95	50527	5.00	4.92	
80 2-Hexanone	43	7.774	7.774	0.000	97	145316	25.0	25.3	
83 Chlorodibromomethane	129	8.005	8.005	0.000	89	27669	5.00	4.61	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	28384	5.00	4.83	
87 Chlorobenzene	112	8.607	8.608	-0.001	96	89131	5.00	5.01	
88 Ethylbenzene	91	8.674	8.674	0.000	98	147204	5.00	5.14	
89 1,1,1,2-Tetrachloroethane	131	8.687	8.681	0.005	92	27577	5.00	4.78	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	100	57876	5.00	4.92	
91 o-Xylene	106	9.222	9.222	0.000	96	54733	5.00	4.95	
92 Styrene	104	9.240	9.240	0.000	95	98843	5.00	4.98	
95 Bromoform	173	9.496	9.496	0.000	95	17944	5.00	4.31	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	141480	5.00	5.27	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	93	35901	5.00	4.99	
101 Bromobenzene	156	9.946	9.946	0.000	94	38146	5.00	4.98	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	68	12220	5.00	4.77	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	86	11426	5.00	4.93	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	168264	5.00	5.24	
103 2-Chlorotoluene	126	10.110	10.110	0.000	97	34197	5.00	5.03	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	117698	5.00	5.21	
105 4-Chlorotoluene	126	10.213	10.214	-0.001	97	37259	5.00	5.07	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	27761	5.00	5.11	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	96	119871	5.00	5.18	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	152530	5.00	5.26	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	131282	5.00	5.19	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	70920	5.00	5.07	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	72356	5.00	5.05	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	114467	5.00	5.14	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	99	65063	5.00	5.02	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	86	7753	5.00	5.43	
119 1,2,4-Trichlorobenzene	180	12.574	12.568	0.006	94	44307	5.00	5.05	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	24914	5.00	5.12	
121 Naphthalene	128	12.811	12.811	0.000	97	113765	5.00	5.02	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	95	40886	5.00	5.00	
S 125 1,2-Dichloroethene, Total	1				0			9.97	
S 126 1,3-Dichloropropene, Total	1				0			9.68	
S 123 Total BTEX	1				0			25.1	
S 124 Xylenes, Total	1				0			9.88	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added:	5.00	Units: uL	
GAS CORP mix_00321	Amount Added:	5.00	Units: uL	
F 8260 IS/SS_00078	Amount Added:	1.00	Units: uL	Run Reagent

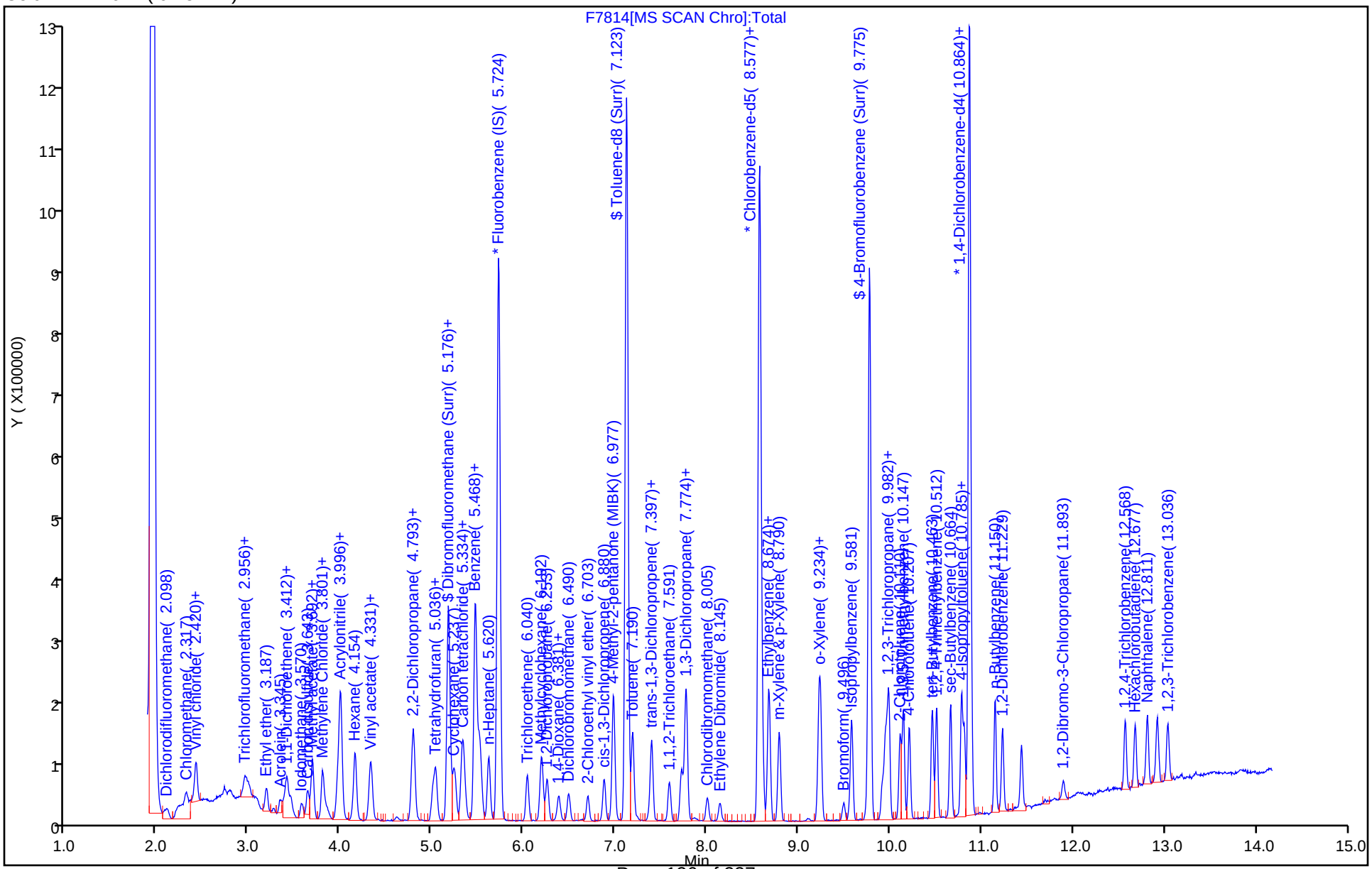
Report Date: 14-Jan-2019 10:30:45 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D

Injection Date:	11-Jan-2019 11:43:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 2			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

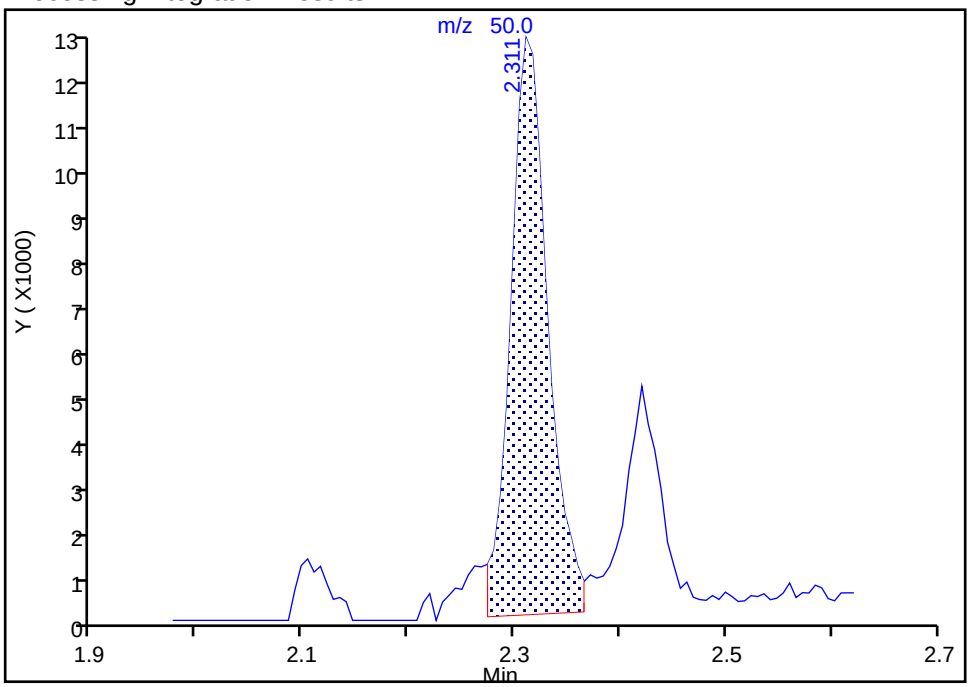
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

12 Chloromethane, CAS: 74-87-3

Signal: 1

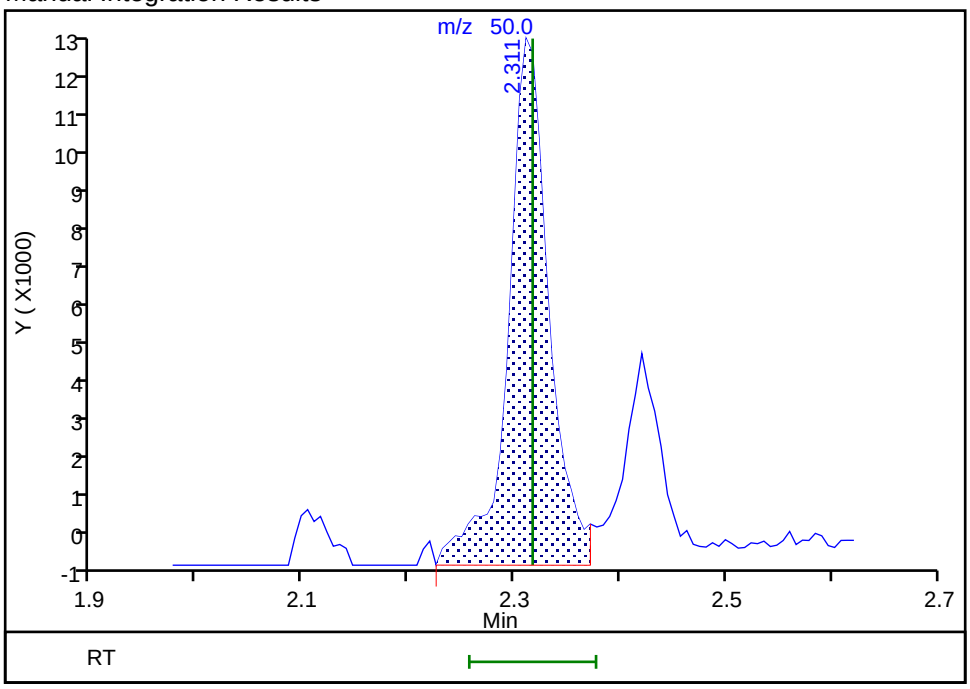
Processing Integration Results

RT: 2.31
Area: 29687
Amount: 5.142849
Amount Units: ug/kg



Manual Integration Results

RT: 2.31
Area: 32749
Amount: 5.662622
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:56:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

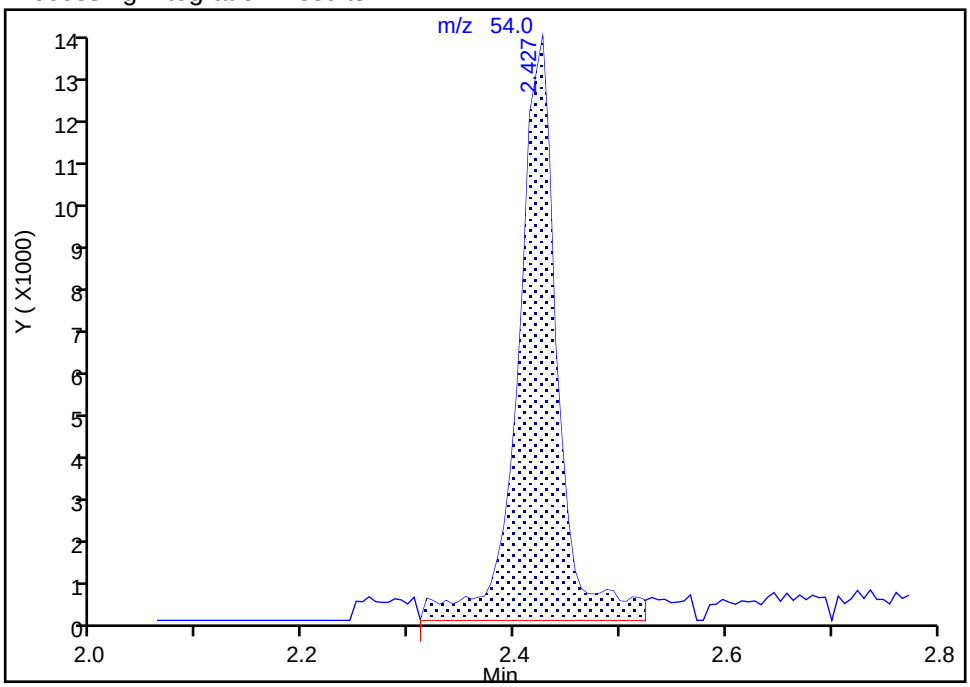
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

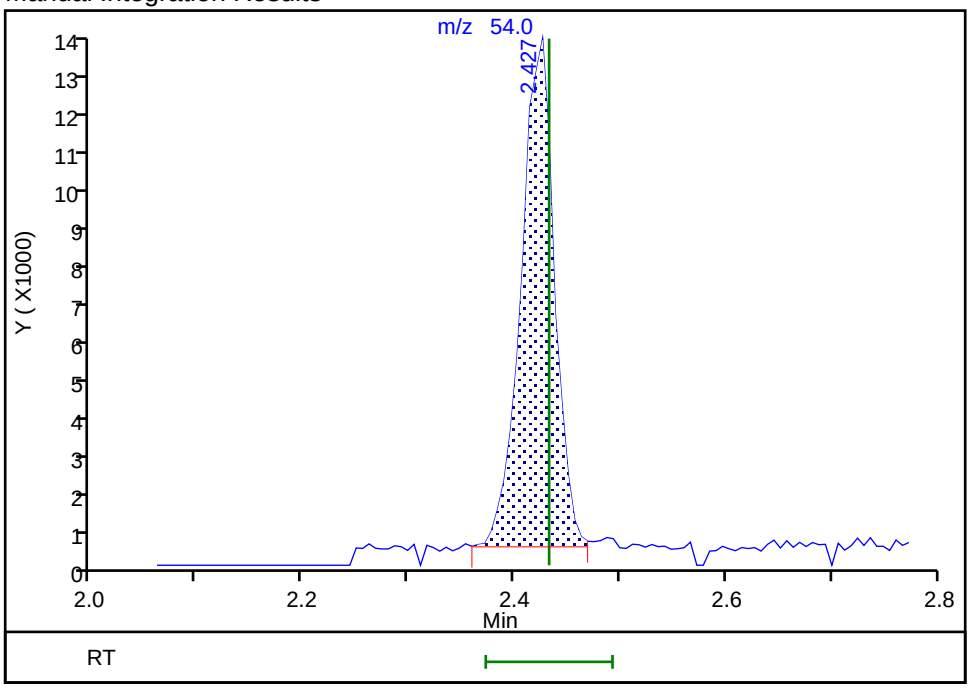
Processing Integration Results

RT: 2.43
Area: 33657
Amount: 6.206205
Amount Units: ug/kg



Manual Integration Results

RT: 2.43
Area: 27599
Amount: 5.290466
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:58:12
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

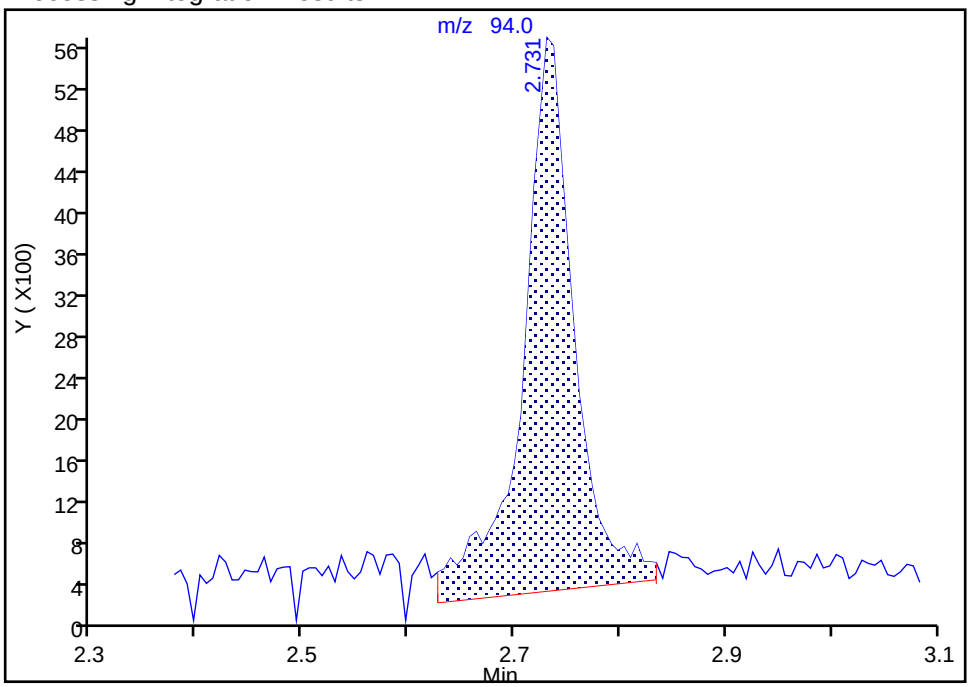
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

14 Bromomethane, CAS: 74-83-9

Signal: 1

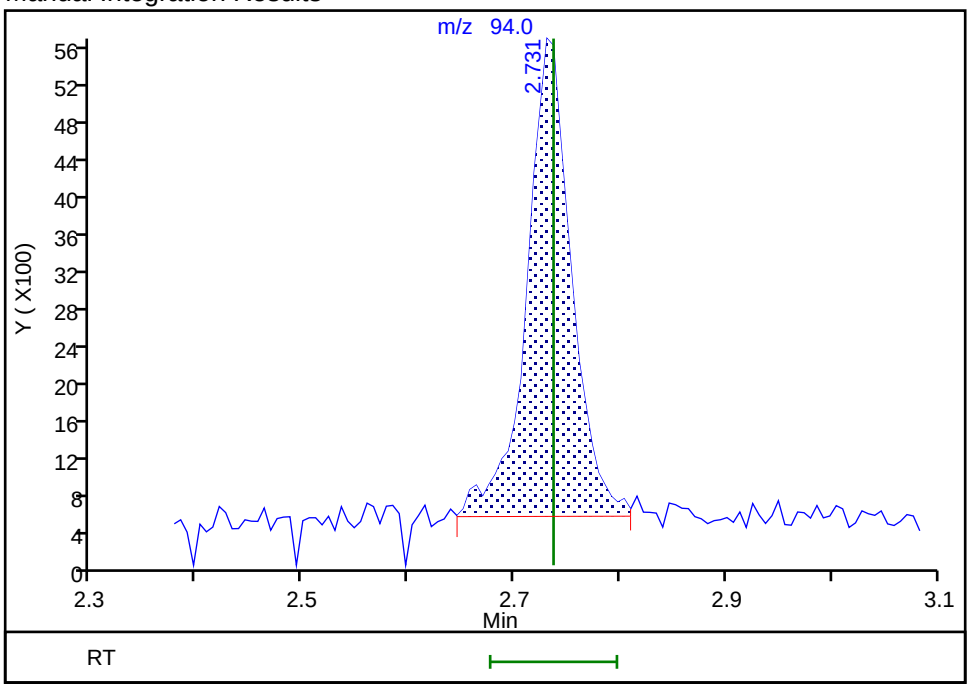
Processing Integration Results

RT: 2.73
Area: 18333
Amount: 5.820950
Amount Units: ug/kg



Manual Integration Results

RT: 2.73
Area: 15111
Amount: 4.942388
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:58:33
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

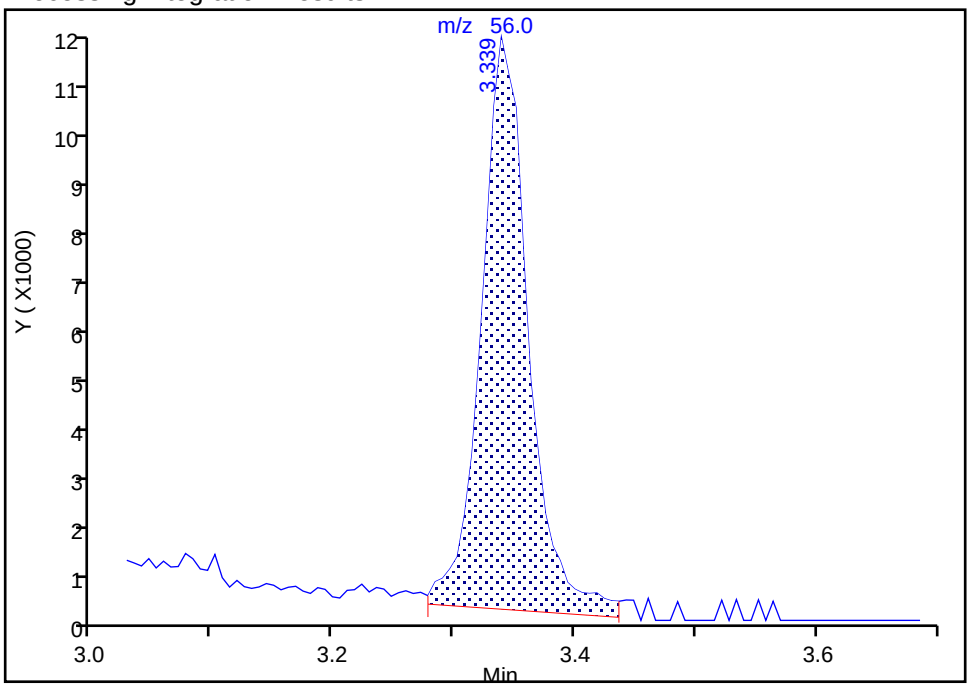
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7814.D
Injection Date: 11-Jan-2019 11:43:30 Instrument ID: HP5973F
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

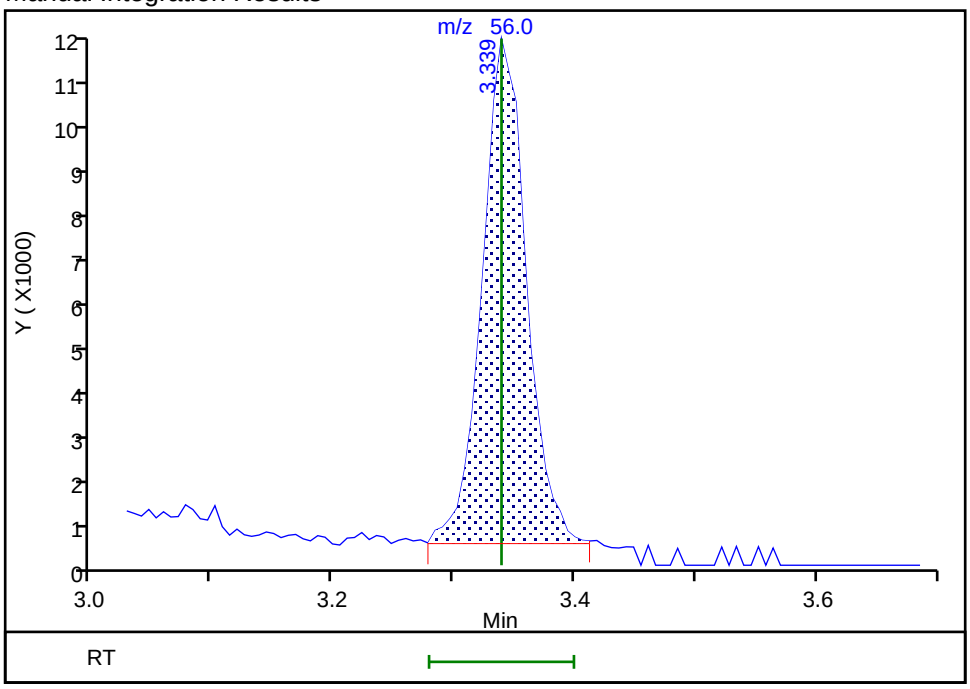
Processing Integration Results

RT: 3.34
Area: 29798
Amount: 26.584772
Amount Units: ug/kg



Manual Integration Results

RT: 3.34
Area: 27158
Amount: 24.662655
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 14:59:10
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Lims ID: IC 3
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jan-2019 12:09:30 ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 3
Misc. Info.: 480-0077924-008
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:53 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:02:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.730	0.000	99	217446	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	431406	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.870	-0.006	95	411352	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	249518	50.0	49.6	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	160056	50.0	49.4	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	1017277	50.0	50.0	
$ 6 4-Bromofluorobenzene (Surr	174	9.782	9.776	0.006	93	340409	50.0	49.7	
10 Dichlorodifluoromethane	85	2.116	2.110	0.006	99	51394	10.0	9.95	
12 Chloromethane	50	2.323	2.317	0.006	99	61741	10.0	10.7	
13 Vinyl chloride	62	2.420	2.414	0.006	97	53600	10.0	10.2	M
151 Butadiene	54	2.433	2.433	0.000	90	54375	10.0	10.5	M
14 Bromomethane	94	2.749	2.737	0.012	90	30626	10.0	10.1	
15 Chloroethane	64	2.804	2.798	0.006	99	29472	10.0	10.1	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	68676	10.0	10.3	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	70923	10.0	10.0	
18 Ethyl ether	59	3.193	3.193	0.000	92	57736	10.0	9.87	
20 Acrolein	56	3.345	3.339	0.006	100	53280	50.0	48.6	M
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	92	47451	10.0	10.1	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	50435	10.0	10.1	
23 Acetone	43	3.461	3.455	0.006	100	113985	50.0	47.9	
25 Iodomethane	142	3.582	3.582	0.000	97	86298	10.0	10.2	
26 Carbon disulfide	76	3.643	3.643	0.000	99	173051	10.0	10.3	
27 Methyl acetate	43	3.692	3.686	0.006	99	126992	20.0	19.4	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	94	107826	10.0	10.2	
30 Methylene Chloride	84	3.808	3.808	0.000	96	71245	10.0	10.7	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	99	79912	100.0	92.8	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	183110	10.0	9.94	
33 Acrylonitrile	53	4.002	4.002	0.000	99	269684	100.0	99.3	
34 trans-1,2-Dichloroethene	96	4.014	4.008	0.006	97	57622	10.0	9.82	
35 Hexane	57	4.160	4.160	0.000	93	122516	10.0	10.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	264175	20.0	20.1	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	108900	10.0	10.1	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	191684	50.0	48.8	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	94	66892	10.0	9.94	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	60	83583	10.0	10.1	
48 Chlorobromomethane	128	5.012	5.006	0.006	95	31329	10.0	9.76	
49 Tetrahydrofuran	42	5.036	5.036	0.000	70	51400	20.0	19.4	
50 Chloroform	83	5.042	5.043	-0.001	94	100884	10.0	10.1	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	79422	10.0	9.90	
52 Cyclohexane	56	5.249	5.243	0.006	91	108589	10.0	9.98	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	85903	10.0	10.1	
55 Carbon tetrachloride	117	5.347	5.341	0.006	92	72138	10.0	10.0	
53 Isobutyl alcohol	43	5.347	5.347	0.000	94	100797	250.0	244.8	
57 Benzene	78	5.517	5.517	0.000	95	250920	10.0	10.1	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	96	81792	10.0	10.0	
59 n-Heptane	43	5.620	5.620	0.000	94	118894	10.0	10.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	61670	10.0	9.96	
64 Methylcyclohexane	83	6.198	6.198	0.000	89	112380	10.0	10.0	
65 1,2-Dichloropropane	63	6.253	6.259	-0.006	95	65766	10.0	10.0	
66 1,4-Dioxane	88	6.363	6.357	0.006	95	14336	200.0	208.1	M
67 Dibromomethane	93	6.381	6.387	-0.006	92	36847	10.0	9.82	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	75626	10.0	9.80	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	45250	10.0	9.72	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	95	102485	10.0	9.81	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	97	364109	50.0	50.9	
74 Toluene	92	7.190	7.190	0.000	98	157587	10.0	10.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	95	95702	10.0	9.85	
75 Ethyl methacrylate	69	7.403	7.403	0.000	90	87843	10.0	9.81	
79 1,1,2-Trichloroethane	83	7.585	7.592	-0.007	92	46279	10.0	9.85	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	70070	10.0	10.1	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	102994	10.0	10.1	
80 2-Hexanone	43	7.774	7.774	0.000	96	281507	50.0	49.5	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	57087	10.0	9.59	
84 Ethylene Dibromide	107	8.145	8.145	0.000	97	57106	10.0	9.79	
87 Chlorobenzene	112	8.607	8.608	-0.001	95	176456	10.0	9.99	
88 Ethylbenzene	91	8.674	8.674	0.000	98	290831	10.0	10.2	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	94	55945	10.0	9.78	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	117549	10.0	10.1	
91 o-Xylene	106	9.222	9.222	0.000	96	110554	10.0	10.1	
92 Styrene	104	9.240	9.240	0.000	96	197450	10.0	10.0	
95 Bromoform	173	9.496	9.496	0.000	97	38626	10.0	9.35	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	281165	10.0	10.4	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	72293	10.0	10.0	
101 Bromobenzene	156	9.952	9.946	0.006	95	77989	10.0	10.1	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.964	-0.006	72	24689	10.0	9.58	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	84	22572	10.0	9.70	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	335825	10.0	10.4	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	69356	10.0	10.2	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	232820	10.0	10.2	
105 4-Chlorotoluene	126	10.207	10.214	-0.007	97	73927	10.0	10.0	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	55085	10.0	10.1	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	94	238901	10.0	10.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	303412	10.0	10.4	
110 4-Isopropyltoluene	119	10.779	10.785	-0.006	97	263690	10.0	10.4	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	97	141992	10.0	10.1	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	145312	10.0	10.1	
115 n-Butylbenzene	91	11.144	11.150	-0.006	98	229539	10.0	10.3	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	130361	10.0	10.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	87	13926	10.0	9.70	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	89026	10.0	10.1	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	51645	10.0	10.6	
121 Naphthalene	128	12.811	12.811	0.000	97	227133	10.0	9.98	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	82875	10.0	10.1	
S 125 1,2-Dichloroethene, Total	1				0			19.8	
S 126 1,3-Dichloropropene, Total	1				0			19.7	
S 123 Total BTEX	1				0			50.5	
S 124 Xylenes, Total	1				0			20.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 10.00	Units: uL	
GAS CORP mix_00321	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

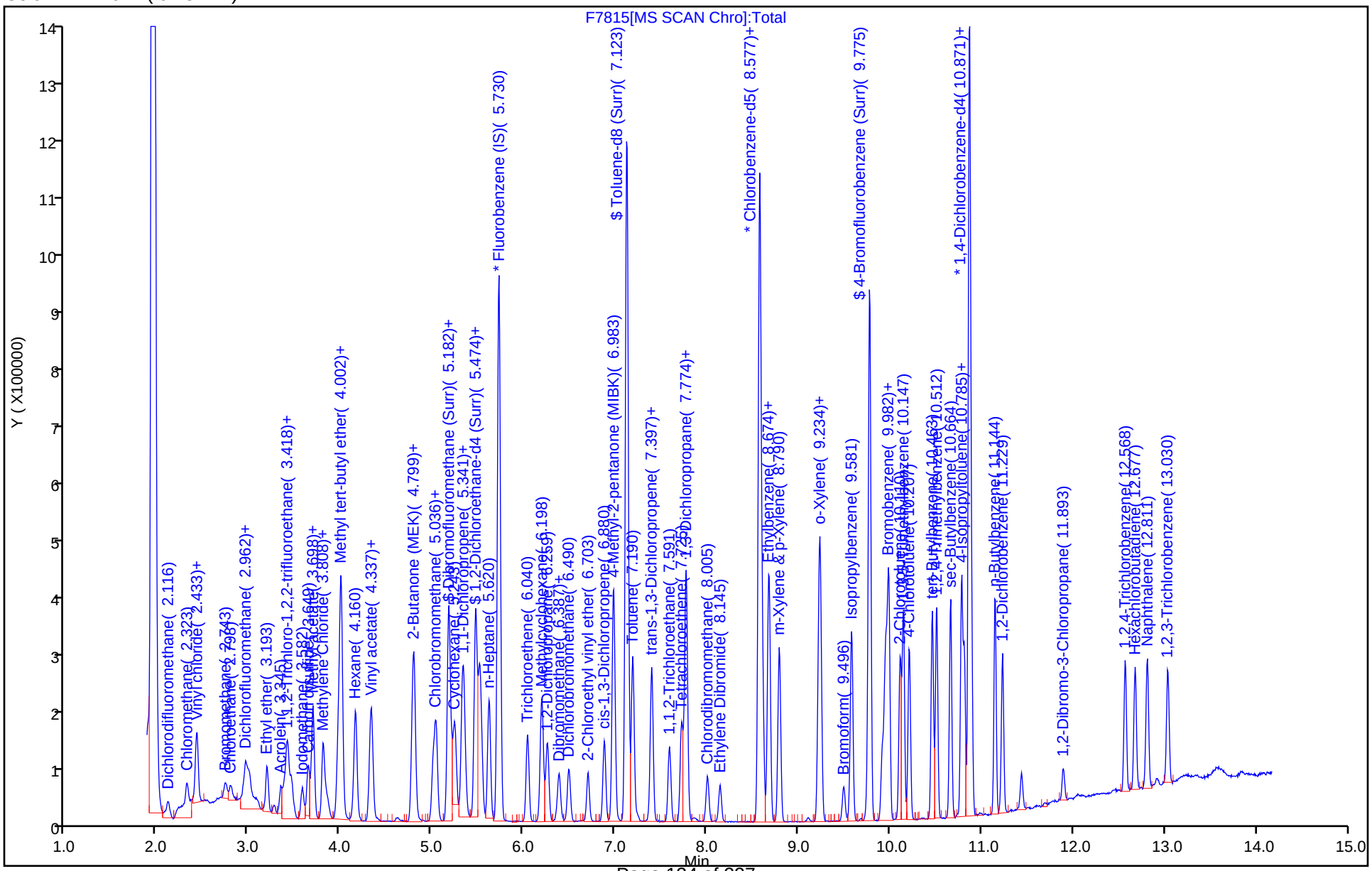
Report Date: 14-Jan-2019 10:30:57 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D

Injection Date:	11-Jan-2019 12:09:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 3			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

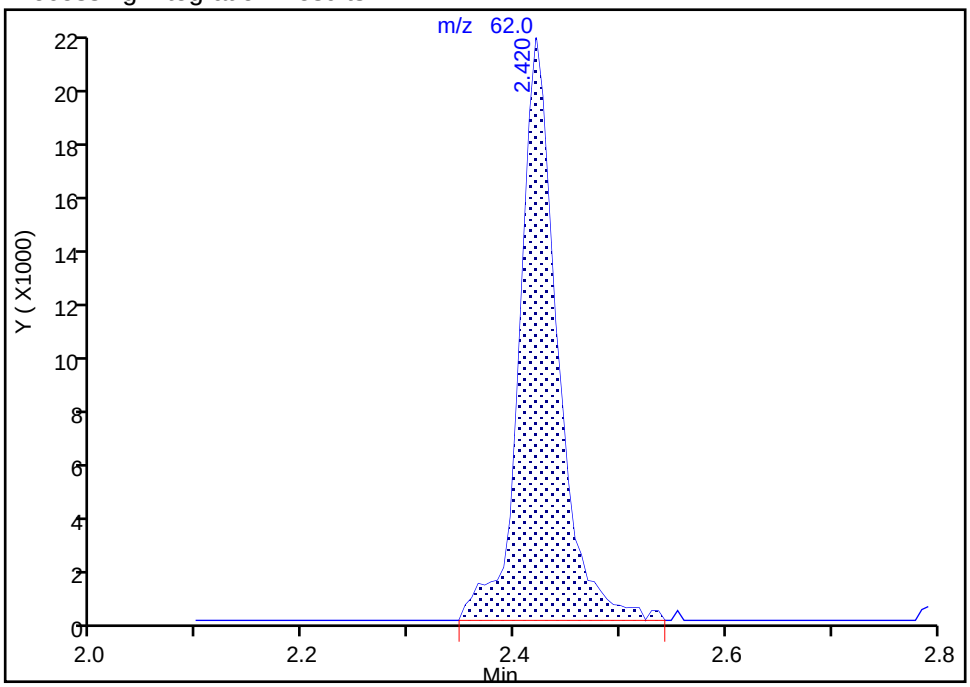
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

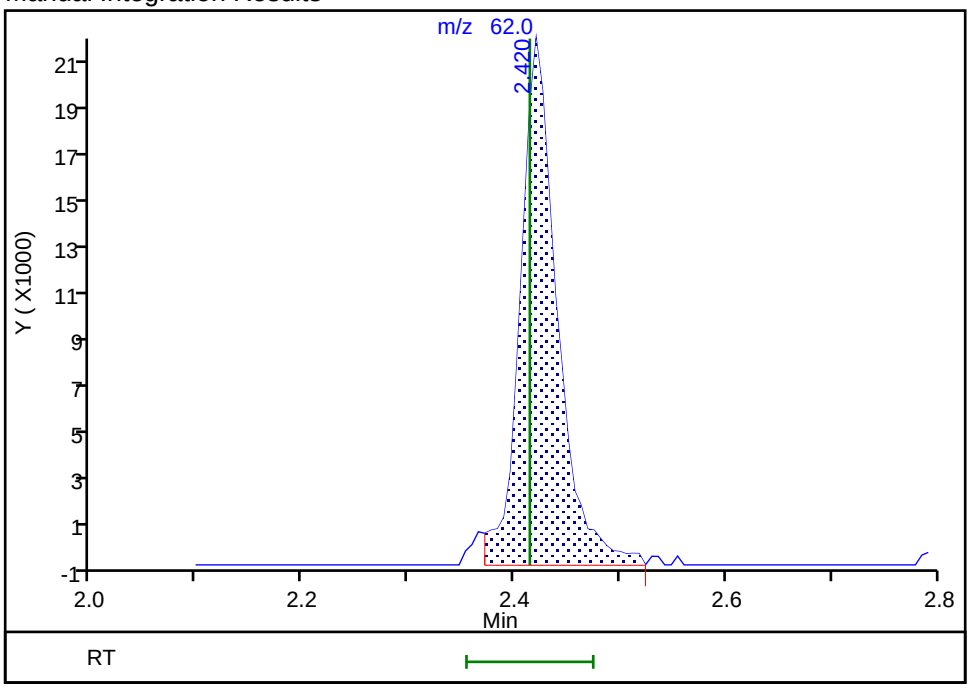
Processing Integration Results

RT: 2.42
Area: 54743
Amount: 10.337874
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 53600
Amount: 10.242950
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:00:51
Audit Action: Manually Integrated Audit Reason: Other

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

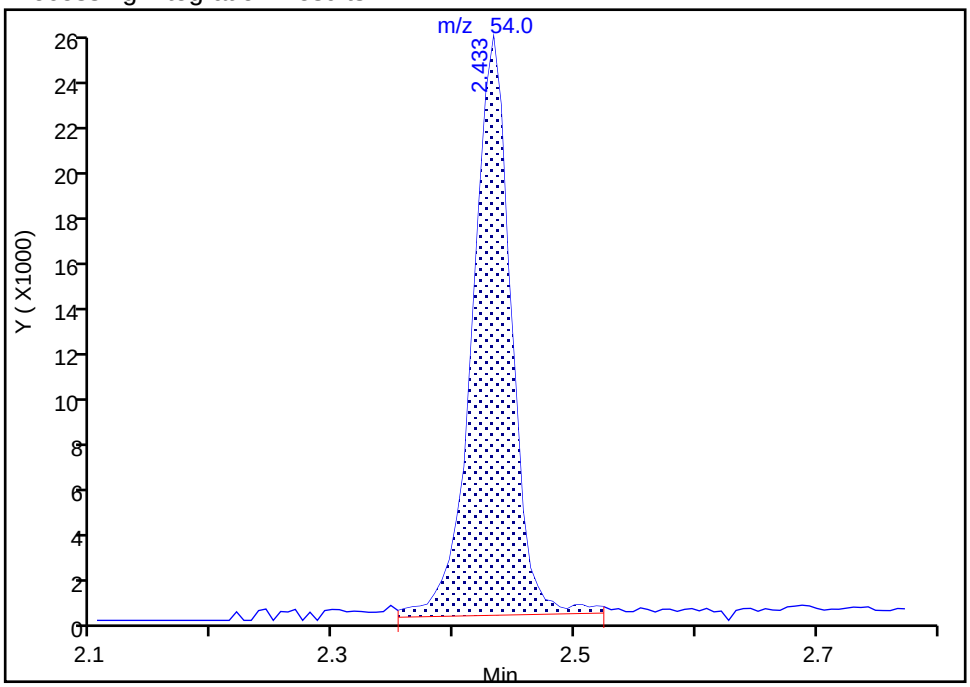
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

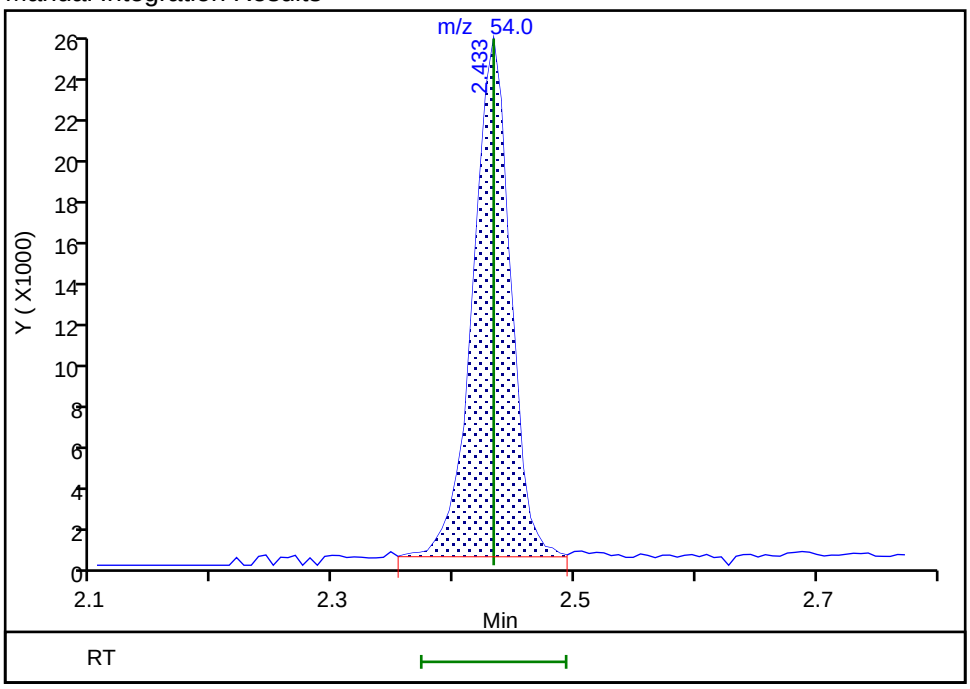
Processing Integration Results

RT: 2.43
Area: 56697
Amount: 10.838740
Amount Units: ug/kg



Manual Integration Results

RT: 2.43
Area: 54375
Amount: 10.461182
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:19
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

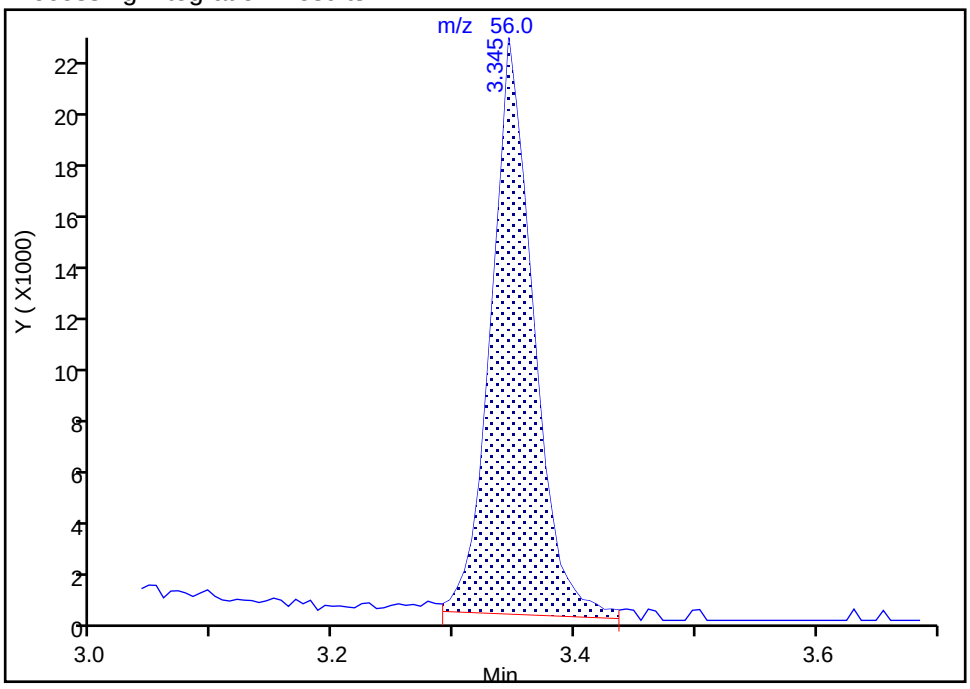
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

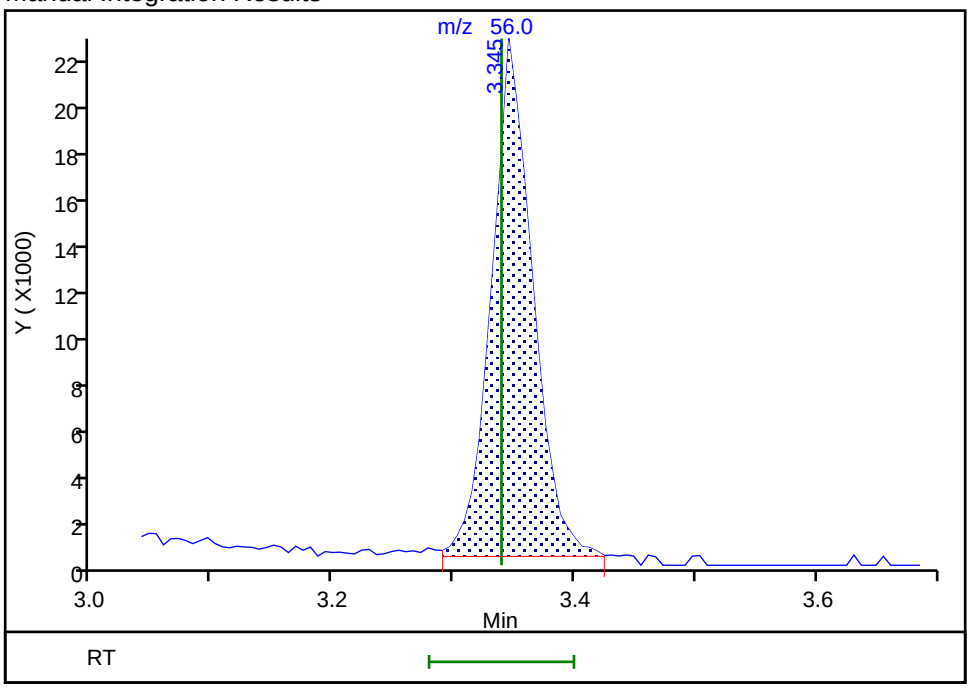
Processing Integration Results

RT: 3.35
Area: 54885
Amount: 49.815591
Amount Units: ug/kg



Manual Integration Results

RT: 3.35
Area: 53280
Amount: 48.560954
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:38
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Buffalo

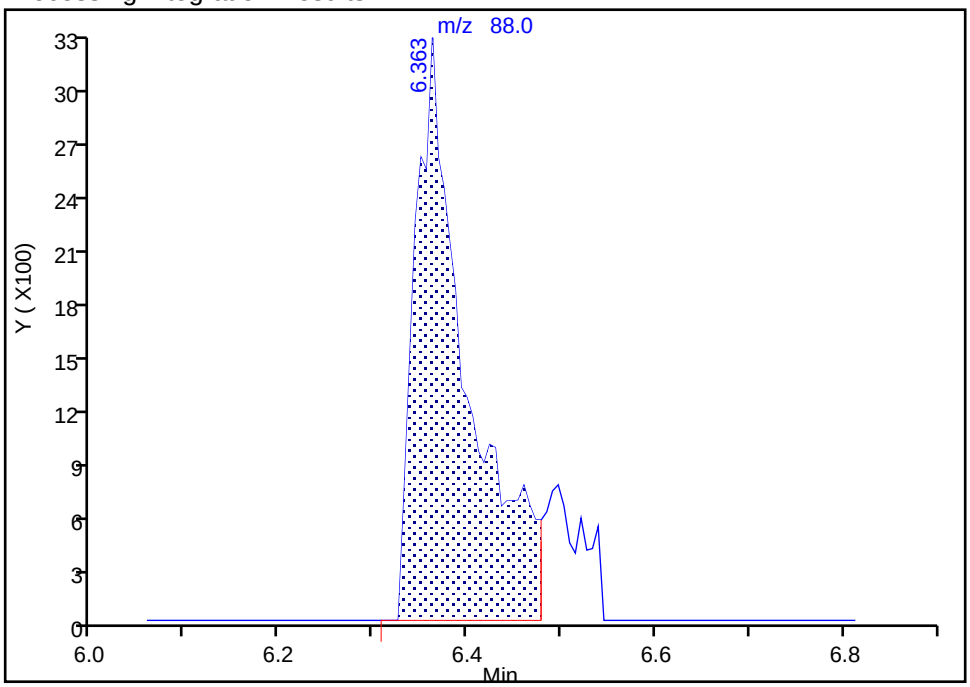
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7815.D
Injection Date: 11-Jan-2019 12:09:30 Instrument ID: HP5973F
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

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

Signal: 1

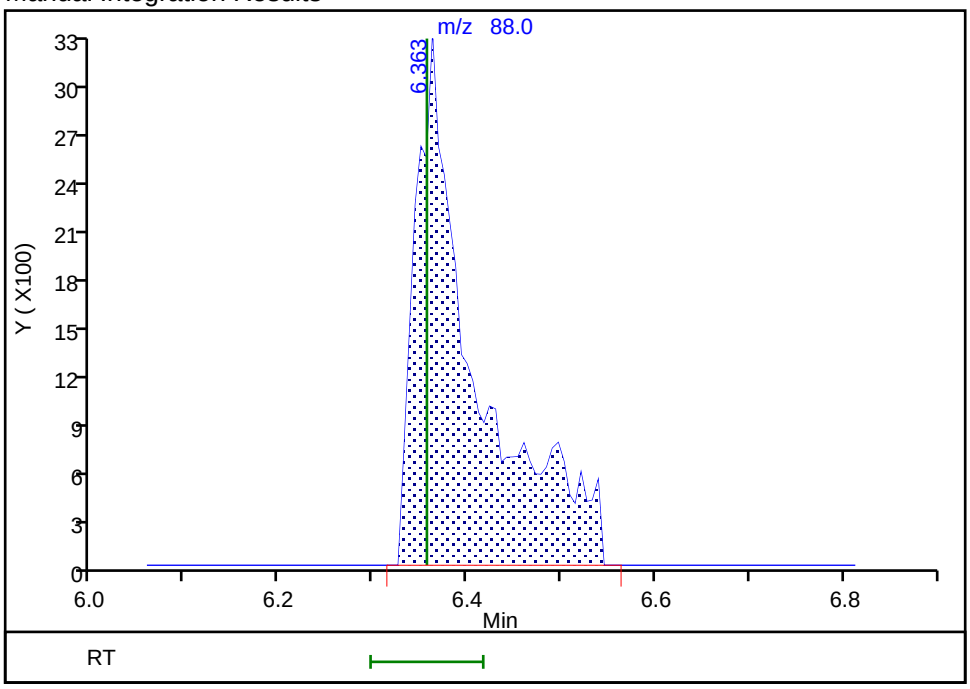
Processing Integration Results

RT: 6.36
Area: 12377
Amount: 192.3715
Amount Units: ug/kg



Manual Integration Results

RT: 6.36
Area: 14336
Amount: 208.0977
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:01:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D
Lims ID: IC 4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jan-2019 12:35:30 ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 4
Misc. Info.: 480-0077924-009
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:05 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:10:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.730	0.000	99	217261	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	85	435871	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.870	0.001	95	420392	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	94	251435	50.0	50.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	161755	50.0	50.0	
$ 5 Toluene-d8 (Surr)	98	7.129	7.123	0.006	93	1030021	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.782	9.776	0.006	92	345511	50.0	50.0	
10 Dichlorodifluoromethane	85	2.122	2.110	0.012	99	102968	20.0	20.0	
12 Chloromethane	50	2.323	2.317	0.006	99	113047	20.0	19.6	
13 Vinyl chloride	62	2.421	2.414	0.007	98	102153	20.0	19.5	M
151 Butadiene	54	2.433	2.433	0.000	90	102164	20.0	19.7	
14 Bromomethane	94	2.743	2.737	0.006	89	60127	20.0	19.8	
15 Chloroethane	64	2.798	2.798	0.000	100	55685	20.0	19.1	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	129722	20.0	19.4	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	138688	20.0	19.7	
18 Ethyl ether	59	3.199	3.193	0.006	93	115375	20.0	19.7	
20 Acrolein	56	3.345	3.339	0.006	100	108739	100.0	99.2	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	93	94703	20.0	20.2	
22 1,1-Dichloroethene	96	3.424	3.418	0.006	97	98498	20.0	19.8	
23 Acetone	43	3.461	3.455	0.006	100	235584	100.0	99.0	
25 Iodomethane	142	3.582	3.582	0.000	98	168217	20.0	19.9	
26 Carbon disulfide	76	3.649	3.643	0.006	99	336257	20.0	20.0	
27 Methyl acetate	43	3.692	3.686	0.006	98	253458	40.0	38.7	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	95	213871	20.0	20.2	
30 Methylene Chloride	84	3.808	3.808	0.000	96	129667	20.0	19.6	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	100	171991	200.0	199.8	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	369580	20.0	20.1	
33 Acrylonitrile	53	4.002	4.002	0.000	100	542960	200.0	200.2	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	114732	20.0	19.6	
35 Hexane	57	4.167	4.160	0.006	93	229440	20.0	19.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	531768	40.0	40.5	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	214139	20.0	19.8	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	389355	100.0	99.3	
45 cis-1,2-Dichloroethene	96	4.805	4.799	0.006	82	132607	20.0	19.7	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	59	164364	20.0	19.9	
48 Chlorobromomethane	128	5.012	5.006	0.006	96	63452	20.0	19.8	
49 Tetrahydrofuran	42	5.043	5.036	0.007	91	103288	40.0	39.0	
50 Chloroform	83	5.043	5.043	0.000	94	196921	20.0	19.8	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	158400	20.0	19.8	
52 Cyclohexane	56	5.249	5.243	0.006	91	214342	20.0	19.7	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	169533	20.0	19.9	
55 Carbon tetrachloride	117	5.341	5.341	0.000	97	143523	20.0	19.9	
53 Isobutyl alcohol	43	5.353	5.347	0.006	94	212087	500.0	515.5	
57 Benzene	78	5.517	5.517	0.000	95	496262	20.0	20.0	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	161795	20.0	19.8	
59 n-Heptane	43	5.620	5.620	0.000	94	233529	20.0	20.1	
62 Trichloroethene	95	6.040	6.040	0.000	97	121820	20.0	19.7	
64 Methylcyclohexane	83	6.198	6.198	0.000	91	224012	20.0	20.0	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	97	129249	20.0	19.8	
66 1,4-Dioxane	88	6.357	6.357	0.000	95	28990	400.0	416.5	
67 Dibromomethane	93	6.387	6.387	0.000	94	74378	20.0	19.8	
68 Dichlorobromomethane	83	6.497	6.490	0.007	99	152646	20.0	19.8	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	92574	20.0	19.9	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	208385	20.0	20.0	
73 4-Methyl-2-pentanone (MIBK	43	6.983	6.977	0.006	97	735582	100.0	101.7	
74 Toluene	92	7.190	7.190	0.000	99	315409	20.0	19.8	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	96	195637	20.0	19.9	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	177359	20.0	19.6	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	93313	20.0	19.7	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	138599	20.0	19.8	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	204840	20.0	19.9	
80 2-Hexanone	43	7.774	7.774	0.000	97	581117	100.0	101.1	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	117567	20.0	19.5	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	117149	20.0	19.9	
87 Chlorobenzene	112	8.608	8.608	0.000	95	355559	20.0	19.9	
88 Ethylbenzene	91	8.674	8.674	0.000	98	575117	20.0	20.0	
89 1,1,1,2-Tetrachloroethane	131	8.681	8.681	0.000	95	113673	20.0	19.7	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	234147	20.0	19.9	
91 o-Xylene	106	9.228	9.222	0.006	96	219225	20.0	19.8	
92 Styrene	104	9.240	9.240	0.000	95	395064	20.0	19.8	
95 Bromoform	173	9.496	9.496	0.000	98	81082	20.0	19.4	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	551445	20.0	20.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	146480	20.0	19.8	
101 Bromobenzene	156	9.946	9.946	0.000	94	156906	20.0	19.9	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	74	52348	20.0	19.9	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	82	46571	20.0	19.6	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	666044	20.0	20.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	139633	20.0	20.0	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	467744	20.0	20.1	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	148820	20.0	19.7	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	111258	20.0	19.9	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	475645	20.0	20.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	602670	20.0	20.2	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	97	525455	20.0	20.2	
111 1,3-Dichlorobenzene	146	10.816	10.810	0.006	98	287106	20.0	20.0	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	293736	20.0	19.9	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	457396	20.0	20.0	
116 1,2-Dichlorobenzene	146	11.230	11.230	0.000	98	265950	20.0	20.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	88	28675	20.0	19.5	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	179145	20.0	19.9	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	96	99950	20.0	20.0	
121 Naphthalene	128	12.811	12.811	0.000	97	465488	20.0	20.0	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	168137	20.0	20.0	
S 125 1,2-Dichloroethene, Total	1				0			39.3	
S 126 1,3-Dichloropropene, Total	1				0			39.9	
S 123 Total BTEX	1				0			99.4	
S 124 Xylenes, Total	1				0			39.6	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 10.00	Units: uL	
GAS CORP mix_00321	Amount Added: 10.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

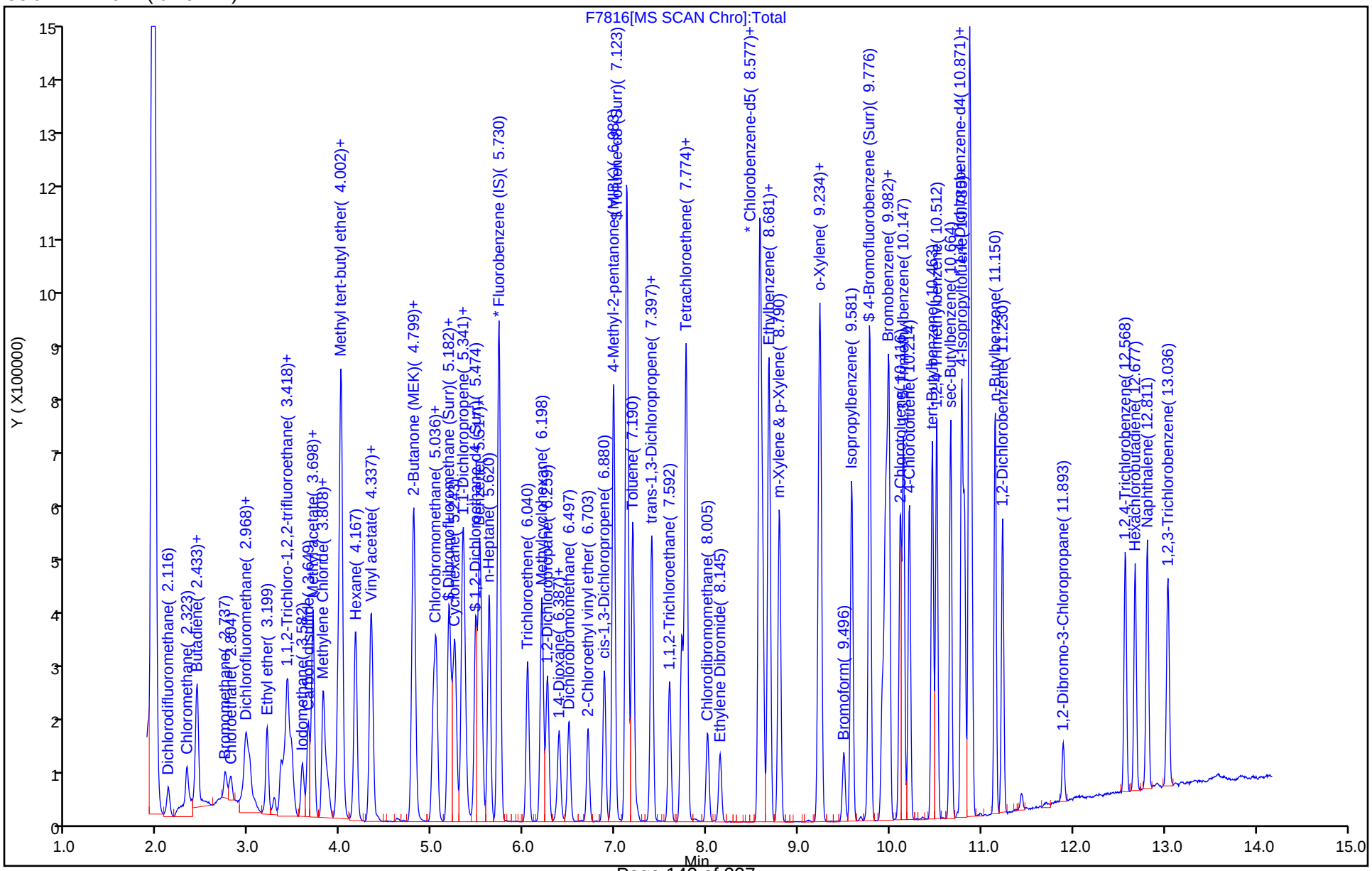
Report Date: 14-Jan-2019 10:31:10 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D

Injection Date:	11-Jan-2019 12:35:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 4			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

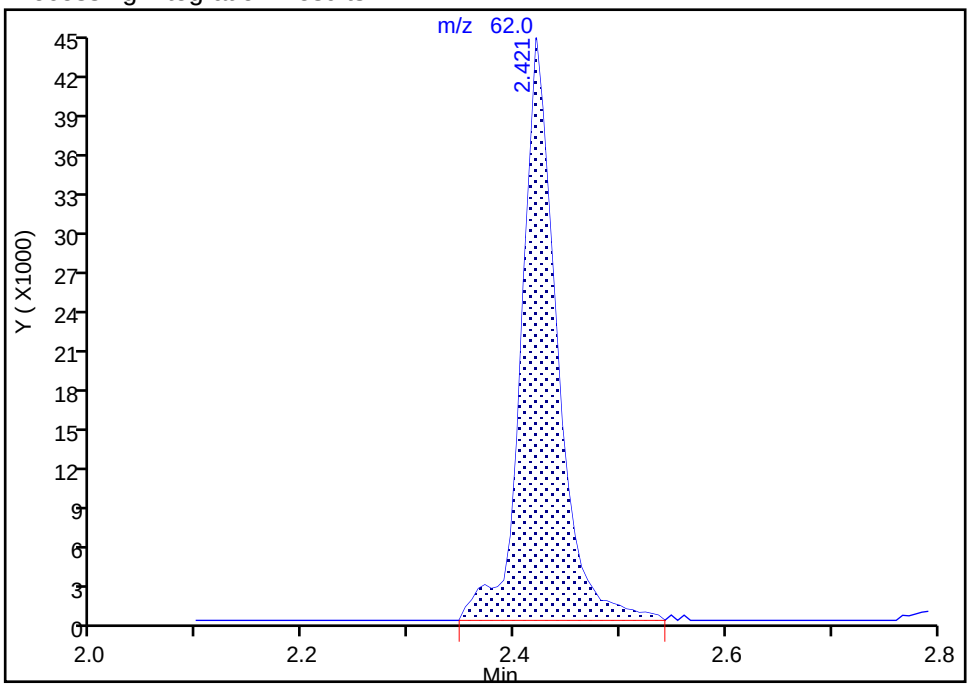
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7816.D
Injection Date: 11-Jan-2019 12:35:30 Instrument ID: HP5973F
Lims ID: IC 4
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

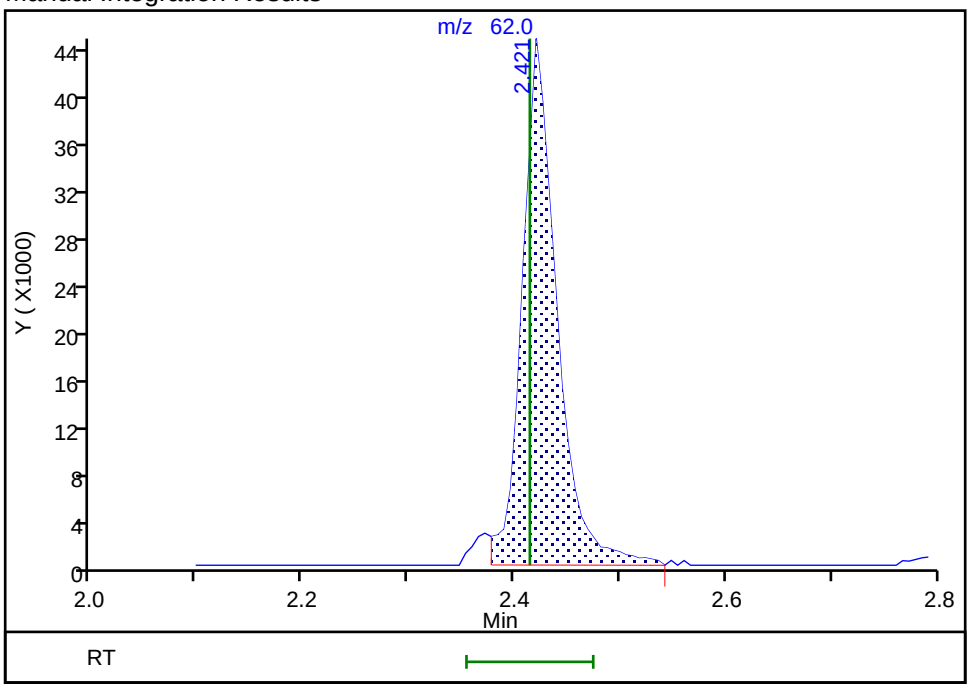
Processing Integration Results

RT: 2.42
Area: 105111
Amount: 19.927907
Amount Units: ug/kg



Manual Integration Results

RT: 2.42
Area: 102153
Amount: 19.538043
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:10:38
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7817.D
Lims ID: ICIS 5
Client ID:
Sample Type: ICIS Calib Level: 5
Inject. Date: 11-Jan-2019 13:01:30 ALS Bottle#: 6 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: ICIS 5
Misc. Info.: 480-0077924-010
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:17 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 14:47:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	222636	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	86	451187	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.871	0.000	94	444175	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	258922	50.0	50.3	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	166014	50.0	50.1	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1066872	50.0	50.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	92	362603	50.0	50.7	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	261704	50.0	49.5	
12 Chloromethane	50	2.317	2.317	0.000	99	286233	50.0	48.5	
13 Vinyl chloride	62	2.414	2.414	0.000	98	260555	50.0	48.6	
151 Butadiene	54	2.433	2.433	0.000	90	264396	50.0	49.7	
14 Bromomethane	94	2.737	2.737	0.000	90	155859	50.0	50.0	
15 Chloroethane	64	2.798	2.798	0.000	99	141782	50.0	47.6	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	330266	50.0	48.3	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	353717	50.0	48.9	
18 Ethyl ether	59	3.193	3.193	0.000	92	299212	50.0	50.0	
20 Acrolein	56	3.339	3.339	0.000	100	277420	250.0	247.0	
21 1,1,2-Trichloro-1,2,2-trif	101	3.388	3.388	0.000	92	239663	50.0	49.9	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	97	248935	50.0	48.7	
23 Acetone	43	3.455	3.455	0.000	100	596308	250.0	244.6	
25 Iodomethane	142	3.582	3.582	0.000	98	434988	50.0	50.2	
26 Carbon disulfide	76	3.643	3.643	0.000	99	837284	50.0	48.6	
27 Methyl acetate	43	3.686	3.686	0.000	98	665832	100.0	99.1	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	92	544152	50.0	50.1	
30 Methylene Chloride	84	3.808	3.808	0.000	96	311909	50.0	45.9	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	100	428503	500.0	485.9	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	954192	50.0	50.6	
33 Acrylonitrile	53	4.002	4.002	0.000	99	1384207	500.0	498.0	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	303407	50.0	50.5	
35 Hexane	57	4.160	4.160	0.000	93	568694	50.0	47.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	1365894	100.0	101.4	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	559681	50.0	50.6	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	100	1010438	250.0	251.5	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	346501	50.0	50.3	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	59	417371	50.0	49.3	
48 Chlorobromomethane	128	5.006	5.006	0.000	97	166102	50.0	50.5	
49 Tetrahydrofuran	42	5.036	5.036	0.000	92	264188	100.0	97.3	
50 Chloroform	83	5.043	5.043	0.000	94	514718	50.0	50.5	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	412830	50.0	50.2	
52 Cyclohexane	56	5.243	5.243	0.000	91	552117	50.0	49.6	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	96	443231	50.0	50.8	
55 Carbon tetrachloride	117	5.341	5.341	0.000	95	370099	50.0	50.2	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	549788	1250.0	1304.0	
57 Benzene	78	5.517	5.517	0.000	96	1291501	50.0	50.7	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	420343	50.0	50.2	
59 n-Heptane	43	5.620	5.620	0.000	94	594798	50.0	50.0	
62 Trichloroethene	95	6.040	6.040	0.000	97	321945	50.0	50.8	
64 Methylcyclohexane	83	6.198	6.198	0.000	90	577488	50.0	50.4	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	98	344858	50.0	51.4	
66 1,4-Dioxane	88	6.357	6.357	0.000	95	74979	1000.0	1040.7	
67 Dibromomethane	93	6.387	6.387	0.000	94	194688	50.0	50.7	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	409488	50.0	51.8	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	250777	50.0	52.6	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	552594	50.0	51.7	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	96	1872880	250.0	250.2	
74 Toluene	92	7.190	7.190	0.000	99	823455	50.0	50.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	96	522232	50.0	51.4	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	475944	50.0	50.8	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	248031	50.0	50.5	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	366384	50.0	50.5	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	96	540740	50.0	50.7	
80 2-Hexanone	43	7.774	7.774	0.000	95	1506182	250.0	253.0	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	328641	50.0	52.8	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	313415	50.0	51.4	
87 Chlorobenzene	112	8.608	8.608	0.000	95	936705	50.0	50.7	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1513322	50.0	50.9	
89 1,1,1,2-Tetrachloroethane	131	8.681	8.681	0.000	95	305822	50.0	51.1	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	617840	50.0	50.6	
91 o-Xylene	106	9.222	9.222	0.000	97	576413	50.0	50.3	
92 Styrene	104	9.240	9.240	0.000	95	1056122	50.0	51.3	
95 Bromoform	173	9.496	9.496	0.000	98	231828	50.0	53.7	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	1428678	50.0	49.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	96	387774	50.0	49.6	
101 Bromobenzene	156	9.946	9.946	0.000	95	413403	50.0	49.7	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	73	140236	50.0	50.4	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	82	124259	50.0	49.4	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1749157	50.0	50.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	367013	50.0	49.7	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	1218417	50.0	49.7	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	402384	50.0	50.5	
106 tert-Butylbenzene	134	10.463	10.463	0.000	93	288805	50.0	49.0	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	1255418	50.0	50.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	1549374	50.0	49.2	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	97	1369409	50.0	49.9	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	761102	50.0	50.1	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	780195	50.0	50.1	
115 n-Butylbenzene	91	11.150	11.150	0.000	97	1208037	50.0	50.0	
116 1,2-Dichlorobenzene	146	11.230	11.230	0.000	98	703020	50.0	50.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	88	74229	50.0	47.9	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	463811	50.0	48.7	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	259458	50.0	49.1	
121 Naphthalene	128	12.811	12.811	0.000	97	1212614	50.0	49.3	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	431254	50.0	48.6	

Reagents:

8260 CORP mix_00144	Amount Added: 25.00	Units: uL	
GAS CORP mix_00321	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

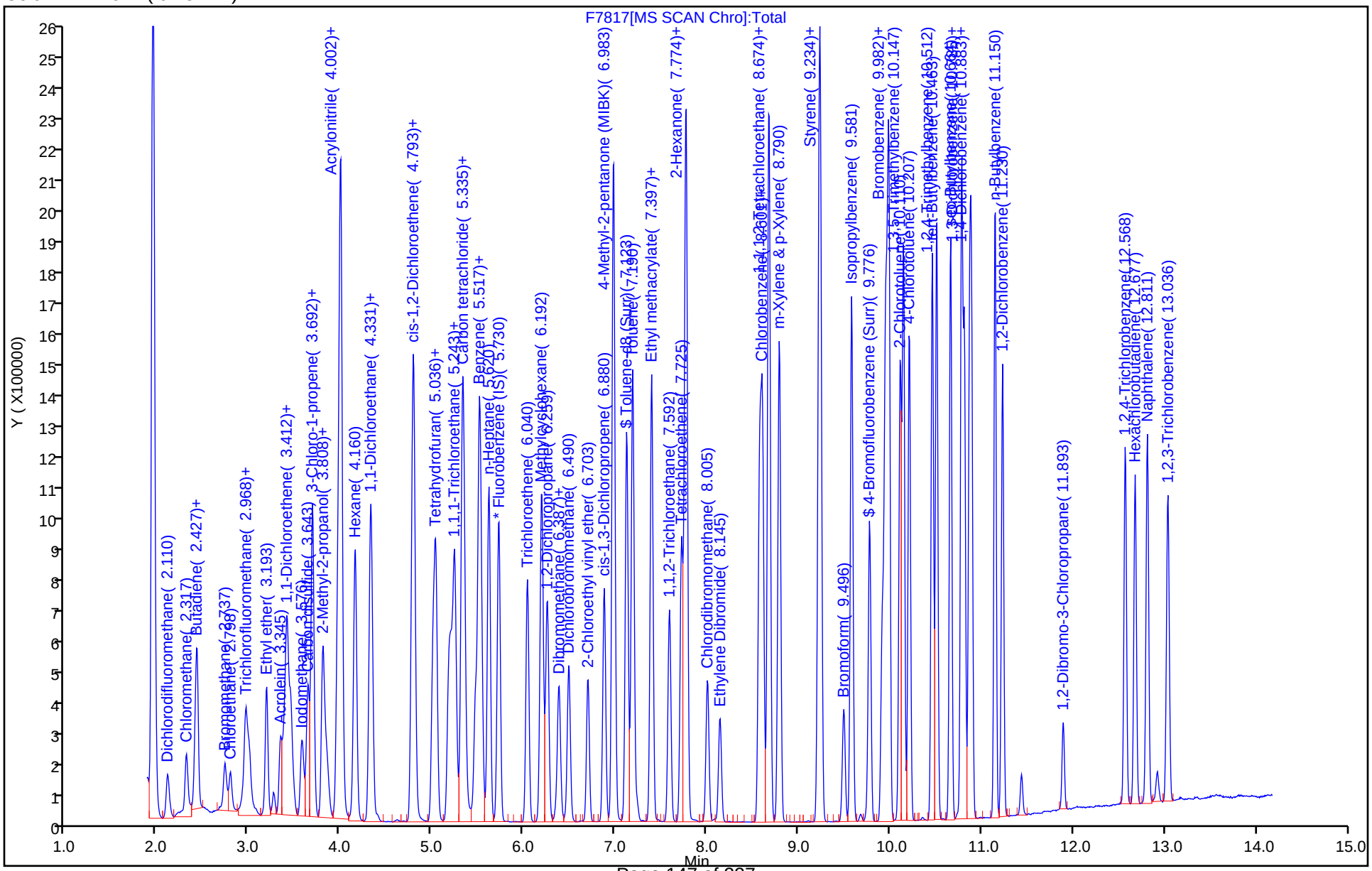
Report Date: 14-Jan-2019 10:31:20 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7817.D

Injection Date:	11-Jan-2019 13:01:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	ICIS 5			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7818.D
Lims ID: IC 6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jan-2019 13:27:30 ALS Bottle#: 7 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 6
Misc. Info.: 480-0077924-011
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:26 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:19:25

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	218726	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	436256	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.871	10.871	0.000	95	428250	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	94	253552	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	164458	50.0	50.5	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1026794	50.0	49.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	92	347746	50.0	50.2	
10 Dichlorodifluoromethane	85	2.116	2.110	0.006	99	506752	100.0	97.5	
12 Chloromethane	50	2.323	2.317	0.006	99	548209	100.0	94.6	
13 Vinyl chloride	62	2.420	2.414	0.006	98	499413	100.0	94.9	
151 Butadiene	54	2.439	2.433	0.006	90	487158	100.0	93.2	
14 Bromomethane	94	2.743	2.737	0.006	90	308009	100.0	100.5	
15 Chloroethane	64	2.798	2.798	0.000	99	276074	100.0	94.3	
16 Dichlorofluoromethane	67	2.962	2.962	0.000	97	644068	100.0	95.9	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	682933	100.0	96.2	
18 Ethyl ether	59	3.193	3.193	0.000	92	583977	100.0	99.3	
20 Acrolein	56	3.345	3.339	0.006	100	568654	500.0	515.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.400	3.388	0.012	92	469094	100.0	99.5	
22 1,1-Dichloroethene	96	3.424	3.418	0.006	97	485306	100.0	96.7	
23 Acetone	43	3.461	3.455	0.006	100	1209647	500.0	505.1	
25 Iodomethane	142	3.582	3.582	0.000	98	849657	100.0	99.8	
26 Carbon disulfide	76	3.643	3.643	0.000	99	1662855	100.0	98.1	
27 Methyl acetate	43	3.692	3.686	0.006	98	1317143	200.0	199.6	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	94	1034948	100.0	97.0	
30 Methylene Chloride	84	3.808	3.808	0.000	95	601375	100.0	90.1	
31 2-Methyl-2-propanol	59	3.850	3.844	0.006	100	901411	1000.0	1040.4	
32 Methyl tert-butyl ether	73	3.978	3.972	0.006	96	1874061	100.0	101.1	
33 Acrylonitrile	53	4.002	4.002	0.000	99	2750873	1000.0	1007.3	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	585542	100.0	99.2	
35 Hexane	57	4.160	4.160	0.000	92	1066250	100.0	91.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	2645052	200.0	200.0	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	1070121	100.0	98.5	
43 2-Butanone (MEK)	43	4.787	4.781	0.006	100	2019424	500.0	511.6	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	669229	100.0	98.8	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	89	801562	100.0	96.4	
48 Chlorobromomethane	128	5.012	5.006	0.006	96	327928	100.0	101.5	
49 Tetrahydrofuran	42	5.036	5.036	0.000	91	530080	200.0	198.6	
50 Chloroform	83	5.042	5.043	-0.001	94	991751	100.0	99.0	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	795445	100.0	98.5	
52 Cyclohexane	56	5.249	5.243	0.006	91	1062399	100.0	97.1	
54 1,1-Dichloropropene	75	5.328	5.328	0.000	99	845465	100.0	98.6	
55 Carbon tetrachloride	117	5.341	5.341	0.000	96	731452	100.0	101.0	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	1138742	2500.0	2749.1	
57 Benzene	78	5.517	5.517	0.000	97	2444218	100.0	97.7	
58 1,2-Dichloroethane	62	5.541	5.535	0.006	97	803541	100.0	97.8	
59 n-Heptane	43	5.620	5.620	0.000	93	1137249	100.0	97.3	
62 Trichloroethene	95	6.040	6.040	0.000	97	612811	100.0	98.4	
64 Methylcyclohexane	83	6.198	6.198	0.000	91	1108516	100.0	98.5	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	98	662052	100.0	100.5	
66 1,4-Dioxane	88	6.363	6.357	0.006	95	150244	2000.0	2156.7	
67 Dibromomethane	93	6.387	6.387	0.000	94	381419	100.0	101.1	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	793847	100.0	102.2	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	488664	100.0	104.3	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	1058495	100.0	100.7	
73 4-Methyl-2-pentanone (MIBK	43	6.983	6.977	0.006	95	3628242	500.0	501.3	
74 Toluene	92	7.190	7.190	0.000	99	1544218	100.0	97.0	
77 trans-1,3-Dichloropropene	75	7.397	7.397	0.000	96	999859	100.0	101.8	
75 Ethyl methacrylate	69	7.403	7.403	0.000	91	927874	100.0	102.4	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	478262	100.0	100.7	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	688441	100.0	98.2	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	95	1033474	100.0	100.3	
80 2-Hexanone	43	7.774	7.774	0.000	94	2938438	500.0	510.5	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	643734	100.0	106.9	
84 Ethylene Dibromide	107	8.145	8.145	0.000	98	607455	100.0	103.0	
87 Chlorobenzene	112	8.607	8.608	-0.001	95	1756025	100.0	98.3	
88 Ethylbenzene	91	8.674	8.674	0.000	98	2776980	100.0	96.5	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	96	598015	100.0	103.3	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	1165600	100.0	98.8	
91 o-Xylene	106	9.228	9.222	0.006	96	1093442	100.0	98.6	
92 Styrene	104	9.240	9.240	0.000	95	1976086	100.0	99.2	
95 Bromoform	173	9.496	9.496	0.000	98	469160	100.0	112.4	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	2666193	100.0	94.9	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	760916	100.0	101.0	
101 Bromobenzene	156	9.946	9.946	0.000	94	791690	100.0	98.7	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	79	278384	100.0	103.8	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	88	246945	100.0	101.9	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	3193840	100.0	95.1	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	700639	100.0	98.5	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	95	2282732	100.0	96.5	
105 4-Chlorotoluene	126	10.214	10.214	0.000	97	760717	100.0	98.9	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	549819	100.0	96.7	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	94	2356324	100.0	97.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	2873863	100.0	94.6	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	96	2559976	100.0	96.7	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	1442892	100.0	98.5	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	97	1477718	100.0	98.5	
115 n-Butylbenzene	91	11.144	11.150	-0.006	96	2246517	100.0	96.4	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	98	1345862	100.0	99.3	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	89	154342	100.0	103.2	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	911926	100.0	99.3	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	97	494571	100.0	97.1	
121 Naphthalene	128	12.811	12.811	0.000	97	2428416	100.0	102.5	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	864578	100.0	101.0	
S 125 1,2-Dichloroethene, Total	1				0			198.0	
S 126 1,3-Dichloropropene, Total	1				0			202.5	
S 123 Total BTEX	1				0			488.6	
S 124 Xylenes, Total	1				0			197.4	

Reagents:

8260 CORP mix_00144	Amount Added: 50.00	Units: uL	
GAS CORP mix_00321	Amount Added: 50.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

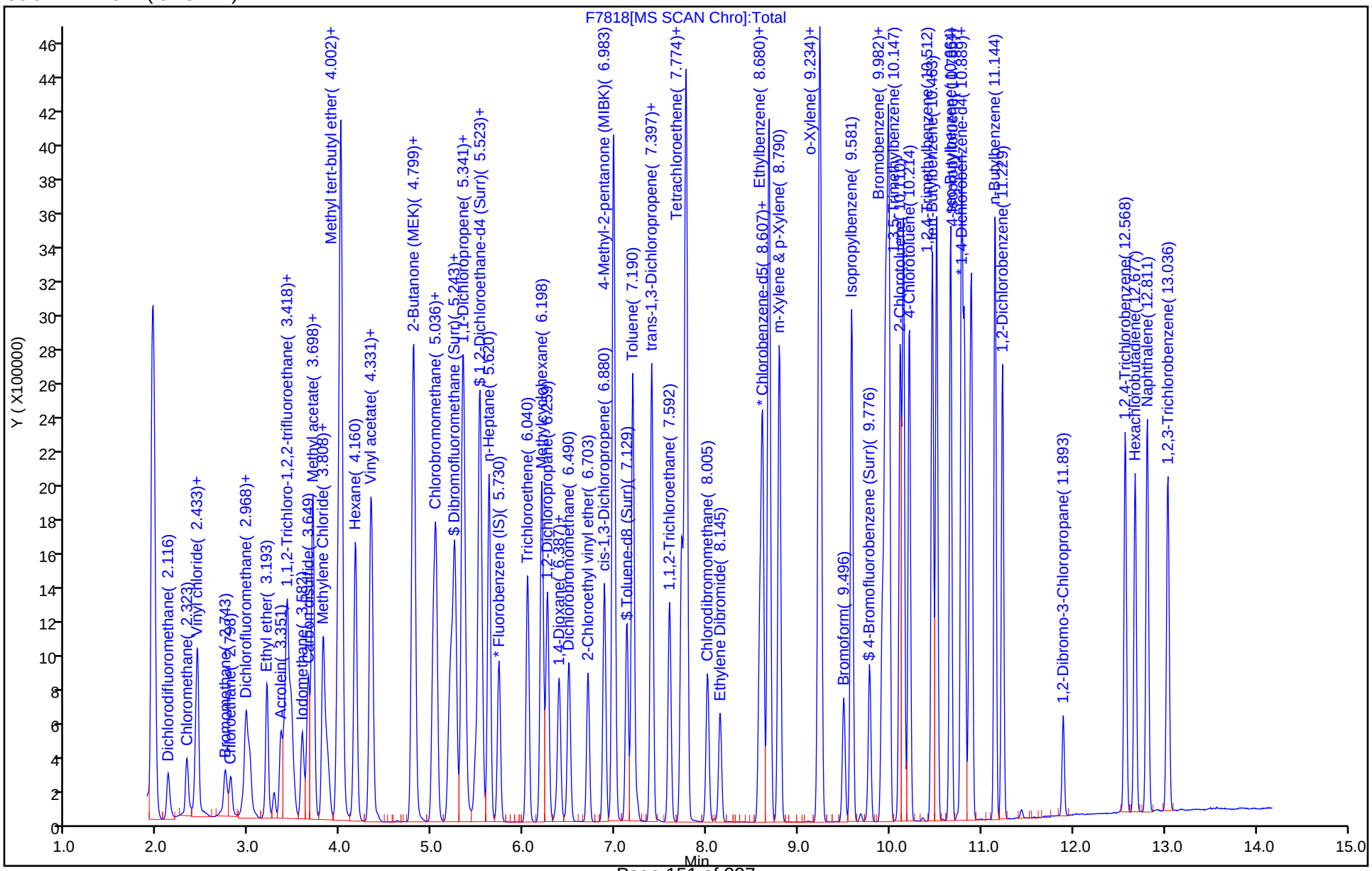
Report Date: 14-Jan-2019 10:31:30 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7818.D

Injection Date:	11-Jan-2019 13:27:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 6			Worklist Smp#:	11
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D
Lims ID: IC 7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jan-2019 13:52:30 ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: IC 7
Misc. Info.: 480-0077924-012
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:31:35 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 11-Jan-2019 15:24:01

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	226529	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.577	0.000	84	444911	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.870	10.871	-0.001	95	448435	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	94	262551	50.0	50.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	98	168342	50.0	49.9	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	1052465	50.0	50.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	92	360002	50.0	51.0	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	1005047	200.0	186.8	
12 Chloromethane	50	2.311	2.317	-0.006	99	1078360	200.0	179.6	
13 Vinyl chloride	62	2.414	2.414	0.000	98	985870	200.0	180.8	M
151 Butadiene	54	2.433	2.433	0.000	89	947739	200.0	175.0	
14 Bromomethane	94	2.731	2.737	-0.006	90	605860	200.0	190.9	
15 Chloroethane	64	2.791	2.798	-0.007	99	544627	200.0	179.6	
16 Dichlorofluoromethane	67	2.956	2.962	-0.006	97	1289917	200.0	185.5	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	98	1335814	200.0	181.7	
18 Ethyl ether	59	3.187	3.193	-0.006	92	1139686	200.0	187.0	
20 Acrolein	56	3.339	3.339	0.000	100	1091077	1000.0	954.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.388	0.006	92	920954	200.0	188.5	
22 1,1-Dichloroethene	96	3.412	3.418	-0.006	98	963990	200.0	185.4	
23 Acetone	43	3.455	3.455	0.000	100	2344436	1000.0	945.3	
25 Iodomethane	142	3.576	3.582	-0.006	98	1680217	200.0	190.5	
26 Carbon disulfide	76	3.637	3.643	-0.006	99	3236892	200.0	184.5	
27 Methyl acetate	43	3.686	3.686	0.000	98	2531214	400.0	370.3	
28 3-Chloro-1-propene	41	3.692	3.698	-0.006	94	2000403	200.0	181.1	
30 Methylene Chloride	84	3.801	3.808	-0.007	95	1176733	200.0	170.2	
31 2-Methyl-2-propanol	59	3.844	3.844	0.000	100	1804929	2000.0	2011.4	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	3614315	200.0	188.3	
33 Acrylonitrile	53	3.996	4.002	-0.006	99	5069207	2000.0	1792.3	
34 trans-1,2-Dichloroethene	96	4.002	4.008	-0.006	98	1165912	200.0	190.7	
35 Hexane	57	4.154	4.160	-0.006	92	2089740	200.0	172.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	4845563	400.0	353.7	
39 1,1-Dichloroethane	63	4.337	4.343	-0.006	96	2090476	200.0	185.8	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	99	3744517	1000.0	915.9	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	1321377	200.0	188.4	
44 2,2-Dichloropropane	77	4.793	4.799	-0.006	58	1568850	200.0	182.3	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	653541	200.0	195.4	
49 Tetrahydrofuran	42	5.030	5.036	-0.006	90	1023531	400.0	370.3	
50 Chloroform	83	5.036	5.043	-0.007	93	1946157	200.0	187.5	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	1576736	200.0	188.6	
52 Cyclohexane	56	5.243	5.243	0.000	90	2066261	200.0	182.3	
54 1,1-Dichloropropene	75	5.322	5.328	-0.006	96	1665396	200.0	187.5	
55 Carbon tetrachloride	117	5.341	5.341	-0.001	97	1464159	200.0	195.2	
53 Isobutyl alcohol	43	5.347	5.347	0.000	95	2052188	5000.0	4783.6	
57 Benzene	78	5.511	5.517	-0.006	98	4624286	200.0	178.4	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	1583056	200.0	186.0	
59 n-Heptane	43	5.620	5.620	0.000	92	2205578	200.0	182.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	1213098	200.0	188.1	
64 Methylcyclohexane	83	6.192	6.198	-0.006	91	2175471	200.0	186.6	
65 1,2-Dichloropropane	63	6.259	6.259	0.000	97	1307363	200.0	191.6	
66 1,4-Dioxane	88	6.356	6.357	-0.001	94	300176	4000.0	4225.0	
67 Dibromomethane	93	6.387	6.387	0.000	94	763630	200.0	195.4	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	1576440	200.0	196.0	
69 2-Chloroethyl vinyl ether	63	6.703	6.697	0.006	92	964347	200.0	198.8	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	96	2086101	200.0	191.6	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	92	6369756	1000.0	862.9	
74 Toluene	92	7.190	7.190	0.000	98	3006350	200.0	185.2	
77 trans-1,3-Dichloropropene	75	7.391	7.397	-0.006	96	1958418	200.0	195.5	
75 Ethyl methacrylate	69	7.403	7.403	0.000	90	1826053	200.0	197.7	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	946636	200.0	195.4	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	1360757	200.0	190.3	
82 1,3-Dichloropropane	76	7.762	7.762	0.000	97	2020751	200.0	192.2	
80 2-Hexanone	43	7.774	7.774	0.000	90	5221587	1000.0	889.6	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	1305566	200.0	212.6	
84 Ethylene Dibromide	107	8.145	8.145	0.000	99	1204383	200.0	200.2	
87 Chlorobenzene	112	8.607	8.608	-0.001	94	3398623	200.0	186.6	
88 Ethylbenzene	91	8.674	8.674	0.000	97	5212700	200.0	177.7	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.681	-0.001	95	1195702	200.0	202.6	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	97	2300620	200.0	191.1	
91 o-Xylene	106	9.222	9.222	0.000	95	2156835	200.0	190.7	
92 Styrene	104	9.240	9.240	0.000	94	3822115	200.0	188.1	
95 Bromoform	173	9.496	9.496	0.000	98	961529	200.0	225.8	
94 Isopropylbenzene	105	9.581	9.581	0.000	96	5002221	200.0	170.0	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.915	0.000	94	1502928	200.0	190.6	
101 Bromobenzene	156	9.946	9.946	0.000	94	1563567	200.0	186.2	
98 trans-1,4-Dichloro-2-buten	53	9.964	9.964	0.000	73	550049	200.0	195.8	
100 1,2,3-Trichloropropane	110	9.976	9.970	0.006	83	493421	200.0	194.5	
99 N-Propylbenzene	91	9.988	9.988	0.000	97	5820069	200.0	165.5	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	1405132	200.0	188.6	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	96	4308927	200.0	174.0	
105 4-Chlorotoluene	126	10.213	10.214	-0.001	96	1517258	200.0	188.5	
106 tert-Butylbenzene	134	10.463	10.463	0.000	92	1087670	200.0	182.6	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	4433589	200.0	174.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	95	5240484	200.0	164.8	
110 4-Isopropyltoluene	119	10.785	10.785	0.000	95	4702402	200.0	169.6	
111 1,3-Dichlorobenzene	146	10.816	10.810	0.006	97	2814763	200.0	183.6	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	94	2878747	200.0	183.3	
115 n-Butylbenzene	91	11.150	11.150	0.000	95	4184742	200.0	171.4	
116 1,2-Dichlorobenzene	146	11.229	11.230	-0.001	97	2639790	200.0	186.0	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	90	306137	200.0	195.6	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	95	1810379	200.0	188.3	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	98	974637	200.0	182.7	
121 Naphthalene	128	12.811	12.811	0.000	98	4593618	200.0	185.1	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	1699405	200.0	189.6	
S 125 1,2-Dichloroethene, Total	1				0			379.1	
S 126 1,3-Dichloropropene, Total	1				0			387.1	
S 123 Total BTEX	1				0			923.1	
S 124 Xylenes, Total	1				0			381.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00144	Amount Added: 100.00	Units: uL	
GAS CORP mix_00321	Amount Added: 100.00	Units: uL	
F 8260 IS/SS_00078	Amount Added: 1.00	Units: uL	Run Reagent

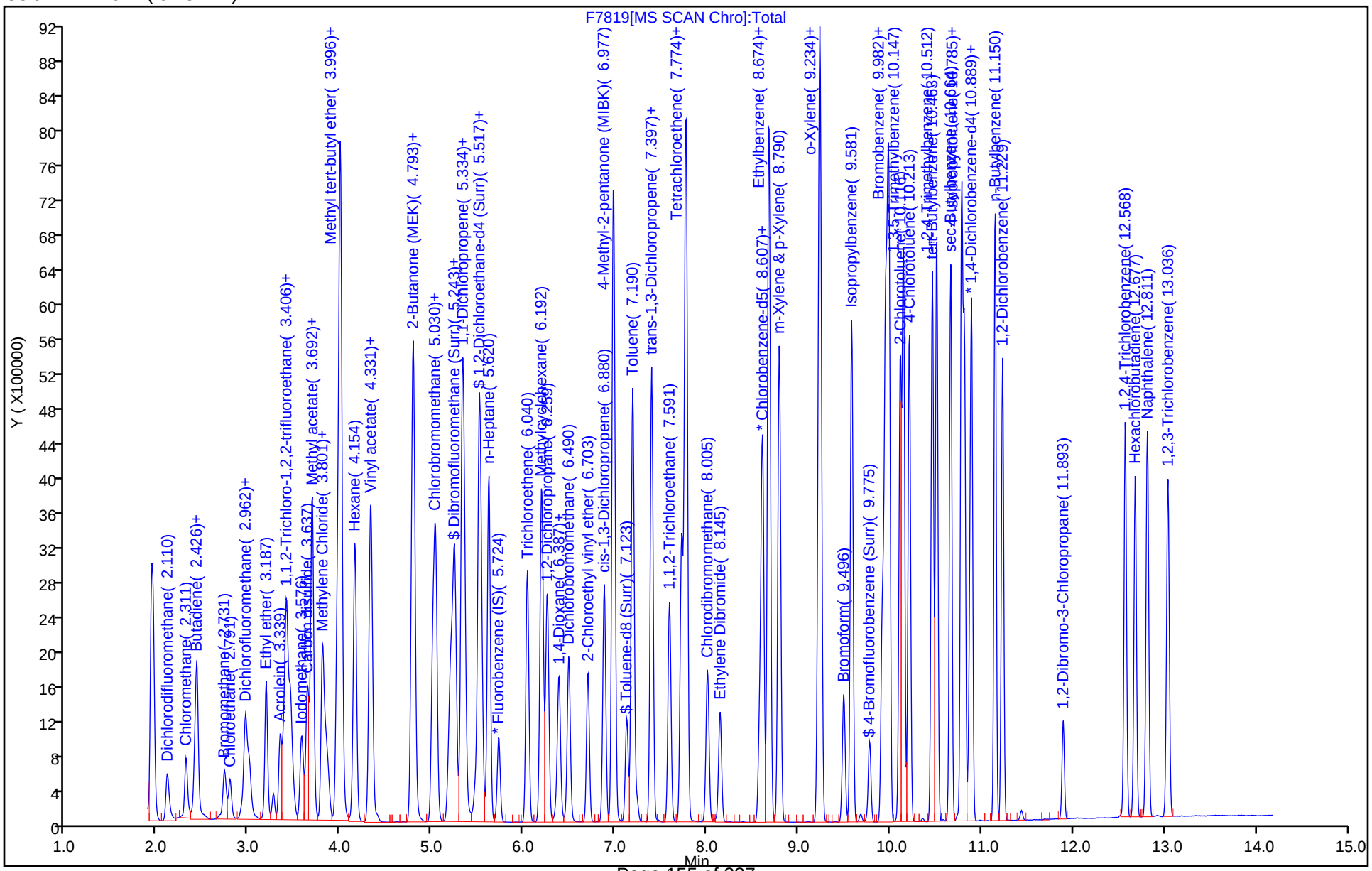
Report Date: 14-Jan-2019 10:31:40 Chrom Revision: 2.3 13-Dec-2018 17:23:12

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D

Injection Date:	11-Jan-2019 13:52:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	IC 7			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Buffalo

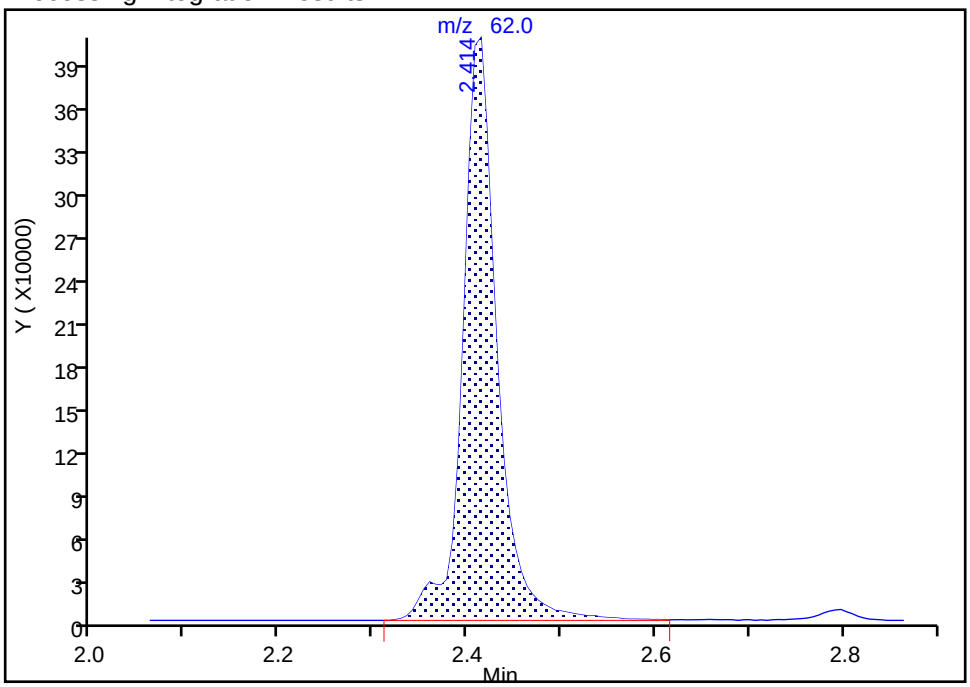
Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7819.D
Injection Date: 11-Jan-2019 13:52:30 Instrument ID: HP5973F
Lims ID: IC 7
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector MS SCAN

13 Vinyl chloride, CAS: 75-01-4

Signal: 1

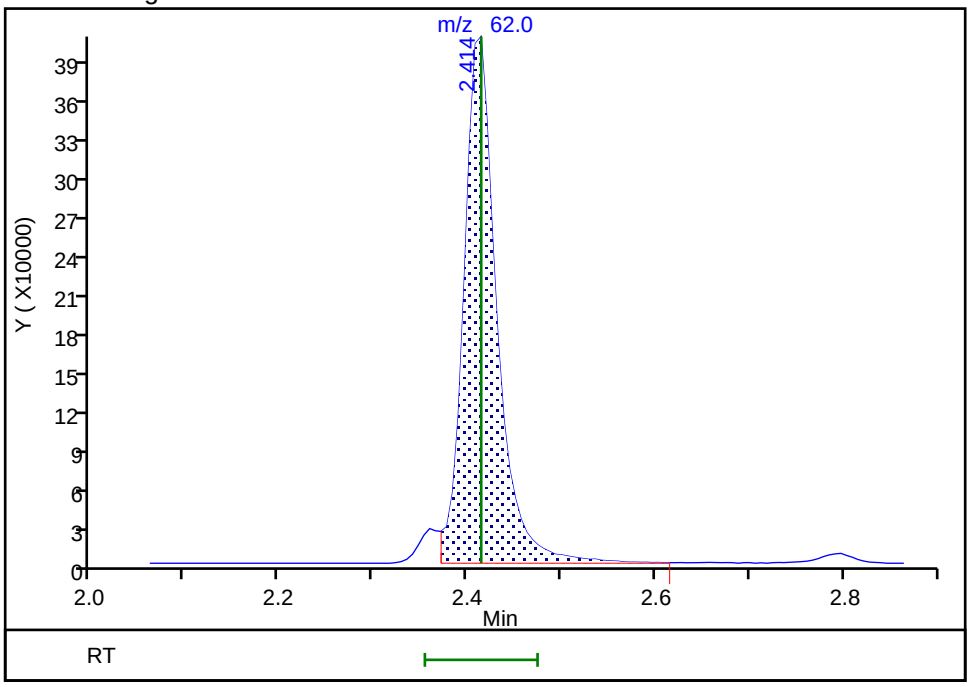
Processing Integration Results

RT: 2.41
Area: 1022391
Amount: 186.6516
Amount Units: ug/kg



Manual Integration Results

RT: 2.41
Area: 985870
Amount: 180.8454
Amount Units: ug/kg



Reviewer: cwiklinc, 11-Jan-2019 15:20:25
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463140/3 Calibration Date: 03/15/2019 09:00

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9071.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.188	1.265	0.1000	53.3	50.0	6.5	50.0
Chloromethane	Ave	1.325	1.466	0.1000	55.3	50.0	10.7	20.0
Vinyl chloride	Ave	1.203	1.435	0.1000	59.6	50.0	19.2	20.0
Butadiene	Ave	1.195	1.439		60.2	50.0	20.4*	20.0
Bromomethane	Ave	0.7005	0.7196	0.1000	51.4	50.0	2.7	50.0
Chloroethane	Ave	0.6694	0.6955	0.1000	52.0	50.0	3.9	50.0
Dichlorofluoromethane	Ave	1.535	1.876		61.1	50.0	22.2*	20.0
Trichlorofluoromethane	Ave	1.623	1.921	0.1000	59.2	50.0	18.4	20.0
Ethyl ether	Ave	1.345	1.491		55.4	50.0	10.8	20.0
Acrolein	Ave	0.2523	0.2158		214	250	-14.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.078	1.255	0.1000	58.2	50.0	16.4	20.0
1,1-Dichloroethene	Ave	1.148	1.295	0.1000	56.4	50.0	12.9	20.0
Acetone	Ave	0.5474	0.6927	0.1000	316	250	26.5	50.0
Iodomethane	Ave	1.947	2.232		57.3	50.0	14.7	20.0
Carbon disulfide	Ave	3.873	4.247	0.1000	54.8	50.0	9.7	20.0
Methyl acetate	Ave	1.509	1.530	0.1000	101	100	1.4	50.0
Allyl chloride	Ave	2.439	2.478		50.8	50.0	1.6	20.0
Methylene Chloride	Ave	1.526	1.574	0.1000	51.6	50.0	3.1	20.0
2-Methyl-2-propanol	Ave	0.1981	0.2323		586	500	17.3	50.0
Methyl tert-butyl ether	Ave	4.237	4.590	0.1000	54.2	50.0	8.3	20.0
Acrylonitrile	Ave	0.6243	0.7487		600	500	19.9	20.0
trans-1,2-Dichloroethene	Ave	1.350	1.546	0.1000	57.3	50.0	14.6	20.0
Hexane	Ave	2.677	2.643		49.4	50.0	-1.3	20.0
Vinyl acetate	Ave	3.024	3.884		128	100	28.4*	20.0
1,1-Dichloroethane	Ave	2.484	2.772	0.2000	55.8	50.0	11.6	20.0
2-Butanone (MEK)	Ave	0.9024	1.052	0.1000	292	250	16.6	20.0
2,2-Dichloropropane	Ave	1.900	2.054		54.1	50.0	8.1	20.0
cis-1,2-Dichloroethene	Ave	1.548	1.755	0.1000	56.7	50.0	13.4	20.0
Chlorobromomethane	Ave	0.7382	0.8457		57.3	50.0	14.6	20.0
Tetrahydrofuran	Ave	0.6101	0.6563		108	100	7.6	20.0
Chloroform	Ave	2.291	2.565	0.2000	56.0	50.0	12.0	20.0
1,1,1-Trichloroethane	Ave	1.845	2.058	0.1000	55.7	50.0	11.5	20.0
Cyclohexane	Ave	2.502	2.612	0.1000	52.2	50.0	4.4	20.0
1,1-Dichloropropene	Ave	1.960	2.175		55.5	50.0	11.0	20.0
Carbon tetrachloride	Ave	1.656	1.873	0.1000	56.6	50.0	13.1	20.0
Isobutyl alcohol	Ave	0.0947	0.1096		1450	1250	15.7	50.0
Benzene	Ave	5.721	6.311	0.5000	55.2	50.0	10.3	20.0
1,2-Dichloroethane	Ave	1.879	2.074	0.1000	55.2	50.0	10.4	20.0
n-Heptane	Ave	2.672	2.735		51.2	50.0	2.4	20.0
Trichloroethene	Ave	1.424	1.576	0.2000	55.4	50.0	10.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463140/3 Calibration Date: 03/15/2019 09:00

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9071.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.574	2.785	0.1000	54.1	50.0	8.2	20.0
1,2-Dichloropropane	Ave	1.506	1.648	0.1000	54.7	50.0	9.5	20.0
1,4-Dioxane	Ave	0.0080	0.0103		1290	1000	28.7	50.0
Dibromomethane	Ave	0.8624	0.9846	0.1000	57.1	50.0	14.2	20.0
Bromodichloromethane	Ave	1.775	1.941	0.2000	54.7	50.0	9.3	20.0
2-Chloroethyl vinyl ether	Ave	1.071	1.168		54.5	50.0	9.1	20.0
cis-1,3-Dichloropropene	Ave	2.403	2.560	0.2000	53.3	50.0	6.5	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8296	0.8700	0.1000	262	250	4.9	20.0
Toluene	Ave	1.824	1.913	0.4000	52.4	50.0	4.9	20.0
trans-1,3-Dichloropropene	Ave	1.126	1.159	0.1000	51.5	50.0	3.0	20.0
Ethyl methacrylate	Ave	1.038	0.9916		47.8	50.0	-4.5	20.0
1,1,2-Trichloroethane	Ave	0.5446	0.5755	0.1000	52.8	50.0	5.7	20.0
Tetrachloroethene	Ave	0.8036	0.9120	0.2000	56.7	50.0	13.5	20.0
1,3-Dichloropropane	Ave	1.181	1.253		53.0	50.0	6.1	20.0
2-Hexanone	Ave	0.6596	0.7034	0.1000	267	250	6.6	20.0
Dibromochloromethane	Ave	0.6902	0.7484	0.1000	54.2	50.0	8.4	20.0
1,2-Dibromoethane	Ave	0.6761	0.7242		53.6	50.0	7.1	20.0
Chlorobenzene	Ave	2.047	2.160	0.5000	52.8	50.0	5.5	20.0
Ethylbenzene	Ave	3.297	3.455	0.1000	52.4	50.0	4.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6632	0.7013		52.9	50.0	5.7	20.0
m,p-Xylene	Ave	1.353	1.401	0.1000	51.8	50.0	3.6	20.0
o-Xylene	Ave	1.271	1.302	0.3000	51.2	50.0	2.4	20.0
Styrene	Ave	2.283	2.259	0.3000	49.5	50.0	-1.1	20.0
Bromoform	Ave	0.4786	0.5464	0.1000	57.1	50.0	14.2	50.0
Isopropylbenzene	Ave	3.280	3.175	0.1000	48.4	50.0	-3.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8792	0.9005	0.3000	51.2	50.0	2.4	20.0
Bromobenzene	Ave	0.9362	0.9708		51.9	50.0	3.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3132	0.3004		48.0	50.0	-4.1	50.0
1,2,3-Trichloropropane	Ave	0.2829	0.3003		53.1	50.0	6.1	20.0
N-Propylbenzene	Ave	3.921	3.936		50.2	50.0	0.4	20.0
2-Chlorotoluene	Ave	0.8306	0.8296		49.9	50.0	-0.1	20.0
1,3,5-Trimethylbenzene	Ave	2.762	2.724		49.3	50.0	-1.4	20.0
4-Chlorotoluene	Ave	0.8976	0.9161		51.0	50.0	2.1	20.0
tert-Butylbenzene	Ave	0.6641	0.6327		47.6	50.0	-4.7	20.0
1,2,4-Trimethylbenzene	Ave	2.828	2.784		49.2	50.0	-1.5	20.0
sec-Butylbenzene	Ave	3.545	3.467		48.9	50.0	-2.2	20.0
4-Isopropyltoluene	Ave	3.091	3.051		49.4	50.0	-1.3	20.0
1,3-Dichlorobenzene	Ave	1.709	1.744	0.6000	51.0	50.0	2.0	20.0
1,4-Dichlorobenzene	Ave	1.751	1.781	0.5000	50.8	50.0	1.7	20.0
n-Butylbenzene	Ave	2.722	2.654		48.8	50.0	-2.5	20.0
1,2-Dichlorobenzene	Ave	1.583	1.587	0.4000	50.1	50.0	0.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463140/3 Calibration Date: 03/15/2019 09:00

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9071.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1745	0.1530	0.0500	43.8	50.0	-12.4	50.0
1,2,4-Trichlorobenzene	Ave	1.072	1.124	0.2000	52.4	50.0	4.9	20.0
Hexachlorobutadiene	Ave	0.5949	0.6722		56.5	50.0	13.0	20.0
Naphthalene	Ave	2.767	2.700		48.8	50.0	-2.4	20.0
1,2,3-Trichlorobenzene	Ave	0.999	1.070		53.6	50.0	7.1	20.0
Dibromofluoromethane (Surr)	Ave	1.157	1.250		54.0	50.0	8.0	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7445	0.7983		53.6	50.0	7.2	20.0
Toluene-d8 (Surr)	Ave	2.358	2.432		51.6	50.0	3.1	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7933	0.8701		54.8	50.0	9.7	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9071.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 15-Mar-2019 09:00:30 ALS Bottle#: 1 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0079401-003
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 12:18:17 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: cwiklinc Date: 15-Mar-2019 09:23:52

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	165540	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	84	348263	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	356476	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	95	206914	50.0	54.0	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	132149	50.0	53.6	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	847045	50.0	51.6	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.776	0.000	96	303029	50.0	54.8	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	209409	50.0	53.3	
12 Chloromethane	50	2.311	2.311	0.000	99	242734	50.0	55.3	
13 Vinyl chloride	62	2.408	2.408	0.000	98	237491	50.0	59.6	
151 Butadiene	54	2.433	2.433	0.000	88	238241	50.0	60.2	
14 Bromomethane	94	2.725	2.725	0.000	91	119115	50.0	51.4	
15 Chloroethane	64	2.792	2.792	0.000	99	115139	50.0	52.0	
16 Dichlorofluoromethane	67	2.950	2.950	0.000	97	310581	50.0	61.1	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	98	318015	50.0	59.2	
18 Ethyl ether	59	3.187	3.187	0.000	92	246755	50.0	55.4	
20 Acrolein	56	3.339	3.339	0.000	99	178650	250.0	213.9	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	92	207761	50.0	58.2	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	214429	50.0	56.4	
23 Acetone	43	3.449	3.449	0.000	100	573326	250.0	316.3	
25 Iodomethane	142	3.576	3.576	0.000	98	369483	50.0	57.3	
26 Carbon disulfide	76	3.637	3.637	0.000	99	703018	50.0	54.8	
27 Methyl acetate	43	3.680	3.680	0.000	98	506573	100.0	101.4	
28 3-Chloro-1-propene	41	3.692	3.692	0.000	94	410226	50.0	50.8	
30 Methylene Chloride	84	3.801	3.801	0.000	94	260539	50.0	51.6	
31 2-Methyl-2-propanol	59	3.838	3.838	0.000	99	384508	500.0	586.4	
32 Methyl tert-butyl ether	73	3.966	3.966	0.000	96	759784	50.0	54.2	
33 Acrylonitrile	53	3.996	3.996	0.000	99	1239407	500.0	599.7	
34 trans-1,2-Dichloroethene	96	4.002	4.002	0.000	99	255964	50.0	57.3	
35 Hexane	57	4.160	4.160	0.000	91	437486	50.0	49.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.319	4.319	0.000	97	1285755	100.0	128.4	
39 1,1-Dichloroethane	63	4.337	4.337	0.000	96	458901	50.0	55.8	
43 2-Butanone (MEK)	43	4.775	4.775	0.000	100	871030	250.0	291.5	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	61	340045	50.0	54.1	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	290504	50.0	56.7	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	139989	50.0	57.3	
49 Tetrahydrofuran	42	5.024	5.024	0.000	90	217289	100.0	107.6	
50 Chloroform	83	5.036	5.036	0.000	93	424640	50.0	56.0	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	340612	50.0	55.7	
52 Cyclohexane	56	5.243	5.243	0.000	89	432331	50.0	52.2	
54 1,1-Dichloropropene	75	5.322	5.322	0.000	95	360117	50.0	55.5	
55 Carbon tetrachloride	117	5.341	5.341	0.000	97	310016	50.0	56.6	
53 Isobutyl alcohol	43	5.341	5.341	0.000	96	453569	1250.0	1446.8	
57 Benzene	78	5.511	5.511	0.000	96	1044721	50.0	55.2	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	343288	50.0	55.2	
59 n-Heptane	43	5.620	5.620	0.000	92	452778	50.0	51.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	260920	50.0	55.4	
64 Methylcyclohexane	83	6.198	6.198	0.000	88	460984	50.0	54.1	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	97	272819	50.0	54.7	
66 1,4-Dioxane	88	6.350	6.350	0.000	94	71584	1000.0	1287.2	
67 Dibromomethane	93	6.381	6.381	0.000	92	162982	50.0	57.1	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	321274	50.0	54.7	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	193372	50.0	54.5	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	97	423761	50.0	53.3	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	1514849	250.0	262.2	
74 Toluene	92	7.190	7.190	0.000	99	666354	50.0	52.4	
77 trans-1,3-Dichloropropene	75	7.391	7.391	0.000	97	403640	50.0	51.5	
75 Ethyl methacrylate	69	7.397	7.397	0.000	90	345343	50.0	47.8	
79 1,1,2-Trichloroethane	83	7.592	7.592	0.000	91	200411	50.0	52.8	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	317608	50.0	56.7	
82 1,3-Dichloropropane	76	7.756	7.756	0.000	95	436510	50.0	53.0	
80 2-Hexanone	43	7.768	7.768	0.000	95	1224886	250.0	266.6	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	260655	50.0	54.2	
84 Ethylene Dibromide	107	8.139	8.139	0.000	99	252224	50.0	53.6	
87 Chlorobenzene	112	8.607	8.607	0.000	96	752376	50.0	52.8	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1203225	50.0	52.4	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	95	244246	50.0	52.9	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	487895	50.0	51.8	
91 o-Xylene	106	9.222	9.222	0.000	95	453434	50.0	51.2	
92 Styrene	104	9.240	9.240	0.000	95	786694	50.0	49.5	
95 Bromoform	173	9.496	9.496	0.000	99	190284	50.0	57.1	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1131931	50.0	48.4	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	95	321013	50.0	51.2	
101 Bromobenzene	156	9.946	9.946	0.000	91	346065	50.0	51.9	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	82	107099	50.0	48.0	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	81	107046	50.0	53.1	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1403152	50.0	50.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	295724	50.0	49.9	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	971159	50.0	49.3	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	326554	50.0	51.0	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	225524	50.0	47.6	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	992510	50.0	49.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	1236063	50.0	48.9	
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1087727	50.0	49.4	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	621776	50.0	51.0	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	634801	50.0	50.8	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	946100	50.0	48.8	
116 1,2-Dichlorobenzene	146	11.229	11.229	0.000	99	565789	50.0	50.1	
117 1,2-Dibromo-3-Chloropropan	75	11.893	11.893	0.000	89	54532	50.0	43.8	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	400724	50.0	52.4	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	239624	50.0	56.5	
121 Naphthalene	128	12.811	12.811	0.000	97	962425	50.0	48.8	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	95	381579	50.0	53.6	

Reagents:

8260 CORP mix_00148	Amount Added: 25.00	Units: uL	
GAS CORP mix_00331	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00083	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 15-Mar-2019 12:18:21 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9071.D

Injection Date: 15-Mar-2019 09:00:30 Instrument ID: HP5973F Operator ID: CDC

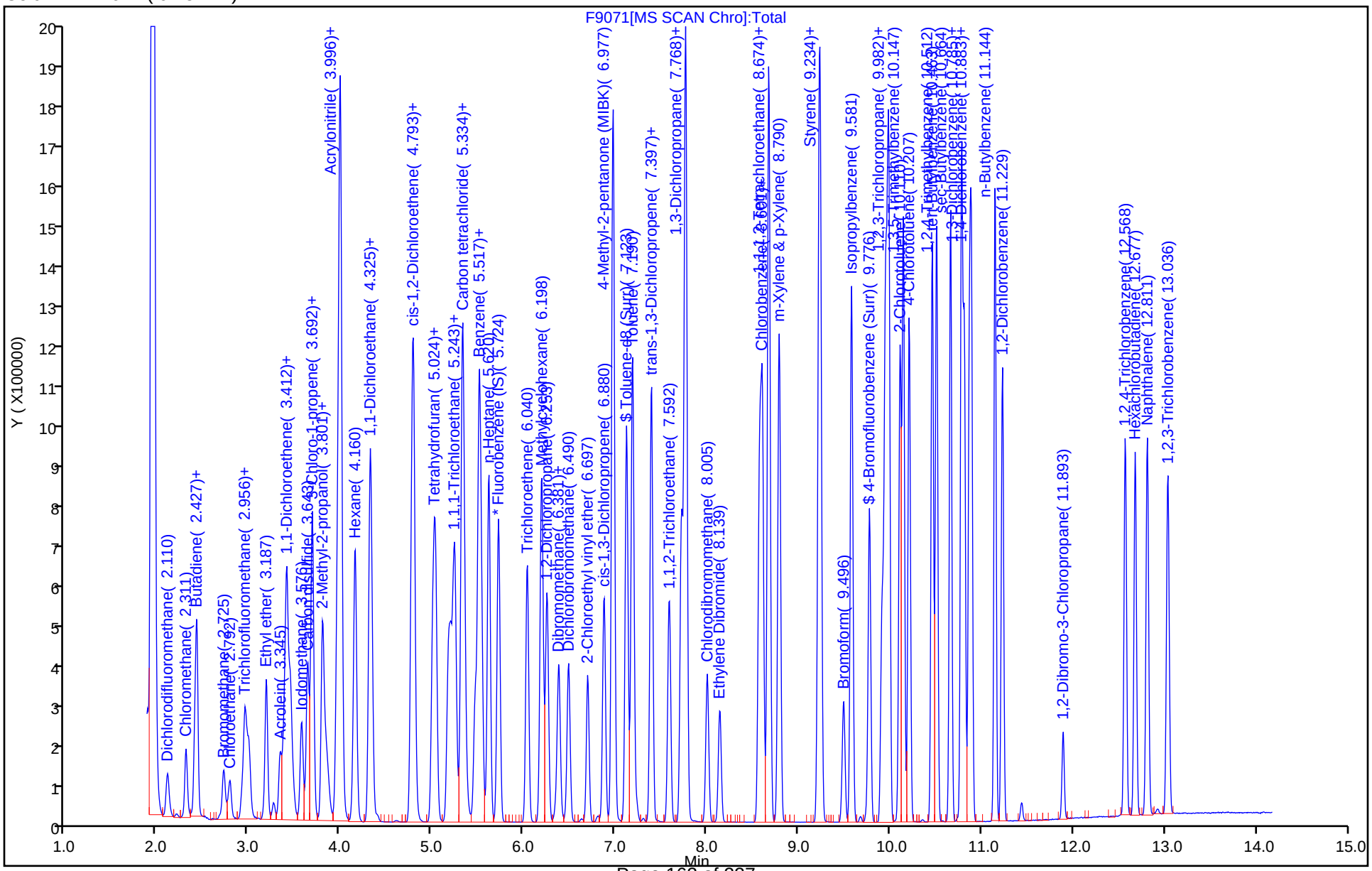
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463385/4 Calibration Date: 03/18/2019 09:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9100.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.188	1.119	0.1000	47.1	50.0	-5.8	50.0
Chloromethane	Ave	1.325	1.336	0.1000	50.4	50.0	0.8	20.0
Vinyl chloride	Ave	1.203	1.327	0.1000	55.2	50.0	10.3	20.0
Butadiene	Ave	1.195	1.264		52.9	50.0	5.8	20.0
Bromomethane	Ave	0.7005	0.7412	0.1000	52.9	50.0	5.8	50.0
Chloroethane	Ave	0.6694	0.6345	0.1000	47.4	50.0	-5.2	50.0
Dichlorofluoromethane	Ave	1.535	1.665		54.2	50.0	8.5	20.0
Trichlorofluoromethane	Ave	1.623	1.874	0.1000	57.7	50.0	15.5	20.0
Ethyl ether	Ave	1.345	1.464		54.4	50.0	8.8	20.0
Acrolein	Ave	0.2523	0.2206		219	250	-12.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.078	1.186	0.1000	55.0	50.0	10.0	20.0
1,1-Dichloroethene	Ave	1.148	1.207	0.1000	52.6	50.0	5.1	20.0
Acetone	Ave	0.5474	0.6834	0.1000	312	250	24.8	50.0
Iodomethane	Ave	1.947	1.988		51.1	50.0	2.1	20.0
Carbon disulfide	Ave	3.873	3.851	0.1000	49.7	50.0	-0.6	20.0
Methyl acetate	Ave	1.509	1.543	0.1000	102	100	2.3	50.0
Allyl chloride	Ave	2.439	2.383		48.9	50.0	-2.3	20.0
Methylene Chloride	Ave	1.526	1.466	0.1000	48.0	50.0	-3.9	20.0
2-Methyl-2-propanol	Ave	0.1981	0.2119		535	500	7.0	50.0
Methyl tert-butyl ether	Ave	4.237	4.239	0.1000	50.0	50.0	0.0	20.0
Acrylonitrile	Ave	0.6243	0.7376		591	500	18.2	20.0
trans-1,2-Dichloroethene	Ave	1.350	1.497	0.1000	55.5	50.0	10.9	20.0
Hexane	Ave	2.677	2.670		49.9	50.0	-0.3	20.0
Vinyl acetate	Ave	3.024	3.762		124	100	24.4*	20.0
1,1-Dichloroethane	Ave	2.484	2.697	0.2000	54.3	50.0	8.6	20.0
2-Butanone (MEK)	Ave	0.9024	1.095	0.1000	303	250	21.3*	20.0
2,2-Dichloropropane	Ave	1.900	1.972		51.9	50.0	3.8	20.0
cis-1,2-Dichloroethene	Ave	1.548	1.669	0.1000	53.9	50.0	7.8	20.0
Chlorobromomethane	Ave	0.7382	0.7914		53.6	50.0	7.2	20.0
Tetrahydrofuran	Ave	0.6101	0.6718		110	100	10.1	20.0
Chloroform	Ave	2.291	2.460	0.2000	53.7	50.0	7.4	20.0
1,1,1-Trichloroethane	Ave	1.845	1.965	0.1000	53.2	50.0	6.5	20.0
Cyclohexane	Ave	2.502	2.501	0.1000	50.0	50.0	-0.0	20.0
1,1-Dichloropropene	Ave	1.960	2.112		53.9	50.0	7.7	20.0
Carbon tetrachloride	Ave	1.656	1.799	0.1000	54.3	50.0	8.6	20.0
Isobutyl alcohol	Ave	0.0947	0.1111		1470	1250	17.4	50.0
Benzene	Ave	5.721	6.163	0.5000	53.9	50.0	7.7	20.0
1,2-Dichloroethane	Ave	1.879	1.990	0.1000	53.0	50.0	5.9	20.0
n-Heptane	Ave	2.672	2.831		53.0	50.0	5.9	20.0
Trichloroethene	Ave	1.424	1.502	0.2000	52.8	50.0	5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463385/4 Calibration Date: 03/18/2019 09:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9100.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.574	2.624	0.1000	51.0	50.0	1.9	20.0
1,2-Dichloropropane	Ave	1.506	1.583	0.1000	52.6	50.0	5.1	20.0
1,4-Dioxane	Ave	0.0080	0.0093		1160	1000	16.0	50.0
Dibromomethane	Ave	0.8624	0.9383	0.1000	54.4	50.0	8.8	20.0
Bromodichloromethane	Ave	1.775	1.858	0.2000	52.3	50.0	4.7	20.0
2-Chloroethyl vinyl ether	Ave	1.071	1.122		52.4	50.0	4.8	20.0
cis-1,3-Dichloropropene	Ave	2.403	2.433	0.2000	50.6	50.0	1.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.8296	0.8764	0.1000	264	250	5.6	20.0
Toluene	Ave	1.824	1.821	0.4000	49.9	50.0	-0.2	20.0
trans-1,3-Dichloropropene	Ave	1.126	1.102	0.1000	49.0	50.0	-2.1	20.0
Ethyl methacrylate	Ave	1.038	0.9319		44.9	50.0	-10.2	20.0
1,1,2-Trichloroethane	Ave	0.5446	0.5488	0.1000	50.4	50.0	0.8	20.0
Tetrachloroethene	Ave	0.8036	0.8726	0.2000	54.3	50.0	8.6	20.0
1,3-Dichloropropane	Ave	1.181	1.200		50.8	50.0	1.6	20.0
2-Hexanone	Ave	0.6596	0.7241	0.1000	274	250	9.8	20.0
Dibromochloromethane	Ave	0.6902	0.6926	0.1000	50.2	50.0	0.4	20.0
1,2-Dibromoethane	Ave	0.6761	0.6810		50.4	50.0	0.7	20.0
Chlorobenzene	Ave	2.047	2.064	0.5000	50.4	50.0	0.8	20.0
Ethylbenzene	Ave	3.297	3.323	0.1000	50.4	50.0	0.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.6632	0.6535		49.3	50.0	-1.5	20.0
m,p-Xylene	Ave	1.353	1.335	0.1000	49.4	50.0	-1.3	20.0
o-Xylene	Ave	1.271	1.219	0.3000	48.0	50.0	-4.1	20.0
Styrene	Ave	2.283	2.165	0.3000	47.4	50.0	-5.2	20.0
Bromoform	Ave	0.4786	0.5164	0.1000	53.9	50.0	7.9	50.0
Isopropylbenzene	Ave	3.280	2.903	0.1000	44.2	50.0	-11.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8792	0.8224	0.3000	46.8	50.0	-6.5	20.0
Bromobenzene	Ave	0.9362	0.8974		47.9	50.0	-4.1	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3132	0.2857		45.6	50.0	-8.8	50.0
1,2,3-Trichloropropane	Ave	0.2829	0.2812		49.7	50.0	-0.6	20.0
N-Propylbenzene	Ave	3.921	3.703		47.2	50.0	-5.6	20.0
2-Chlorotoluene	Ave	0.8306	0.7707		46.4	50.0	-7.2	20.0
1,3,5-Trimethylbenzene	Ave	2.762	2.511		45.5	50.0	-9.1	20.0
4-Chlorotoluene	Ave	0.8976	0.8453		47.1	50.0	-5.8	20.0
tert-Butylbenzene	Ave	0.6641	0.5770		43.4	50.0	-13.1	20.0
1,2,4-Trimethylbenzene	Ave	2.828	2.576		45.5	50.0	-8.9	20.0
sec-Butylbenzene	Ave	3.545	3.195		45.1	50.0	-9.9	20.0
4-Isopropyltoluene	Ave	3.091	2.816		45.5	50.0	-8.9	20.0
1,3-Dichlorobenzene	Ave	1.709	1.638	0.6000	47.9	50.0	-4.2	20.0
1,4-Dichlorobenzene	Ave	1.751	1.651	0.5000	47.1	50.0	-5.7	20.0
n-Butylbenzene	Ave	2.722	2.462		45.2	50.0	-9.5	20.0
1,2-Dichlorobenzene	Ave	1.583	1.461	0.4000	46.2	50.0	-7.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Lab Sample ID: CCVIS 480-463385/4 Calibration Date: 03/18/2019 09:37

Instrument ID: HP5973F Calib Start Date: 01/11/2019 11:17

GC Column: ZB-624 (30) VOA ID: 0.25(mm) Calib End Date: 01/11/2019 13:52

Lab File ID: F9100.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1745	0.1438	0.0500	41.2	50.0	-17.6	50.0
1,2,4-Trichlorobenzene	Ave	1.072	0.9842	0.2000	45.9	50.0	-8.2	20.0
Hexachlorobutadiene	Ave	0.5949	0.6203		52.1	50.0	4.3	20.0
Naphthalene	Ave	2.767	2.379		43.0	50.0	-14.0	20.0
1,2,3-Trichlorobenzene	Ave	0.999	0.9399		47.0	50.0	-6.0	20.0
Dibromofluoromethane (Surr)	Ave	1.157	1.221		52.7	50.0	5.5	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.7445	0.7898		53.0	50.0	6.1	20.0
Toluene-d8 (Surr)	Ave	2.358	2.376		50.4	50.0	0.7	20.0
4-Bromofluorobenzene (Surr)	Ave	0.7933	0.8729		55.0	50.0	10.0	20.0

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9100.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 18-Mar-2019 09:37:30 ALS Bottle#: 1 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 480-0079450-004
Operator ID: CDC Instrument ID: HP5973F
Sublist: chrom-F-8260 SOIL*sub27

Method: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 10:38:12 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 10:38:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	154530	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	85	334224	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	351618	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	95	188610	50.0	52.7	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	122051	50.0	53.0	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	793964	50.0	50.4	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	96	291735	50.0	55.0	
10 Dichlorodifluoromethane	85	2.116	2.116	0.000	99	172888	50.0	47.1	
12 Chloromethane	50	2.317	2.317	0.000	99	206465	50.0	50.4	
13 Vinyl chloride	62	2.414	2.414	0.000	98	205103	50.0	55.2	
151 Butadiene	54	2.433	2.433	0.000	89	195378	50.0	52.9	
14 Bromomethane	94	2.731	2.731	0.000	91	114538	50.0	52.9	
15 Chloroethane	64	2.798	2.798	0.000	99	98055	50.0	47.4	
16 Dichlorofluoromethane	67	2.956	2.956	0.000	97	257279	50.0	54.2	
17 Trichlorofluoromethane	101	2.998	2.998	0.000	98	289631	50.0	57.7	
18 Ethyl ether	59	3.193	3.193	0.000	93	226217	50.0	54.4	
20 Acrolein	56	3.339	3.339	0.000	100	170465	250.0	218.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	91	183305	50.0	55.0	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	186449	50.0	52.6	
23 Acetone	43	3.455	3.455	0.000	100	528060	250.0	312.1	
25 Iodomethane	142	3.576	3.576	0.000	98	307239	50.0	51.1	
26 Carbon disulfide	76	3.643	3.643	0.000	99	595143	50.0	49.7	
27 Methyl acetate	43	3.686	3.686	0.000	98	477008	100.0	102.3	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	90	368194	50.0	48.9	
30 Methylene Chloride	84	3.807	3.807	0.000	95	226568	50.0	48.0	
31 2-Methyl-2-propanol	59	3.838	3.838	0.000	98	327415	500.0	534.9	
32 Methyl tert-butyl ether	73	3.972	3.972	0.000	96	655070	50.0	50.0	
33 Acrylonitrile	53	3.996	3.996	0.000	99	1139838	500.0	590.8	
34 trans-1,2-Dichloroethene	96	4.008	4.008	0.000	99	231368	50.0	55.5	
35 Hexane	57	4.160	4.160	0.000	92	412559	50.0	49.9	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
37 Vinyl acetate	43	4.325	4.325	0.000	97	1162540	100.0	124.4	
39 1,1-Dichloroethane	63	4.343	4.343	0.000	96	416708	50.0	54.3	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	100	846089	250.0	303.4	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	257902	50.0	53.9	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	90	304691	50.0	51.9	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	122294	50.0	53.6	
49 Tetrahydrofuran	42	5.030	5.030	0.000	92	207613	100.0	110.1	
50 Chloroform	83	5.036	5.036	0.000	92	380196	50.0	53.7	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	303617	50.0	53.2	
52 Cyclohexane	56	5.243	5.243	0.000	91	386552	50.0	50.0	
54 1,1-Dichloropropene	75	5.322	5.322	0.000	94	326371	50.0	53.9	
55 Carbon tetrachloride	117	5.340	5.340	0.000	95	277996	50.0	54.3	
53 Isobutyl alcohol	43	5.340	5.340	0.000	94	429310	1250.0	1467.0	
57 Benzene	78	5.511	5.511	0.000	96	952405	50.0	53.9	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	307514	50.0	53.0	
59 n-Heptane	43	5.620	5.620	0.000	93	437512	50.0	53.0	
62 Trichloroethene	95	6.040	6.040	0.000	97	232116	50.0	52.8	
64 Methylcyclohexane	83	6.198	6.198	0.000	89	405461	50.0	51.0	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	98	244577	50.0	52.6	
66 1,4-Dioxane	88	6.356	6.356	0.000	95	61888	1000.0	1159.6	
67 Dibromomethane	93	6.381	6.381	0.000	92	144993	50.0	54.4	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	287156	50.0	52.3	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	92	173457	50.0	52.4	
72 cis-1,3-Dichloropropene	75	6.874	6.874	0.000	97	375969	50.0	50.6	
73 4-Methyl-2-pentanone (MIBK	43	6.971	6.971	0.000	96	1464524	250.0	264.1	
74 Toluene	92	7.190	7.190	0.000	99	608476	50.0	49.9	
77 trans-1,3-Dichloropropene	75	7.391	7.391	0.000	98	368469	50.0	49.0	
75 Ethyl methacrylate	69	7.397	7.397	0.000	90	311472	50.0	44.9	
79 1,1,2-Trichloroethane	83	7.585	7.585	0.000	91	183436	50.0	50.4	
81 Tetrachloroethene	166	7.719	7.719	0.000	97	291639	50.0	54.3	
82 1,3-Dichloropropane	76	7.756	7.756	0.000	94	401158	50.0	50.8	
80 2-Hexanone	43	7.768	7.768	0.000	95	1210048	250.0	274.4	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	231496	50.0	50.2	
84 Ethylene Dibromide	107	8.139	8.139	0.000	99	227615	50.0	50.4	
87 Chlorobenzene	112	8.601	8.601	0.000	96	689823	50.0	50.4	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1110616	50.0	50.4	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	95	218408	50.0	49.3	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	446337	50.0	49.4	
91 o-Xylene	106	9.222	9.222	0.000	97	407511	50.0	48.0	
92 Styrene	104	9.240	9.240	0.000	95	723576	50.0	47.4	
95 Bromoform	173	9.496	9.496	0.000	99	172579	50.0	53.9	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1020703	50.0	44.2	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	95	289180	50.0	46.8	
101 Bromobenzene	156	9.946	9.946	0.000	92	315547	50.0	47.9	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	72	100464	50.0	45.6	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	81	98888	50.0	49.7	
99 N-Propylbenzene	91	9.982	9.982	0.000	98	1302160	50.0	47.2	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	271003	50.0	46.4	
102 1,3,5-Trimethylbenzene	105	10.140	10.140	0.000	94	882979	50.0	45.5	
105 4-Chlorotoluene	126	10.207	10.207	0.000	97	297210	50.0	47.1	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	202877	50.0	43.4	
107 1,2,4-Trimethylbenzene	105	10.505	10.505	0.000	96	905792	50.0	45.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
109 sec-Butylbenzene	105	10.658	10.658	0.000	94	1123431	50.0	45.1	
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	990045	50.0	45.5	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	575998	50.0	47.9	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	580479	50.0	47.1	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	865706	50.0	45.2	
116 1,2-Dichlorobenzene	146	11.223	11.223	0.000	99	513750	50.0	46.2	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.886	0.000	88	50553	50.0	41.2	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	346047	50.0	45.9	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	218119	50.0	52.1	
121 Naphthalene	128	12.811	12.811	0.000	97	836661	50.0	43.0	
122 1,2,3-Trichlorobenzene	180	13.030	13.030	0.000	96	330472	50.0	47.0	

Reagents:

8260 CORP mix_00148	Amount Added: 25.00	Units: uL	
GAS CORP mix_00332	Amount Added: 25.00	Units: uL	
F 8260 IS/SS_00083	Amount Added: 1.00	Units: uL	Run Reagent

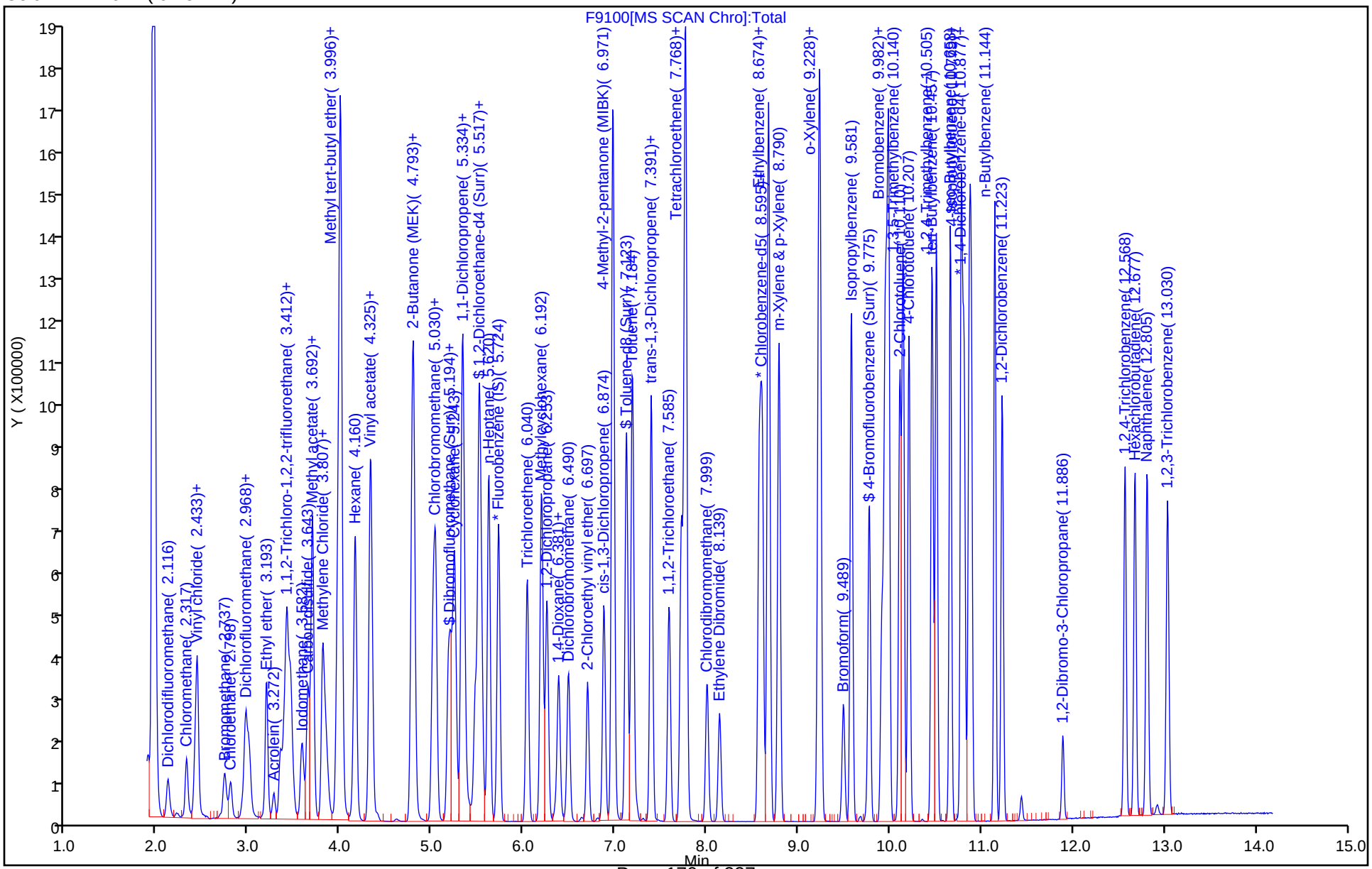
Report Date: 18-Mar-2019 10:38:15 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9100.D

Injection Date:	18-Mar-2019 09:37:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	CCVIS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Jan-2019 10:24:30 ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 480-0077924-004
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 14-Jan-2019 10:30:27 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0310

First Level Reviewer: cwiklinc Date: 14-Jan-2019 10:30:27

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.911	5.911	0.000	0	140401	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

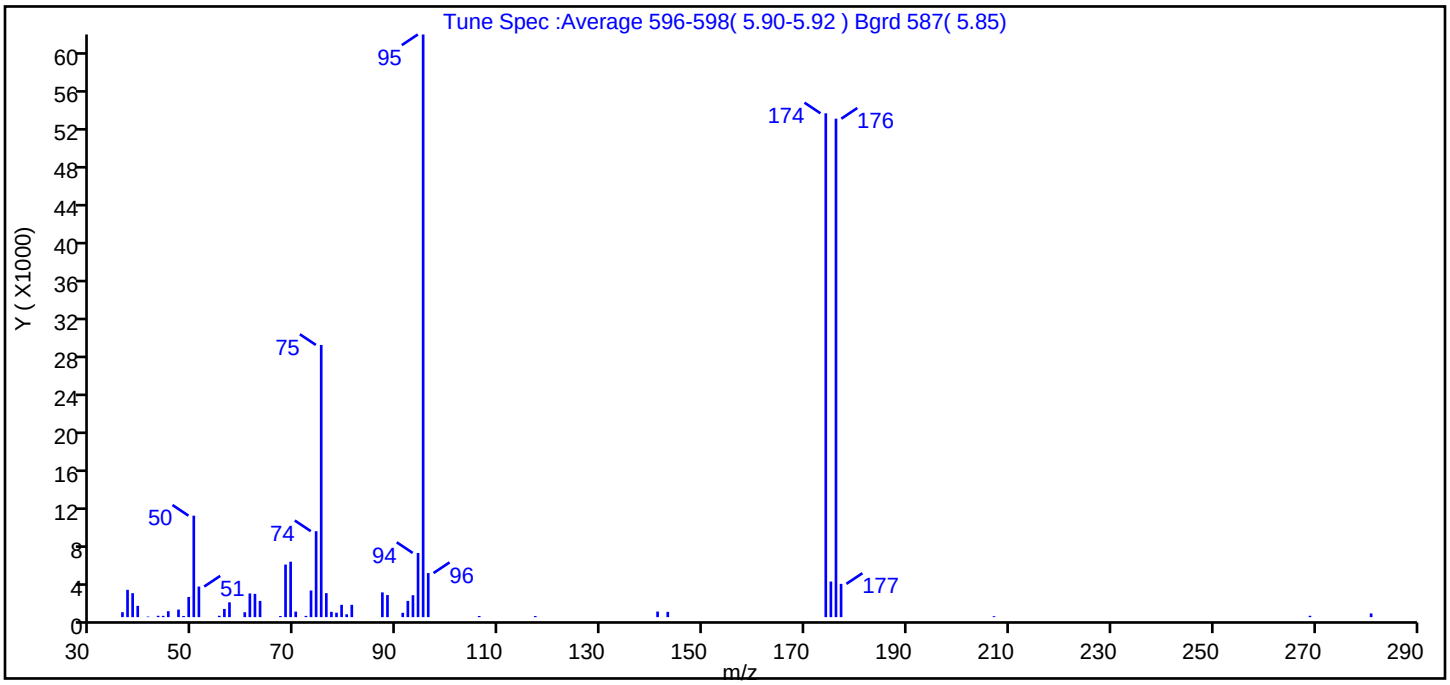
BFB_WRK_00082 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D
Injection Date: 11-Jan-2019 10:24:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 4
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	46.7
96	5 to 9% of m/z 95	7.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	86.5
175	5 to 9% of m/z 174	6.1 (7.1)
176	Greater than 95% but less than 101% of m/z 174	85.5 (98.9)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7811.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 11-Jan-2019 10:24:30
Spectrum: Tune Spec :Average 596-598(5.90-5.92) Bgrd 587(5.85)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 53

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	521	56.00	860	76.00	2524	106.00	121
37.00	2873	57.00	1560	77.00	558	117.00	117
38.00	2521	60.00	515	78.00	464	141.00	588
39.00	1187	61.00	2492	79.00	1296	143.00	557
41.00	62	62.00	2448	80.00	303	174.00	52984
43.00	143	63.00	1708	81.00	1295	175.00	3745
44.00	135	67.00	116	87.00	2603	176.00	52416
45.00	625	68.00	5527	88.00	2323	177.00	3500
47.00	796	69.00	5829	91.00	453	207.00	98
48.00	126	70.00	583	92.00	1708	269.00	143
49.00	2123	72.00	134	93.00	2306	281.00	391
50.00	10671	73.00	2802	94.00	6751		
51.00	3217	74.00	9041	95.00	61272		
55.00	144	75.00	28624	96.00	4637		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9070.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	15-Mar-2019 08:31:30	ALS Bottle#:	1	Worklist Smp#:	2
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0079401-002				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	15-Mar-2019 08:43:18	Calib Date:	11-Jan-2019 17:19:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0312				
First Level Reviewer: cwiklinc		Date:	15-Mar-2019 08:43:18		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.911	5.911	0.000	0	19393	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

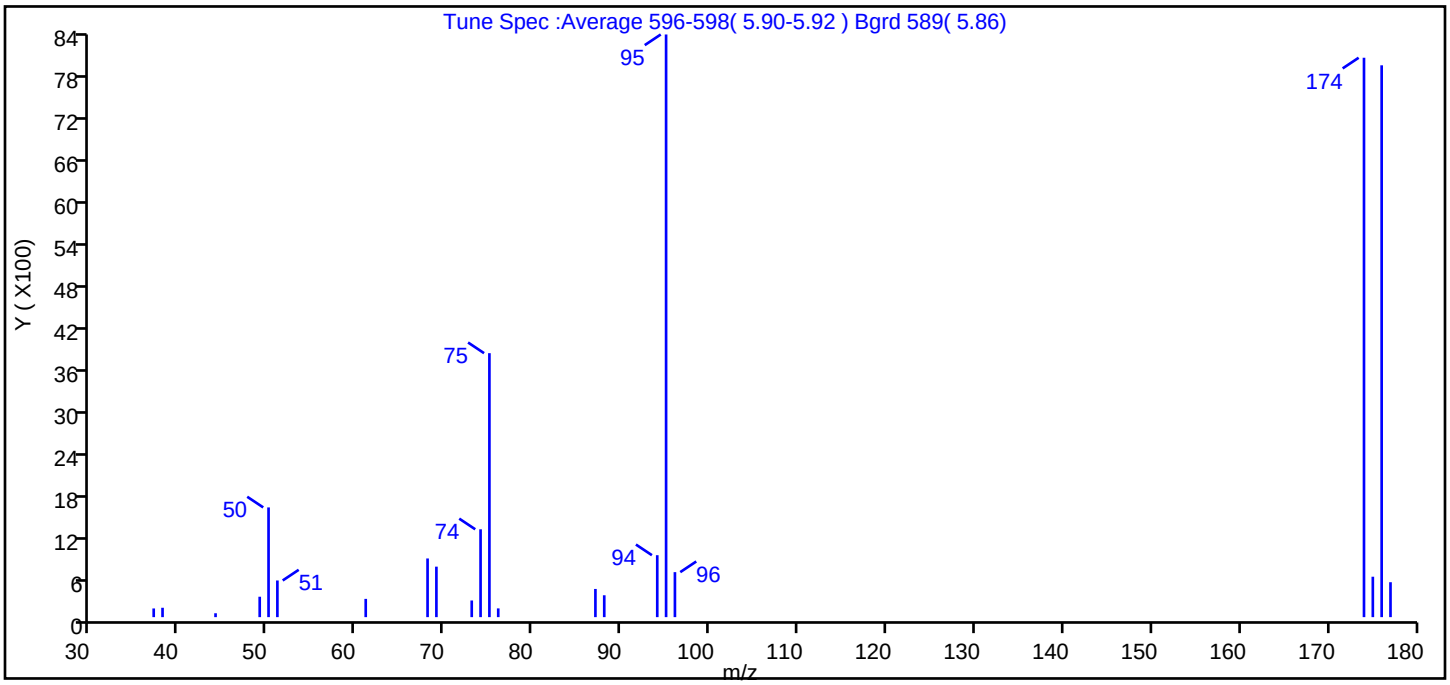
BFB_WRK_00083 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9070.D
Injection Date: 15-Mar-2019 08:31:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.8
75	30 to 60% of m/z 95	45.3
96	5 to 9% of m/z 95	7.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	96.0
175	5 to 9% of m/z 174	6.9 (7.2)
176	Greater than 95% but less than 101% of m/z 174	94.7 (98.6)
177	5 to 9% of m/z 176	6.0 (6.3)

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9070.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 15-Mar-2019 08:31:30
Spectrum: Tune Spec :Average 596-598(5.90-5.92) Bgrd 589(5.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 22

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	125	61.00	263	76.00	126	174.00	8055
38.00	135	68.00	845	87.00	406	175.00	582
44.00	56	69.00	727	88.00	315	176.00	7946
49.00	294	73.00	240	94.00	892	177.00	503
50.00	1580	74.00	1265	95.00	8390		
51.00	528	75.00	3801	96.00	648		

TestAmerica Buffalo
Target Compound Quantitation Report

Data File:	\\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9099.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	18-Mar-2019 09:08:30	ALS Bottle#:	1	Worklist Smp#:	3
Injection Vol:	1.0 uL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	480-0079450-003				
Operator ID:	CDC	Instrument ID:	HP5973F		
Method:	\\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F-8260 SOIL.m				
Limit Group:	MV - 8260C ICAL				
Last Update:	18-Mar-2019 10:02:59	Calib Date:	11-Jan-2019 17:19:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D				
Column 1 :	ZB-624 (0.25 mm)		Det: MS SCAN		
Process Host:	CTX0331				
First Level Reviewer: cwiklinc		Date:	18-Mar-2019 09:24:57		

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
$ 61 BFB	95	5.905	5.905	0.000	0	57179	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

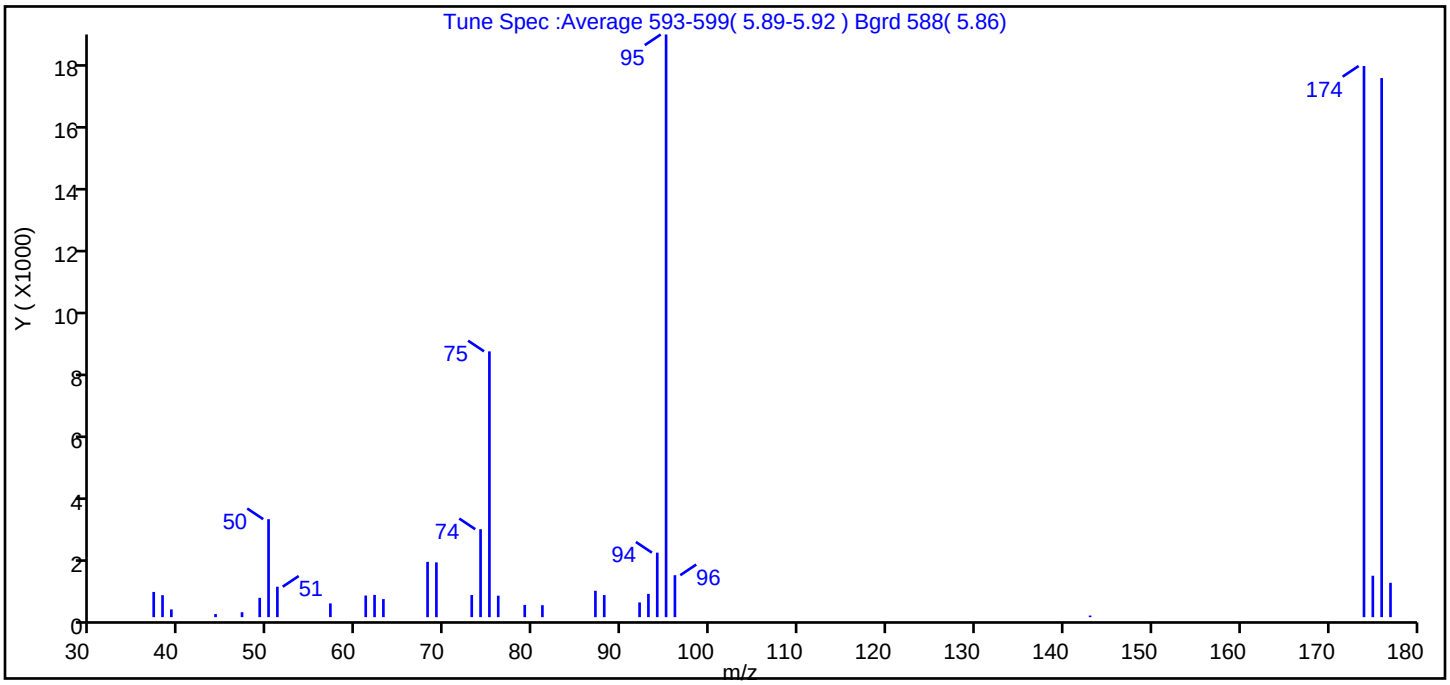
BFB_WRK_00083 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9099.D
Injection Date: 18-Mar-2019 09:08:30 Instrument ID: HP5973F
Lims ID: BFB
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: F-8260 SOIL Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

$ 61 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	45.6
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.6
175	5 to 9% of m/z 174	7.1 (7.5)
176	Greater than 95% but less than 101% of m/z 174	92.5 (97.8)
177	5 to 9% of m/z 176	5.9 (6.4)

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9099.D\F-8260 SOIL.rslt\spectra.d
Injection Date: 18-Mar-2019 09:08:30
Spectrum: Tune Spec :Average 593-599(5.89-5.92) Bgrd 588(5.86)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	819	57.00	447	75.00	8638	94.00	2096
38.00	714	61.00	702	76.00	697	95.00	18936
39.00	252	62.00	723	79.00	396	96.00	1363
44.00	100	63.00	586	81.00	388	143.00	51
47.00	160	68.00	1797	87.00	858	174.00	17912
49.00	627	69.00	1780	88.00	718	175.00	1346
50.00	3184	73.00	719	92.00	478	176.00	17520
51.00	989	74.00	2858	93.00	756	177.00	1116

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-463180/2-A

Matrix: Solid | Lab File ID: F9075.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 10:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
98-82-8	Isopropylbenzene	ND		5.0	0.75
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-463180/2-A

Matrix: Solid | Lab File ID: F9075.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 10:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	ND		5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	103		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	104		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9075.D
Lims ID: MB 480-463180/2-A
Client ID:
Sample Type: MB
Inject. Date: 15-Mar-2019 10:54:30 ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0079401-007
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 12:12:33 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: cwiklinc Date: 15-Mar-2019 12:12:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	166572	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	84	352369	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	327059	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.176	0.006	94	200780	50.0	52.1	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	131504	50.0	53.0	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	850337	50.0	51.2	
$ 6 4-Bromofluorobenzene (Surr	174	9.781	9.776	0.005	97	288578	50.0	51.6	
10 Dichlorodifluoromethane	85		2.110					ND	
11 Chlorodifluoromethane	51		2.122					ND	
12 Chloromethane	50		2.311					ND	
13 Vinyl chloride	62		2.408					ND	
151 Butadiene	54		2.433					ND	
14 Bromomethane	94		2.725					ND	
15 Chloroethane	64		2.792					ND	
16 Dichlorofluoromethane	67		2.950					ND	
17 Trichlorofluoromethane	101		2.992					ND	
148 Ethanol	45		3.126					ND	
18 Ethyl ether	59		3.187					ND	
19 Propene oxide	58		3.284					ND	
20 Acrolein	56		3.339					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394					ND	
22 1,1-Dichloroethene	96		3.418					ND	
23 Acetone	43	3.467	3.449	0.018	97	3293		1.81	
24 Isopropyl alcohol	45		3.528					ND	
25 Iodomethane	142		3.576					ND	
26 Carbon disulfide	76		3.637					ND	
27 Methyl acetate	43		3.680					ND	
28 3-Chloro-1-propene	41		3.692					ND	
29 Acetonitrile	40		3.698					ND	
30 Methylene Chloride	84	3.807	3.801	0.006	91	6474		1.27	
31 2-Methyl-2-propanol	59		3.838					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.966					ND	
33 Acrylonitrile	53		3.996					ND	
34 trans-1,2-Dichloroethene	96		4.002					ND	
35 Hexane	57	4.166	4.160	0.006	85	2154		0.2415	
134 Halothane	117		4.282					ND	
36 Isopropyl ether	45		4.306					ND	
37 Vinyl acetate	43		4.319					ND	
39 1,1-Dichloroethane	63		4.337					ND	
38 1,1-Dimethoxyethane	75		4.373					ND	
40 2-Chloro-1,3-butadiene	53		4.404					ND	
41 Tert-butyl ethyl ether	59		4.592					ND	
43 2-Butanone (MEK)	43		4.775					ND	
42 Ethyl acetate	43		4.781					ND	
44 2,2-Dichloropropane	77		4.799					ND	
45 cis-1,2-Dichloroethene	96		4.799					ND	
46 Propionitrile	54		4.860					ND	
47 Methacrylonitrile	41		4.970					ND	
48 Chlorobromomethane	128		5.006					ND	
49 Tetrahydrofuran	42		5.024					ND	
50 Chloroform	83		5.036					ND	
51 1,1,1-Trichloroethane	97		5.207					ND	
52 Cyclohexane	56		5.243					ND	
54 1,1-Dichloropropene	75		5.322					ND	
55 Carbon tetrachloride	117		5.341					ND	
53 Isobutyl alcohol	43		5.341					ND	
147 t-Amyl alcohol	59		5.432					ND	
152 Isooctane	57		5.493					ND	
57 Benzene	78		5.511					ND	
56 Tert-amyl methyl ether	73		5.529					ND	
58 1,2-Dichloroethane	62		5.535					ND	
59 n-Heptane	43		5.620					ND	
1 1,4-Difluorobenzene	114		5.785					ND	
60 n-Butanol	56		5.894					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.937					ND	
62 Trichloroethene	95		6.040					ND	
137 Ethyl acrylate	55		6.052					ND	
135 2,4,4-Trimethyl-2-pentene	97		6.125					ND	
64 Methylcyclohexane	83		6.198					ND	
65 1,2-Dichloropropane	63		6.253					ND	
63 Methyl methacrylate	41		6.259					ND	
66 1,4-Dioxane	88		6.350					ND	
67 Dibromomethane	93		6.381					ND	
68 Dichlorobromomethane	83		6.490					ND	
70 2-Nitropropane	43		6.691					ND	
69 2-Chloroethyl vinyl ether	63		6.697					ND	
71 Epichlorohydrin	57		6.807					ND	
72 cis-1,3-Dichloropropene	75		6.880					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.977					ND	
74 Toluene	92		7.190					ND	
76 2-Methylthiophene	97		7.318					ND	
77 trans-1,3-Dichloropropene	75		7.391					ND	
75 Ethyl methacrylate	69		7.397					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		7.476					ND	
79 1,1,2-Trichloroethane	83		7.592					ND	
81 Tetrachloroethene	166		7.725					ND	
82 1,3-Dichloropropane	76		7.756					ND	
80 2-Hexanone	43		7.768					ND	
155 n-Butyl acetate	43		7.853					ND	
83 Chlorodibromomethane	129		8.005					ND	
84 Ethylene Dibromide	107		8.139					ND	
85 3-Chlorobenzotrifluoride	180		8.498					ND	
146 1-Chlorohexane	55		8.504					ND	
86 4-Chlorobenzotrifluoride	180		8.559					ND	
87 Chlorobenzene	112		8.607					ND	
88 Ethylbenzene	91		8.674					ND	
89 1,1,1,2-Tetrachloroethane	131		8.680					ND	
90 m-Xylene & p-Xylene	106		8.790					ND	
91 o-Xylene	106		9.222					ND	
92 Styrene	104		9.240					ND	
93 2-Chlorobenzotrifluoride	180		9.478					ND	
95 Bromoform	173		9.496					ND	
94 Isopropylbenzene	105		9.581					ND	
96 Cyclohexanone	55		9.745					ND	
97 1,1,2,2-Tetrachloroethane	83		9.909					ND	
101 Bromobenzene	156		9.946					ND	
98 trans-1,4-Dichloro-2-buten	53		9.958					ND	
100 1,2,3-Trichloropropane	110		9.970					ND	
99 N-Propylbenzene	91		9.988					ND	
103 2-Chlorotoluene	126		10.110					ND	
102 1,3,5-Trimethylbenzene	105		10.147					ND	
104 3-Chlorotoluene	126		10.165					ND	
105 4-Chlorotoluene	126		10.207					ND	
106 tert-Butylbenzene	134		10.463					ND	
107 1,2,4-Trimethylbenzene	105		10.512					ND	
108 Pentachloroethane	167		10.524					ND	
109 sec-Butylbenzene	105		10.664					ND	
110 4-Isopropyltoluene	119		10.779					ND	
111 1,3-Dichlorobenzene	146		10.810					ND	
113 1,4-Dichlorobenzene	146		10.889					ND	
114 Dicyclopentadiene	66		10.895					ND	
112 1,2,3-Trimethylbenzene	105		10.907					ND	
150 Benzyl chloride	126		11.004					ND	
115 n-Butylbenzene	91		11.144					ND	
116 1,2-Dichlorobenzene	146		11.229					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.893					ND	
118 1,3,5-Trichlorobenzene	180		12.033					ND	
119 1,2,4-Trichlorobenzene	180		12.568					ND	
120 Hexachlorobutadiene	225		12.677					ND	
121 Naphthalene	128		12.811					ND	
122 1,2,3-Trichlorobenzene	180		13.036					ND	
149 2-Methylnaphthalene	142	13.936	13.936	-0.007	84	2490		0.2212	M
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

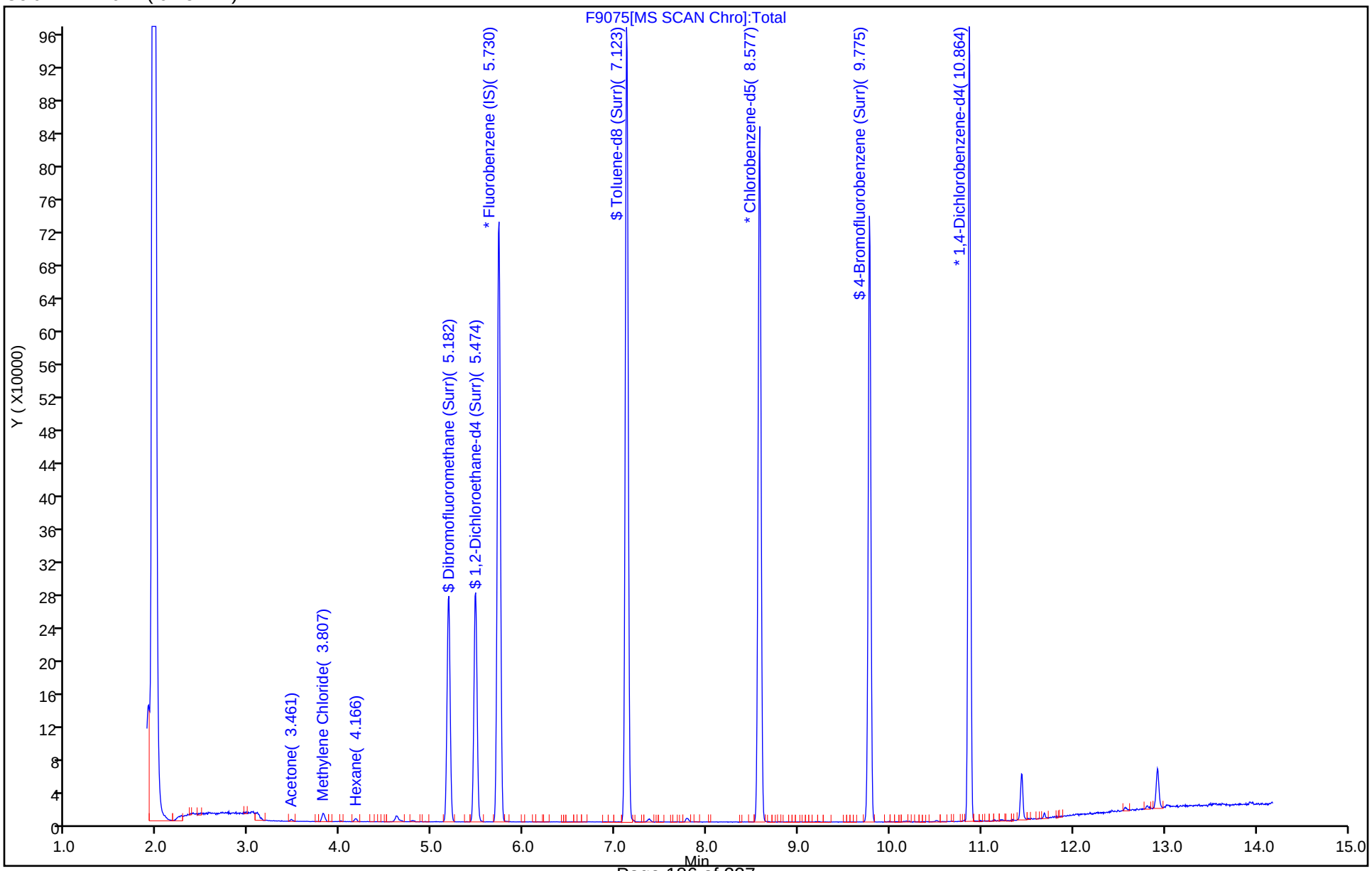
Report Date: 15-Mar-2019 12:12:34 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9075.D

Injection Date:	15-Mar-2019 10:54:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	MB 480-463180/2-A			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-463418/2-A

Matrix: Solid | Lab File ID: F9104.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/18/2019 11:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	ND		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1
79-00-5	1,1,2-Trichloroethane	ND		5.0	0.65
75-34-3	1,1-Dichloroethane	ND		5.0	0.61
75-35-4	1,1-Dichloroethene	ND		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	ND		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	ND		5.0	2.5
95-50-1	1,2-Dichlorobenzene	ND		5.0	0.39
107-06-2	1,2-Dichloroethane	ND		5.0	0.25
78-87-5	1,2-Dichloropropane	ND		5.0	2.5
541-73-1	1,3-Dichlorobenzene	ND		5.0	0.26
106-46-7	1,4-Dichlorobenzene	ND		5.0	0.70
78-93-3	2-Butanone (MEK)	ND		25	1.8
591-78-6	2-Hexanone	ND		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		25	1.6
67-64-1	Acetone	ND		25	4.2
71-43-2	Benzene	ND		5.0	0.25
75-25-2	Bromoform	ND		5.0	2.5
74-83-9	Bromomethane	ND		5.0	0.45
75-15-0	Carbon disulfide	ND		5.0	2.5
56-23-5	Carbon tetrachloride	ND		5.0	0.48
108-90-7	Chlorobenzene	ND		5.0	0.66
124-48-1	Dibromochloromethane	ND		5.0	0.64
75-00-3	Chloroethane	ND		5.0	1.1
67-66-3	Chloroform	ND		5.0	0.31
74-87-3	Chloromethane	ND		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	ND		5.0	0.64
110-82-7	Cyclohexane	ND		5.0	0.70
75-27-4	Bromodichloromethane	ND		5.0	0.67
75-71-8	Dichlorodifluoromethane	ND		5.0	0.41
100-41-4	Ethylbenzene	ND		5.0	0.35
106-93-4	1,2-Dibromoethane	ND		5.0	0.64
98-82-8	Isopropylbenzene	ND		5.0	0.75
79-20-9	Methyl acetate	ND		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 480-463418/2-A

Matrix: Solid | Lab File ID: F9104.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/18/2019 11:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		5.0	0.49
108-87-2	Methylcyclohexane	ND		5.0	0.76
75-09-2	Methylene Chloride	2.83	J	5.0	2.3
127-18-4	Tetrachloroethene	ND		5.0	0.67
108-88-3	Toluene	ND		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	ND		5.0	2.2
79-01-6	Trichloroethene	ND		5.0	1.1
75-69-4	Trichlorofluoromethane	ND		5.0	0.47
75-01-4	Vinyl chloride	ND		5.0	0.61
1330-20-7	Xylenes, Total	ND		10	0.84
10061-01-5	cis-1,3-Dichloropropene	ND		5.0	0.72
100-42-5	Styrene	ND		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	102		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	105		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9104.D
Lims ID: MB 480-463418/2-A
Client ID:
Sample Type: MB
Inject. Date: 18-Mar-2019 11:24:30 ALS Bottle#: 5 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 480-0079450-008
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 12:16:40 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 12:21:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.730	5.724	0.006	99	153608	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	85	328896	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	94	305164	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.182	5.182	0.006	95	186777	50.0	52.5	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.474	5.468	0.006	97	120745	50.0	52.8	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	789690	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	97	266880	50.0	51.1	
10 Dichlorodifluoromethane	85		2.116					ND	
11 Chlorodifluoromethane	51		2.122					ND	
12 Chloromethane	50		2.317					ND	
13 Vinyl chloride	62		2.414					ND	
151 Butadiene	54		2.433					ND	
14 Bromomethane	94		2.731					ND	
15 Chloroethane	64		2.798					ND	
16 Dichlorofluoromethane	67		2.956					ND	
17 Trichlorofluoromethane	101		2.998					ND	
148 Ethanol	45		3.126					ND	
18 Ethyl ether	59		3.193					ND	
19 Propene oxide	58		3.278					ND	
20 Acrolein	56		3.339					ND	
21 1,1,2-Trichloro-1,2,2-trif	101		3.394					ND	
22 1,1-Dichloroethene	96		3.418					ND	
23 Acetone	43	3.467	3.455	0.012	99	3393		2.02	
24 Isopropyl alcohol	45		3.527					ND	
25 Iodomethane	142		3.576					ND	
26 Carbon disulfide	76		3.643					ND	
27 Methyl acetate	43		3.686					ND	
29 Acetonitrile	40		3.698					ND	
28 3-Chloro-1-propene	41		3.698					ND	
30 Methylene Chloride	84	3.820	3.807	0.013	93	13273		2.83	
31 2-Methyl-2-propanol	59		3.838					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
32 Methyl tert-butyl ether	73		3.972					ND	
33 Acrylonitrile	53		3.996					ND	
34 trans-1,2-Dichloroethene	96		4.008					ND	
35 Hexane	57	4.172	4.160	0.012	92	9183		1.12	
134 Halothane	117		4.276					ND	
36 Isopropyl ether	45		4.306					ND	
37 Vinyl acetate	43		4.325					ND	
39 1,1-Dichloroethane	63		4.343					ND	
38 1,1-Dimethoxyethane	75		4.373					ND	
40 2-Chloro-1,3-butadiene	53		4.397					ND	
41 Tert-butyl ethyl ether	59		4.592					ND	
42 Ethyl acetate	43		4.780					ND	
43 2-Butanone (MEK)	43		4.781					ND	
45 cis-1,2-Dichloroethene	96		4.799					ND	
44 2,2-Dichloropropane	77		4.799					ND	
46 Propionitrile	54		4.860					ND	
47 Methacrylonitrile	41		4.969					ND	
48 Chlorobromomethane	128		5.006					ND	
49 Tetrahydrofuran	42		5.030					ND	
50 Chloroform	83		5.036					ND	
51 1,1,1-Trichloroethane	97		5.207					ND	
52 Cyclohexane	56		5.243					ND	
54 1,1-Dichloropropene	75		5.322					ND	
55 Carbon tetrachloride	117		5.340					ND	
53 Isobutyl alcohol	43		5.340					ND	
147 t-Amyl alcohol	59		5.425					ND	
152 Isooctane	57		5.492					ND	
57 Benzene	78		5.511					ND	
56 Tert-amyl methyl ether	73		5.529					ND	
58 1,2-Dichloroethane	62		5.535					ND	
59 n-Heptane	43		5.620					ND	
1 1,4-Difluorobenzene	114		5.784					ND	
60 n-Butanol	56		5.894					ND	
136 2,4,4-Trimethyl-1-pentene	57		5.930					ND	
62 Trichloroethene	95		6.040					ND	
137 Ethyl acrylate	55		6.052					ND	
135 2,4,4-Trimethyl-2-pentene	97		6.119					ND	
64 Methylcyclohexane	83		6.198					ND	
65 1,2-Dichloropropane	63		6.253					ND	
63 Methyl methacrylate	41		6.259					ND	
66 1,4-Dioxane	88		6.356					ND	
67 Dibromomethane	93		6.381					ND	
68 Dichlorobromomethane	83		6.490					ND	
70 2-Nitropropane	43		6.691					ND	
69 2-Chloroethyl vinyl ether	63		6.697					ND	
71 Epichlorohydrin	57		6.800					ND	
72 cis-1,3-Dichloropropene	75		6.874					ND	
73 4-Methyl-2-pentanone (MIBK	43		6.971					ND	
74 Toluene	92		7.190					ND	
76 2-Methylthiophene	97		7.318					ND	
77 trans-1,3-Dichloropropene	75		7.391					ND	
75 Ethyl methacrylate	69		7.397					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
78 3-Methylthiophene	97		7.476					ND	
79 1,1,2-Trichloroethane	83		7.585					ND	
81 Tetrachloroethene	166		7.719					ND	
82 1,3-Dichloropropane	76		7.756					ND	
80 2-Hexanone	43		7.768					ND	
155 n-Butyl acetate	43		7.847					ND	
83 Chlorodibromomethane	129		8.005					ND	
84 Ethylene Dibromide	107		8.139					ND	
85 3-Chlorobenzotrifluoride	180		8.498					ND	
146 1-Chlorohexane	55		8.498					ND	
86 4-Chlorobenzotrifluoride	180		8.552					ND	
87 Chlorobenzene	112		8.601					ND	
88 Ethylbenzene	91		8.674					ND	
89 1,1,1,2-Tetrachloroethane	131		8.680					ND	
90 m-Xylene & p-Xylene	106		8.790					ND	
91 o-Xylene	106		9.222					ND	
92 Styrene	104		9.240					ND	
93 2-Chlorobenzotrifluoride	180		9.477					ND	
95 Bromoform	173		9.496					ND	
94 Isopropylbenzene	105		9.581					ND	
96 Cyclohexanone	55		9.745					ND	
97 1,1,2,2-Tetrachloroethane	83		9.909					ND	
101 Bromobenzene	156		9.946					ND	
98 trans-1,4-Dichloro-2-buten	53		9.958					ND	
100 1,2,3-Trichloropropane	110		9.970					ND	
99 N-Propylbenzene	91		9.982					ND	
103 2-Chlorotoluene	126		10.110					ND	
102 1,3,5-Trimethylbenzene	105		10.140					ND	
104 3-Chlorotoluene	126		10.158					ND	
105 4-Chlorotoluene	126		10.207					ND	
106 tert-Butylbenzene	134		10.463					ND	
107 1,2,4-Trimethylbenzene	105		10.505					ND	
108 Pentachloroethane	167		10.523					ND	
109 sec-Butylbenzene	105		10.658					ND	
110 4-Isopropyltoluene	119		10.779					ND	
111 1,3-Dichlorobenzene	146		10.810					ND	
113 1,4-Dichlorobenzene	146		10.889					ND	
114 Dicyclopentadiene	66		10.894					ND	
112 1,2,3-Trimethylbenzene	105		10.901					ND	
150 Benzyl chloride	126		11.004					ND	
115 n-Butylbenzene	91		11.144					ND	
116 1,2-Dichlorobenzene	146		11.223					ND	
117 1,2-Dibromo-3-Chloropropan	75		11.886					ND	
118 1,3,5-Trichlorobenzene	180		12.026					ND	
119 1,2,4-Trichlorobenzene	180		12.568					ND	
120 Hexachlorobutadiene	225		12.677					ND	
121 Naphthalene	128		12.811					ND	
122 1,2,3-Trichlorobenzene	180		13.030					ND	
149 2-Methylnaphthalene	142	13.937	13.936	0.001	86	1823		0.1736	
143 Propene oxide TIC	1		0.000					ND	
156 1-Chloro-1-fluoroethane TI	1		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
144 1-Bromopropane TIC	1		0.000					ND	
S 123 Total BTEX	1		30.000					ND	
S 124 Xylenes, Total	1		30.000					ND	
S 125 1,2-Dichloroethene, Total	1		30.000					ND	
S 126 1,3-Dichloropropene, Total	1		30.000					ND	
S 157 Trihalomethanes, Total	1		0.000					ND	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

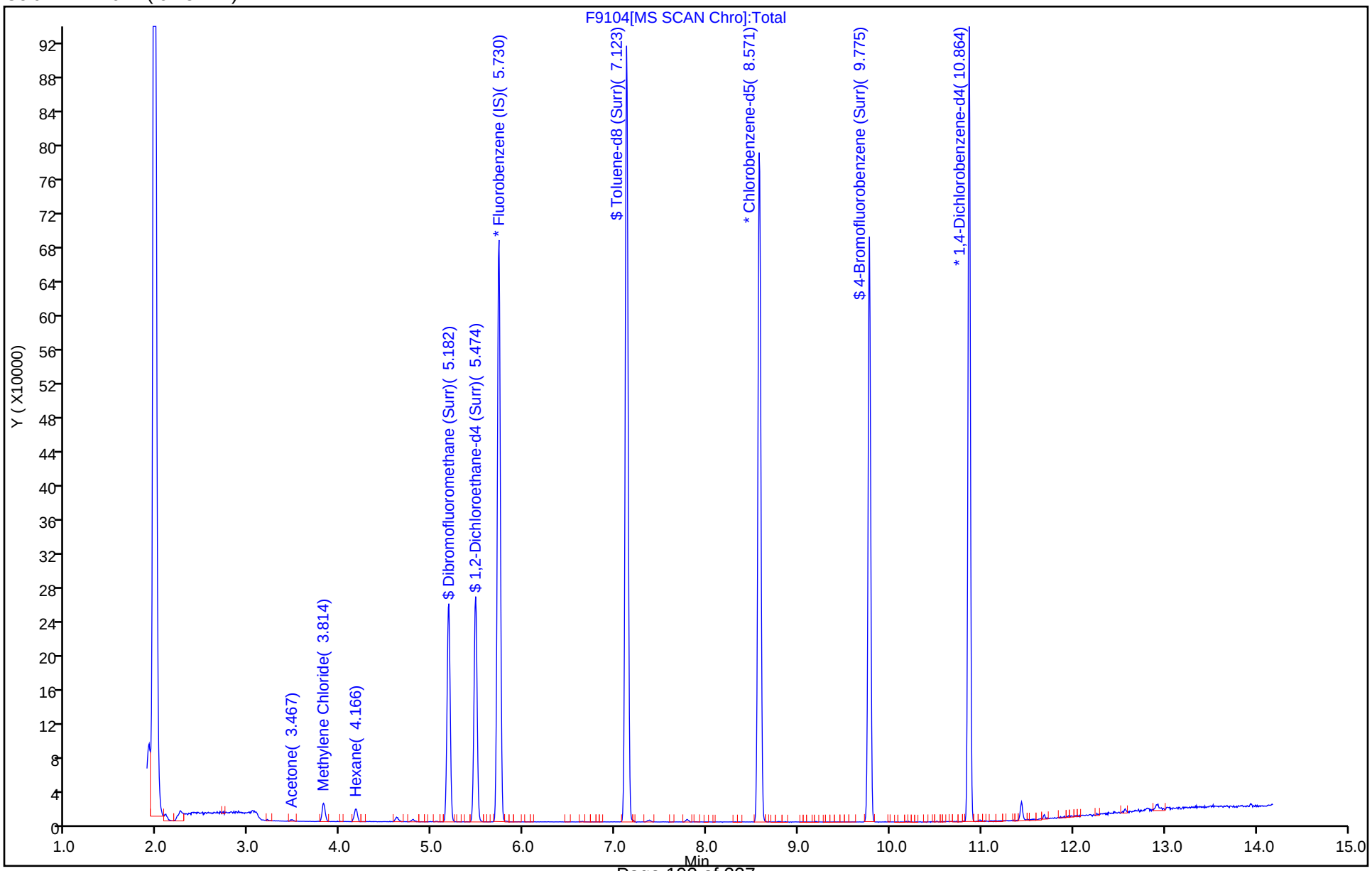
Report Date: 18-Mar-2019 12:21:33 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9104.D

Injection Date:	18-Mar-2019 11:24:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	MB 480-463418/2-A			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



Report Date: 18-Mar-2019 12:21:33 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9104.D

Injection Date: 18-Mar-2019 11:24:30 Instrument ID: HP5973F

Lims ID: MB 480-463418/2-A

Client ID:

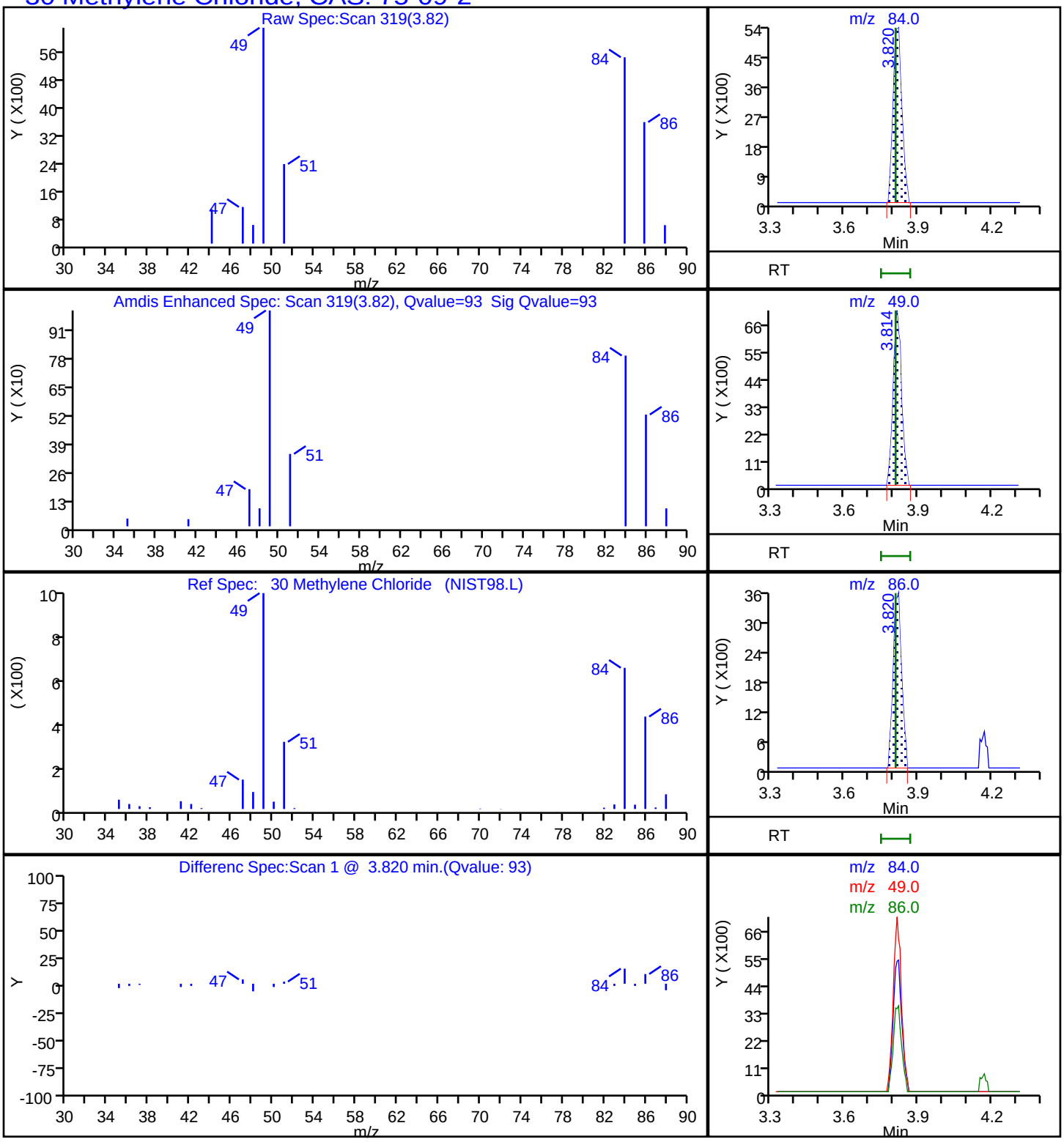
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm) Detector MS SCAN

30 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-463180/1-A

Matrix: Solid | Lab File ID: F9073.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	52.0		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	47.8		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.7		5.0	1.1
79-00-5	1,1,2-Trichloroethane	49.8		5.0	0.65
75-34-3	1,1-Dichloroethane	52.2		5.0	0.61
75-35-4	1,1-Dichloroethene	52.0		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	46.4		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	38.6		5.0	2.5
95-50-1	1,2-Dichlorobenzene	46.6		5.0	0.39
107-06-2	1,2-Dichloroethane	52.0		5.0	0.25
78-87-5	1,2-Dichloropropane	51.9		5.0	2.5
541-73-1	1,3-Dichlorobenzene	47.8		5.0	0.26
106-46-7	1,4-Dichlorobenzene	47.2		5.0	0.70
78-93-3	2-Butanone (MEK)	255		25	1.8
591-78-6	2-Hexanone	235		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	234		25	1.6
67-64-1	Acetone	273		25	4.2
71-43-2	Benzene	52.7		5.0	0.25
75-25-2	Bromoform	54.0		5.0	2.5
74-83-9	Bromomethane	55.5		5.0	0.45
75-15-0	Carbon disulfide	50.3		5.0	2.5
56-23-5	Carbon tetrachloride	53.5		5.0	0.48
108-90-7	Chlorobenzene	50.1		5.0	0.66
124-48-1	Dibromochloromethane	51.0		5.0	0.64
75-00-3	Chloroethane	51.1		5.0	1.1
67-66-3	Chloroform	52.4		5.0	0.31
74-87-3	Chloromethane	49.0		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	52.8		5.0	0.64
110-82-7	Cyclohexane	48.3		5.0	0.70
75-27-4	Bromodichloromethane	51.5		5.0	0.67
75-71-8	Dichlorodifluoromethane	48.4		5.0	0.41
100-41-4	Ethylbenzene	49.7		5.0	0.35
106-93-4	1,2-Dibromoethane	50.4		5.0	0.64
98-82-8	Isopropylbenzene	45.8		5.0	0.75
79-20-9	Methyl acetate	90.9		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-463180/1-A

Matrix: Solid | Lab File ID: F9073.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	50.3		5.0	0.49
108-87-2	Methylcyclohexane	50.0		5.0	0.76
75-09-2	Methylene Chloride	46.8		5.0	2.3
127-18-4	Tetrachloroethene	53.2		5.0	0.67
108-88-3	Toluene	49.7		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	53.5		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	48.9		5.0	2.2
79-01-6	Trichloroethene	51.7		5.0	1.1
75-69-4	Trichlorofluoromethane	52.0		5.0	0.47
75-01-4	Vinyl chloride	53.3		5.0	0.61
1330-20-7	Xylenes, Total	97.4		10	0.84
10061-01-5	cis-1,3-Dichloropropene	50.9		5.0	0.72
100-42-5	Styrene	46.8		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	110		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9073.D
Lims ID: LCS 480-463180/1-A
Client ID:
Sample Type: LCS
Inject. Date: 15-Mar-2019 10:02:30 ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0079401-005
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 15-Mar-2019 12:08:53 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0312

First Level Reviewer: cwiklinc Date: 15-Mar-2019 12:08:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	169997	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.577	8.571	0.006	84	361789	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	367743	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.176	0.000	95	208289	50.0	52.9	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	134440	50.0	53.1	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	93	872177	50.0	51.1	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.776	-0.001	96	315036	50.0	54.9	
10 Dichlorodifluoromethane	85	2.116	2.110	0.006	99	195398	50.0	48.4	
12 Chloromethane	50	2.317	2.311	0.006	99	220609	50.0	49.0	
13 Vinyl chloride	62	2.414	2.408	0.006	98	218200	50.0	53.3	
151 Butadiene	54	2.432	2.433	-0.001	88	215247	50.0	53.0	
14 Bromomethane	94	2.737	2.725	0.012	90	132153	50.0	55.5	
15 Chloroethane	64	2.797	2.792	0.005	99	116239	50.0	51.1	
16 Dichlorofluoromethane	67	2.962	2.950	0.012	97	274985	50.0	52.7	
17 Trichlorofluoromethane	101	2.998	2.992	0.006	97	286955	50.0	52.0	
18 Ethyl ether	59	3.193	3.187	0.006	92	236094	50.0	51.6	
20 Acrolein	56	3.345	3.339	0.006	99	158317	250.0	184.6	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	92	193088	50.0	52.7	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	202960	50.0	52.0	
23 Acetone	43	3.454	3.449	0.005	100	508121	250.0	273.0	
25 Iodomethane	142	3.576	3.576	0.000	98	349298	50.0	52.8	
26 Carbon disulfide	76	3.643	3.637	0.006	99	662650	50.0	50.3	
27 Methyl acetate	43	3.686	3.680	0.006	98	466234	100.0	90.9	
28 3-Chloro-1-propene	41	3.698	3.692	0.006	91	392319	50.0	47.3	
30 Methylene Chloride	84	3.807	3.801	0.006	94	243024	50.0	46.8	
31 2-Methyl-2-propanol	59	3.844	3.838	0.006	99	314134	500.0	466.5	
32 Methyl tert-butyl ether	73	3.972	3.966	0.006	95	724032	50.0	50.3	
33 Acrylonitrile	53	3.996	3.996	0.000	99	1124442	500.0	529.8	
34 trans-1,2-Dichloroethene	96	4.008	4.002	0.006	99	245301	50.0	53.5	
35 Hexane	57	4.160	4.160	0.000	91	412113	50.0	45.3	
37 Vinyl acetate	43	4.324	4.319	0.005	97	1216293	100.0	118.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.343	4.337	0.006	96	440768	50.0	52.2	
43 2-Butanone (MEK)	43	4.781	4.775	0.006	100	783029	250.0	255.2	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	60	323103	50.0	50.0	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	277764	50.0	52.8	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	136061	50.0	54.2	
49 Tetrahydrofuran	42	5.030	5.024	0.006	90	194007	100.0	93.5	
50 Chloroform	83	5.042	5.036	0.006	93	408010	50.0	52.4	
51 1,1,1-Trichloroethane	97	5.207	5.207	-0.001	98	326483	50.0	52.0	
52 Cyclohexane	56	5.249	5.243	0.006	89	410653	50.0	48.3	
54 1,1-Dichloropropene	75	5.328	5.322	0.006	99	347066	50.0	52.1	
55 Carbon tetrachloride	117	5.340	5.341	-0.001	94	301039	50.0	53.5	
53 Isobutyl alcohol	43	5.340	5.341	-0.001	95	382949	1250.0	1189.5	
57 Benzene	78	5.517	5.511	0.006	96	1024607	50.0	52.7	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	331930	50.0	52.0	
59 n-Heptane	43	5.620	5.620	0.000	92	418440	50.0	46.1	
62 Trichloroethene	95	6.040	6.040	0.000	96	250471	50.0	51.7	
64 Methylcyclohexane	83	6.198	6.198	0.000	89	437108	50.0	50.0	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	98	265638	50.0	51.9	
66 1,4-Dioxane	88	6.356	6.356	0.006	94	55336	1000.0	957.8	M
67 Dibromomethane	93	6.381	6.381	0.000	92	158150	50.0	53.9	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	310548	50.0	51.5	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	188780	50.0	51.9	
72 cis-1,3-Dichloropropene	75	6.879	6.880	-0.001	97	415822	50.0	50.9	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.977	0.000	95	1406636	250.0	234.3	
74 Toluene	92	7.190	7.190	0.000	99	656102	50.0	49.7	
77 trans-1,3-Dichloropropene	75	7.391	7.391	0.000	96	398471	50.0	48.9	
75 Ethyl methacrylate	69	7.397	7.397	0.000	89	335649	50.0	44.7	
79 1,1,2-Trichloroethane	83	7.591	7.592	-0.001	91	196287	50.0	49.8	
81 Tetrachloroethene	166	7.725	7.725	0.000	97	309440	50.0	53.2	
82 1,3-Dichloropropane	76	7.762	7.756	0.006	96	428649	50.0	50.1	
80 2-Hexanone	43	7.768	7.768	0.000	94	1121966	250.0	235.1	
83 Chlorodibromomethane	129	8.005	8.005	0.000	90	254607	50.0	51.0	
84 Ethylene Dibromide	107	8.139	8.139	0.000	99	246633	50.0	50.4	
87 Chlorobenzene	112	8.607	8.607	0.000	97	742106	50.0	50.1	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1184815	50.0	49.7	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	95	236067	50.0	49.2	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	479076	50.0	48.9	
91 o-Xylene	106	9.222	9.222	0.000	95	445657	50.0	48.5	
92 Styrene	104	9.240	9.240	0.000	94	773928	50.0	46.8	
95 Bromoform	173	9.495	9.496	-0.001	99	187079	50.0	54.0	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1105137	50.0	45.8	
97 1,1,2,2-Tetrachloroethane	83	9.915	9.909	0.006	94	309128	50.0	47.8	
101 Bromobenzene	156	9.946	9.946	0.000	89	334948	50.0	48.6	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	73	102165	50.0	44.4	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	81	101504	50.0	48.8	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1356568	50.0	47.0	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	286922	50.0	47.0	
102 1,3,5-Trimethylbenzene	105	10.146	10.147	-0.001	94	933093	50.0	45.9	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	316353	50.0	47.9	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	220429	50.0	45.1	
107 1,2,4-Trimethylbenzene	105	10.511	10.512	-0.001	95	950320	50.0	45.7	
109 sec-Butylbenzene	105	10.663	10.664	-0.001	94	1194164	50.0	45.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1047459	50.0	46.1	
111 1,3-Dichlorobenzene	146	10.809	10.810	-0.001	98	600540	50.0	47.8	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	95	607428	50.0	47.2	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	899821	50.0	45.0	
116 1,2-Dichlorobenzene	146	11.229	11.229	0.000	99	542520	50.0	46.6	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.893	-0.007	94	49589	50.0	38.6	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	366033	50.0	46.4	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	225737	50.0	51.6	
121 Naphthalene	128	12.811	12.811	0.000	97	893867	50.0	43.9	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	95	354340	50.0	48.2	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

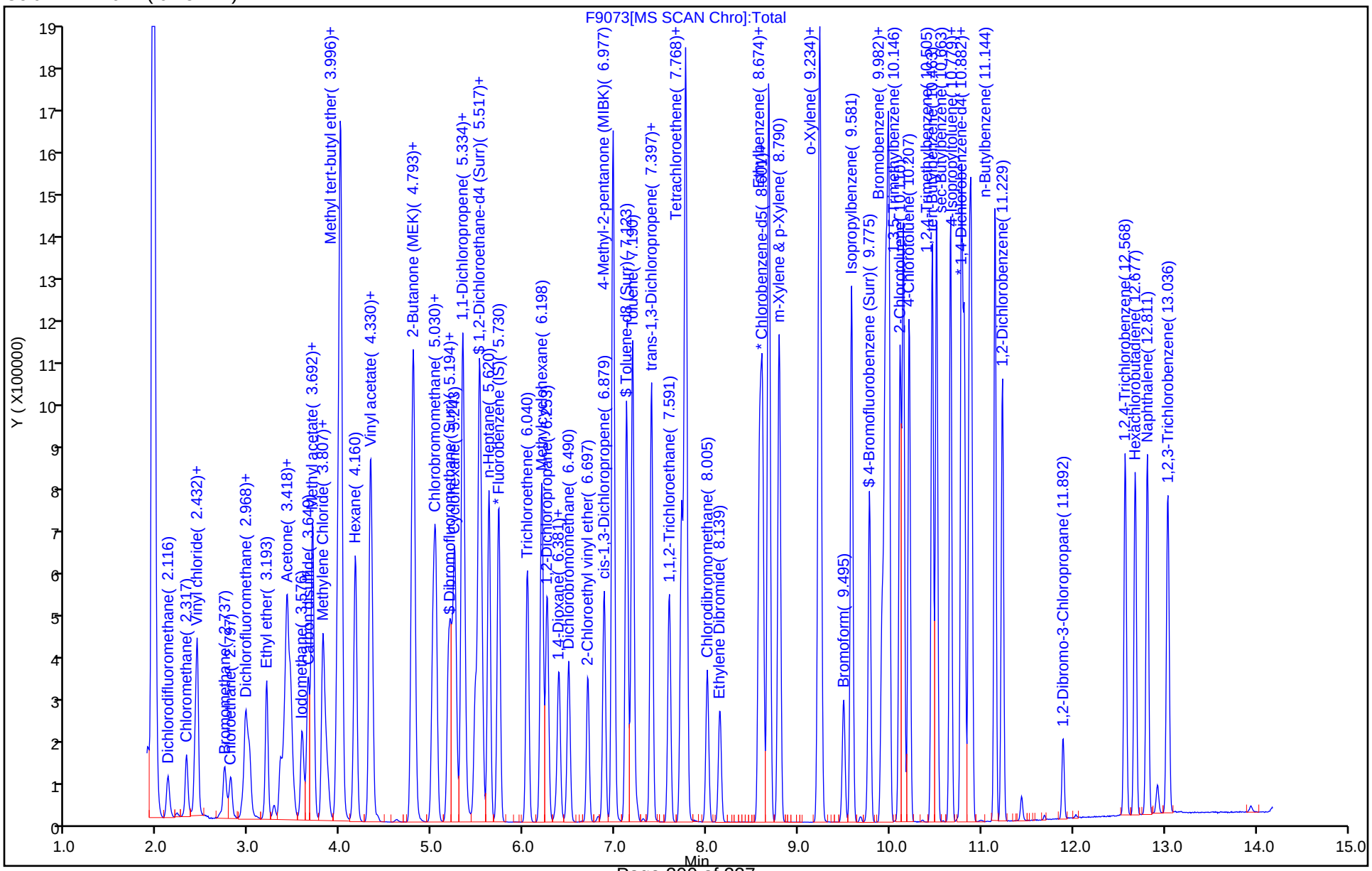
Report Date: 15-Mar-2019 12:08:55 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9073.D

Injection Date:	15-Mar-2019 10:02:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	LCS 480-463180/1-A			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-463418/1-A

Matrix: Solid | Lab File ID: F9102.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/18/2019 10:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	50.7		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	46.0		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	50.2		5.0	1.1
79-00-5	1,1,2-Trichloroethane	50.1		5.0	0.65
75-34-3	1,1-Dichloroethane	52.0		5.0	0.61
75-35-4	1,1-Dichloroethene	50.2		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	44.4		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	39.2		5.0	2.5
95-50-1	1,2-Dichlorobenzene	44.7		5.0	0.39
107-06-2	1,2-Dichloroethane	52.5		5.0	0.25
78-87-5	1,2-Dichloropropane	52.2		5.0	2.5
541-73-1	1,3-Dichlorobenzene	45.6		5.0	0.26
106-46-7	1,4-Dichlorobenzene	45.5		5.0	0.70
78-93-3	2-Butanone (MEK)	275		25	1.8
591-78-6	2-Hexanone	253		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	248		25	1.6
67-64-1	Acetone	284		25	4.2
71-43-2	Benzene	52.1		5.0	0.25
75-25-2	Bromoform	53.8		5.0	2.5
74-83-9	Bromomethane	53.9		5.0	0.45
75-15-0	Carbon disulfide	47.7		5.0	2.5
56-23-5	Carbon tetrachloride	52.0		5.0	0.48
108-90-7	Chlorobenzene	48.8		5.0	0.66
124-48-1	Dibromochloromethane	50.8		5.0	0.64
75-00-3	Chloroethane	47.2		5.0	1.1
67-66-3	Chloroform	52.2		5.0	0.31
74-87-3	Chloromethane	48.5		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	52.2		5.0	0.64
110-82-7	Cyclohexane	47.1		5.0	0.70
75-27-4	Bromodichloromethane	52.3		5.0	0.67
75-71-8	Dichlorodifluoromethane	43.6		5.0	0.41
100-41-4	Ethylbenzene	47.9		5.0	0.35
106-93-4	1,2-Dibromoethane	50.4		5.0	0.64
98-82-8	Isopropylbenzene	43.0		5.0	0.75
79-20-9	Methyl acetate	99.0		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 480-463418/1-A

Matrix: Solid | Lab File ID: F9102.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/18/2019 10:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463385 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	51.4		5.0	0.49
108-87-2	Methylcyclohexane	47.9		5.0	0.76
75-09-2	Methylene Chloride	48.1		5.0	2.3
127-18-4	Tetrachloroethene	50.9		5.0	0.67
108-88-3	Toluene	48.0		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	52.1		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	48.9		5.0	2.2
79-01-6	Trichloroethene	50.7		5.0	1.1
75-69-4	Trichlorofluoromethane	53.8		5.0	0.47
75-01-4	Vinyl chloride	53.6		5.0	0.61
1330-20-7	Xylenes, Total	94.3		10	0.84
10061-01-5	cis-1,3-Dichloropropene	51.1		5.0	0.72
100-42-5	Styrene	45.8		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		64-126
460-00-4	4-Bromofluorobenzene (Surr)	110		72-126
2037-26-5	Toluene-d8 (Surr)	101		71-125
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9102.D
Lims ID: LCS 480-463418/1-A
Client ID:
Sample Type: LCS
Inject. Date: 18-Mar-2019 10:31:30 ALS Bottle#: 3 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 480-0079450-006
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 12:11:26 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 18-Mar-2019 12:13:29

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	152838	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	85	330243	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.864	10.864	0.000	93	343323	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	186597	50.0	52.8	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	97	120702	50.0	53.0	
$ 5 Toluene-d8 (Surr)	98	7.123	7.123	0.000	92	783556	50.0	50.3	
$ 6 4-Bromofluorobenzene (Surr	174	9.775	9.775	0.000	96	288907	50.0	55.1	
10 Dichlorodifluoromethane	85	2.110	2.116	-0.006	99	158262	50.0	43.6	
12 Chloromethane	50	2.317	2.317	0.000	99	196314	50.0	48.5	
13 Vinyl chloride	62	2.408	2.414	-0.006	98	197266	50.0	53.6	
151 Butadiene	54	2.432	2.435	-0.001	89	185722	50.0	50.8	
14 Bromomethane	94	2.730	2.731	-0.001	90	115370	50.0	53.9	
15 Chloroethane	64	2.797	2.798	-0.001	99	96504	50.0	47.2	
16 Dichlorofluoromethane	67	2.956	2.956	0.000	97	248509	50.0	53.0	
17 Trichlorofluoromethane	101	2.992	2.998	-0.006	98	266730	50.0	53.8	
18 Ethyl ether	59	3.187	3.193	-0.006	92	225288	50.0	54.8	
20 Acrolein	56	3.339	3.339	0.000	100	151564	250.0	196.5	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	91	165496	50.0	50.2	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	176151	50.0	50.2	
23 Acetone	43	3.454	3.455	-0.001	100	475933	250.0	284.4	
25 Iodomethane	142	3.576	3.576	0.000	98	301195	50.0	50.6	
26 Carbon disulfide	76	3.643	3.643	0.000	99	564188	50.0	47.7	
27 Methyl acetate	43	3.686	3.686	0.000	99	456374	100.0	99.0	
28 3-Chloro-1-propene	41	3.698	3.698	0.000	90	356162	50.0	47.8	
30 Methylene Chloride	84	3.801	3.807	-0.006	95	224497	50.0	48.1	
31 2-Methyl-2-propanol	59	3.838	3.838	0.000	99	278738	500.0	460.4	
32 Methyl tert-butyl ether	73	3.965	3.972	-0.007	96	665477	50.0	51.4	
33 Acrylonitrile	53	3.996	3.996	0.000	99	1066404	500.0	558.8	
34 trans-1,2-Dichloroethene	96	4.002	4.008	-0.006	99	215081	50.0	52.1	
35 Hexane	57	4.160	4.160	0.000	92	372515	50.0	45.5	
37 Vinyl acetate	43	4.318	4.325	-0.007	97	1153587	100.0	124.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.337	4.343	-0.006	96	395206	50.0	52.0	
43 2-Butanone (MEK)	43	4.781	4.781	0.000	100	758681	250.0	275.0	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	82	246817	50.0	52.2	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	59	286789	50.0	49.4	
48 Chlorobromomethane	128	5.006	5.006	0.000	95	121340	50.0	53.8	
49 Tetrahydrofuran	42	5.030	5.030	0.000	89	189283	100.0	101.5	
50 Chloroform	83	5.036	5.036	0.000	93	365339	50.0	52.2	
51 1,1,1-Trichloroethane	97	5.200	5.207	-0.007	98	285749	50.0	50.7	
52 Cyclohexane	56	5.243	5.243	0.000	90	360512	50.0	47.1	
54 1,1-Dichloropropene	75	5.322	5.322	0.000	98	306595	50.0	51.2	
55 Carbon tetrachloride	117	5.340	5.340	0.000	91	263090	50.0	52.0	
53 Isobutyl alcohol	43	5.340	5.340	0.000	95	369383	1250.0	1276.2	
57 Benzene	78	5.511	5.511	0.000	96	911836	50.0	52.1	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	301770	50.0	52.5	
59 n-Heptane	43	5.620	5.620	0.000	93	372632	50.0	45.6	
62 Trichloroethene	95	6.034	6.040	-0.006	96	220527	50.0	50.7	
64 Methylcyclohexane	83	6.192	6.198	-0.006	89	376947	50.0	47.9	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	97	240201	50.0	52.2	
66 1,4-Dioxane	88	6.350	6.356	-0.006	94	56300	1000.0	1067.6	
67 Dibromomethane	93	6.381	6.381	0.000	92	141534	50.0	53.7	
68 Dichlorobromomethane	83	6.490	6.490	0.000	99	283667	50.0	52.3	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	174721	50.0	53.4	
72 cis-1,3-Dichloropropene	75	6.873	6.874	-0.001	96	375236	50.0	51.1	
73 4-Methyl-2-pentanone (MIBK	43	6.971	6.971	0.000	96	1360952	250.0	248.4	
74 Toluene	92	7.184	7.190	-0.006	99	578854	50.0	48.0	
77 trans-1,3-Dichloropropene	75	7.391	7.391	-0.001	96	363604	50.0	48.9	
75 Ethyl methacrylate	69	7.397	7.397	0.000	89	309872	50.0	45.2	
79 1,1,2-Trichloroethane	83	7.585	7.585	0.000	91	180356	50.0	50.1	
81 Tetrachloroethene	166	7.719	7.719	0.000	97	270308	50.0	50.9	
82 1,3-Dichloropropane	76	7.756	7.756	0.000	95	396054	50.0	50.8	
80 2-Hexanone	43	7.768	7.768	0.000	95	1101177	250.0	252.7	
83 Chlorodibromomethane	129	7.999	8.005	-0.006	90	231763	50.0	50.8	
84 Ethylene Dibromide	107	8.139	8.139	0.000	99	224876	50.0	50.4	
87 Chlorobenzene	112	8.601	8.601	0.000	96	660448	50.0	48.8	
88 Ethylbenzene	91	8.674	8.674	0.000	98	1043845	50.0	47.9	
89 1,1,1,2-Tetrachloroethane	131	8.680	8.680	0.000	96	213121	50.0	48.7	
90 m-Xylene & p-Xylene	106	8.790	8.790	0.000	99	423281	50.0	47.4	
91 o-Xylene	106	9.222	9.222	0.000	96	394108	50.0	46.9	
92 Styrene	104	9.240	9.240	0.000	95	691470	50.0	45.8	
95 Bromoform	173	9.489	9.496	-0.007	99	170069	50.0	53.8	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	968007	50.0	43.0	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	95	277705	50.0	46.0	
101 Bromobenzene	156	9.946	9.946	0.000	90	303892	50.0	47.3	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	71	95300	50.0	44.3	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	83	93385	50.0	48.1	
99 N-Propylbenzene	91	9.988	9.982	0.006	98	1210085	50.0	44.9	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	255818	50.0	44.9	
102 1,3,5-Trimethylbenzene	105	10.140	10.140	0.000	95	825421	50.0	43.5	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	280616	50.0	45.5	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	191937	50.0	42.1	
107 1,2,4-Trimethylbenzene	105	10.505	10.505	0.000	96	849928	50.0	43.8	
109 sec-Butylbenzene	105	10.657	10.658	-0.001	94	1047613	50.0	43.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	915104	50.0	43.1	
111 1,3-Dichlorobenzene	146	10.809	10.810	-0.001	98	535732	50.0	45.6	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	96	546949	50.0	45.5	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	786480	50.0	42.1	
116 1,2-Dichlorobenzene	146	11.229	11.223	0.006	99	486271	50.0	44.7	
117 1,2-Dibromo-3-Chloropropan	75	11.886	11.886	0.000	89	47033	50.0	39.2	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	92	326606	50.0	44.4	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	198533	50.0	48.6	
121 Naphthalene	128	12.805	12.811	-0.006	97	810020	50.0	42.6	
122 1,2,3-Trichlorobenzene	180	13.030	13.030	0.000	95	313633	50.0	45.7	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

Report Date: 18-Mar-2019 12:13:31 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190318-79450.b\F9102.D

Injection Date: 18-Mar-2019 10:31:30 Instrument ID: HP5973F Operator ID: CDC

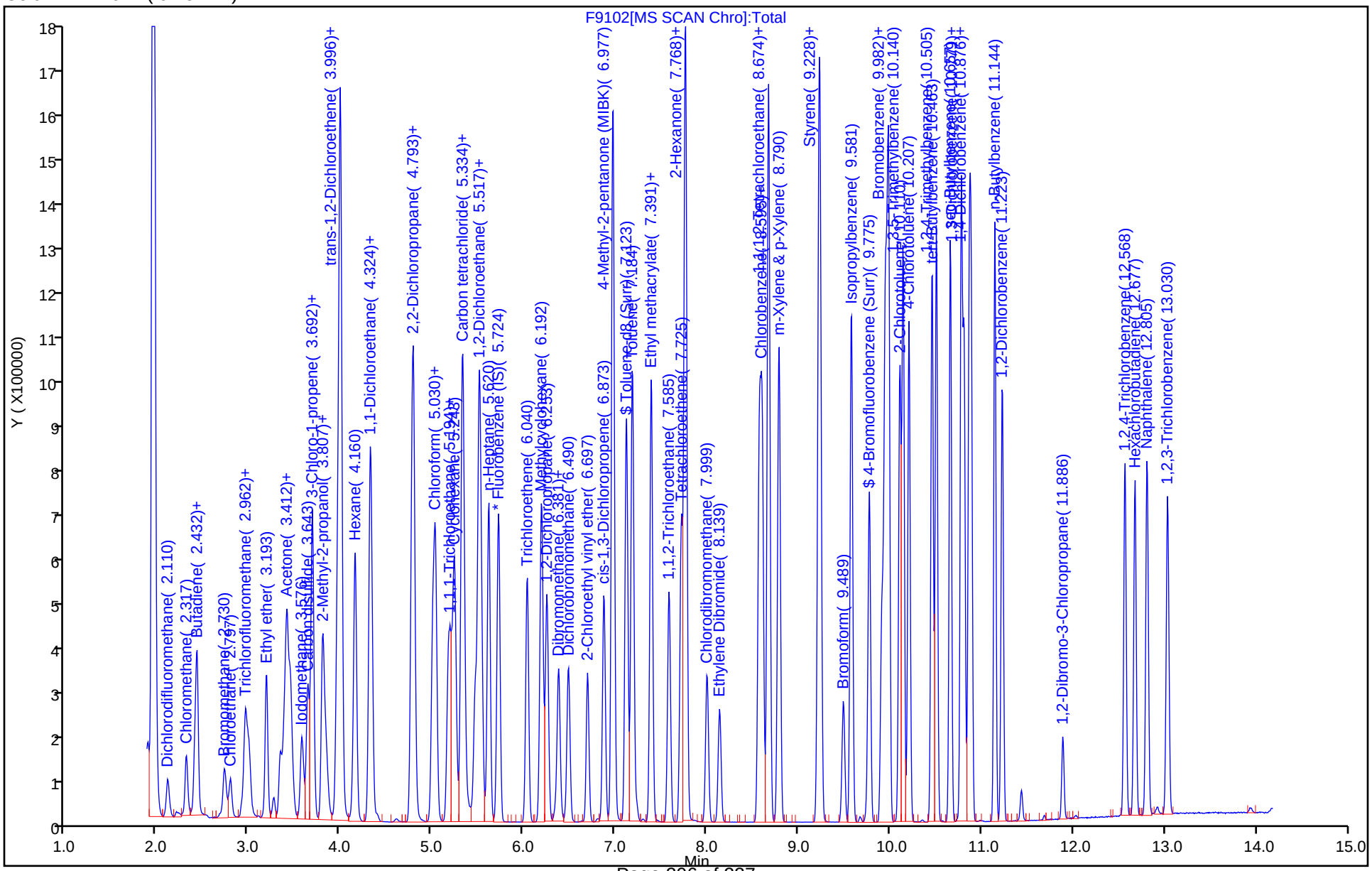
Lims ID: LCS 480-463418/1-A Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: F-8260 SOIL Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-463180/3-A

Matrix: Solid | Lab File ID: F9076.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 11:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	52.7		5.0	0.36
79-34-5	1,1,2,2-Tetrachloroethane	47.5		5.0	0.81
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	52.2		5.0	1.1
79-00-5	1,1,2-Trichloroethane	49.6		5.0	0.65
75-34-3	1,1-Dichloroethane	52.5		5.0	0.61
75-35-4	1,1-Dichloroethene	51.4		5.0	0.61
120-82-1	1,2,4-Trichlorobenzene	47.7		5.0	0.30
96-12-8	1,2-Dibromo-3-Chloropropane	39.9		5.0	2.5
95-50-1	1,2-Dichlorobenzene	46.6		5.0	0.39
107-06-2	1,2-Dichloroethane	50.9		5.0	0.25
78-87-5	1,2-Dichloropropane	51.3		5.0	2.5
541-73-1	1,3-Dichlorobenzene	48.0		5.0	0.26
106-46-7	1,4-Dichlorobenzene	47.9		5.0	0.70
78-93-3	2-Butanone (MEK)	264		25	1.8
591-78-6	2-Hexanone	248		25	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	241		25	1.6
67-64-1	Acetone	283		25	4.2
71-43-2	Benzene	52.6		5.0	0.25
75-25-2	Bromoform	54.0		5.0	2.5
74-83-9	Bromomethane	50.3		5.0	0.45
75-15-0	Carbon disulfide	48.6		5.0	2.5
56-23-5	Carbon tetrachloride	53.9		5.0	0.48
108-90-7	Chlorobenzene	50.5		5.0	0.66
124-48-1	Dibromochloromethane	50.3		5.0	0.64
75-00-3	Chloroethane	44.4		5.0	1.1
67-66-3	Chloroform	52.4		5.0	0.31
74-87-3	Chloromethane	47.2		5.0	0.30
156-59-2	cis-1,2-Dichloroethene	52.9		5.0	0.64
110-82-7	Cyclohexane	48.4		5.0	0.70
75-27-4	Bromodichloromethane	50.8		5.0	0.67
75-71-8	Dichlorodifluoromethane	46.7		5.0	0.41
100-41-4	Ethylbenzene	50.1		5.0	0.35
106-93-4	1,2-Dibromoethane	49.8		5.0	0.64
98-82-8	Isopropylbenzene	45.7		5.0	0.75
79-20-9	Methyl acetate	94.5		25	3.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo | Job No.: 480-150235-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 480-463180/3-A

Matrix: Solid | Lab File ID: F9076.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(g) | Date Analyzed: 03/15/2019 11:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: ZB-624 (30) VOA ID: 0.25(mm)

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

Analysis Batch No.: 463140 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	49.8		5.0	0.49
108-87-2	Methylcyclohexane	50.5		5.0	0.76
75-09-2	Methylene Chloride	46.7		5.0	2.3
127-18-4	Tetrachloroethene	54.0		5.0	0.67
108-88-3	Toluene	50.2		5.0	0.38
156-60-5	trans-1,2-Dichloroethene	54.8		5.0	0.52
10061-02-6	trans-1,3-Dichloropropene	48.6		5.0	2.2
79-01-6	Trichloroethene	53.3		5.0	1.1
75-69-4	Trichlorofluoromethane	50.3		5.0	0.47
75-01-4	Vinyl chloride	50.8		5.0	0.61
1330-20-7	Xylenes, Total	98.2		10	0.84
10061-01-5	cis-1,3-Dichloropropene	50.5		5.0	0.72
100-42-5	Styrene	47.3		5.0	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		64-126
460-00-4	4-Bromofluorobenzene (Surr)	111		72-126
2037-26-5	Toluene-d8 (Surr)	102		71-125
1868-53-7	Dibromofluoromethane (Surr)	106		60-140

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9076.D
Lims ID: LCSD 480-463180/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 15-Mar-2019 11:26:30 ALS Bottle#: 1 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD 480-463180/3-A
Misc. Info.: 480-0079401-008
Operator ID: CDC Instrument ID: HP5973F

Method: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F-8260 SOIL.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Mar-2019 08:29:44 Calib Date: 11-Jan-2019 17:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromna\Buffalo\ChromData\HP5973F\20190111-77924.b\F7827.D

Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
Process Host: CTX0331

First Level Reviewer: cwiklinc Date: 15-Mar-2019 12:14:59

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
* 153 Fluorobenzene (IS)	70	5.724	5.724	0.000	99	168417	50.0	50.0	
* 2 Chlorobenzene-d5	82	8.571	8.571	0.000	84	359630	50.0	50.0	
* 3 1,4-Dichlorobenzene-d4	152	10.865	10.864	0.000	93	370690	50.0	50.0	
$ 154 Dibromofluoromethane (Surr	113	5.176	5.182	0.000	95	207487	50.0	53.2	
$ 4 1,2-Dichloroethane-d4 (Sur	67	5.468	5.468	0.000	98	134244	50.0	53.5	
$ 5 Toluene-d8 (Surr)	98	7.123	7.128	0.000	92	862909	50.0	50.9	
$ 6 4-Bromofluorobenzene (Surr	174	9.776	9.782	0.000	96	315934	50.0	55.4	
10 Dichlorodifluoromethane	85	2.110	2.110	0.000	99	186732	50.0	46.7	
12 Chloromethane	50	2.311	2.311	0.000	99	210813	50.0	47.2	
13 Vinyl chloride	62	2.408	2.408	0.000	98	205751	50.0	50.8	
151 Butadiene	54	2.433	2.435	0.000	88	198019	50.0	49.2	
14 Bromomethane	94	2.731	2.725	0.006	90	118631	50.0	50.3	
15 Chloroethane	64	2.798	2.792	0.006	99	100205	50.0	44.4	
16 Dichlorofluoromethane	67	2.956	2.950	0.006	97	251509	50.0	48.6	
17 Trichlorofluoromethane	101	2.992	2.992	0.000	99	274820	50.0	50.3	
18 Ethyl ether	59	3.193	3.187	0.006	91	232911	50.0	51.4	
20 Acrolein	56	3.339	3.339	0.000	99	158288	250.0	186.3	
21 1,1,2-Trichloro-1,2,2-trif	101	3.394	3.394	0.000	91	189413	50.0	52.2	
22 1,1-Dichloroethene	96	3.418	3.418	0.000	98	198726	50.0	51.4	
23 Acetone	43	3.455	3.449	0.006	100	521886	250.0	283.0	
25 Iodomethane	142	3.576	3.576	0.000	98	339823	50.0	51.8	
26 Carbon disulfide	76	3.643	3.637	0.006	99	634287	50.0	48.6	
27 Methyl acetate	43	3.686	3.680	0.006	98	480357	100.0	94.5	
28 3-Chloro-1-propene	41	3.698	3.692	0.006	90	386882	50.0	47.1	
30 Methylene Chloride	84	3.808	3.801	0.007	94	239969	50.0	46.7	
31 2-Methyl-2-propanol	59	3.838	3.838	0.000	99	328844	500.0	492.9	
32 Methyl tert-butyl ether	73	3.966	3.966	0.000	95	710744	50.0	49.8	
33 Acrylonitrile	53	3.996	3.996	0.000	100	1132151	500.0	538.4	
34 trans-1,2-Dichloroethene	96	4.002	4.002	0.000	99	249190	50.0	54.8	
35 Hexane	57	4.160	4.160	0.000	91	413167	50.0	45.8	
37 Vinyl acetate	43	4.325	4.319	0.006	97	1206881	100.0	118.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
39 1,1-Dichloroethane	63	4.343	4.337	0.006	96	438865	50.0	52.5	
43 2-Butanone (MEK)	43	4.781	4.775	0.006	100	803590	250.0	264.4	
44 2,2-Dichloropropane	77	4.799	4.799	0.000	61	324645	50.0	50.7	
45 cis-1,2-Dichloroethene	96	4.799	4.799	0.000	81	275731	50.0	52.9	
48 Chlorobromomethane	128	5.006	5.006	0.000	93	133089	50.0	53.5	
49 Tetrahydrofuran	42	5.030	5.024	0.006	89	202535	100.0	98.6	
50 Chloroform	83	5.036	5.036	0.000	93	404168	50.0	52.4	
51 1,1,1-Trichloroethane	97	5.207	5.207	0.000	98	327293	50.0	52.7	
52 Cyclohexane	56	5.243	5.243	0.000	89	408172	50.0	48.4	
54 1,1-Dichloropropene	75	5.322	5.322	0.000	98	352237	50.0	53.3	
55 Carbon tetrachloride	117	5.341	5.341	0.000	90	300845	50.0	53.9	
53 Isobutyl alcohol	43	5.341	5.341	0.000	95	407051	1250.0	1276.2	
57 Benzene	78	5.511	5.511	0.000	96	1014344	50.0	52.6	
58 1,2-Dichloroethane	62	5.535	5.535	0.000	97	322087	50.0	50.9	
59 n-Heptane	43	5.620	5.620	0.000	92	416100	50.0	46.2	
62 Trichloroethene	95	6.040	6.040	0.000	97	255723	50.0	53.3	
64 Methylcyclohexane	83	6.198	6.198	0.000	89	438042	50.0	50.5	
65 1,2-Dichloropropane	63	6.253	6.253	0.000	97	260363	50.0	51.3	
66 1,4-Dioxane	88	6.351	6.355	0.000	94	61324	1000.0	1067.8	
67 Dibromomethane	93	6.381	6.381	0.000	92	153701	50.0	52.9	
68 Dichlorobromomethane	83	6.490	6.490	0.000	100	303856	50.0	50.8	
69 2-Chloroethyl vinyl ether	63	6.697	6.697	0.000	91	189053	50.0	52.4	
72 cis-1,3-Dichloropropene	75	6.880	6.880	0.000	97	408443	50.0	50.5	
73 4-Methyl-2-pentanone (MIBK	43	6.977	6.982	0.000	95	1438826	250.0	241.1	
74 Toluene	92	7.190	7.195	0.000	99	659181	50.0	50.2	
77 trans-1,3-Dichloropropene	75	7.391	7.396	0.000	97	393345	50.0	48.6	
75 Ethyl methacrylate	69	7.397	7.402	0.000	90	338238	50.0	45.3	
79 1,1,2-Trichloroethane	83	7.592	7.597	0.000	91	194100	50.0	49.6	
81 Tetrachloroethene	166	7.725	7.731	0.000	98	312366	50.0	54.0	
82 1,3-Dichloropropane	76	7.762	7.761	0.006	95	425304	50.0	50.0	
80 2-Hexanone	43	7.768	7.773	0.000	94	1178999	250.0	248.5	
83 Chlorodibromomethane	129	8.005	8.011	0.000	90	249651	50.0	50.3	
84 Ethylene Dibromide	107	8.145	8.145	0.006	99	242275	50.0	49.8	
87 Chlorobenzene	112	8.608	8.614	0.001	96	744073	50.0	50.5	
88 Ethylbenzene	91	8.674	8.680	0.000	98	1188843	50.0	50.1	
89 1,1,1,2-Tetrachloroethane	131	8.681	8.687	0.000	96	232397	50.0	48.7	
90 m-Xylene & p-Xylene	106	8.790	8.796	0.000	99	484209	50.0	49.8	
91 o-Xylene	106	9.222	9.228	0.000	96	442555	50.0	48.4	
92 Styrene	104	9.240	9.247	0.000	95	777000	50.0	47.3	
95 Bromoform	173	9.490	9.502	-0.006	99	185764	50.0	54.0	
94 Isopropylbenzene	105	9.581	9.581	0.000	95	1111834	50.0	45.7	
97 1,1,2,2-Tetrachloroethane	83	9.909	9.909	0.000	94	309556	50.0	47.5	
101 Bromobenzene	156	9.946	9.946	0.000	94	337478	50.0	48.6	
98 trans-1,4-Dichloro-2-buten	53	9.958	9.958	0.000	72	104898	50.0	45.2	
100 1,2,3-Trichloropropane	110	9.970	9.970	0.000	84	103296	50.0	49.2	
99 N-Propylbenzene	91	9.988	9.988	0.000	98	1383470	50.0	47.6	
103 2-Chlorotoluene	126	10.110	10.110	0.000	98	293961	50.0	47.7	
102 1,3,5-Trimethylbenzene	105	10.147	10.147	0.000	94	947826	50.0	46.3	
105 4-Chlorotoluene	126	10.207	10.207	0.000	96	317555	50.0	47.7	
106 tert-Butylbenzene	134	10.463	10.463	0.000	91	223972	50.0	45.5	
107 1,2,4-Trimethylbenzene	105	10.512	10.512	0.000	95	964486	50.0	46.0	
109 sec-Butylbenzene	105	10.664	10.664	0.000	94	1215020	50.0	46.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/kg	OnCol Amt ug/kg	Flags
110 4-Isopropyltoluene	119	10.779	10.779	0.000	97	1069167	50.0	46.7	
111 1,3-Dichlorobenzene	146	10.810	10.810	0.000	98	608414	50.0	48.0	
113 1,4-Dichlorobenzene	146	10.889	10.889	0.000	97	621680	50.0	47.9	
115 n-Butylbenzene	91	11.144	11.144	0.000	97	926817	50.0	45.9	
116 1,2-Dichlorobenzene	146	11.230	11.229	0.001	99	546316	50.0	46.6	
117 1,2-Dibromo-3-Chloropropan	75	11.887	11.893	-0.006	90	51571	50.0	39.9	
119 1,2,4-Trichlorobenzene	180	12.568	12.568	0.000	94	378984	50.0	47.7	
120 Hexachlorobutadiene	225	12.677	12.677	0.000	94	236477	50.0	53.6	
121 Naphthalene	128	12.811	12.811	0.000	97	898511	50.0	43.8	
122 1,2,3-Trichlorobenzene	180	13.036	13.036	0.000	96	355268	50.0	48.0	

Reagents:

F 8260 IS/SS_00083 Amount Added: 1.00 Units: uL Run Reagent

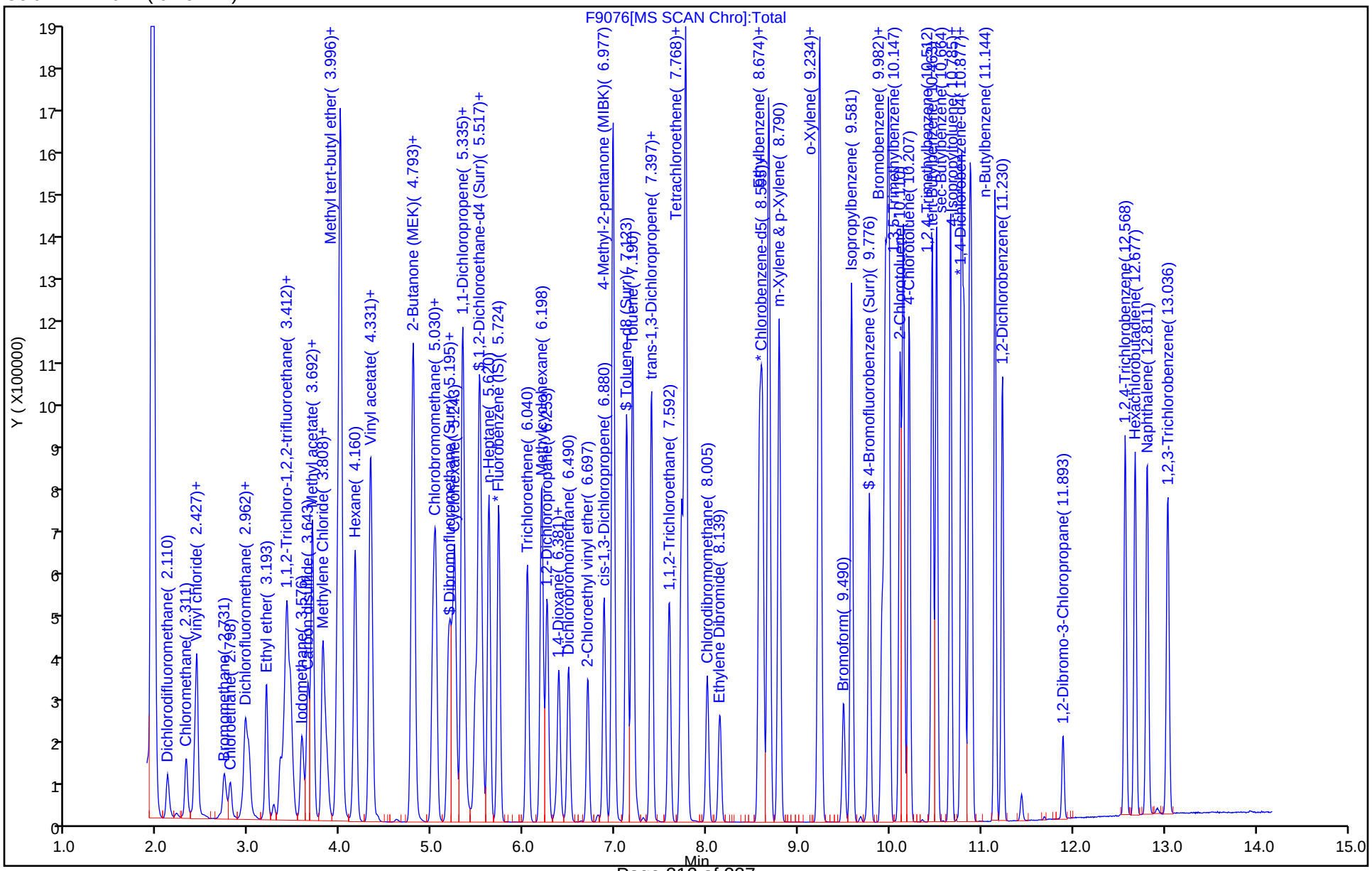
Report Date: 18-Mar-2019 09:41:24 Chrom Revision: 2.3 11-Feb-2019 16:31:10

TestAmerica Buffalo

Data File: \\chromna\Buffalo\ChromData\HP5973F\20190315-79401.b\F9076.D

Injection Date:	15-Mar-2019 11:26:30	Instrument ID:	HP5973F	Operator ID:	CDC
Lims ID:	LCSD 480-463180/3-A			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	F-8260 SOIL	Limit Group:	MV - 8260C ICAL		

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Instrument ID: HP5973F Start Date: 01/11/2019 10:24

Analysis Batch Number: 454682 End Date: 01/11/2019 19:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-454682/4		01/11/2019 10:24	1	F7811.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/6		01/11/2019 11:17	1	F7813.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/7		01/11/2019 11:43	1	F7814.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/8		01/11/2019 12:09	1	F7815.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/9		01/11/2019 12:35	1	F7816.D	ZB-624 (30) VOA 0.25(mm)
ICIS 480-454682/10		01/11/2019 13:01	1	F7817.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/11		01/11/2019 13:27	1	F7818.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/12		01/11/2019 13:52	1	F7819.D	ZB-624 (30) VOA 0.25(mm)
IC 480-454682/14		01/11/2019 14:44	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/15		01/11/2019 15:10	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/16		01/11/2019 15:36	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/17		01/11/2019 16:01	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/18		01/11/2019 16:27	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/19		01/11/2019 16:53	1		ZB-624 (30) VOA 0.25(mm)
IC 480-454682/20		01/11/2019 17:19	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-454682/22		01/11/2019 18:11	1		ZB-624 (30) VOA 0.25(mm)
MDLV 480-454682/23		01/11/2019 18:37	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-454682/24		01/11/2019 19:03	1		ZB-624 (30) VOA 0.25(mm)
ICV 480-454682/25		01/11/2019 19:29	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Instrument ID: HP5973F Start Date: 03/15/2019 08:31

Analysis Batch Number: 463140 End Date: 03/15/2019 20:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-463140/2		03/15/2019 08:31	1	F9070.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-463140/3		03/15/2019 09:00	1	F9071.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-463140/4		03/15/2019 09:36	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-463180/1-A		03/15/2019 10:02	1	F9073.D	ZB-624 (30) VOA 0.25(mm)
RL 480-463140/6		03/15/2019 10:28	1		ZB-624 (30) VOA 0.25(mm)
MB 480-463180/2-A		03/15/2019 10:54	1	F9075.D	ZB-624 (30) VOA 0.25(mm)
LCSD 480-463180/3-A		03/15/2019 11:26	1	F9076.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 12:18	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 12:44	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 13:10	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 13:36	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 14:02	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 14:28	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 14:53	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 15:19	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 15:45	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 16:11	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 16:37	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 17:03	1		ZB-624 (30) VOA 0.25(mm)
480-150235-1		03/15/2019 17:29	1	F9090.D	ZB-624 (30) VOA 0.25(mm)
480-150235-2		03/15/2019 17:55	1	F9091.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/15/2019 18:21	1		ZB-624 (30) VOA 0.25(mm)
480-150235-4		03/15/2019 18:48	1	F9093.D	ZB-624 (30) VOA 0.25(mm)
480-150235-5		03/15/2019 19:14	1	F9094.D	ZB-624 (30) VOA 0.25(mm)
480-150235-6		03/15/2019 19:40	1	F9095.D	ZB-624 (30) VOA 0.25(mm)
480-150235-7		03/15/2019 20:06	1	F9096.D	ZB-624 (30) VOA 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Instrument ID: HP5973F Start Date: 03/18/2019 09:08

Analysis Batch Number: 463385 End Date: 03/18/2019 17:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-463385/3		03/18/2019 09:08	1	F9099.D	ZB-624 (30) VOA 0.25(mm)
CCVIS 480-463385/4		03/18/2019 09:37	1	F9100.D	ZB-624 (30) VOA 0.25(mm)
CCV 480-463385/5		03/18/2019 10:03	1		ZB-624 (30) VOA 0.25(mm)
LCS 480-463418/1-A		03/18/2019 10:31	1	F9102.D	ZB-624 (30) VOA 0.25(mm)
RL 480-463385/7		03/18/2019 10:57	1		ZB-624 (30) VOA 0.25(mm)
MB 480-463418/2-A		03/18/2019 11:24	1	F9104.D	ZB-624 (30) VOA 0.25(mm)
480-150235-3		03/18/2019 12:07	1	F9105.D	ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 12:32	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 12:59	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 13:25	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 13:50	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 14:16	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 16:00	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 16:26	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 16:51	1		ZB-624 (30) VOA 0.25(mm)
ZZZZZ		03/18/2019 17:17	1		ZB-624 (30) VOA 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Batch Number: 463180 Batch Start Date: 03/15/19 08:56 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 03/15/19 11:56

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00148	GAS CORP mix 00331
LCS 480-463180/1		5035A_L, 8260C		25.14 g	30.14 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-463180/2		5035A_L, 8260C		25.12 g	30.12 g	5 g	5 mL		
LCSD 480-463180/3		5035A_L, 8260C		25.18 g	30.18 g	5 g	5 mL	2.5 uL	2.5 uL
480-150235-C-1	PDI-26-50-17.5-031219	5035A_L, 8260C	T	35.42 g	42.37 g	6.95 g	5 mL		
480-150235-C-2	PDI-29-50-17.5-031219	5035A_L, 8260C	T	35.24 g	42.56 g	7.32 g	5 mL		
480-150235-C-4	PDI-30-50-17.5-031219	5035A_L, 8260C	T	35.66 g	42.69 g	7.03 g	5 mL		
480-150235-C-5	PDI-31-50-17.5-031219	5035A_L, 8260C	T	35.14 g	41.53 g	6.39 g	5 mL		
480-150235-C-6	PDI-32-50-16-031219	5035A_L, 8260C	T	35.26 g	42.93 g	7.67 g	5 mL		
480-150235-C-7	PDI-28-50-16-031219	5035A_L, 8260C	T	35.10 g	42.54 g	7.44 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-463180/1		5035A_L, 8260C							
MB 480-463180/2		5035A_L, 8260C							
LCSD 480-463180/3		5035A_L, 8260C							
480-150235-C-1	PDI-26-50-17.5-031219	5035A_L, 8260C	T	TC					
480-150235-C-2	PDI-29-50-17.5-031219	5035A_L, 8260C	T	TC					
480-150235-C-4	PDI-30-50-17.5-031219	5035A_L, 8260C	T	TC					
480-150235-C-5	PDI-31-50-17.5-031219	5035A_L, 8260C	T	TC					
480-150235-C-6	PDI-32-50-16-031219	5035A_L, 8260C	T	TC					
480-150235-C-7	PDI-28-50-16-031219	5035A_L, 8260C	T	TC					

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Batch Number: 463180 Batch Start Date: 03/15/19 08:56 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 03/15/19 11:56

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00009

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Batch Number: 463418 Batch Start Date: 03/18/19 10:06 Batch Analyst: Cwiklinski, Charles D

Batch Method: 5035A_L Batch End Date: 03/18/19 13:06

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount	8260 CORP mix 00148	GAS CORP mix 00332
LCS 480-463418/1		5035A_L, 8260C		25.11 g	30.11 g	5 g	5 mL	2.5 uL	2.5 uL
MB 480-463418/2		5035A_L, 8260C		25.10 g	30.10 g	5 g	5 mL		
480-150235-D-3	PDI-27-50-17.5-0 31219	5035A_L, 8260C	T	35.28 g	42.39 g	7.11 g	5 mL		

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
LCS 480-463418/1		5035A_L, 8260C							
MB 480-463418/2		5035A_L, 8260C							
480-150235-D-3	PDI-27-50-17.5-0 31219	5035A_L, 8260C	T	TC original broke during purge					

Batch Notes	
Balance ID	b202613314
Batch Comment	sand_00009

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150235-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-26-50-17.5-031219	480-150235-1
PDI-29-50-17.5-031219	480-150235-2
PDI-27-50-17.5-031219	480-150235-3
PDI-30-50-17.5-031219	480-150235-4
PDI-31-50-17.5-031219	480-150235-5
PDI-32-50-16-031219	480-150235-6
PDI-28-50-16-031219	480-150235-7

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150235-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-150235-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 03/15/2019 11:03 End Date: 03/15/2019 11:03

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
ZZZZZZ			11:03																					
480-150235-1	1	T	11:03	X	X																			
480-150235-2	1	T	11:03	X	X																			
480-150235-3	1	T	11:03	X	X																			
480-150235-4	1	T	11:03	X	X																			
480-150235-5	1	T	11:03	X	X																			
480-150235-6	1	T	11:03	X	X																			
480-150235-7	1	T	11:03	X	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-150235-1

SDG No.:

Batch Number: 463201 Batch Start Date: 03/15/19 11:03 Batch Analyst: Cwiklinski, Charles D

Batch Method: Moisture Batch End Date: 03/16/19 00:00

Lab Sample ID	Client Sample ID	Method Chain	Basis	DishWeight	SampleMassWet	SampleMassDry			
480-150235-A-1	PDI-26-50-17.5-031219	Moisture	T	4.27 g	12.86 g	10.95 g			
480-150235-A-2	PDI-29-50-17.5-031219	Moisture	T	4.36 g	15.21 g	12.65 g			
480-150235-A-3	PDI-27-50-17.5-031219	Moisture	T	4.27 g	13.99 g	12.03 g			
480-150235-A-4	PDI-30-50-17.5-031219	Moisture	T	4.31 g	15.14 g	12.53 g			
480-150235-A-5	PDI-31-50-17.5-031219	Moisture	T	4.27 g	16.31 g	13.52 g			
480-150235-A-6	PDI-32-50-16-031219	Moisture	T	4.34 g	14.89 g	12.54 g			
480-150235-A-7	PDI-28-50-16-031219	Moisture	T	4.34 g	16.13 g	13.55 g			

Batch Notes	
Balance ID	b202613314
Batch Comment	pp-f-4a-18
Date samples were placed in the oven	03/15/2019
Oven Temp In	108 Degrees C
Time samples were place in the oven	11:20
Date samples were removed from oven	03/15/2019
Oven Temp Out	107 Degrees C
Time Samples were removed from oven	23:50
Oven ID	mv
Thermometer ID	mv
Temperature - Start - Uncorrected	108 Degrees C
Temperature - End - Uncorrected	107 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

222

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. ESTRADA	Lab PM: Mason, Becky C	Carrier Tracking No(s): NYC	COC No: 480-126561-28676.1
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: CDM Smith, Inc.				Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Latham	TAT Requested (days):			A - HCl M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 L - EDA Z - other (specify) Other:
State, Zip: NY, 12110				
Phone: 518-782-4526(Tel)	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

480-150235 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containe	Special Instructions/Note:
			Preservation Code:				F		
PDI-26-SO-17.5-031219	3/12/19	08:30	G	Solid			X		
PDI-29-SO-17.5-031219	3/12/19	09:15	G	Solid			X		
PDI-27-SO-17-031219	3/12/19	09:45	G	Solid			X		
PDI-30-SO-17.5-031219	3/12/19	10:30	G	Solid			X		
PDI-31-SO-17.5-031219	3/12/19	11:00	G	Solid			X		
PDI-32-SO-16-031219	3/12/19	11:30	G	Solid			X		
PDI-28-SO-16-031219	3/12/19	12:15	G	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IV

Special Instructions/QC Requirements: NYSDEC EDD

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/12/19 12:45			3/12/19 1245	
2		3/12/19 1644			3/12/19 1645	
3		3/13/19 1900			3-14-19 1000	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.3 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-150235-1

Login Number: 150235
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 3/14/19 0800
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Tel: (716)691-2600

TestAmerica Job ID: 480-150235-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
3/22/2019 11:51:47 AM
Anthony Strollo, Project Management Assistant I
anthony.strollo@testamericainc.com

Designee for

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 15
QC Sample Results 16
QC Association Summary 22
Lab Chronicle 23
Certification Summary 26
Method Summary 27
Sample Summary 28
Chain of Custody 29
Receipt Checklists 30

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

Glossary

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

Job ID: 480-150235-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-150235-1

Comments
No additional comments.

Receipt
The samples were received on 3/14/2019 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-463385 recovered above the upper control limit for 2-Butanone (MEK). The sample associated with this CCV was non-detect for the affected analyte; therefore, the data has been reported. The following sample is impacted: PDI-27-50-17.5-031219 (480-150235-3).

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

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-26-50-17.5-031219 — Lab Sample ID: 480-150235-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.34	J	4.6	0.34	ug/Kg	1	☼	8260C	Total/NA
Acetone	5.2	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	4.4	J	4.6	0.59	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5	J	4.6	0.62	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		4.6	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-29-50-17.5-031219 — Lab Sample ID: 480-150235-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	22	3.8	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	9.8		4.5	0.98	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-27-50-17.5-031219 — Lab Sample ID: 480-150235-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.9	J	22	3.7	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.9	J B	4.4	2.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-30-50-17.5-031219 — Lab Sample ID: 480-150235-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.39	J	4.7	0.34	ug/Kg	1	☼	8260C	Total/NA
Acetone	13	J	23	3.9	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	4.9		4.7	0.60	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	4.7	2.2	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	1.5	J	4.7	0.63	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		4.7	1.0	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-31-50-17.5-031219 — Lab Sample ID: 480-150235-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.3	J	25	4.3	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	3.7	J	5.1	0.65	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.6	J	5.1	2.3	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	21		5.1	1.1	ug/Kg	1	☼	8260C	Total/NA
Vinyl chloride	0.71	J	5.1	0.62	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-32-50-16-031219 — Lab Sample ID: 480-150235-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	21	3.5	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.2	J	4.2	1.9	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-28-50-16-031219 — Lab Sample ID: 480-150235-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.0	J	22	3.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.3	J	4.3	2.0	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	2.3	J	4.3	0.95	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-26-50-17.5-031219
Date Collected: 03/12/19 08:30
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-1
Matrix: Solid
Percent Solids: 77.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.34**	**J**	4.6	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2,2-Tetrachloroethane	ND		4.6	0.75	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.6	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1,2-Trichloroethane	ND		4.6	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1-Dichloroethane	ND		4.6	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,1-Dichloroethene	ND		4.6	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2,4-Trichlorobenzene	ND		4.6	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dibromo-3-Chloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichlorobenzene	ND		4.6	0.36	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichloroethane	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dichloropropane	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,3-Dichlorobenzene	ND		4.6	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,4-Dichlorobenzene	ND		4.6	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Acetone	**5.2**	**J**	23	3.9	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Benzene	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromoform	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromomethane	ND		4.6	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Carbon disulfide	ND		4.6	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Carbon tetrachloride	ND		4.6	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chlorobenzene	ND		4.6	0.61	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Dibromochloromethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloroethane	ND		4.6	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloroform	ND		4.6	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Chloromethane	ND		4.6	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
cis-1,2-Dichloroethene	**4.4**	**J**	4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Cyclohexane	ND		4.6	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Bromodichloromethane	ND		4.6	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Dichlorodifluoromethane	ND		4.6	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Ethylbenzene	ND		4.6	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
1,2-Dibromoethane	ND		4.6	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Isopropylbenzene	ND		4.6	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methyl tert-butyl ether	ND		4.6	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methylcyclohexane	ND		4.6	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Methylene Chloride	ND		4.6	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Tetrachloroethene	**1.5**	**J**	4.6	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Toluene	ND		4.6	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
trans-1,2-Dichloroethene	ND		4.6	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
trans-1,3-Dichloropropene	ND		4.6	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Trichloroethene	**29**		4.6	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Trichlorofluoromethane	ND		4.6	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Vinyl chloride	ND		4.6	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Xylenes, Total	ND		9.3	0.78	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
cis-1,3-Dichloropropene	ND		4.6	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1
Styrene	ND		4.6	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:29	1

Client Sample ID: PDI-26-50-17.5-031219

Lab Sample ID: 480-150235-1
Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.8

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		64 - 126	03/14/19 08:00	03/15/19 17:29	1
4-Bromofluorobenzene (Surr)	101		72 - 126	03/14/19 08:00	03/15/19 17:29	1
Toluene-d8 (Surr)	101		71 - 125	03/14/19 08:00	03/15/19 17:29	1
Dibromofluoromethane (Surr)	108		60 - 140	03/14/19 08:00	03/15/19 17:29	1

Client Sample ID: PDI-29-50-17.5-031219

Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.5	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2,2-Tetrachloroethane	ND		4.5	0.73	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1,2-Trichloroethane	ND		4.5	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1-Dichloroethane	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,1-Dichloroethene	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2,4-Trichlorobenzene	ND		4.5	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dibromo-3-Chloropropane	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichlorobenzene	ND		4.5	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichloroethane	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dichloropropane	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,3-Dichlorobenzene	ND		4.5	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,4-Dichlorobenzene	ND		4.5	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Acetone	**3.9**	**J**	22	3.8	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Benzene	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromoform	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromomethane	ND		4.5	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Carbon disulfide	ND		4.5	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Carbon tetrachloride	ND		4.5	0.43	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chlorobenzene	ND		4.5	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Dibromochloromethane	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloroethane	ND		4.5	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloroform	ND		4.5	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Chloromethane	ND		4.5	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
cis-1,2-Dichloroethene	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Cyclohexane	ND		4.5	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Bromodichloromethane	ND		4.5	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Dichlorodifluoromethane	ND		4.5	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Ethylbenzene	ND		4.5	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
1,2-Dibromoethane	ND		4.5	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Isopropylbenzene	ND		4.5	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methyl tert-butyl ether	ND		4.5	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methylcyclohexane	ND		4.5	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Methylene Chloride	ND		4.5	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Tetrachloroethene	ND		4.5	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1

Client Sample ID: PDI-29-50-17.5-031219

Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.5	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
trans-1,2-Dichloroethene	ND		4.5	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
trans-1,3-Dichloropropene	ND		4.5	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Trichloroethene	**9.8**		4.5	0.98	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Trichlorofluoromethane	ND		4.5	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Vinyl chloride	ND		4.5	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Xylenes, Total	ND		8.9	0.75	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
cis-1,3-Dichloropropene	ND		4.5	0.64	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1
Styrene	ND		4.5	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*64 - 126*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 08:00*	*03/15/19 17:55*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 140*	*03/14/19 08:00*	*03/15/19 17:55*	*1*

Client Sample ID: PDI-27-50-17.5-031219

Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.4	0.32	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2,2-Tetrachloroethane	ND		4.4	0.71	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.4	1.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1,2-Trichloroethane	ND		4.4	0.57	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1-Dichloroethane	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,1-Dichloroethene	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2,4-Trichlorobenzene	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dibromo-3-Chloropropane	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichlorobenzene	ND		4.4	0.34	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichloroethane	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dichloropropane	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,3-Dichlorobenzene	ND		4.4	0.23	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,4-Dichlorobenzene	ND		4.4	0.62	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Acetone	**4.9**	**J**	22	3.7	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Benzene	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromoform	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromomethane	ND		4.4	0.40	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Carbon disulfide	ND		4.4	2.2	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Carbon tetrachloride	ND		4.4	0.43	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chlorobenzene	ND		4.4	0.58	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Dibromochloromethane	ND		4.4	0.56	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloroethane	ND		4.4	1.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloroform	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Chloromethane	ND		4.4	0.27	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
cis-1,2-Dichloroethene	ND		4.4	0.56	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1

Client Sample ID: PDI-27-50-17.5-031219

Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 79.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		4.4	0.62	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Bromodichloromethane	ND		4.4	0.59	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Dichlorodifluoromethane	ND		4.4	0.36	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Ethylbenzene	ND		4.4	0.30	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
1,2-Dibromoethane	ND		4.4	0.57	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Isopropylbenzene	ND		4.4	0.66	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methyl acetate	ND		22	2.7	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methyl tert-butyl ether	ND		4.4	0.43	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methylcyclohexane	ND		4.4	0.67	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Methylene Chloride	**2.9**	**J B**	4.4	2.0	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Tetrachloroethene	ND		4.4	0.59	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Toluene	ND		4.4	0.33	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
trans-1,2-Dichloroethene	ND		4.4	0.45	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
trans-1,3-Dichloropropene	ND		4.4	1.9	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Trichloroethene	ND		4.4	0.97	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Trichlorofluoromethane	ND		4.4	0.42	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Vinyl chloride	ND		4.4	0.54	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Xylenes, Total	ND		8.8	0.74	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
cis-1,3-Dichloropropene	ND		4.4	0.63	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1
Styrene	ND		4.4	0.22	ug/Kg	☼	03/14/19 08:00	03/18/19 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 126*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/14/19 08:00*	*03/18/19 12:07*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 08:00*	*03/18/19 12:07*	*1*

Client Sample ID: PDI-30-50-17.5-031219

Lab Sample ID: 480-150235-4
Date Collected: 03/12/19 10:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 75.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.39**	**J**	4.7	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2,2-Tetrachloroethane	ND		4.7	0.76	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.7	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1,2-Trichloroethane	ND		4.7	0.61	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1-Dichloroethane	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,1-Dichloroethene	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2,4-Trichlorobenzene	ND		4.7	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dibromo-3-Chloropropane	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichlorobenzene	ND		4.7	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichloroethane	ND		4.7	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dichloropropane	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,3-Dichlorobenzene	ND		4.7	0.24	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,4-Dichlorobenzene	ND		4.7	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
2-Butanone (MEK)	ND		23	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
2-Hexanone	ND		23	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
4-Methyl-2-pentanone (MIBK)	ND		23	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Acetone	**13**	**J**	23	3.9	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1

Client Sample ID: PDI-30-50-17.5-031219

Lab Sample ID: 480-150235-4

Date Collected: 03/12/19 10:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 75.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		4.7	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromoform	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromomethane	ND		4.7	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Carbon disulfide	ND		4.7	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Carbon tetrachloride	ND		4.7	0.45	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chlorobenzene	ND		4.7	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Dibromochloromethane	ND		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloroethane	ND		4.7	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloroform	ND		4.7	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Chloromethane	ND		4.7	0.28	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
cis-1,2-Dichloroethene	**4.9**		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Cyclohexane	ND		4.7	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Bromodichloromethane	ND		4.7	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Dichlorodifluoromethane	ND		4.7	0.39	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Ethylbenzene	ND		4.7	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
1,2-Dibromoethane	ND		4.7	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Isopropylbenzene	ND		4.7	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methyl acetate	ND		23	2.8	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methyl tert-butyl ether	ND		4.7	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methylcyclohexane	ND		4.7	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Methylene Chloride	**2.6**	**J**	4.7	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Tetrachloroethene	**1.5**	**J**	4.7	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Toluene	ND		4.7	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
trans-1,2-Dichloroethene	ND		4.7	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
trans-1,3-Dichloropropene	ND		4.7	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Trichloroethene	**29**		4.7	1.0	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Trichlorofluoromethane	ND		4.7	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Vinyl chloride	ND		4.7	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Xylenes, Total	ND		9.4	0.79	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
cis-1,3-Dichloropropene	ND		4.7	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1
Styrene	ND		4.7	0.23	ug/Kg	☼	03/14/19 08:00	03/15/19 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 18:48*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*03/14/19 08:00*	*03/15/19 18:48*	*1*

Client Sample ID: PDI-31-50-17.5-031219

Lab Sample ID: 480-150235-5

Date Collected: 03/12/19 11:00
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.1	0.37	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2,2-Tetrachloroethane	ND		5.1	0.83	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.1	1.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1,2-Trichloroethane	ND		5.1	0.66	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1-Dichloroethane	ND		5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,1-Dichloroethene	ND		5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1

Client Sample ID: PDI-31-50-17.5-031219
Date Collected: 03/12/19 11:00
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-5
Matrix: Solid
Percent Solids: 76.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichlorobenzene	ND		5.1	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichloroethane	ND		5.1	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dichloropropane	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,3-Dichlorobenzene	ND		5.1	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,4-Dichlorobenzene	ND		5.1	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
2-Butanone (MEK)	ND		25	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
2-Hexanone	ND		25	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.7	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Acetone	**8.3**	**J**	25	4.3	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Benzene	ND		5.1	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromoform	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromomethane	ND		5.1	0.46	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Carbon disulfide	ND		5.1	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Carbon tetrachloride	ND		5.1	0.49	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chlorobenzene	ND		5.1	0.67	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Dibromochloromethane	ND		5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloroethane	ND		5.1	1.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloroform	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Chloromethane	ND		5.1	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
cis-1,2-Dichloroethene	**3.7**	**J**	5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Cyclohexane	ND		5.1	0.71	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Bromodichloromethane	ND		5.1	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Dichlorodifluoromethane	ND		5.1	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Ethylbenzene	ND		5.1	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
1,2-Dibromoethane	ND		5.1	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Isopropylbenzene	ND		5.1	0.77	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methyl acetate	ND		25	3.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methyl tert-butyl ether	ND		5.1	0.50	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methylcyclohexane	ND		5.1	0.77	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Methylene Chloride	**2.6**	**J**	5.1	2.3	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Tetrachloroethene	ND		5.1	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Toluene	ND		5.1	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
trans-1,2-Dichloroethene	ND		5.1	0.53	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
trans-1,3-Dichloropropene	ND		5.1	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Trichloroethene	**21**		5.1	1.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Trichlorofluoromethane	ND		5.1	0.48	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Vinyl chloride	**0.71**	**J**	5.1	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Xylenes, Total	ND		10	0.86	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
cis-1,3-Dichloropropene	ND		5.1	0.73	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1
Styrene	ND		5.1	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*64 - 126*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 19:14*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 140*	*03/14/19 08:00*	*03/15/19 19:14*	*1*

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-32-50-16-031219
Date Collected: 03/12/19 11:30
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-6
Matrix: Solid
Percent Solids: 77.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.2	0.30	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2,2-Tetrachloroethane	ND		4.2	0.68	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.2	0.96	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1,2-Trichloroethane	ND		4.2	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1-Dichloroethane	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,1-Dichloroethene	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2,4-Trichlorobenzene	ND		4.2	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dibromo-3-Chloropropane	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichlorobenzene	ND		4.2	0.33	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichloroethane	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dichloropropane	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,3-Dichlorobenzene	ND		4.2	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,4-Dichlorobenzene	ND		4.2	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
2-Butanone (MEK)	ND		21	1.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
2-Hexanone	ND		21	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
4-Methyl-2-pentanone (MIBK)	ND		21	1.4	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Acetone	**5.6**	**J**	21	3.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Benzene	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromoform	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromomethane	ND		4.2	0.38	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Carbon disulfide	ND		4.2	2.1	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Carbon tetrachloride	ND		4.2	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chlorobenzene	ND		4.2	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Dibromochloromethane	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloroethane	ND		4.2	0.95	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloroform	ND		4.2	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Chloromethane	ND		4.2	0.25	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
cis-1,2-Dichloroethene	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Cyclohexane	ND		4.2	0.59	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Bromodichloromethane	ND		4.2	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Dichlorodifluoromethane	ND		4.2	0.35	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Ethylbenzene	ND		4.2	0.29	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
1,2-Dibromoethane	ND		4.2	0.54	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Isopropylbenzene	ND		4.2	0.63	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methyl acetate	ND		21	2.5	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methyl tert-butyl ether	ND		4.2	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methylcyclohexane	ND		4.2	0.64	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Methylene Chloride	**2.2**	**J**	4.2	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Tetrachloroethene	ND		4.2	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Toluene	ND		4.2	0.32	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
trans-1,2-Dichloroethene	ND		4.2	0.43	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
trans-1,3-Dichloropropene	ND		4.2	1.8	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Trichloroethene	ND		4.2	0.92	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Trichlorofluoromethane	ND		4.2	0.40	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Vinyl chloride	ND		4.2	0.51	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Xylenes, Total	ND		8.4	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
cis-1,3-Dichloropropene	ND		4.2	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1
Styrene	ND		4.2	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 19:40	1

Client Sample ID: PDI-32-50-16-031219

Lab Sample ID: 480-150235-6

Date Collected: 03/12/19 11:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*64 - 126*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
4-Bromofluorobenzene (Surr)	*101*		*72 - 126*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 19:40*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 140*	*03/14/19 08:00*	*03/15/19 19:40*	*1*

Client Sample ID: PDI-28-50-16-031219

Lab Sample ID: 480-150235-7

Date Collected: 03/12/19 12:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 78.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.3	0.31	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2,2-Tetrachloroethane	ND		4.3	0.70	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.3	0.98	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1,2-Trichloroethane	ND		4.3	0.56	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1-Dichloroethane	ND		4.3	0.52	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,1-Dichloroethene	ND		4.3	0.53	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2,4-Trichlorobenzene	ND		4.3	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dibromo-3-Chloropropane	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichlorobenzene	ND		4.3	0.34	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichloroethane	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dichloropropane	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,3-Dichlorobenzene	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,4-Dichlorobenzene	ND		4.3	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
2-Butanone (MEK)	ND		22	1.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
2-Hexanone	ND		22	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
4-Methyl-2-pentanone (MIBK)	ND		22	1.4	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Acetone	**7.0**	**J**	22	3.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Benzene	ND		4.3	0.21	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromoform	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromomethane	ND		4.3	0.39	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Carbon disulfide	ND		4.3	2.2	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Carbon tetrachloride	ND		4.3	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chlorobenzene	ND		4.3	0.57	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Dibromochloromethane	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloroethane	ND		4.3	0.97	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloroform	ND		4.3	0.27	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Chloromethane	ND		4.3	0.26	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
cis-1,2-Dichloroethene	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Cyclohexane	ND		4.3	0.60	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Bromodichloromethane	ND		4.3	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Dichlorodifluoromethane	ND		4.3	0.36	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Ethylbenzene	ND		4.3	0.30	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
1,2-Dibromoethane	ND		4.3	0.55	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Isopropylbenzene	ND		4.3	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methyl acetate	ND		22	2.6	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methyl tert-butyl ether	ND		4.3	0.42	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methylcyclohexane	ND		4.3	0.65	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Methylene Chloride	**2.3**	**J**	4.3	2.0	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Tetrachloroethene	ND		4.3	0.58	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid
Percent Solids: 78.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		4.3	0.33	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
trans-1,2-Dichloroethene	ND		4.3	0.44	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
trans-1,3-Dichloropropene	ND		4.3	1.9	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Trichloroethene	**2.3**	**J**	4.3	0.95	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Trichlorofluoromethane	ND		4.3	0.41	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Vinyl chloride	ND		4.3	0.52	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Xylenes, Total	ND		8.6	0.72	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
cis-1,3-Dichloropropene	ND		4.3	0.62	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1
Styrene	ND		4.3	0.22	ug/Kg	☼	03/14/19 08:00	03/15/19 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*64 - 126*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
Toluene-d8 (Surr)	*103*		*71 - 125*	*03/14/19 08:00*	*03/15/19 20:06*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 140*	*03/14/19 08:00*	*03/15/19 20:06*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(64-126)	(72-126)	(71-125)	(60-140)
480-150235-1	PDI-26-50-17.5-031219	114	101	101	108
480-150235-2	PDI-29-50-17.5-031219	111	102	102	107
480-150235-3	PDI-27-50-17.5-031219	112	103	102	110
480-150235-4	PDI-30-50-17.5-031219	113	102	103	109
480-150235-5	PDI-31-50-17.5-031219	114	101	103	111
480-150235-6	PDI-32-50-16-031219	113	101	103	110
480-150235-7	PDI-28-50-16-031219	112	102	103	109
LCS 480-463180/1-A	Lab Control Sample	106	110	102	106
LCS 480-463418/1-A	Lab Control Sample	106	110	101	106
LCSD 480-463180/3-A	Lab Control Sample Dup	107	111	102	106
MB 480-463180/2-A	Method Blank	106	103	102	104
MB 480-463418/2-A	Method Blank	106	102	102	105

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-463180/2-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463180

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
2-Hexanone	ND		25	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Acetone	ND		25	4.2	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Benzene	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromoform	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloroform	ND		5.0	0.31	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methyl acetate	ND		25	3.0	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Methylene Chloride	ND		5.0	2.3	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Toluene	ND		5.0	0.38	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/15/19 08:56	03/15/19 10:54	1
Styrene	ND		5.0	0.25	ug/Kg		03/15/19 08:56	03/15/19 10:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 126*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/15/19 08:56*	*03/15/19 10:54*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 140*	*03/15/19 08:56*	*03/15/19 10:54*	*1*

Lab Sample ID: LCS 480-463180/1-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463180

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.0		ug/Kg		104	77 - 121
1,1,2,2-Tetrachloroethane	50.0	47.8		ug/Kg		96	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	52.7		ug/Kg		105	60 - 140
1,1,2-Trichloroethane	50.0	49.8		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	52.2		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	52.0		ug/Kg		104	59 - 125
1,2,4-Trichlorobenzene	50.0	46.4		ug/Kg		93	64 - 120
1,2-Dibromo-3-Chloropropane	50.0	38.6		ug/Kg		77	63 - 124
1,2-Dichlorobenzene	50.0	46.6		ug/Kg		93	75 - 120
1,2-Dichloroethane	50.0	52.0		ug/Kg		104	77 - 122
1,2-Dichloropropane	50.0	51.9		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	74 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/Kg		94	73 - 120
2-Butanone (MEK)	250	255		ug/Kg		102	70 - 134
2-Hexanone	250	235		ug/Kg		94	59 - 130
4-Methyl-2-pentanone (MIBK)	250	234		ug/Kg		94	65 - 133
Acetone	250	273		ug/Kg		109	61 - 137
Benzene	50.0	52.7		ug/Kg		105	79 - 127
Bromoform	50.0	54.0		ug/Kg		108	68 - 126
Bromomethane	50.0	55.5		ug/Kg		111	37 - 149
Carbon disulfide	50.0	50.3		ug/Kg		101	64 - 131
Carbon tetrachloride	50.0	53.5		ug/Kg		107	75 - 135
Chlorobenzene	50.0	50.1		ug/Kg		100	76 - 124
Dibromochloromethane	50.0	51.0		ug/Kg		102	76 - 125
Chloroethane	50.0	51.1		ug/Kg		102	69 - 135
Chloroform	50.0	52.4		ug/Kg		105	80 - 120
Chloromethane	50.0	49.0		ug/Kg		98	63 - 127
cis-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	81 - 120
Cyclohexane	50.0	48.3		ug/Kg		97	65 - 120
Bromodichloromethane	50.0	51.5		ug/Kg		103	80 - 122
Dichlorodifluoromethane	50.0	48.4		ug/Kg		97	57 - 142
Ethylbenzene	50.0	49.7		ug/Kg		99	80 - 120
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	45.8		ug/Kg		92	72 - 120
Methyl acetate	100	90.9		ug/Kg		91	55 - 136
Methyl tert-butyl ether	50.0	50.3		ug/Kg		101	63 - 125
Methylcyclohexane	50.0	50.0		ug/Kg		100	60 - 140
Methylene Chloride	50.0	46.8		ug/Kg		94	61 - 127
Tetrachloroethene	50.0	53.2		ug/Kg		106	74 - 122
Toluene	50.0	49.7		ug/Kg		99	74 - 128
trans-1,2-Dichloroethene	50.0	53.5		ug/Kg		107	78 - 126
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	73 - 123
Trichloroethene	50.0	51.7		ug/Kg		103	77 - 129

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

Lab Sample ID: LCS 480-463180/1-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463180

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			50.0	52.0		ug/Kg		104	65 - 146		
Vinyl chloride			50.0	53.3		ug/Kg		107	61 - 133		
cis-1,3-Dichloropropene			50.0	50.9		ug/Kg		102	80 - 120		
Styrene			50.0	46.8		ug/Kg		94	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: LCSD 480-463180/3-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	52.7		ug/Kg		105	77 - 121	1	20
1,1,2,2-Tetrachloroethane			50.0	47.5		ug/Kg		95	80 - 120	1	20
1,1,2-Trichloro-1,2,2-trifluoroethane			50.0	52.2		ug/Kg		104	60 - 140	1	20
1,1,2-Trichloroethane			50.0	49.6		ug/Kg		99	78 - 122	1	20
1,1-Dichloroethane			50.0	52.5		ug/Kg		105	73 - 126	1	20
1,1-Dichloroethene			50.0	51.4		ug/Kg		103	59 - 125	1	20
1,2,4-Trichlorobenzene			50.0	47.7		ug/Kg		95	64 - 120	3	20
1,2-Dibromo-3-Chloropropane			50.0	39.9		ug/Kg		80	63 - 124	3	20
1,2-Dichlorobenzene			50.0	46.6		ug/Kg		93	75 - 120	0	20
1,2-Dichloroethane			50.0	50.9		ug/Kg		102	77 - 122	2	20
1,2-Dichloropropane			50.0	51.3		ug/Kg		103	75 - 124	1	20
1,3-Dichlorobenzene			50.0	48.0		ug/Kg		96	74 - 120	1	20
1,4-Dichlorobenzene			50.0	47.9		ug/Kg		96	73 - 120	2	20
2-Butanone (MEK)			250	264		ug/Kg		106	70 - 134	4	20
2-Hexanone			250	248		ug/Kg		99	59 - 130	6	20
4-Methyl-2-pentanone (MIBK)			250	241		ug/Kg		96	65 - 133	3	20
Acetone			250	283		ug/Kg		113	61 - 137	4	20
Benzene			50.0	52.6		ug/Kg		105	79 - 127	0	20
Bromoform			50.0	54.0		ug/Kg		108	68 - 126	0	20
Bromomethane			50.0	50.3		ug/Kg		101	37 - 149	10	20
Carbon disulfide			50.0	48.6		ug/Kg		97	64 - 131	3	20
Carbon tetrachloride			50.0	53.9		ug/Kg		108	75 - 135	1	20
Chlorobenzene			50.0	50.5		ug/Kg		101	76 - 124	1	20
Dibromochloromethane			50.0	50.3		ug/Kg		101	76 - 125	1	20
Chloroethane			50.0	44.4		ug/Kg		89	69 - 135	14	20
Chloroform			50.0	52.4		ug/Kg		105	80 - 120	0	20
Chloromethane			50.0	47.2		ug/Kg		94	63 - 127	4	20
cis-1,2-Dichloroethene			50.0	52.9		ug/Kg		106	81 - 120	0	20
Cyclohexane			50.0	48.4		ug/Kg		97	65 - 120	0	20
Bromodichloromethane			50.0	50.8		ug/Kg		102	80 - 122	1	20
Dichlorodifluoromethane			50.0	46.7		ug/Kg		93	57 - 142	4	20

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

Lab Sample ID: LCSD 480-463180/3-A
Matrix: Solid
Analysis Batch: 463140

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 463180

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			50.0	50.1		ug/Kg		100	80 - 120	1	20
1,2-Dibromoethane			50.0	49.8		ug/Kg		100	78 - 120	1	20
Isopropylbenzene			50.0	45.7		ug/Kg		91	72 - 120	0	20
Methyl acetate			100	94.5		ug/Kg		95	55 - 136	4	20
Methyl tert-butyl ether			50.0	49.8		ug/Kg		100	63 - 125	1	20
Methylcyclohexane			50.0	50.5		ug/Kg		101	60 - 140	1	20
Methylene Chloride			50.0	46.7		ug/Kg		93	61 - 127	0	20
Tetrachloroethene			50.0	54.0		ug/Kg		108	74 - 122	2	20
Toluene			50.0	50.2		ug/Kg		100	74 - 128	1	20
trans-1,2-Dichloroethene			50.0	54.8		ug/Kg		110	78 - 126	3	20
trans-1,3-Dichloropropene			50.0	48.6		ug/Kg		97	73 - 123	1	20
Trichloroethene			50.0	53.3		ug/Kg		107	77 - 129	3	20
Trichlorofluoromethane			50.0	50.3		ug/Kg		101	65 - 146	3	20
Vinyl chloride			50.0	50.8		ug/Kg		102	61 - 133	5	20
cis-1,3-Dichloropropene			50.0	50.5		ug/Kg		101	80 - 120	1	20
Styrene			50.0	47.3		ug/Kg		95	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*107*		*64 - 126*
4-Bromofluorobenzene (Surr)	*111*		*72 - 126*
Toluene-d8 (Surr)	*102*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

Lab Sample ID: MB 480-463418/2-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.36	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.81	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1,2-Trichloroethane	ND		5.0	0.65	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1-Dichloroethane	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,1-Dichloroethene	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2,4-Trichlorobenzene	ND		5.0	0.30	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichlorobenzene	ND		5.0	0.39	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichloroethane	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dichloropropane	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,3-Dichlorobenzene	ND		5.0	0.26	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,4-Dichlorobenzene	ND		5.0	0.70	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
2-Butanone (MEK)	ND		25	1.8	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
2-Hexanone	ND		25	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
4-Methyl-2-pentanone (MIBK)	ND		25	1.6	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Acetone	ND		25	4.2	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Benzene	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromoform	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromomethane	ND		5.0	0.45	ug/Kg		03/18/19 10:06	03/18/19 11:24	1

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

Lab Sample ID: MB 480-463418/2-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463418

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	2.5	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Carbon tetrachloride	ND		5.0	0.48	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chlorobenzene	ND		5.0	0.66	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Dibromochloromethane	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloroethane	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloroform	ND		5.0	0.31	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Chloromethane	ND		5.0	0.30	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
cis-1,2-Dichloroethene	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Cyclohexane	ND		5.0	0.70	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Bromodichloromethane	ND		5.0	0.67	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Dichlorodifluoromethane	ND		5.0	0.41	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Ethylbenzene	ND		5.0	0.35	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
1,2-Dibromoethane	ND		5.0	0.64	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Isopropylbenzene	ND		5.0	0.75	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methyl acetate	ND		25	3.0	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methyl tert-butyl ether	ND		5.0	0.49	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methylcyclohexane	ND		5.0	0.76	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Methylene Chloride	2.83	J	5.0	2.3	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Tetrachloroethene	ND		5.0	0.67	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Toluene	ND		5.0	0.38	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
trans-1,2-Dichloroethene	ND		5.0	0.52	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
trans-1,3-Dichloropropene	ND		5.0	2.2	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Trichloroethene	ND		5.0	1.1	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Trichlorofluoromethane	ND		5.0	0.47	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Vinyl chloride	ND		5.0	0.61	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Xylenes, Total	ND		10	0.84	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
cis-1,3-Dichloropropene	ND		5.0	0.72	ug/Kg		03/18/19 10:06	03/18/19 11:24	1
Styrene	ND		5.0	0.25	ug/Kg		03/18/19 10:06	03/18/19 11:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
4-Bromofluorobenzene (Surr)	*102*		*72 - 126*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
Toluene-d8 (Surr)	*102*		*71 - 125*	*03/18/19 10:06*	*03/18/19 11:24*	*1*
Dibromofluoromethane (Surr)	*105*		*60 - 140*	*03/18/19 10:06*	*03/18/19 11:24*	*1*

Lab Sample ID: LCS 480-463418/1-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.7		ug/Kg		101	77 - 121
1,1,2,2-Tetrachloroethane	50.0	46.0		ug/Kg		92	80 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	50.0	50.2		ug/Kg		100	60 - 140
1,1,2-Trichloroethane	50.0	50.1		ug/Kg		100	78 - 122
1,1-Dichloroethane	50.0	52.0		ug/Kg		104	73 - 126
1,1-Dichloroethene	50.0	50.2		ug/Kg		100	59 - 125
1,2,4-Trichlorobenzene	50.0	44.4		ug/Kg		89	64 - 120

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

Lab Sample ID: LCS 480-463418/1-A
Matrix: Solid
Analysis Batch: 463385

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463418

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	50.0	39.2		ug/Kg		78	63 - 124
1,2-Dichlorobenzene	50.0	44.7		ug/Kg		89	75 - 120
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	77 - 122
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	75 - 124
1,3-Dichlorobenzene	50.0	45.6		ug/Kg		91	74 - 120
1,4-Dichlorobenzene	50.0	45.5		ug/Kg		91	73 - 120
2-Butanone (MEK)	250	275		ug/Kg		110	70 - 134
2-Hexanone	250	253		ug/Kg		101	59 - 130
4-Methyl-2-pentanone (MIBK)	250	248		ug/Kg		99	65 - 133
Acetone	250	284		ug/Kg		114	61 - 137
Benzene	50.0	52.1		ug/Kg		104	79 - 127
Bromoform	50.0	53.8		ug/Kg		108	68 - 126
Bromomethane	50.0	53.9		ug/Kg		108	37 - 149
Carbon disulfide	50.0	47.7		ug/Kg		95	64 - 131
Carbon tetrachloride	50.0	52.0		ug/Kg		104	75 - 135
Chlorobenzene	50.0	48.8		ug/Kg		98	76 - 124
Dibromochloromethane	50.0	50.8		ug/Kg		102	76 - 125
Chloroethane	50.0	47.2		ug/Kg		94	69 - 135
Chloroform	50.0	52.2		ug/Kg		104	80 - 120
Chloromethane	50.0	48.5		ug/Kg		97	63 - 127
cis-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	81 - 120
Cyclohexane	50.0	47.1		ug/Kg		94	65 - 120
Bromodichloromethane	50.0	52.3		ug/Kg		105	80 - 122
Dichlorodifluoromethane	50.0	43.6		ug/Kg		87	57 - 142
Ethylbenzene	50.0	47.9		ug/Kg		96	80 - 120
1,2-Dibromoethane	50.0	50.4		ug/Kg		101	78 - 120
Isopropylbenzene	50.0	43.0		ug/Kg		86	72 - 120
Methyl acetate	100	99.0		ug/Kg		99	55 - 136
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	63 - 125
Methylcyclohexane	50.0	47.9		ug/Kg		96	60 - 140
Methylene Chloride	50.0	48.1		ug/Kg		96	61 - 127
Tetrachloroethene	50.0	50.9		ug/Kg		102	74 - 122
Toluene	50.0	48.0		ug/Kg		96	74 - 128
trans-1,2-Dichloroethene	50.0	52.1		ug/Kg		104	78 - 126
trans-1,3-Dichloropropene	50.0	48.9		ug/Kg		98	73 - 123
Trichloroethene	50.0	50.7		ug/Kg		101	77 - 129
Trichlorofluoromethane	50.0	53.8		ug/Kg		108	65 - 146
Vinyl chloride	50.0	53.6		ug/Kg		107	61 - 133
cis-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	80 - 120
Styrene	50.0	45.8		ug/Kg		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*106*		*64 - 126*
4-Bromofluorobenzene (Surr)	*110*		*72 - 126*
Toluene-d8 (Surr)	*101*		*71 - 125*
Dibromofluoromethane (Surr)	*106*		*60 - 140*

GC/MS VOA

Analysis Batch: 463140

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	8260C	463180
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	8260C	463180
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	8260C	463180
MB 480-463180/2-A	Method Blank	Total/NA	Solid	8260C	463180
LCS 480-463180/1-A	Lab Control Sample	Total/NA	Solid	8260C	463180
LCSD 480-463180/3-A	Lab Control Sample Dup	Total/NA	Solid	8260C	463180

Prep Batch: 463180

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	5035A_L	
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	5035A_L	
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	5035A_L	
MB 480-463180/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-463180/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	
LCSD 480-463180/3-A	Lab Control Sample Dup	Total/NA	Solid	5035A_L	

Analysis Batch: 463385

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	8260C	463418
MB 480-463418/2-A	Method Blank	Total/NA	Solid	8260C	463418
LCS 480-463418/1-A	Lab Control Sample	Total/NA	Solid	8260C	463418

Prep Batch: 463418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	5035A_L	
MB 480-463418/2-A	Method Blank	Total/NA	Solid	5035A_L	
LCS 480-463418/1-A	Lab Control Sample	Total/NA	Solid	5035A_L	

General Chemistry

Analysis Batch: 463201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-150235-1	PDI-26-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-2	PDI-29-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-3	PDI-27-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-4	PDI-30-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-5	PDI-31-50-17.5-031219	Total/NA	Solid	Moisture	
480-150235-6	PDI-32-50-16-031219	Total/NA	Solid	Moisture	
480-150235-7	PDI-28-50-16-031219	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-26-50-17.5-031219
Lab Sample ID: 480-150235-1
Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-26-50-17.5-031219
Lab Sample ID: 480-150235-1
Date Collected: 03/12/19 08:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 17:29	CDC	TAL BUF

Client Sample ID: PDI-29-50-17.5-031219
Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-29-50-17.5-031219
Lab Sample ID: 480-150235-2
Date Collected: 03/12/19 09:15
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 17:55	CDC	TAL BUF

Client Sample ID: PDI-27-50-17.5-031219
Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-27-50-17.5-031219
Lab Sample ID: 480-150235-3
Date Collected: 03/12/19 09:45
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463418	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463385	03/18/19 12:07	CDC	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-30-50-17.5-031219
Lab Sample ID: 480-150235-4
Date Collected: 03/12/19 10:30
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-30-50-17.5-031219
Lab Sample ID: 480-150235-4
Date Collected: 03/12/19 10:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 75.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 18:48	CDC	TAL BUF

Client Sample ID: PDI-31-50-17.5-031219
Lab Sample ID: 480-150235-5
Date Collected: 03/12/19 11:00
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-31-50-17.5-031219
Lab Sample ID: 480-150235-5
Date Collected: 03/12/19 11:00
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 76.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 19:14	CDC	TAL BUF

Client Sample ID: PDI-32-50-16-031219
Lab Sample ID: 480-150235-6
Date Collected: 03/12/19 11:30
Matrix: Solid
Date Received: 03/14/19 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-32-50-16-031219
Lab Sample ID: 480-150235-6
Date Collected: 03/12/19 11:30
Matrix: Solid
Date Received: 03/14/19 10:00
Percent Solids: 77.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 19:40	CDC	TAL BUF

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	463201	03/15/19 11:03	CDC	TAL BUF

Client Sample ID: PDI-28-50-16-031219
Date Collected: 03/12/19 12:15
Date Received: 03/14/19 10:00

Lab Sample ID: 480-150235-7
Matrix: Solid
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035A_L			463180	03/14/19 08:00	CDC	TAL BUF
Total/NA	Analysis	8260C		1	463140	03/15/19 20:06	CDC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19 *

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
Moisture	Percent Moisture	EPA	TAL BUF
5035A_L	Closed System Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150235-1	PDI-26-50-17.5-031219	Solid	03/12/19 08:30	03/14/19 10:00
480-150235-2	PDI-29-50-17.5-031219	Solid	03/12/19 09:15	03/14/19 10:00
480-150235-3	PDI-27-50-17.5-031219	Solid	03/12/19 09:45	03/14/19 10:00
480-150235-4	PDI-30-50-17.5-031219	Solid	03/12/19 10:30	03/14/19 10:00
480-150235-5	PDI-31-50-17.5-031219	Solid	03/12/19 11:00	03/14/19 10:00
480-150235-6	PDI-32-50-16-031219	Solid	03/12/19 11:30	03/14/19 10:00
480-150235-7	PDI-28-50-16-031219	Solid	03/12/19 12:15	03/14/19 10:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

222

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: L. ESTRADA	Lab PM: Mason, Becky C	Carrier Tracking No(s): NYC	COC No: 480-126561-28676.1
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 1 of 2
Company: CDM Smith, Inc.		**Analysis Requested**		Job #:

Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days):	
State, Zip: NY, 12110		
Phone: 518-782-4526(Tel)	PO #: 77861	
Email: picunasae@cdmsmith.com	WO #:	
Project Name: Former Aluminum Louvre	Project #: 48016917	
Site:	SSOW#:	

480-150235 Chain of Custody

Preservation Codes:
A - HCl
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	Total Number of containe	Special Instructions/Note:
			Preservation Code:				F		
PDI-26-50-17.5-031219	3/12/19	08:30	G	Solid			X		
PDI-29-50-17.5-031219	3/12/19	09:15	G	Solid			X		
PDI-27-50-17-031219	3/12/19	09:45	G	Solid			X		
PDI-30-50-17.5-031219	3/12/19	10:30	G	Solid			X		
PDI-31-50-17.5-031219	3/12/19	11:00	G	Solid			X		
PDI-32-50-16-031219	3/12/19	11:30	G	Solid			X		
PDI-28-50-16-031219	3/12/19	12:15	G	Solid			X		
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify) IV

Special Instructions/QC Requirements: NYSDEC EDD

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		3/12/19 12:45			3/12/19 1245	
2		3/12/19 1645			3/12/19 1645	
3		3/13/19 1900			3-14-19 1000	

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.3 #1

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 480-150235-1

Login Number: 150235
List Number: 1
Creator: Harper, Marcus D

List Source: TestAmerica Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	FREEZE TIME 3/14/19 0800
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	CDM
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-158997-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/9/2018 11:35 AM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/09/2018

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

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

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 13

QC Sample Results 14

Definitions 27

QC Association 28

Chronicle 29

Certification Summary 30

Organic Sample Data 31

GC/MS VOA 31

8260C 31

8260C QC Summary 32

8260C Sample Data 63

Standards Data 116

8260C ICAL Data 116

8260C CCAL Data 523

Raw QC Data 562

8260C Tune Data 562

8260C Blank Data 584

8260C LCS/LCSD Data 605

8260C MS/MSD Data 646

Table of Contents

8260C Run Logs 660

8260C Prep Data 666

Inorganic Sample Data 669

General Chemistry Data 669

Gen Chem Cover Page 670

Gen Chem MDL 671

Gen Chem Analysis Run Log 673

Gen Chem Prep Data 674

Shipping and Receiving Documents 675

Client Chain of Custody 676

Sample Receipt Checklist 679

Job Narrative
460-158997-1

Receipt
The samples were received on 6/22/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-533363 was outside the method criteria for the following analyte(s): Vinyl chloride, Trichlorofluoromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane(biased high) and Bromoform(biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-533092 recovered outside control limits for the following analytes: 1,2-Dibromoethane, Chloromethane and MTBE. These analytes were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-533092 was outside the method criteria for the following analytes: Chloromethane(biased high) and 1,2-Dibromoethane(biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

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

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

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-158997-1	PDI-TB-06222018	Water	06/22/18 00:00	06/22/18 19:00
460-158997-2	PDI-FB-06222018	Water	06/22/18 09:00	06/22/18 19:00
460-158997-3	PDI-14-WG-75-06222018	Water	06/22/18 11:15	06/22/18 19:00
460-158997-4	PDI-14-SO-55-06222018	Solid	06/22/18 10:55	06/22/18 19:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Client Sample ID: PDI-TB-06222018 — Lab Sample ID: 460-158997-1

No Detections.

Client Sample ID: PDI-FB-06222018 — Lab Sample ID: 460-158997-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	16		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.2		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-14-WG-75-06222018 — Lab Sample ID: 460-158997-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.83	J	1.0	0.54	ug/L	1		8260C	Total/NA
Carbon disulfide	0.52	J	1.0	0.16	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.42	J	1.0	0.28	ug/L	1		8260C	Total/NA
Chloromethane	0.24	J	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.31	J	1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.51	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	3.6		1.0	0.31	ug/L	1		8260C	Total/NA
Xylenes, Total	1.8	J	2.0	0.65	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-14-SO-55-06222018 — Lab Sample ID: 460-158997-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.5	J F1	4.3	0.96	ug/Kg	1	☼	8260C	Total/NA
Acetone	17	F1	4.3	3.3	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.30	J F1	0.86	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.32	J F1 B	0.86	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.53	J F1	0.86	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	8.5	F1	0.86	0.12	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-TB-06222018

Date Collected: 06/22/18 00:00
Date Received: 06/22/18 19:00

Lab Sample ID: 460-158997-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 11:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 11:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 11:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 11:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 11:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 11:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 11:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 11:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 11:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 11:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/03/18 11:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 11:23	1
Acetone	ND		5.0	5.0	ug/L			07/03/18 11:23	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 11:23	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 11:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 11:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 11:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 11:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 11:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 11:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 11:23	1
Chloromethane	ND	*	1.0	0.14	ug/L			07/03/18 11:23	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 11:23	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 11:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 11:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 11:23	1
1,2-Dibromoethane	ND	*	1.0	0.50	ug/L			07/03/18 11:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 11:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 11:23	1
Methyl tert-butyl ether	ND	*	1.0	0.47	ug/L			07/03/18 11:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 11:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 11:23	1
Toluene	ND		1.0	0.38	ug/L			07/03/18 11:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 11:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 11:23	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 11:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 11:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 11:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 11:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 11:23	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 11:23	1

Client Sample ID: PDI-TB-06222018

Lab Sample ID: 460-158997-1

Date Collected: 06/22/18 00:00

Matrix: Water

Date Received: 06/22/18 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*07/03/18 11:23*	*1*
4-Bromofluorobenzene	*80*		*77 - 124*		*07/03/18 11:23*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/03/18 11:23*	*1*
Dibromofluoromethane (Surr)	*93*		*72 - 131*		*07/03/18 11:23*	*1*

Client Sample ID: PDI-FB-06222018

Lab Sample ID: 460-158997-2

Date Collected: 06/22/18 09:00

Matrix: Water

Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 11:46	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 11:46	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 11:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 11:46	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 11:46	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 11:46	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 11:46	1
2-Butanone (MEK)	**16**		5.0	1.9	ug/L			07/03/18 11:46	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 11:46	1
Acetone	**16**		5.0	5.0	ug/L			07/03/18 11:46	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 11:46	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 11:46	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 11:46	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 11:46	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 11:46	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 11:46	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 11:46	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 11:46	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 11:46	1
Chloromethane	ND	*	1.0	0.14	ug/L			07/03/18 11:46	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 11:46	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 11:46	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 11:46	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 11:46	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 11:46	1
1,2-Dibromoethane	ND	*	1.0	0.50	ug/L			07/03/18 11:46	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 11:46	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 11:46	1
Methyl tert-butyl ether	ND	*	1.0	0.47	ug/L			07/03/18 11:46	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 11:46	1
Methylene Chloride	**5.2**		1.0	0.32	ug/L			07/03/18 11:46	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 11:46	1

Client Sample ID: PDI-FB-06222018

Lab Sample ID: 460-158997-2

Date Collected: 06/22/18 09:00
Matrix: Water
Date Received: 06/22/18 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/03/18 11:46	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 11:46	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 11:46	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 11:46	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 11:46	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 11:46	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 11:46	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 11:46	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*74 - 132*		*07/03/18 11:46*	*1*
4-Bromofluorobenzene	*77*		*77 - 124*		*07/03/18 11:46*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*07/03/18 11:46*	*1*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*07/03/18 11:46*	*1*

Client Sample ID: PDI-14-WG-75-06222018

Lab Sample ID: 460-158997-3

Date Collected: 06/22/18 11:15
Matrix: Water
Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/04/18 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/04/18 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/04/18 17:54	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/04/18 17:54	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/04/18 17:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/04/18 17:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/04/18 17:54	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/04/18 17:54	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/04/18 17:54	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/04/18 17:54	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/04/18 17:54	1
2-Hexanone	ND		5.0	2.9	ug/L			07/04/18 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/04/18 17:54	1
Acetone	**15**		5.0	5.0	ug/L			07/04/18 17:54	1
Benzene	ND		1.0	0.43	ug/L			07/04/18 17:54	1
Bromoform	**0.83**	**J**	1.0	0.54	ug/L			07/04/18 17:54	1
Bromomethane	ND		1.0	1.0	ug/L			07/04/18 17:54	1
Carbon disulfide	**0.52**	**J**	1.0	0.16	ug/L			07/04/18 17:54	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/04/18 17:54	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/04/18 17:54	1
Dibromochloromethane	**0.42**	**J**	1.0	0.28	ug/L			07/04/18 17:54	1
Chloroethane	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Chloroform	ND		1.0	0.33	ug/L			07/04/18 17:54	1
Chloromethane	**0.24**	**J**	1.0	0.14	ug/L			07/04/18 17:54	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/04/18 17:54	1

Client Sample ID: PDI-14-WG-75-06222018 — Lab Sample ID: 460-158997-3

Date Collected: 06/22/18 11:15 — **Matrix: Water**
Date Received: 06/22/18 19:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/04/18 17:54	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/04/18 17:54	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/04/18 17:54	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/04/18 17:54	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/04/18 17:54	1
Methyl acetate	ND		5.0	0.31	ug/L			07/04/18 17:54	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/04/18 17:54	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/04/18 17:54	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Tetrachloroethene	**0.31**	**J**	1.0	0.25	ug/L			07/04/18 17:54	1
Toluene	**0.51**	**J**	1.0	0.38	ug/L			07/04/18 17:54	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/04/18 17:54	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/04/18 17:54	1
Trichloroethene	**3.6**		1.0	0.31	ug/L			07/04/18 17:54	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/04/18 17:54	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/04/18 17:54	1
Xylenes, Total	**1.8**	**J**	2.0	0.65	ug/L			07/04/18 17:54	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/04/18 17:54	1
Styrene	ND		1.0	0.42	ug/L			07/04/18 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*		*07/04/18 17:54*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*07/04/18 17:54*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/04/18 17:54*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/04/18 17:54*	*1*

Client Sample ID: PDI-14-SO-55-06222018 — Lab Sample ID: 460-158997-4

Date Collected: 06/22/18 10:55 — **Matrix: Solid**
Date Received: 06/22/18 19:00 — **Percent Solids: 83.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	0.86	0.20	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2,2-Tetrachloroethane	ND	F1	0.86	0.18	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	0.86	0.26	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2-Trichloroethane	ND	F1	0.86	0.15	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1-Dichloroethane	ND	F1	0.86	0.18	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1-Dichloroethene	ND	F1	0.86	0.19	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2,4-Trichlorobenzene	ND	F1	0.86	0.079	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dibromo-3-Chloropropane	ND	F1	0.86	0.40	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichlorobenzene	ND	F1	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichloroethane	ND		0.86	0.26	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichloropropane	ND	F1	0.86	0.37	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,3-Dichlorobenzene	ND	F1	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,4-Dichlorobenzene	ND	F1	0.86	0.086	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
2-Butanone (MEK)	**3.5**	**J F1**	4.3	0.96	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
2-Hexanone	ND	F1	4.3	0.67	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
4-Methyl-2-pentanone (MIBK)	ND	F1	4.3	0.57	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Acetone	**17**	**F1**	4.3	3.3	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1

Client Sample ID: PDI-14-SO-55-06222018
Date Collected: 06/22/18 10:55
Date Received: 06/22/18 19:00

Lab Sample ID: 460-158997-4
Matrix: Solid
Percent Solids: 83.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F1	0.86	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromoform	ND		0.86	0.37	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromomethane	ND		0.86	0.41	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Carbon disulfide	ND	F1	0.86	0.23	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Carbon tetrachloride	ND	F1	0.86	0.16	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chlorobenzene	ND	F1	0.86	0.15	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Dibromochloromethane	ND	F1	0.86	0.17	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloroethane	ND		0.86	0.45	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloroform	ND	F1	0.86	0.28	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloromethane	ND		0.86	0.38	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
cis-1,2-Dichloroethene	**0.30**	**J F1**	0.86	0.13	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Cyclohexane	ND	F1	0.86	0.19	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromodichloromethane	ND	F1	0.86	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Dichlorodifluoromethane	ND		0.86	0.29	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Ethylbenzene	ND	F1	0.86	0.17	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dibromoethane	ND	F1	0.86	0.16	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Isopropylbenzene	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methyl acetate	ND	F1	4.3	3.7	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methyl tert-butyl ether	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methylcyclohexane	ND	F1	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methylene Chloride	**0.32**	**J F1 B**	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Tetrachloroethene	**0.53**	**J F1**	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Toluene	ND	F1	0.86	0.54	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
trans-1,2-Dichloroethene	ND	F1	0.86	0.21	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
trans-1,3-Dichloropropene	ND	F1	0.86	0.23	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Trichloroethene	**8.5**	**F1**	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Trichlorofluoromethane	ND		0.86	0.35	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Vinyl chloride	ND		0.86	0.47	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Xylenes, Total	ND	F1	1.7	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
cis-1,3-Dichloropropene	ND	F1	0.86	0.24	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Styrene	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*78 - 135*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
4-Bromofluorobenzene	*108*		*67 - 126*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
Toluene-d8 (Surr)	*95*		*73 - 121*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
Dibromofluoromethane (Surr)	*117*		*61 - 149*	*06/23/18 06:49*	*07/04/18 07:06*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-158997-4	PDI-14-SO-55-06222018	124	108	95	117
460-158997-4 MS	PDI-14MS-SO-55-06222018	121	108	96	115
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	122	107	98	118
LCS 460-533363/4	Lab Control Sample	112	109	98	116
LCSD 460-533363/5	Lab Control Sample Dup	112	108	98	117
MB 460-533363/8	Method Blank	113	106	95	116

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

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

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-158997-1	PDI-TB-06222018	87	80	107	93
460-158997-2	PDI-FB-06222018	86	77	89	90
460-158997-3	PDI-14-WG-75-06222018	92	106	94	108
LCS 460-533092/4	Lab Control Sample	84	87	104	95
LCS 460-533394/4	Lab Control Sample	88	105	92	101
LCSD 460-533092/5	Lab Control Sample Dup	87	93	94	102
MB 460-533092/8	Method Blank	85	83	101	91
MB 460-533394/8	Method Blank	92	107	95	110

Surrogate Legend

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

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 460-158997-4 MS
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MS-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1	17.1	12.1	F1	ug/Kg	☼	71	80 - 125
1,1,2,2-Tetrachloroethane	ND	F1	17.1	10.1	F1	ug/Kg	☼	59	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	17.1	12.9	F1	ug/Kg	☼	75	78 - 132
1,1,2-Trichloroethane	ND	F1	17.1	11.4	F1	ug/Kg	☼	67	76 - 124
1,1-Dichloroethane	ND	F1	17.1	11.9	F1	ug/Kg	☼	70	80 - 124
1,1-Dichloroethene	ND	F1	17.1	11.6	F1	ug/Kg	☼	68	79 - 132
1,2,4-Trichlorobenzene	ND	F1	17.1	9.10	F1	ug/Kg	☼	53	74 - 124
1,2-Dibromo-3-Chloropropane	ND	F1	17.1	8.40	F1	ug/Kg	☼	49	65 - 129
1,2-Dichlorobenzene	ND	F1	17.1	9.93	F1	ug/Kg	☼	58	80 - 121
1,2-Dichloroethane	ND		17.1	12.6		ug/Kg	☼	74	68 - 120
1,2-Dichloropropane	ND	F1	17.1	11.4	F1	ug/Kg	☼	67	77 - 124
1,3-Dichlorobenzene	ND	F1	17.1	9.77	F1	ug/Kg	☼	57	79 - 124
1,4-Dichlorobenzene	ND	F1	17.1	9.57	F1	ug/Kg	☼	56	79 - 121
2-Butanone (MEK)	3.5	J F1	85.4	49.4	F1	ug/Kg	☼	54	61 - 140
2-Hexanone	ND	F1	85.4	48.2	F1	ug/Kg	☼	57	78 - 120
4-Methyl-2-pentanone (MIBK)	ND	F1	85.4	49.4	F1	ug/Kg	☼	58	80 - 120
Acetone	17	F1	85.4	79.2	F1	ug/Kg	☼	73	75 - 120
Benzene	ND	F1	17.1	10.3	F1	ug/Kg	☼	61	75 - 127
Bromoform	ND		17.1	7.97		ug/Kg	☼	47	19 - 150
Bromomethane	ND		17.1	16.1		ug/Kg	☼	95	59 - 136
Carbon disulfide	ND	F1	17.1	10.9	F1	ug/Kg	☼	64	74 - 130
Carbon tetrachloride	ND	F1	17.1	11.1	F1	ug/Kg	☼	65	77 - 138
Chlorobenzene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	80 - 120
Dibromochloromethane	ND	F1	17.1	8.38	F1	ug/Kg	☼	49	67 - 143
Chloroethane	ND		17.1	15.9		ug/Kg	☼	93	50 - 139
Chloroform	ND	F1	17.1	12.3	F1	ug/Kg	☼	72	80 - 122
Chloromethane	ND		17.1	15.2		ug/Kg	☼	89	66 - 128
cis-1,2-Dichloroethene	0.30	J F1	17.1	11.9	F1	ug/Kg	☼	68	80 - 123
Cyclohexane	ND	F1	17.1	11.0	F1	ug/Kg	☼	64	67 - 135
Bromodichloromethane	ND	F1	17.1	11.1	F1	ug/Kg	☼	65	76 - 129
Dichlorodifluoromethane	ND		17.1	14.0		ug/Kg	☼	82	72 - 127
Ethylbenzene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	79 - 124
1,2-Dibromoethane	ND	F1	17.1	10.4	F1	ug/Kg	☼	61	80 - 122
Isopropylbenzene	ND	F1	17.1	9.98	F1	ug/Kg	☼	58	80 - 125
Methyl acetate	ND	F1	34.1	19.3	F1	ug/Kg	☼	57	73 - 123
Methyl tert-butyl ether	ND	F1	17.1	12.2	F1	ug/Kg	☼	71	80 - 120
Methylcyclohexane	ND	F1	17.1	11.5	F1	ug/Kg	☼	67	71 - 137
Methylene Chloride	0.32	J F1 B	17.1	11.9	F1	ug/Kg	☼	68	79 - 128
Tetrachloroethene	0.53	J F1	17.1	11.4	F1	ug/Kg	☼	64	73 - 130
Toluene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	75 - 122
trans-1,2-Dichloroethene	ND	F1	17.1	11.2	F1	ug/Kg	☼	66	80 - 129
trans-1,3-Dichloropropene	ND	F1	17.1	9.62	F1	ug/Kg	☼	56	72 - 121
Trichloroethene	8.5	F1	17.1	15.6	F1	ug/Kg	☼	42	79 - 122
Trichlorofluoromethane	ND		17.1	16.4		ug/Kg	☼	96	68 - 136
Vinyl chloride	ND		17.1	15.1		ug/Kg	☼	88	70 - 134
cis-1,3-Dichloropropene	ND	F1	17.1	9.60	F1	ug/Kg	☼	56	75 - 124
Styrene	ND	F1	17.1	9.71	F1	ug/Kg	☼	57	78 - 123

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

Lab Sample ID: 460-158997-4 MS
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MS-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*121*		*78 - 135*
4-Bromofluorobenzene	*108*		*67 - 126*
Toluene-d8 (Surr)	*96*		*73 - 121*
Dibromofluoromethane (Surr)	*115*		*61 - 149*

Lab Sample ID: 460-158997-4 MSD
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MSD-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	16.4	13.2		ug/Kg	☼	81	80 - 125	9	30
1,1,2,2-Tetrachloroethane	ND	F1	16.4	10.8	F1	ug/Kg	☼	66	72 - 131	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	16.4	14.0		ug/Kg	☼	85	78 - 132	8	30
1,1,2-Trichloroethane	ND	F1	16.4	11.9	F1	ug/Kg	☼	72	76 - 124	5	30
1,1-Dichloroethane	ND	F1	16.4	13.1		ug/Kg	☼	80	80 - 124	10	30
1,1-Dichloroethene	ND	F1	16.4	12.4	F1	ug/Kg	☼	75	79 - 132	6	30
1,2,4-Trichlorobenzene	ND	F1	16.4	10.0	F1	ug/Kg	☼	61	74 - 124	10	30
1,2-Dibromo-3-Chloropropane	ND	F1	16.4	8.90	F1	ug/Kg	☼	54	65 - 129	6	30
1,2-Dichlorobenzene	ND	F1	16.4	11.1	F1	ug/Kg	☼	67	80 - 121	11	30
1,2-Dichloroethane	ND		16.4	13.9		ug/Kg	☼	85	68 - 120	10	30
1,2-Dichloropropane	ND	F1	16.4	12.5	F1	ug/Kg	☼	76	77 - 124	9	30
1,3-Dichlorobenzene	ND	F1	16.4	10.7	F1	ug/Kg	☼	65	79 - 124	9	30
1,4-Dichlorobenzene	ND	F1	16.4	10.6	F1	ug/Kg	☼	65	79 - 121	10	30
2-Butanone (MEK)	3.5	J F1	82.0	54.9		ug/Kg	☼	63	61 - 140	11	30
2-Hexanone	ND	F1	82.0	53.8	F1	ug/Kg	☼	66	78 - 120	11	30
4-Methyl-2-pentanone (MIBK)	ND	F1	82.0	54.5	F1	ug/Kg	☼	67	80 - 120	10	30
Acetone	17	F1	82.0	78.3		ug/Kg	☼	75	75 - 120	1	30
Benzene	ND	F1	16.4	11.5	F1	ug/Kg	☼	70	75 - 127	10	30
Bromoform	ND		16.4	8.66		ug/Kg	☼	53	19 - 150	8	30
Bromomethane	ND		16.4	17.3		ug/Kg	☼	106	59 - 136	7	30
Carbon disulfide	ND	F1	16.4	12.2		ug/Kg	☼	74	74 - 130	11	30
Carbon tetrachloride	ND	F1	16.4	12.3	F1	ug/Kg	☼	75	77 - 138	10	30
Chlorobenzene	ND	F1	16.4	11.2	F1	ug/Kg	☼	68	80 - 120	9	30
Dibromochloromethane	ND	F1	16.4	9.27	F1	ug/Kg	☼	57	67 - 143	10	30
Chloroethane	ND		16.4	17.2		ug/Kg	☼	105	50 - 139	8	30
Chloroform	ND	F1	16.4	13.4		ug/Kg	☼	82	80 - 122	8	30
Chloromethane	ND		16.4	15.6		ug/Kg	☼	95	66 - 128	3	30
cis-1,2-Dichloroethene	0.30	J F1	16.4	12.7	F1	ug/Kg	☼	76	80 - 123	7	30
Cyclohexane	ND	F1	16.4	11.4		ug/Kg	☼	70	67 - 135	4	30
Bromodichloromethane	ND	F1	16.4	11.9	F1	ug/Kg	☼	73	76 - 129	7	30
Dichlorodifluoromethane	ND		16.4	14.7		ug/Kg	☼	90	72 - 127	5	30
Ethylbenzene	ND	F1	16.4	10.5	F1	ug/Kg	☼	64	79 - 124	4	30
1,2-Dibromoethane	ND	F1	16.4	11.5	F1	ug/Kg	☼	70	80 - 122	10	30
Isopropylbenzene	ND	F1	16.4	10.9	F1	ug/Kg	☼	66	80 - 125	9	30
Methyl acetate	ND	F1	32.8	21.9	F1	ug/Kg	☼	67	73 - 123	12	30
Methyl tert-butyl ether	ND	F1	16.4	13.4		ug/Kg	☼	81	80 - 120	9	30
Methylcyclohexane	ND	F1	16.4	12.4		ug/Kg	☼	75	71 - 137	7	30

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

Lab Sample ID: 460-158997-4 MSD — **Client Sample ID: PDI-14MSD-SO-55-06222018**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 533363 — **Prep Batch: 530346**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.32	J F1 B	16.4	12.9	F1	ug/Kg	☼	77	79 - 128	8	30
Tetrachloroethene	0.53	J F1	16.4	12.4	F1	ug/Kg	☼	72	73 - 130	8	30
Toluene	ND	F1	16.4	11.2	F1	ug/Kg	☼	68	75 - 122	9	30
trans-1,2-Dichloroethene	ND	F1	16.4	12.0	F1	ug/Kg	☼	73	80 - 129	7	30
trans-1,3-Dichloropropene	ND	F1	16.4	10.5	F1	ug/Kg	☼	64	72 - 121	9	30
Trichloroethene	8.5	F1	16.4	16.1	F1	ug/Kg	☼	46	79 - 122	3	30
Trichlorofluoromethane	ND		16.4	16.6		ug/Kg	☼	101	68 - 136	1	30
Vinyl chloride	ND		16.4	15.7		ug/Kg	☼	96	70 - 134	4	30
cis-1,3-Dichloropropene	ND	F1	16.4	10.6	F1	ug/Kg	☼	65	75 - 124	10	30
Styrene	ND	F1	16.4	10.4	F1	ug/Kg	☼	64	78 - 123	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*78 - 135*
4-Bromofluorobenzene	*107*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*118*		*61 - 149*

Lab Sample ID: MB 460-533092/8 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 533092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 10:17	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 10:17	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 10:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 10:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 10:17	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 10:17	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 10:17	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/03/18 10:17	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 10:17	1
Acetone	ND		5.0	5.0	ug/L			07/03/18 10:17	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 10:17	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 10:17	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 10:17	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 10:17	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 10:17	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 10:17	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 10:17	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 10:17	1

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

Lab Sample ID: MB 460-533092/8
Matrix: Water
Analysis Batch: 533092

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.14	ug/L			07/03/18 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 10:17	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 10:17	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 10:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 10:17	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/03/18 10:17	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 10:17	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 10:17	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/03/18 10:17	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 10:17	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 10:17	1
Toluene	ND		1.0	0.38	ug/L			07/03/18 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 10:17	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 10:17	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 10:17	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 10:17	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 10:17	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 10:17	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 10:17	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 132*		*07/03/18 10:17*	*1*
4-Bromofluorobenzene	*83*		*77 - 124*		*07/03/18 10:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/03/18 10:17*	*1*
Dibromofluoromethane (Surr)	*91*		*72 - 131*		*07/03/18 10:17*	*1*

Lab Sample ID: LCS 460-533092/4
Matrix: Water
Analysis Batch: 533092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	15.2		ug/L		76	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.1		ug/L		86	59 - 150
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	78 - 120
1,1-Dichloroethane	20.0	18.0		ug/L		90	77 - 123
1,1-Dichloroethene	20.0	17.1		ug/L		86	74 - 123
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	14.5		ug/L		72	55 - 134
1,2-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	15.8		ug/L		79	76 - 121
1,2-Dichloropropane	20.0	18.4		ug/L		92	77 - 123
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120

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

Lab Sample ID: LCS 460-533092/4
Matrix: Water
Analysis Batch: 533092

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	108		ug/L		108	64 - 120
2-Hexanone	100	84.8		ug/L		85	71 - 125
4-Methyl-2-pentanone (MIBK)	100	92.1		ug/L		92	78 - 124
Acetone	100	93.2		ug/L		93	39 - 150
Benzene	20.0	22.5		ug/L		113	77 - 121
Bromoform	20.0	16.0		ug/L		80	53 - 120
Bromomethane	20.0	20.2		ug/L		101	10 - 150
Carbon disulfide	20.0	16.7		ug/L		84	69 - 133
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 132
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
Dibromochloromethane	20.0	19.4		ug/L		97	73 - 120
Chloroethane	20.0	22.6		ug/L		113	52 - 150
Chloroform	20.0	19.8		ug/L		99	80 - 120
Chloromethane	20.0	33.2	*	ug/L		166	56 - 131
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120
Cyclohexane	20.0	15.9		ug/L		79	56 - 150
Bromodichloromethane	20.0	19.0		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	20.8		ug/L		104	50 - 131
Ethylbenzene	20.0	19.7		ug/L		99	80 - 120
1,2-Dibromoethane	20.0	15.8	*	ug/L		79	80 - 120
Isopropylbenzene	20.0	19.3		ug/L		96	80 - 123
Methyl acetate	40.0	41.9		ug/L		105	66 - 144
Methyl tert-butyl ether	20.0	13.8	*	ug/L		69	79 - 122
Methylcyclohexane	20.0	17.5		ug/L		88	61 - 145
Methylene Chloride	20.0	15.8		ug/L		79	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	21.0		ug/L		105	80 - 120
trans-1,2-Dichloroethene	20.0	15.9		ug/L		80	79 - 120
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	76 - 120
Trichloroethene	20.0	19.8		ug/L		99	77 - 120
Trichlorofluoromethane	20.0	20.7		ug/L		104	71 - 143
Vinyl chloride	20.0	19.5		ug/L		97	62 - 138
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 120
Styrene	20.0	18.7		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 132*
4-Bromofluorobenzene	*87*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*72 - 131*

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.8		ug/L		114	75 - 125	14	30
1,1,2,2-Tetrachloroethane	20.0	17.7		ug/L		88	74 - 120	15	30

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

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	59 - 150	13	30
1,1,2-Trichloroethane	20.0	16.8		ug/L		84	78 - 120	7	30
1,1-Dichloroethane	20.0	22.7		ug/L		113	77 - 123	23	30
1,1-Dichloroethene	20.0	20.1		ug/L		100	74 - 123	16	30
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	80 - 124	3	30
1,2-Dibromo-3-Chloropropane	20.0	14.1		ug/L		71	55 - 134	2	30
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120	7	30
1,2-Dichloroethane	20.0	17.3		ug/L		87	76 - 121	9	30
1,2-Dichloropropane	20.0	22.0		ug/L		110	77 - 123	18	30
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 120	11	30
1,4-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120	8	30
2-Butanone (MEK)	100	112		ug/L		112	64 - 120	4	30
2-Hexanone	100	94.0		ug/L		94	71 - 125	10	30
4-Methyl-2-pentanone (MIBK)	100	93.2		ug/L		93	78 - 124	1	30
Acetone	100	110		ug/L		110	39 - 150	17	30
Benzene	20.0	22.2		ug/L		111	77 - 121	2	30
Bromoform	20.0	18.0		ug/L		90	53 - 120	12	30
Bromomethane	20.0	21.5		ug/L		108	10 - 150	6	30
Carbon disulfide	20.0	19.6		ug/L		98	69 - 133	16	30
Carbon tetrachloride	20.0	23.8		ug/L		119	70 - 132	10	30
Chlorobenzene	20.0	21.4		ug/L		107	80 - 120	10	30
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120	2	30
Chloroethane	20.0	22.0		ug/L		110	52 - 150	3	30
Chloroform	20.0	22.2		ug/L		111	80 - 120	12	30
Chloromethane	20.0	31.1	*	ug/L		156	56 - 131	6	30
cis-1,2-Dichloroethene	20.0	22.6		ug/L		113	80 - 120	17	30
Cyclohexane	20.0	18.7		ug/L		94	56 - 150	16	30
Bromodichloromethane	20.0	21.2		ug/L		106	76 - 120	11	30
Dichlorodifluoromethane	20.0	20.5		ug/L		102	50 - 131	1	30
Ethylbenzene	20.0	20.9		ug/L		104	80 - 120	6	30
1,2-Dibromoethane	20.0	16.8		ug/L		84	80 - 120	6	30
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 123	7	30
Methyl acetate	40.0	51.1		ug/L		128	66 - 144	20	30
Methyl tert-butyl ether	20.0	17.4		ug/L		87	79 - 122	23	30
Methylcyclohexane	20.0	18.5		ug/L		92	61 - 145	5	30
Methylene Chloride	20.0	21.0		ug/L		105	77 - 123	28	30
Tetrachloroethene	20.0	19.2		ug/L		96	78 - 122	3	30
Toluene	20.0	20.2		ug/L		101	80 - 120	4	30
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	79 - 120	29	30
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	76 - 120	3	30
Trichloroethene	20.0	21.7		ug/L		109	77 - 120	9	30
Trichlorofluoromethane	20.0	20.5		ug/L		102	71 - 143	1	30
Vinyl chloride	20.0	20.4		ug/L		102	62 - 138	4	30
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 120	0	30
Styrene	20.0	19.5		ug/L		97	80 - 120	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Lab Sample ID: MB 460-533363/8
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/04/18 02:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/04/18 02:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/04/18 02:37	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/04/18 02:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/04/18 02:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/04/18 02:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/04/18 02:37	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/04/18 02:37	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/04/18 02:37	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/04/18 02:37	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/04/18 02:37	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/04/18 02:37	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/04/18 02:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/04/18 02:37	1
Acetone	ND		5.0	3.8	ug/Kg			07/04/18 02:37	1
Benzene	ND		1.0	0.26	ug/Kg			07/04/18 02:37	1
Bromoform	ND		1.0	0.43	ug/Kg			07/04/18 02:37	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/04/18 02:37	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/04/18 02:37	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/04/18 02:37	1
Chloroform	ND		1.0	0.32	ug/Kg			07/04/18 02:37	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/04/18 02:37	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/04/18 02:37	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/04/18 02:37	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/04/18 02:37	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/04/18 02:37	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/04/18 02:37	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/04/18 02:37	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/04/18 02:37	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/04/18 02:37	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/04/18 02:37	1
Methylene Chloride	0.427	J	1.0	0.16	ug/Kg			07/04/18 02:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533363/8
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
Toluene	ND		1.0	0.63	ug/Kg			07/04/18 02:37	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/04/18 02:37	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/04/18 02:37	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/04/18 02:37	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/04/18 02:37	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Styrene	ND		1.0	0.12	ug/Kg			07/04/18 02:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 135*		*07/04/18 02:37*	*1*
4-Bromofluorobenzene	*106*		*67 - 126*		*07/04/18 02:37*	*1*
Toluene-d8 (Surr)	*95*		*73 - 121*		*07/04/18 02:37*	*1*
Dibromofluoromethane (Surr)	*116*		*61 - 149*		*07/04/18 02:37*	*1*

Lab Sample ID: LCS 460-533363/4
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.6		ug/Kg		108	80 - 125
1,1,2,2-Tetrachloroethane	20.0	16.4		ug/Kg		82	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.0		ug/Kg		115	78 - 132
1,1,2-Trichloroethane	20.0	18.2		ug/Kg		91	76 - 124
1,1-Dichloroethane	20.0	21.2		ug/Kg		106	80 - 124
1,1-Dichloroethene	20.0	20.4		ug/Kg		102	79 - 132
1,2,4-Trichlorobenzene	20.0	18.7		ug/Kg		94	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	13.7		ug/Kg		69	65 - 129
1,2-Dichlorobenzene	20.0	18.6		ug/Kg		93	80 - 121
1,2-Dichloroethane	20.0	21.0		ug/Kg		105	68 - 120
1,2-Dichloropropane	20.0	20.0		ug/Kg		100	77 - 124
1,3-Dichlorobenzene	20.0	18.2		ug/Kg		91	79 - 124
1,4-Dichlorobenzene	20.0	18.1		ug/Kg		91	79 - 121
2-Butanone (MEK)	100	89.2		ug/Kg		89	61 - 140
2-Hexanone	100	91.3		ug/Kg		91	78 - 120
4-Methyl-2-pentanone (MIBK)	100	93.5		ug/Kg		93	80 - 120
Acetone	100	94.0		ug/Kg		94	75 - 120
Benzene	20.0	18.3		ug/Kg		92	75 - 127
Bromoform	20.0	14.0		ug/Kg		70	19 - 150
Bromomethane	20.0	25.6		ug/Kg		128	59 - 136
Carbon disulfide	20.0	19.8		ug/Kg		99	74 - 130
Carbon tetrachloride	20.0	20.5		ug/Kg		103	77 - 138
Chlorobenzene	20.0	18.8		ug/Kg		94	80 - 120
Dibromochloromethane	20.0	14.9		ug/Kg		75	67 - 143
Chloroethane	20.0	26.1		ug/Kg		131	50 - 139

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-533363/4
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	21.7		ug/Kg		108	80 - 122
Chloromethane	20.0	23.6		ug/Kg		118	66 - 128
cis-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	80 - 123
Cyclohexane	20.0	20.5		ug/Kg		102	67 - 135
Bromodichloromethane	20.0	19.0		ug/Kg		95	76 - 129
Dichlorodifluoromethane	20.0	22.0		ug/Kg		110	72 - 127
Ethylbenzene	20.0	18.0		ug/Kg		90	79 - 124
1,2-Dibromoethane	20.0	17.7		ug/Kg		89	80 - 122
Isopropylbenzene	20.0	18.7		ug/Kg		94	80 - 125
Methyl acetate	40.0	36.7		ug/Kg		92	73 - 123
Methyl tert-butyl ether	20.0	20.2		ug/Kg		101	80 - 120
Methylcyclohexane	20.0	20.7		ug/Kg		104	71 - 137
Methylene Chloride	20.0	20.3		ug/Kg		102	79 - 128
Tetrachloroethene	20.0	21.0		ug/Kg		105	73 - 130
Toluene	20.0	18.4		ug/Kg		92	75 - 122
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	80 - 129
trans-1,3-Dichloropropene	20.0	16.5		ug/Kg		83	72 - 121
Trichloroethene	20.0	20.6		ug/Kg		103	79 - 122
Trichlorofluoromethane	20.0	25.5		ug/Kg		127	68 - 136
Vinyl chloride	20.0	24.1		ug/Kg		121	70 - 134
cis-1,3-Dichloropropene	20.0	16.8		ug/Kg		84	75 - 124
Styrene	20.0	18.2		ug/Kg		91	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 135*
4-Bromofluorobenzene	*109*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*116*		*61 - 149*

Lab Sample ID: LCSD 460-533363/5
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.3		ug/Kg		111	80 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	16.1		ug/Kg		80	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5		ug/Kg		113	78 - 132	2	30
1,1,2-Trichloroethane	20.0	18.6		ug/Kg		93	76 - 124	2	30
1,1-Dichloroethane	20.0	21.2		ug/Kg		106	80 - 124	0	30
1,1-Dichloroethene	20.0	21.6		ug/Kg		108	79 - 132	5	30
1,2,4-Trichlorobenzene	20.0	19.1		ug/Kg		95	74 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	13.4		ug/Kg		67	65 - 129	2	30
1,2-Dichlorobenzene	20.0	18.7		ug/Kg		94	80 - 121	1	30
1,2-Dichloroethane	20.0	21.1		ug/Kg		105	68 - 120	0	30
1,2-Dichloropropane	20.0	19.7		ug/Kg		98	77 - 124	2	30
1,3-Dichlorobenzene	20.0	18.8		ug/Kg		94	79 - 124	3	30
1,4-Dichlorobenzene	20.0	18.6		ug/Kg		93	79 - 121	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-533363/5
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	89.5		ug/Kg		90	61 - 140	0	30
2-Hexanone			100	90.8		ug/Kg		91	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)			100	93.1		ug/Kg		93	80 - 120	0	30
Acetone			100	99.6		ug/Kg		100	75 - 120	6	30
Benzene			20.0	18.9		ug/Kg		95	75 - 127	3	30
Bromoform			20.0	14.0		ug/Kg		70	19 - 150	0	30
Bromomethane			20.0	25.8		ug/Kg		129	59 - 136	1	30
Carbon disulfide			20.0	20.2		ug/Kg		101	74 - 130	2	30
Carbon tetrachloride			20.0	20.8		ug/Kg		104	77 - 138	1	30
Chlorobenzene			20.0	18.9		ug/Kg		95	80 - 120	1	30
Dibromochloromethane			20.0	15.5		ug/Kg		77	67 - 143	4	30
Chloroethane			20.0	24.9		ug/Kg		124	50 - 139	5	30
Chloroform			20.0	21.7		ug/Kg		109	80 - 122	0	30
Chloromethane			20.0	24.4		ug/Kg		122	66 - 128	4	30
cis-1,2-Dichloroethene			20.0	20.7		ug/Kg		104	80 - 123	1	30
Cyclohexane			20.0	20.1		ug/Kg		100	67 - 135	2	30
Bromodichloromethane			20.0	19.4		ug/Kg		97	76 - 129	2	30
Dichlorodifluoromethane			20.0	23.0		ug/Kg		115	72 - 127	4	30
Ethylbenzene			20.0	18.9		ug/Kg		94	79 - 124	5	30
1,2-Dibromoethane			20.0	17.7		ug/Kg		89	80 - 122	0	30
Isopropylbenzene			20.0	19.5		ug/Kg		97	80 - 125	4	30
Methyl acetate			40.0	38.1		ug/Kg		95	73 - 123	4	30
Methyl tert-butyl ether			20.0	21.0		ug/Kg		105	80 - 120	4	30
Methylcyclohexane			20.0	20.9		ug/Kg		105	71 - 137	1	30
Methylene Chloride			20.0	20.2		ug/Kg		101	79 - 128	0	30
Tetrachloroethene			20.0	21.4		ug/Kg		107	73 - 130	2	30
Toluene			20.0	18.7		ug/Kg		94	75 - 122	2	30
trans-1,2-Dichloroethene			20.0	20.7		ug/Kg		104	80 - 129	1	30
trans-1,3-Dichloropropene			20.0	16.9		ug/Kg		85	72 - 121	2	30
Trichloroethene			20.0	21.2		ug/Kg		106	79 - 122	3	30
Trichlorofluoromethane			20.0	25.1		ug/Kg		125	68 - 136	2	30
Vinyl chloride			20.0	24.6		ug/Kg		123	70 - 134	2	30
cis-1,3-Dichloropropene			20.0	17.4		ug/Kg		87	75 - 124	3	30
Styrene			20.0	18.1		ug/Kg		90	78 - 123	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 135*
4-Bromofluorobenzene	*108*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*117*		*61 - 149*

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/04/18 10:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/04/18 10:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/04/18 10:02	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/04/18 10:02	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/04/18 10:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/04/18 10:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/04/18 10:02	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/04/18 10:02	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/04/18 10:02	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/04/18 10:02	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/04/18 10:02	1
2-Hexanone	ND		5.0	2.9	ug/L			07/04/18 10:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/04/18 10:02	1
Acetone	ND		5.0	5.0	ug/L			07/04/18 10:02	1
Benzene	ND		1.0	0.43	ug/L			07/04/18 10:02	1
Bromoform	ND		1.0	0.54	ug/L			07/04/18 10:02	1
Bromomethane	ND		1.0	1.0	ug/L			07/04/18 10:02	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/04/18 10:02	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/04/18 10:02	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/04/18 10:02	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/04/18 10:02	1
Chloroethane	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Chloroform	ND		1.0	0.33	ug/L			07/04/18 10:02	1
Chloromethane	ND		1.0	0.14	ug/L			07/04/18 10:02	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/04/18 10:02	1
Cyclohexane	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/04/18 10:02	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/04/18 10:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/04/18 10:02	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/04/18 10:02	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/04/18 10:02	1
Methyl acetate	ND		5.0	0.31	ug/L			07/04/18 10:02	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/04/18 10:02	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/04/18 10:02	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/04/18 10:02	1
Toluene	ND		1.0	0.38	ug/L			07/04/18 10:02	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/04/18 10:02	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/04/18 10:02	1
Trichloroethene	ND		1.0	0.31	ug/L			07/04/18 10:02	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/04/18 10:02	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/04/18 10:02	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/04/18 10:02	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/04/18 10:02	1
Styrene	ND		1.0	0.42	ug/L			07/04/18 10:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*		*07/04/18 10:02*	*1*
4-Bromofluorobenzene	*107*		*77 - 124*		*07/04/18 10:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*		*07/04/18 10:02*	*1*
Dibromofluoromethane (Surr)	*110*		*72 - 131*		*07/04/18 10:02*	*1*

Lab Sample ID: LCS 460-533394/4
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	17.4		ug/L		87	75 - 125
1,1,2,2-Tetrachloroethane	20.0	16.8		ug/L		84	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.1		ug/L		90	59 - 150
1,1,2-Trichloroethane	20.0	16.6		ug/L		83	78 - 120
1,1-Dichloroethane	20.0	17.3		ug/L		86	77 - 123
1,1-Dichloroethene	20.0	17.1		ug/L		86	74 - 123
1,2,4-Trichlorobenzene	20.0	20.8		ug/L		104	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.3		ug/L		82	55 - 134
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,2-Dichloroethane	20.0	16.6		ug/L		83	76 - 121
1,2-Dichloropropane	20.0	17.6		ug/L		88	77 - 123
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
2-Butanone (MEK)	100	96.7		ug/L		97	64 - 120
2-Hexanone	100	83.7		ug/L		84	71 - 125
4-Methyl-2-pentanone (MIBK)	100	91.6		ug/L		92	78 - 124
Acetone	100	86.8		ug/L		87	39 - 150
Benzene	20.0	16.9		ug/L		85	77 - 121
Bromoform	20.0	20.3		ug/L		101	53 - 120
Bromomethane	20.0	18.2		ug/L		91	10 - 150
Carbon disulfide	20.0	17.1		ug/L		86	69 - 133
Carbon tetrachloride	20.0	18.5		ug/L		93	70 - 132
Chlorobenzene	20.0	18.5		ug/L		92	80 - 120
Dibromochloromethane	20.0	18.0		ug/L		90	73 - 120
Chloroethane	20.0	17.3		ug/L		86	52 - 150
Chloroform	20.0	17.9		ug/L		89	80 - 120
Chloromethane	20.0	16.2		ug/L		81	56 - 131
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	80 - 120
Cyclohexane	20.0	18.8		ug/L		94	56 - 150
Bromodichloromethane	20.0	17.4		ug/L		87	76 - 120
Dichlorodifluoromethane	20.0	16.9		ug/L		84	50 - 131
Ethylbenzene	20.0	17.3		ug/L		86	80 - 120
1,2-Dibromoethane	20.0	17.5		ug/L		88	80 - 120
Isopropylbenzene	20.0	18.7		ug/L		94	80 - 123
Methyl acetate	40.0	34.5		ug/L		86	66 - 144
Methyl tert-butyl ether	20.0	18.3		ug/L		92	79 - 122
Methylcyclohexane	20.0	18.2		ug/L		91	61 - 145

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-533394/4
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	20.0	18.2		ug/L		91	77 - 123
Tetrachloroethene	20.0	18.6		ug/L		93	78 - 122
Toluene	20.0	17.5		ug/L		87	80 - 120
trans-1,2-Dichloroethene	20.0	18.2		ug/L		91	79 - 120
trans-1,3-Dichloropropene	20.0	16.3		ug/L		81	76 - 120
Trichloroethene	20.0	17.5		ug/L		87	77 - 120
Trichlorofluoromethane	20.0	16.4		ug/L		82	71 - 143
Vinyl chloride	20.0	17.1		ug/L		86	62 - 138
cis-1,3-Dichloropropene	20.0	16.2		ug/L		81	77 - 120
Styrene	20.0	19.2		ug/L		96	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*
4-Bromofluorobenzene	*105*		*77 - 124*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	5035	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	5035	
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	5035	

Analysis Batch: 533092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-1	PDI-TB-06222018	Total/NA	Water	8260C	
460-158997-2	PDI-FB-06222018	Total/NA	Water	8260C	
MB 460-533092/8	Method Blank	Total/NA	Water	8260C	
LCS 460-533092/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-533092/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 533363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	8260C	530346
MB 460-533363/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-533363/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-533363/5	Lab Control Sample Dup	Total/NA	Solid	8260C	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	8260C	530346
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	8260C	530346

Analysis Batch: 533394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-3	PDI-14-WG-75-06222018	Total/NA	Water	8260C	
MB 460-533394/8	Method Blank	Total/NA	Water	8260C	
LCS 460-533394/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 531036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	Moisture	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	Moisture	
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-TB-06222018
Lab Sample ID: 460-158997-1
Date Collected: 06/22/18 00:00
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533092	07/03/18 11:23	AAT	TAL EDI

Client Sample ID: PDI-FB-06222018
Lab Sample ID: 460-158997-2
Date Collected: 06/22/18 09:00
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533092	07/03/18 11:46	AAT	TAL EDI

Client Sample ID: PDI-14-WG-75-06222018
Lab Sample ID: 460-158997-3
Date Collected: 06/22/18 11:15
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533394	07/04/18 17:54	AAT	TAL EDI

Client Sample ID: PDI-14-SO-55-06222018
Lab Sample ID: 460-158997-4
Date Collected: 06/22/18 10:55
Matrix: Solid
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	531036	06/26/18 08:58	BJP	TAL EDI

Client Sample ID: PDI-14-SO-55-06222018
Lab Sample ID: 460-158997-4
Date Collected: 06/22/18 10:55
Matrix: Solid
Date Received: 06/22/18 19:00
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:49	DBM	TAL EDI
Total/NA	Analysis	8260C		1	533363	07/04/18 07:06	MZS	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-158997-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-14-SO-55-06222018	460-158997-4	117	124	95	108
	MB 460-533363/8	116	113	95	106
	LCS 460-533363/4	116	112	98	109
	LCSD 460-533363/5	117	112	98	108
PDI-14MS-SO-55-06222018 MS	460-158997-4 MS	115	121	96	108
PDI-14MSD-SO-55-06222018 MSD	460-158997-4 MSD	118	122	98	107

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06222018	460-158997-1	93	87	107	80
PDI-FB-06222018	460-158997-2	90	86	89	77
PDI-14-WG-75-06222018	460-158997-3	108	92	94	106
	MB 460-533092/8	91	85	101	83
	MB 460-533394/8	110	92	95	107
	LCS 460-533092/4	95	84	104	87
	LCS 460-533394/4	101	88	92	105
	LCSD 460-533092/5	102	87	94	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N68528.D

Lab ID: LCS 460-533092/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.8	99	75-125	
1,1,2,2-Tetrachloroethane	20.0	15.2	76	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.1	86	59-150	
1,1,2-Trichloroethane	20.0	18.0	90	78-120	
1,1-Dichloroethane	20.0	18.0	90	77-123	
1,1-Dichloroethene	20.0	17.1	86	74-123	
1,2,4-Trichlorobenzene	20.0	18.2	91	80-124	
1,2-Dibromo-3-Chloropropane	20.0	14.5	72	55-134	
1,2-Dichlorobenzene	20.0	18.7	93	80-120	
1,2-Dichloroethane	20.0	15.8	79	76-121	
1,2-Dichloropropane	20.0	18.4	92	77-123	
1,3-Dichlorobenzene	20.0	19.2	96	80-120	
1,4-Dichlorobenzene	20.0	19.9	99	80-120	
2-Butanone (MEK)	100	108	108	64-120	
2-Hexanone	100	84.8	85	71-125	
4-Methyl-2-pentanone (MIBK)	100	92.1	92	78-124	
Acetone	100	93.2	93	39-150	
Benzene	20.0	22.5	113	77-121	
Bromoform	20.0	16.0	80	53-120	
Bromomethane	20.0	20.2	101	10-150	
Carbon disulfide	20.0	16.7	84	69-133	
Carbon tetrachloride	20.0	21.6	108	70-132	
Chlorobenzene	20.0	19.3	97	80-120	
Dibromochloromethane	20.0	19.4	97	73-120	
Chloroethane	20.0	22.6	113	52-150	
Chloroform	20.0	19.8	99	80-120	
Chloromethane	20.0	33.2	166	56-131	*
cis-1,2-Dichloroethene	20.0	19.0	95	80-120	
Cyclohexane	20.0	15.9	79	56-150	
Bromodichloromethane	20.0	19.0	95	76-120	
Dichlorodifluoromethane	20.0	20.8	104	50-131	
Ethylbenzene	20.0	19.7	99	80-120	
1,2-Dibromoethane	20.0	15.8	79	80-120	*
Isopropylbenzene	20.0	19.3	96	80-123	
Methyl acetate	40.0	41.9	105	66-144	
Methyl tert-butyl ether	20.0	13.8	69	79-122	*
Methylcyclohexane	20.0	17.5	88	61-145	
Methylene Chloride	20.0	15.8	79	77-123	
Tetrachloroethene	20.0	19.7	98	78-122	
Toluene	20.0	21.0	105	80-120	
trans-1,2-Dichloroethene	20.0	15.9	80	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N68528.D

Lab ID: LCS 460-533092/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.6	98	76-120	
Trichloroethene	20.0	19.8	99	77-120	
Trichlorofluoromethane	20.0	20.7	104	71-143	
Vinyl chloride	20.0	19.5	97	62-138	
cis-1,3-Dichloropropene	20.0	19.8	99	77-120	
Styrene	20.0	18.7	94	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86036.D

Lab ID: LCS 460-533363/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.6	108	80-125	
1,1,2,2-Tetrachloroethane	20.0	16.4	82	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.0	115	78-132	
1,1,2-Trichloroethane	20.0	18.2	91	76-124	
1,1-Dichloroethane	20.0	21.2	106	80-124	
1,1-Dichloroethene	20.0	20.4	102	79-132	
1,2,4-Trichlorobenzene	20.0	18.7	94	74-124	
1,2-Dibromo-3-Chloropropane	20.0	13.7	69	65-129	
1,2-Dichlorobenzene	20.0	18.6	93	80-121	
1,2-Dichloroethane	20.0	21.0	105	68-120	
1,2-Dichloropropane	20.0	20.0	100	77-124	
1,3-Dichlorobenzene	20.0	18.2	91	79-124	
1,4-Dichlorobenzene	20.0	18.1	91	79-121	
2-Butanone (MEK)	100	89.2	89	61-140	
2-Hexanone	100	91.3	91	78-120	
4-Methyl-2-pentanone (MIBK)	100	93.5	93	80-120	
Acetone	100	94.0	94	75-120	
Benzene	20.0	18.3	92	75-127	
Bromoform	20.0	14.0	70	19-150	
Bromomethane	20.0	25.6	128	59-136	
Carbon disulfide	20.0	19.8	99	74-130	
Carbon tetrachloride	20.0	20.5	103	77-138	
Chlorobenzene	20.0	18.8	94	80-120	
Dibromochloromethane	20.0	14.9	75	67-143	
Chloroethane	20.0	26.1	131	50-139	
Chloroform	20.0	21.7	108	80-122	
Chloromethane	20.0	23.6	118	66-128	
cis-1,2-Dichloroethene	20.0	20.5	103	80-123	
Cyclohexane	20.0	20.5	102	67-135	
Bromodichloromethane	20.0	19.0	95	76-129	
Dichlorodifluoromethane	20.0	22.0	110	72-127	
Ethylbenzene	20.0	18.0	90	79-124	
1,2-Dibromoethane	20.0	17.7	89	80-122	
Isopropylbenzene	20.0	18.7	94	80-125	
Methyl acetate	40.0	36.7	92	73-123	
Methyl tert-butyl ether	20.0	20.2	101	80-120	
Methylcyclohexane	20.0	20.7	104	71-137	
Methylene Chloride	20.0	20.3	102	79-128	
Tetrachloroethene	20.0	21.0	105	73-130	
Toluene	20.0	18.4	92	75-122	
trans-1,2-Dichloroethene	20.0	20.6	103	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86036.D

Lab ID: LCS 460-533363/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	16.5	83	72-121	
Trichloroethene	20.0	20.6	103	79-122	
Trichlorofluoromethane	20.0	25.5	127	68-136	
Vinyl chloride	20.0	24.1	121	70-134	
cis-1,3-Dichloropropene	20.0	16.8	84	75-124	
Styrene	20.0	18.2	91	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67239.D

Lab ID: LCS 460-533394/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	17.4	87	75-125	
1,1,2,2-Tetrachloroethane	20.0	16.8	84	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.1	90	59-150	
1,1,2-Trichloroethane	20.0	16.6	83	78-120	
1,1-Dichloroethane	20.0	17.3	86	77-123	
1,1-Dichloroethene	20.0	17.1	86	74-123	
1,2,4-Trichlorobenzene	20.0	20.8	104	80-124	
1,2-Dibromo-3-Chloropropane	20.0	16.3	82	55-134	
1,2-Dichlorobenzene	20.0	19.2	96	80-120	
1,2-Dichloroethane	20.0	16.6	83	76-121	
1,2-Dichloropropane	20.0	17.6	88	77-123	
1,3-Dichlorobenzene	20.0	18.5	92	80-120	
1,4-Dichlorobenzene	20.0	19.2	96	80-120	
2-Butanone (MEK)	100	96.7	97	64-120	
2-Hexanone	100	83.7	84	71-125	
4-Methyl-2-pentanone (MIBK)	100	91.6	92	78-124	
Acetone	100	86.8	87	39-150	
Benzene	20.0	16.9	85	77-121	
Bromoform	20.0	20.3	101	53-120	
Bromomethane	20.0	18.2	91	10-150	
Carbon disulfide	20.0	17.1	86	69-133	
Carbon tetrachloride	20.0	18.5	93	70-132	
Chlorobenzene	20.0	18.5	92	80-120	
Dibromochloromethane	20.0	18.0	90	73-120	
Chloroethane	20.0	17.3	86	52-150	
Chloroform	20.0	17.9	89	80-120	
Chloromethane	20.0	16.2	81	56-131	
cis-1,2-Dichloroethene	20.0	18.9	94	80-120	
Cyclohexane	20.0	18.8	94	56-150	
Bromodichloromethane	20.0	17.4	87	76-120	
Dichlorodifluoromethane	20.0	16.9	84	50-131	
Ethylbenzene	20.0	17.3	86	80-120	
1,2-Dibromoethane	20.0	17.5	88	80-120	
Isopropylbenzene	20.0	18.7	94	80-123	
Methyl acetate	40.0	34.5	86	66-144	
Methyl tert-butyl ether	20.0	18.3	92	79-122	
Methylcyclohexane	20.0	18.2	91	61-145	
Methylene Chloride	20.0	18.2	91	77-123	
Tetrachloroethene	20.0	18.6	93	78-122	
Toluene	20.0	17.5	87	80-120	
trans-1,2-Dichloroethene	20.0	18.2	91	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67239.D

Lab ID: LCS 460-533394/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	16.3	81	76-120	
Trichloroethene	20.0	17.5	87	77-120	
Trichlorofluoromethane	20.0	16.4	82	71-143	
Vinyl chloride	20.0	17.1	86	62-138	
cis-1,3-Dichloropropene	20.0	16.2	81	77-120	
Styrene	20.0	19.2	96	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N68529.D

Lab ID: LCSD 460-533092/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.8	114	14	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	17.7	88	15	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4	97	13	30	59-150	
1,1,2-Trichloroethane	20.0	16.8	84	7	30	78-120	
1,1-Dichloroethane	20.0	22.7	113	23	30	77-123	
1,1-Dichloroethene	20.0	20.1	100	16	30	74-123	
1,2,4-Trichlorobenzene	20.0	18.8	94	3	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	14.1	71	2	30	55-134	
1,2-Dichlorobenzene	20.0	20.0	100	7	30	80-120	
1,2-Dichloroethane	20.0	17.3	87	9	30	76-121	
1,2-Dichloropropane	20.0	22.0	110	18	30	77-123	
1,3-Dichlorobenzene	20.0	21.4	107	11	30	80-120	
1,4-Dichlorobenzene	20.0	21.5	107	8	30	80-120	
2-Butanone (MEK)	100	112	112	4	30	64-120	
2-Hexanone	100	94.0	94	10	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	93.2	93	1	30	78-124	
Acetone	100	110	110	17	30	39-150	
Benzene	20.0	22.2	111	2	30	77-121	
Bromoform	20.0	18.0	90	12	30	53-120	
Bromomethane	20.0	21.5	108	6	30	10-150	
Carbon disulfide	20.0	19.6	98	16	30	69-133	
Carbon tetrachloride	20.0	23.8	119	10	30	70-132	
Chlorobenzene	20.0	21.4	107	10	30	80-120	
Dibromochloromethane	20.0	19.0	95	2	30	73-120	
Chloroethane	20.0	22.0	110	3	30	52-150	
Chloroform	20.0	22.2	111	12	30	80-120	
Chloromethane	20.0	31.1	156	6	30	56-131	*
cis-1,2-Dichloroethene	20.0	22.6	113	17	30	80-120	
Cyclohexane	20.0	18.7	94	16	30	56-150	
Bromodichloromethane	20.0	21.2	106	11	30	76-120	
Dichlorodifluoromethane	20.0	20.5	102	1	30	50-131	
Ethylbenzene	20.0	20.9	104	6	30	80-120	
1,2-Dibromoethane	20.0	16.8	84	6	30	80-120	
Isopropylbenzene	20.0	20.6	103	7	30	80-123	
Methyl acetate	40.0	51.1	128	20	30	66-144	
Methyl tert-butyl ether	20.0	17.4	87	23	30	79-122	
Methylcyclohexane	20.0	18.5	92	5	30	61-145	
Methylene Chloride	20.0	21.0	105	28	30	77-123	
Tetrachloroethene	20.0	19.2	96	3	30	78-122	
Toluene	20.0	20.2	101	4	30	80-120	
trans-1,2-Dichloroethene	20.0	21.4	107	29	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Water Level: Low Lab File ID: N68529.D

Lab ID: LCSD 460-533092/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.0	95	3	30	76-120	
Trichloroethene	20.0	21.7	109	9	30	77-120	
Trichlorofluoromethane	20.0	20.5	102	1	30	71-143	
Vinyl chloride	20.0	20.4	102	4	30	62-138	
cis-1,3-Dichloropropene	20.0	19.8	99	0	30	77-120	
Styrene	20.0	19.5	97	4	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86037.D

Lab ID: LCSD 460-533363/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	22.3	111	3	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	16.1	80	2	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5	113	2	30	78-132	
1,1,2-Trichloroethane	20.0	18.6	93	2	30	76-124	
1,1-Dichloroethane	20.0	21.2	106	0	30	80-124	
1,1-Dichloroethene	20.0	21.6	108	5	30	79-132	
1,2,4-Trichlorobenzene	20.0	19.1	95	2	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	13.4	67	2	30	65-129	
1,2-Dichlorobenzene	20.0	18.7	94	1	30	80-121	
1,2-Dichloroethane	20.0	21.1	105	0	30	68-120	
1,2-Dichloropropane	20.0	19.7	98	2	30	77-124	
1,3-Dichlorobenzene	20.0	18.8	94	3	30	79-124	
1,4-Dichlorobenzene	20.0	18.6	93	2	30	79-121	
2-Butanone (MEK)	100	89.5	90	0	30	61-140	
2-Hexanone	100	90.8	91	1	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	93.1	93	0	30	80-120	
Acetone	100	99.6	100	6	30	75-120	
Benzene	20.0	18.9	95	3	30	75-127	
Bromoform	20.0	14.0	70	0	30	19-150	
Bromomethane	20.0	25.8	129	1	30	59-136	
Carbon disulfide	20.0	20.2	101	2	30	74-130	
Carbon tetrachloride	20.0	20.8	104	1	30	77-138	
Chlorobenzene	20.0	18.9	95	1	30	80-120	
Dibromochloromethane	20.0	15.5	77	4	30	67-143	
Chloroethane	20.0	24.9	124	5	30	50-139	
Chloroform	20.0	21.7	109	0	30	80-122	
Chloromethane	20.0	24.4	122	4	30	66-128	
cis-1,2-Dichloroethene	20.0	20.7	104	1	30	80-123	
Cyclohexane	20.0	20.1	100	2	30	67-135	
Bromodichloromethane	20.0	19.4	97	2	30	76-129	
Dichlorodifluoromethane	20.0	23.0	115	4	30	72-127	
Ethylbenzene	20.0	18.9	94	5	30	79-124	
1,2-Dibromoethane	20.0	17.7	89	0	30	80-122	
Isopropylbenzene	20.0	19.5	97	4	30	80-125	
Methyl acetate	40.0	38.1	95	4	30	73-123	
Methyl tert-butyl ether	20.0	21.0	105	4	30	80-120	
Methylcyclohexane	20.0	20.9	105	1	30	71-137	
Methylene Chloride	20.0	20.2	101	0	30	79-128	
Tetrachloroethene	20.0	21.4	107	2	30	73-130	
Toluene	20.0	18.7	94	2	30	75-122	
trans-1,2-Dichloroethene	20.0	20.7	104	1	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86037.D

Lab ID: LCSD 460-533363/5 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	16.9	85	2	30	72-121	
Trichloroethene	20.0	21.2	106	3	30	79-122	
Trichlorofluoromethane	20.0	25.1	125	2	30	68-136	
Vinyl chloride	20.0	24.6	123	2	30	70-134	
cis-1,3-Dichloropropene	20.0	17.4	87	3	30	75-124	
Styrene	20.0	18.1	90	0	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86060.D

Lab ID: 460-158997-4 MS Client ID: PDI-14MS-SO-55-06222018 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	17.1	ND	12.1	71	80-125	F1
1,1,2,2-Tetrachloroethane	17.1	ND	10.1	59	72-131	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	17.1	ND	12.9	75	78-132	F1
1,1,2-Trichloroethane	17.1	ND	11.4	67	76-124	F1
1,1-Dichloroethane	17.1	ND	11.9	70	80-124	F1
1,1-Dichloroethene	17.1	ND	11.6	68	79-132	F1
1,2,4-Trichlorobenzene	17.1	ND	9.10	53	74-124	F1
1,2-Dibromo-3-Chloropropane	17.1	ND	8.40	49	65-129	F1
1,2-Dichlorobenzene	17.1	ND	9.93	58	80-121	F1
1,2-Dichloroethane	17.1	ND	12.6	74	68-120	
1,2-Dichloropropane	17.1	ND	11.4	67	77-124	F1
1,3-Dichlorobenzene	17.1	ND	9.77	57	79-124	F1
1,4-Dichlorobenzene	17.1	ND	9.57	56	79-121	F1
2-Butanone (MEK)	85.4	3.5 J	49.4	54	61-140	F1
2-Hexanone	85.4	ND	48.2	57	78-120	F1
4-Methyl-2-pentanone (MIBK)	85.4	ND	49.4	58	80-120	F1
Acetone	85.4	17	79.2	73	75-120	F1
Benzene	17.1	ND	10.3	61	75-127	F1
Bromoform	17.1	ND	7.97	47	19-150	
Bromomethane	17.1	ND	16.1	95	59-136	
Carbon disulfide	17.1	ND	10.9	64	74-130	F1
Carbon tetrachloride	17.1	ND	11.1	65	77-138	F1
Chlorobenzene	17.1	ND	10.2	60	80-120	F1
Dibromochloromethane	17.1	ND	8.38	49	67-143	F1
Chloroethane	17.1	ND	15.9	93	50-139	
Chloroform	17.1	ND	12.3	72	80-122	F1
Chloromethane	17.1	ND	15.2	89	66-128	
cis-1,2-Dichloroethene	17.1	0.30 J	11.9	68	80-123	F1
Cyclohexane	17.1	ND	11.0	64	67-135	F1
Bromodichloromethane	17.1	ND	11.1	65	76-129	F1
Dichlorodifluoromethane	17.1	ND	14.0	82	72-127	
Ethylbenzene	17.1	ND	10.2	60	79-124	F1
1,2-Dibromoethane	17.1	ND	10.4	61	80-122	F1
Isopropylbenzene	17.1	ND	9.98	58	80-125	F1
Methyl acetate	34.1	ND	19.3	57	73-123	F1
Methyl tert-butyl ether	17.1	ND	12.2	71	80-120	F1
Methylcyclohexane	17.1	ND	11.5	67	71-137	F1
Methylene Chloride	17.1	0.32 J	11.9	68	79-128	F1
Tetrachloroethene	17.1	0.53 J	11.4	64	73-130	F1
Toluene	17.1	ND	10.2	60	75-122	F1
trans-1,2-Dichloroethene	17.1	ND	11.2	66	80-129	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86060.D

Lab ID: 460-158997-4 MS Client ID: PDI-14MS-SO-55-06222018 MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	17.1	ND	9.62	56	72-121	F1
Trichloroethene	17.1	8.5	15.6	42	79-122	F1
Trichlorofluoromethane	17.1	ND	16.4	96	68-136	
Vinyl chloride	17.1	ND	15.1	88	70-134	
cis-1,3-Dichloropropene	17.1	ND	9.60	56	75-124	F1
Styrene	17.1	ND	9.71	57	78-123	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86061.D

Lab ID: 460-158997-4 MSD Client ID: PDI-14MSD-SO-55-06222018 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	16.4	13.2	81	9	30	80-125	
1,1,2,2-Tetrachloroethane	16.4	10.8	66	7	30	72-131	F1
1,1,2-Trichloro-1,2,2-trifluoroethane	16.4	14.0	85	8	30	78-132	
1,1,2-Trichloroethane	16.4	11.9	72	5	30	76-124	F1
1,1-Dichloroethane	16.4	13.1	80	10	30	80-124	
1,1-Dichloroethene	16.4	12.4	75	6	30	79-132	F1
1,2,4-Trichlorobenzene	16.4	10.0	61	10	30	74-124	F1
1,2-Dibromo-3-Chloropropane	16.4	8.90	54	6	30	65-129	F1
1,2-Dichlorobenzene	16.4	11.1	67	11	30	80-121	F1
1,2-Dichloroethane	16.4	13.9	85	10	30	68-120	
1,2-Dichloropropane	16.4	12.5	76	9	30	77-124	F1
1,3-Dichlorobenzene	16.4	10.7	65	9	30	79-124	F1
1,4-Dichlorobenzene	16.4	10.6	65	10	30	79-121	F1
2-Butanone (MEK)	82.0	54.9	63	11	30	61-140	
2-Hexanone	82.0	53.8	66	11	30	78-120	F1
4-Methyl-2-pentanone (MIBK)	82.0	54.5	67	10	30	80-120	F1
Acetone	82.0	78.3	75	1	30	75-120	
Benzene	16.4	11.5	70	10	30	75-127	F1
Bromoform	16.4	8.66	53	8	30	19-150	
Bromomethane	16.4	17.3	106	7	30	59-136	
Carbon disulfide	16.4	12.2	74	11	30	74-130	
Carbon tetrachloride	16.4	12.3	75	10	30	77-138	F1
Chlorobenzene	16.4	11.2	68	9	30	80-120	F1
Dibromochloromethane	16.4	9.27	57	10	30	67-143	F1
Chloroethane	16.4	17.2	105	8	30	50-139	
Chloroform	16.4	13.4	82	8	30	80-122	
Chloromethane	16.4	15.6	95	3	30	66-128	
cis-1,2-Dichloroethene	16.4	12.7	76	7	30	80-123	F1
Cyclohexane	16.4	11.4	70	4	30	67-135	
Bromodichloromethane	16.4	11.9	73	7	30	76-129	F1
Dichlorodifluoromethane	16.4	14.7	90	5	30	72-127	
Ethylbenzene	16.4	10.5	64	4	30	79-124	F1
1,2-Dibromoethane	16.4	11.5	70	10	30	80-122	F1
Isopropylbenzene	16.4	10.9	66	9	30	80-125	F1
Methyl acetate	32.8	21.9	67	12	30	73-123	F1
Methyl tert-butyl ether	16.4	13.4	81	9	30	80-120	
Methylcyclohexane	16.4	12.4	75	7	30	71-137	
Methylene Chloride	16.4	12.9	77	8	30	79-128	F1
Tetrachloroethene	16.4	12.4	72	8	30	73-130	F1
Toluene	16.4	11.2	68	9	30	75-122	F1
trans-1,2-Dichloroethene	16.4	12.0	73	7	30	80-129	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86061.D

Lab ID: 460-158997-4 MSD Client ID: PDI-14MSD-SO-55-06222018 MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	16.4	10.5	64	9	30	72-121	F1
Trichloroethene	16.4	16.1	46	3	30	79-122	F1
Trichlorofluoromethane	16.4	16.6	101	1	30	68-136	
Vinyl chloride	16.4	15.7	96	4	30	70-134	
cis-1,3-Dichloropropene	16.4	10.6	65	10	30	75-124	F1
Styrene	16.4	10.4	64	7	30	78-123	F1

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: K86040.D Lab Sample ID: MB 460-533363/8

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS9 Date Analyzed: 07/04/2018 02:37

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-533363/4	K86036.D	07/04/2018 00:59
	LCSD 460-533363/5	K86037.D	07/04/2018 01:24
PDI-14-SO-55-06222018	460-158997-4	K86051.D	07/04/2018 07:06
PDI-14MS-SO-55-06222018 MS	460-158997-4 MS	K86060.D	07/04/2018 10:45
PDI-14MSD-SO-55-06222018 MSD	460-158997-4 MSD	K86061.D	07/04/2018 11:10

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: N68532.D Lab Sample ID: MB 460-533092/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS11 Date Analyzed: 07/03/2018 10:17

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-533092/4	N68528.D	07/03/2018 08:48
	LCSD 460-533092/5	N68529.D	07/03/2018 09:10
PDI-TB-06222018	460-158997-1	N68535.D	07/03/2018 11:23
PDI-FB-06222018	460-158997-2	N68536.D	07/03/2018 11:46

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: F67243.D Lab Sample ID: MB 460-533394/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS6 Date Analyzed: 07/04/2018 10:02

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-533394/4	F67239.D	07/04/2018 08:25
PDI-14-WG-75-06222018	460-158997-3	F67263.D	07/04/2018 17:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: N672370.D BFB Injection Date: 06/05/2018

Instrument ID: CVOAMS11 BFB Injection Time: 08:14

Analysis Batch No.: 525211

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	41.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.6	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	82.6	
175	5.0 - 9.0 % of mass 174	6.1	(7.4) 1
176	95.0 - 101.0 % of mass 174	80.3	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-525211/3	N672372.D	06/05/2018	09:01
	STD1 460-525211/4	N672373.D	06/05/2018	09:24
	STD5 460-525211/5	N672374.D	06/05/2018	09:47
	STD20 460-525211/6	N672375.D	06/05/2018	10:10
	STD50 460-525211/7	N672376.D	06/05/2018	10:33
	STD200 460-525211/8	N672377.D	06/05/2018	10:55
	STD500 460-525211/9	N672378.D	06/05/2018	11:19

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: N68525.D BFB Injection Date: 07/03/2018

Instrument ID: CVOAMS11 BFB Injection Time: 07:18

Analysis Batch No.: 533092

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.1	
75	30.0 - 60.0 % of mass 95	48.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.1	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	83.6	
175	5.0 - 9.0 % of mass 174	5.8	(7.0) 1
176	95.0 - 101.0 % of mass 174	81.9	(98.0) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-533092/3	N68527.D	07/03/2018	08:26
	LCS 460-533092/4	N68528.D	07/03/2018	08:48
	LCSD 460-533092/5	N68529.D	07/03/2018	09:10
	MB 460-533092/8	N68532.D	07/03/2018	10:17
PDI-TB-06222018	460-158997-1	N68535.D	07/03/2018	11:23
PDI-FB-06222018	460-158997-2	N68536.D	07/03/2018	11:46

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: F65703.D BFB Injection Date: 06/05/2018

Instrument ID: CVOAMS6 BFB Injection Time: 01:01

Analysis Batch No.: 525048

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.7	
75	30.0 - 60.0 % of mass 95	50.2	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.2	
173	Less than 2.0 % of mass 174	0.3	(0.4) 1
174	50.0 - 120.00 % of mass 95	76.6	
175	5.0 - 9.0 % of mass 174	6.3	(8.2) 1
176	95.0 - 101.0 % of mass 174	76.3	(99.6) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-525048/3	F65705.D	06/05/2018	02:24
	STD1 460-525048/5	F65707.D	06/05/2018	03:11
	STD5 460-525048/6	F65708.D	06/05/2018	03:35
	STD20 460-525048/7	F65709.D	06/05/2018	03:59
	STD50 460-525048/8	F65710.D	06/05/2018	04:22
	STD200 460-525048/9	F65711.D	06/05/2018	04:46
	STD500 460-525048/10	F65712.D	06/05/2018	05:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: F67236.D BFB Injection Date: 07/04/2018

Instrument ID: CVOAMS6 BFB Injection Time: 06:45

Analysis Batch No.: 533394

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	49.0	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	1.2	(1.3) 1
174	50.0 - 120.00 % of mass 95	93.8	
175	5.0 - 9.0 % of mass 174	7.4	(7.9) 1
176	95.0 - 101.0 % of mass 174	91.3	(97.3) 1
177	5.0 - 9.0 % of mass 176	6.4	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-533394/3	F67238.D	07/04/2018	07:37
	LCS 460-533394/4	F67239.D	07/04/2018	08:25
	MB 460-533394/8	F67243.D	07/04/2018	10:02
PDI-14-WG-75-06222018	460-158997-3	F67263.D	07/04/2018	17:54

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: K84639.D BFB Injection Date: 06/06/2018

Instrument ID: CVOAMS9 BFB Injection Time: 23:47

Analysis Batch No.: 525743

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.3	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	85.9	
175	5.0 - 9.0 % of mass 174	6.6	(7.7) 1
176	95.0 - 101.0 % of mass 174	85.3	(99.3) 1
177	5.0 - 9.0 % of mass 176	5.5	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-525743/3	K84641.D	06/07/2018	01:00
	STD5 460-525743/4	K84642.D	06/07/2018	01:25
	STD20 460-525743/5	K84643.D	06/07/2018	01:49
	STD50 460-525743/6	K84644.D	06/07/2018	02:14
	STD200 460-525743/7	K84645.D	06/07/2018	02:38
	STD500 460-525743/8	K84646.D	06/07/2018	03:02

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab File ID: K86033.D BFB Injection Date: 07/03/2018

Instrument ID: CVOAMS9 BFB Injection Time: 23:40

Analysis Batch No.: 533363

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.1	
75	30.0 - 60.0 % of mass 95	46.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	98.6	
175	5.0 - 9.0 % of mass 174	7.1	(7.2) 1
176	95.0 - 101.0 % of mass 174	96.0	(97.3) 1
177	5.0 - 9.0 % of mass 176	5.7	(6.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-533363/3	K86035.D	07/04/2018	00:34
	LCS 460-533363/4	K86036.D	07/04/2018	00:59
	LCSD 460-533363/5	K86037.D	07/04/2018	01:24
	MB 460-533363/8	K86040.D	07/04/2018	02:37
PDI-14-SO-55-06222018	460-158997-4	K86051.D	07/04/2018	07:06
PDI-14MS-SO-55-06222018 MS	460-158997-4 MS	K86060.D	07/04/2018	10:45
PDI-14MSD-SO-55-06222018 MSD	460-158997-4 MSD	K86061.D	07/04/2018	11:10

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533092/3 Date Analyzed: 07/03/2018 08:26

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): N68527.D Heated Purge: (Y/N) N

Calibration ID: 69251

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		146358	3.35	130350	4.75	588795	5.48
UPPER LIMIT		292716	3.85	260700	5.25	1177590	5.98
LOWER LIMIT		73179	2.85	65175	4.25	294398	4.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533092/4		135531	3.36	154970	4.75	665178	5.48
LCSD 460-533092/5		160354	3.35	157966	4.75	617829	5.48
MB 460-533092/8		128958	3.35	155322	4.74	648781	5.48
460-158997-1	PDI-TB-06222018	138113	3.37	145118	4.75	628742	5.48
460-158997-2	PDI-FB-06222018	114864	3.35	112217	4.75	484572	5.48

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533092/3 Date Analyzed: 07/03/2018 08:26

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): N68527.D Heated Purge: (Y/N) N

Calibration ID: 69251

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		19489	6.50	480374	9.25	254606	11.52
UPPER LIMIT		38978	7.00	960748	9.75	509212	12.02
LOWER LIMIT		9745	6.00	240187	8.75	127303	11.02
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533092/4		21141	6.50	462110	9.25	247899	11.52
LCSD 460-533092/5		20912	6.49	480133	9.25	263045	11.52
MB 460-533092/8		17116	6.49	437205	9.25	229293	11.52
460-158997-1	PDI-TB-06222018	16757	6.51	408345	9.26	174001	11.52
460-158997-2	PDI-FB-06222018	16737	6.49	403454	9.25	203790	11.52

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533394/3 Date Analyzed: 07/04/2018 07:37

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67238.D Heated Purge: (Y/N) N

Calibration ID: 69272

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		72793	3.19	67405	4.24	201745	5.32
UPPER LIMIT		145586	3.69	134810	4.74	403490	5.82
LOWER LIMIT		36397	2.69	33703	3.74	100873	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533394/4		65732	3.22	73482	4.24	211232	5.32
MB 460-533394/8		77360	3.20	67167	4.24	202214	5.32
460-158997-3	PDI-14-WG-75-06222018	79201	3.21	65825	4.24	195388	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533394/3 Date Analyzed: 07/04/2018 07:37

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67238.D Heated Purge: (Y/N) N

Calibration ID: 69272

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		6889	6.02	147928	8.76	92201	10.91
UPPER LIMIT		13778	6.52	295856	9.26	184402	11.41
LOWER LIMIT		3445	5.52	73964	8.26	46101	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533394/4		6858	6.03	155879	8.76	94718	10.91
MB 460-533394/8		6324	6.06	140493	8.76	87067	10.91
460-158997-3	PDI-14-WG-75-06222018	6475	6.03	135547	8.76	83041	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533363/3 Date Analyzed: 07/04/2018 00:34

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86035.D Heated Purge: (Y/N) Y

Calibration ID: 69283

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		376020	3.37	304673	4.44	487170	5.57
UPPER LIMIT		752040	3.87	609346	4.94	974340	6.07
LOWER LIMIT		188010	2.87	152337	3.94	243585	5.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533363/4		418962	3.38	322534	4.45	501013	5.57
LCSD 460-533363/5		412686	3.37	326157	4.45	517772	5.57
MB 460-533363/8		337316	3.35	269382	4.44	419276	5.57
460-158997-4	PDI-14-SO-55-06222018	636958	3.36	468734	4.44	472517	5.57
460-158997-4 MS	PDI-14MS-SO-55-062220 18 MS	505140	3.36	390530	4.45	486176	5.57
460-158997-4 MSD	PDI-14MSD-SO-55-06222 018 MSD	489768	3.36	379031	4.45	486458	5.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Sample No.: CCVIS 460-533363/3 Date Analyzed: 07/04/2018 00:34

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86035.D Heated Purge: (Y/N) Y

Calibration ID: 69283

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31112	6.27	425368	9.06	267052	11.50
UPPER LIMIT		62224	6.77	850736	9.56	534104	12.00
LOWER LIMIT		15556	5.77	212684	8.56	133526	11.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-533363/4		33562	6.28	446438	9.06	272017	11.50
LCSD 460-533363/5		31746	6.27	449848	9.06	275883	11.50
MB 460-533363/8		27120	6.27	365148	9.06	222746	11.50
460-158997-4	PDI-14-SO-55-06222018	45209	6.27	421159	9.06	259751	11.50
460-158997-4 MS	PDI-14MS-SO-55-062220 18 MS	38080	6.27	431048	9.06	263926	11.50
460-158997-4 MSD	PDI-14MSD-SO-55-06222 018 MSD	36471	6.27	427951	9.06	261154	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-TB-06222018 | Lab Sample ID: 460-158997-1

Matrix: Water | Lab File ID: N68535.D

Analysis Method: 8260C | Date Collected: 06/22/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 11:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND	*	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND	*	1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-TB-06222018 | Lab Sample ID: 460-158997-1

Matrix: Water | Lab File ID: N68535.D

Analysis Method: 8260C | Date Collected: 06/22/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 11:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	*	1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		74-132
460-00-4	4-Bromofluorobenzene	80		77-124
2037-26-5	Toluene-d8 (Surr)	107		80-120
1868-53-7	Dibromofluoromethane (Surr)	93		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D
Lims ID: 460-158997-B-1
Client ID: PDI-TB-06222018
Sample Type: Client
Inject. Date: 03-Jul-2018 11:23:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-1
Misc. Info.: 460-0074795-011
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 13:48:14 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:54:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	3.366	3.353	0.013	38	138113	1000.0	
$ 51 Dibromofluoromethane (Surr	113	4.686	4.680	0.006	95	140471	46.4	
* 39 2-Butanone-d5	46	4.753	4.753	0.000	0	145118	250.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.203	5.203	0.000	96	131049	43.4	
* 62 Fluorobenzene	96	5.483	5.483	0.000	100	628742	50.0	
* 68 1,4-Dioxane-d8	96	6.505	6.499	0.006	30	16757	1000.0	
$ 79 Toluene-d8 (Surr)	98	7.271	7.265	0.006	99	558546	53.3	
* 90 Chlorobenzene-d5	117	9.255	9.254	0.001	84	408345	50.0	
$ 101 4-Bromofluorobenzene	174	10.532	10.532	0.000	93	132427	39.8	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	96	174001	50.0	

Reagents:

8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00176 Amount Added: 1.00 Units: uL Run Reagent

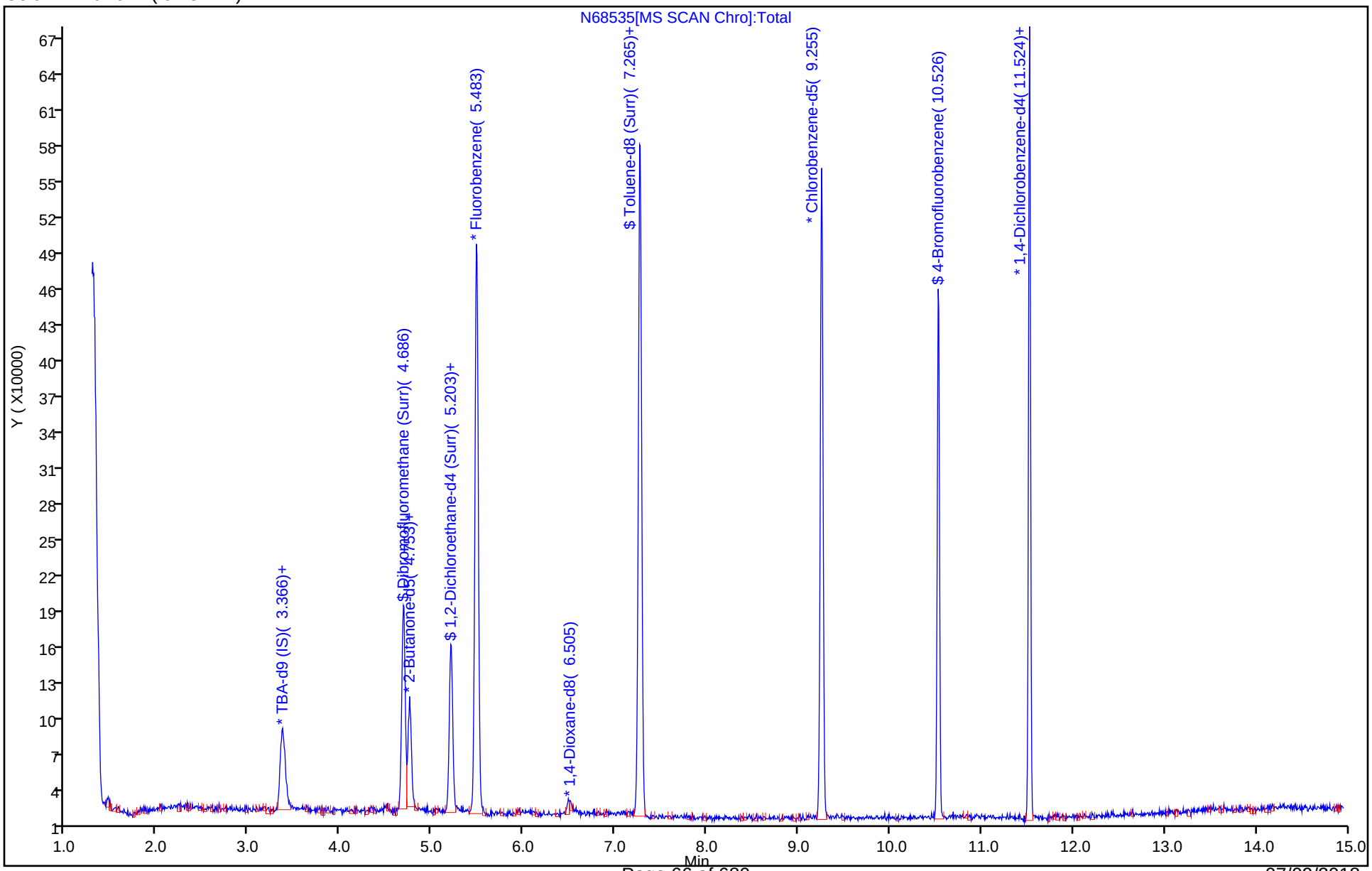
Report Date: 03-Jul-2018 13:49:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D

Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1	Worklist Smp#:	11
Client ID:	PDI-TB-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



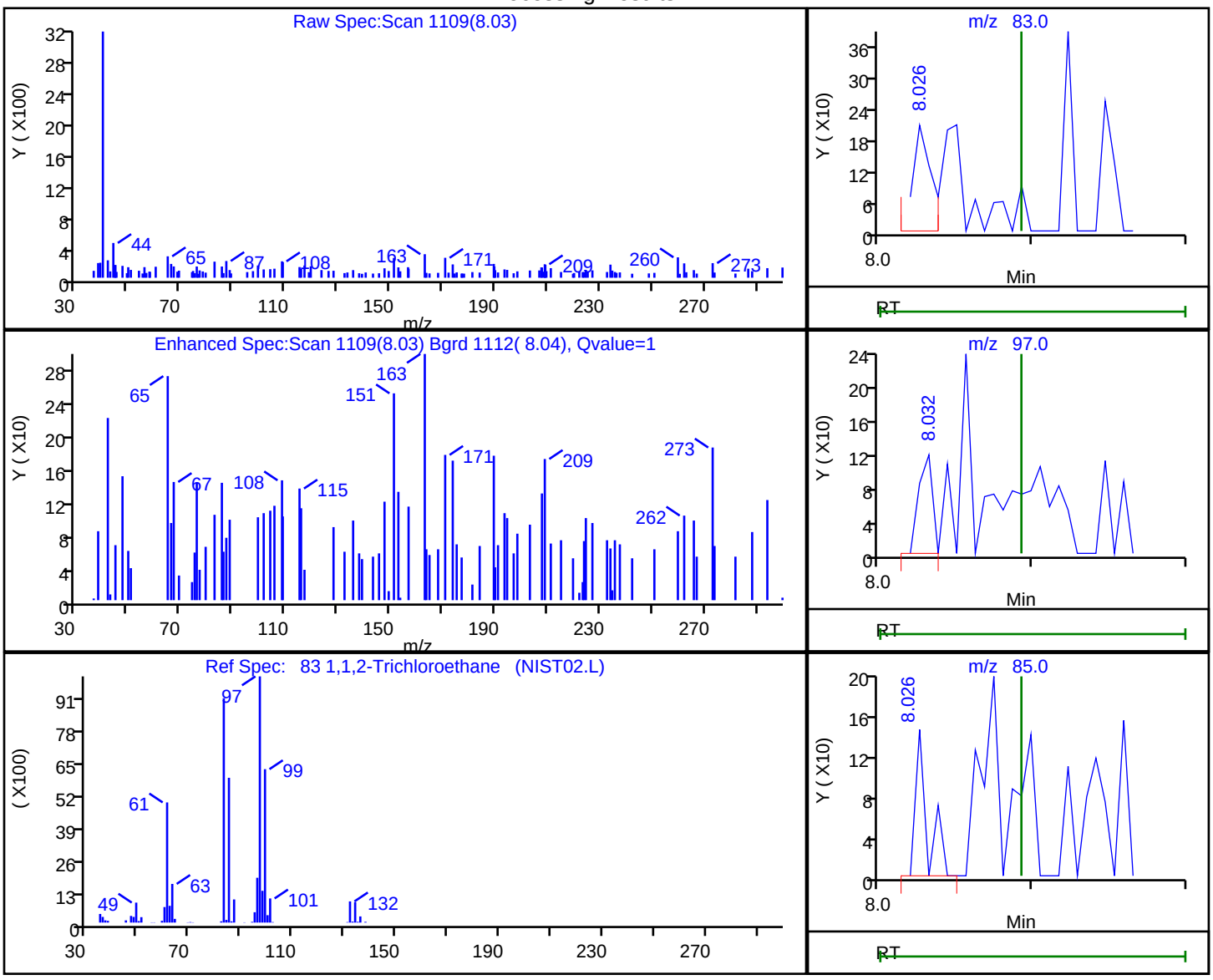
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D				
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1		
Client ID:	PDI-TB-06222018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
8.03	83.00	169	0.091001
8.03	97.00	74	
8.03	85.00	110	

Reviewer: delpolitov, 03-Jul-2018 12:54:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

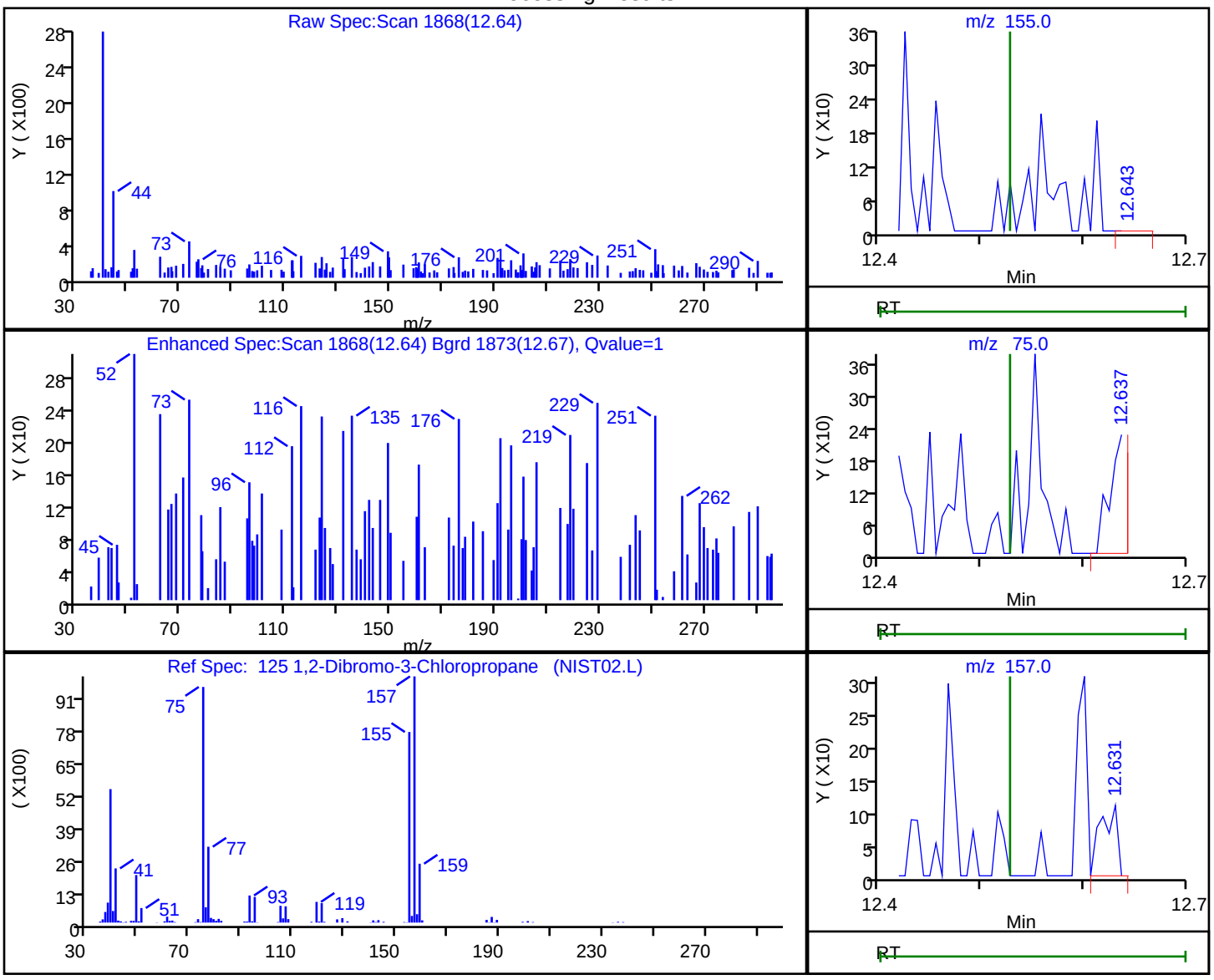
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D		
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1
Client ID:	PDI-TB-06222018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
12.64	155.00	97	0.263959
12.64	75.00	216	
12.63	157.00	123	

Reviewer: delpolitov, 03-Jul-2018 12:54:25

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

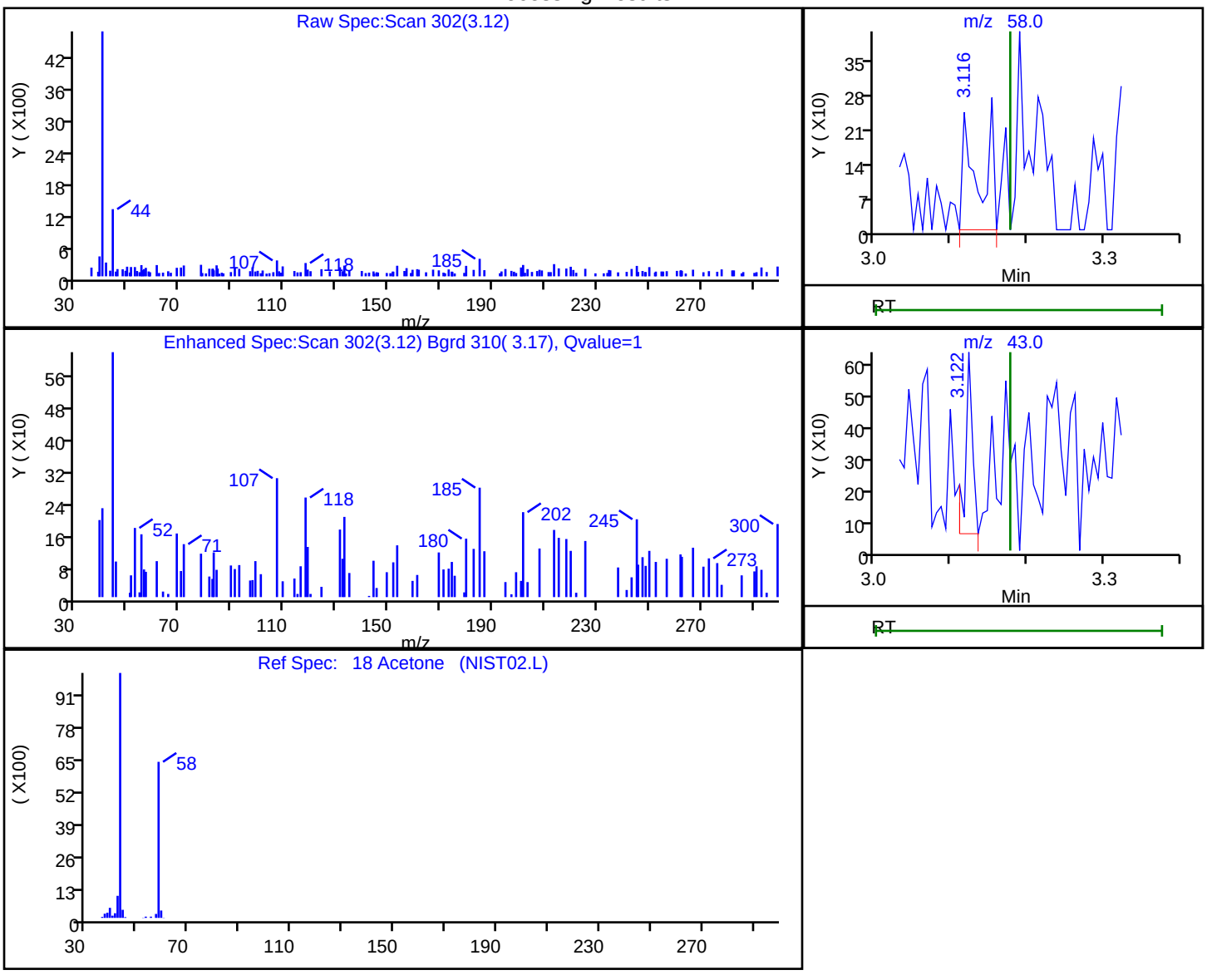
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D		
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1
Client ID:	PDI-TB-06222018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

18 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.12	58.00	349	2.372434
3.12	43.00	373	

Reviewer: delpolitov, 03-Jul-2018 12:54:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

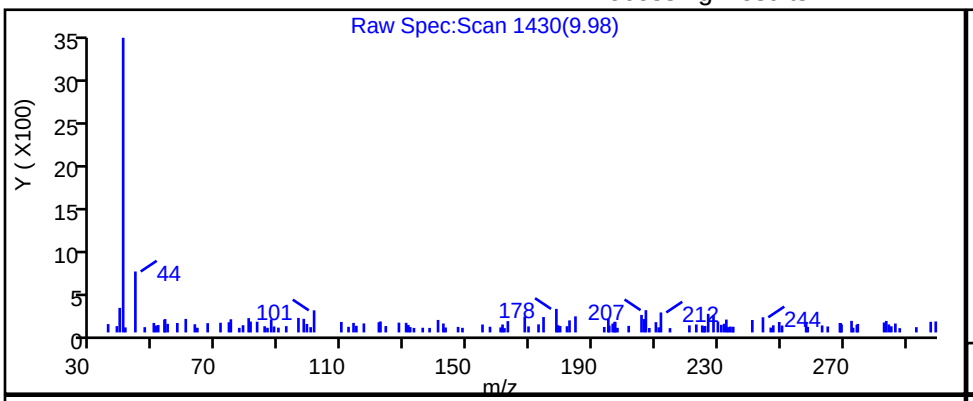
User Disabled Compound Report

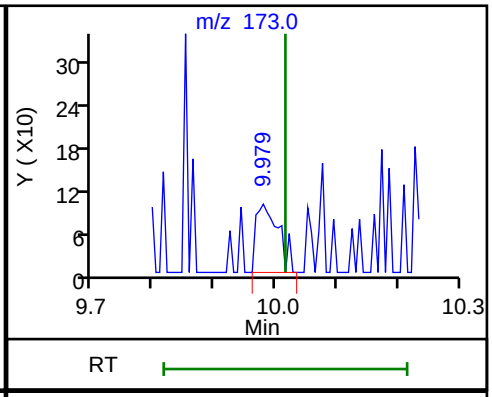
TestAmerica Edison

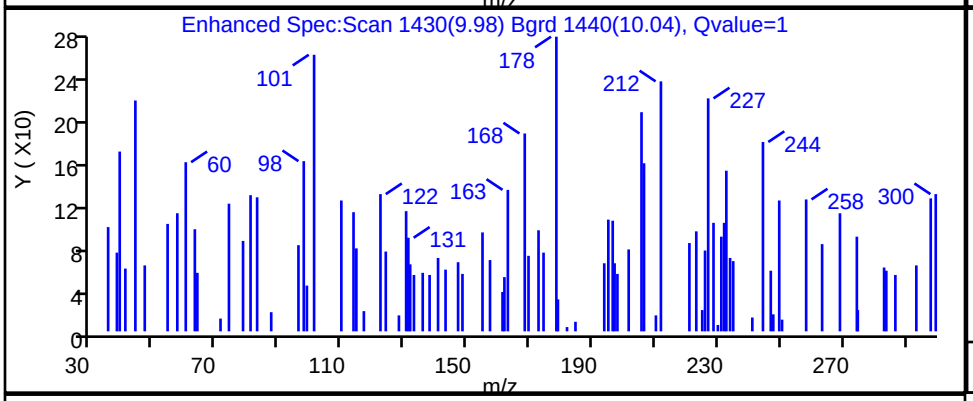
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D		
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1
Client ID:	PDI-TB-06222018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

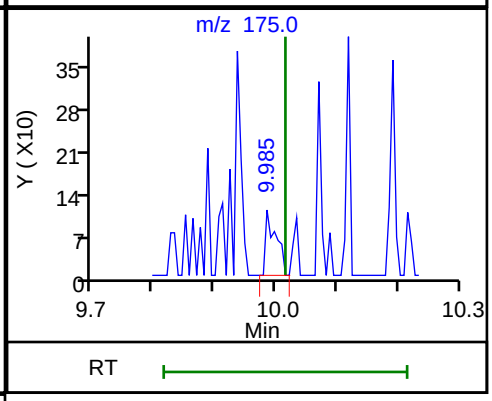
99 Bromoform, CAS: 75-25-2

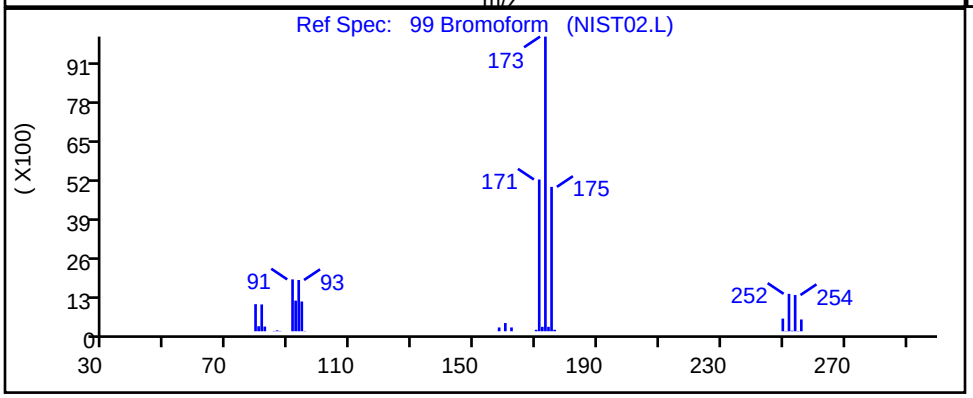
Processing Results











RT	Mass	Response	Amount
9.98	173.00	243	0.254415
9.98	175.00	130	

Reviewer: delpolitov, 03-Jul-2018 12:54:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

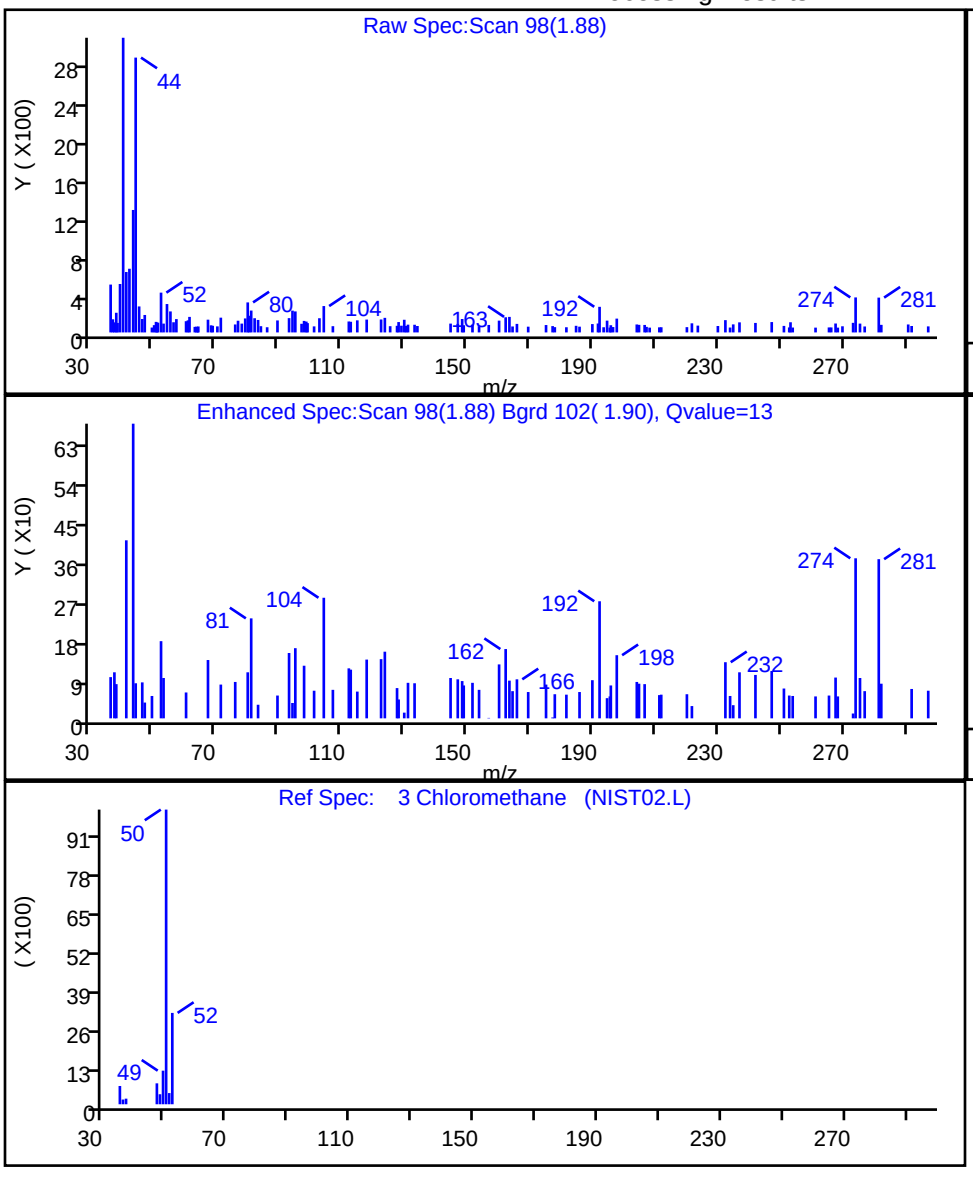
User Disabled Compound Report

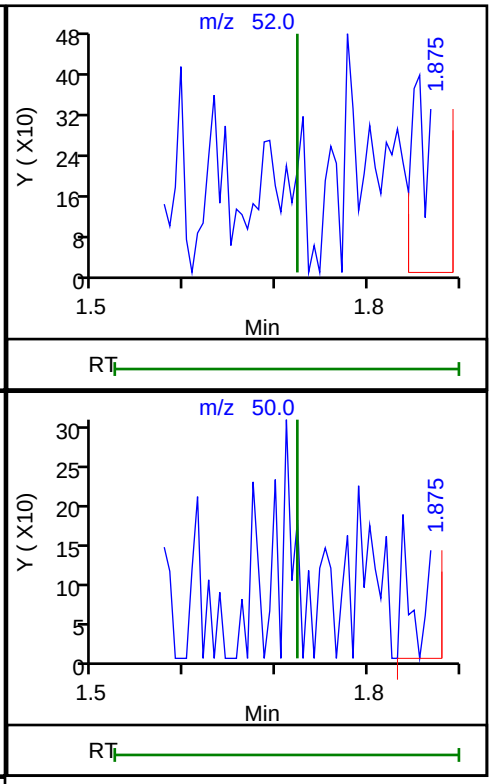
TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D		
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1
Client ID:	PDI-TB-06222018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results





RT	Mass	Response	Amount
1.88	52.00	810	0.893424
1.88	50.00	282	

Reviewer: delpolitov, 03-Jul-2018 12:54:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

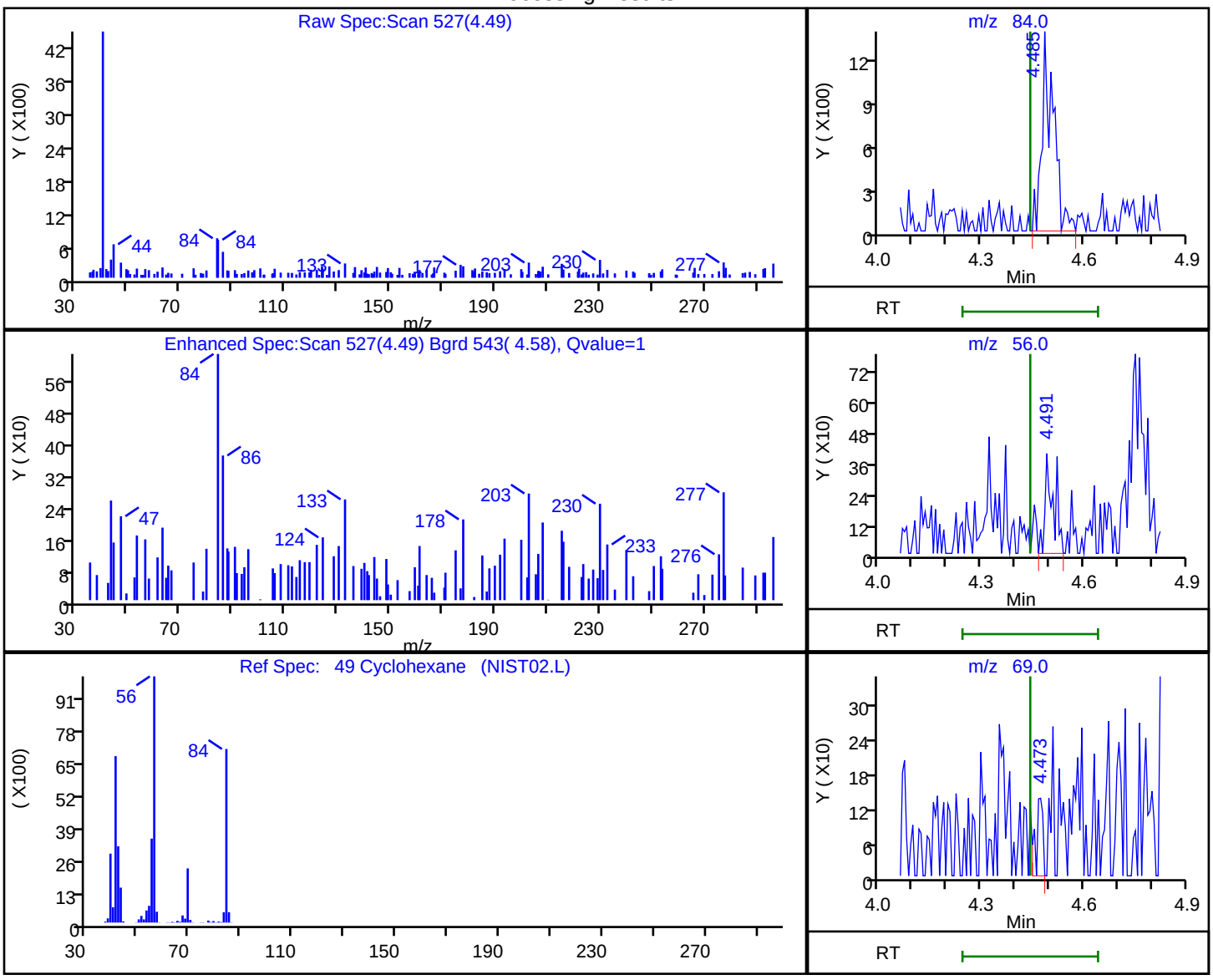
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68535.D				
Injection Date:	03-Jul-2018 11:23:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-1	Lab Sample ID:	460-158997-1		
Client ID:	PDI-TB-06222018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.49	84.00	3302	0.472760
4.49	56.00	692	
4.47	69.00	184	

Reviewer: delpolitov, 03-Jul-2018 12:54:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-FB-06222018 | Lab Sample ID: 460-158997-2

Matrix: Water | Lab File ID: N68536.D

Analysis Method: 8260C | Date Collected: 06/22/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 11:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	16		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	16		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND	*	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND	*	1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-FB-06222018 | Lab Sample ID: 460-158997-2

Matrix: Water | Lab File ID: N68536.D

Analysis Method: 8260C | Date Collected: 06/22/2018 09:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 11:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	*	1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	5.2		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	86		74-132
460-00-4	4-Bromofluorobenzene	77		77-124
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D
Lims ID: 460-158997-B-2
Client ID: PDI-FB-06222018
Sample Type: Client
Inject. Date: 03-Jul-2018 11:46:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-2
Misc. Info.: 460-0074795-012
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 20:15:10 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:55:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	3.134	3.134	0.000	91	15684	5.16	
18 Acetone	58	3.171	3.177	-0.006	69	1861	16.4	
* 27 TBA-d9 (IS)	65	3.353	3.353	0.000	39	114864	1000.0	
$ 51 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	95	104380	44.8	
* 39 2-Butanone-d5	46	4.747	4.753	-0.006	0	112217	250.0	
41 2-Butanone (MEK)	72	4.832	4.807	0.025	21	2456	15.8	M
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.197	5.203	-0.006	97	99936	42.9	
* 62 Fluorobenzene	96	5.483	5.483	0.000	99	484572	50.0	
* 68 1,4-Dioxane-d8	96	6.486	6.499	-0.013	31	16737	1000.0	
$ 79 Toluene-d8 (Surr)	98	7.265	7.265	0.000	99	462336	44.7	
* 90 Chlorobenzene-d5	117	9.254	9.254	0.000	84	403454	50.0	
$ 101 4-Bromofluorobenzene	174	10.532	10.532	0.000	90	126422	38.4	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	95	203790	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00176 Amount Added: 1.00 Units: uL Run Reagent

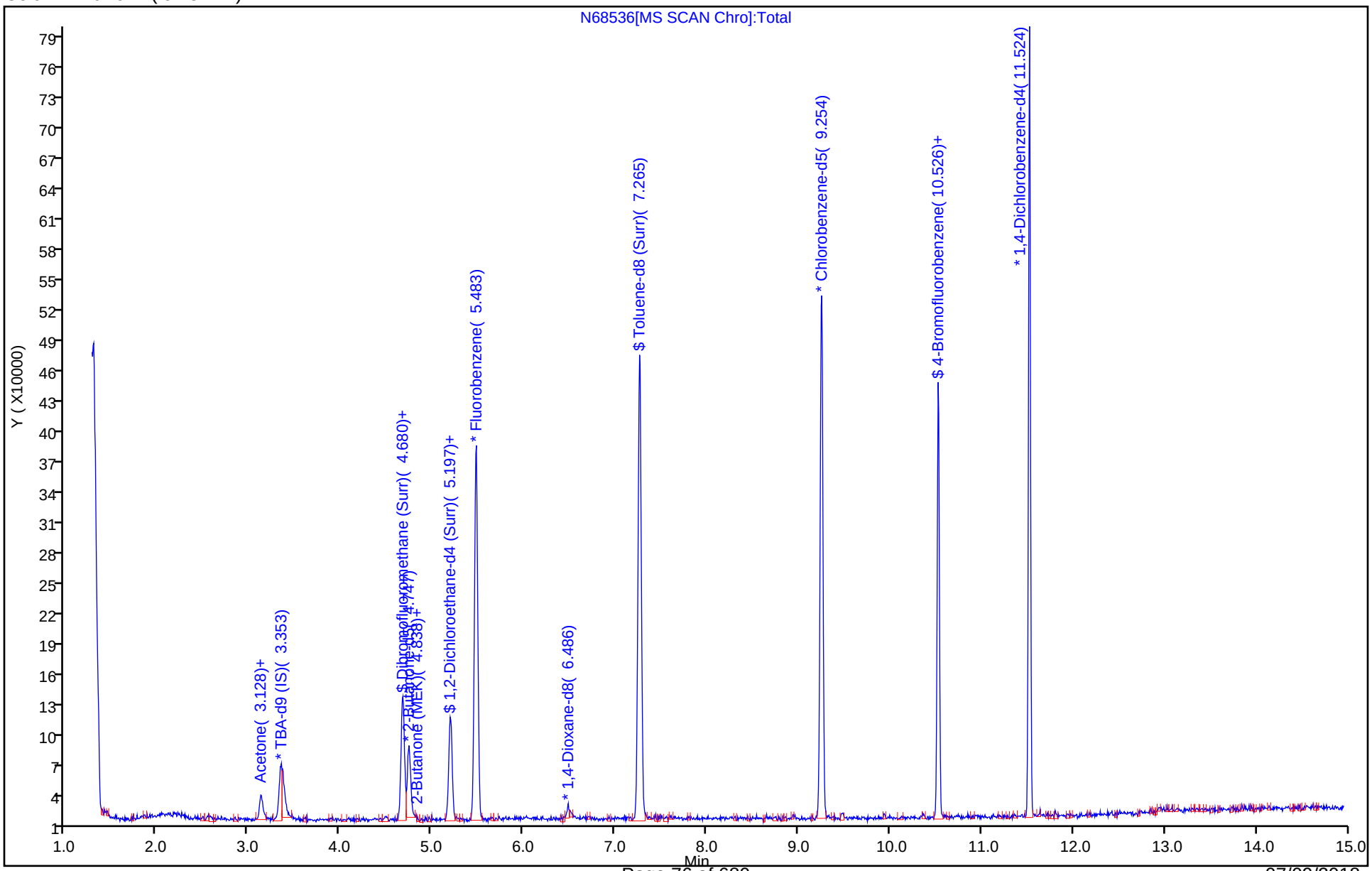
Report Date: 08-Jul-2018 20:15:11 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D

Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2	Worklist Smp#:	12
Client ID:	PDI-FB-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

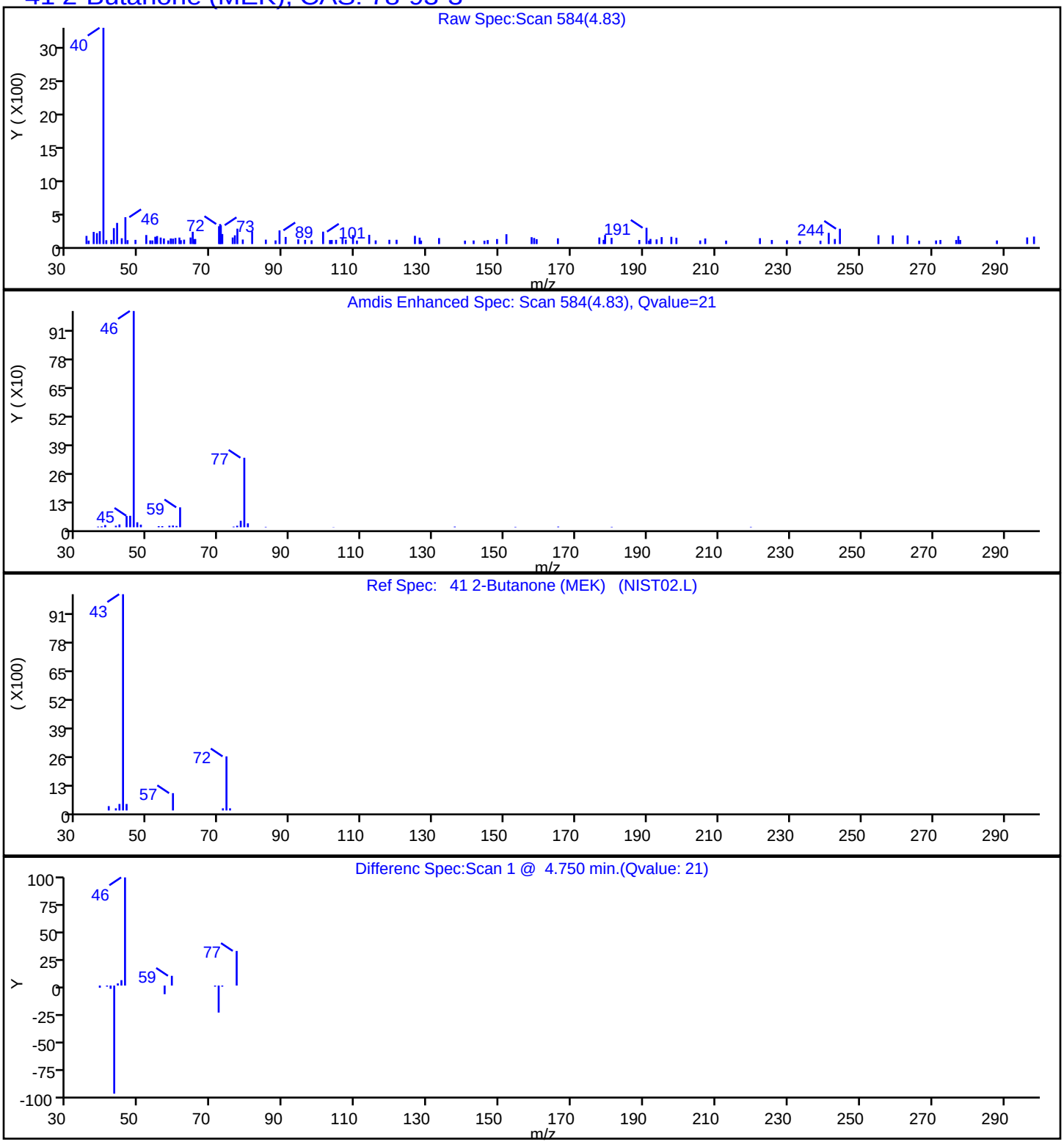
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

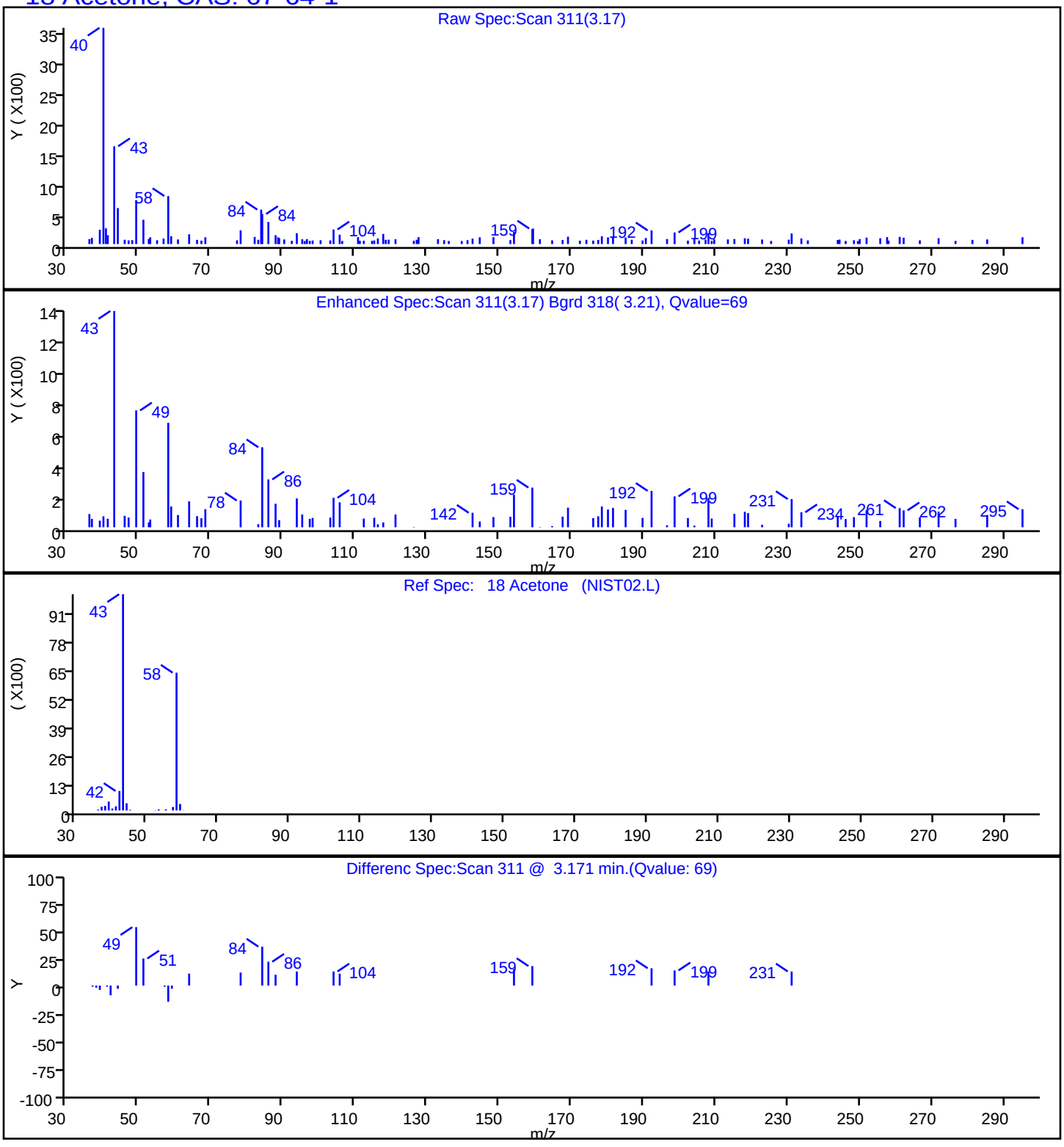
41 2-Butanone (MEK), CAS: 78-93-3



Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D

Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2		
Client ID:	PDI-FB-06222018				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

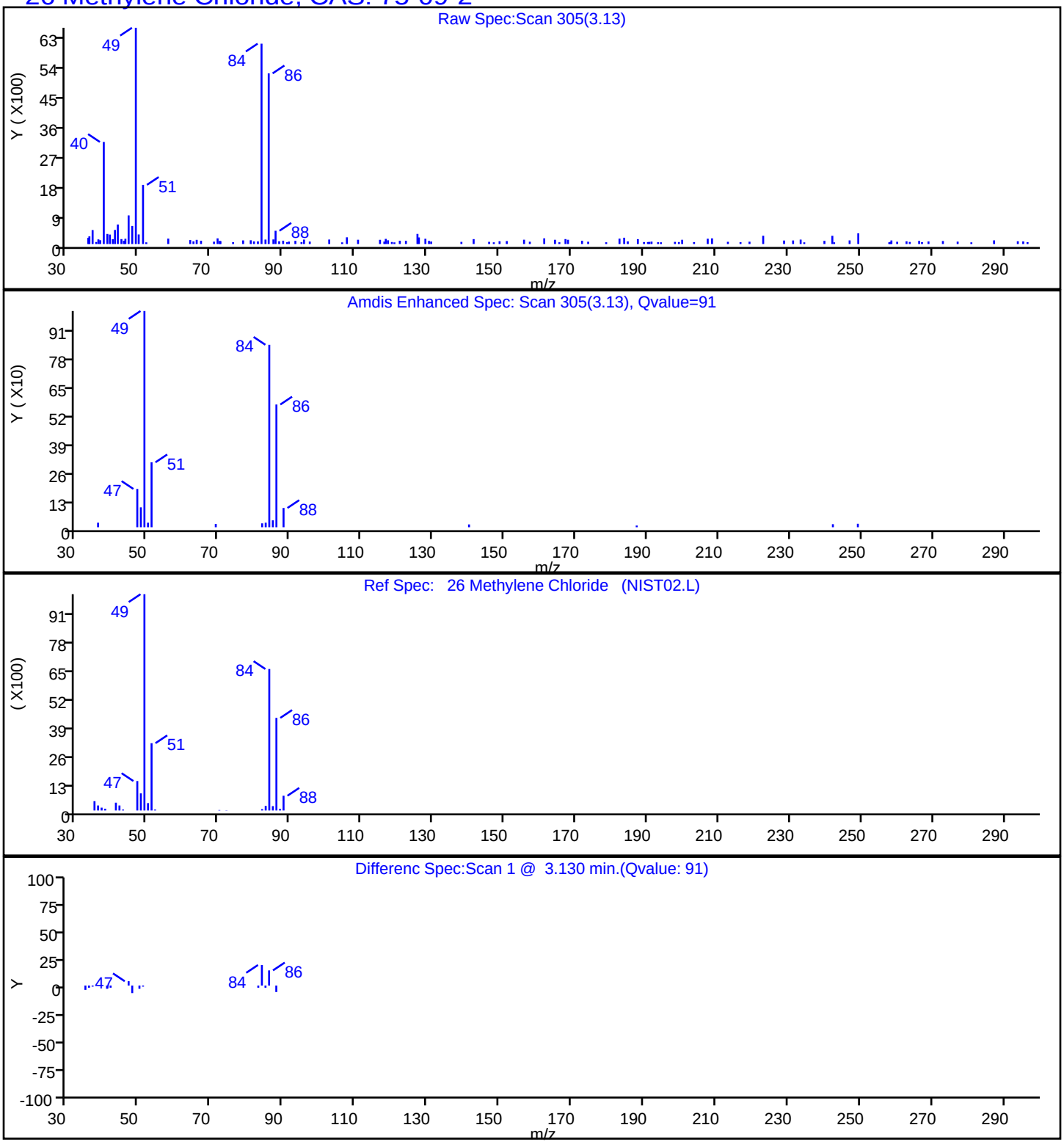
18 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D

Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

26 Methylene Chloride, CAS: 75-09-2



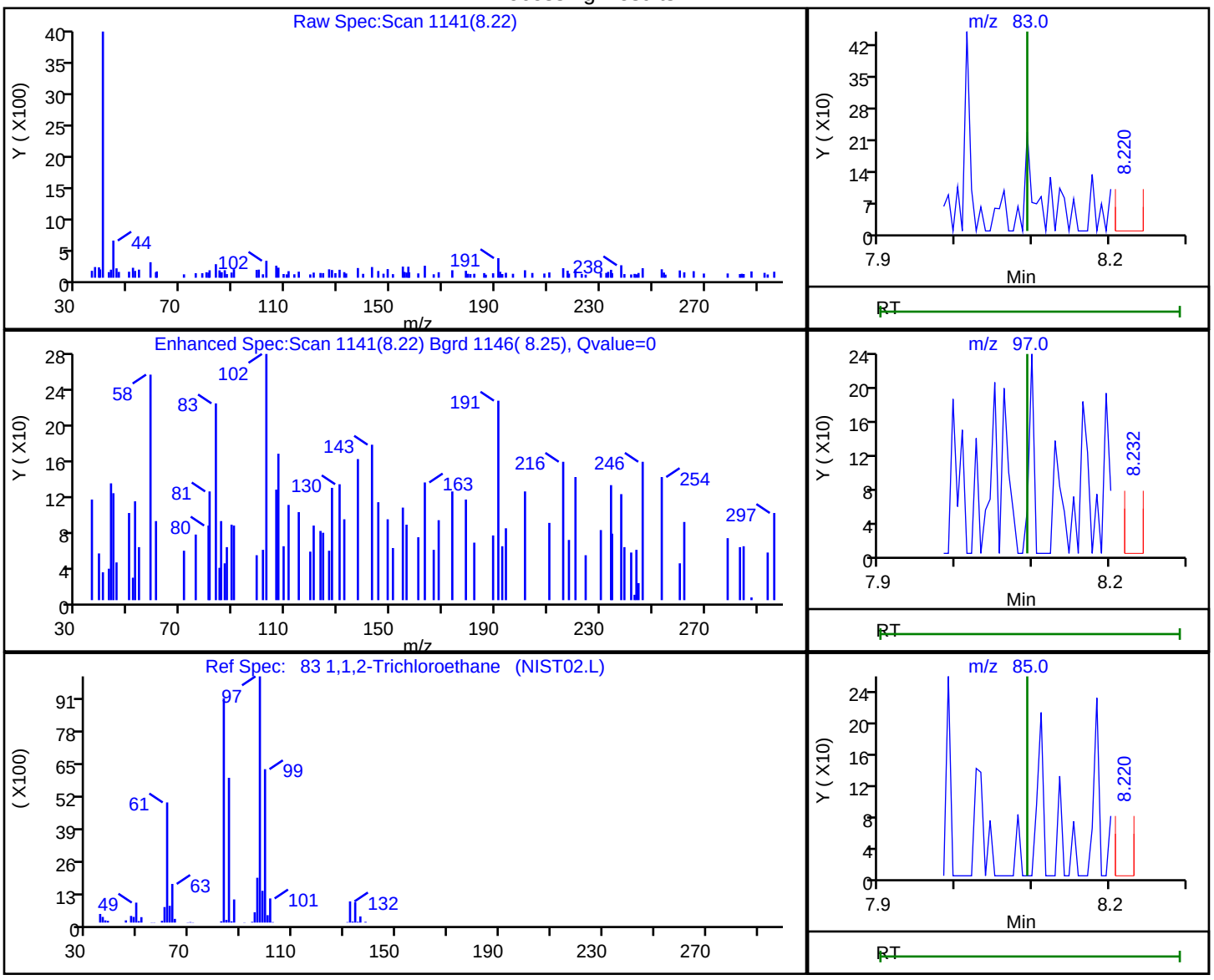
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D				
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2		
Client ID:	PDI-FB-06222018				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
8.22	83.00	216	0.117719
8.23	97.00	54	
8.22	85.00	97	

Reviewer: delpolitov, 03-Jul-2018 12:54:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

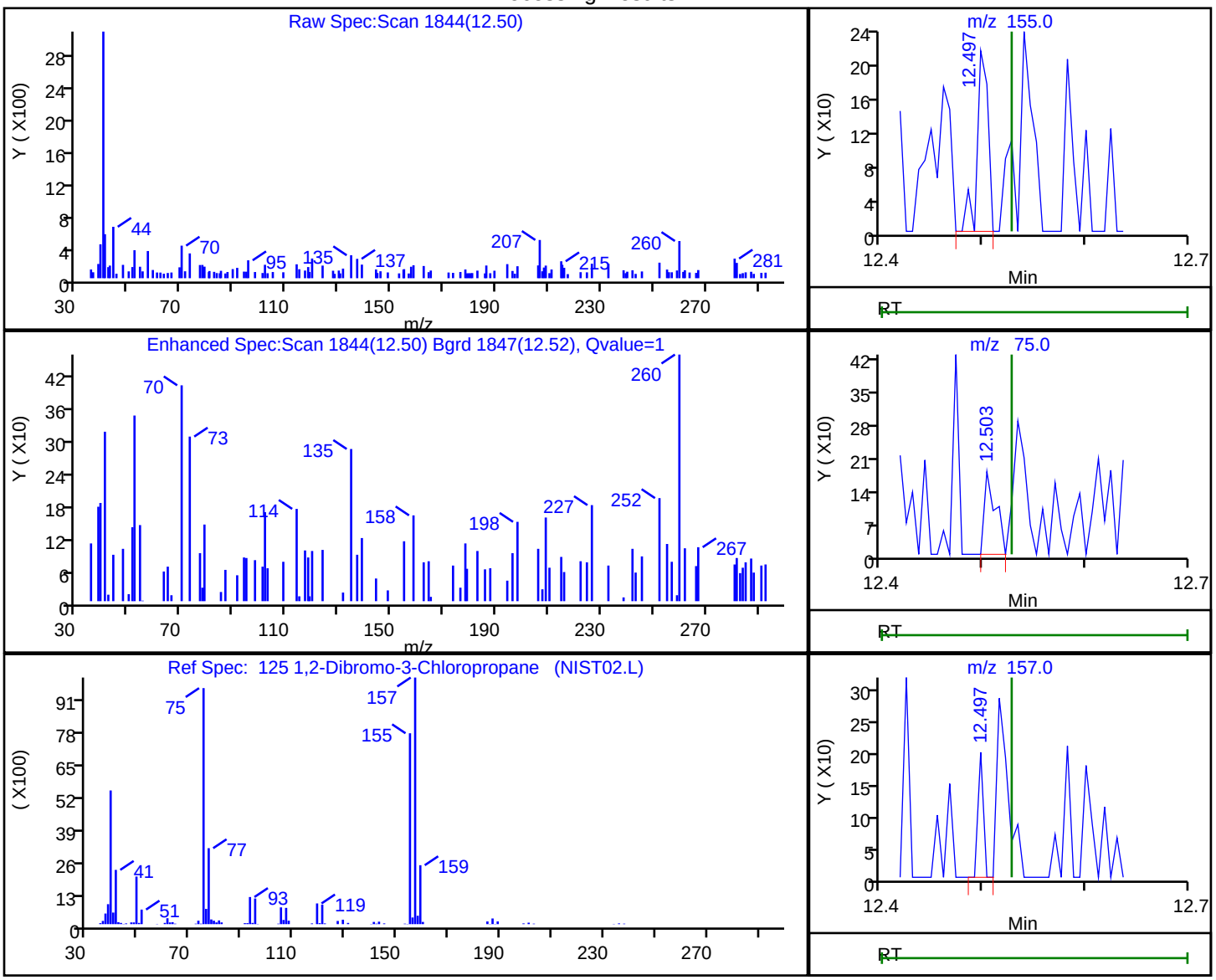
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
12.50	155.00	161	0.374075
12.50	75.00	137	
12.50	157.00	73	

Reviewer: delpolitov, 03-Jul-2018 12:55:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

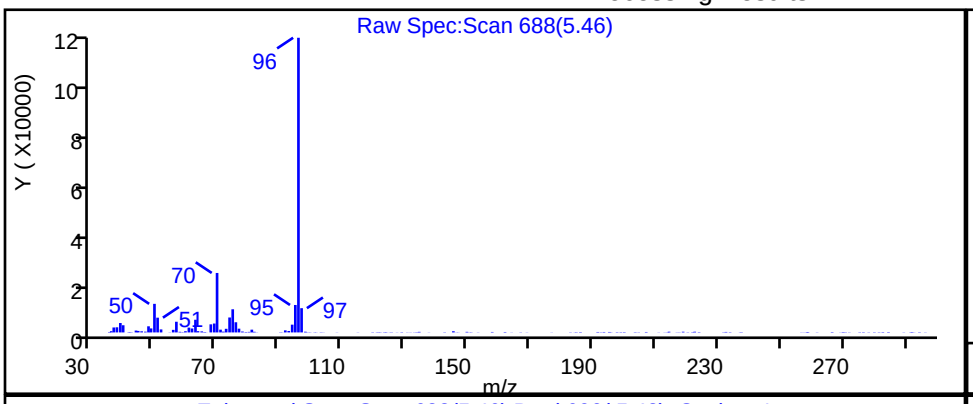
User Disabled Compound Report

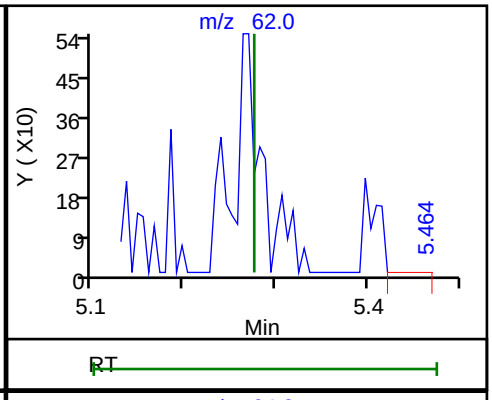
TestAmerica Edison

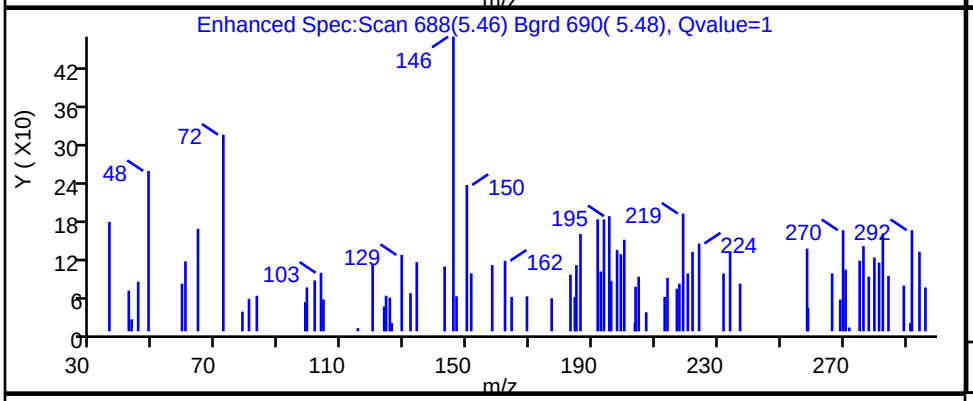
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

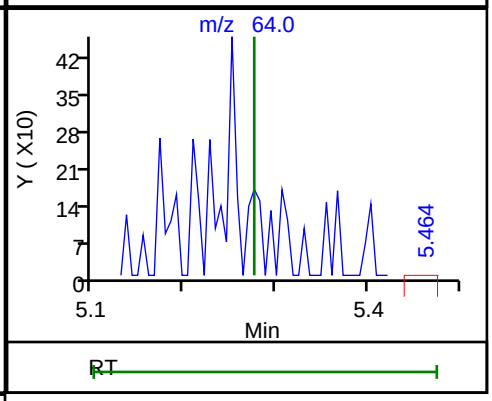
60 1,2-Dichloroethane, CAS: 107-06-2

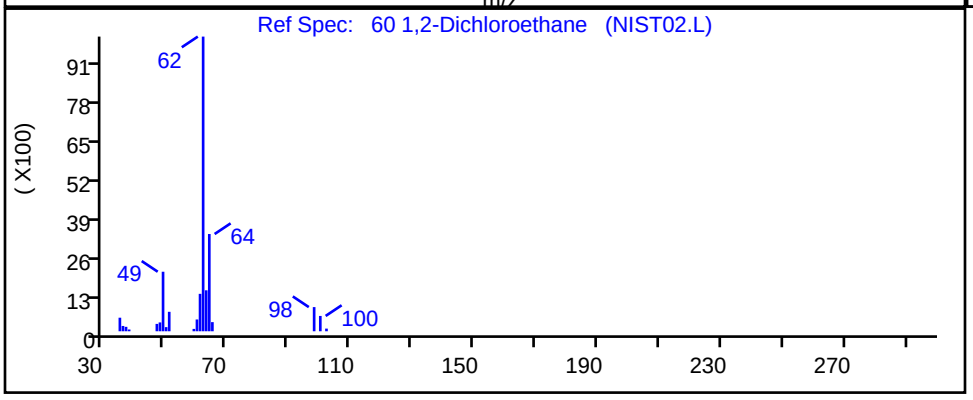
Processing Results











RT	Mass	Response	Amount
5.46	62.00	1971	0.638254
5.46	64.00	613	

Reviewer: delpolitov, 03-Jul-2018 12:54:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

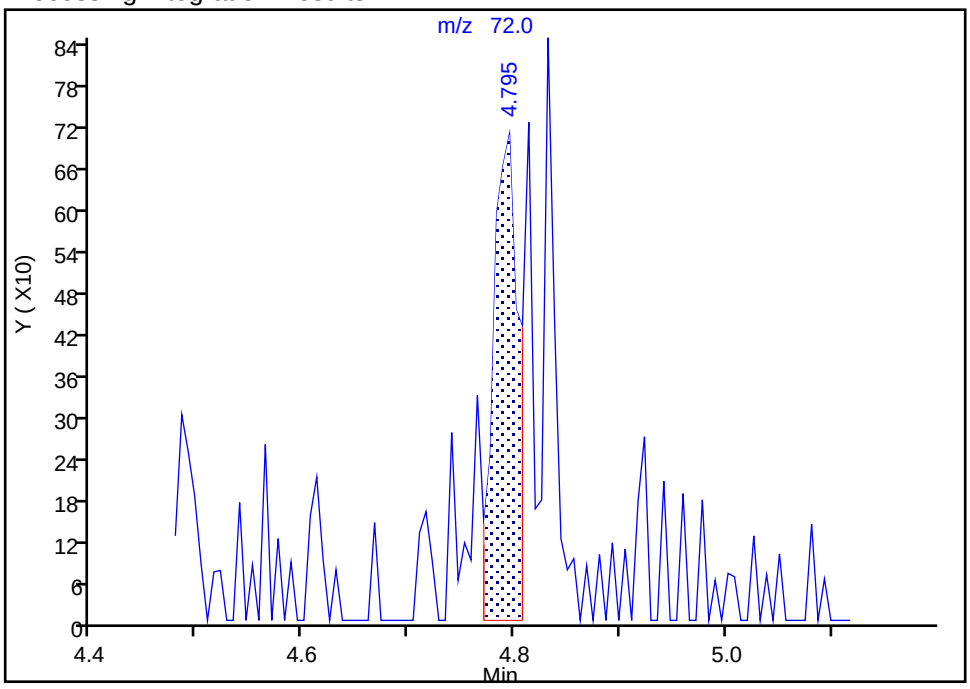
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

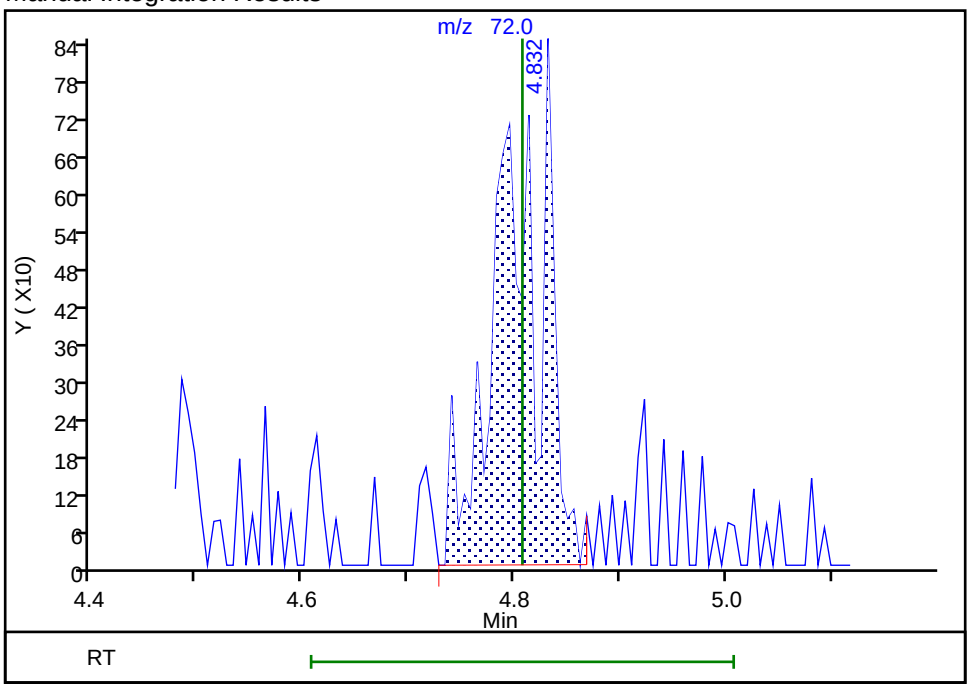
Processing Integration Results

RT: 4.80
Area: 1167
Amount: 7.501919
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 2456
Amount: 15.788100
Amount Units: ug/l



Reviewer: baronm, 08-Jul-2018 20:15:04

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

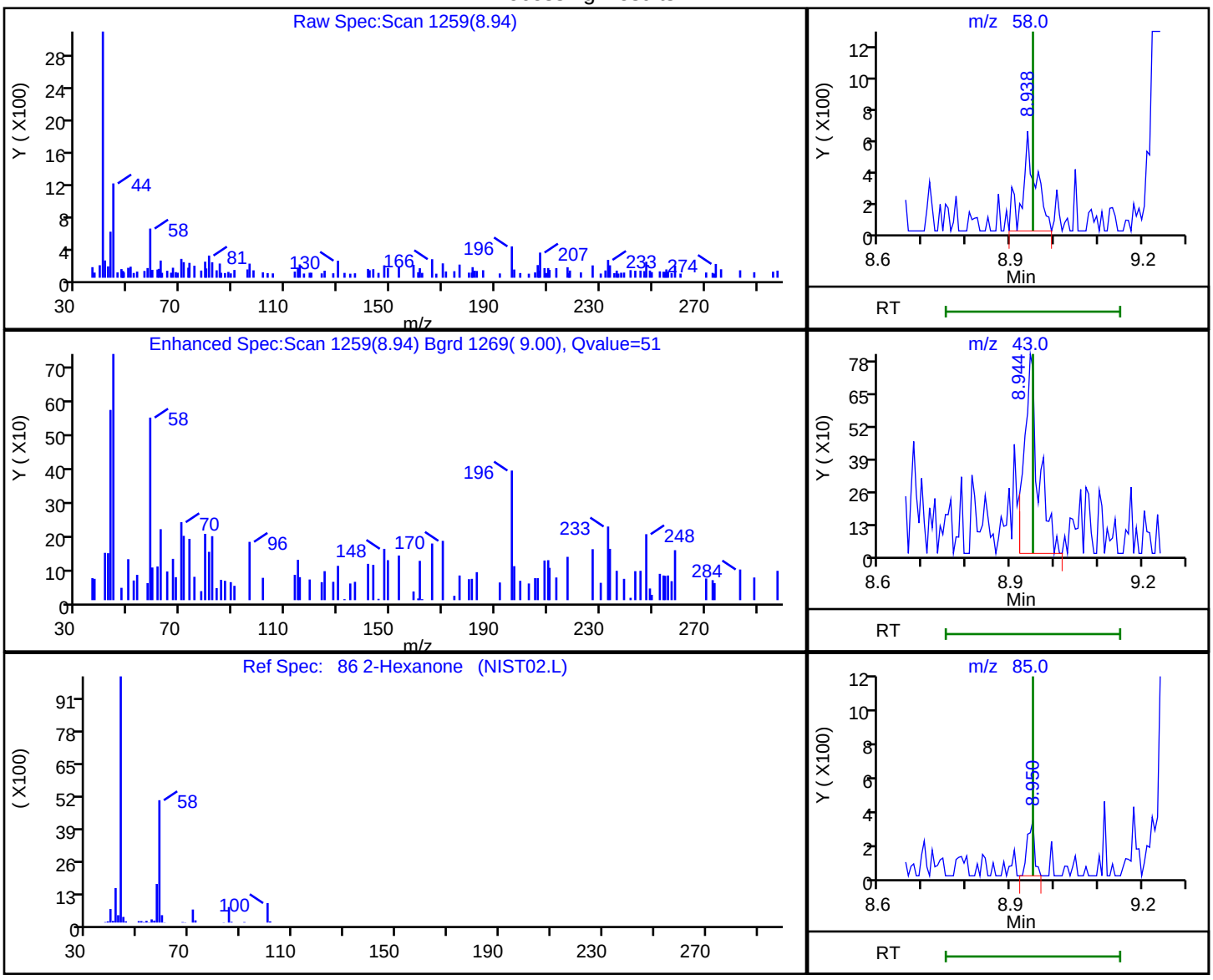
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D				
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2		
Client ID:	PDI-FB-06222018				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

86 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.94	58.00	1333	3.151402
8.94	43.00	1789	
8.95	85.00	356	
8.94	100.00	448	

Reviewer: delpolitov, 03-Jul-2018 12:54:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

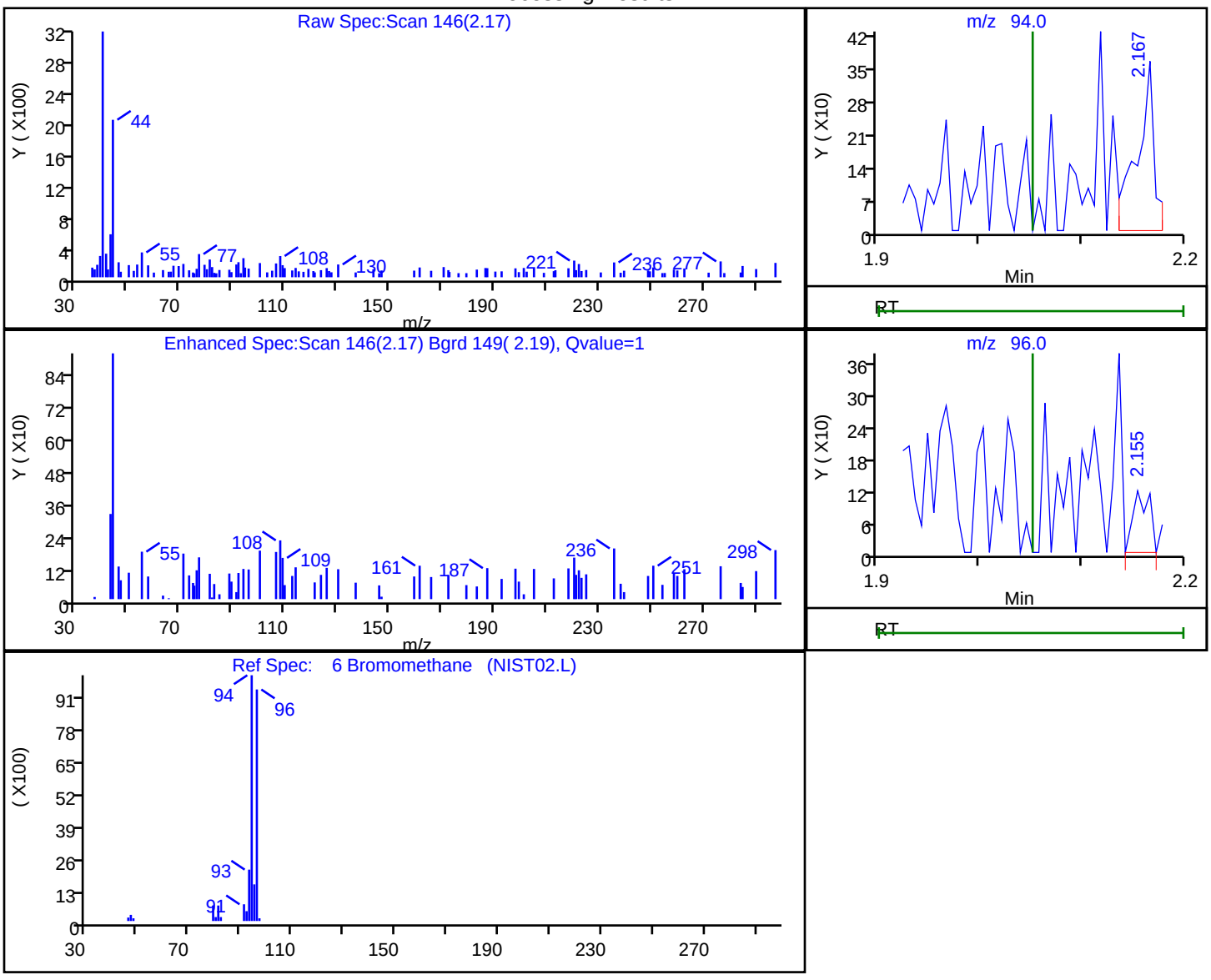
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.17	94.00	427	0.200718
2.15	96.00	130	

Reviewer: delpolitov, 03-Jul-2018 12:54:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

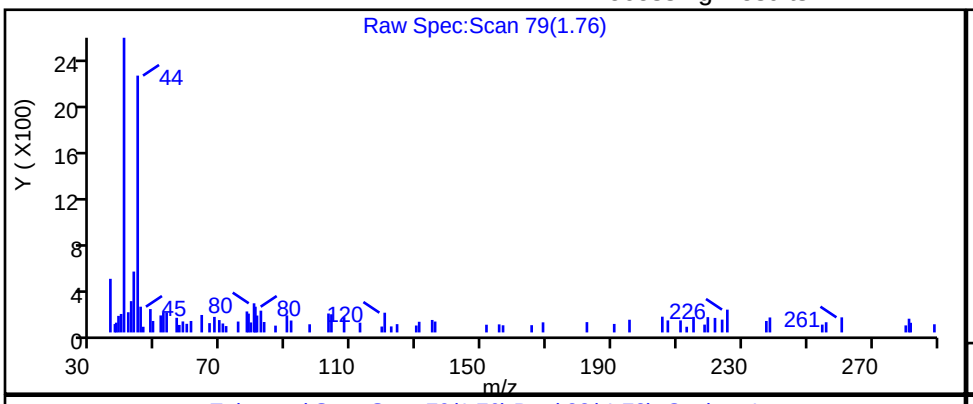
User Disabled Compound Report

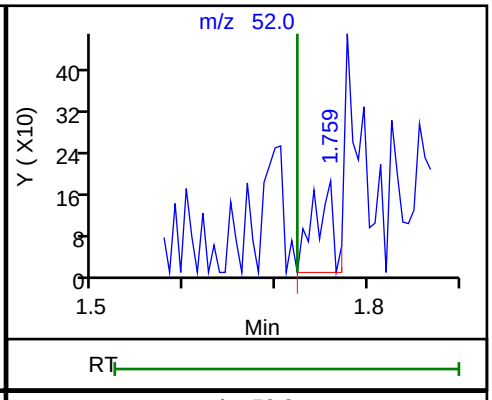
TestAmerica Edison

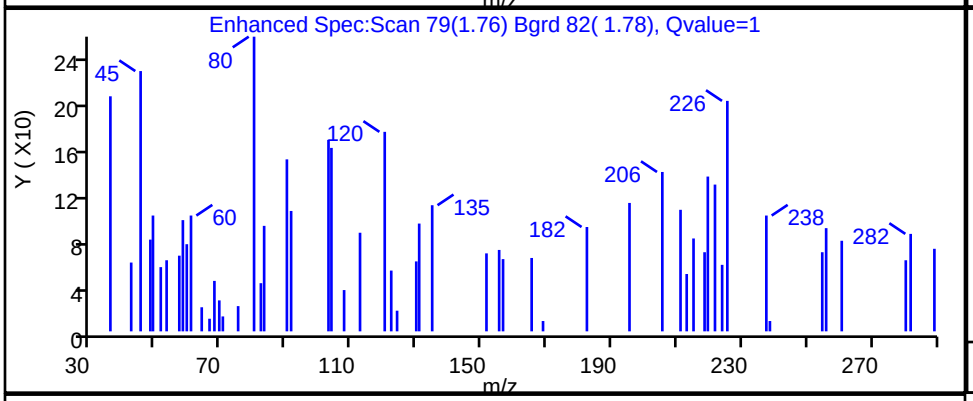
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

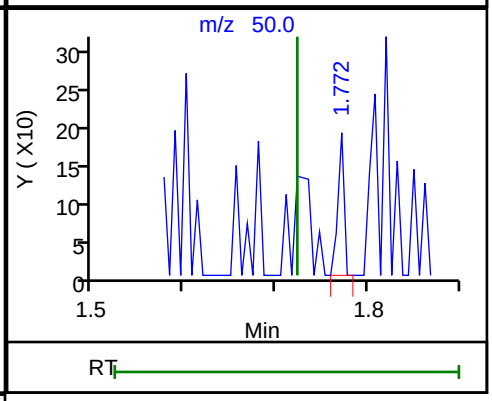
3 Chloromethane, CAS: 74-87-3

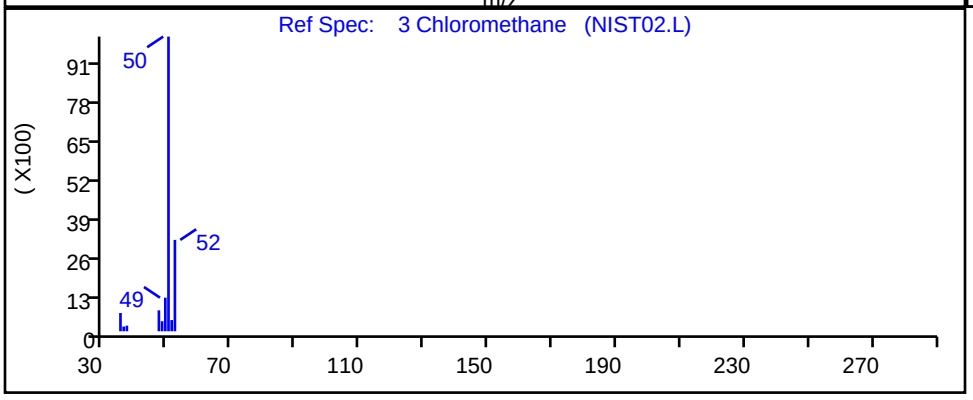
Processing Results











RT	Mass	Response	Amount
1.76	52.00	267	0.380843
1.77	50.00	88	

Reviewer: delpolitov, 03-Jul-2018 12:54:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

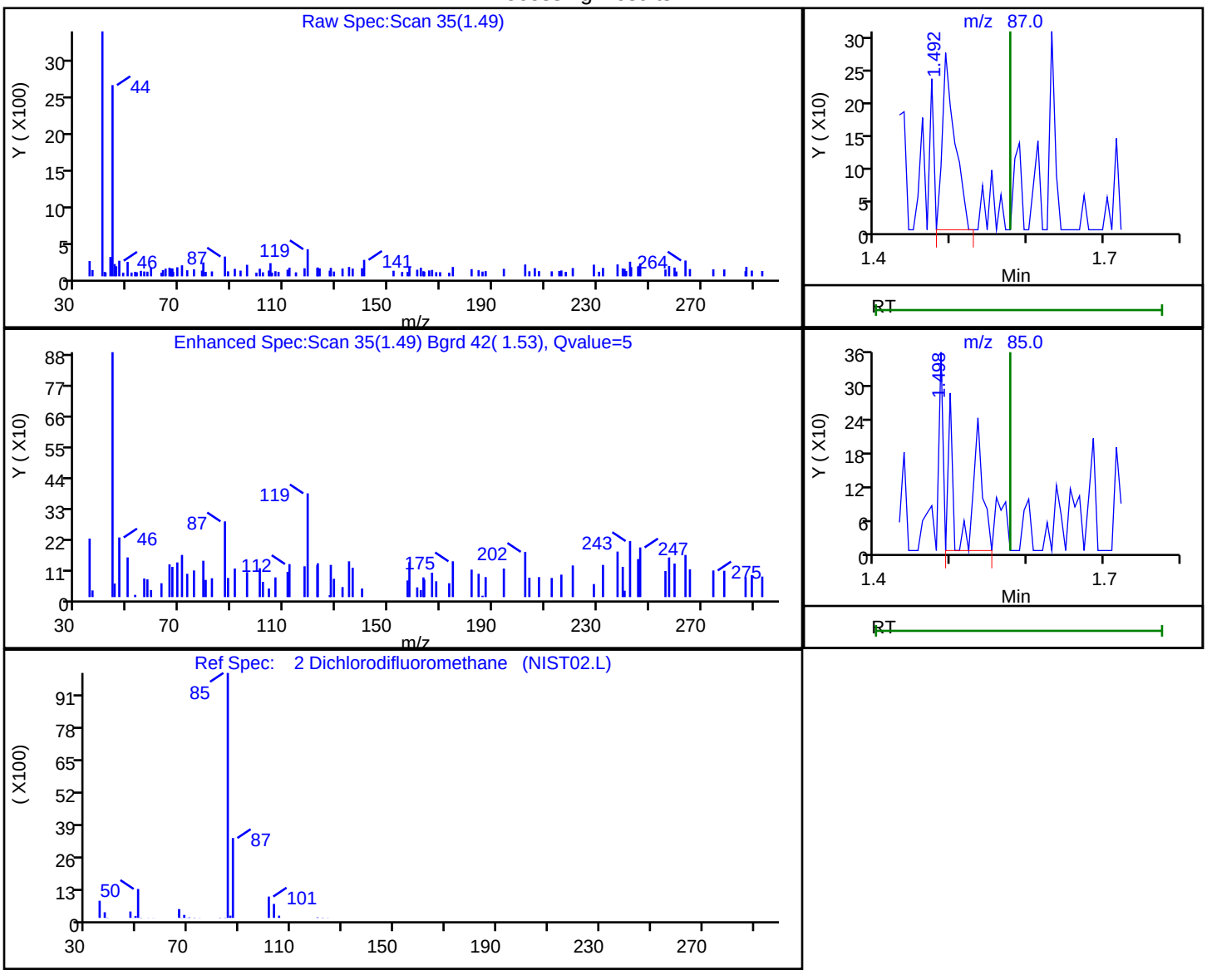
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D				
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11		
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2		
Client ID:	PDI-FB-06222018				
Operator ID:		ALS Bottle#:	11	Worklist Smp#:	12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.49	87.00	310	0.213628
1.50	85.00	315	

Reviewer: delpolitov, 03-Jul-2018 12:54:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

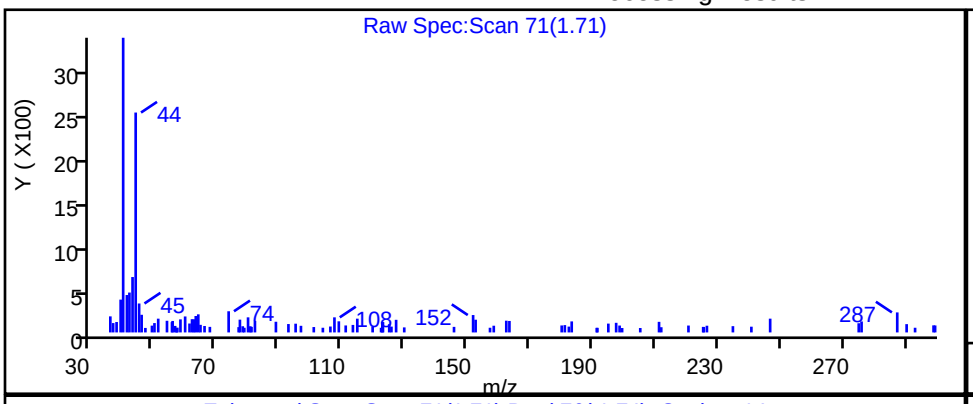
User Disabled Compound Report

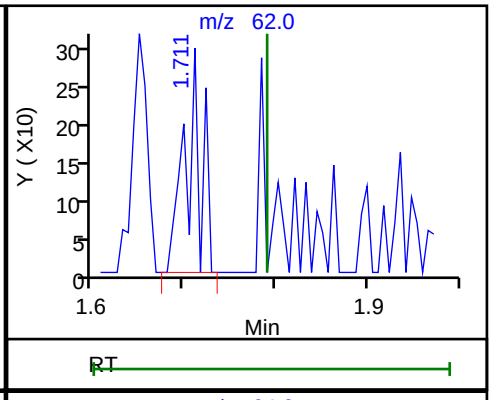
TestAmerica Edison

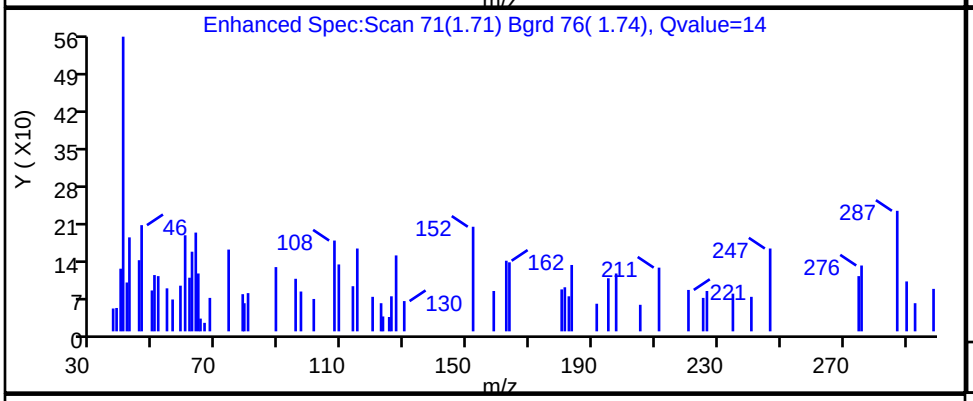
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68536.D		
Injection Date:	03-Jul-2018 11:46:30	Instrument ID:	CVOAMS11
Lims ID:	460-158997-B-2	Lab Sample ID:	460-158997-2
Client ID:	PDI-FB-06222018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

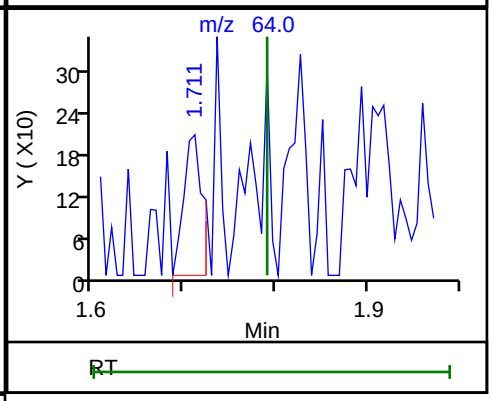
4 Vinyl chloride, CAS: 75-01-4

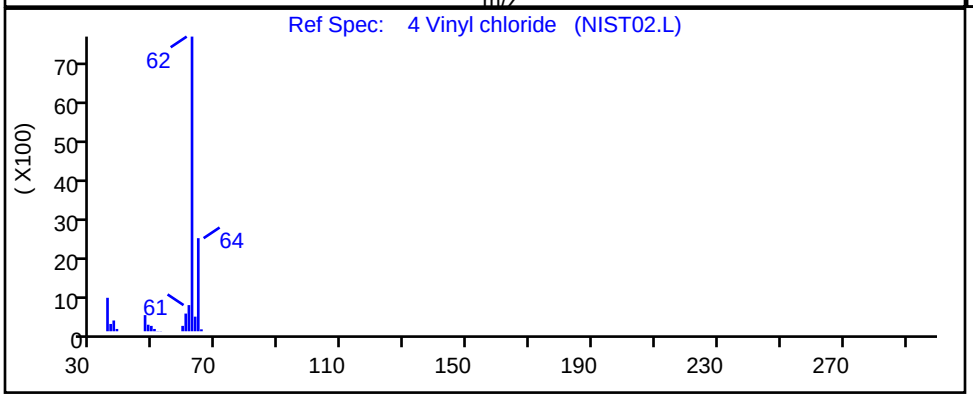
Processing Results











RT	Mass	Response	Amount
1.71	62.00	357	0.100948
1.71	64.00	291	

Reviewer: delpolitov, 03-Jul-2018 12:54:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14-WG-75-06222018 | Lab Sample ID: 460-158997-3

Matrix: Water | Lab File ID: F67263.D

Analysis Method: 8260C | Date Collected: 06/22/2018 11:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 17:54

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533394 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	15		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	0.83	J	1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	0.52	J	1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	0.42	J	1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	0.24	J	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14-WG-75-06222018 Lab Sample ID: 460-158997-3

Matrix: Water Lab File ID: F67263.D

Analysis Method: 8260C Date Collected: 06/22/2018 11:15

Sample wt/vol: 5(mL) Date Analyzed: 07/04/2018 17:54

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 533394 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.31	J	1.0	0.25
108-88-3	Toluene	0.51	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	3.6		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	1.8	J	2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	106		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D
Lims ID: 460-158997-B-3
Client ID: PDI-14-WG-75-06222018
Sample Type: Client
Inject. Date: 04-Jul-2018 17:54:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-3
Misc. Info.: 460-0074850-028
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jul-2018 06:27:14 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 05-Jul-2018 06:25:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
3 Chloromethane	50	1.747	1.747	-0.001	39	1150	0.2351	
18 Acetone	43	2.856	2.848	0.008	89	12074	14.9	
21 Carbon disulfide	76	2.954	2.946	0.008	97	5407	0.5205	
* 26 TBA-d9 (IS)	65	3.209	3.193	0.016	0	79201	1000.0	
* 38 2-Butanone-d5	46	4.244	4.236	0.008	0	65825	250.0	
48 Chloroform	83	4.557	4.549	0.008	83	1425	0.2896	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	51952	53.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	53786	46.0	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	195388	50.0	
63 Trichloroethene	95	5.674	5.674	0.000	94	10255	3.55	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	6475	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	184571	46.9	
79 Toluene	91	7.063	7.055	0.008	92	5996	0.5076	
83 Tetrachloroethene	166	7.671	7.663	0.008	87	875	0.3130	
87 Chlorodibromomethane	129	8.074	8.065	0.009	40	1030	0.4211	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	135547	50.0	
95 o-Xylene	106	9.503	9.503	0.000	94	9202	1.77	
98 Bromoform	173	9.750	9.742	0.008	86	1237	0.8306	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	97	59266	53.0	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	83041	50.0	
122 1,2-Dichlorobenzene	146	11.180	11.171	0.009	90	1608	0.2423	
S 131 Xylenes, Total	100				0		1.77	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

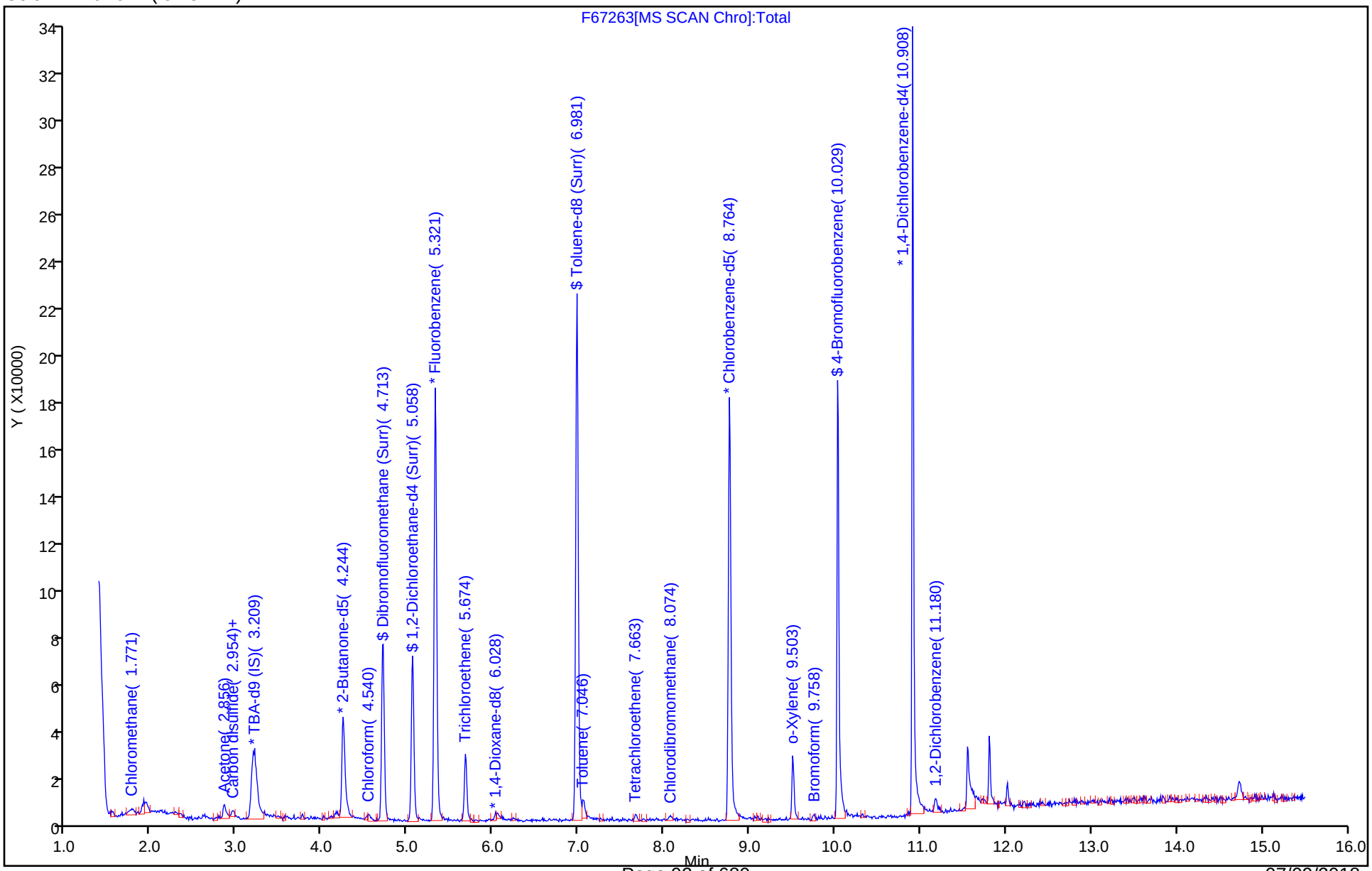
Report Date: 05-Jul-2018 06:27:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D

Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3	Worklist Smp#:	28
Client ID:	PDI-14-WG-75-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

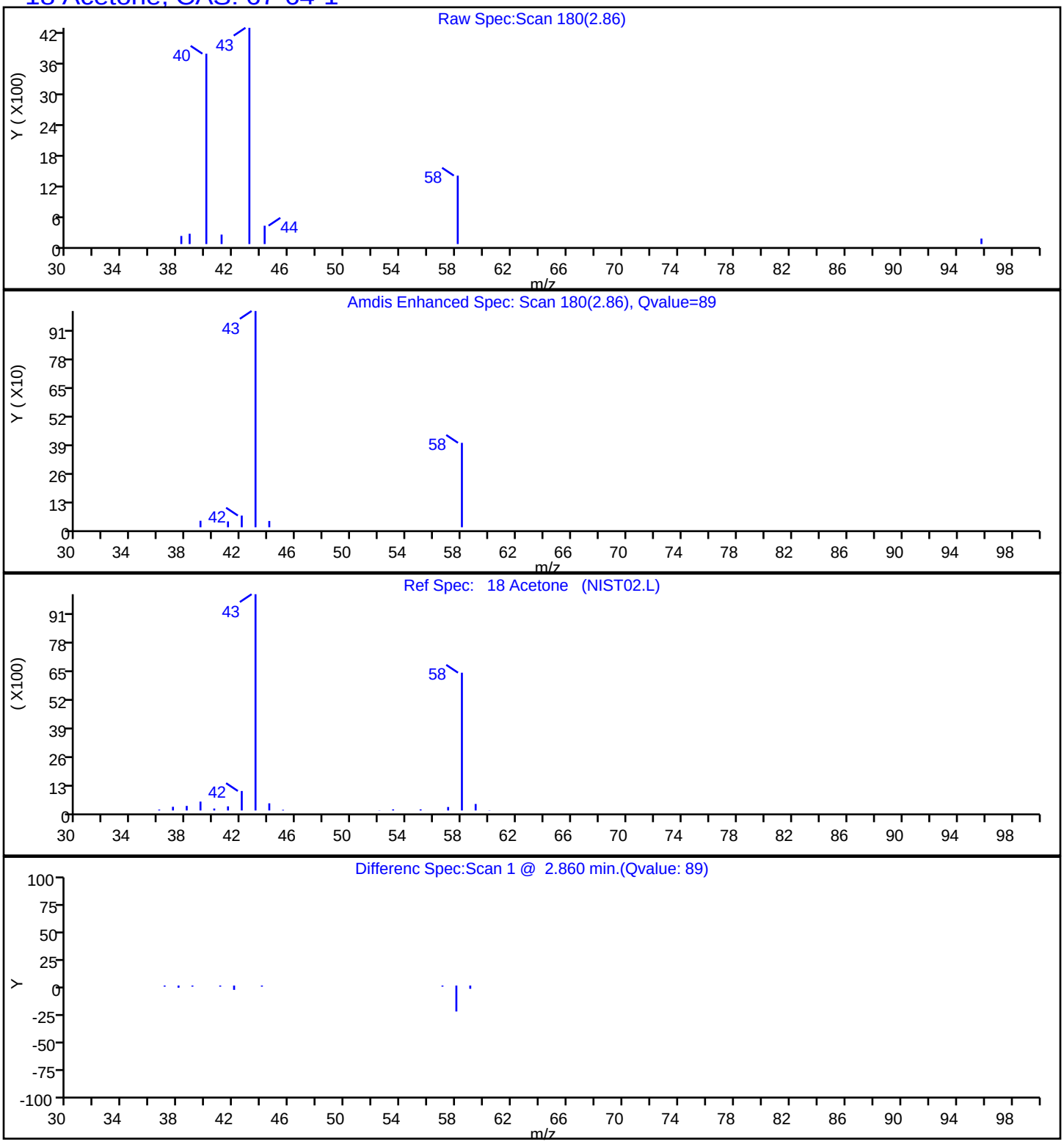
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

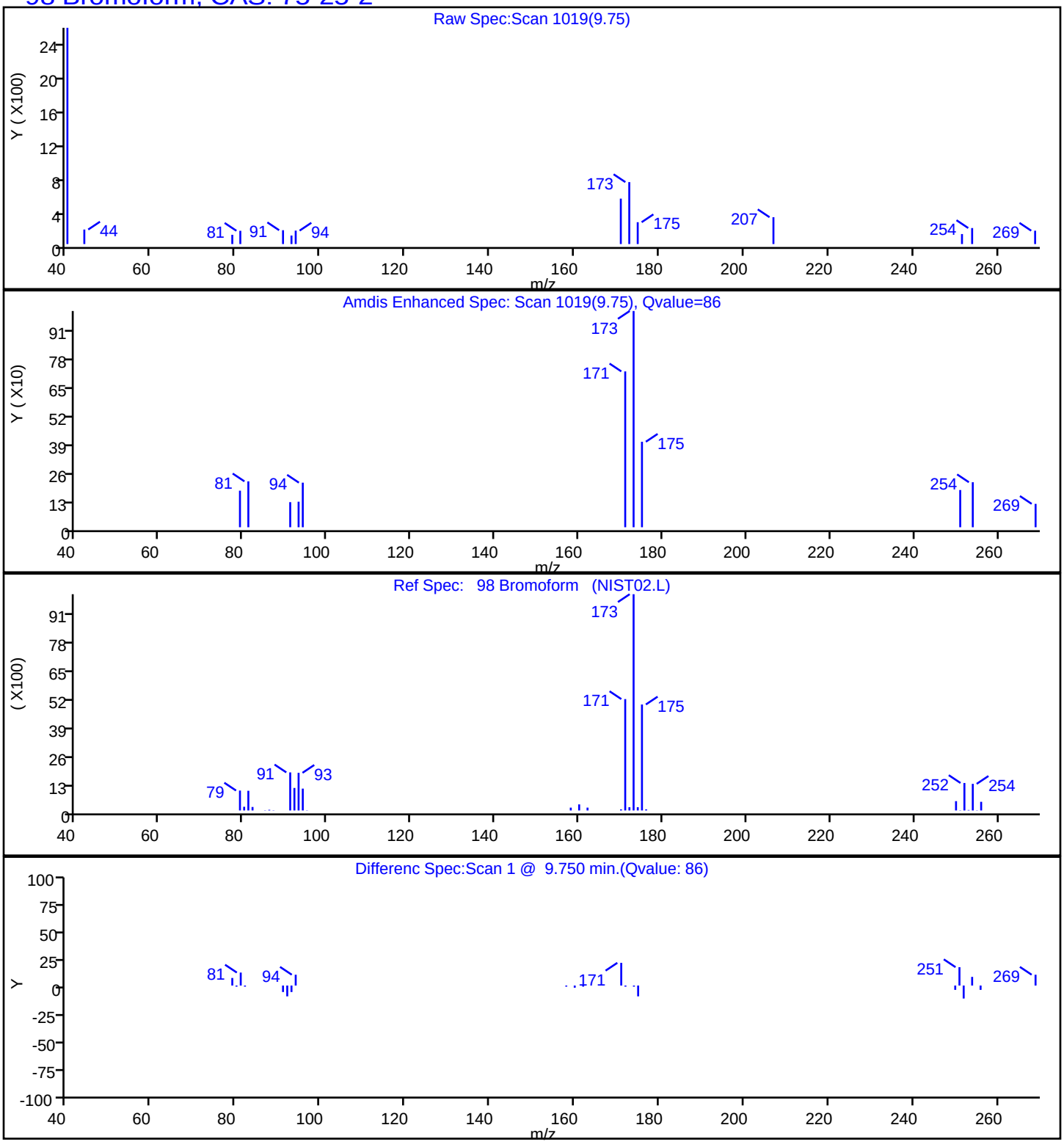
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

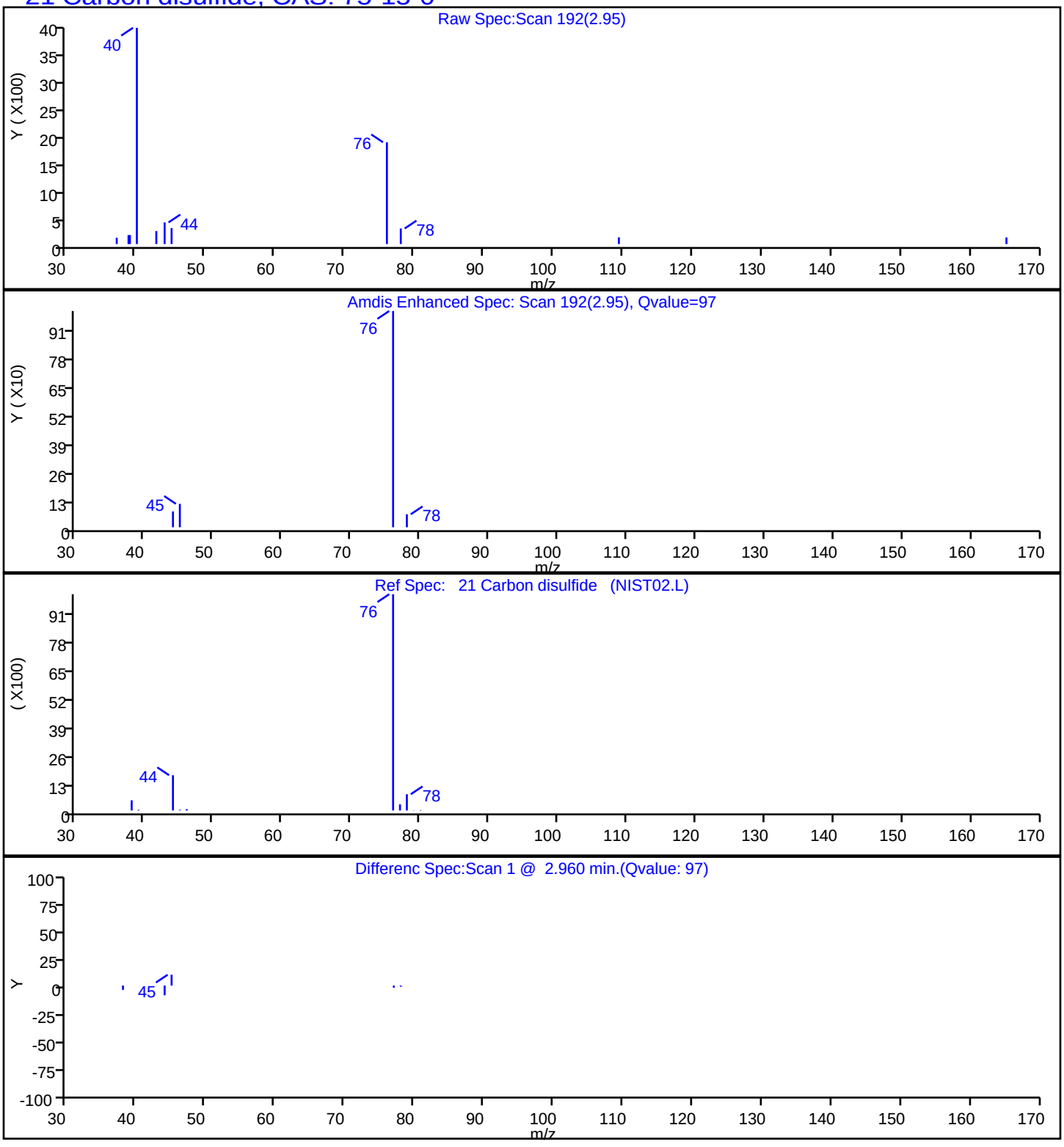
98 Bromoform, CAS: 75-25-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

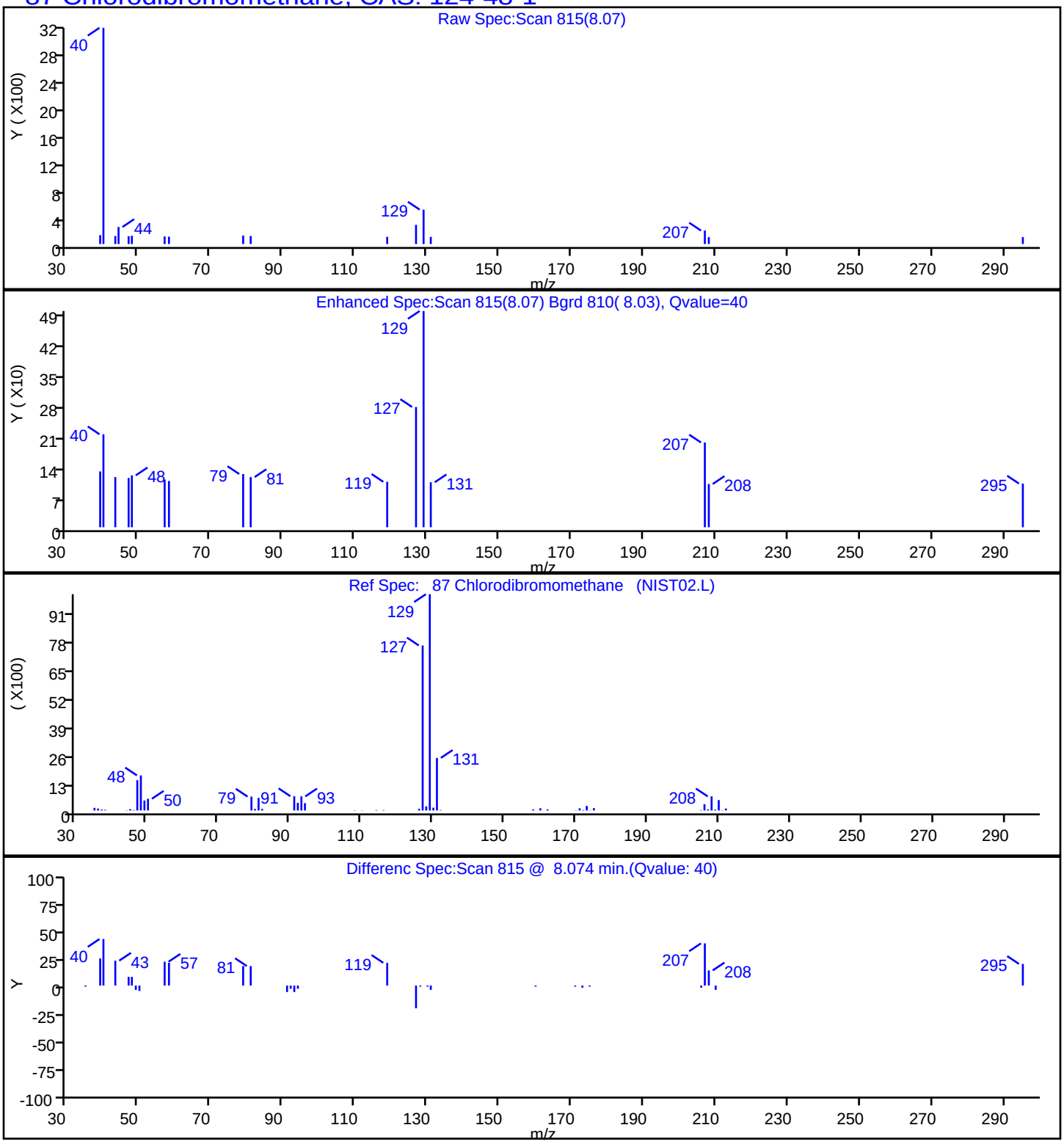
21 Carbon disulfide, CAS: 75-15-0



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D				
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6		
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3		
Client ID:	PDI-14-WG-75-06222018				
Operator ID:		ALS Bottle#:	27	Worklist Smp#:	28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

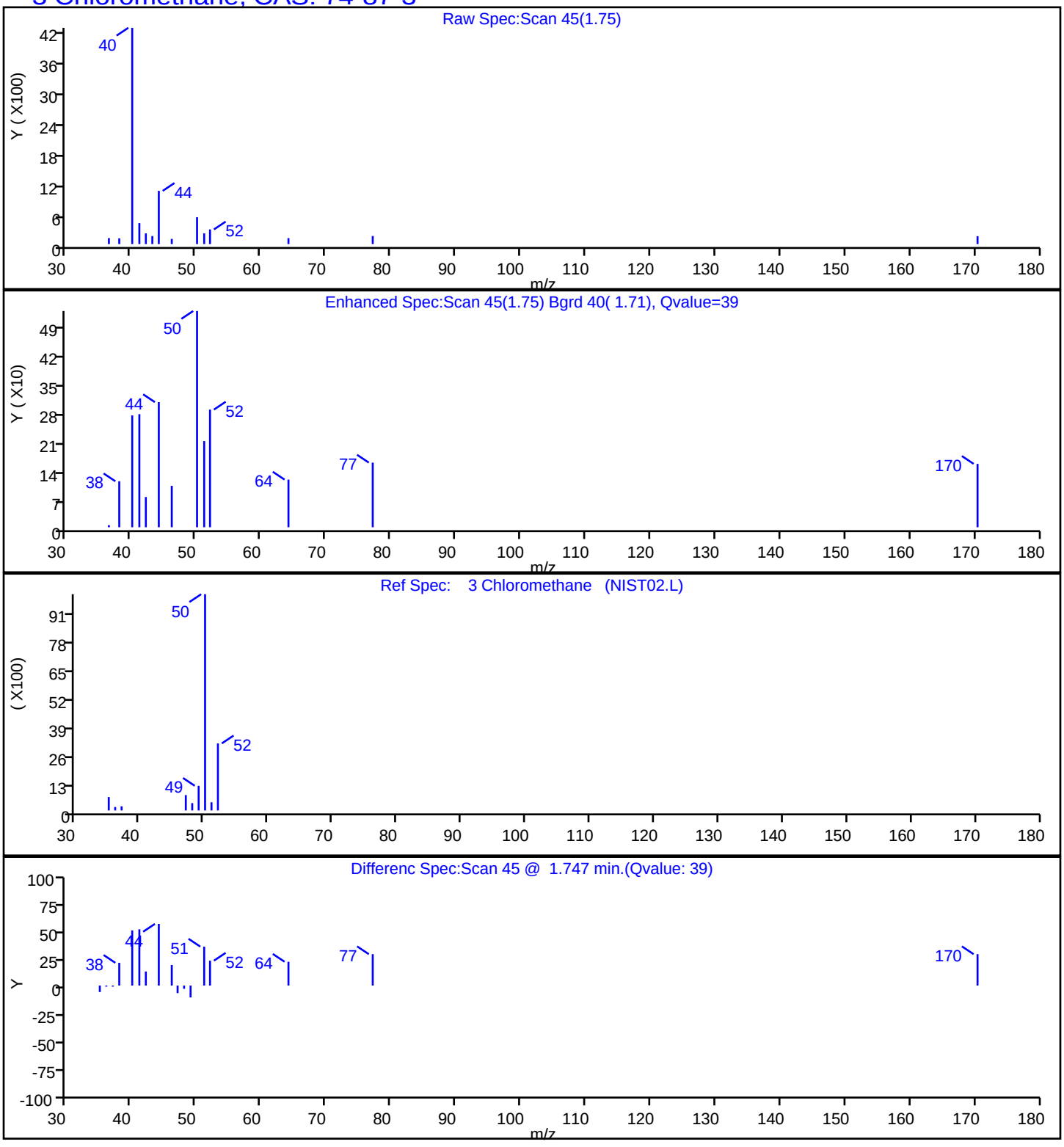
87 Chlorodibromomethane, CAS: 124-48-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

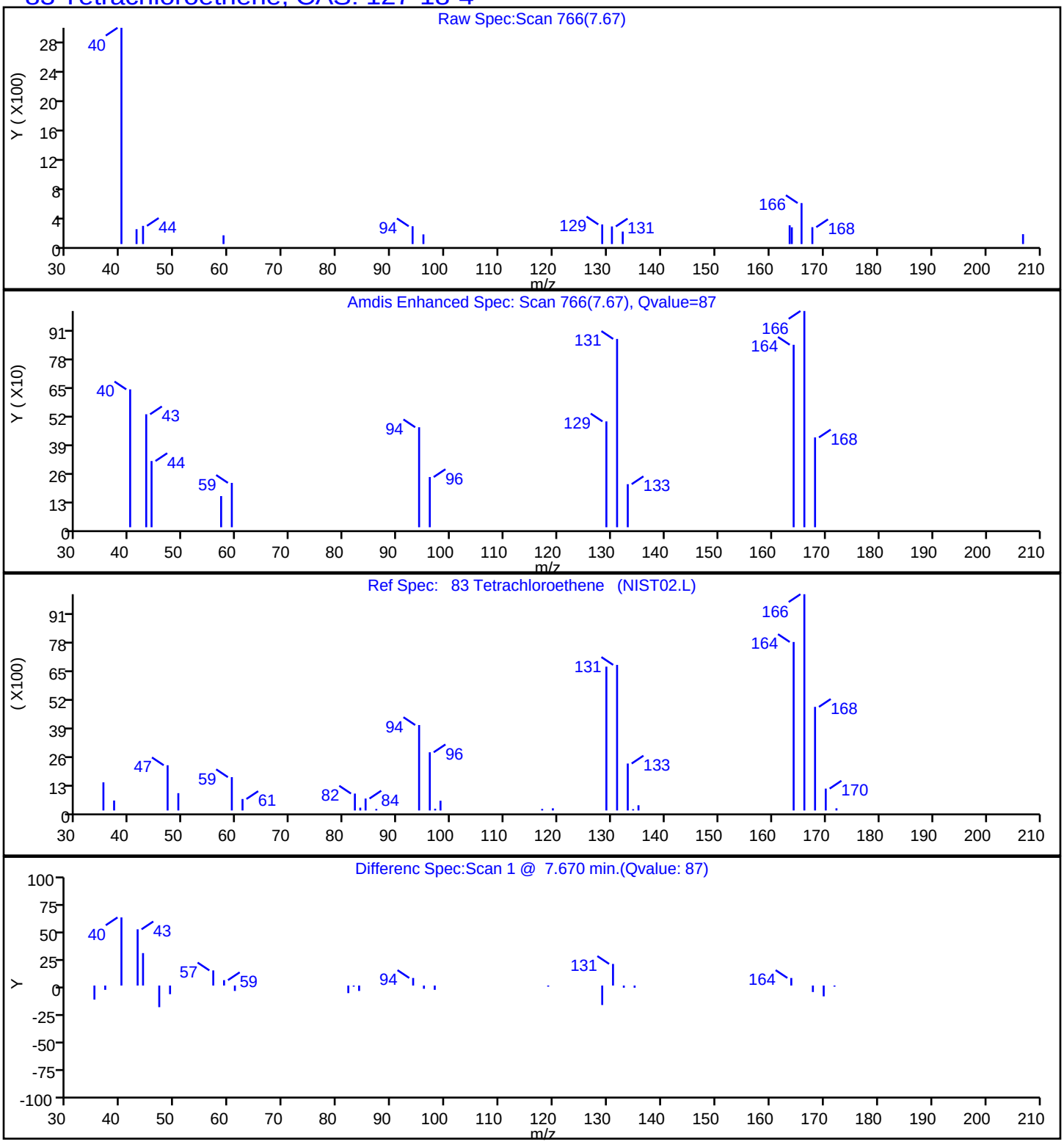
3 Chloromethane, CAS: 74-87-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

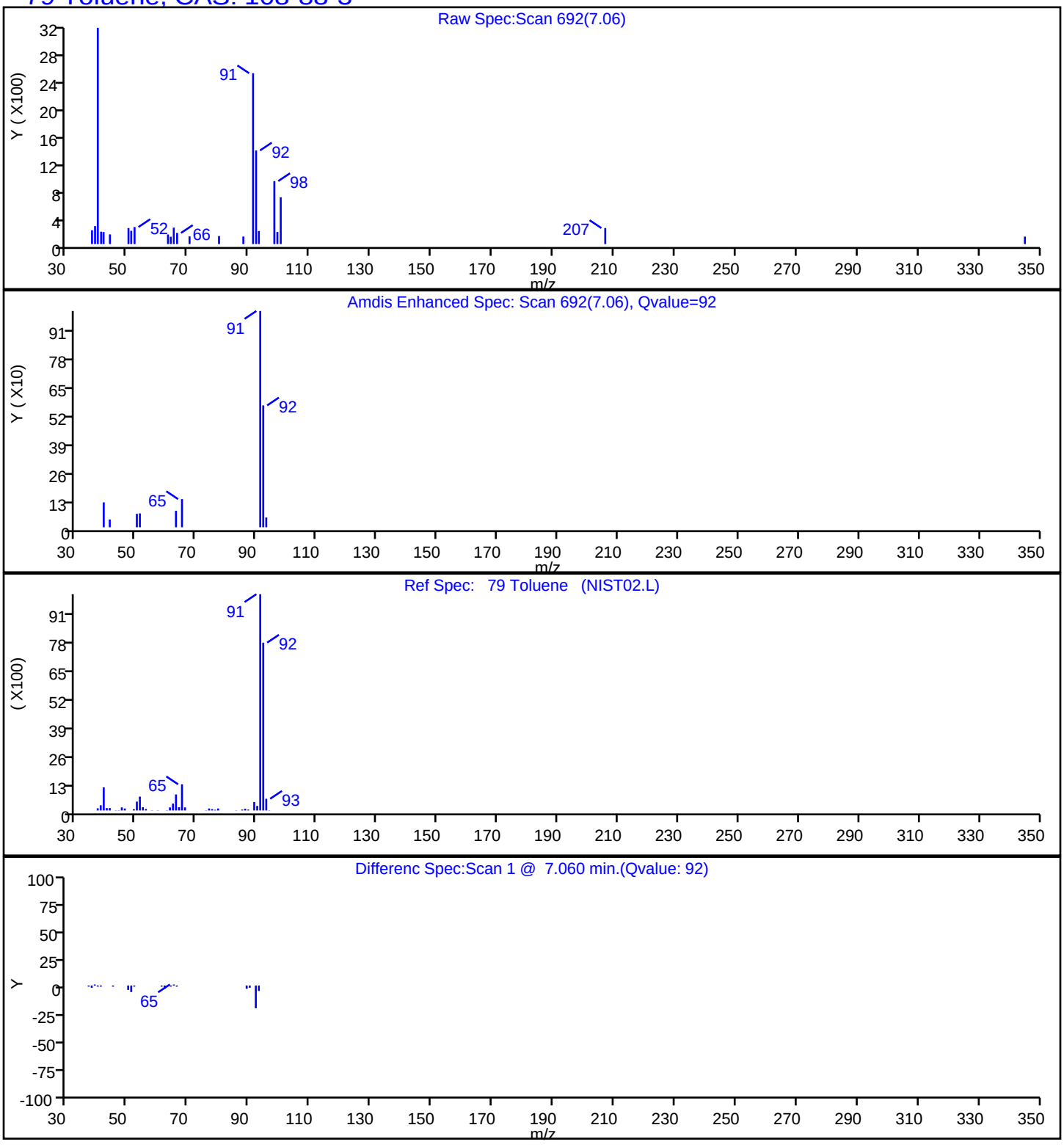
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

79 Toluene, CAS: 108-88-3



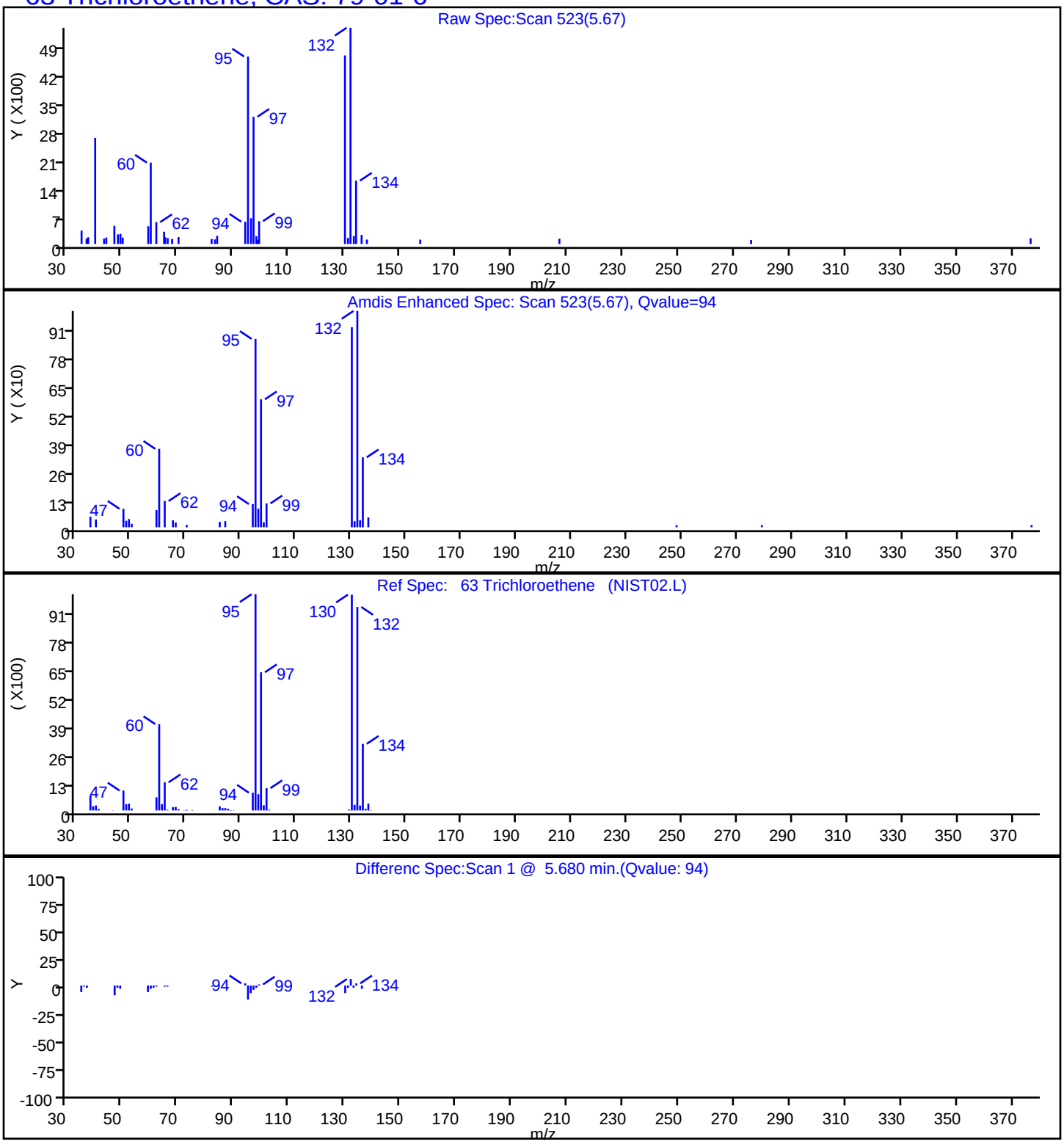
Report Date: 05-Jul-2018 06:27:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D

Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

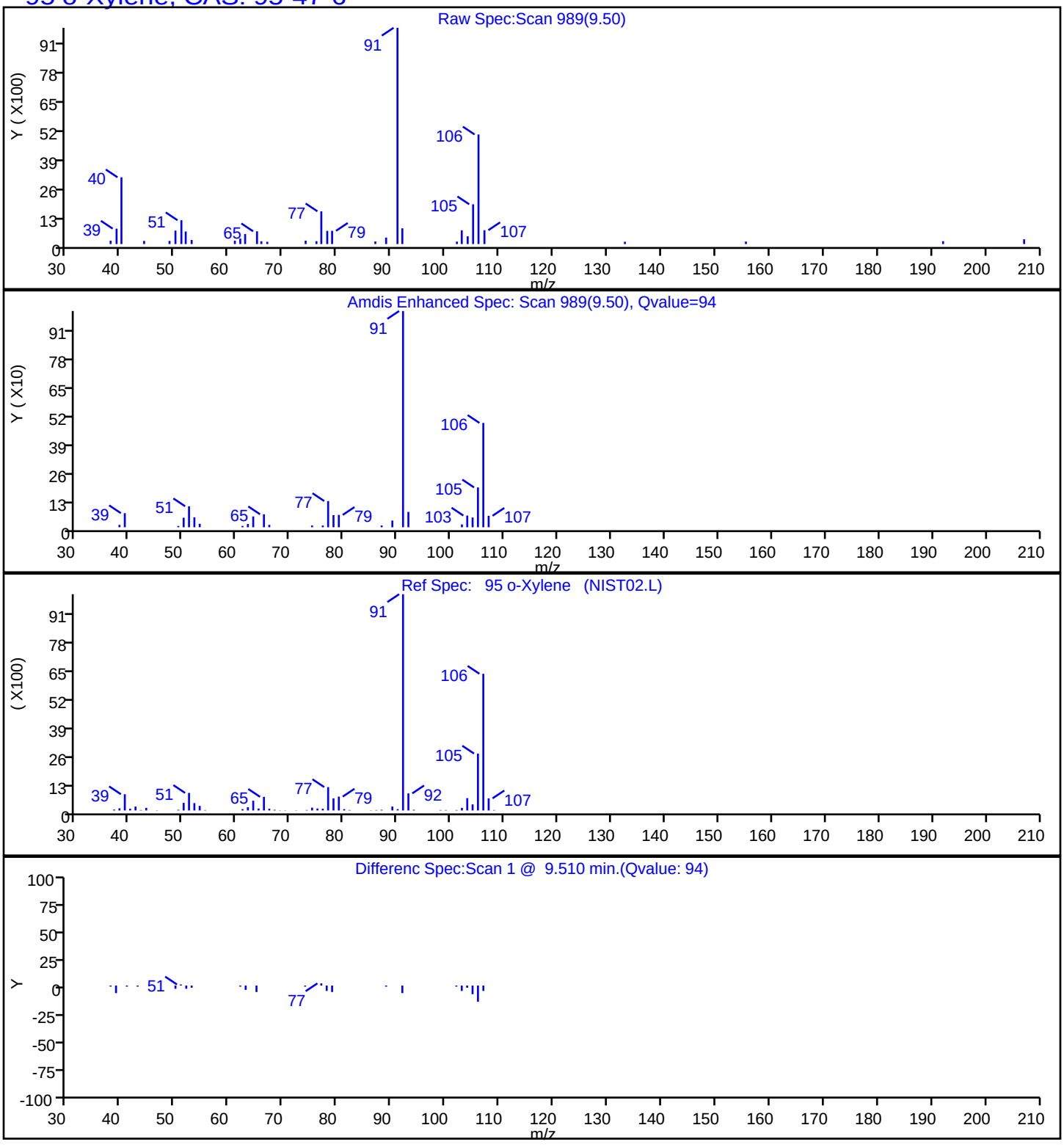
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

95 o-Xylene, CAS: 95-47-6



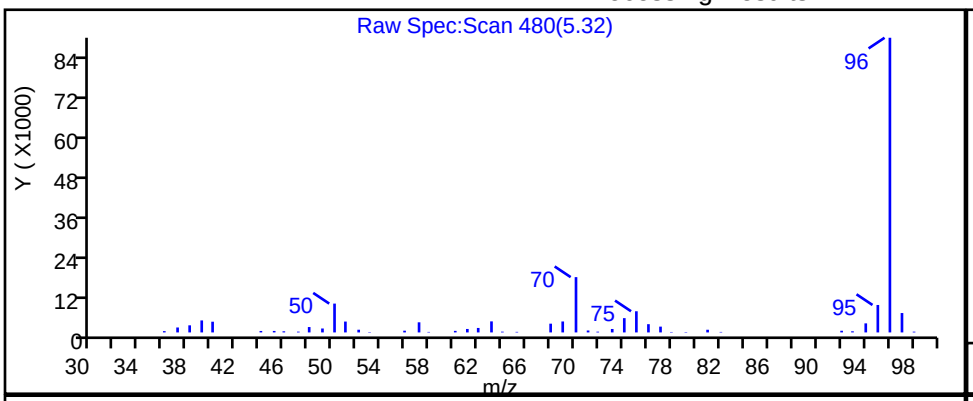
User Disabled Compound Report

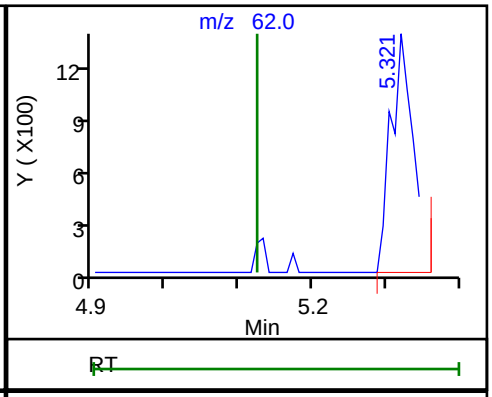
TestAmerica Edison

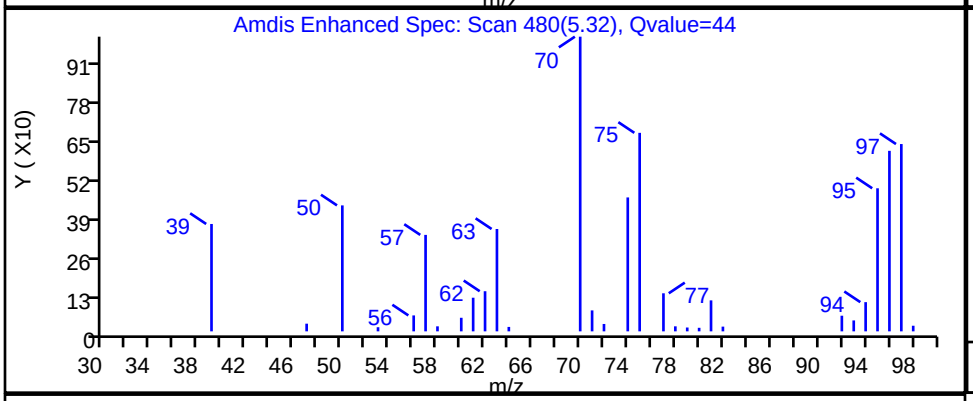
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67263.D		
Injection Date:	04-Jul-2018 17:54:30	Instrument ID:	CVOAMS6
Lims ID:	460-158997-B-3	Lab Sample ID:	460-158997-3
Client ID:	PDI-14-WG-75-06222018		
Operator ID:		ALS Bottle#:	27 Worklist Smp#: 28
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

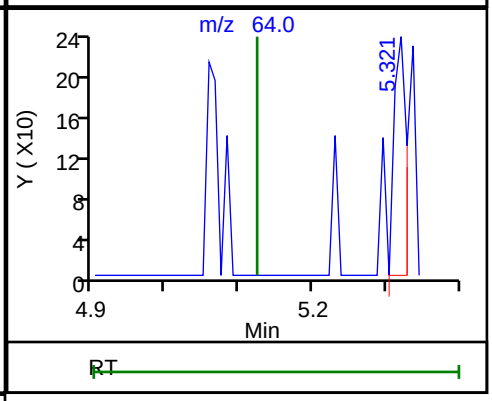
59 1,2-Dichloroethane, CAS: 107-06-2

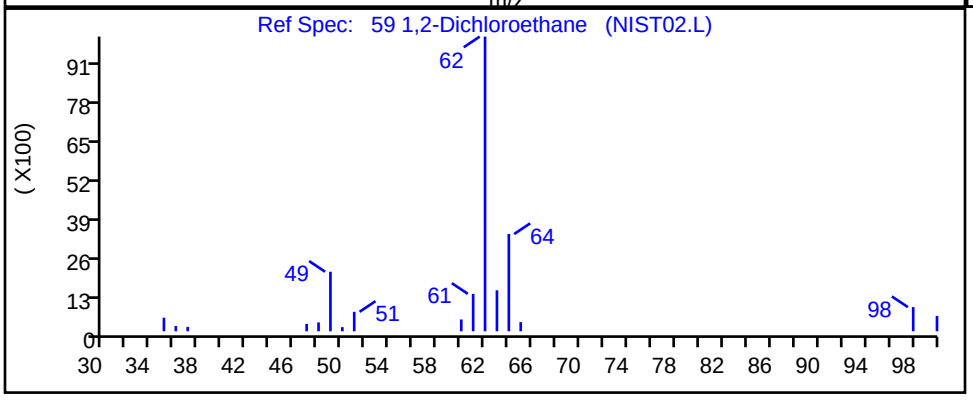
Processing Results











RT	Mass	Response	Amount
5.32	62.00	2810	0.763293
5.32	64.00	269	

Reviewer: moroneyc, 05-Jul-2018 06:25:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14-SO-55-06222018 | Lab Sample ID: 460-158997-4

Matrix: Solid | Lab File ID: K86051.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 6.973(g) | Date Analyzed: 07/04/2018 07:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND	F1	0.86	0.20
79-34-5	1,1,2,2-Tetrachloroethane	ND	F1	0.86	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	0.86	0.26
79-00-5	1,1,2-Trichloroethane	ND	F1	0.86	0.15
75-34-3	1,1-Dichloroethane	ND	F1	0.86	0.18
75-35-4	1,1-Dichloroethene	ND	F1	0.86	0.19
120-82-1	1,2,4-Trichlorobenzene	ND	F1	0.86	0.079
96-12-8	1,2-Dibromo-3-Chloropropane	ND	F1	0.86	0.40
95-50-1	1,2-Dichlorobenzene	ND	F1	0.86	0.12
107-06-2	1,2-Dichloroethane	ND		0.86	0.26
78-87-5	1,2-Dichloropropane	ND	F1	0.86	0.37
541-73-1	1,3-Dichlorobenzene	ND	F1	0.86	0.14
106-46-7	1,4-Dichlorobenzene	ND	F1	0.86	0.086
78-93-3	2-Butanone (MEK)	3.5	J F1	4.3	0.96
591-78-6	2-Hexanone	ND	F1	4.3	0.67
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	F1	4.3	0.57
67-64-1	Acetone	17	F1	4.3	3.3
71-43-2	Benzene	ND	F1	0.86	0.22
75-25-2	Bromoform	ND		0.86	0.37
74-83-9	Bromomethane	ND		0.86	0.41
75-15-0	Carbon disulfide	ND	F1	0.86	0.23
56-23-5	Carbon tetrachloride	ND	F1	0.86	0.16
108-90-7	Chlorobenzene	ND	F1	0.86	0.15
124-48-1	Dibromochloromethane	ND	F1	0.86	0.17
75-00-3	Chloroethane	ND		0.86	0.45
67-66-3	Chloroform	ND	F1	0.86	0.28
74-87-3	Chloromethane	ND		0.86	0.38
156-59-2	cis-1,2-Dichloroethene	0.30	J F1	0.86	0.13
110-82-7	Cyclohexane	ND	F1	0.86	0.19
75-27-4	Bromodichloromethane	ND	F1	0.86	0.22
75-71-8	Dichlorodifluoromethane	ND		0.86	0.29
100-41-4	Ethylbenzene	ND	F1	0.86	0.17
106-93-4	1,2-Dibromoethane	ND	F1	0.86	0.16
98-82-8	Isopropylbenzene	ND	F1	0.86	0.11
79-20-9	Methyl acetate	ND	F1	4.3	3.7

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14-SO-55-06222018 | Lab Sample ID: 460-158997-4

Matrix: Solid | Lab File ID: K86051.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 6.973(g) | Date Analyzed: 07/04/2018 07:06

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND	F1	0.86	0.11
108-87-2	Methylcyclohexane	ND	F1	0.86	0.14
75-09-2	Methylene Chloride	0.32	J F1 B	0.86	0.14
127-18-4	Tetrachloroethene	0.53	J F1	0.86	0.12
108-88-3	Toluene	ND	F1	0.86	0.54
156-60-5	trans-1,2-Dichloroethene	ND	F1	0.86	0.21
10061-02-6	trans-1,3-Dichloropropene	ND	F1	0.86	0.23
79-01-6	Trichloroethene	8.5	F1	0.86	0.12
75-69-4	Trichlorofluoromethane	ND		0.86	0.35
75-01-4	Vinyl chloride	ND		0.86	0.47
1330-20-7	Xylenes, Total	ND	F1	1.7	0.22
10061-01-5	cis-1,3-Dichloropropene	ND	F1	0.86	0.24
100-42-5	Styrene	ND	F1	0.86	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	124		78-135
460-00-4	4-Bromofluorobenzene	108		67-126
2037-26-5	Toluene-d8 (Surr)	95		73-121
1868-53-7	Dibromofluoromethane (Surr)	117		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D
Lims ID: 460-158997-B-4-A
Client ID: PDI-14-SO-55-06222018
Sample Type: Client
Inject. Date: 04-Jul-2018 07:06:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-4-A
Misc. Info.: 460-0074846-019
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:32:50 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: starzecm Date: 04-Jul-2018 11:42:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.992	2.998	-0.006	85	32641	19.6	
26 Methylene Chloride	84	3.364	3.370	-0.006	30	1494	0.3705	
* 25 TBA-d9 (IS)	65	3.358	3.370	-0.012	0	636958	1000.0	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	468734	250.0	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	41	1431	0.3432	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	98	2700	4.04	M
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	95	189221	58.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	203816	62.2	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	99	472517	50.0	
63 Trichloroethene	95	5.930	5.930	0.000	97	35729	9.84	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	45209	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	618079	47.4	
83 Tetrachloroethene	166	7.954	7.948	0.006	94	2412	0.6190	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	421159	50.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	1714	0.2426	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	209377	54.1	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	95	259751	50.0	
S 131 Xylenes, Total	100				0		0.2426	
S 132 Total BTEX	1				0		0.2426	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

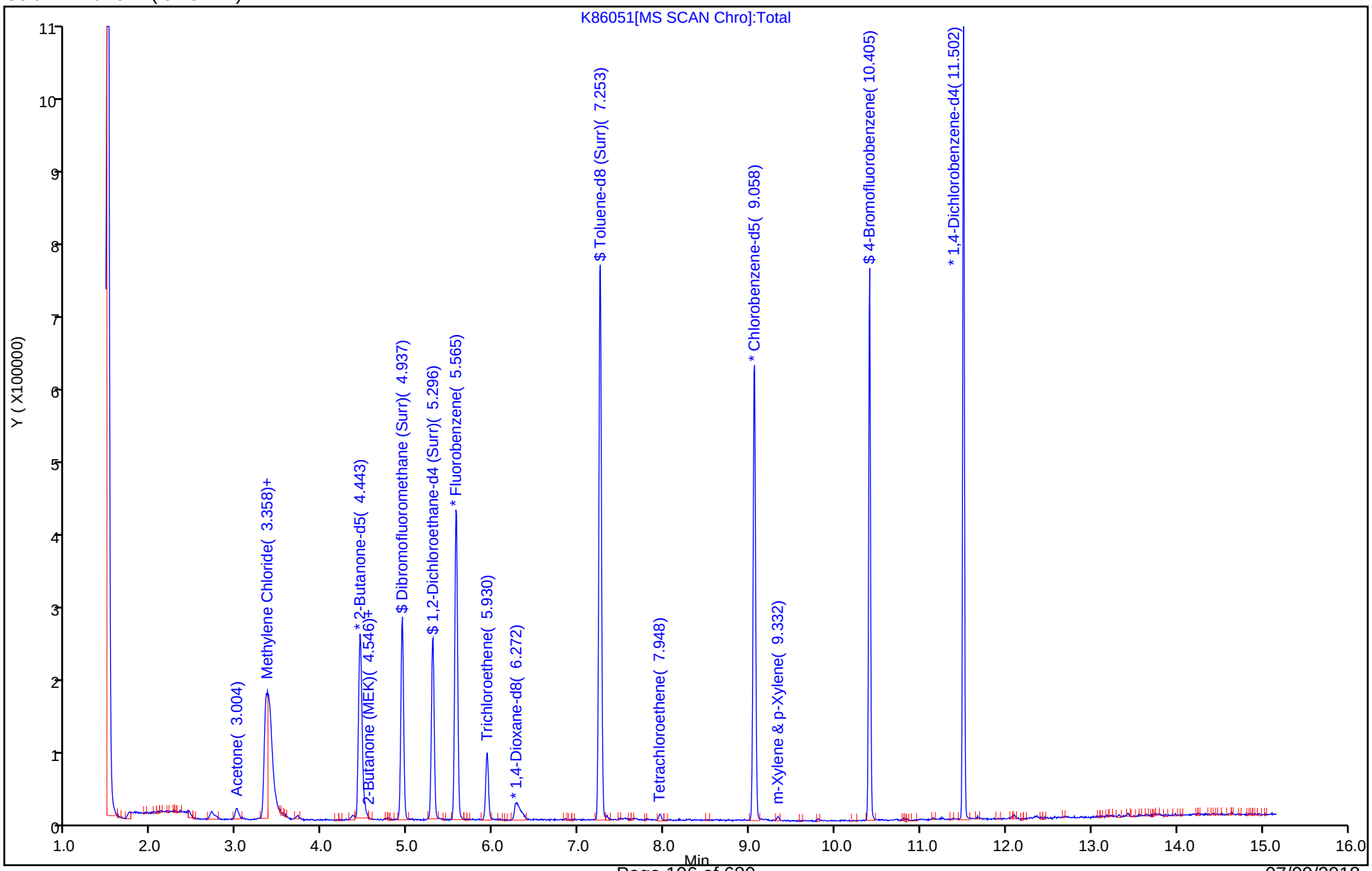
Report Date: 06-Jul-2018 01:32:54 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D

Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4	Worklist Smp#:	19
Client ID:	PDI-14-SO-55-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

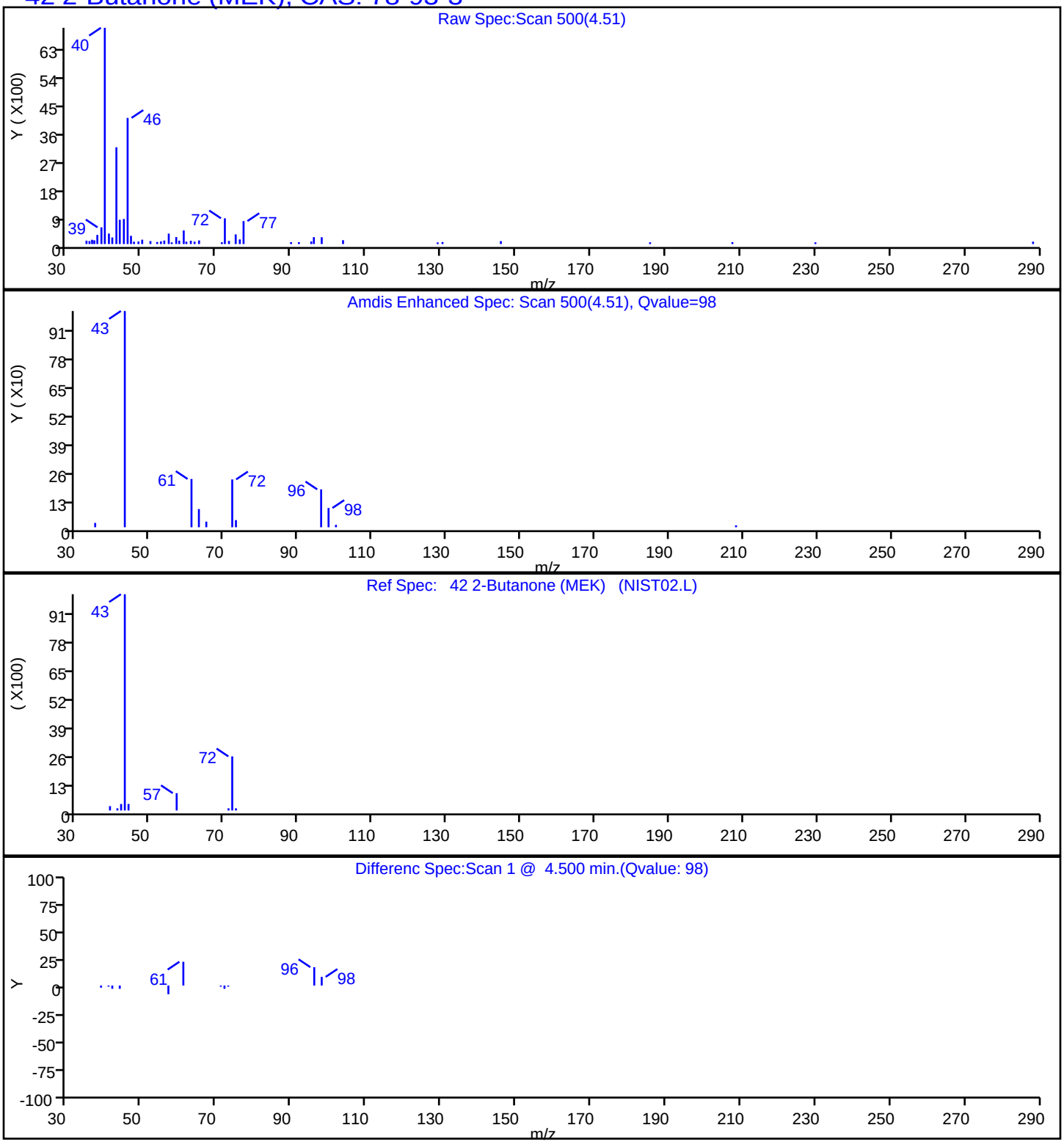
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D				
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9		
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4		
Client ID:	PDI-14-SO-55-06222018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

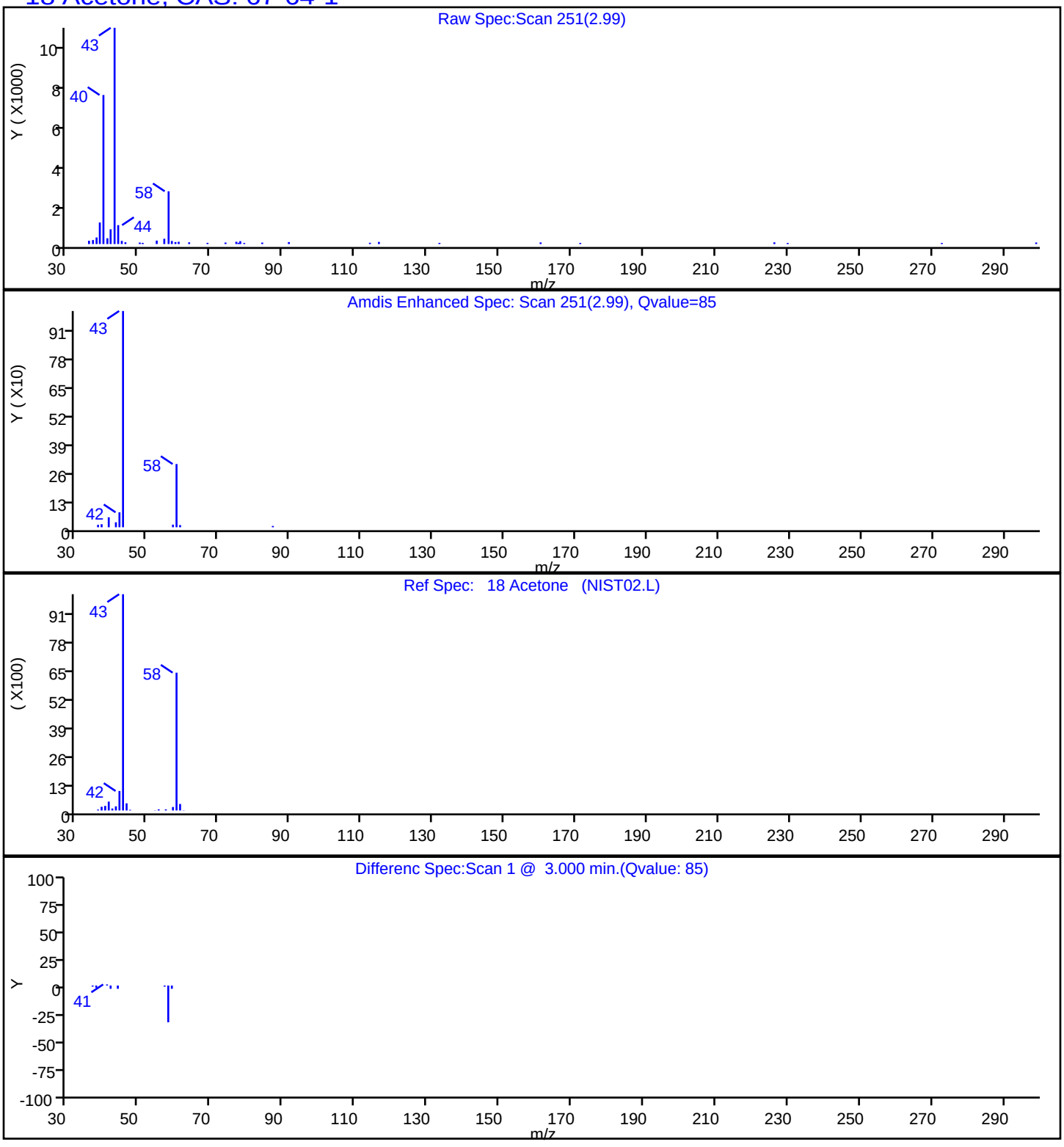
42 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D		
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4
Client ID:	PDI-14-SO-55-06222018		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

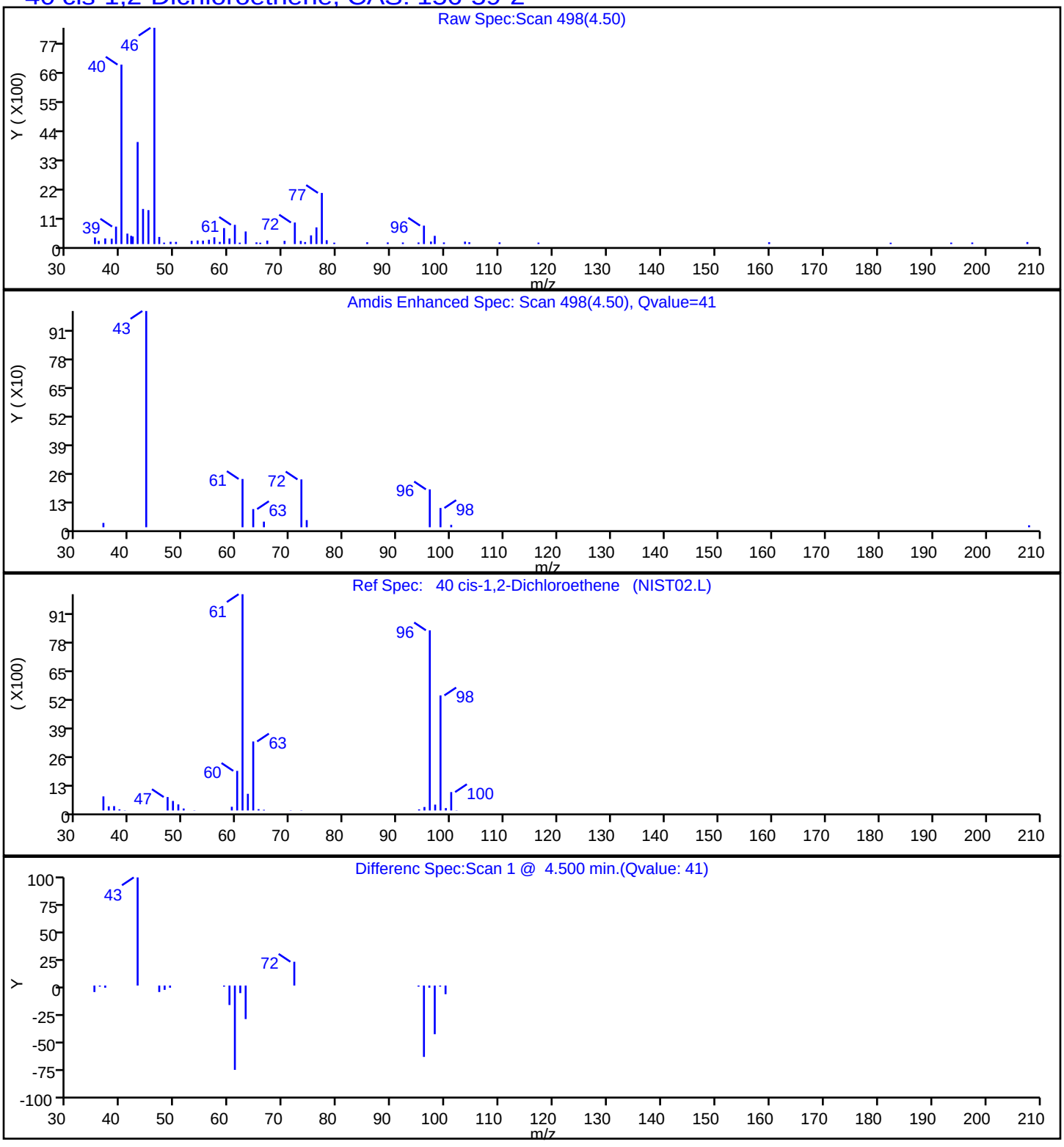
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D				
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9		
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4		
Client ID:	PDI-14-SO-55-06222018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

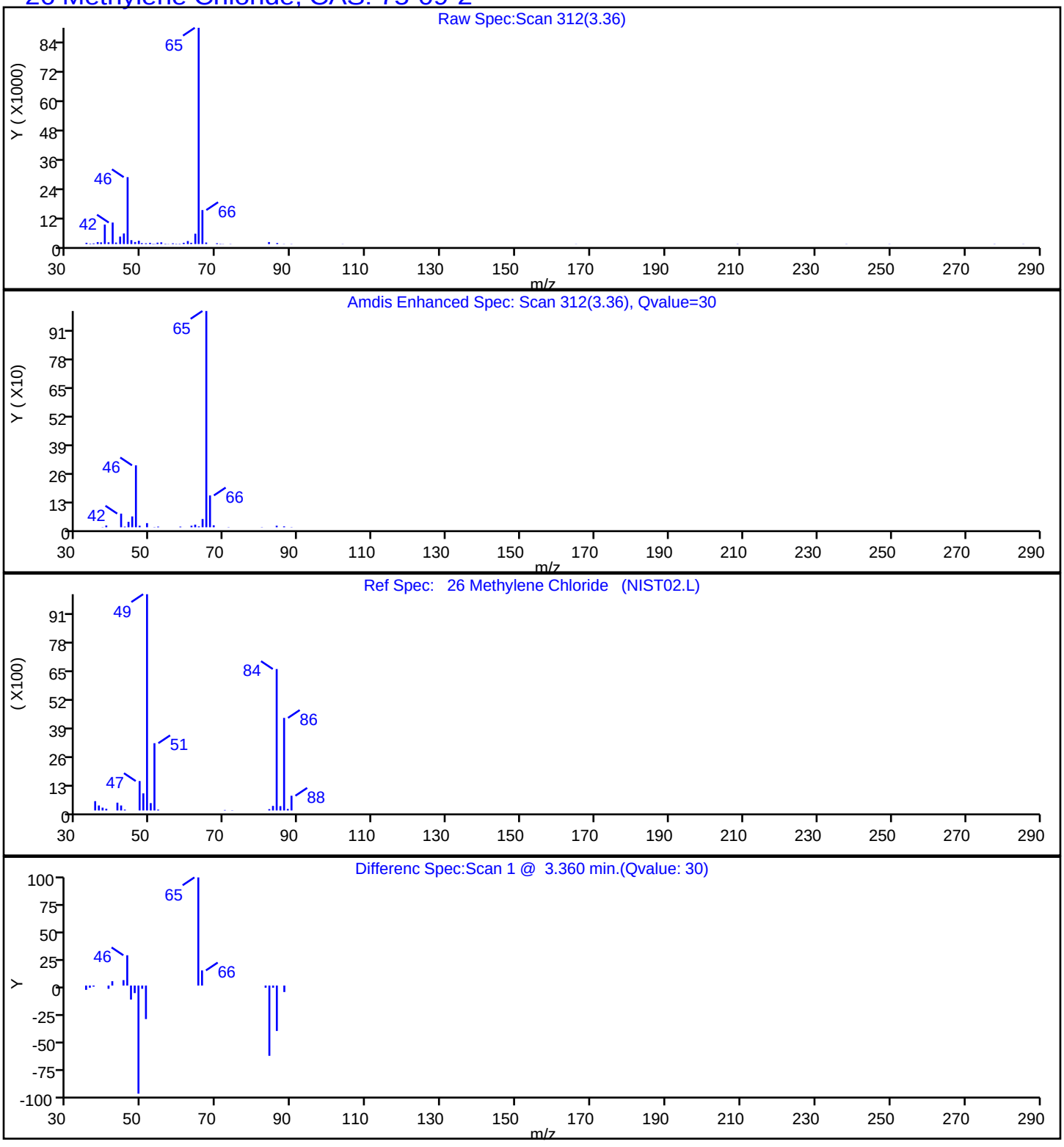
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D				
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9		
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4		
Client ID:	PDI-14-SO-55-06222018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

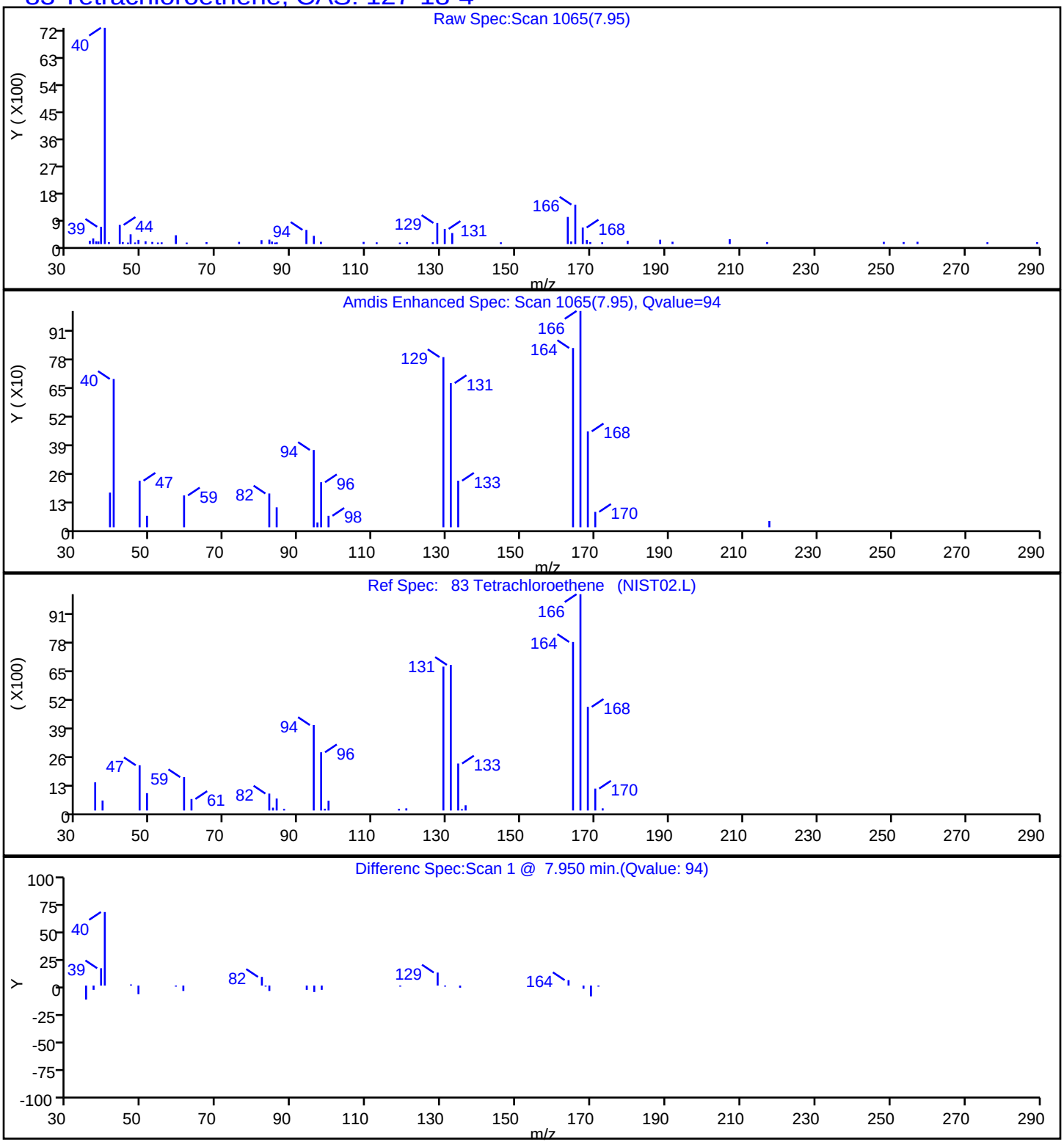
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D		
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4
Client ID:	PDI-14-SO-55-06222018		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

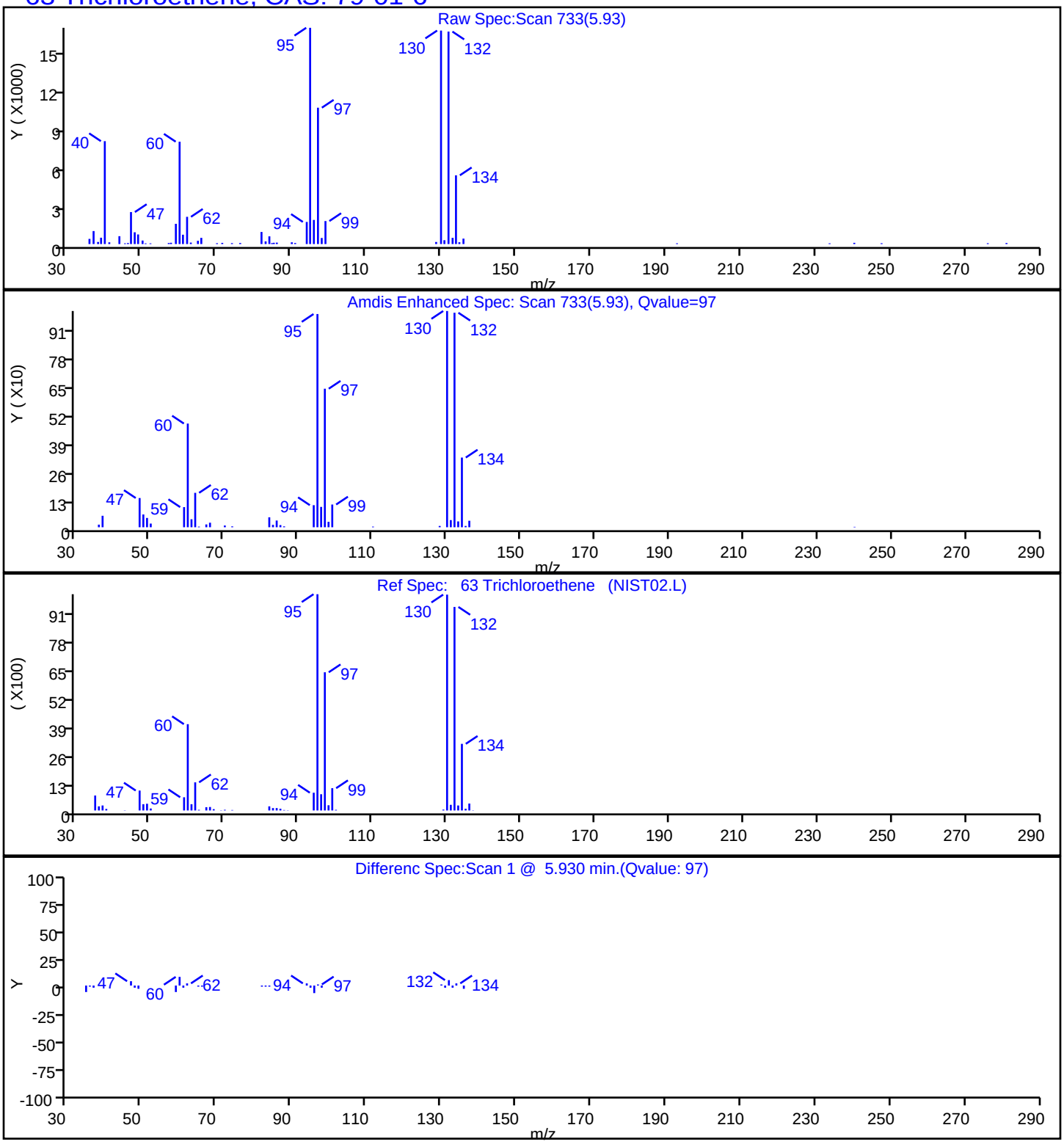
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D		
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4
Client ID:	PDI-14-SO-55-06222018		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

63 Trichloroethene, CAS: 79-01-6



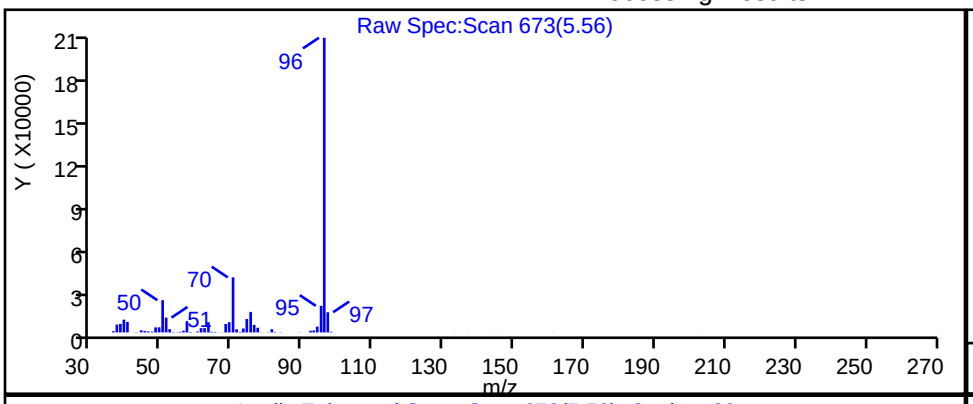
User Disabled Compound Report

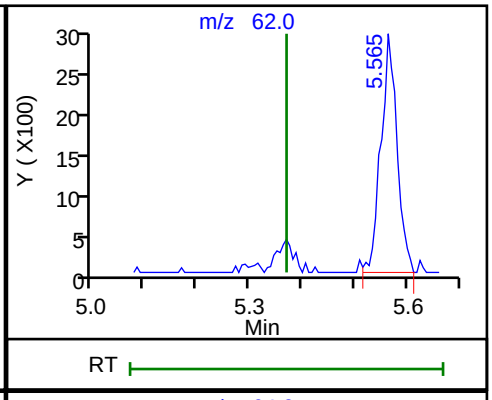
TestAmerica Edison

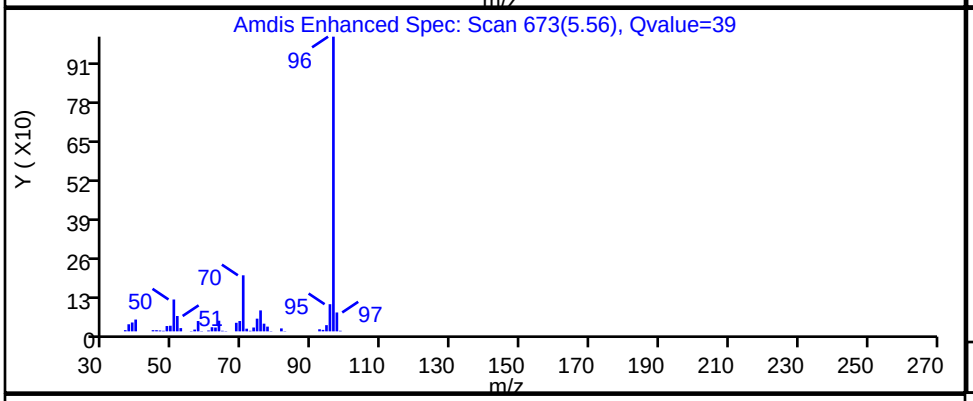
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D				
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9		
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4		
Client ID:	PDI-14-SO-55-06222018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

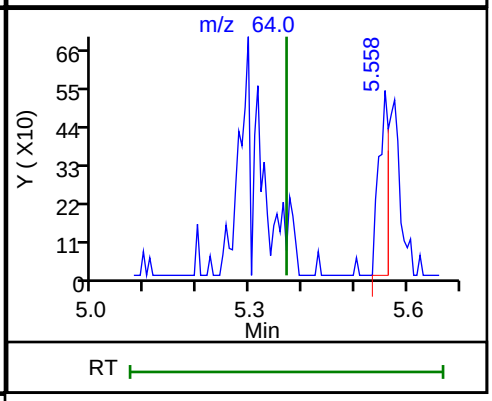
59 1,2-Dichloroethane, CAS: 107-06-2

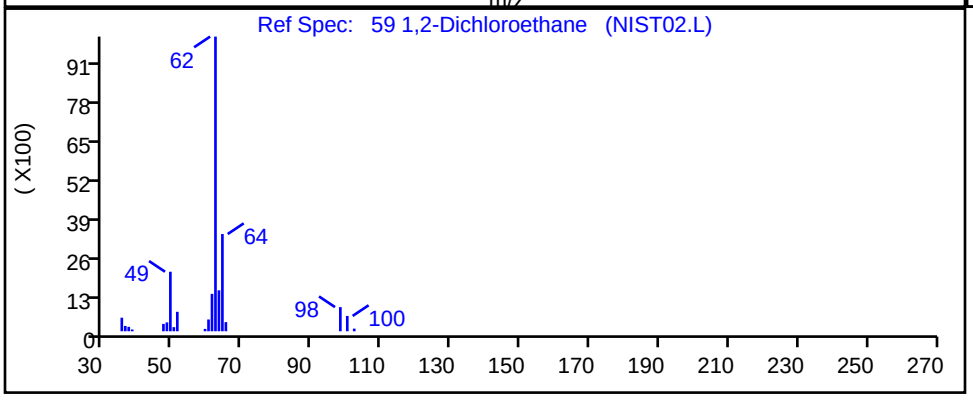
Processing Results











RT	Mass	Response	Amount
5.56	62.00	6417	1.469721
5.56	64.00	684	

Reviewer: starzecm, 04-Jul-2018 11:41:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

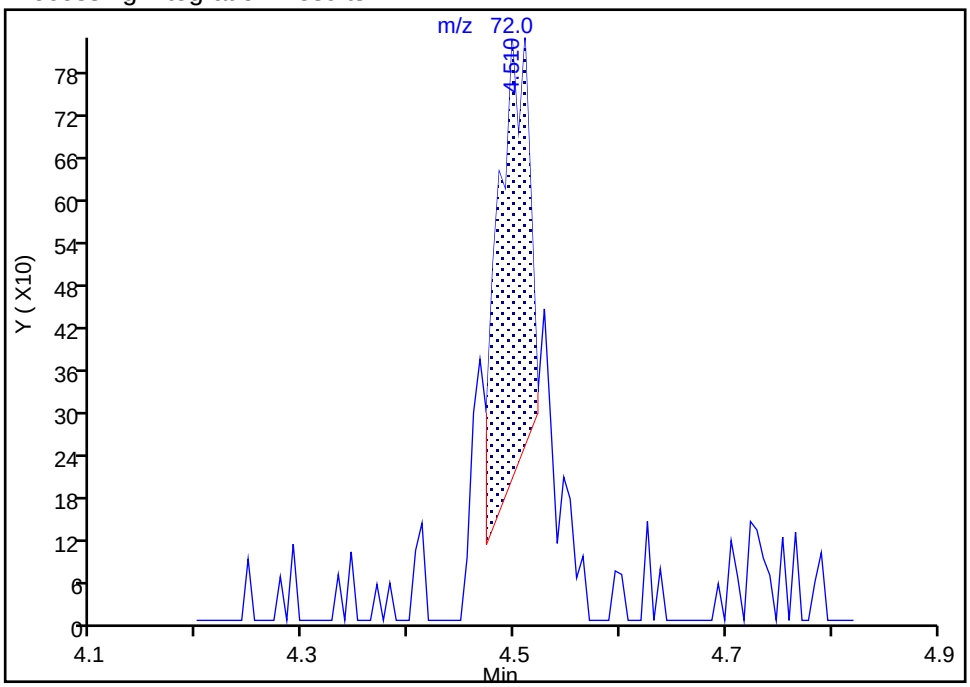
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D				
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9		
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4		
Client ID:	PDI-14-SO-55-06222018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

42 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

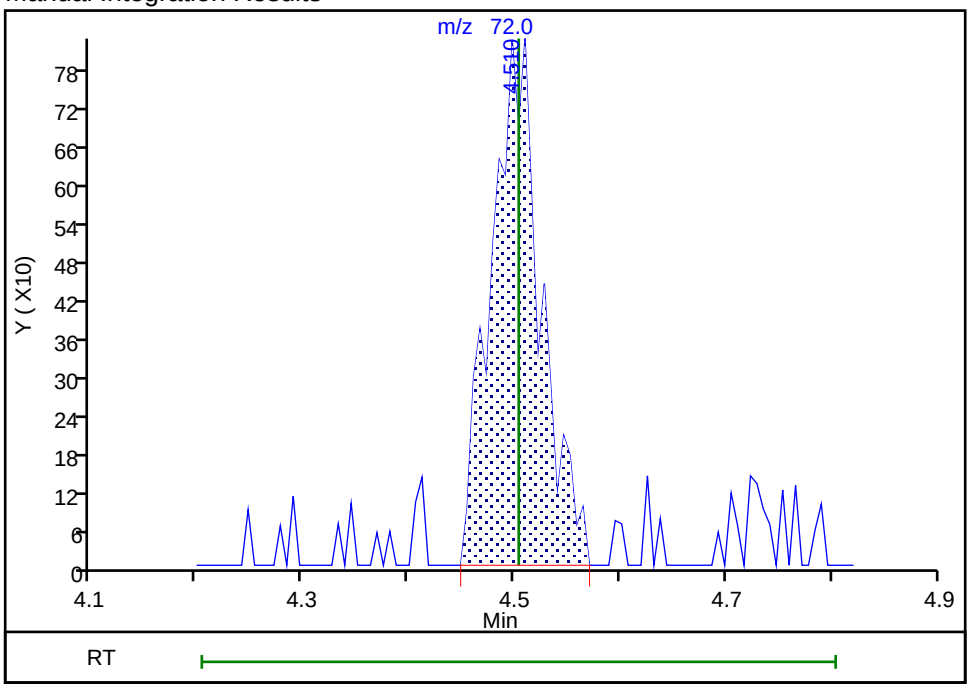
Processing Integration Results

RT: 4.51
Area: 1269
Amount: 1.900377
Amount Units: ug/l



Manual Integration Results

RT: 4.51
Area: 2700
Amount: 4.043356
Amount Units: ug/l



Reviewer: starzecm, 04-Jul-2018 11:41:38

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

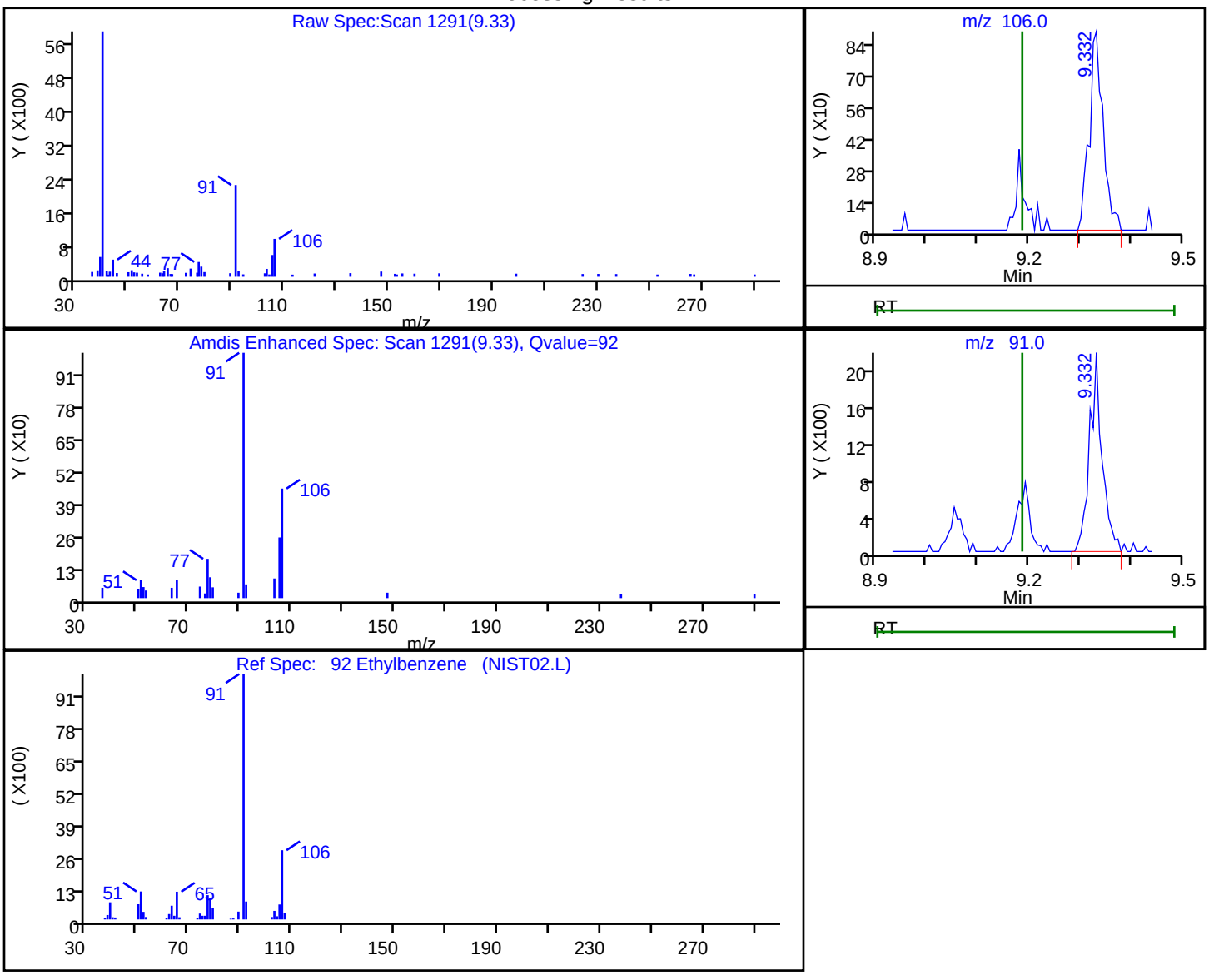
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86051.D		
Injection Date:	04-Jul-2018 07:06:30	Instrument ID:	CVOAMS9
Lims ID:	460-158997-B-4-A	Lab Sample ID:	460-158997-4
Client ID:	PDI-14-SO-55-06222018		
Operator ID:		ALS Bottle#:	18 Worklist Smp#: 19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.33	106.00	1714	0.297677
9.33	91.00	3744	

Reviewer: starzecm, 04-Jul-2018 11:41:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-525211/3	N672372.D
Level 2	STD1 460-525211/4	N672373.D
Level 3	STD5 460-525211/5	N672374.D
Level 4	STD20 460-525211/6	N672375.D
Level 5	STD50 460-525211/7	N672376.D
Level 6	STD200 460-525211/8	N672377.D
Level 7	STD500 460-525211/9	N672378.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.2540	0.2275 0.2477	0.2075	0.2204	0.2525	Ave		0.2349				8.2		20.0			
Dichlorodifluoromethane	+++++ 0.1560	0.1710 0.1620	0.1144	0.1367	0.1584	Ave		0.1497			0.1000	13.8		20.0			
Chloromethane	+++++ 1.7033	1.6290 1.4338	1.5060	1.4455	1.6537	Ave		1.5619			0.1000	7.4		20.0			
Butadiene	0.2947 0.3222	0.2403 0.3436	0.3027	0.2998	0.3365	Ave		0.3057				11.3		20.0			
Vinyl chloride	+++++ 0.3612	0.3406 0.3769	0.3669	0.3622	0.3817	Ave		0.3649			0.1000	4.0		20.0			
Bromomethane	+++++ 0.2042	0.2537 0.1976	0.2277	0.2041	0.2299	Ave		0.2195			0.1000	9.8		20.0			
Chloroethane	+++++ 0.1760	0.1810 0.1605	0.1917	0.1772	0.1918	Ave		0.1797			0.1000	6.5		20.0			
Pentane	+++++ 2.9811	2.6315 2.3665	2.5617	2.7345	2.8545	Ave		2.6883				8.1		20.0			
Trichlorofluoromethane	+++++ 0.4801	0.4536 0.5171	0.4666	0.4810	0.5090	Ave		0.4846			0.1000	5.0		20.0			
Dichlorofluoromethane	+++++ 0.5445	0.5114 0.5704	0.5538	0.5661	0.5959	Ave		0.5570				5.1		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2276	0.2640 0.2335	0.2028	0.2206	0.2255	Ave		0.2290				8.8		20.0			
Ethyl ether	+++++ 0.1913	0.2121 0.1909	0.2087	0.2028	0.2094	Ave		0.2025				4.6		20.0			
Ethanol	+++++ 0.0669	0.0550 0.0615	0.0645	0.0688	0.0641	Ave		0.0635				7.7		20.0			
1,1-Dichloroethene	+++++ 0.2688	0.2387 0.2688	0.2576	0.2606	0.2718	Ave		0.2610			0.1000	4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2957	0.3641 0.2826	0.2993	0.3021	0.3058	Ave		0.3083				9.2		20.0			
Carbon disulfide	+++++ 0.9613	0.9047 0.9525	0.8332	0.8849	0.9628	Ave		0.9166			0.1000	5.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.3251	0.3161 0.3078	0.3053	0.3176	0.3289	Ave		0.3168			0.1000	2.9		20.0			
Iodomethane	+++++ 0.5082	0.5221 0.5120	0.4812	0.4965	0.5083	Ave		0.5047				2.8		20.0			
Cyclopentene	+++++ 0.6806	0.6336 0.6846	0.5827	0.6418	0.6633	Ave		0.6478				5.8		20.0			
Acrolein	+++++ 1.7720	2.0593 1.4890	1.5654	1.7768	1.5018	Ave		1.6940				13.0		20.0			
Allyl chloride	+++++ 0.1595	0.1704 0.1563	0.1359	0.1528	0.1623	Ave		0.1562				7.4		20.0			
Isopropyl alcohol	+++++ 0.6102	0.6206 0.6130	0.7005	0.6088	0.6033	Ave		0.6261				5.9		20.0			
Methylene Chloride	+++++ 0.2907	0.4070 0.2829	0.2940	0.3009	0.3073	Ave		0.3138			0.1000	14.8		20.0			
Acetone	+++++ 0.2340	0.3146 0.2223	0.2720	0.2360	0.2416	Ave		0.2534			0.0500	13.5		20.0			
Methyl acetate	+++++ 1.8078	1.7229 1.5899	2.1840	1.8757	1.8807	Ave		1.8435			0.1000	10.8		20.0			
trans-1,2-Dichloroethene	+++++ 0.2828	0.3692 0.2693	0.2916	0.2974	0.2921	Ave		0.3004			0.1000	11.7		20.0			
Hexane	+++++ 0.2267	0.2393 0.2137	0.2370	0.2215	0.2257	Ave		0.2273				4.2		20.0			
Methyl tert-butyl ether	+++++ 0.7870	0.7966 0.7882	0.7481	0.7609	0.8062	Ave		0.7812			0.1000	2.8		20.0			
2-Methyl-2-propanol	+++++ 1.1453	1.6181 1.1080	1.1426	1.1373	1.1490	Ave		1.2167				16.2		20.0			
Acetonitrile	+++++ 0.7440	0.5079 0.7252	0.6055	0.7761	0.7689	Ave		0.6880				15.7		20.0			
Isopropyl ether	+++++ 0.8464	0.8826 0.8488	0.8251	0.8226	0.8456	Ave		0.8452				2.6		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2440	0.2623 0.2465	0.2114	0.2297	0.2368	Ave		0.2384				7.2		20.0			
1,1-Dichloroethane	+++++ 0.4529	0.5052 0.4405	0.4496	0.4560	0.4653	Ave		0.4616			0.2000	4.9		20.0			
Acrylonitrile	4.6023 3.9830	4.3350 3.3757	3.9697	4.0828	4.1857	Ave		4.0763				9.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	+++++ 0.8285	0.8126 0.8371	0.7454	0.8109	0.8341	Ave		0.8115				4.2		20.0			
Vinyl acetate	+++++ 0.7183	0.7116 0.6503	0.6951	0.7391	0.7541	Ave		0.7114				5.1		20.0			
cis-1,2-Dichloroethene	+++++ 0.3075	0.3603 0.3013	0.2998	0.3085	0.3210	Ave		0.3164			0.1000	7.2		20.0			
2,2-Dichloropropane	+++++ 0.1359	0.1221 0.1350	0.1184	0.1331	0.1344	Ave		0.1298				5.8		20.0			
Chlorobromomethane	+++++ 0.1456	0.1995 0.1419	0.1572	0.1568	0.1534	Ave		0.1591				13.0		20.0			
Cyclohexane	+++++ 0.5385	0.6924 0.5210	0.5026	0.5380	0.5400	Ave		0.5554			0.1000	12.4		20.0			
Chloroform	+++++ 0.4649	0.4778 0.4595	0.4556	0.4572	0.4625	Ave		0.4629			0.2000	1.7		20.0			
Ethyl acetate	+++++ 0.3298	0.4274 0.3184	0.3500	0.3148	0.3337	Ave		0.3457				12.1		20.0			
Methyl acrylate	+++++ 0.1684	0.2241 0.1867	0.1587	0.1695	0.1700	Ave		0.1796				13.2		20.0			
Carbon tetrachloride	+++++ 0.3850	0.3213 0.4002	0.3037	0.3292	0.3493	Ave		0.3481			0.1000	10.8		20.0			
Tetrahydrofuran	+++++ 0.3862	0.5264 0.3681	0.4705	0.4034	0.4004	Ave		0.4258				14.2		20.0			
1,1,1-Trichloroethane	+++++ 0.4650	0.4311 0.4761	0.3915	0.4252	0.4382	Ave		0.4379			0.1000	6.9		20.0			
2-Butanone (MEK)	+++++ 0.3655	0.2877 0.3497	0.3479	0.3642	0.3644	Ave		0.3466			0.0500	8.6		20.0			
1,1-Dichloropropene	+++++ 0.3648	0.3859 0.3647	0.3591	0.3549	0.3601	Ave		0.3649				3.0		20.0			
2,2,4-Trimethylpentane	+++++ 0.8055	0.5919 0.7862	0.6046	0.6859	0.7422	Ave		0.7027				12.9		20.0			
n-Heptane	+++++ 0.2062	0.2010 0.1816	0.1605	0.1686	0.1889	Ave		0.1845				9.7		20.0			
Benzene	+++++ 1.4165	1.4792 1.4064	1.4130	1.4079	1.4187	Ave		1.4236			0.5000	1.9		20.0			
Propionitrile	+++++ 1.4822	1.6057 1.2873	1.6175	1.5474	1.5115	Ave		1.5086				8.0		20.0			
Methacrylonitrile	+++++ 0.0833	0.0915 0.0875	0.0852	0.0901	0.0915	Ave		0.0882				3.9		20.0			
Tert-amyl methyl ether	+++++ 0.8203	0.7577 0.8441	0.7387	0.7851	0.8095	Ave		0.7926				5.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Isobutyl alcohol	+++++ 0.4626	0.3952 0.4579	0.4176	0.4014	0.4378	Ave		0.4287				6.7		20.0			
1,2-Dichloroethane	+++++ 0.2931	0.3916 0.3048	0.3125	0.3031	0.3068	Ave		0.3186			0.1000	11.4		20.0			
Isopropyl acetate	+++++ 0.3644	0.3746 0.4071	0.3784	0.3604	0.3649	Ave		0.3750				4.6		20.0			
Methylcyclohexane	+++++ 0.5586	0.5288 0.5387	0.4598	0.5014	0.5449	Ave		0.5220			0.1000	6.9		20.0			
Trichloroethene	+++++ 0.2653	0.3103 0.2624	0.2678	0.2694	0.2684	Ave		0.2739			0.2000	6.6		20.0			
n-Butanol	+++++ 0.2832	0.2342 0.2979	0.2374	0.2464	0.2591	Ave		0.2597				9.9		20.0			
Dibromomethane	+++++ 0.1425	0.1567 0.1450	0.1322	0.1467	0.1457	Ave		0.1448				5.4		20.0			
1,2-Dichloropropane	+++++ 0.2533	0.2553 0.2511	0.2482	0.2494	0.2580	Ave		0.2525			0.1000	1.5		20.0			
Ethyl acrylate	+++++ 0.2348	0.2922 0.2627	0.2143	0.2238	0.2401	Ave		0.2447				11.7		20.0			
Bromodichloromethane	+++++ 0.3135	0.2918 0.3303	0.2865	0.2867	0.2998	Ave		0.3014			0.2000	5.8		20.0			
Methyl methacrylate	+++++ 0.0644	0.0902 0.0708	0.0550	0.0636	0.0650	Ave		0.0682				17.4		20.0			
1,4-Dioxane	+++++ 1.1439	1.5183 1.1409	1.3885	1.2495	1.0796	Ave		1.2535				13.5		20.0			
n-Propyl acetate	+++++ 0.2524	0.2579 0.2885	0.2452	0.2431	0.2587	Ave		0.2576				6.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1377	0.1209 0.1520	0.1150	0.1232	0.1366	Ave		0.1309				10.5		20.0			
cis-1,3-Dichloropropene	+++++ 0.4978	0.4679 0.5293	0.4178	0.4420	0.4730	Ave		0.4713			0.2000	8.4		20.0			
Toluene	+++++ 1.5259	1.7664 1.5295	1.5859	1.4807	1.5234	Ave		1.5686			0.4000	6.5		20.0			
Epichlorohydrin	0.3064 0.2579	0.3176 0.2559	0.2402	0.2392	0.2517	Ave		0.2670				11.9		20.0			
2-Nitropropane	+++++ 1.9546	1.6906 2.0974	1.5531	1.4388	1.6421	Ave		1.7294				14.4		20.0			
Tetrachloroethene	+++++ 0.3919	0.4631 0.3885	0.3917	0.3810	0.3911	Ave		0.4012			0.2000	7.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.7422	2.4783 2.6496	2.2944	2.4681	2.5834	Ave		2.5360			0.0500	6.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	+++++ 0.4427	0.3967 0.4673	0.3699	0.3894	0.4223	Ave		0.4147			0.1000	8.8		20.0			
1,1,2-Trichloroethane	+++++ 0.2136	0.2855 0.2178	0.2051	0.2153	0.2271	Ave		0.2274			0.1000	12.9		20.0			
Ethyl methacrylate	+++++ 0.2981	0.2903 0.3171	0.2472	0.2652	0.2922	Ave		0.2850				8.7		20.0			
Dibromochloromethane	+++++ 0.2957	0.2543 0.3311	0.2321	0.2356	0.2654	Ave		0.2690			0.1000	14.2		20.0			
1,3-Dichloropropane	+++++ 0.4721	0.5945 0.4915	0.4751	0.4651	0.4903	Ave		0.4981				9.7		20.0			
1,2-Dibromoethane	+++++ 0.2706	0.2747 0.2809	0.2526	0.2562	0.2711	Ave		0.2677			0.1000	4.1		20.0			
n-Butyl acetate	+++++ 0.3937	0.3710 0.4518	0.3282	0.3492	0.3792	Ave		0.3789				11.2		20.0			
2-Hexanone	+++++ 1.0275	0.8747 1.0017	0.8566	0.9117	0.9819	Ave		0.9423			0.0500	7.5		20.0			
Chlorobenzene	+++++ 1.0179	1.0233 1.0042	1.0135	1.0328	1.0410	Ave		1.0221			0.5000	1.3		20.0			
Ethylbenzene	+++++ 0.5713	0.5685 0.5645	0.5476	0.5599	0.5765	Ave		0.5647			0.1000	1.8		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3693	0.3342 0.3920	0.2887	0.3099	0.3390	Ave		0.3388				11.1		20.0			
m-Xylene & p-Xylene	+++++ 0.7084	0.7252 0.7056	0.5892	0.6371	0.7021	Ave		0.6779			0.1000	7.8		20.0			
o-Xylene	+++++ 0.7085	0.6279 0.7147	0.6010	0.6449	0.6904	Ave		0.6645			0.3000	7.0		20.0			
Styrene	+++++ 1.1202	0.9457 1.1189	0.8889	0.9905	1.0924	Ave		1.0261			0.3000	9.6		20.0			
Bromoform	+++++ 0.3002	0.2861 0.3429	0.2319	0.2252	0.2604	Ave		0.2745			0.1000	16.2		20.0			
n-Butyl acrylate	+++++ 0.2382	0.1512 0.2588	0.1782	0.1879	0.2077	Ave		0.2037				19.5		20.0			
Isopropylbenzene	+++++ 1.8869	1.5858 1.9099	1.5811	1.7205	1.8215	Ave		1.7510			0.1000	8.3		20.0			
Amyl acetate (mixed isomers)	+++++ 0.9315	0.8035 1.0142	0.6797	0.7878	0.8378	Ave		0.8424				13.9		20.0			
Bromobenzene	+++++ 0.7710	0.7953 0.7635	0.7496	0.7578	0.7809	Ave		0.7697				2.1		20.0			
N-Propylbenzene	+++++ 3.4841	3.0700 3.4608	3.0908	3.3041	3.4733	Ave		3.3138				5.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2,2-Tetrachloroethane	+++++ 0.5443	0.7250 0.5764	0.5462	0.5792	0.5769	Ave		0.5913			0.3000	11.4		20.0			
4-Ethyltoluene	+++++ 3.0764	2.5589 3.1156	2.6743	2.8778	2.9981	Ave		2.8835				7.8		20.0			
2-Chlorotoluene	+++++ 2.3926	2.1773 2.4318	2.2269	2.3020	2.3653	Ave		2.3160				4.3		20.0			
1,3,5-Trimethylbenzene	+++++ 2.6807	2.2549 2.7256	2.2382	2.4425	2.6196	Ave		2.4936				8.6		20.0			
1,2,3-Trichloropropane	+++++ 0.1857	0.2611 0.1915	0.2055	0.1871	0.2022	Ave		0.2055				13.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1483	0.1843 0.1632	0.1315	0.1412	0.1356	Ave		0.1507				13.2		20.0			
4-Chlorotoluene	+++++ 2.1416	1.8846 2.1555	1.9527	2.0414	2.1034	Ave		2.0465				5.3		20.0			
tert-Butylbenzene	+++++ 2.3311	1.8870 2.3421	1.9155	2.0781	2.2074	Ave		2.1269				9.4		20.0			
Butyl Methacrylate	+++++ 0.8739	0.5845 0.8813	0.5604	0.7145	0.7827	Ave		0.7329				19.0		20.0			
1,2,4-Trimethylbenzene	+++++ 2.7822	2.5265 2.8482	2.2643	2.5834	2.7440	Ave		2.6248				8.2		20.0			
sec-Butylbenzene	+++++ 3.3869	2.7272 3.4459	2.7411	3.0291	3.2639	Ave		3.0990				10.2		20.0			
4-Isopropyltoluene	+++++ 3.0898	2.4472 3.1361	2.3771	2.7445	2.9526	Ave		2.7912				11.6		20.0			
1,3-Dichlorobenzene	+++++ 1.5306	1.6383 1.5169	1.5615	1.5392	1.5389	Ave		1.5542			0.6000	2.8		20.0			
1,4-Dichlorobenzene	+++++ 1.5414	1.6334 1.5258	1.5111	1.5688	1.5635	Ave		1.5573			0.5000	2.8		20.0			
1,2,3-Trimethylbenzene	+++++ 2.9613	2.6368 3.0927	2.5653	2.7943	2.8747	Ave		2.8208				7.0		20.0			
Indan	+++++ 2.9345	2.6178 3.0660	2.6091	2.7893	2.9218	Ave		2.8231				6.5		20.0			
p-Diethylbenzene	+++++ 1.6222	1.2560 1.6655	1.3548	1.5294	1.5862	Ave		1.5024				10.8		20.0			
Benzyl chloride	+++++ 0.2704	0.2266 0.3000	0.1920	0.2108	0.2346	Ave		0.2391				16.6		20.0			
n-Butylbenzene	+++++ 1.4330	1.2057 1.4097	1.1545	1.3839	1.4100	Ave		1.3328				9.0		20.0			
1,2-Dichlorobenzene	+++++ 1.5041	1.6894 1.5069	1.4217	1.5369	1.5292	Ave		1.5314			0.4000	5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 3.0260	2.1249 3.2351	2.1757	2.5403	2.8113	Ave		2.6522				17.0		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1030	0.1197 0.1264	0.0959	0.0914	0.0973	Ave		0.1056			0.0500	13.4		20.0			
1,3,5-Trichlorobenzene	+++++ 1.2171	1.1971 1.2780	1.1950	1.2036	1.1782	Ave		1.2115				2.9		20.0			
Hexachlorobutadiene	+++++ 0.3833	0.4565 0.4217	0.3294	0.3479	0.3758	Ave		0.3858				12.2		20.0			
1,2,4-Trichlorobenzene	+++++ 1.1598	1.0376 1.2300	1.0602	1.1308	1.1608	Ave		1.1299			0.2000	6.3		20.0			
Naphthalene	+++++ 2.5820	2.2427 2.9808	2.0379	2.2863	2.5308	Ave		2.4434				13.5		20.0			
1,2,3-Trichlorobenzene	+++++ 1.0526	1.0810 1.1325	0.9489	1.0243	1.0614	Ave		1.0501				5.8		20.0			
Dibromofluoromethane (Surr)	0.2373 0.2459	0.2344 0.2414	0.2349	0.2461	0.2439	Ave		0.2406				2.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2350 0.2406	0.2328 0.2595	0.2298	0.2389	0.2448	Ave		0.2402				4.1		20.0			
Toluene-d8 (Surr)	1.2701 1.2910	1.2926 1.3239	1.2630	1.2663	1.2735	Ave		1.2829				1.7		20.0			
4-Bromofluorobenzene	0.4013 0.4148	0.3981 0.4267	0.3926	0.4039	0.4155	Ave		0.4076				2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-525211/3	N672372.D
Level 2	STD1 460-525211/4	N672373.D
Level 3	STD5 460-525211/5	N672374.D
Level 4	STD20 460-525211/6	N672375.D
Level 5	STD50 460-525211/7	N672376.D
Level 6	STD200 460-525211/8	N672377.D
Level 7	STD500 460-525211/9	N672378.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 572371	2462 1474539	11020	46700	136815	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 351455	1850 964049	6075	28961	85836	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	BUT	Ave	+++++ 270243	1275 678422	5824	22814	67825	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	778 726018	2600 2045420	16075	63524	182343	0.250 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 813992	3685 2243638	19484	76737	206803	+++++ 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 460095	2745 1176152	12092	43233	124551	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 396491	1958 955460	10183	37535	103949	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 241031	1060 614292	4884	21814	59260	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 1081810	4908 3078157	24779	101912	275797	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 1226931	5533 3395253	29415	119947	322894	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 512951	2857 1389902	10769	46735	122194	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 431100	2295 1136527	11086	42965	113446	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd 9	Ave	+++++ 108175	443 319130	2458	10984	26631	+++++ 8000	40.0 20000	200	800	2000
1,1-Dichloroethene	FB	Ave	+++++ 605754	2583 1600064	13682	55205	147259	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 666240	3940 1682359	15896	63997	165672	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Carbon disulfide	FB	Ave	+++++ 2166113	9789 5669680	44251	187480	521683	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 732530	3420 1832171	16217	67299	178217	+++++ 200	1.00 500	5.00	20.0	50.0
Iodomethane	FB	Ave	+++++ 1145248	5649 3047736	25558	105192	275441	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclopentene	FB	Ave	+++++ 1533569	6856 4074865	30948	135981	359432	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 71635	1659 154601	5969	14174	31178	+++++ 200	4.00 400	20.0	40.0	100
Allyl chloride	FB	Ave	+++++ 359397	1844 930318	7218	32372	87920	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 246674	1250 795657	6678	24285	62619	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 655008	4404 1683841	15615	63751	166512	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 185656	1231 526020	5259	18624	49554	+++++ 1000	5.00 2500	25.0	100	250
Methyl acetate	TBAd9	Ave	+++++ 146168	694 412692	4164	14963	39044	+++++ 400	2.00 1000	10.0	40.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 637251	3995 1602968	15488	63019	158249	+++++ 200	1.00 500	5.00	20.0	50.0
Hexane	FB	Ave	+++++ 510894	2589 1271826	12588	46928	122289	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl tert-butyl ether	FB	Ave	+++++ 1773505	8619 4691558	39734	161202	436855	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 462997	3259 1438116	10892	45365	119268	+++++ 2000	10.0 5000	50.0	200	500
Acetonitrile	TBAd9	Ave	+++++ 300782	1023 941239	5772	30958	79816	+++++ 2000	10.0 5000	50.0	200	500
Isopropyl ether	FB	Ave	+++++ 1907374	9550 5051974	43823	174282	458196	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 549774	2838 1467073	11228	48671	128311	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1020594	5466 2621794	23879	96610	252116	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	TBAd9	Ave	1796 1610153	8731 4381215	37842	162850	434486	2.00 2000	10.0 5000	50.0	200	500
Tert-butyl ethyl ether	FB	Ave	+++++ 1867056	8793 4982484	39591	171813	451936	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	BUT	Ave	+++++ 227936	1114 615379	5376	23330	61860	+++++ 400	2.00 1000	10.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	+++++ 692885	3899 1793561	15925	65363	173946	+++++ 200	1.00 500	5.00	20.0	50.0
2,2-Dichloropropane	FB	Ave	+++++ 306301	1321 803341	6289	28195	72812	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobromomethane	FB	Ave	+++++ 328041	2159 844840	8350	33217	83121	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1213483	7492 3101360	26696	113996	292581	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroform	FB	Ave	+++++ 1047548	5170 2734987	24200	96857	250620	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 104668	669 301287	2707	9937	27376	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 379495	2425 1111497	8427	35911	92121	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 867466	3477 2381799	16131	69743	189265	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 122553	824 348343	3639	12733	32842	+++++ 400	2.00 1000	10.0	40.0	100
1,1,1-Trichloroethane	FB	Ave	+++++ 1047752	4665 2833718	20793	90097	237441	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 289975	1126 827279	6727	28736	74726	+++++ 1000	5.00 2500	25.0	100	250
1,1-Dichloropropene	FB	Ave	+++++ 822077	4176 2170588	19070	75196	195143	+++++ 200	1.00 500	5.00	20.0	50.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 1815148	6404 4679695	32109	145323	402180	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 464663	2175 1080777	8526	35715	102361	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZ d5	Ave	+++++ 2492237	12164 6521931	58616	238062	611754	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 599175	3234 1670811	15419	61720	156900	+++++ 2000	10.0 5000	50.0	200	500
Methacrylonitrile	FB	Ave	+++++ 1877034	9896 5209893	45247	190979	495921	+++++ 2000	10.0 5000	50.0	200	500
Tert-amyl methyl ether	FB	Ave	+++++ 1848557	8199 5024361	39235	166338	438630	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 467484	1990 1485620	9952	40022	113615	+++++ 5000	25.0 12500	125	500	1250
1,2-Dichloroethane	FB	Ave	+++++ 660364	4237 1814262	16595	64225	166257	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 821126	4053 2423300	20099	76361	197743	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Methylcyclohexane	FB	Ave	+++++ 1258703	5722 3206347	24420	106234	295239	+++++ 200	1.00 500	5.00	20.0	50.0
Trichloroethene	FB	Ave	+++++ 597736	3358 1561750	14223	57082	145428	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd9	Ave	+++++ 286201	1179 966504	5658	24572	67233	+++++ 5000	25.0 12500	125	500	1250
Dibromomethane	FB	Ave	+++++ 321063	1695 863339	7021	31082	78938	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 570715	2762 1494482	13181	52841	139776	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 529014	3162 1563915	11383	47422	130096	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 706400	3157 1965907	15214	60745	162439	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 290241	1951 842595	5847	26959	70471	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 113557	2067 343361	3437	13019	30909	+++++ 4000	50.0 10000	100	400	1000
n-Propyl acetate	FB	Ave	+++++ 568858	2791 1717081	13024	51507	140159	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 310377	1308 904641	6106	26102	74008	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 875759	3848 2454418	17331	74736	203952	+++++ 200	1.00 500	5.00	20.0	50.0
Toluene	CBNZ d5	Ave	+++++ 2684663	14525 7092775	65789	250355	656880	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	1172 818518	4971 2421740	18575	75514	206433	5.00 4000	20.0 10000	100	400	1000
2-Nitropropane	TBAd9	Ave	+++++ 158033	681 544427	2961	11478	34090	+++++ 400	2.00 1000	10.0	40.0	100
Tetrachloroethene	CBNZ d5	Ave	+++++ 689595	3808 1801765	16250	64413	168646	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2175401	9699 6268748	44363	194765	529795	+++++ 1000	5.00 2500	25.0	100	250
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 778949	3262 2167141	15343	65837	182117	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 375855	2348 1010018	8507	36397	97919	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	FB	Ave	+++++ 671806	3141 1887556	13127	56196	158321	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 520254	2091 1535229	9630	39836	114446	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 830612	4889 2279234	19709	78635	211436	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 476159	2259 1302467	10480	43326	116906	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 692768	3051 2095314	13617	59041	163491	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Ave	+++++ 815137	3423 2369930	16562	71944	201360	+++++ 1000	5.00 2500	25.0	100	250
Chlorobenzene	CBNZ d5	Ave	+++++ 1790904	8415 4656614	42045	174627	448889	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1005221	4675 2617951	22716	94662	248592	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 649750	2748 1817611	11978	52395	146197	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1246357	5963 3272234	24442	107719	302743	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 1246500	5163 3314478	24930	109038	297696	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 1970889	7777 5188637	36874	167478	471042	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	DCBd 4	Ave	+++++ 308712	1360 941661	5556	21892	65574	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 419140	1243 1200254	7394	31778	89559	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 3319780	13040 8856718	65591	290916	785449	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 957960	3819 2785010	16283	76581	210957	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 792894	3780 2096600	17957	73660	196632	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 3583244	14592 9503362	74043	321169	874621	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 559767	3446 1582682	13085	56296	145268	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 3163937	12163 8555482	64066	279735	754963	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 2460667	10349 6677756	53348	223766	595617	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2757001	10718 7484493	53617	237423	659658	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 190960	1241 525770	4923	18191	50912	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 152501	876 448031	3150	13726	34144	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 2202513	8958 5919169	46779	198433	529656	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2397381	8969 6431411	45887	201998	555864	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 898729	2778 2419961	13424	69452	197100	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2861339	12009 7821289	54243	251116	690983	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 3483254	12963 9462563	65666	294440	821893	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 3177754	11632 8611826	56945	266774	743498	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1574110	7787 4165499	37408	149618	387506	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1585260	7764 4189797	36200	152489	393709	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 3045576	12533 8492539	61454	271615	723884	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 3017992	12443 8419386	62502	271127	735755	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 1668310	5970 4573481	32455	148667	399438	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 278073	1077 823842	4599	20494	59069	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 1473722	5731 3871160	27657	134519	355063	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1546900	8030 4138002	34057	149393	385077	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 3112115	10100 8883672	52121	246926	707917	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 105915	569 346968	2297	8883	24493	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1251780	5690 3509410	28626	116991	296674	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 394240	2170 1158011	7892	33814	94637	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1192822	4932 3377659	25399	109920	292313	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 2655412	10660 8185275	48820	222234	637297	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525211

SDG No.:

Instrument ID: CVOAMS11 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 09:01 Calibration End Date: 06/05/2018 11:19 Calibration ID: 69251

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1082499	5138 3109995	22731	99570	267269	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	125305 138541	126825 143674	124737	130341	132152	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	124060 135547	125945 154485	122074	126561	132646	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	527695 567852	531450 613932	523951	535268	549129	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	166727 182461	163697 197870	162875	170712	179182	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:
Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Jun-2018 09:01:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0073222-003
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:46:05 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 05-Jun-2018 13:01:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.796	1.796	0.000	47	778	0.2500	0.2410	a
* 27 TBA-d9 (IS)	65	3.360	3.366	-0.006	39	195120	1000.0	1000.0	
31 Acrylonitrile	53	3.852	3.846	0.006	75	1796	2.00	2.26	
$ 51 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	97	125305	50.0	49.3	
* 39 2-Butanone-d5	46	4.759	4.759	0.000	0	191258	250.0	250.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.209	5.215	-0.006	96	124060	50.0	48.9	
* 62 Fluorobenzene	96	5.495	5.495	0.000	99	527987	50.0	50.0	
* 68 1,4-Dioxane-d8	96	6.511	6.505	0.006	30	24607	1000.0	1000.0	
$ 79 Toluene-d8 (Surr)	98	7.277	7.283	-0.006	100	527695	50.0	49.5	
76 Epichlorohydrin	57	7.381	7.375	0.006	63	1172	5.00	5.74	a
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	83	415488	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	93	166727	50.0	49.2	
* 117 1,4-Dichlorobenzene-d4	152	11.536	11.536	0.000	93	234636	50.0	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

GAS Hi_00257	Amount Added:	0.00	Units: uL	
MIX I Hi_00094	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	0.00	Units: uL	
Ethanol mix_00016	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00050	Amount Added:	20.00	Units: uL	
14DIOXINTER_00078	Amount Added:	0.00	Units: uL	
ACROLEIN W_00077	Amount Added:	0.00	Units: uL	
GASES Li_00262	Amount Added:	2.50	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

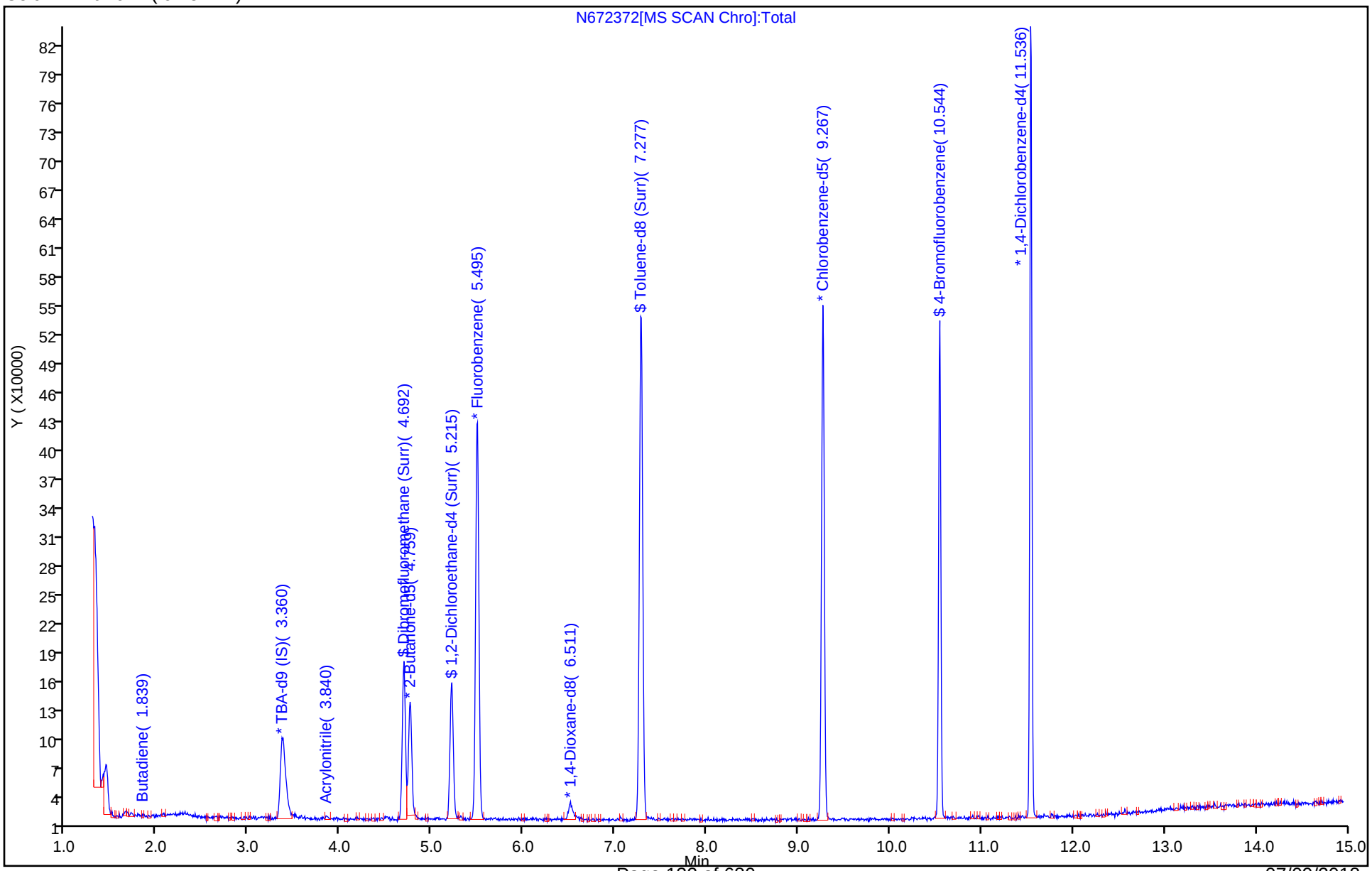
Report Date: 05-Jun-2018 14:46:13 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D

Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

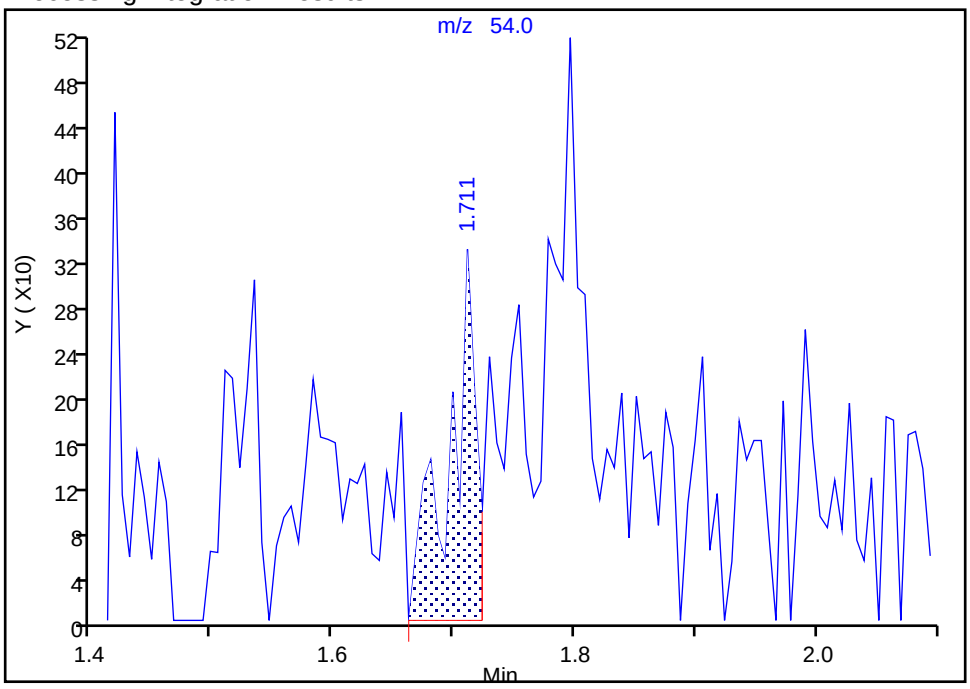
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Butadiene, CAS: 106-99-0

Signal: 1

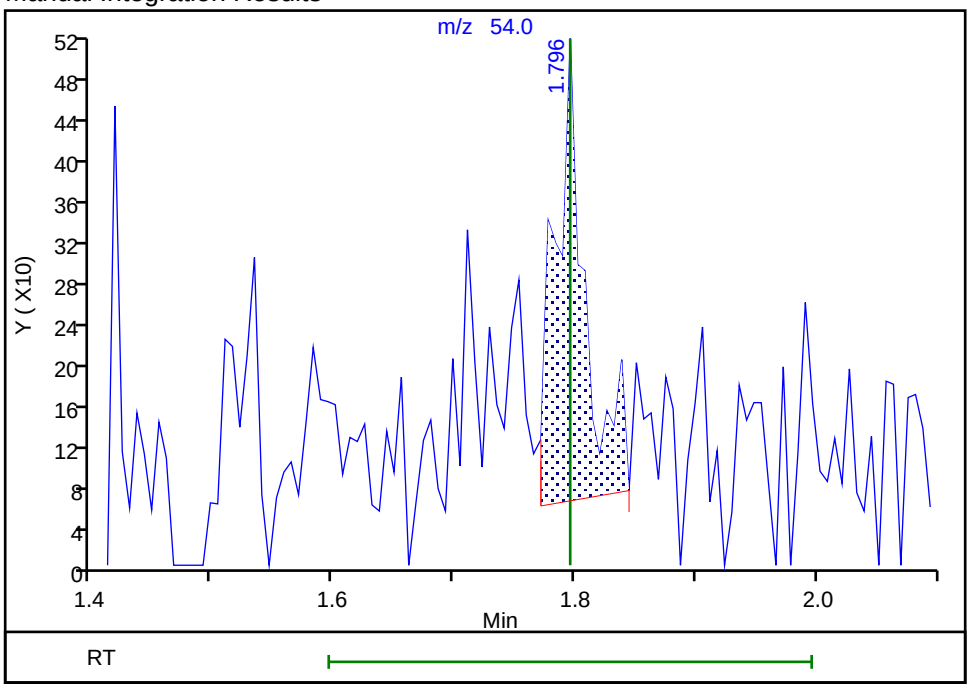
Processing Integration Results

RT: 1.71
Area: 502
Amount: 0.163502
Amount Units: ug/l



Manual Integration Results

RT: 1.80
Area: 778
Amount: 0.241015
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:00:11
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

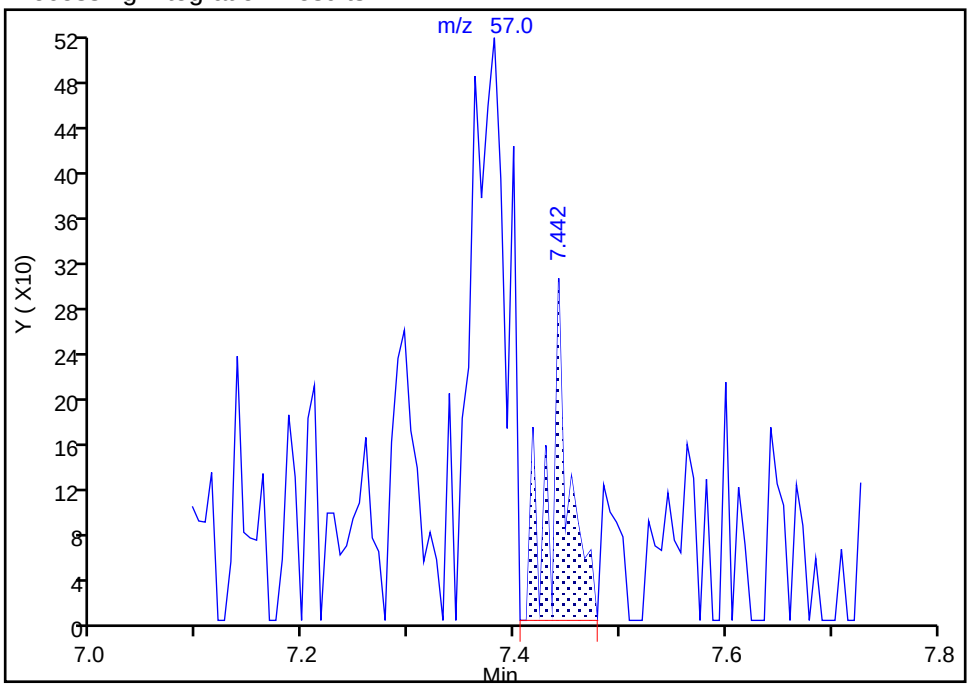
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

76 Epichlorohydrin, CAS: 106-89-8

Signal: 1

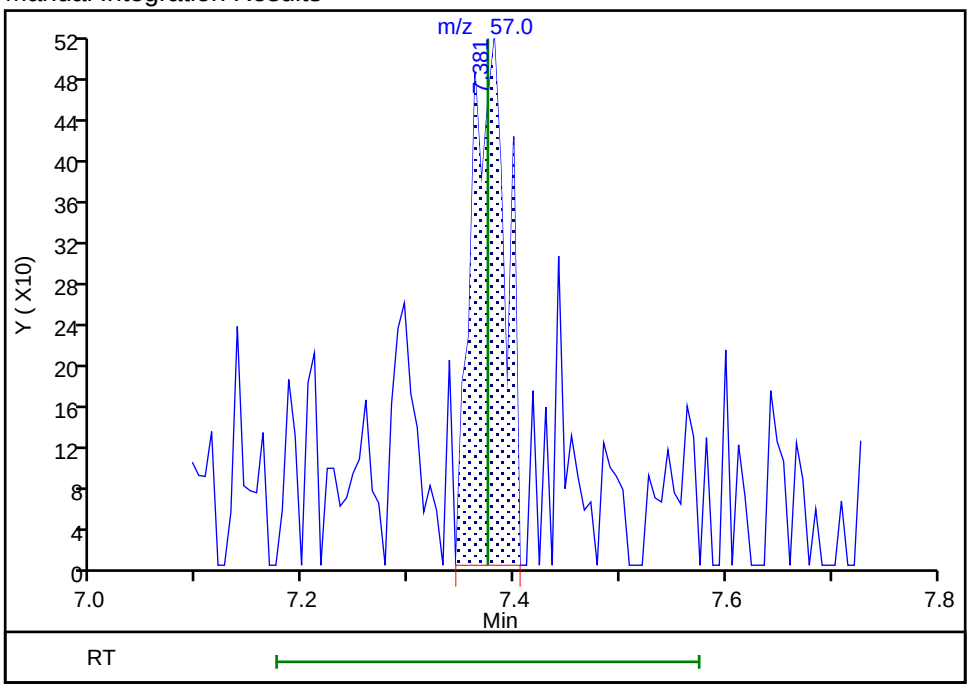
Processing Integration Results

RT: 7.44
Area: 377
Amount: 1.911365
Amount Units: ug/l



Manual Integration Results

RT: 7.38
Area: 1172
Amount: 5.738147
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:00:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

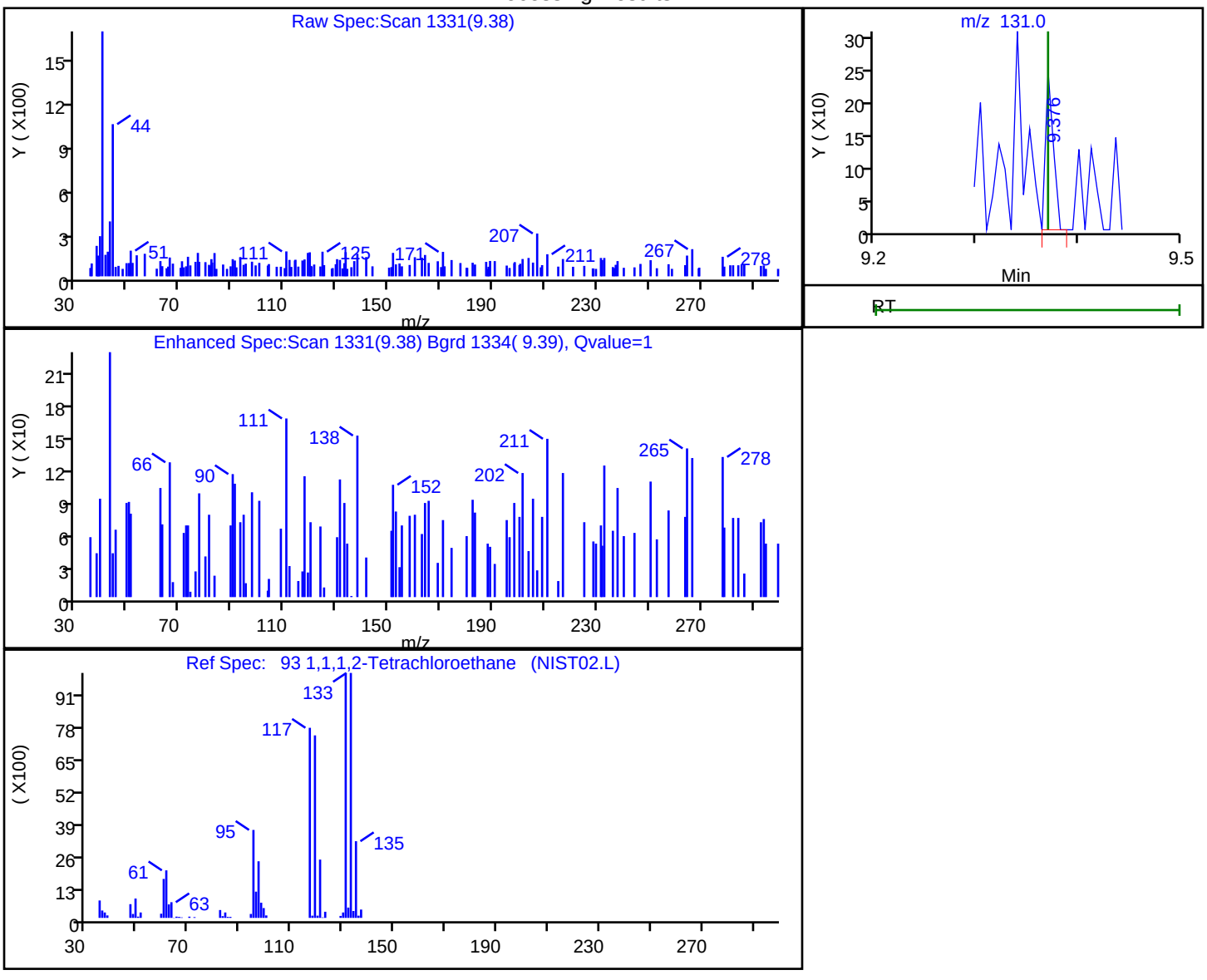
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

93 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Processing Results



RT	Mass	Response	Amount
9.38	131.00	128	0.045459

Reviewer: delpolitov, 05-Jun-2018 13:01:16

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

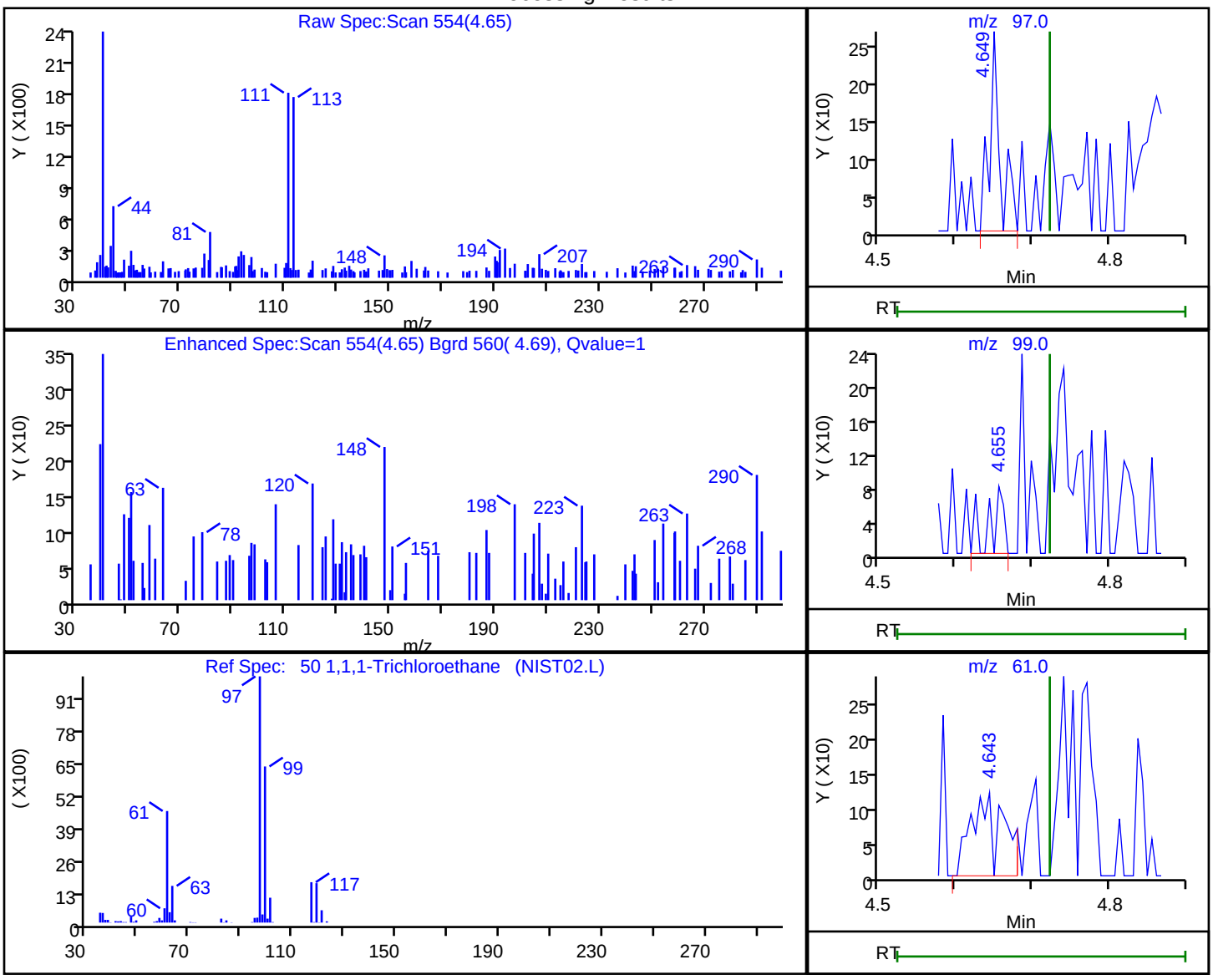
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

50 1,1,1-Trichloroethane, CAS: 71-55-6

Processing Results



RT	Mass	Response	Amount
4.65	97.00	260	0.054261
4.66	99.00	99	
4.64	61.00	345	

Reviewer: delpolitov, 05-Jun-2018 13:01:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

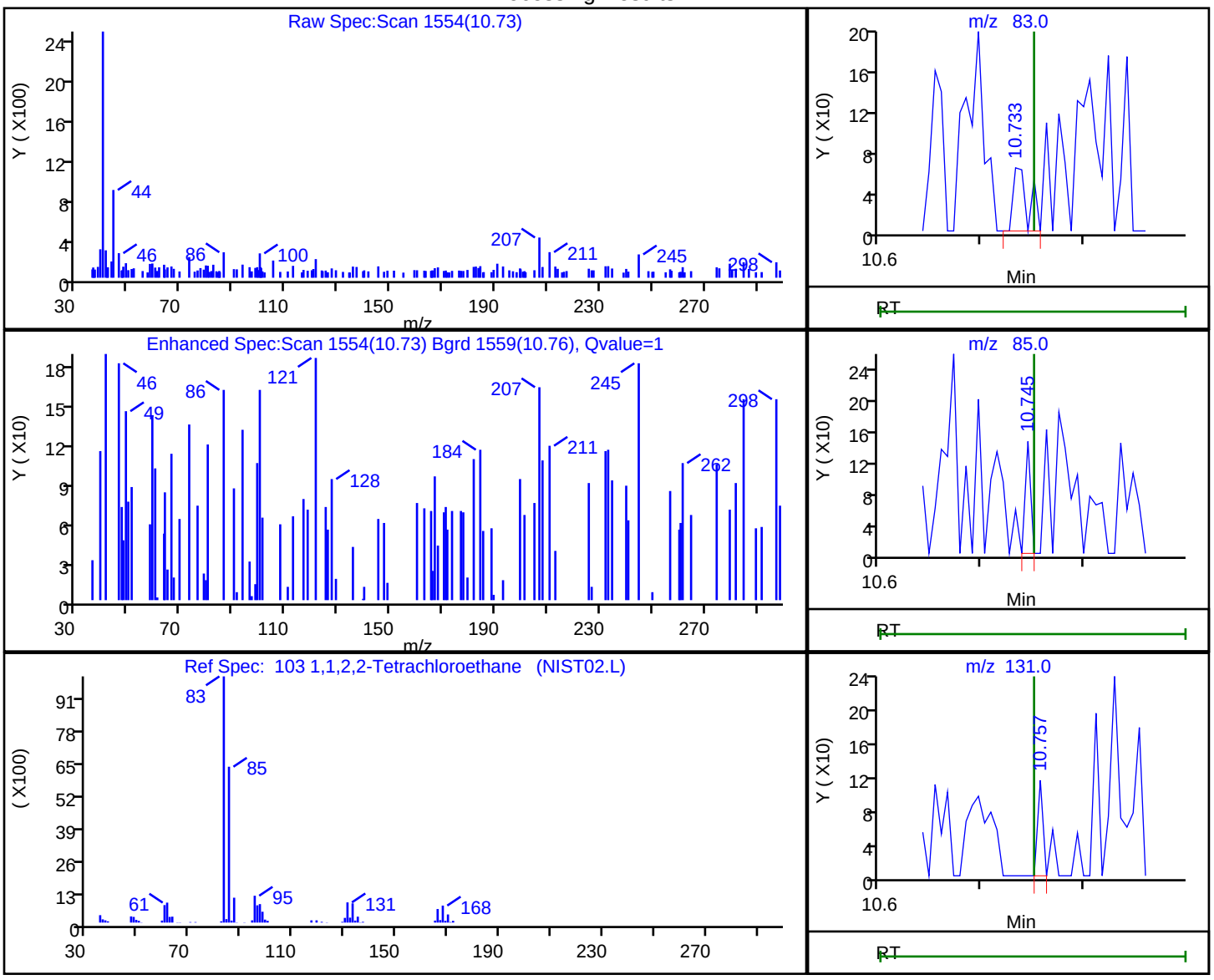
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

103 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
10.73	83.00	64	0.023064
10.75	85.00	51	
10.76	131.00	42	

Reviewer: delpolitov, 05-Jun-2018 13:01:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

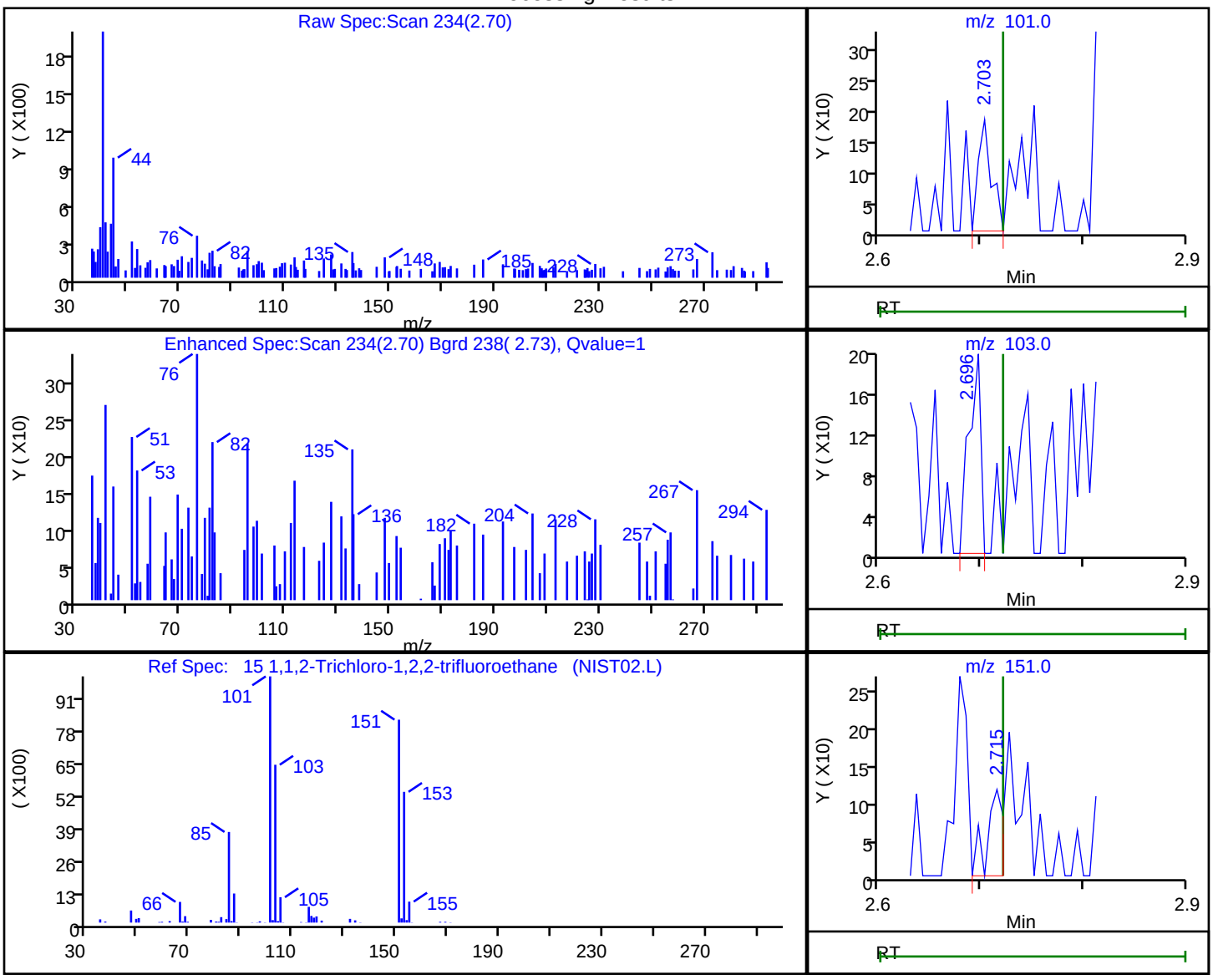
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
2.70	101.00	164	0.051737
2.70	103.00	157	
2.71	151.00	128	
2.70	85.00	167	

Reviewer: delpolitov, 05-Jun-2018 13:00:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

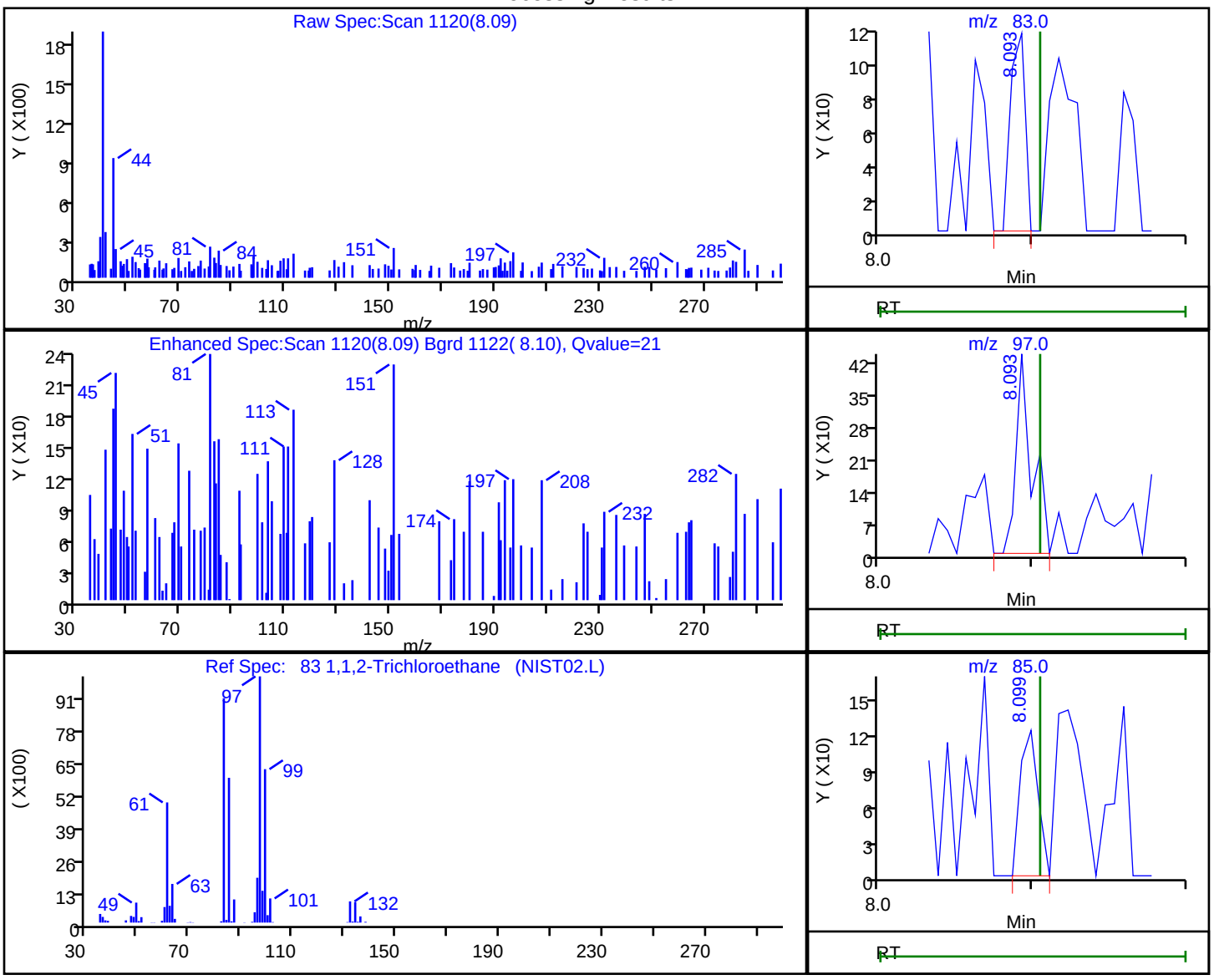
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
8.09	83.00	74	0.039162
8.09	97.00	315	
8.10	85.00	99	

Reviewer: delpolitov, 05-Jun-2018 13:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

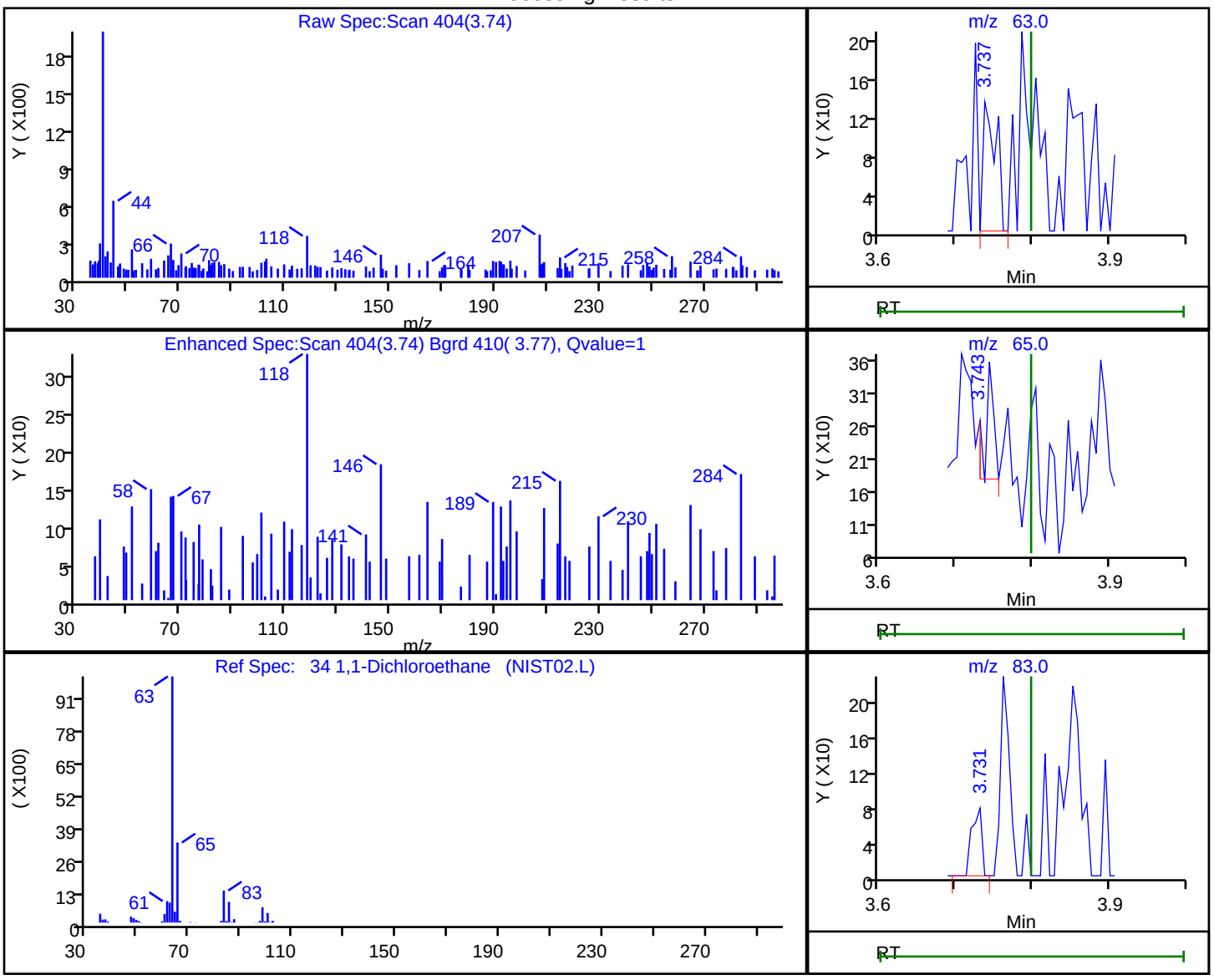
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
3.74	63.00	158	0.032416
3.74	65.00	130	
3.73	83.00	70	

Reviewer: delpolitov, 05-Jun-2018 13:00:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

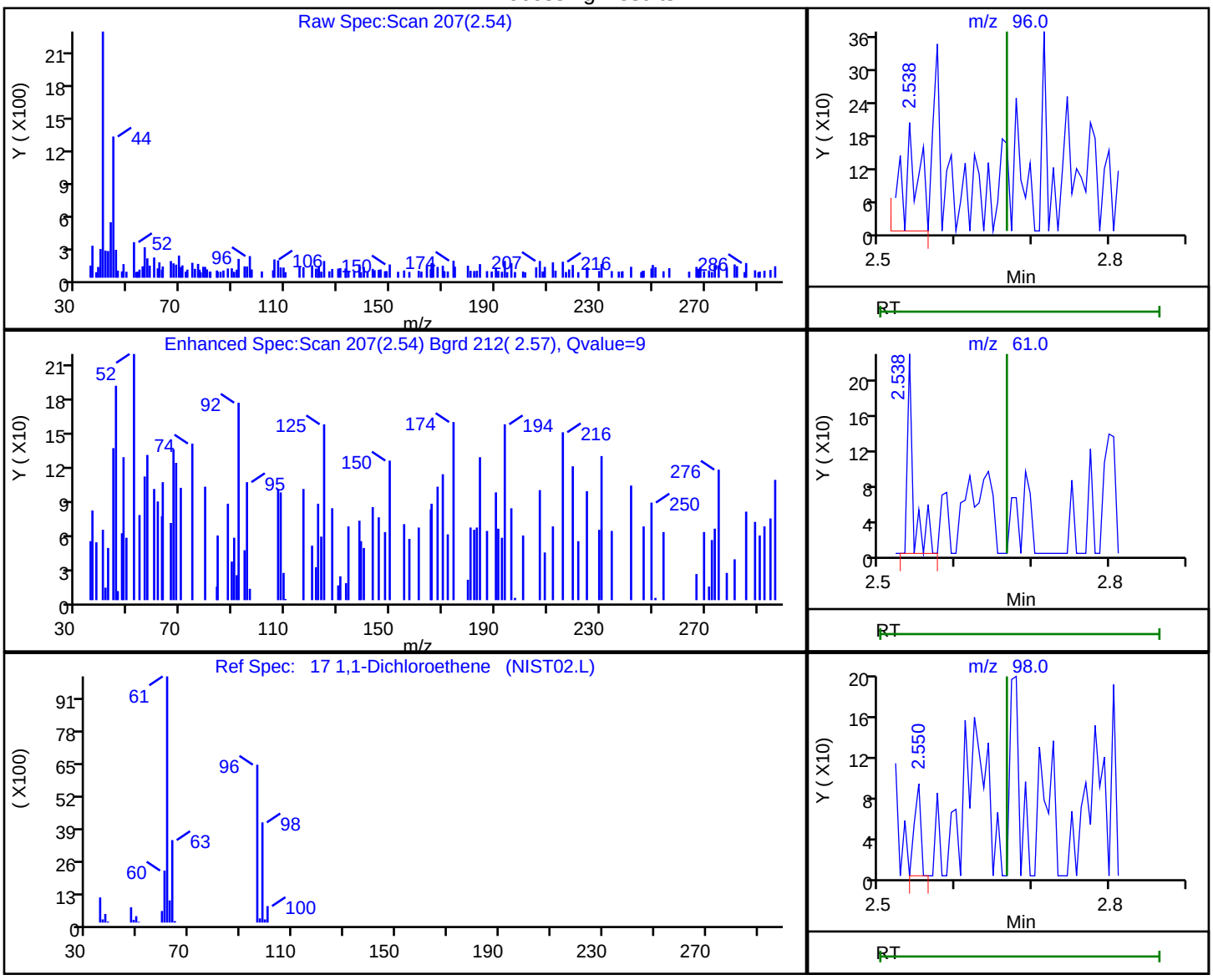
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

17 1,1-Dichloroethene, CAS: 75-35-4

Processing Results



RT	Mass	Response	Amount
2.54	96.00	260	0.087862
2.54	61.00	122	
2.55	98.00	51	
2.55	63.00	230	

Reviewer: delpolitov, 05-Jun-2018 13:00:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

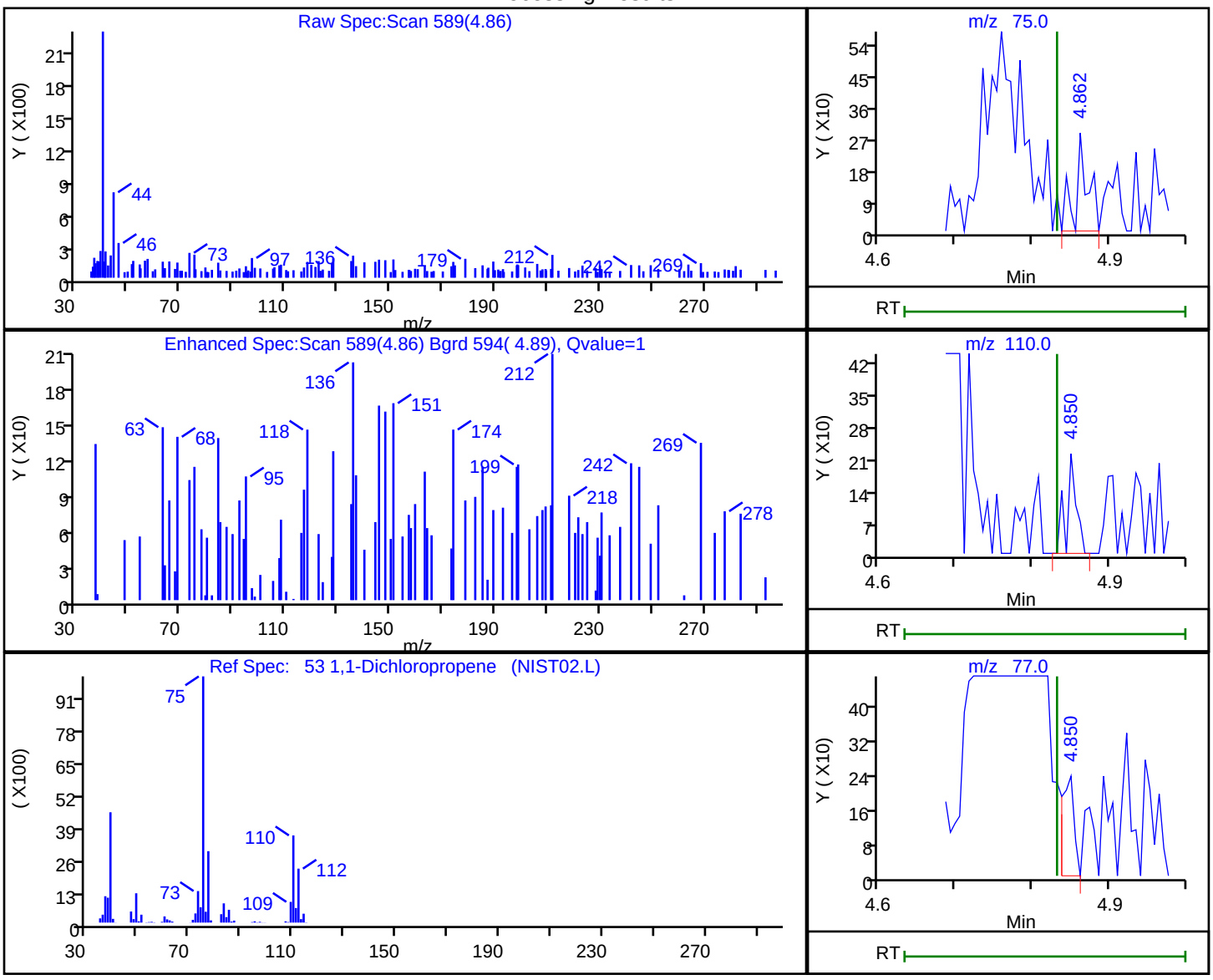
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

53 1,1-Dichloropropene, CAS: 563-58-6

Processing Results



RT	Mass	Response	Amount
4.86	75.00	322	0.083888
4.85	110.00	194	
4.85	77.00	257	

Reviewer: delpolitov, 05-Jun-2018 13:01:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

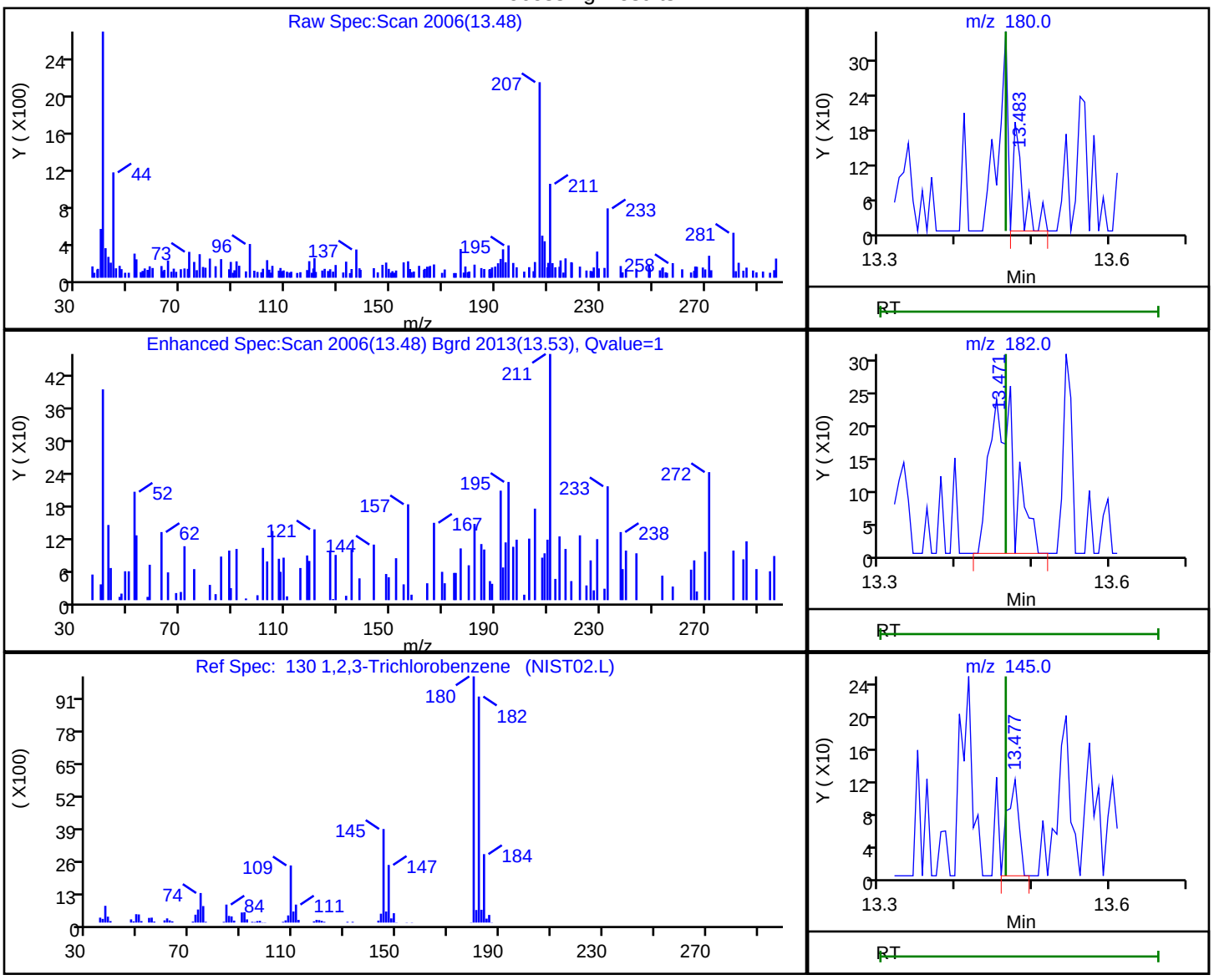
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

130 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.48	180.00	160	0.032468
13.47	182.00	554	
13.48	145.00	125	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

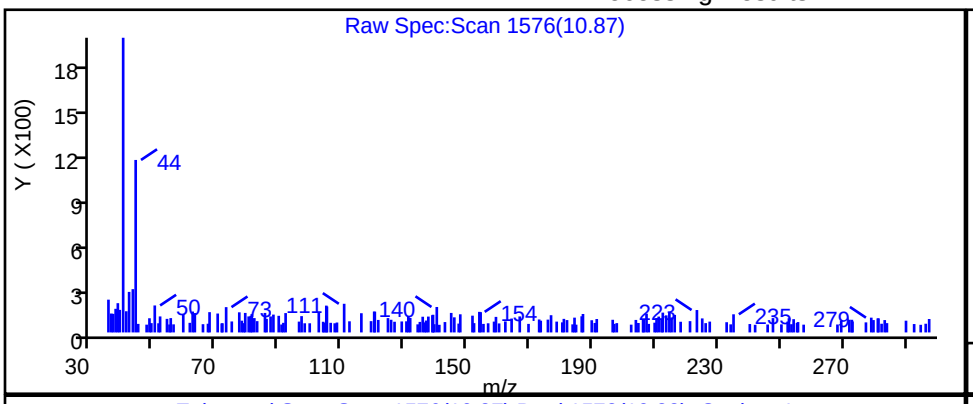
User Disabled Compound Report

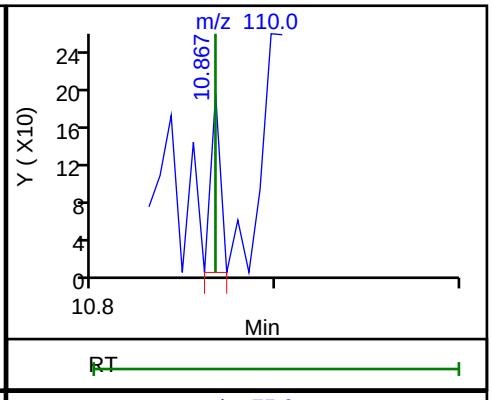
TestAmerica Edison

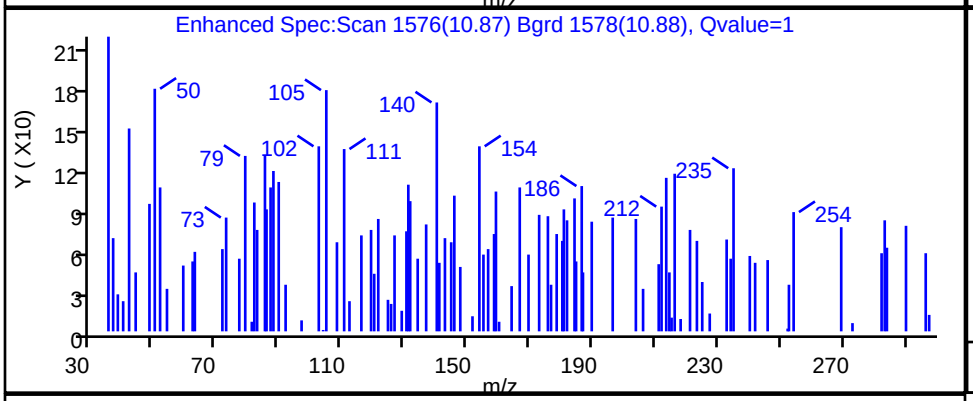
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

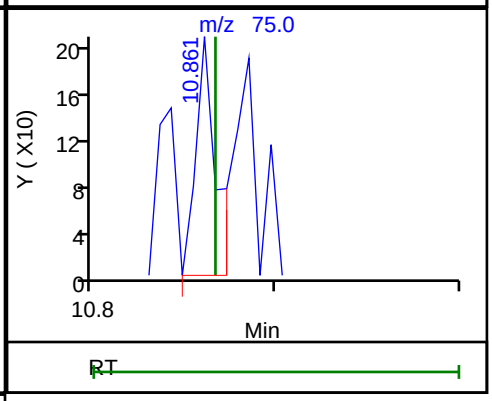
105 1,2,3-Trichloropropane, CAS: 96-18-4

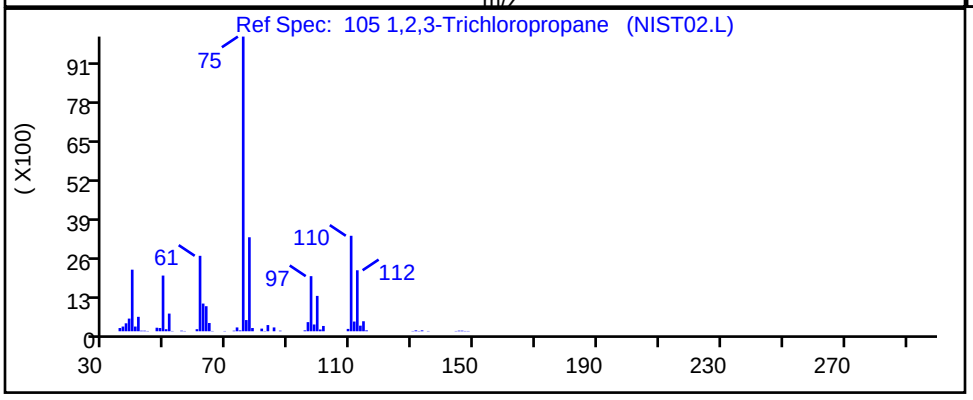
Processing Results











RT	Mass	Response	Amount
10.87	110.00	69	0.071547
10.86	75.00	154	

Reviewer: delpolitov, 05-Jun-2018 13:01:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

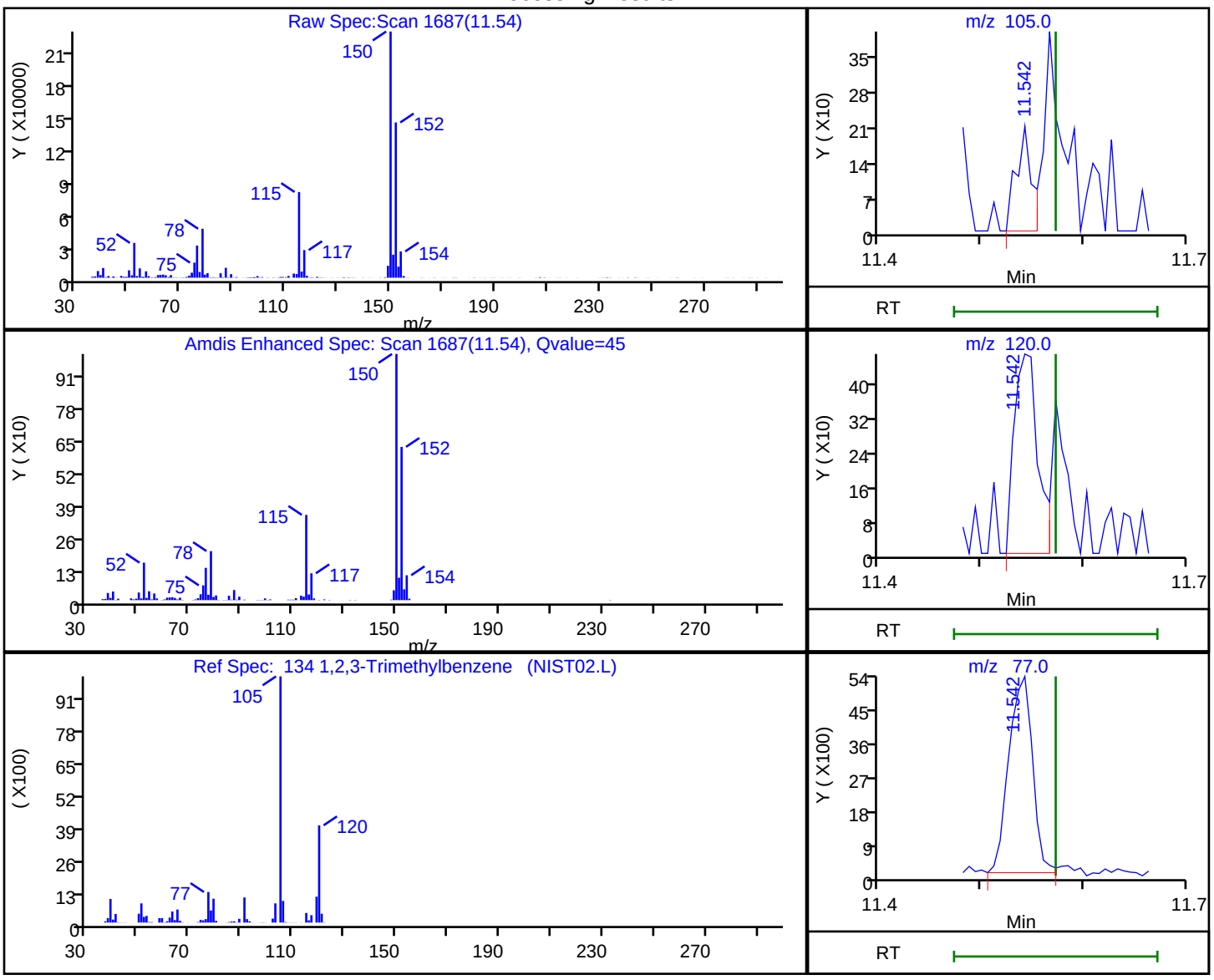
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

134 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
11.54	105.00	224	0.016922
11.54	120.00	750	
11.54	77.00	8520	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

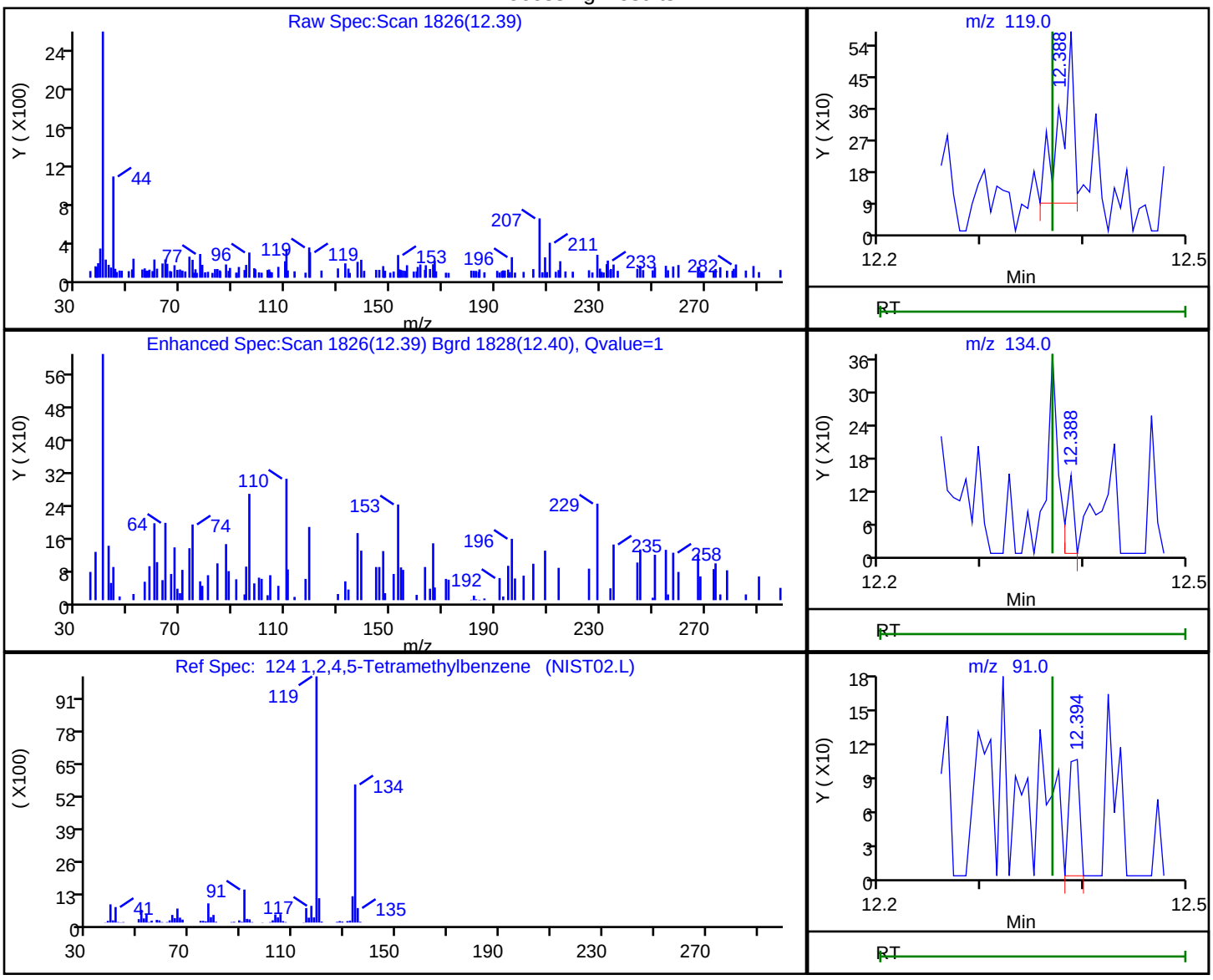
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

124 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
12.39	119.00	442	0.035513
12.39	134.00	72	
12.39	91.00	76	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

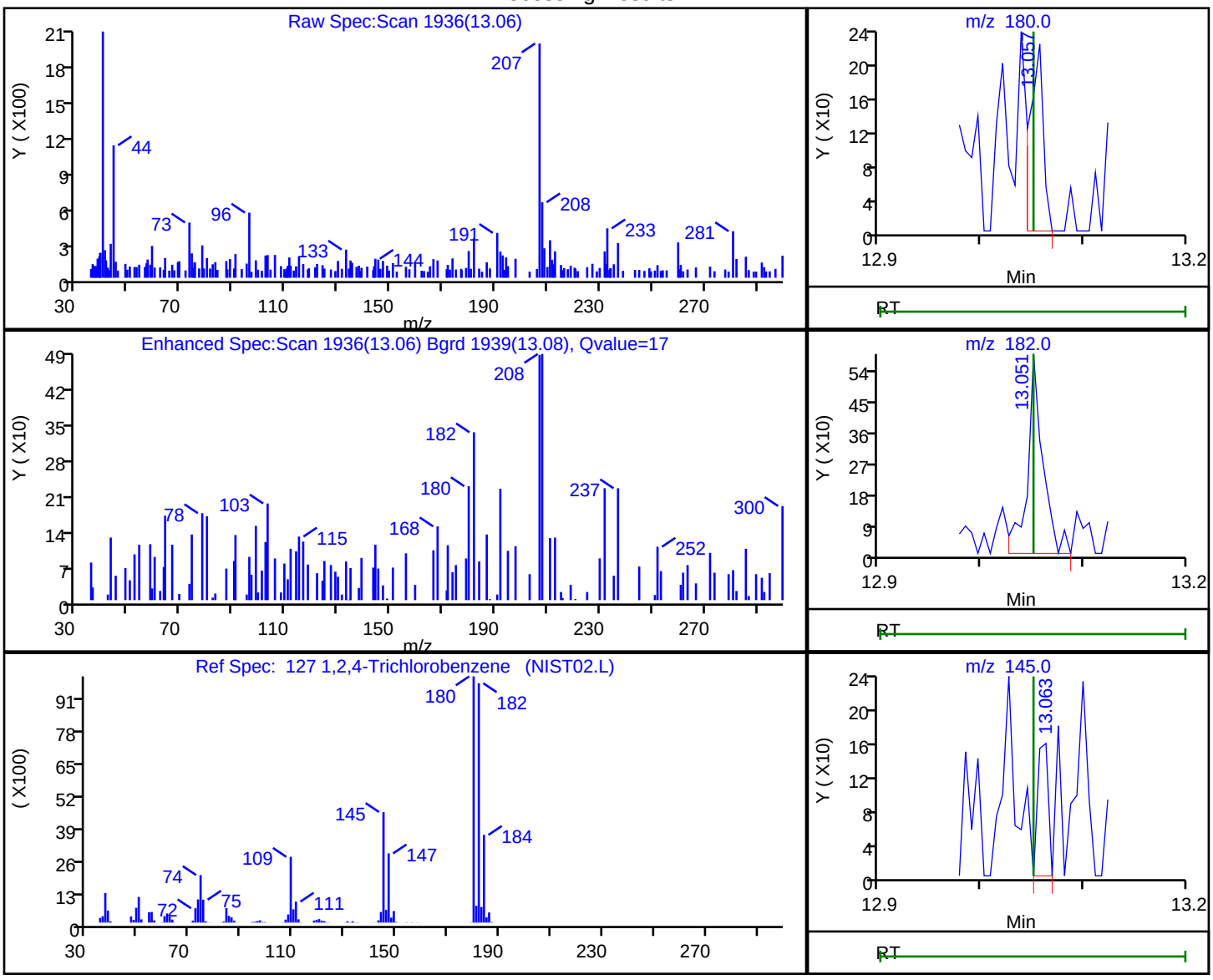
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

127 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.06	180.00	205	0.038663
13.05	182.00	610	
13.06	145.00	113	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

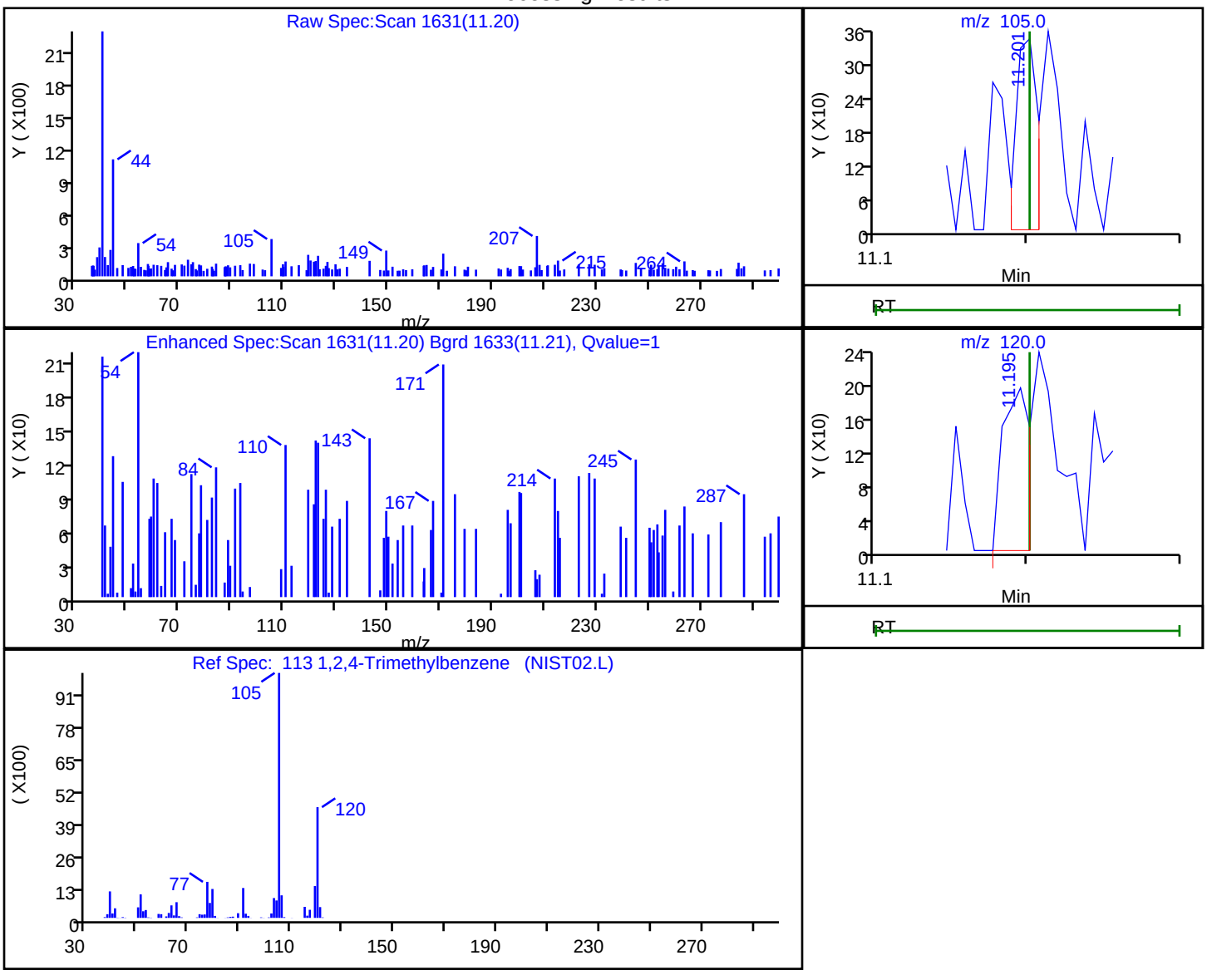
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

113 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
11.20	105.00	342	0.027766
11.20	120.00	237	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

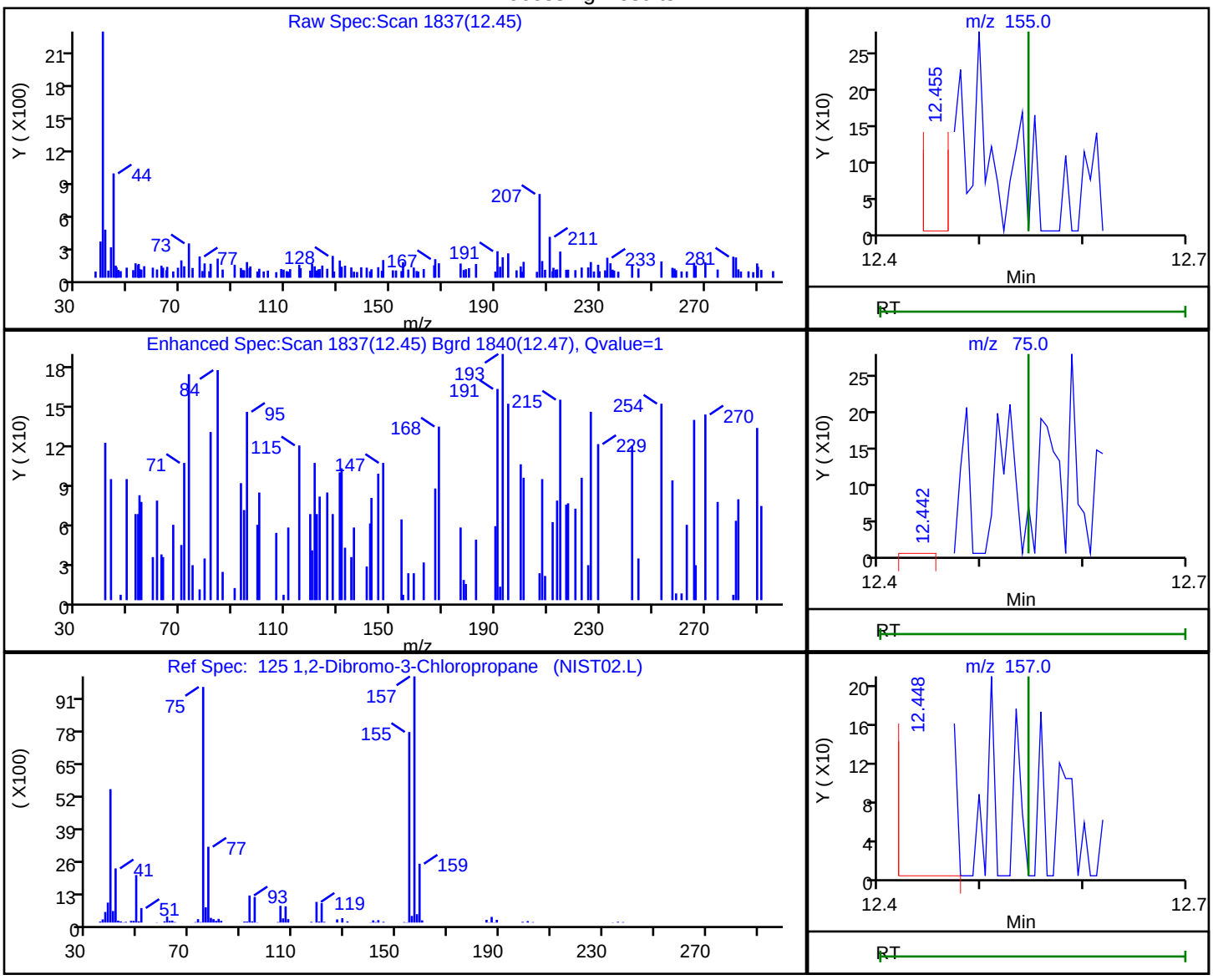
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
12.45	155.00	51	0.123089
12.44	75.00	225	
12.45	157.00	299	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

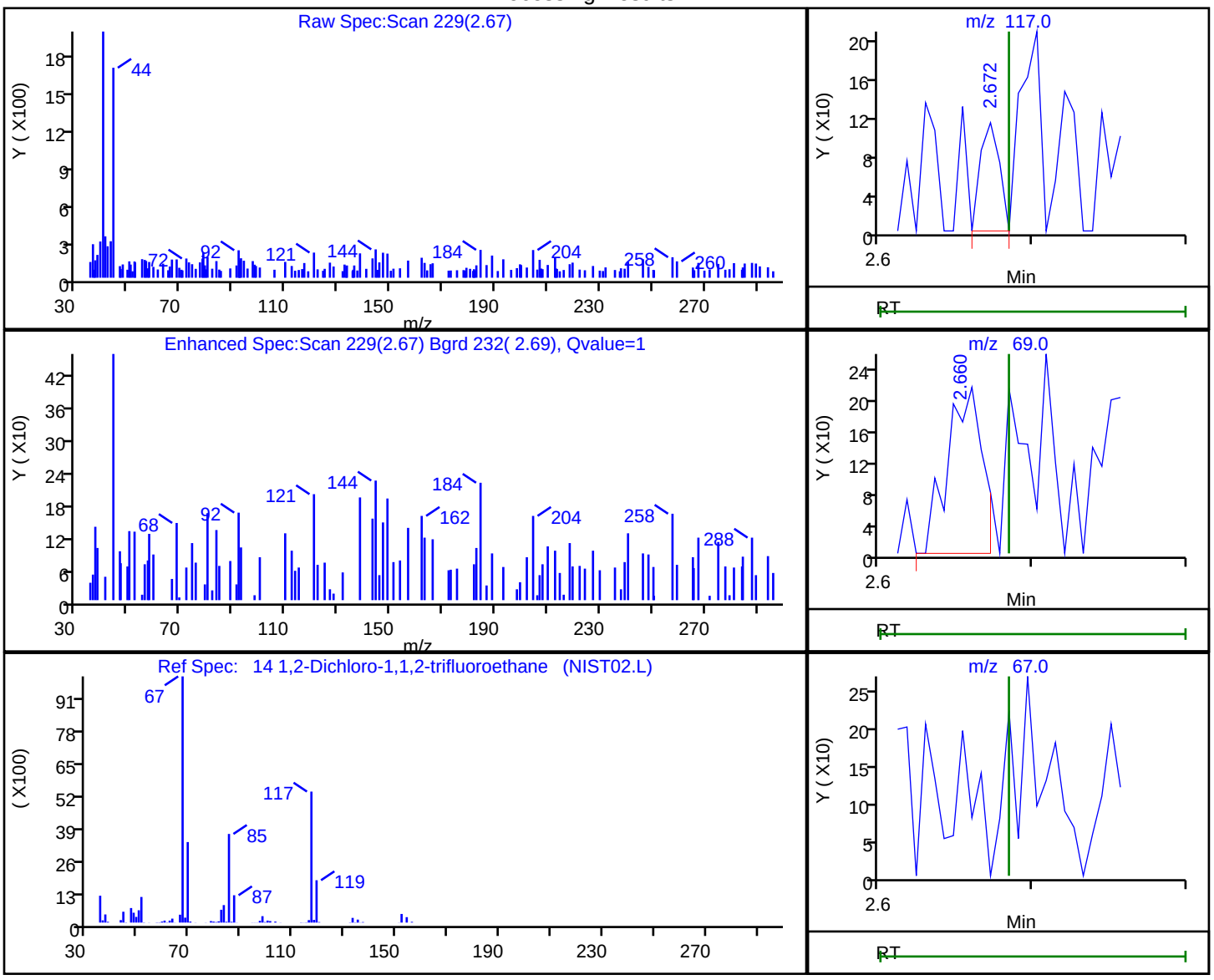
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Processing Results



RT	Mass	Response	Amount
2.67	117.00	99	0.030414
2.66	69.00	337	
2.68	119.00	300	
2.68	67.00	0	

Reviewer: delpolitov, 05-Jun-2018 13:00:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

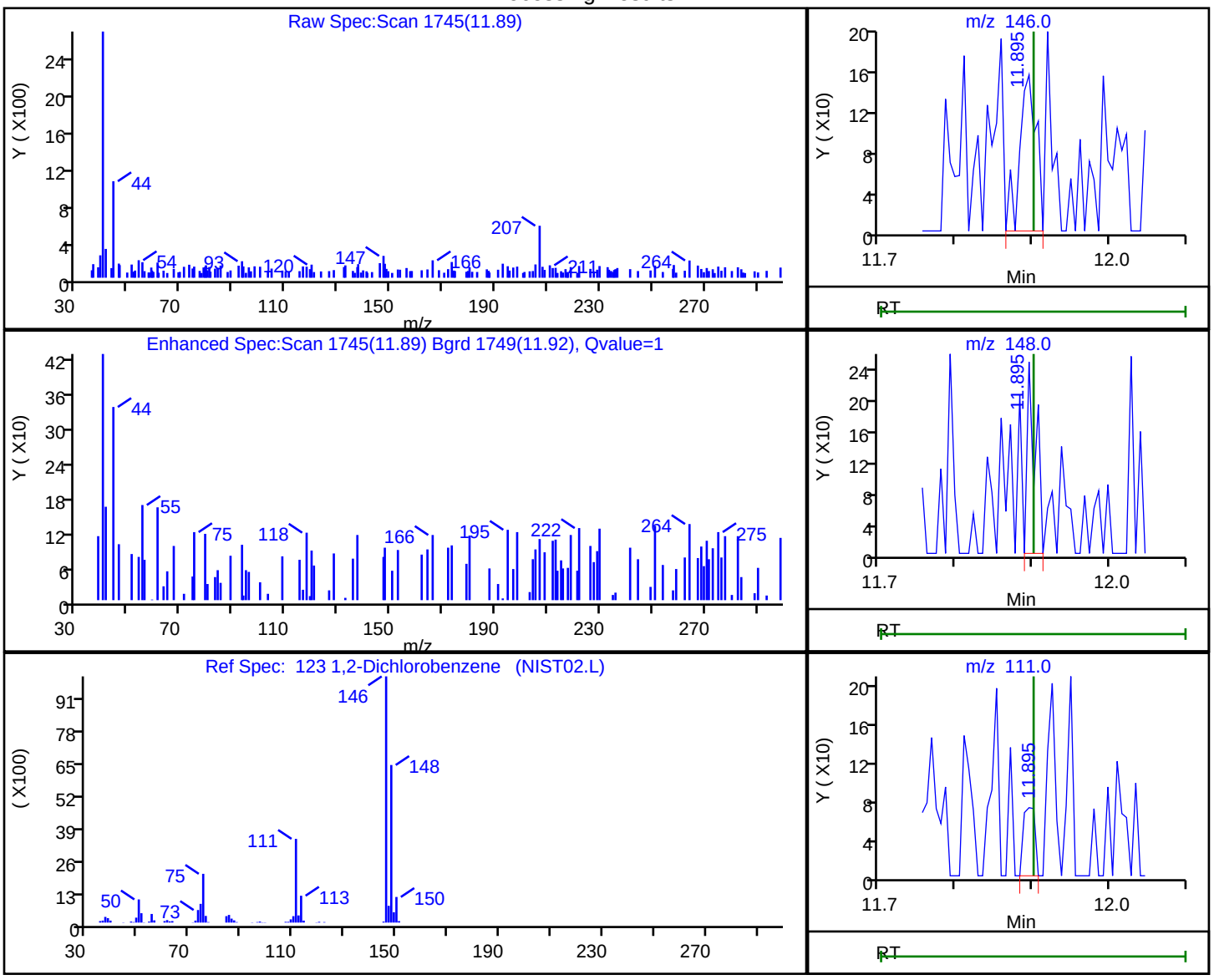
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
11.89	146.00	234	0.032562
11.89	148.00	187	
11.89	111.00	73	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

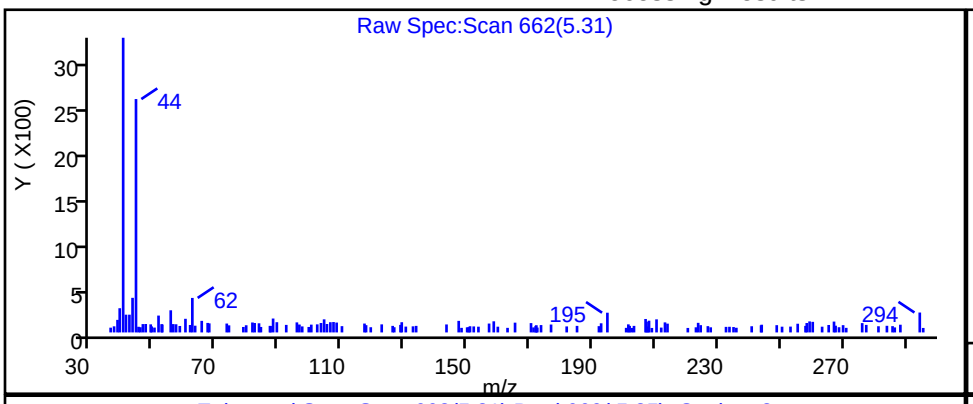
User Disabled Compound Report

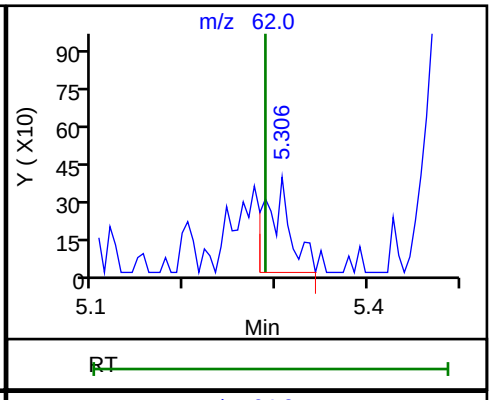
TestAmerica Edison

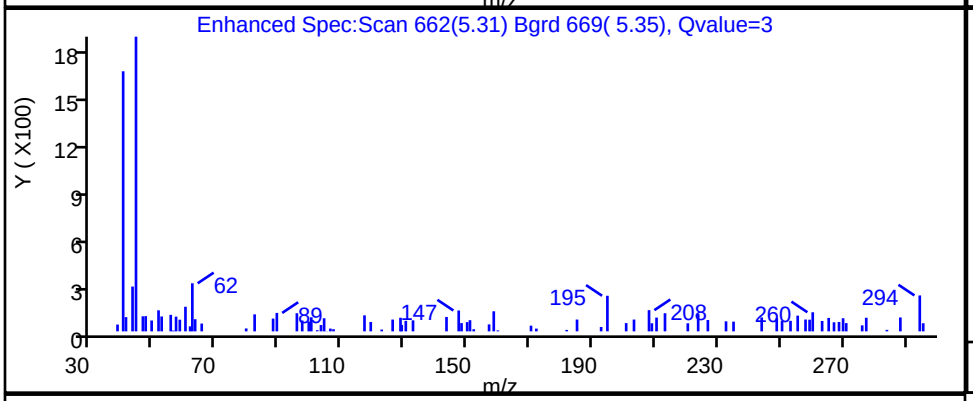
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

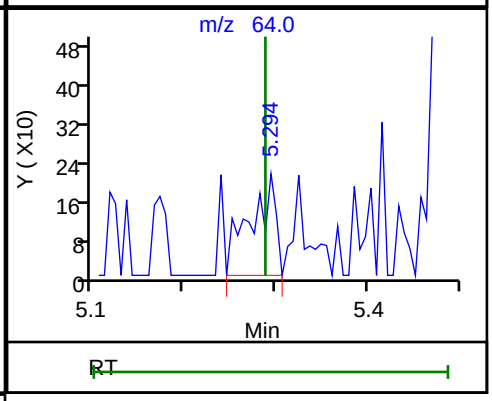
60 1,2-Dichloroethane, CAS: 107-06-2

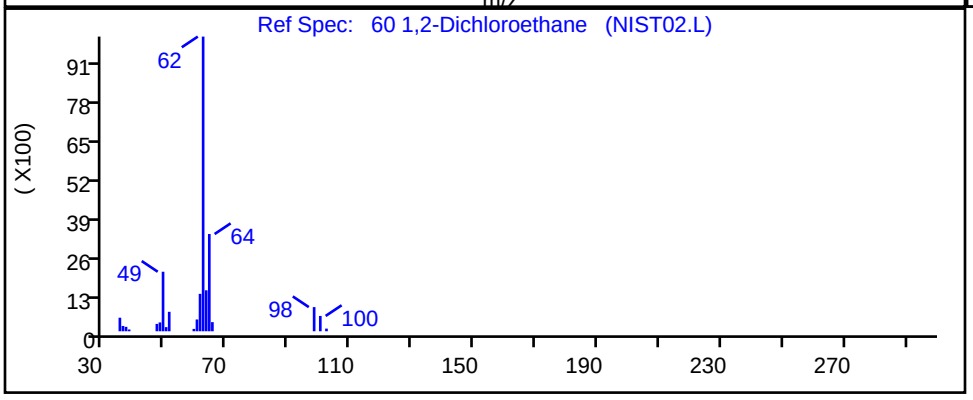
Processing Results











RT	Mass	Response	Amount
5.31	62.00	694	0.206253
5.29	64.00	406	

Reviewer: delpolitov, 05-Jun-2018 13:01:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

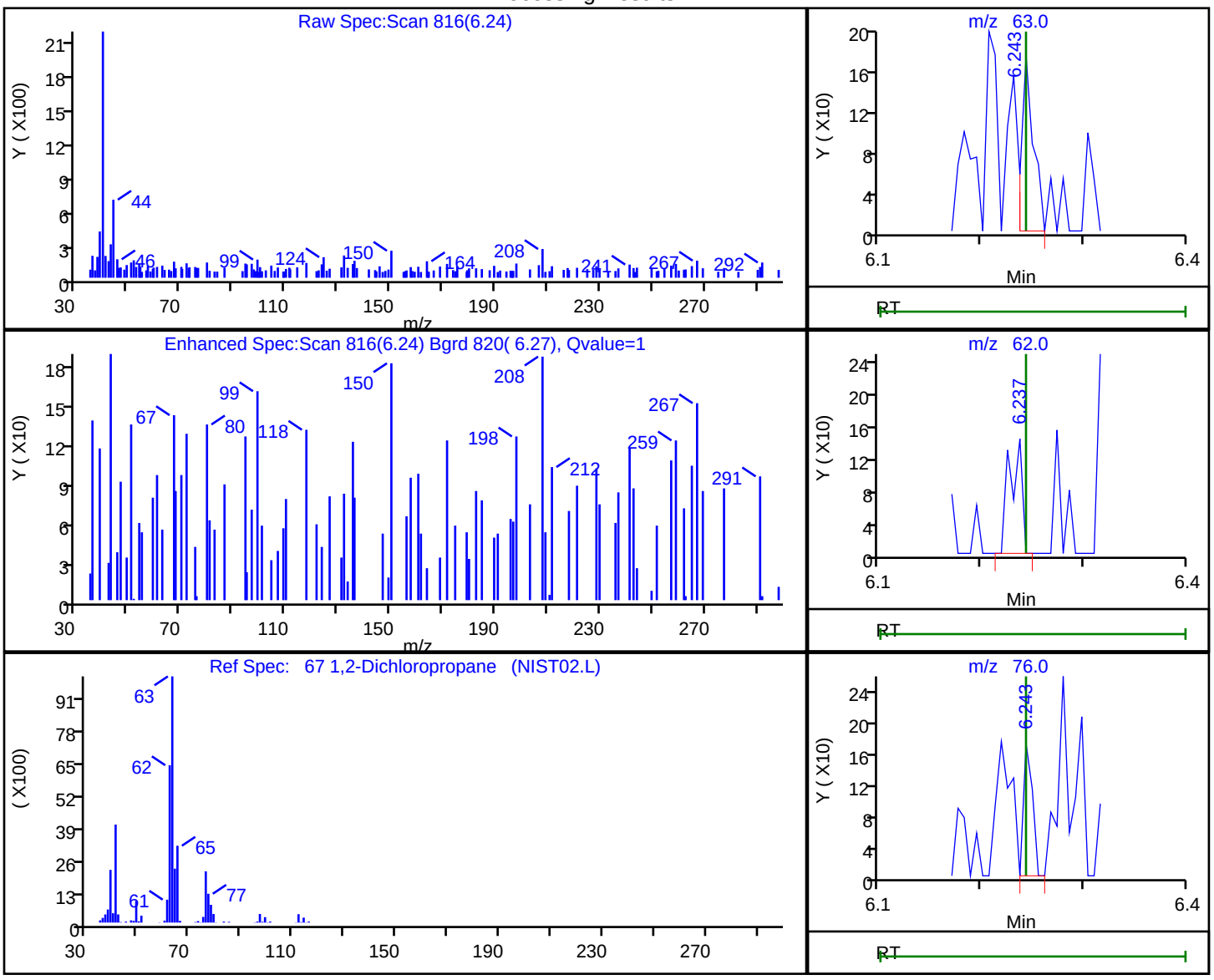
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

67 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
6.24	63.00	139	0.052126
6.24	62.00	124	
6.24	76.00	103	
6.24	112.00	0	

Reviewer: delpolitov, 05-Jun-2018 13:01:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

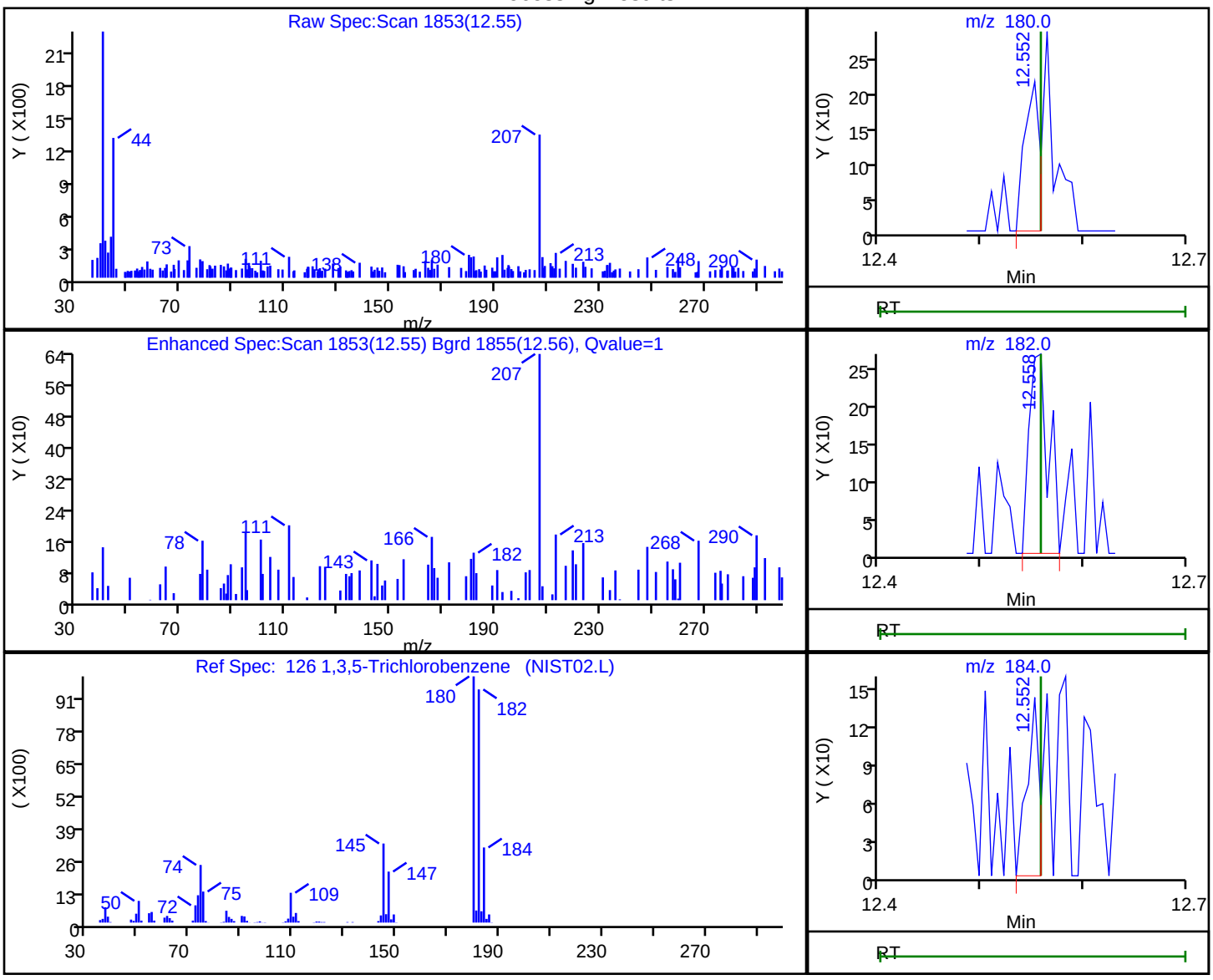
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

126 1,3,5-Trichlorobenzene, CAS: 108-70-3

Processing Results



RT	Mass	Response	Amount
12.55	180.00	220	0.038697
12.56	182.00	348	
12.55	184.00	115	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

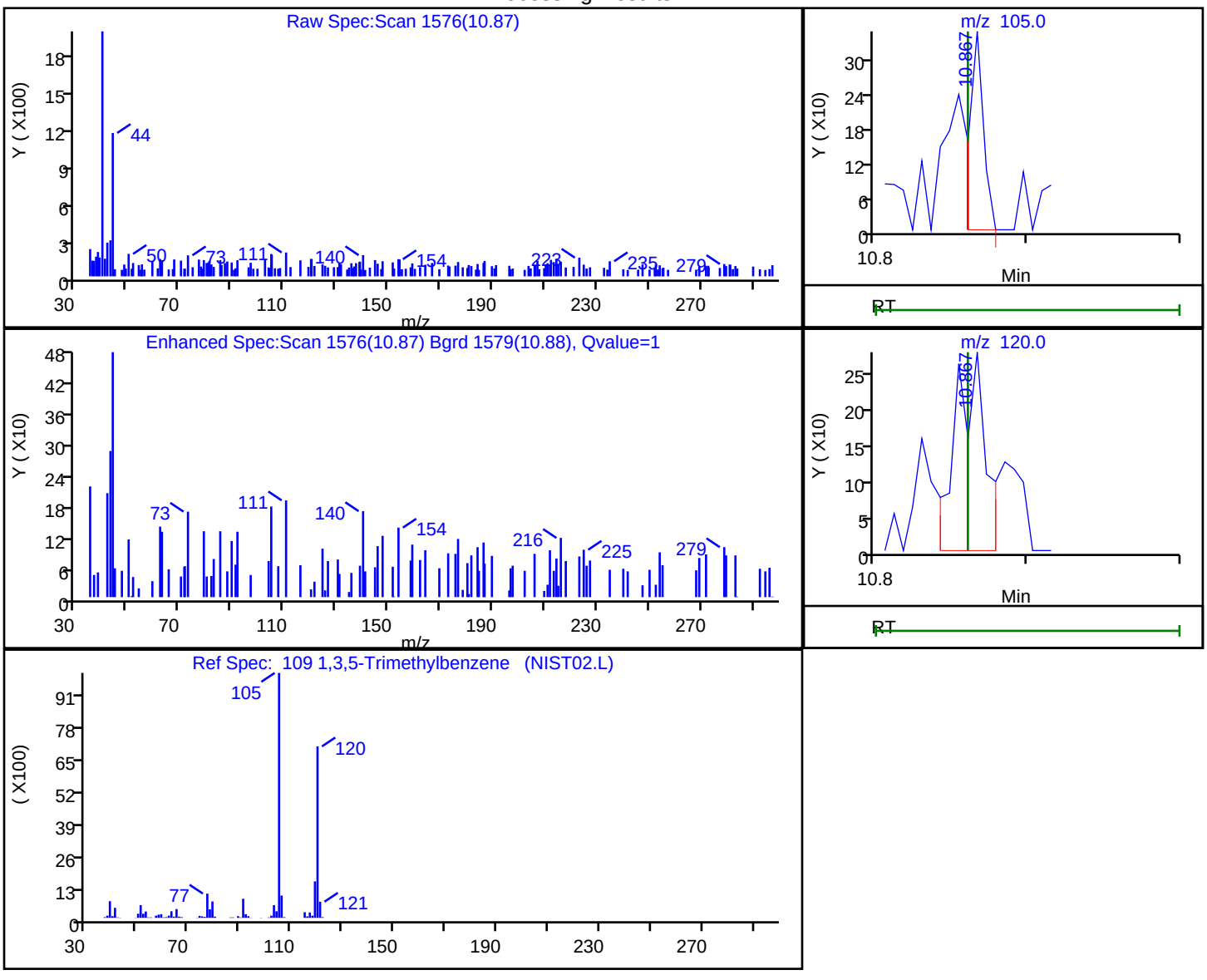
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

109 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.87	105.00	220	0.018801
10.87	120.00	378	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

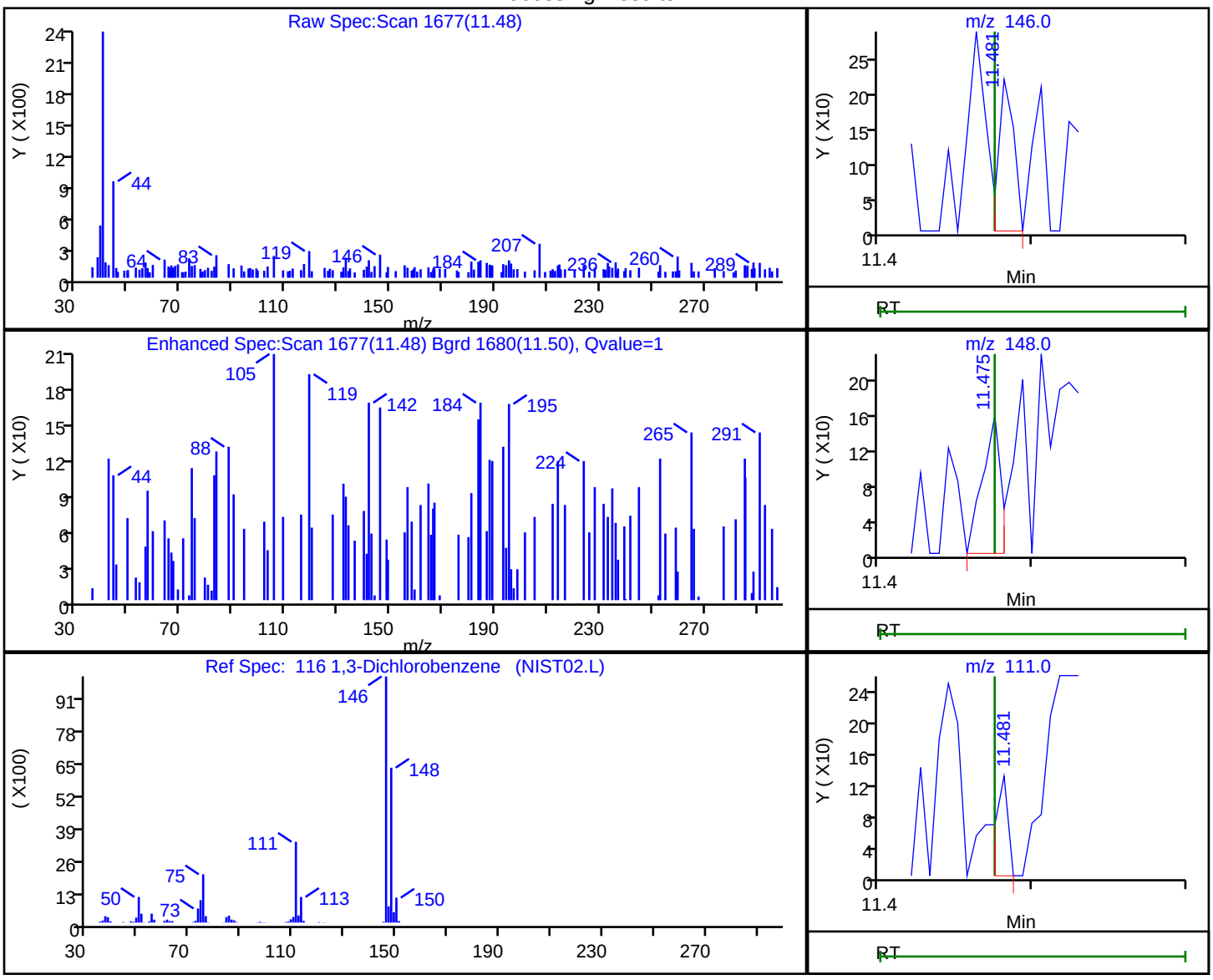
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

116 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
11.48	146.00	153	0.020977
11.48	148.00	132	
11.48	111.00	70	

Reviewer: delpolitov, 05-Jun-2018 13:01:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

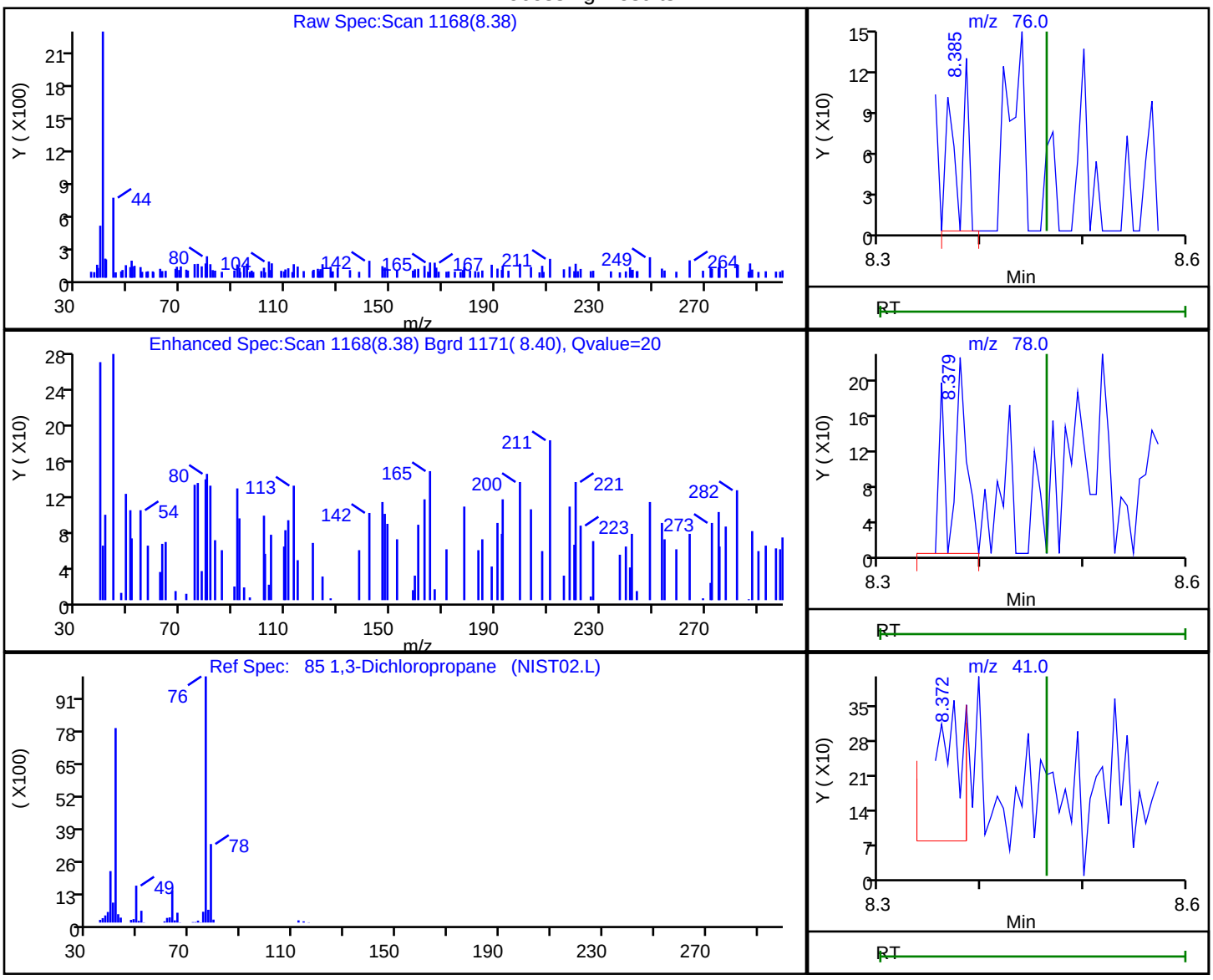
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 1,3-Dichloropropane, CAS: 142-28-9

Processing Results



RT	Mass	Response	Amount
8.38	76.00	107	0.025851
8.38	78.00	313	
8.37	41.00	449	

Reviewer: delpolitov, 05-Jun-2018 13:01:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

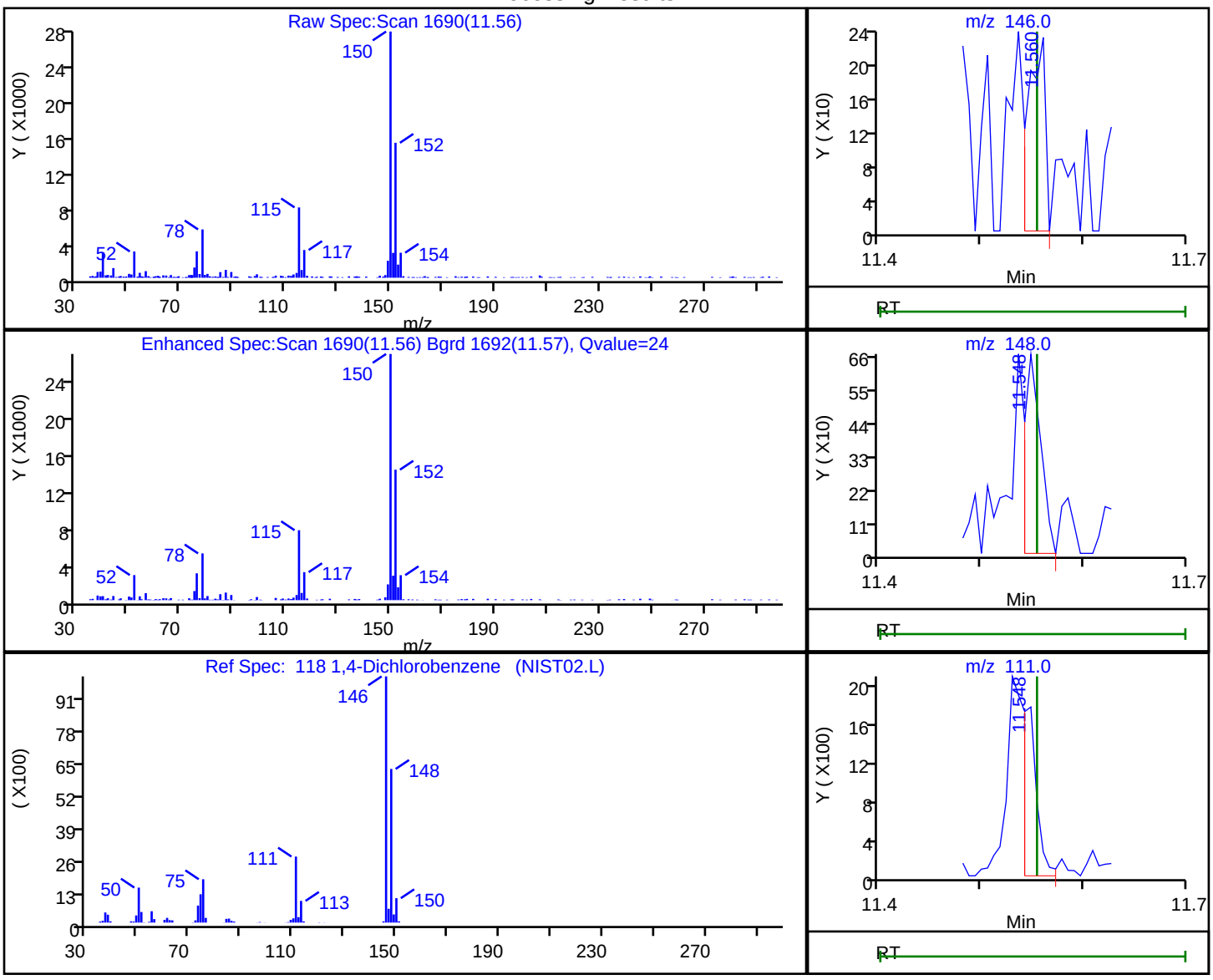
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
11.56	146.00	263	0.035987
11.55	148.00	724	
11.55	111.00	1631	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

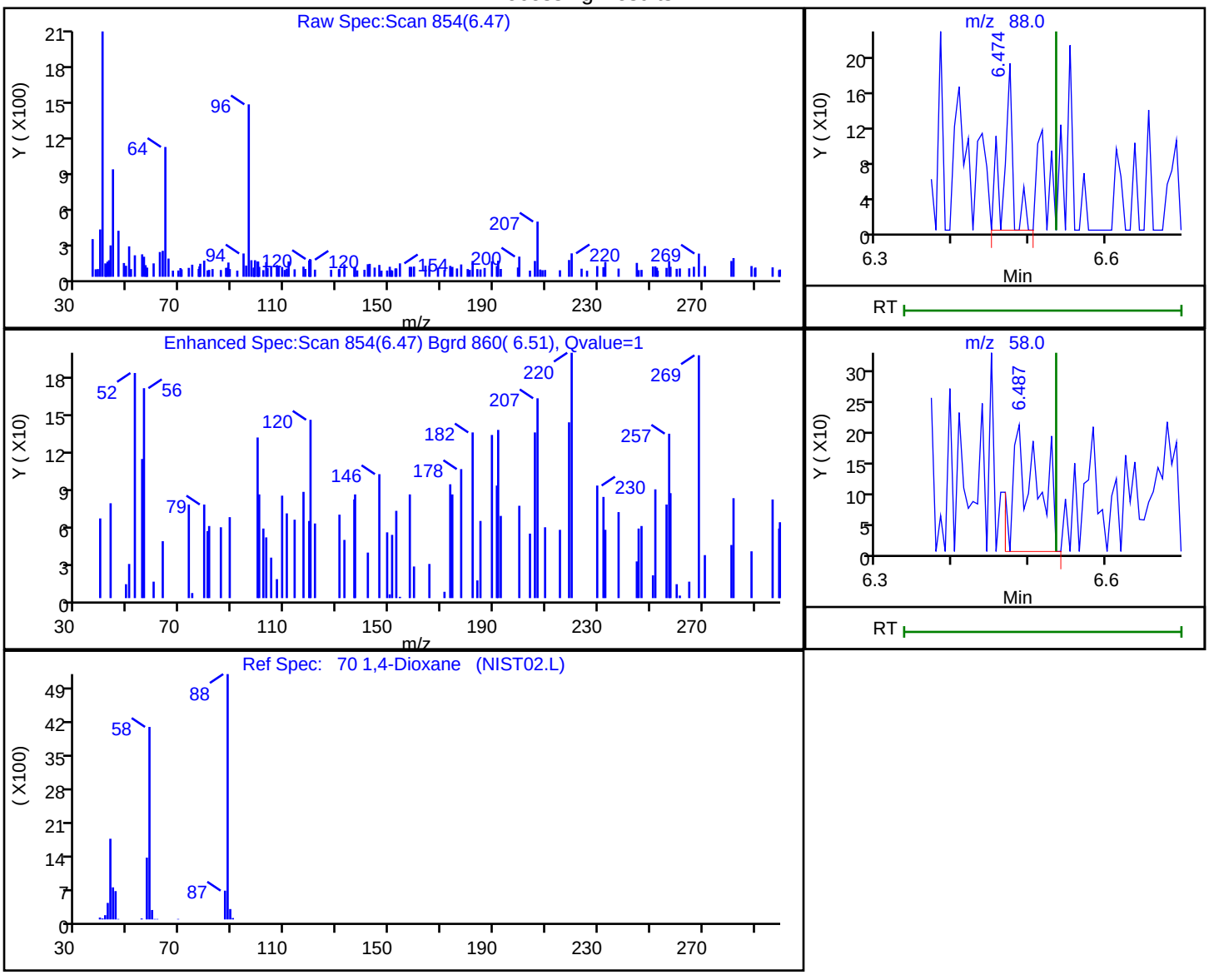
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

Processing Results



RT	Mass	Response	Amount
6.47	88.00	156	6.334389
6.49	58.00	453	

Reviewer: delpolitov, 05-Jun-2018 13:01:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

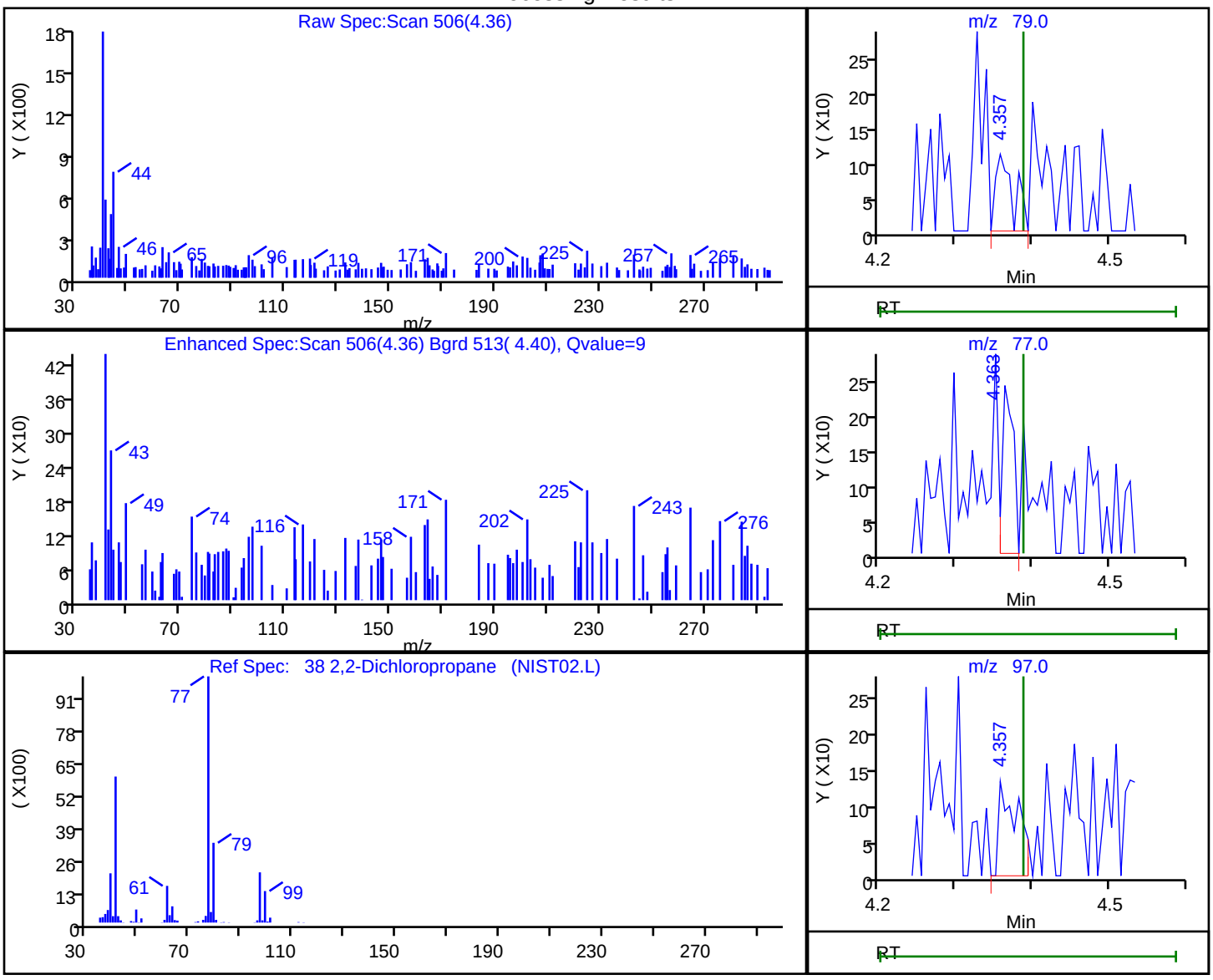
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

38 2,2-Dichloropropane, CAS: 594-20-7

Processing Results



RT	Mass	Response	Amount
4.36	79.00	178	0.123781
4.36	77.00	247	
4.36	97.00	223	

Reviewer: delpolitov, 05-Jun-2018 13:01:00

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

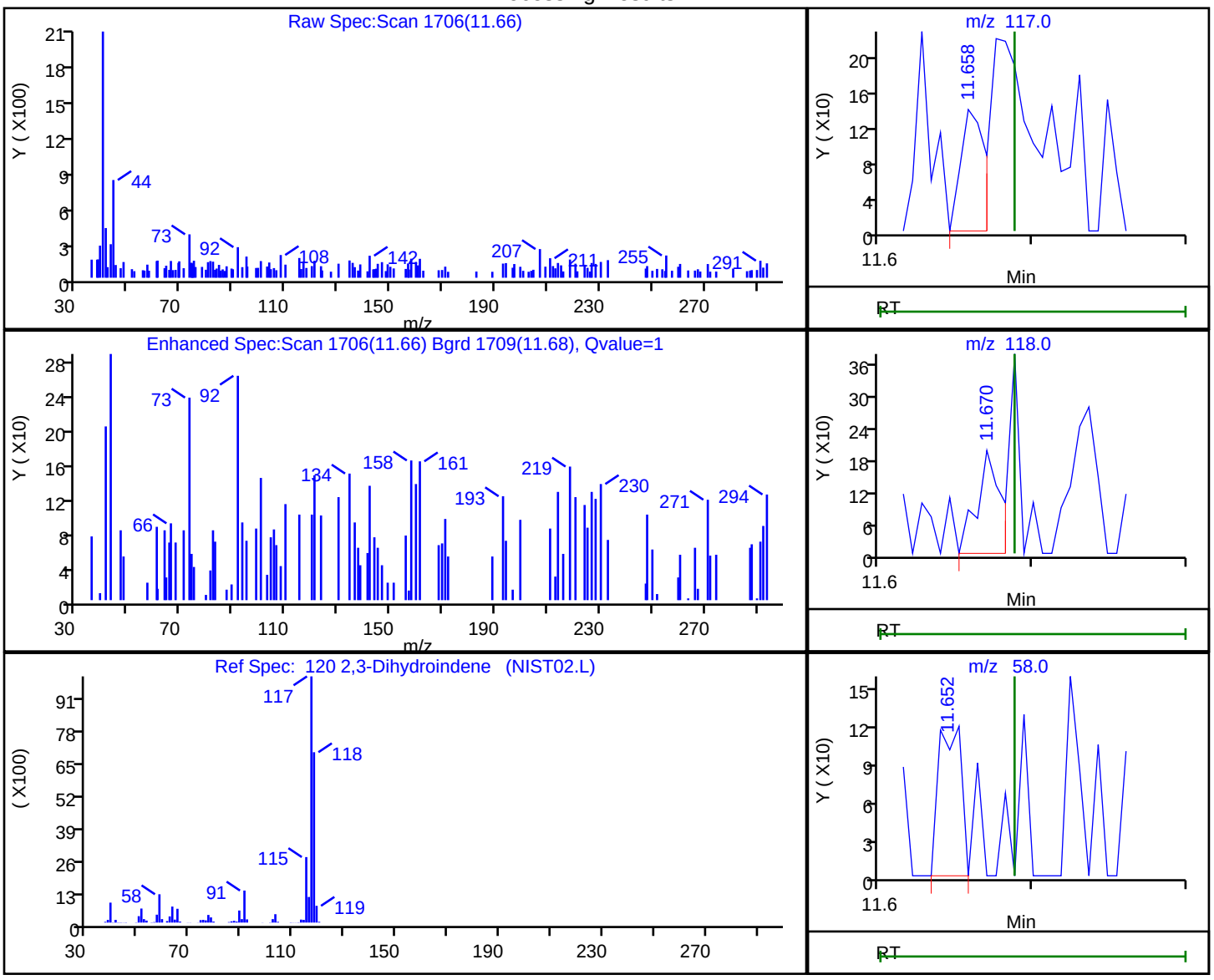
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
11.66	117.00	150	0.011322
11.67	118.00	206	
11.65	58.00	117	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

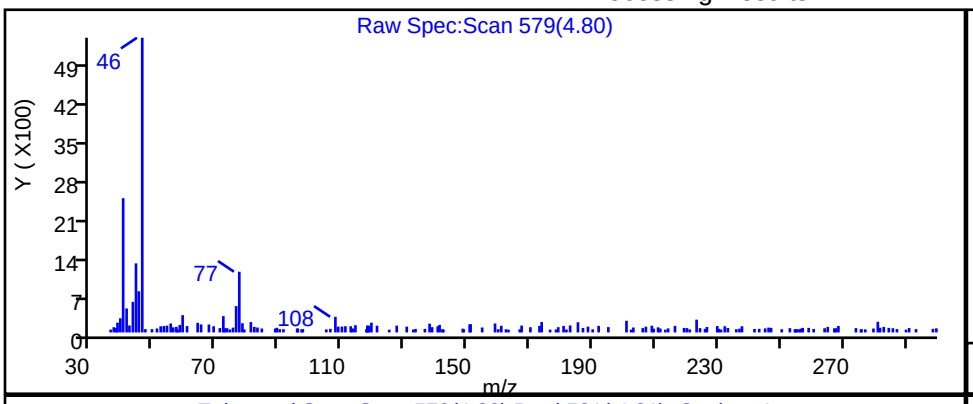
User Disabled Compound Report

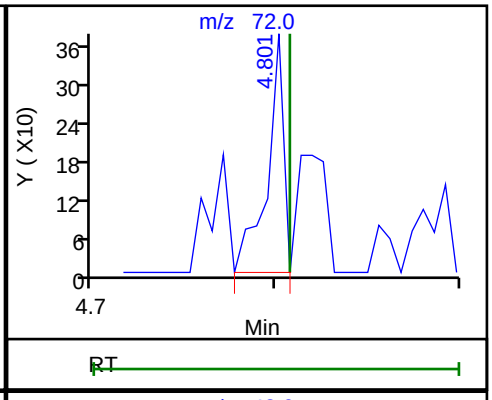
TestAmerica Edison

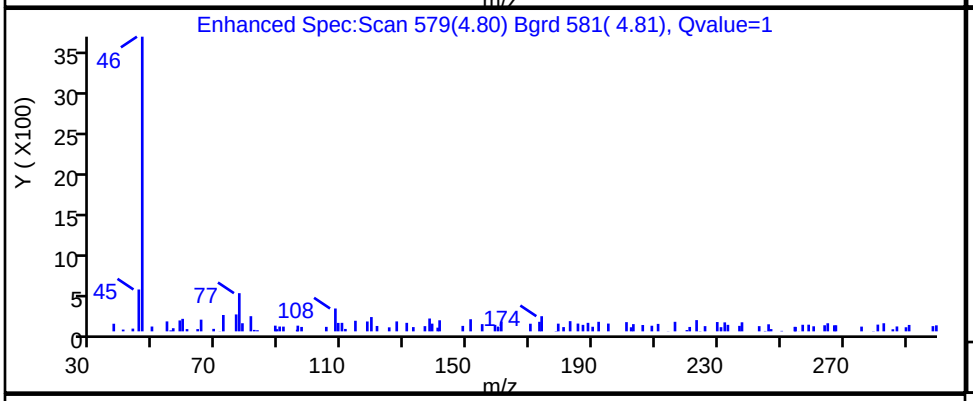
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

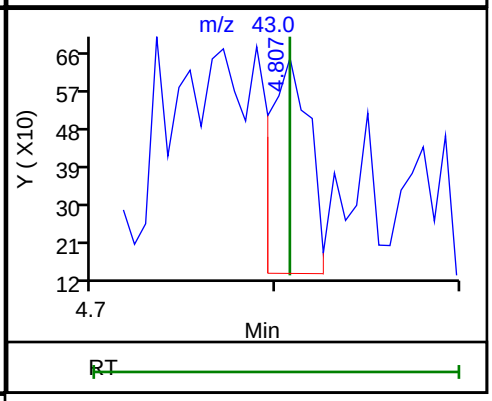
41 2-Butanone (MEK), CAS: 78-93-3

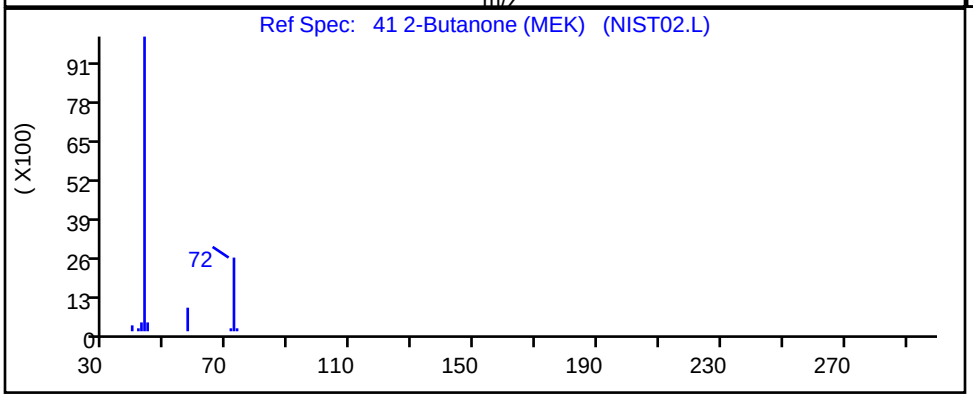
Processing Results











RT	Mass	Response	Amount
4.80	72.00	231	0.806311
4.81	43.00	774	

Reviewer: delpolitov, 05-Jun-2018 13:01:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

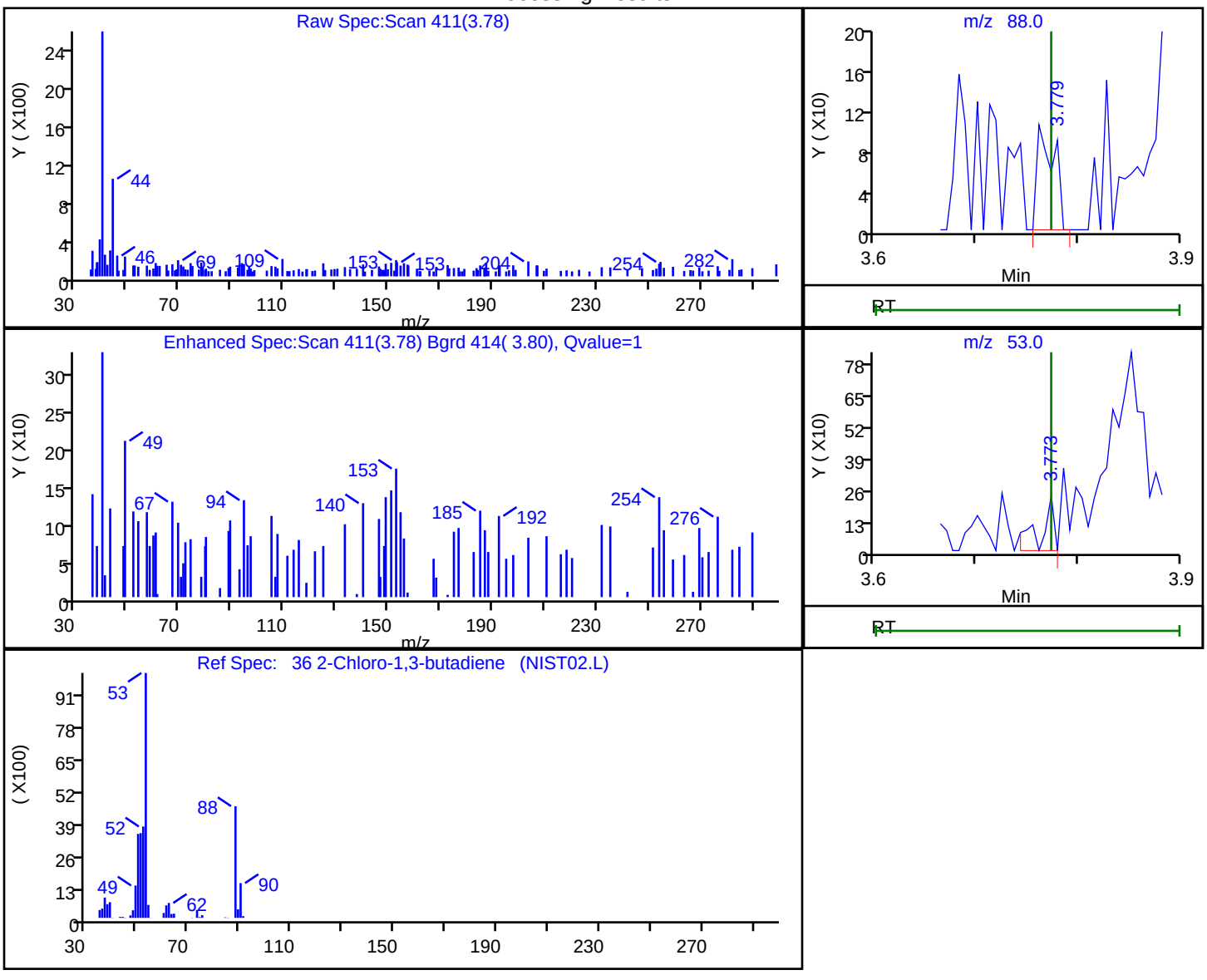
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

36 2-Chloro-1,3-butadiene, CAS: 126-99-8

Processing Results



RT	Mass	Response	Amount
3.78	88.00	119	0.047261
3.77	53.00	208	

Reviewer: delpolitov, 05-Jun-2018 13:00:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

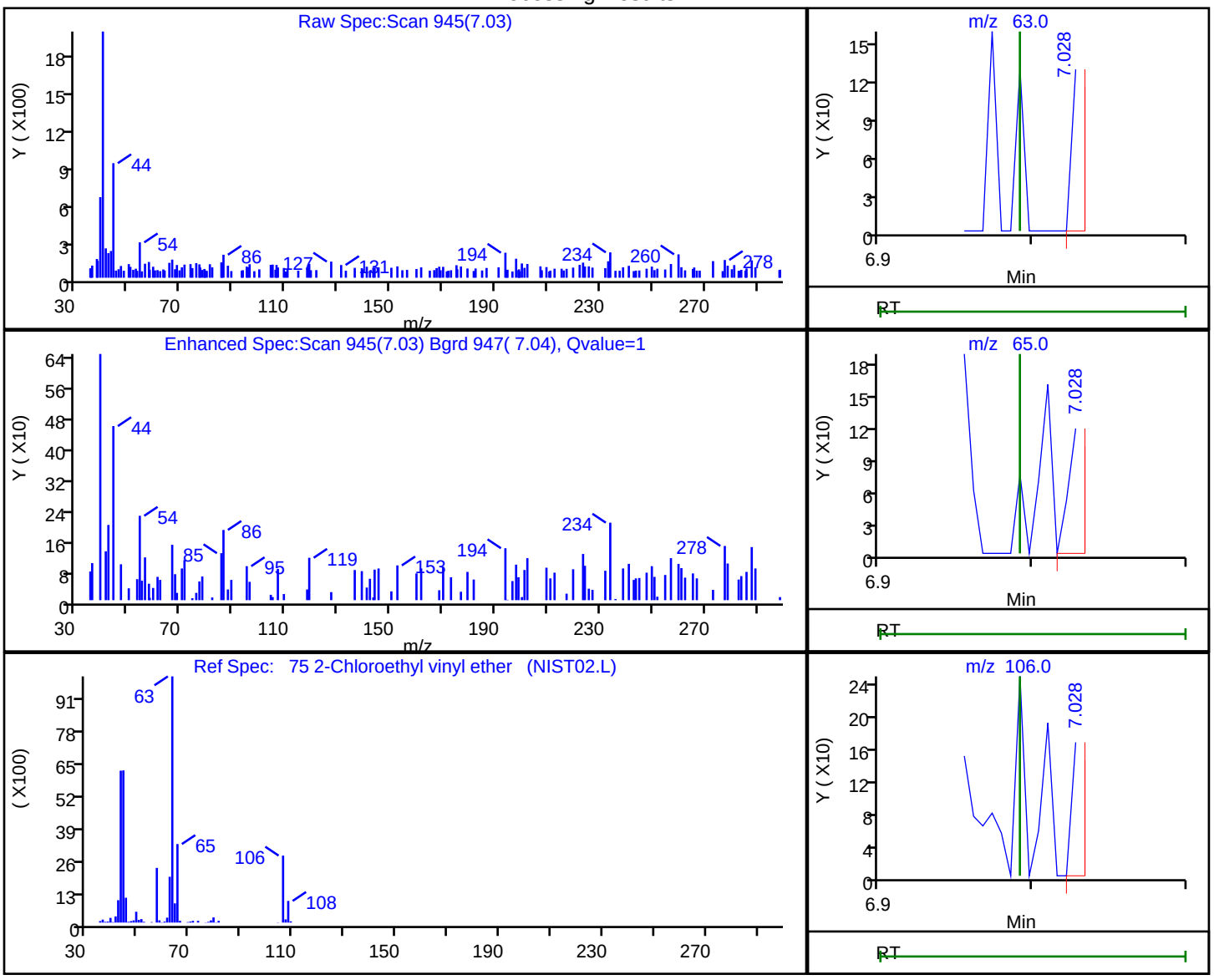
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 2-Chloroethyl vinyl ether, CAS: 110-75-8

Processing Results



RT	Mass	Response	Amount
7.03	63.00	68	0.049197
7.03	65.00	62	
7.03	106.00	84	

Reviewer: delpolitov, 05-Jun-2018 13:01:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

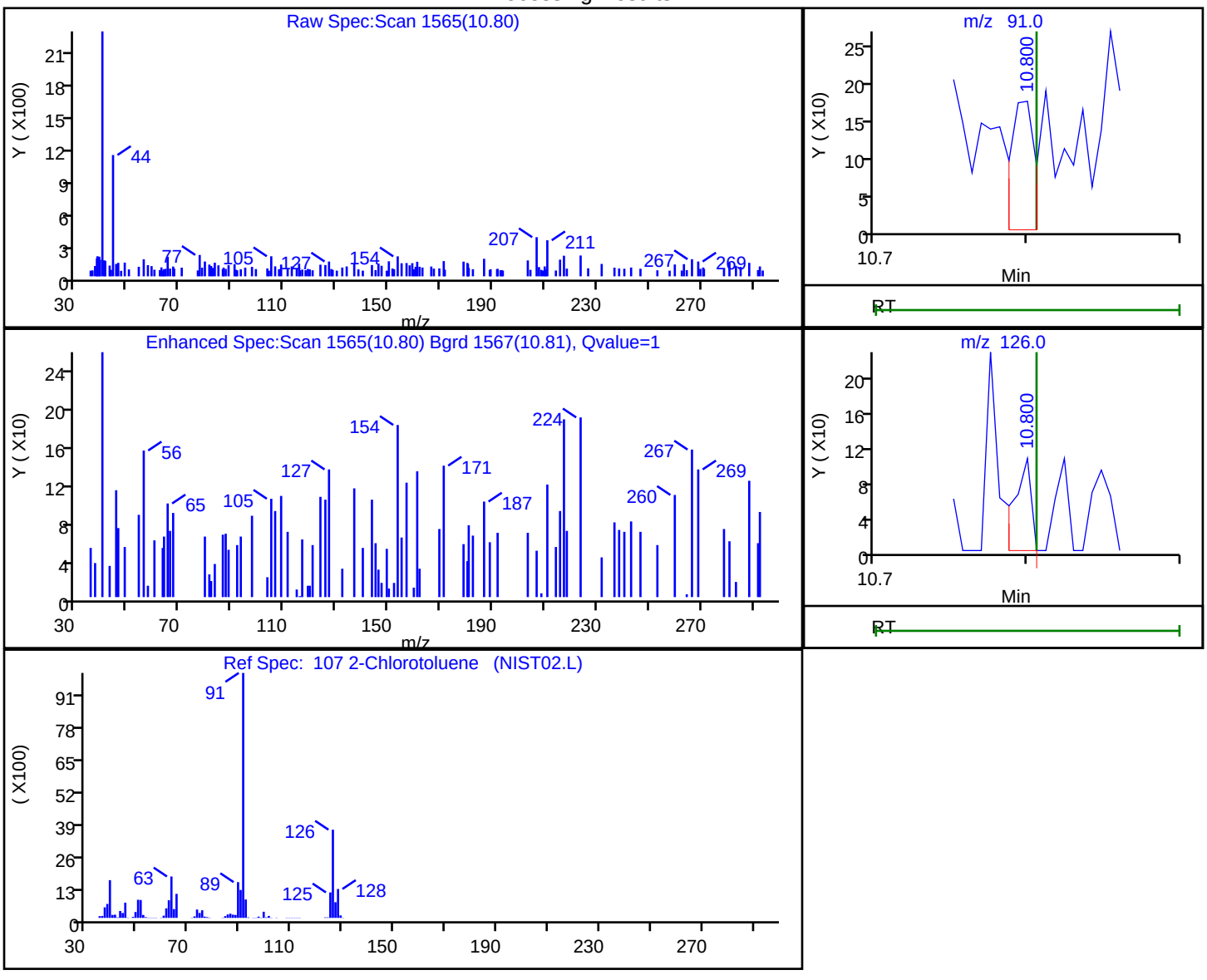
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

107 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
10.80	91.00	189	0.017927
10.80	126.00	79	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

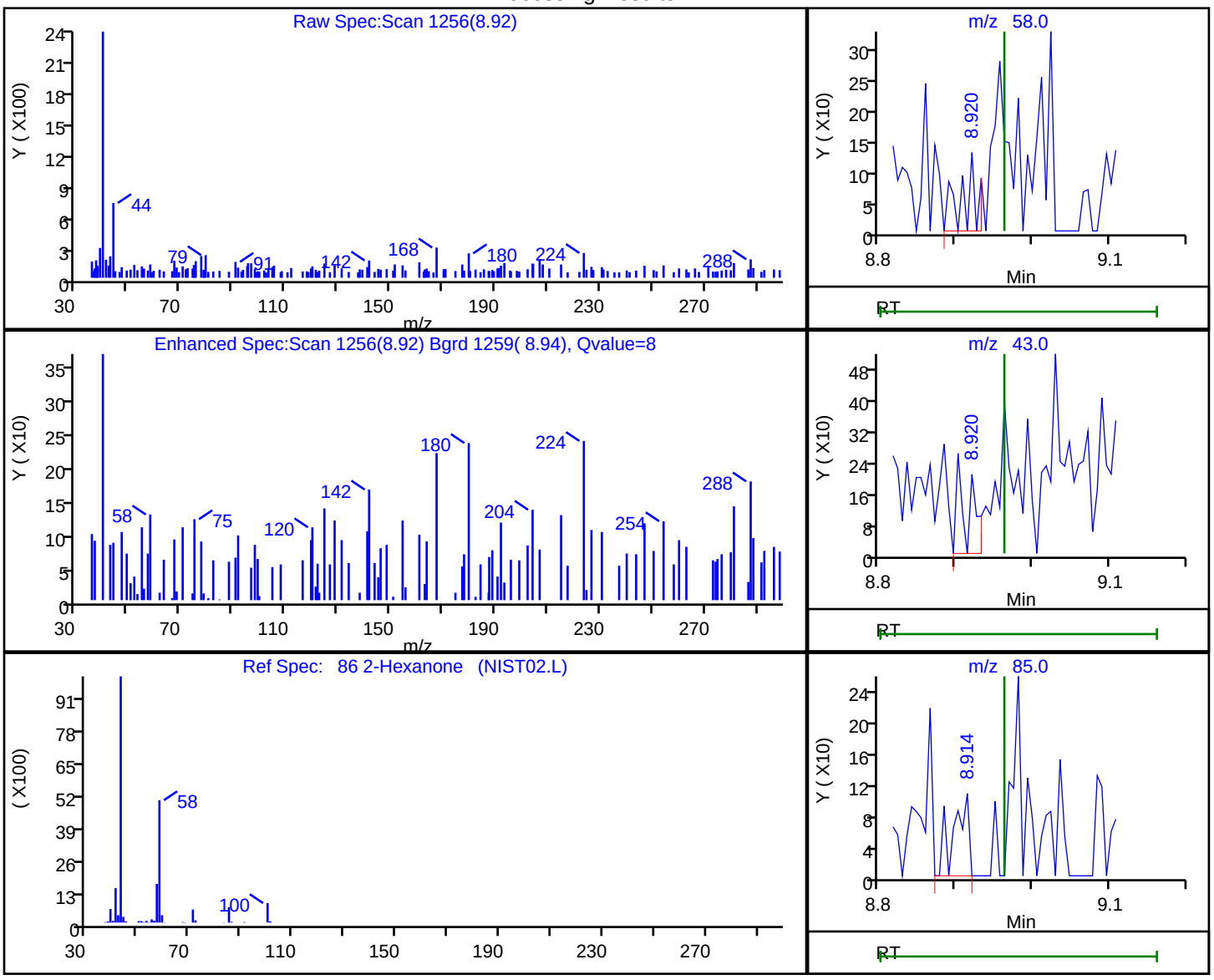
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
8.92	58.00	161	0.223326
8.92	43.00	276	
8.91	85.00	147	
8.91	100.00	242	

Reviewer: delpolitov, 05-Jun-2018 13:01:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

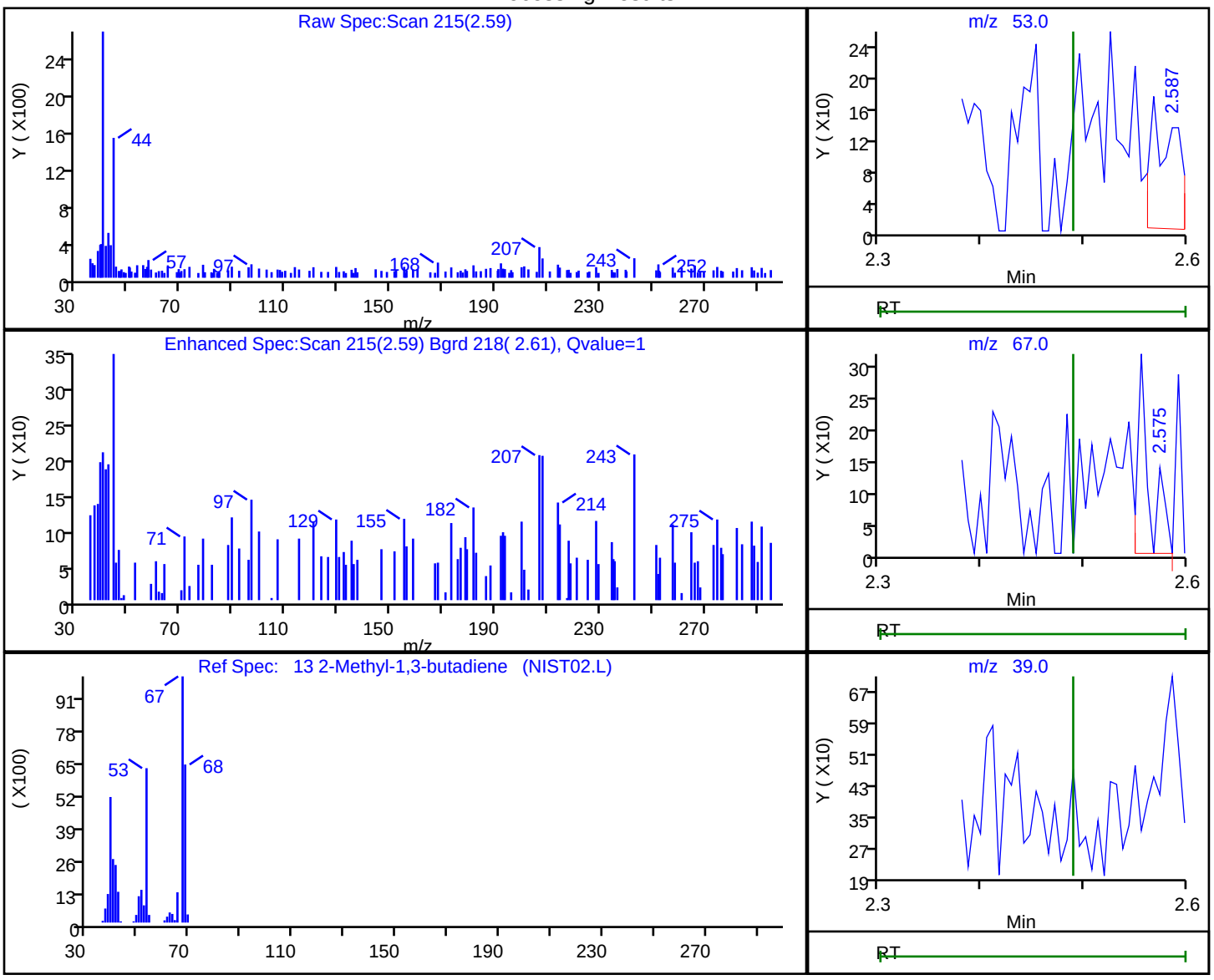
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
2.59	53.00	269	0.113876
2.57	67.00	248	
2.59	39.00	519	

Reviewer: delpolitov, 05-Jun-2018 13:00:43
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

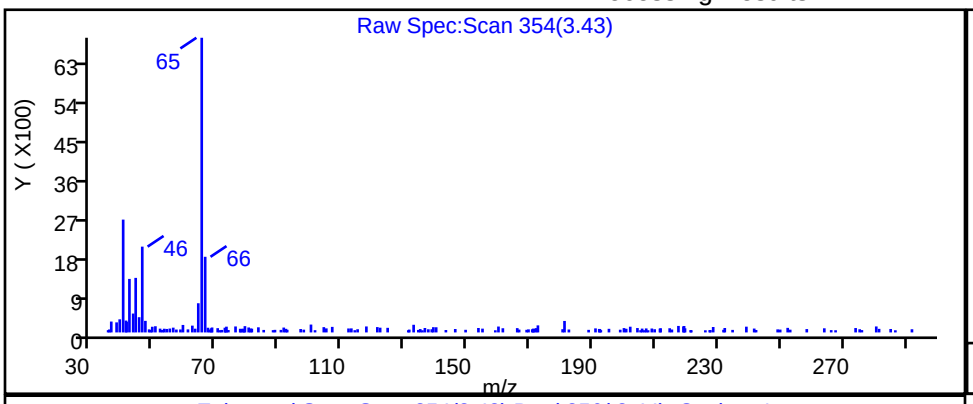
User Disabled Compound Report

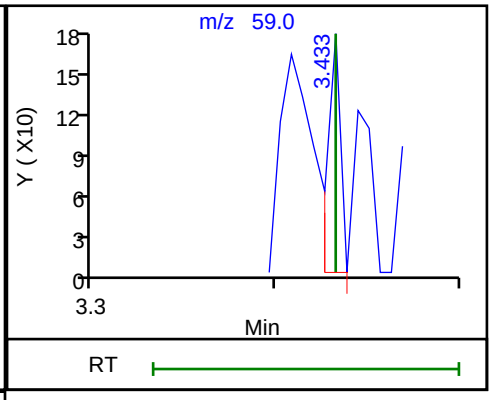
TestAmerica Edison

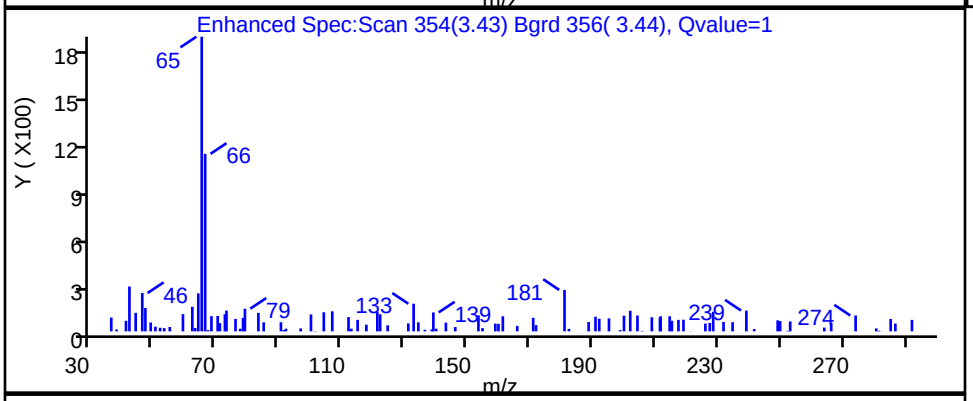
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

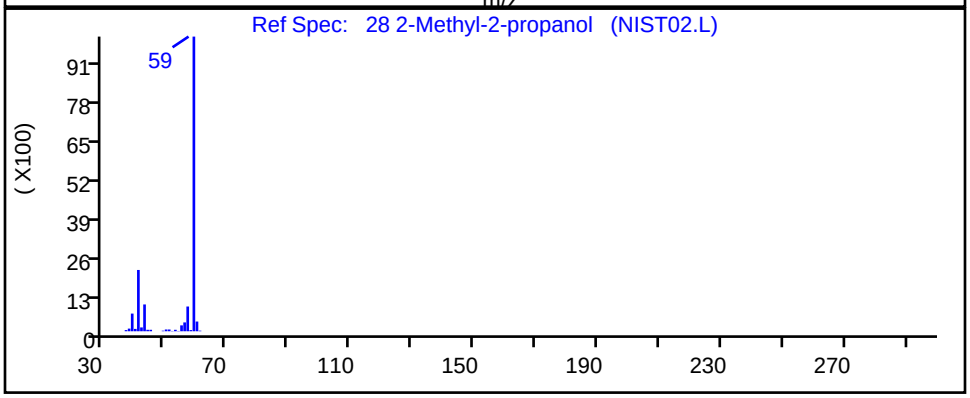
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
3.43	59.00	85	0.425108

Reviewer: delpolitov, 05-Jun-2018 13:00:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

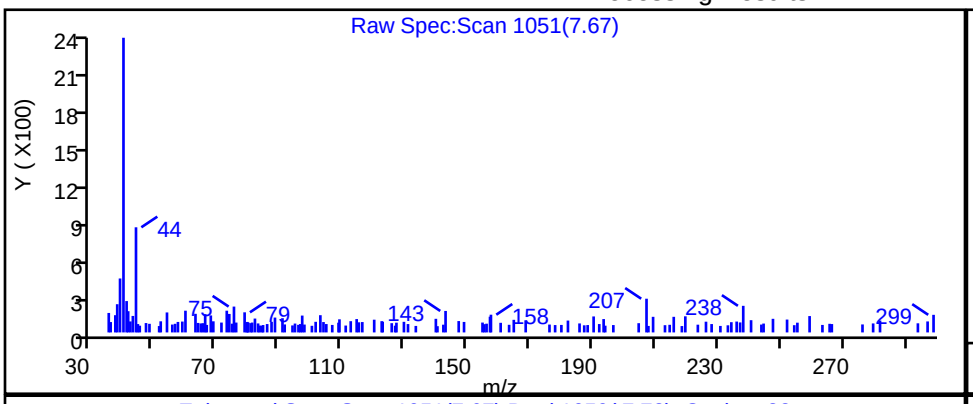
User Disabled Compound Report

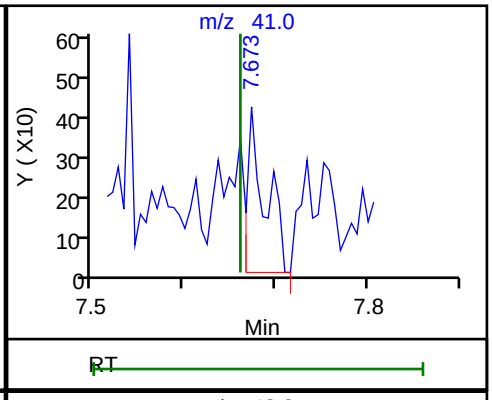
TestAmerica Edison

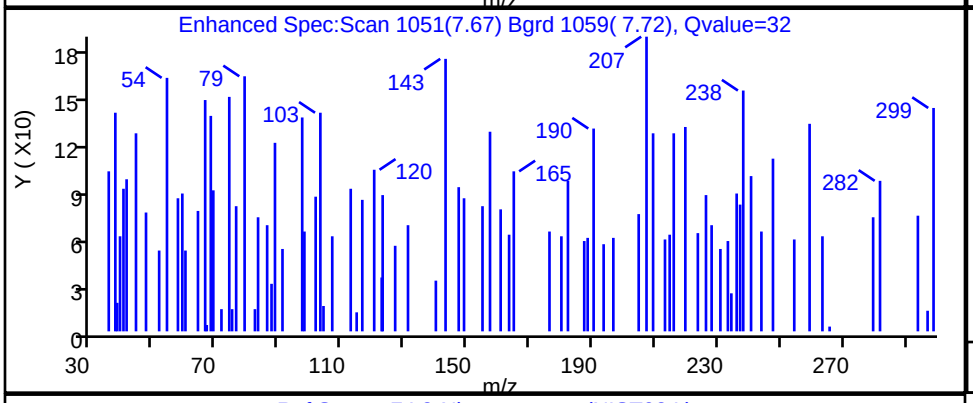
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

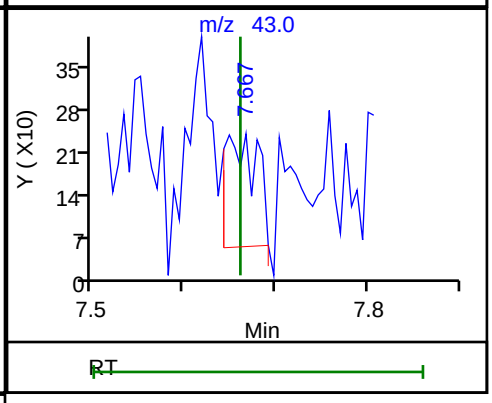
74 2-Nitropropane, CAS: 79-46-9

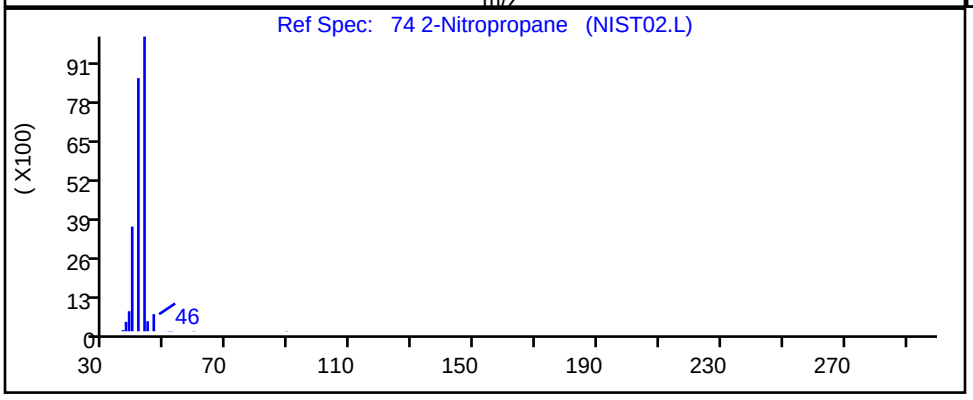
Processing Results











RT	Mass	Response	Amount
7.67	41.00	556	1.568634
7.67	43.00	457	

Reviewer: delpolitov, 05-Jun-2018 13:01:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

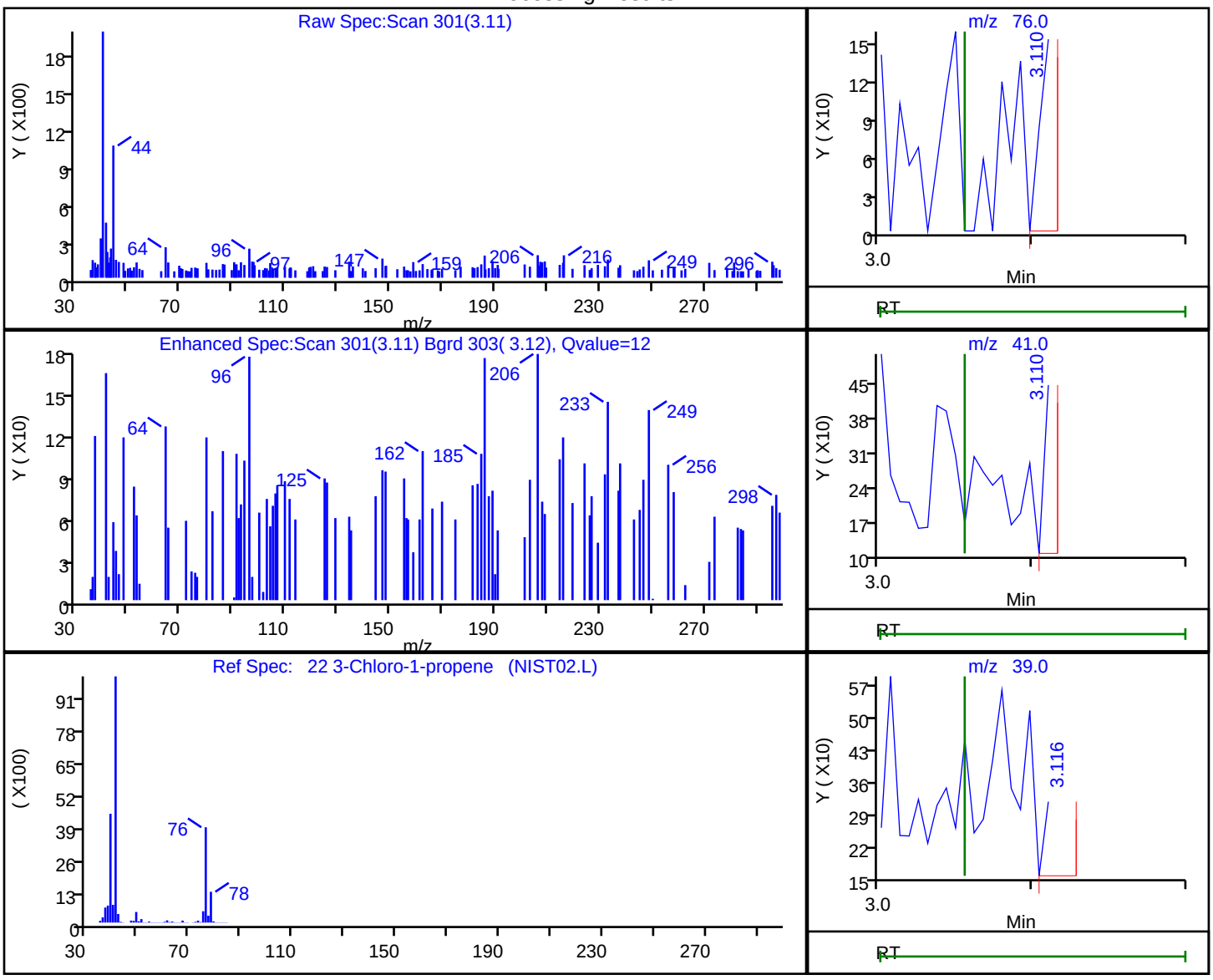
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.11	76.00	84	0.050929
3.11	41.00	155	
3.12	39.00	244	

Reviewer: delpolitov, 05-Jun-2018 13:00:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

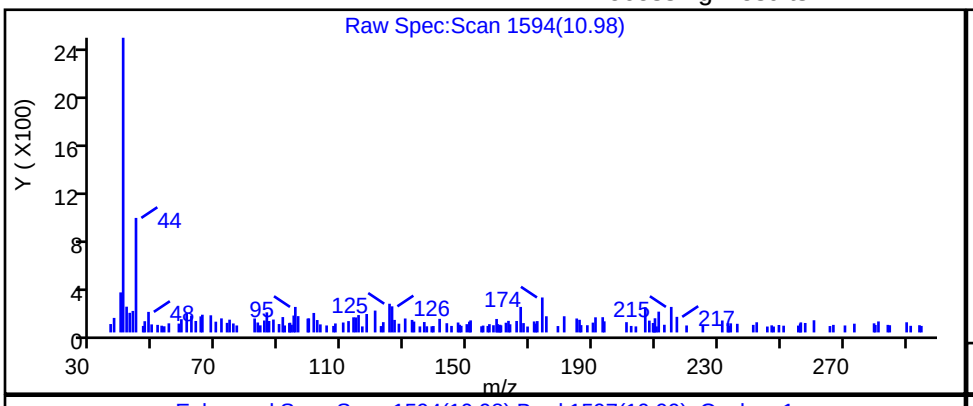
User Disabled Compound Report

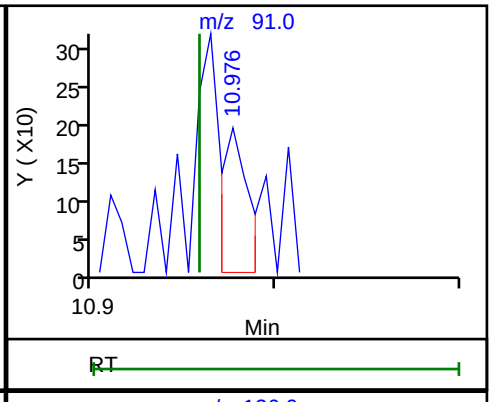
TestAmerica Edison

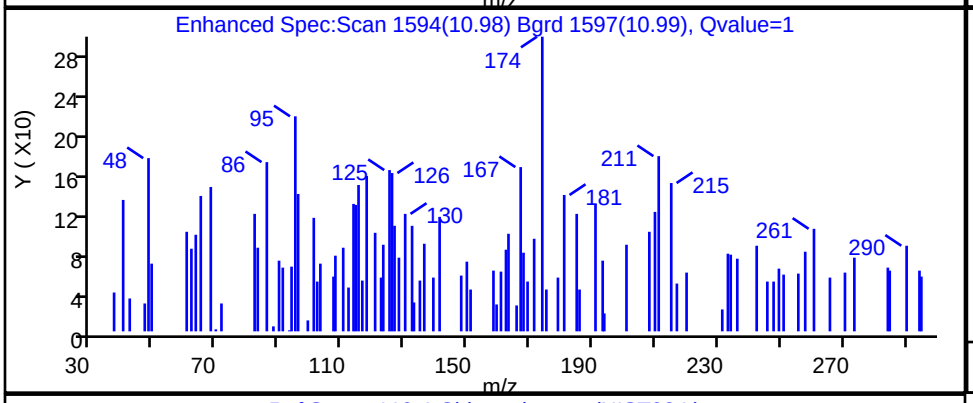
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

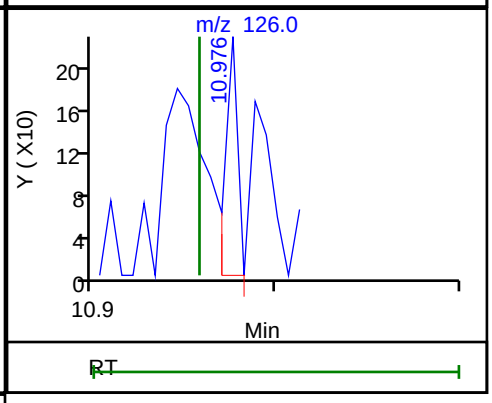
110 4-Chlorotoluene, CAS: 106-43-4

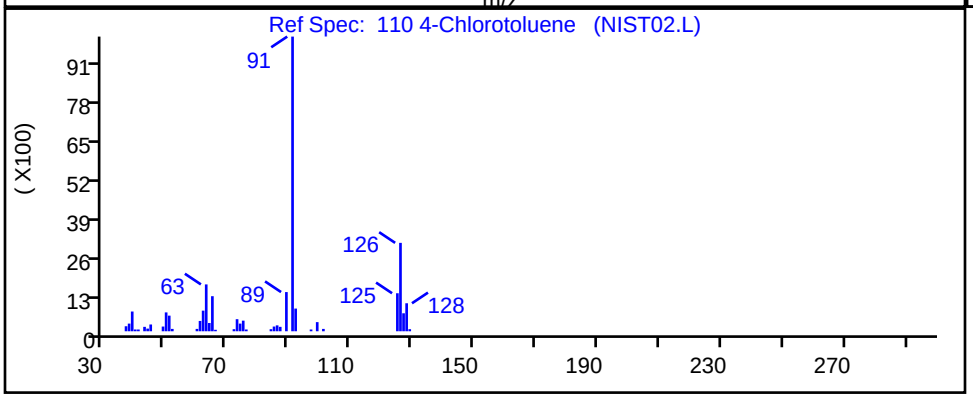
Processing Results











RT	Mass	Response	Amount
10.98	91.00	190	0.019784
10.98	126.00	102	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

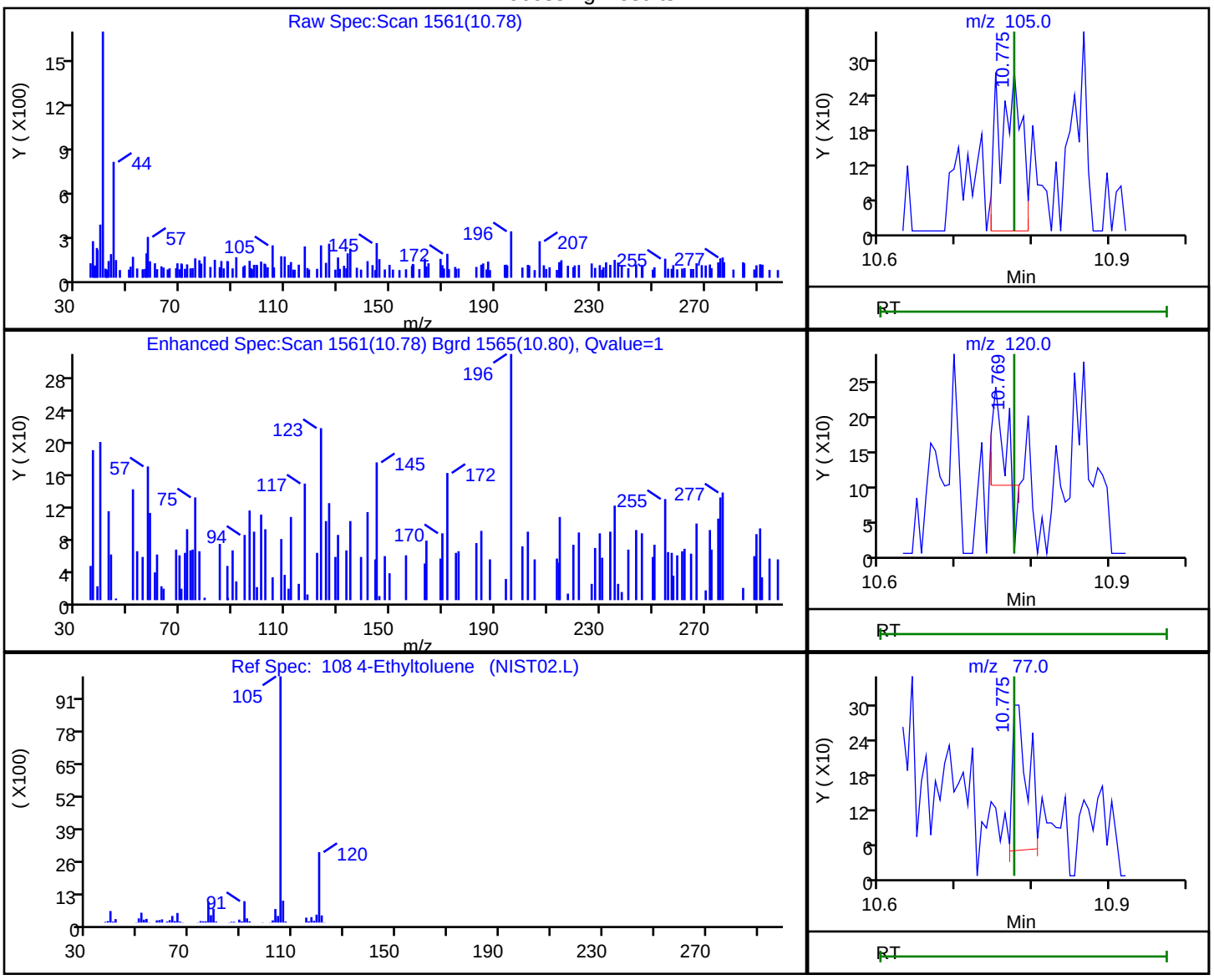
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

108 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
10.78	105.00	554	0.040941
10.77	120.00	115	
10.78	77.00	349	

Reviewer: delpolitov, 05-Jun-2018 13:01:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

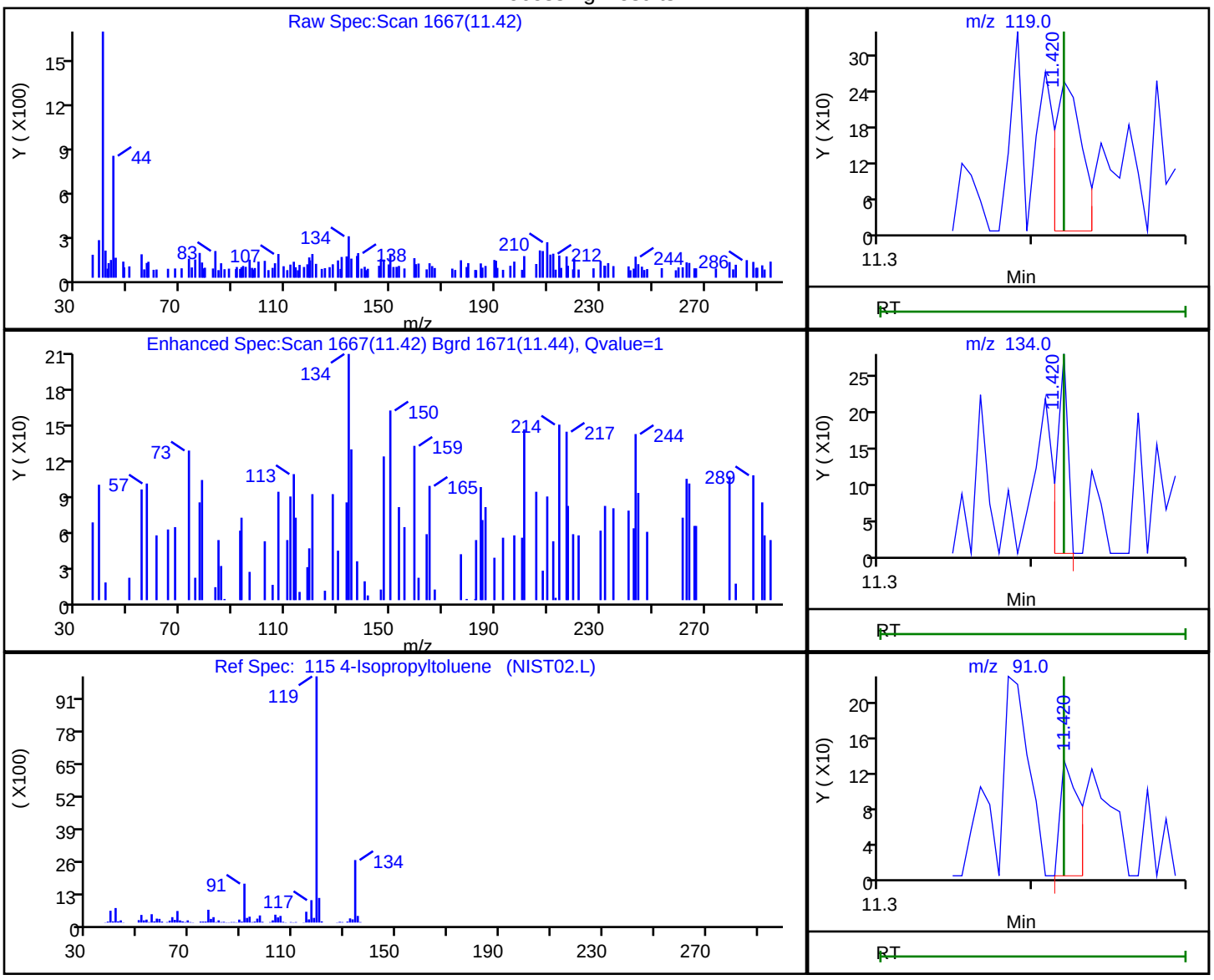
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.42	119.00	313	0.023896
11.42	134.00	137	
11.42	91.00	112	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

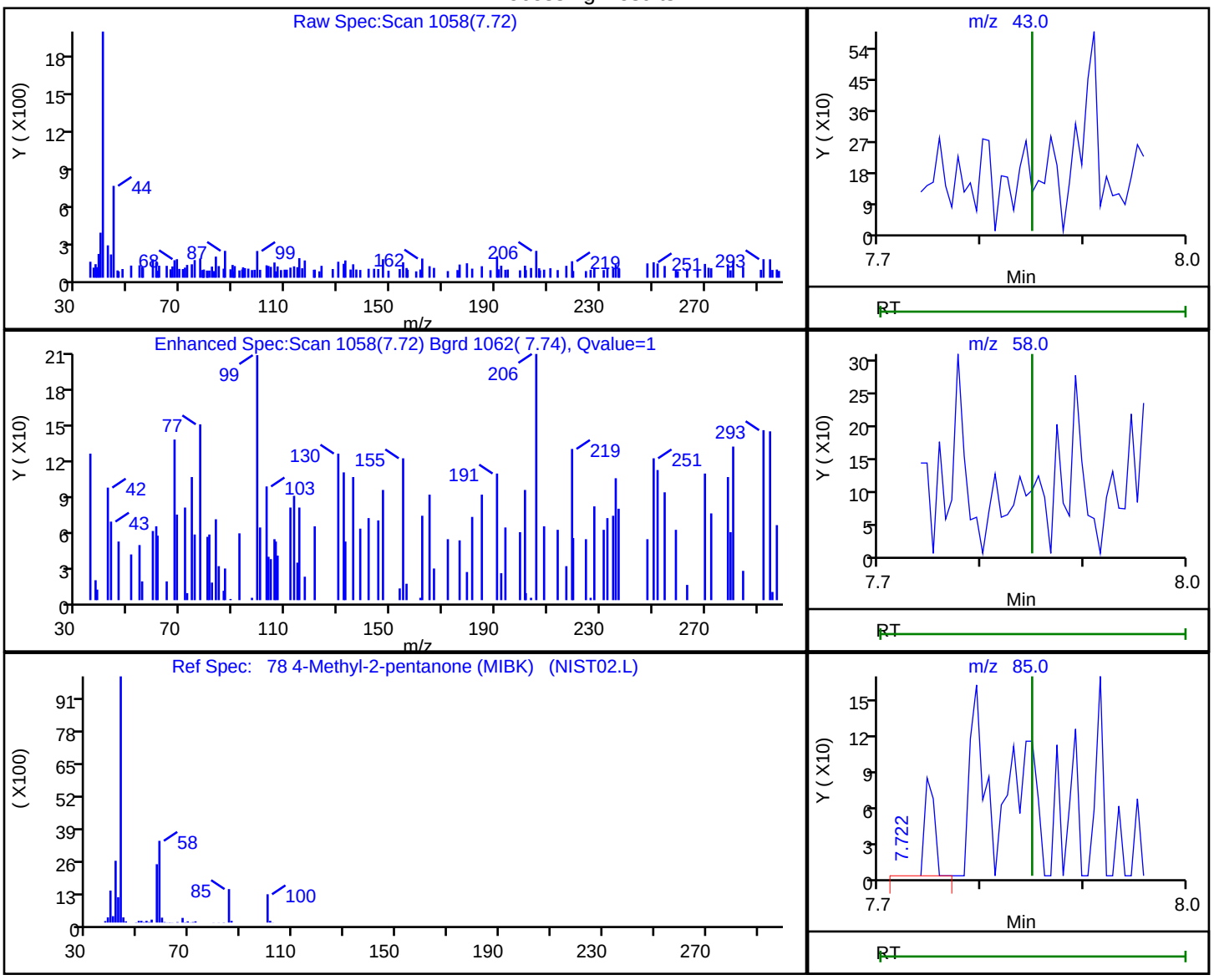
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

78 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.72	43.00	374	0.192770
7.70	58.00	127	
7.72	85.00	148	
7.71	100.00	112	

Reviewer: delpolitov, 05-Jun-2018 13:01:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

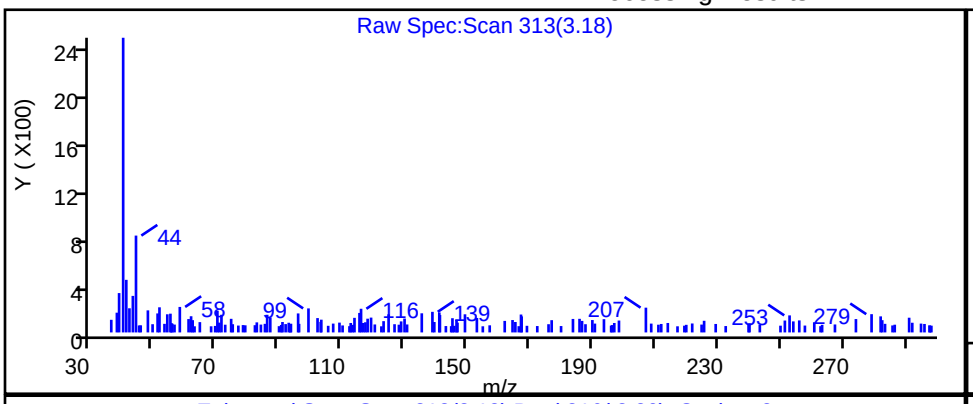
User Disabled Compound Report

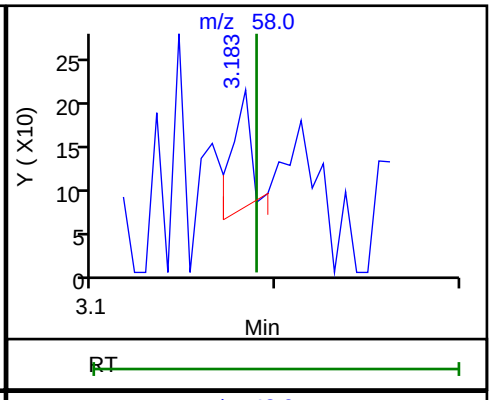
TestAmerica Edison

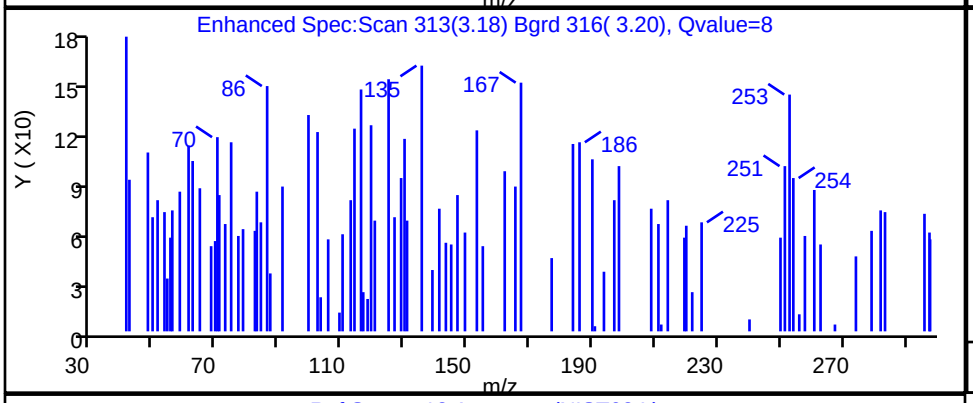
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

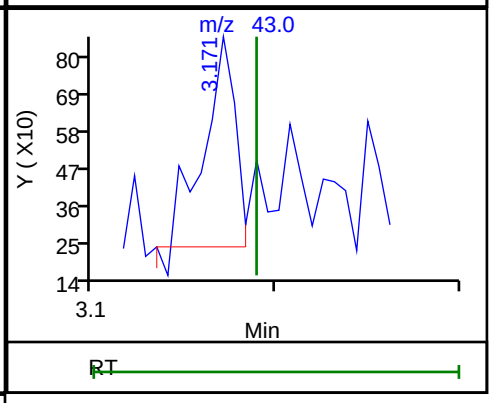
18 Acetone, CAS: 67-64-1

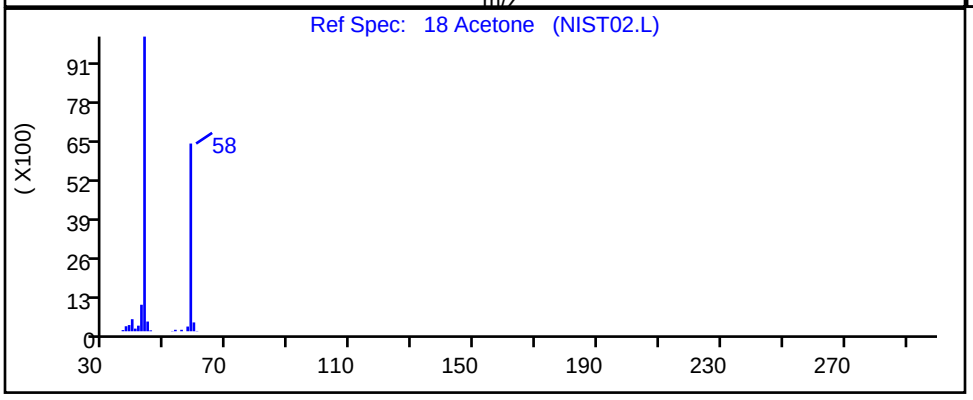
Processing Results











RT	Mass	Response	Amount
3.18	58.00	96	0.495156
3.17	43.00	737	

Reviewer: delpolitov, 05-Jun-2018 13:00:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

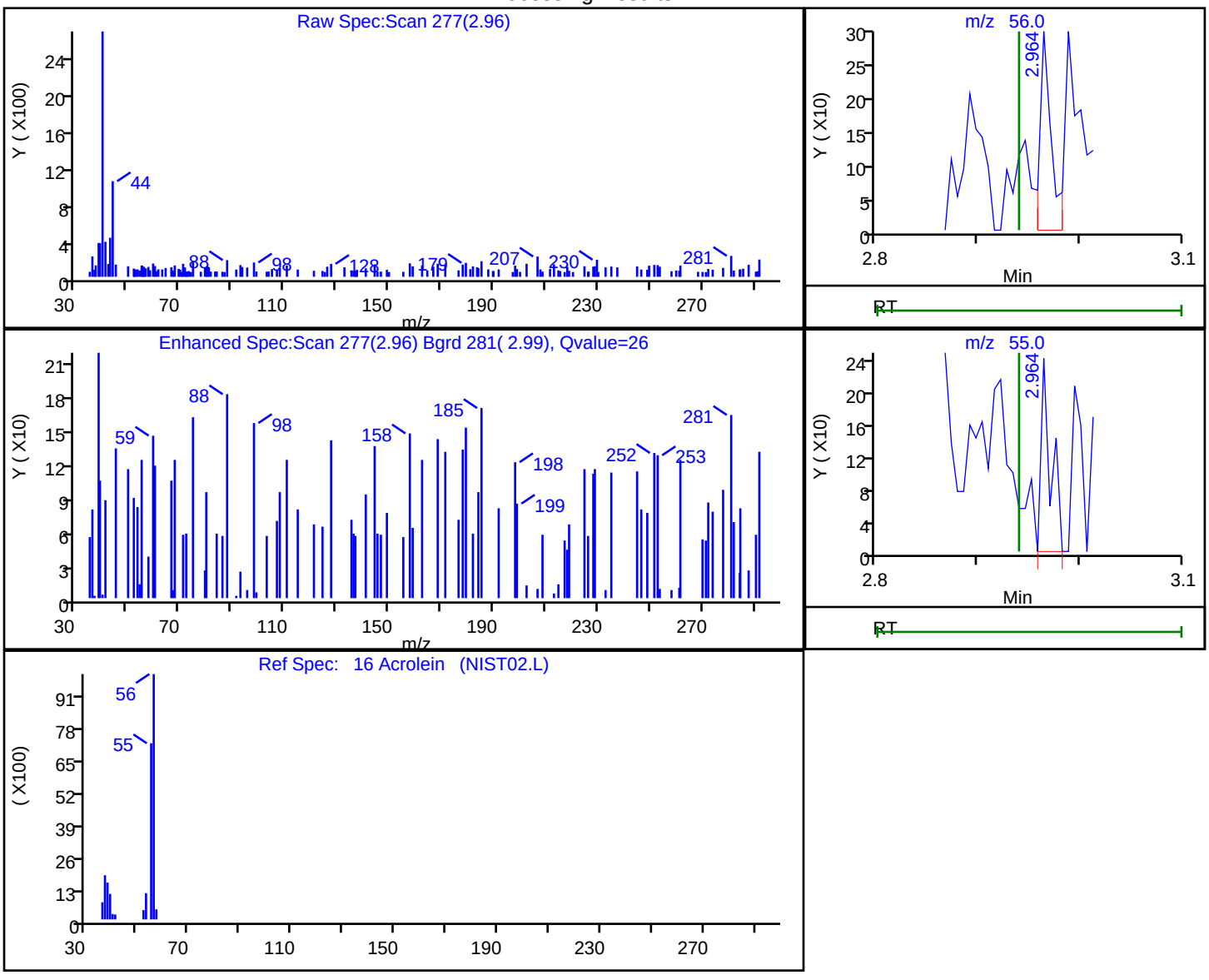
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.96	56.00	228	0.686090
2.96	55.00	158	

Reviewer: delpolitov, 05-Jun-2018 13:00:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

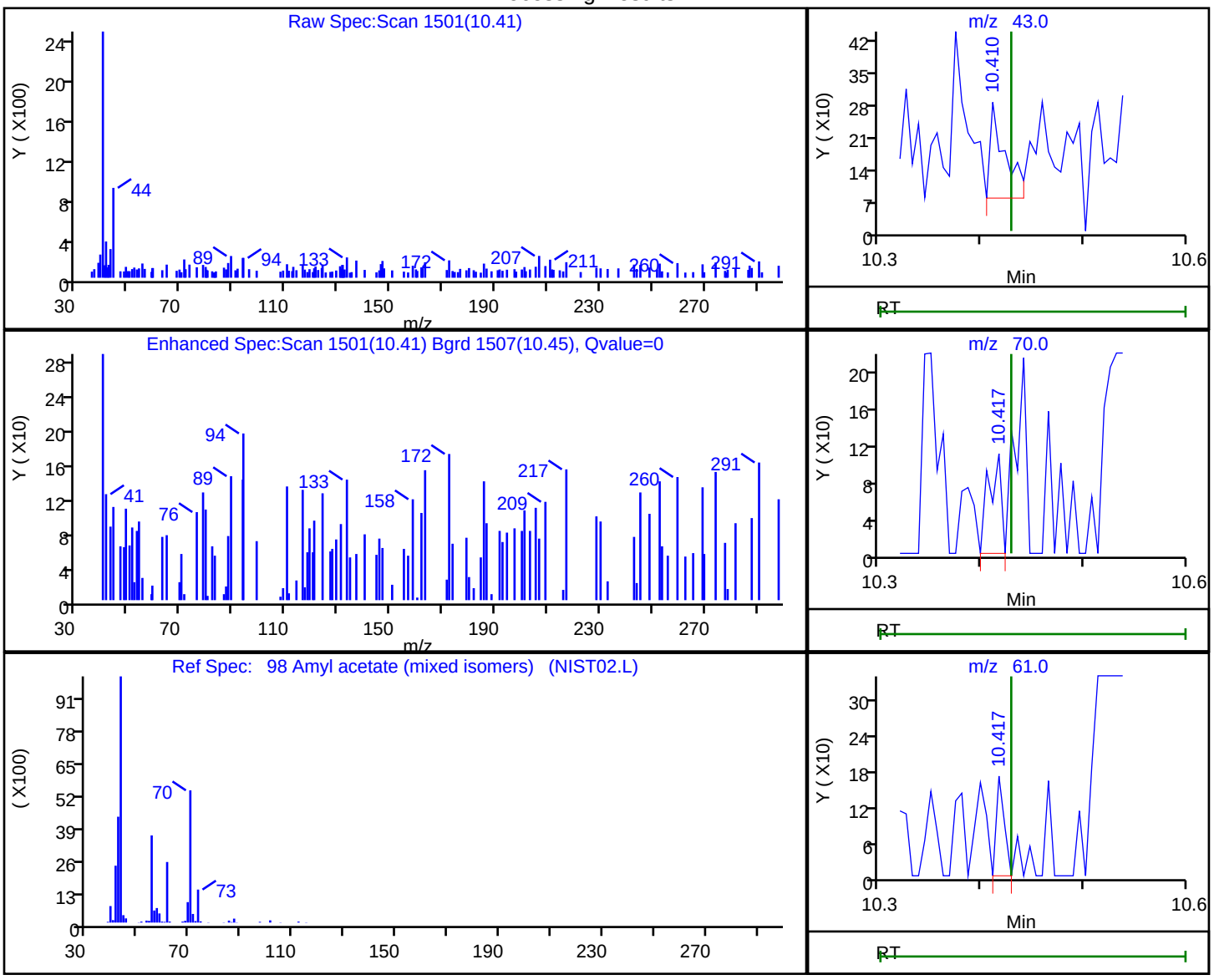
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

98 Amyl acetate (mixed isomers), CAS: 628-63-7

Processing Results



RT	Mass	Response	Amount
10.41	43.00	212	0.053628
10.42	70.00	91	
10.42	61.00	91	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

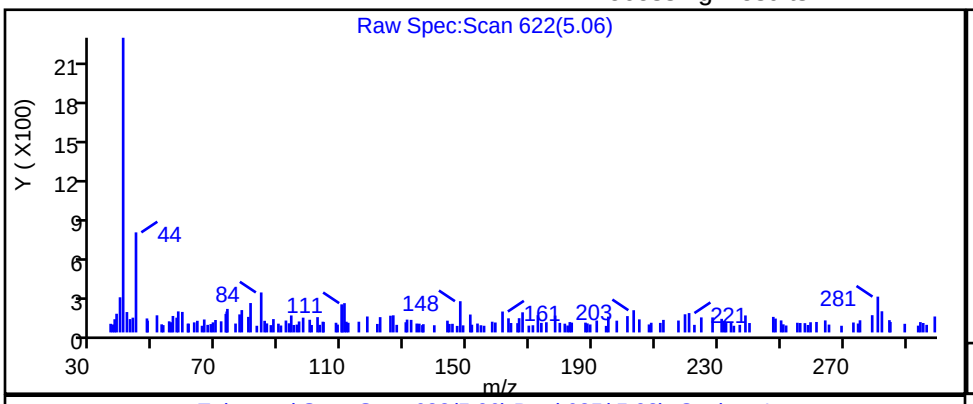
User Disabled Compound Report

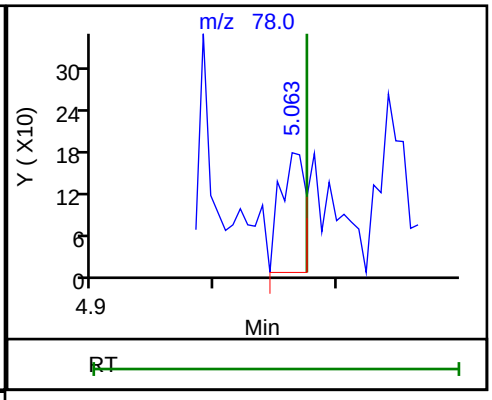
TestAmerica Edison

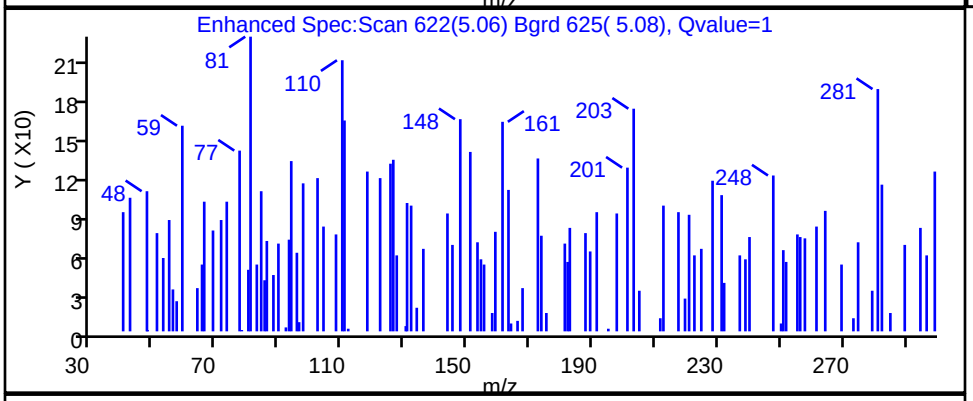
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

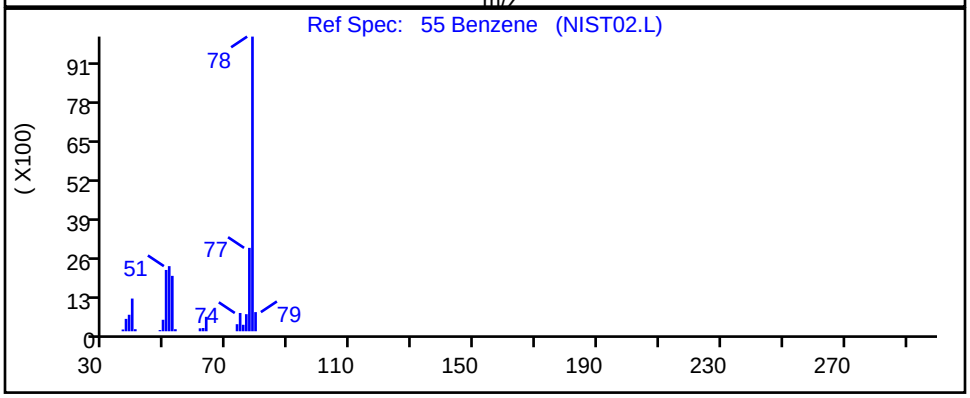
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
5.06	78.00	248	0.020964

Reviewer: delpolitov, 05-Jun-2018 13:01:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

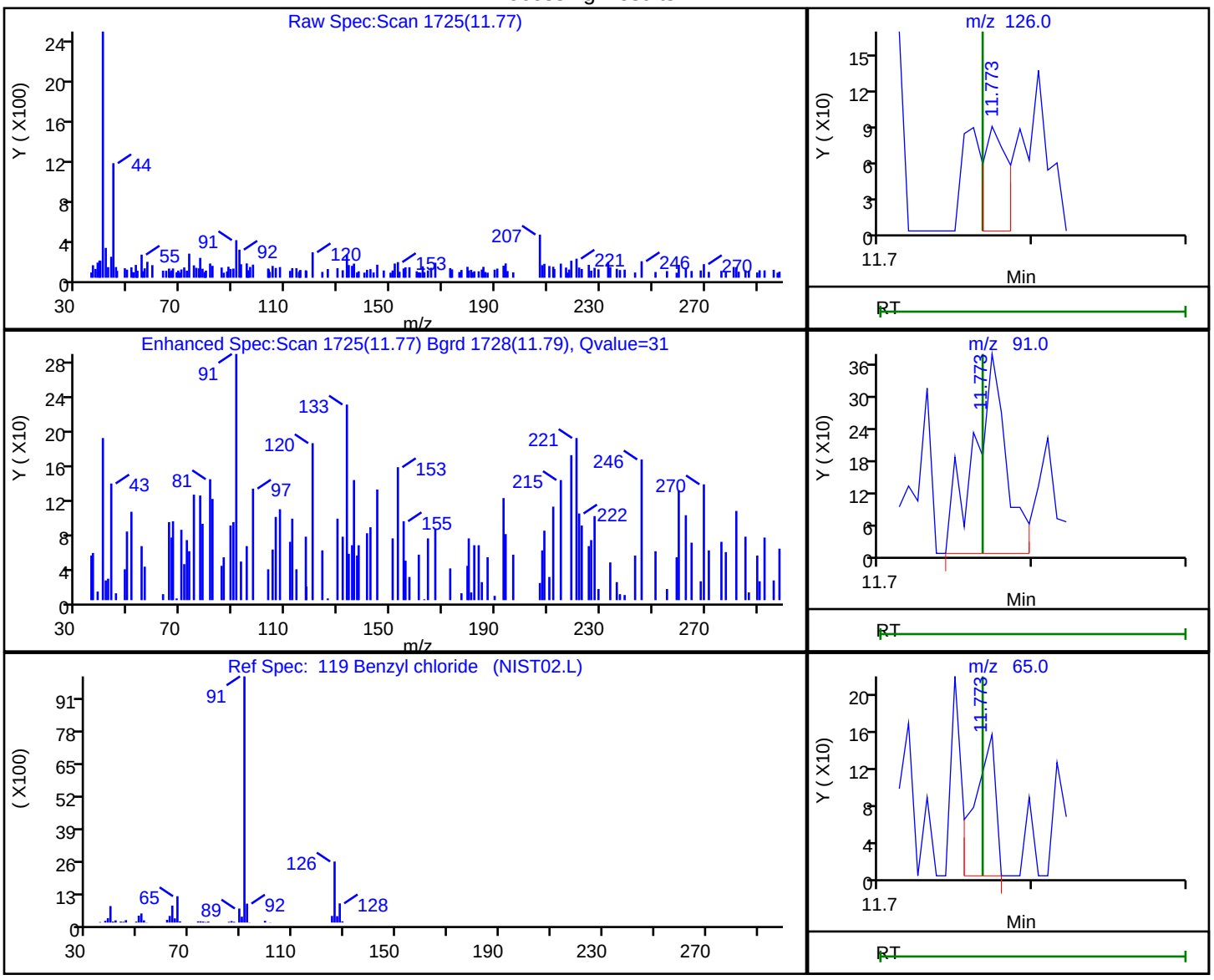
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

119 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
11.77	126.00	96	0.082817
11.77	91.00	548	
11.77	65.00	144	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

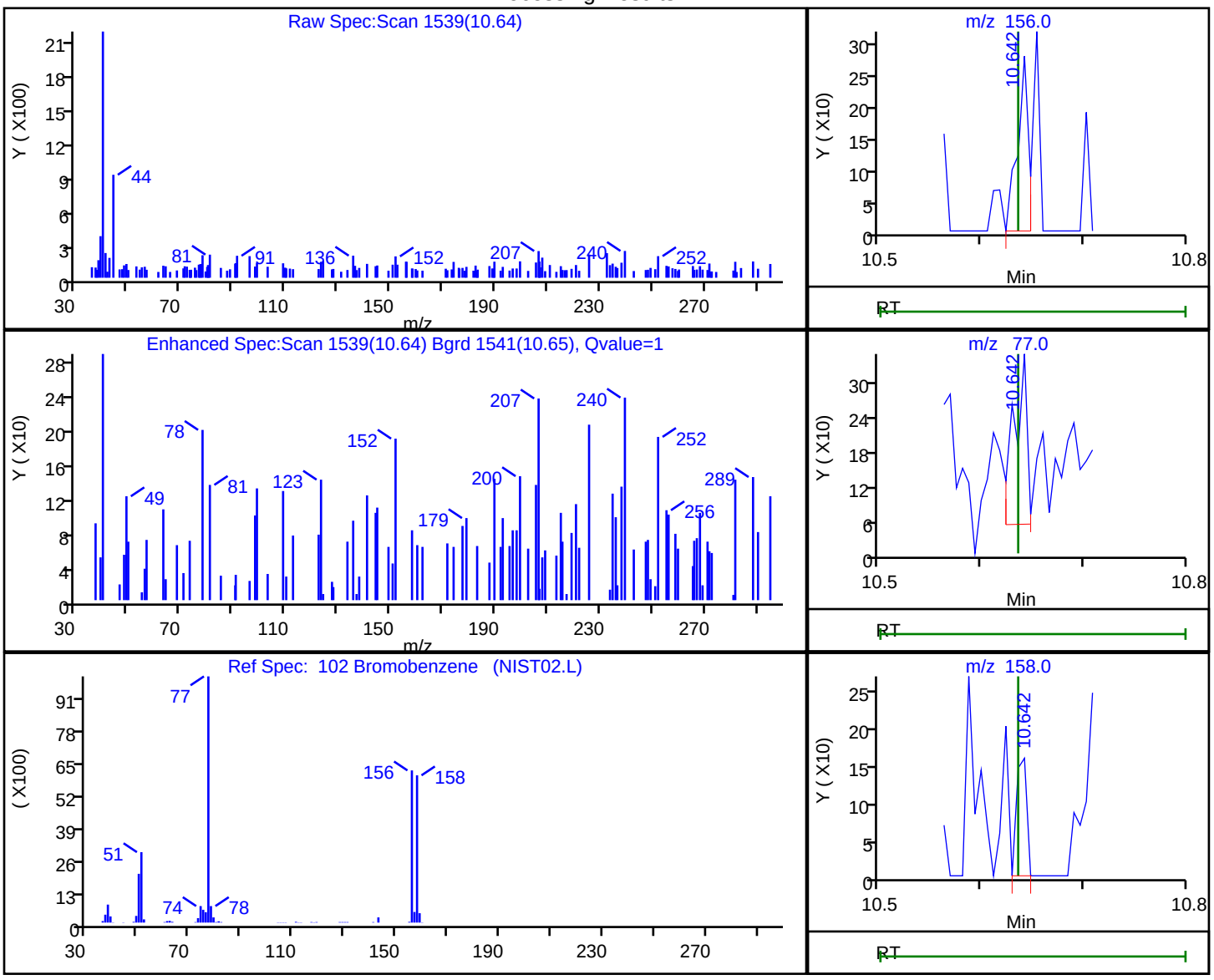
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
10.64	156.00	212	0.058696
10.64	77.00	267	
10.64	158.00	111	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

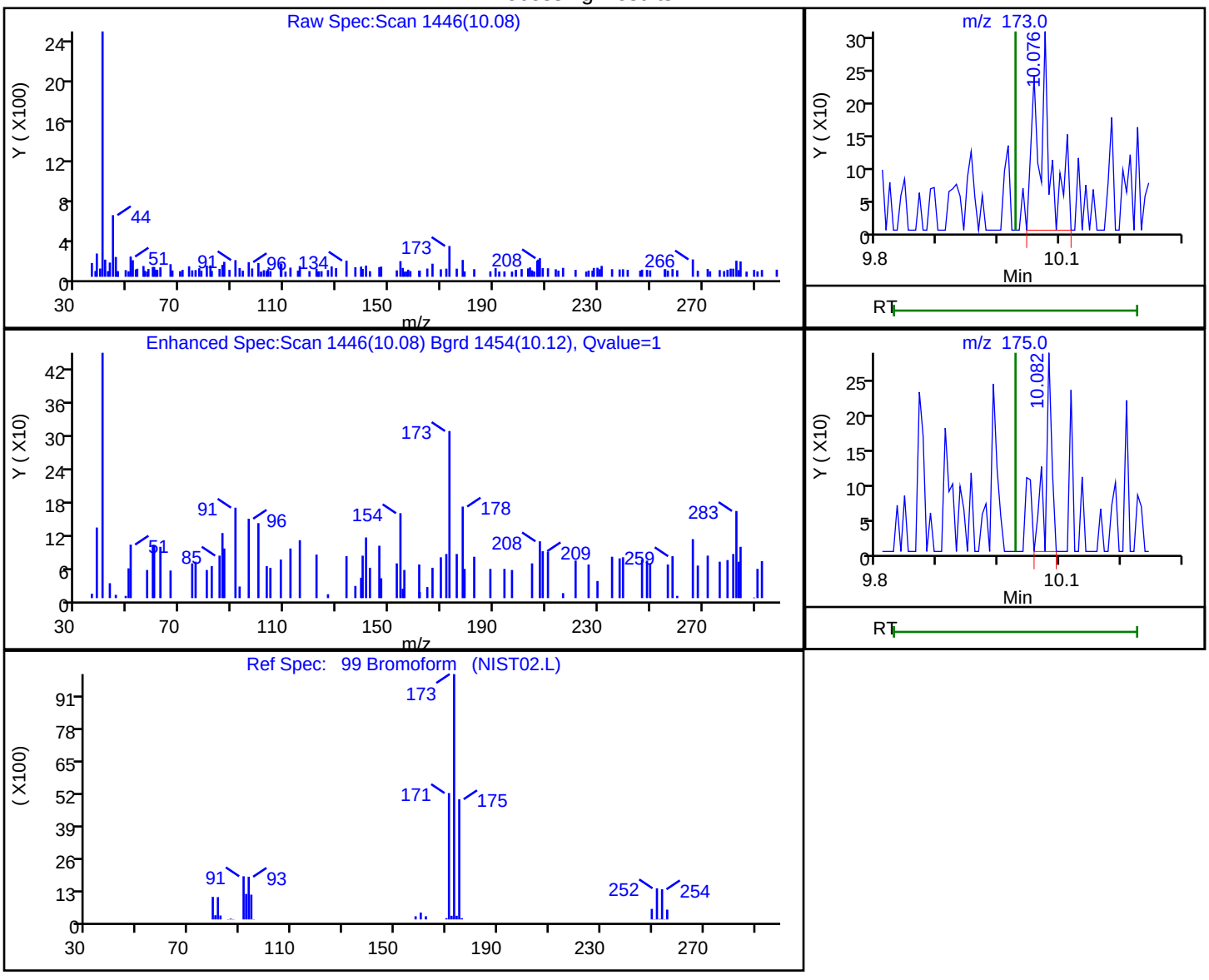
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

99 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
10.08	173.00	464	0.360257
10.08	175.00	210	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

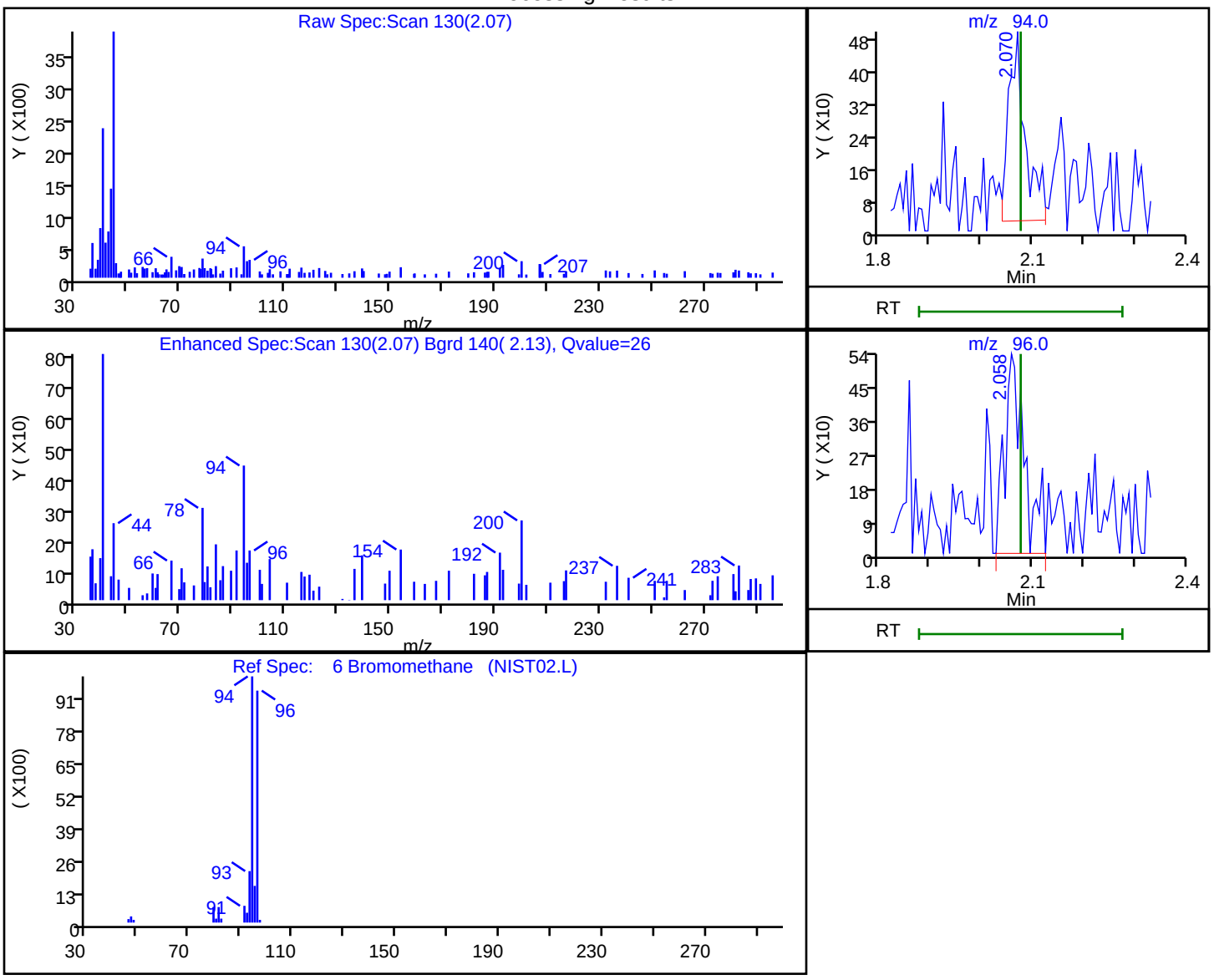
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.07	94.00	1065	0.475759
2.06	96.00	1447	

Reviewer: delpolitov, 05-Jun-2018 13:00:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

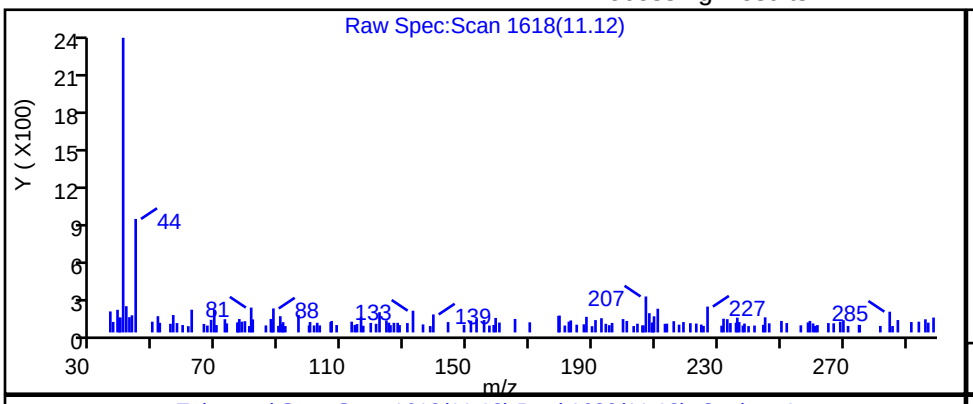
User Disabled Compound Report

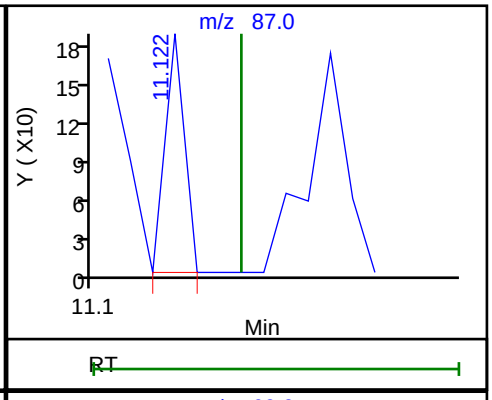
TestAmerica Edison

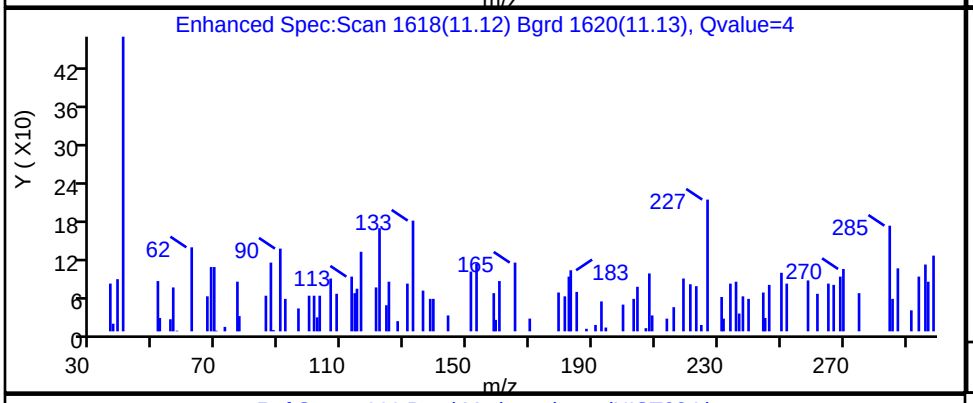
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

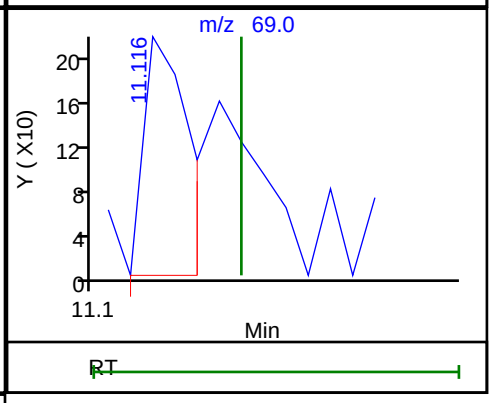
111 Butyl Methacrylate, CAS: 97-88-1

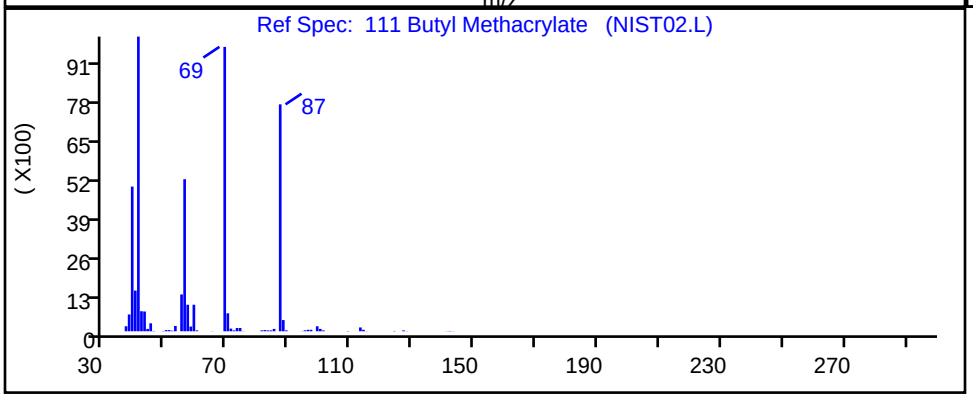
Processing Results











RT	Mass	Response	Amount
11.12	87.00	67	0.019482
11.12	69.00	183	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

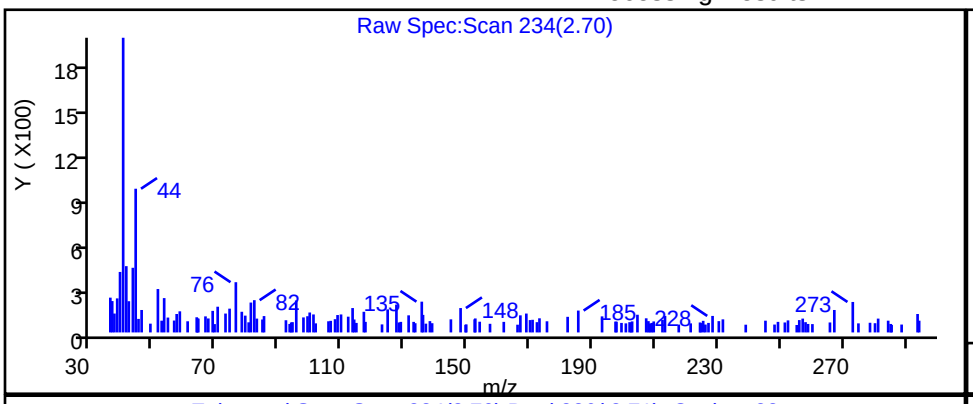
User Disabled Compound Report

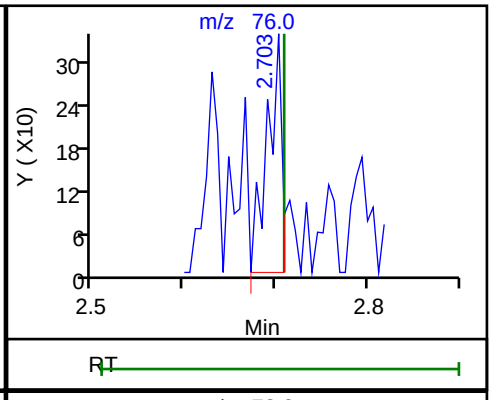
TestAmerica Edison

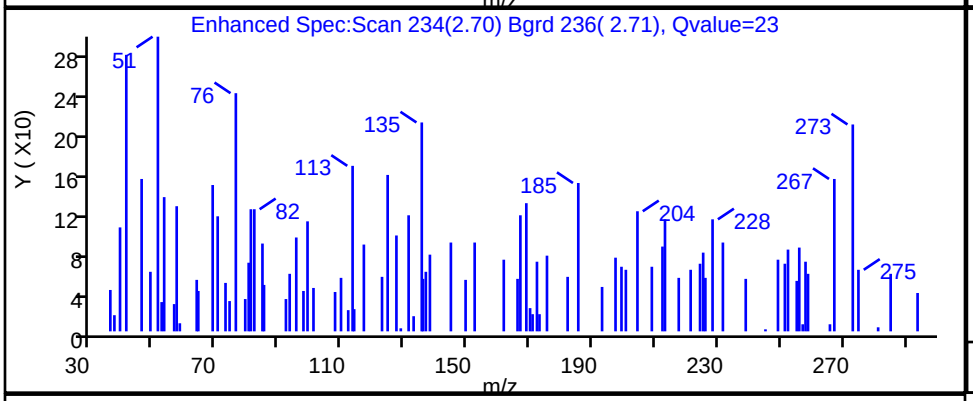
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

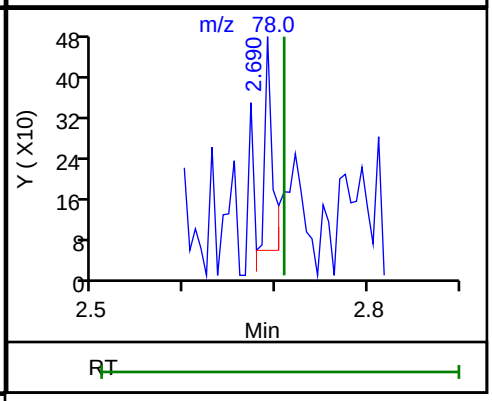
20 Carbon disulfide, CAS: 75-15-0

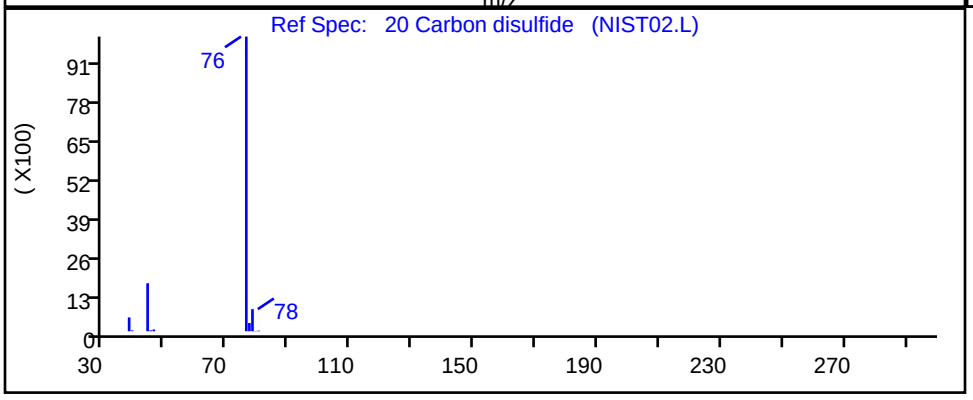
Processing Results











RT	Mass	Response	Amount
2.70	76.00	373	0.038539
2.69	78.00	237	

Reviewer: delpolitov, 05-Jun-2018 13:00:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

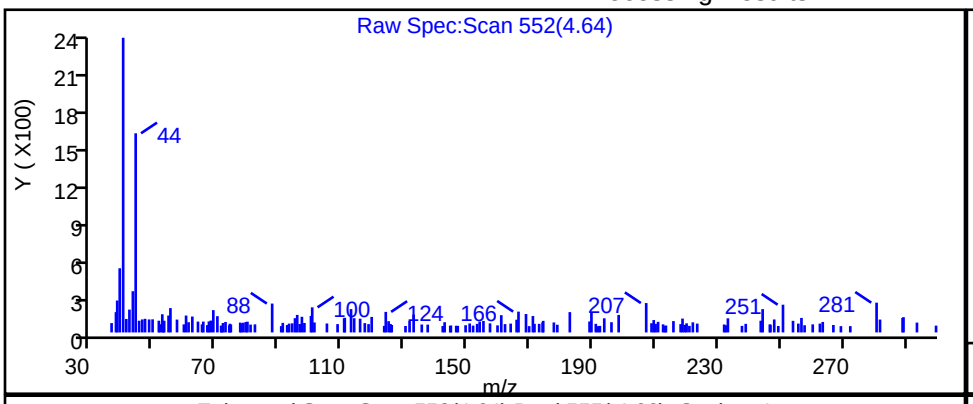
User Disabled Compound Report

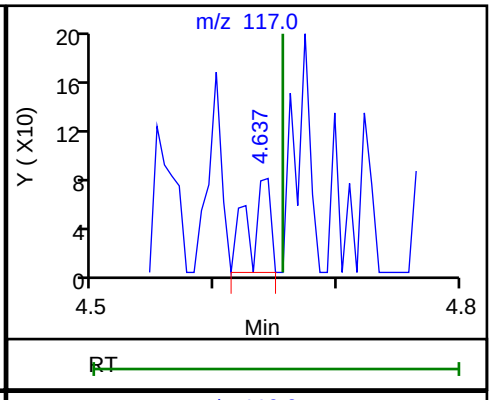
TestAmerica Edison

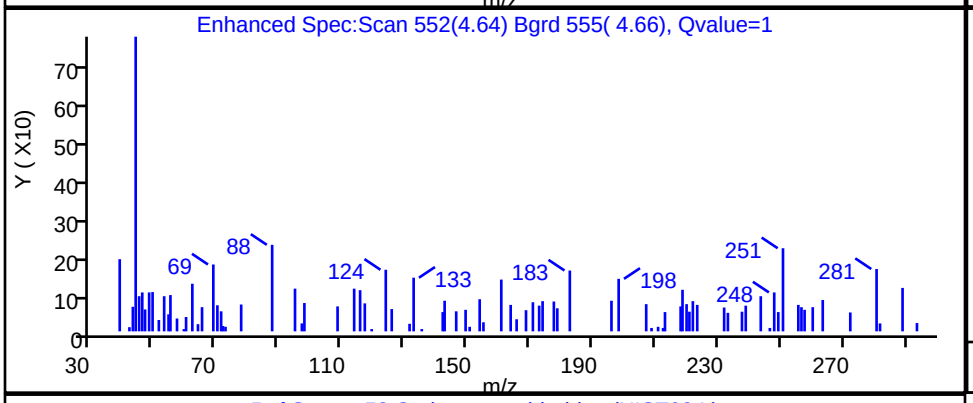
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

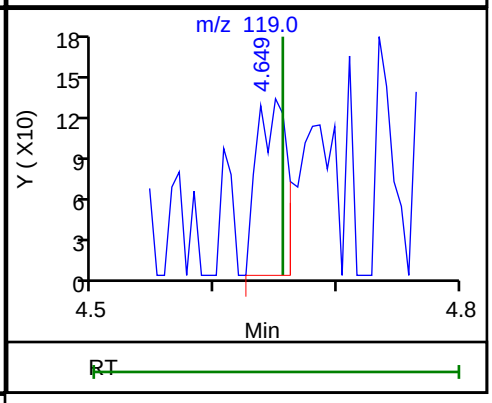
52 Carbon tetrachloride, CAS: 56-23-5

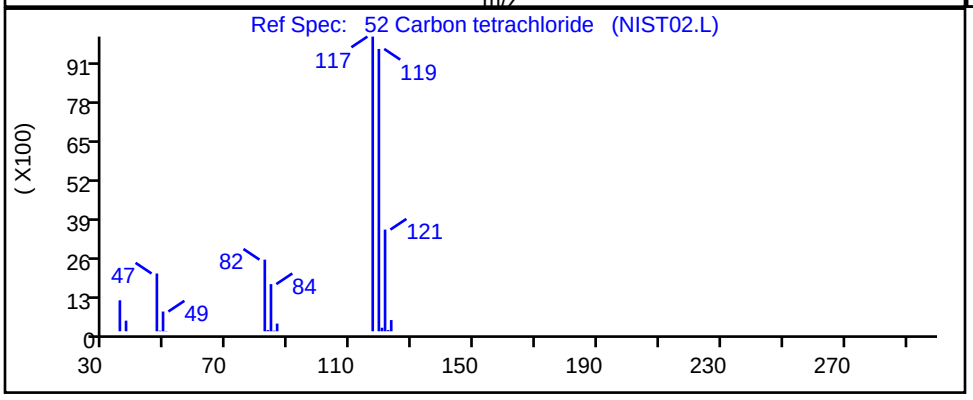
Processing Results











RT	Mass	Response	Amount
4.64	117.00	93	0.024506
4.65	119.00	218	

Reviewer: delpolitov, 05-Jun-2018 13:01:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

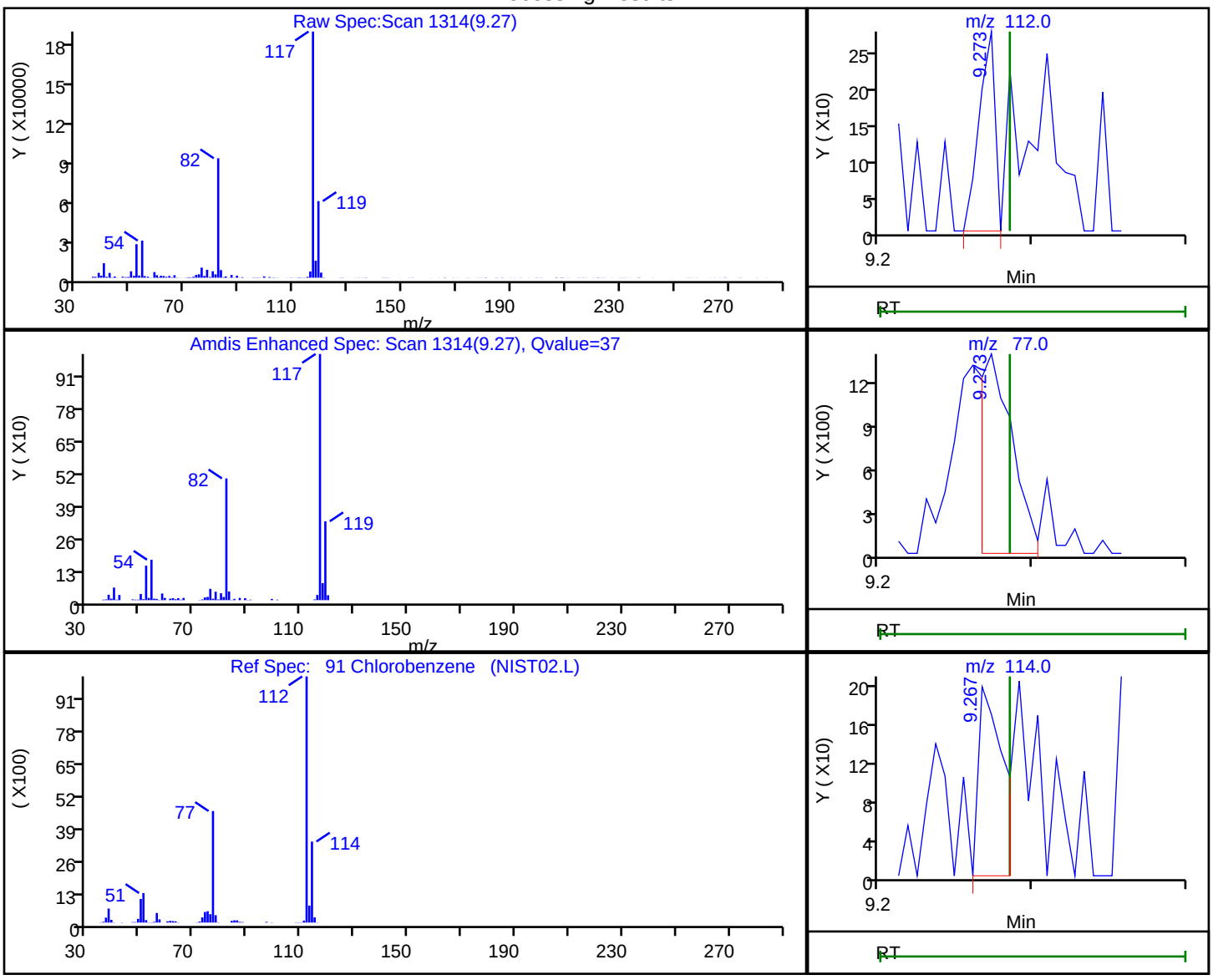
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

91 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
9.27	112.00	197	0.023194
9.27	77.00	1957	
9.27	114.00	221	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

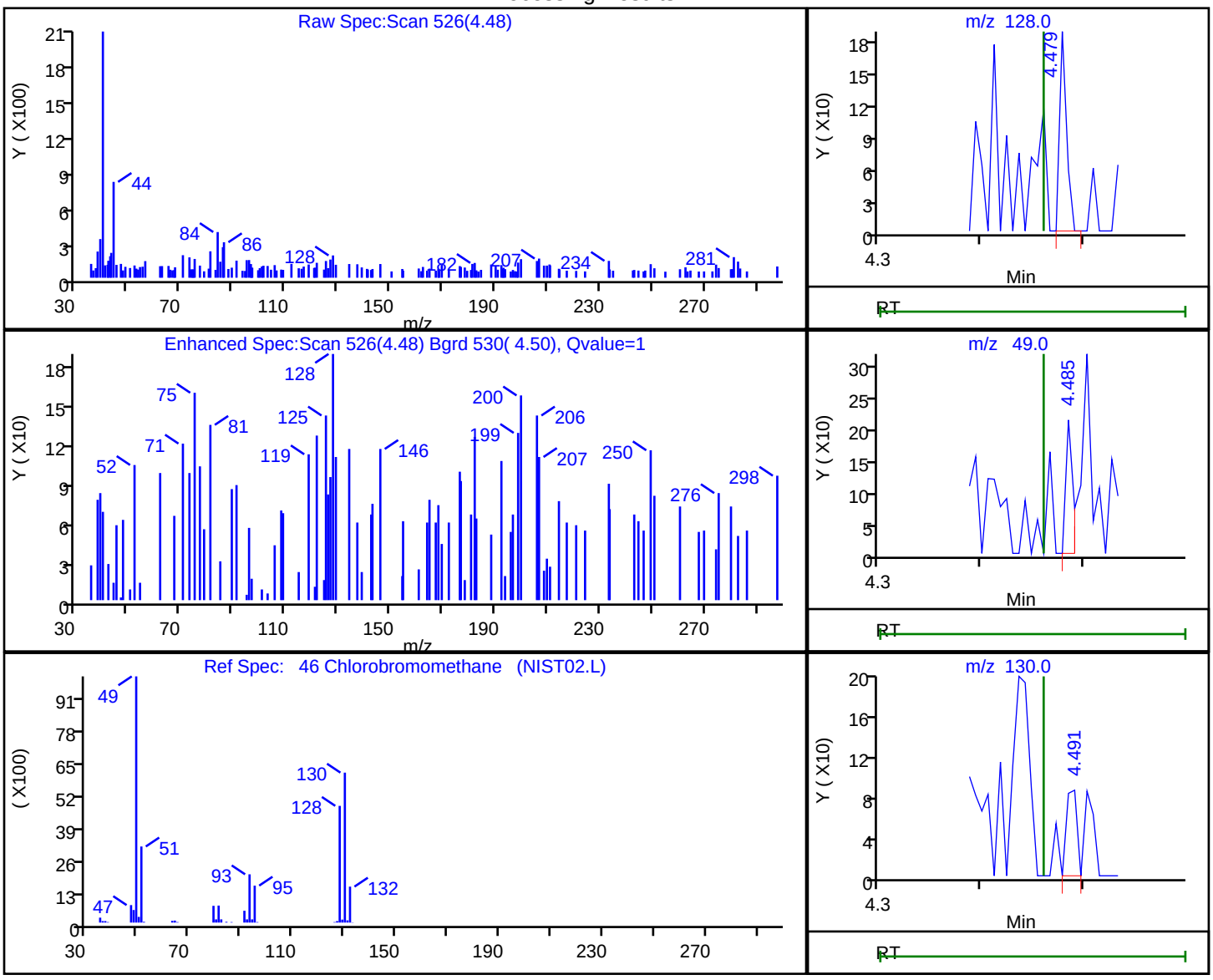
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

46 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
4.48	128.00	88	0.055987
4.49	49.00	104	
4.49	130.00	59	

Reviewer: delpolitov, 05-Jun-2018 13:01:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

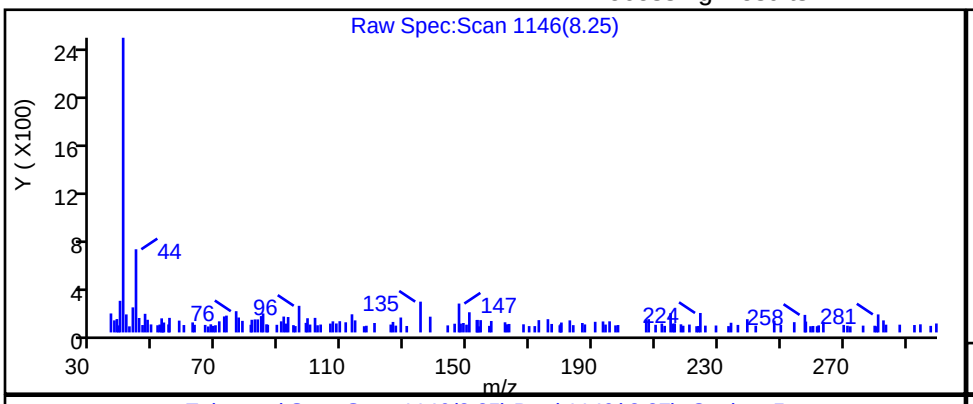
User Disabled Compound Report

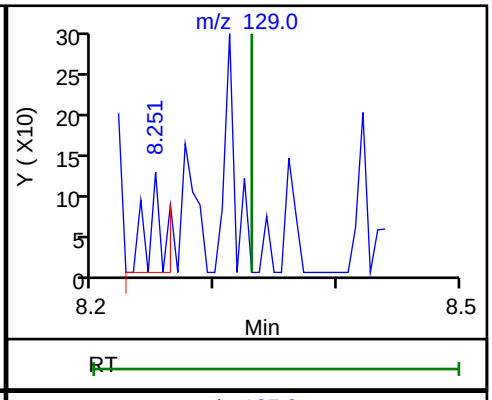
TestAmerica Edison

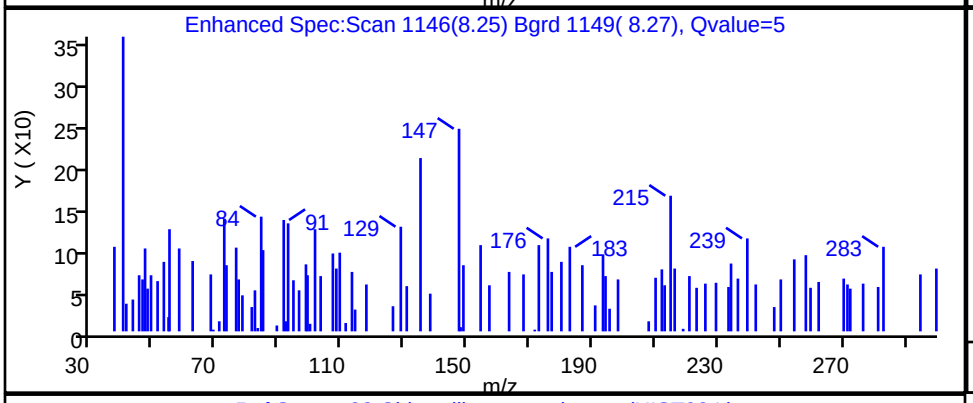
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

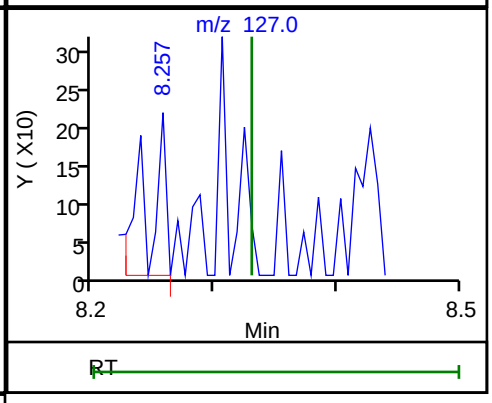
88 Chlorodibromomethane, CAS: 124-48-1

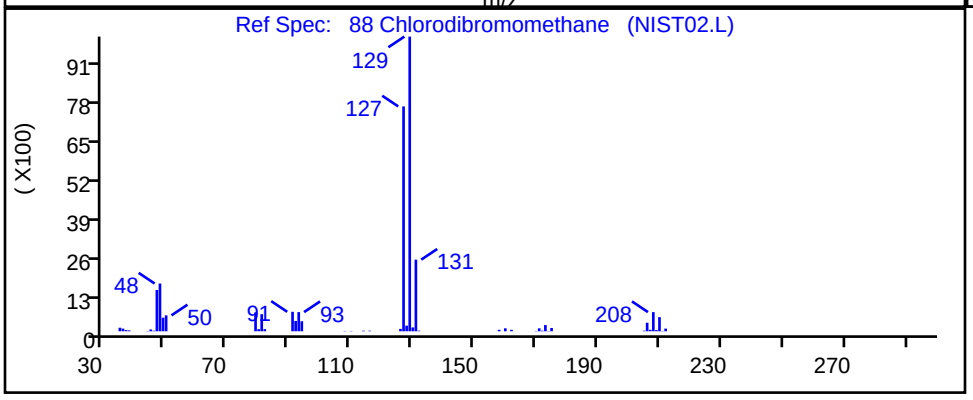
Processing Results











RT	Mass	Response	Amount
8.25	129.00	109	0.048757
8.26	127.00	214	

Reviewer: delpolitov, 05-Jun-2018 13:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

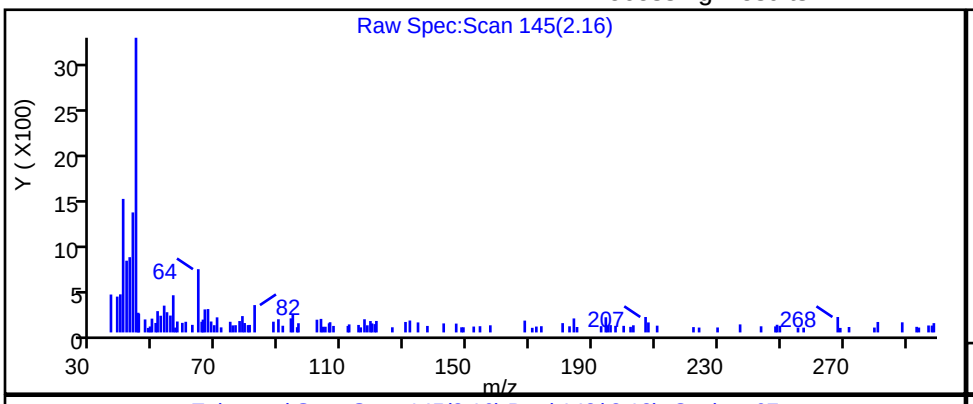
User Disabled Compound Report

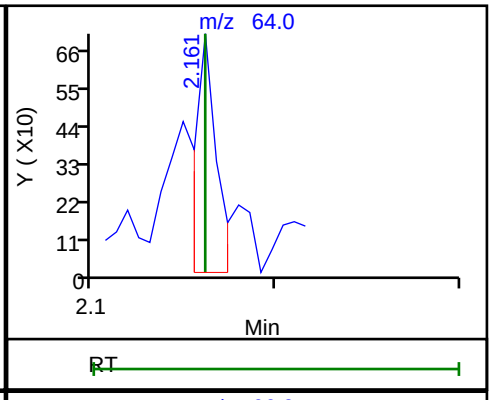
TestAmerica Edison

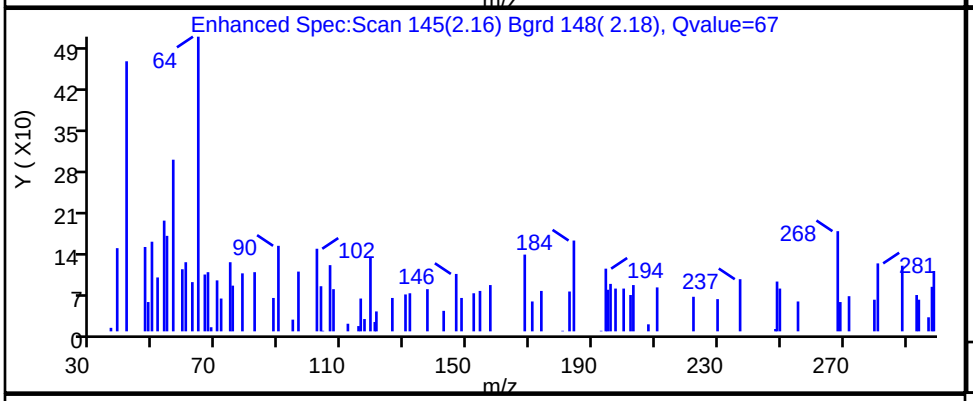
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

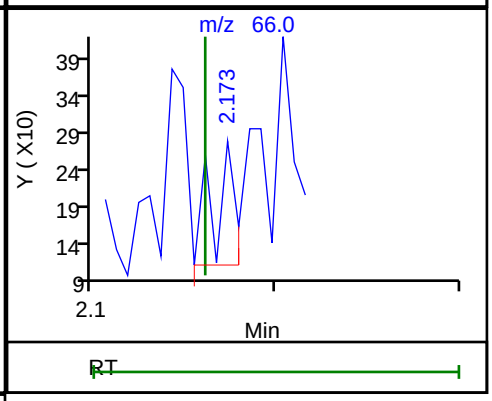
7 Chloroethane, CAS: 75-00-3

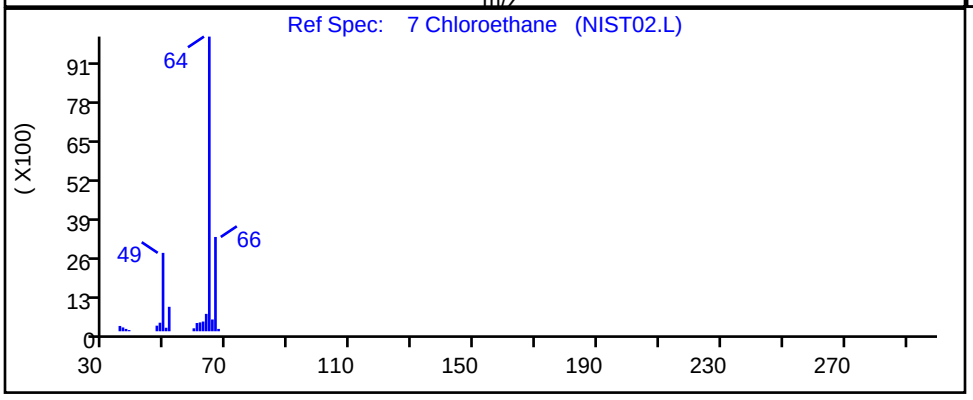
Processing Results











RT	Mass	Response	Amount
2.16	64.00	560	0.304525
2.17	66.00	136	

Reviewer: delpolitov, 05-Jun-2018 13:00:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

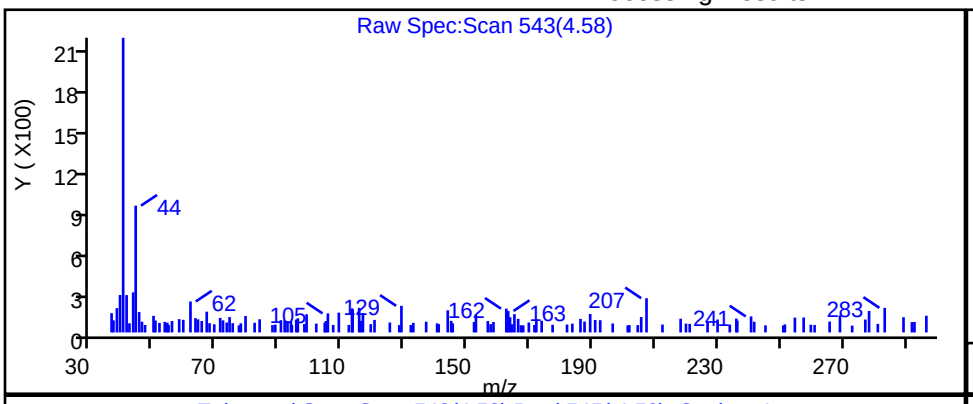
User Disabled Compound Report

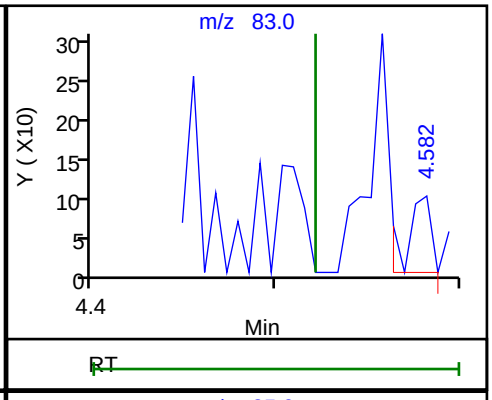
TestAmerica Edison

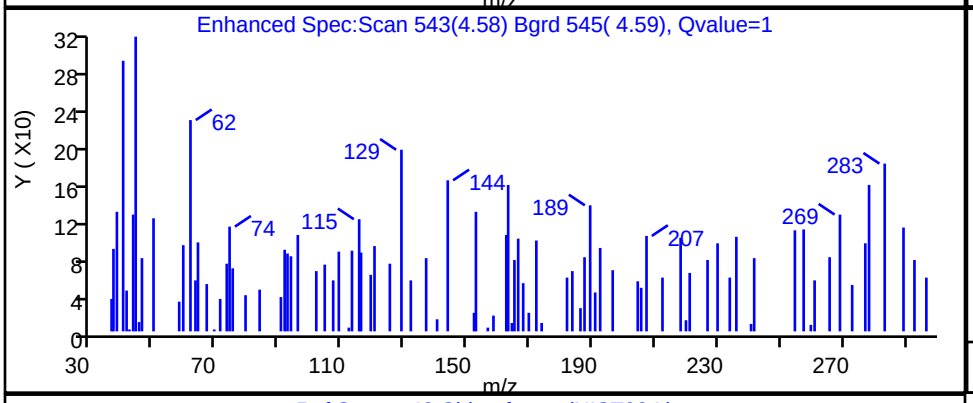
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

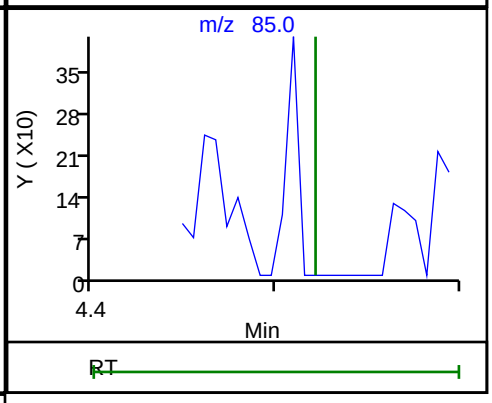
48 Chloroform, CAS: 67-66-3

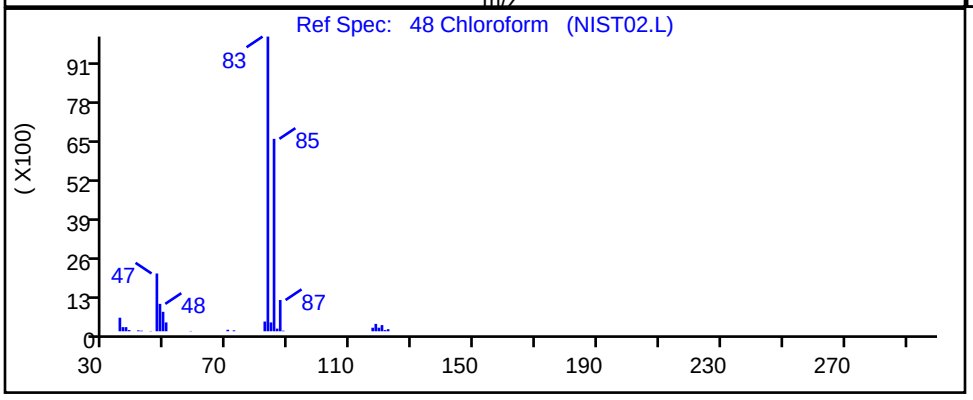
Processing Results











RT	Mass	Response	Amount
4.58	83.00	89	0.018207
4.59	85.00	259	

Reviewer: delpolitov, 05-Jun-2018 13:01:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

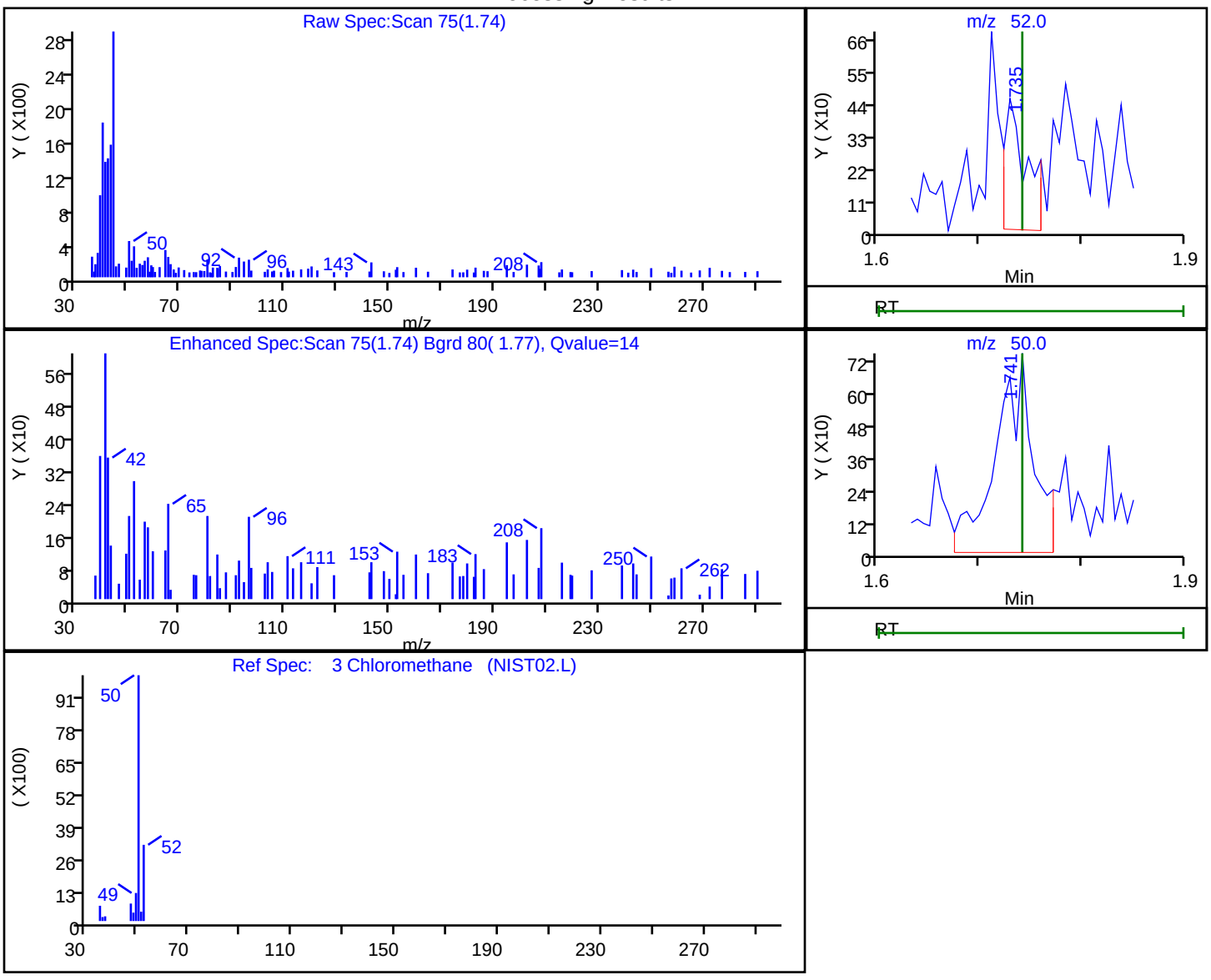
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.74	52.00	702	0.496807
1.74	50.00	1943	

Reviewer: delpolitov, 05-Jun-2018 13:00:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

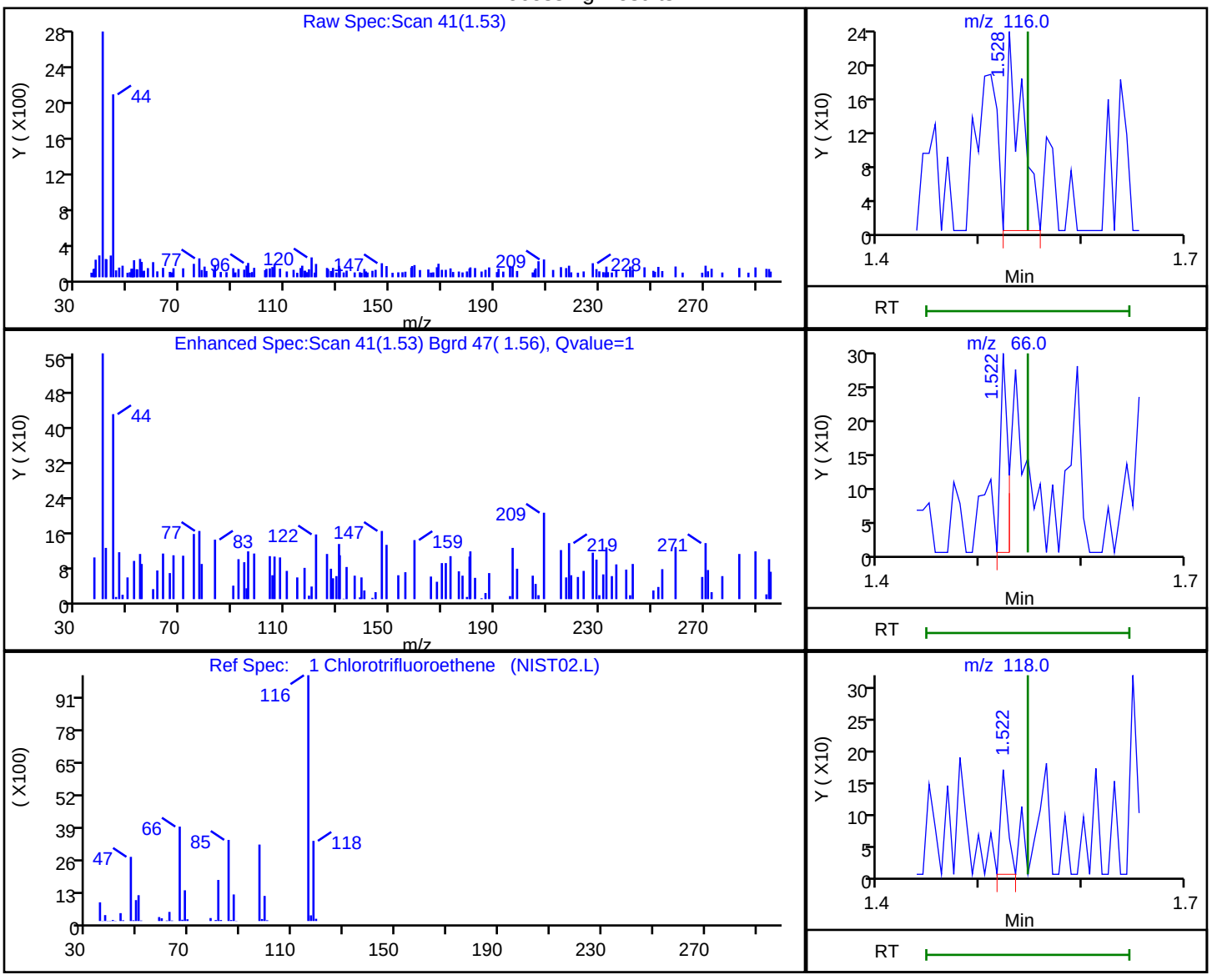
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Processing Results



RT	Mass	Response	Amount
1.53	116.00	234	0.087361
1.52	66.00	150	
1.52	118.00	81	

Reviewer: delpolitov, 05-Jun-2018 13:00:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

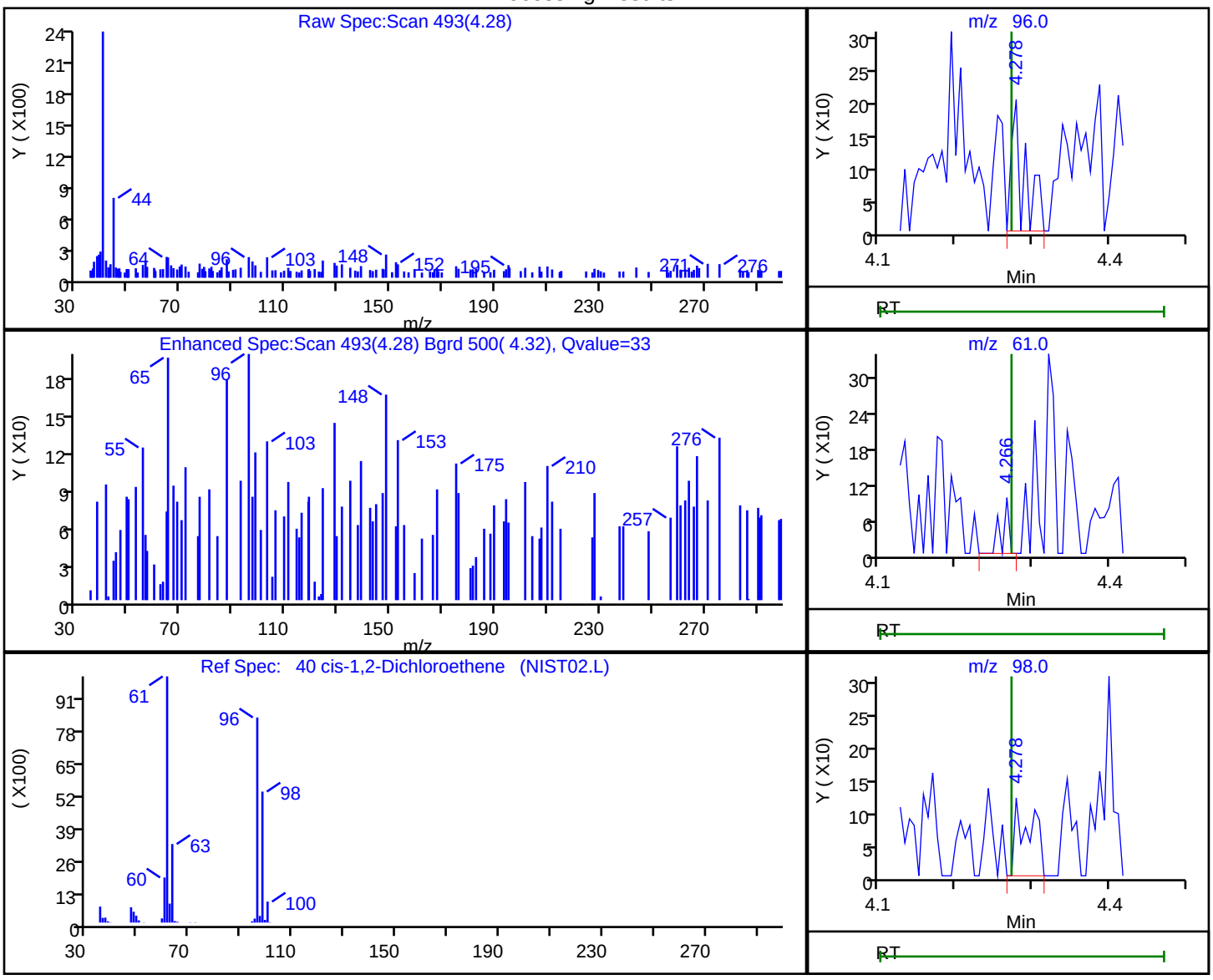
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

40 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
4.28	96.00	232	0.068047
4.27	61.00	57	
4.28	98.00	177	

Reviewer: delpolitov, 05-Jun-2018 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

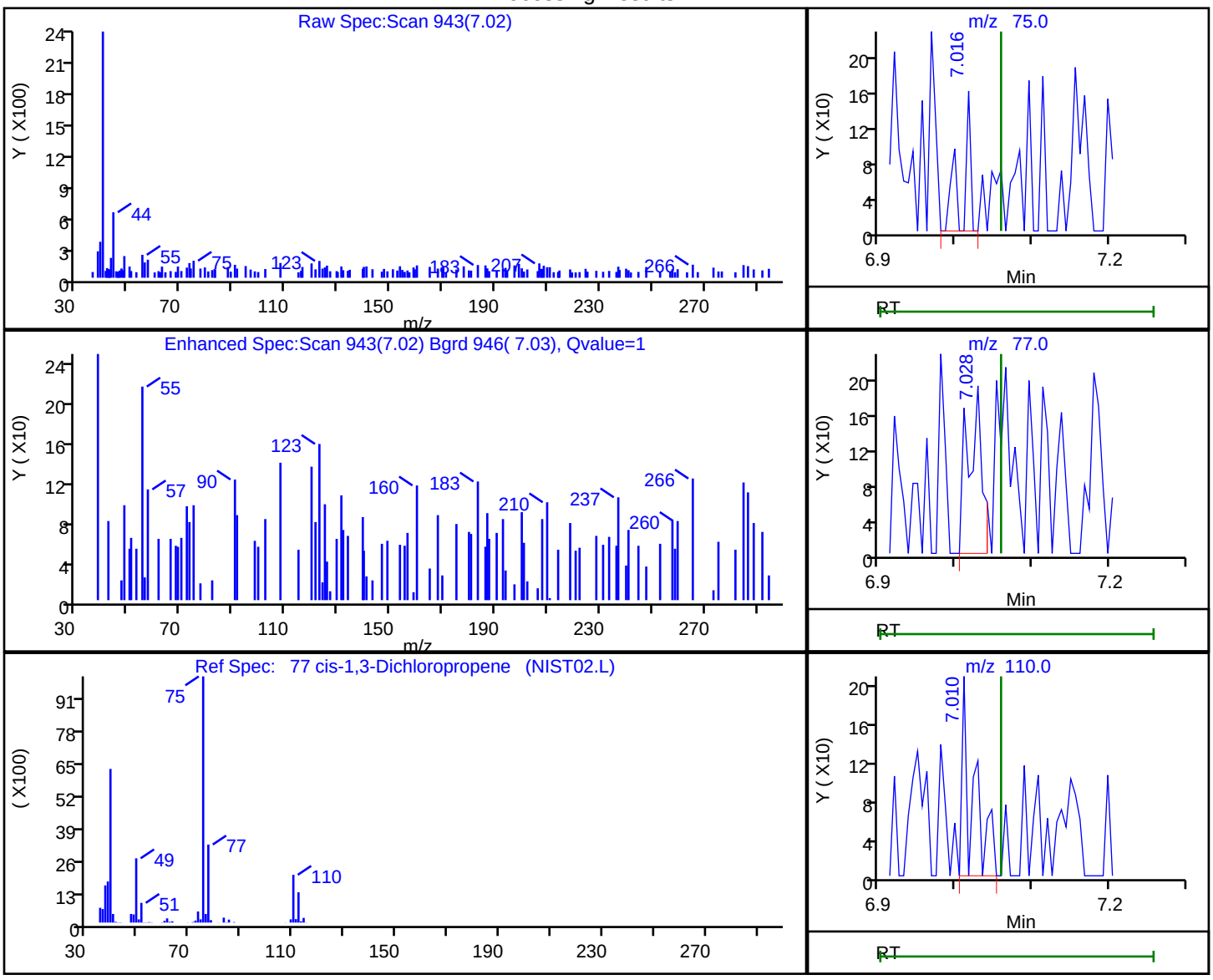
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

77 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
7.02	75.00	112	0.028403
7.03	77.00	241	
7.01	110.00	204	

Reviewer: delpolitov, 05-Jun-2018 13:01:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

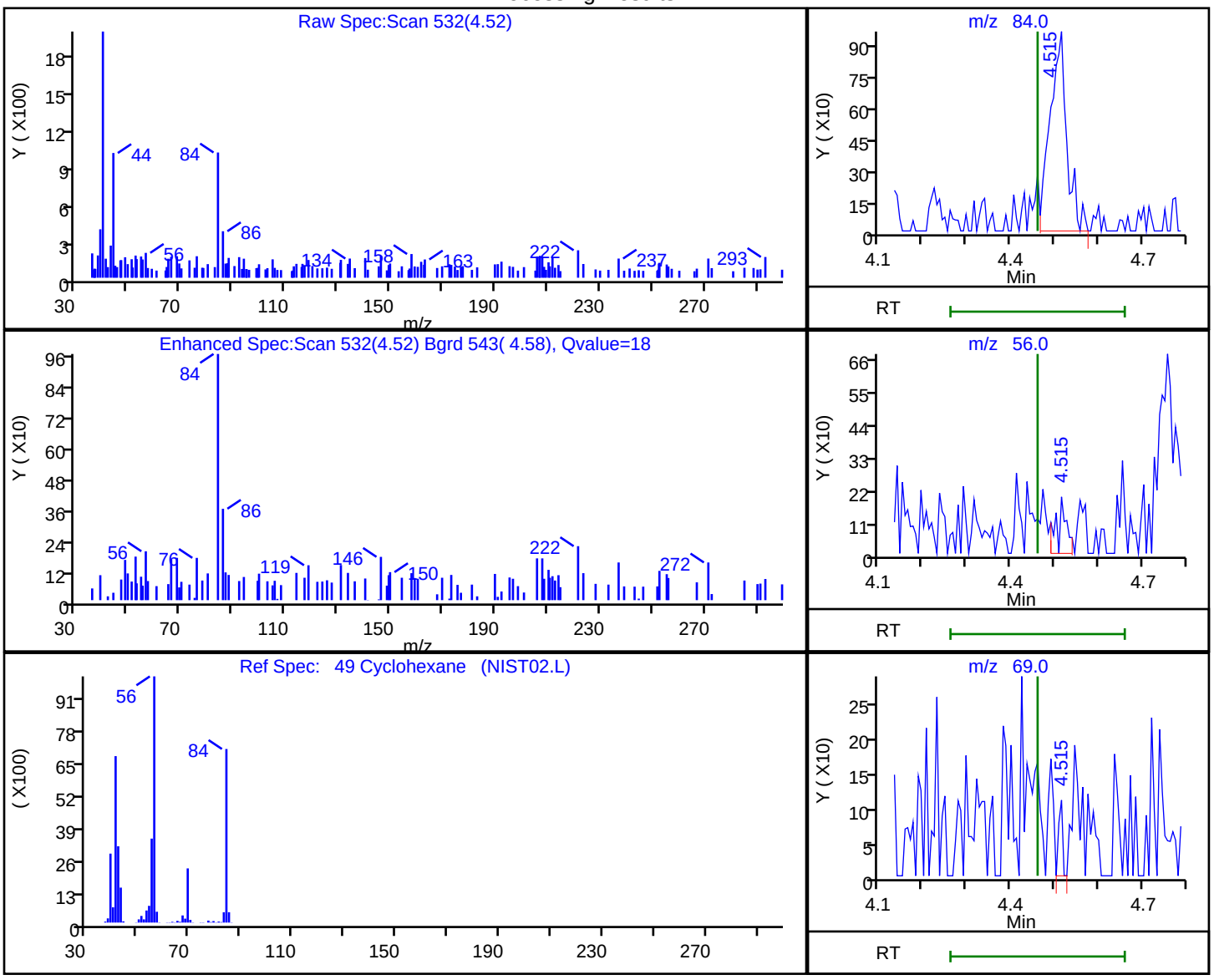
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.52	84.00	2566	0.439314
4.52	56.00	301	
4.52	69.00	68	

Reviewer: delpolitov, 05-Jun-2018 13:01:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

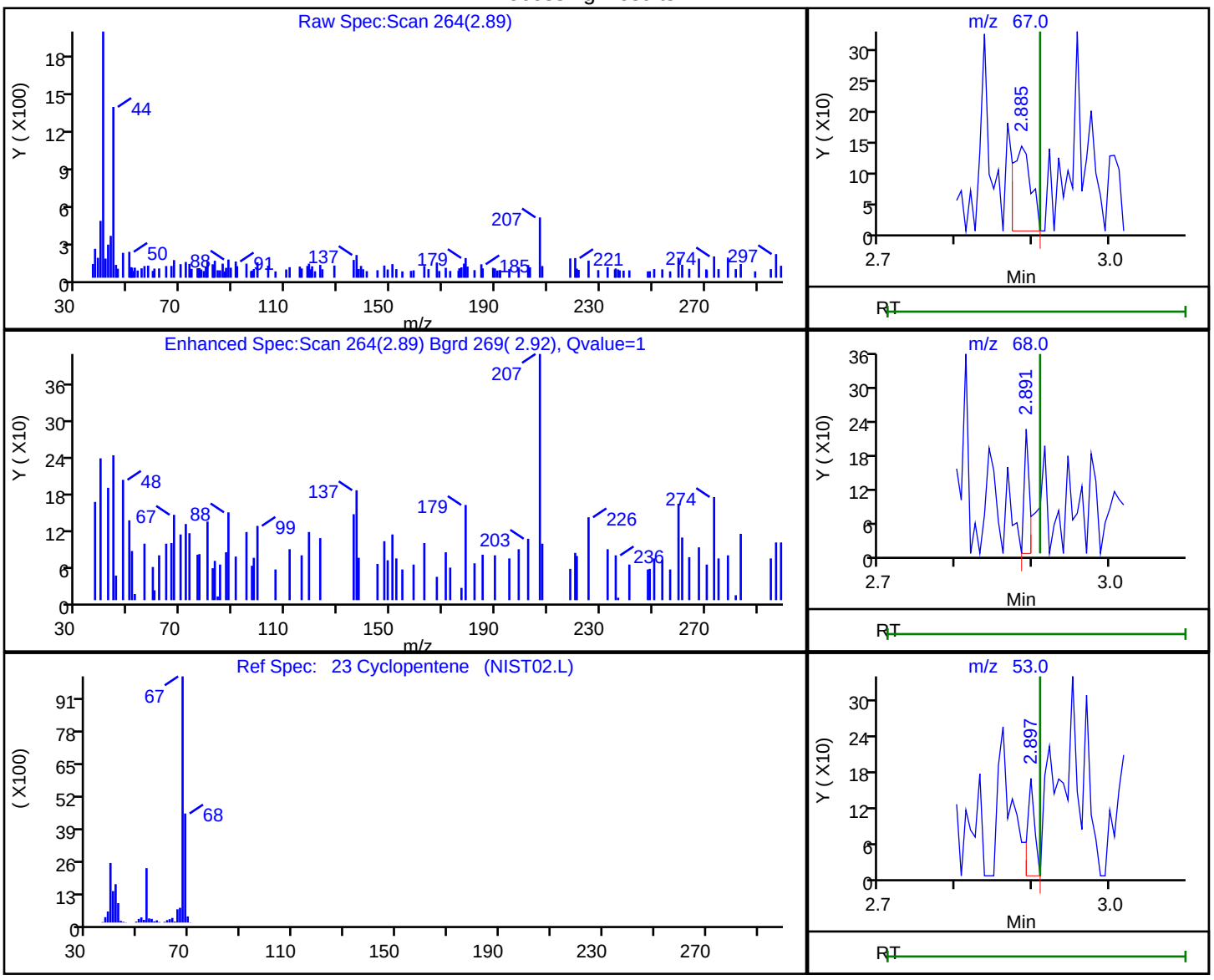
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
2.89	67.00	227	0.033186
2.89	68.00	105	
2.90	53.00	107	

Reviewer: delpolitov, 05-Jun-2018 13:00:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

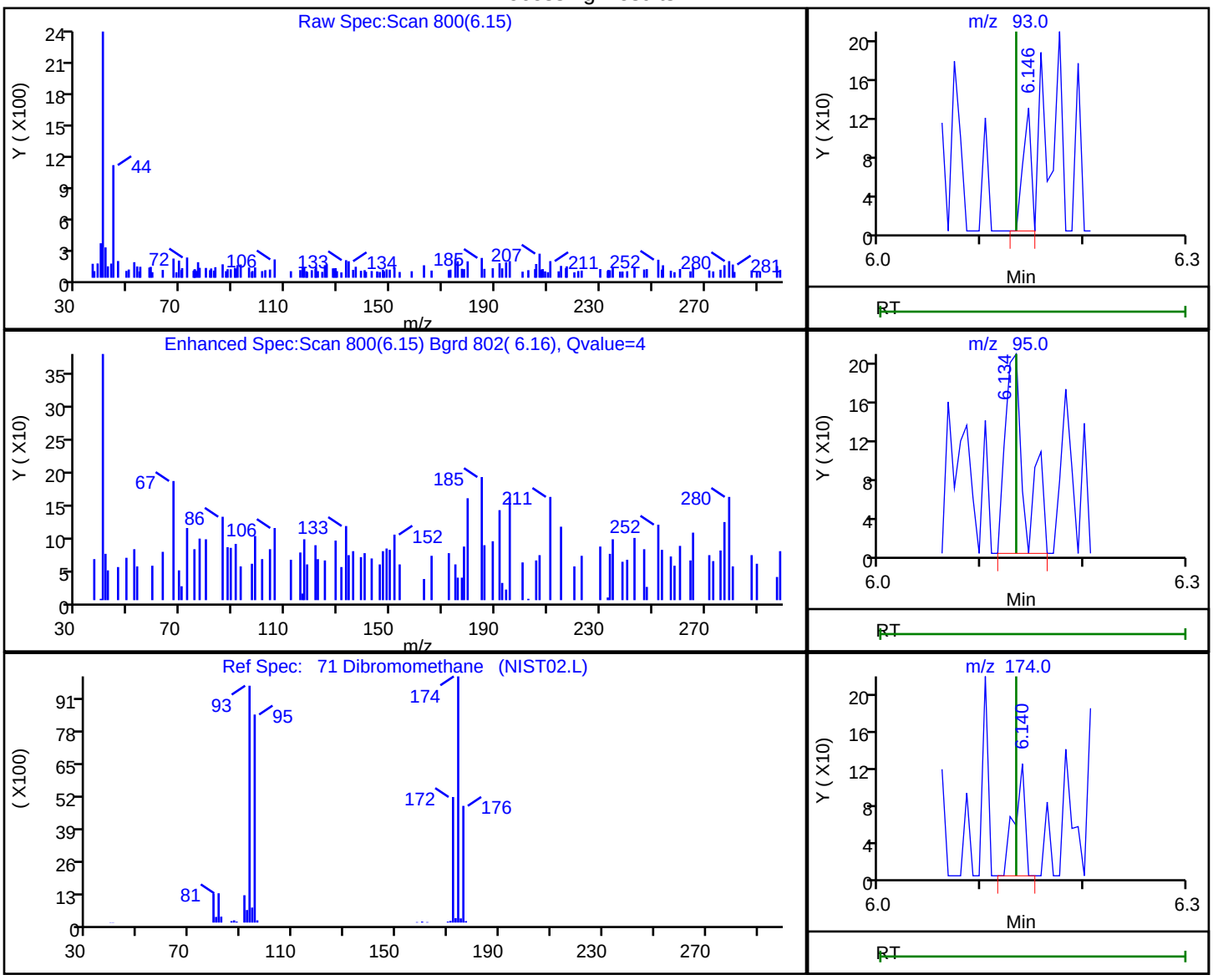
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

71 Dibromomethane, CAS: 74-95-3

Processing Results



RT	Mass	Response	Amount
6.15	93.00	69	0.046164
6.13	95.00	278	
6.14	174.00	89	

Reviewer: delpolitov, 05-Jun-2018 13:01:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

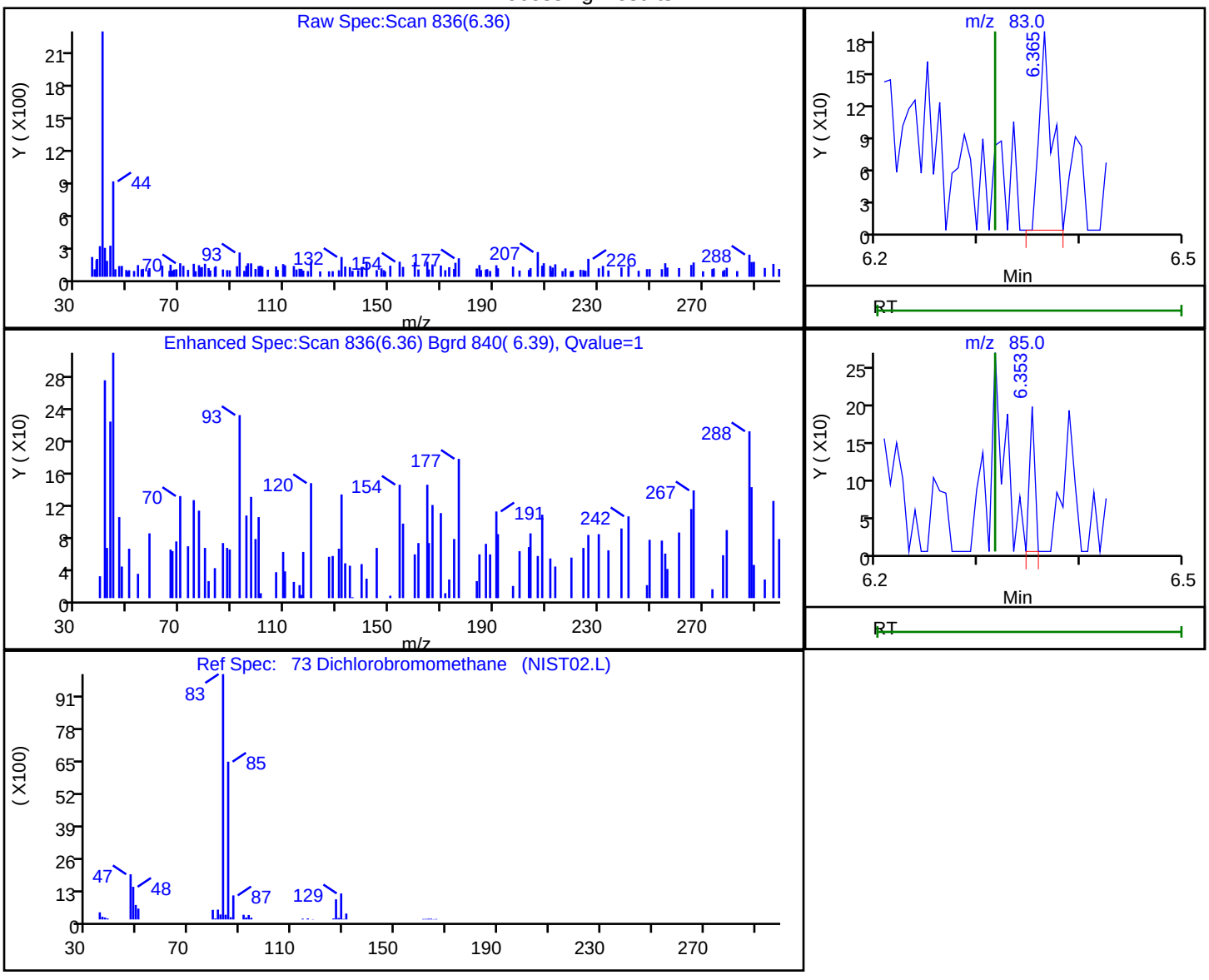
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

73 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
6.36	83.00	160	0.050269
6.35	85.00	72	

Reviewer: delpolitov, 05-Jun-2018 13:01:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

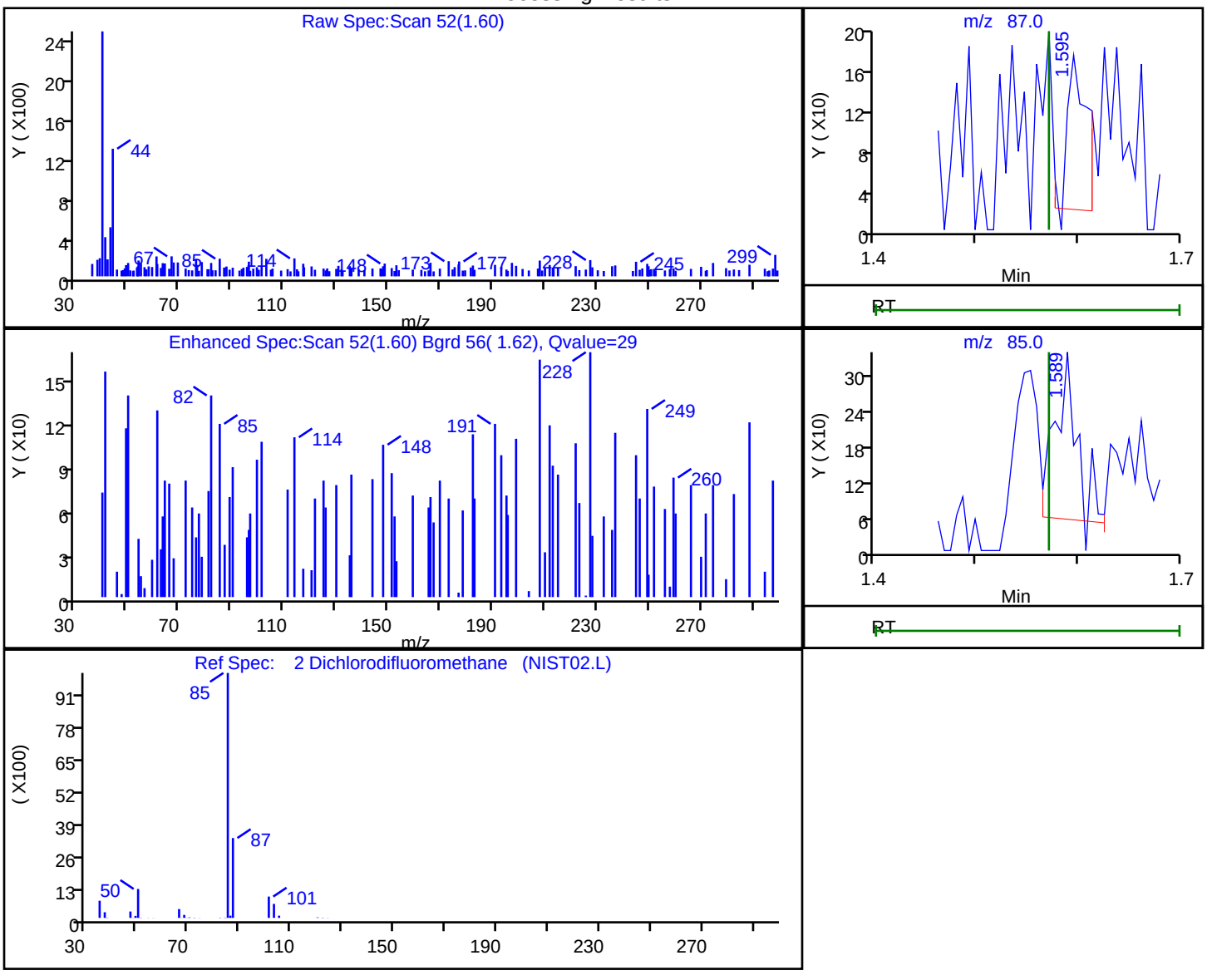
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.60	87.00	210	0.138688
1.59	85.00	424	

Reviewer: delpolitov, 05-Jun-2018 13:00:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

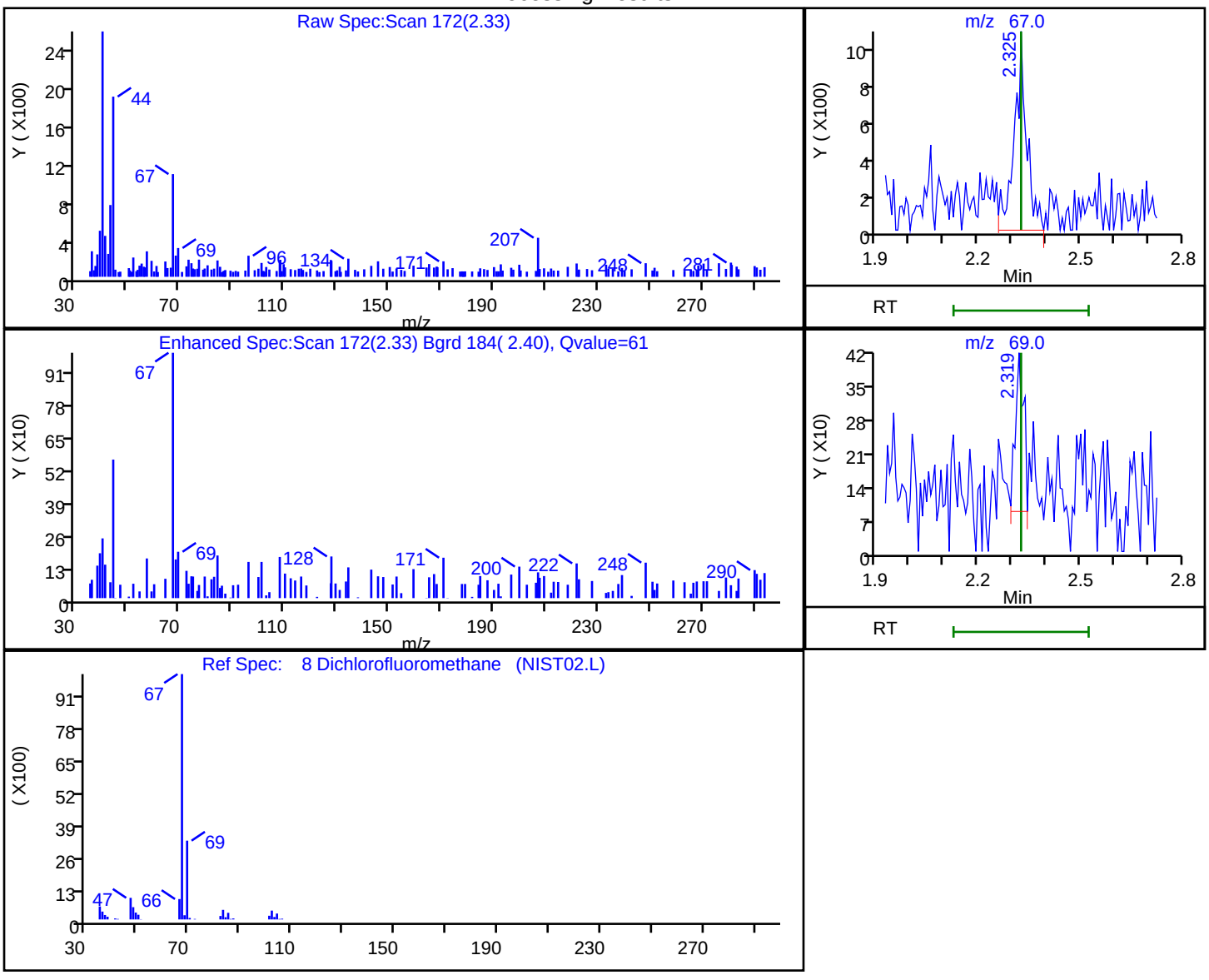
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.33	67.00	2729	0.481348
2.32	69.00	564	

Reviewer: delpolitov, 05-Jun-2018 13:00:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

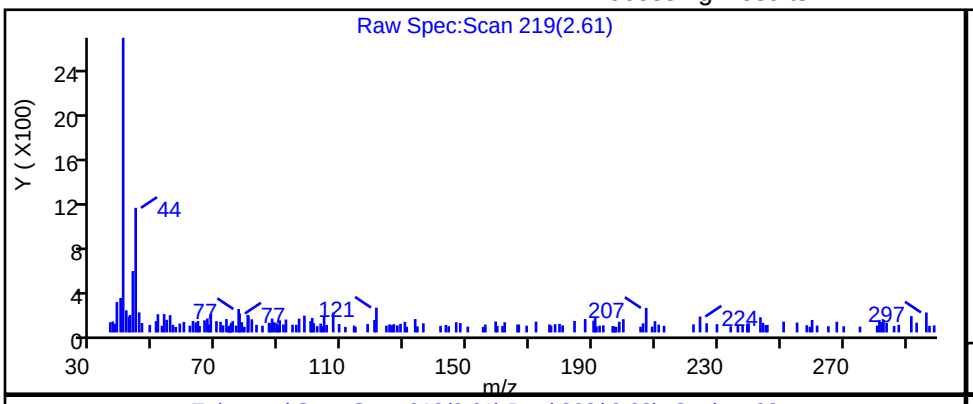
User Disabled Compound Report

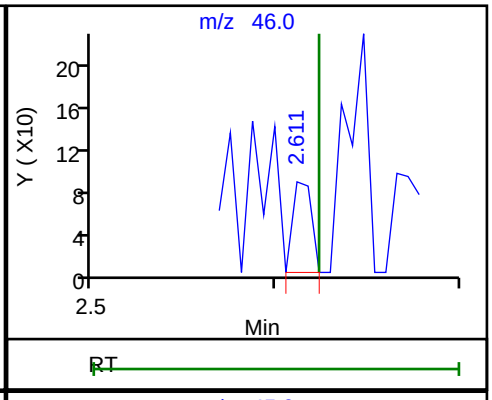
TestAmerica Edison

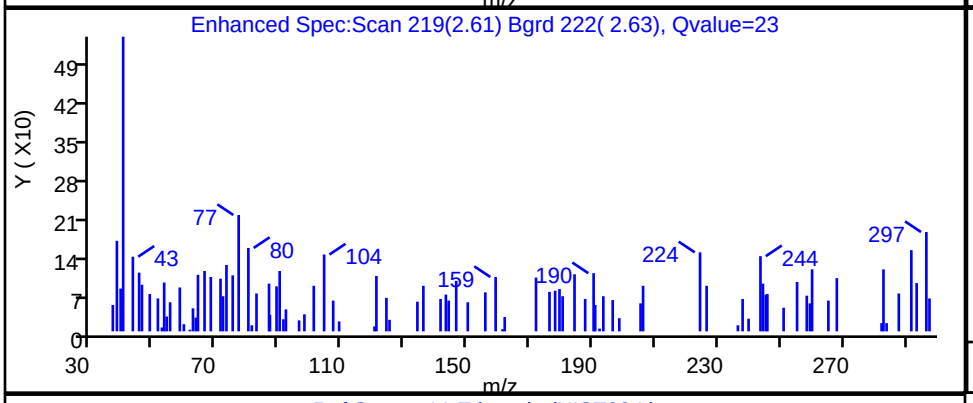
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

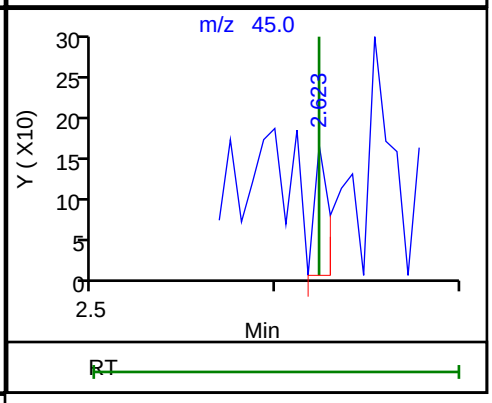
11 Ethanol, CAS: 64-17-5

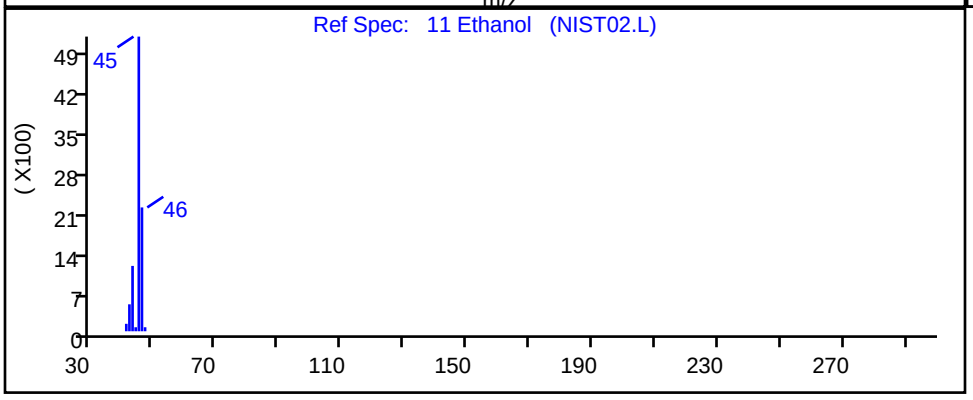
Processing Results











RT	Mass	Response	Amount
2.61	46.00	61	7.683859
2.62	45.00	87	

Reviewer: delpolitov, 05-Jun-2018 13:00:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

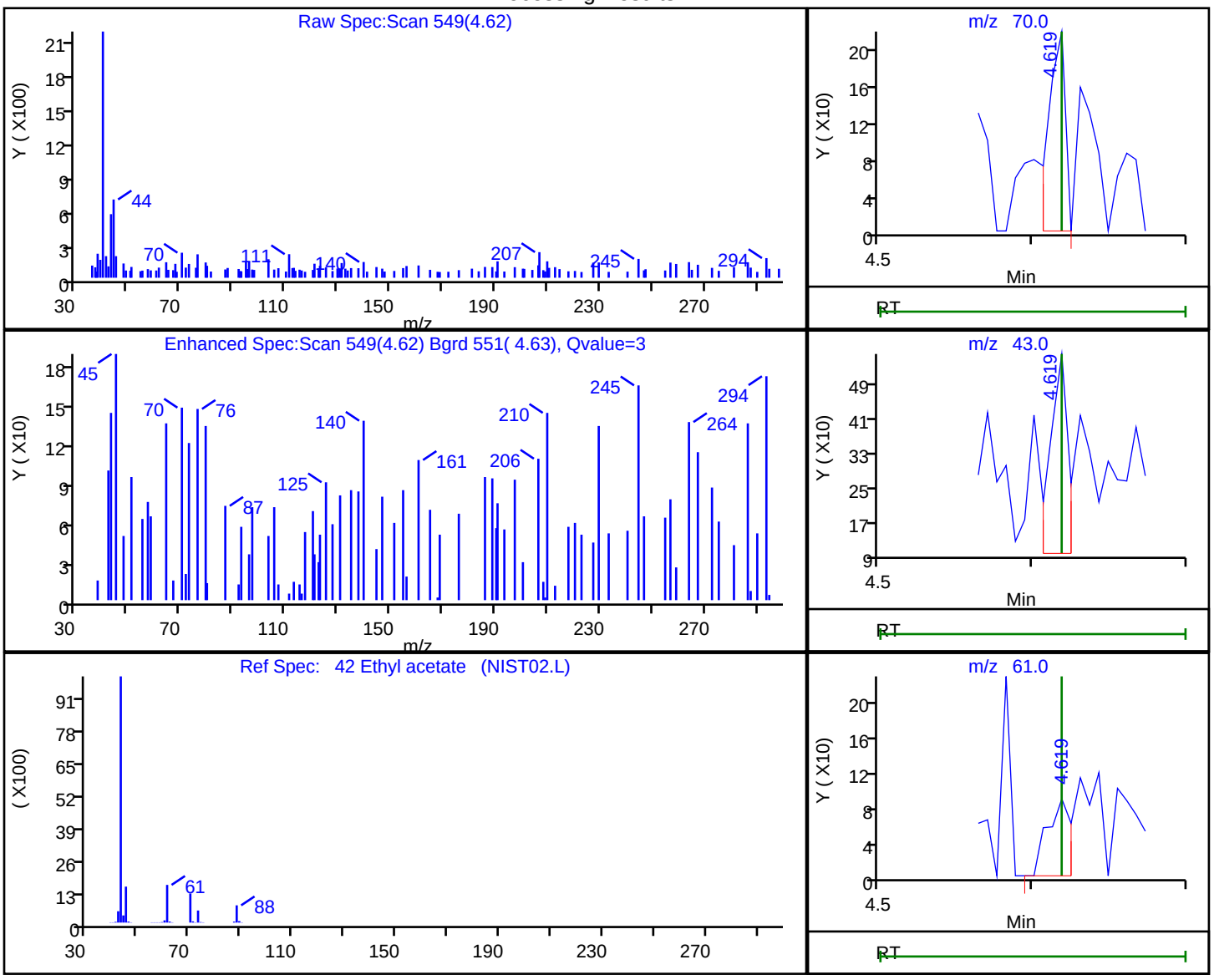
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.62	70.00	166	0.698278
4.62	43.00	381	
4.62	61.00	95	

Reviewer: delpolitov, 05-Jun-2018 13:01:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

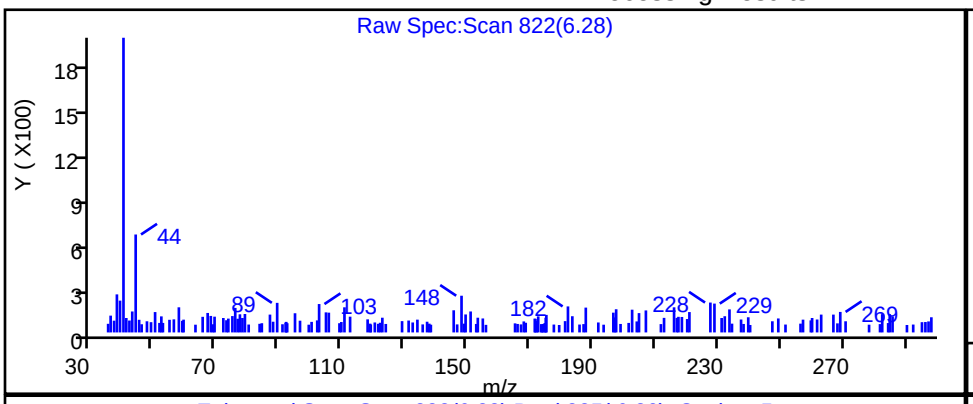
User Disabled Compound Report

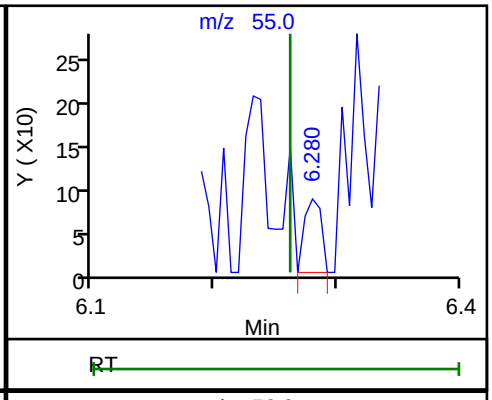
TestAmerica Edison

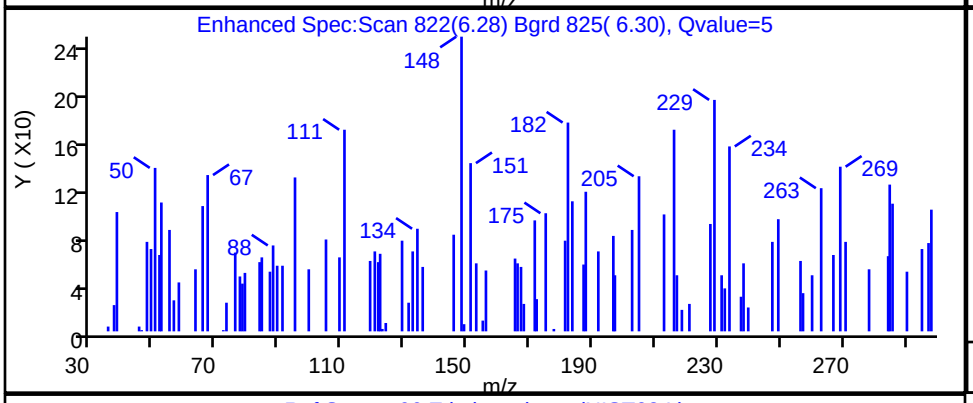
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

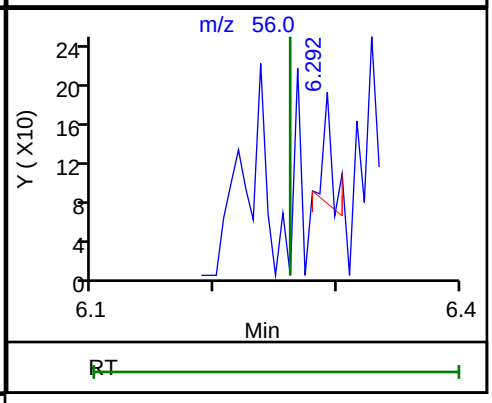
66 Ethyl acrylate, CAS: 140-88-5

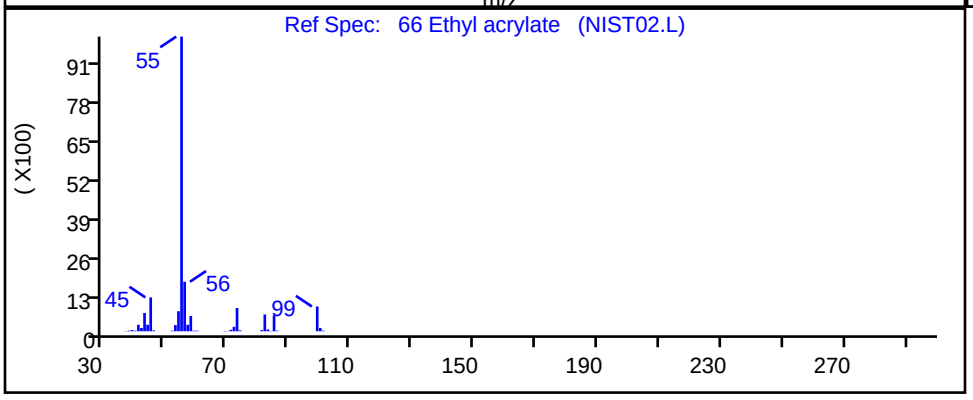
Processing Results











RT	Mass	Response	Amount
6.28	55.00	82	0.031739
6.29	56.00	57	

Reviewer: delpolitov, 05-Jun-2018 13:01:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

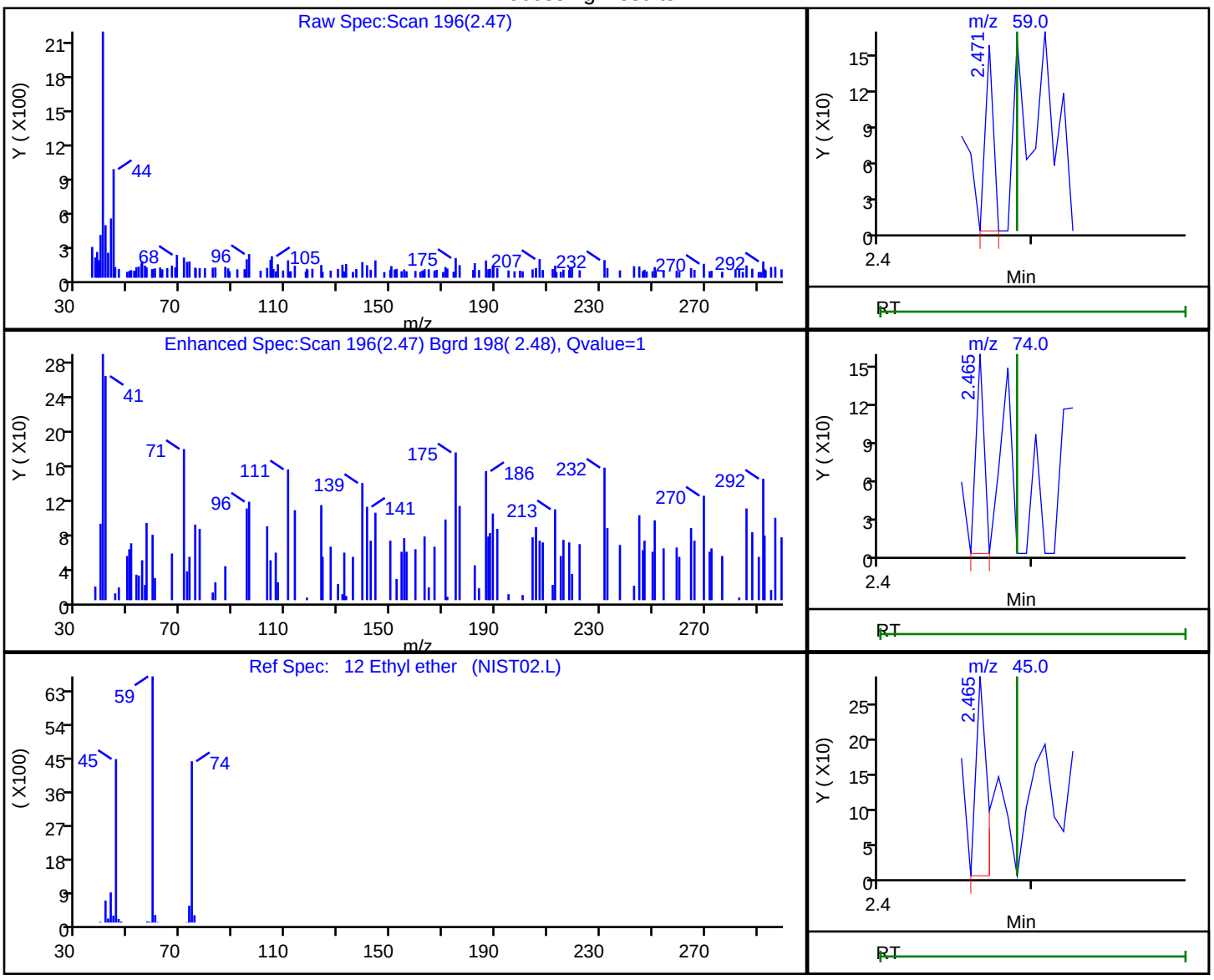
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethyl ether, CAS: 60-29-7

Processing Results



RT	Mass	Response	Amount
2.47	59.00	55	0.025716
2.47	74.00	58	
2.47	45.00	139	

Reviewer: delpolitov, 05-Jun-2018 13:00:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

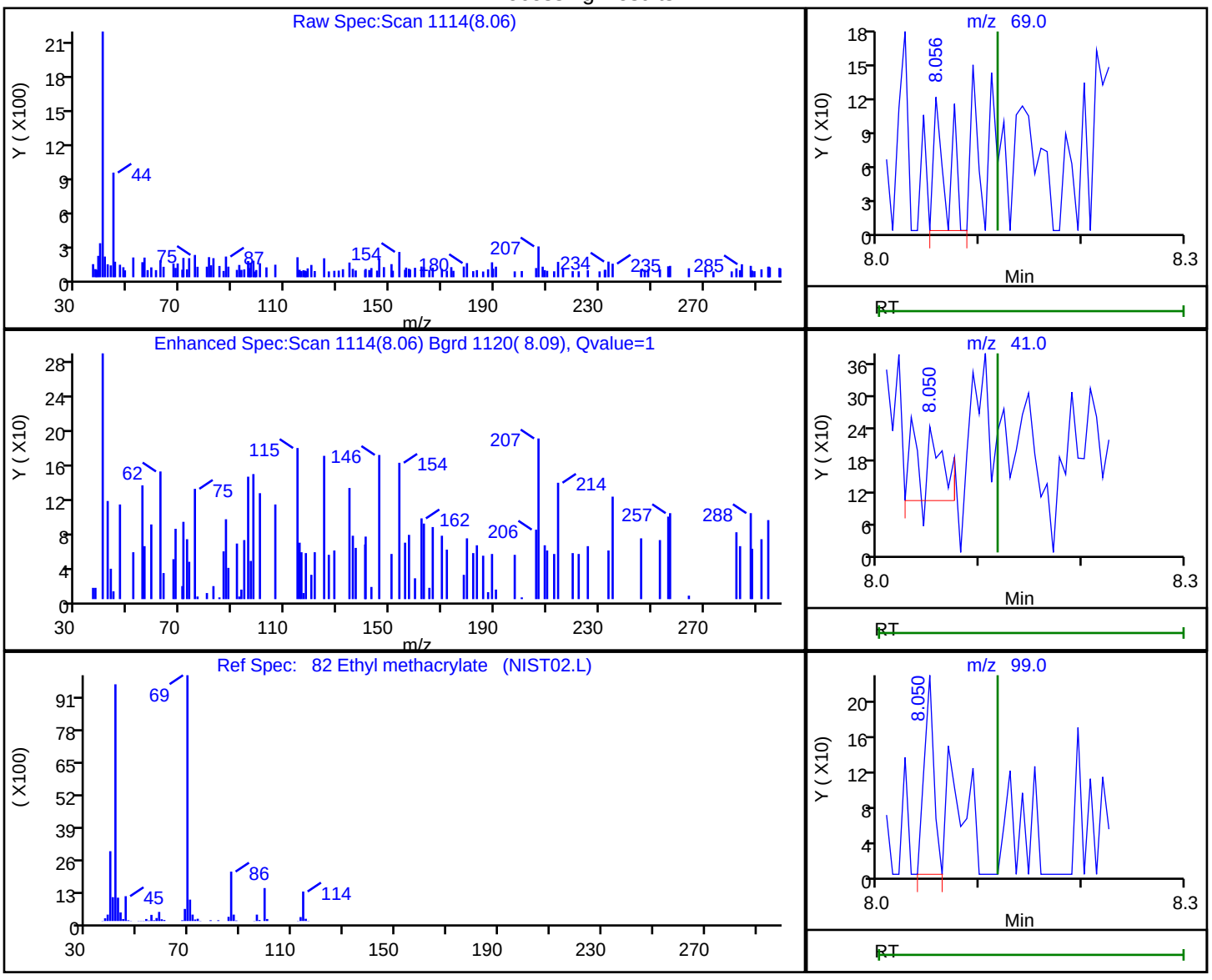
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 Ethyl methacrylate, CAS: 97-63-2

Processing Results



RT	Mass	Response	Amount
8.06	69.00	106	0.035218
8.05	41.00	230	
8.05	99.00	147	

Reviewer: delpolitov, 05-Jun-2018 13:01:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

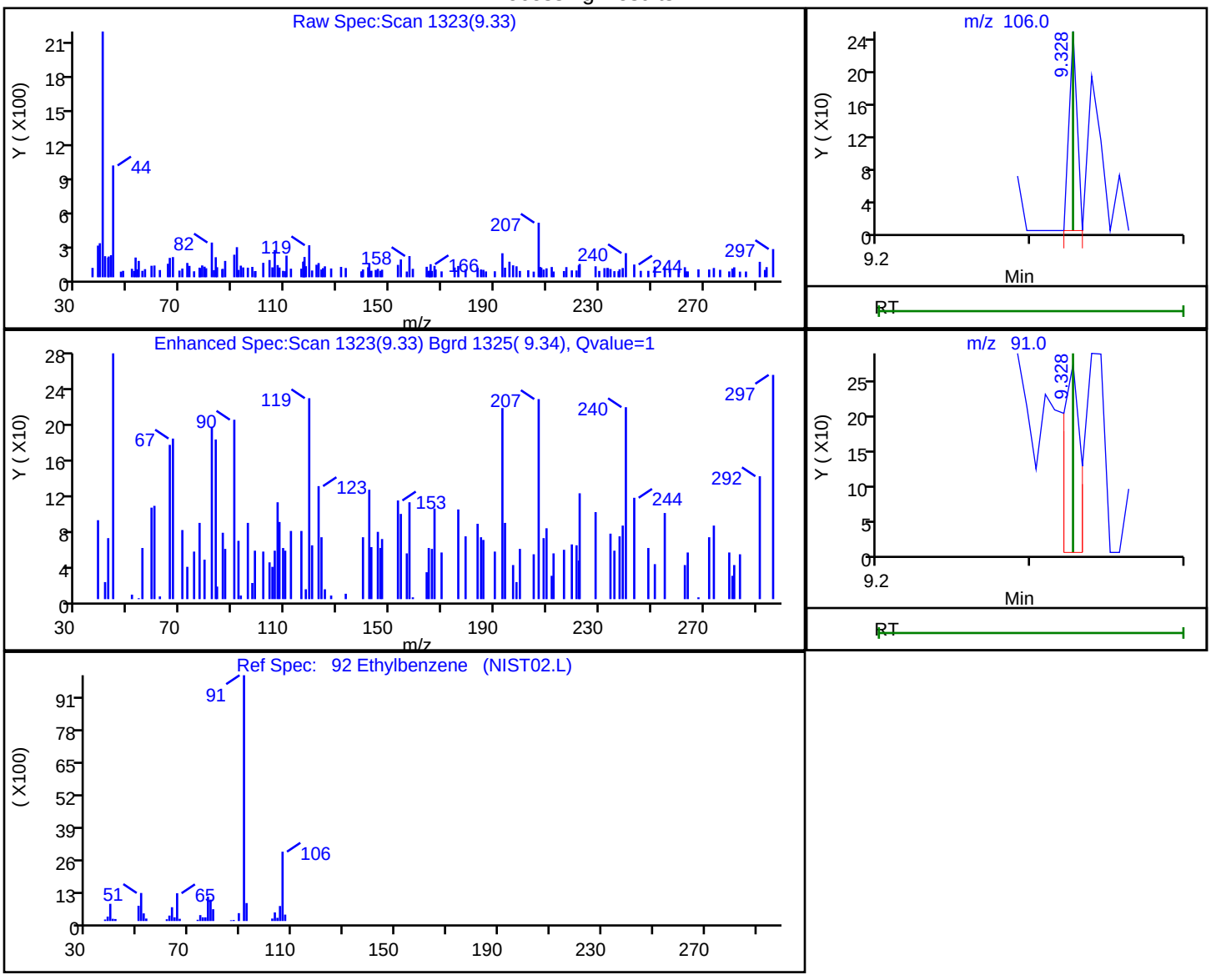
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.33	106.00	88	0.018752
9.33	91.00	214	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

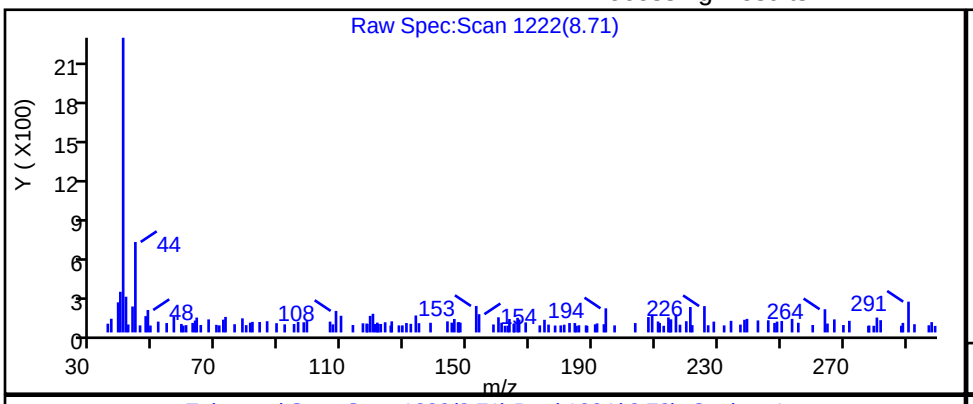
User Disabled Compound Report

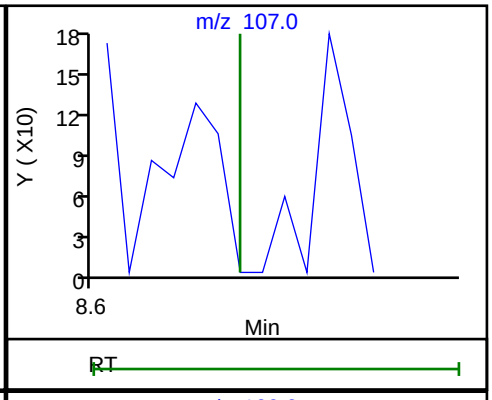
TestAmerica Edison

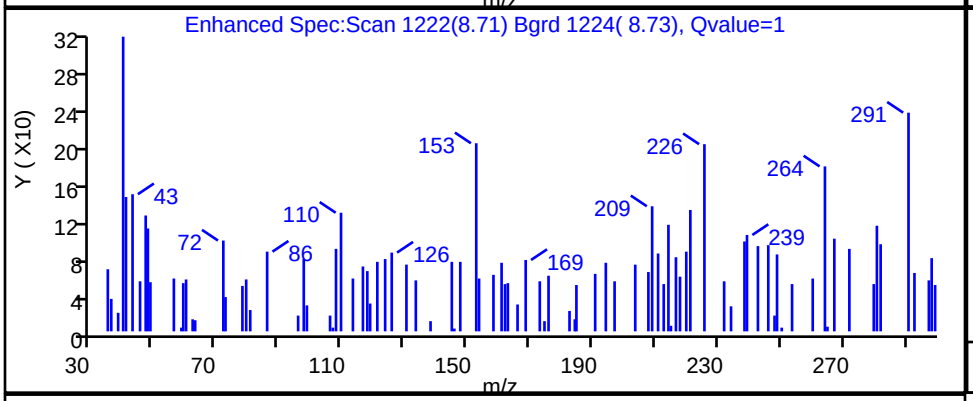
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

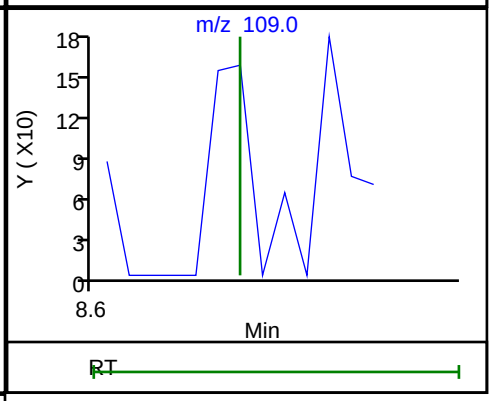
89 Ethylene Dibromide, CAS: 106-93-4

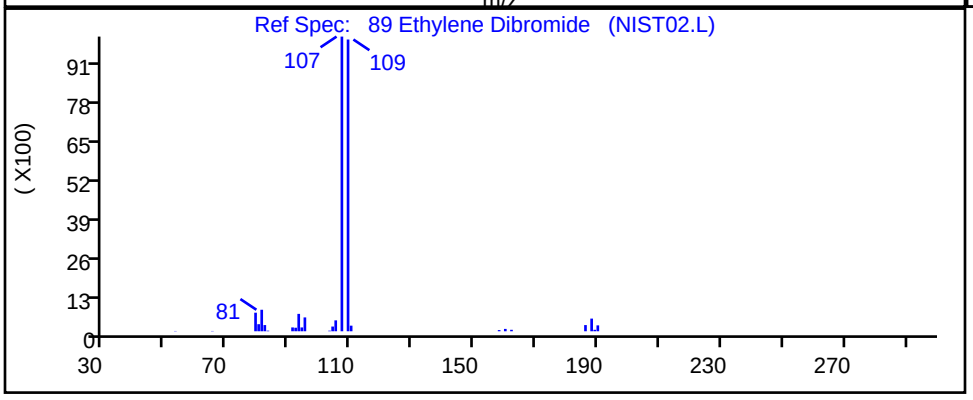
Processing Results











RT	Mass	Response	Amount
8.71	107.00	23	0.010339
8.72	109.00	120	

Reviewer: delpolitov, 05-Jun-2018 13:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

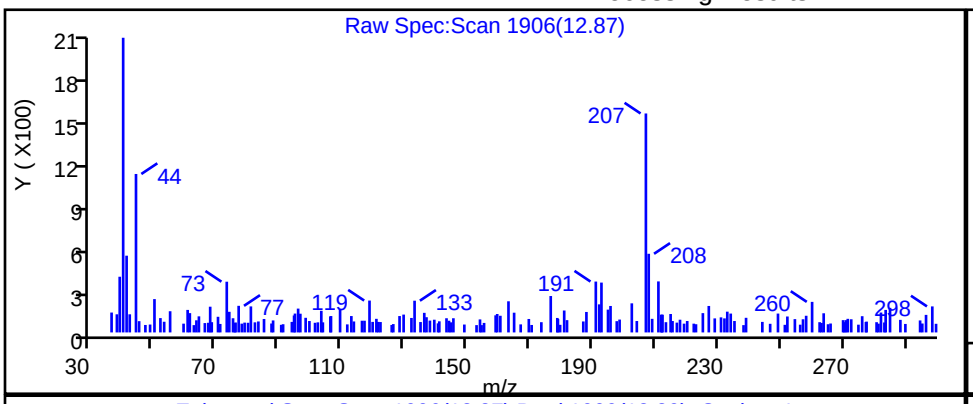
User Disabled Compound Report

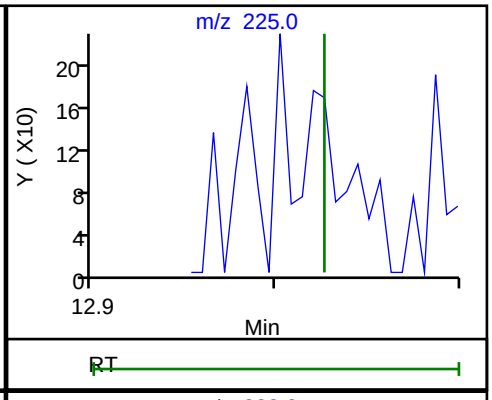
TestAmerica Edison

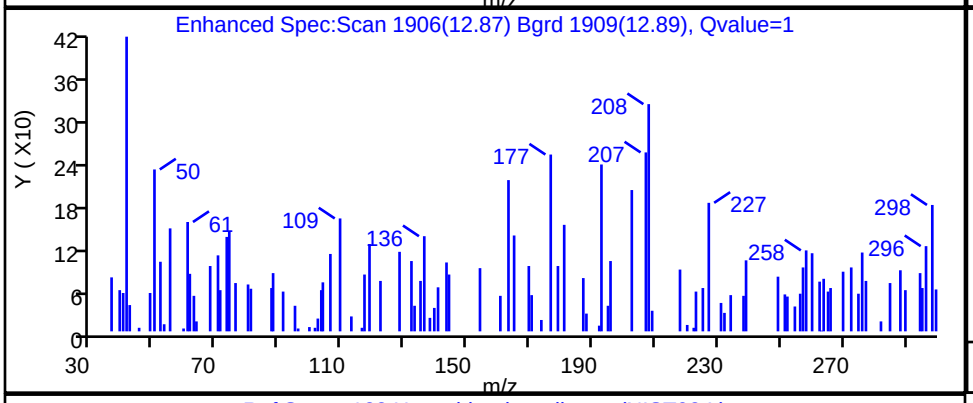
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

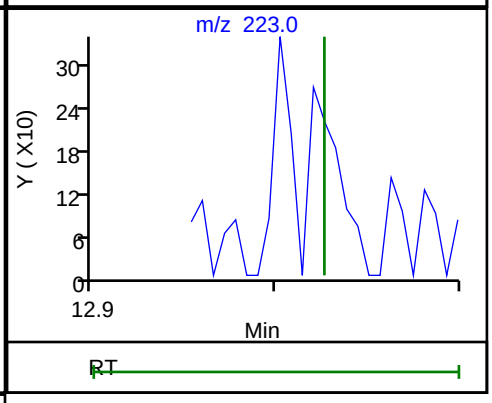
128 Hexachlorobutadiene, CAS: 87-68-3

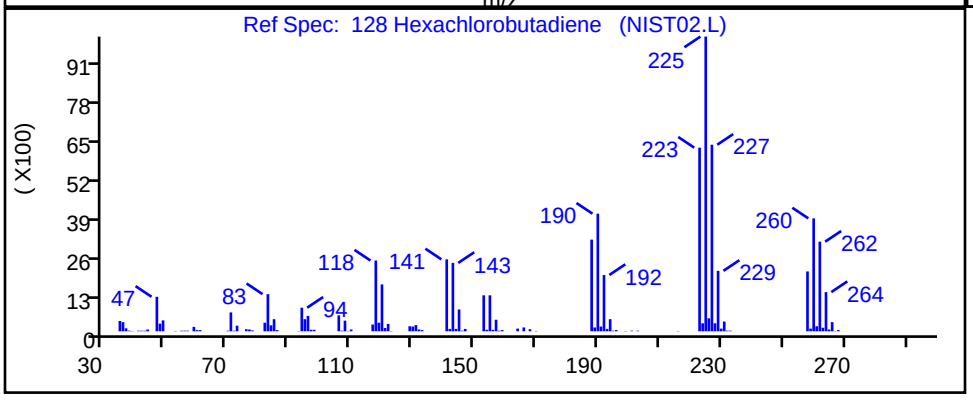
Processing Results











RT	Mass	Response	Amount
12.87	225.00	68	0.037561
12.89	223.00	105	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

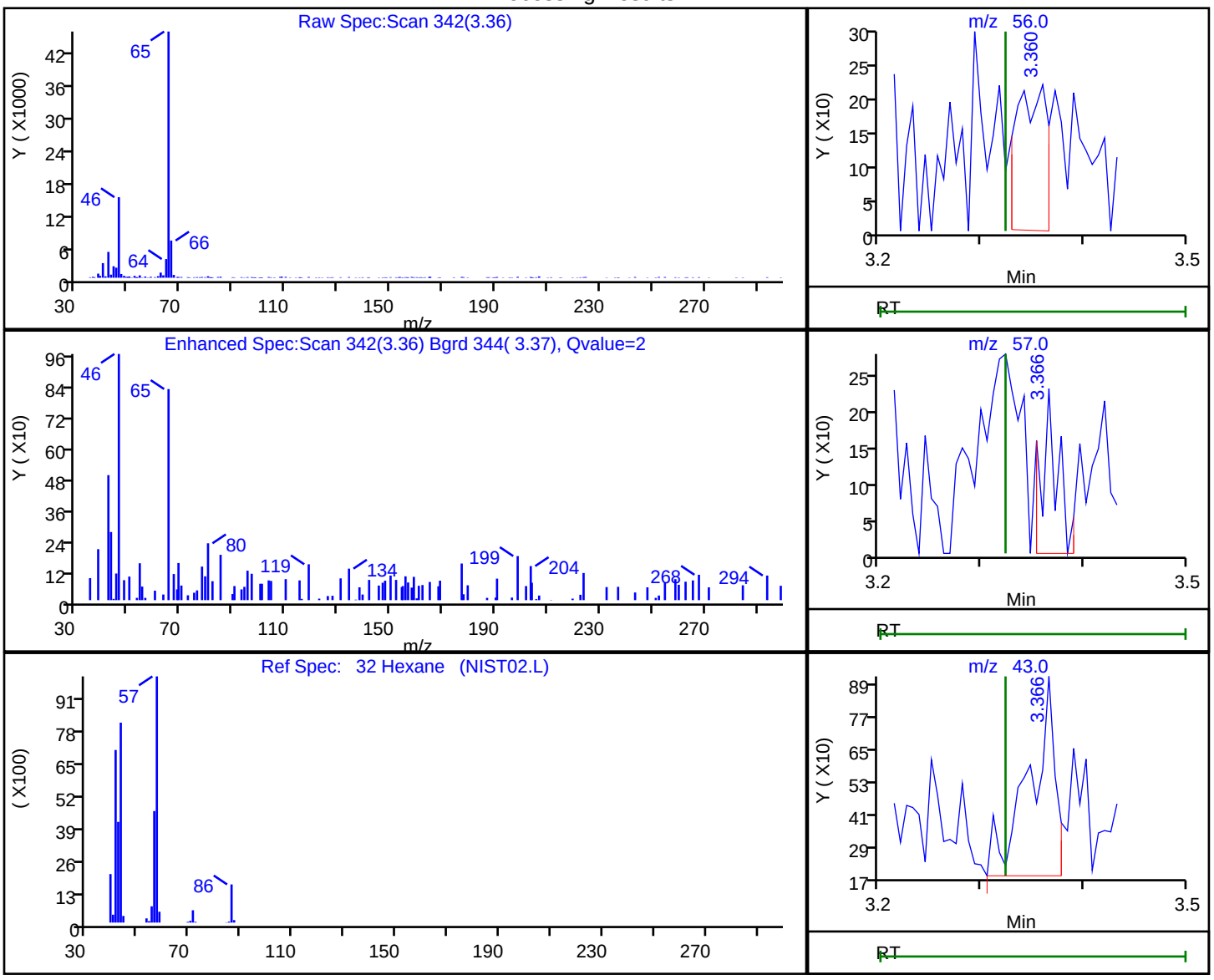
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
3.36	56.00	462	0.192473
3.37	57.00	258	
3.37	43.00	1317	
3.37	86.00	136	

Reviewer: delpolitov, 05-Jun-2018 13:00:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

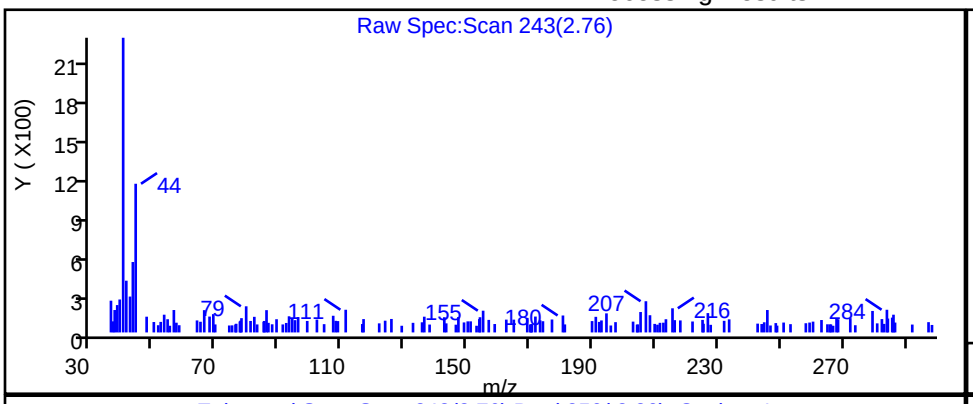
User Disabled Compound Report

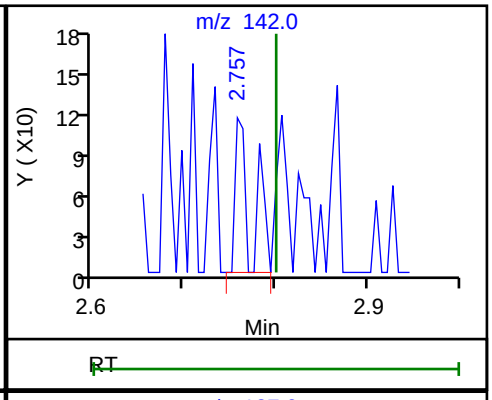
TestAmerica Edison

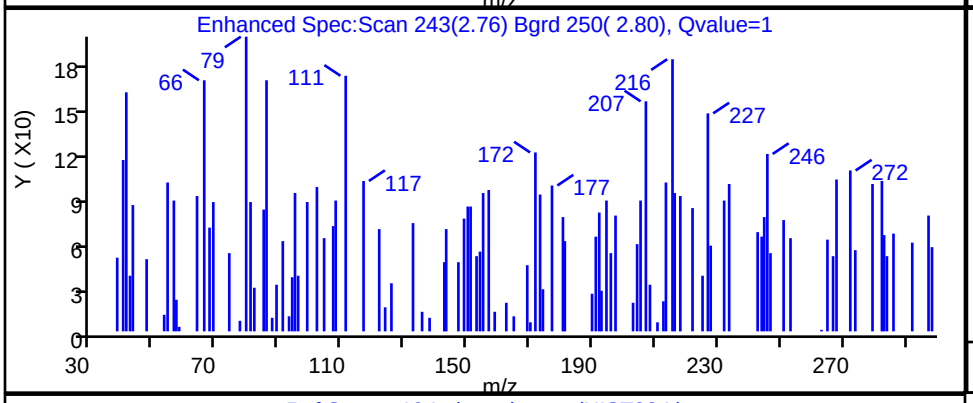
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

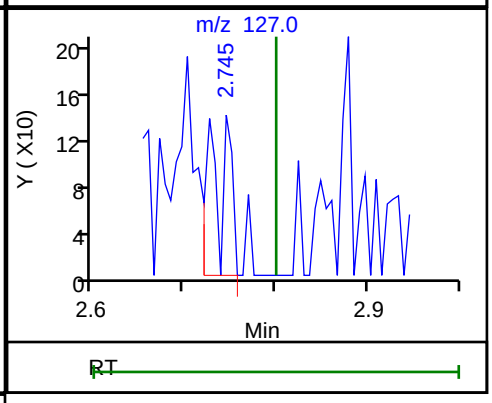
19 Iodomethane, CAS: 74-88-4

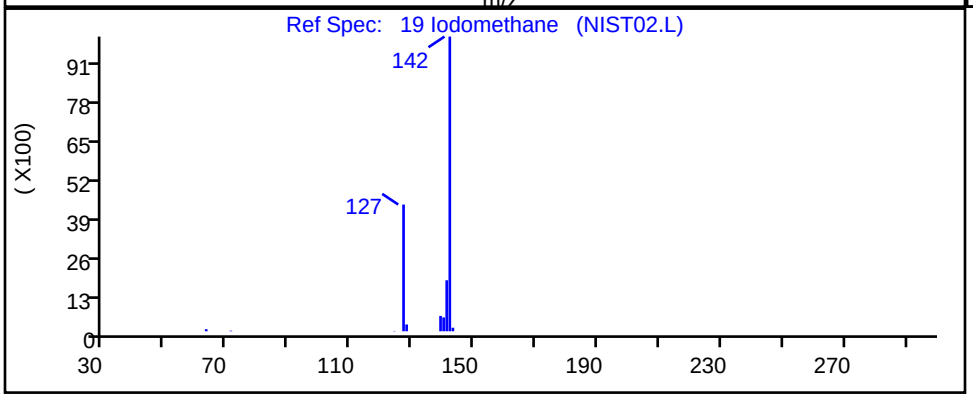
Processing Results











RT	Mass	Response	Amount
2.76	142.00	133	0.024954
2.75	127.00	195	

Reviewer: delpolitov, 05-Jun-2018 13:00:47

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

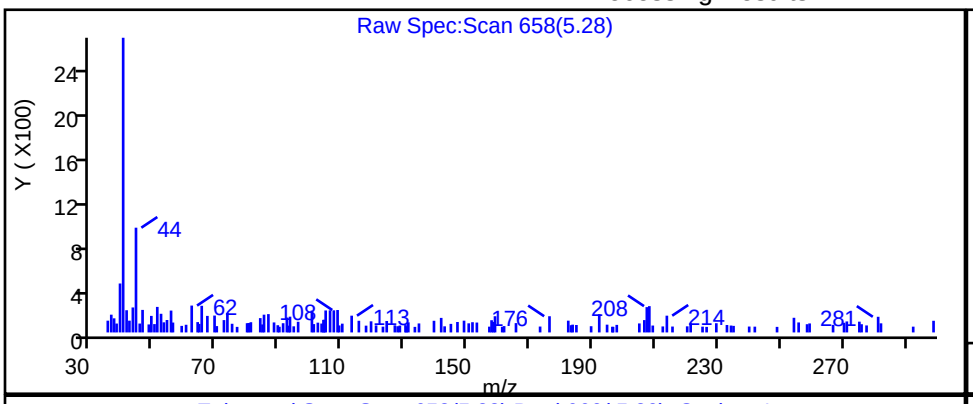
User Disabled Compound Report

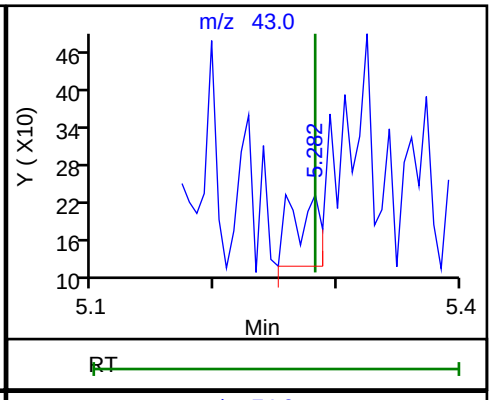
TestAmerica Edison

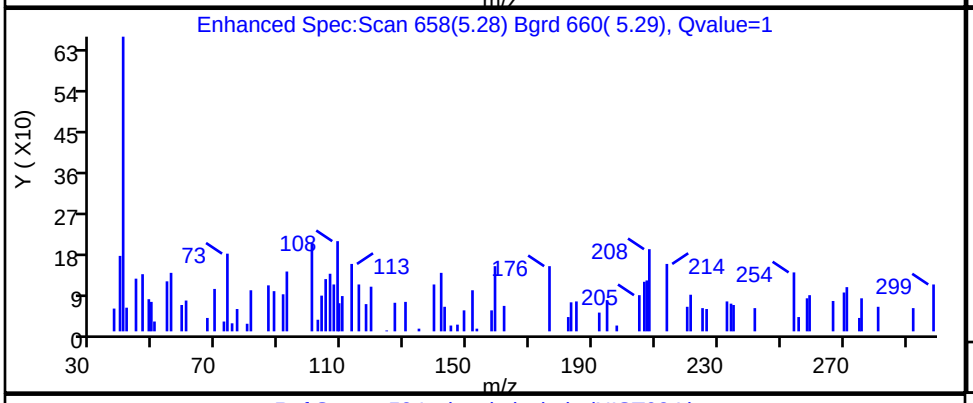
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

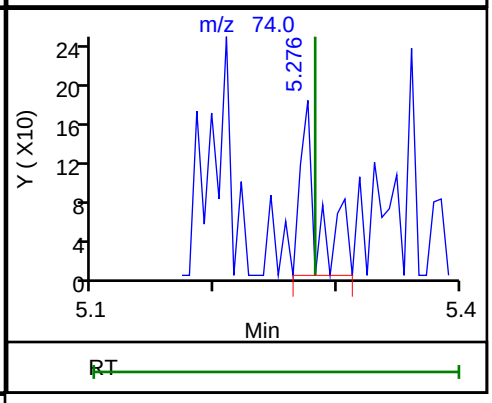
58 Isobutyl alcohol, CAS: 78-83-1

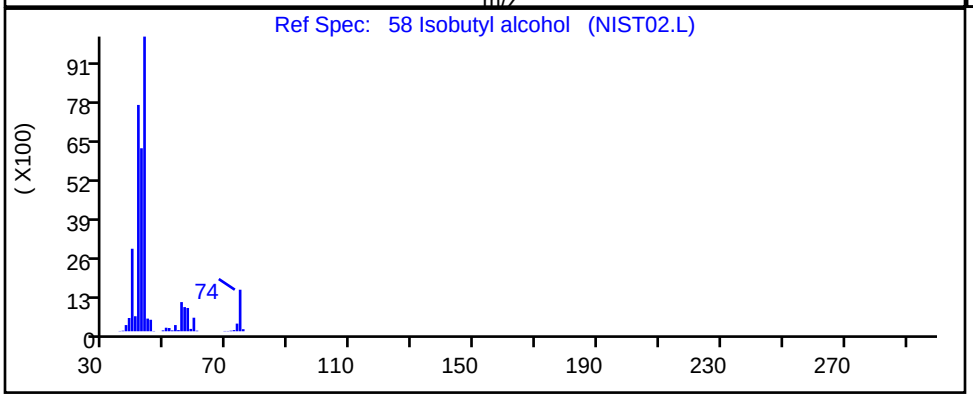
Processing Results











RT	Mass	Response	Amount
5.28	43.00	183	2.178680
5.28	74.00	187	

Reviewer: delpolitov, 05-Jun-2018 13:01:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

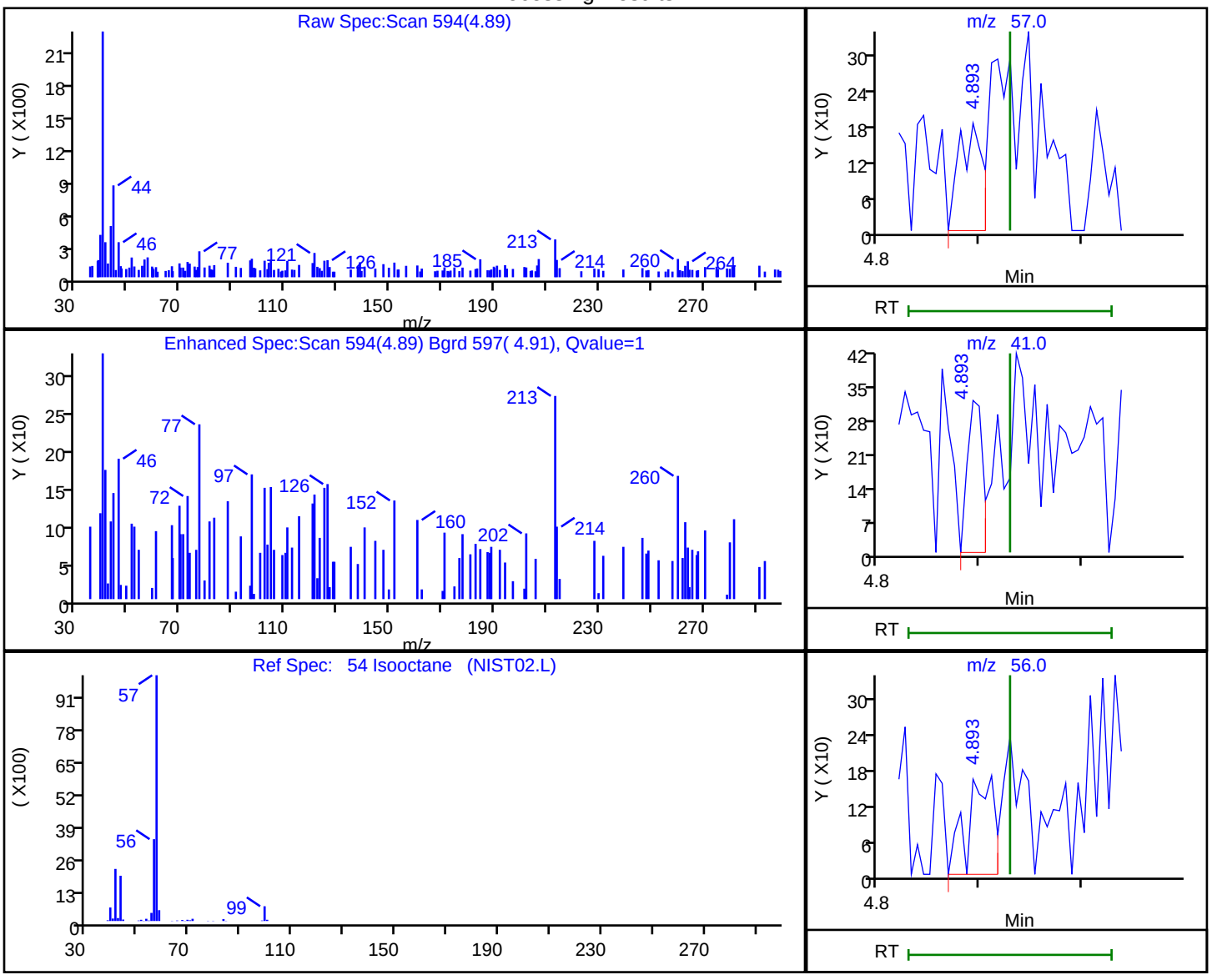
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

54 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
4.89	57.00	282	0.033173
4.89	41.00	333	
4.89	56.00	302	

Reviewer: delpolitov, 05-Jun-2018 13:01:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

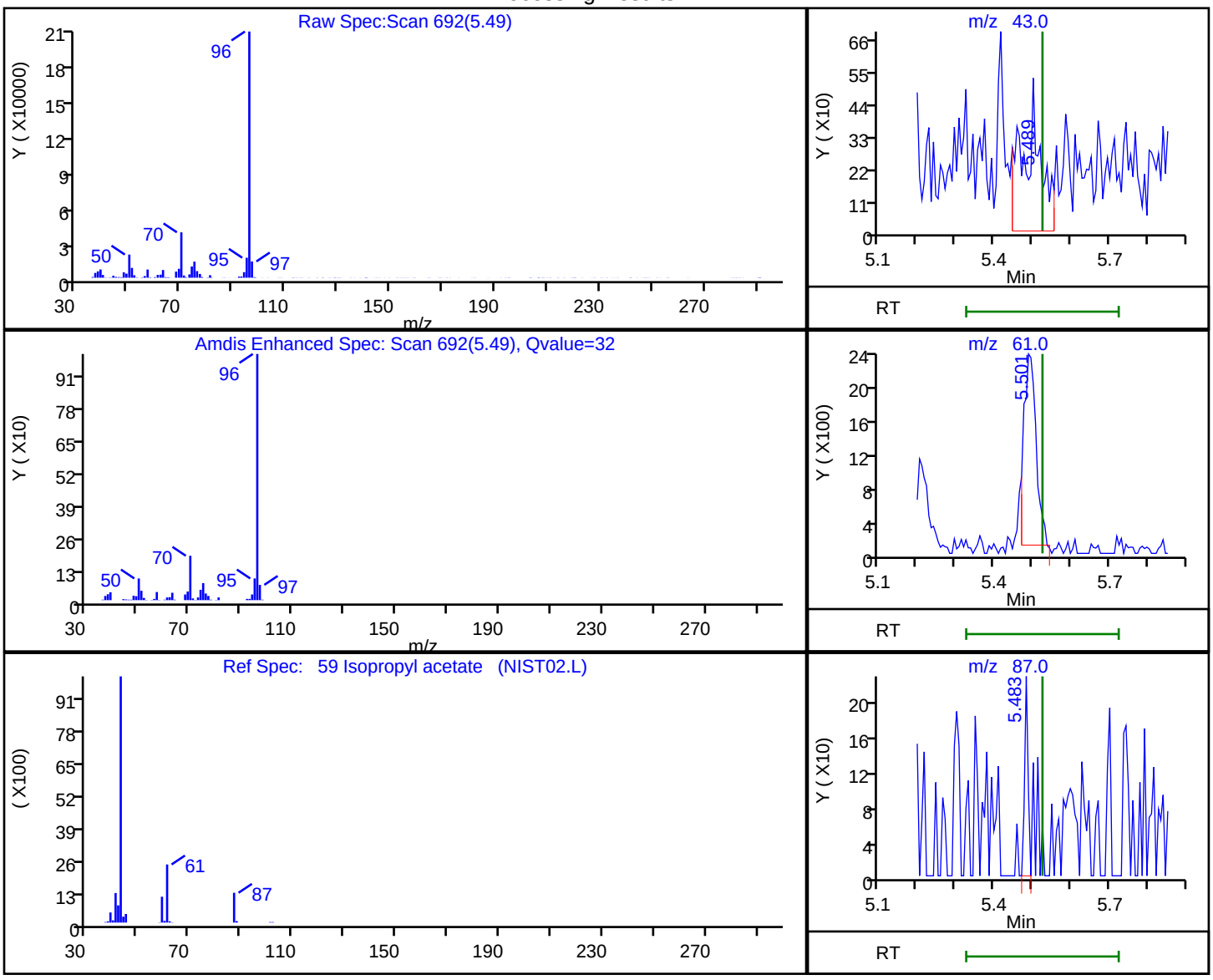
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 Isopropyl acetate, CAS: 108-21-4

Processing Results



RT	Mass	Response	Amount
5.49	43.00	6024	7.189753
5.50	61.00	614	
5.48	87.00	139	

Reviewer: delpolitov, 05-Jun-2018 13:01:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

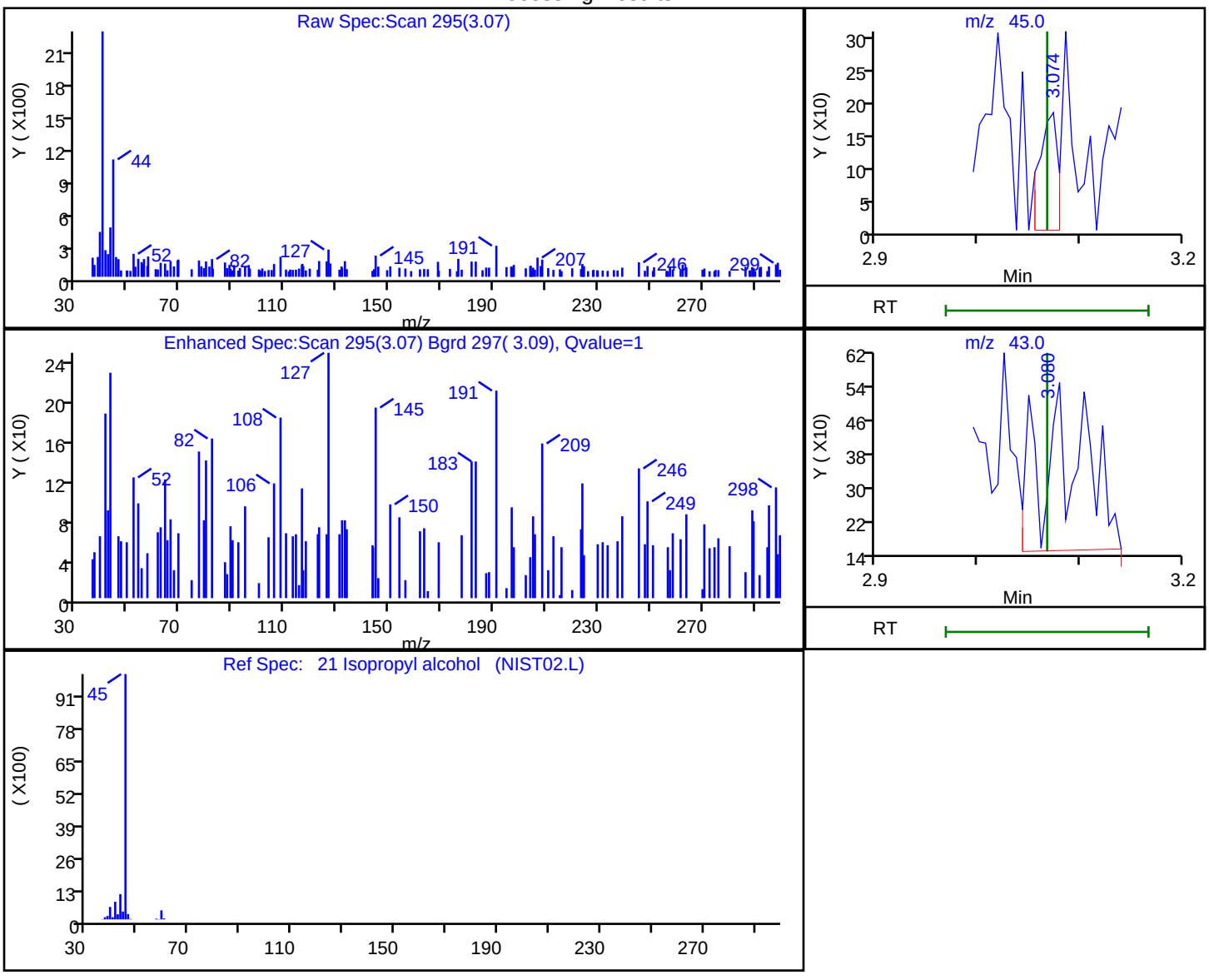
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
3.07	45.00	229	1.866380
3.08	43.00	1142	

Reviewer: delpolitov, 05-Jun-2018 13:00:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

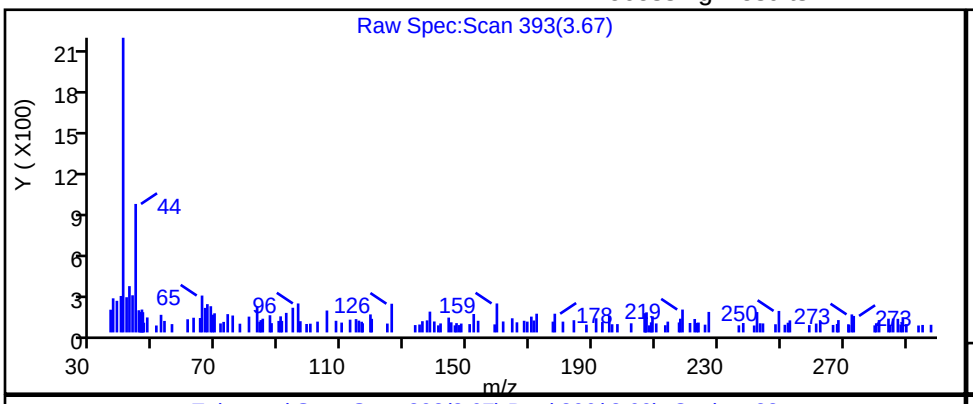
User Disabled Compound Report

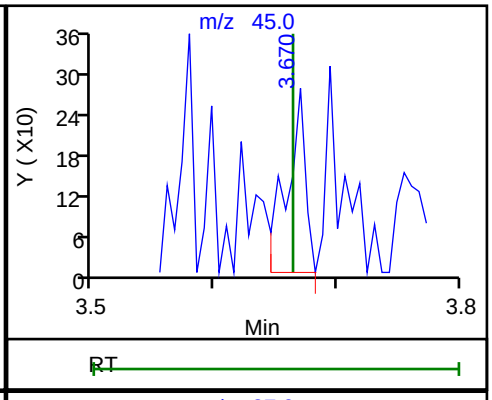
TestAmerica Edison

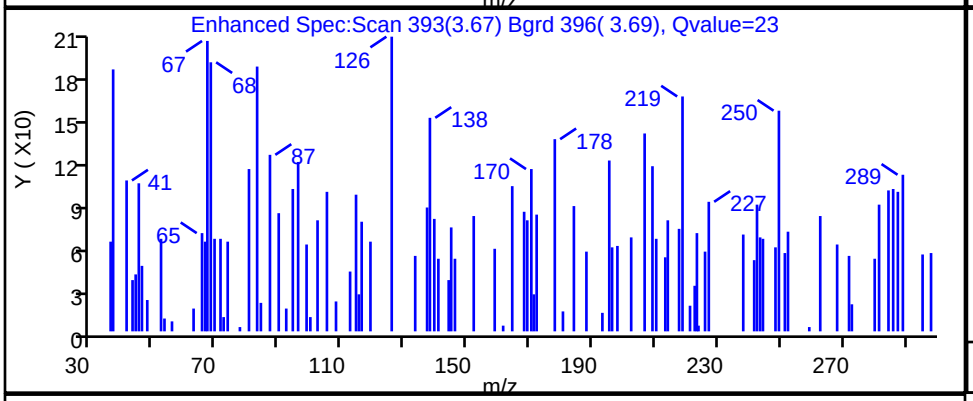
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

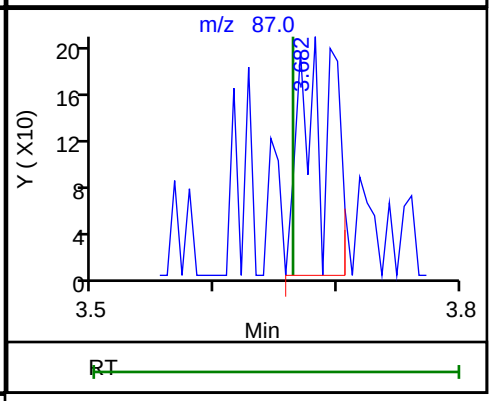
33 Isopropyl ether, CAS: 108-20-3

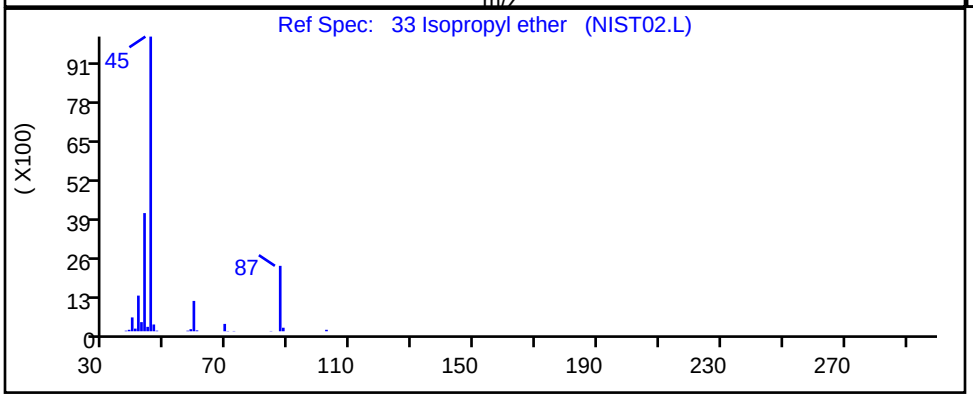
Processing Results











RT	Mass	Response	Amount
3.67	45.00	293	0.032829
3.68	87.00	364	

Reviewer: delpolitov, 05-Jun-2018 13:00:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

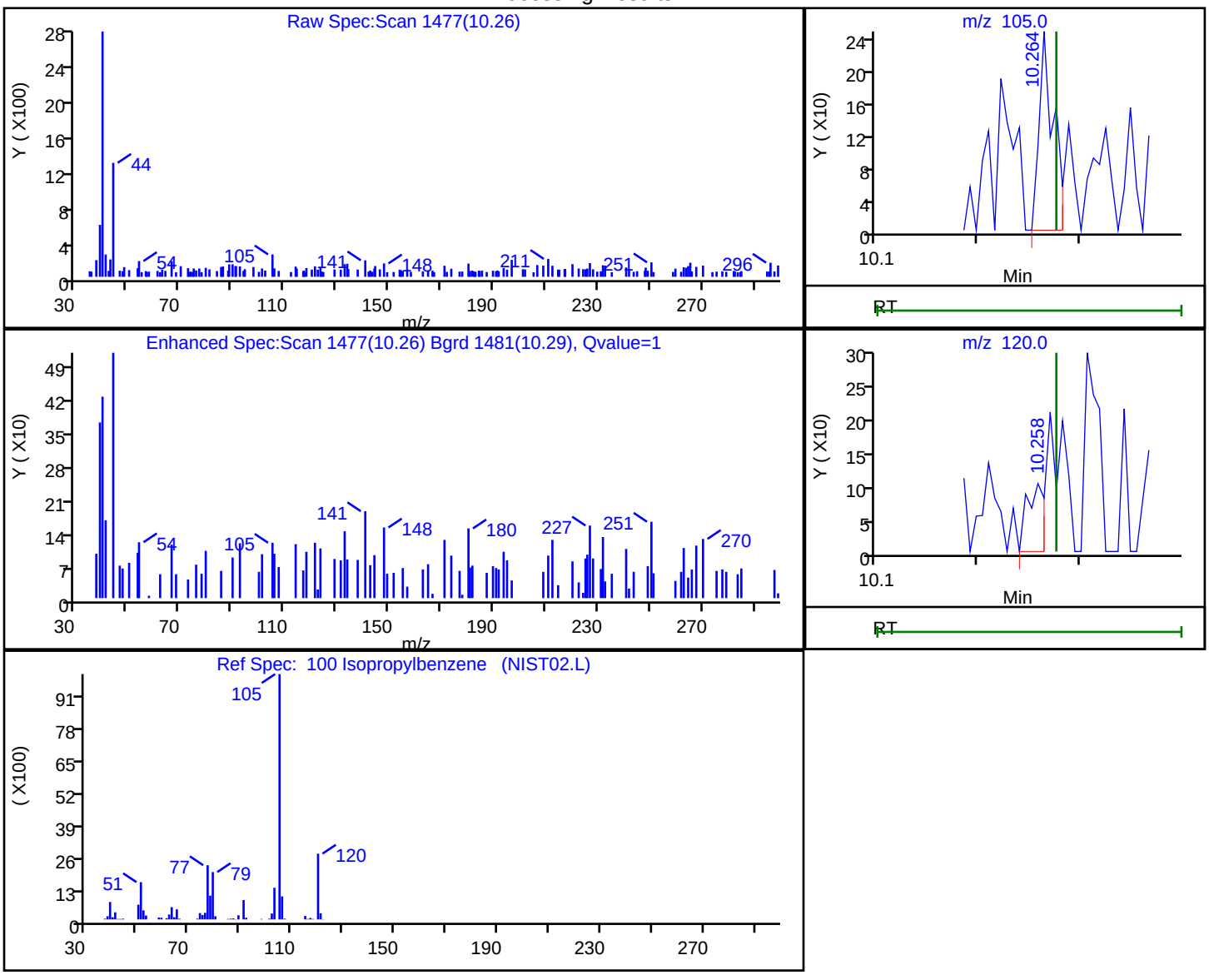
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

100 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
10.26	105.00	247	0.016976
10.26	120.00	122	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

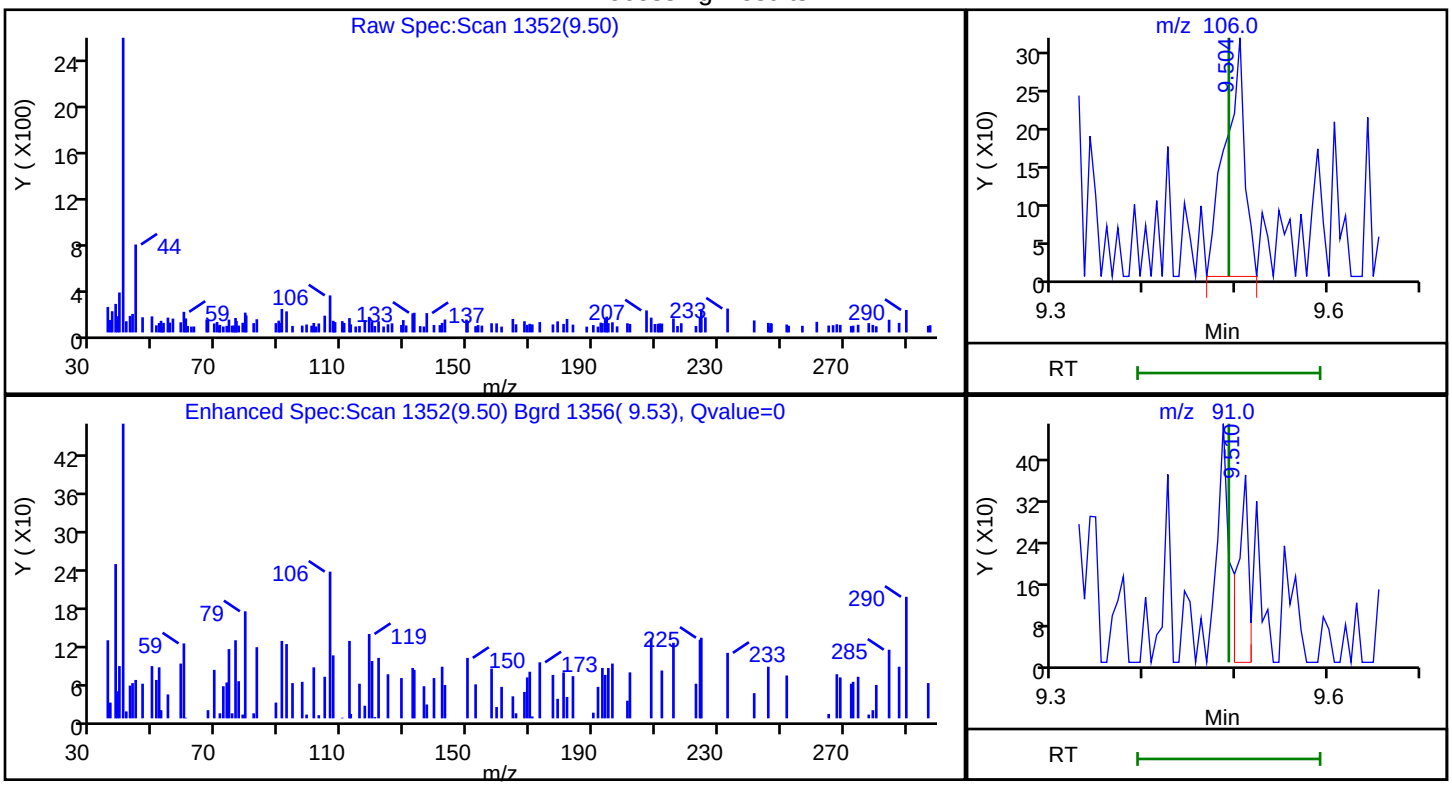
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

94 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
9.50	106.00	465	0.082544
9.51	91.00	295	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

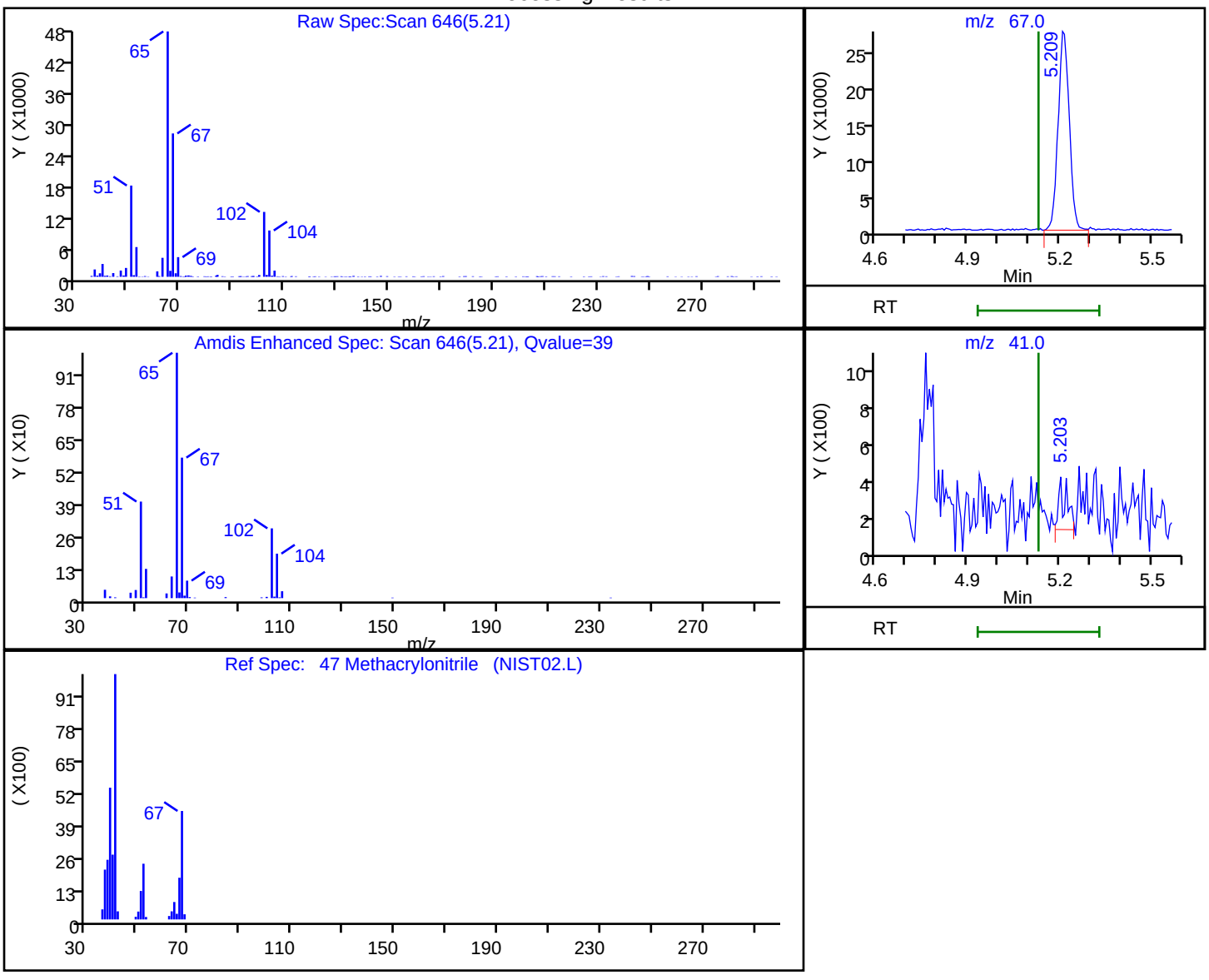
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

47 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
5.21	67.00	70711	75.930041
5.20	41.00	493	

Reviewer: delpolitov, 05-Jun-2018 13:01:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

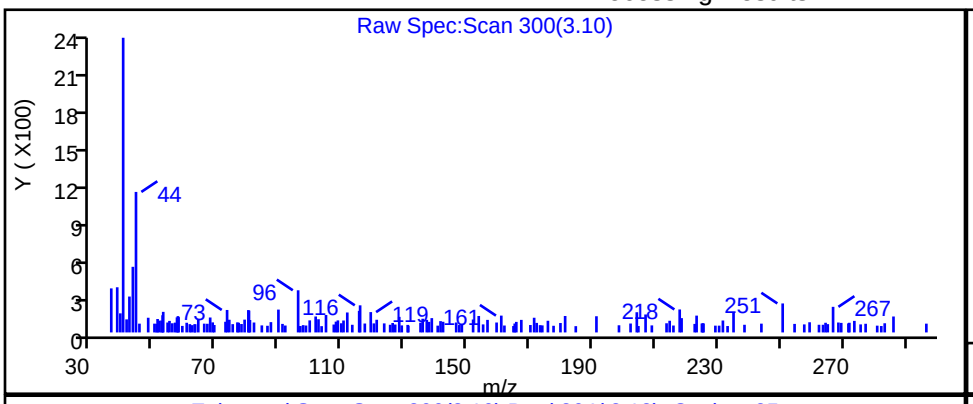
User Disabled Compound Report

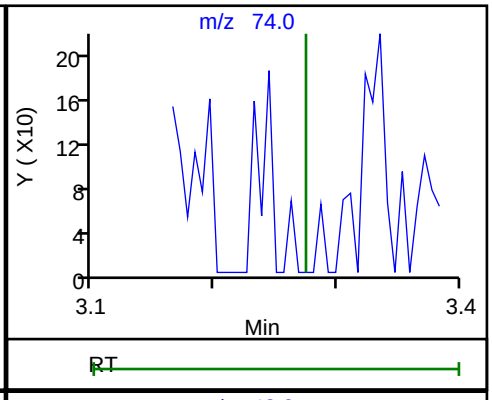
TestAmerica Edison

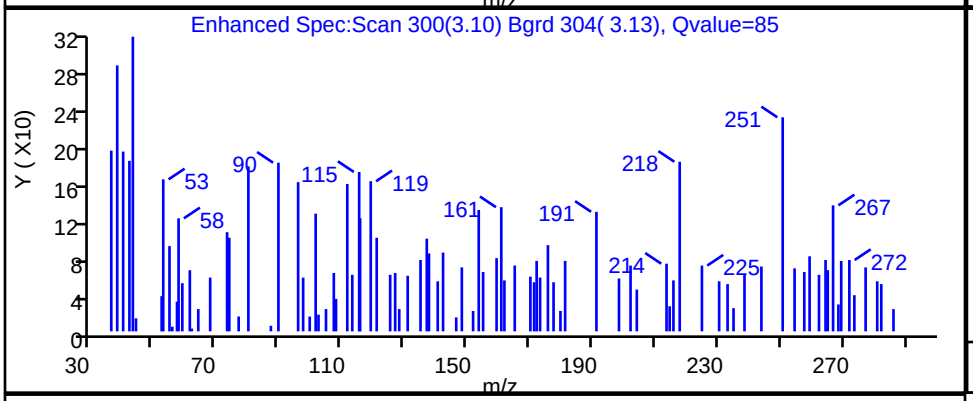
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

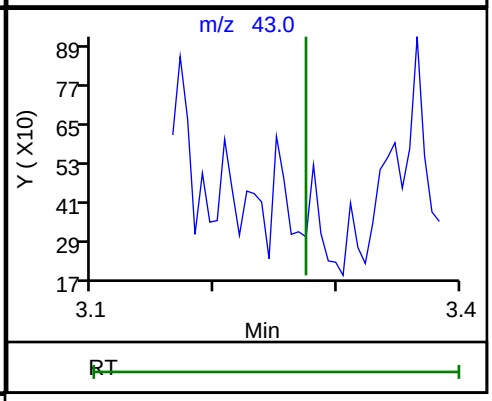
24 Methyl acetate, CAS: 79-20-9

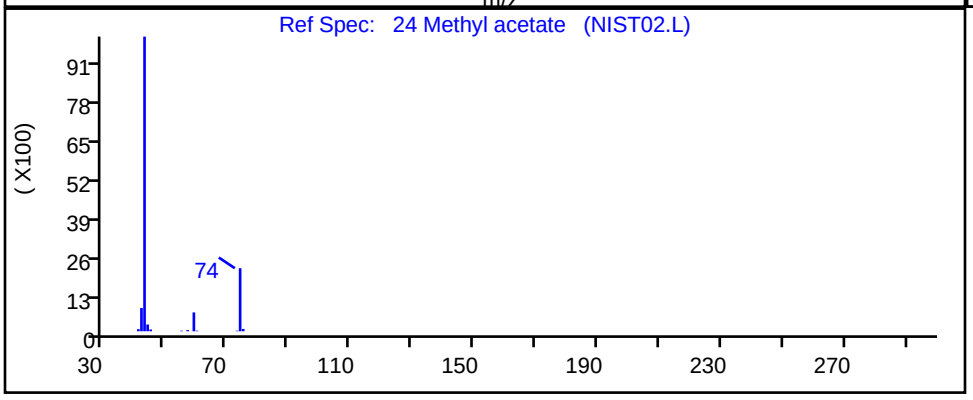
Processing Results











RT	Mass	Response	Amount
3.10	74.00	173	0.453415
3.10	43.00	455	

Reviewer: delpolitov, 05-Jun-2018 13:00:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

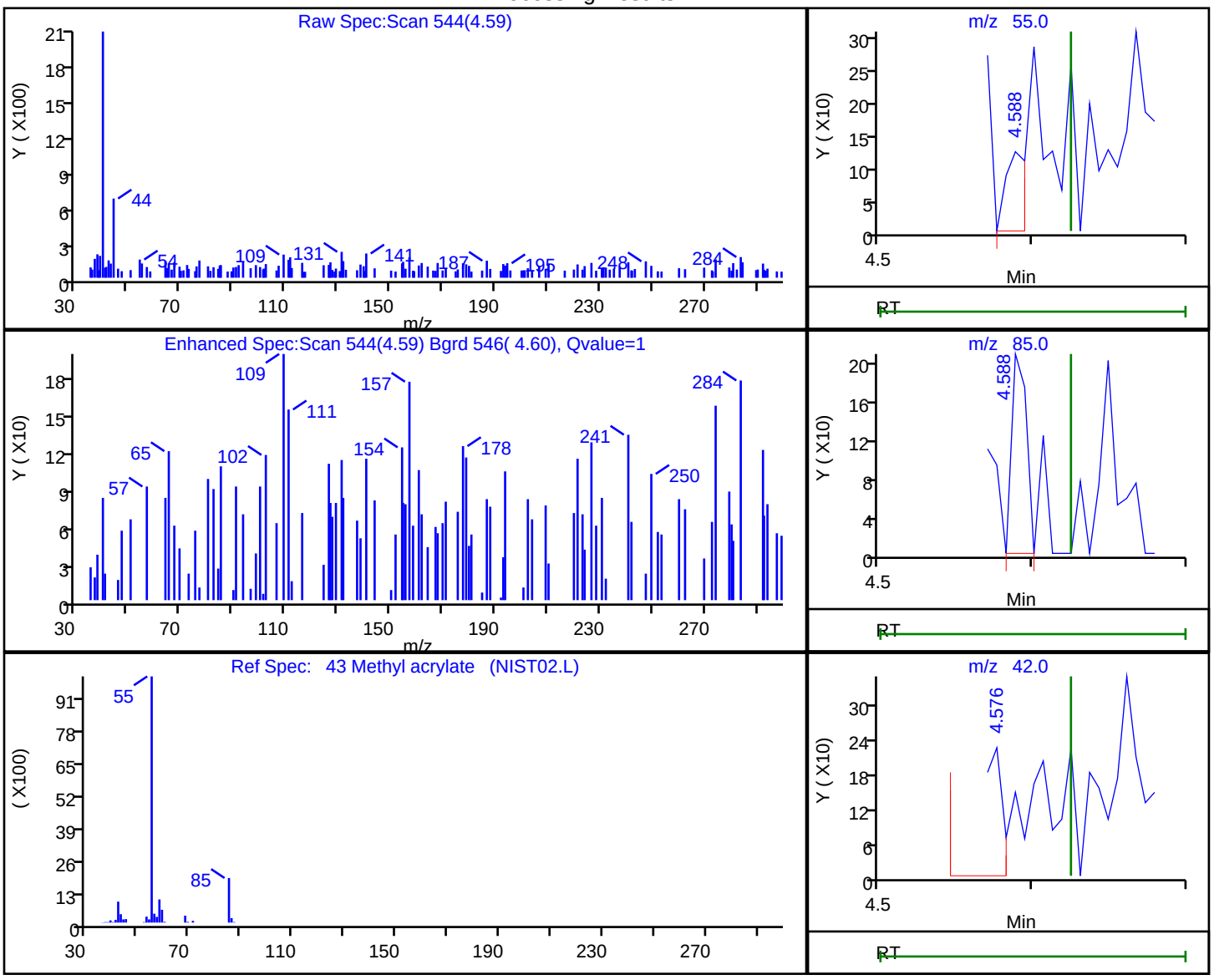
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

43 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
4.59	55.00	113	180.0744
4.59	85.00	141	
4.58	42.00	291	

Reviewer: delpolitov, 05-Jun-2018 13:01:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

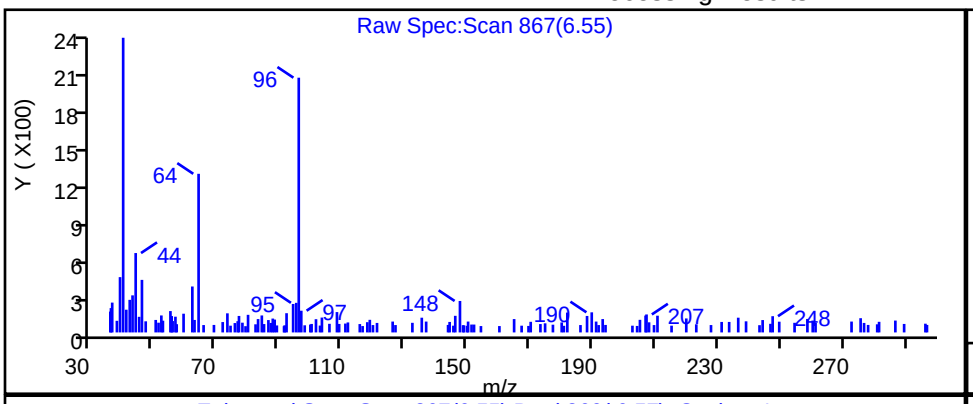
User Disabled Compound Report

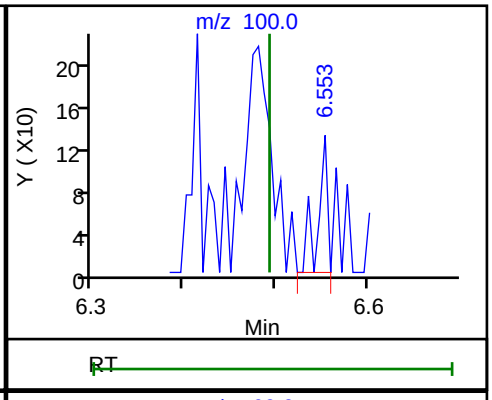
TestAmerica Edison

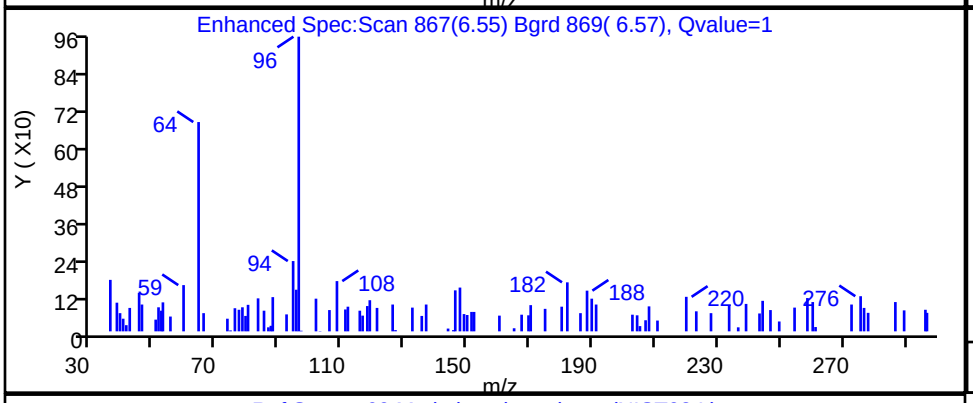
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

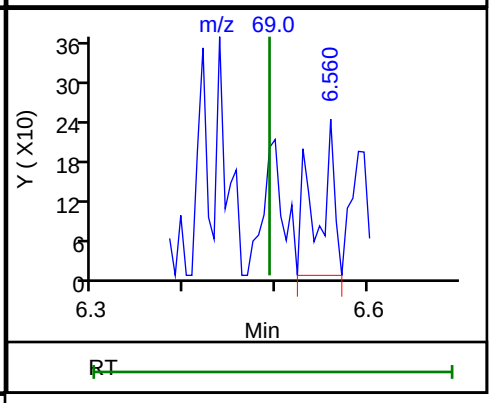
69 Methyl methacrylate, CAS: 80-62-6

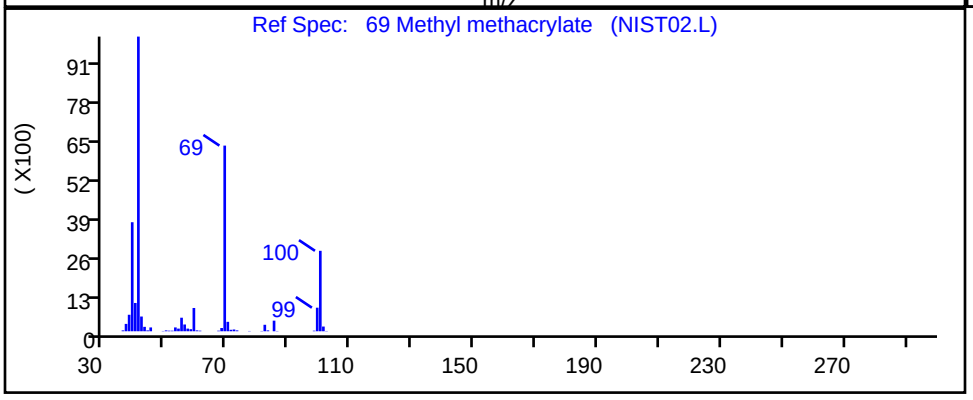
Processing Results











RT	Mass	Response	Amount
6.55	100.00	94	0.129481
6.56	69.00	301	

Reviewer: delpolitov, 05-Jun-2018 13:01:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

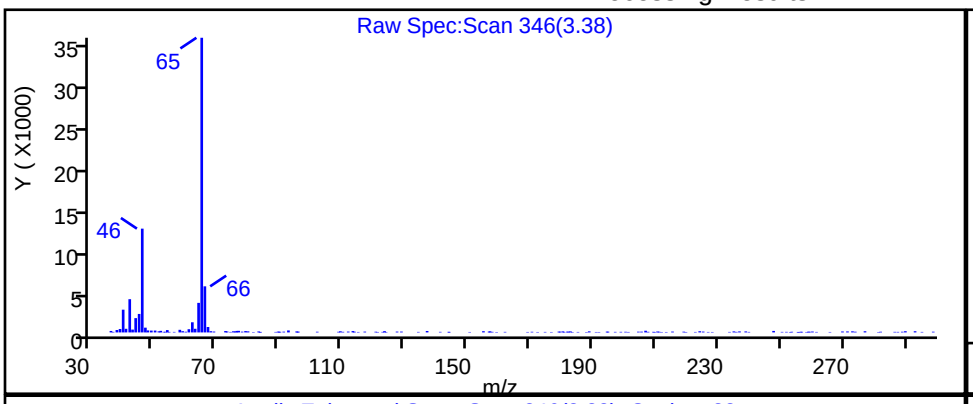
User Disabled Compound Report

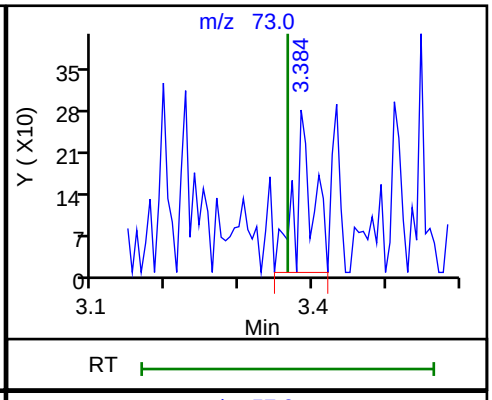
TestAmerica Edison

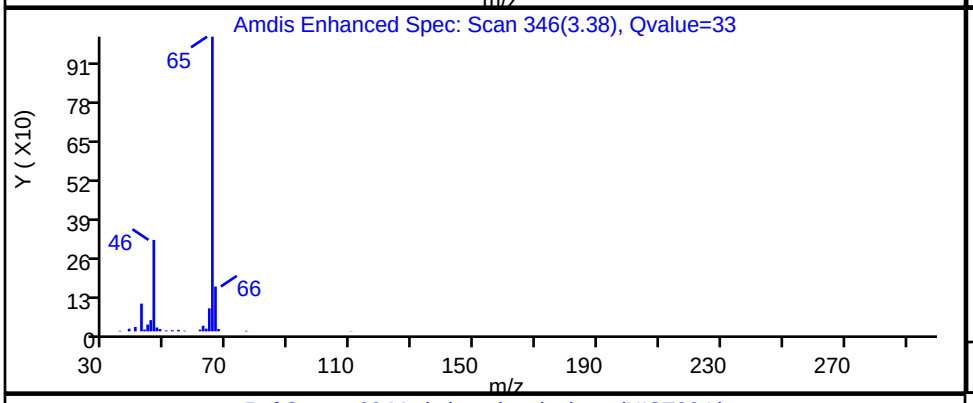
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

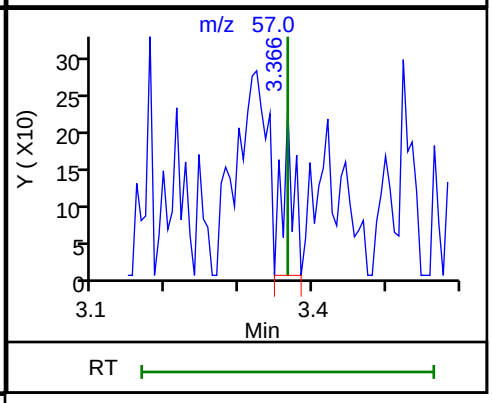
29 Methyl tert-butyl ether, CAS: 1634-04-4

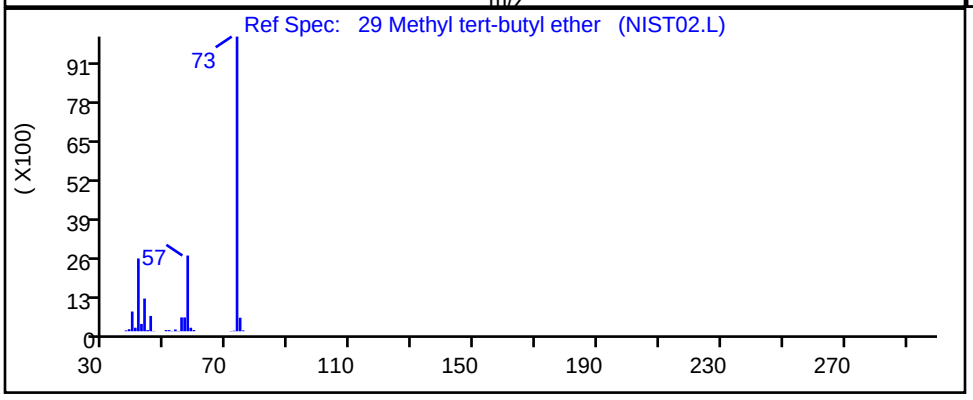
Processing Results











RT	Mass	Response	Amount
3.38	73.00	475	0.057583
3.37	57.00	239	

Reviewer: delpolitov, 05-Jun-2018 13:00:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

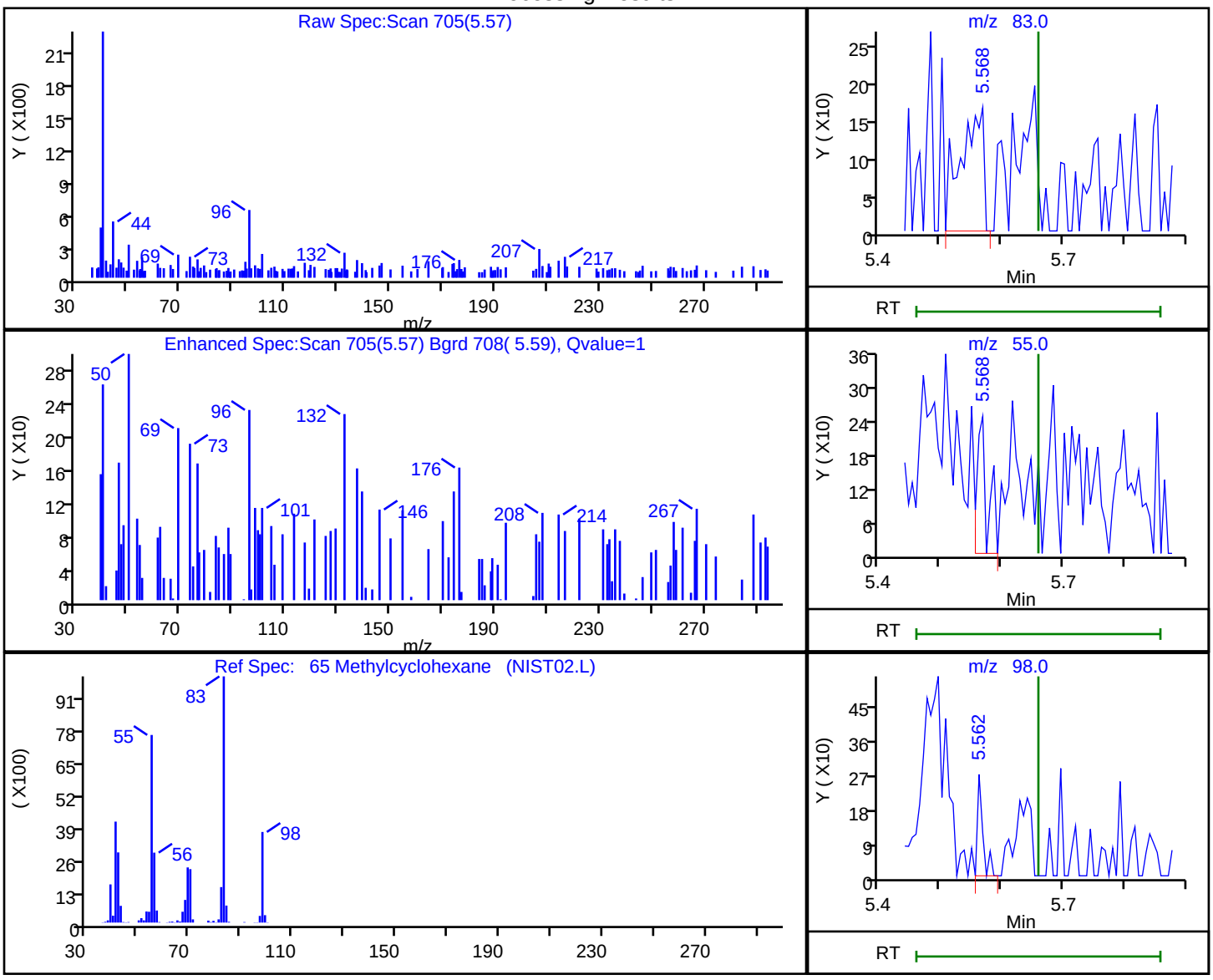
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

65 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
5.57	83.00	422	0.076554
5.57	55.00	288	
5.56	98.00	163	

Reviewer: delpolitov, 05-Jun-2018 13:01:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

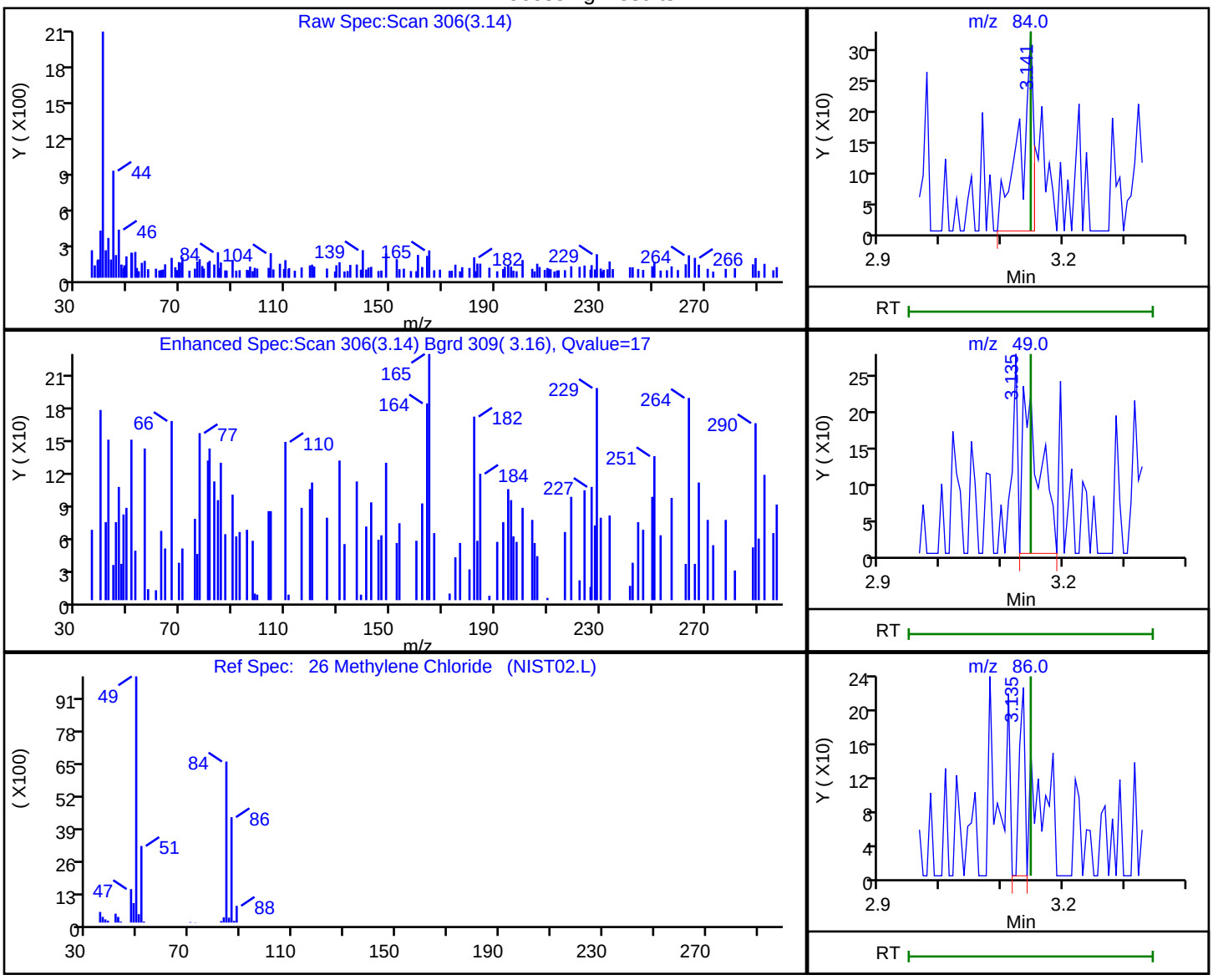
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.14	84.00	499	0.149673
3.13	49.00	459	
3.13	86.00	136	

Reviewer: delpolitov, 05-Jun-2018 13:00:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

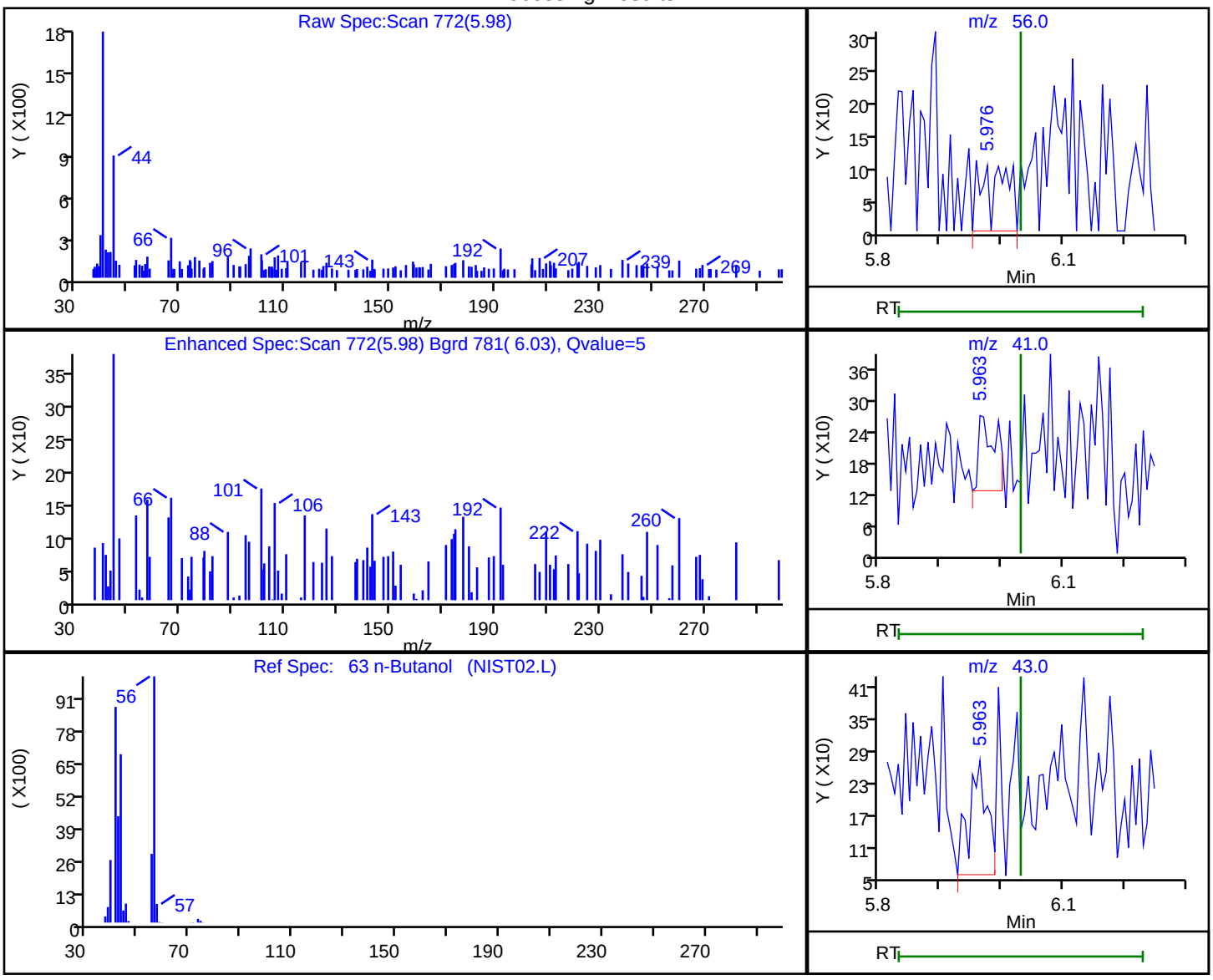
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

63 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
5.98	56.00	306	5.806450
5.96	41.00	271	
5.96	43.00	435	

Reviewer: delpolitov, 05-Jun-2018 13:01:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

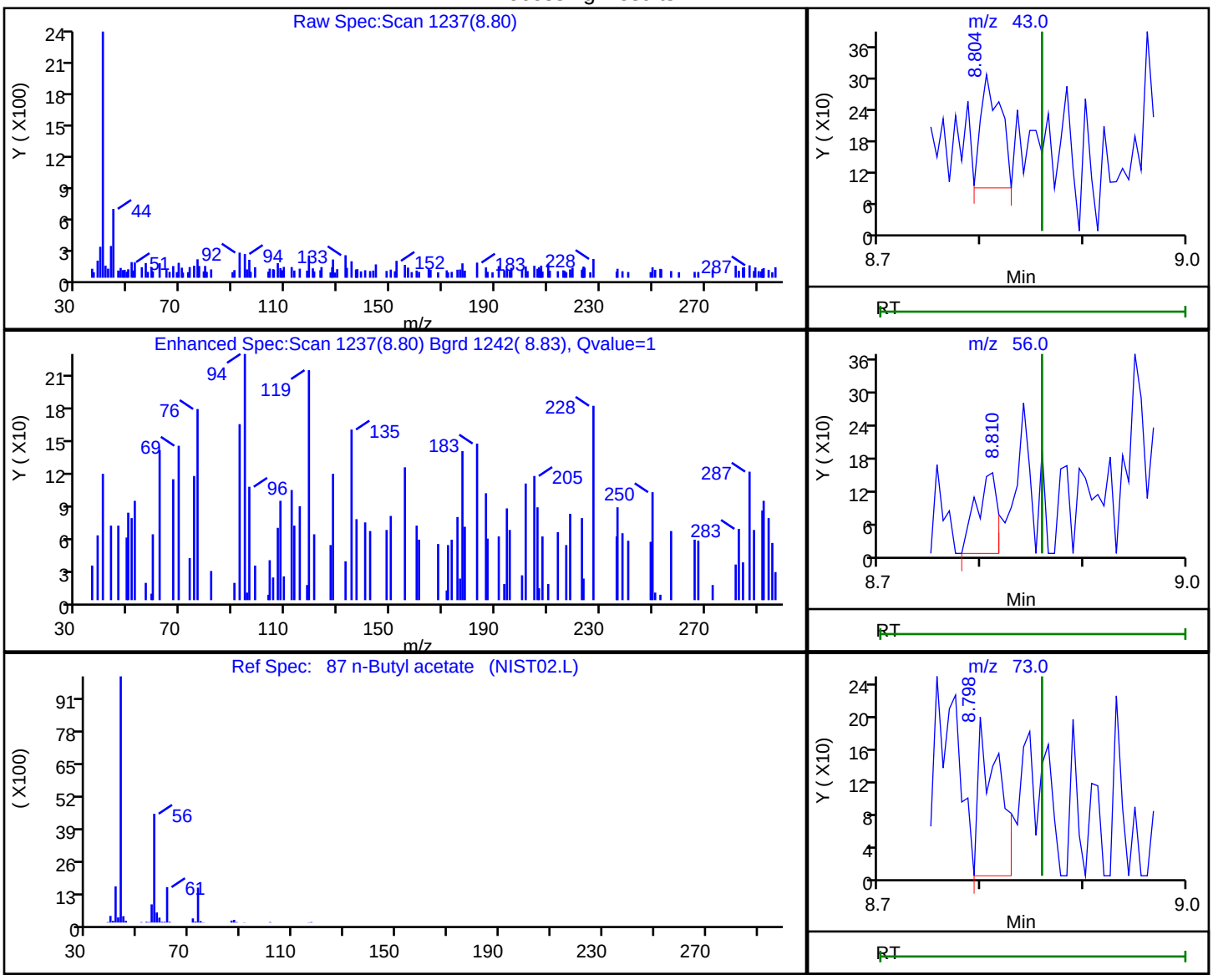
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

87 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
8.80	43.00	296	0.088070
8.81	56.00	211	
8.80	73.00	272	

Reviewer: delpolitov, 05-Jun-2018 13:01:15

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

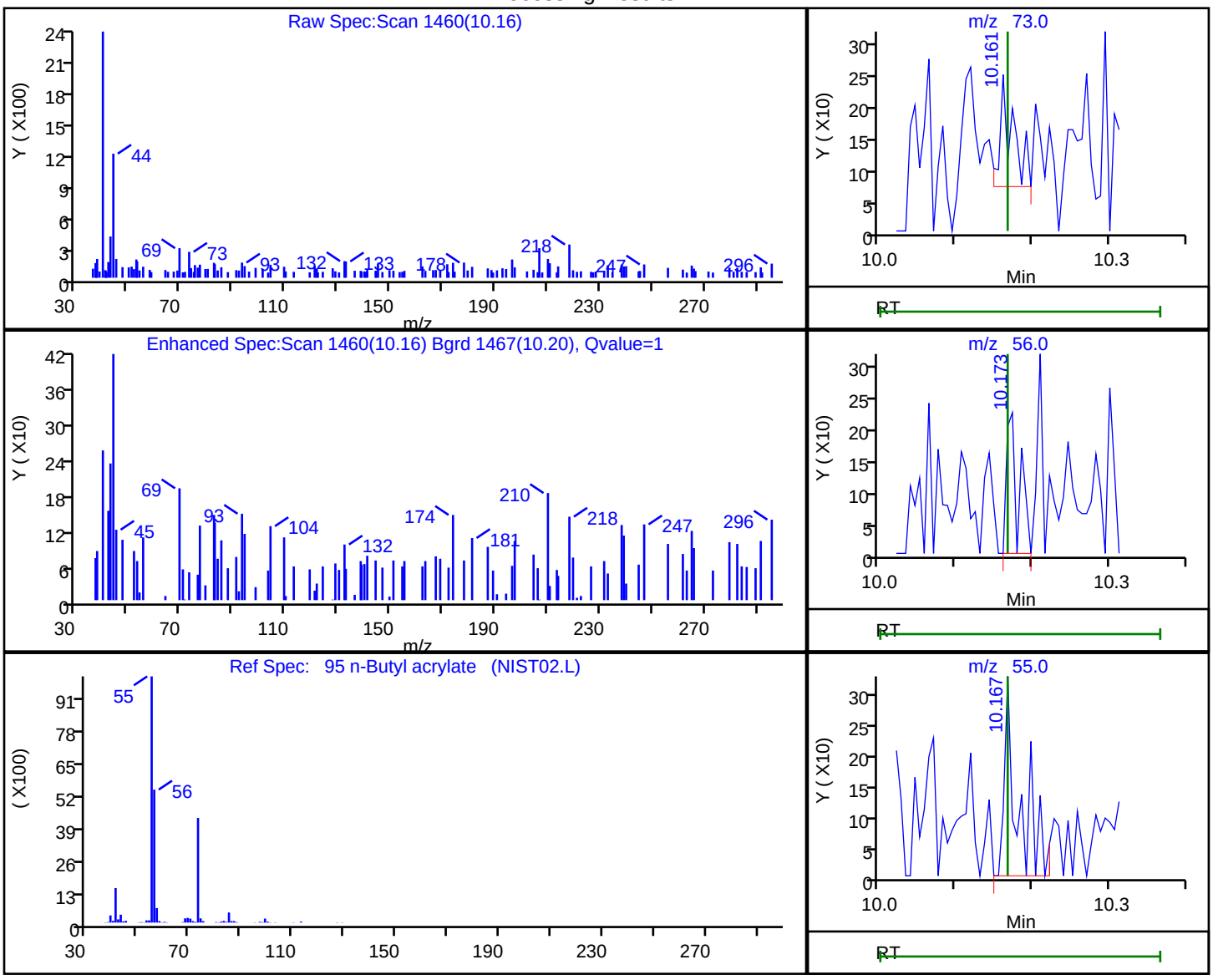
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

95 n-Butyl acrylate, CAS: 141-32-2

Processing Results



RT	Mass	Response	Amount
10.16	73.00	208	0.122892
10.17	56.00	247	
10.17	55.00	413	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

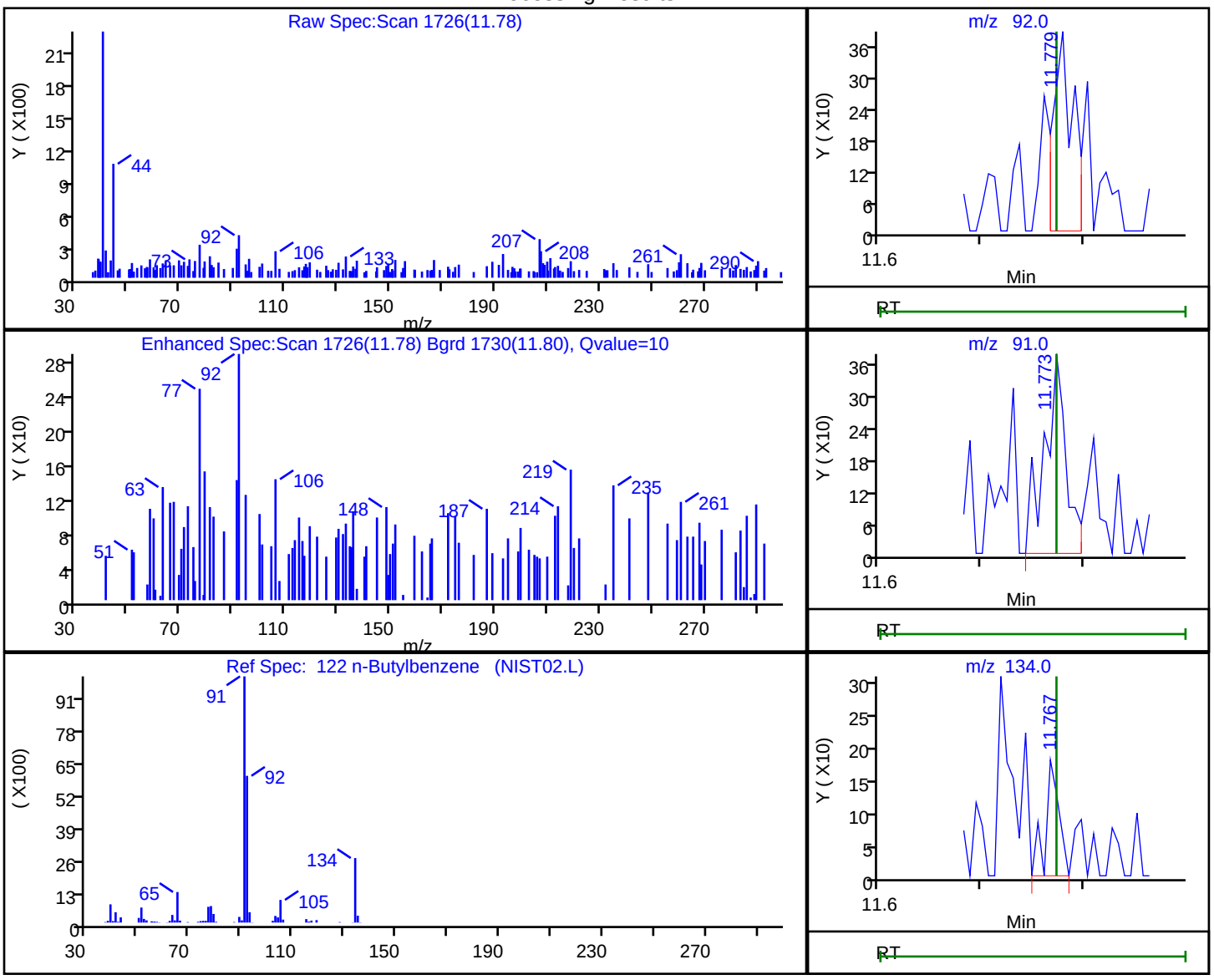
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

122 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
11.78	92.00	526	0.084100
11.77	91.00	548	
11.77	134.00	164	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

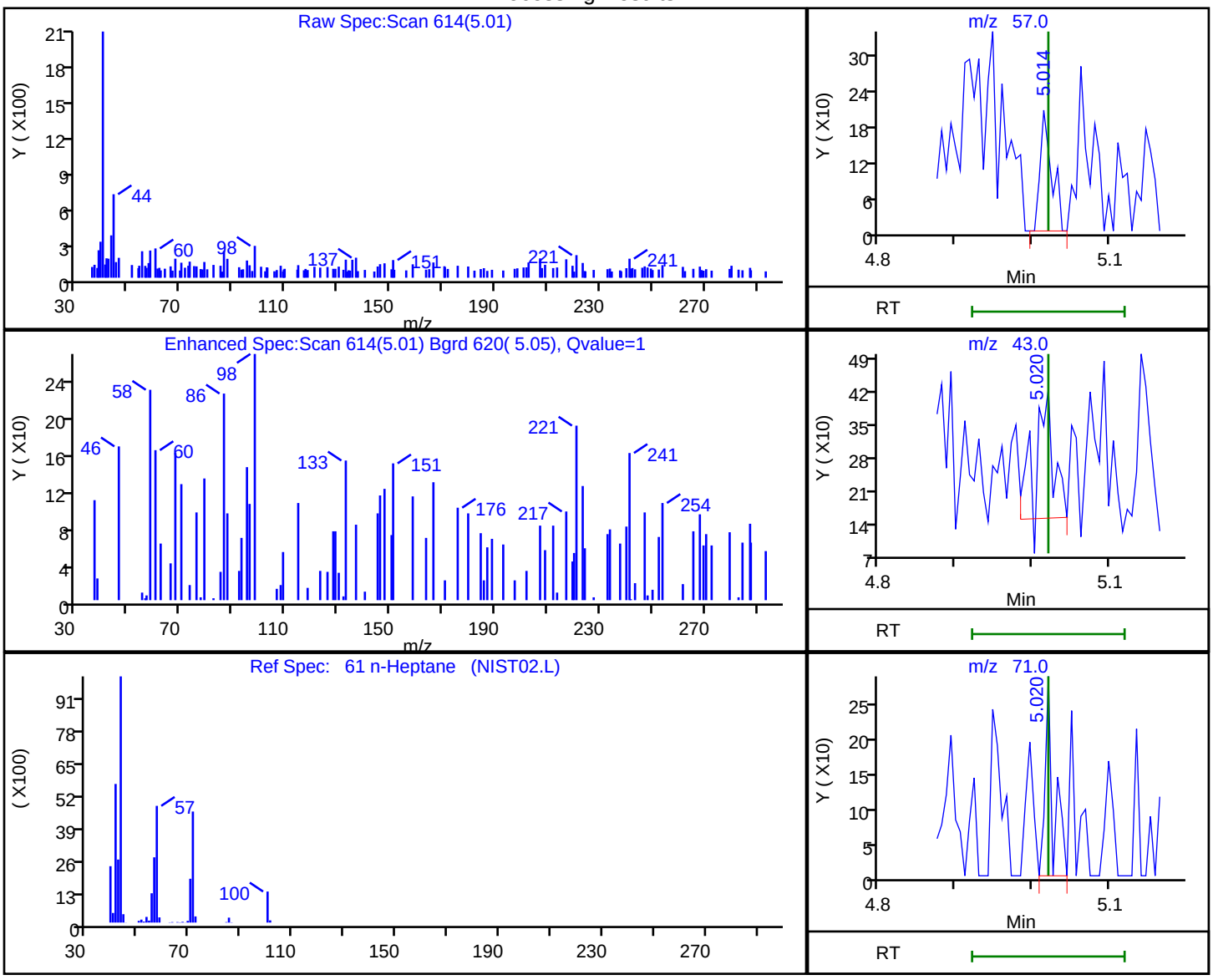
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

61 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.01	57.00	213	0.109347
5.02	43.00	444	
5.02	71.00	215	

Reviewer: delpolitov, 05-Jun-2018 13:01:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

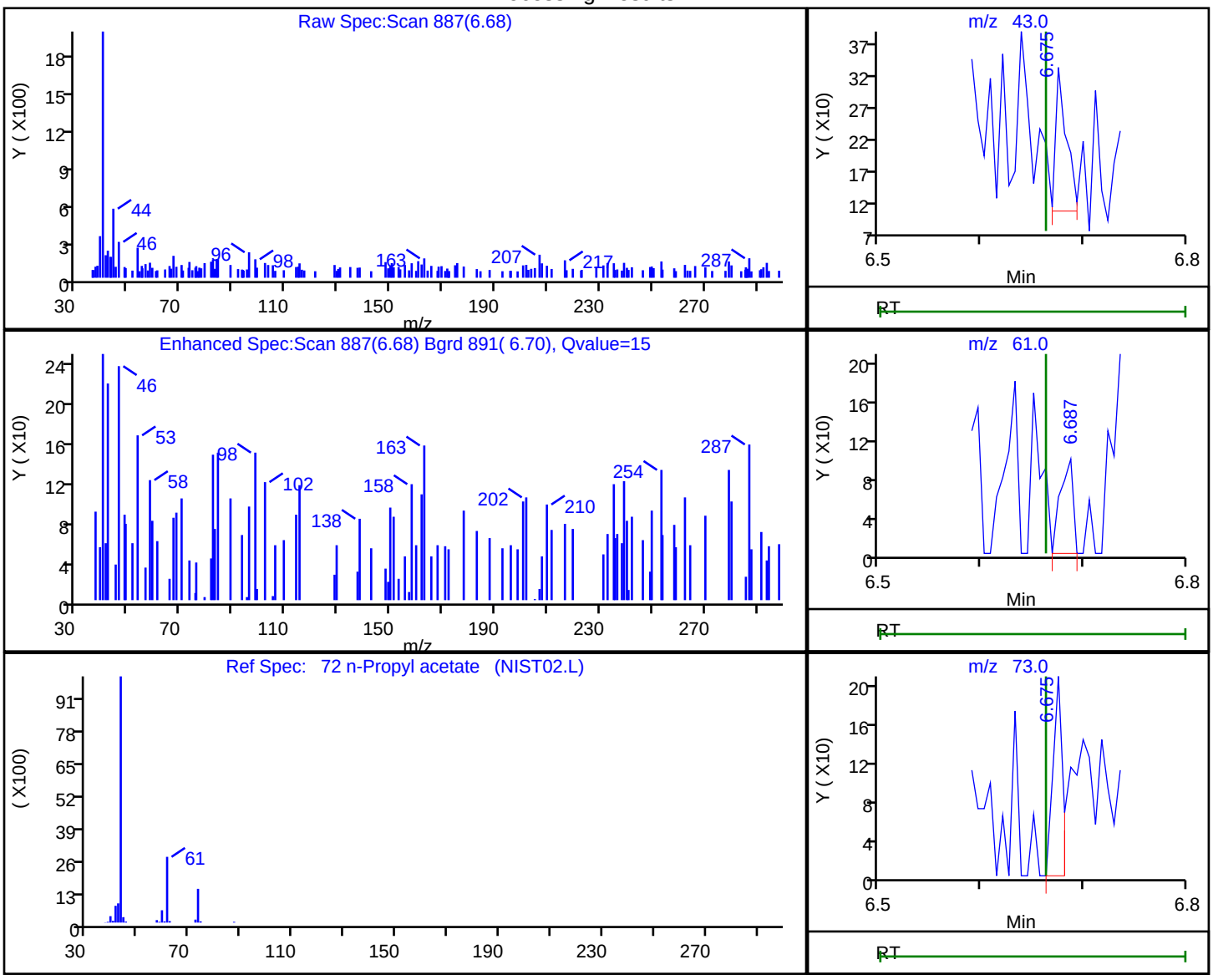
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

72 n-Propyl acetate, CAS: 109-60-4

Processing Results



RT	Mass	Response	Amount
6.68	43.00	166	0.061015
6.69	61.00	84	
6.68	73.00	132	

Reviewer: delpolitov, 05-Jun-2018 13:01:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

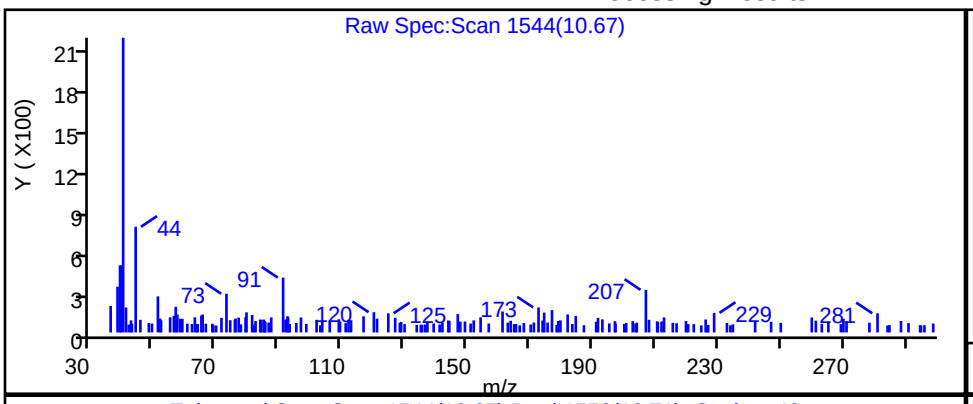
User Disabled Compound Report

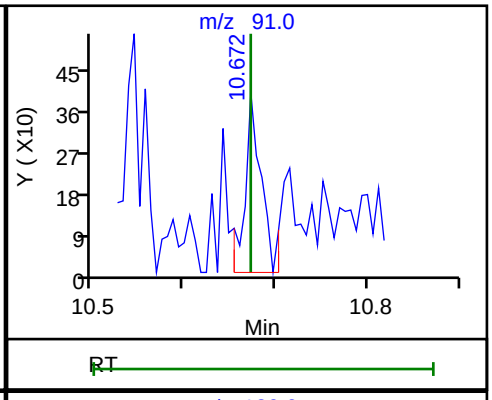
TestAmerica Edison

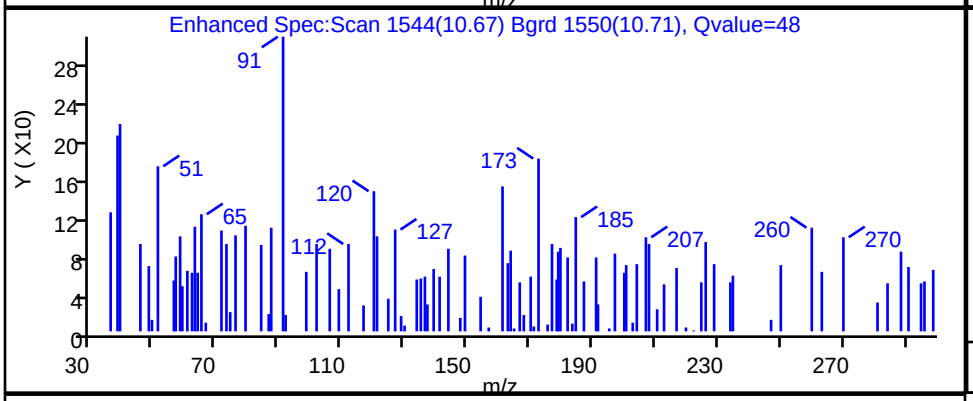
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

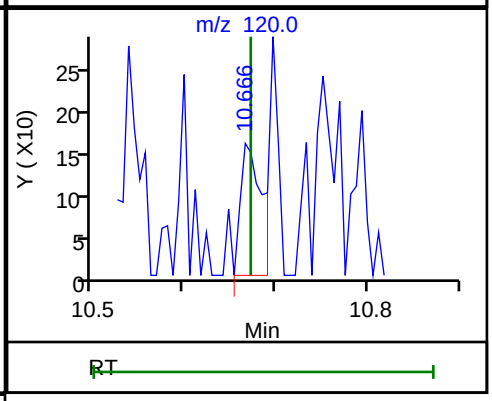
104 N-Propylbenzene, CAS: 103-65-1

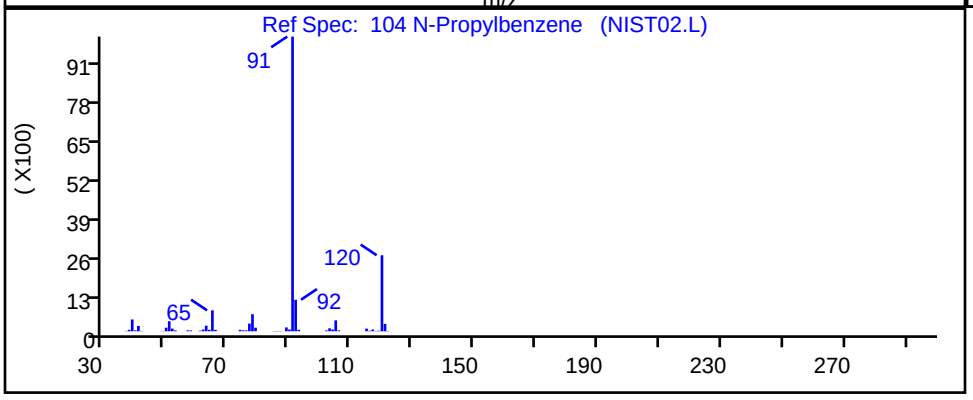
Processing Results











RT	Mass	Response	Amount
10.67	91.00	503	0.032345
10.67	120.00	251	

Reviewer: delpolitov, 05-Jun-2018 13:01:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

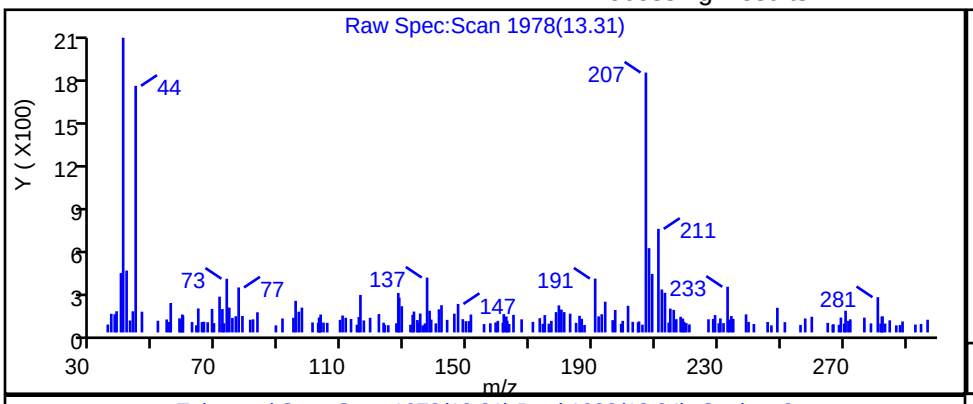
User Disabled Compound Report

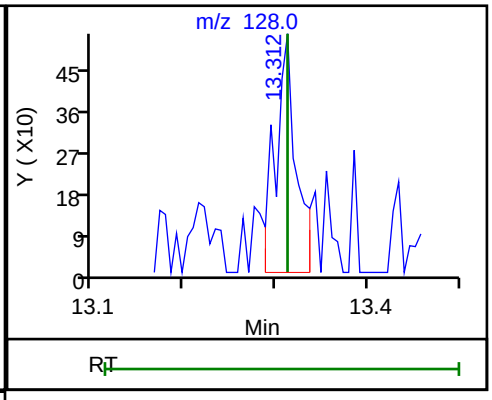
TestAmerica Edison

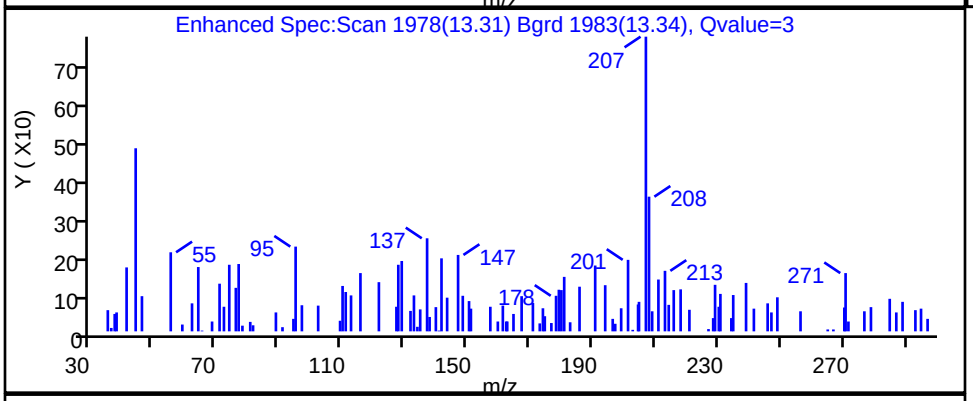
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

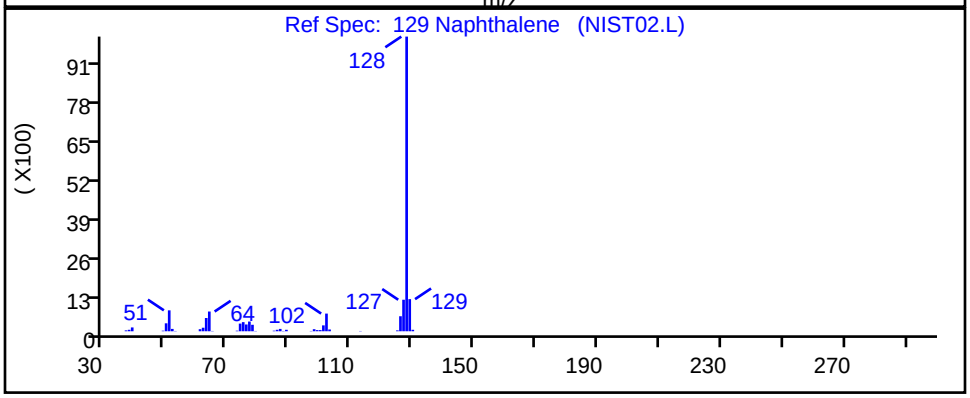
129 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
13.31	128.00	834	0.072735

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

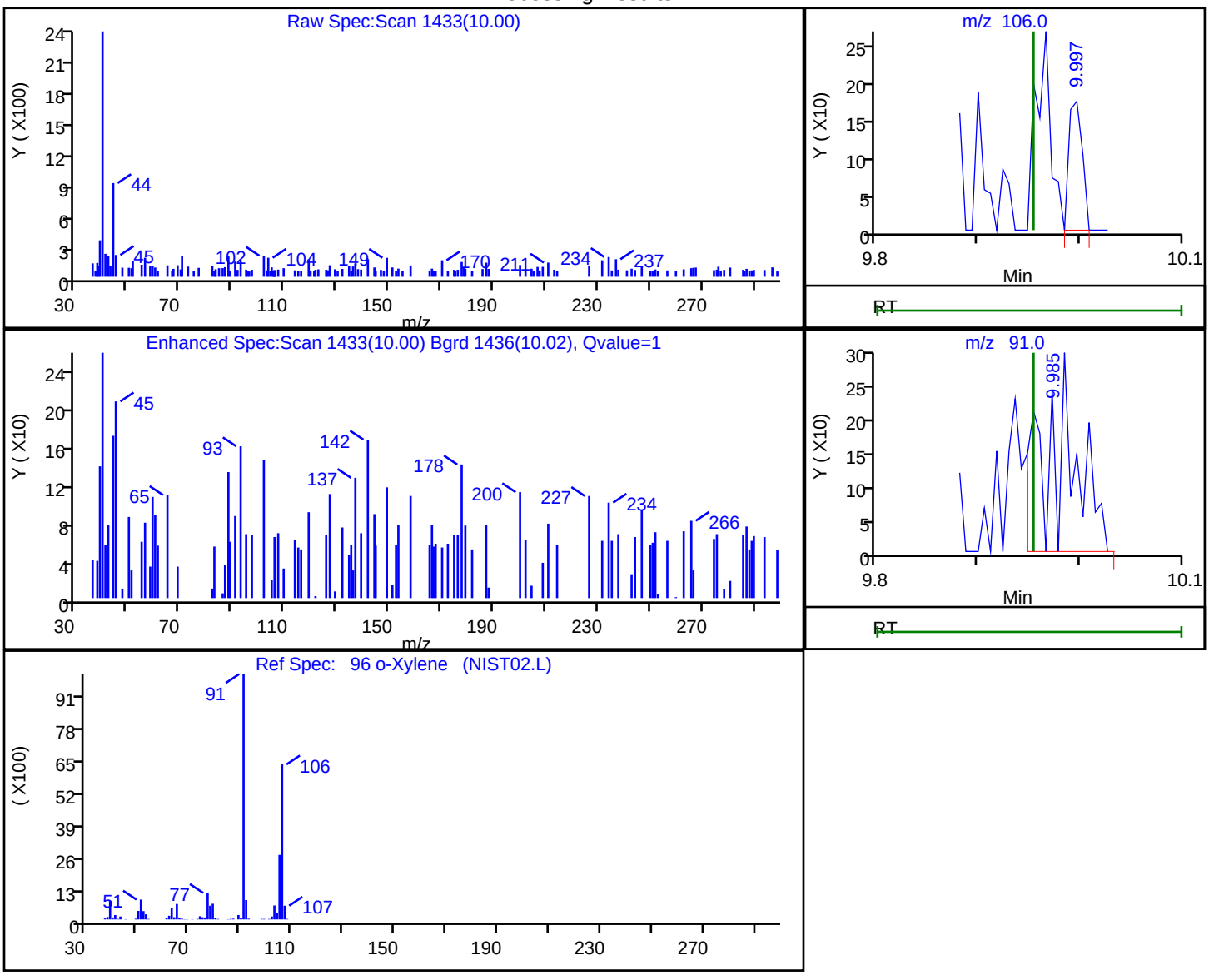
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
10.00	106.00	161	0.029155
9.98	91.00	622	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

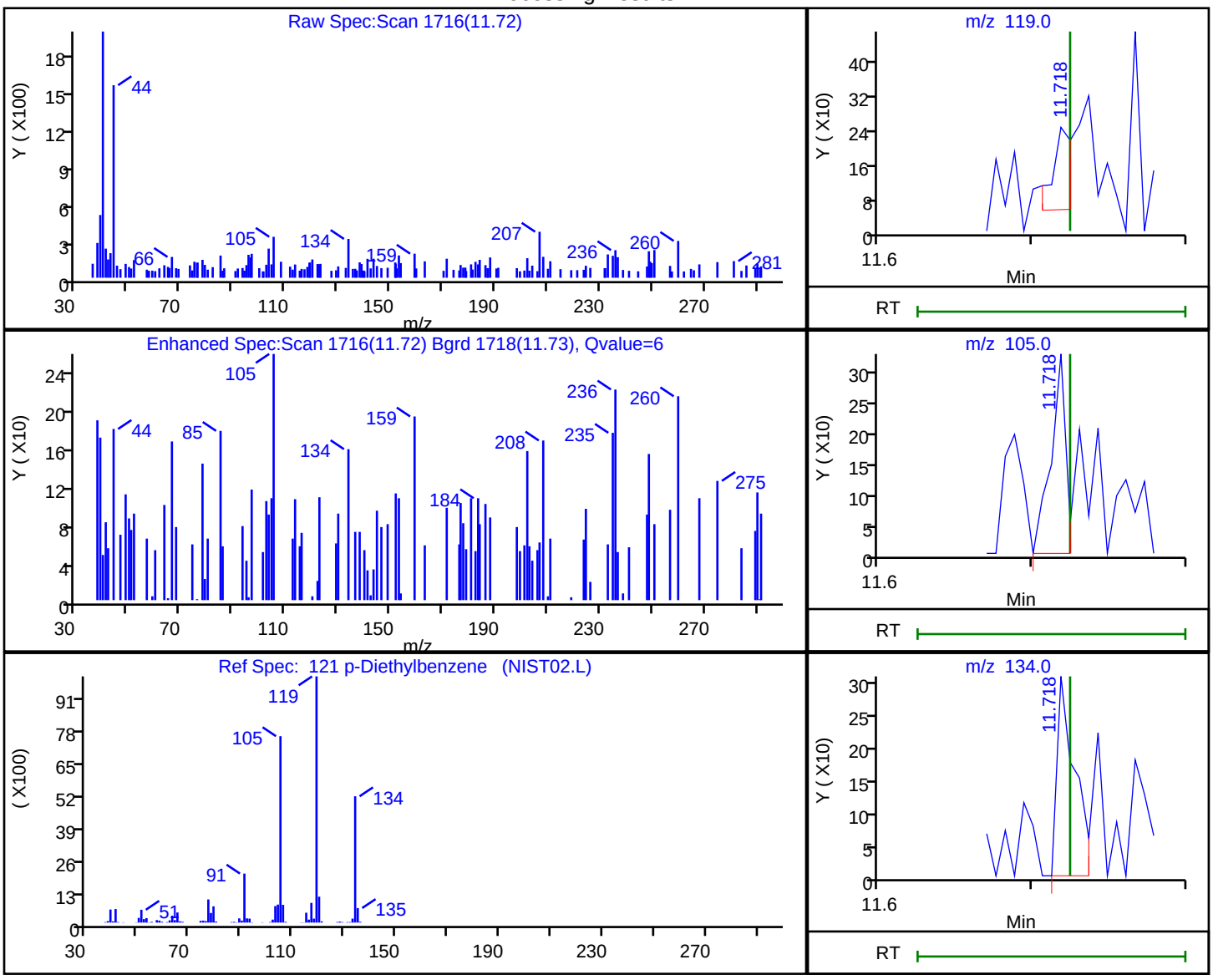
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.72	119.00	170	0.024113
11.72	105.00	224	
11.72	134.00	253	

Reviewer: delpolitov, 05-Jun-2018 13:01:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

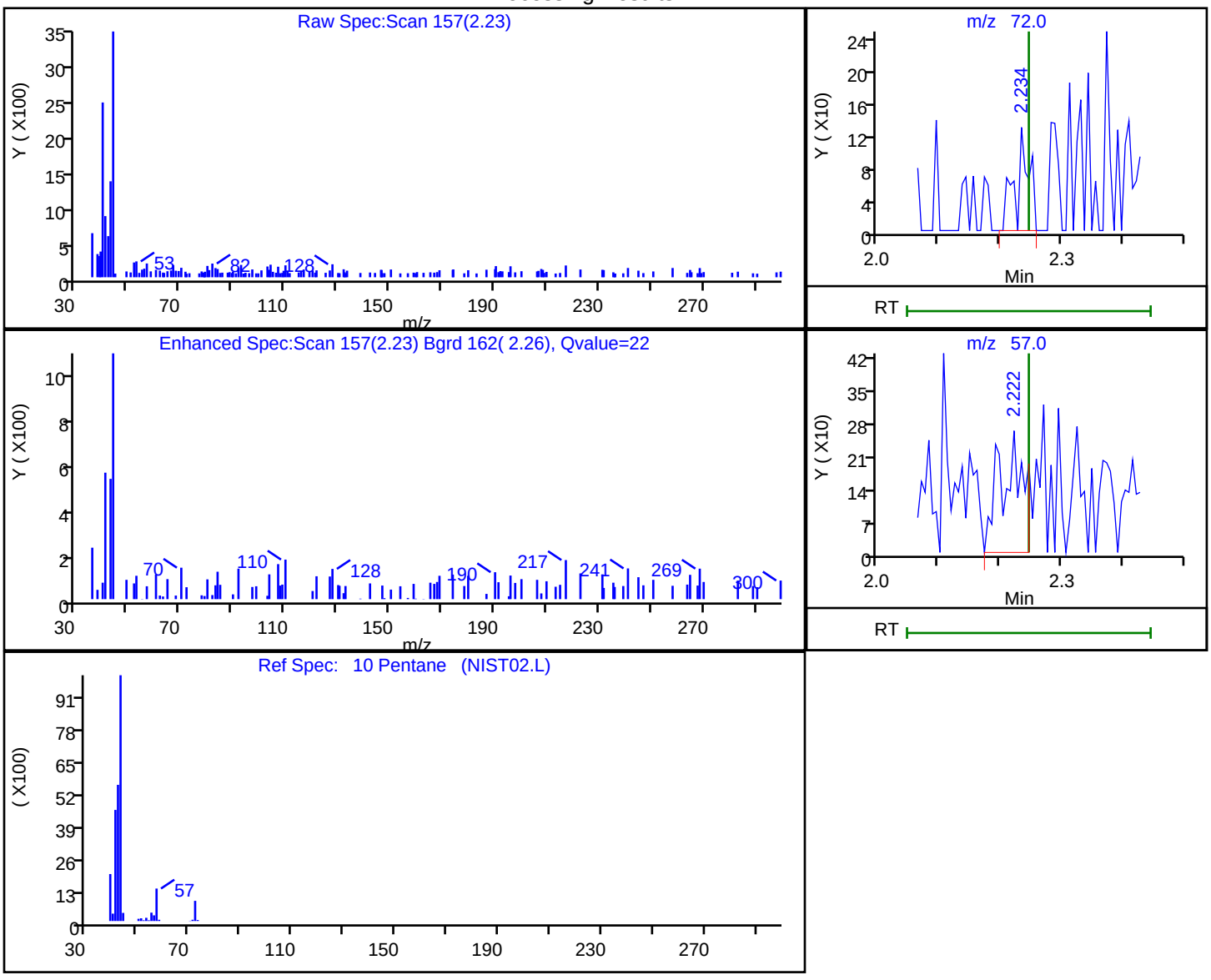
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

10 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
2.23	72.00	196	0.372048
2.22	57.00	659	

Reviewer: delpolitov, 05-Jun-2018 13:00:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

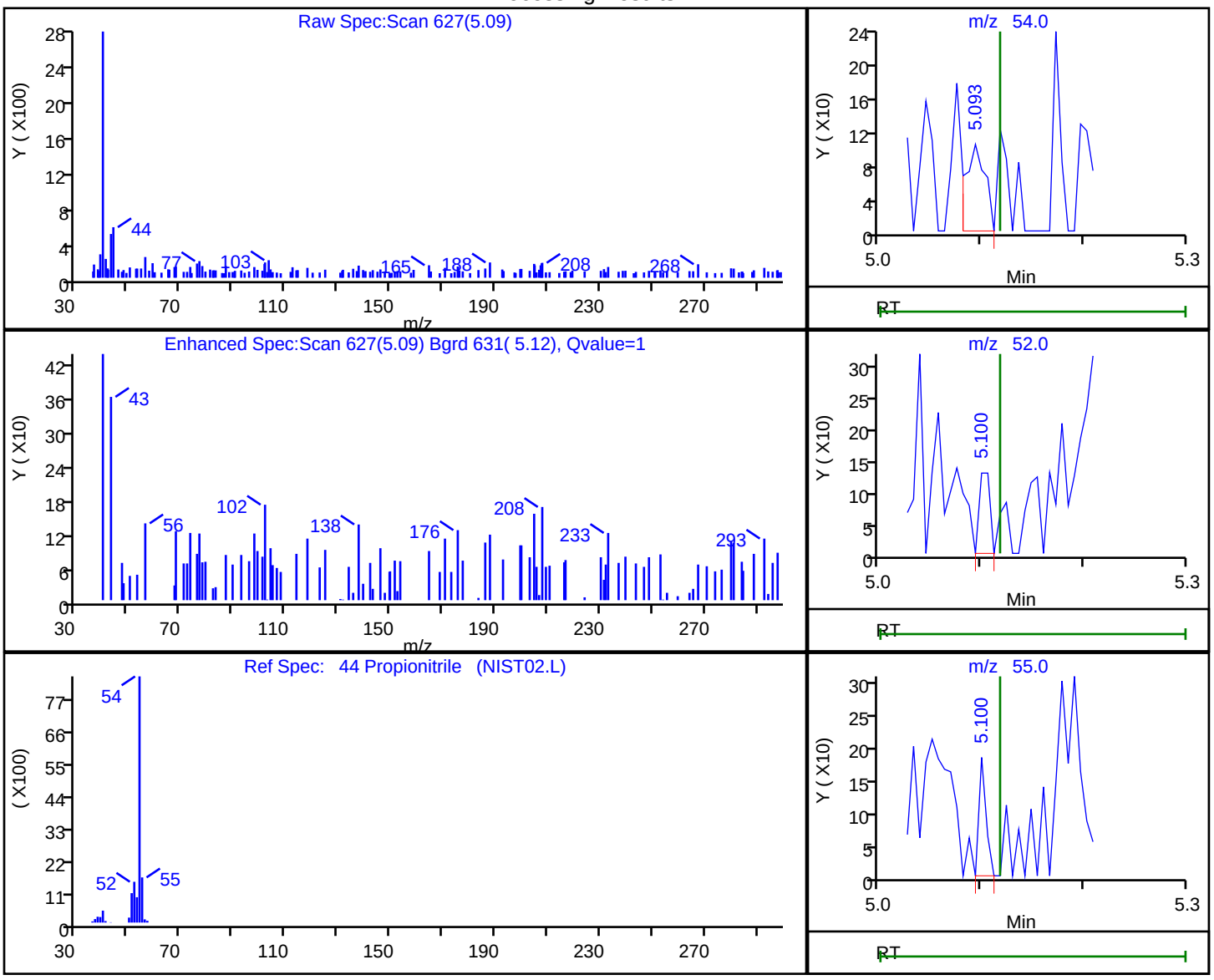
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
5.09	54.00	136	0.434211
5.10	52.00	92	
5.10	55.00	88	

Reviewer: delpolitov, 05-Jun-2018 13:01:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

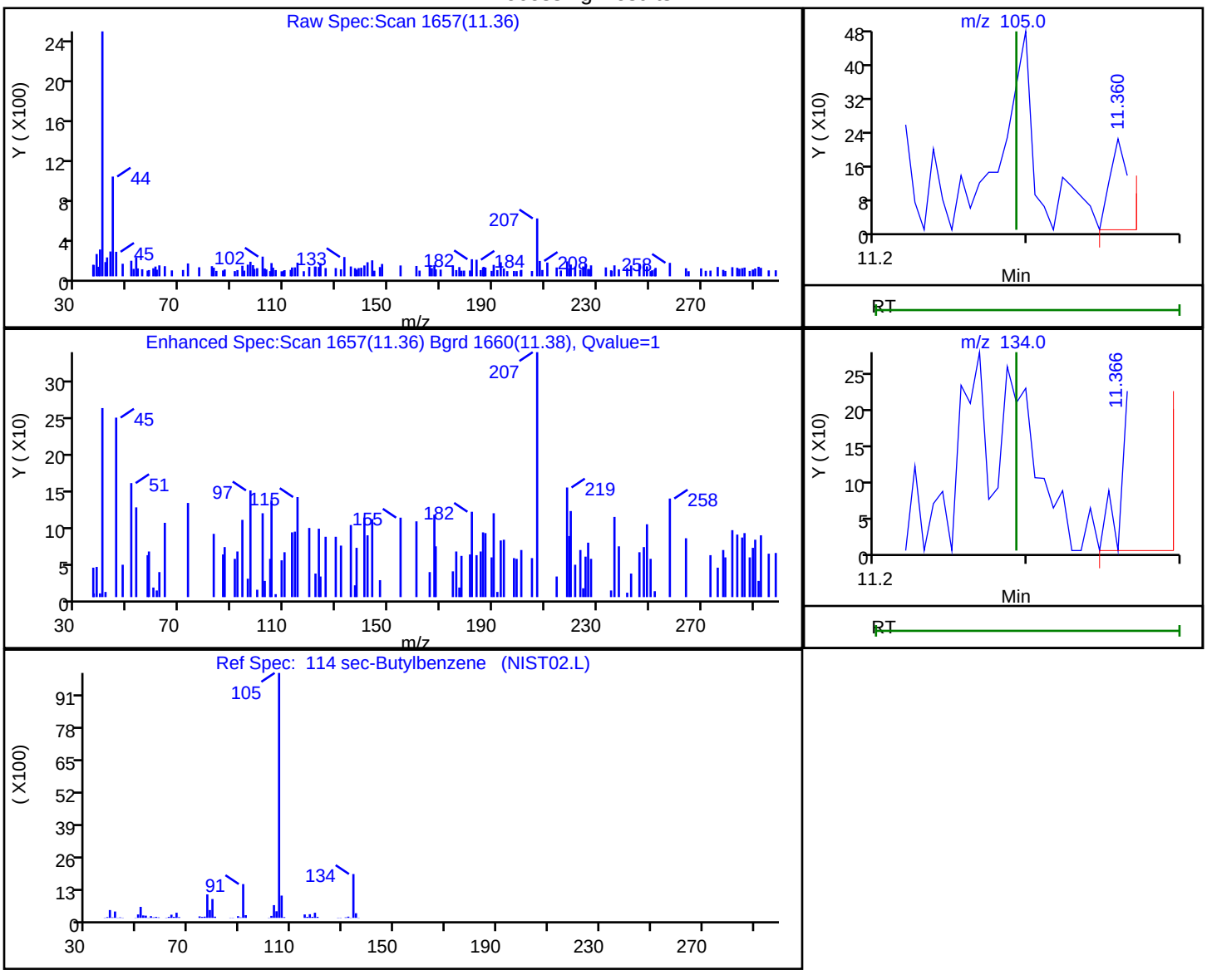
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
11.36	105.00	169	0.011621
11.37	134.00	189	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

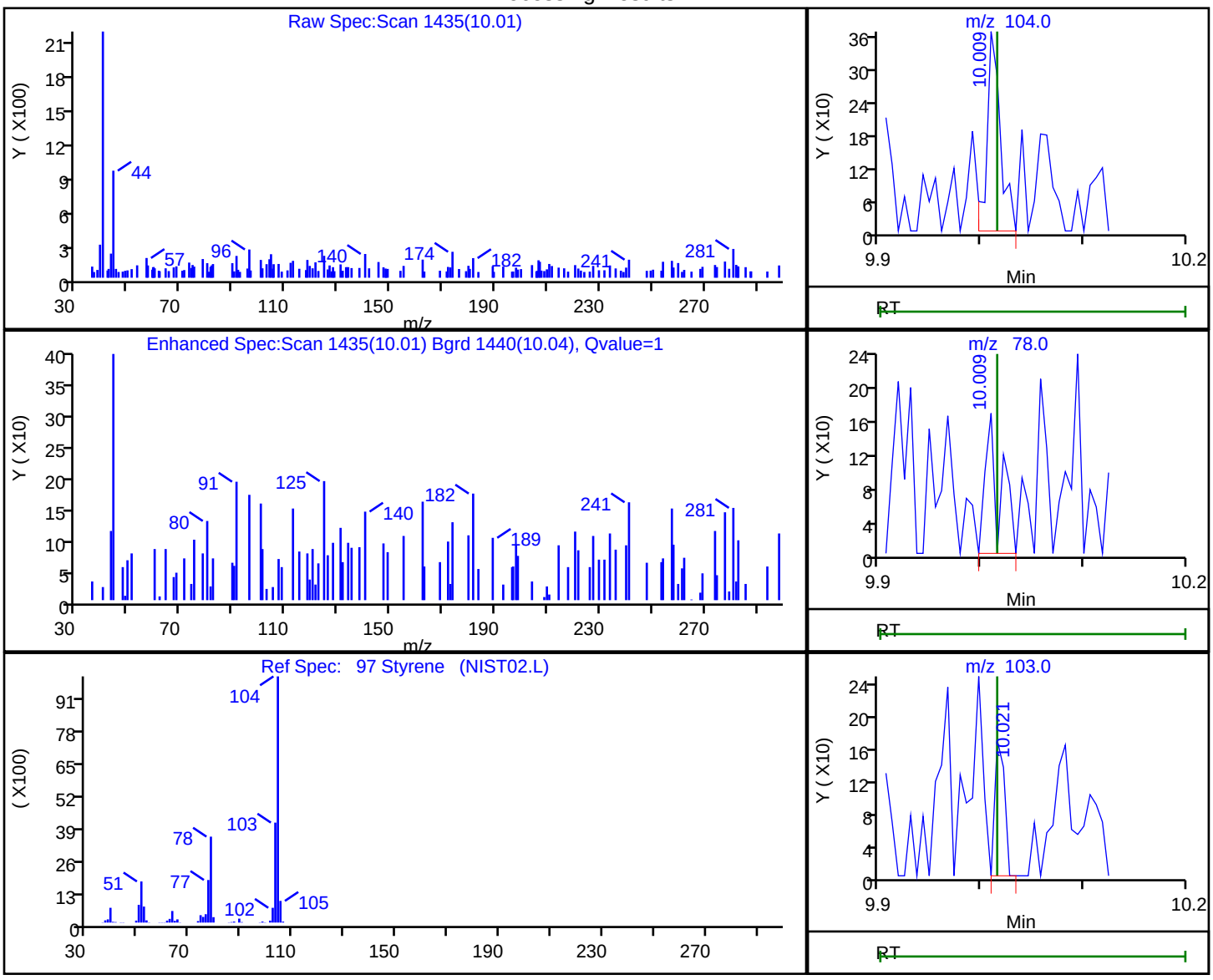
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
10.01	104.00	332	0.038937
10.01	78.00	165	
10.02	103.00	108	

Reviewer: delpolitov, 05-Jun-2018 13:01:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

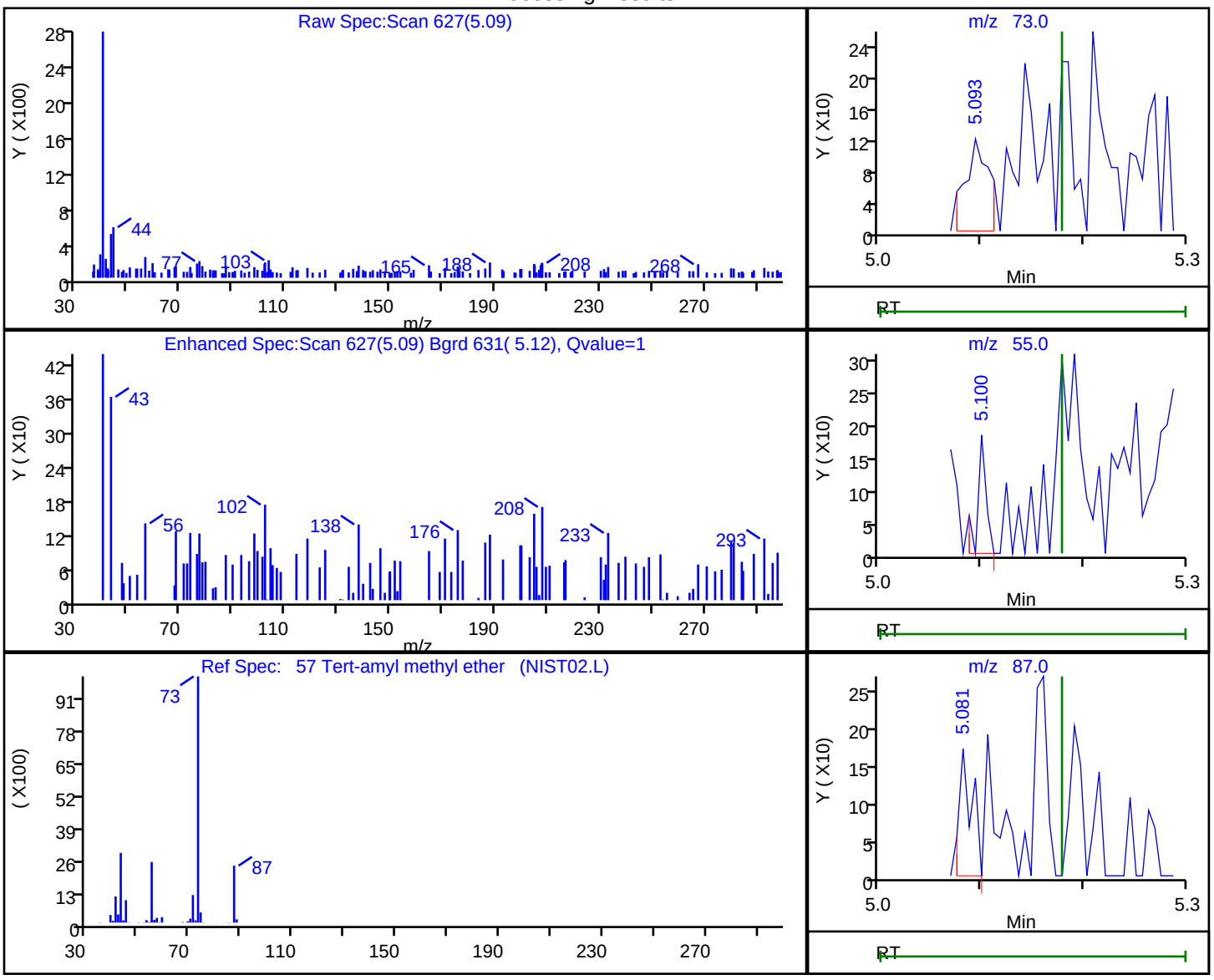
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

57 Tert-amyl methyl ether, CAS: 994-05-8

Processing Results



RT	Mass	Response	Amount
5.09	73.00	195	0.023299
5.10	55.00	109	
5.08	87.00	152	

Reviewer: delpolitov, 05-Jun-2018 13:01:05

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

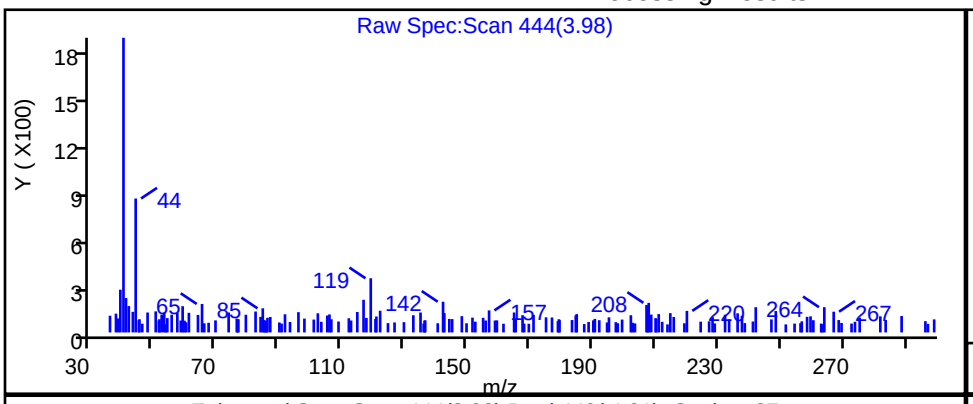
User Disabled Compound Report

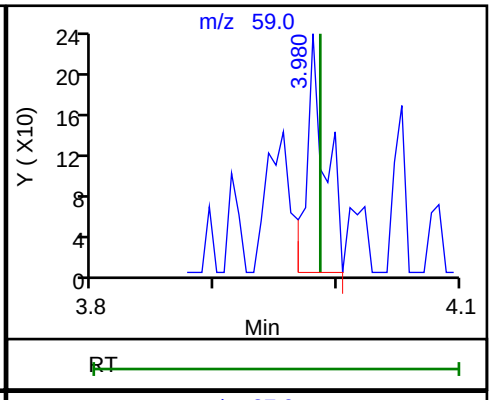
TestAmerica Edison

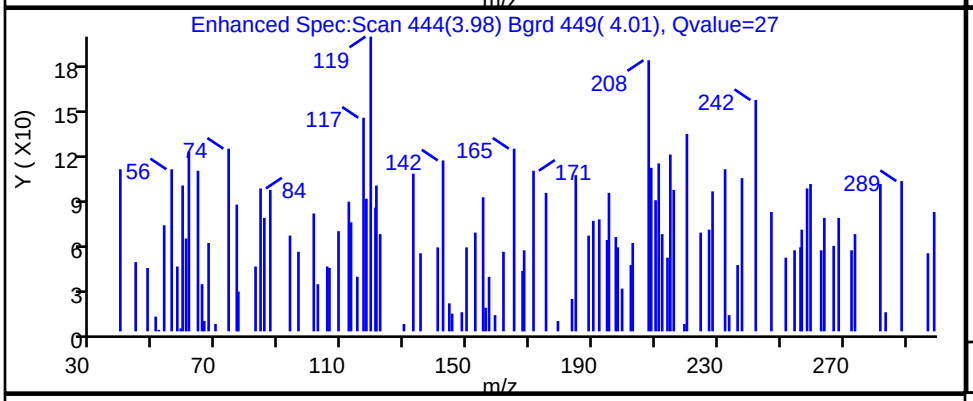
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

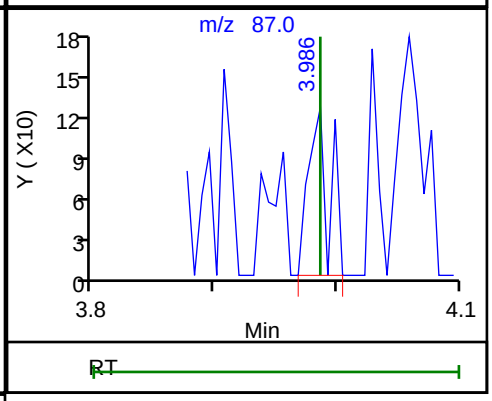
37 Tert-butyl ethyl ether, CAS: 637-92-3

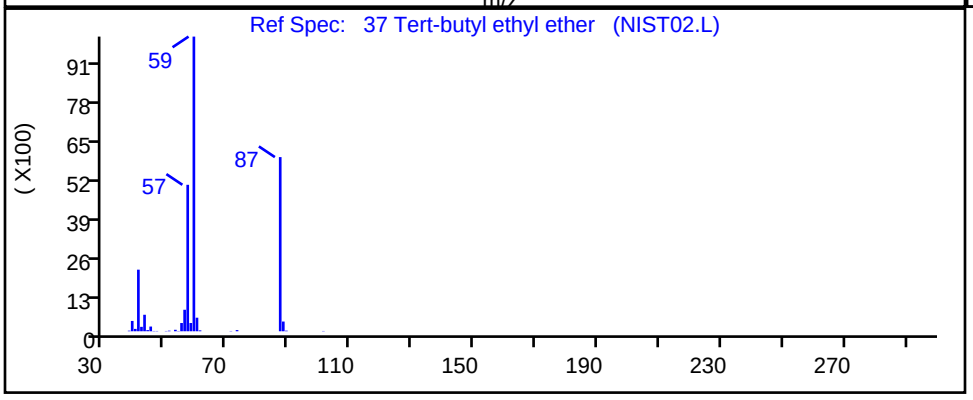
Processing Results











RT	Mass	Response	Amount
3.98	59.00	249	0.029059
3.99	87.00	147	

Reviewer: delpolitov, 05-Jun-2018 13:00:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

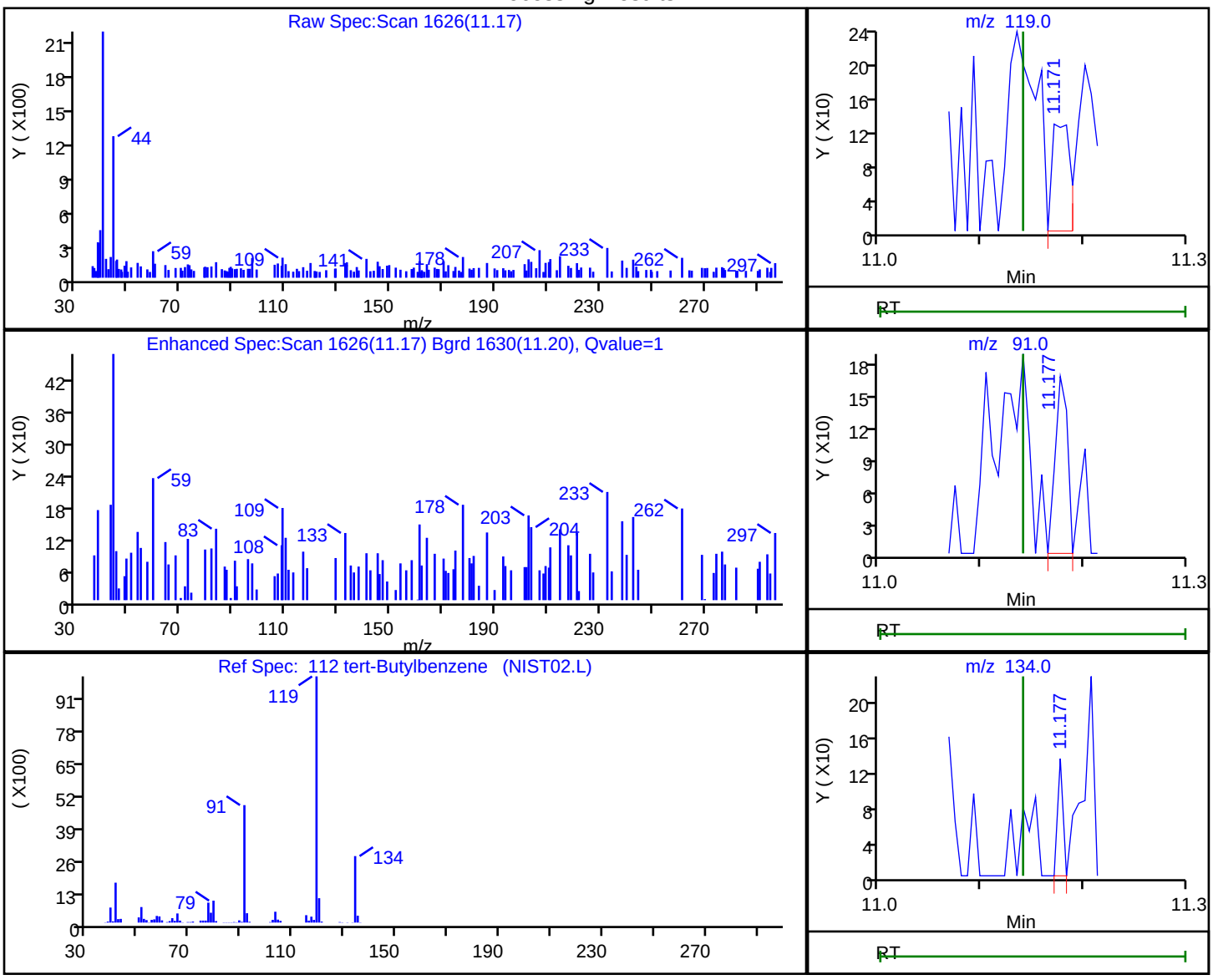
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
11.17	119.00	157	0.015730
11.18	91.00	137	
11.18	134.00	49	

Reviewer: delpolitov, 05-Jun-2018 13:01:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

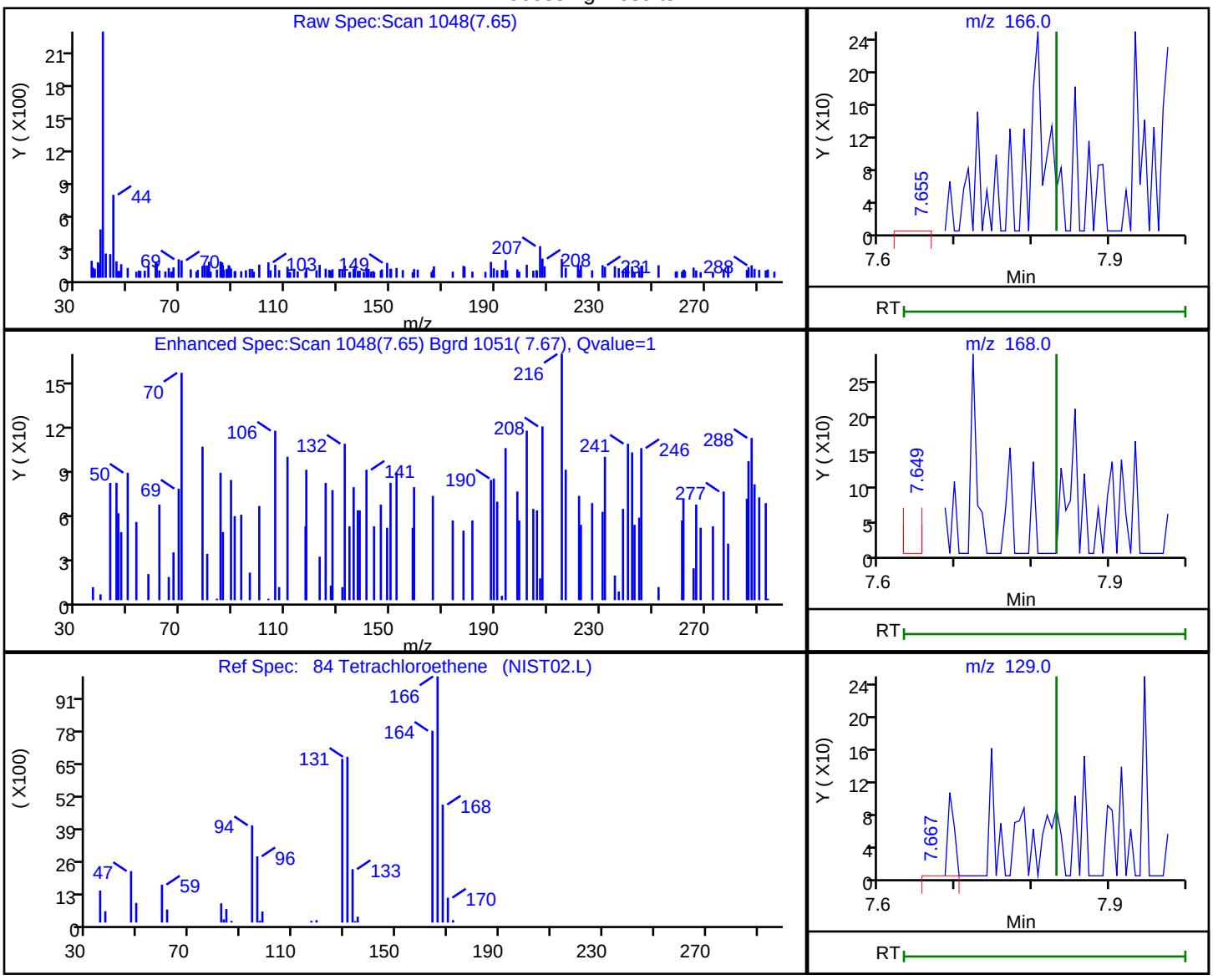
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

84 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
7.65	166.00	214	0.064186
7.65	168.00	129	
7.67	129.00	175	

Reviewer: delpolitov, 05-Jun-2018 13:01:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

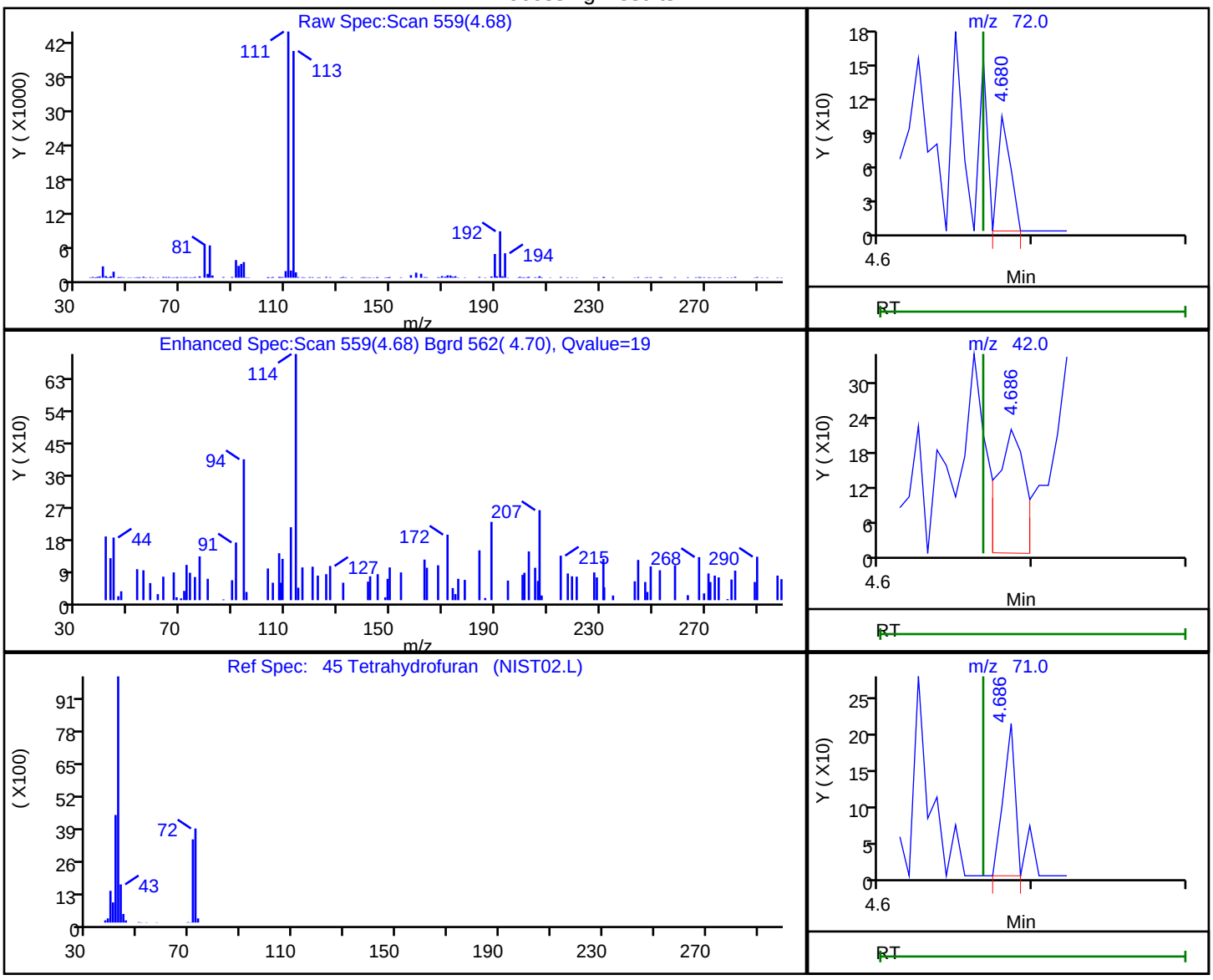
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

45 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
4.68	72.00	55	0.180563
4.69	42.00	278	
4.69	71.00	110	

Reviewer: delpolitov, 05-Jun-2018 13:01:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

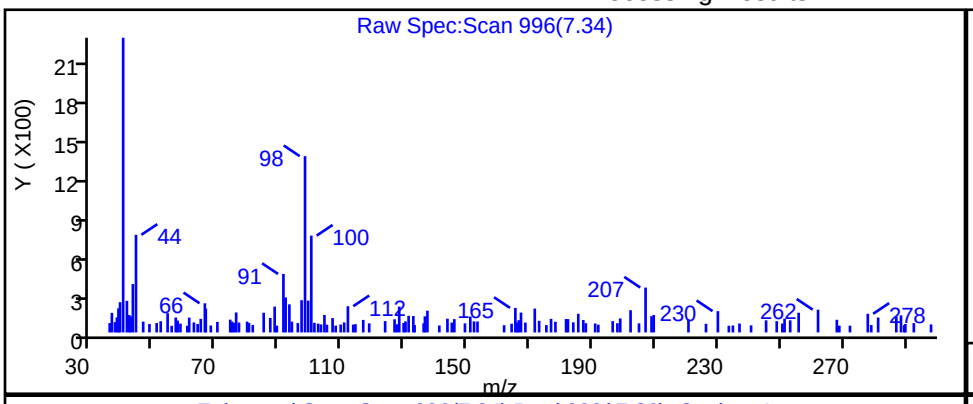
User Disabled Compound Report

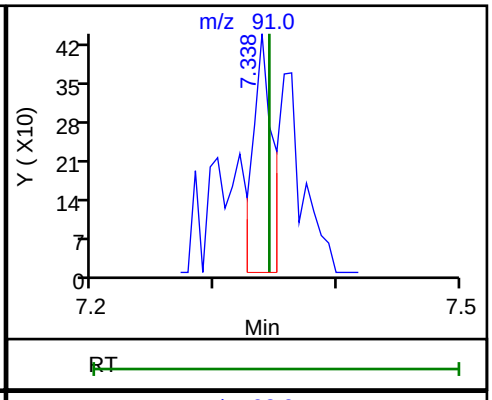
TestAmerica Edison

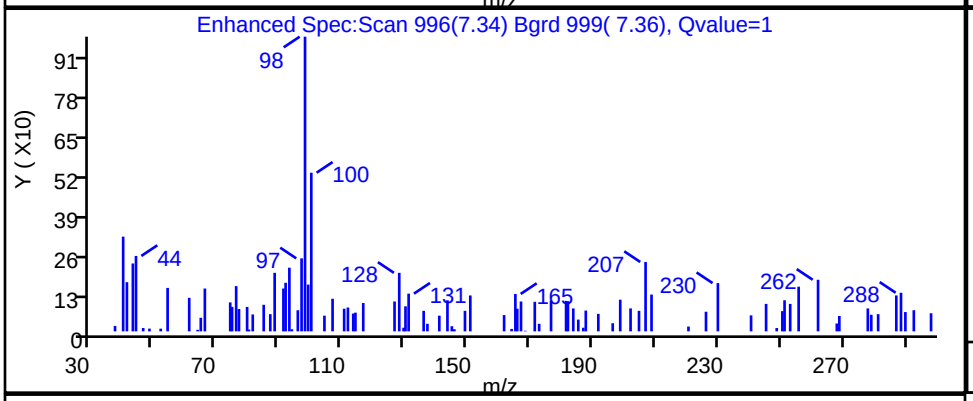
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

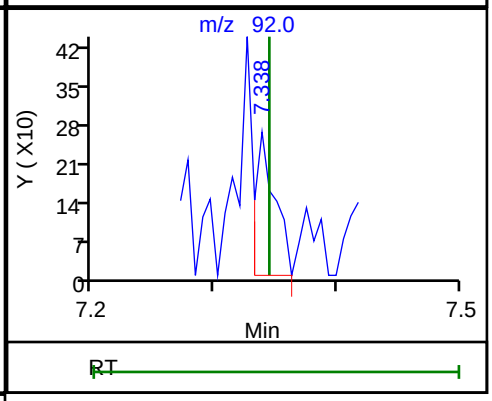
80 Toluene, CAS: 108-88-3

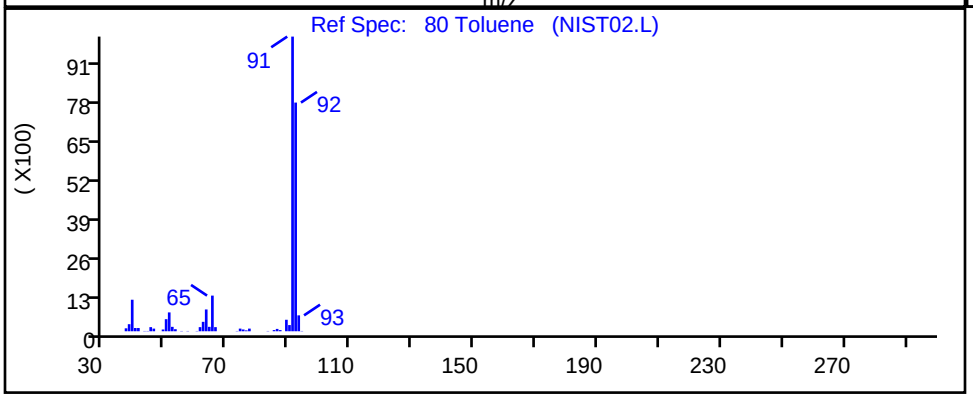
Processing Results











RT	Mass	Response	Amount
7.34	91.00	488	0.037438
7.34	92.00	290	

Reviewer: delpolitov, 05-Jun-2018 13:01:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

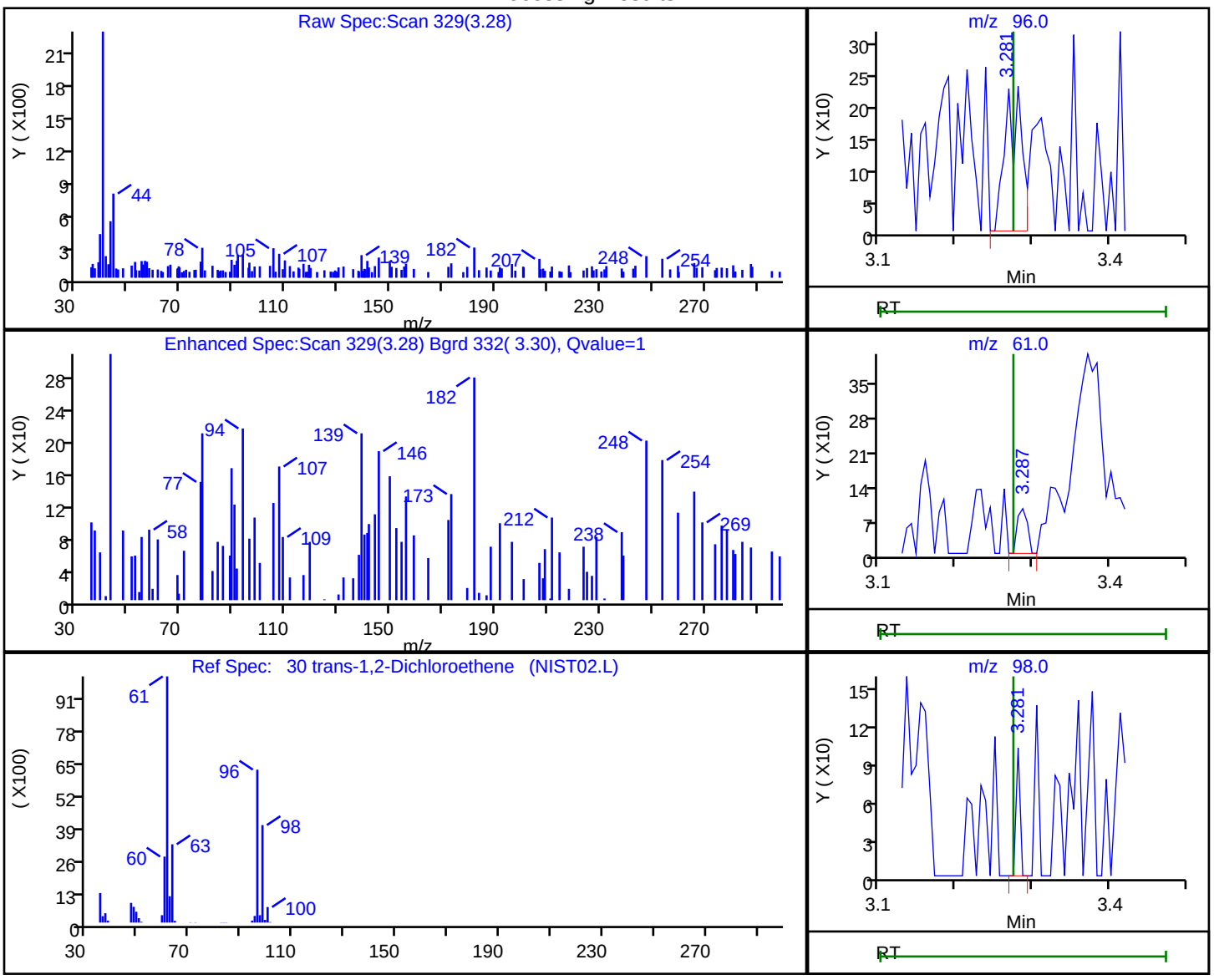
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.28	96.00	340	0.107181
3.29	61.00	83	
3.28	98.00	37	

Reviewer: delpolitov, 05-Jun-2018 13:00:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

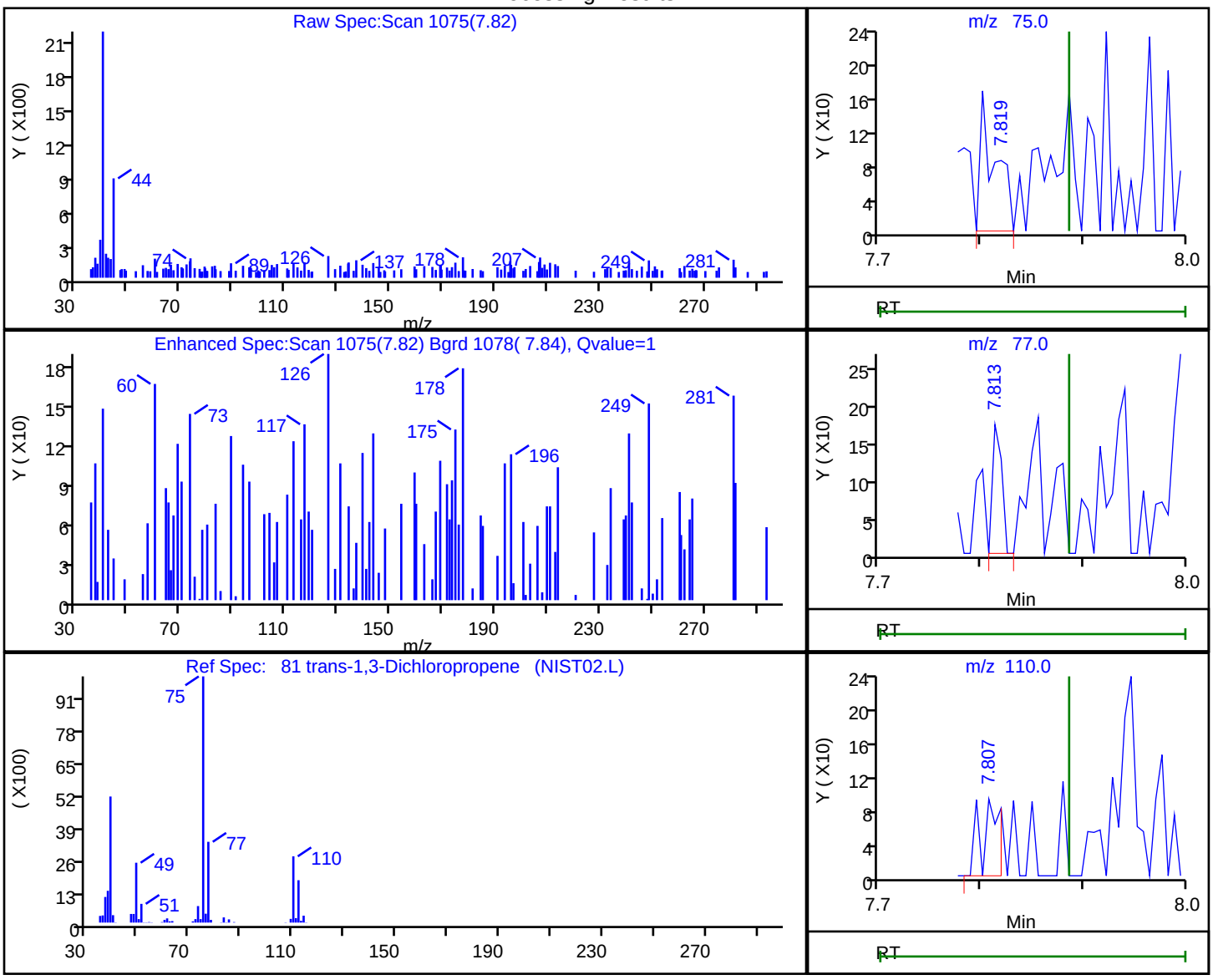
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

81 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
7.82	75.00	170	0.050118
7.81	77.00	110	
7.81	110.00	119	

Reviewer: delpolitov, 05-Jun-2018 13:01:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

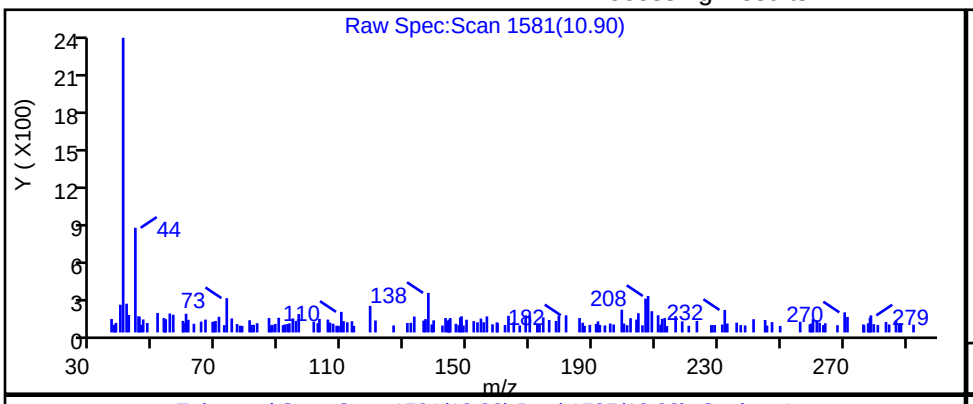
User Disabled Compound Report

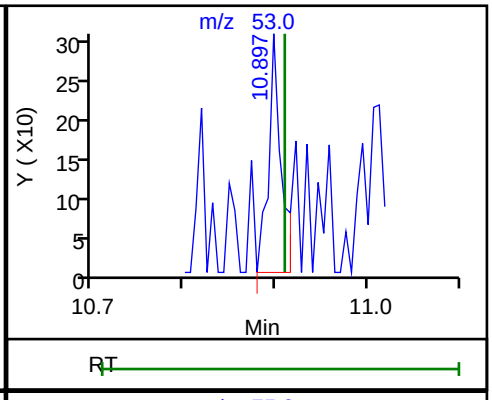
TestAmerica Edison

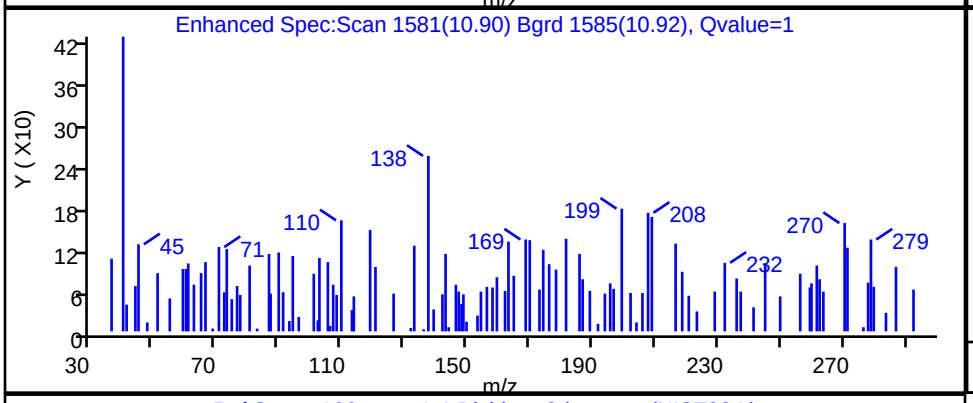
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

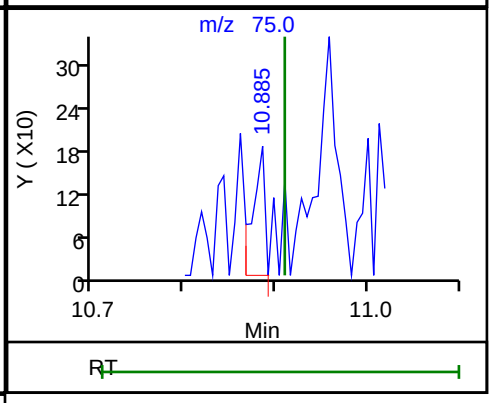
106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

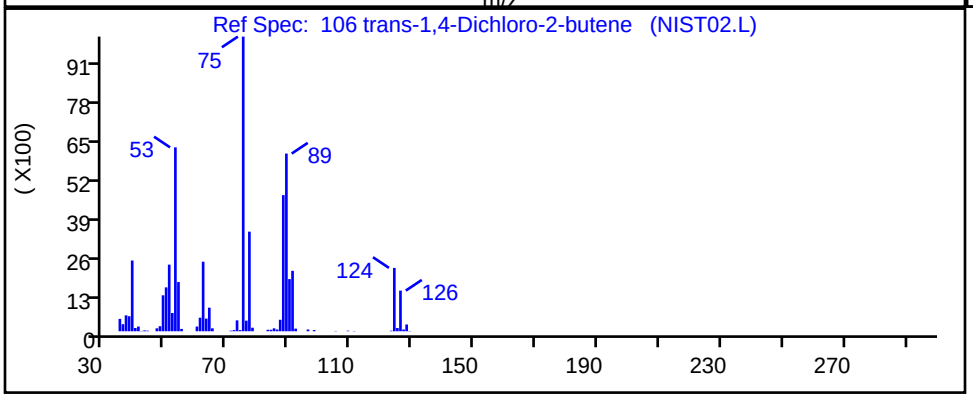
Processing Results











RT	Mass	Response	Amount
10.90	53.00	289	0.408734
10.88	75.00	165	

Reviewer: delpolitov, 05-Jun-2018 13:01:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

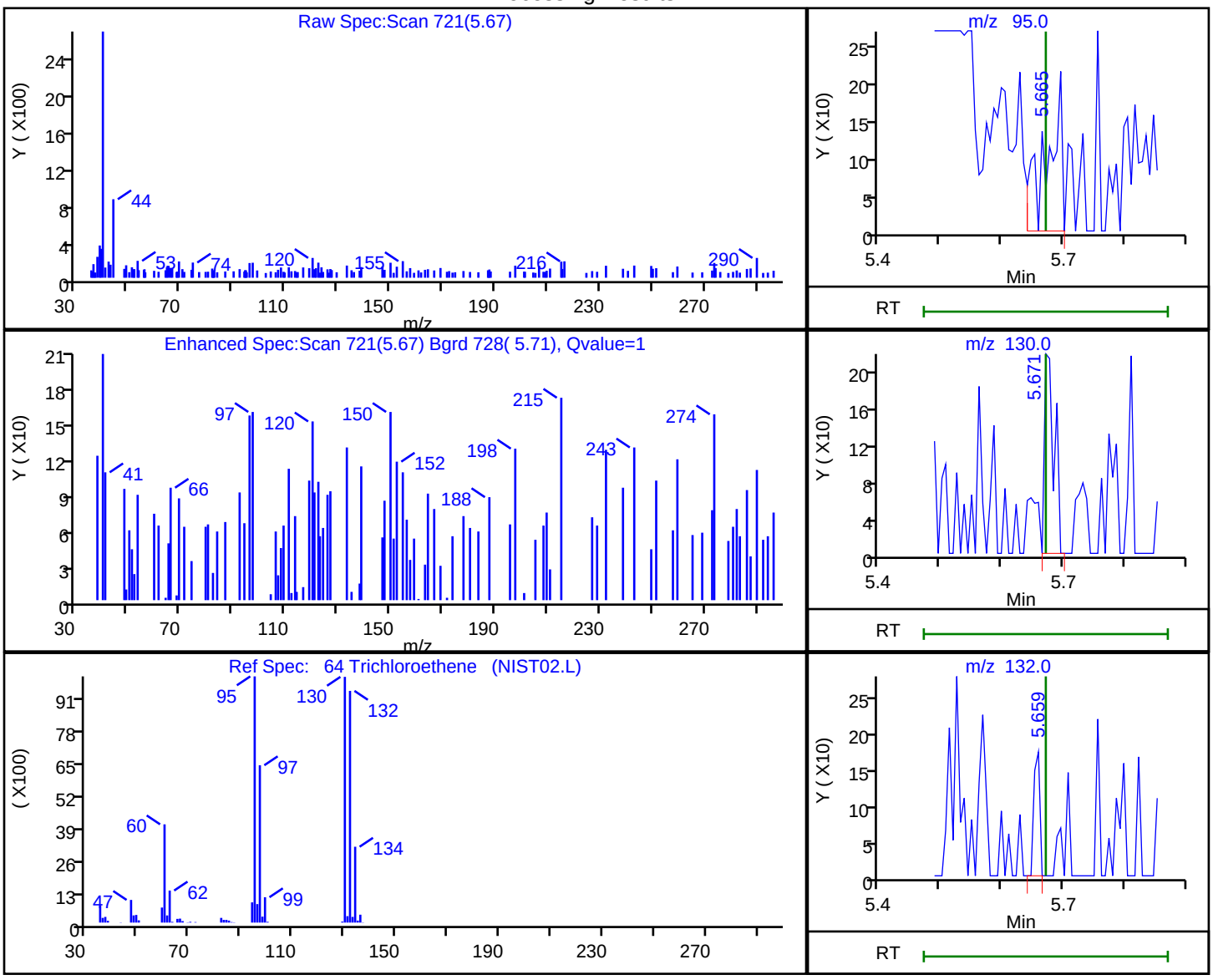
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D		
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

64 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
5.67	95.00	360	0.127471
5.67	130.00	239	
5.66	132.00	118	

Reviewer: delpolitov, 05-Jun-2018 13:01:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

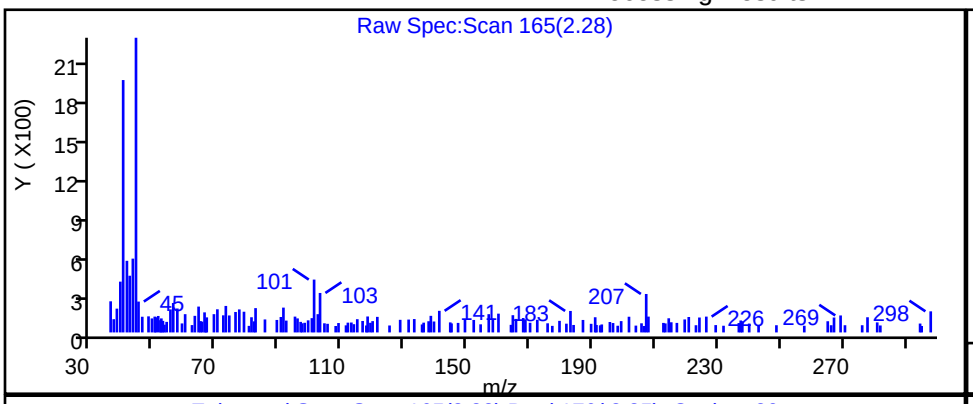
User Disabled Compound Report

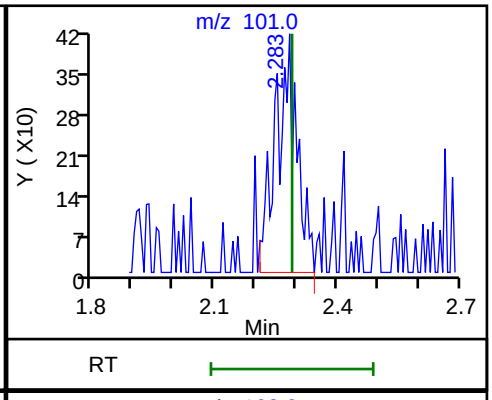
TestAmerica Edison

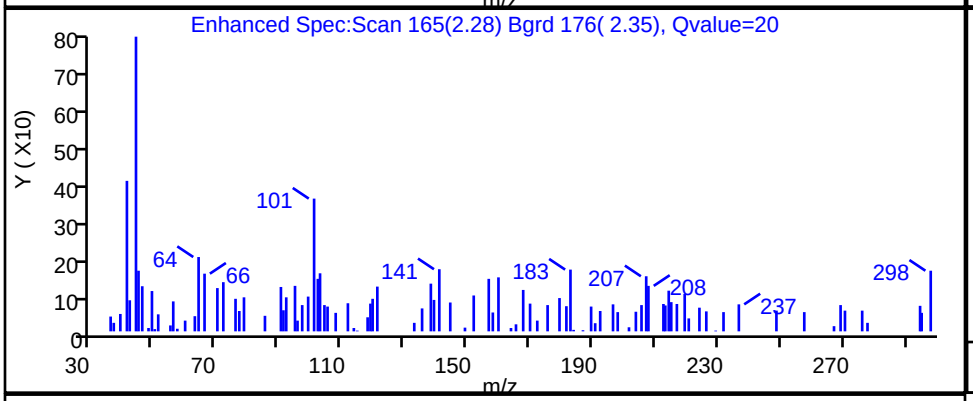
Data File:	\\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D				
Injection Date:	05-Jun-2018 09:01:30	Instrument ID:	CVOAMS11		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

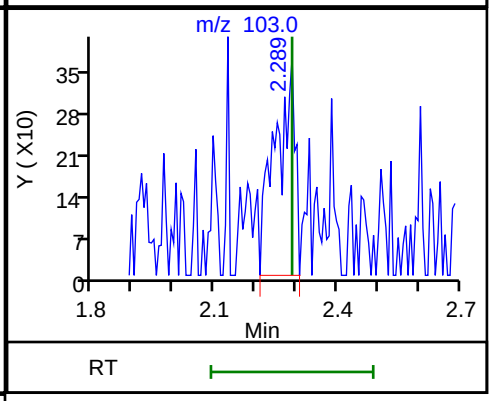
9 Trichlorofluoromethane, CAS: 75-69-4

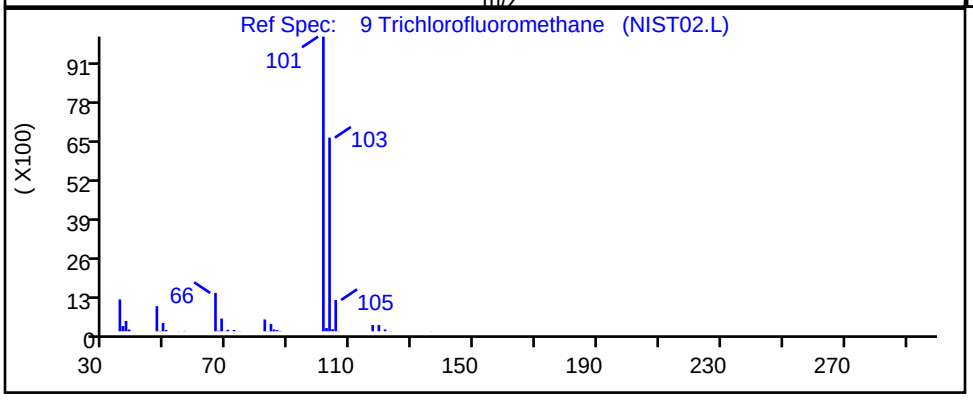
Processing Results











RT	Mass	Response	Amount
2.28	101.00	1484	0.283538
2.29	103.00	1233	

Reviewer: delpolitov, 05-Jun-2018 13:00:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

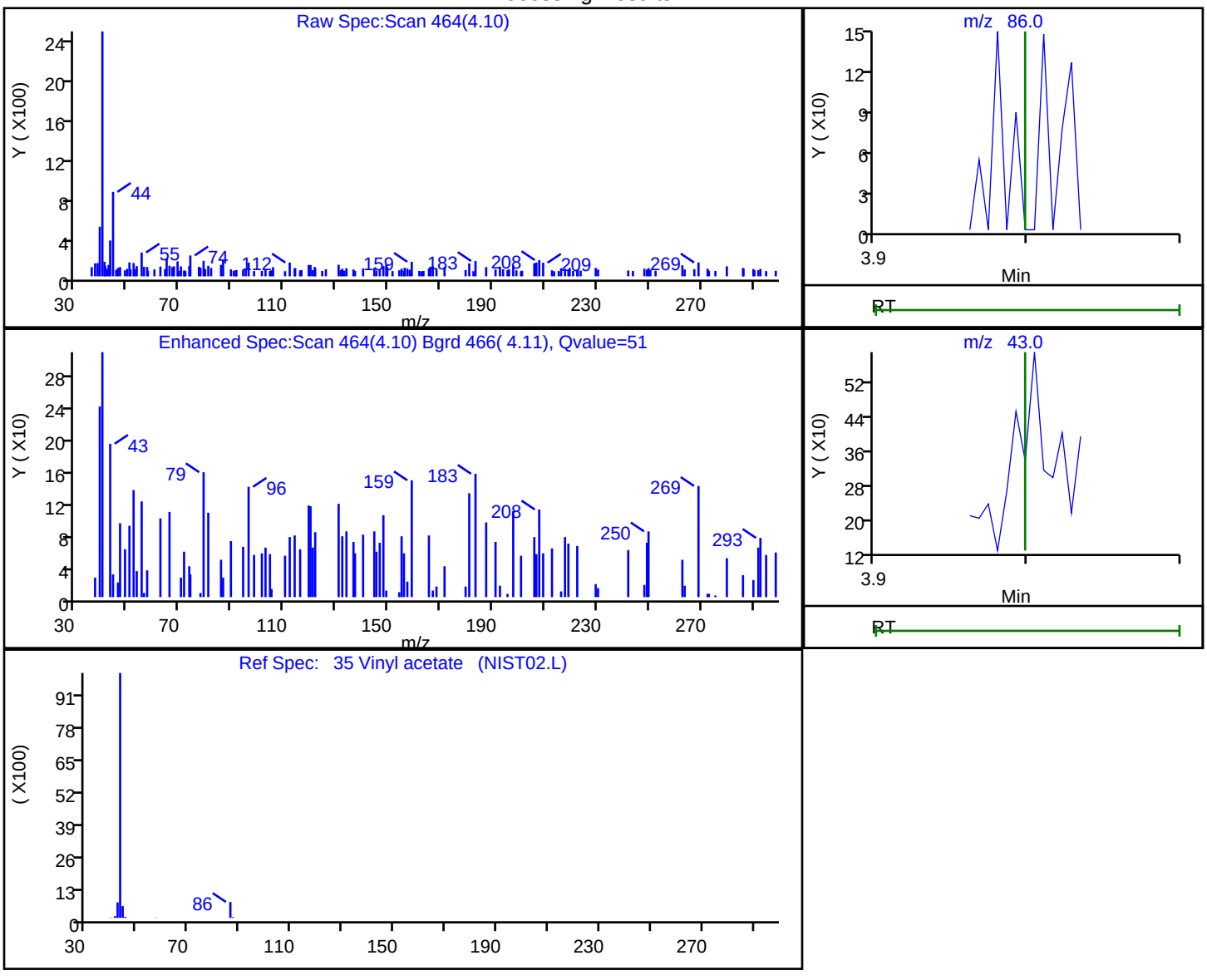
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
4.10	86.00	60	0.116174
4.10	43.00	224	

Reviewer: delpolitov, 05-Jun-2018 13:01:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

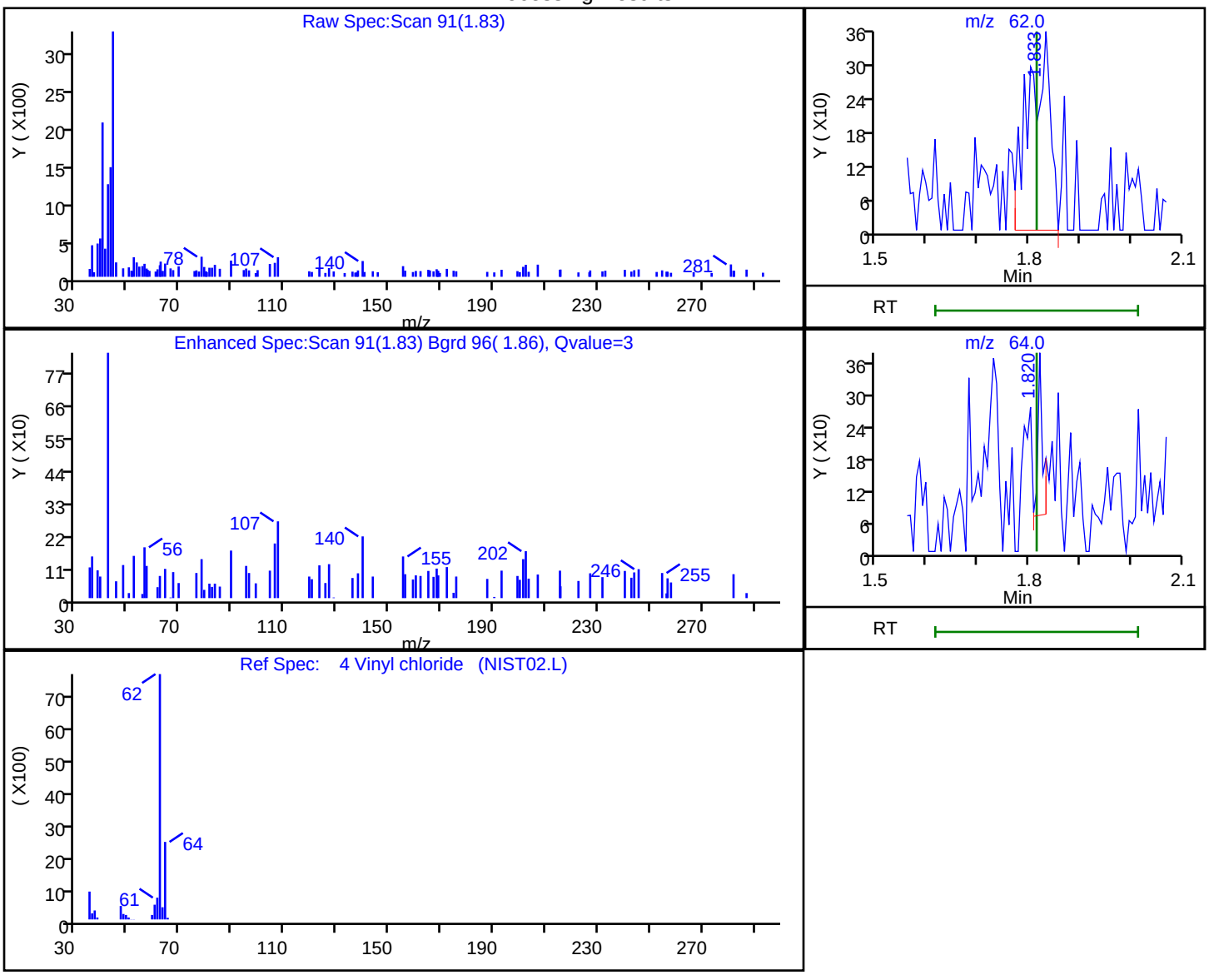
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672372.D
Injection Date: 05-Jun-2018 09:01:30 Instrument ID: CVOAMS11
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.83	62.00	1040	0.266863
1.82	64.00	197	

Reviewer: delpolitov, 05-Jun-2018 13:00:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jun-2018 09:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0073222-004
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:47:27 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: tupayachia Date: 05-Jun-2018 10:51:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.547	-0.006	36	2462	1.00	0.9685	
2 Dichlorodifluoromethane	87	1.583	1.571	0.012	56	1850	1.00	1.14	a
3 Chloromethane	52	1.711	1.741	-0.030	11	1275	1.00	1.04	Ma
5 Butadiene	54	1.790	1.796	-0.006	54	2600	1.00	0.7861	
4 Vinyl chloride	62	1.808	1.814	-0.006	70	3685	1.00	0.9333	
6 Bromomethane	94	2.070	2.076	-0.006	72	2745	1.00	1.16	
7 Chloroethane	64	2.167	2.161	0.006	78	1958	1.00	1.01	
10 Pentane	72	2.240	2.246	-0.006	96	1060	2.00	1.96	
9 Trichlorofluoromethane	101	2.289	2.289	0.000	51	4908	1.00	0.9361	
8 Dichlorofluoromethane	67	2.319	2.325	-0.006	84	5533	1.00	0.9180	
12 Ethyl ether	59	2.484	2.490	-0.006	72	2295	1.00	1.05	
13 2-Methyl-1,3-butadiene	53	2.471	2.490	-0.019	88	2857	1.00	1.15	a
11 Ethanol	46	2.617	2.623	-0.006	66	443	40.0	34.7	M
17 1,1-Dichloroethene	96	2.660	2.666	-0.006	97	2583	1.00	0.9145	
14 1,2-Dichloro-1,1,2-trifluo	117	2.666	2.684	-0.018	68	3940	1.00	1.18	
20 Carbon disulfide	76	2.690	2.709	-0.019	99	9789	1.00	0.9871	
15 1,1,2-Trichloro-1,2,2-trif	101	2.709	2.721	-0.012	45	3420	1.00	1.00	
19 Iodomethane	142	2.794	2.800	-0.006	96	5649	1.00	1.03	
23 Cyclopentene	67	2.903	2.909	-0.006	95	6856	1.00	0.9782	
16 Acrolein	56	2.922	2.940	-0.018	49	1659	4.00	4.86	
22 3-Chloro-1-propene	76	3.049	3.055	-0.006	94	1844	1.00	1.09	
21 Isopropyl alcohol	45	3.055	3.068	-0.013	12	1250	10.0	9.91	
26 Methylene Chloride	84	3.135	3.147	-0.013	85	4404	1.00	1.30	
18 Acetone	58	3.195	3.189	0.006	58	1231	5.00	6.21	
24 Methyl acetate	74	3.250	3.274	-0.024	9	694	2.00	1.87	Ma
30 trans-1,2-Dichloroethene	96	3.268	3.274	-0.006	90	3995	1.00	1.23	
32 Hexane	56	3.317	3.323	-0.006	33	2589	1.00	1.05	
* 27 TBA-d9 (IS)	65	3.366	3.366	0.000	41	201406	1000.0	1000.0	M
29 Methyl tert-butyl ether	73	3.360	3.366	-0.006	35	8619	1.00	1.02	
28 2-Methyl-2-propanol	59	3.427	3.433	-0.006	28	3259	10.0	13.3	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.566	3.585	-0.019	1	1023	10.0	7.38	Ma
33 Isopropyl ether	45	3.652	3.664	-0.012	96	9550	1.00	1.04	
36 2-Chloro-1,3-butadiene	88	3.761	3.773	-0.012	37	2838	1.00	1.10	
34 1,1-Dichloroethane	63	3.785	3.798	-0.013	97	5466	1.00	1.09	
31 Acrylonitrile	53	3.840	3.846	-0.006	94	8731	10.0	10.6	
37 Tert-butyl ethyl ether	59	3.974	3.986	-0.012	81	8793	1.00	1.00	
35 Vinyl acetate	86	3.992	3.998	-0.006	97	1114	2.00	2.00	
40 cis-1,2-Dichloroethene	96	4.278	4.272	0.006	93	3899	1.00	1.14	
38 2,2-Dichloropropane	79	4.388	4.388	0.000	54	1321	1.00	0.9405	Ma
46 Chlorobromomethane	128	4.467	4.461	0.006	72	2159	1.00	1.25	a
49 Cyclohexane	84	4.461	4.461	0.000	90	7492	1.00	1.25	a
48 Chloroform	83	4.515	4.521	-0.006	91	5170	1.00	1.03	
42 Ethyl acetate	70	4.613	4.619	-0.006	96	669	2.00	2.47	M
43 Methyl acrylate	55	4.625	4.625	0.000	32	2425	1.00	1.25	a
52 Carbon tetrachloride	117	4.649	4.655	-0.006	65	3477	1.00	0.9231	
45 Tetrahydrofuran	72	4.668	4.667	0.001	29	824	2.00	2.47	
$ 51 Dibromofluoromethane (Surr	113	4.686	4.692	-0.006	97	126825	50.0	48.7	
50 1,1,1-Trichloroethane	97	4.710	4.722	-0.012	55	4665	1.00	0.9847	a
* 39 2-Butanone-d5	46	4.753	4.759	-0.006	0	195675	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	85	1126	5.00	4.15	
53 1,1-Dichloropropene	75	4.832	4.832	0.000	80	4176	1.00	1.06	a
54 Isooctane	57	4.923	4.929	-0.006	97	6404	1.00	0.8422	a
61 n-Heptane	57	5.008	5.020	-0.012	52	2175	1.00	1.09	
55 Benzene	78	5.069	5.075	-0.006	89	12164	1.00	1.04	
44 Propionitrile	54	5.100	5.118	-0.018	38	3234	10.0	10.6	
47 Methacrylonitrile	67	5.124	5.130	-0.006	88	9896	10.0	10.4	
57 Tert-amyl methyl ether	73	5.179	5.179	0.001	64	8199	1.00	0.9560	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.209	5.215	-0.006	96	125945	50.0	48.5	
58 Isobutyl alcohol	43	5.288	5.282	0.006	31	1990	25.0	23.0	
60 1,2-Dichloroethane	62	5.276	5.288	-0.012	91	4237	1.00	1.23	
* 62 Fluorobenzene	96	5.489	5.495	-0.006	100	541013	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	32	4053	1.00	1.00	
65 Methylcyclohexane	83	5.647	5.659	-0.012	89	5722	1.00	1.01	
64 Trichloroethene	95	5.677	5.671	0.006	90	3358	1.00	1.13	a
63 n-Butanol	56	6.036	6.030	0.006	32	1179	25.0	22.5	M
71 Dibromomethane	93	6.128	6.134	-0.006	69	1695	1.00	1.08	
67 1,2-Dichloropropane	63	6.237	6.243	-0.006	75	2762	1.00	1.01	
66 Ethyl acrylate	55	6.268	6.261	0.007	42	3162	1.00	1.19	
73 Dichlorobromomethane	83	6.310	6.316	-0.006	71	3157	1.00	0.9680	
69 Methyl methacrylate	100	6.487	6.493	-0.006	48	1951	2.00	2.64	M
* 68 1,4-Dioxane-d8	96	6.505	6.505	0.000	44	27228	1000.0	1000.0	
70 1,4-Dioxane	88	6.566	6.535	0.031	27	2067	50.0	60.6	Ma
72 n-Propyl acetate	43	6.657	6.663	-0.006	84	2791	1.00	1.00	
75 2-Chloroethyl vinyl ether	63	6.985	6.991	-0.006	34	1308	1.00	0.9235	
77 cis-1,3-Dichloropropene	75	7.046	7.058	-0.012	68	3848	1.00	0.99	a
$ 79 Toluene-d8 (Surr)	98	7.277	7.283	-0.006	99	531450	50.0	50.4	
80 Toluene	91	7.344	7.344	0.000	93	14525	1.00	1.13	
76 Epichlorohydrin	57	7.381	7.375	0.006	90	4971	20.0	23.8	
74 2-Nitropropane	41	7.649	7.661	-0.012	87	681	2.00	1.96	M
84 Tetrachloroethene	166	7.819	7.831	-0.012	91	3808	1.00	1.15	
78 4-Methyl-2-pentanone (MIBK	43	7.837	7.849	-0.012	96	9699	5.00	4.89	
81 trans-1,3-Dichloropropene	75	7.892	7.886	0.006	72	3262	1.00	0.9565	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.099	8.105	-0.006	85	2348	1.00	1.26	
82 Ethyl methacrylate	69	8.105	8.117	-0.012	73	3141	1.00	1.02	
88 Chlorodibromomethane	129	8.330	8.330	0.000	44	2091	1.00	0.9452	
85 1,3-Dichloropropane	76	8.464	8.464	0.000	82	4889	1.00	1.19	
89 Ethylene Dibromide	107	8.634	8.640	-0.006	64	2259	1.00	1.03	
87 n-Butyl acetate	43	8.853	8.859	-0.006	91	3051	1.00	0.9793	
86 2-Hexanone	58	8.956	8.962	-0.006	95	3423	5.00	4.64	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	84	411156	50.0	50.0	
91 Chlorobenzene	112	9.285	9.285	0.000	39	8415	1.00	1.00	
92 Ethylbenzene	106	9.322	9.328	-0.006	92	4675	1.00	1.01	
93 1,1,1,2-Tetrachloroethane	131	9.376	9.370	0.006	59	2748	1.00	0.9862	
94 m-Xylene & p-Xylene	106	9.498	9.492	0.006	0	5963	1.00	1.07	
96 o-Xylene	106	9.954	9.954	0.000	94	5163	1.00	0.9448	
97 Styrene	104	10.009	10.015	-0.006	97	7777	1.00	0.9217	
99 Bromoform	173	10.033	10.027	0.006	63	1360	1.00	1.04	
95 n-Butyl acrylate	73	10.167	10.167	0.000	94	1243	1.00	0.7421	
100 Isopropylbenzene	105	10.271	10.277	-0.006	96	13040	1.00	0.9057	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	91	3819	1.00	0.9538	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	93	163697	50.0	48.8	
102 Bromobenzene	156	10.629	10.635	-0.006	95	3780	1.00	1.03	
104 N-Propylbenzene	91	10.672	10.672	0.000	99	14592	1.00	0.9264	
103 1,1,2,2-Tetrachloroethane	83	10.751	10.751	0.000	91	3446	1.00	1.23	
108 4-Ethyltoluene	105	10.775	10.775	0.000	96	12163	1.00	0.8874	
107 2-Chlorotoluene	91	10.806	10.806	0.000	95	10349	1.00	0.9401	
109 1,3,5-Trimethylbenzene	105	10.855	10.861	-0.006	94	10718	1.00	0.9043	
105 1,2,3-Trichloropropane	110	10.873	10.867	0.006	61	1241	1.00	1.27	
106 trans-1,4-Dichloro-2-buten	53	10.909	10.909	0.000	44	876	1.00	1.22	
110 4-Chlorotoluene	91	10.958	10.958	0.000	94	8958	1.00	0.9209	
112 tert-Butylbenzene	119	11.134	11.140	-0.006	92	8969	1.00	0.8872	
111 Butyl Methacrylate	87	11.140	11.140	0.000	56	2778	1.00	0.7975	
113 1,2,4-Trimethylbenzene	105	11.201	11.201	0.000	95	12009	1.00	0.9626	
114 sec-Butylbenzene	105	11.293	11.293	0.001	98	12963	1.00	0.8800	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	99	11632	1.00	0.8768	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	7787	1.00	1.05	
* 117 1,4-Dichlorobenzene-d4	152	11.536	11.536	0.000	94	237658	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	38	7764	1.00	1.05	
134 1,2,3-Trimethylbenzene	105	11.572	11.572	0.000	94	12533	1.00	0.9347	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	95	12443	1.00	0.9273	
121 p-Diethylbenzene	119	11.725	11.724	0.001	96	5970	1.00	0.8360	
119 Benzyl chloride	126	11.755	11.767	-0.012	88	1077	1.00	0.9478	
122 n-Butylbenzene	92	11.773	11.773	0.000	95	5731	1.00	0.9047	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	96	8030	1.00	1.10	
124 1,2,4,5-Tetramethylbenzene	119	12.369	12.369	0.000	96	10100	1.00	0.8012	
125 1,2-Dibromo-3-Chloropropan	155	12.534	12.546	-0.012	10	569	1.00	1.13	a
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	97	5690	1.00	0.9881	
128 Hexachlorobutadiene	225	13.020	13.026	-0.006	84	2170	1.00	1.18	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	94	4932	1.00	0.9183	
129 Naphthalene	128	13.312	13.312	0.000	98	10660	1.00	0.9179	
130 1,2,3-Trichlorobenzene	180	13.458	13.464	-0.006	94	5138	1.00	1.03	
S 131 1,2-Dichloroethene, Total	100				0		2.00	2.37	
S 132 Xylenes, Total	100				0		2.00	2.01	
S 133 Total BTEX	1				0		5.00	5.19	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00257	Amount Added:	1.00	Units: uL	
MIX I Hi_00094	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
14DIOXINTER_00085	Amount Added:	30.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Jun-2018 14:47:33 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D

Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11 Operator ID:

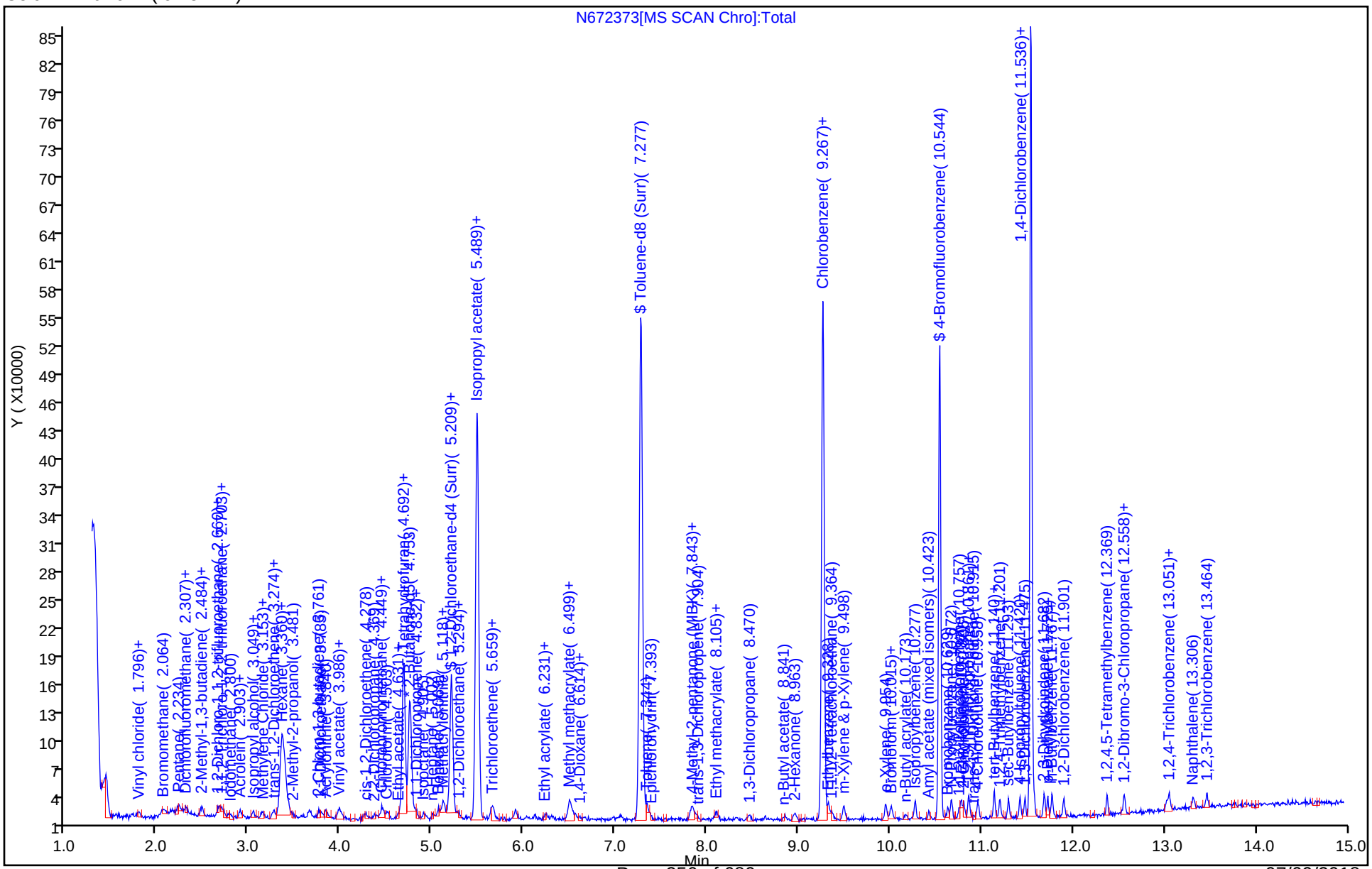
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

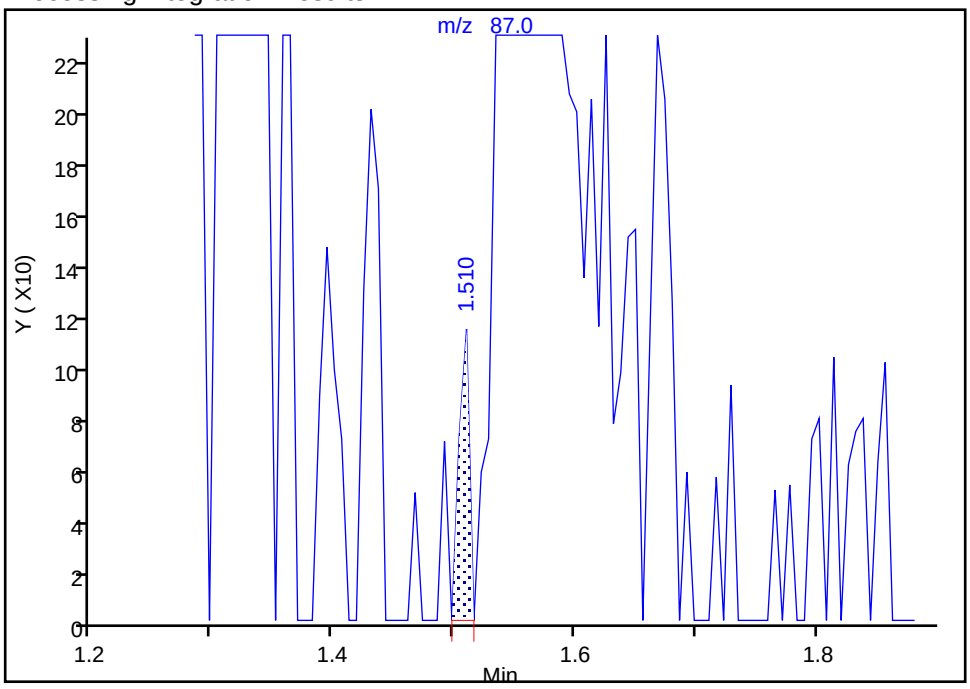
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

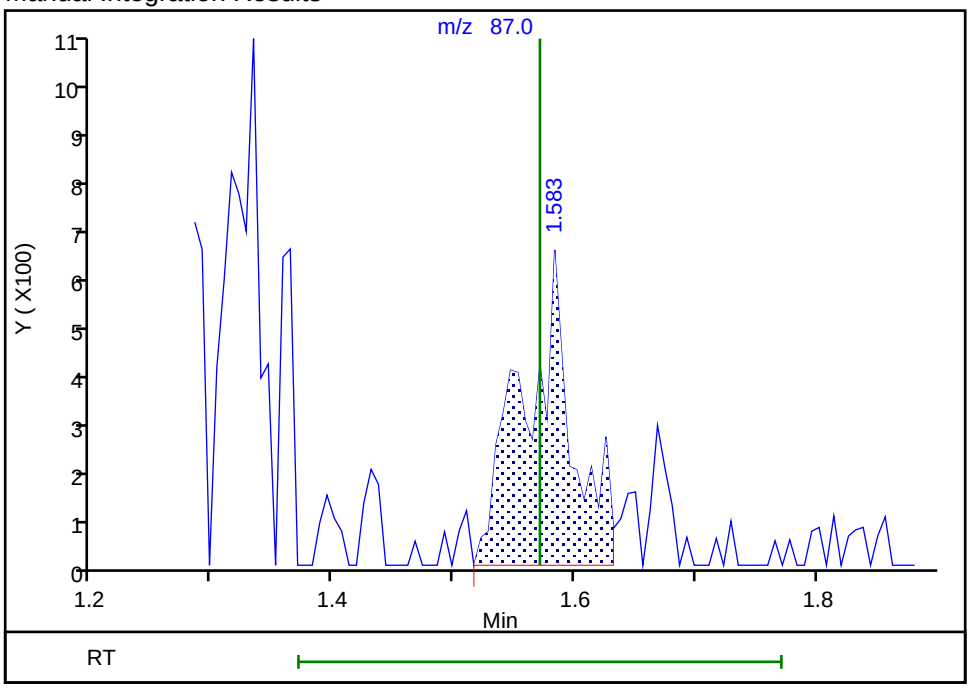
Processing Integration Results

RT: 1.51
Area: 68
Amount: 0.041270
Amount Units: ug/l



Manual Integration Results

RT: 1.58
Area: 1850
Amount: 1.141874
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:20:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

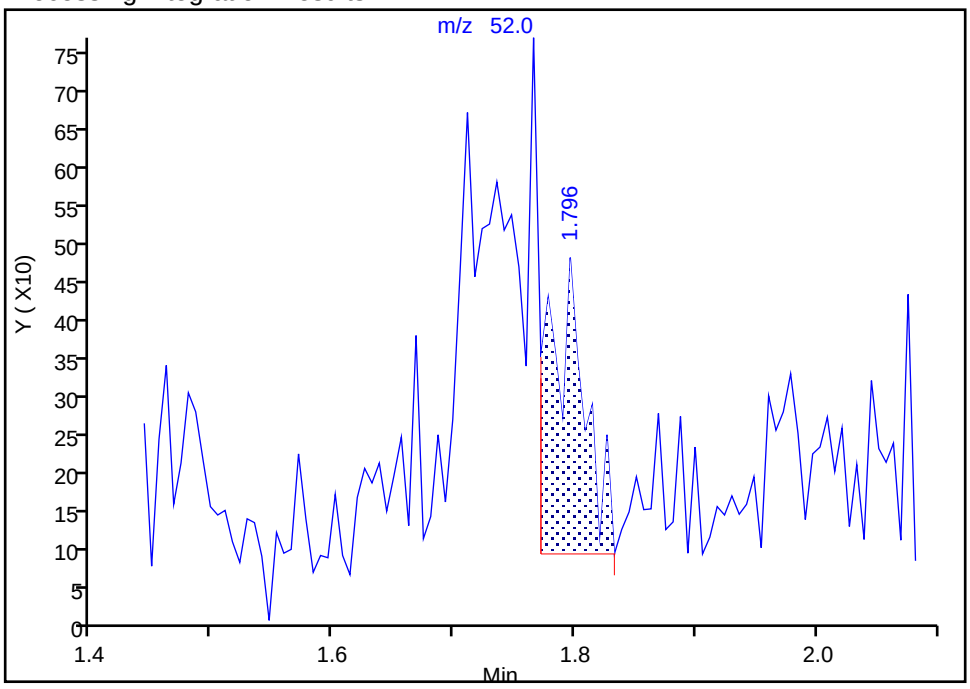
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Chloromethane, CAS: 74-87-3

Signal: 1

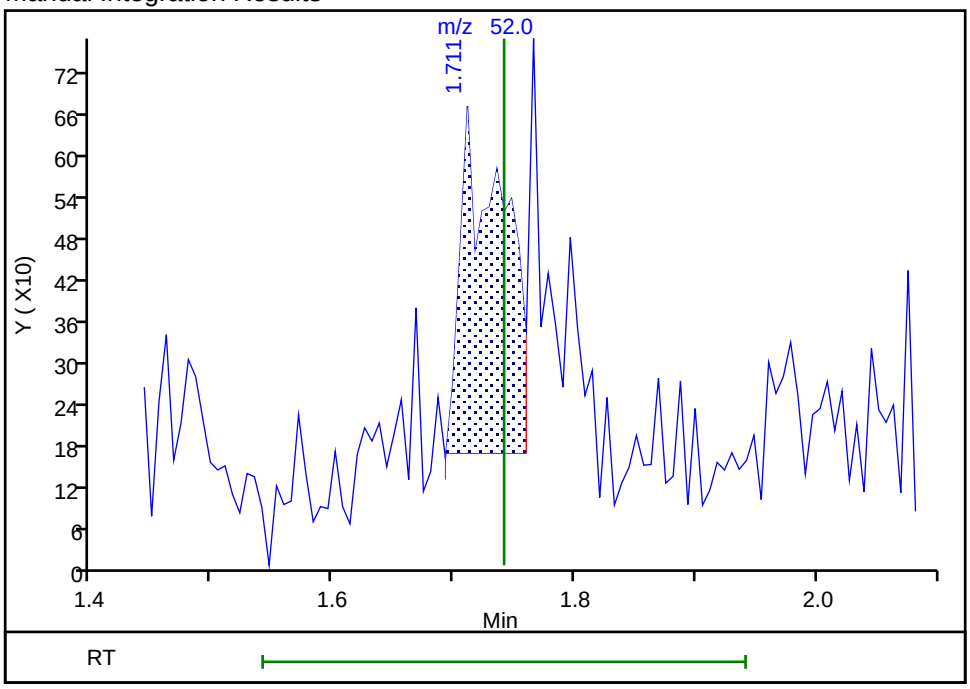
Processing Integration Results

RT: 1.80
Area: 799
Amount: 0.698948
Amount Units: ug/l



Manual Integration Results

RT: 1.71
Area: 1275
Amount: 1.042962
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:38:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

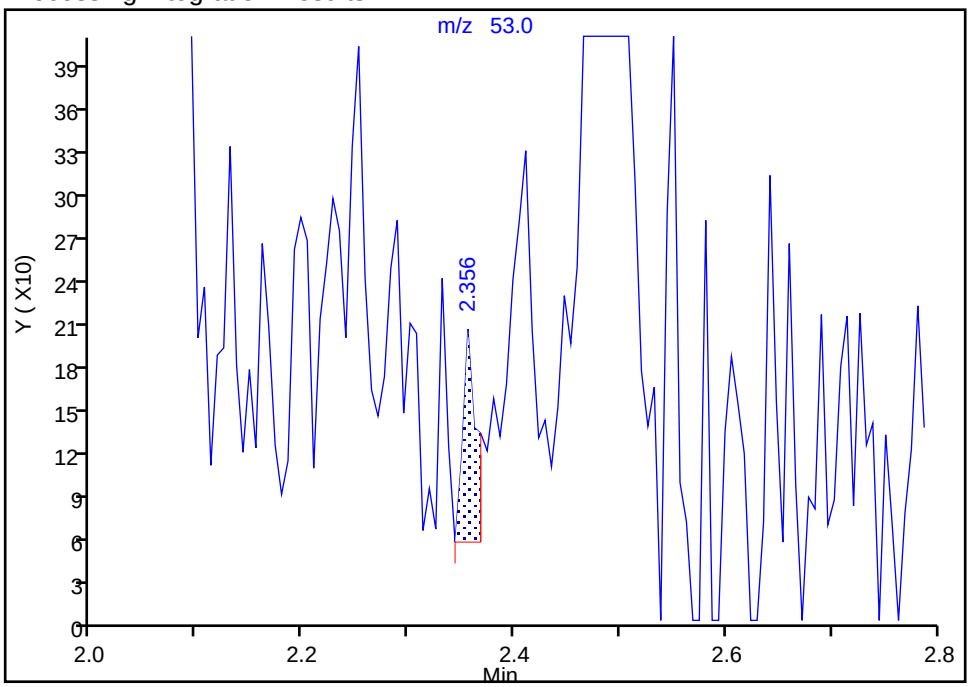
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Signal: 1

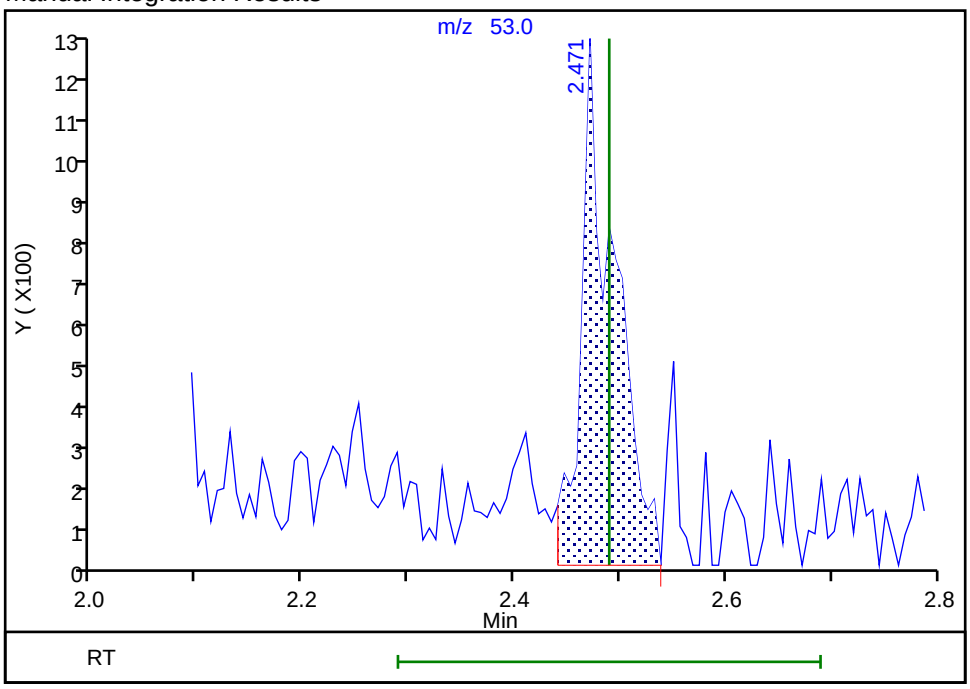
Processing Integration Results

RT: 2.36
Area: 131
Amount: 0.054121
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 2857
Amount: 1.152983
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:20:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

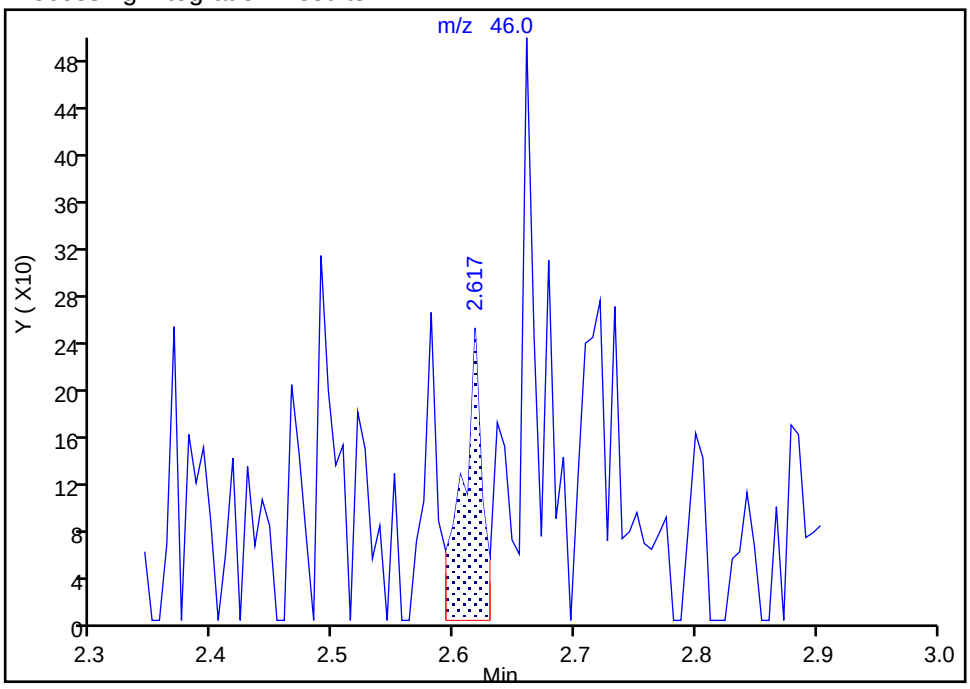
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

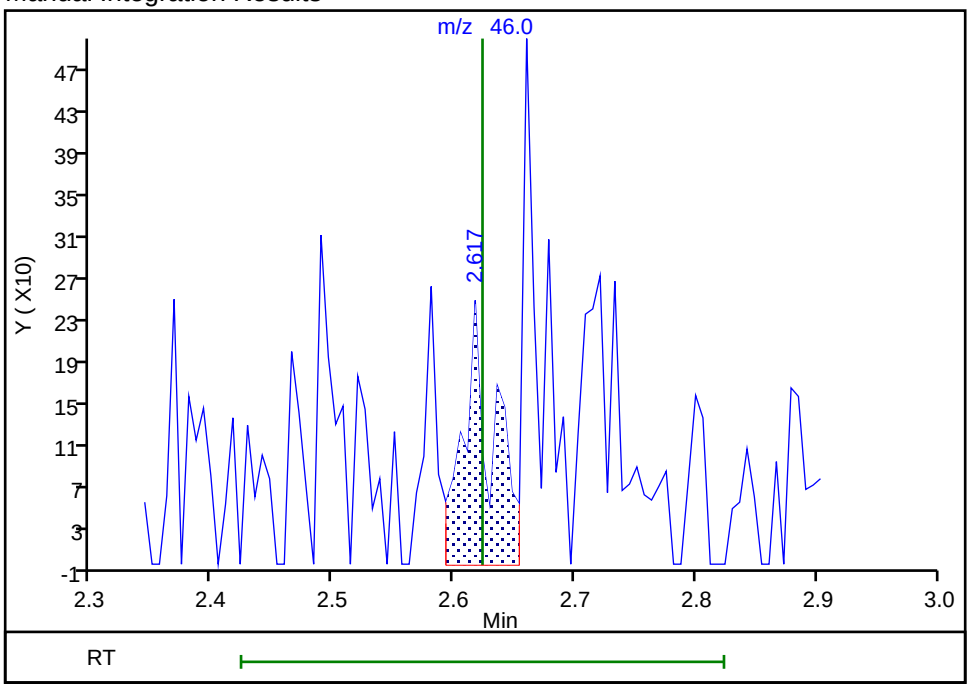
Processing Integration Results

RT: 2.62
Area: 279
Amount: 20.411879
Amount Units: ug/l



Manual Integration Results

RT: 2.62
Area: 443
Amount: 34.656430
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:40:38
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

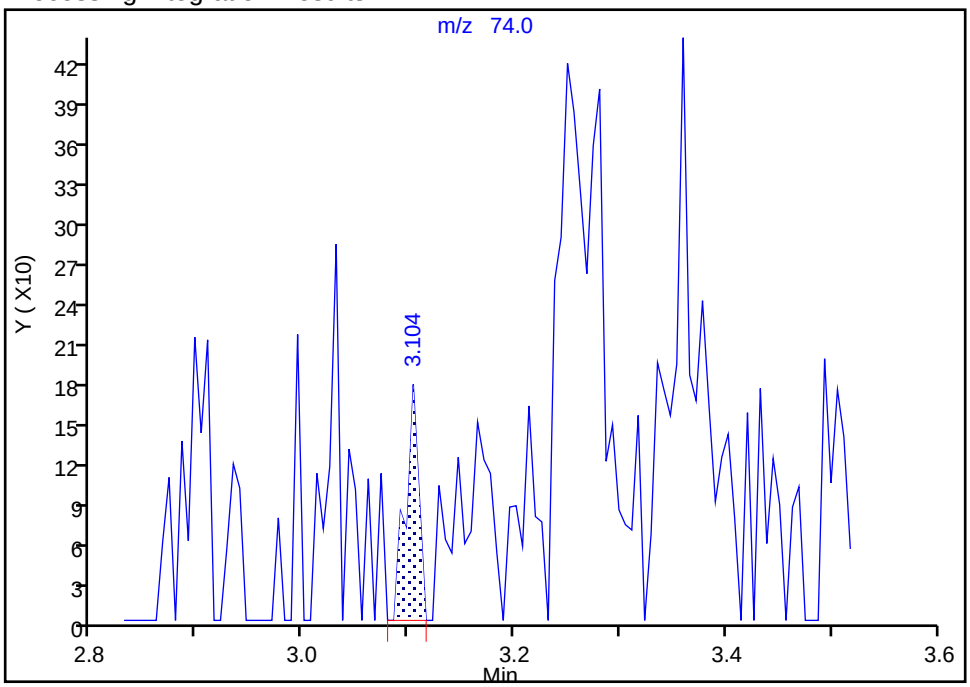
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

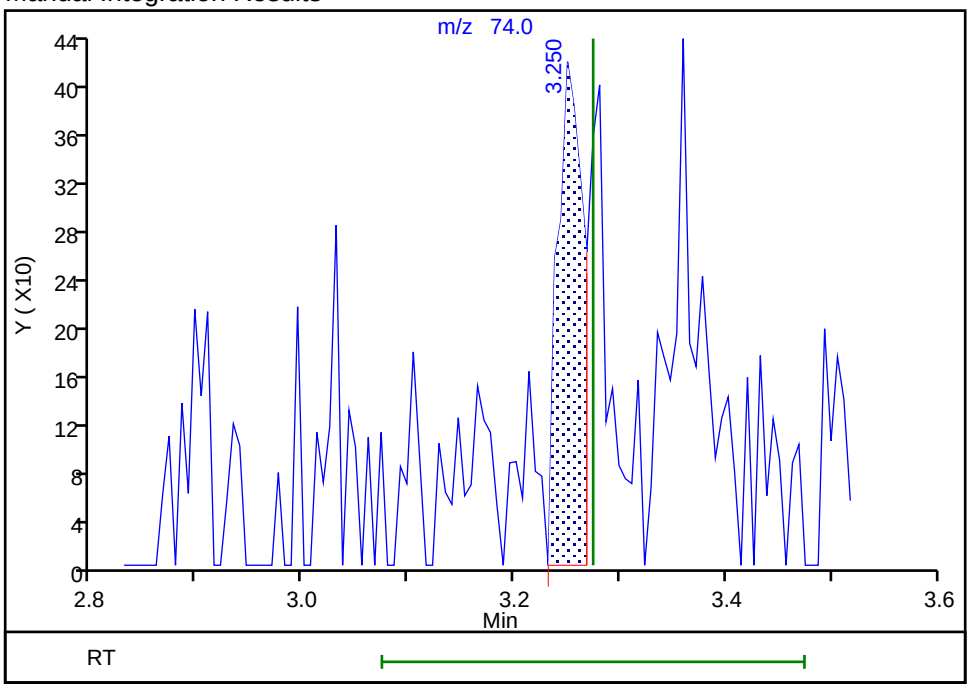
Processing Integration Results

RT: 3.10
Area: 150
Amount: 0.392704
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 694
Amount: 1.869148
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:20:53
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

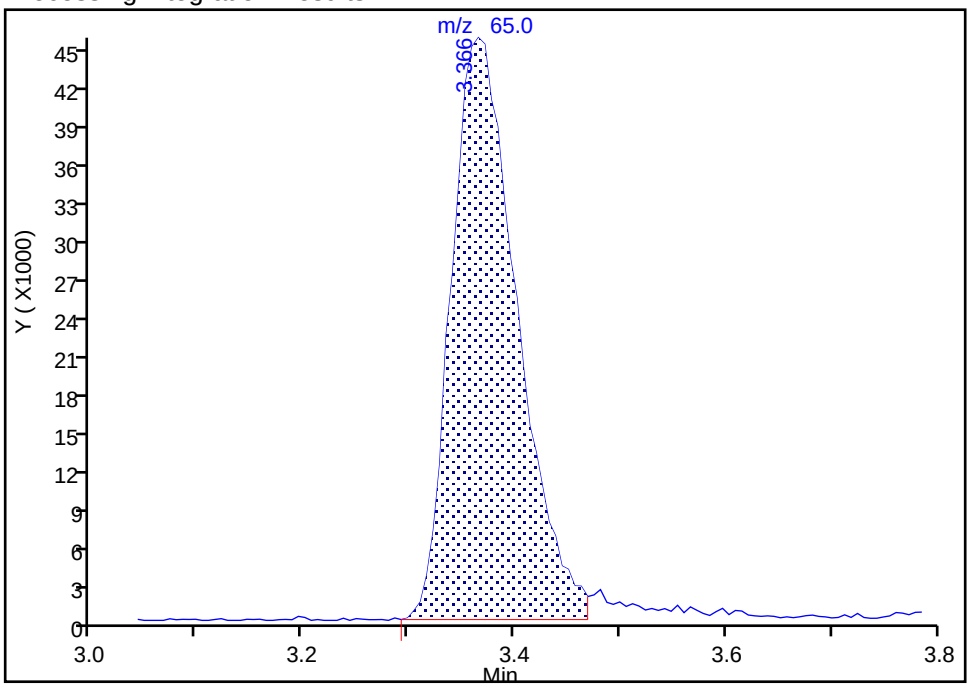
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 27 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

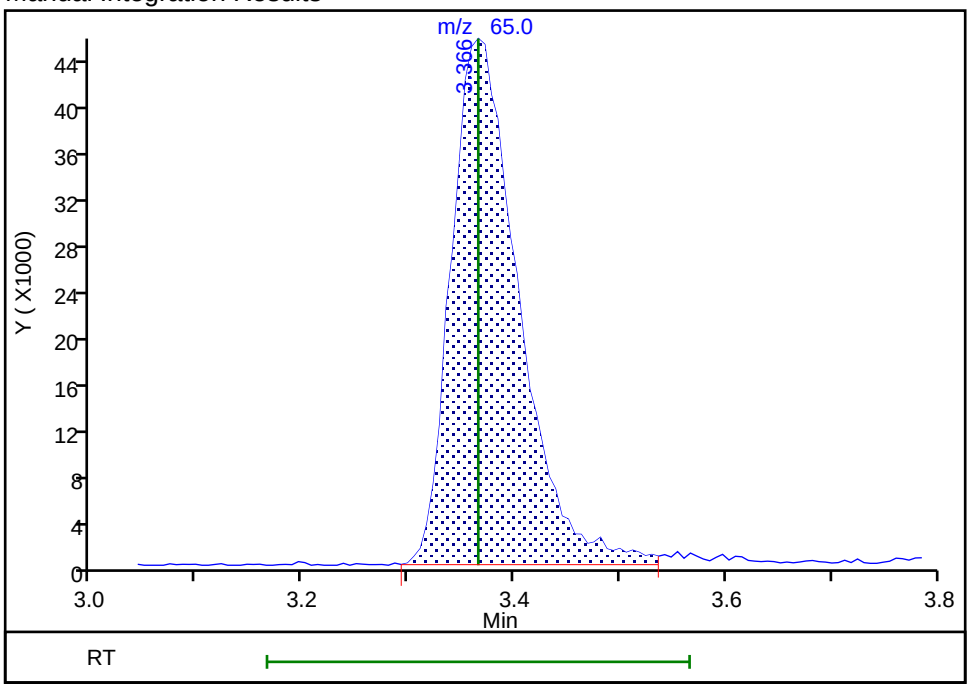
Processing Integration Results

RT: 3.37
Area: 196193
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.37
Area: 201406
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:41:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

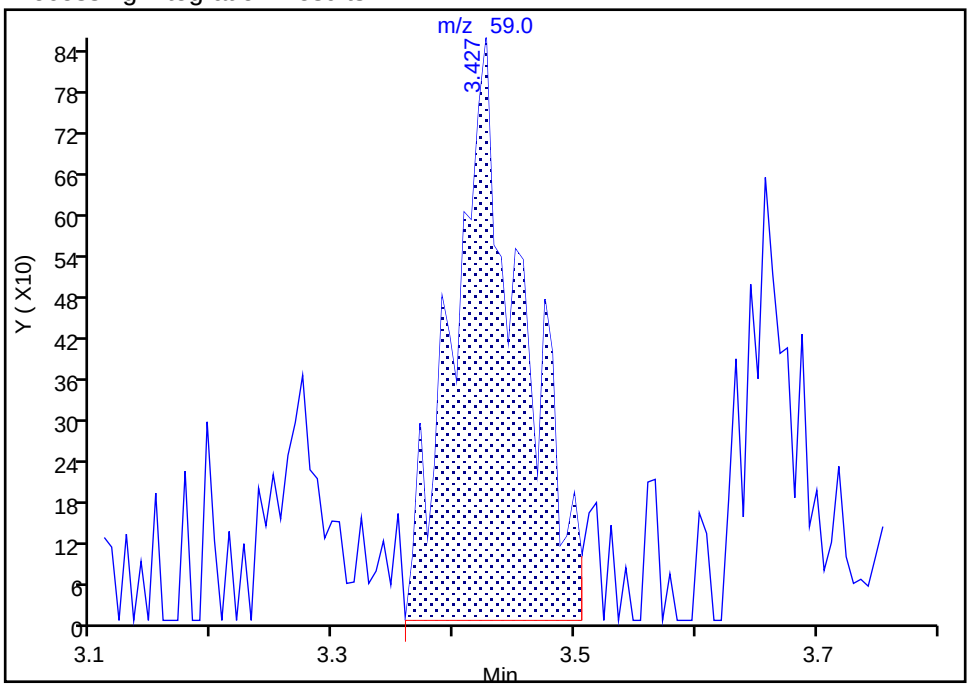
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

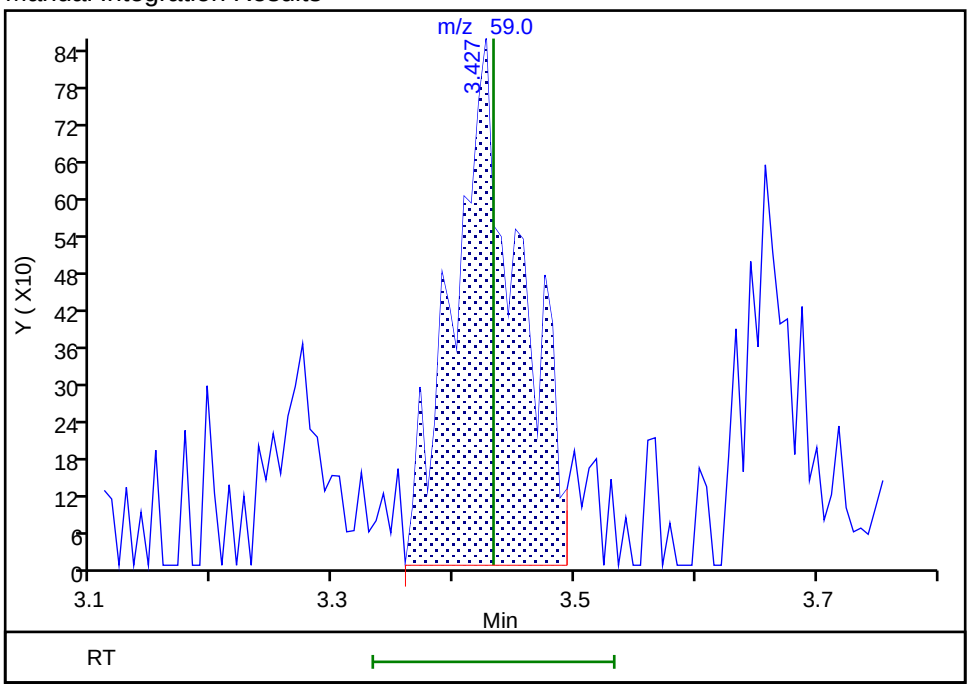
Processing Integration Results

RT: 3.43
Area: 3361
Amount: 14.297099
Amount Units: ug/l



Manual Integration Results

RT: 3.43
Area: 3259
Amount: 13.298961
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:42:09
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

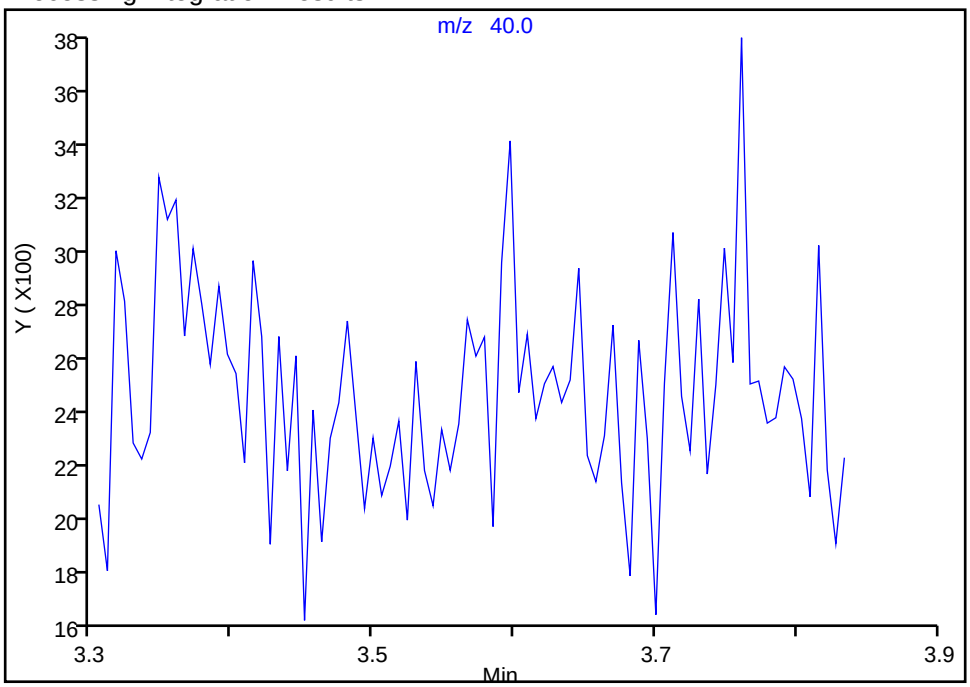
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

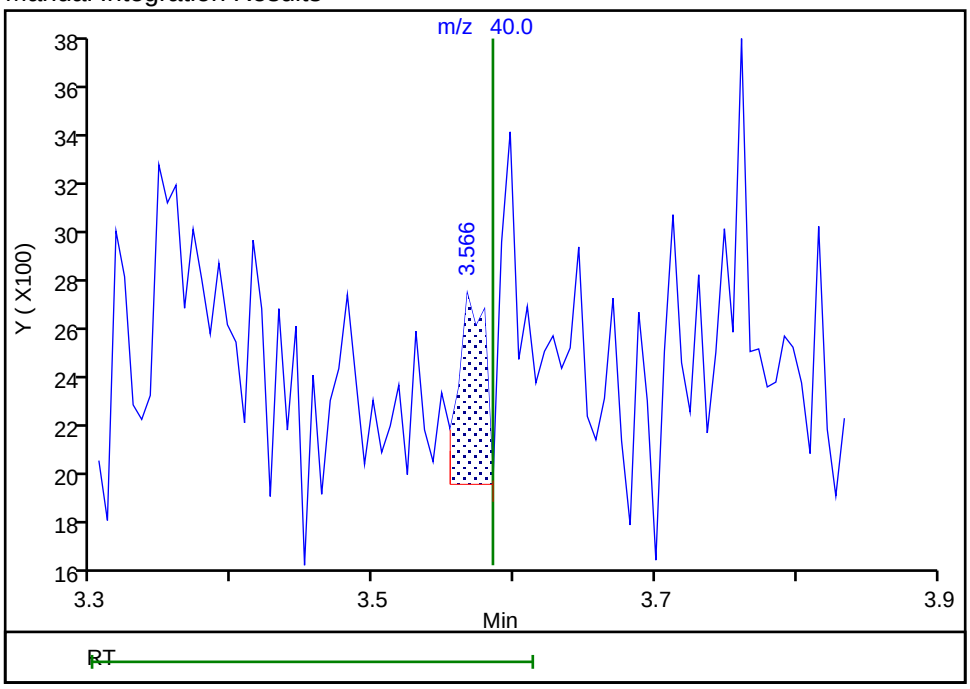
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.57
Area: 1023
Amount: 7.383183
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 14:28:12
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

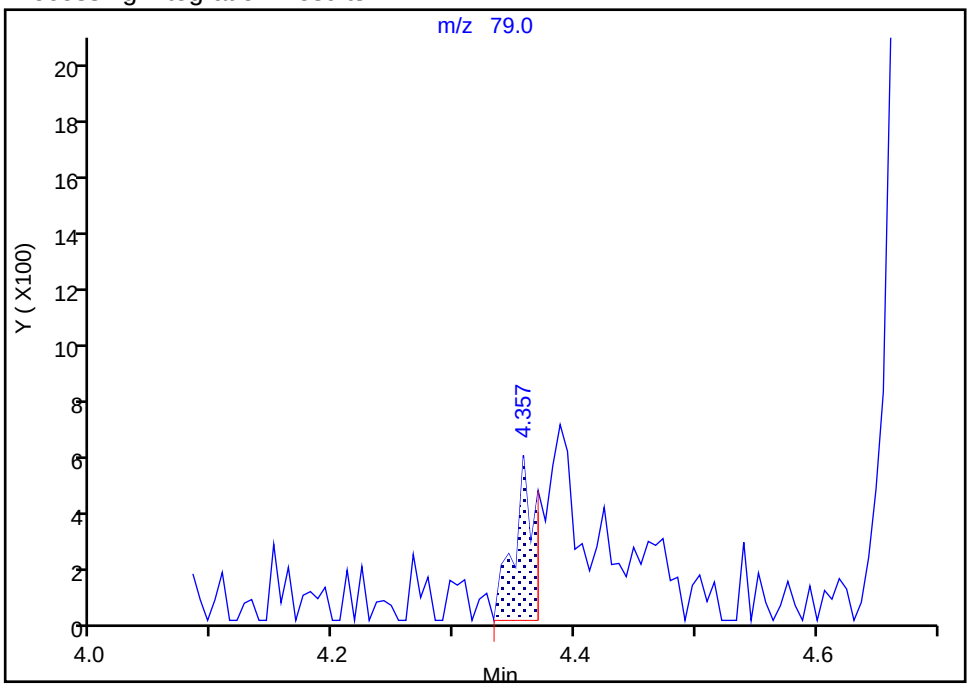
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

38 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

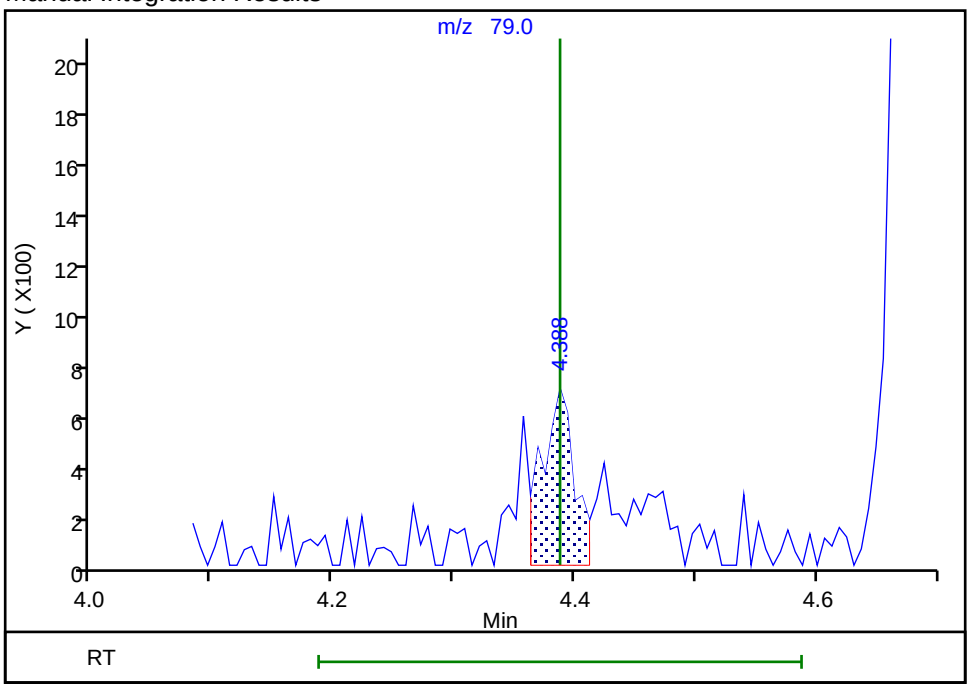
Processing Integration Results

RT: 4.36
Area: 703
Amount: 0.477097
Amount Units: ug/l



Manual Integration Results

RT: 4.39
Area: 1321
Amount: 0.940514
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:21:37
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

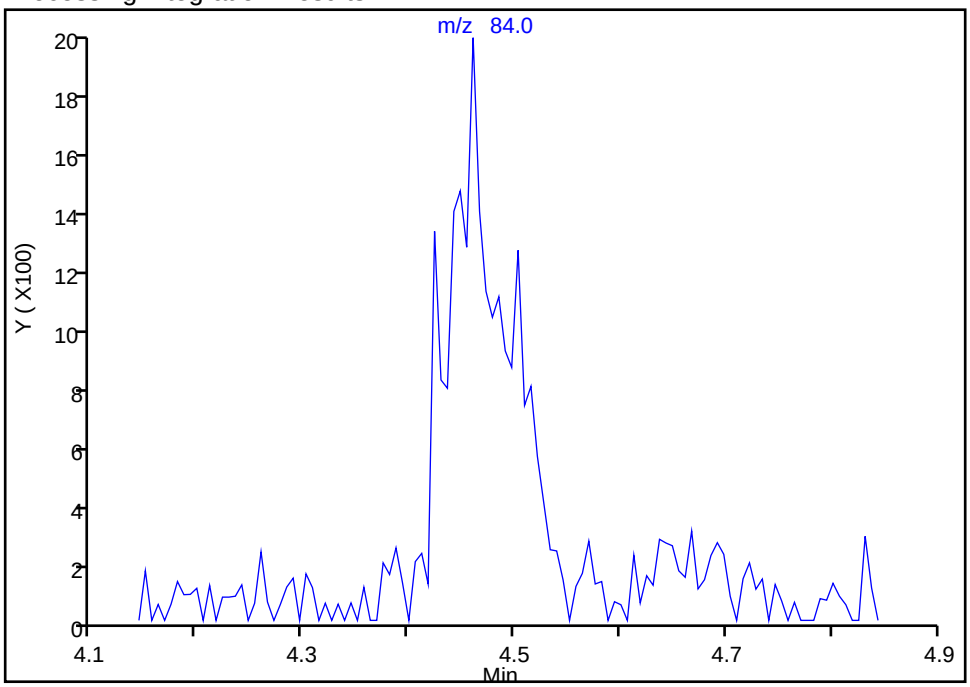
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7

Signal: 1

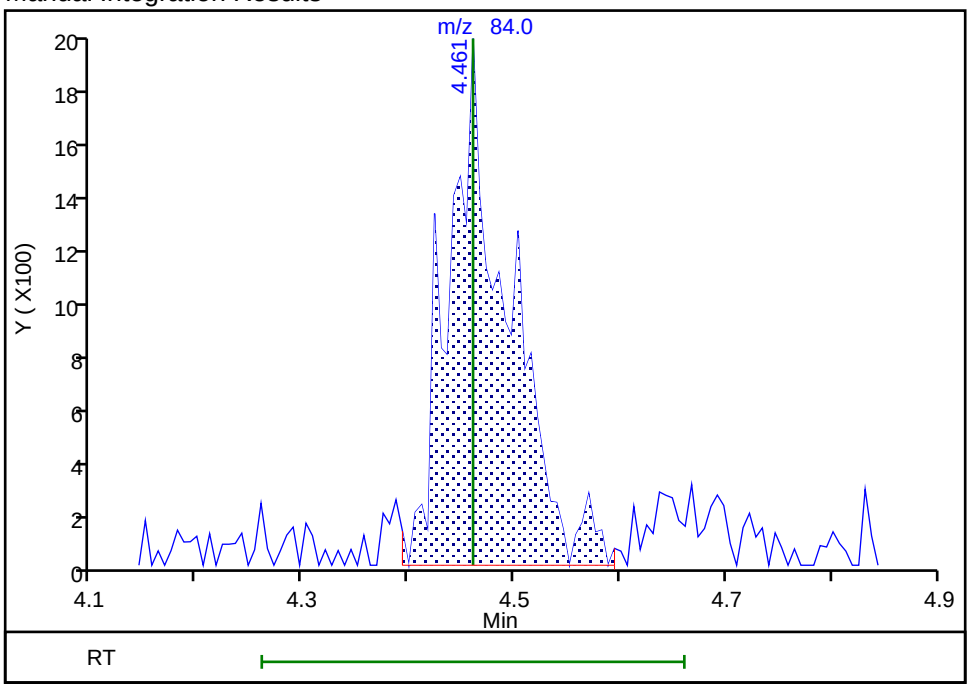
Not Detected
Expected RT: 4.46

Processing Integration Results



Manual Integration Results

RT: 4.46
Area: 7492
Amount: 1.246596
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:21:46
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

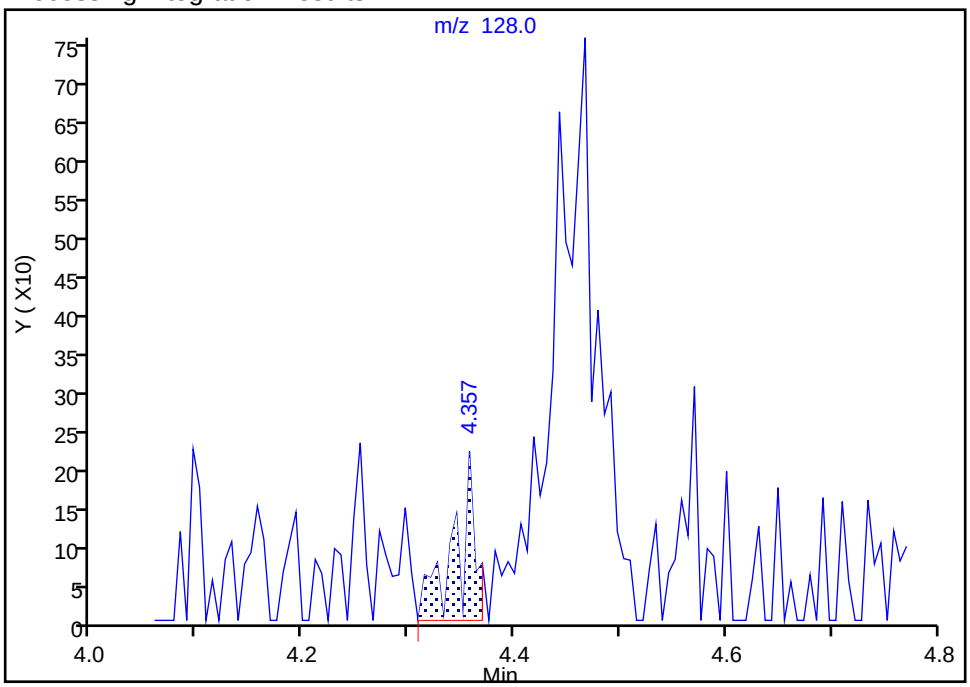
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

46 Chlorobromomethane, CAS: 74-97-5

Signal: 1

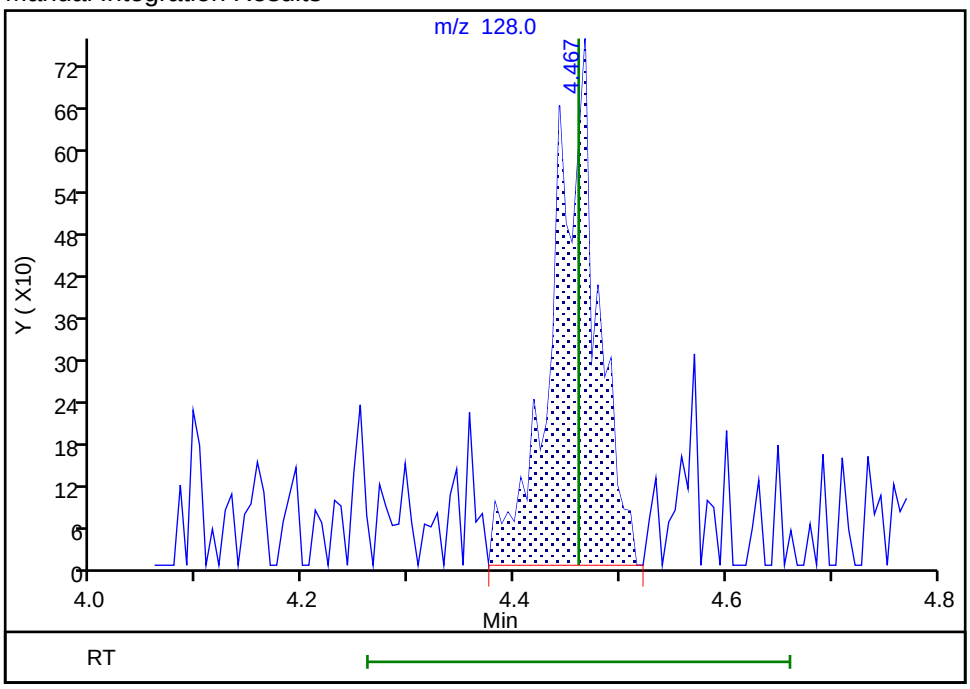
Processing Integration Results

RT: 4.36
Area: 286
Amount: 0.177356
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 2159
Amount: 1.254339
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:21:53
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

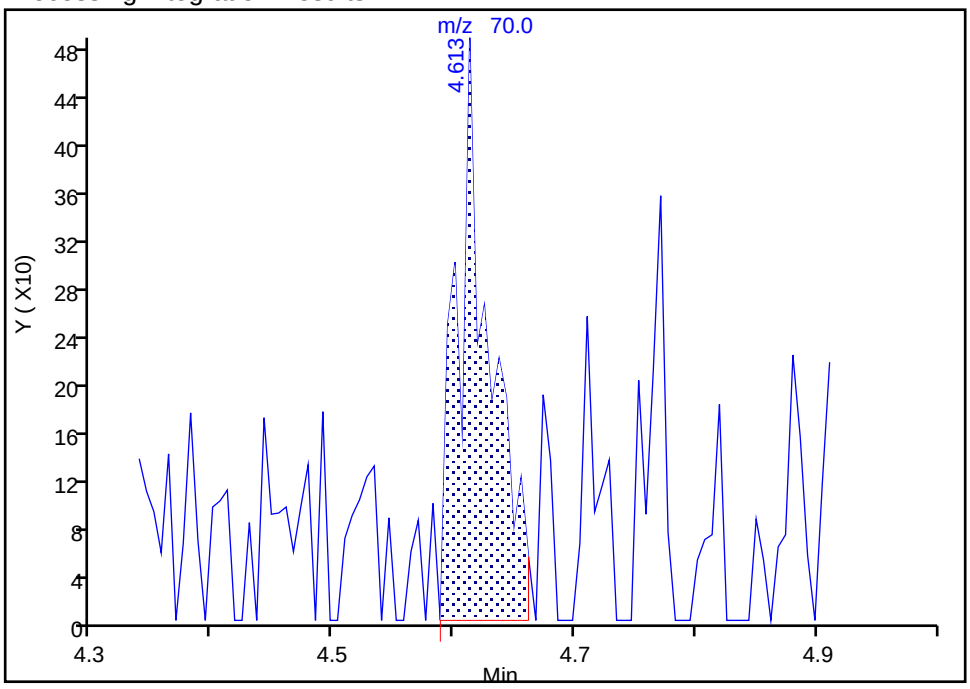
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Signal: 1

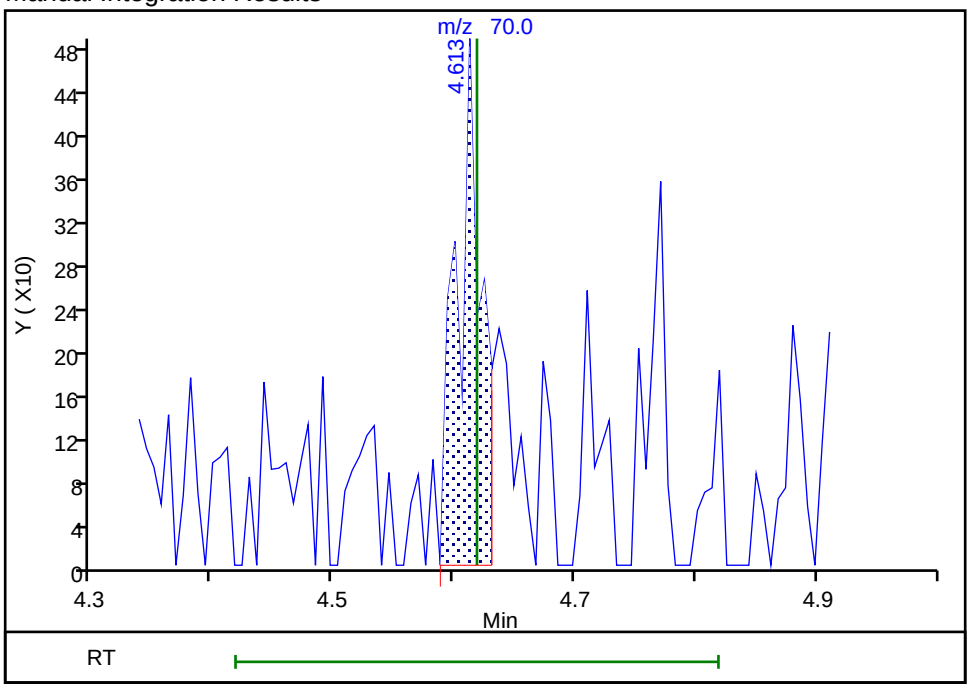
Processing Integration Results

RT: 4.61
Area: 905
Amount: 3.433976
Amount Units: ug/l



Manual Integration Results

RT: 4.61
Area: 669
Amount: 2.472555
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:43:52
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

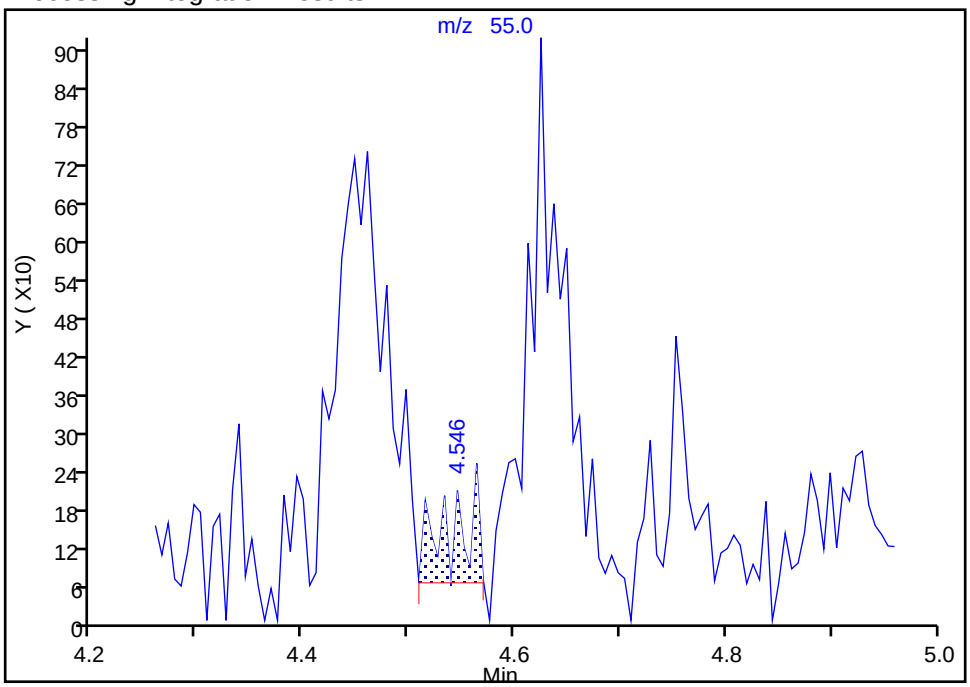
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

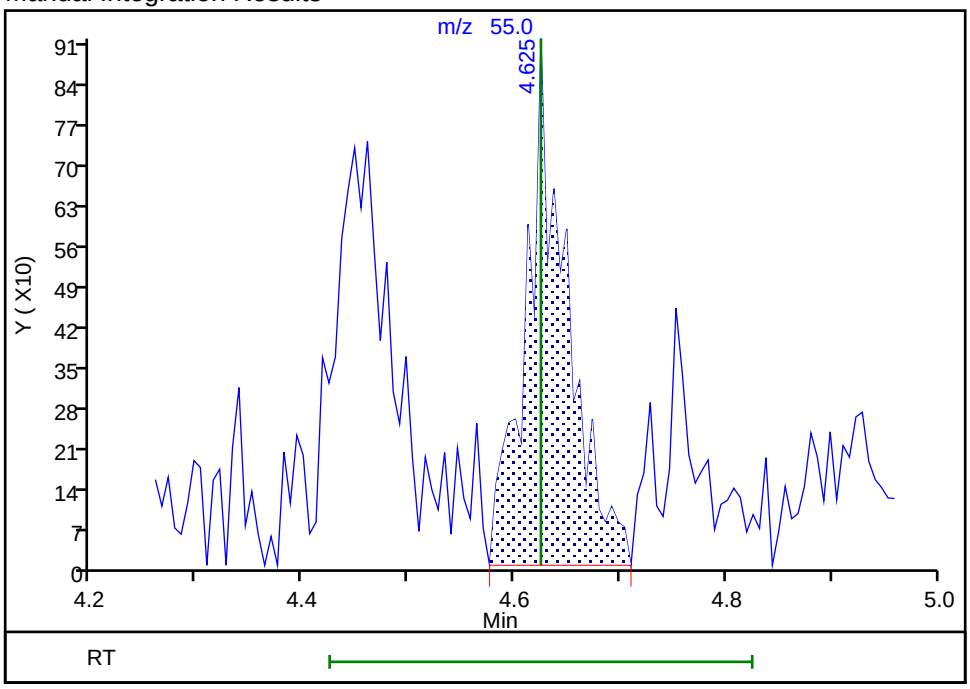
Processing Integration Results

RT: 4.55
Area: 288
Amount: 0.142736
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 2425
Amount: 1.248053
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:21:58
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

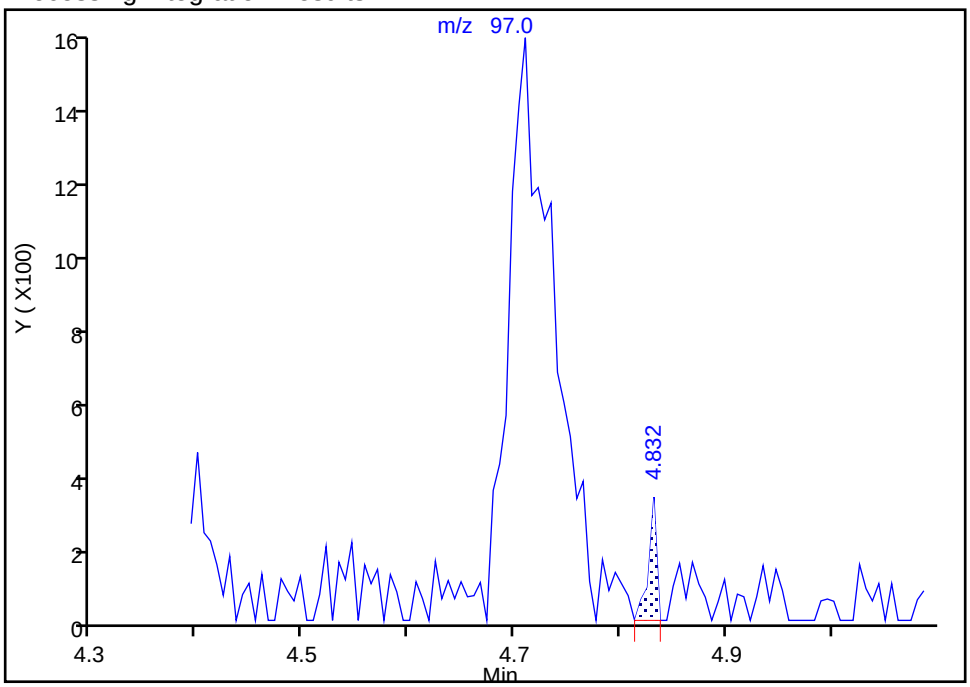
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

50 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

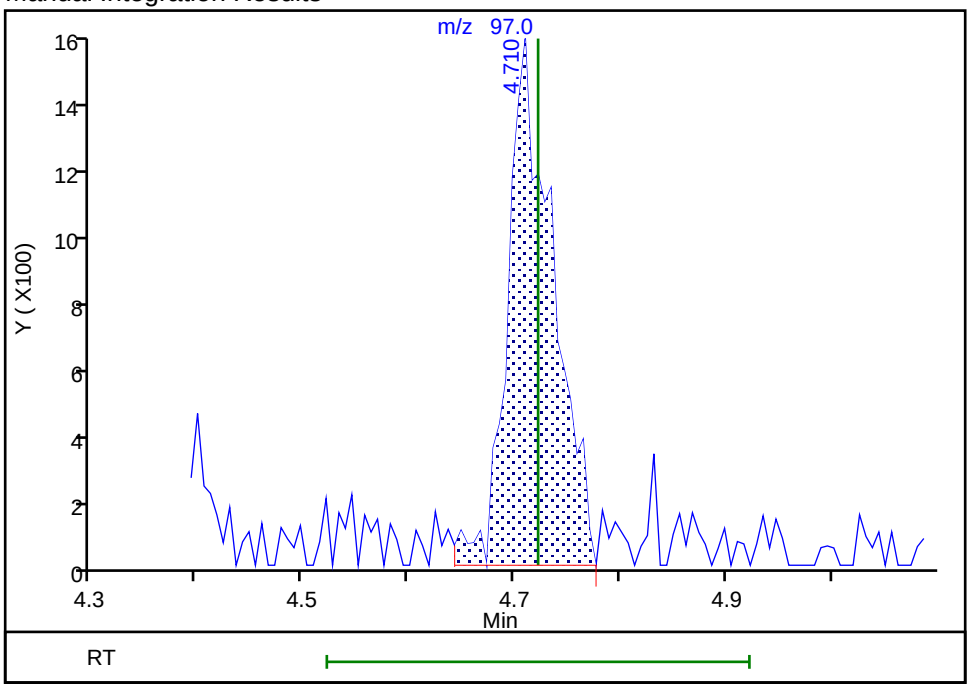
Processing Integration Results

RT: 4.83
Area: 173
Amount: 0.035235
Amount Units: ug/l



Manual Integration Results

RT: 4.71
Area: 4665
Amount: 0.984654
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:22:05
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

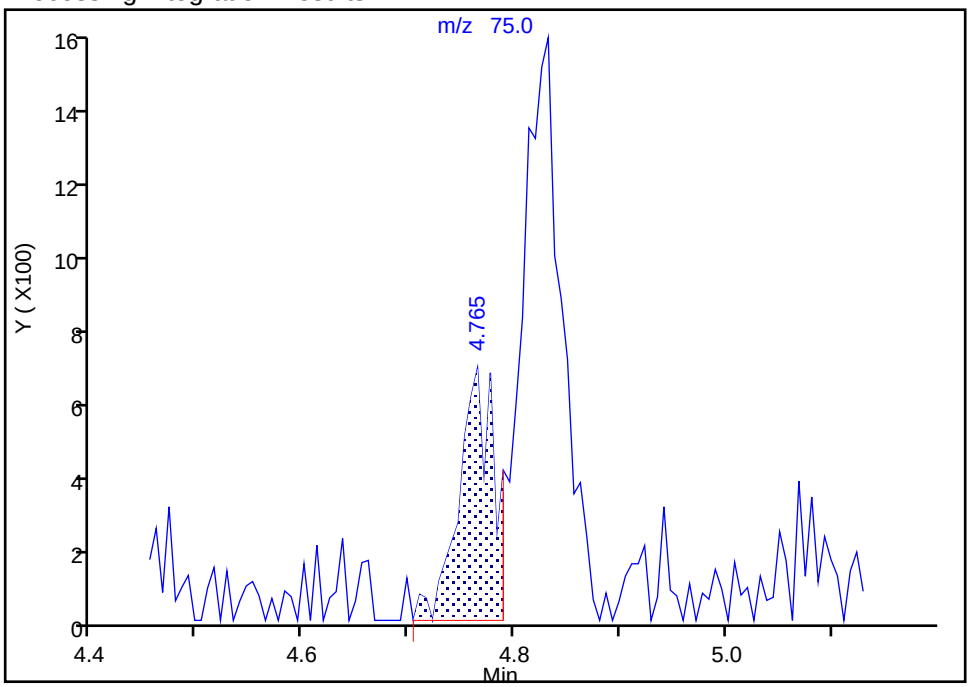
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

53 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

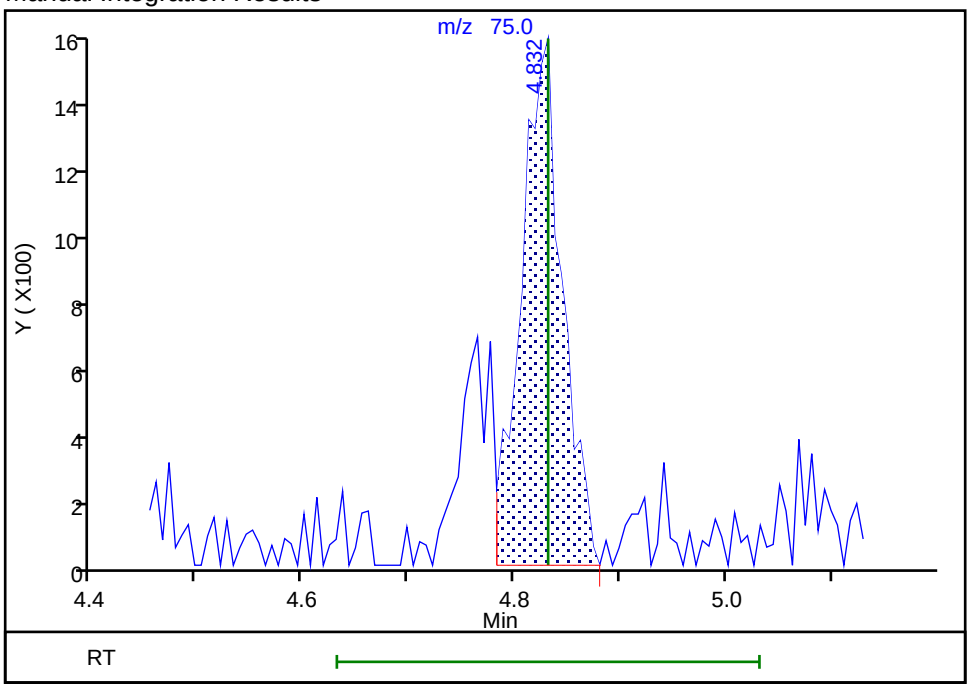
Processing Integration Results

RT: 4.76
Area: 1545
Amount: 0.392812
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 4176
Amount: 1.057597
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:22:19
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

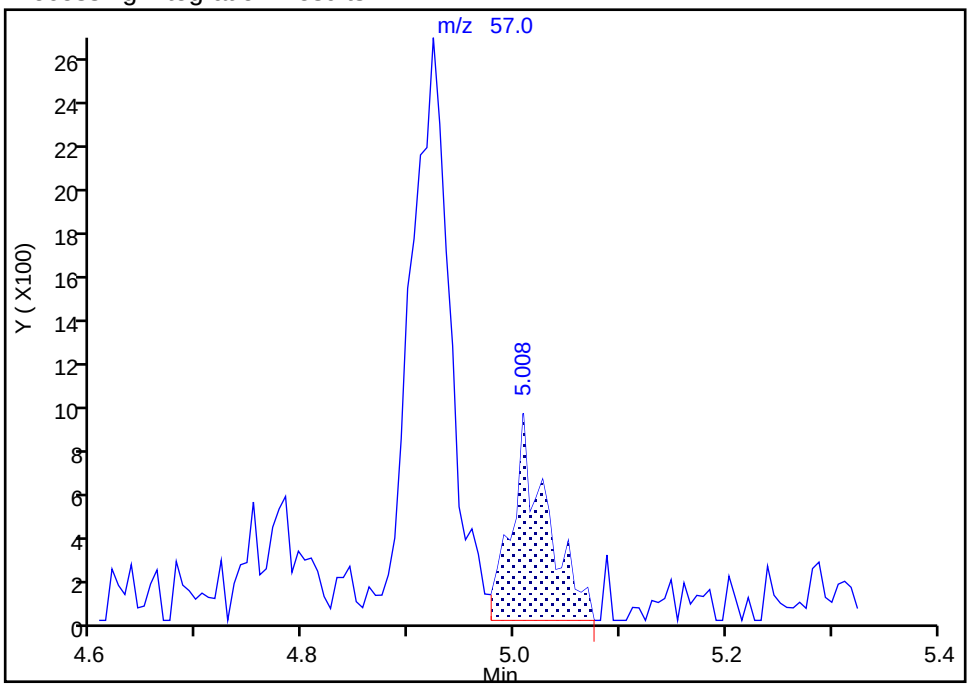
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isooctane, CAS: 540-84-1

Signal: 1

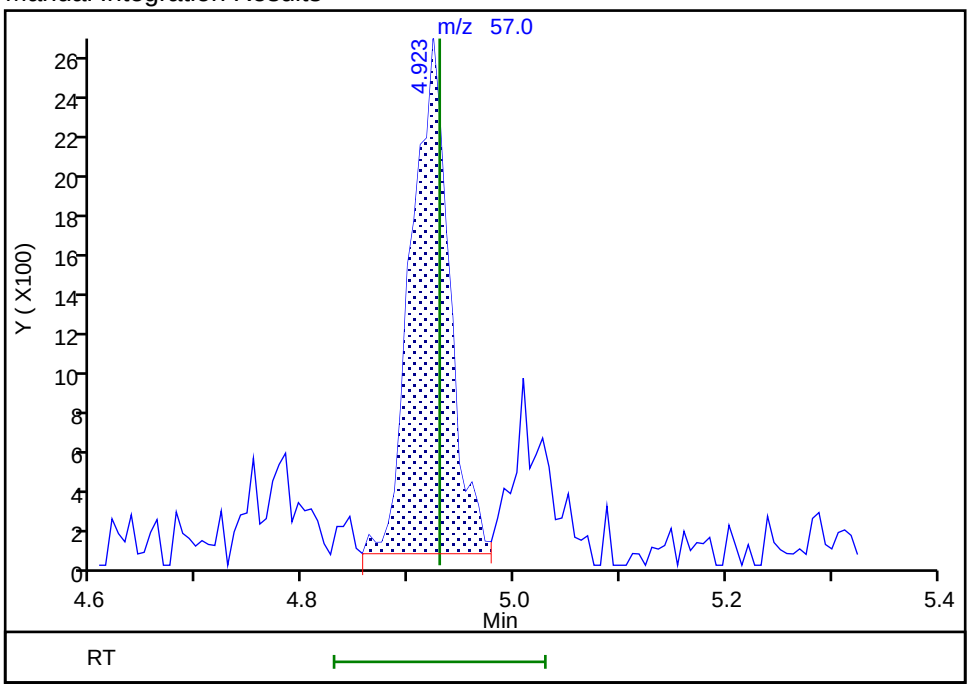
Processing Integration Results

RT: 5.01
Area: 2132
Amount: 0.244764
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 6404
Amount: 0.842239
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:22:23
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

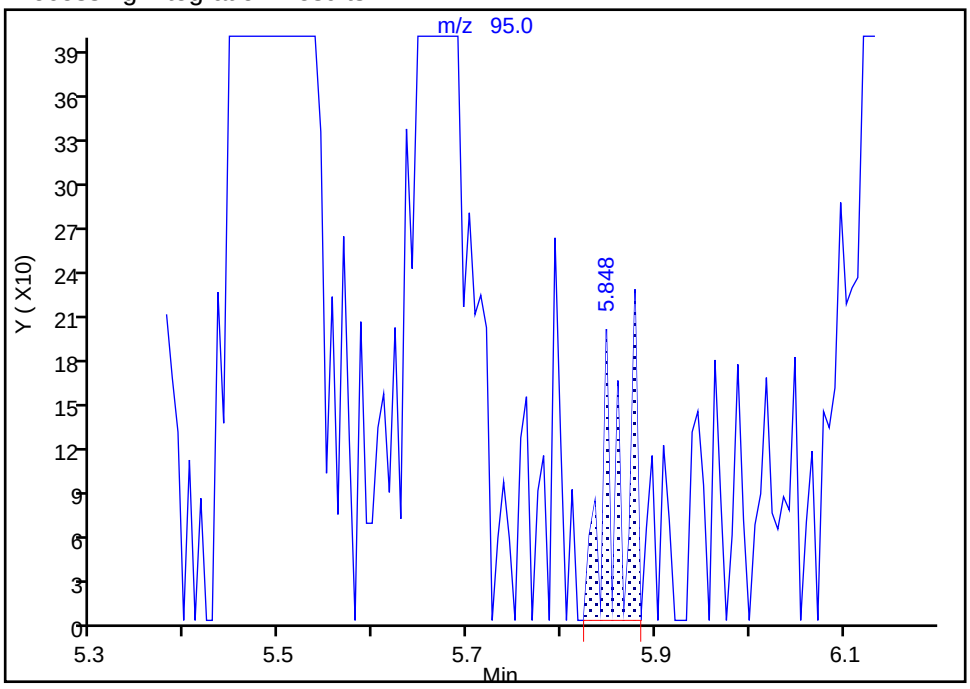
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Trichloroethene, CAS: 79-01-6

Signal: 1

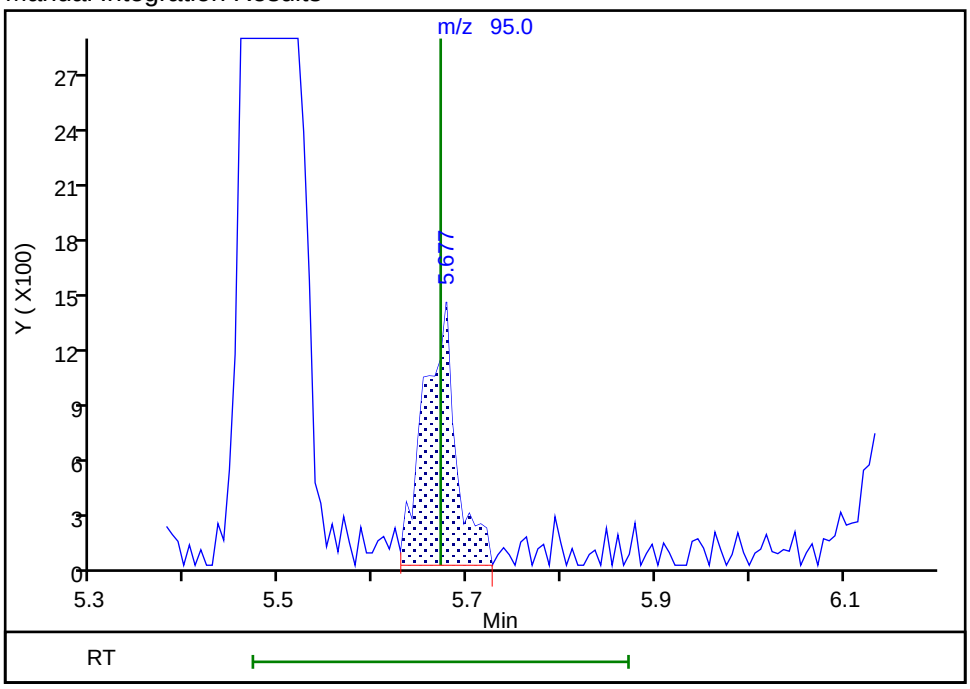
Processing Integration Results

RT: 5.85
Area: 286
Amount: 0.098830
Amount Units: ug/l



Manual Integration Results

RT: 5.68
Area: 3358
Amount: 1.132922
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:22:47
Audit Action: Assigned Compound ID Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

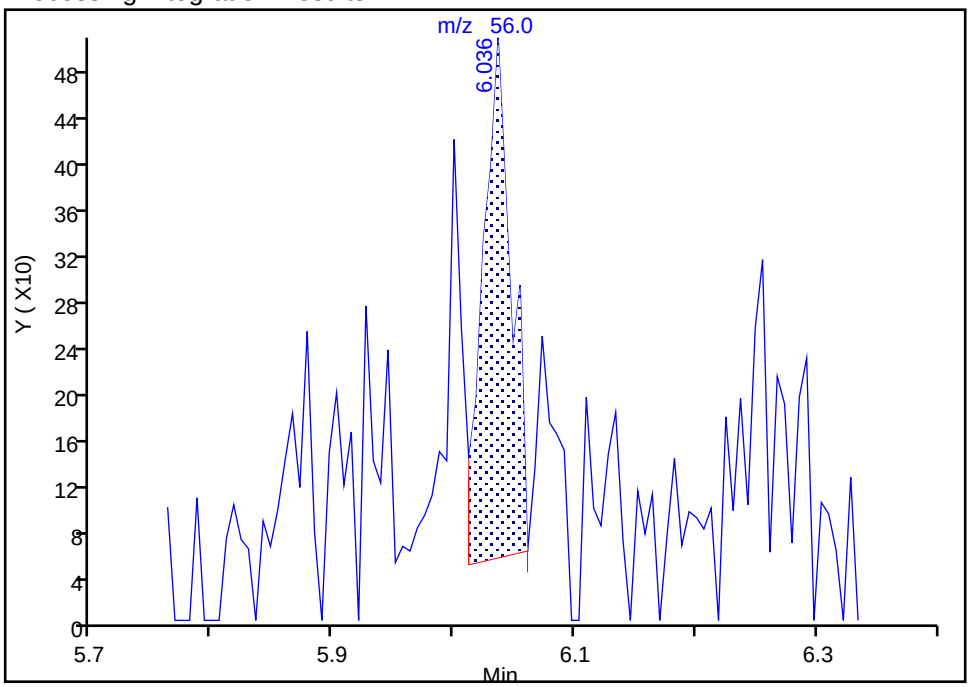
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

63 n-Butanol, CAS: 71-36-3

Signal: 1

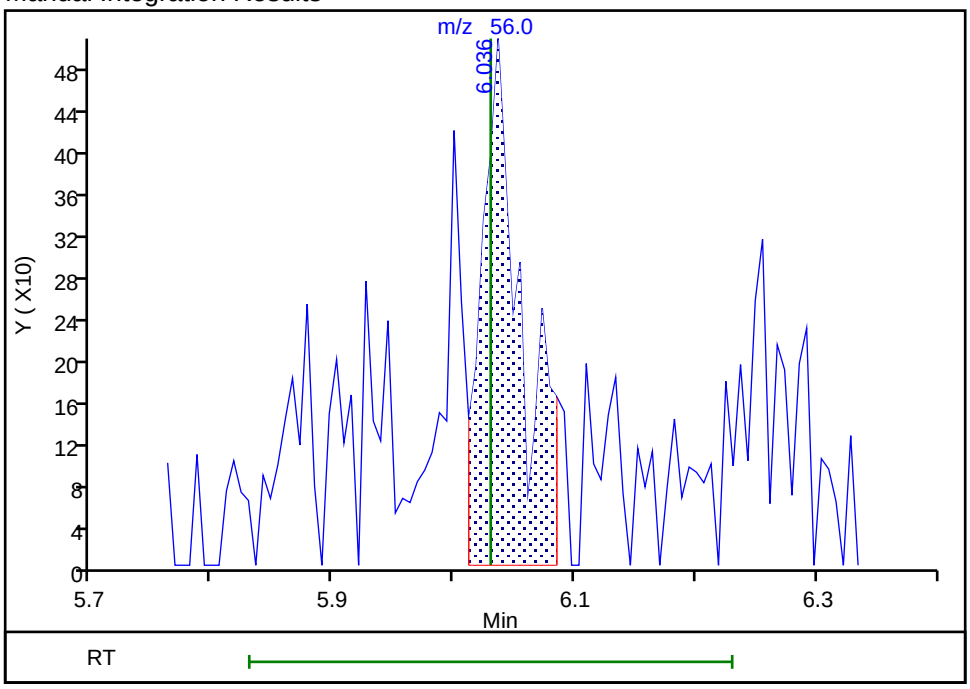
Processing Integration Results

RT: 6.04
Area: 742
Amount: 13.623280
Amount Units: ug/l



Manual Integration Results

RT: 6.04
Area: 1179
Amount: 22.541976
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:44:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

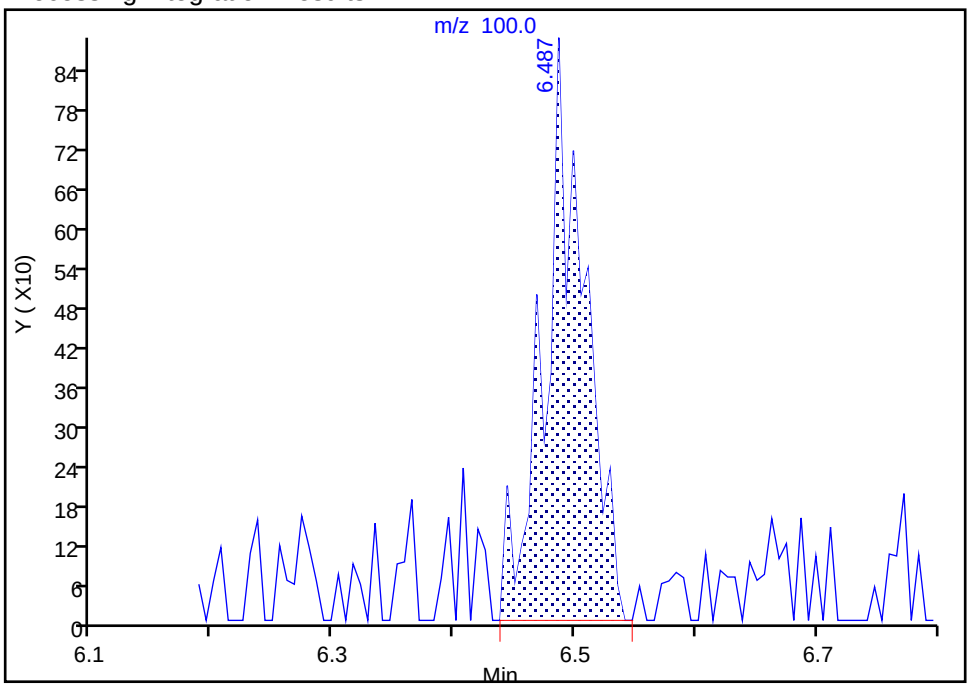
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 Methyl methacrylate, CAS: 80-62-6

Signal: 1

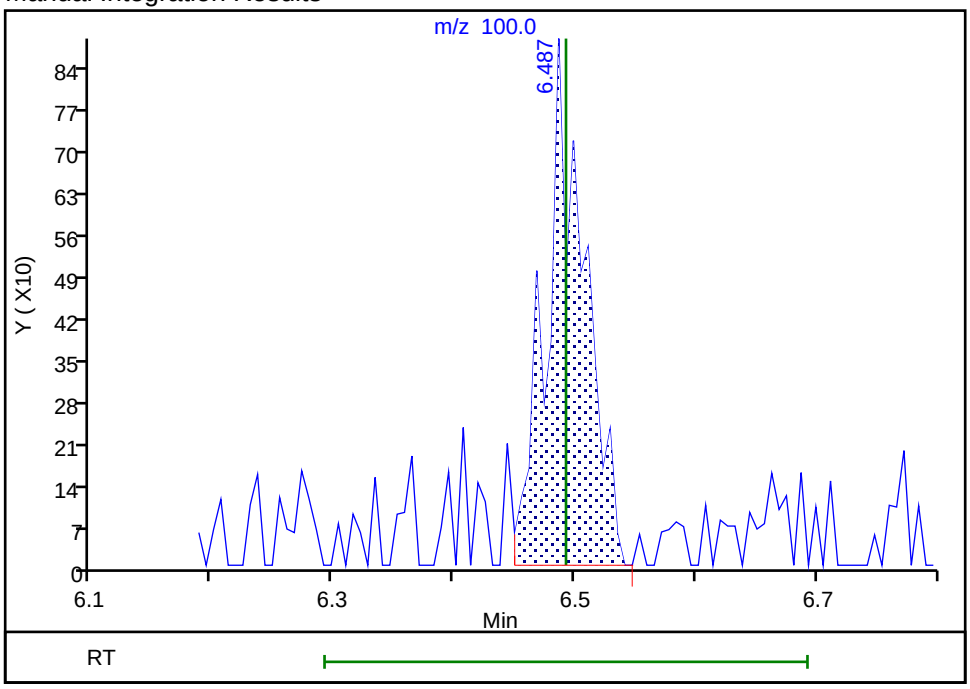
Processing Integration Results

RT: 6.49
Area: 2026
Amount: 3.081483
Amount Units: ug/l



Manual Integration Results

RT: 6.49
Area: 1951
Amount: 2.644938
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:45:02
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

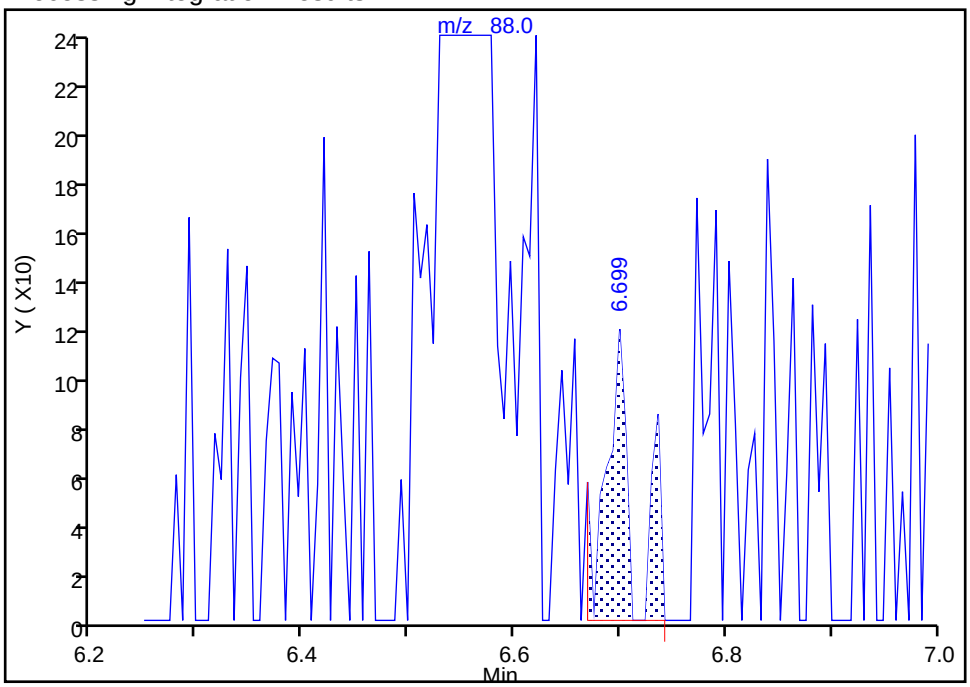
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 1,4-Dioxane, CAS: 123-91-1

Signal: 1

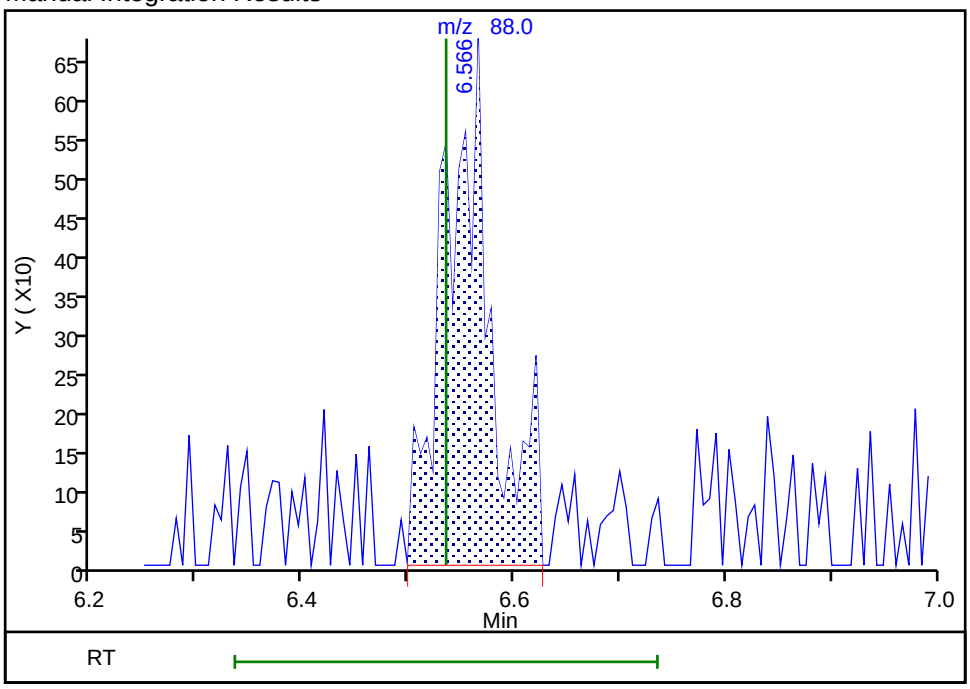
Processing Integration Results

RT: 6.70
Area: 212
Amount: 7.779630
Amount Units: ug/l



Manual Integration Results

RT: 6.57
Area: 2067
Amount: 60.564424
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:45:24
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

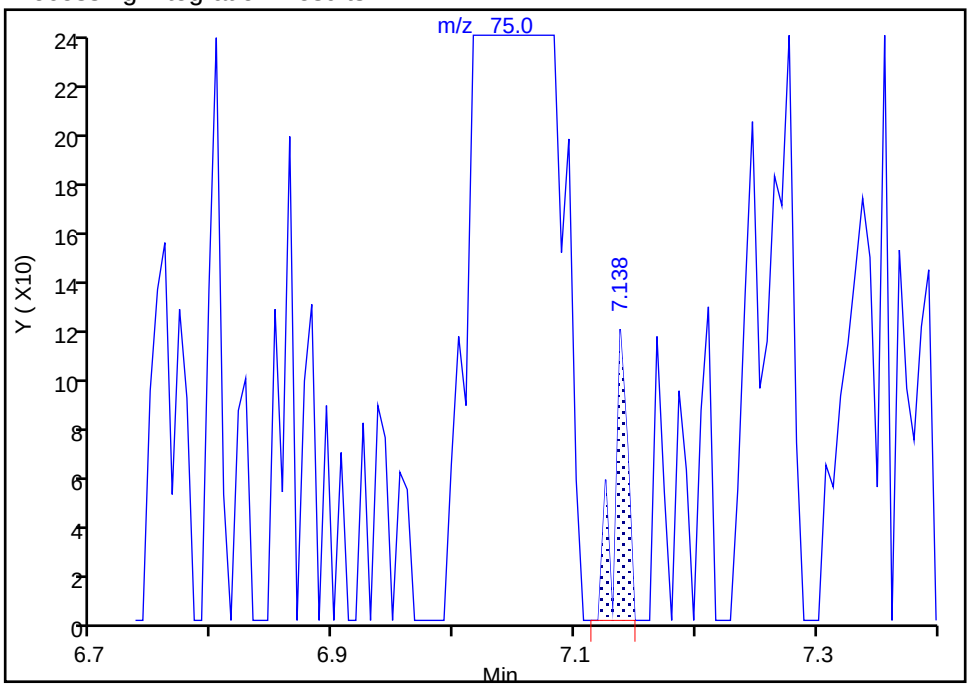
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

77 cis-1,3-Dichloropropene, CAS: 10061-01-5

Signal: 1

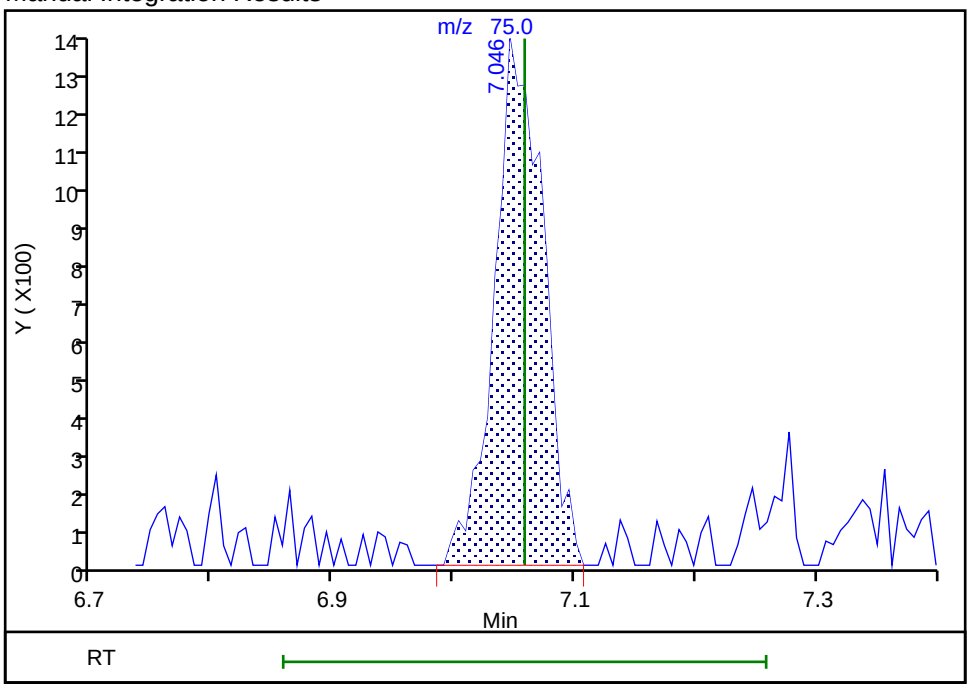
Processing Integration Results

RT: 7.14
Area: 90
Amount: 0.023064
Amount Units: ug/l



Manual Integration Results

RT: 7.05
Area: 3848
Amount: 0.992907
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:23:23
Audit Action: Assigned Compound ID Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

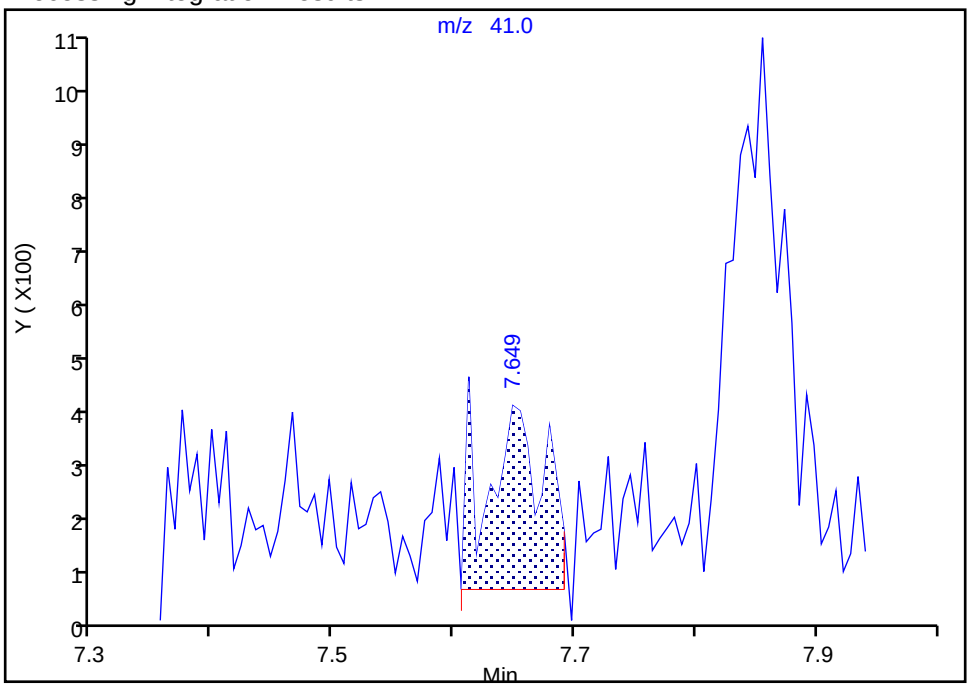
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

74 2-Nitropropane, CAS: 79-46-9

Signal: 1

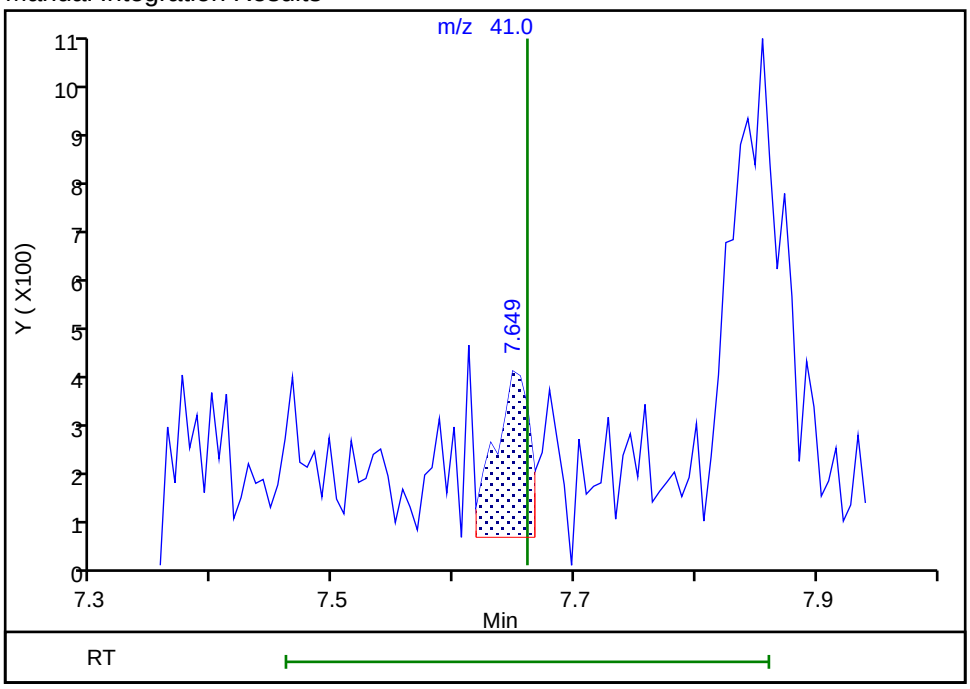
Processing Integration Results

RT: 7.65
Area: 1110
Amount: 3.033202
Amount Units: ug/l



Manual Integration Results

RT: 7.65
Area: 681
Amount: 1.955124
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 14:23:24
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

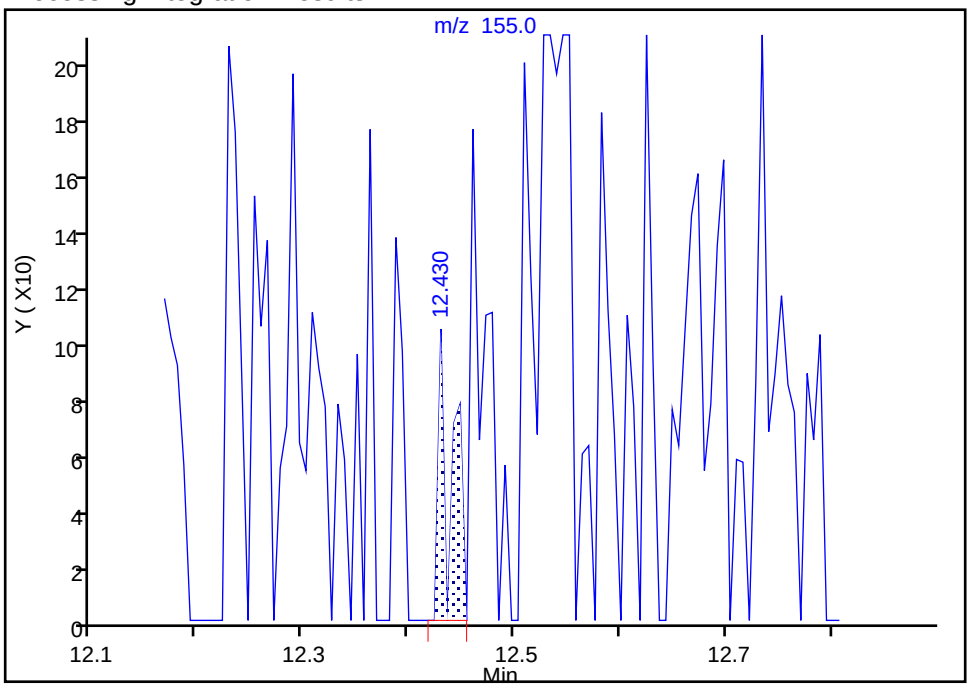
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672373.D
Injection Date: 05-Jun-2018 09:24:30 Instrument ID: CVOAMS11
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

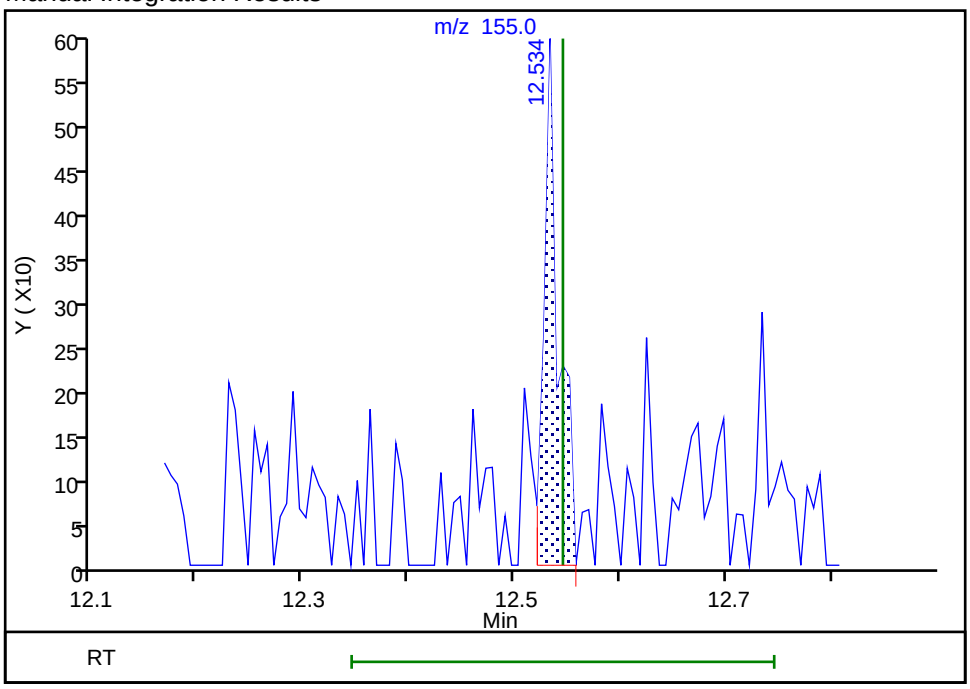
Processing Integration Results

RT: 12.43
Area: 93
Amount: 0.221584
Amount Units: ug/l



Manual Integration Results

RT: 12.53
Area: 569
Amount: 1.133642
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:23:51
Audit Action: Assigned Compound ID Audit Reason: Peak Tail

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jun-2018 09:47:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0073222-005
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:47:57 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: tupayachia Date: 05-Jun-2018 10:54:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.553	1.547	0.006	87	11020	5.00	4.42	
2 Dichlorodifluoromethane	87	1.565	1.571	-0.006	99	6075	5.00	3.82	
3 Chloromethane	52	1.735	1.741	-0.006	98	5824	5.00	4.82	
5 Butadiene	54	1.796	1.796	0.000	96	16075	5.00	4.95	
4 Vinyl chloride	62	1.808	1.814	-0.006	97	19484	5.00	5.03	
6 Bromomethane	94	2.070	2.076	-0.006	96	12092	5.00	5.19	
7 Chloroethane	64	2.155	2.161	-0.006	89	10183	5.00	5.33	
10 Pentane	72	2.228	2.246	-0.018	94	4884	10.0	9.53	
9 Trichlorofluoromethane	101	2.271	2.289	-0.018	96	24779	5.00	4.81	
8 Dichlorofluoromethane	67	2.319	2.325	-0.006	98	29415	5.00	4.97	
13 2-Methyl-1,3-butadiene	53	2.483	2.490	-0.007	95	10769	5.00	4.43	
12 Ethyl ether	59	2.490	2.490	0.000	73	11086	5.00	5.15	
11 Ethanol	46	2.690	2.623	0.067	24	2458	200.0	203.1	M
17 1,1-Dichloroethene	96	2.666	2.666	0.000	93	13682	5.00	4.93	
14 1,2-Dichloro-1,1,2-trifluo	117	2.666	2.684	-0.018	75	15896	5.00	4.85	
20 Carbon disulfide	76	2.696	2.709	-0.013	99	44251	5.00	4.55	
15 1,1,2-Trichloro-1,2,2-trif	101	2.715	2.721	-0.006	89	16217	5.00	4.82	a
19 Iodomethane	142	2.788	2.800	-0.012	97	25558	5.00	4.77	
23 Cyclopentene	67	2.903	2.909	-0.006	95	30948	5.00	4.50	
16 Acrolein	56	2.934	2.940	-0.006	88	5969	20.0	18.5	
22 3-Chloro-1-propene	76	3.049	3.055	-0.006	93	7218	5.00	4.35	
21 Isopropyl alcohol	45	3.055	3.068	-0.013	14	6678	50.0	55.9	
26 Methylene Chloride	84	3.141	3.147	-0.007	89	15615	5.00	4.68	
18 Acetone	58	3.183	3.189	-0.006	85	5259	25.0	26.8	
30 trans-1,2-Dichloroethene	96	3.268	3.274	-0.006	91	15488	5.00	4.85	
24 Methyl acetate	74	3.274	3.274	0.000	69	4164	10.0	11.8	
32 Hexane	56	3.311	3.323	-0.012	81	12588	5.00	5.21	
29 Methyl tert-butyl ether	73	3.353	3.366	-0.013	53	39734	5.00	4.79	
* 27 TBA-d9 (IS)	65	3.366	3.366	0.000	50	190655	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.414	3.433	-0.019	95	10892	50.0	47.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.579	3.585	-0.006	98	5772	50.0	44.0	Ma
33 Isopropyl ether	45	3.658	3.664	-0.006	94	43823	5.00	4.88	
36 2-Chloro-1,3-butadiene	88	3.773	3.773	0.000	89	11228	5.00	4.43	
34 1,1-Dichloroethane	63	3.791	3.798	-0.007	99	23879	5.00	4.87	
31 Acrylonitrile	53	3.846	3.846	0.000	98	37842	50.0	48.7	
37 Tert-butyl ethyl ether	59	3.986	3.986	0.000	90	39591	5.00	4.59	
35 Vinyl acetate	86	3.986	3.998	-0.012	99	5376	10.0	9.77	M
40 cis-1,2-Dichloroethene	96	4.272	4.272	0.000	97	15925	5.00	4.74	
38 2,2-Dichloropropane	79	4.382	4.388	-0.006	93	6289	5.00	4.56	
49 Cyclohexane	84	4.461	4.461	0.000	87	26696	5.00	4.52	
46 Chlorobromomethane	128	4.448	4.461	-0.013	84	8350	5.00	4.94	
48 Chloroform	83	4.515	4.521	-0.006	97	24200	5.00	4.92	
42 Ethyl acetate	70	4.625	4.619	0.006	99	2707	10.0	10.1	
43 Methyl acrylate	55	4.631	4.625	0.006	57	8427	5.00	4.42	
52 Carbon tetrachloride	117	4.643	4.655	-0.012	96	16131	5.00	4.36	
45 Tetrahydrofuran	72	4.655	4.667	-0.012	32	3639	10.0	11.0	
$ 51 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	98	124737	50.0	48.8	
50 1,1,1-Trichloroethane	97	4.722	4.722	0.000	94	20793	5.00	4.47	
* 39 2-Butanone-d5	46	4.753	4.759	-0.006	0	193356	250.0	250.0	
41 2-Butanone (MEK)	72	4.801	4.807	-0.006	99	6727	25.0	25.1	M
53 1,1-Dichloropropene	75	4.832	4.832	0.000	95	19070	5.00	4.92	a
54 Isooctane	57	4.917	4.929	-0.012	99	32109	5.00	4.30	
61 n-Heptane	57	5.014	5.020	-0.006	91	8526	5.00	4.35	
55 Benzene	78	5.069	5.075	-0.006	93	58616	5.00	4.96	
44 Propionitrile	54	5.118	5.118	0.000	39	15419	50.0	53.6	
47 Methacrylonitrile	67	5.124	5.130	-0.006	91	45247	50.0	48.3	
57 Tert-amyl methyl ether	73	5.179	5.179	0.000	97	39235	5.00	4.66	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.215	5.215	0.000	96	122074	50.0	47.8	
58 Isobutyl alcohol	43	5.288	5.282	0.006	63	9952	125.0	121.8	
60 1,2-Dichloroethane	62	5.282	5.288	-0.006	96	16595	5.00	4.90	
* 62 Fluorobenzene	96	5.495	5.495	0.000	100	531110	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	98	20099	5.00	5.05	
65 Methylcyclohexane	83	5.653	5.659	-0.006	93	24420	5.00	4.40	
64 Trichloroethene	95	5.665	5.671	-0.006	85	14223	5.00	4.89	
63 n-Butanol	56	6.024	6.030	-0.006	83	5658	125.0	114.3	a
71 Dibromomethane	93	6.128	6.134	-0.006	91	7021	5.00	4.56	
67 1,2-Dichloropropane	63	6.243	6.243	0.000	85	13181	5.00	4.91	
66 Ethyl acrylate	55	6.255	6.261	-0.006	97	11383	5.00	4.38	
73 Dichlorobromomethane	83	6.316	6.316	0.000	96	15214	5.00	4.75	
69 Methyl methacrylate	100	6.499	6.493	0.006	86	5847	10.0	8.07	
* 68 1,4-Dioxane-d8	96	6.505	6.505	0.000	88	24754	1000.0	1000.0	
70 1,4-Dioxane	88	6.547	6.535	0.012	76	3437	100.0	110.8	
72 n-Propyl acetate	43	6.663	6.663	0.000	97	13024	5.00	4.76	
75 2-Chloroethyl vinyl ether	63	6.991	6.991	0.000	95	6106	5.00	4.39	
77 cis-1,3-Dichloropropene	75	7.058	7.058	0.000	91	17331	5.00	4.43	
$ 79 Toluene-d8 (Surr)	98	7.277	7.283	-0.006	99	523951	50.0	49.2	
80 Toluene	91	7.344	7.344	0.000	92	65789	5.00	5.06	
76 Epichlorohydrin	57	7.375	7.375	0.000	98	18575	100.0	90.0	
74 2-Nitropropane	41	7.655	7.661	-0.006	81	2961	10.0	8.98	
84 Tetrachloroethene	166	7.831	7.831	0.000	94	16250	5.00	4.88	
78 4-Methyl-2-pentanone (MIBK	43	7.849	7.849	0.000	96	44363	25.0	22.6	
81 trans-1,3-Dichloropropene	75	7.892	7.886	0.006	90	15343	5.00	4.46	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.099	8.105	-0.006	87	8507	5.00	4.51	
82 Ethyl methacrylate	69	8.123	8.117	0.006	81	13127	5.00	4.34	a
88 Chlorodibromomethane	129	8.324	8.330	-0.006	97	9630	5.00	4.31	
85 1,3-Dichloropropane	76	8.470	8.464	0.006	93	19709	5.00	4.77	
89 Ethylene Dibromide	107	8.628	8.640	-0.012	99	10480	5.00	4.72	
87 n-Butyl acetate	43	8.859	8.859	0.000	98	13617	5.00	4.33	
86 2-Hexanone	58	8.962	8.962	0.000	97	16562	25.0	22.7	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	84	414843	50.0	50.0	
91 Chlorobenzene	112	9.285	9.285	0.000	93	42045	5.00	4.96	
92 Ethylbenzene	106	9.321	9.328	-0.007	97	22716	5.00	4.85	
93 1,1,1,2-Tetrachloroethane	131	9.370	9.370	0.000	90	11978	5.00	4.26	
94 m-Xylene & p-Xylene	106	9.498	9.492	0.006	0	24442	5.00	4.35	
96 o-Xylene	106	9.960	9.954	0.006	95	24930	5.00	4.52	
97 Styrene	104	10.015	10.015	0.000	97	36874	5.00	4.33	
99 Bromoform	173	10.027	10.027	0.000	93	5556	5.00	4.23	
95 n-Butyl acrylate	73	10.173	10.167	0.006	98	7394	5.00	4.38	
100 Isopropylbenzene	105	10.270	10.277	-0.007	95	65591	5.00	4.51	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	92	16283	5.00	4.03	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	92	162875	50.0	48.2	
102 Bromobenzene	156	10.635	10.635	0.000	96	17957	5.00	4.87	
104 N-Propylbenzene	91	10.672	10.672	0.000	100	74043	5.00	4.66	
103 1,1,2,2-Tetrachloroethane	83	10.751	10.751	0.000	96	13085	5.00	4.62	
108 4-Ethyltoluene	105	10.775	10.775	0.000	98	64066	5.00	4.64	
107 2-Chlorotoluene	91	10.806	10.806	0.000	96	53348	5.00	4.81	
109 1,3,5-Trimethylbenzene	105	10.861	10.861	0.000	94	53617	5.00	4.49	
105 1,2,3-Trichloropropane	110	10.867	10.867	0.000	58	4923	5.00	5.00	
106 trans-1,4-Dichloro-2-buten	53	10.909	10.909	0.000	77	3150	5.00	4.36	
110 4-Chlorotoluene	91	10.958	10.958	0.000	97	46779	5.00	4.77	
111 Butyl Methacrylate	87	11.140	11.140	0.000	52	13424	5.00	3.82	
112 tert-Butylbenzene	119	11.140	11.140	0.000	93	45887	5.00	4.50	
113 1,2,4-Trimethylbenzene	105	11.201	11.201	0.000	97	54243	5.00	4.31	
114 sec-Butylbenzene	105	11.293	11.293	0.000	99	65666	5.00	4.42	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	98	56945	5.00	4.26	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	37408	5.00	5.02	
* 117 1,4-Dichlorobenzene-d4	152	11.536	11.536	0.000	93	239558	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	94	36200	5.00	4.85	
134 1,2,3-Trimethylbenzene	105	11.572	11.572	0.000	96	61454	5.00	4.55	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	94	62502	5.00	4.62	
121 p-Diethylbenzene	119	11.724	11.724	0.000	98	32455	5.00	4.51	
119 Benzyl chloride	126	11.767	11.767	0.000	90	4599	5.00	4.02	
122 n-Butylbenzene	92	11.773	11.773	0.000	95	27657	5.00	4.33	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	97	34057	5.00	4.64	
124 1,2,4,5-Tetramethylbenzene	119	12.369	12.369	0.000	98	52121	5.00	4.10	
125 1,2-Dibromo-3-Chloropropan	155	12.540	12.546	-0.006	68	2297	5.00	4.54	
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	96	28626	5.00	4.93	
128 Hexachlorobutadiene	225	13.026	13.026	0.000	92	7892	5.00	4.27	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	93	25399	5.00	4.69	
129 Naphthalene	128	13.312	13.312	0.000	99	48820	5.00	4.17	
130 1,2,3-Trichlorobenzene	180	13.458	13.464	-0.006	95	22731	5.00	4.52	
S 131 1,2-Dichloroethene, Total	100				0		10.0	9.59	
S 132 Xylenes, Total	100				0		10.0	8.87	
S 133 Total BTEX	1				0		25.0	23.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GAS Hi_00257	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
MIX I Hi_00094	Amount Added:	1.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Jun-2018 14:48:01 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D

Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11 Operator ID:

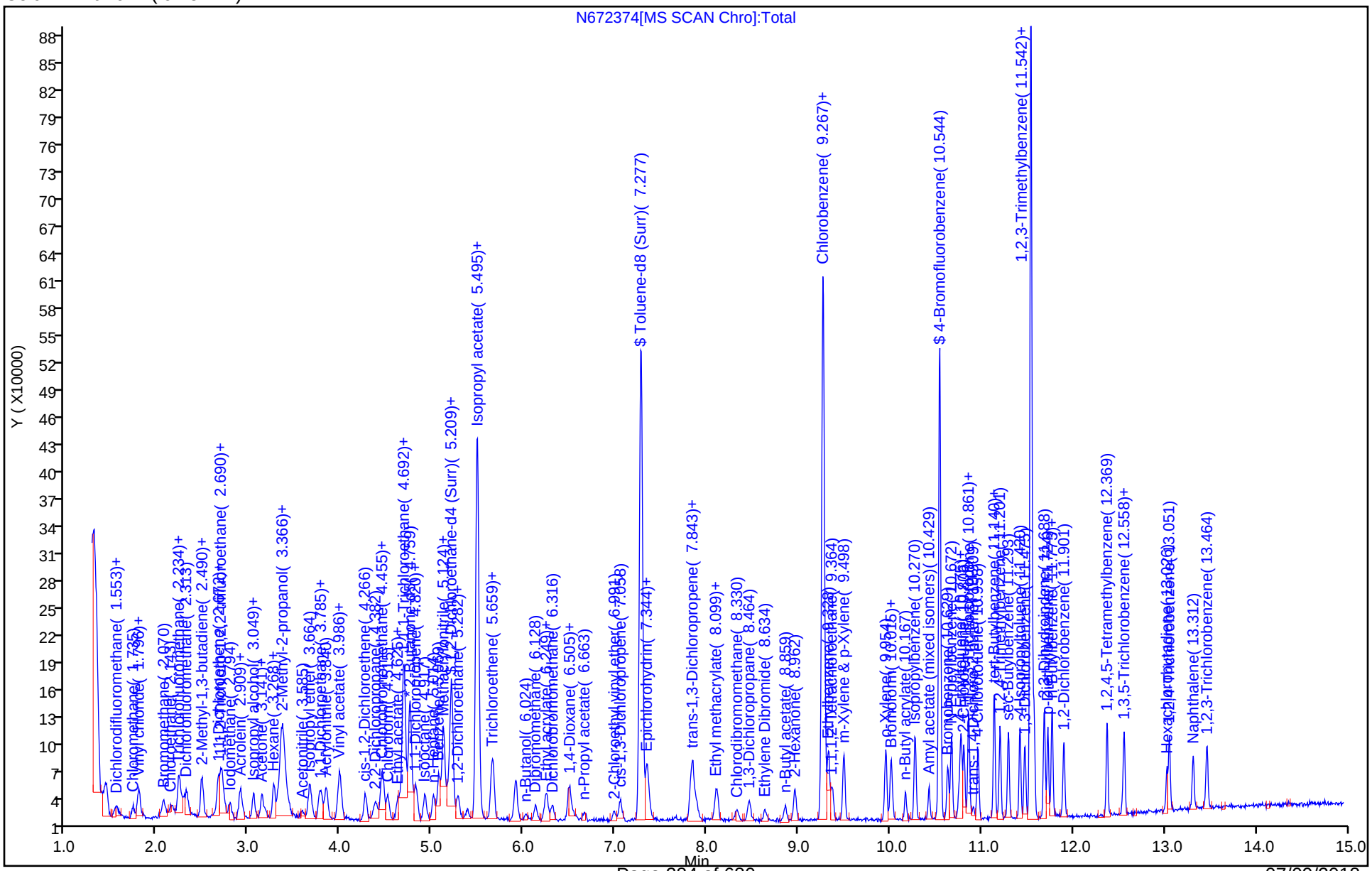
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

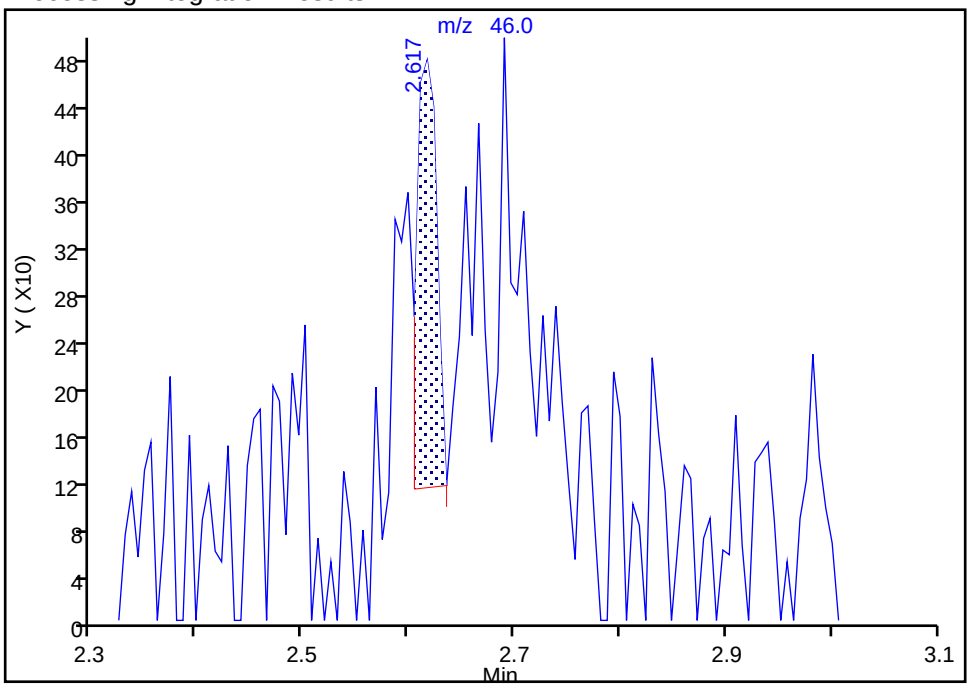
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

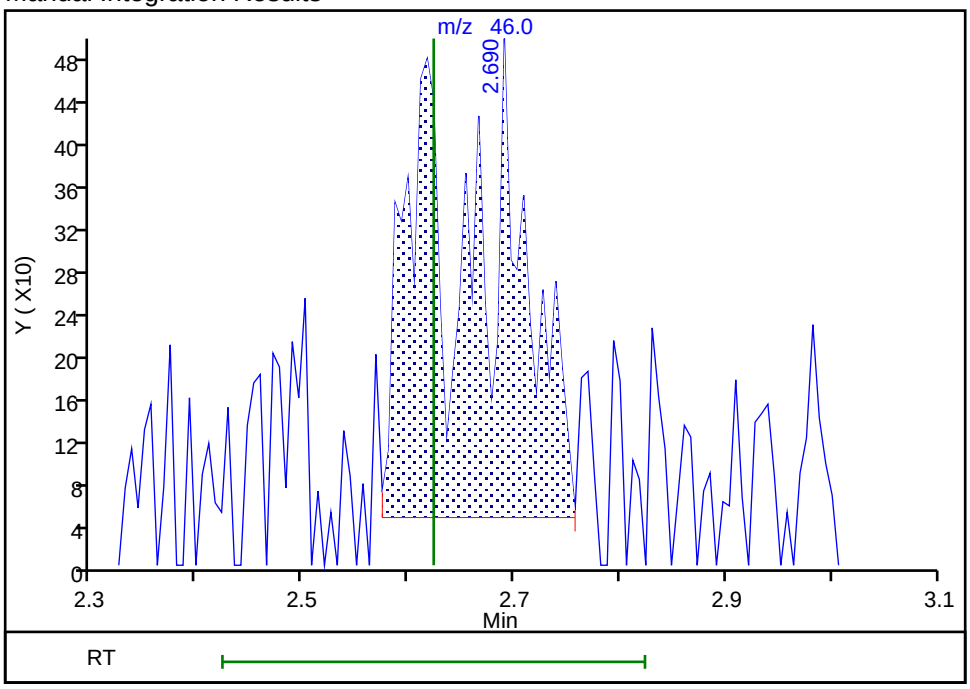
Processing Integration Results

RT: 2.62
Area: 480
Amount: 61.057712
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 2458
Amount: 203.1357
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:38:54
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

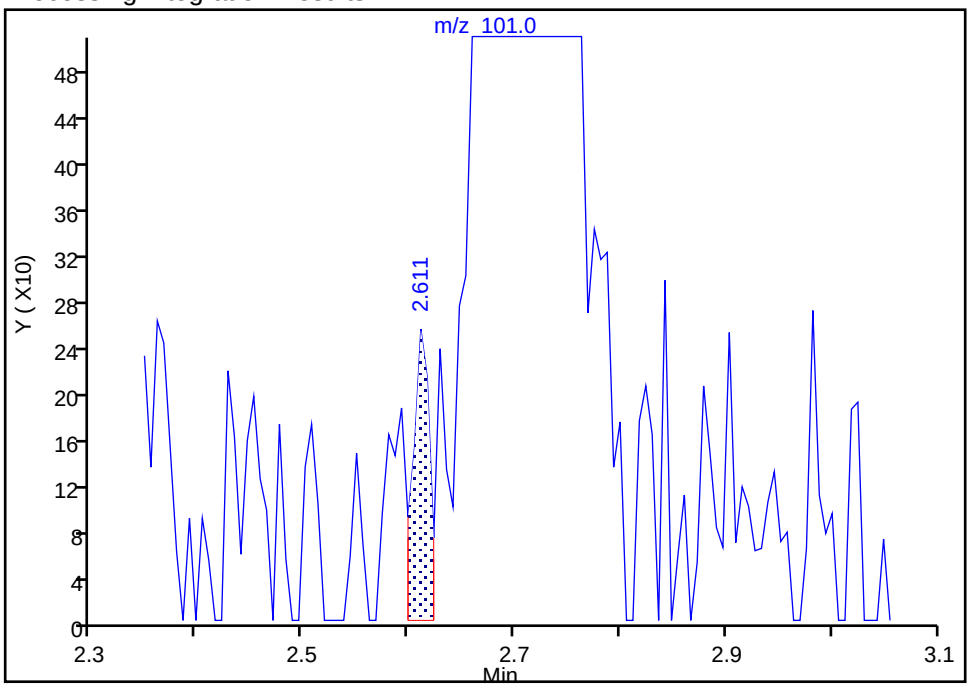
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

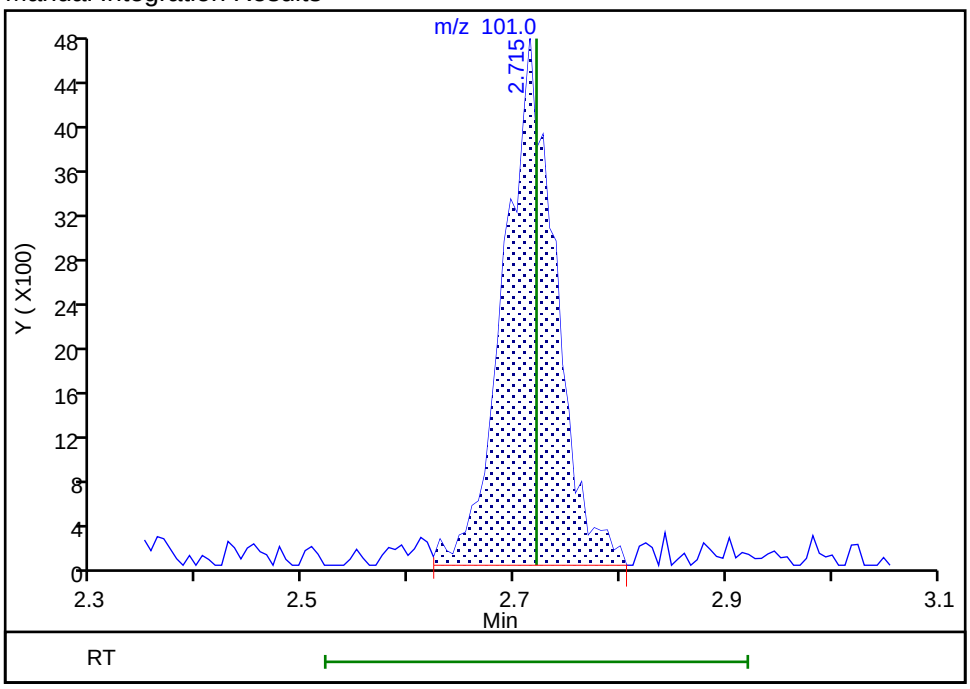
Processing Integration Results

RT: 2.61
Area: 280
Amount: 11.129519
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 16217
Amount: 4.819021
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:25:05
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

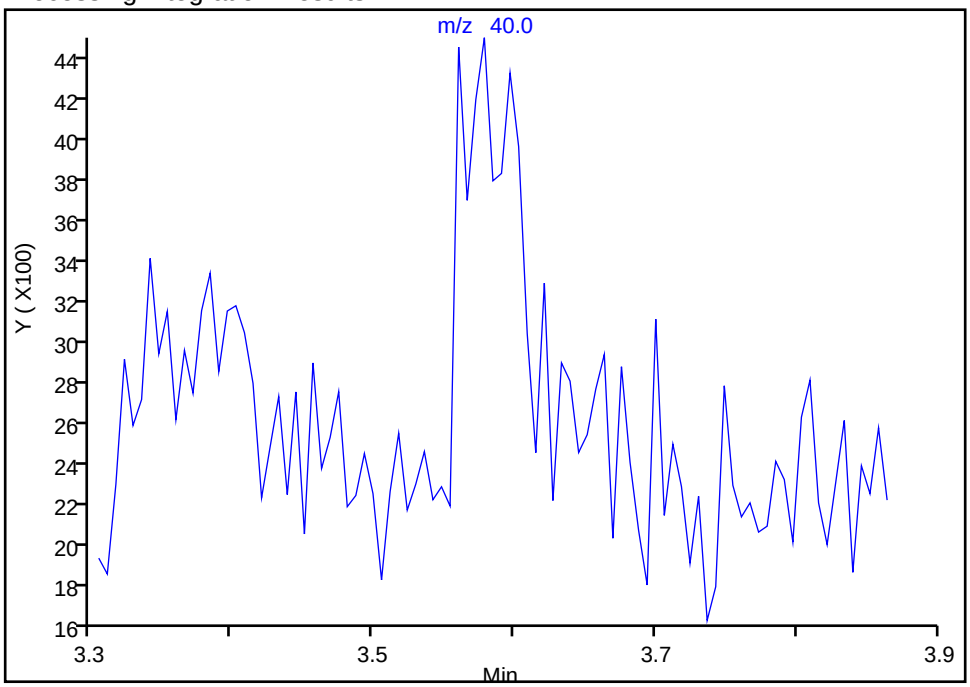
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

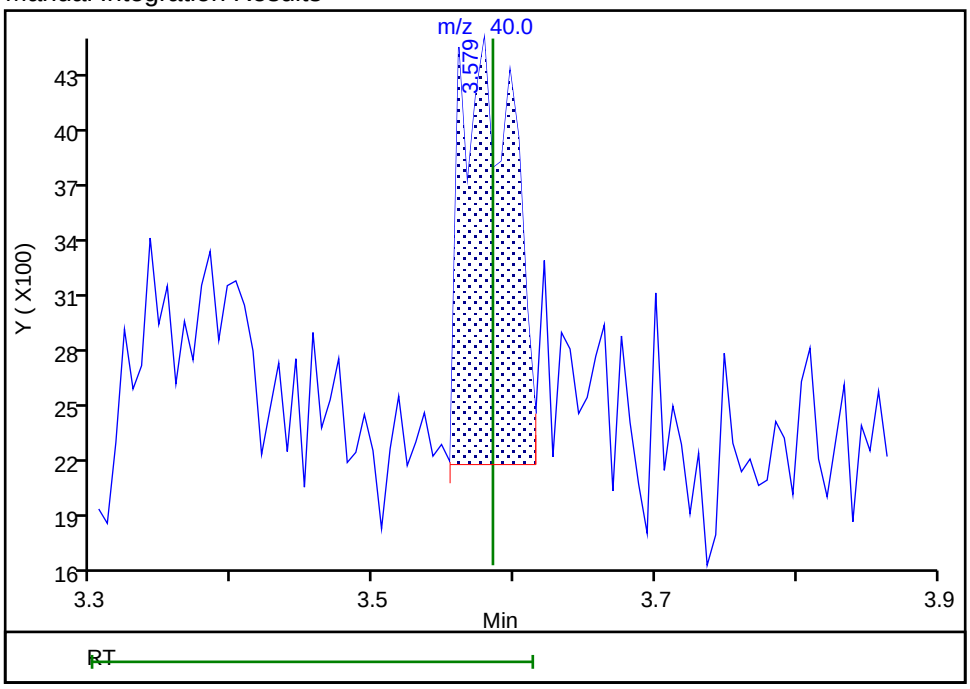
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 5772
Amount: 44.006671
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:25:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

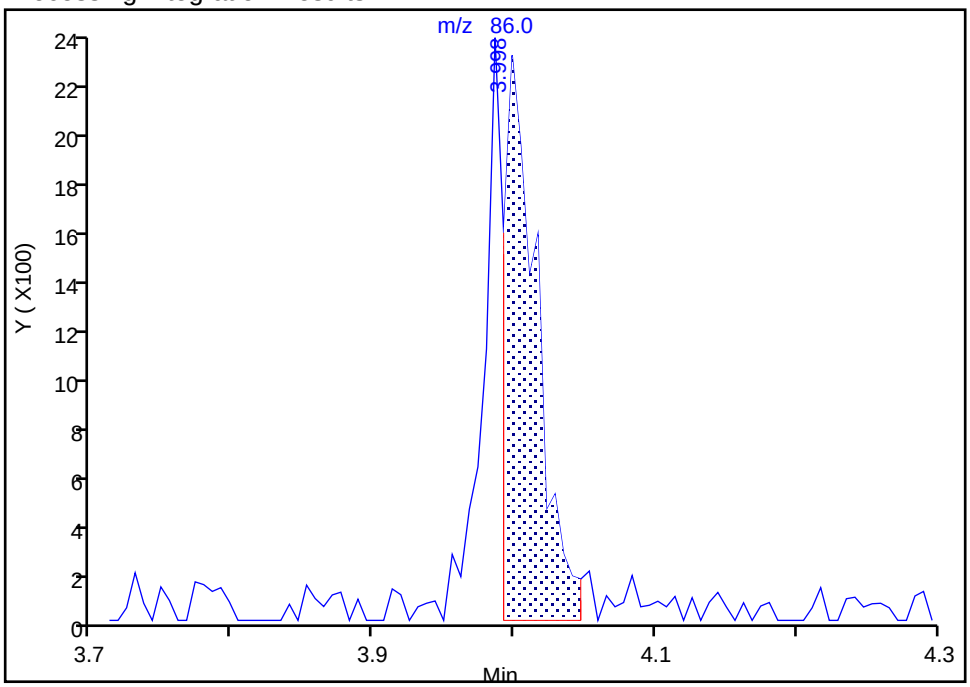
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

35 Vinyl acetate, CAS: 108-05-4

Signal: 1

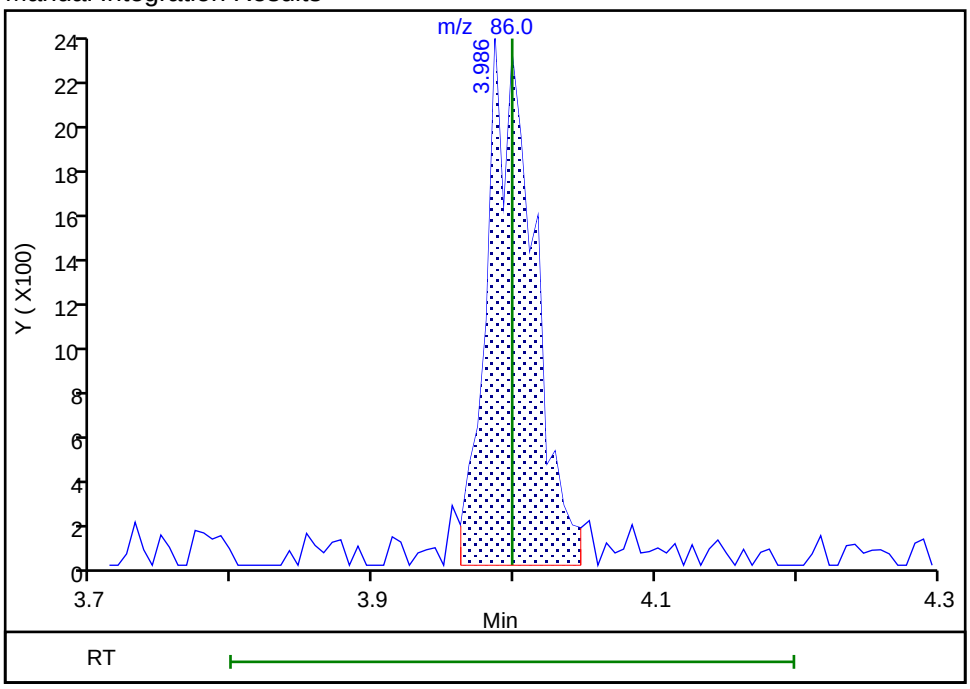
Processing Integration Results

RT: 4.00
Area: 3690
Amount: 7.067180
Amount Units: ug/l



Manual Integration Results

RT: 3.99
Area: 5376
Amount: 9.770426
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:25:34
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

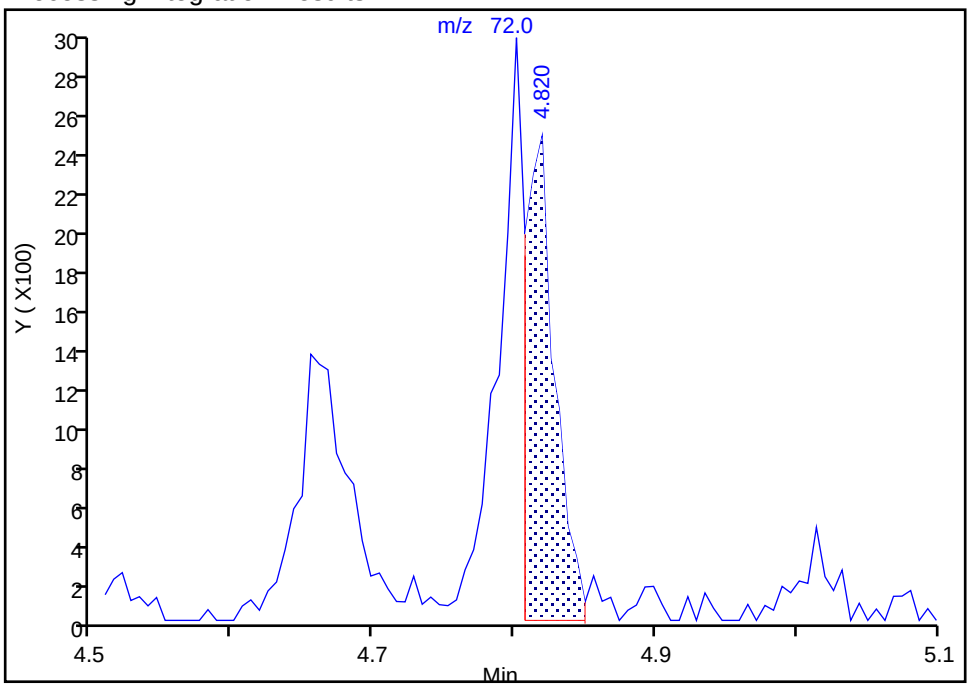
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

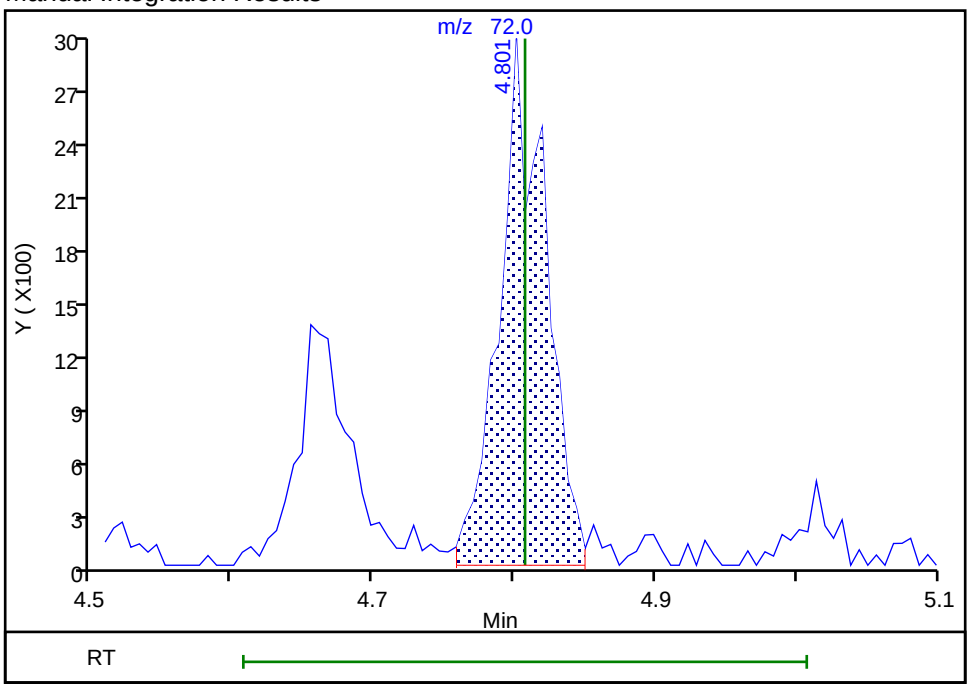
Processing Integration Results

RT: 4.82
Area: 3605
Amount: 12.456222
Amount Units: ug/l



Manual Integration Results

RT: 4.80
Area: 6727
Amount: 25.097122
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:26:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

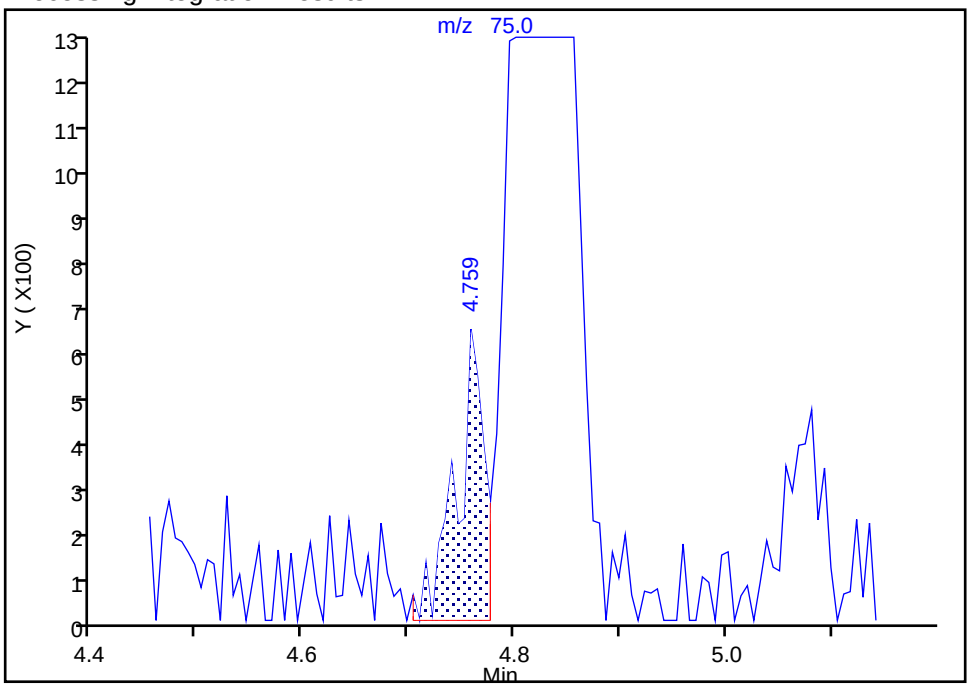
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

53 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

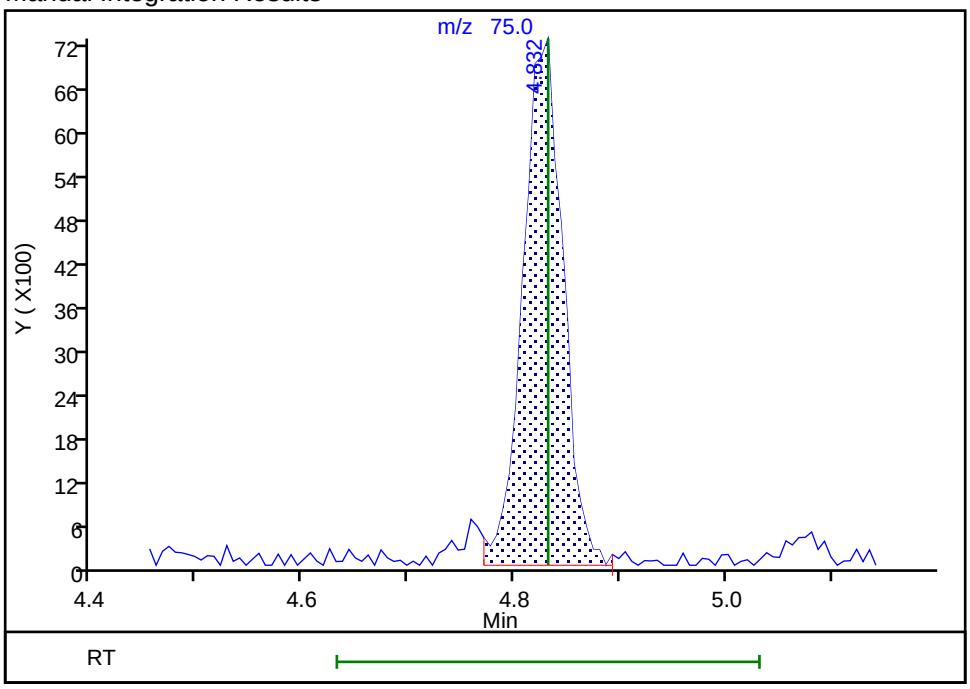
Processing Integration Results

RT: 4.76
Area: 1138
Amount: 0.294717
Amount Units: ug/l



Manual Integration Results

RT: 4.83
Area: 19070
Amount: 4.919645
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:26:08
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

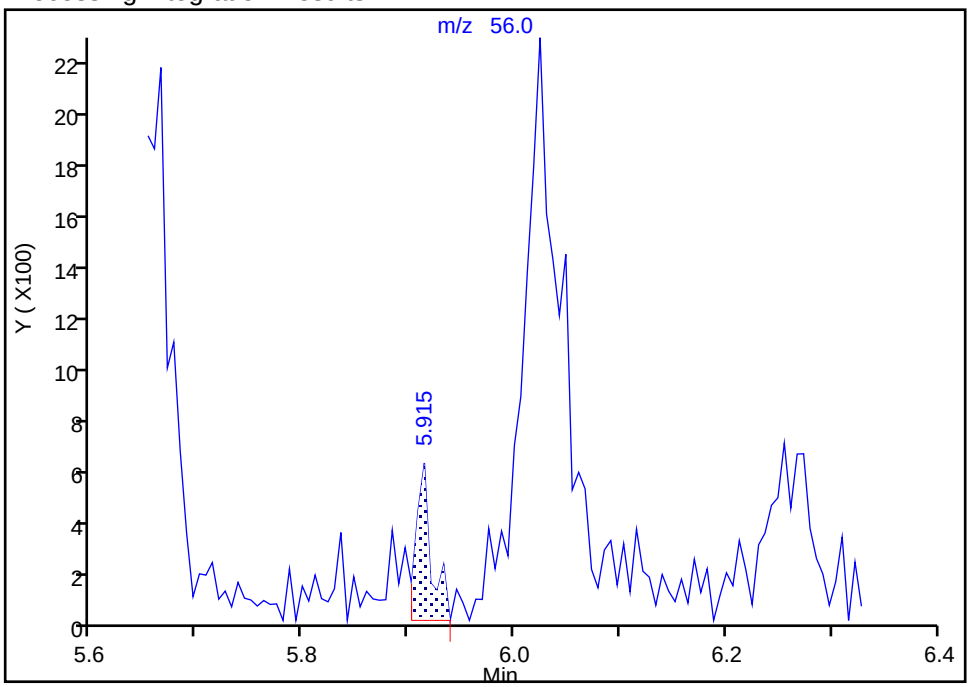
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

63 n-Butanol, CAS: 71-36-3

Signal: 1

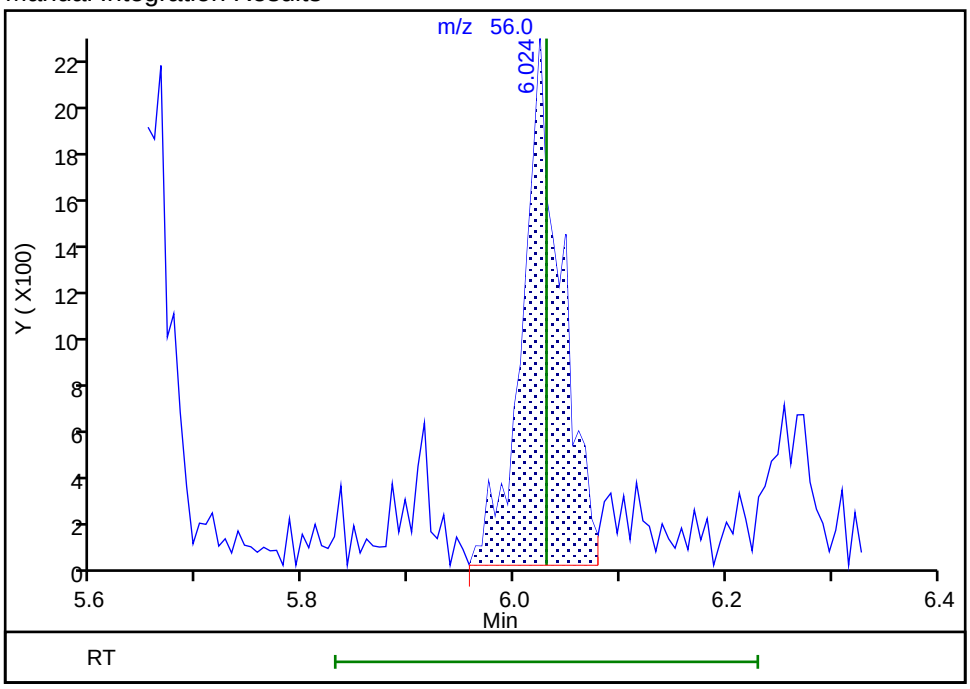
Processing Integration Results

RT: 5.91
Area: 594
Amount: 11.534765
Amount Units: ug/l



Manual Integration Results

RT: 6.02
Area: 5658
Amount: 114.2787
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:26:17
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

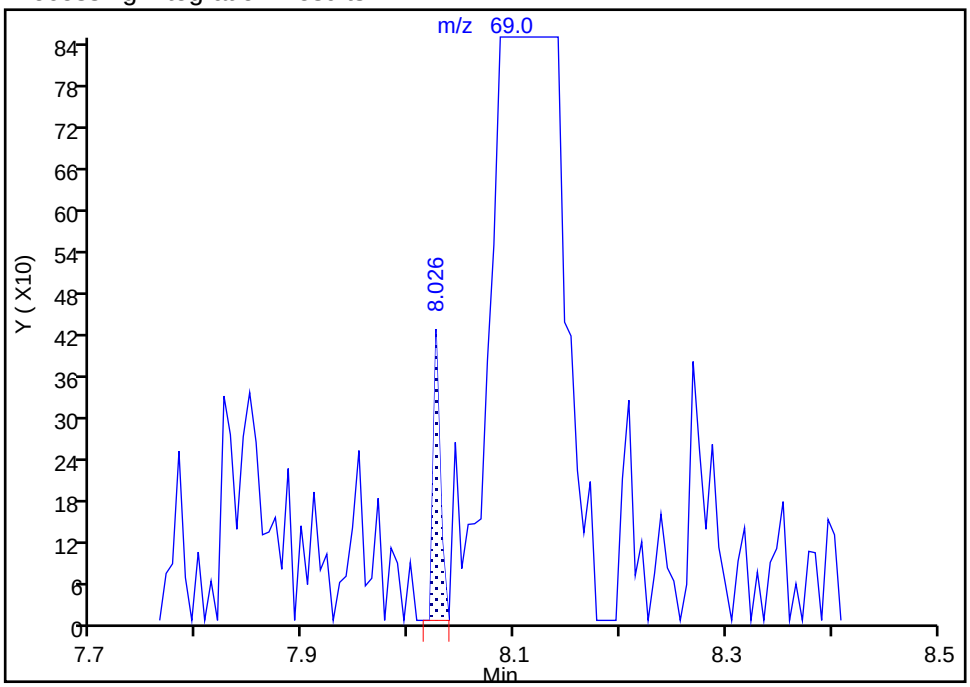
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672374.D
Injection Date: 05-Jun-2018 09:47:30 Instrument ID: CVOAMS11
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

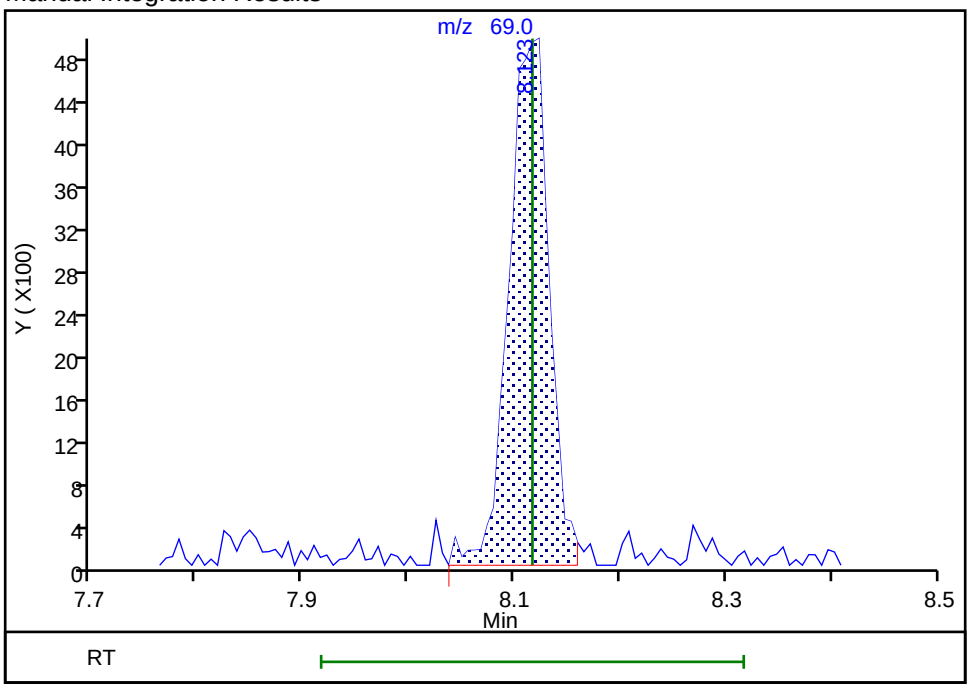
Processing Integration Results

RT: 8.03
Area: 196
Amount: 0.064737
Amount Units: ug/l



Manual Integration Results

RT: 8.12
Area: 13127
Amount: 4.335859
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:26:27
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 05-Jun-2018 10:10:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0073222-006
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:48:21 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: tupayachia Date: 05-Jun-2018 11:08:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.547	1.547	0.000	87	46700	20.0	18.8	
2 Dichlorodifluoromethane	87	1.571	1.571	0.000	99	28961	20.0	18.3	
3 Chloromethane	52	1.741	1.741	0.000	99	22814	20.0	18.5	
5 Butadiene	54	1.796	1.796	0.000	96	63524	20.0	19.6	
4 Vinyl chloride	62	1.814	1.814	0.000	97	76737	20.0	19.9	
6 Bromomethane	94	2.076	2.076	0.000	97	43233	20.0	18.6	
7 Chloroethane	64	2.161	2.161	0.000	98	37535	20.0	19.7	
10 Pentane	72	2.246	2.246	0.000	97	21814	40.0	40.7	
9 Trichlorofluoromethane	101	2.289	2.289	0.000	98	101912	20.0	19.9	
8 Dichlorofluoromethane	67	2.325	2.325	0.000	99	119947	20.0	20.3	
12 Ethyl ether	59	2.490	2.490	0.000	70	42965	20.0	20.0	
13 2-Methyl-1,3-butadiene	53	2.490	2.490	0.000	96	46735	20.0	19.3	
11 Ethanol	46	2.623	2.623	0.000	100	10984	800.0	867.8	a
17 1,1-Dichloroethene	96	2.666	2.666	0.000	97	55205	20.0	20.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.684	2.684	0.000	76	63997	20.0	19.6	
20 Carbon disulfide	76	2.709	2.709	0.000	99	187480	20.0	19.3	
15 1,1,2-Trichloro-1,2,2-trif	101	2.721	2.721	0.000	40	67299	20.0	20.1	a
19 Iodomethane	142	2.800	2.800	0.000	97	105192	20.0	19.7	
23 Cyclopentene	67	2.909	2.909	0.000	97	135981	20.0	19.8	
16 Acrolein	56	2.940	2.940	0.000	89	14174	40.0	42.0	
22 3-Chloro-1-propene	76	3.055	3.055	0.000	93	32372	20.0	19.6	
21 Isopropyl alcohol	45	3.068	3.068	0.000	24	24285	200.0	194.5	
26 Methylene Chloride	84	3.147	3.147	0.000	91	63751	20.0	19.2	
18 Acetone	58	3.189	3.189	0.000	88	18624	100.0	93.1	
24 Methyl acetate	74	3.274	3.274	0.000	67	14963	40.0	40.7	
30 trans-1,2-Dichloroethene	96	3.274	3.274	0.000	92	63019	20.0	19.8	
32 Hexane	56	3.323	3.323	0.000	90	46928	20.0	19.5	
* 27 TBA-d9 (IS)	65	3.366	3.366	0.000	100	199436	1000.0	1000.0	
29 Methyl tert-butyl ether	73	3.366	3.366	0.000	96	161202	20.0	19.5	
28 2-Methyl-2-propanol	59	3.433	3.433	0.000	97	45365	200.0	186.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.585	3.585	0.000	99	30958	200.0	225.6	a
33 Isopropyl ether	45	3.664	3.664	0.000	96	174282	20.0	19.5	
36 2-Chloro-1,3-butadiene	88	3.773	3.773	0.000	88	48671	20.0	19.3	
34 1,1-Dichloroethane	63	3.798	3.798	0.000	99	96610	20.0	19.8	
31 Acrylonitrile	53	3.846	3.846	0.000	98	162850	200.0	200.3	
37 Tert-butyl ethyl ether	59	3.986	3.986	0.000	90	171813	20.0	20.0	
35 Vinyl acetate	86	3.998	3.998	0.000	99	23330	40.0	41.6	
40 cis-1,2-Dichloroethene	96	4.272	4.272	0.000	98	65363	20.0	19.5	
38 2,2-Dichloropropane	79	4.388	4.388	0.000	94	28195	20.0	20.5	
46 Chlorobromomethane	128	4.461	4.461	0.000	86	33217	20.0	19.7	
49 Cyclohexane	84	4.461	4.461	0.000	86	113996	20.0	19.4	
48 Chloroform	83	4.521	4.521	0.000	99	96857	20.0	19.8	
42 Ethyl acetate	70	4.619	4.619	0.000	100	9937	40.0	36.4	
43 Methyl acrylate	55	4.625	4.625	0.000	59	35911	20.0	18.9	a
52 Carbon tetrachloride	117	4.655	4.655	0.000	98	69743	20.0	18.9	
45 Tetrahydrofuran	72	4.667	4.667	0.000	89	12733	40.0	37.9	
$ 51 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	98	130341	50.0	51.1	
50 1,1,1-Trichloroethane	97	4.722	4.722	0.000	94	90097	20.0	19.4	
* 39 2-Butanone-d5	46	4.759	4.759	0.000	0	197279	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	99	28736	100.0	105.1	
53 1,1-Dichloropropene	75	4.832	4.832	0.000	98	75196	20.0	19.5	
54 Isooctane	57	4.929	4.929	0.000	99	145323	20.0	19.5	
61 n-Heptane	57	5.020	5.020	0.000	91	35715	20.0	18.3	
55 Benzene	78	5.075	5.075	0.000	93	238062	20.0	19.8	
44 Propionitrile	54	5.118	5.118	0.000	42	61720	200.0	205.1	
47 Methacrylonitrile	67	5.130	5.130	0.000	90	190979	200.0	204.4	
57 Tert-amyl methyl ether	73	5.179	5.179	0.000	98	166338	20.0	19.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.215	5.215	0.000	96	126561	50.0	49.7	
58 Isobutyl alcohol	43	5.282	5.282	0.000	63	40022	500.0	468.1	
60 1,2-Dichloroethane	62	5.288	5.288	0.000	97	64225	20.0	19.0	
* 62 Fluorobenzene	96	5.495	5.495	0.000	99	529675	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	98	76361	20.0	19.2	
65 Methylcyclohexane	83	5.659	5.659	0.000	94	106234	20.0	19.2	
64 Trichloroethene	95	5.671	5.671	0.000	94	57082	20.0	19.7	
63 n-Butanol	56	6.030	6.030	0.000	88	24572	500.0	474.4	
71 Dibromomethane	93	6.134	6.134	0.000	92	31082	20.0	20.3	
67 1,2-Dichloropropane	63	6.243	6.243	0.000	89	52841	20.0	19.8	
66 Ethyl acrylate	55	6.261	6.261	0.000	98	47422	20.0	18.3	
73 Dichlorobromomethane	83	6.316	6.316	0.000	99	60745	20.0	19.0	
69 Methyl methacrylate	100	6.493	6.493	0.000	85	26959	40.0	37.3	
* 68 1,4-Dioxane-d8	96	6.505	6.505	0.000	90	26048	1000.0	1000.0	
70 1,4-Dioxane	88	6.535	6.535	0.000	86	13019	400.0	398.7	
72 n-Propyl acetate	43	6.663	6.663	0.000	98	51507	20.0	18.9	
75 2-Chloroethyl vinyl ether	63	6.991	6.991	0.000	95	26102	20.0	18.8	
77 cis-1,3-Dichloropropene	75	7.058	7.058	0.000	91	74736	20.0	18.8	
$ 79 Toluene-d8 (Surr)	98	7.283	7.283	0.000	99	535268	50.0	49.4	
80 Toluene	91	7.344	7.344	0.000	93	250355	20.0	18.9	
76 Epichlorohydrin	57	7.375	7.375	0.000	99	75514	400.0	358.4	
74 2-Nitropropane	41	7.661	7.661	0.000	96	11478	40.0	33.3	
84 Tetrachloroethene	166	7.831	7.831	0.000	95	64413	20.0	19.0	
78 4-Methyl-2-pentanone (MIBK	43	7.849	7.849	0.000	95	194765	100.0	97.3	
81 trans-1,3-Dichloropropene	75	7.886	7.886	0.000	95	65837	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.105	8.105	0.000	96	36397	20.0	18.9	
82 Ethyl methacrylate	69	8.117	8.117	0.000	88	56196	20.0	18.6	
88 Chlorodibromomethane	129	8.330	8.330	0.000	96	39836	20.0	17.5	
85 1,3-Dichloropropane	76	8.464	8.464	0.000	92	78635	20.0	18.7	
89 Ethylene Dibromide	107	8.640	8.640	0.000	100	43326	20.0	19.1	
87 n-Butyl acetate	43	8.859	8.859	0.000	97	59041	20.0	18.4	
86 2-Hexanone	58	8.962	8.962	0.000	95	71944	100.0	96.7	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	84	422711	50.0	50.0	
91 Chlorobenzene	112	9.285	9.285	0.000	98	174627	20.0	20.2	
92 Ethylbenzene	106	9.328	9.328	0.000	96	94662	20.0	19.8	
93 1,1,1,2-Tetrachloroethane	131	9.370	9.370	0.000	94	52395	20.0	18.3	
94 m-Xylene & p-Xylene	106	9.492	9.492	0.000	0	107719	20.0	18.8	
96 o-Xylene	106	9.954	9.954	0.000	96	109038	20.0	19.4	
97 Styrene	104	10.015	10.015	0.000	97	167478	20.0	19.3	
99 Bromoform	173	10.027	10.027	0.000	97	21892	20.0	16.4	
95 n-Butyl acrylate	73	10.167	10.167	0.000	98	31778	20.0	18.5	
100 Isopropylbenzene	105	10.277	10.277	0.000	94	290916	20.0	19.7	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	94	76581	20.0	18.7	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	94	170712	50.0	49.5	
102 Bromobenzene	156	10.635	10.635	0.000	92	73660	20.0	19.7	
104 N-Propylbenzene	91	10.672	10.672	0.000	100	321169	20.0	19.9	
103 1,1,2,2-Tetrachloroethane	83	10.751	10.751	0.000	97	56296	20.0	19.6	
108 4-Ethyltoluene	105	10.775	10.775	0.000	98	279735	20.0	20.0	
107 2-Chlorotoluene	91	10.806	10.806	0.000	97	223766	20.0	19.9	
109 1,3,5-Trimethylbenzene	105	10.861	10.861	0.000	94	237423	20.0	19.6	
105 1,2,3-Trichloropropane	110	10.867	10.867	0.000	93	18191	20.0	18.2	
106 trans-1,4-Dichloro-2-buten	53	10.909	10.909	0.000	85	13726	20.0	18.7	
110 4-Chlorotoluene	91	10.958	10.958	0.000	96	198433	20.0	19.9	
112 tert-Butylbenzene	119	11.140	11.140	0.000	93	201998	20.0	19.5	
111 Butyl Methacrylate	87	11.140	11.140	0.000	58	69452	20.0	19.5	
113 1,2,4-Trimethylbenzene	105	11.201	11.201	0.000	96	251116	20.0	19.7	
114 sec-Butylbenzene	105	11.293	11.293	0.000	99	294440	20.0	19.5	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	98	266774	20.0	19.7	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	149618	20.0	19.8	
* 117 1,4-Dichlorobenzene-d4	152	11.536	11.536	0.000	93	243008	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	96	152489	20.0	20.1	
134 1,2,3-Trimethylbenzene	105	11.572	11.572	0.000	97	271615	20.0	19.8	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	94	271127	20.0	19.8	
121 p-Diethylbenzene	119	11.724	11.724	0.000	98	148667	20.0	20.4	
119 Benzyl chloride	126	11.767	11.767	0.000	91	20494	20.0	17.6	
122 n-Butylbenzene	92	11.773	11.773	0.000	95	134519	20.0	20.8	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	97	149393	20.0	20.1	
124 1,2,4,5-Tetramethylbenzene	119	12.369	12.369	0.000	98	246926	20.0	19.2	
125 1,2-Dibromo-3-Chloropropan	155	12.546	12.546	0.000	90	8883	20.0	17.3	
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	96	116991	20.0	19.9	
128 Hexachlorobutadiene	225	13.026	13.026	0.000	94	33814	20.0	18.0	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	93	109920	20.0	20.0	
129 Naphthalene	128	13.312	13.312	0.000	99	222234	20.0	18.7	
130 1,2,3-Trichlorobenzene	180	13.464	13.464	0.000	96	99570	20.0	19.5	
S 131 1,2-Dichloroethene, Total	100				0		40.0	39.3	
S 132 Xylenes, Total	100				0		40.0	38.2	
S 133 Total BTEX	1				0		100.0	96.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GAS Hi_00257	Amount Added:	2.00	Units: uL	
Ethanol mix_00016	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	2.00	Units: uL	
MIX I Hi_00094	Amount Added:	2.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

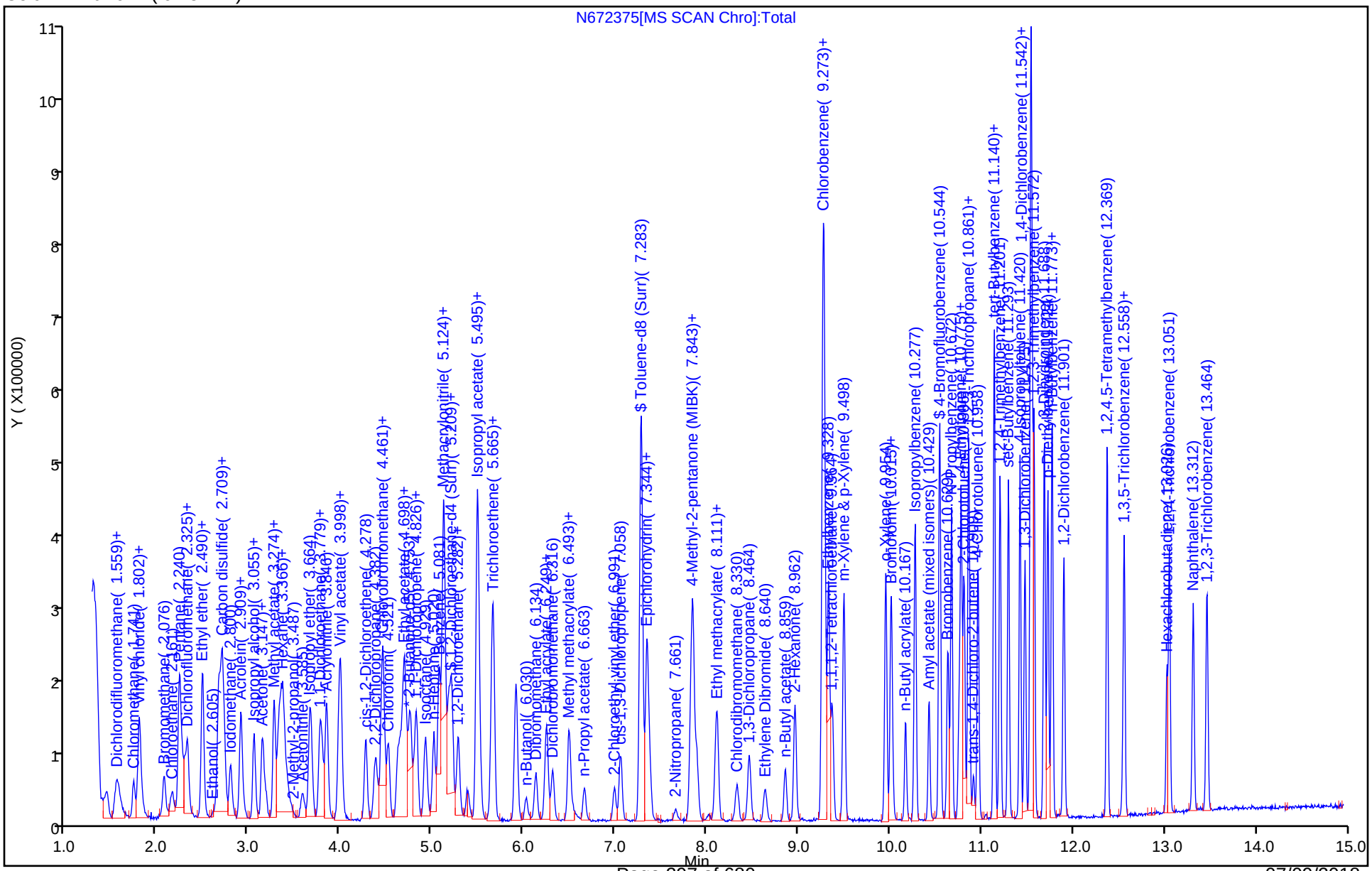
Report Date: 05-Jun-2018 14:48:26 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D

Injection Date:	05-Jun-2018 10:10:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

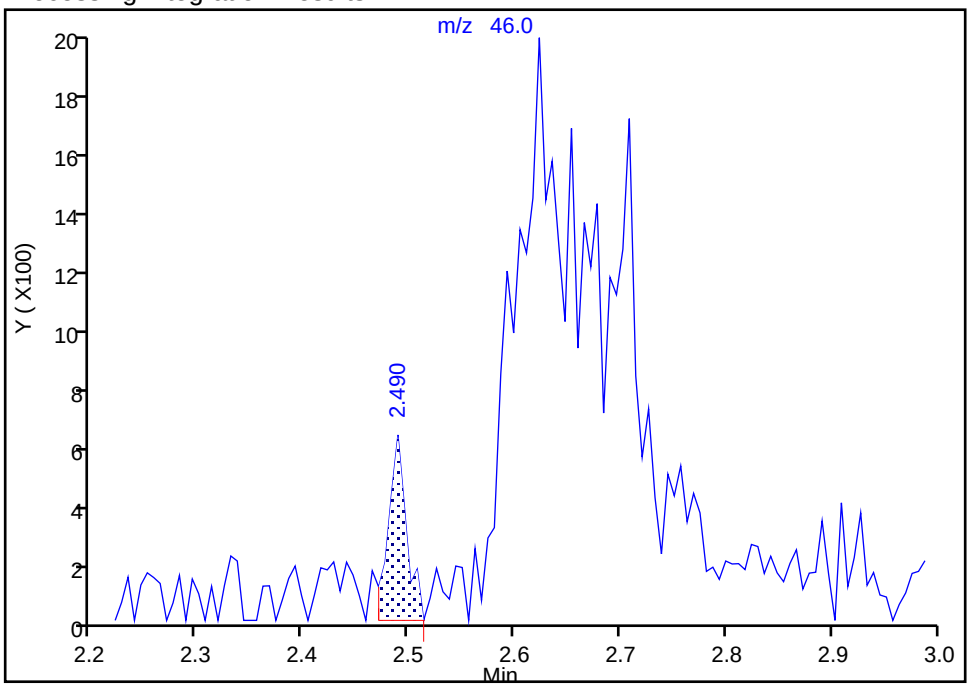
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D
Injection Date: 05-Jun-2018 10:10:30 Instrument ID: CVOAMS11
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

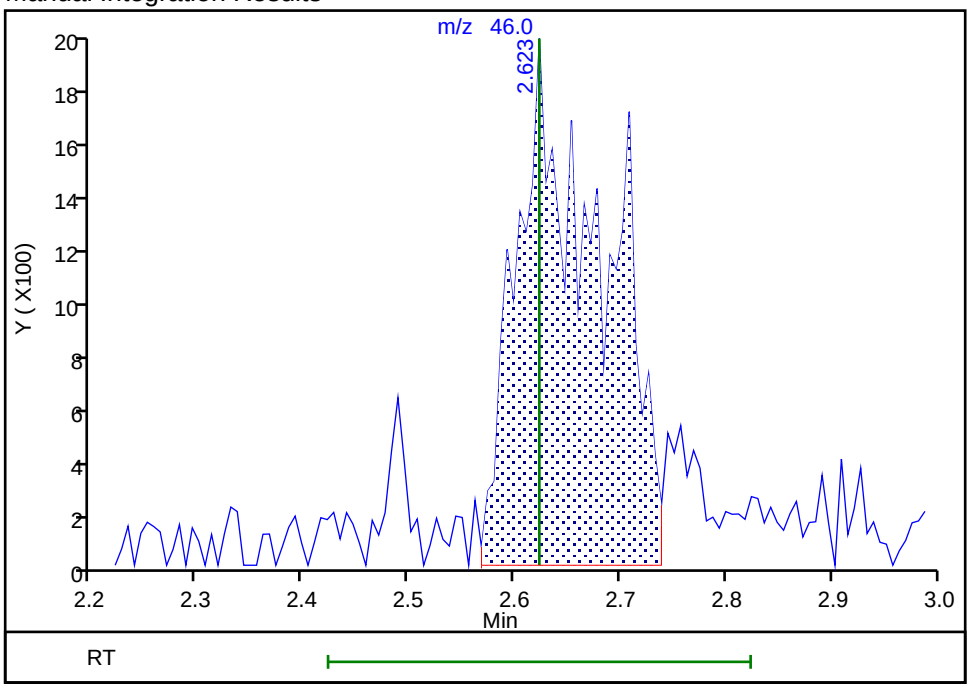
Processing Integration Results

RT: 2.49
Area: 748
Amount: 122.8044
Amount Units: ug/l



Manual Integration Results

RT: 2.62
Area: 10984
Amount: 867.7797
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:16:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

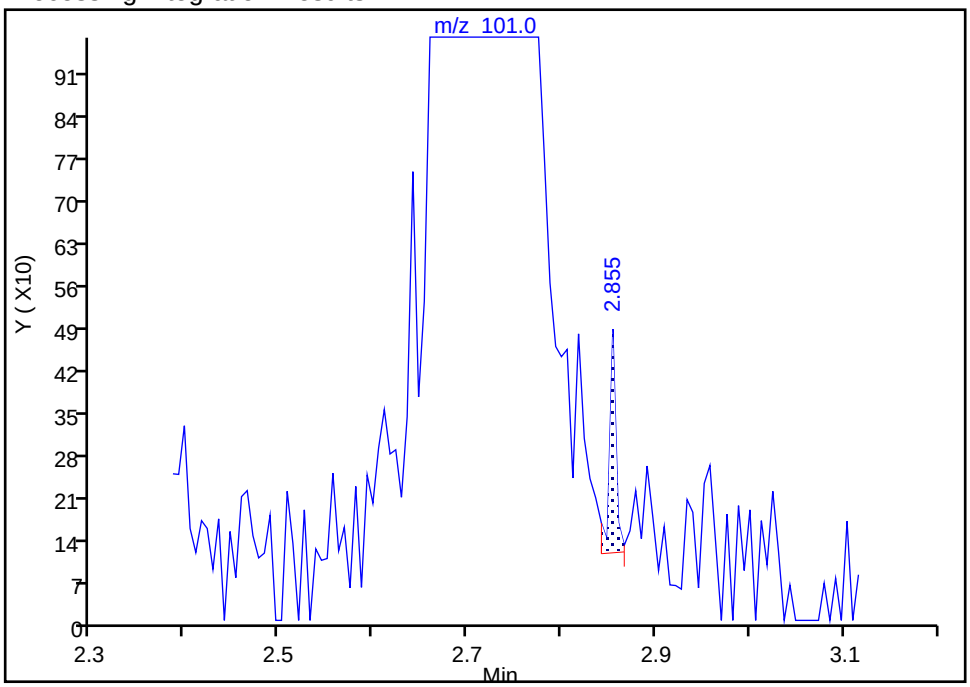
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D
Injection Date: 05-Jun-2018 10:10:30 Instrument ID: CVOAMS11
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

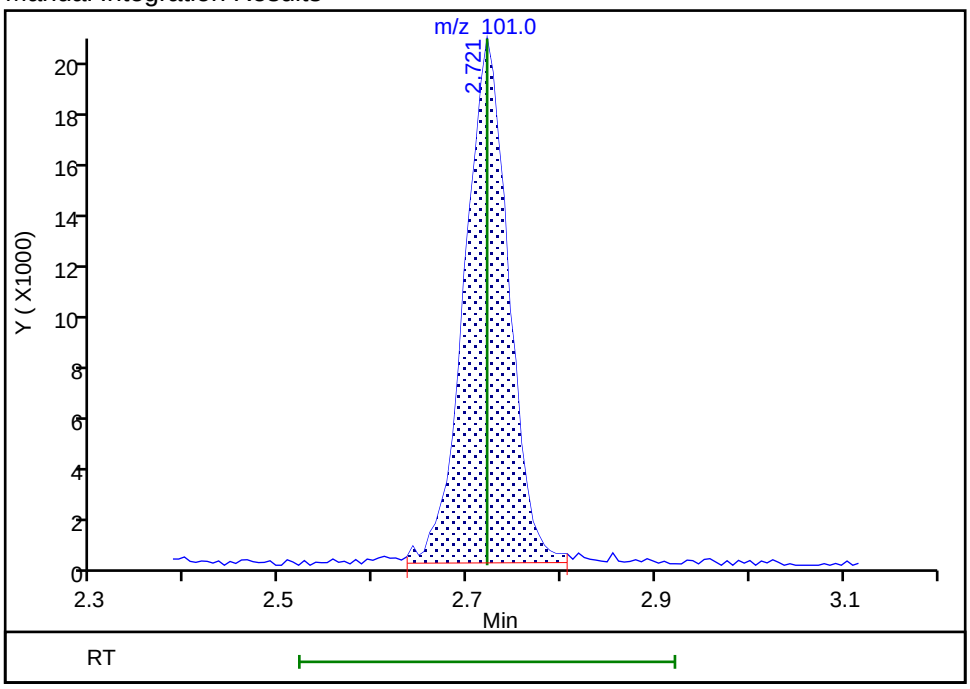
Processing Integration Results

RT: 2.85
Area: 185
Amount: 0.053631
Amount Units: ug/l



Manual Integration Results

RT: 2.72
Area: 67299
Amount: 20.052656
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:16:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

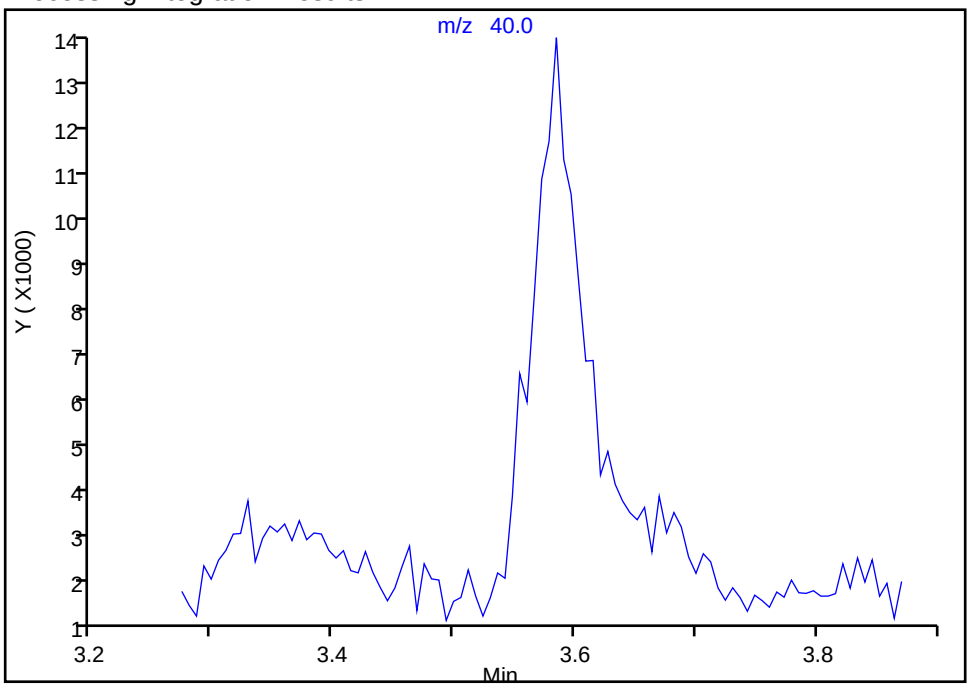
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D
Injection Date: 05-Jun-2018 10:10:30 Instrument ID: CVOAMS11
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

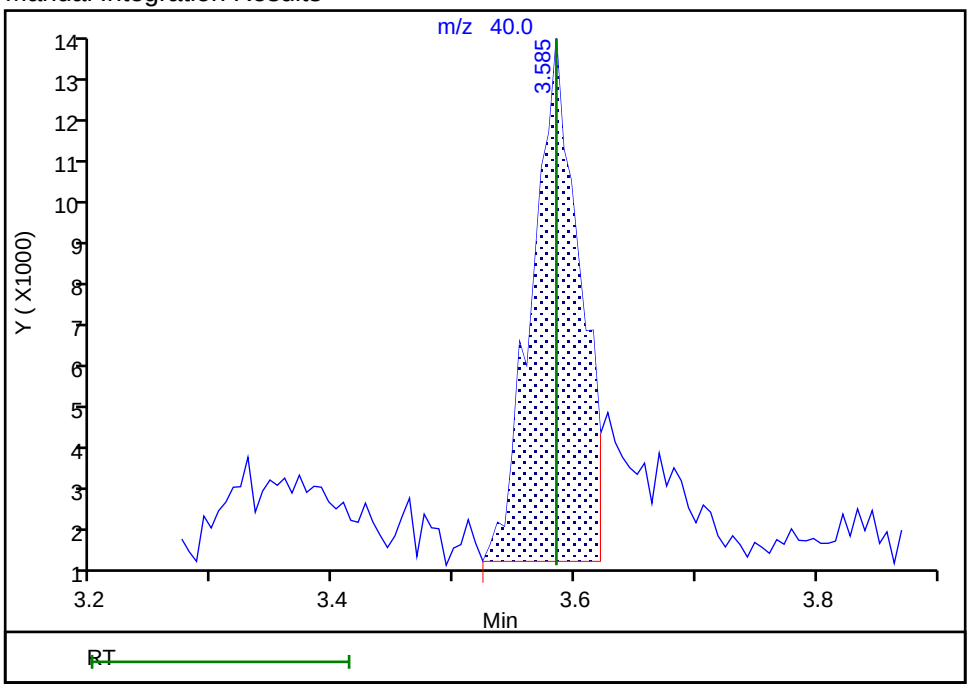
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 30958
Amount: 225.6367
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:16:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

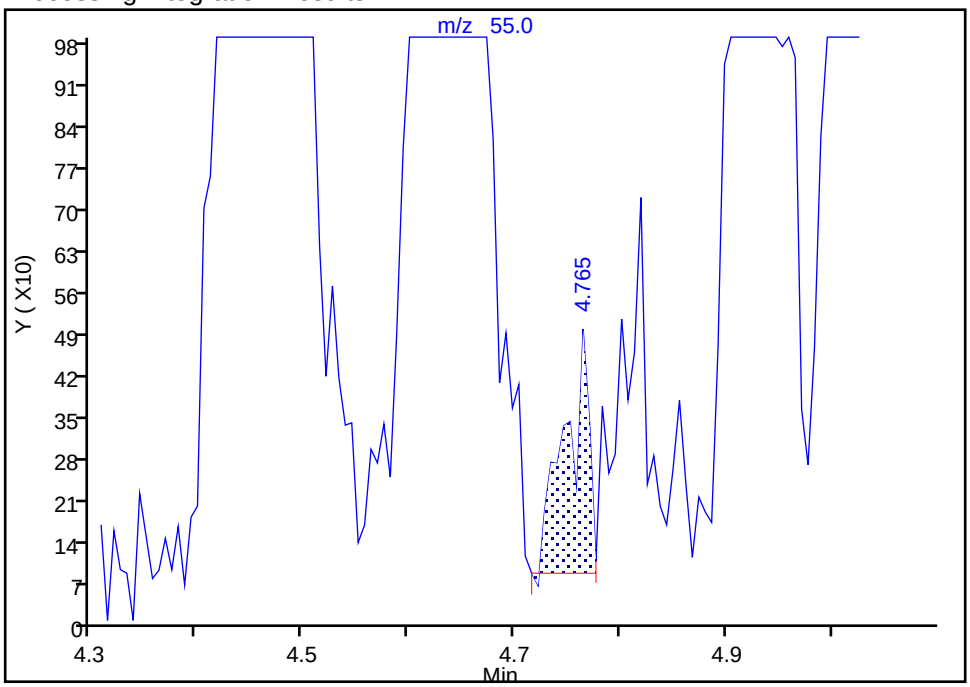
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672375.D
Injection Date: 05-Jun-2018 10:10:30 Instrument ID: CVOAMS11
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

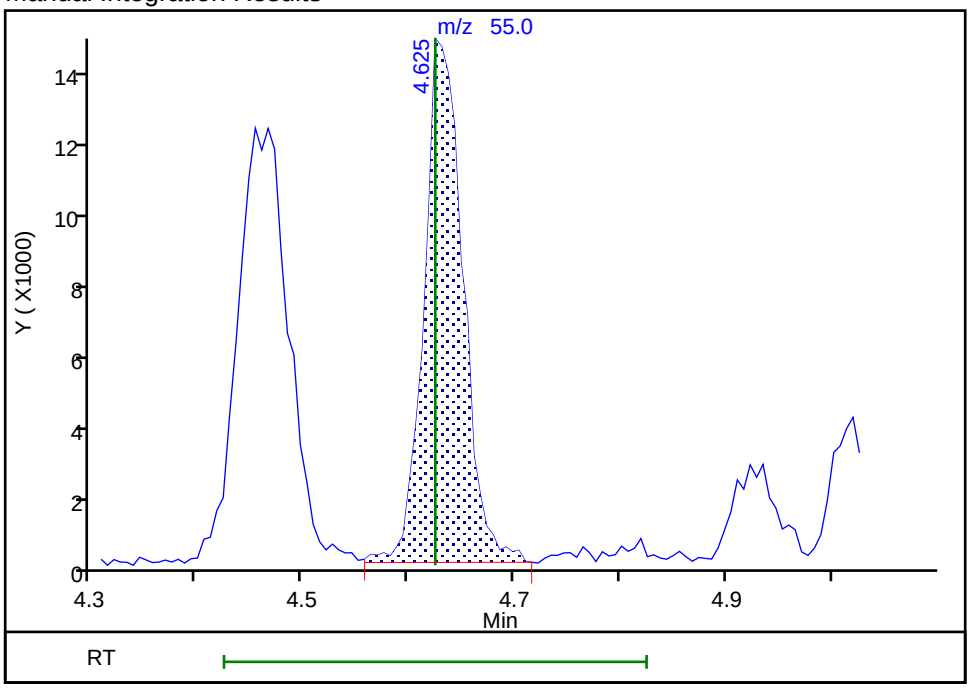
Processing Integration Results

RT: 4.76
Area: 653
Amount: 184.5623
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 35911
Amount: 18.877609
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:16:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672376.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jun-2018 10:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0073222-007
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:48:44 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: tupayachia Date: 05-Jun-2018 11:12:10

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
	1 Chlorotrifluoroethene	116	1.547	1.547	0.000	87	136815	50.0	53.7	
	2 Dichlorodifluoromethane	87	1.565	1.571	-0.006	98	85836	50.0	52.9	
	3 Chloromethane	52	1.741	1.741	0.000	100	67825	50.0	52.9	
	5 Butadiene	54	1.802	1.796	0.006	96	182343	50.0	55.0	
	4 Vinyl chloride	62	1.820	1.814	0.006	98	206803	50.0	52.3	
	6 Bromomethane	94	2.076	2.076	0.000	97	124551	50.0	52.4	
	7 Chloroethane	64	2.161	2.161	0.000	99	103949	50.0	53.4	
	10 Pentane	72	2.240	2.246	-0.006	97	59260	100.0	106.2	
	9 Trichlorofluoromethane	101	2.295	2.289	0.006	96	275797	50.0	52.5	
	8 Dichlorofluoromethane	67	2.331	2.325	0.006	99	322894	50.0	53.5	
	13 2-Methyl-1,3-butadiene	53	2.490	2.490	0.000	96	122194	50.0	49.2	
	12 Ethyl ether	59	2.496	2.490	0.006	72	113446	50.0	51.7	
	11 Ethanol	46	2.623	2.623	0.000	96	26631	2000.0	2021.2	
	17 1,1-Dichloroethene	96	2.672	2.666	0.006	96	147259	50.0	52.1	
	14 1,2-Dichloro-1,1,2-trifluo	117	2.672	2.684	-0.012	86	165672	50.0	49.6	
	20 Carbon disulfide	76	2.709	2.709	0.000	99	521683	50.0	52.5	
	15 1,1,2-Trichloro-1,2,2-trif	101	2.727	2.721	0.006	95	178217	50.0	51.9	a
	19 Iodomethane	142	2.800	2.800	0.000	98	275441	50.0	50.4	
	23 Cyclopentene	67	2.909	2.909	0.000	96	359432	50.0	51.2	
	16 Acrolein	56	2.946	2.940	0.006	92	31178	100.0	88.7	
	22 3-Chloro-1-propene	76	3.055	3.055	0.000	94	87920	50.0	51.9	
	21 Isopropyl alcohol	45	3.061	3.068	-0.007	24	62619	500.0	481.8	
	26 Methylene Chloride	84	3.147	3.147	0.000	89	166512	50.0	49.0	
	18 Acetone	58	3.183	3.189	-0.006	89	49554	250.0	238.4	
	30 trans-1,2-Dichloroethene	96	3.274	3.274	0.000	92	158249	50.0	48.6	
	24 Methyl acetate	74	3.274	3.274	0.000	57	39044	100.0	102.0	
	32 Hexane	56	3.323	3.323	0.000	90	122289	50.0	49.6	
	29 Methyl tert-butyl ether	73	3.366	3.366	0.000	98	436855	50.0	51.6	
*	27 TBA-d9 (IS)	65	3.378	3.366	0.012	97	207604	1000.0	1000.0	
	28 2-Methyl-2-propanol	59	3.439	3.433	0.006	96	119268	500.0	472.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.585	3.585	0.000	99	79816	500.0	558.8	a
33 Isopropyl ether	45	3.670	3.664	0.006	95	458196	50.0	50.0	
36 2-Chloro-1,3-butadiene	88	3.779	3.773	0.006	88	128311	50.0	49.7	
34 1,1-Dichloroethane	63	3.797	3.798	-0.001	100	252116	50.0	50.4	
31 Acrylonitrile	53	3.846	3.846	0.000	95	434486	500.0	513.4	
37 Tert-butyl ethyl ether	59	3.992	3.986	0.006	92	451936	50.0	51.4	
35 Vinyl acetate	86	4.004	3.998	0.006	99	61860	100.0	106.0	
40 cis-1,2-Dichloroethene	96	4.278	4.272	0.006	98	173946	50.0	50.7	
38 2,2-Dichloropropane	79	4.394	4.388	0.006	96	72812	50.0	51.8	
49 Cyclohexane	84	4.467	4.461	0.006	87	292581	50.0	48.6	
46 Chlorobromomethane	128	4.461	4.461	0.000	87	83121	50.0	48.2	
48 Chloroform	83	4.521	4.521	0.000	99	250620	50.0	50.0	
42 Ethyl acetate	70	4.619	4.619	0.000	100	27376	100.0	96.5	
43 Methyl acrylate	55	4.631	4.625	0.006	98	92121	50.0	47.3	a
52 Carbon tetrachloride	117	4.661	4.655	0.006	98	189265	50.0	50.2	
45 Tetrahydrofuran	72	4.667	4.667	0.000	82	32842	100.0	94.0	
$ 51 Dibromofluoromethane (Surr	113	4.692	4.692	0.000	98	132152	50.0	50.7	
50 1,1,1-Trichloroethane	97	4.728	4.722	0.006	95	237441	50.0	50.0	
* 39 2-Butanone-d5	46	4.765	4.759	0.006	0	205074	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	99	74726	250.0	262.9	
53 1,1-Dichloropropene	75	4.832	4.832	0.000	98	195143	50.0	49.3	
54 Isooctane	57	4.929	4.929	0.000	99	402180	50.0	52.8	
61 n-Heptane	57	5.020	5.020	0.000	89	102361	50.0	51.2	
55 Benzene	78	5.075	5.075	0.000	93	611754	50.0	49.8	
44 Propionitrile	54	5.112	5.118	-0.006	97	156900	500.0	501.0	
47 Methacrylonitrile	67	5.130	5.130	0.000	90	495921	500.0	518.9	
57 Tert-amyl methyl ether	73	5.185	5.179	0.007	98	438630	50.0	51.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.215	5.215	0.000	96	132646	50.0	51.0	
58 Isobutyl alcohol	43	5.282	5.282	0.000	66	113615	1250.0	1276.5	
60 1,2-Dichloroethane	62	5.288	5.288	0.000	97	166257	50.0	48.1	
* 62 Fluorobenzene	96	5.495	5.495	0.000	99	541852	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	98	197743	50.0	48.7	
65 Methylcyclohexane	83	5.659	5.659	0.000	94	295239	50.0	52.2	
64 Trichloroethene	95	5.671	5.671	0.000	95	145428	50.0	49.0	
63 n-Butanol	56	6.024	6.030	-0.006	86	67233	1250.0	1247.1	
71 Dibromomethane	93	6.134	6.134	0.000	93	78938	50.0	50.3	
67 1,2-Dichloropropane	63	6.249	6.243	0.006	90	139776	50.0	51.1	
66 Ethyl acrylate	55	6.261	6.261	0.000	98	130096	50.0	49.1	
73 Dichlorobromomethane	83	6.316	6.316	0.000	98	162439	50.0	49.7	
69 Methyl methacrylate	100	6.499	6.493	0.006	86	70471	100.0	95.4	
* 68 1,4-Dioxane-d8	96	6.505	6.505	0.000	91	28631	1000.0	1000.0	
70 1,4-Dioxane	88	6.541	6.535	0.006	90	30909	1000.0	861.3	
72 n-Propyl acetate	43	6.663	6.663	0.000	98	140159	50.0	50.2	
75 2-Chloroethyl vinyl ether	63	6.991	6.991	0.000	96	74008	50.0	52.2	
77 cis-1,3-Dichloropropene	75	7.058	7.058	0.000	91	203952	50.0	50.2	
$ 79 Toluene-d8 (Surr)	98	7.283	7.283	0.000	99	549129	50.0	49.6	
80 Toluene	91	7.344	7.344	0.000	94	656880	50.0	48.6	
76 Epichlorohydrin	57	7.375	7.375	0.000	99	206433	1000.0	942.6	
74 2-Nitropropane	41	7.661	7.661	0.000	96	34090	100.0	94.9	
84 Tetrachloroethene	166	7.825	7.831	-0.006	97	168646	50.0	48.7	
78 4-Methyl-2-pentanone (MIBK	43	7.849	7.849	0.000	96	529795	250.0	254.7	
81 trans-1,3-Dichloropropene	75	7.892	7.886	0.006	93	182117	50.0	50.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.099	8.105	-0.006	93	97919	50.0	49.9	
82 Ethyl methacrylate	69	8.117	8.117	0.000	88	158321	50.0	51.3	
88 Chlorodibromomethane	129	8.330	8.330	0.000	98	114446	50.0	49.3	
85 1,3-Dichloropropane	76	8.470	8.464	0.006	92	211436	50.0	49.2	
89 Ethylene Dibromide	107	8.640	8.640	0.000	100	116906	50.0	50.6	
87 n-Butyl acetate	43	8.853	8.859	-0.006	98	163491	50.0	50.0	
86 2-Hexanone	58	8.962	8.962	0.000	94	201360	250.0	260.5	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	85	431200	50.0	50.0	
91 Chlorobenzene	112	9.285	9.285	0.000	98	448889	50.0	50.9	
92 Ethylbenzene	106	9.334	9.328	0.006	96	248592	50.0	51.0	
93 1,1,1,2-Tetrachloroethane	131	9.370	9.370	0.000	94	146197	50.0	50.0	
94 m-Xylene & p-Xylene	106	9.498	9.492	0.006	0	302743	50.0	51.8	
96 o-Xylene	106	9.954	9.954	0.000	95	297696	50.0	51.9	
97 Styrene	104	10.015	10.015	0.000	98	471042	50.0	53.2	
99 Bromoform	173	10.027	10.027	0.000	98	65574	50.0	47.4	
95 n-Butyl acrylate	73	10.173	10.167	0.006	97	89559	50.0	51.0	
100 Isopropylbenzene	105	10.276	10.277	-0.001	95	785449	50.0	52.0	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	94	210957	50.0	49.7	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	95	179182	50.0	51.0	
102 Bromobenzene	156	10.635	10.635	0.000	94	196632	50.0	50.7	
104 N-Propylbenzene	91	10.672	10.672	0.000	100	874621	50.0	52.4	
103 1,1,2,2-Tetrachloroethane	83	10.751	10.751	0.000	96	145268	50.0	48.8	
108 4-Ethyltoluene	105	10.775	10.775	0.000	98	754963	50.0	52.0	
107 2-Chlorotoluene	91	10.806	10.806	0.000	96	595617	50.0	51.1	
109 1,3,5-Trimethylbenzene	105	10.861	10.861	0.000	95	659658	50.0	52.5	
105 1,2,3-Trichloropropane	110	10.867	10.867	0.000	95	50912	50.0	49.2	
106 trans-1,4-Dichloro-2-buten	53	10.909	10.909	0.000	82	34144	50.0	45.0	
110 4-Chlorotoluene	91	10.964	10.958	0.006	97	529656	50.0	51.4	
111 Butyl Methacrylate	87	11.140	11.140	0.000	88	197100	50.0	53.4	
112 tert-Butylbenzene	119	11.140	11.140	0.000	95	555864	50.0	51.9	
113 1,2,4-Trimethylbenzene	105	11.201	11.201	0.000	96	690983	50.0	52.3	
114 sec-Butylbenzene	105	11.292	11.293	0.000	99	821893	50.0	52.7	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	98	743498	50.0	52.9	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	387506	50.0	49.5	
* 117 1,4-Dichlorobenzene-d4	152	11.542	11.536	0.006	92	251813	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	95	393709	50.0	50.2	
134 1,2,3-Trimethylbenzene	105	11.572	11.572	0.000	98	723884	50.0	51.0	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	94	735755	50.0	51.7	
121 p-Diethylbenzene	119	11.724	11.724	0.000	97	399438	50.0	52.8	
119 Benzyl chloride	126	11.767	11.767	0.000	97	59069	50.0	49.1	
122 n-Butylbenzene	92	11.773	11.773	0.000	98	355063	50.0	52.9	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	97	385077	50.0	49.9	
124 1,2,4,5-Tetramethylbenzene	119	12.369	12.369	0.000	98	707917	50.0	53.0	
125 1,2-Dibromo-3-Chloropropan	155	12.546	12.546	0.000	93	24493	50.0	46.1	
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	98	296674	50.0	48.6	
128 Hexachlorobutadiene	225	13.026	13.026	0.000	95	94637	50.0	48.7	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	94	292313	50.0	51.4	
129 Naphthalene	128	13.312	13.312	0.000	99	637297	50.0	51.8	
130 1,2,3-Trichlorobenzene	180	13.464	13.464	0.000	95	267269	50.0	50.5	
S 131 1,2-Dichloroethene, Total	100				0		100.0	99.3	
S 132 Xylenes, Total	100				0		100.0	103.7	
S 133 Total BTEX	1				0		250.0	253.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	10.00	Units: uL	
GAS Hi_00257	Amount Added:	5.00	Units: uL	
Ethanol mix_00016	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	5.00	Units: uL	
MIX I Hi_00094	Amount Added:	5.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Jun-2018 14:48:49 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672376.D

Injection Date: 05-Jun-2018 10:33:30 Instrument ID: CVOAMS11 Operator ID:

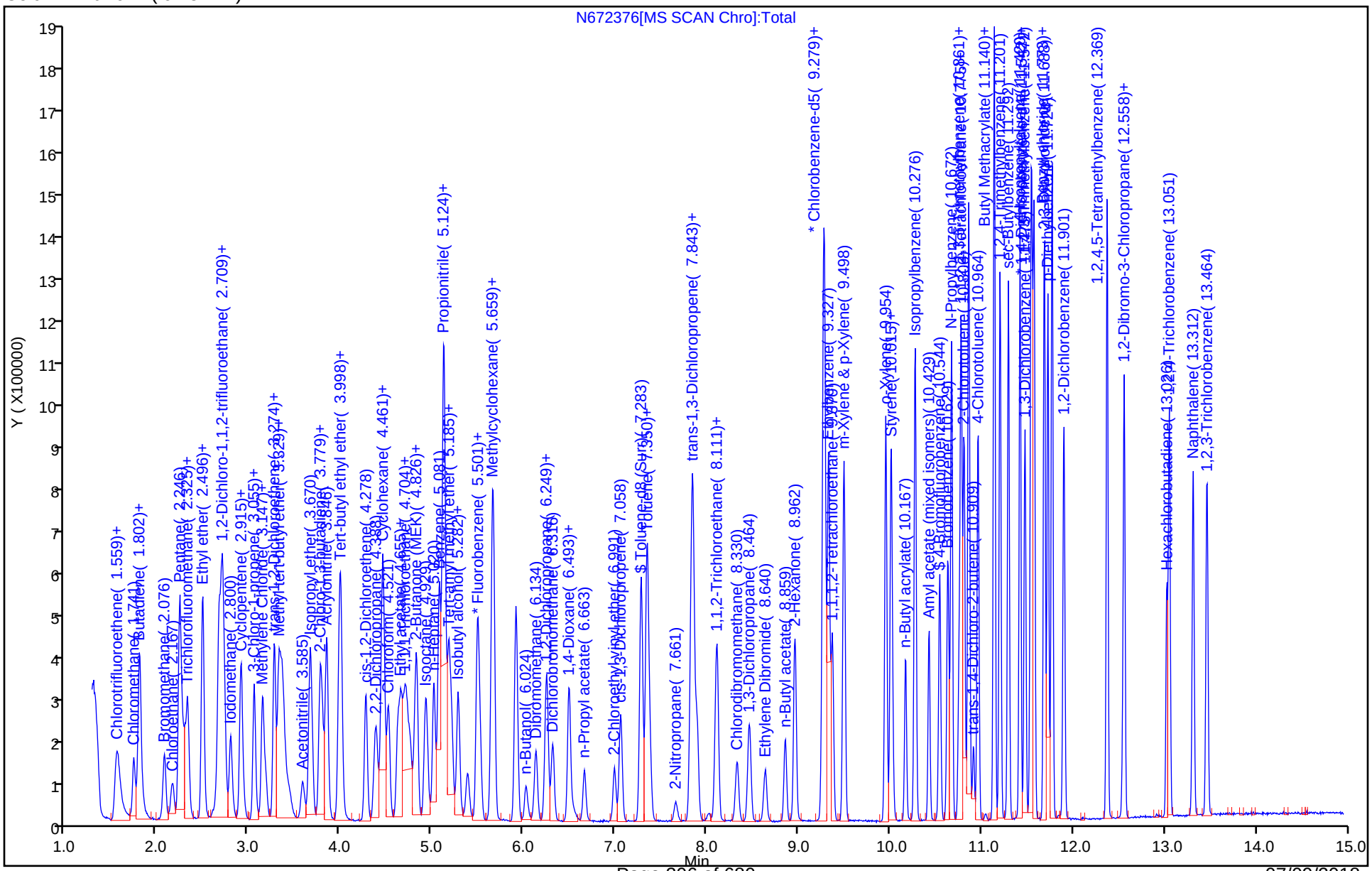
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

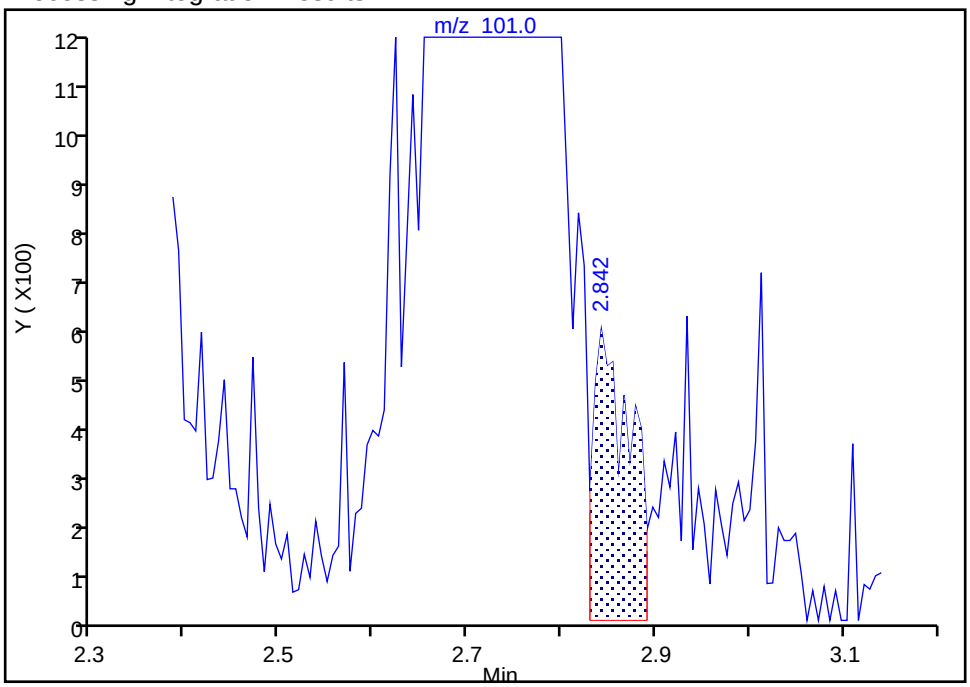
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672376.D
Injection Date: 05-Jun-2018 10:33:30 Instrument ID: CVOAMS11
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

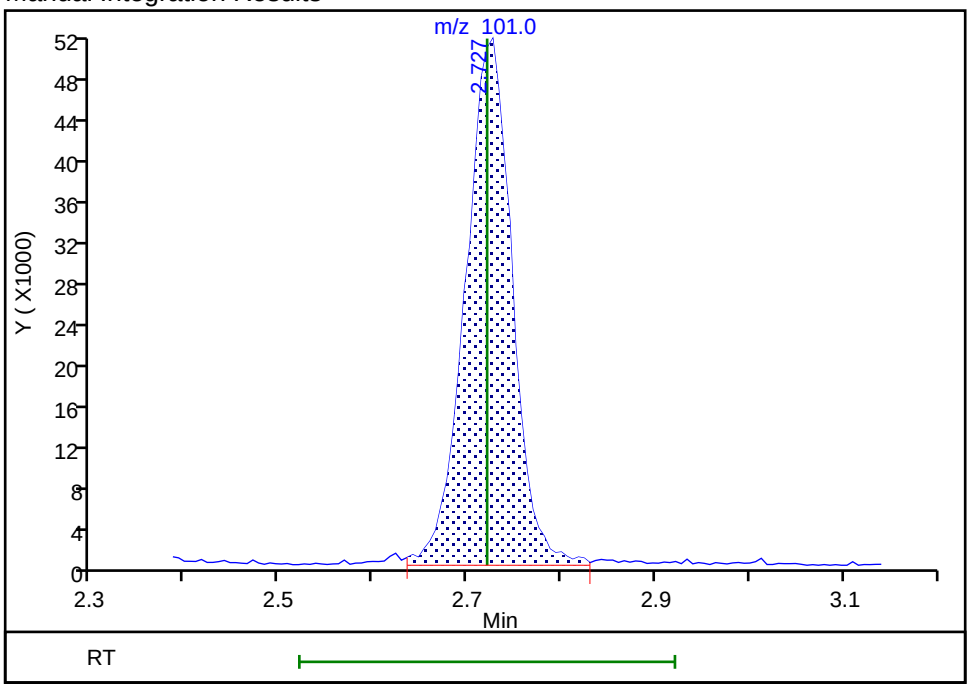
Processing Integration Results

RT: 2.84
Area: 1561
Amount: 0.548794
Amount Units: ug/l



Manual Integration Results

RT: 2.73
Area: 178217
Amount: 51.908827
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:27:51
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

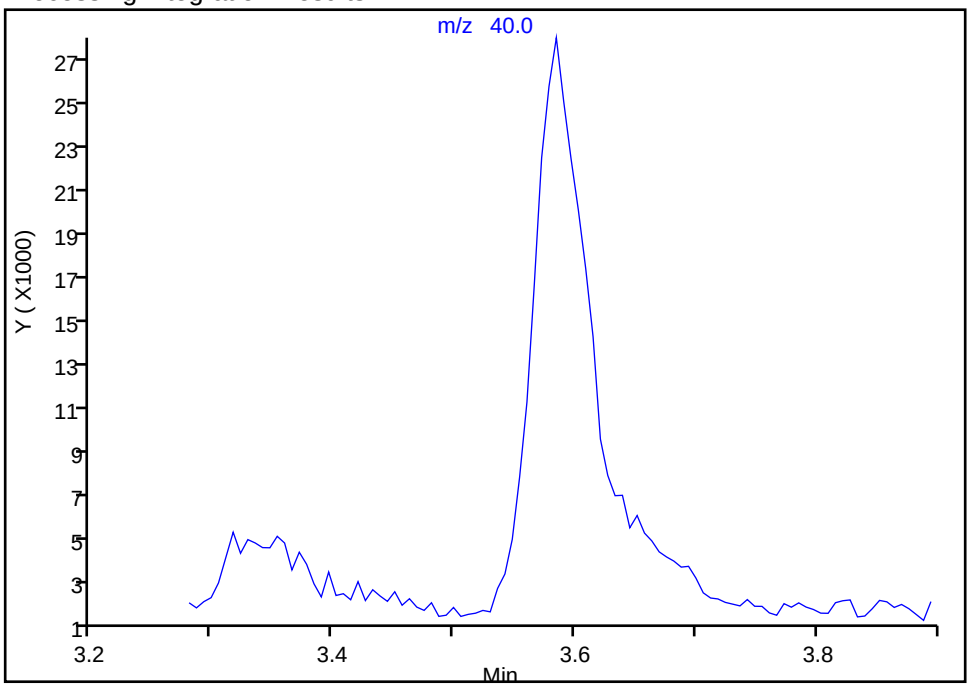
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672376.D
Injection Date: 05-Jun-2018 10:33:30 Instrument ID: CVOAMS11
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

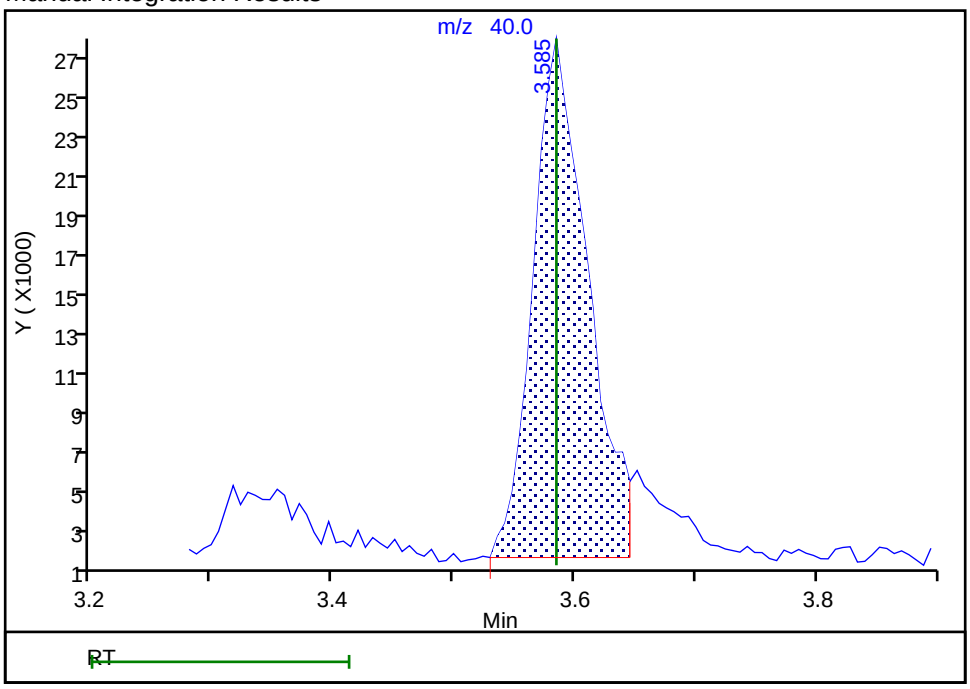
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 79816
Amount: 558.8492
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:27:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

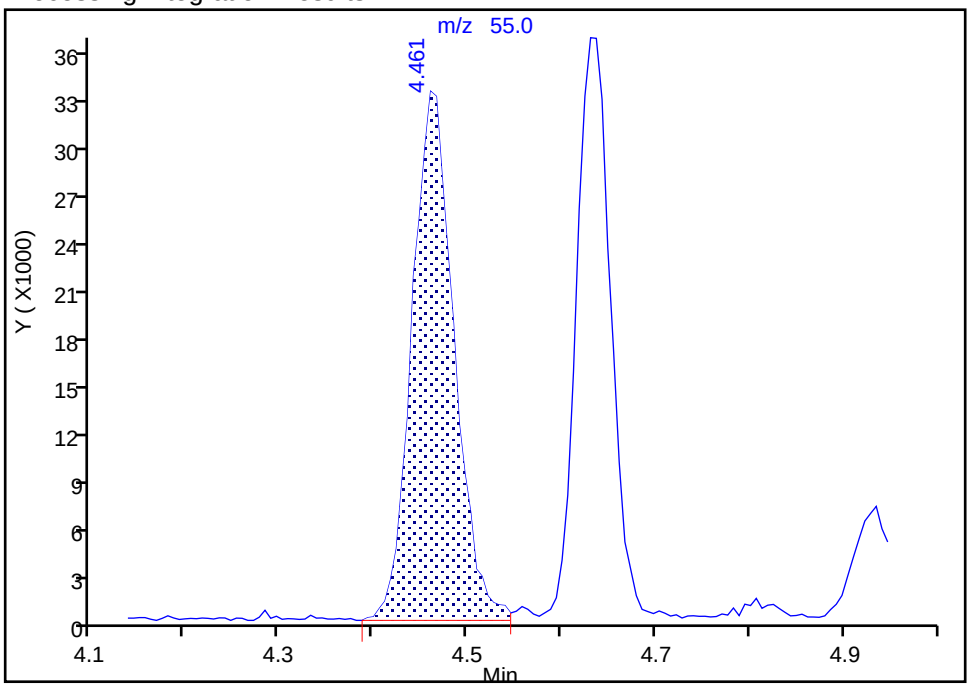
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672376.D
Injection Date: 05-Jun-2018 10:33:30 Instrument ID: CVOAMS11
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

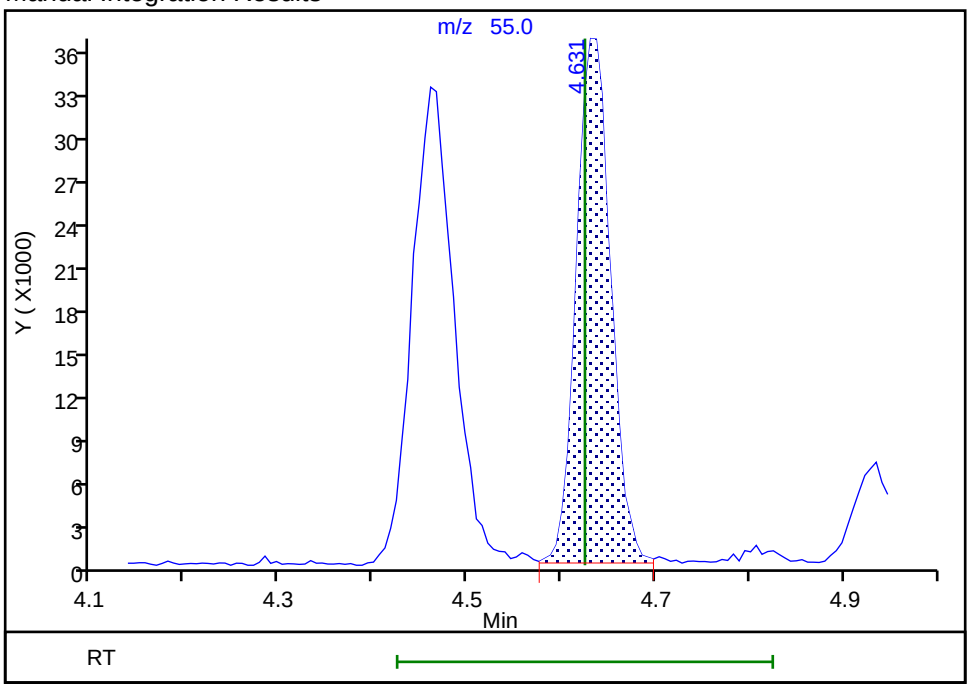
Processing Integration Results

RT: 4.46
Area: 102882
Amount: 51.053894
Amount Units: ug/l



Manual Integration Results

RT: 4.63
Area: 92121
Amount: 47.337676
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:28:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672377.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jun-2018 10:55:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0073222-008
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:49:06 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 05-Jun-2018 13:29:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.553	1.547	0.006	86	572371	200.0	216.2	
2 Dichlorodifluoromethane	87	1.565	1.571	-0.006	99	351455	200.0	208.3	
3 Chloromethane	52	1.741	1.741	0.000	99	270243	200.0	218.1	
5 Butadiene	54	1.802	1.796	0.006	96	726018	200.0	210.8	
4 Vinyl chloride	62	1.820	1.814	0.006	98	813992	200.0	198.0	
6 Bromomethane	94	2.076	2.076	0.000	98	460095	200.0	186.0	
7 Chloroethane	64	2.161	2.161	0.000	99	396491	200.0	195.8	
10 Pentane	72	2.246	2.246	0.000	96	241031	400.0	443.6	
9 Trichlorofluoromethane	101	2.295	2.289	0.006	97	1081810	200.0	198.1	
8 Dichlorofluoromethane	67	2.331	2.325	0.006	98	1226931	200.0	195.5	
12 Ethyl ether	59	2.490	2.490	0.000	68	431100	200.0	188.9	
13 2-Methyl-1,3-butadiene	53	2.496	2.490	0.006	96	512951	200.0	198.8	
11 Ethanol	46	2.654	2.623	0.031	100	108175	8000.0	8432.4	a
17 1,1-Dichloroethene	96	2.672	2.666	0.006	96	605754	200.0	206.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.678	2.684	-0.006	88	666240	200.0	191.8	
20 Carbon disulfide	76	2.709	2.709	0.000	100	2166113	200.0	209.8	
15 1,1,2-Trichloro-1,2,2-trif	101	2.727	2.721	0.006	96	732530	200.0	205.2	
19 Iodomethane	142	2.800	2.800	0.000	98	1145248	200.0	201.4	
23 Cyclopentene	67	2.909	2.909	0.000	96	1533569	200.0	210.1	
16 Acrolein	56	2.946	2.940	0.006	93	71635	200.0	209.2	
22 3-Chloro-1-propene	76	3.055	3.055	0.000	94	359397	200.0	204.2	
21 Isopropyl alcohol	45	3.062	3.068	-0.006	24	246674	2000.0	1949.2	
26 Methylene Chloride	84	3.147	3.147	0.000	89	655008	200.0	185.3	
18 Acetone	58	3.183	3.189	-0.006	88	185656	1000.0	923.5	
24 Methyl acetate	74	3.274	3.274	0.000	56	146168	400.0	392.3	
30 trans-1,2-Dichloroethene	96	3.274	3.274	0.000	92	637251	200.0	188.3	
32 Hexane	56	3.323	3.323	0.000	84	510894	200.0	199.5	
* 27 TBA-d9 (IS)	65	3.378	3.366	0.012	79	202130	1000.0	1000.0	
29 Methyl tert-butyl ether	73	3.366	3.366	0.000	94	1773505	200.0	201.5	
28 2-Methyl-2-propanol	59	3.439	3.433	0.006	96	462997	2000.0	1882.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.585	3.585	0.000	99	300782	2000.0	2163.0	a
33 Isopropyl ether	45	3.676	3.664	0.012	95	1907374	200.0	200.3	
36 2-Chloro-1,3-butadiene	88	3.773	3.773	0.000	88	549774	200.0	204.6	
34 1,1-Dichloroethane	63	3.798	3.798	0.000	100	1020594	200.0	196.2	
31 Acrylonitrile	53	3.846	3.846	0.000	95	1610153	2000.0	1954.2	
37 Tert-butyl ethyl ether	59	3.992	3.986	0.006	91	1867056	200.0	204.2	
35 Vinyl acetate	86	4.004	3.998	0.006	99	227936	400.0	403.9	
40 cis-1,2-Dichloroethene	96	4.278	4.272	0.006	98	692885	200.0	194.4	
38 2,2-Dichloropropane	79	4.388	4.388	0.000	97	306301	200.0	209.4	
46 Chlorobromomethane	128	4.461	4.461	0.000	87	328041	200.0	183.0	
49 Cyclohexane	84	4.467	4.461	0.006	87	1213483	200.0	193.9	
48 Chloroform	83	4.522	4.521	0.001	99	1047548	200.0	200.8	
42 Ethyl acetate	70	4.625	4.619	0.006	100	104668	400.0	381.7	
43 Methyl acrylate	55	4.631	4.625	0.006	98	379495	200.0	187.6	a
52 Carbon tetrachloride	117	4.655	4.655	0.000	98	867466	200.0	221.2	
45 Tetrahydrofuran	72	4.661	4.667	-0.006	93	122553	400.0	362.8	
$ 51 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	98	138541	50.0	51.1	
50 1,1,1-Trichloroethane	97	4.722	4.722	0.000	95	1047752	200.0	212.4	
* 39 2-Butanone-d5	46	4.765	4.759	0.006	0	198326	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	99	289975	1000.0	1054.7	
53 1,1-Dichloropropene	75	4.832	4.832	0.000	97	822077	200.0	199.9	
54 Isooctane	57	4.935	4.929	0.006	99	1815148	200.0	229.3	
61 n-Heptane	57	5.020	5.020	0.000	90	464663	200.0	223.6	
55 Benzene	78	5.075	5.075	0.000	93	2492237	200.0	199.0	
44 Propionitrile	54	5.112	5.118	-0.006	99	599175	2000.0	1964.9	
47 Methacrylonitrile	67	5.130	5.130	0.000	90	1877034	2000.0	1889.0	
57 Tert-amyl methyl ether	73	5.185	5.179	0.007	98	1848557	200.0	207.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.215	5.215	0.000	93	135547	50.0	50.1	
58 Isobutyl alcohol	43	5.282	5.282	0.000	96	467484	5000.0	5394.5	
60 1,2-Dichloroethane	62	5.288	5.288	0.000	98	660364	200.0	183.9	
* 62 Fluorobenzene	96	5.495	5.495	0.000	99	563353	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	99	821126	200.0	194.4	
65 Methylcyclohexane	83	5.659	5.659	0.000	93	1258703	200.0	214.0	
64 Trichloroethene	95	5.671	5.671	0.000	95	597736	200.0	193.7	
63 n-Butanol	56	6.024	6.030	-0.006	86	286201	5000.0	5452.4	
71 Dibromomethane	93	6.134	6.134	0.000	93	321063	200.0	196.8	
67 1,2-Dichloropropane	63	6.243	6.243	0.000	90	570715	200.0	200.6	
66 Ethyl acrylate	55	6.261	6.261	0.000	98	529014	200.0	191.9	
73 Dichlorobromomethane	83	6.316	6.316	0.000	98	706400	200.0	208.0	
69 Methyl methacrylate	100	6.493	6.493	0.000	87	290241	400.0	377.9	
* 68 1,4-Dioxane-d8	96	6.505	6.505	0.000	91	24817	1000.0	1000.0	
70 1,4-Dioxane	88	6.541	6.535	0.006	94	113557	4000.0	3650.5	
72 n-Propyl acetate	43	6.663	6.663	0.000	97	568858	200.0	196.0	
75 2-Chloroethyl vinyl ether	63	6.991	6.991	0.000	96	310377	200.0	210.5	
77 cis-1,3-Dichloropropene	75	7.058	7.058	0.000	91	875759	200.0	211.2	
$ 79 Toluene-d8 (Surr)	98	7.284	7.283	0.001	99	567852	50.0	50.3	
80 Toluene	91	7.350	7.344	0.006	93	2684663	200.0	194.6	
76 Epichlorohydrin	57	7.381	7.375	0.006	99	818518	4000.0	3864.7	
74 2-Nitropropane	41	7.661	7.661	0.000	99	158033	400.0	452.1	
84 Tetrachloroethene	166	7.831	7.831	0.000	98	689595	200.0	195.4	
78 4-Methyl-2-pentanone (MIBK	43	7.849	7.849	0.000	95	2175401	1000.0	1081.3	
81 trans-1,3-Dichloropropene	75	7.892	7.886	0.006	94	778949	200.0	213.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.105	8.105	0.000	94	375855	200.0	187.9	
82 Ethyl methacrylate	69	8.117	8.117	0.000	88	671806	200.0	209.2	
88 Chlorodibromomethane	129	8.330	8.330	0.000	98	520254	200.0	219.8	
85 1,3-Dichloropropane	76	8.464	8.464	0.000	93	830612	200.0	189.6	
89 Ethylene Dibromide	107	8.634	8.640	-0.006	97	476159	200.0	202.2	
87 n-Butyl acetate	43	8.859	8.859	0.000	97	692768	200.0	207.9	
86 2-Hexanone	58	8.963	8.962	0.001	94	815137	1000.0	1090.4	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	84	439853	50.0	50.0	
91 Chlorobenzene	112	9.291	9.285	0.006	98	1790904	200.0	199.2	
92 Ethylbenzene	106	9.328	9.328	0.000	97	1005221	200.0	202.3	
93 1,1,1,2-Tetrachloroethane	131	9.370	9.370	0.000	94	649750	200.0	218.0	
94 m-Xylene & p-Xylene	106	9.498	9.492	0.006	0	1246357	200.0	209.0	
96 o-Xylene	106	9.954	9.954	0.000	95	1246500	200.0	213.2	
97 Styrene	104	10.015	10.015	0.000	97	1970889	200.0	218.3	
99 Bromoform	173	10.027	10.027	0.000	98	308712	200.0	218.7	
95 n-Butyl acrylate	73	10.167	10.167	0.000	99	419140	200.0	233.9	
100 Isopropylbenzene	105	10.277	10.277	0.000	95	3319780	200.0	215.5	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	93	957960	200.0	221.1	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	92	182461	50.0	50.9	
102 Bromobenzene	156	10.636	10.635	0.001	94	792894	200.0	200.3	
104 N-Propylbenzene	91	10.672	10.672	0.000	100	3583244	200.0	210.3	
103 1,1,2,2-Tetrachloroethane	83	10.751	10.751	0.000	97	559767	200.0	184.1	
108 4-Ethyltoluene	105	10.775	10.775	0.000	98	3163937	200.0	213.4	
107 2-Chlorotoluene	91	10.806	10.806	0.000	97	2460667	200.0	206.6	
109 1,3,5-Trimethylbenzene	105	10.861	10.861	0.000	94	2757001	200.0	215.0	
105 1,2,3-Trichloropropane	110	10.867	10.867	0.000	94	190960	200.0	180.7	
106 trans-1,4-Dichloro-2-buten	53	10.909	10.909	0.000	91	152501	200.0	196.8	
110 4-Chlorotoluene	91	10.964	10.958	0.006	97	2202513	200.0	209.3	
112 tert-Butylbenzene	119	11.140	11.140	0.000	91	2397381	200.0	219.2	
111 Butyl Methacrylate	87	11.140	11.140	0.000	62	898729	200.0	238.5	
113 1,2,4-Trimethylbenzene	105	11.201	11.201	0.000	97	2861339	200.0	212.0	
114 sec-Butylbenzene	105	11.293	11.293	0.001	99	3483254	200.0	218.6	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	98	3177754	200.0	221.4	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	1574110	200.0	197.0	
* 117 1,4-Dichlorobenzene-d4	152	11.542	11.536	0.006	90	257113	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	96	1585260	200.0	198.0	
134 1,2,3-Trimethylbenzene	105	11.572	11.572	0.000	98	3045576	200.0	210.0	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	94	3017992	200.0	207.9	
121 p-Diethylbenzene	119	11.725	11.724	0.001	97	1668310	200.0	215.9	
119 Benzyl chloride	126	11.767	11.767	0.000	97	278073	200.0	226.2	
122 n-Butylbenzene	92	11.773	11.773	0.000	97	1473722	200.0	215.0	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	97	1546900	200.0	196.4	
124 1,2,4,5-Tetramethylbenzene	119	12.369	12.369	0.000	97	3112115	200.0	228.2	
125 1,2-Dibromo-3-Chloropropan	155	12.540	12.546	-0.006	95	105915	200.0	195.1	
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	98	1251780	200.0	200.9	
128 Hexachlorobutadiene	225	13.026	13.026	0.000	94	394240	200.0	198.7	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	94	1192822	200.0	205.3	
129 Naphthalene	128	13.312	13.312	0.000	99	2655412	200.0	211.3	
130 1,2,3-Trichlorobenzene	180	13.464	13.464	0.000	96	1082499	200.0	200.5	
S 131 1,2-Dichloroethene, Total	100				0		400.0	382.6	
S 132 Xylenes, Total	100				0		400.0	422.2	
S 133 Total BTEX	1				0		1000.0	1018.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	20.00	Units: uL	
GAS Hi_00257	Amount Added:	20.00	Units: uL	
Ethanol mix_00016	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	20.00	Units: uL	
MIX I Hi_00094	Amount Added:	20.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Jun-2018 14:49:11 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672377.D

Injection Date: 05-Jun-2018 10:55:30 Instrument ID: CVOAMS11 Operator ID:

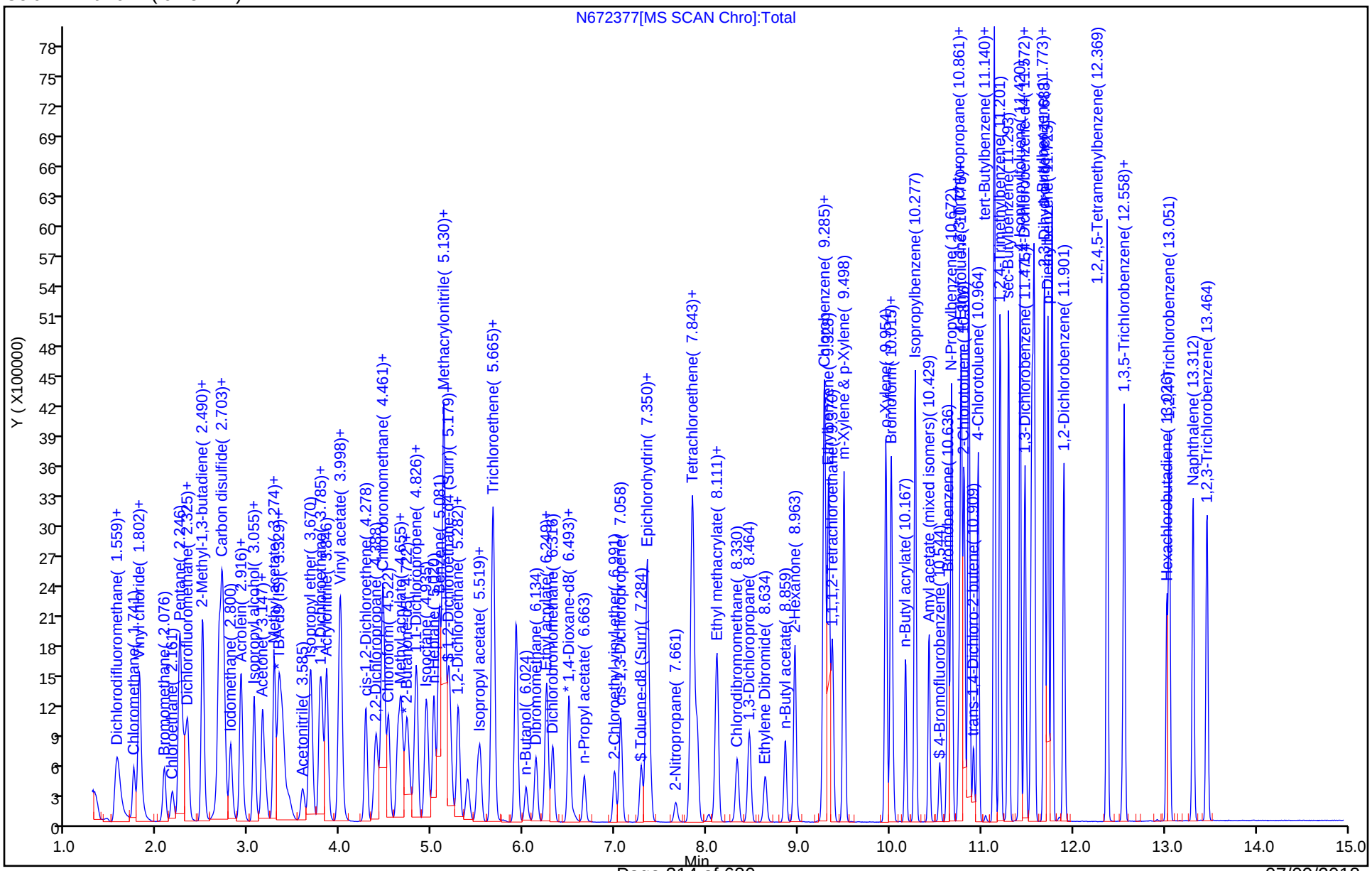
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

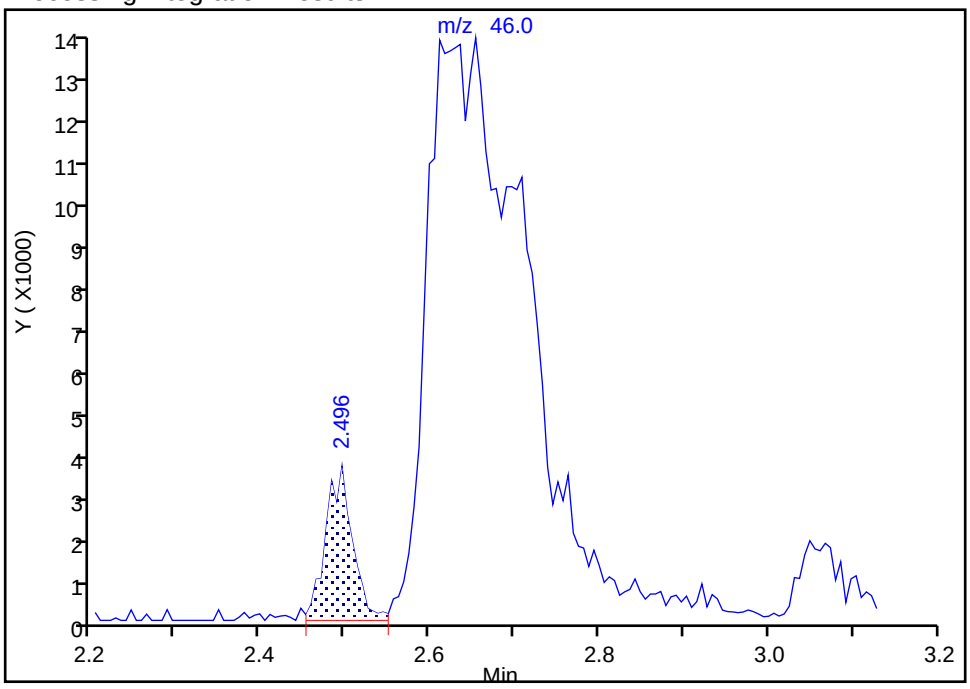
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672377.D
Injection Date: 05-Jun-2018 10:55:30 Instrument ID: CVOAMS11
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

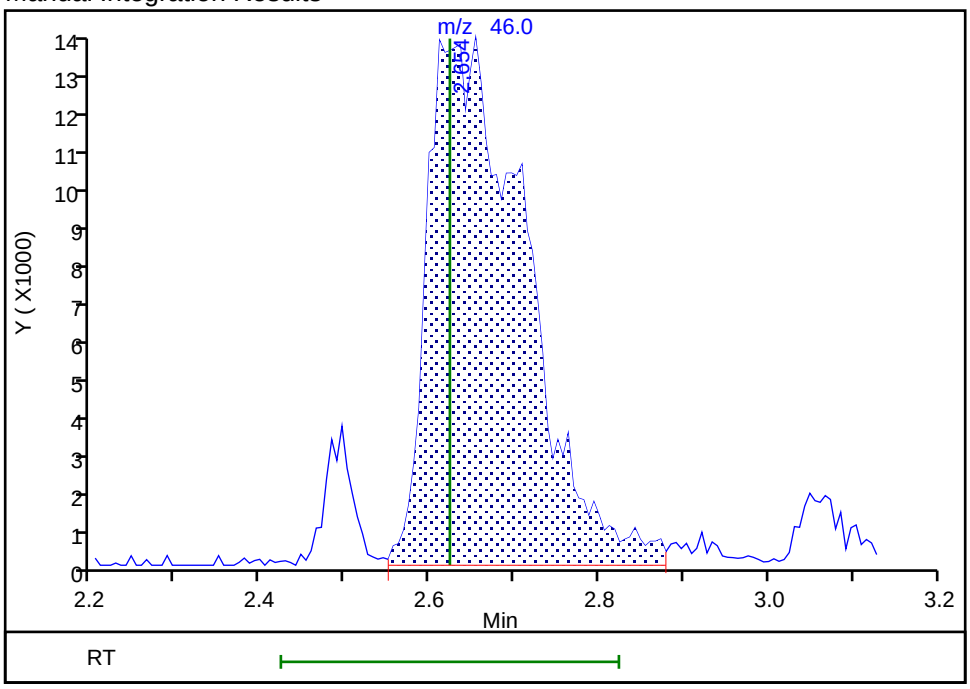
Processing Integration Results

RT: 2.50
Area: 7775
Amount: 867.3955
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 108175
Amount: 8432.3502
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:28:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

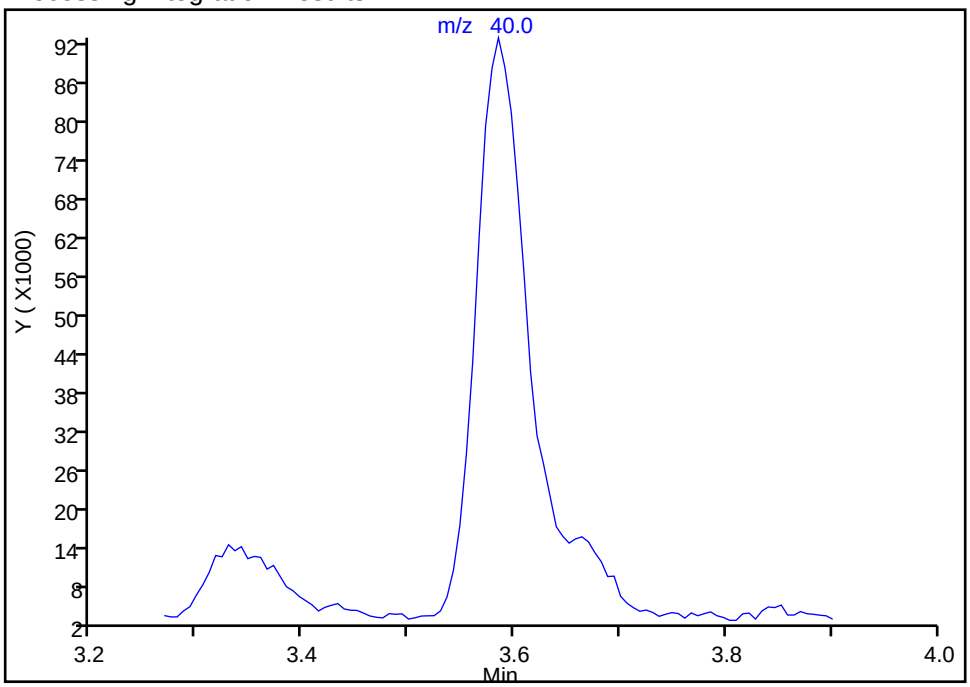
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672377.D
Injection Date: 05-Jun-2018 10:55:30 Instrument ID: CVOAMS11
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

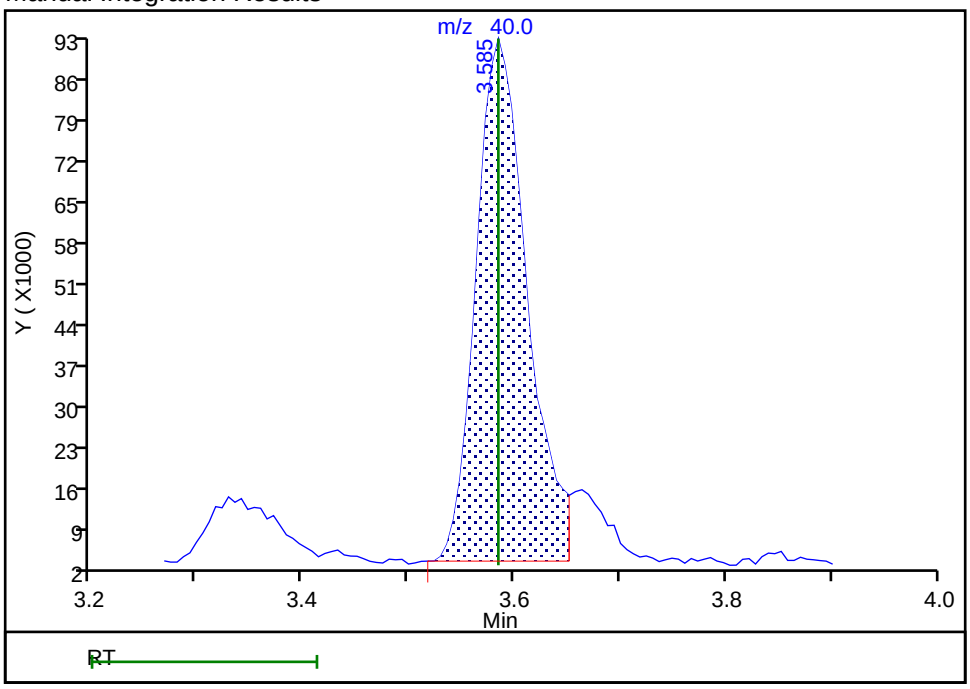
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 300782
Amount: 2163.0246
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:29:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

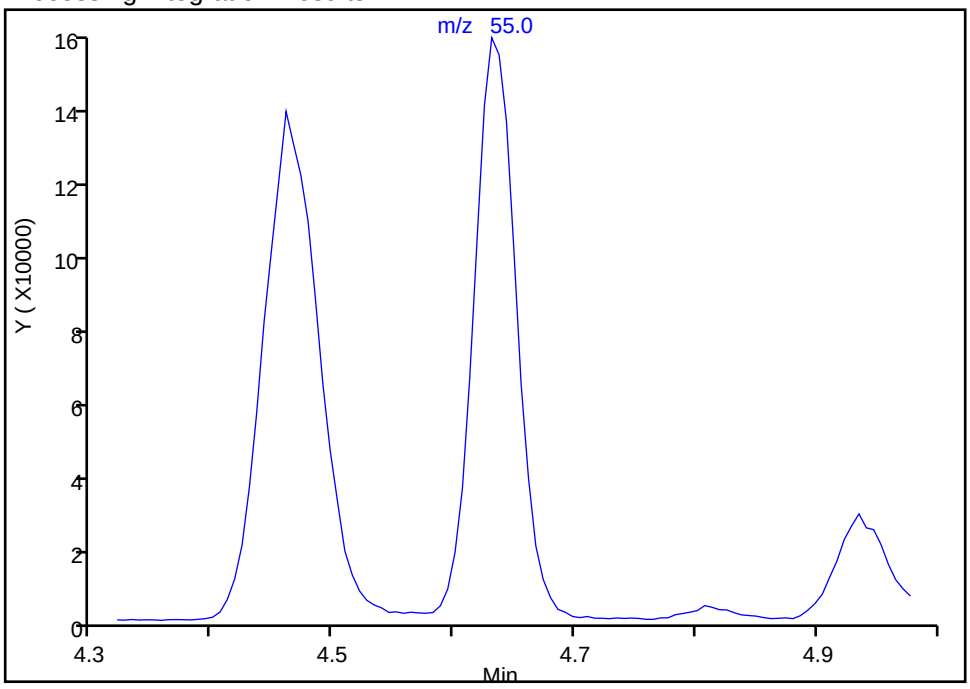
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672377.D
Injection Date: 05-Jun-2018 10:55:30 Instrument ID: CVOAMS11
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

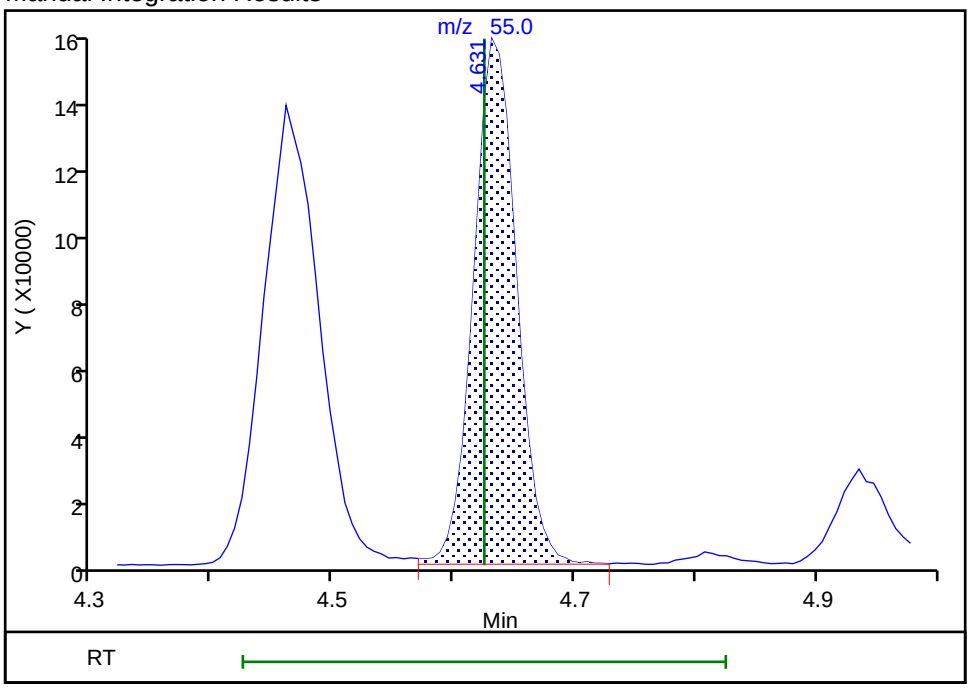
Not Detected
Expected RT: 4.62

Processing Integration Results



Manual Integration Results

RT: 4.63
Area: 379495
Amount: 187.5661
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:29:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jun-2018 11:19:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0073222-009
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:49:26 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 05-Jun-2018 13:31:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.553	1.547	0.006	87	1474539	500.0	527.2	
2 Dichlorodifluoromethane	87	1.565	1.571	-0.006	99	964049	500.0	540.9	
3 Chloromethane	52	1.741	1.741	0.000	99	678422	500.0	459.0	
5 Butadiene	54	1.802	1.796	0.006	97	2045420	500.0	562.1	
4 Vinyl chloride	62	1.814	1.814	0.000	98	2243638	500.0	516.5	
6 Bromomethane	94	2.076	2.076	0.000	99	1176152	500.0	450.1	
7 Chloroethane	64	2.161	2.161	0.000	100	955460	500.0	446.7	
10 Pentane	72	2.252	2.246	0.006	97	614292	1000.0	880.3	
9 Trichlorofluoromethane	101	2.295	2.289	0.006	97	3078157	500.0	533.6	
8 Dichlorofluoromethane	67	2.331	2.325	0.006	98	3395253	500.0	512.0	
13 2-Methyl-1,3-butadiene	53	2.490	2.490	0.000	97	1389902	500.0	509.8	
12 Ethyl ether	59	2.490	2.490	0.000	92	1136527	500.0	471.4	
11 Ethanol	46	2.623	2.623	0.000	97	319130	20000	19371	
17 1,1-Dichloroethene	96	2.678	2.666	0.012	97	1600064	500.0	514.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.684	2.684	0.000	90	1682359	500.0	458.5	
20 Carbon disulfide	76	2.709	2.709	0.000	99	5669680	500.0	519.6	
15 1,1,2-Trichloro-1,2,2-trif	101	2.721	2.721	0.000	95	1832171	500.0	485.8	
19 Iodomethane	142	2.800	2.800	0.000	98	3047736	500.0	507.2	
23 Cyclopentene	67	2.909	2.909	0.000	96	4074865	500.0	528.4	
16 Acrolein	56	2.940	2.940	0.000	93	154601	400.0	351.6	
22 3-Chloro-1-propene	76	3.055	3.055	0.000	93	930318	500.0	500.3	
21 Isopropyl alcohol	45	3.055	3.068	-0.013	95	795657	5000.0	4895.9	
26 Methylene Chloride	84	3.147	3.147	0.000	90	1683841	500.0	450.8	
18 Acetone	58	3.177	3.189	-0.012	87	526020	2500.0	2193.3	
30 trans-1,2-Dichloroethene	96	3.274	3.274	0.000	93	1602968	500.0	448.2	
24 Methyl acetate	74	3.274	3.274	0.000	75	412692	1000.0	862.4	
32 Hexane	56	3.323	3.323	0.000	91	1271826	500.0	470.0	
29 Methyl tert-butyl ether	73	3.360	3.366	-0.006	87	4691558	500.0	504.5	
* 27 TBA-d9 (IS)	65	3.366	3.366	0.000	71	259577	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.439	3.433	0.006	92	1438116	5000.0	4553.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.585	3.585	0.000	99	941239	5000.0	5270.8	a
33 Isopropyl ether	45	3.670	3.664	0.006	96	5051974	500.0	502.1	
36 2-Chloro-1,3-butadiene	88	3.773	3.773	0.000	89	1467073	500.0	516.8	
34 1,1-Dichloroethane	63	3.798	3.798	0.000	100	2621794	500.0	477.1	
31 Acrylonitrile	53	3.846	3.846	0.000	95	4381215	5000.0	4140.6	
37 Tert-butyl ethyl ether	59	3.986	3.986	0.000	90	4982484	500.0	515.8	
35 Vinyl acetate	86	4.004	3.998	0.006	99	615379	1000.0	914.0	
40 cis-1,2-Dichloroethene	96	4.278	4.272	0.006	98	1793561	500.0	476.2	
38 2,2-Dichloropropane	79	4.388	4.388	0.000	95	803341	500.0	519.9	
49 Cyclohexane	84	4.467	4.461	0.006	87	3101360	500.0	469.0	
46 Chlorobromomethane	128	4.461	4.461	0.000	87	844840	500.0	446.1	
48 Chloroform	83	4.522	4.521	0.001	99	2734987	500.0	496.3	
42 Ethyl acetate	70	4.619	4.619	0.000	100	301287	1000.0	921.0	
43 Methyl acrylate	55	4.631	4.625	0.006	100	1111497	500.0	519.9	a
52 Carbon tetrachloride	117	4.655	4.655	0.000	97	2381799	500.0	574.8	M
45 Tetrahydrofuran	72	4.668	4.667	0.001	92	348343	1000.0	864.4	
$ 51 Dibromofluoromethane (Surr	113	4.698	4.692	0.006	96	143674	50.0	50.2	
50 1,1,1-Trichloroethane	97	4.728	4.722	0.006	94	2833718	500.0	543.7	
* 39 2-Butanone-d5	46	4.765	4.759	0.006	0	236589	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	99	827279	2500.0	2522.4	
53 1,1-Dichloropropene	75	4.832	4.832	0.000	97	2170588	500.0	499.7	
54 Isooctane	57	4.941	4.929	0.012	99	4679695	500.0	559.4	
61 n-Heptane	57	5.020	5.020	0.000	91	1080777	500.0	492.2	
55 Benzene	78	5.081	5.075	0.006	93	6521931	500.0	494.0	
44 Propionitrile	54	5.118	5.118	0.000	98	1670811	5000.0	4266.7	
47 Methacrylonitrile	67	5.130	5.130	0.000	91	5209893	5000.0	4962.5	
57 Tert-amyl methyl ether	73	5.185	5.179	0.007	98	5024361	500.0	532.5	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.215	5.215	0.000	89	154485	50.0	54.0	
58 Isobutyl alcohol	43	5.282	5.282	0.000	96	1485620	12500	13349	
60 1,2-Dichloroethane	62	5.288	5.288	0.000	98	1814262	500.0	478.3	
* 62 Fluorobenzene	96	5.501	5.495	0.006	99	595218	50.0	50.0	
59 Isopropyl acetate	43	5.525	5.525	0.000	99	2423300	500.0	542.9	
65 Methylcyclohexane	83	5.659	5.659	0.000	94	3206347	500.0	516.0	
64 Trichloroethene	95	5.671	5.671	0.000	95	1561750	500.0	478.9	
63 n-Butanol	56	6.030	6.030	0.000	86	966504	12500	14338	
71 Dibromomethane	93	6.134	6.134	0.000	93	863339	500.0	500.9	
67 1,2-Dichloropropane	63	6.249	6.243	0.006	90	1494482	500.0	497.1	
66 Ethyl acrylate	55	6.261	6.261	0.000	98	1563915	500.0	537.0	
73 Dichlorobromomethane	83	6.316	6.316	0.000	99	1965907	500.0	547.9	
69 Methyl methacrylate	100	6.493	6.493	0.000	87	842595	1000.0	1038.3	
* 68 1,4-Dioxane-d8	96	6.517	6.505	0.012	92	30095	1000.0	1000.0	
70 1,4-Dioxane	88	6.541	6.535	0.006	91	343361	10000	9102.3	
72 n-Propyl acetate	43	6.663	6.663	0.000	98	1717081	500.0	559.8	
75 2-Chloroethyl vinyl ether	63	6.991	6.991	0.000	96	904641	500.0	580.6	
77 cis-1,3-Dichloropropene	75	7.058	7.058	0.000	91	2454418	500.0	561.5	
$ 79 Toluene-d8 (Surr)	98	7.283	7.283	0.000	99	613932	50.0	51.6	
80 Toluene	91	7.350	7.344	0.006	93	7092775	500.0	487.5	
76 Epichlorohydrin	57	7.381	7.375	0.006	99	2421740	10000	9585.1	
74 2-Nitropropane	41	7.661	7.661	0.000	97	544427	1000.0	1212.8	
84 Tetrachloroethene	166	7.831	7.831	0.000	98	1801765	500.0	484.2	
78 4-Methyl-2-pentanone (MIBK	43	7.849	7.849	0.000	96	6268748	2500.0	2612.0	
81 trans-1,3-Dichloropropene	75	7.892	7.886	0.006	94	2167141	500.0	563.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.105	8.105	0.000	95	1010018	500.0	478.9	
82 Ethyl methacrylate	69	8.117	8.117	0.000	88	1887556	500.0	556.3	
88 Chlorodibromomethane	129	8.330	8.330	0.000	98	1535229	500.0	615.3	
85 1,3-Dichloropropane	76	8.464	8.464	0.000	92	2279234	500.0	493.4	
89 Ethylene Dibromide	107	8.640	8.640	0.000	99	1302467	500.0	524.6	
87 n-Butyl acetate	43	8.859	8.859	0.000	99	2095314	500.0	596.3	
86 2-Hexanone	58	8.963	8.962	0.001	95	2369930	2500.0	2657.5	
* 90 Chlorobenzene-d5	117	9.267	9.267	0.000	86	463727	50.0	50.0	
91 Chlorobenzene	112	9.291	9.285	0.006	98	4656614	500.0	491.2	
92 Ethylbenzene	106	9.334	9.328	0.006	97	2617951	500.0	499.8	
93 1,1,1,2-Tetrachloroethane	131	9.370	9.370	0.000	94	1817611	500.0	578.4	
94 m-Xylene & p-Xylene	106	9.498	9.492	0.006	0	3272234	500.0	520.4	
96 o-Xylene	106	9.954	9.954	0.000	95	3314478	500.0	537.8	
97 Styrene	104	10.015	10.015	0.000	97	5188637	500.0	545.2	
99 Bromoform	173	10.033	10.027	0.006	98	941661	500.0	624.7	
95 n-Butyl acrylate	73	10.173	10.167	0.006	98	1200254	500.0	635.4	
100 Isopropylbenzene	105	10.277	10.277	0.000	95	8856718	500.0	545.4	
98 Amyl acetate (mixed isomer	43	10.429	10.429	0.000	92	2785010	500.0	602.0	
$ 101 4-Bromofluorobenzene	174	10.544	10.544	0.000	92	197870	50.0	52.3	
102 Bromobenzene	156	10.636	10.635	0.001	94	2096600	500.0	496.0	
104 N-Propylbenzene	91	10.672	10.672	0.000	100	9503362	500.0	522.2	
103 1,1,2,2-Tetrachloroethane	83	10.757	10.751	0.006	97	1582682	500.0	487.4	
108 4-Ethyltoluene	105	10.782	10.775	0.007	98	8555482	500.0	540.2	
107 2-Chlorotoluene	91	10.812	10.806	0.006	96	6677756	500.0	525.0	
109 1,3,5-Trimethylbenzene	105	10.861	10.861	0.000	94	7484493	500.0	546.5	
105 1,2,3-Trichloropropane	110	10.867	10.867	0.000	96	525770	500.0	465.8	
106 trans-1,4-Dichloro-2-buten	53	10.915	10.909	0.006	95	448031	500.0	541.4	
110 4-Chlorotoluene	91	10.964	10.958	0.006	97	5919169	500.0	526.6	
111 Butyl Methacrylate	87	11.140	11.140	0.000	82	2419961	500.0	601.2	
112 tert-Butylbenzene	119	11.140	11.140	0.000	90	6431411	500.0	550.6	
113 1,2,4-Trimethylbenzene	105	11.207	11.201	0.006	97	7821289	500.0	542.6	
114 sec-Butylbenzene	105	11.293	11.293	0.001	99	9462563	500.0	556.0	
115 4-Isopropyltoluene	119	11.420	11.420	0.000	98	8611826	500.0	561.8	
116 1,3-Dichlorobenzene	146	11.475	11.475	0.000	97	4165499	500.0	488.0	
* 117 1,4-Dichlorobenzene-d4	152	11.542	11.536	0.006	91	274602	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.554	11.554	0.000	95	4189797	500.0	489.9	
134 1,2,3-Trimethylbenzene	105	11.578	11.572	0.006	98	8492539	500.0	548.2	
120 2,3-Dihydroindene	117	11.688	11.688	0.000	94	8419386	500.0	543.0	
121 p-Diethylbenzene	119	11.724	11.724	0.000	97	4573481	500.0	554.3	
119 Benzyl chloride	126	11.767	11.767	0.000	96	823842	500.0	627.5	
122 n-Butylbenzene	92	11.773	11.773	0.000	94	3871160	500.0	528.9	
123 1,2-Dichlorobenzene	146	11.901	11.901	0.000	97	4138002	500.0	492.0	
124 1,2,4,5-Tetramethylbenzene	119	12.375	12.369	0.006	97	8883672	500.0	609.9	
125 1,2-Dibromo-3-Chloropropan	155	12.546	12.546	0.000	94	346968	500.0	598.3	
126 1,3,5-Trichlorobenzene	180	12.558	12.558	0.000	98	3509410	500.0	527.5	
128 Hexachlorobutadiene	225	13.026	13.026	0.000	95	1158011	500.0	546.6	
127 1,2,4-Trichlorobenzene	180	13.051	13.051	0.000	94	3377659	500.0	544.3	
129 Naphthalene	128	13.312	13.312	0.000	99	8185275	500.0	610.0	
130 1,2,3-Trichlorobenzene	180	13.464	13.464	0.000	96	3109995	500.0	539.3	
S 131 1,2-Dichloroethene, Total	100				0		1000.0	924.4	
S 132 Xylenes, Total	100				0		1000.0	1058.2	
S 133 Total BTEX	1				0		2500.0	2539.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	40.00	Units: uL	
GAS Hi_00257	Amount Added:	50.00	Units: uL	
Ethanol mix_00016	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	50.00	Units: uL	
MIX I Hi_00094	Amount Added:	50.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 05-Jun-2018 14:49:28 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Injection Date: 05-Jun-2018 11:19:30 Instrument ID: CVOAMS11 Operator ID:

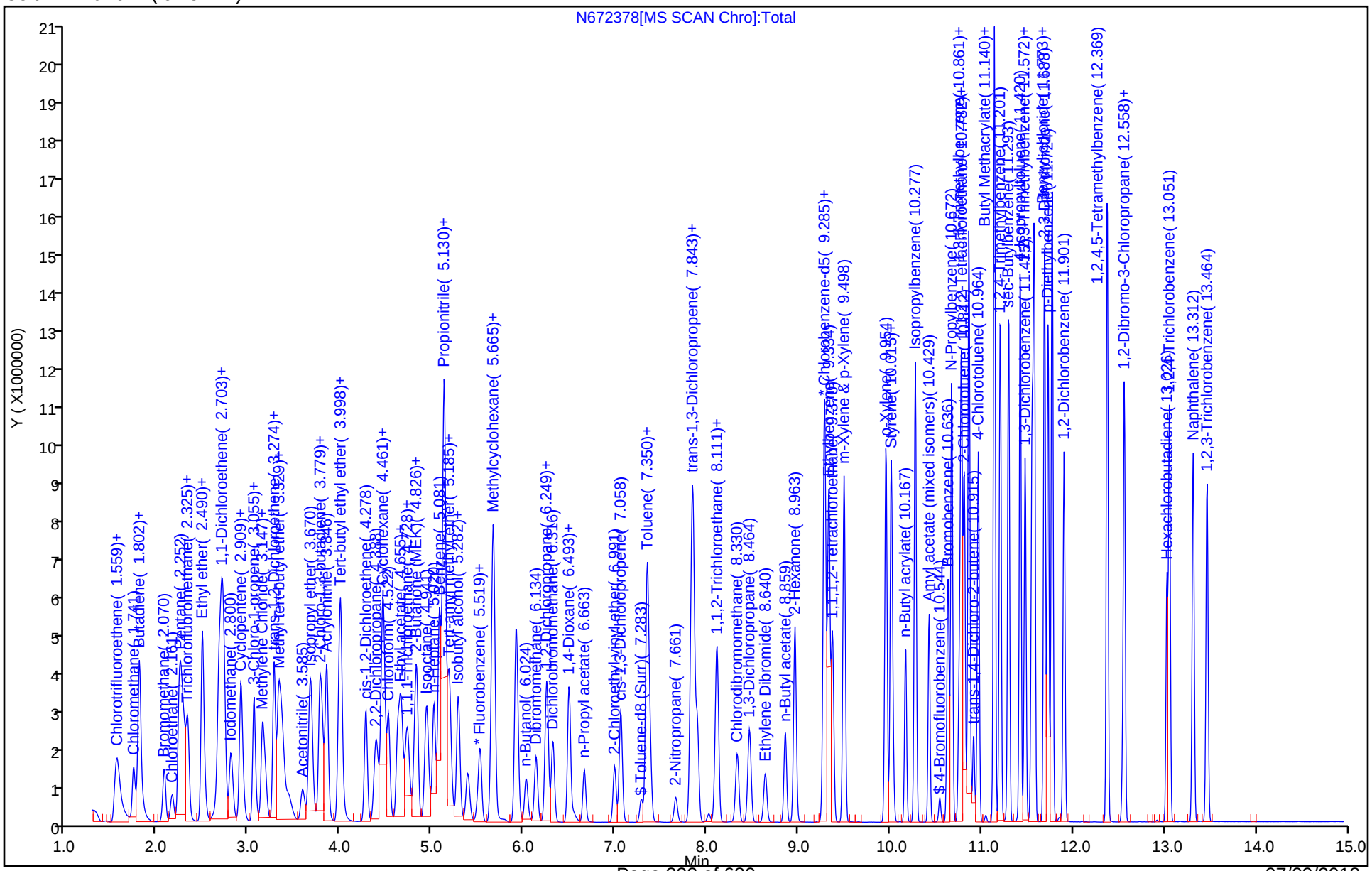
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

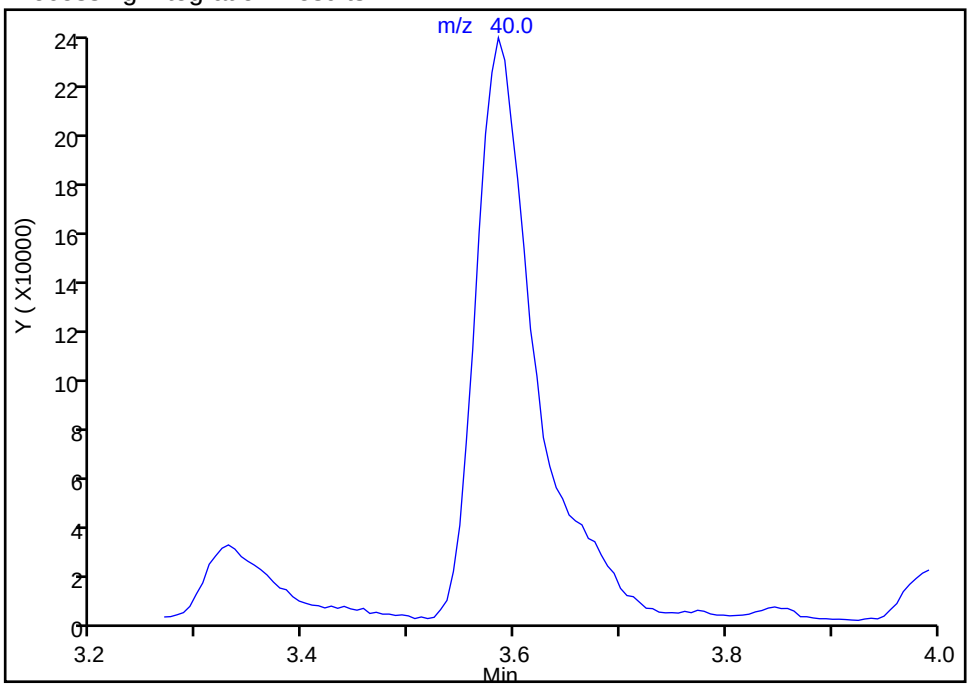
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D
Injection Date: 05-Jun-2018 11:19:30 Instrument ID: CVOAMS11
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

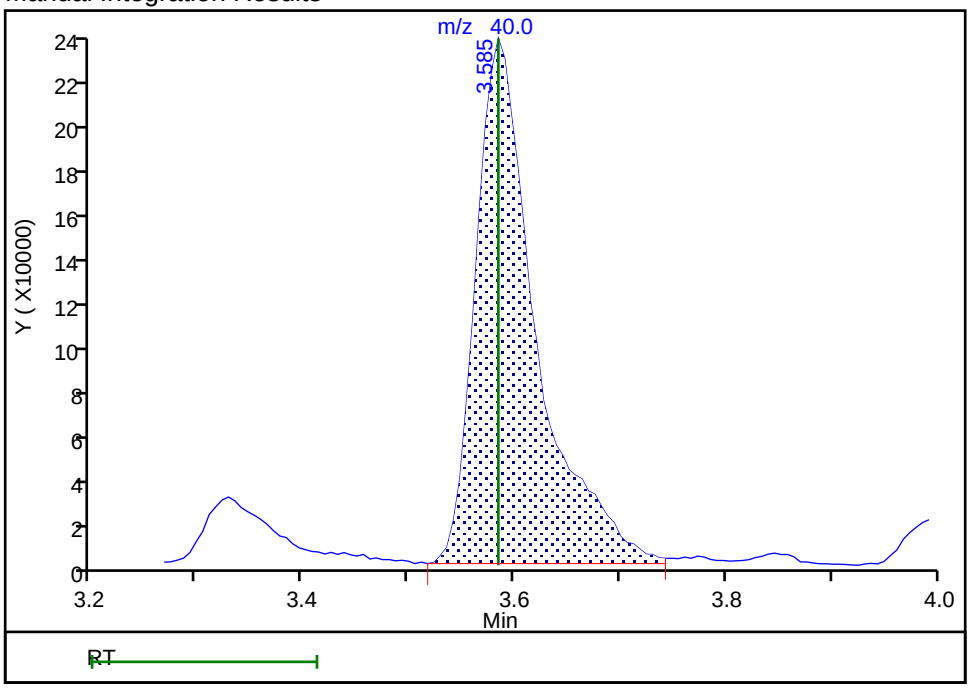
Not Detected
Expected RT: 3.58

Processing Integration Results



Manual Integration Results

RT: 3.58
Area: 941239
Amount: 5270.7704
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:30:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

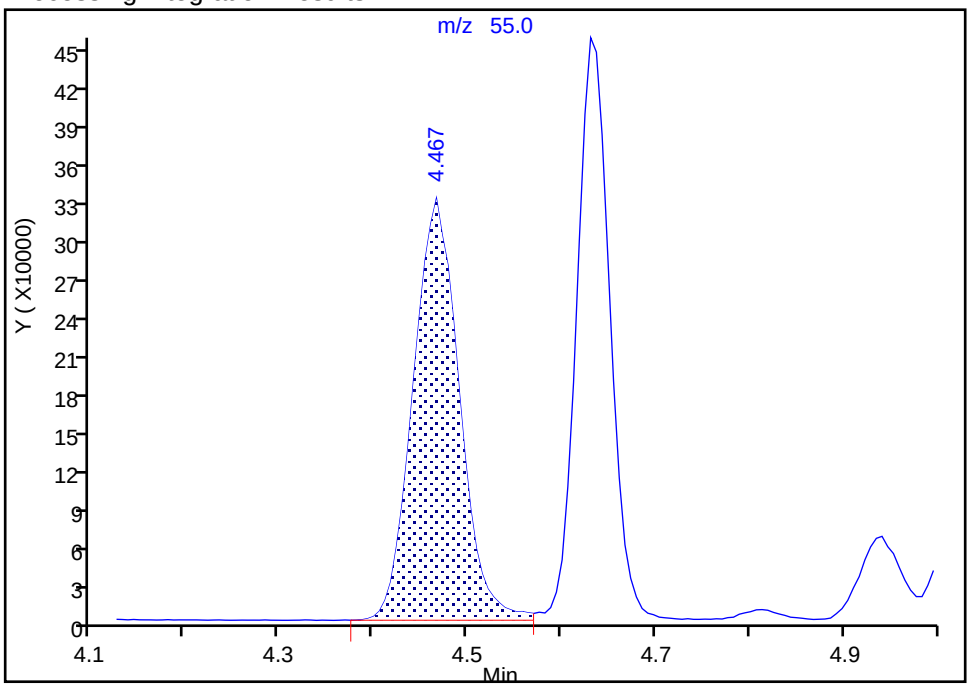
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D
Injection Date: 05-Jun-2018 11:19:30 Instrument ID: CVOAMS11
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

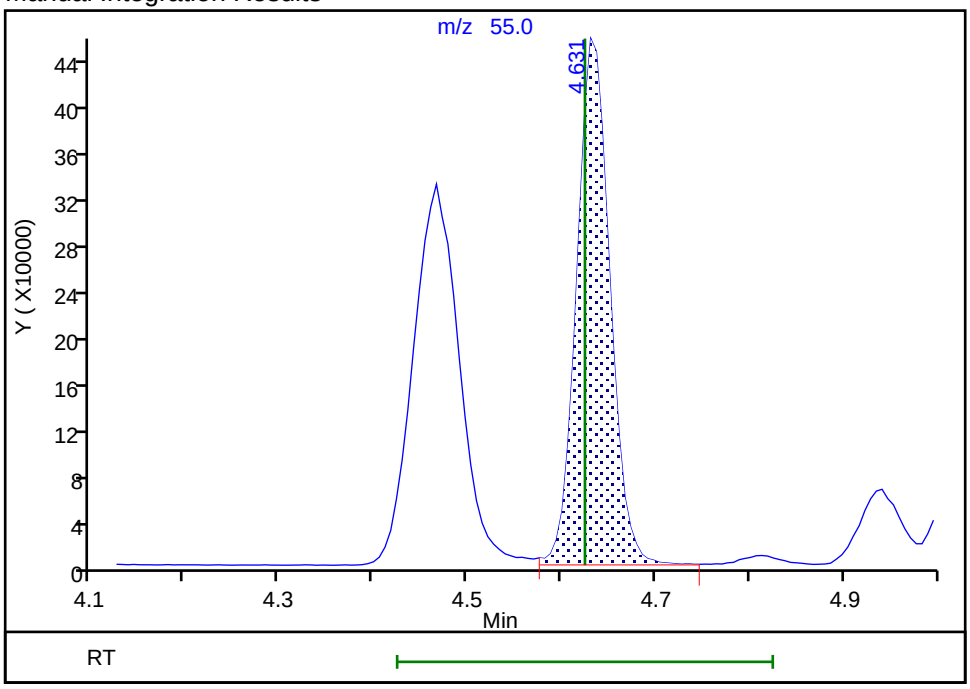
Processing Integration Results

RT: 4.47
Area: 1116671
Amount: 521.9488
Amount Units: ug/l



Manual Integration Results

RT: 4.63
Area: 1111497
Amount: 519.9496
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:30:15
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

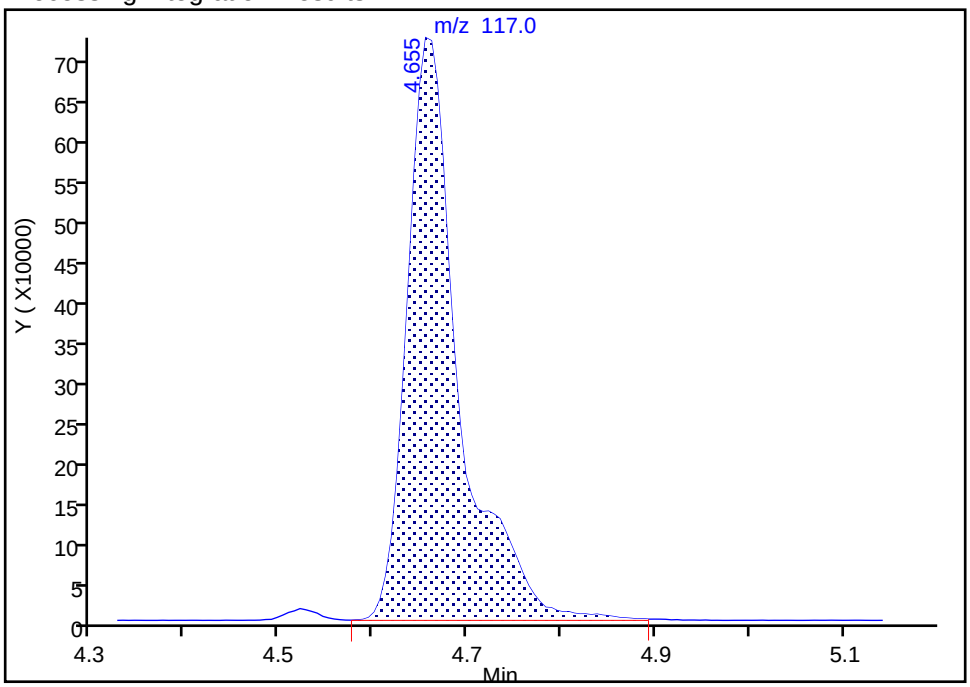
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D
Injection Date: 05-Jun-2018 11:19:30 Instrument ID: CVOAMS11
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

52 Carbon tetrachloride, CAS: 56-23-5

Signal: 1

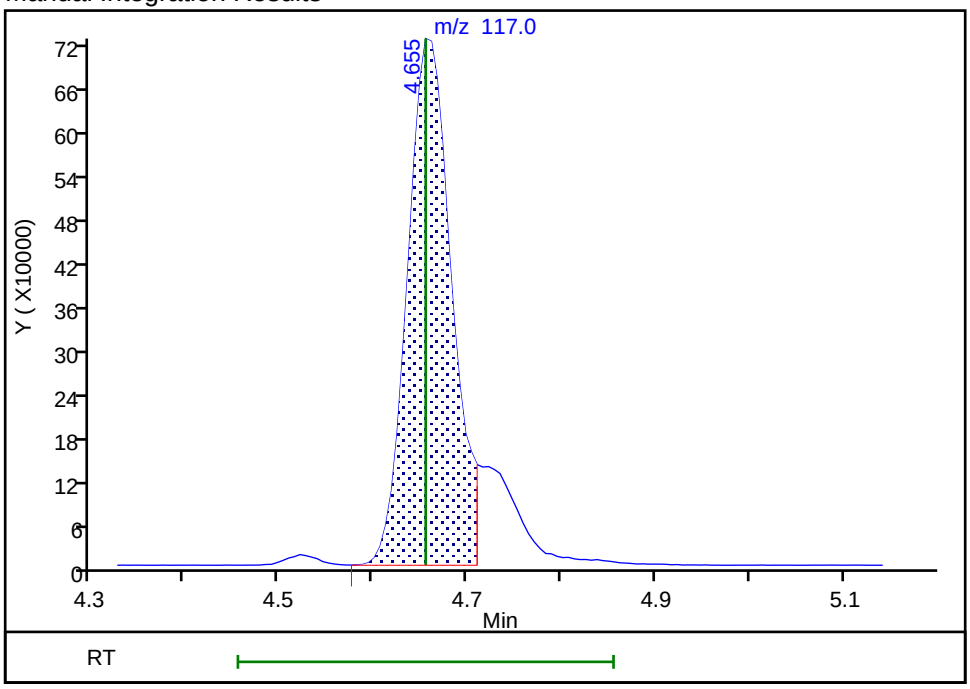
Processing Integration Results

RT: 4.66
Area: 2784327
Amount: 650.8207
Amount Units: ug/l



Manual Integration Results

RT: 4.66
Area: 2381799
Amount: 574.7582
Amount Units: ug/l



Reviewer: delpolitov, 05-Jun-2018 13:30:33
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-525048/3	F65705.D
Level 2	STD1 460-525048/5	F65707.D
Level 3	STD5 460-525048/6	F65708.D
Level 4	STD20 460-525048/7	F65709.D
Level 5	STD50 460-525048/8	F65710.D
Level 6	STD200 460-525048/9	F65711.D
Level 7	STD500 460-525048/10	F65712.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.4816	0.4045 0.4750	0.4837	0.4395	0.4446	Ave		0.4548				6.8		20.0			
Dichlorodifluoromethane	+++++ 1.1513	1.2202 1.0754	1.2206	1.1155	1.1102	Ave		1.1489			0.1000	5.3		20.0			
Chloromethane	+++++ 1.1967	1.4869 1.0511	1.3893	1.2240	1.1609	Ave		1.2515			0.1000	12.7		20.0			
Butadiene	1.5626 1.0716	1.1805 0.9835	1.0752	0.9274	0.9356	Qua2	0.1453	0.9933	0.0000214						0.9960		0.9900
Vinyl chloride	+++++ 1.1584	1.3268 1.0319	1.2856	1.1385	1.1137	Ave		1.1758			0.1000	9.4		20.0			
Bromomethane	+++++ 0.7340	0.9569 0.6607	0.8805	0.7155	0.7195	Ave		0.7778			0.1000	14.7		20.0			
Chloroethane	+++++ 0.6438	0.8063 0.5894	0.7460	0.6477	0.6411	Ave		0.6790			0.1000	11.9		20.0			
Dichlorofluoromethane	+++++ 1.5720	2.0666 1.4108	1.9079	1.6951	1.6394	Ave		1.7153				13.8		20.0			
Trichlorofluoromethane	+++++ 1.1899	1.3841 1.1338	1.3640	1.1914	1.1648	Ave		1.2380			0.1000	8.7		20.0			
Pentane	+++++ 6.9115	7.5486 8.0472	7.6701	8.5012	7.2774	Ave		7.6593				7.3		20.0			
Ethyl ether	+++++ 0.5459	0.5641 0.5003	0.6297	0.5661	0.5504	Ave		0.5594				7.5		20.0			
2-Methyl-1,3-butadiene	+++++ 0.6319	0.7546 0.5913	0.6863	0.6479	0.6329	Ave		0.6575				8.6		20.0			
Ethanol	+++++ 0.0989	0.1210 0.0858	0.1077	0.0947	0.0739	QuaF		0.1030	-0.000001						0.9980		0.9900
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.5654	0.7080 0.5620	0.6614	0.6207	0.6132	Ave		0.6218				9.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 3.4253	4.7573 4.2554	3.5276	3.9626	3.7258	Ave		3.9423				12.7		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.6562	0.7307 0.6796	0.8021	0.7406	0.7204	Ave		0.7216			0.1000	7.1		20.0			
1,1-Dichloroethene	+++++ 0.6380	0.7444 0.6426	0.7101	0.6638	0.6696	Ave		0.6781			0.1000	6.1		20.0			
Acetone	+++++ 2.2721	4.6186 1.8822	2.7881	2.3451	2.2972	Qua2	11.541	2.3117	-0.000158		0.0500				0.9990		0.9900
Iodomethane	+++++ 1.1552	1.3374 1.1074	1.2451	1.1883	1.1588	Ave		1.1987				6.8		20.0			
Carbon disulfide	+++++ 2.5024	2.9379 2.3717	2.8627	2.6735	2.6028	Ave		2.6585			0.1000	8.1		20.0			
Isopropyl alcohol	+++++ 1.5051	1.5615 1.4526	1.5372	1.4352	1.6168	Ave		1.5181				4.5		20.0			
Allyl chloride	+++++ 1.3518	1.5763 1.2825	1.5198	1.4387	1.3944	Ave		1.4273				7.6		20.0			
Methyl acetate	+++++ 0.4200	0.4605 0.3772	0.4728	0.4120	0.4075	Ave		0.4250			0.1000	8.4		20.0			
Cyclopentene	+++++ 1.7200	1.8566 1.6001	1.8554	1.7645	1.7375	Ave		1.7557				5.5		20.0			
Acetonitrile	+++++ 3.6085	1.8617 3.7712	3.3628	4.4754	4.3783	Qua2	-24.46	4.2513	-0.000119						0.9930		0.9900
Methylene Chloride	+++++ 0.7663	0.9077 0.7352	0.9022	0.8149	0.7971	Ave		0.8205			0.1000	8.6		20.0			
2-Methyl-2-propanol	+++++ 2.6960	3.0558 2.6756	3.0157	3.0068	2.8967	Ave		2.8911				5.8		20.0			
Methyl tert-butyl ether	+++++ 1.9883	2.1214 1.8105	2.1857	2.0512	2.0543	Ave		2.0352			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	+++++ 0.6875	0.8913 0.6586	0.8334	0.7323	0.7358	Ave		0.7565			0.1000	11.7		20.0			
Acrylonitrile	0.3167 0.2365	0.2471 0.2077	0.2669	0.2385	0.2407	Ave		0.2506				13.6		20.0			
Hexane	+++++ 0.5791	0.7924 0.5727	0.7093	0.6569	0.6480	Ave		0.6597				12.5		20.0			
Isopropyl ether	+++++ 2.4083	2.8197 2.1469	2.7494	2.5315	2.5231	Ave		2.5298				9.6		20.0			
1,1-Dichloroethane	+++++ 1.2619	1.5527 1.1778	1.5019	1.4126	1.3462	Ave		1.3755			0.2000	10.4		20.0			
Vinyl acetate	+++++ 0.1333	0.1176 0.1337	0.1260	0.1326	0.1286	Ave		0.1287				4.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.6377	0.6726 0.5729	0.6884	0.6305	0.6576	Ave		0.6433				6.3		20.0			
Tert-butyl ethyl ether	+++++ 2.2707	2.6160 2.0146	2.4584	2.3262	2.3356	Ave		2.3369				8.6		20.0			
2,2-Dichloropropane	+++++ 0.2567	0.2943 0.2508	0.3059	0.2708	0.2657	Ave		0.2740				7.9		20.0			
cis-1,2-Dichloroethene	+++++ 0.7823	0.9432 0.7367	0.8787	0.8348	0.8300	Ave		0.8343			0.1000	8.7		20.0			
Ethyl acetate	+++++ 0.9500	0.6444 0.8395	0.9567	0.9330	0.9167	Ave		0.8734				13.7		20.0			
2-Butanone (MEK)	+++++ 0.9567	0.8394 0.8152	0.9411	0.8799	0.9196	Ave		0.8920			0.0500	6.4		20.0			
Methyl acrylate	+++++ 0.7479	0.7787 0.6766	0.7830	0.6853	0.7287	Ave		0.7334				6.2		20.0			
Propionitrile	+++++ 4.3992	3.7589 4.5087	4.4750	4.8624	4.7267	Ave		4.4552				8.6		20.0			
Chlorobromomethane	+++++ 0.3569	0.3948 0.3338	0.4164	0.3740	0.3729	Ave		0.3748				7.7		20.0			
Tetrahydrofuran	+++++ 1.0994	1.2158 0.9615	1.1889	0.9621	1.0786	Ave		1.0844				10.0		20.0			
Methacrylonitrile	+++++ 0.2522	0.2534 0.2260	0.2518	0.2480	0.2468	Ave		0.2464				4.2		20.0			
Chloroform	+++++ 1.1690	1.3683 1.0989	1.3941	1.2886	1.2367	Ave		1.2593			0.2000	9.1		20.0			
Cyclohexane	+++++ 1.0552	1.0069 1.0714	1.1971	1.1461	1.1410	Ave		1.1030			0.1000	6.4		20.0			
1,1,1-Trichloroethane	+++++ 1.0409	1.2460 1.0123	1.1727	1.1150	1.0933	Ave		1.1134			0.1000	7.7		20.0			
Carbon tetrachloride	+++++ 0.8506	0.9607 0.8452	0.9359	0.8841	0.8891	Ave		0.8943			0.1000	5.1		20.0			
1,1-Dichloropropene	+++++ 0.9376	1.0794 0.9052	1.0585	0.9998	0.9980	Ave		0.9964				6.7		20.0			
Isobutyl alcohol	+++++ 2.0123	1.6366 2.1808	1.7898	2.1129	2.0282	Ave		1.9601				10.5		20.0			
Benzene	+++++ 3.9433	4.8865 3.4898	4.7695	4.4462	4.4049	Ave		4.3234			0.5000	12.1		20.0			
Isopropyl acetate	+++++ 1.9777	2.0172 1.7903	2.0196	1.8470	1.8900	Ave		1.9236				5.0		20.0			
Tert-amyl methyl ether	+++++ 2.3685	2.4119 2.1320	2.5508	2.3494	2.3486	Ave		2.3602				5.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.8918	1.0762 0.8410	1.0307	0.9072	0.9056	Ave		0.9421			0.1000	9.6		20.0			
n-Heptane	+++++ 0.5053	0.5233 0.5019	0.5839	0.5634	0.5440	Ave		0.5370				6.1		20.0			
n-Butanol	+++++ 0.5483	0.0835 0.5766	0.2916	0.3726	0.4645	Qua2	-8.523	0.4126	0.0000153						0.9900		0.9900
Trichloroethene	+++++ 0.6984	0.8227 0.6693	0.8043	0.7155	0.7207	Ave		0.7385			0.2000	8.3		20.0			
Ethyl acrylate	+++++ 1.6461	1.5431 1.6901	1.6446	1.6197	1.6676	Ave		1.6352				3.1		20.0			
Methylcyclohexane	+++++ 1.2007	1.2962 1.2246	1.3656	1.3127	1.2991	Ave		1.2831			0.1000	4.7		20.0			
1,2-Dichloropropane	+++++ 0.7484	0.8405 0.7037	0.8001	0.7513	0.7544	Ave		0.7664			0.1000	6.2		20.0			
Methyl methacrylate	+++++ 0.1602	0.1341 0.1536	0.1352	0.1425	0.1542	Ave		0.1466				7.4		20.0			
n-Propyl acetate	+++++ 0.8244	0.7109 0.7636	0.6809	0.7213	0.7554	Ave		0.7427				6.7		20.0			
Dibromomethane	+++++ 0.4090	0.4877 0.3928	0.4585	0.4243	0.4136	Ave		0.4310				8.2		20.0			
1,4-Dioxane	+++++ 3.7581	2.0577 2.6306	3.0853	2.0087	1.9068	QuaF		4.1212	-0.000148						0.9900		0.9900
Bromodichloromethane	+++++ 0.9579	0.9855 0.9082	0.9934	0.9292	0.9447	Ave		0.9532			0.2000	3.4		20.0			
2-Chloroethyl vinyl ether	+++++ 0.4174	0.3878 0.3754	0.3383	0.3531	0.3757	Ave		0.3746				7.3		20.0			
2-Nitropropane	+++++ 0.1454	0.2204 0.1400	0.1638	0.1278	0.1294	Qua2	0.1782	0.1332	0.0000090						0.9950		0.9900
Epichlorohydrin	0.7120 0.8216	0.6787 0.6707	0.7754	0.7130	0.7672	Ave		0.7341				7.6		20.0			
cis-1,3-Dichloropropene	+++++ 1.6238	1.6804 1.5089	1.6190	1.5808	1.6198	Ave		1.6055			0.2000	3.6		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 8.9213	7.1849 7.0492	8.1780	8.4725	8.7868	Ave		8.0988			0.0500	9.9		20.0			
Toluene	+++++ 4.1092	4.9327 3.5768	4.6544	4.4412	4.4281	Ave		4.3571			0.4000	10.8		20.0			
trans-1,3-Dichloropropene	+++++ 1.3639	1.3176 1.3009	1.3685	1.2794	1.3308	Ave		1.3268			0.1000	2.6		20.0			
Ethyl methacrylate	+++++ 1.2243	0.9616 1.1149	1.0770	1.1168	1.1922	Ave		1.1145				8.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	+++++ 0.6989	0.8135 0.6616	0.8048	0.7312	0.7323	Ave		0.7404			0.1000	8.0		20.0			
Tetrachloroethene	+++++ 0.9566	1.1846 0.9084	1.0636	1.0360	1.0375	Ave		1.0311			0.2000	9.2		20.0			
1,3-Dichloropropane	+++++ 1.3990	1.4262 1.2954	1.4433	1.3554	1.4063	Ave		1.3876				3.9		20.0			
2-Hexanone	+++++ 5.1906	2.5761 4.3284	4.3034	4.4160	4.7678	Qua2	-11.38	4.8269	-0.000122		0.0500				0.9960		0.9900
n-Butyl acetate	+++++ 1.3853	1.2849 1.1968	1.3933	1.2994	1.4003	Ave		1.3267				6.1		20.0			
Dibromochloromethane	+++++ 0.9134	0.9136 0.8595	0.9146	0.8897	0.9228	Ave		0.9023			0.1000	2.6		20.0			
1,2-Dibromoethane	+++++ 0.7815	0.7351 0.7257	0.8446	0.7621	0.7667	Ave		0.7693			0.1000	5.5		20.0			
Chlorobenzene	+++++ 2.5574	2.7722 2.3529	2.8098	2.6140	2.6646	Ave		2.6285			0.5000	6.3		20.0			
Ethylbenzene	+++++ 1.4719	1.7103 1.3880	1.6568	1.5512	1.5665	Ave		1.5574			0.1000	7.6		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.9776	1.0911 0.9047	1.0113	1.0069	1.0204	Ave		1.0020				6.1		20.0			
m-Xylene & p-Xylene	+++++ 1.8287	1.8184 1.6923	1.9302	1.9078	1.9386	Ave		1.8527			0.1000	5.1		20.0			
n-Butyl acrylate	+++++ 0.7627	0.8513 0.6868	0.7121	0.6904	0.7522	Ave		0.7426				8.3		20.0			
o-Xylene	+++++ 1.8646	1.9803 1.6812	2.0100	1.9589	2.0065	Ave		1.9169			0.3000	6.6		20.0			
Styrene	+++++ 2.9177	2.5983 2.6053	3.0382	3.0171	3.0744	Ave		2.8752			0.3000	7.6		20.0			
Amyl acetate (mixed isomers)	+++++ 3.1615	1.8681 2.8880	2.4886	2.7441	2.9562	Qua2	-1.048	2.8784	0.0002250						0.9970		0.9900
Bromoform	+++++ 0.5551	0.5359 0.5191	0.5788	0.5409	0.5663	Ave		0.5494			0.1000	4.0		20.0			
Isopropylbenzene	+++++ 4.5564	5.1516 3.6122	5.1519	5.1108	5.1900	Ave		4.7955			0.1000	13.1		20.0			
Bromobenzene	+++++ 1.9878	2.1053 1.9086	2.1484	2.0534	2.0812	Ave		2.0474				4.2		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.9537	2.1601 1.7993	2.2251	1.9180	1.9524	Ave		2.0014			0.3000	8.0		20.0			
N-Propylbenzene	+++++ 9.4473	11.033 7.4337	10.778	10.616	10.435	Ave		9.9572				13.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.5431	0.5545 0.4955	0.5819	0.5626	0.5292	Ave		0.5445				5.5		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.5066	0.5594 0.4897	0.4865	0.4780	0.4893	Ave		0.5016				5.9		20.0			
2-Chlorotoluene	+++++ 6.9945	7.1933 5.9095	7.4311	7.2715	7.2450	Ave		7.0075				7.9		20.0			
4-Ethyltoluene	+++++ 8.3829	8.6644 6.6815	8.5962	8.8076	8.7221	Ave		8.3091				9.8		20.0			
1,3,5-Trimethylbenzene	+++++ 7.1780	7.5879 5.9183	7.7458	7.6987	7.6238	Ave		7.2921				9.6		20.0			
4-Chlorotoluene	+++++ 5.9724	6.7008 5.3254	6.7978	6.3657	6.3690	Ave		6.2552				8.6		20.0			
Butyl Methacrylate	+++++ 2.7870	1.5874 2.5703	2.2825	2.4084	2.6477	Qua2	-1.012	2.5774	0.0001437						0.9980		0.9900
tert-Butylbenzene	+++++ 5.9027	5.6641 5.1198	5.7050	6.0002	6.0838	Ave		5.7459				6.0		20.0			
1,2,4-Trimethylbenzene	+++++ 7.3101	7.6361 5.8477	7.8203	7.8770	7.7727	Ave		7.3773				10.5		20.0			
sec-Butylbenzene	+++++ 8.6270	9.0648 6.7176	9.2884	9.4645	9.5127	Ave		8.7792				12.1		20.0			
4-Isopropyltoluene	+++++ 7.5589	7.6020 5.9324	7.8409	7.9614	8.0857	Ave		7.4969				10.6		20.0			
1,3-Dichlorobenzene	+++++ 3.8613	4.5208 3.4223	4.2285	4.0890	4.0706	Ave		4.0321			0.6000	9.2		20.0			
1,4-Dichlorobenzene	+++++ 3.8677	4.5457 3.4797	4.3796	4.1571	4.1477	Ave		4.0962			0.5000	9.3		20.0			
1,2,3-Trimethylbenzene	+++++ 7.8642	8.2753 5.9820	8.2790	8.1203	8.1666	Ave		7.7812				11.5		20.0			
Benzyl chloride	+++++ 4.0988	3.5369 3.4762	3.7148	3.9382	4.0751	Ave		3.8066				7.1		20.0			
Indan	+++++ 7.4409	8.4019 5.6244	8.2035	7.9007	7.8939	Ave		7.5776				13.3		20.0			
p-Diethylbenzene	+++++ 4.3811	4.9544 3.7676	4.4770	4.5111	4.6041	Ave		4.4492				8.7		20.0			
n-Butylbenzene	+++++ 3.9893	4.2421 3.5228	4.2735	4.2266	4.2682	Ave		4.0871				7.3		20.0			
1,2-Dichlorobenzene	+++++ 3.8201	4.3966 3.3450	4.2811	4.0540	4.0821	Ave		3.9965			0.4000	9.4		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 7.3546	7.8894 5.4502	7.5168	7.6440	7.6639	Ave		7.2531				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.3745	0.5279 0.3369	0.3878	0.3604	0.3520	Qua2	0.1700	0.3570	-0.000025		0.0500				0.9990		0.9900
1,3,5-Trichlorobenzene	+++++ 2.9836	3.3234 2.6075	3.3102	3.0968	3.1205	Ave		3.0737				8.6		20.0			
1,2,4-Trichlorobenzene	+++++ 2.7166	2.5472 2.4162	2.7523	2.7031	2.7633	Ave		2.6498			0.2000	5.2		20.0			
Hexachlorobutadiene	+++++ 1.1861	1.3714 1.1084	1.2541	1.1914	1.2271	Ave		1.2231				7.2		20.0			
Naphthalene	+++++ 6.4212	6.5072 5.0914	6.0171	5.7723	6.3105	Ave		6.0199				8.8		20.0			
1,2,3-Trichlorobenzene	+++++ 2.4521	2.8229 2.1555	2.4993	2.3419	2.4211	Ave		2.4488				9.0		20.0			
Dibromofluoromethane (Surr)	0.2550 0.2310	0.2557 0.2270	0.2609	0.2558	0.2414	Ave		0.2467				5.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2921 0.3234	0.3013 0.3285	0.2930	0.2880	0.2702	Ave		0.2995				6.8		20.0			
Toluene-d8 (Surr)	1.4549 1.4278	1.4784 1.3935	1.4539	1.4651	1.4970	Ave		1.4529				2.3		20.0			
4-Bromofluorobenzene	0.4174 0.4160	0.4159 0.3903	0.4278	0.4113	0.4101	Ave		0.4127				2.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-525048/3	F65705.D
Level 2	STD1 460-525048/5	F65707.D
Level 3	STD5 460-525048/6	F65708.D
Level 4	STD20 460-525048/7	F65709.D
Level 5	STD50 460-525048/8	F65710.D
Level 6	STD200 460-525048/9	F65711.D
Level 7	STD500 460-525048/10	F65712.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 629431	2547 1653089	15092	55519	142666	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 1504837	7683 3742797	38084	140900	356231	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1564119	9362 3658233	43349	154611	372506	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Qua2	2788 1400579	7433 3422837	33549	117148	300218	0.250 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 1514038	8354 3591383	40113	143809	357370	+++++ 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 959335	6025 2299493	27473	90379	230851	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 841444	5077 2051335	23276	81808	205699	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 2054678	13012 4910096	59531	214119	526038	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 1555275	8715 3945917	42559	150492	373746	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 339122	1866 898064	8644	32453	78720	+++++ 400	2.00 1000	10.0	40.0	100
Ethyl ether	FB	Ave	+++++ 713472	3552 1741336	19647	71507	176612	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 825924	4751 2058088	21415	81836	203078	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd 9	QuaF	+++++ 97051	598 191591	2428	7230	15993	+++++ 8000	40.0 20000	200	800	2000
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 739007	4458 1955979	20636	78404	196761	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd 9	Ave	+++++ 84033	2352 189962	7951	15127	40302	+++++ 200	4.00 400	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 857644	4601 2365245	25026	93550	231164	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 833928	4687 2236606	22157	83850	214842	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Qua2	+++++ 1004464	9981 2398063	29237	97832	247290	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1509898	8421 3854064	38849	150106	371827	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 3270727	18498 8254275	89321	337699	835179	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 369251	1930 810550	8662	27394	87444	+++++ 2000	10.0 5000	50.0	200	500
Allyl chloride	FB	Ave	+++++ 1766915	9925 4463433	47422	181735	447413	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 1097855	5799 2625434	29506	104096	261514	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 2248059	11690 5569038	57891	222881	557525	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Qua2	+++++ 885271	2301 2104313	18949	85423	236800	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 1001523	5715 2558755	28149	102929	255775	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 661419	3777 1492976	16993	57392	156668	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 2598832	13357 6301119	68197	259092	659177	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 898589	5612 2292263	26004	92502	236090	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	4521 3091407	15556 7228534	83263	301210	772231	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	+++++ 756915	4989 1993226	22131	82974	207924	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 3147778	17754 7471872	85787	319767	809587	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1649314	9776 4099167	46863	178432	431972	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 348460	1481 930842	7865	33510	82549	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 833500	4235 1993825	21478	79642	211002	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 2967966	16471 7011647	76707	293839	749441	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 335479	1853 872801	9546	34208	85261	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1022516	5939 2564002	27417	105442	266315	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 167988	557 427842	4013	15568	39472	+++++ 400	2.00 1000	10.0	40.0	100
2-Butanone (MEK)	BUT	Ave	+++++ 422936	1814 1038642	9869	36705	98992	+++++ 1000	5.00 2500	25.0	100	250
Methyl acrylate	CBNZ d5	Ave	+++++ 691628	3198 1709783	16350	58370	156804	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 1079267	4646 2515814	25216	92810	255647	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 466457	2486 1161859	12993	47240	119657	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 194418	1051 489986	4987	16055	46445	+++++ 400	2.00 1000	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 3296913	15958 7865981	78570	313305	792048	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 1527896	8615 3824440	43498	162773	396837	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1379206	6340 3728822	37353	144770	366125	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 1360442	7845 3523228	36589	140841	350816	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 1111812	6049 2941542	29201	111676	285281	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 1225536	6796 3150346	33028	126286	320224	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 1234211	5057 3042128	25214	100821	274244	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZ d5	Ave	+++++ 3646795	20068 8818598	99595	378715	947836	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 2584944	12701 6230911	63015	233304	606451	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 3095777	15186 7419954	79588	296768	753601	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 1165613	6776 2926892	32161	114589	290583	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 660440	3295 1746639	18218	71165	174567	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd 9	Qua2	+++++ 336269	258 804371	4108	17781	62801	+++++ 5000	25.0 12500	125	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	+++++ 912859	5180 2329487	25096	90379	231237	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 2151499	9716 5881967	51313	204598	535081	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1569356	8161 4262026	42609	165817	416832	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 978165	5292 2449192	24966	94898	242057	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 418733	1689 1068899	8439	35997	98978	+++++ 400	2.00 1000	10.0	40.0	100
n-Propyl acetate	FB	Ave	+++++ 1077533	4476 2657483	21245	91111	242383	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromomethane	FB	Ave	+++++ 534624	3071 1366990	14306	53594	132719	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dioxane	DXE	QuaF	+++++ 86166	1077 177620	3002	6680	19253	+++++ 4000	50.0 10000	100	400	1000
Bromodichloromethane	FB	Ave	+++++ 1252062	6205 3160813	30996	117374	303140	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 545526	2442 1306411	10555	44598	120560	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Qua2	+++++ 380057	2775 974287	10221	32296	83029	+++++ 400	2.00 1000	10.0	40.0	100
Epichlorohydrin	BUT	Ave	1768 1452825	5867 3418024	32523	118976	330354	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1501754	6901 3812855	33807	134648	348556	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 3943948	15527 8981202	85758	353446	945885	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	+++++ 3800215	20258 9038290	97190	378293	952842	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1261396	5411 3287222	28576	108977	286351	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 1132220	3949 2817405	22489	95125	256546	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 646363	3341 1671890	16805	62280	157571	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 884689	4865 2295526	22210	88247	223240	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 1293837	5857 3273395	30138	115453	302610	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Qua2	+++++ 2294667	5567 5514769	45127	184222	513244	+++++ 1000	5.00 2500	25.0	100	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Ave	+++++ 1281103	5277 3024202	29094	110679	301321	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 844759	3752 2171924	19099	75779	198562	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 722746	3019 1833696	17636	64915	164986	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 2365072	11385 5945689	58672	222658	573377	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1361207	7024 3507316	34596	132132	337079	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 904117	4481 2286081	21117	85765	219570	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1691182	7468 4276435	40305	162501	417158	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 705309	3496 1735420	14870	58810	161856	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 1724412	8133 4248287	41972	166858	431751	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 2698318	10671 6583318	63443	256992	661552	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Qua2	+++++ 1587572	4498 3809539	30329	133240	364053	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 513343	2201 1311782	12087	46072	121865	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 4213782	21157 9127834	107580	435331	1116785	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 998221	5069 2517666	26183	99700	256290	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 981086	5201 2373469	27118	93127	240433	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 4744071	26566 9805805	131352	515435	1285093	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 272701	1335 653587	7092	27316	65175	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 254387	1347 645910	5929	23208	60256	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 3512386	17320 7795191	90565	353064	892206	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 4209590	20862 8813522	104764	427649	1074113	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 3604513	18270 7806794	94400	373809	938853	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 2999148	16134 7024727	82847	309087	784330	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 1399515	3822 3390548	27817	116941	326053	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2964115	13638 6753516	69529	291339	749210	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 3670846	18386 7713715	95308	382464	957191	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 4332155	21826 8861164	113201	459545	1171472	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 3795805	18304 7825492	95560	386566	995738	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1939009	10885 4514374	51534	198543	501287	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1942231	10945 4590046	53375	201846	510785	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 3949110	19925 7890902	100899	394281	1005697	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 2058249	8516 4585450	45273	191218	501836	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 3736568	20230 7419109	99979	383617	972120	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 2200018	11929 4969801	54562	219034	566987	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2003282	10214 4646971	52083	205224	525625	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1918307	10586 4412407	52175	196840	502699	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 3693231	18996 7189354	91609	371152	943788	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Qua2	+++++ 188042	1271 444463	4726	17499	43344	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1498256	8002 3439518	40342	150364	384287	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1364183	6133 3187144	33543	131250	340299	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 595626	3302 1462094	15284	57849	151114	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 3224490	15668 6716059	73332	280271	777126	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1231356	6797 2843344	30460	113710	298154	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525048

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/05/2018 02:24 Calibration End Date: 06/05/2018 05:09 Calibration ID: 69272

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	90982 75486	80506 79001	81390	80780	77450	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	104222 105688	94842 114338	91436	90949	86699	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	344991 330101	303576 352122	303594	311994	322124	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	98971 96175	85396 98638	89339	87576	88252	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Jun-2018 02:24:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0073199-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:06:32 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 03:17:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.821	1.820	0.001	66	2788	0.2500	0.2470	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	129154	1000.0	1000.0	
31 Acrylonitrile	53	3.464	3.447	0.017	80	4521	2.00	2.53	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	124151	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	90982	50.0	51.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	104222	50.0	48.8	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	356840	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.060	6.027	0.033	0	9497	1000.0	1000.0	M
75 Epichlorohydrin	57	6.701	6.685	0.016	23	1768	5.00	4.85	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	344991	50.0	50.1	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	88	237127	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	98971	50.0	50.6	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	97	127151	50.0	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

14DIOXINTER_00084	Amount Added:	0.00	Units: uL	
GAS Hi_00257	Amount Added:	0.00	Units: uL	
MIX I Hi_00094	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	0.00	Units: uL	
Ethanol mix_00016	Amount Added:	0.00	Units: uL	
ACROLEIN W_00077	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00050	Amount Added:	20.00	Units: uL	
GASES Li_00262	Amount Added:	2.50	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

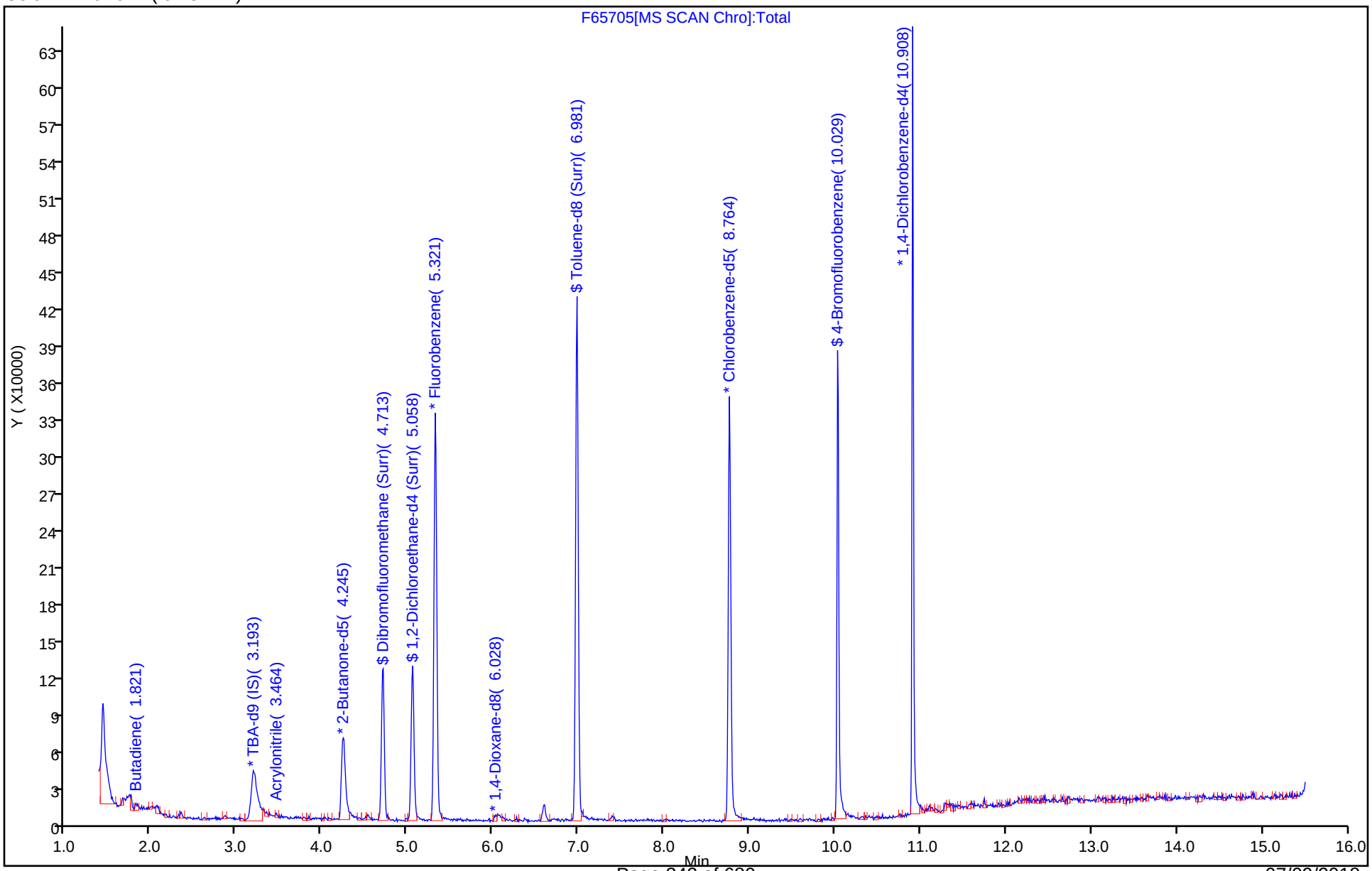
Report Date: 07-Jun-2018 13:06:39 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D

Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD8			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

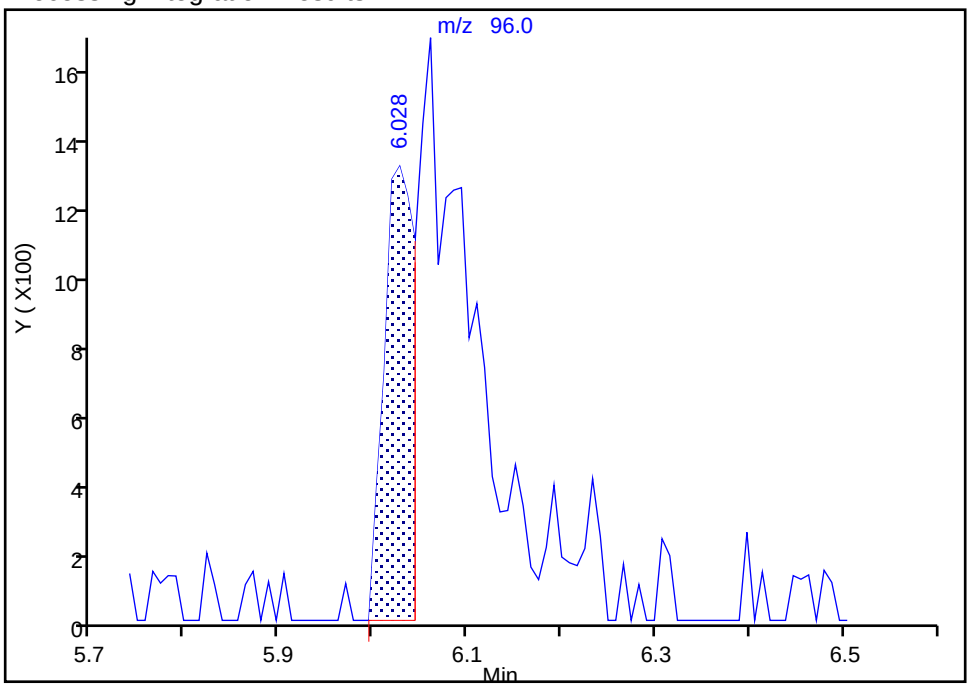
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

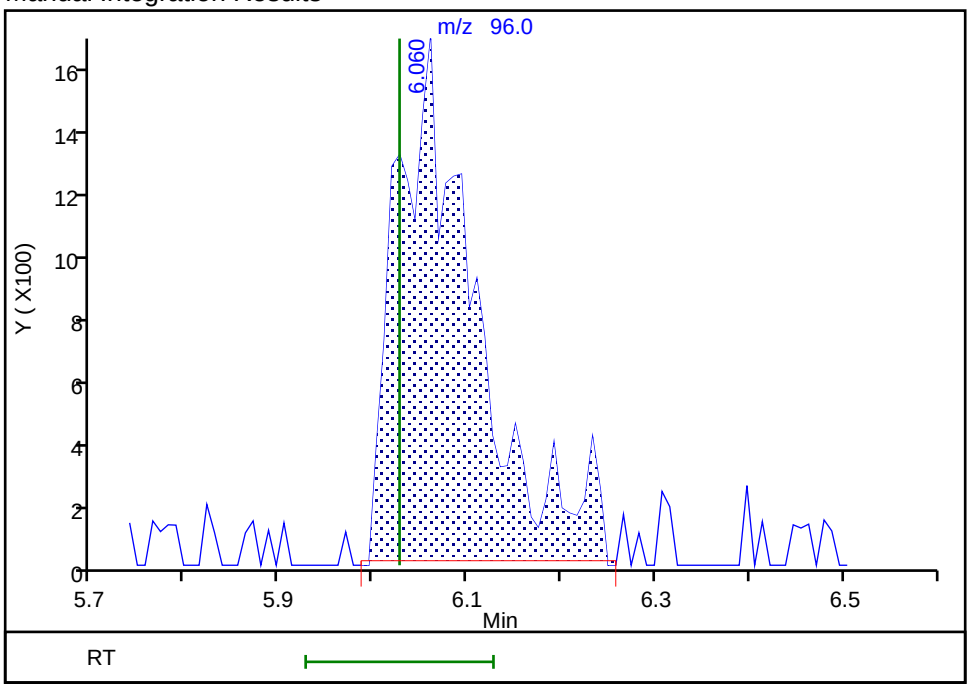
Processing Integration Results

RT: 6.03
Area: 2869
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 9497
Amount: 1000.0000
Amount Units: ug/l



Reviewer: moroneyc, 05-Jun-2018 10:14:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

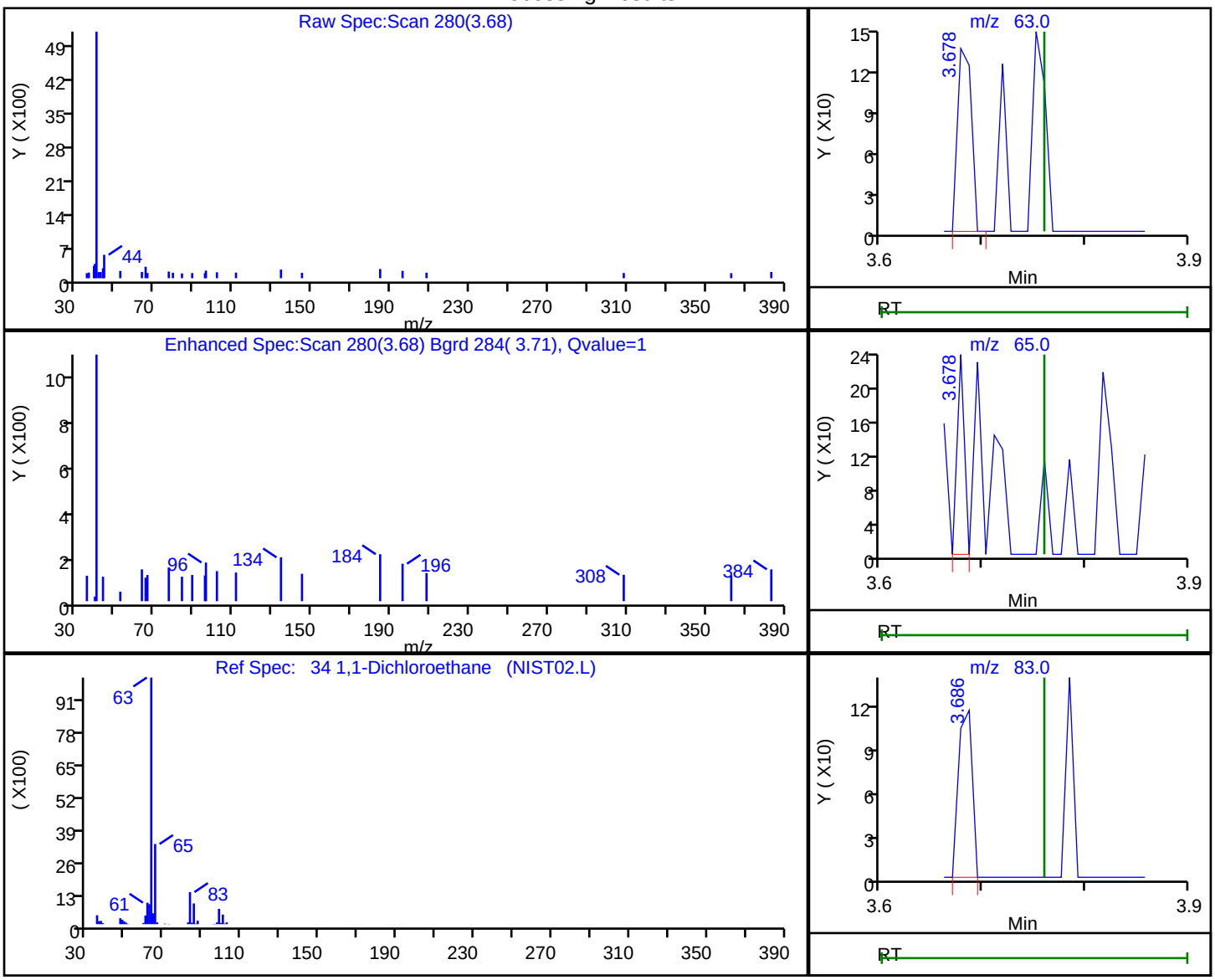
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
3.68	63.00	122	0.011689
3.68	65.00	117	
3.69	83.00	105	

Reviewer: boykink, 05-Jun-2018 05:33:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

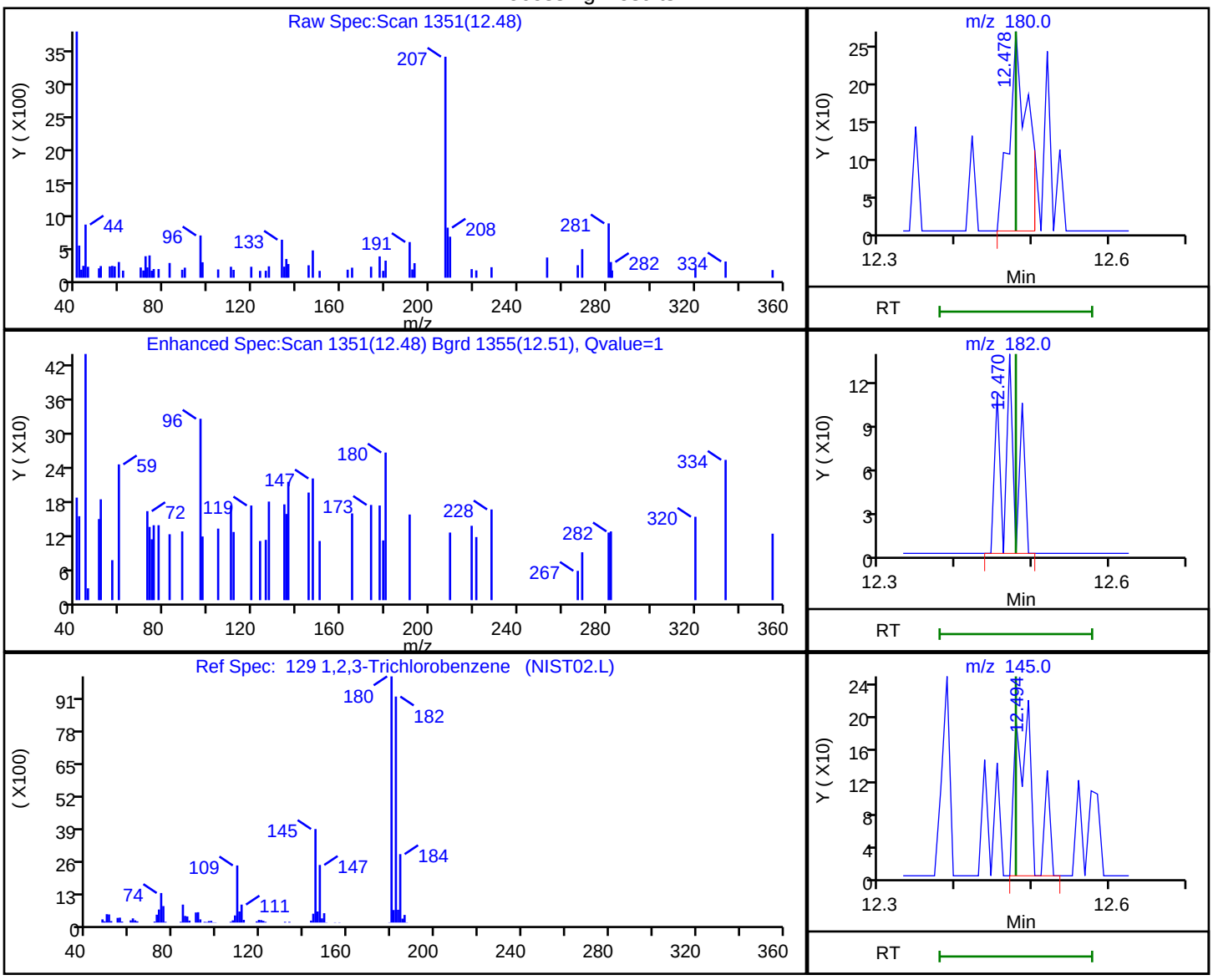
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

129 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
12.48	180.00	437	0.066208
12.47	182.00	169	
12.49	145.00	317	

Reviewer: boykink, 05-Jun-2018 05:33:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

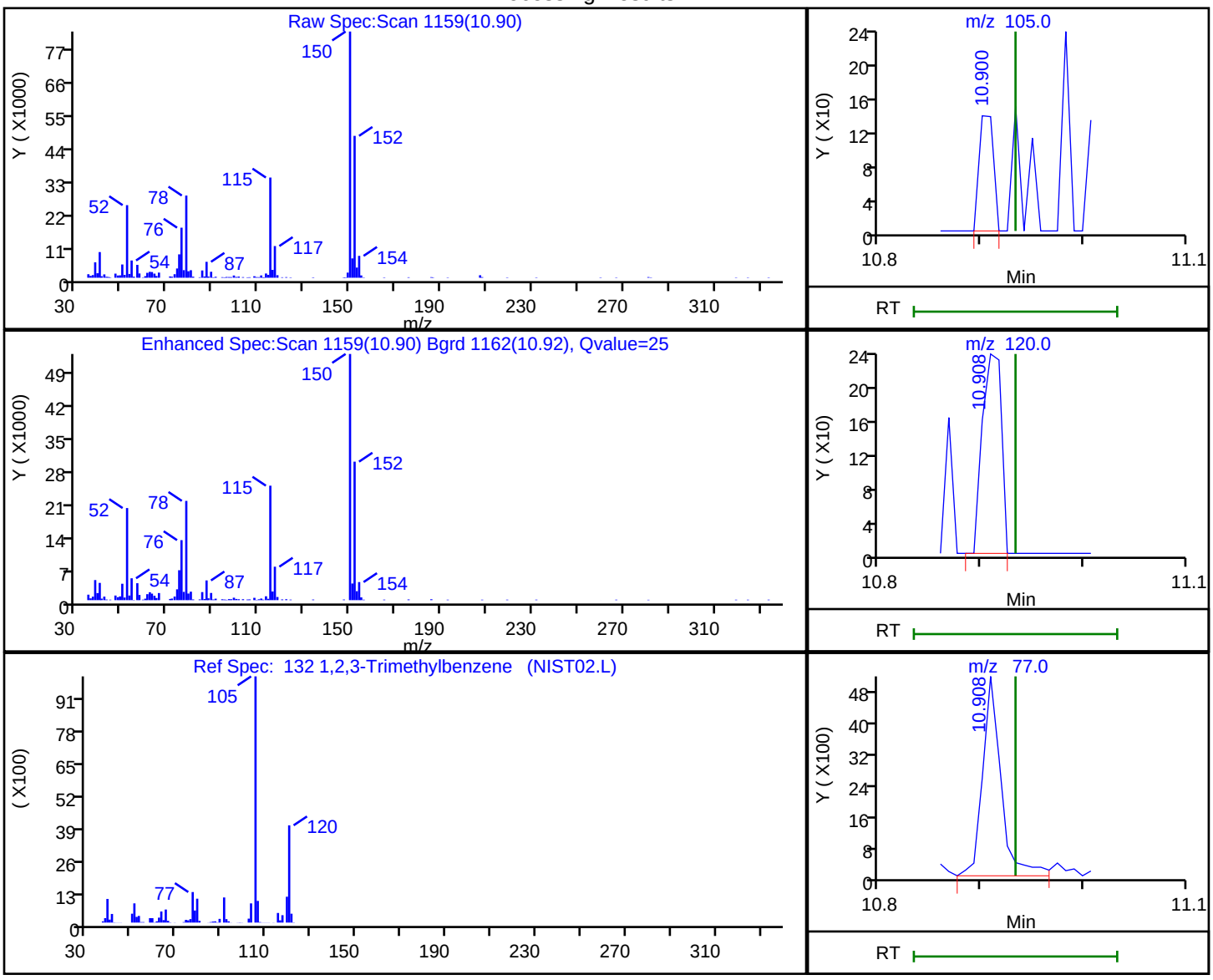
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.90	105.00	132	0.006266
10.91	120.00	302	
10.91	77.00	6525	

Reviewer: boykink, 05-Jun-2018 05:33:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

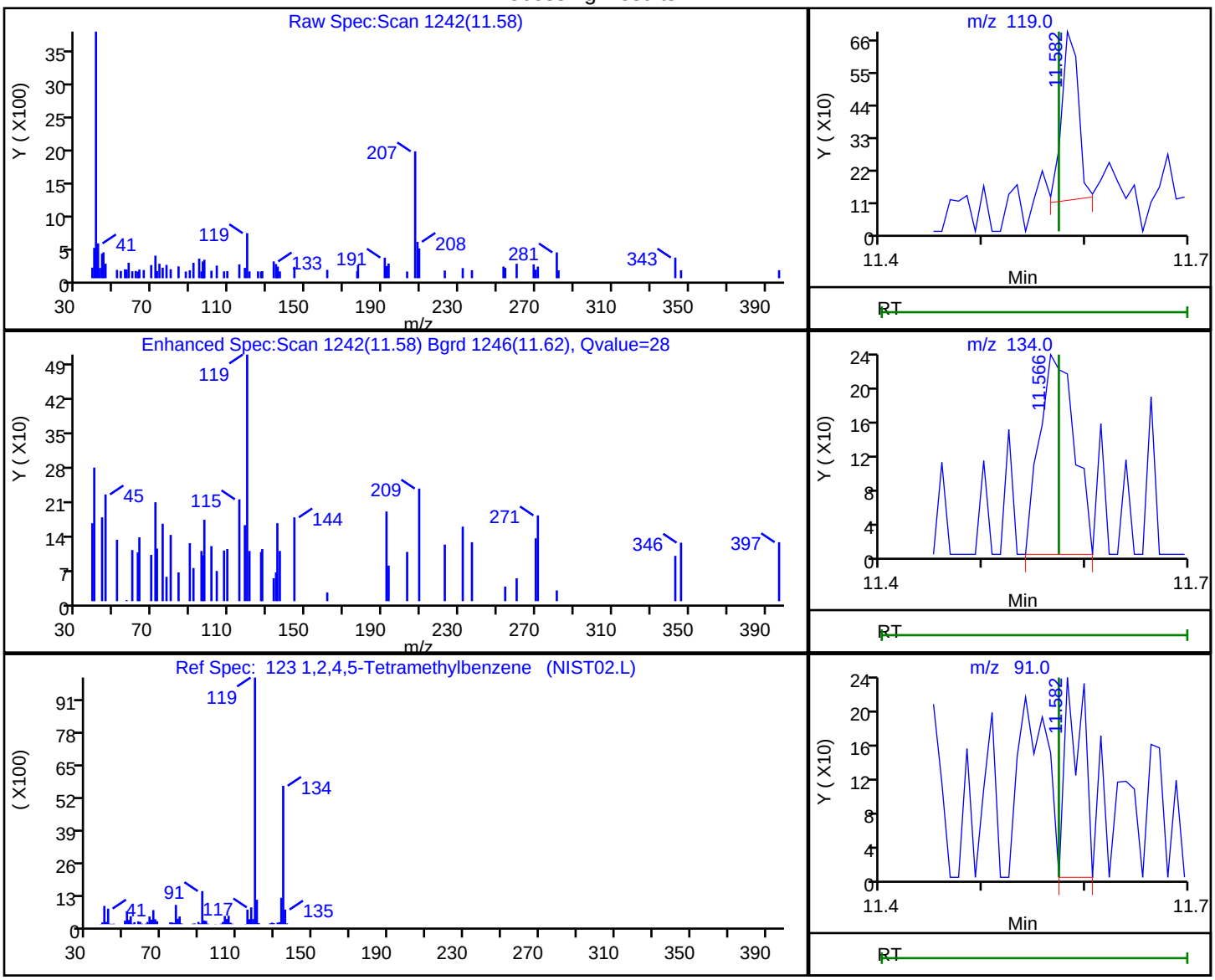
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
11.58	119.00	653	0.032964
11.57	134.00	562	
11.58	91.00	285	

Reviewer: boykink, 05-Jun-2018 05:33:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

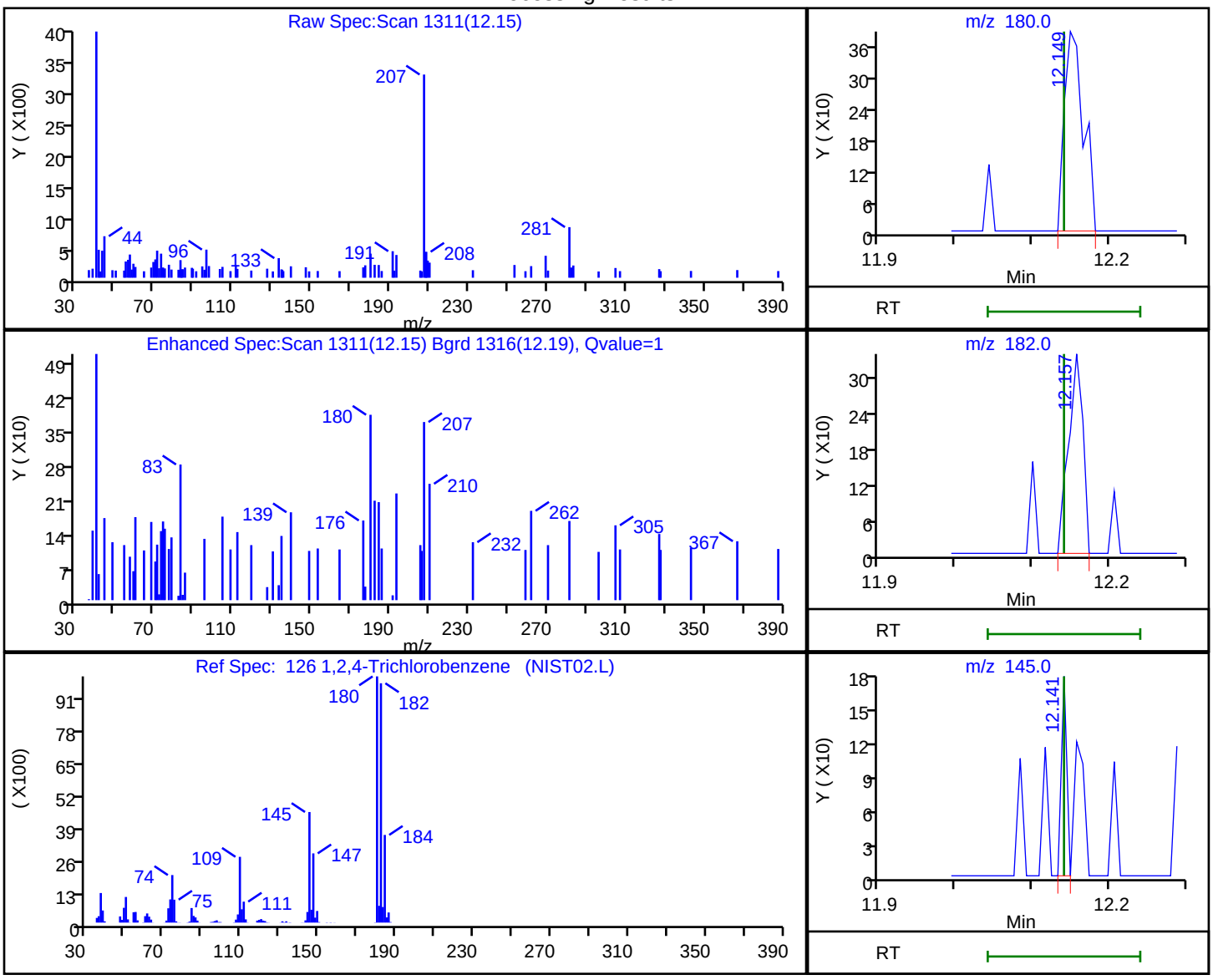
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

126 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
12.15	180.00	667	0.093009
12.16	182.00	444	
12.14	145.00	89	

Reviewer: boykink, 05-Jun-2018 05:33:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

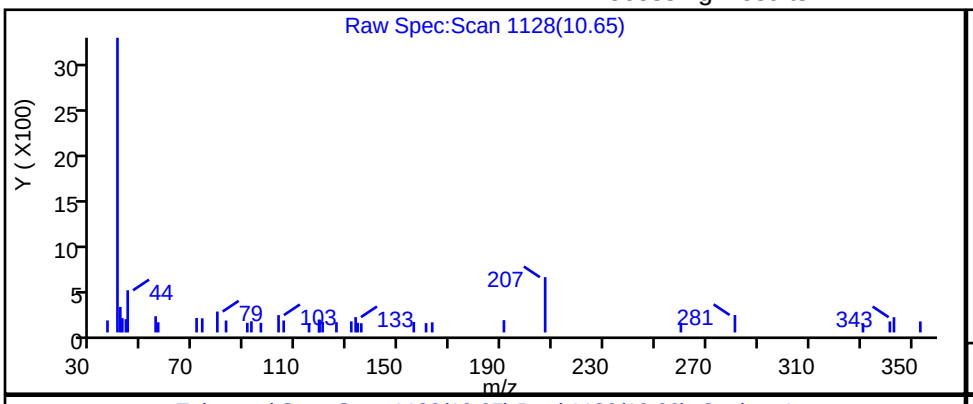
User Disabled Compound Report

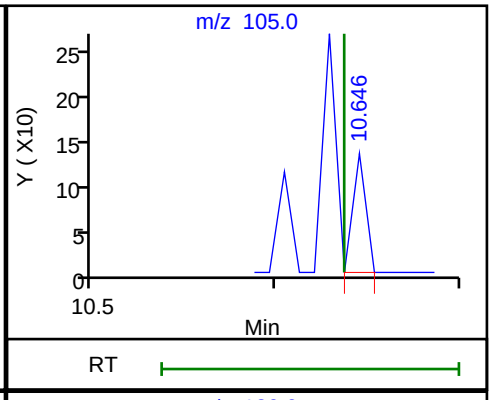
TestAmerica Edison

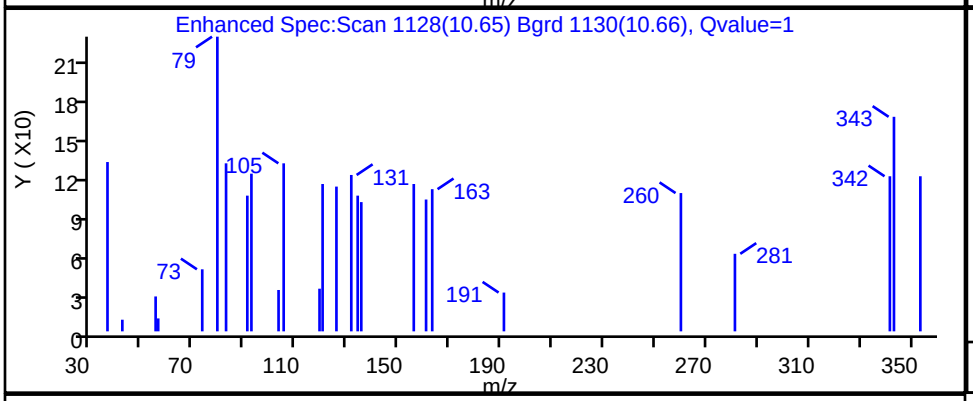
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

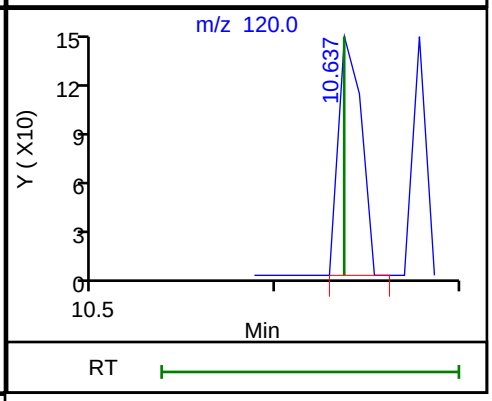
112 1,2,4-Trimethylbenzene, CAS: 95-63-6

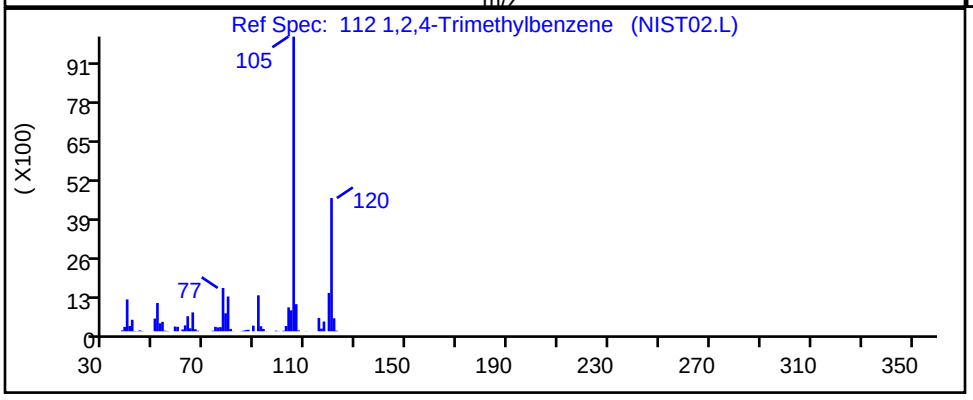
Processing Results











RT	Mass	Response	Amount
10.65	105.00	64	0.003242
10.64	120.00	130	

Reviewer: boykink, 05-Jun-2018 05:33:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

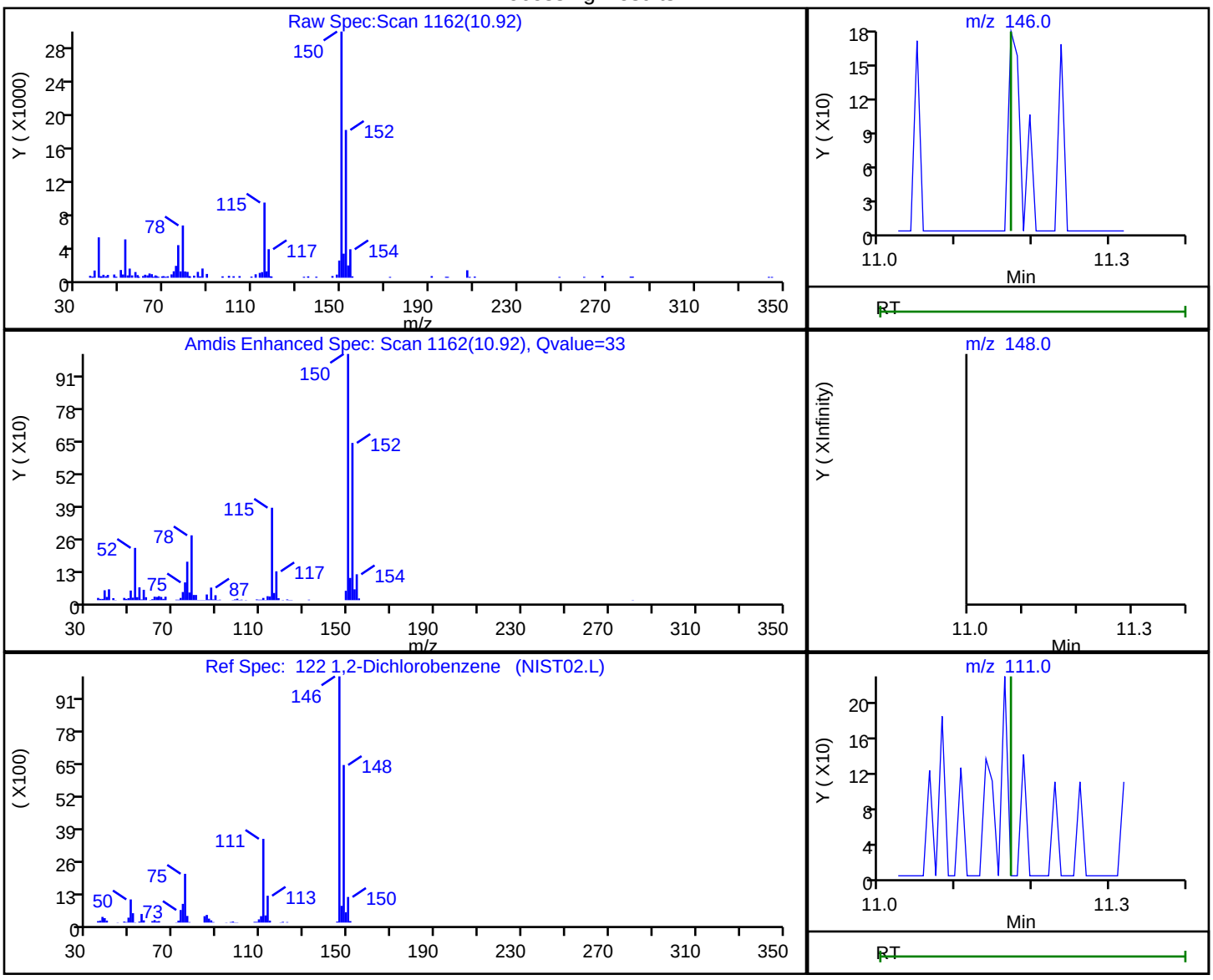
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

122 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
10.92	146.00	385	0.035587
10.92	148.00	187	
10.91	111.00	1812	

Reviewer: boykink, 05-Jun-2018 05:33:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

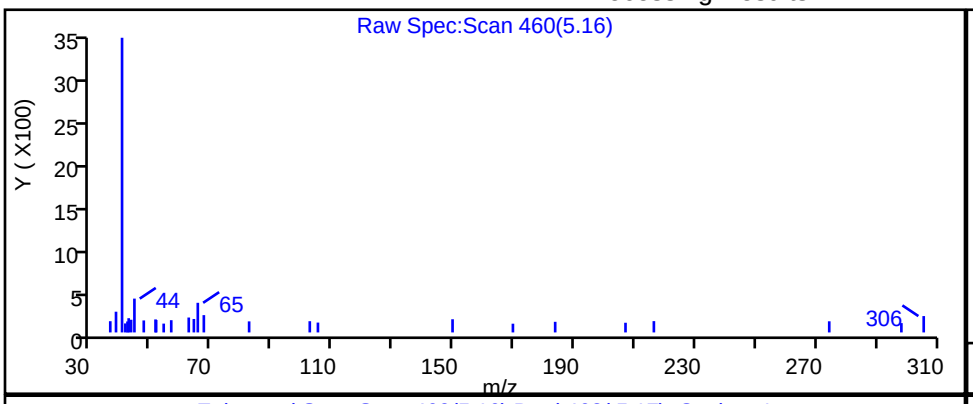
User Disabled Compound Report

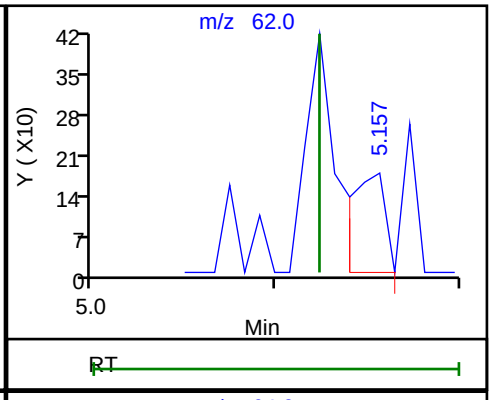
TestAmerica Edison

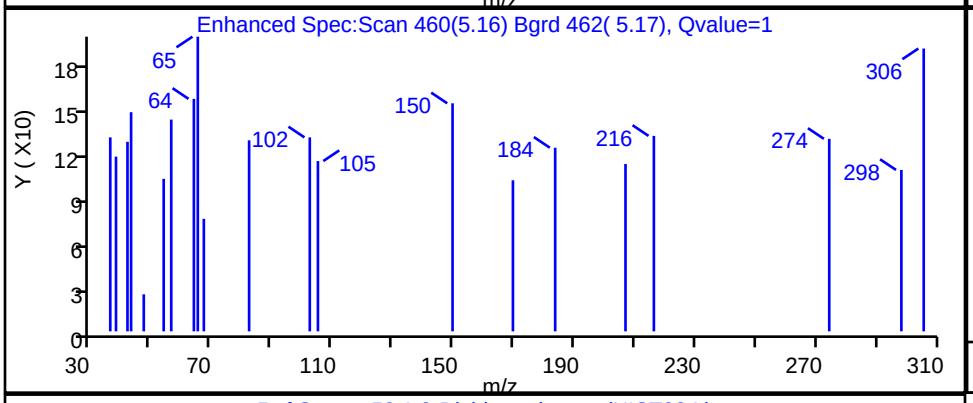
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

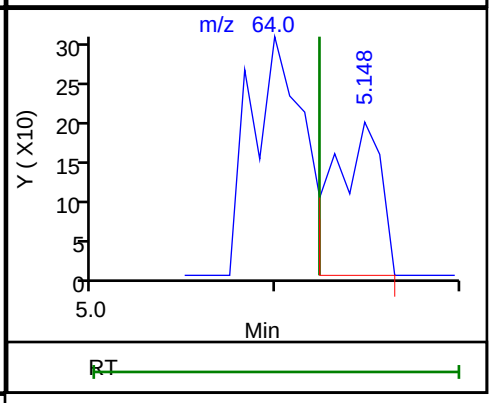
59 1,2-Dichloroethane, CAS: 107-06-2

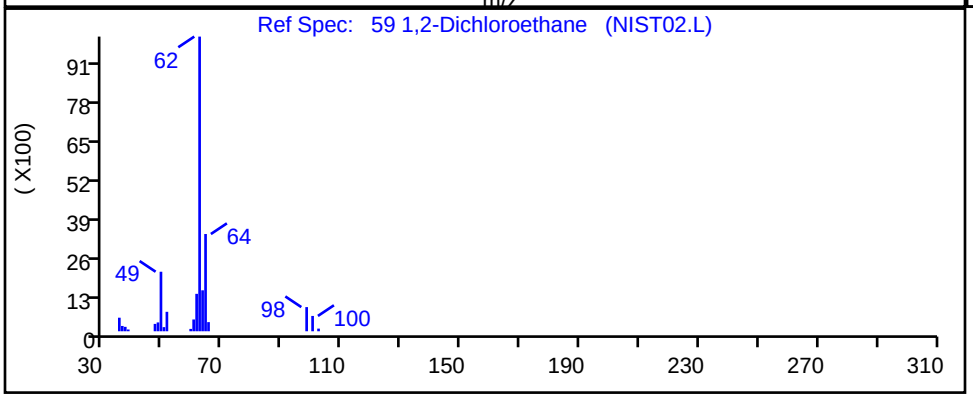
Processing Results











RT	Mass	Response	Amount
5.16	62.00	229	0.032046
5.15	64.00	356	

Reviewer: boykink, 05-Jun-2018 05:33:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

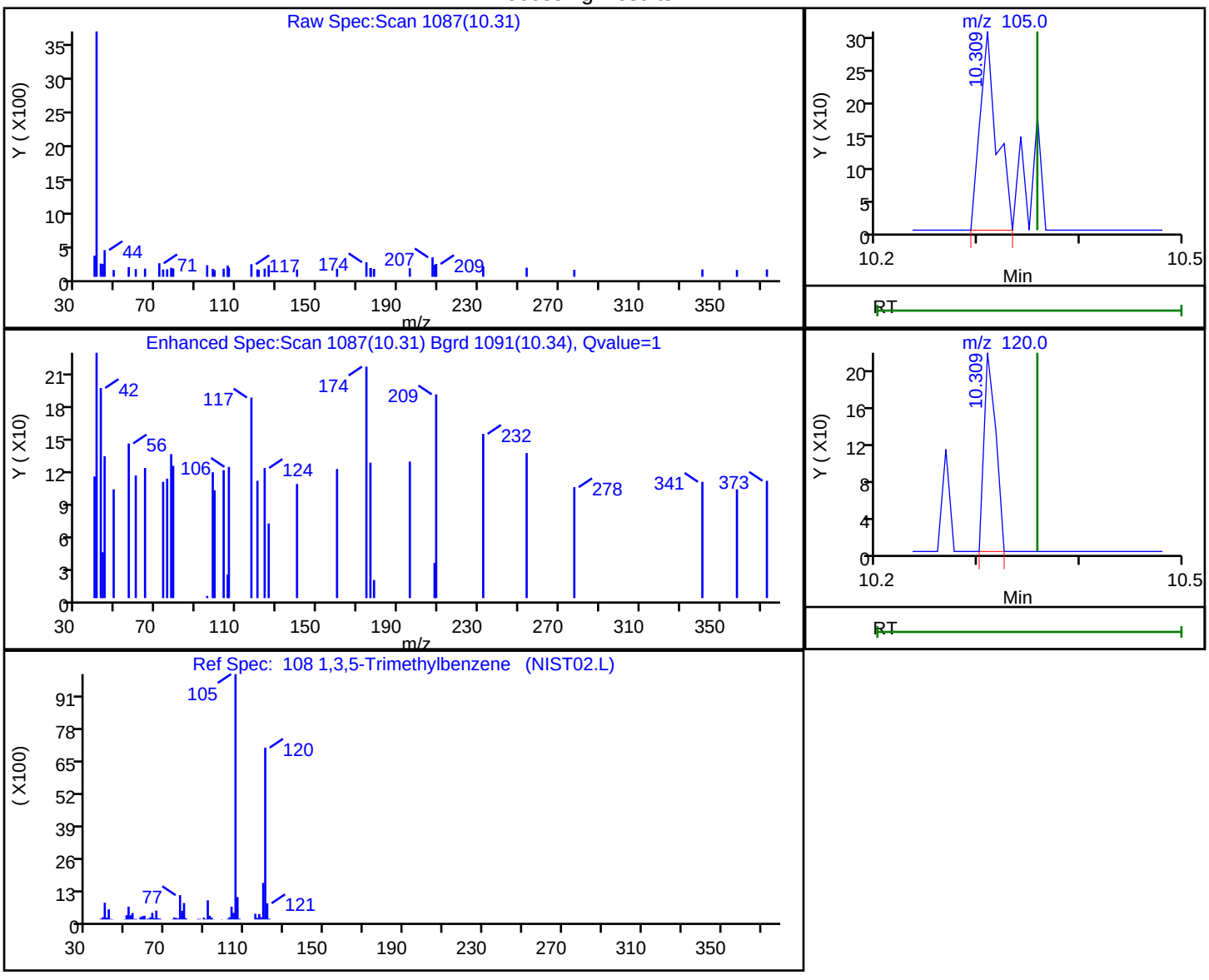
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D		
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

108 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.31	105.00	356	0.017978
10.31	120.00	169	

Reviewer: boykink, 05-Jun-2018 05:33:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

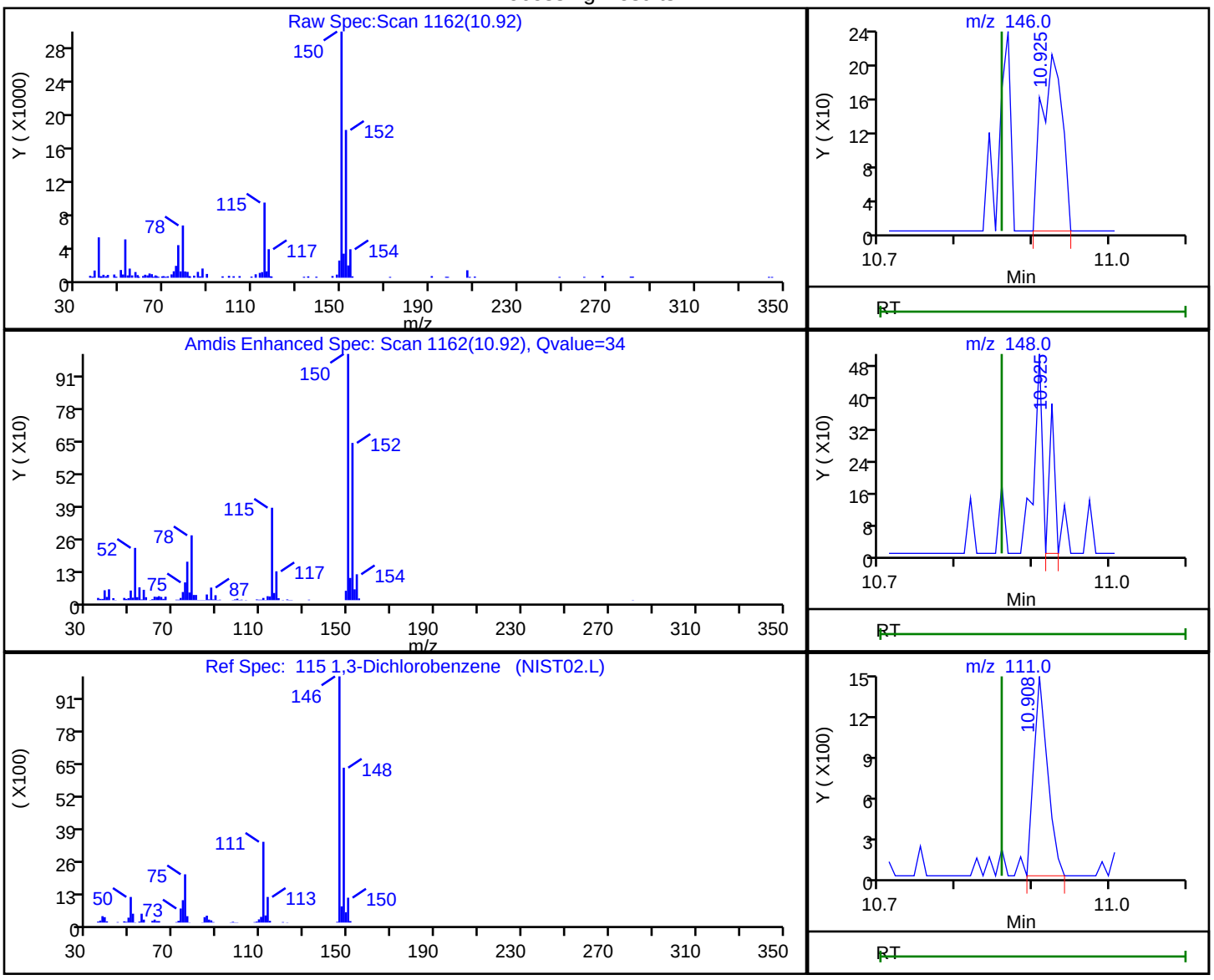
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.92	146.00	385	0.035121
10.92	148.00	187	
10.91	111.00	1812	

Reviewer: boykink, 05-Jun-2018 05:33:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

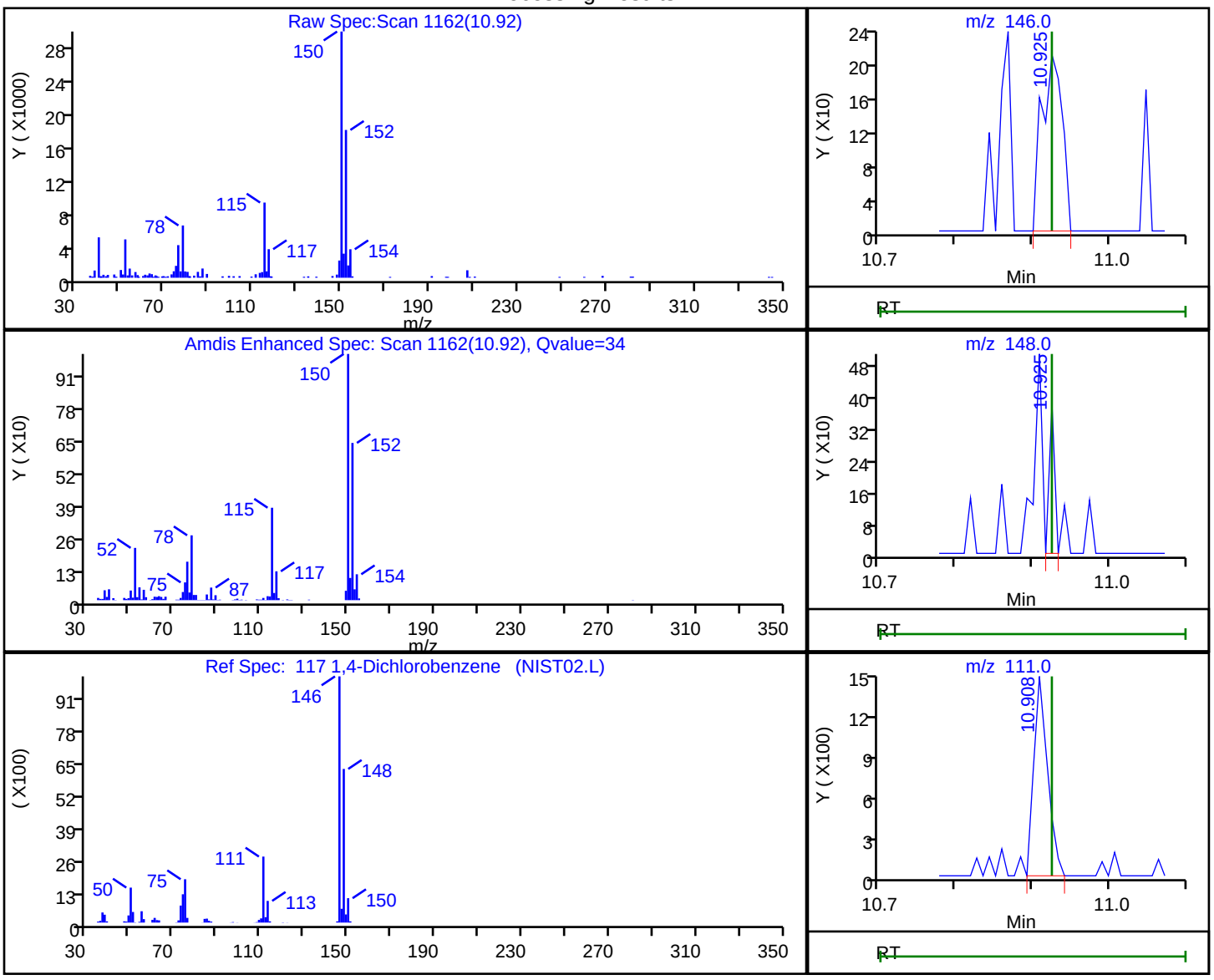
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

117 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
10.92	146.00	385	0.034418
10.92	148.00	187	
10.91	111.00	1812	

Reviewer: boykink, 05-Jun-2018 05:33:42
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

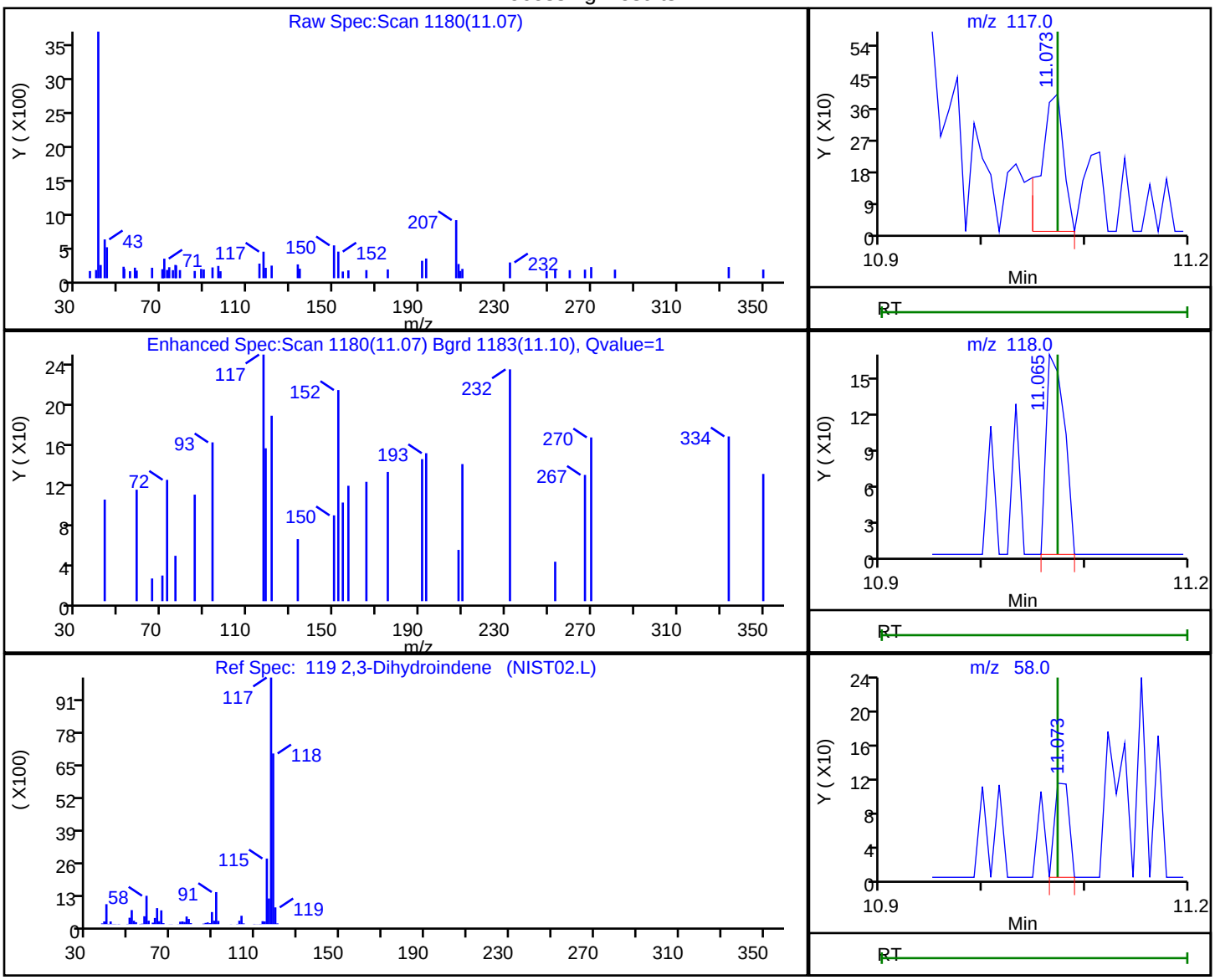
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

119 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
11.07	117.00	606	0.029169
11.06	118.00	211	
11.07	58.00	111	

Reviewer: boykink, 05-Jun-2018 05:33:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

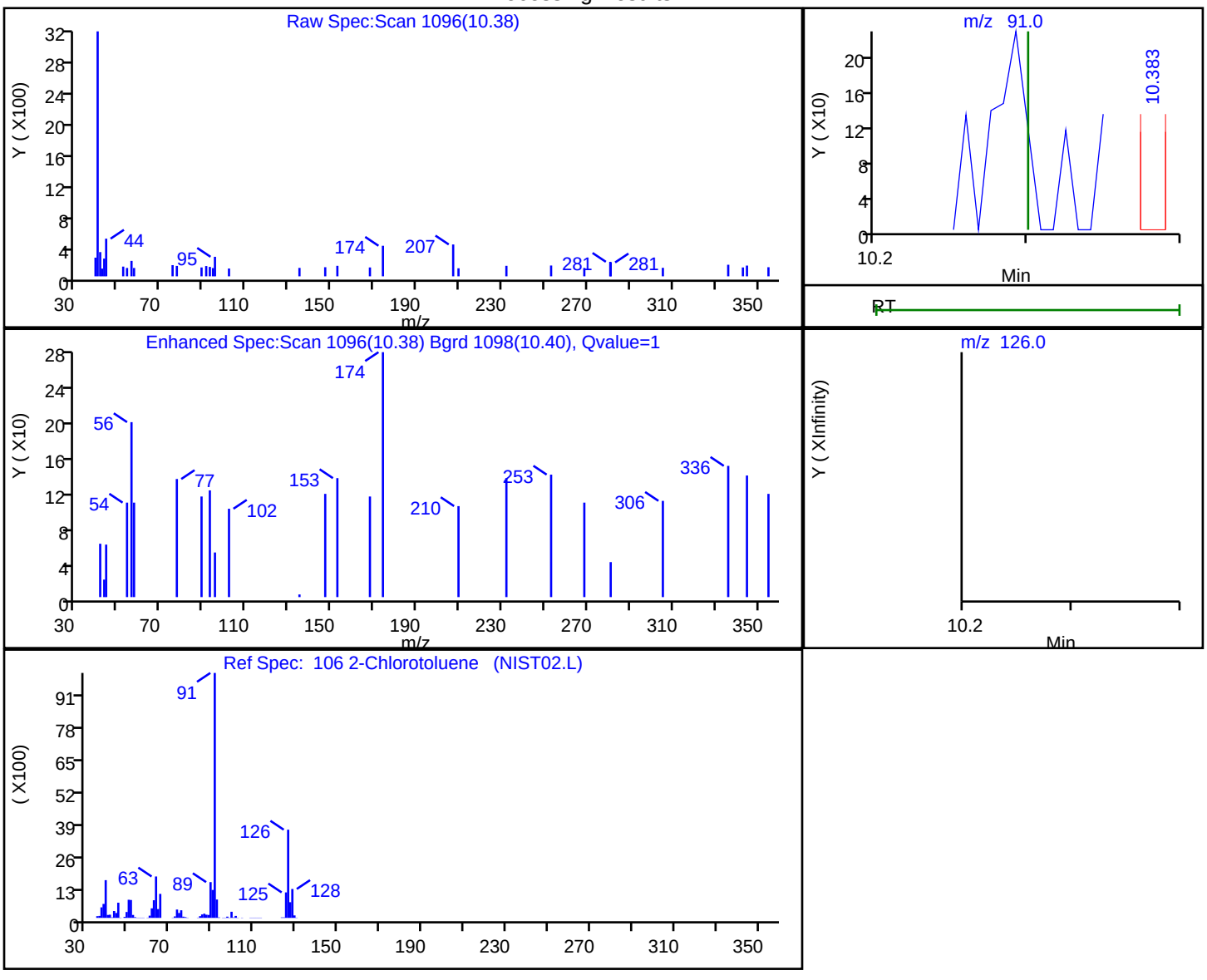
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

106 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
10.38	91.00	66	0.003433
10.39	126.00	95	

Reviewer: boykink, 05-Jun-2018 05:33:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

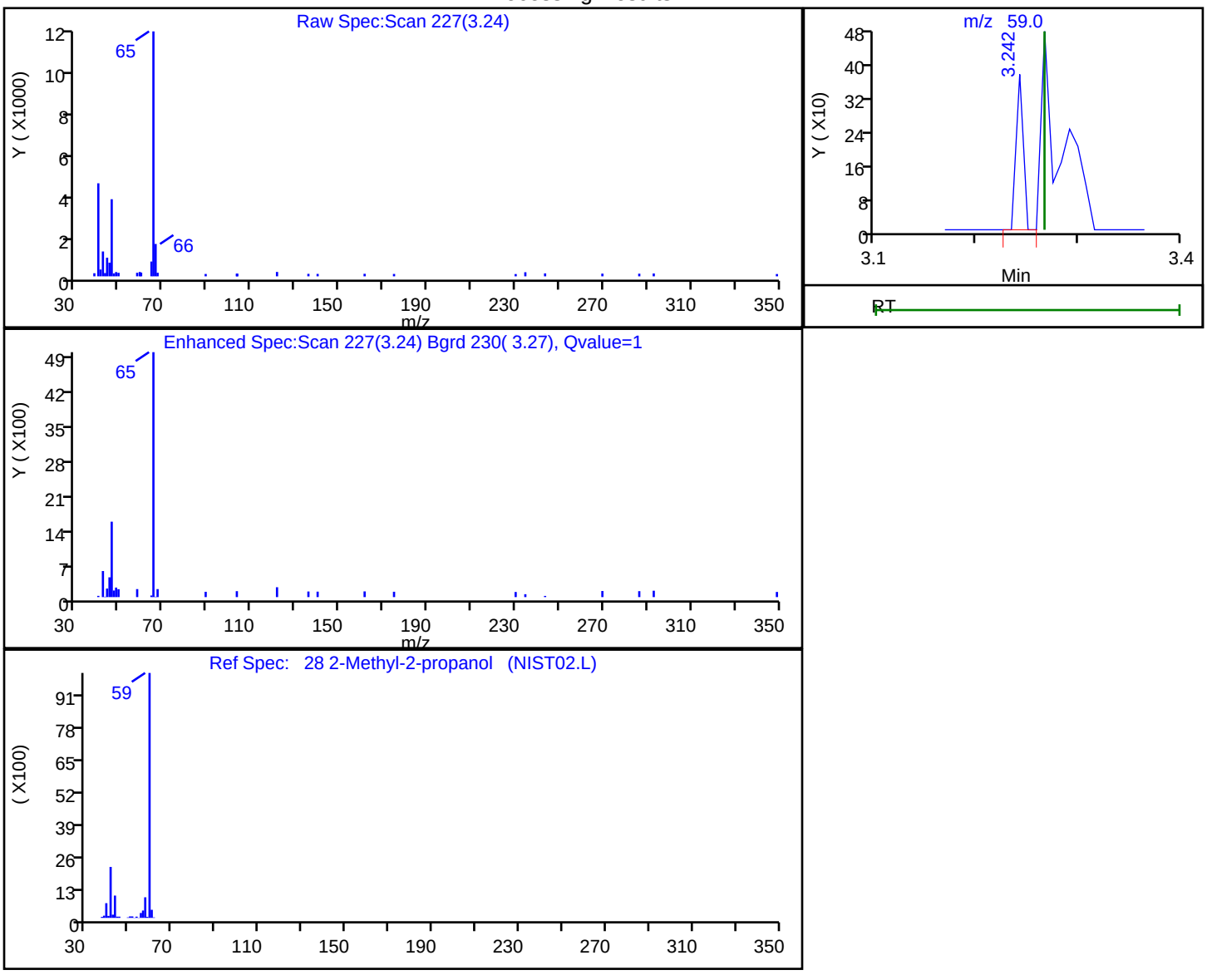
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results



RT	Mass	Response	Amount
3.24	59.00	182	0.475592

Reviewer: boykink, 05-Jun-2018 05:33:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

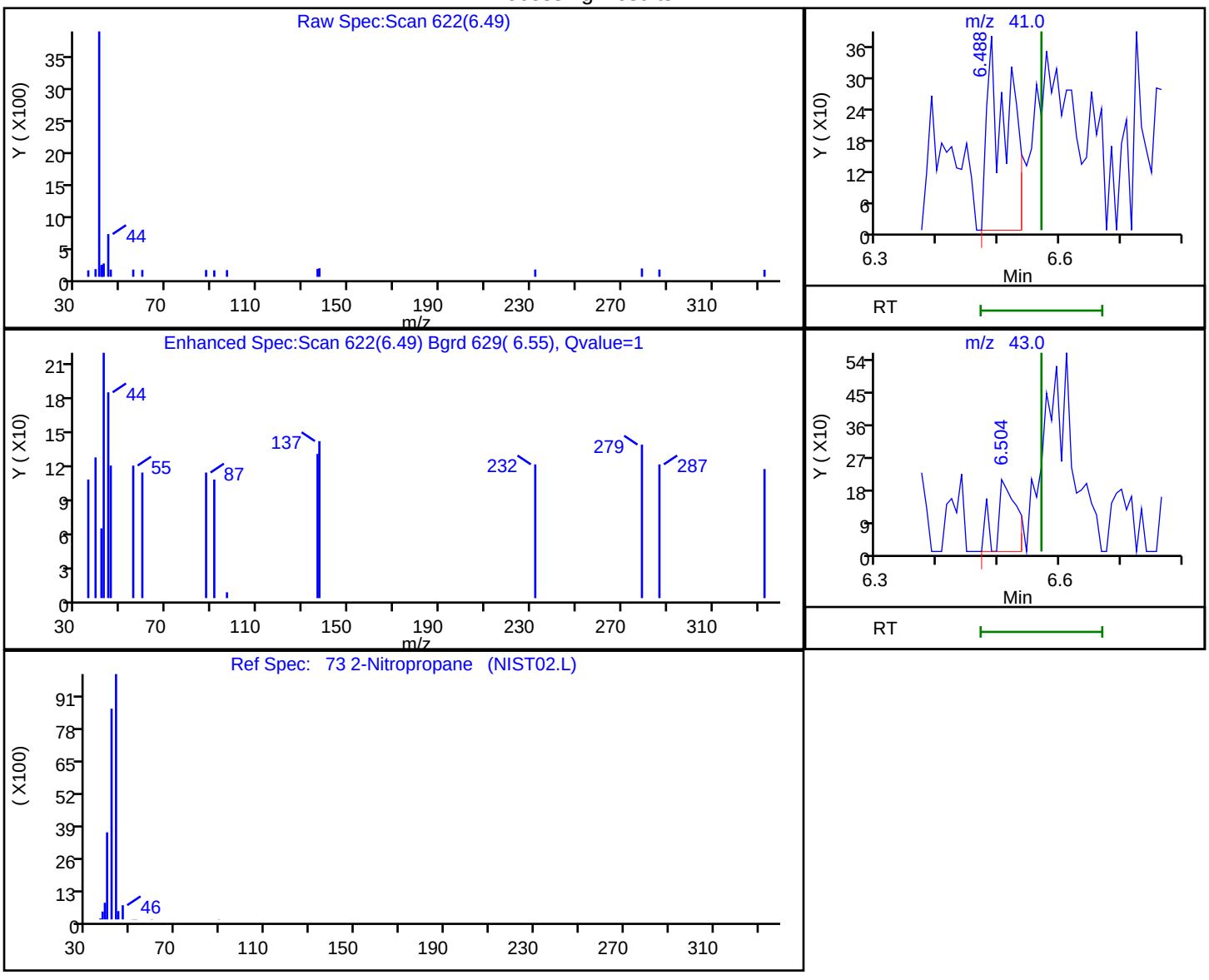
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

73 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
6.49	41.00	896	1.003778
6.50	43.00	440	

Reviewer: boykink, 05-Jun-2018 05:33:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

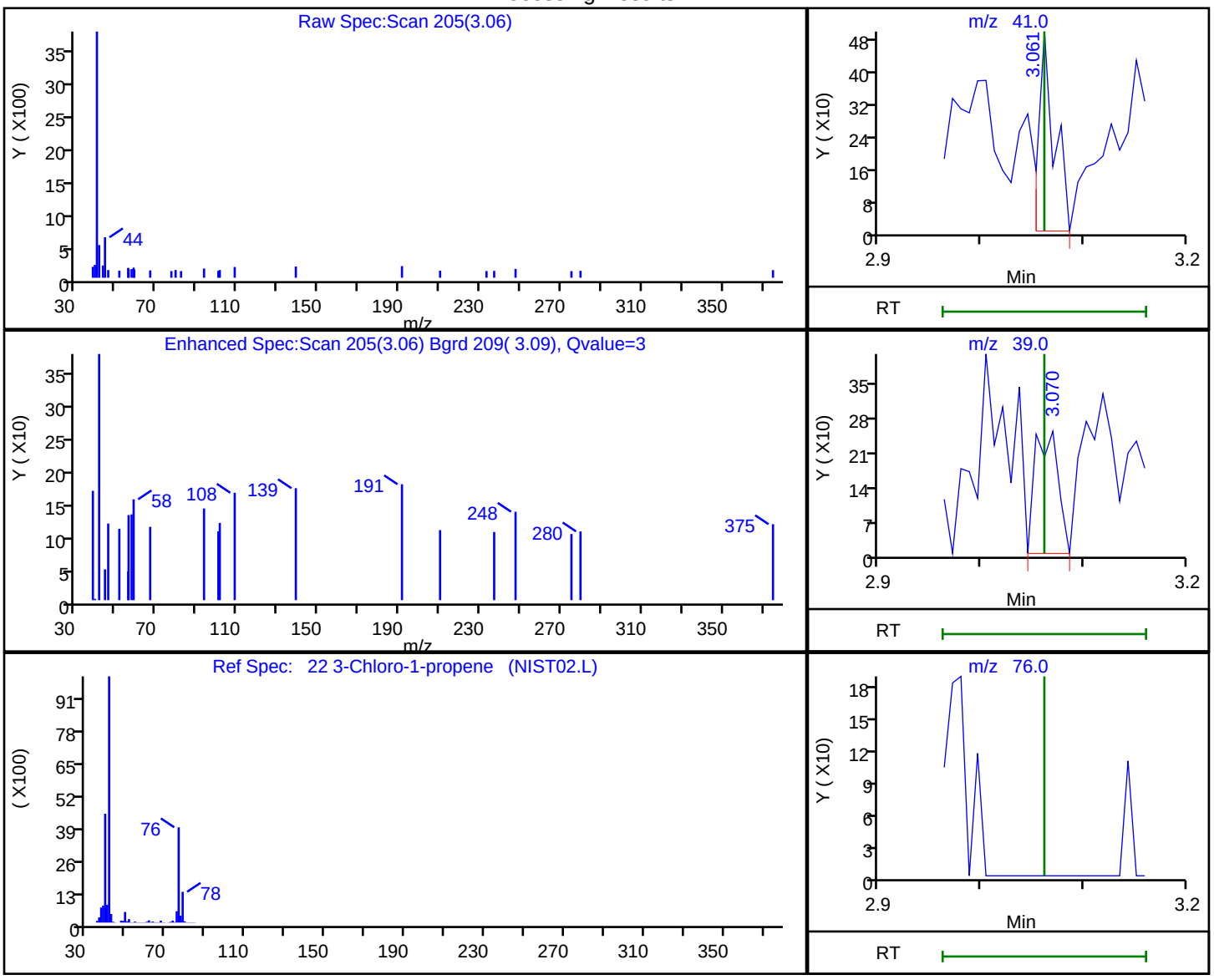
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.06	41.00	529	0.049436
3.07	39.00	390	
3.06	76.00	0	

Reviewer: boykink, 05-Jun-2018 05:33:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

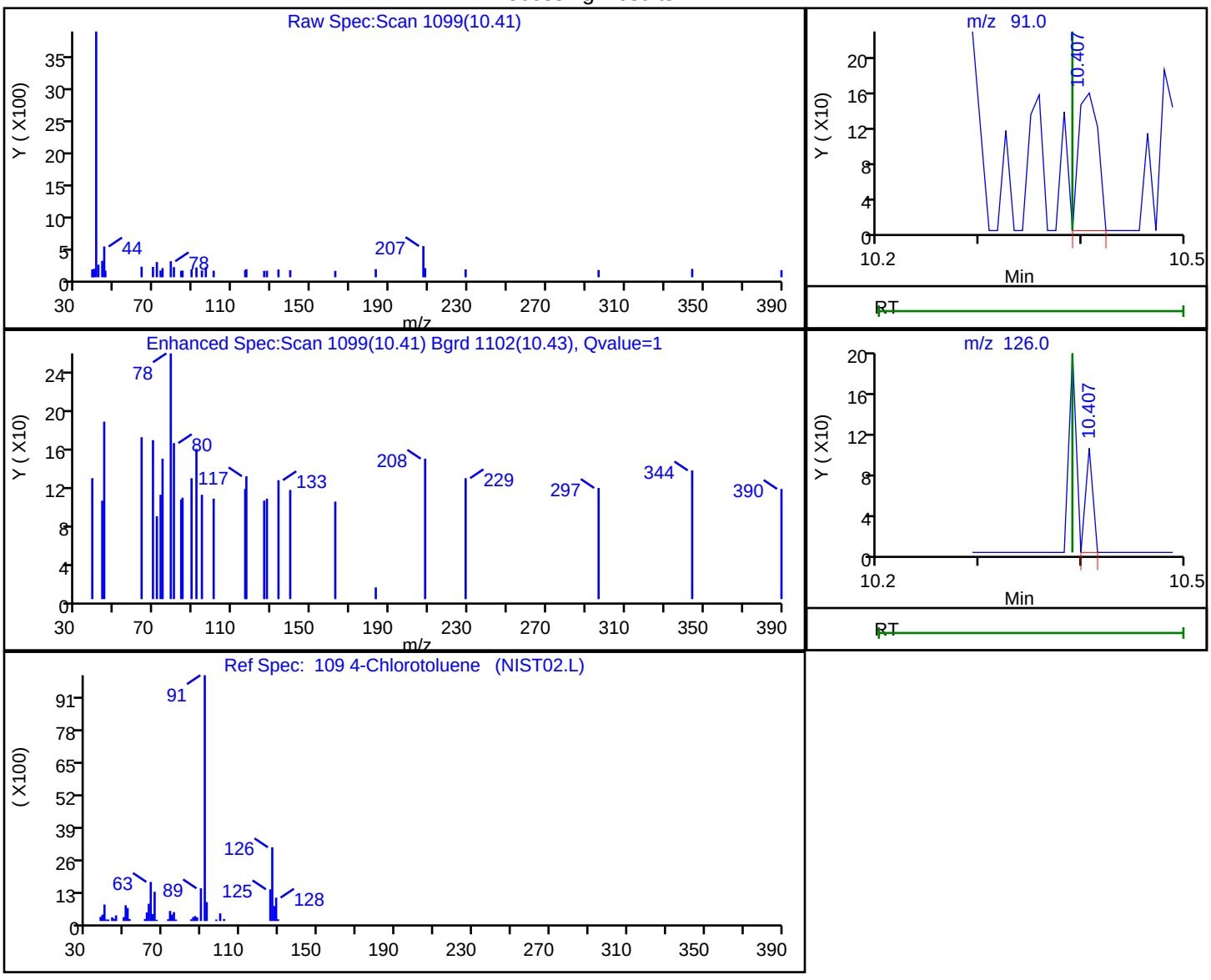
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

109 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
10.41	91.00	203	0.012279
10.41	126.00	50	

Reviewer: boykink, 05-Jun-2018 05:33:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

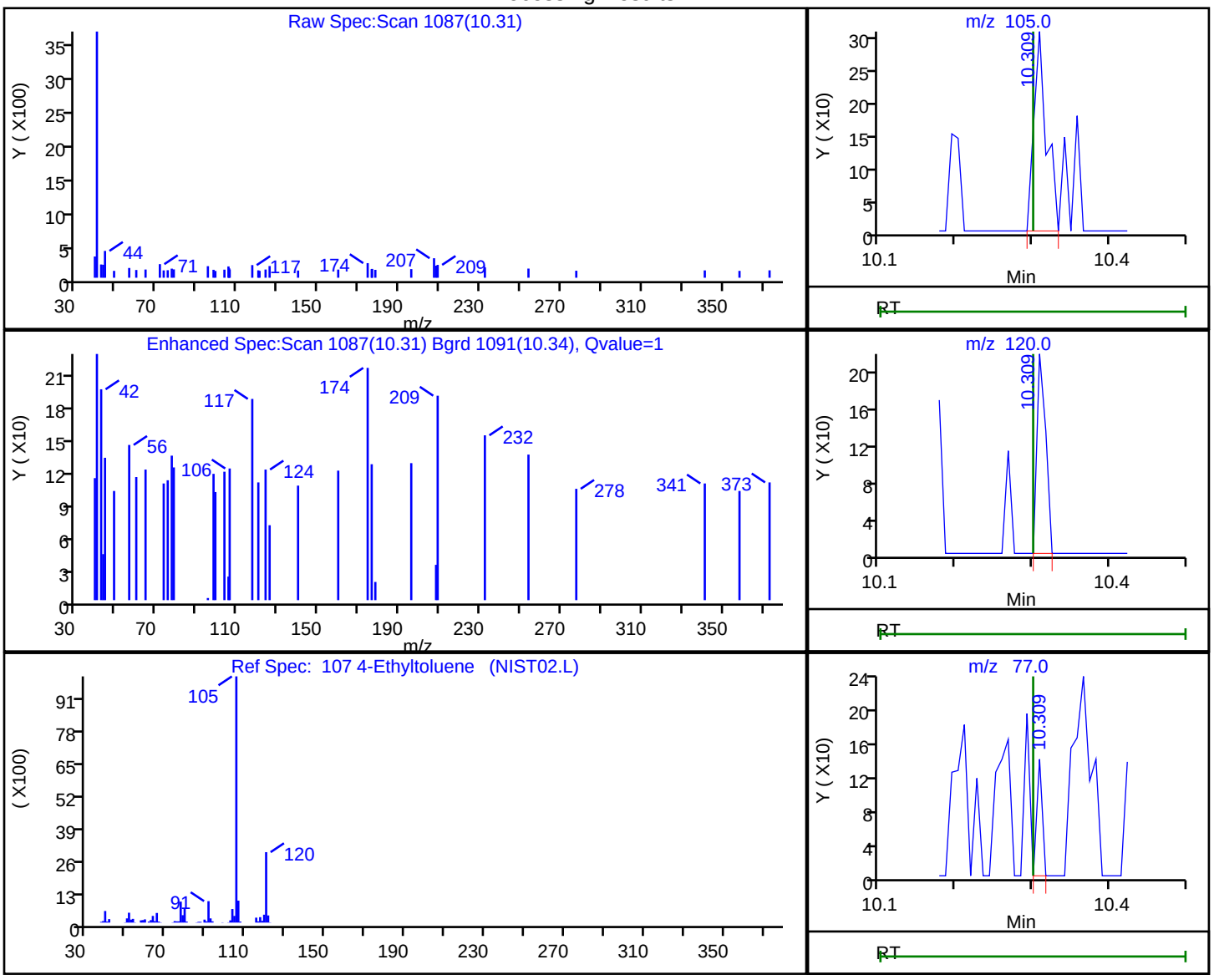
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

107 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
10.31	105.00	356	0.015807
10.31	120.00	169	
10.31	77.00	67	

Reviewer: boykink, 05-Jun-2018 05:33:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

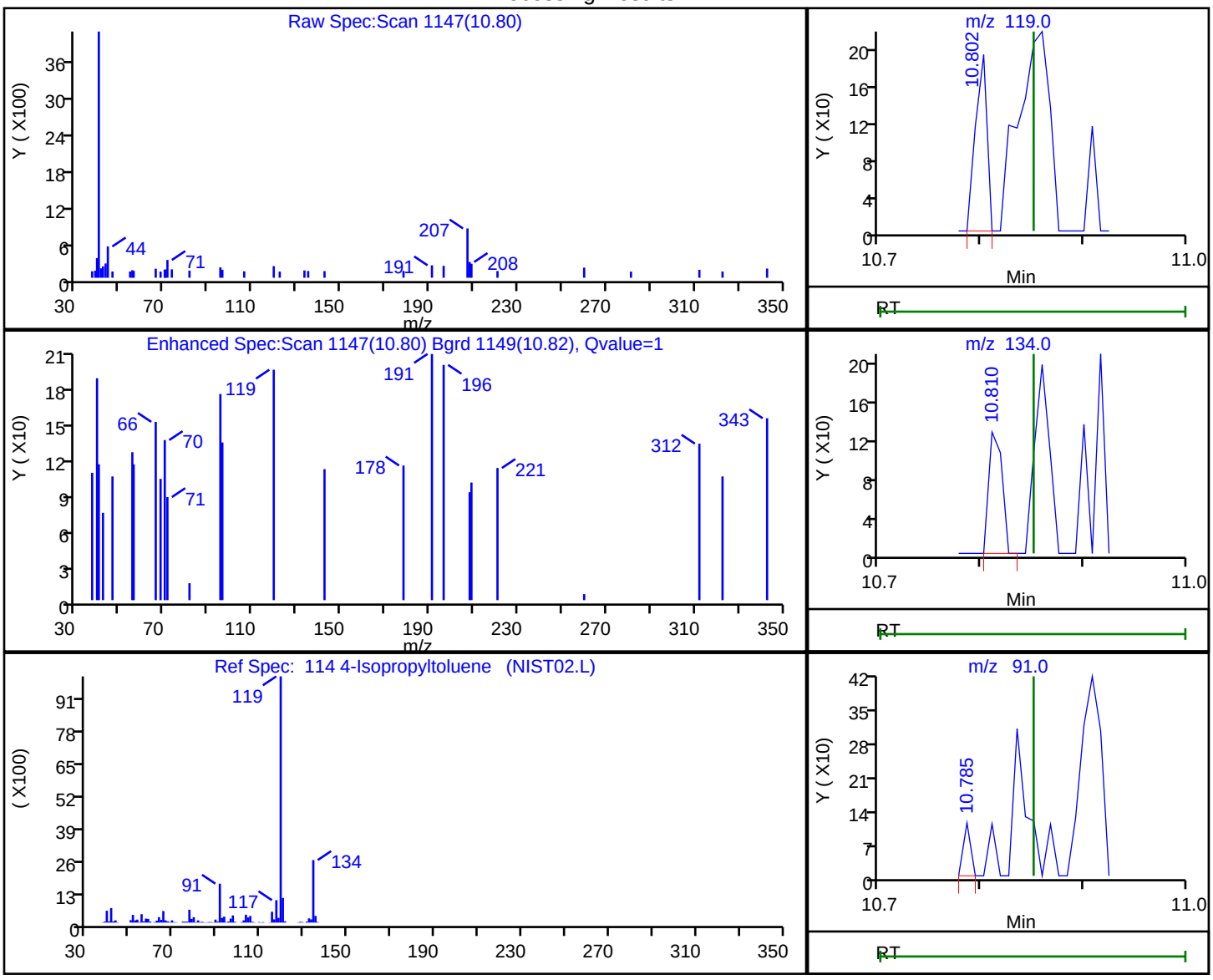
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

114 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
10.80	119.00	149	0.007284
10.81	134.00	112	
10.79	91.00	54	

Reviewer: boykink, 05-Jun-2018 05:33:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

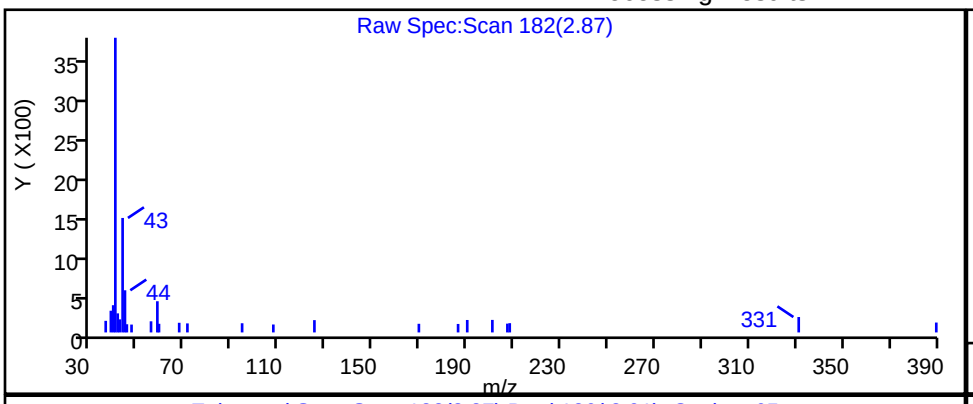
User Disabled Compound Report

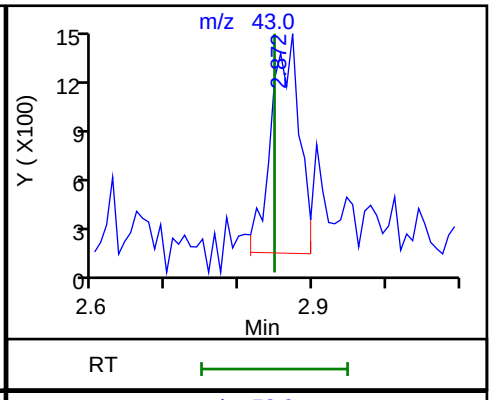
TestAmerica Edison

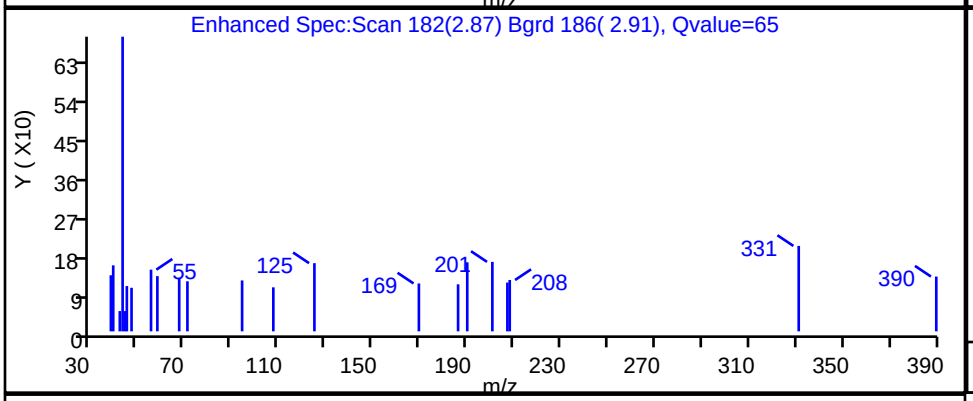
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

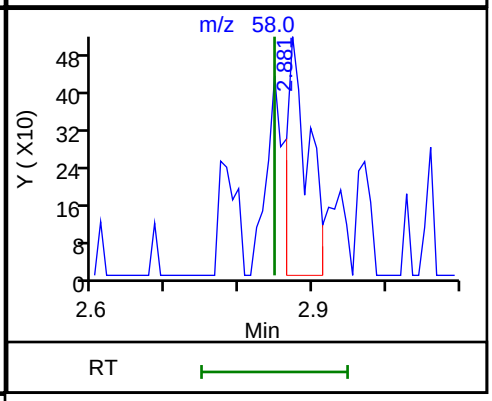
18 Acetone, CAS: 67-64-1

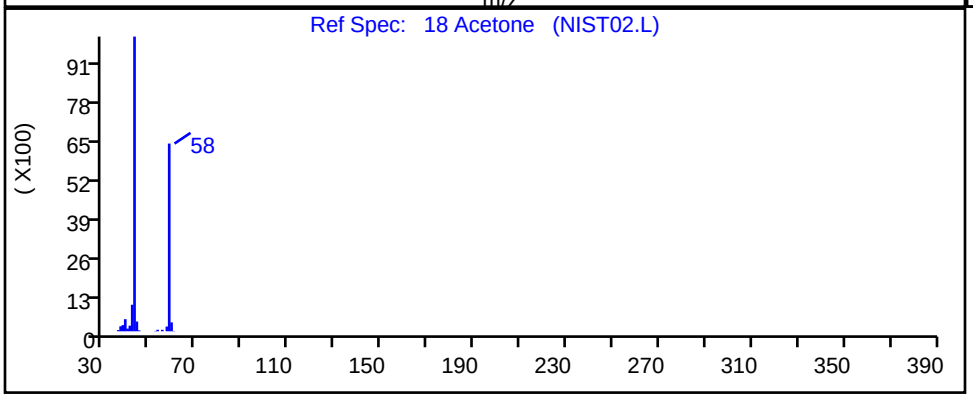
Processing Results











RT	Mass	Response	Amount
2.87	43.00	3627	3.138827
2.88	58.00	1022	

Reviewer: boykink, 05-Jun-2018 05:33:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

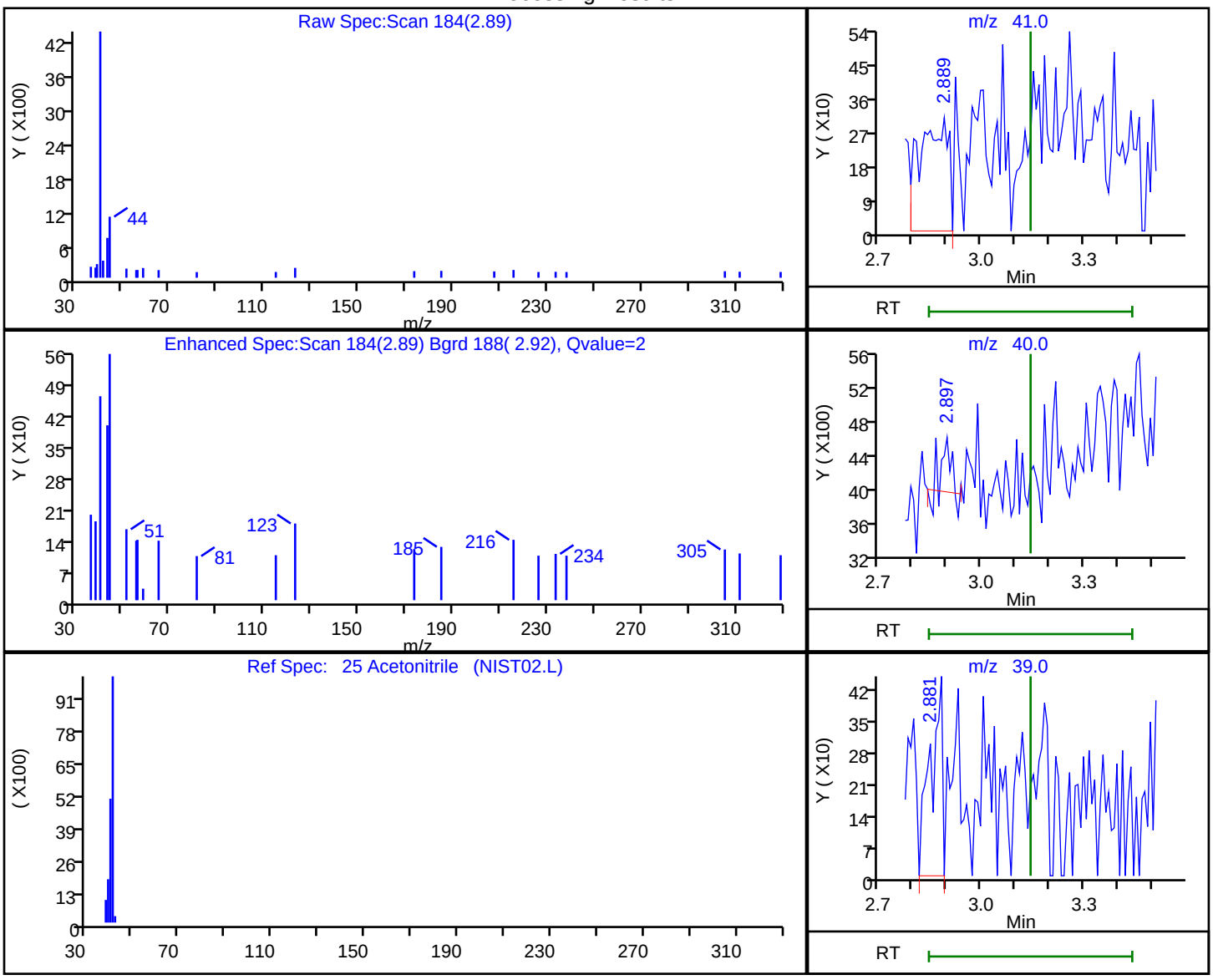
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.89	41.00	1729	2.965978
2.90	40.00	905	
2.88	39.00	1083	
2.89	38.00	584	

Reviewer: boykink, 05-Jun-2018 05:33:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

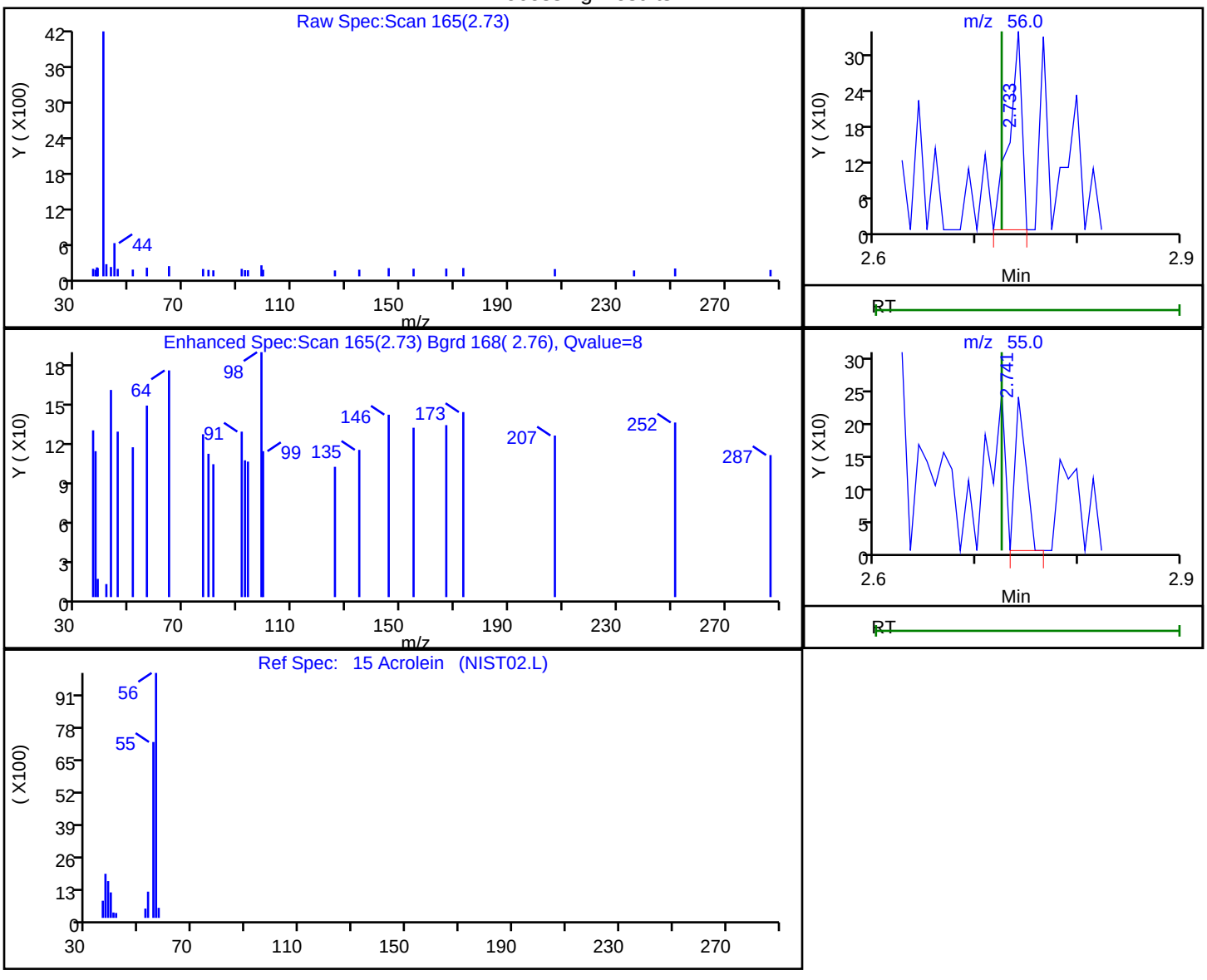
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.73	56.00	293	0.563527
2.74	55.00	176	

Reviewer: boykink, 05-Jun-2018 05:33:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

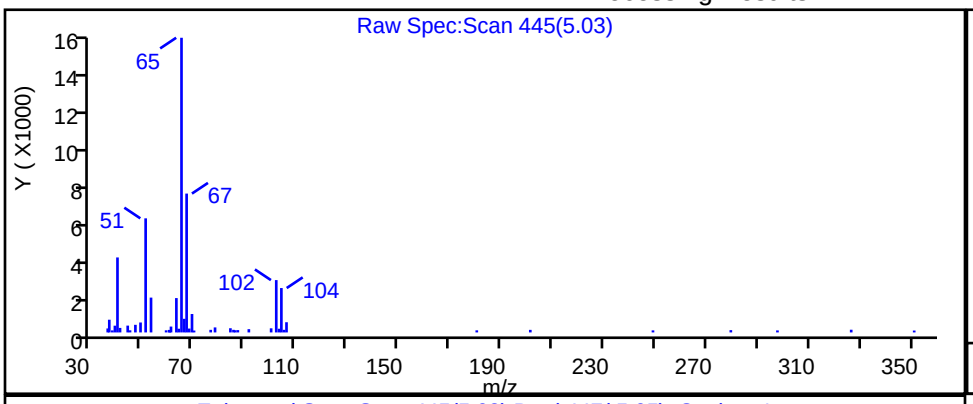
User Disabled Compound Report

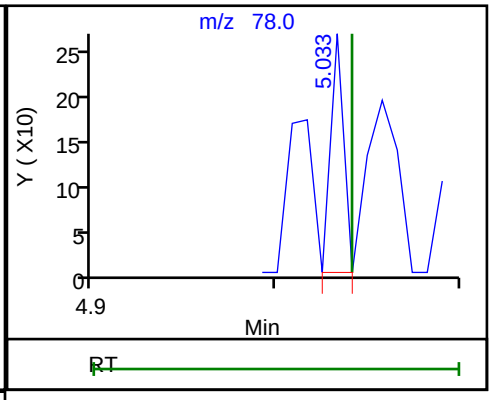
TestAmerica Edison

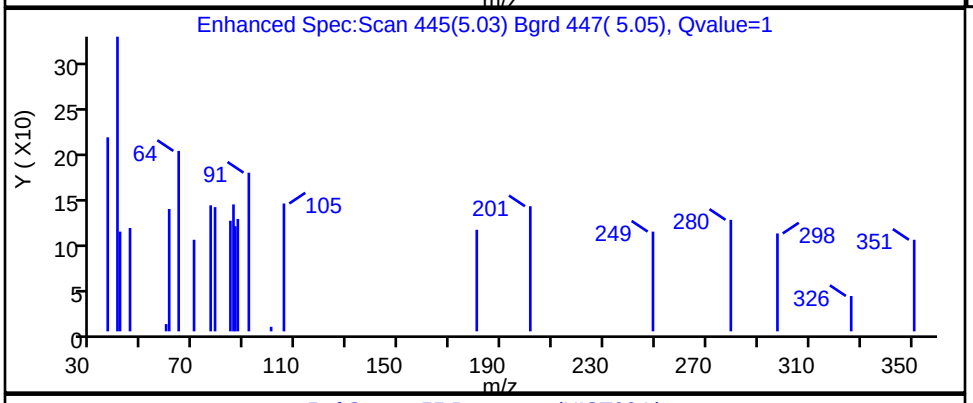
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D		
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

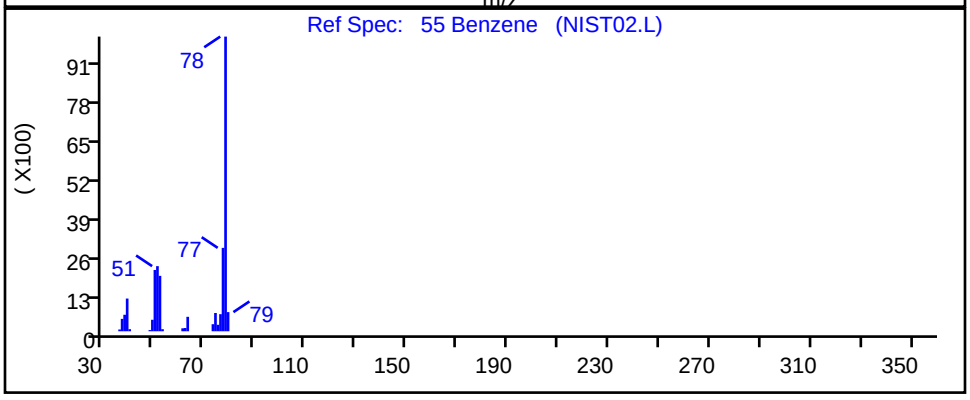
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
5.03	78.00	133	0.006036

Reviewer: boykink, 05-Jun-2018 05:33:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

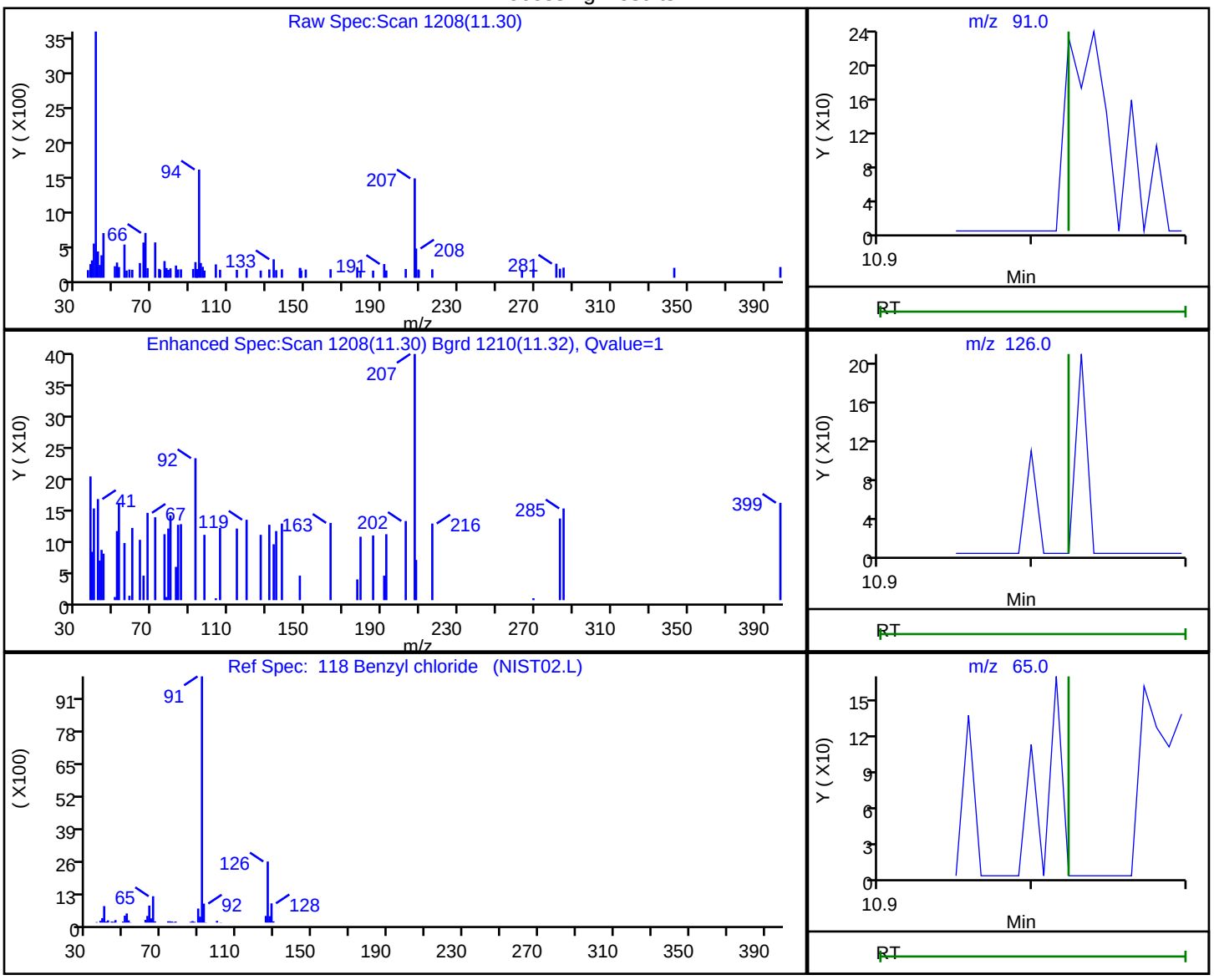
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
11.30	91.00	176	0.018100
11.29	126.00	111	
11.31	65.00	1301	

Reviewer: boykink, 05-Jun-2018 05:33:44
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

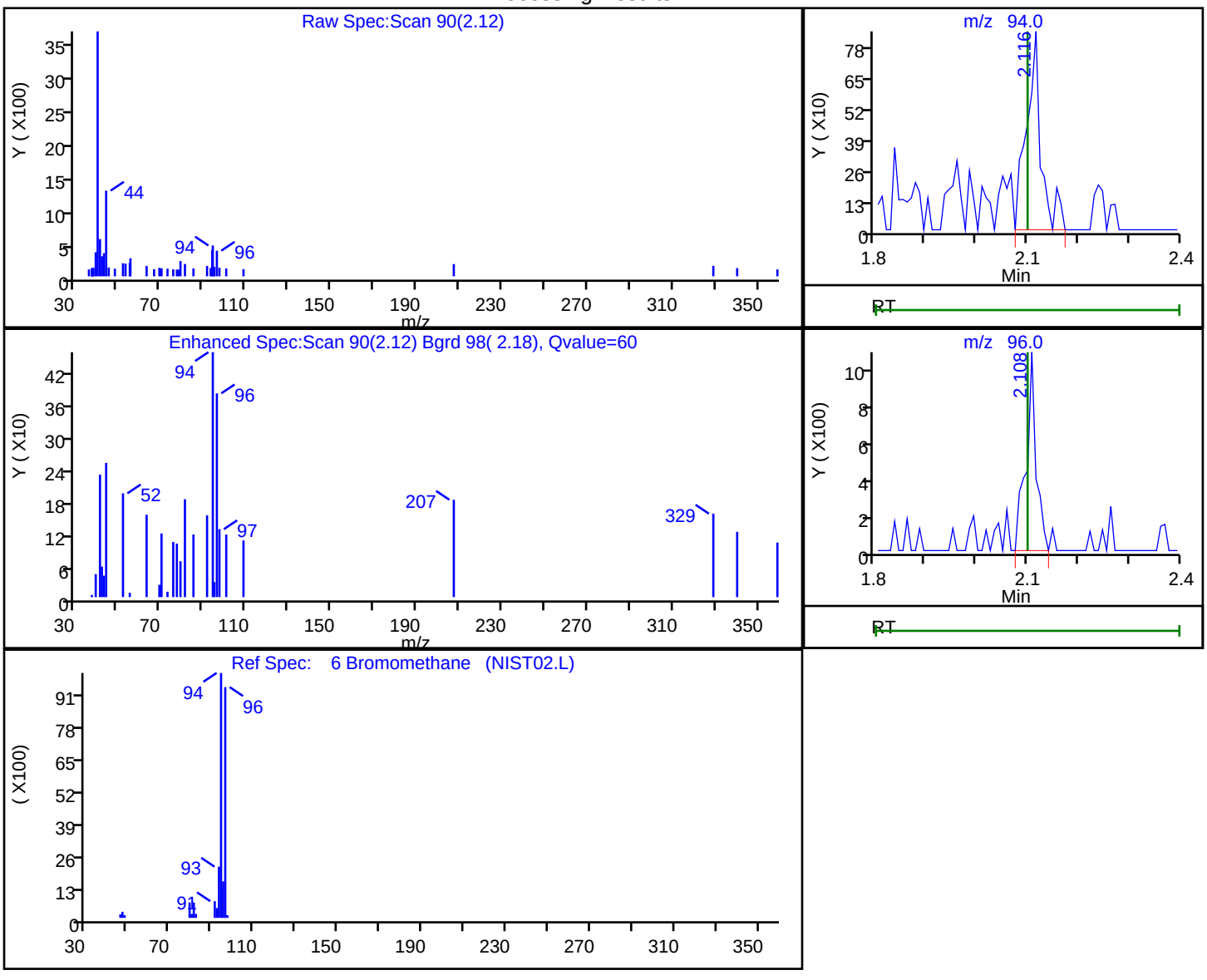
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.12	94.00	1696	0.250000
2.11	96.00	1464	

Reviewer: boykink, 05-Jun-2018 03:01:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

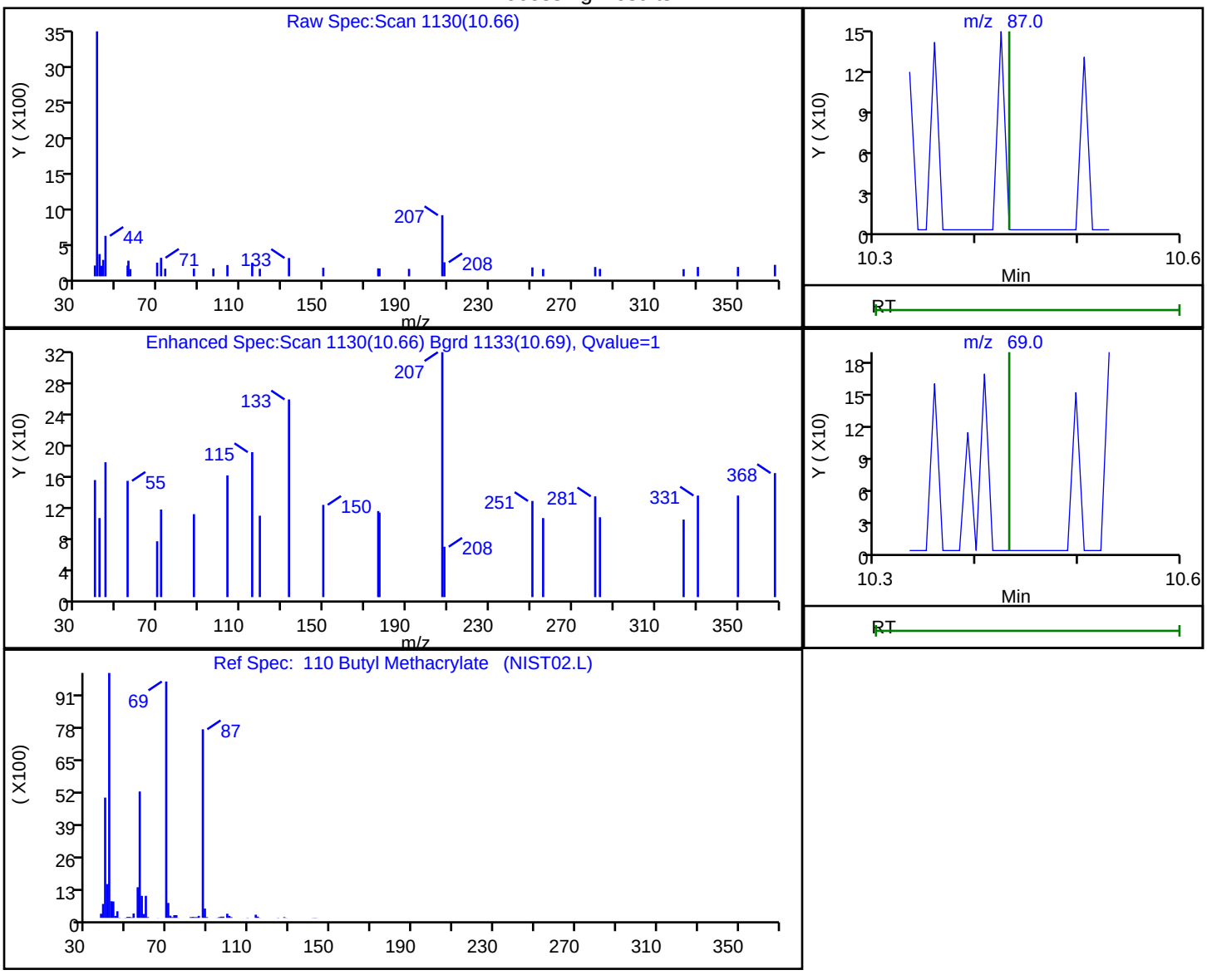
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

110 Butyl Methacrylate, CAS: 97-88-1

Processing Results



RT	Mass	Response	Amount
10.66	87.00	53	0.008763
10.66	69.00	280	

Reviewer: boykink, 05-Jun-2018 05:33:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

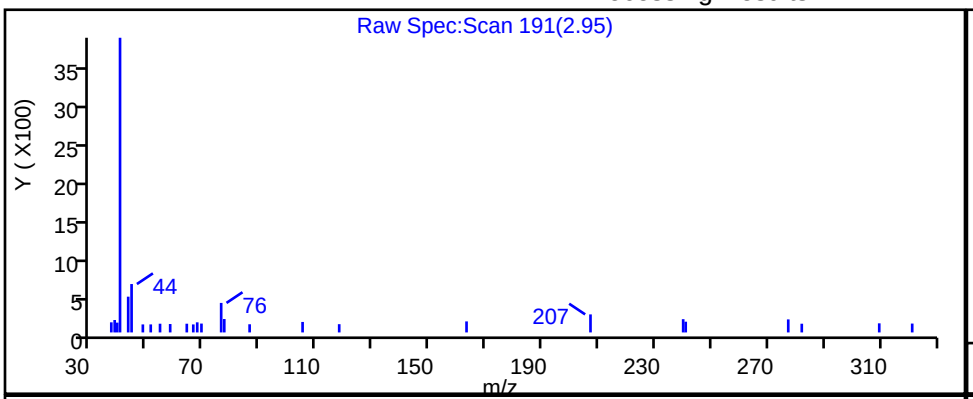
User Disabled Compound Report

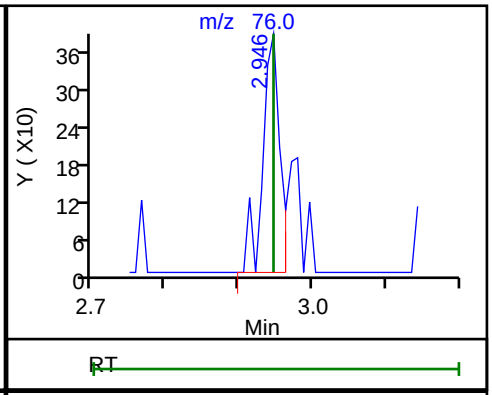
TestAmerica Edison

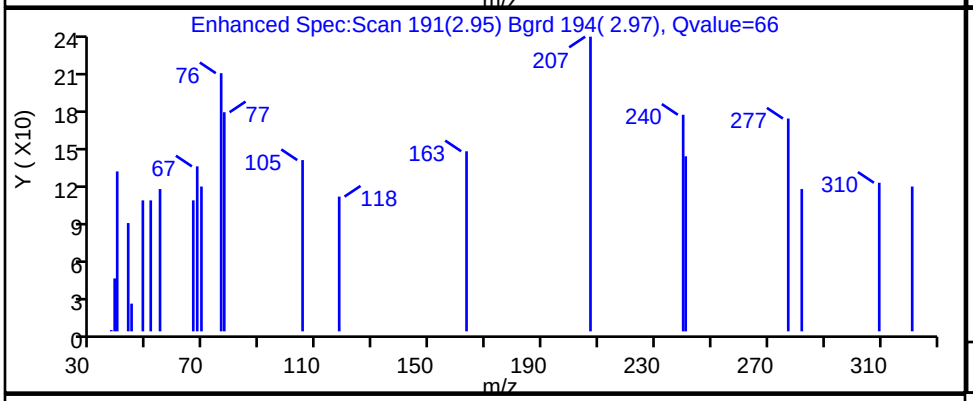
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

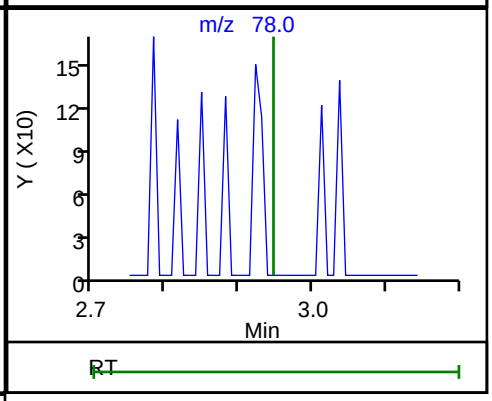
21 Carbon disulfide, CAS: 75-15-0

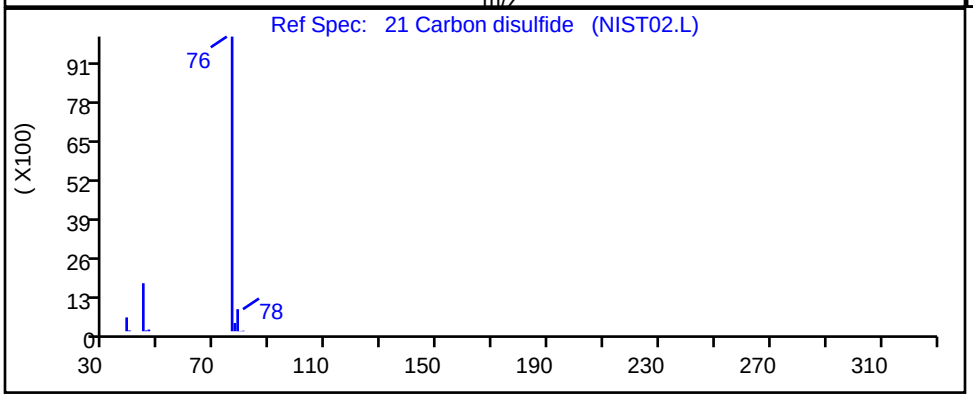
Processing Results











RT	Mass	Response	Amount
2.95	76.00	626	0.031184
2.95	78.00	0	

Reviewer: boykink, 05-Jun-2018 05:33:10

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

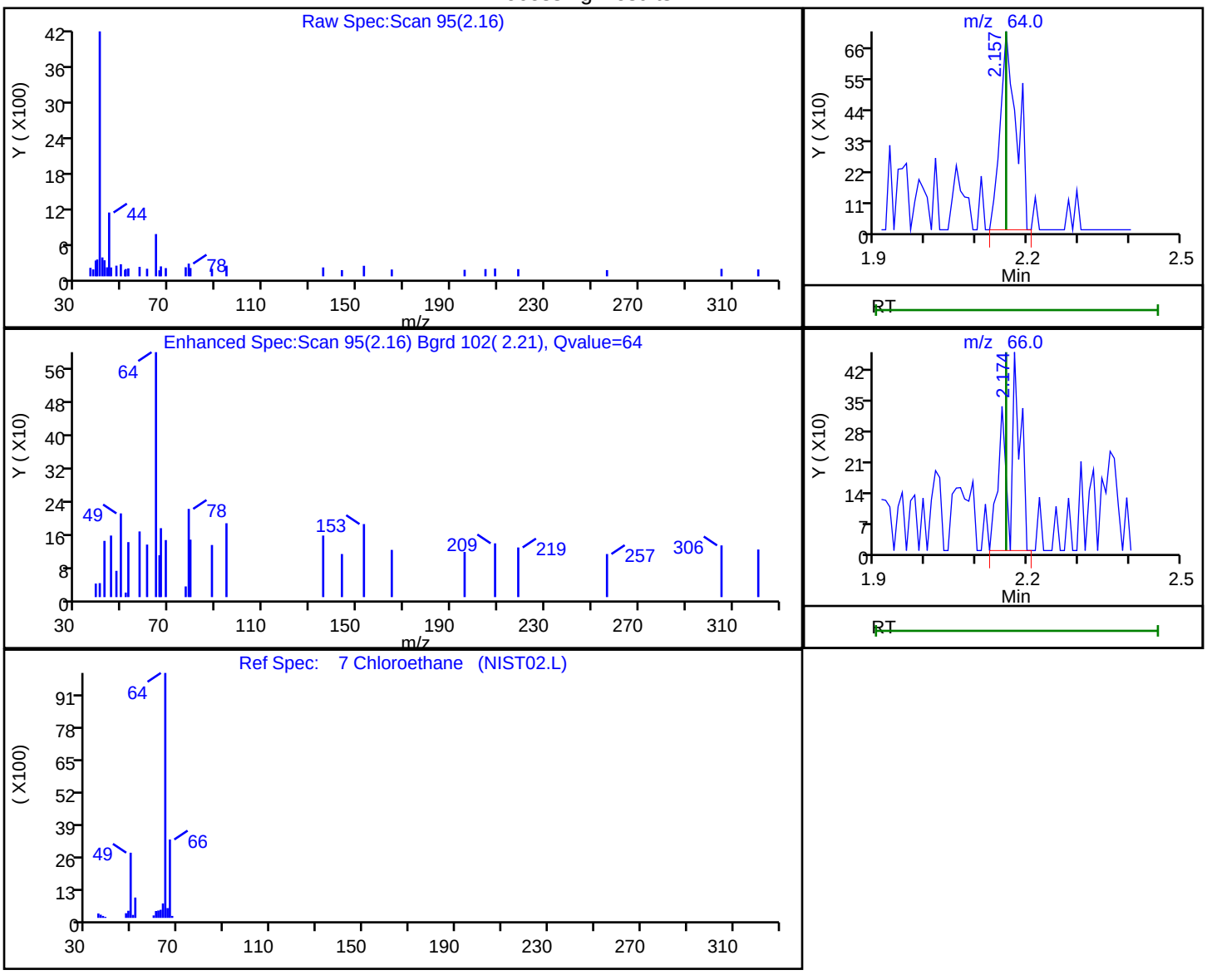
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.16	64.00	1617	0.250000
2.17	66.00	853	

Reviewer: boykink, 05-Jun-2018 03:01:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

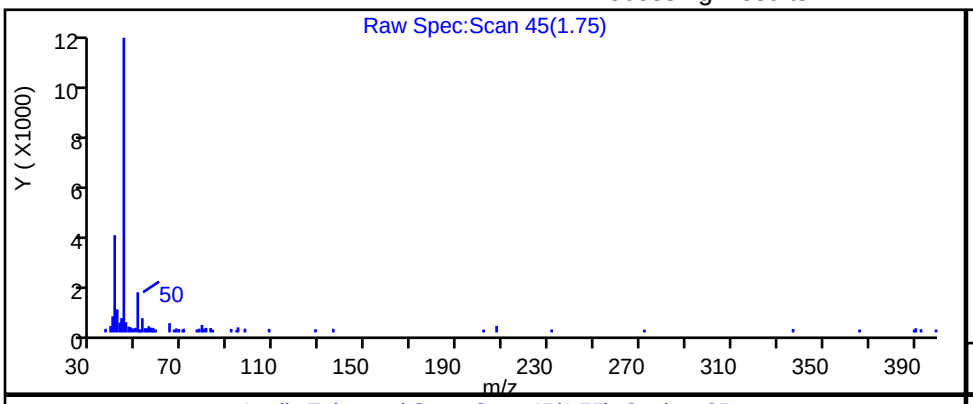
User Disabled Compound Report

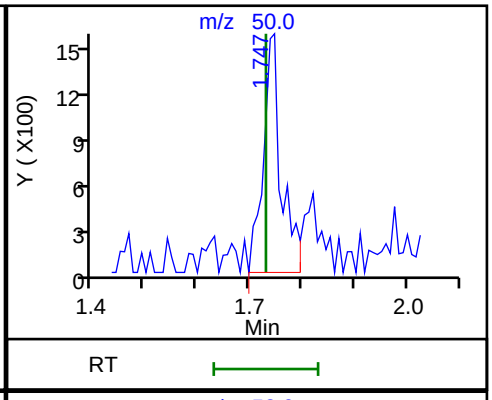
TestAmerica Edison

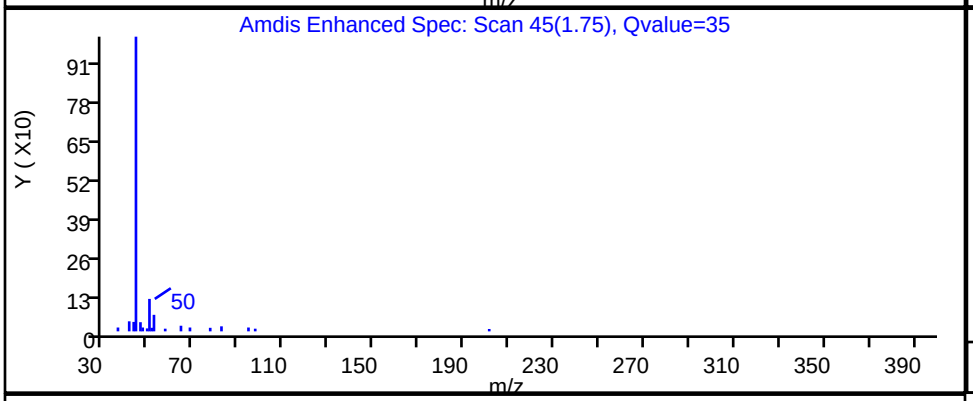
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

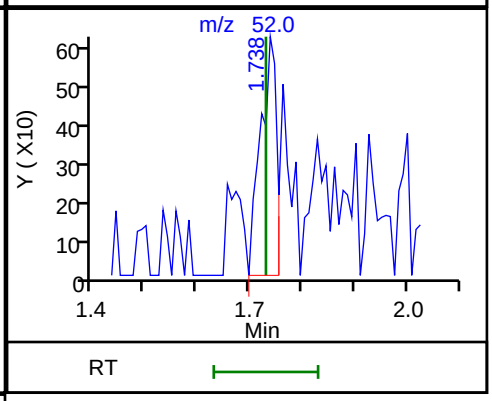
3 Chloromethane, CAS: 74-87-3

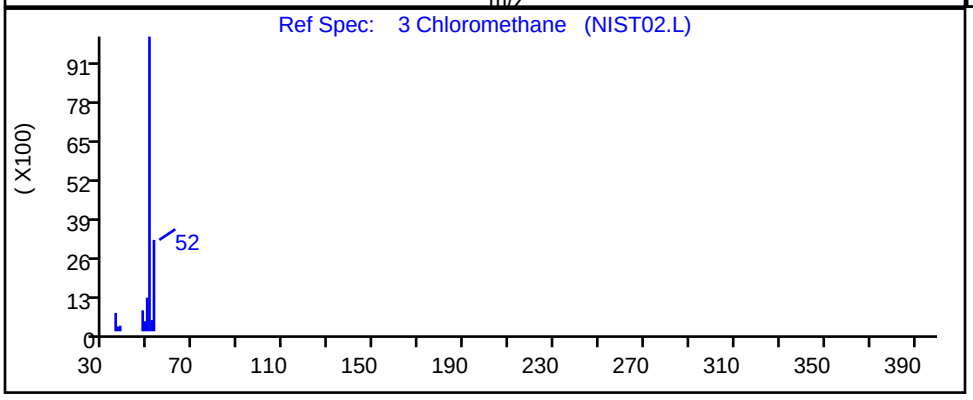
Processing Results











RT	Mass	Response	Amount
1.75	50.00	3748	0.250000
1.74	52.00	1341	

Reviewer: boykink, 05-Jun-2018 03:01:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

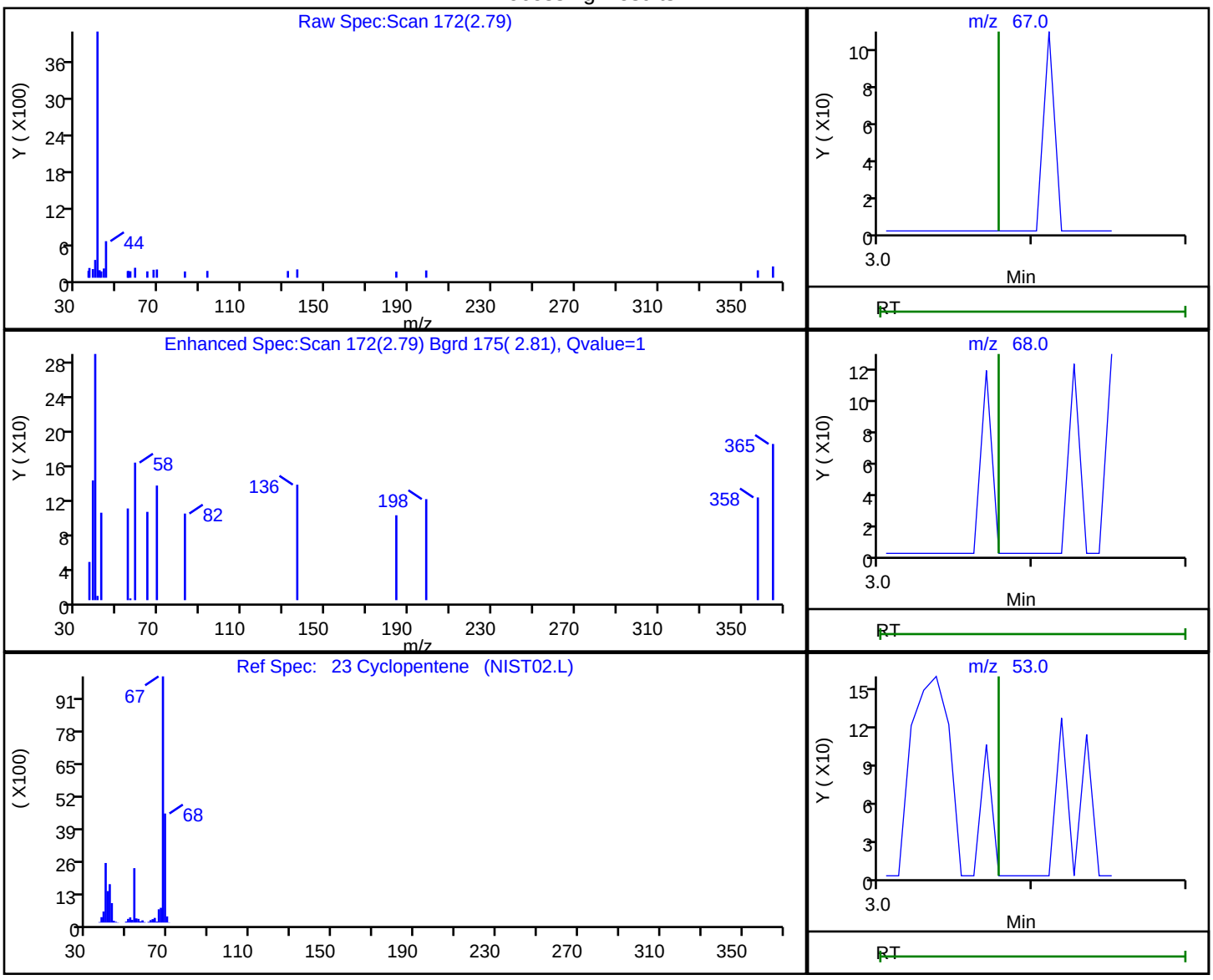
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
2.79	67.00	118	0.009051
2.79	68.00	67	
2.81	53.00	59	

Reviewer: boykink, 05-Jun-2018 05:33:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

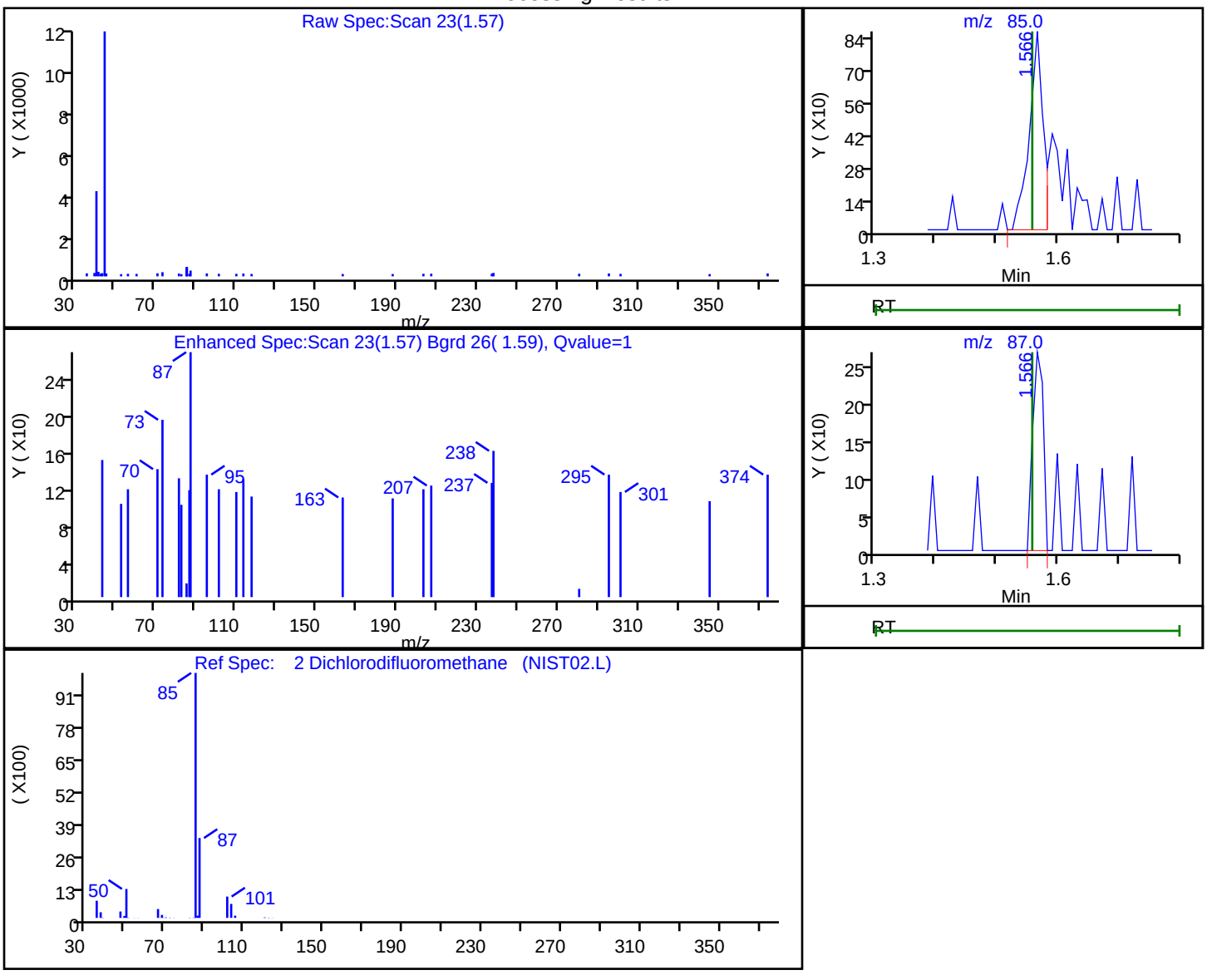
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.57	85.00	1381	0.250000
1.57	87.00	322	

Reviewer: boykink, 05-Jun-2018 03:01:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

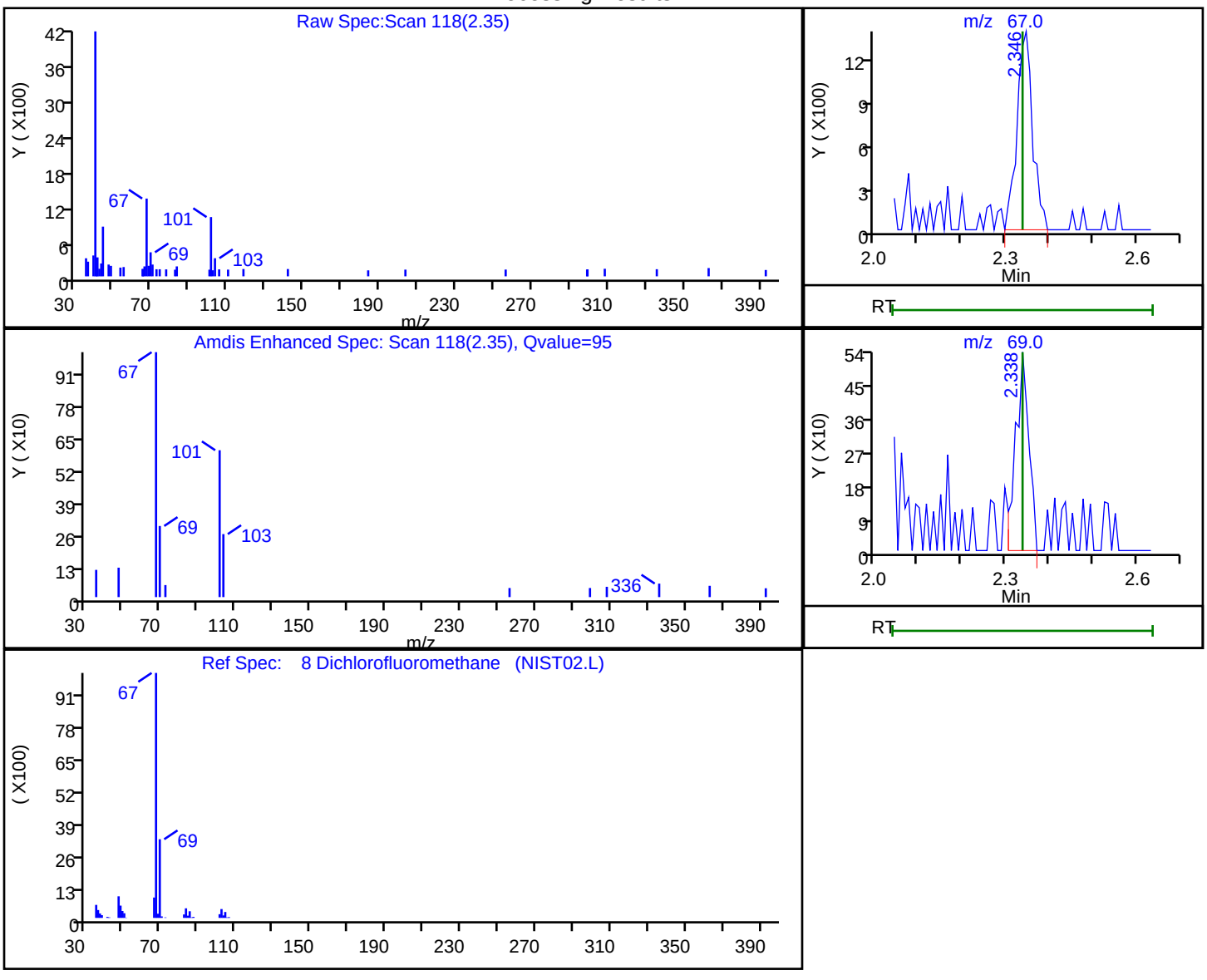
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D				
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.35	67.00	3262	0.250000
2.34	69.00	1121	

Reviewer: boykink, 05-Jun-2018 03:01:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

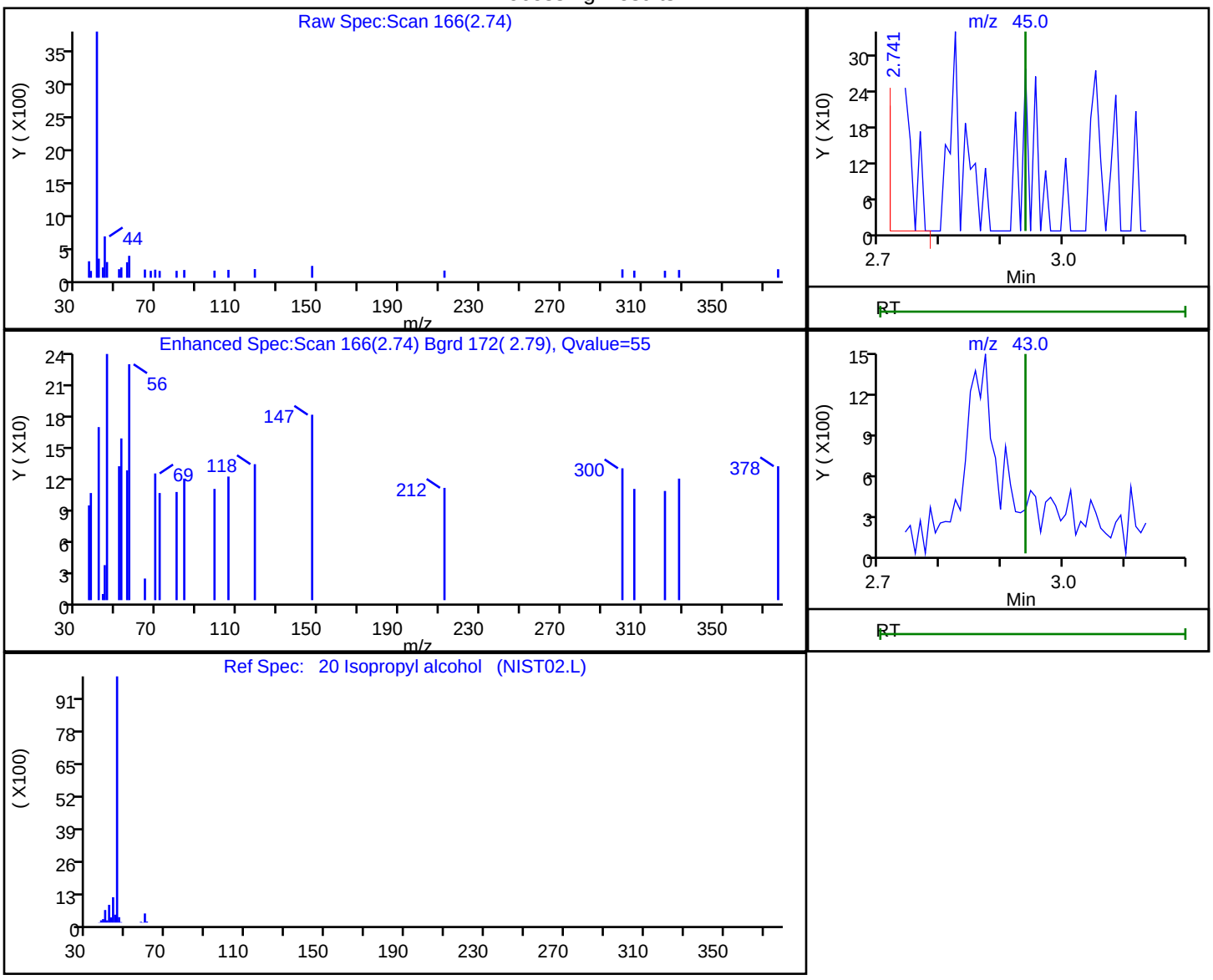
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D		
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
2.74	45.00	409	2.179081
2.78	43.00	1263	

Reviewer: boykink, 05-Jun-2018 05:33:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

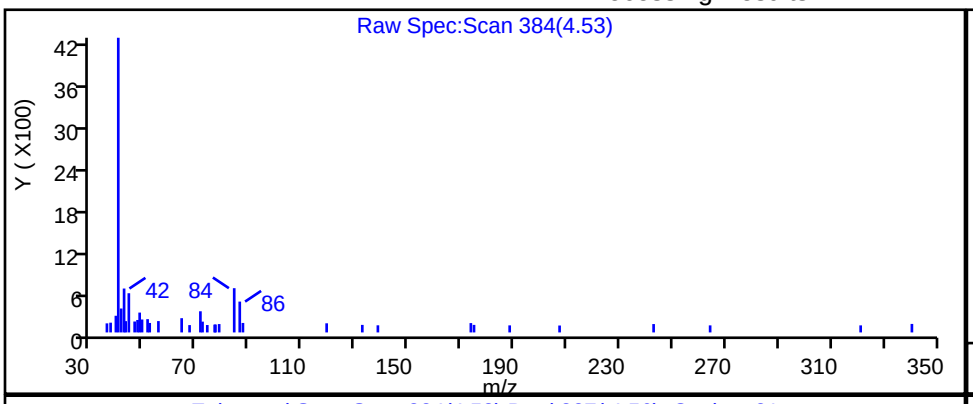
User Disabled Compound Report

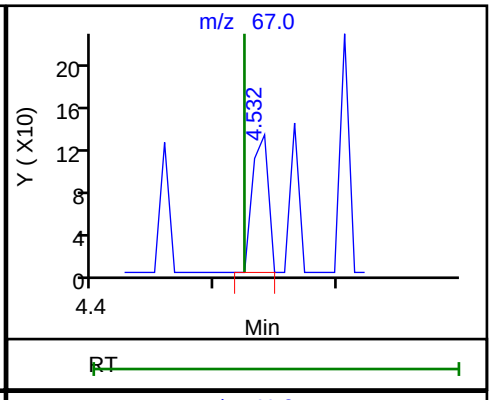
TestAmerica Edison

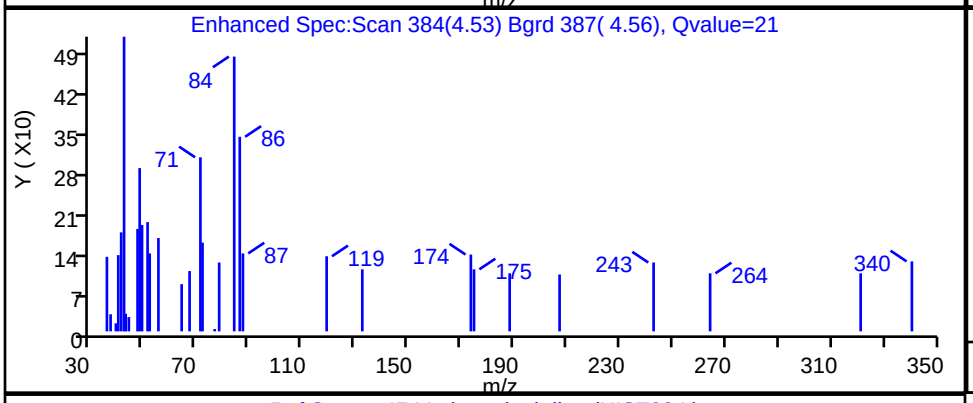
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

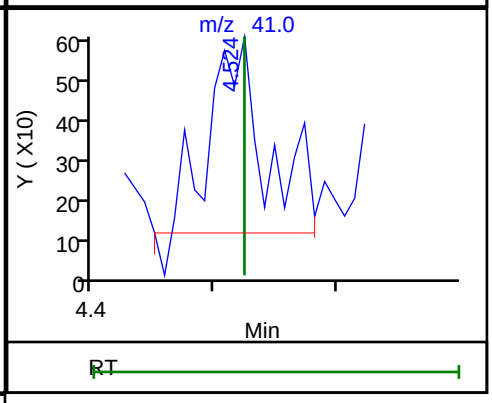
47 Methacrylonitrile, CAS: 126-98-7

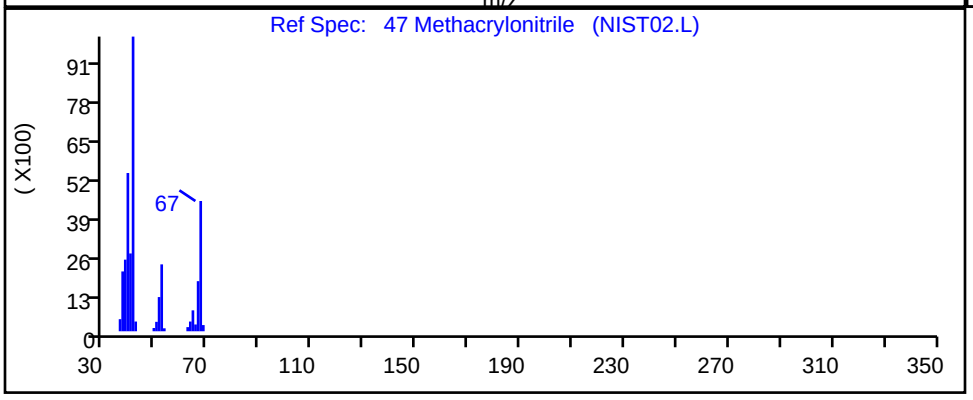
Processing Results











RT	Mass	Response	Amount
4.53	67.00	115	0.063071
4.52	41.00	1578	

Reviewer: boykink, 05-Jun-2018 05:33:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

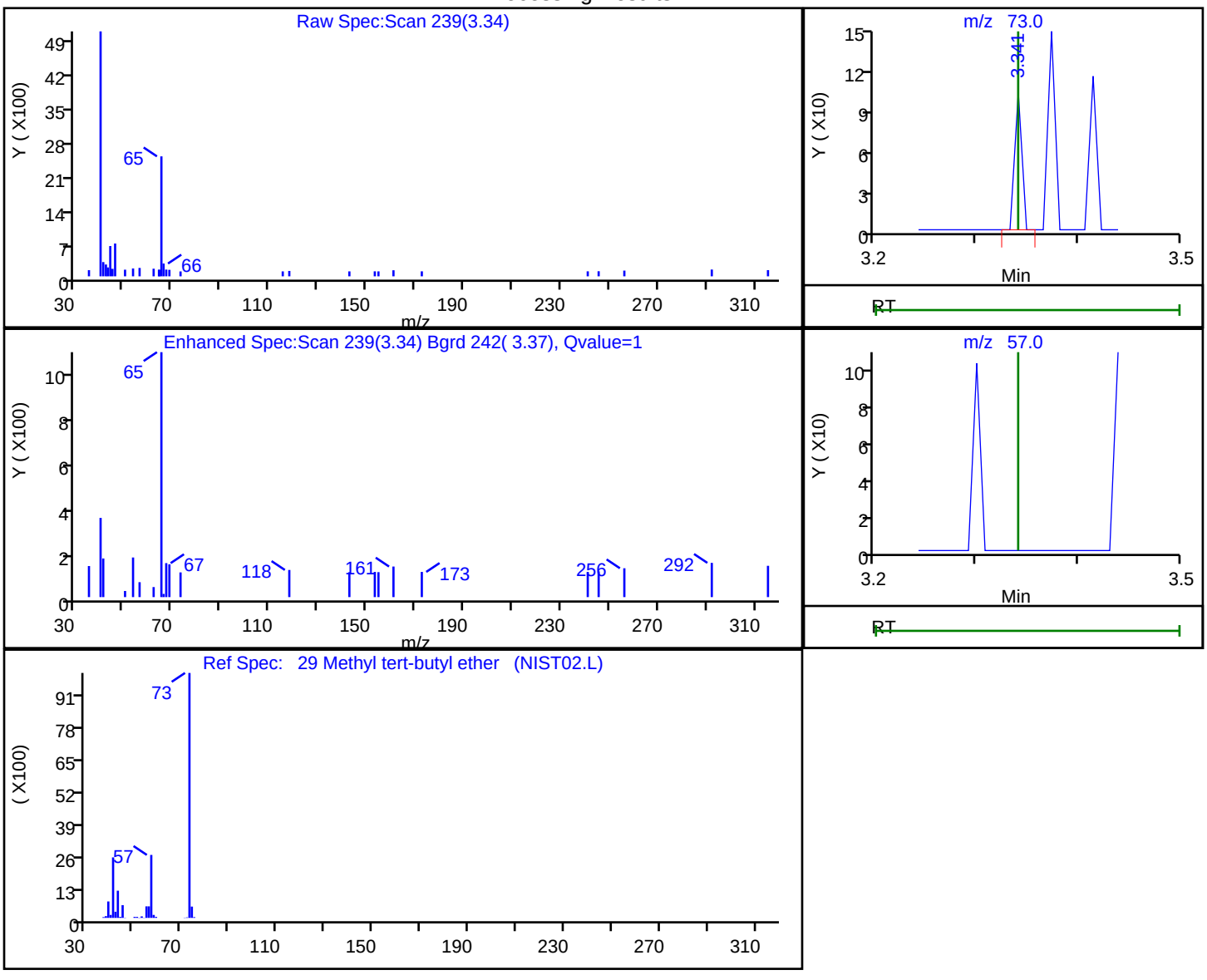
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
3.34	73.00	50	0.003325
3.34	57.00	0	

Reviewer: boykink, 05-Jun-2018 05:33:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

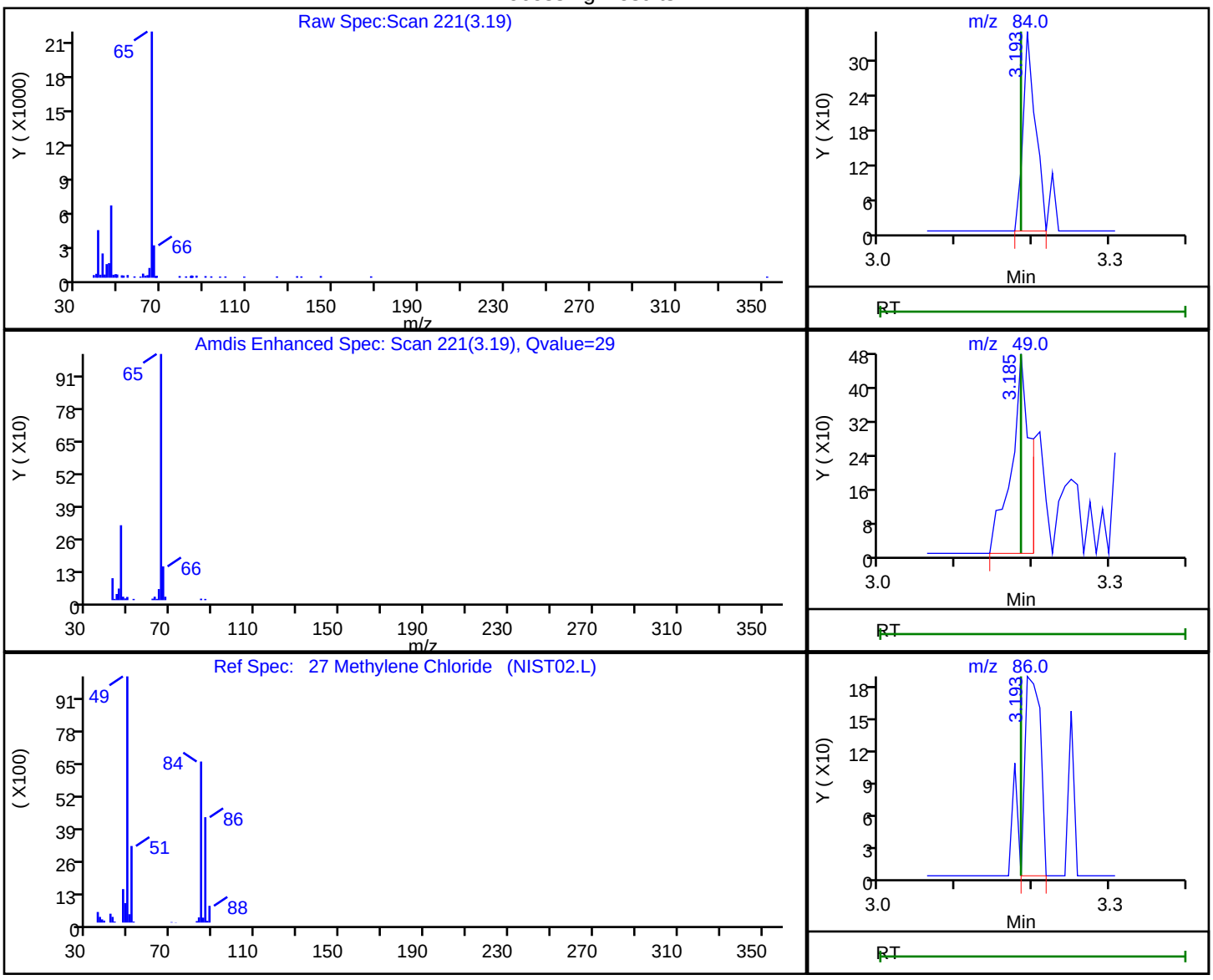
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.19	84.00	390	0.061735
3.18	49.00	810	
3.19	86.00	254	

Reviewer: boykink, 05-Jun-2018 05:33:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

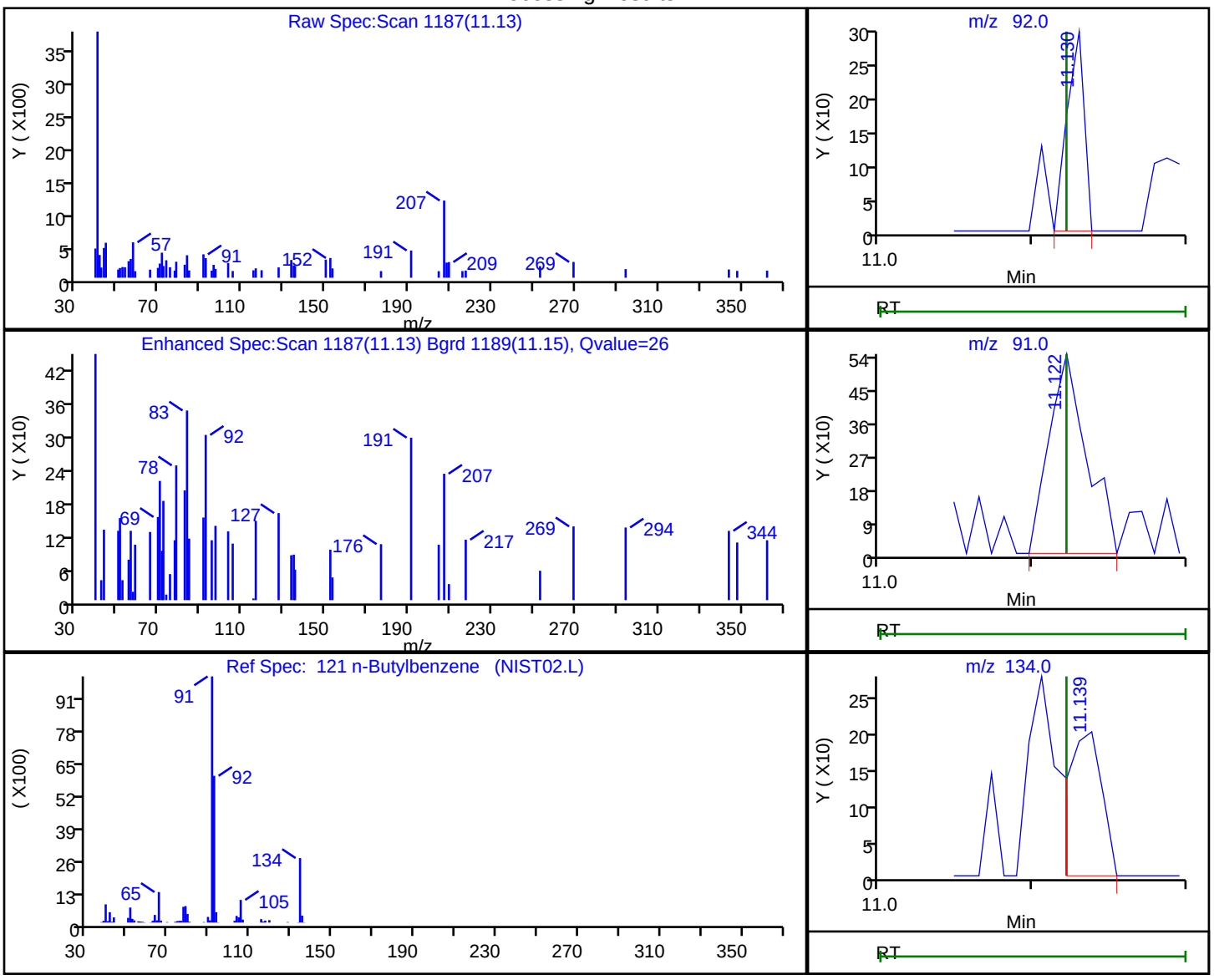
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
11.13	92.00	233	0.021634
11.12	91.00	932	
11.14	134.00	309	

Reviewer: boykink, 05-Jun-2018 05:33:46
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

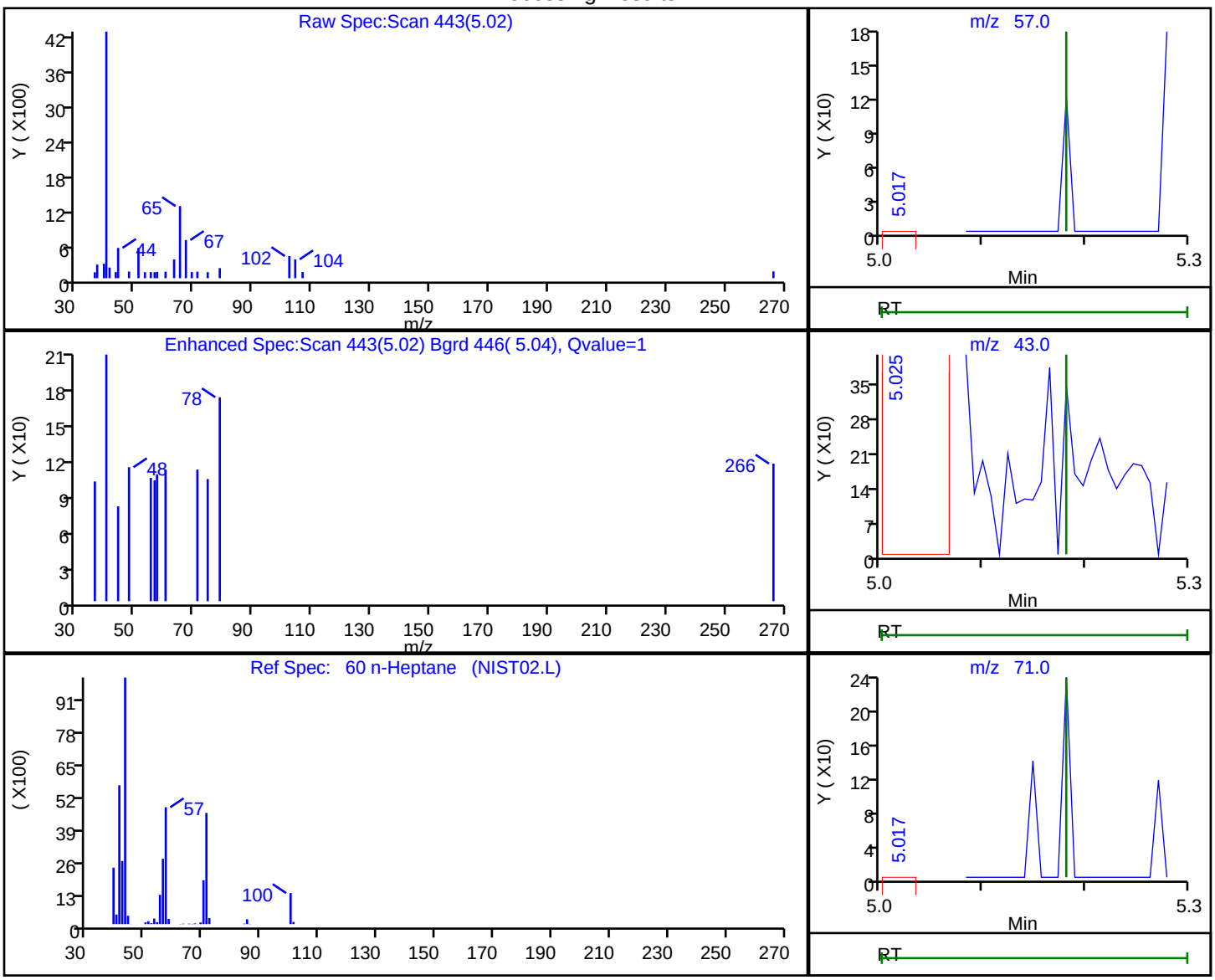
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.02	57.00	107	0.026445
5.03	43.00	585	
5.02	71.00	133	

Reviewer: boykink, 05-Jun-2018 05:33:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

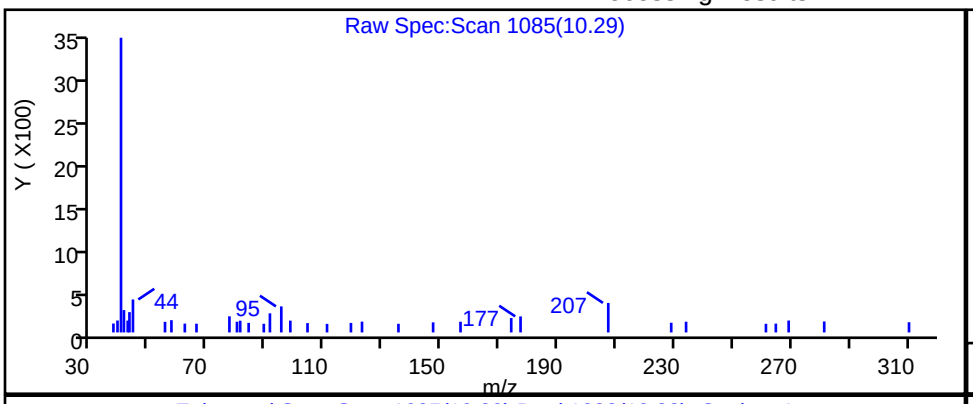
User Disabled Compound Report

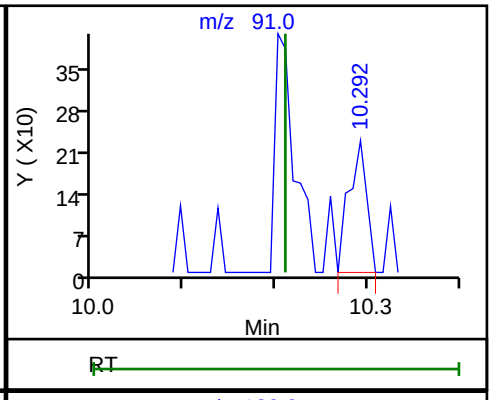
TestAmerica Edison

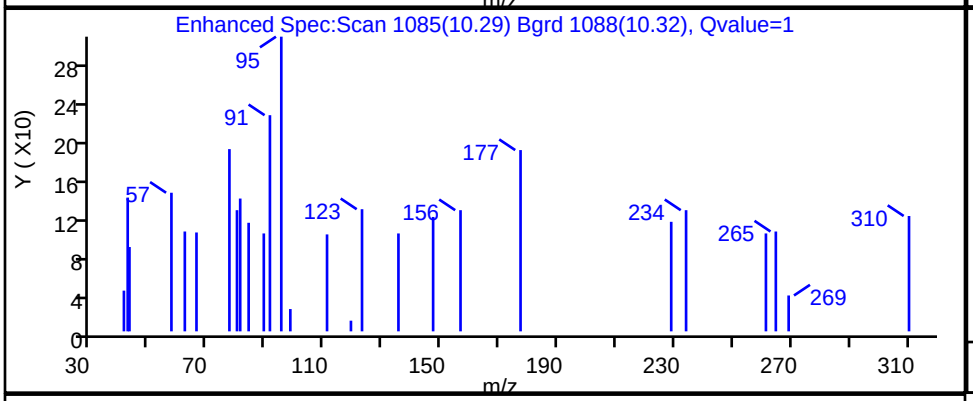
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

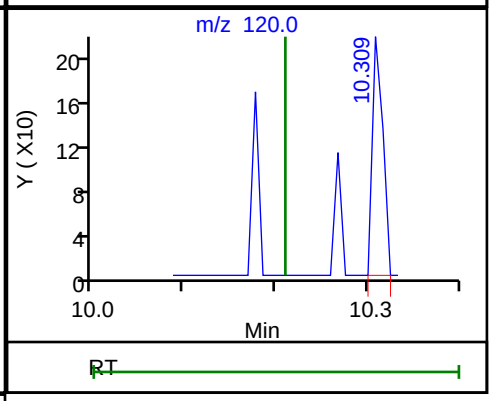
103 N-Propylbenzene, CAS: 103-65-1

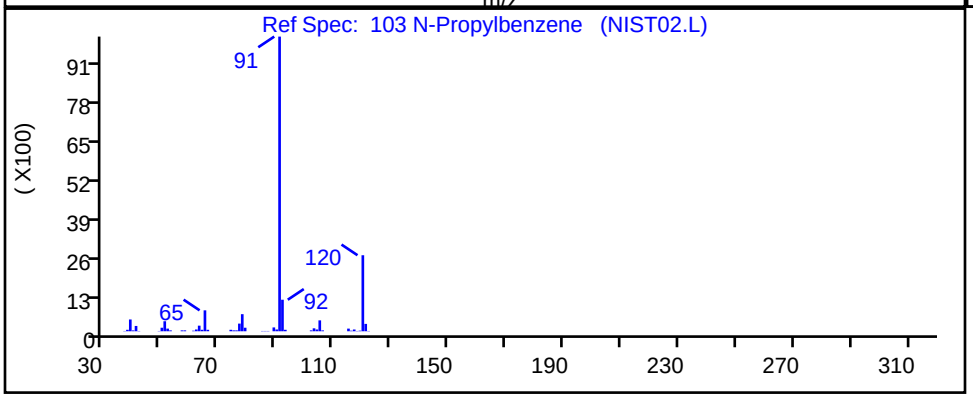
Processing Results











RT	Mass	Response	Amount
10.29	91.00	301	0.011016
10.31	120.00	169	

Reviewer: boykink, 05-Jun-2018 05:33:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

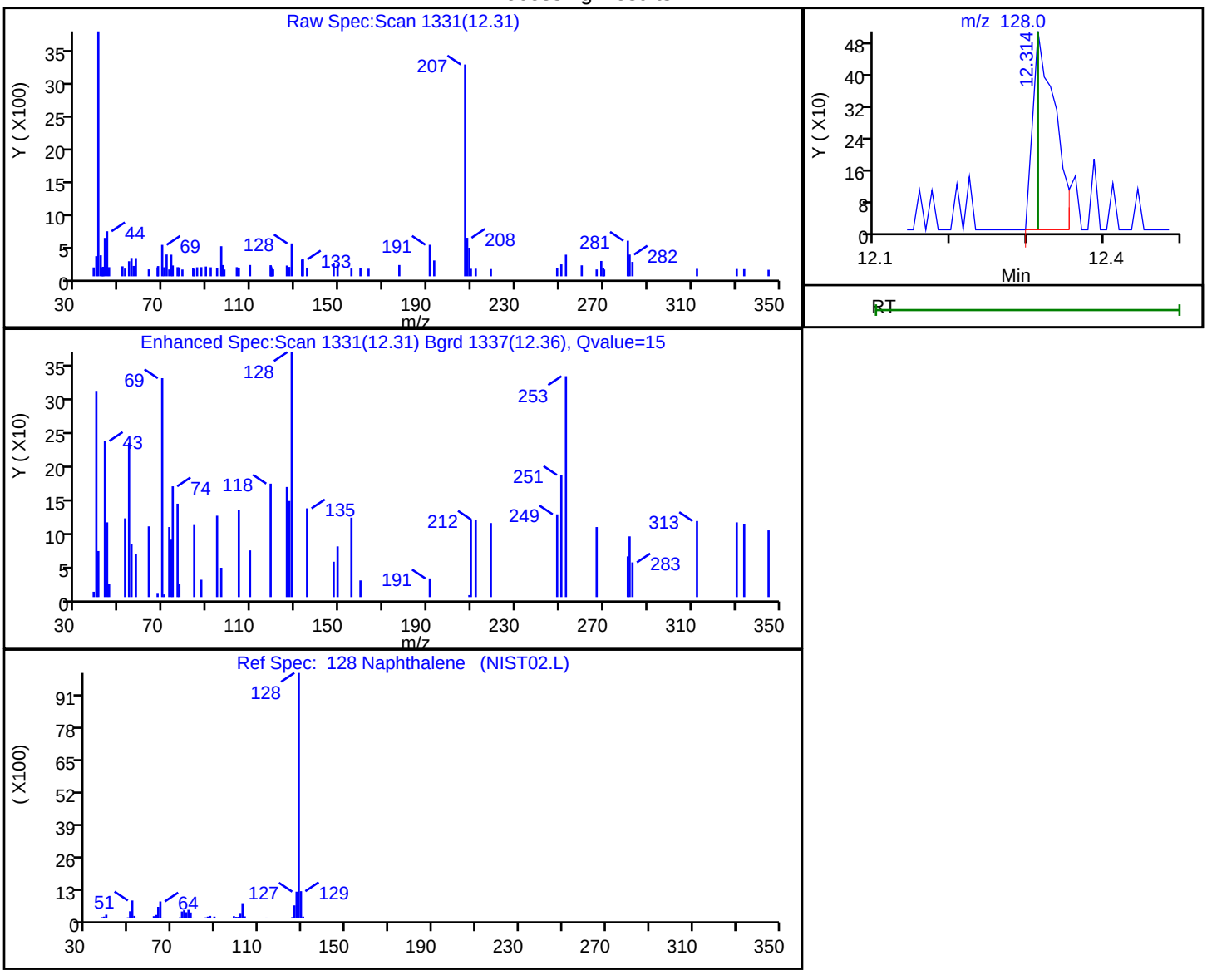
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

128 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
12.31	128.00	1019	0.064066

Reviewer: boykink, 05-Jun-2018 05:33:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

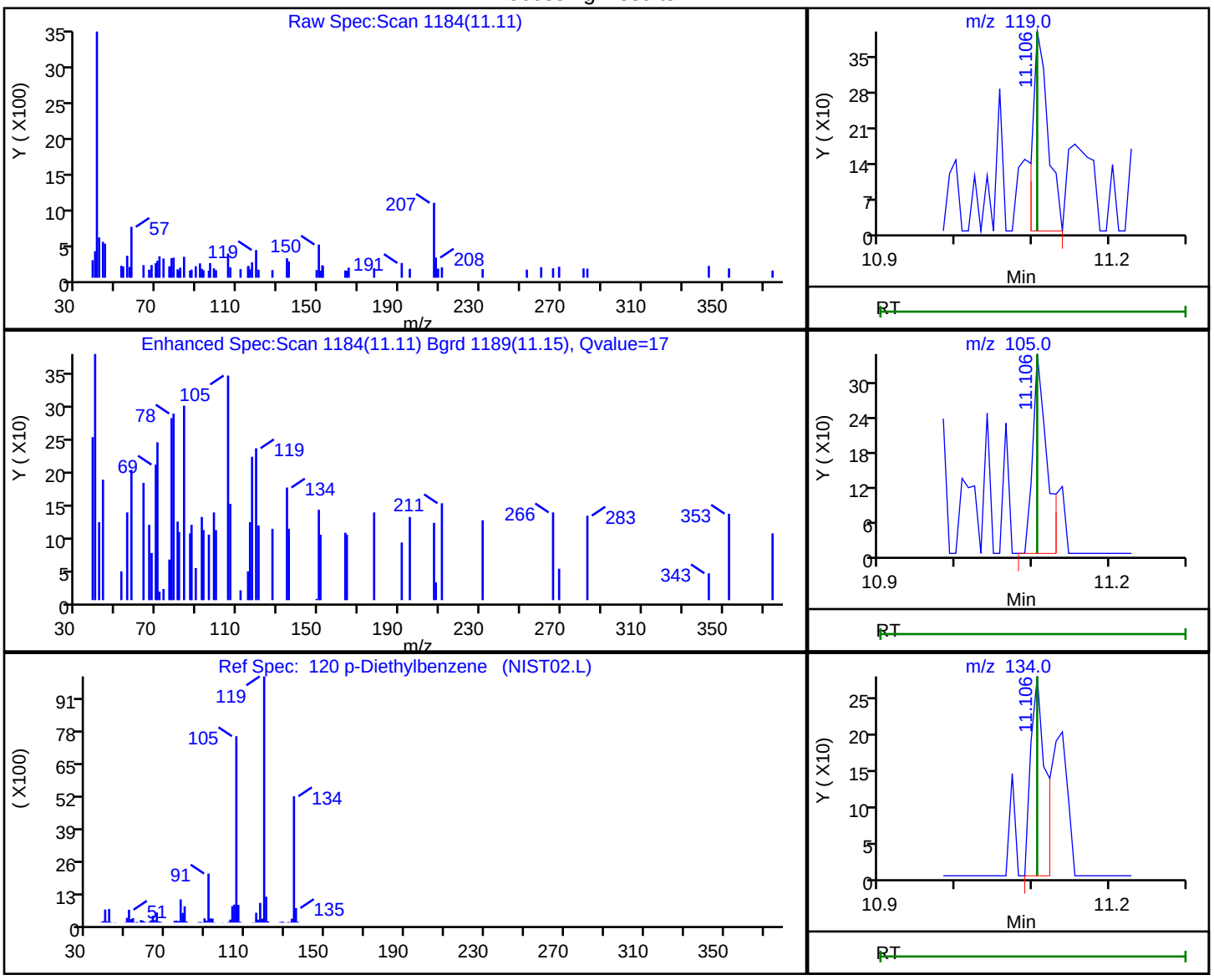
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.11	119.00	537	0.045088
11.11	105.00	441	
11.11	134.00	370	

Reviewer: boykink, 05-Jun-2018 05:33:45
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

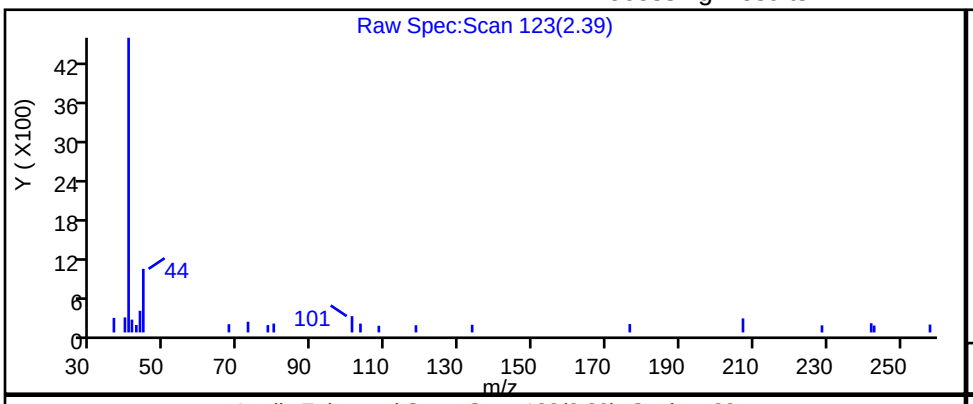
User Disabled Compound Report

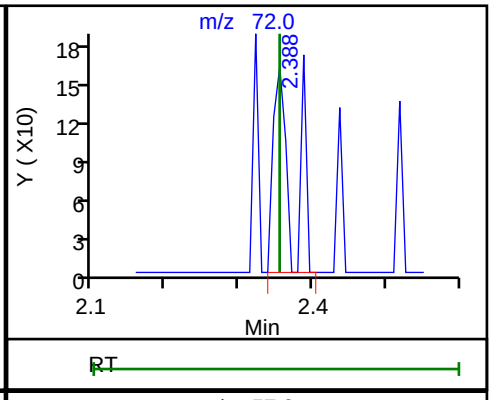
TestAmerica Edison

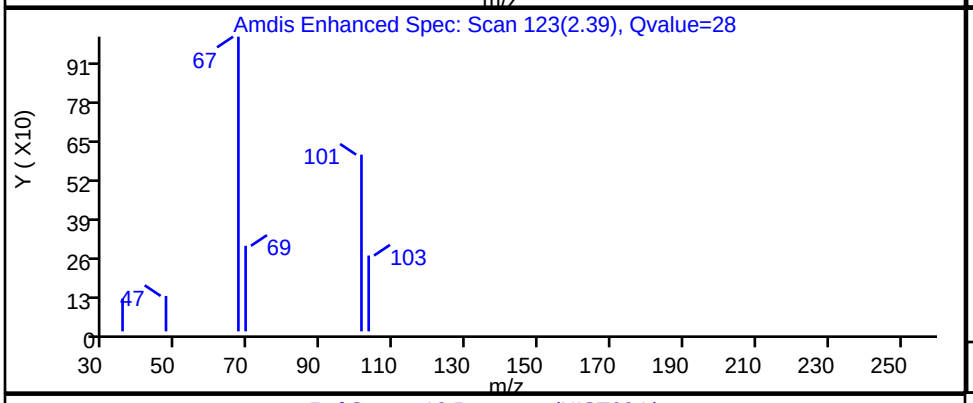
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

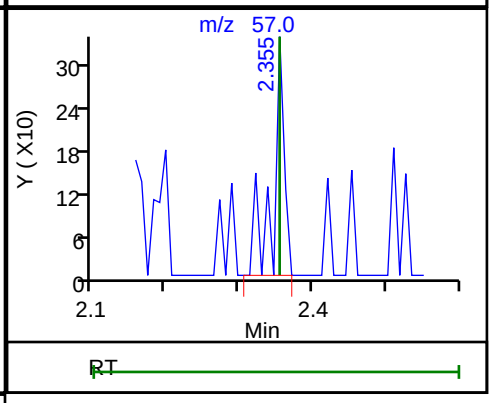
10 Pentane, CAS: 109-66-0

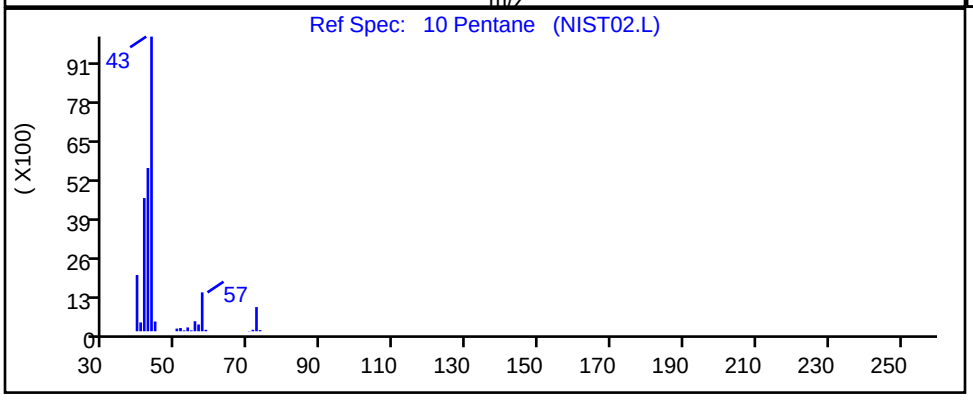
Processing Results











RT	Mass	Response	Amount
2.39	72.00	266	0.248933
2.35	57.00	353	

Reviewer: boykink, 05-Jun-2018 05:33:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

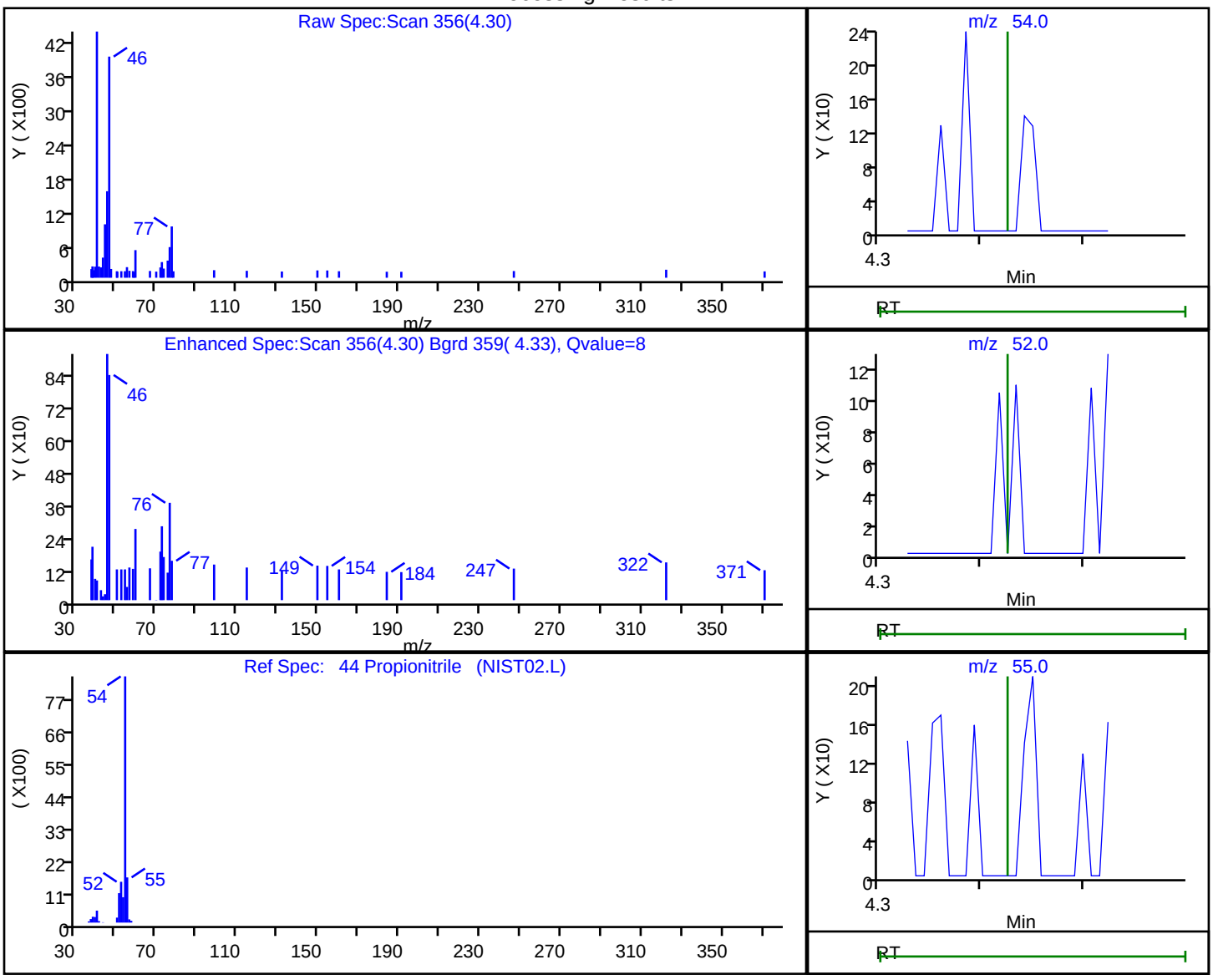
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
4.30	54.00	56	0.094001
4.31	52.00	127	
4.30	55.00	351	

Reviewer: boykink, 05-Jun-2018 05:33:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

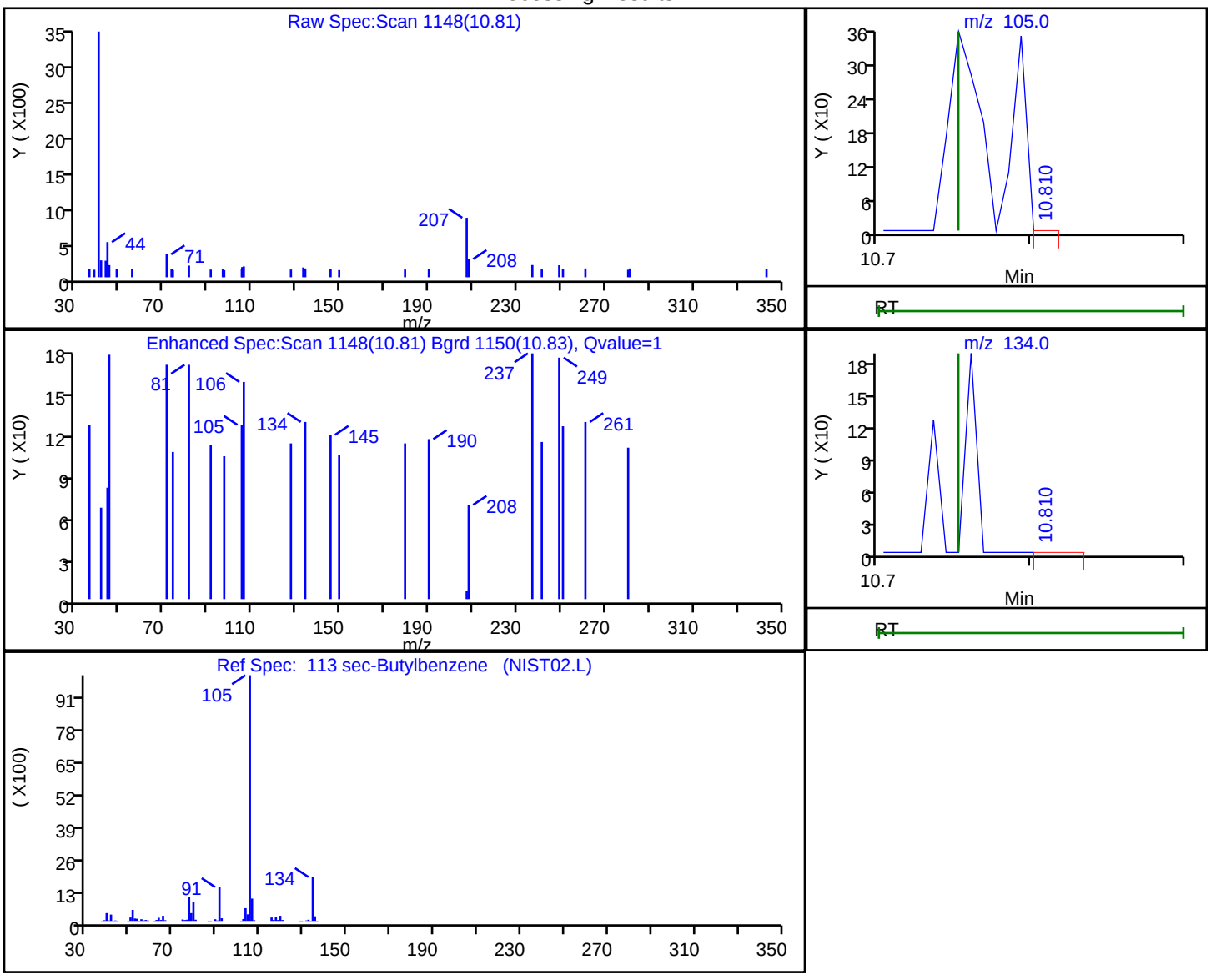
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

113 sec-Butylbenzene, CAS: 135-98-8

Processing Results



RT	Mass	Response	Amount
10.81	105.00	131	0.005446
10.81	134.00	112	

Reviewer: boykink, 05-Jun-2018 05:33:40
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

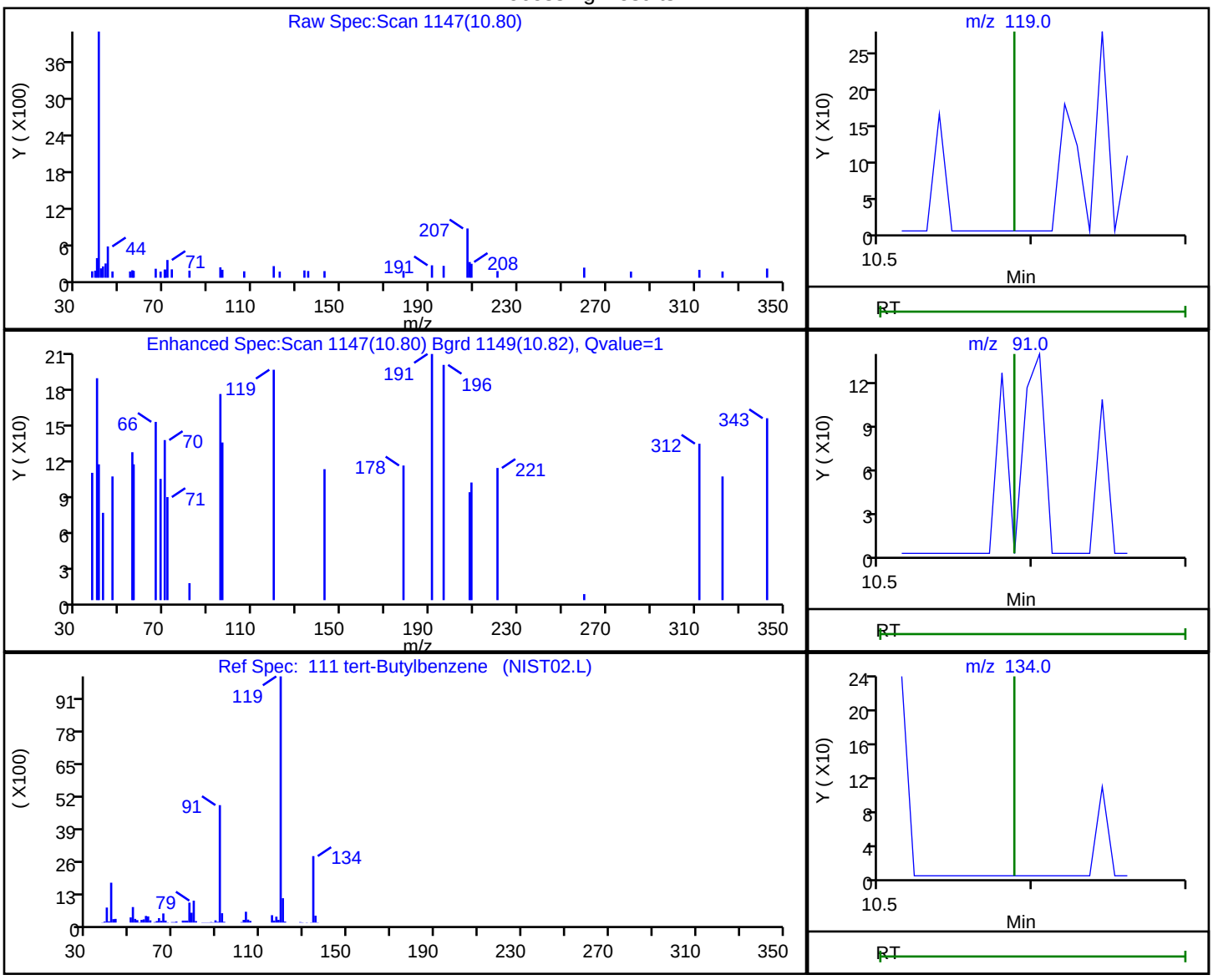
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

111 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
10.80	119.00	149	0.009866
10.79	91.00	54	
10.81	134.00	112	

Reviewer: boykink, 05-Jun-2018 05:33:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

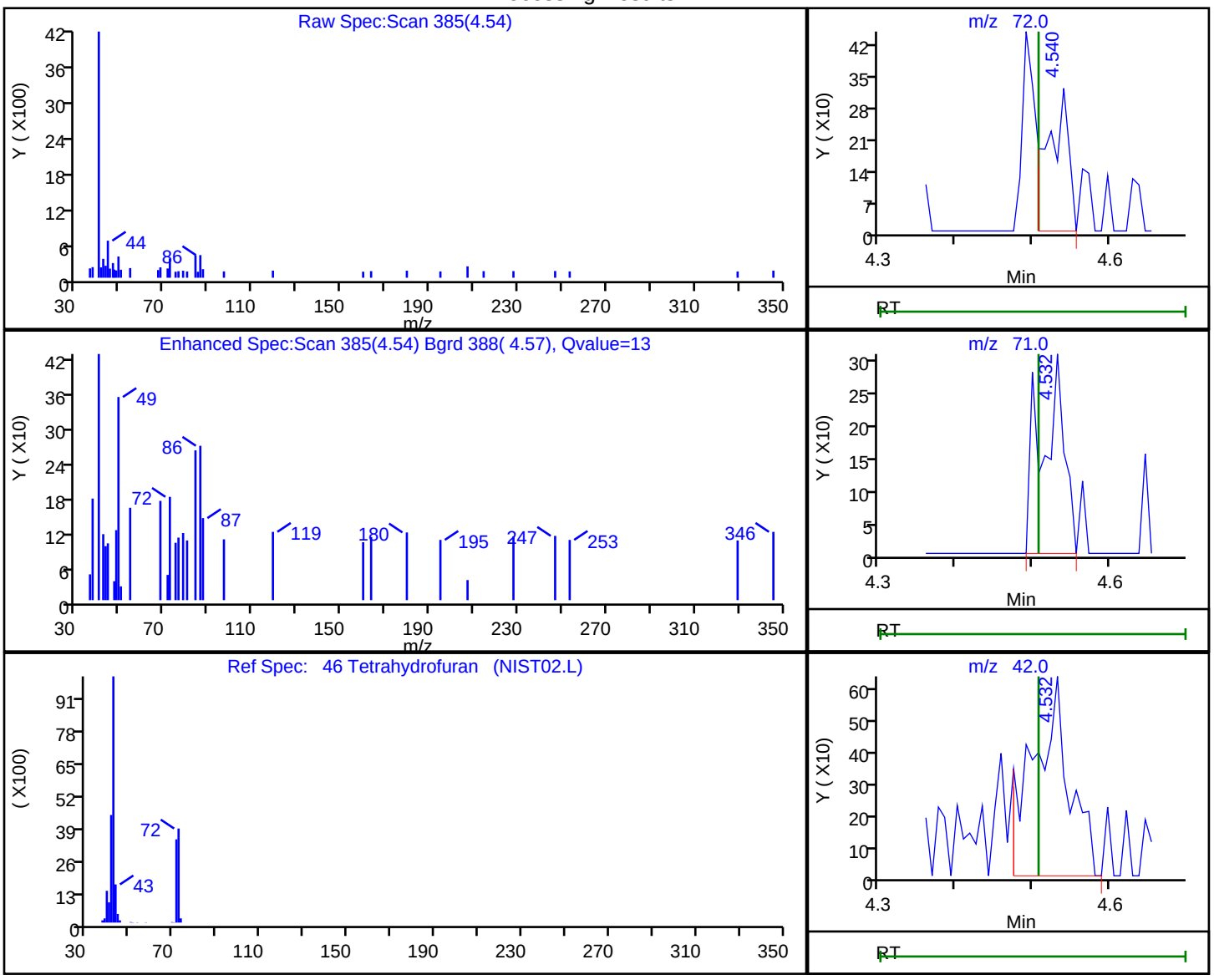
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

46 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
4.54	72.00	607	1.163449
4.53	71.00	628	
4.53	42.00	2116	

Reviewer: boykink, 05-Jun-2018 05:33:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

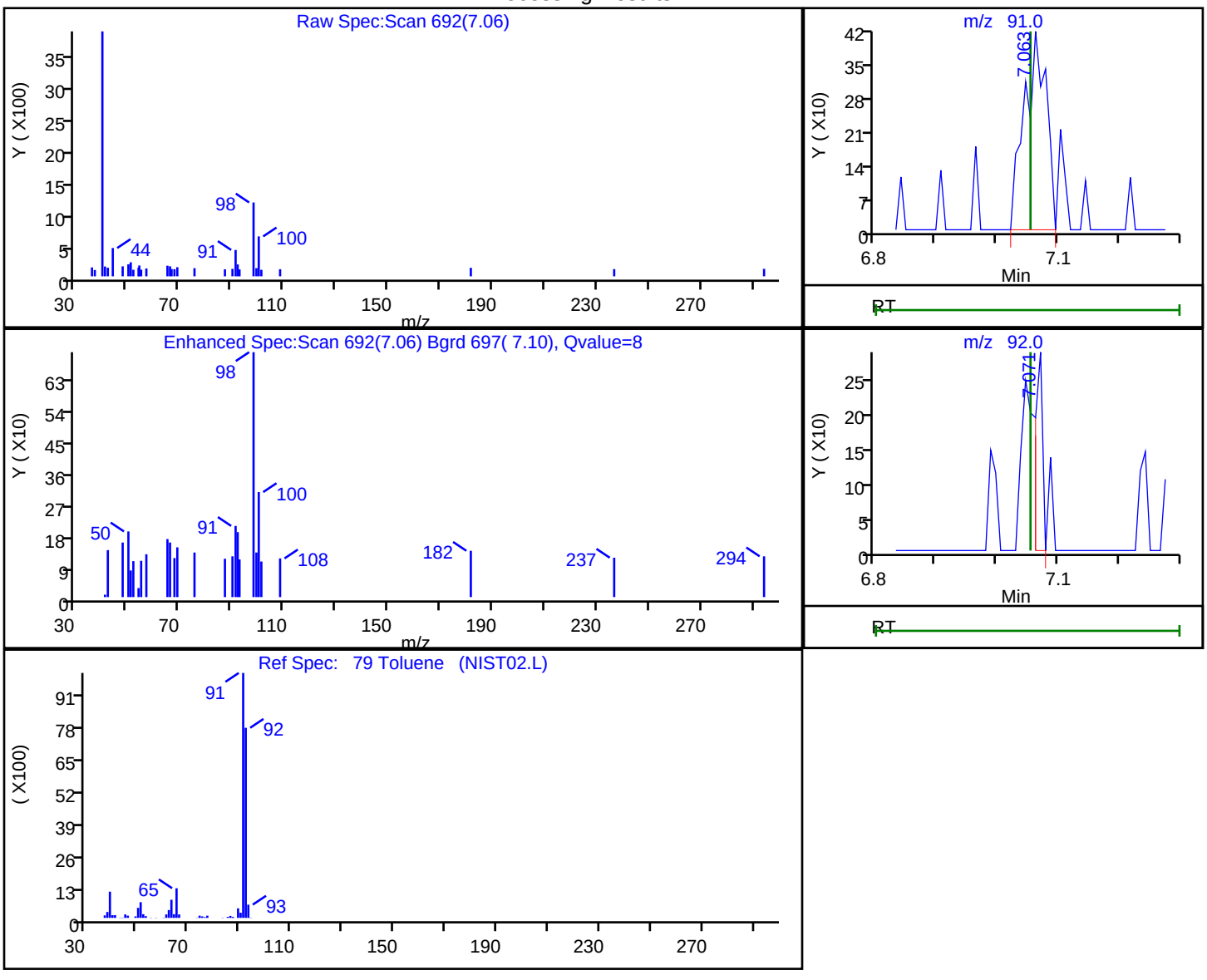
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
7.06	91.00	1048	0.047787
7.07	92.00	231	

Reviewer: boykink, 05-Jun-2018 05:33:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

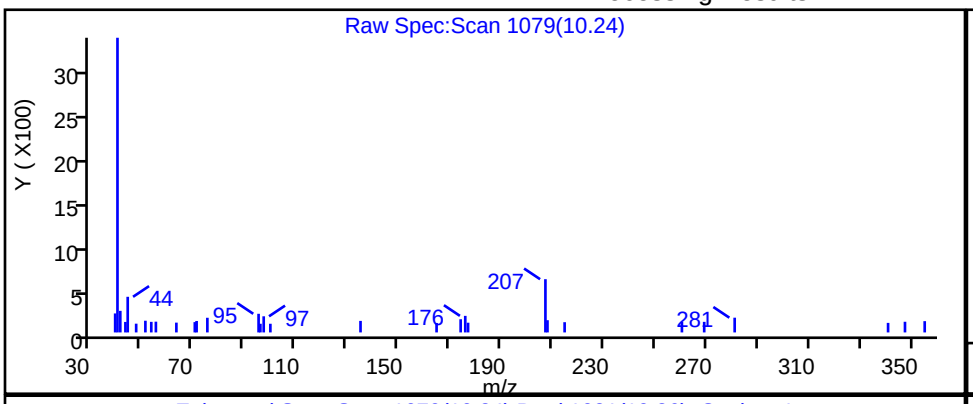
User Disabled Compound Report

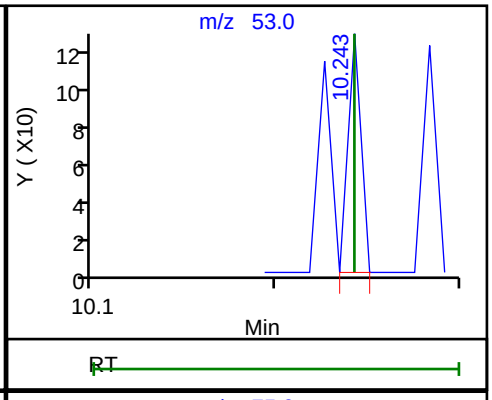
TestAmerica Edison

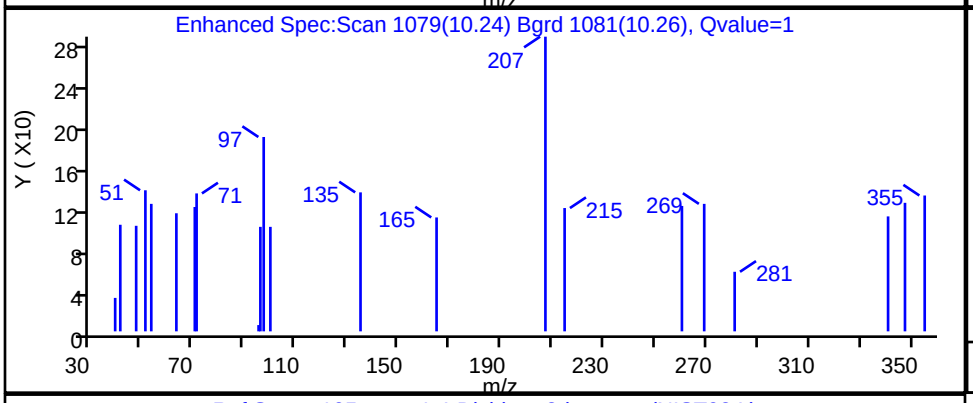
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D		
Injection Date:	05-Jun-2018 02:24:30	Instrument ID:	CVOAMS6
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

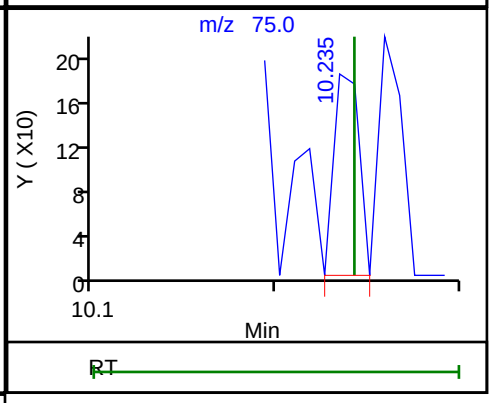
105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

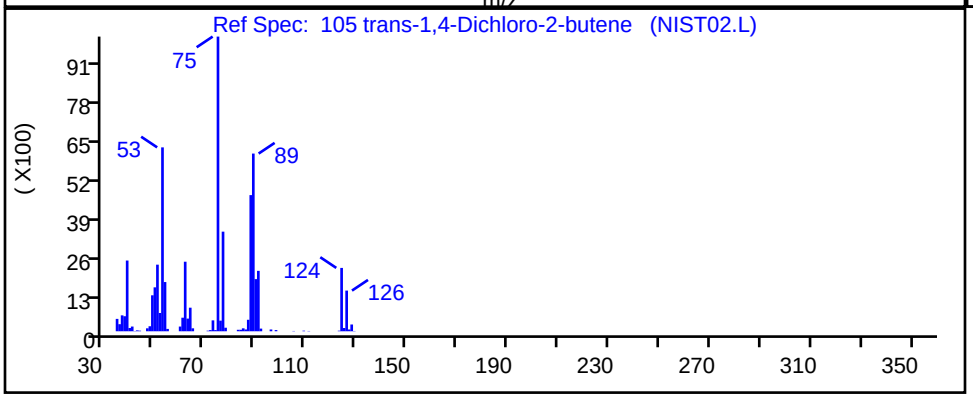
Processing Results











RT	Mass	Response	Amount
10.24	53.00	60	0.047959
10.23	75.00	171	

Reviewer: boykink, 05-Jun-2018 05:33:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

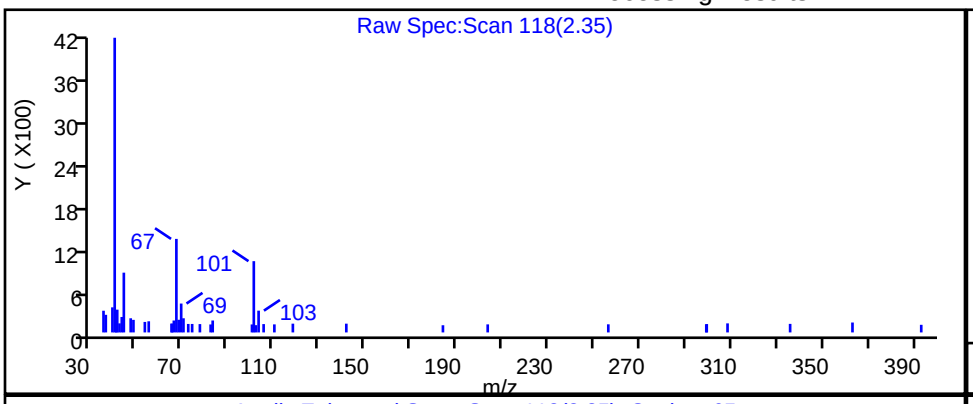
User Disabled Compound Report

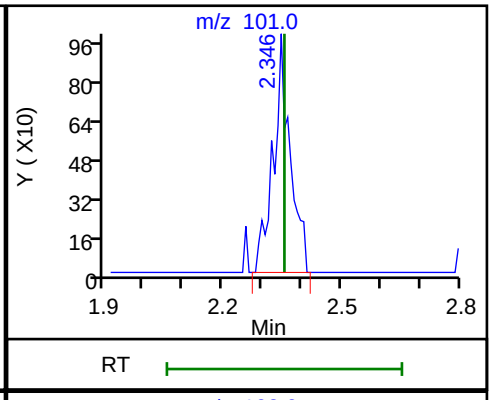
TestAmerica Edison

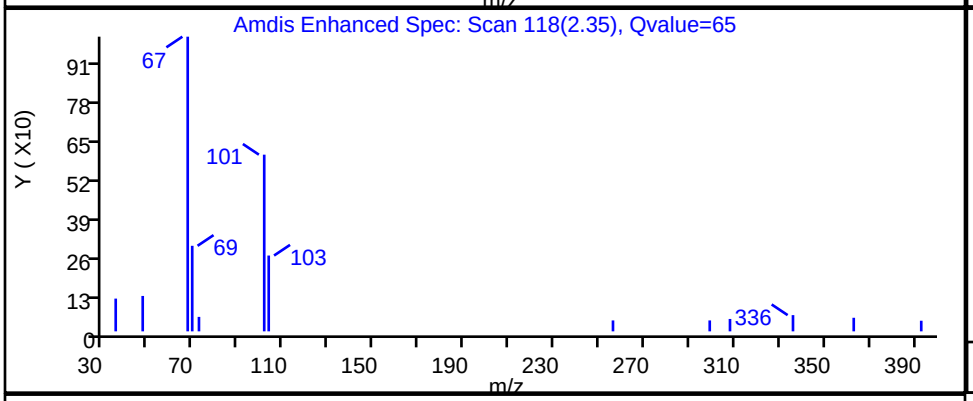
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

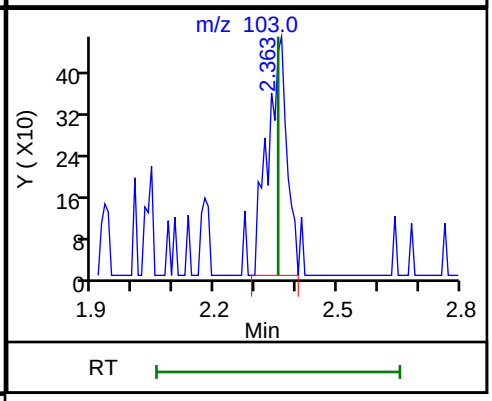
9 Trichlorofluoromethane, CAS: 75-69-4

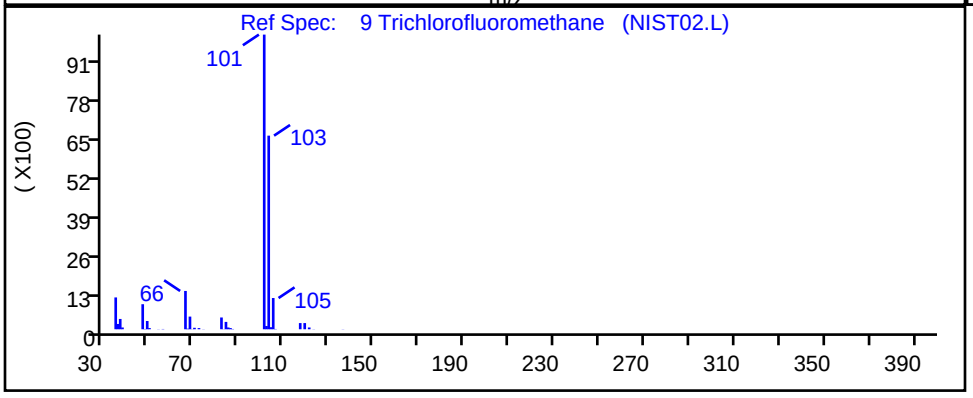
Processing Results











RT	Mass	Response	Amount
2.35	101.00	2932	0.250000
2.36	103.00	1530	

Reviewer: boykink, 05-Jun-2018 03:01:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

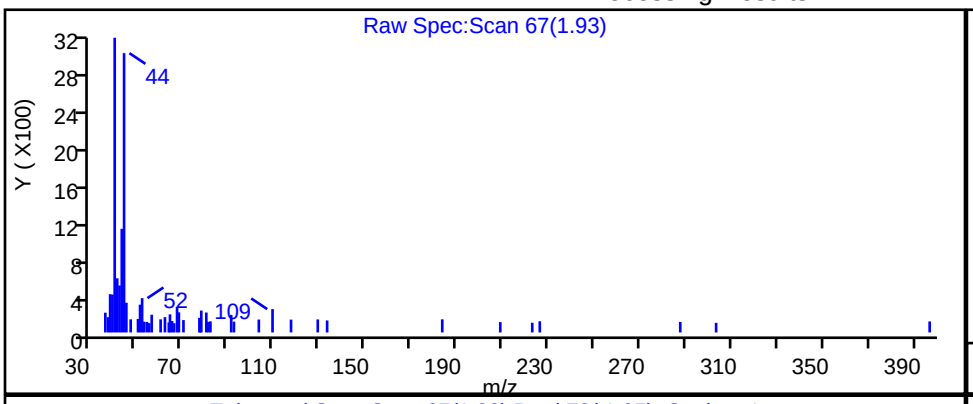
User Disabled Compound Report

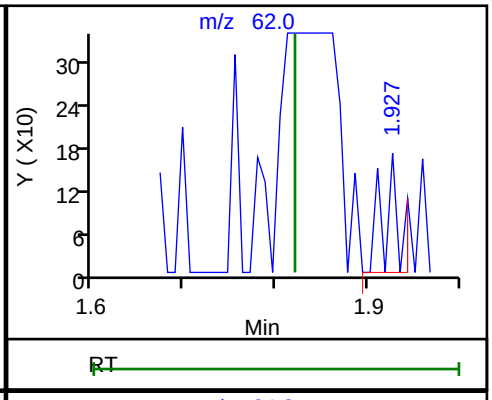
TestAmerica Edison

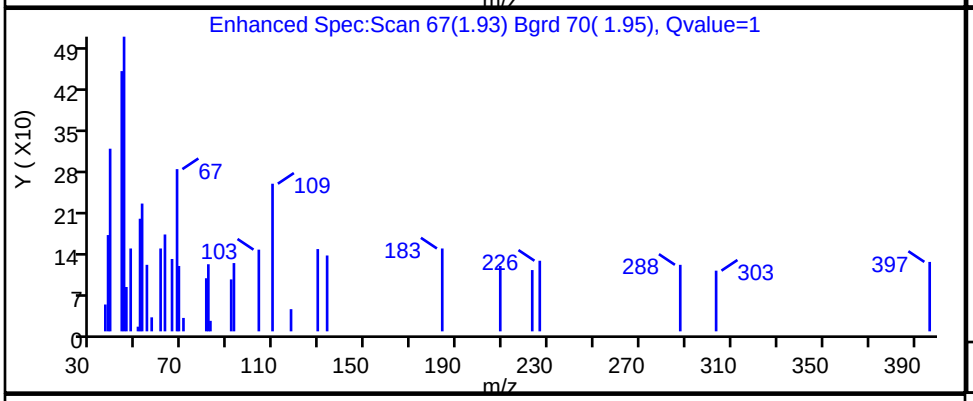
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65705.D
Injection Date: 05-Jun-2018 02:24:30 Instrument ID: CVOAMS6
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

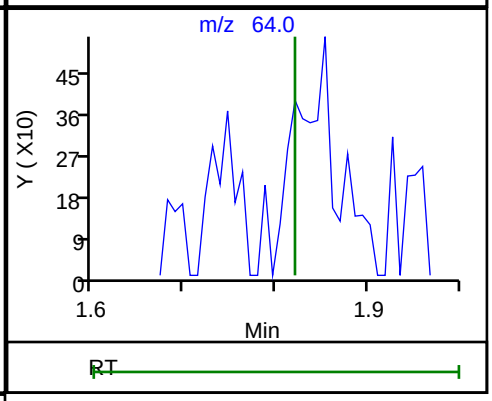
4 Vinyl chloride, CAS: 75-01-4

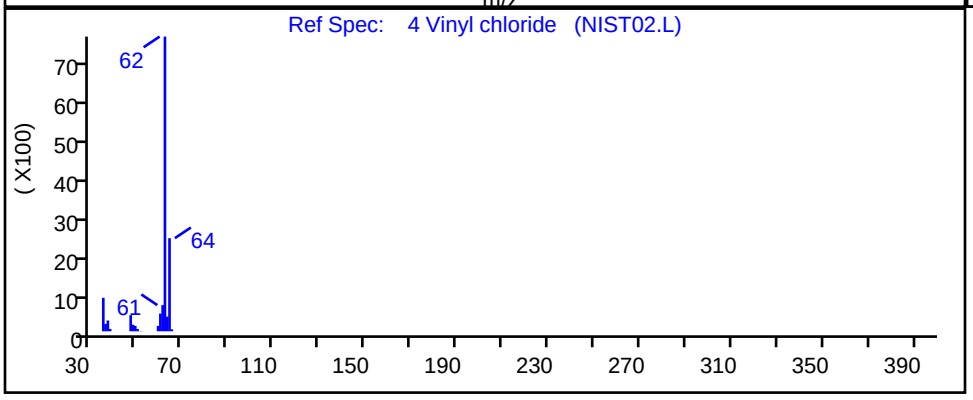
Processing Results











RT	Mass	Response	Amount
1.93	62.00	204	0.250000
1.93	64.00	881	

Reviewer: boykink, 05-Jun-2018 03:01:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jun-2018 03:11:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0073199-005
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:06:55 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 03:43:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.508	1.525	-0.017	36	2547	1.00	0.8894	
2 Dichlorodifluoromethane	85	1.558	1.557	0.001	97	7683	1.00	1.06	
3 Chloromethane	50	1.730	1.730	0.000	99	9362	1.00	1.19	
4 Vinyl chloride	62	1.821	1.820	0.001	96	8354	1.00	1.13	
5 Butadiene	54	1.812	1.820	-0.008	95	7433	1.00	1.04	
6 Bromomethane	94	2.100	2.100	0.000	97	6025	1.00	1.23	
7 Chloroethane	64	2.157	2.157	0.000	96	5077	1.00	1.19	
8 Dichlorofluoromethane	67	2.330	2.338	-0.008	97	13012	1.00	1.20	
10 Pentane	72	2.363	2.355	0.008	96	1866	2.00	1.97	
9 Trichlorofluoromethane	101	2.346	2.355	-0.009	64	8715	1.00	1.12	
12 Ethyl ether	59	2.535	2.544	-0.009	81	3552	1.00	1.01	
11 Ethanol	46	2.576	2.552	0.024	24	598	40.0	47.0	Ma
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	85	4751	1.00	1.15	
14 1,2-Dichloro-1,1,2-trifluo	117	2.593	2.601	-0.008	77	4458	1.00	1.14	
15 Acrolein	56	2.708	2.724	-0.016	36	2352	4.00	4.83	
16 1,1,2-Trichloro-1,2,2-trif	101	2.716	2.732	-0.016	73	4601	1.00	1.01	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	4687	1.00	1.10	
18 Acetone	43	2.856	2.848	0.008	67	9981	5.00	5.00	
19 Iodomethane	142	2.905	2.905	0.000	98	8421	1.00	1.12	
20 Isopropyl alcohol	45	2.946	2.938	0.008	26	1930	10.0	10.3	
21 Carbon disulfide	76	2.938	2.946	-0.008	99	18498	1.00	1.11	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	89	9925	1.00	1.10	
23 Cyclopentene	67	3.078	3.078	0.000	75	11690	1.00	1.06	
24 Methyl acetate	43	3.078	3.078	0.000	52	5799	2.00	2.17	
25 Acetonitrile	41	3.193	3.143	0.050	22	2301	10.0	10.1	a
27 Methylene Chloride	84	3.185	3.184	0.001	81	5715	1.00	1.11	
* 26 TBA-d9 (IS)	65	3.209	3.201	0.008	0	123599	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.267	3.267	0.000	28	3777	10.0	10.6	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	95	13357	1.00	1.04	
30 trans-1,2-Dichloroethene	96	3.365	3.373	-0.008	93	5612	1.00	1.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.447	0.000	98	15556	10.0	9.86	
32 Hexane	43	3.513	3.521	-0.008	91	4989	1.00	1.20	
33 Isopropyl ether	45	3.710	3.719	-0.009	94	17754	1.00	1.11	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	74	9776	1.00	1.13	
35 Vinyl acetate	86	3.768	3.768	0.000	99	1481	2.00	1.83	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	91	4235	1.00	1.05	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	16471	1.00	1.12	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	108053	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.261	0.008	51	1853	1.00	1.07	a
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	95	5939	1.00	1.13	
42 Ethyl acetate	70	4.294	4.285	0.009	53	557	2.00	1.48	
41 2-Butanone (MEK)	72	4.310	4.294	0.016	96	1814	5.00	4.71	
43 Methyl acrylate	55	4.335	4.343	-0.008	10	3198	1.00	1.06	
44 Propionitrile	54	4.450	4.425	0.025	92	4646	10.0	8.44	
45 Chlorobromomethane	128	4.499	4.499	0.000	93	2486	1.00	1.05	
46 Tetrahydrofuran	72	4.507	4.507	0.000	50	1051	2.00	2.24	
47 Methacrylonitrile	67	4.524	4.524	0.000	93	15958	10.0	10.3	
48 Chloroform	83	4.549	4.548	0.001	98	8615	1.00	1.09	
49 Cyclohexane	84	4.680	4.680	0.000	89	6340	1.00	0.9129	
50 1,1,1-Trichloroethane	97	4.696	4.696	0.000	81	7845	1.00	1.12	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	80506	50.0	51.8	
52 Carbon tetrachloride	117	4.820	4.811	0.009	98	6049	1.00	1.07	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	95	6796	1.00	1.08	
54 Isobutyl alcohol	43	4.992	4.992	0.000	37	5057	25.0	20.9	a
55 Benzene	78	5.033	5.041	-0.008	95	20068	1.00	1.13	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	94842	50.0	50.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	85	15186	1.00	1.02	
57 Isopropyl acetate	43	5.091	5.091	0.000	82	12701	1.00	1.05	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	92	6776	1.00	1.14	
60 n-Heptane	57	5.181	5.181	0.000	92	3295	1.00	0.9746	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	314816	50.0	50.0	
62 n-Butanol	56	5.715	5.658	0.057	22	258	25.0	25.7	
63 Trichloroethene	95	5.674	5.674	0.000	94	5180	1.00	1.11	
65 Ethyl acrylate	55	5.798	5.797	0.001	91	9716	1.00	0.9437	
64 Methylcyclohexane	83	5.798	5.797	0.001	91	8161	1.00	1.01	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	87	5292	1.00	1.10	
68 Methyl methacrylate	100	6.028	6.027	0.001	87	1689	2.00	1.83	
* 67 1,4-Dioxane-d8	96	6.052	6.027	0.025	0	10468	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	4476	1.00	0.9571	a
71 Dibromomethane	93	6.093	6.093	0.000	93	3071	1.00	1.13	
69 1,4-Dioxane	88	6.134	6.101	0.033	28	1077	50.0	25.0	
72 Dichlorobromomethane	83	6.233	6.241	-0.008	96	6205	1.00	1.03	
73 2-Nitropropane	41	6.578	6.570	0.008	36	2775	2.00	1.97	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	55	2442	1.00	1.04	
75 Epichlorohydrin	57	6.685	6.685	0.000	95	5867	20.0	18.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	93	6901	1.00	1.05	
77 4-Methyl-2-pentanone (MIBK	43	6.907	6.898	0.009	94	15527	5.00	4.44	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	303576	50.0	50.9	
79 Toluene	91	7.055	7.055	0.000	93	20258	1.00	1.13	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	5411	1.00	0.99	
81 Ethyl methacrylate	69	7.441	7.433	0.008	79	3949	1.00	0.8628	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	93	3341	1.00	1.10	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.671	-0.008	94	4865	1.00	1.15	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	93	5857	1.00	1.03	
85 2-Hexanone	43	7.917	7.893	0.024	98	5567	5.00	5.03	a
86 n-Butyl acetate	43	8.008	8.008	0.000	35	5277	1.00	0.9685	a
87 Chlorodibromomethane	129	8.065	8.065	0.000	95	3752	1.00	1.01	
88 Ethylene Dibromide	107	8.230	8.221	0.009	98	3019	1.00	0.9556	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	87	205343	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	91	11385	1.00	1.05	
91 Ethylbenzene	106	8.895	8.903	-0.008	98	7024	1.00	1.10	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	92	4481	1.00	1.09	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	7468	1.00	0.9815	
94 n-Butyl acrylate	73	9.536	9.495	0.041	39	3496	1.00	1.15	a
95 o-Xylene	106	9.503	9.503	0.000	93	8133	1.00	1.03	
96 Styrene	104	9.544	9.536	0.008	96	10671	1.00	0.9037	
97 Amyl acetate (mixed isomer	43	9.750	9.717	0.033	68	4498	1.00	1.01	
98 Bromoform	173	9.750	9.742	0.008	91	2201	1.00	0.9755	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	21157	1.00	1.07	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	92	85396	50.0	50.4	
101 Bromobenzene	156	10.152	10.152	0.000	96	5069	1.00	1.03	
102 1,1,2,2-Tetrachloroethane	83	10.194	10.185	0.009	93	5201	1.00	1.08	
103 N-Propylbenzene	91	10.210	10.210	0.000	100	26566	1.00	1.11	
104 1,2,3-Trichloropropane	110	10.235	10.226	0.009	91	1335	1.00	1.02	
105 trans-1,4-Dichloro-2-buten	53	10.259	10.243	0.016	61	1347	1.00	1.12	a
107 4-Ethyltoluene	105	10.300	10.300	0.000	96	20862	1.00	1.04	
106 2-Chlorotoluene	91	10.300	10.300	0.000	95	17320	1.00	1.03	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	92	18270	1.00	1.04	
109 4-Chlorotoluene	91	10.399	10.391	0.008	97	16134	1.00	1.07	
110 Butyl Methacrylate	87	10.440	10.432	0.008	92	3822	1.00	1.01	
111 tert-Butylbenzene	119	10.588	10.588	0.000	93	13638	1.00	0.9858	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	18386	1.00	1.04	
113 sec-Butylbenzene	105	10.744	10.752	-0.008	98	21826	1.00	1.03	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	18304	1.00	1.01	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	10885	1.00	1.12	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	97	120389	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	10945	1.00	1.11	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	19925	1.00	1.06	
118 Benzyl chloride	91	11.032	11.023	0.009	98	8516	1.00	0.9291	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	94	20230	1.00	1.11	
120 p-Diethylbenzene	119	11.106	11.106	0.000	91	11929	1.00	1.11	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	10214	1.00	1.04	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	93	10586	1.00	1.10	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	97	18996	1.00	1.09	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.656	0.008	49	1271	1.00	1.00	
125 1,3,5-Trichlorobenzene	180	11.747	11.738	0.009	92	8002	1.00	1.08	
126 1,2,4-Trichlorobenzene	180	12.149	12.141	0.008	94	6133	1.00	0.9613	
127 Hexachlorobutadiene	225	12.207	12.198	0.009	89	3302	1.00	1.12	
128 Naphthalene	128	12.322	12.313	0.009	99	15668	1.00	1.08	
129 1,2,3-Trichlorobenzene	180	12.486	12.478	0.008	93	6797	1.00	1.15	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.31	
S 131 Xylenes, Total	100				0		2.00	2.01	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

14DIOXINTER_00084	Amount Added:	30.00	Units: uL	
GAS Hi_00257	Amount Added:	1.00	Units: uL	
MIX I Hi_00094	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Jun-2018 13:07:01 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D

Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6 Operator ID:

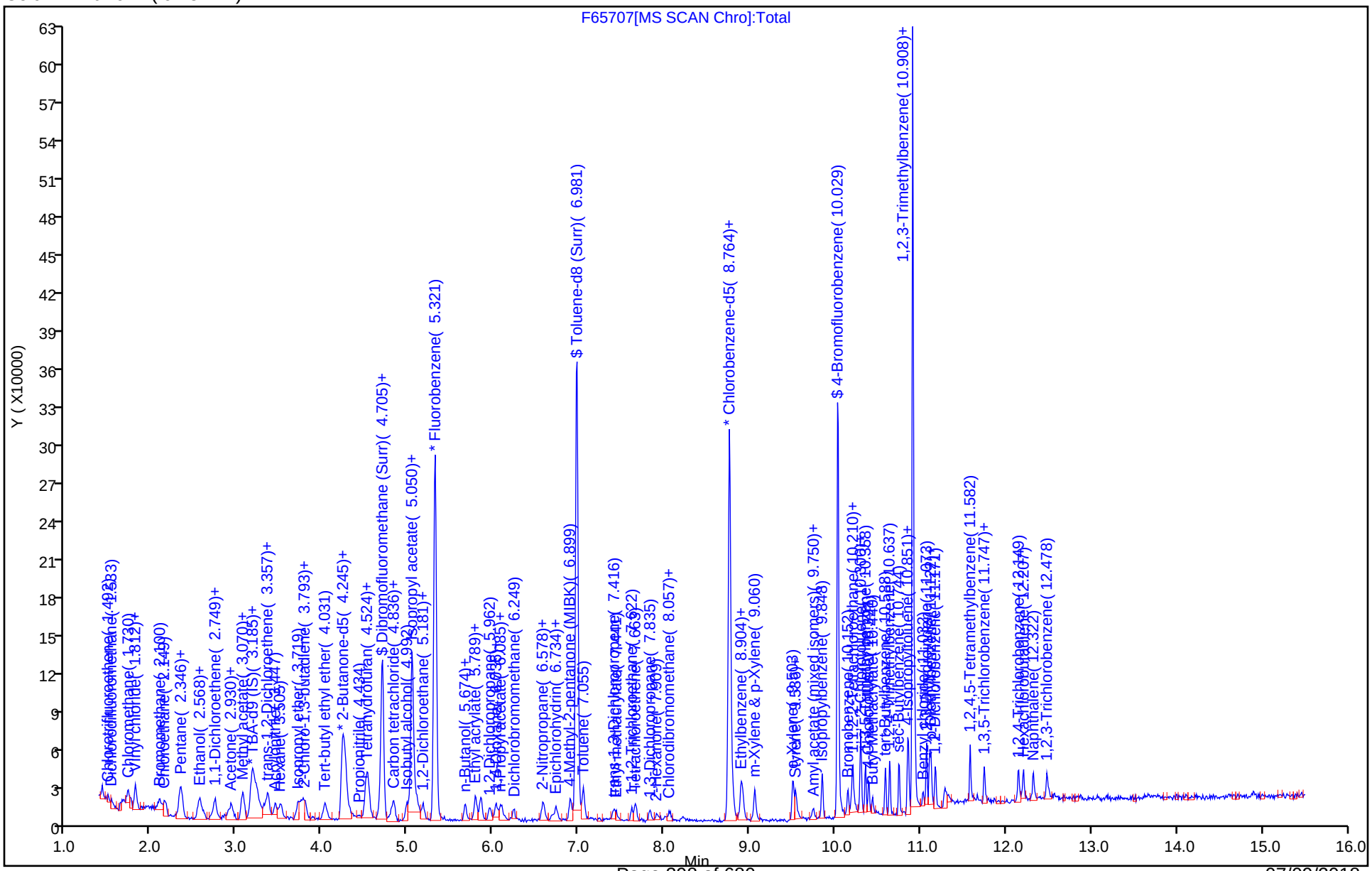
Lims ID: STD1 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

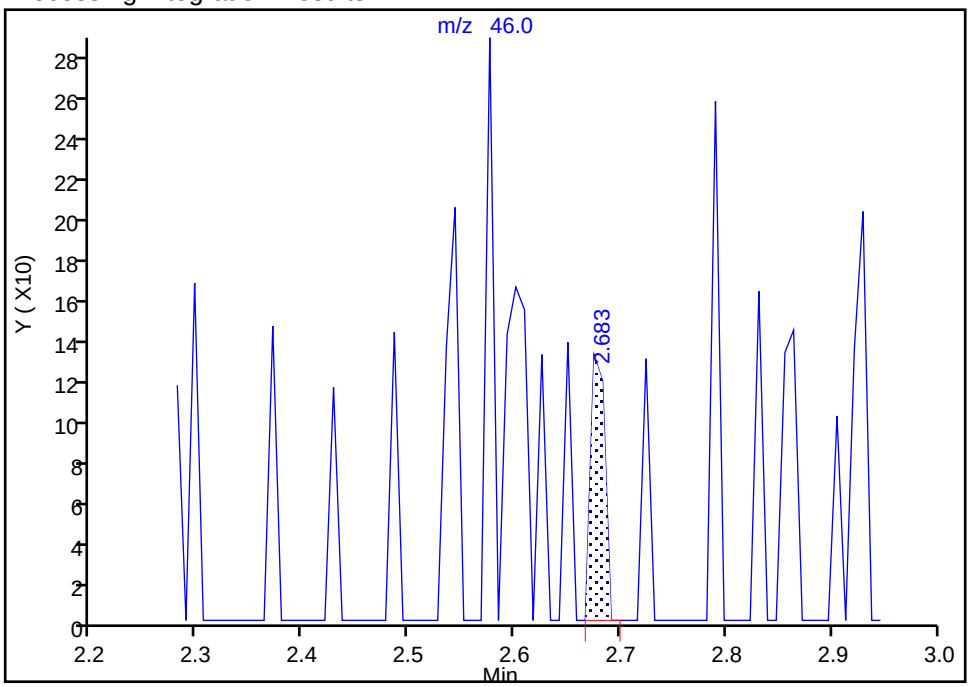
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

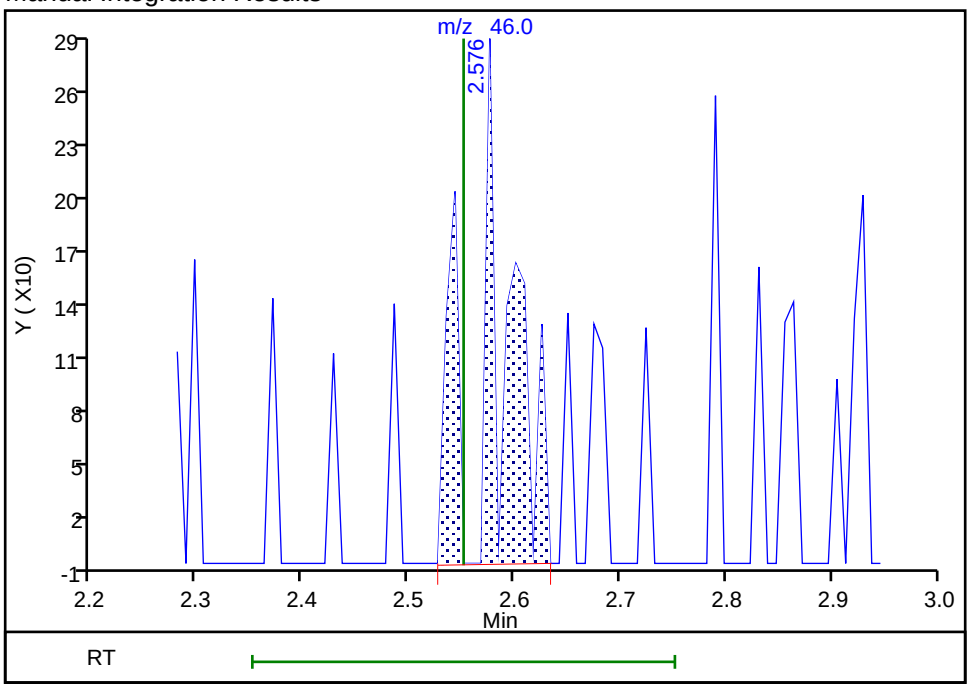
Processing Integration Results

RT: 2.68
Area: 122
Amount: 10.275111
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 598
Amount: 46.977048
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 10:34:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

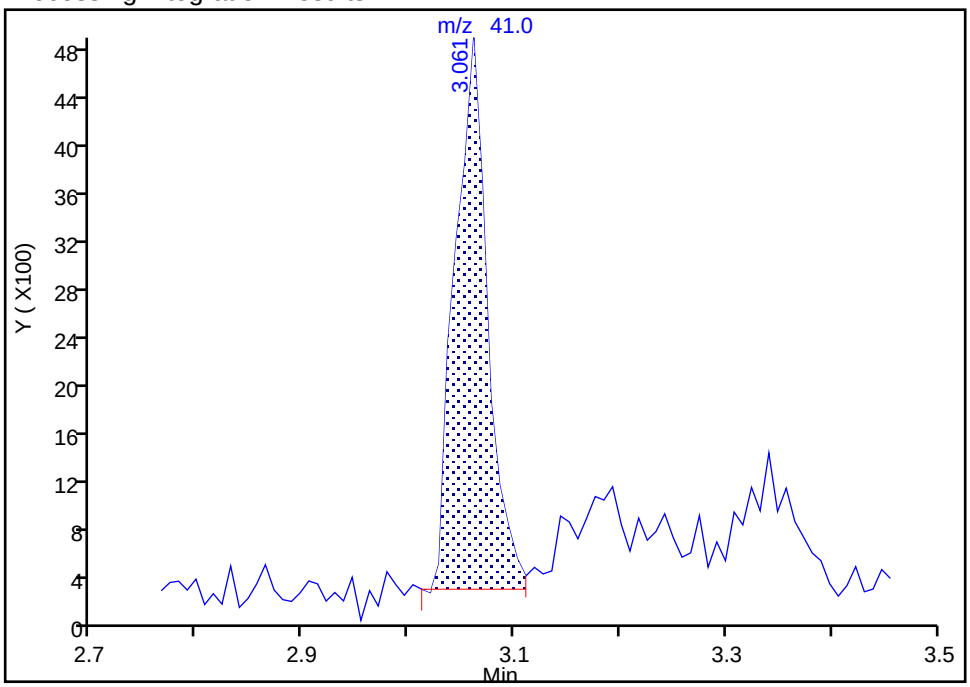
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

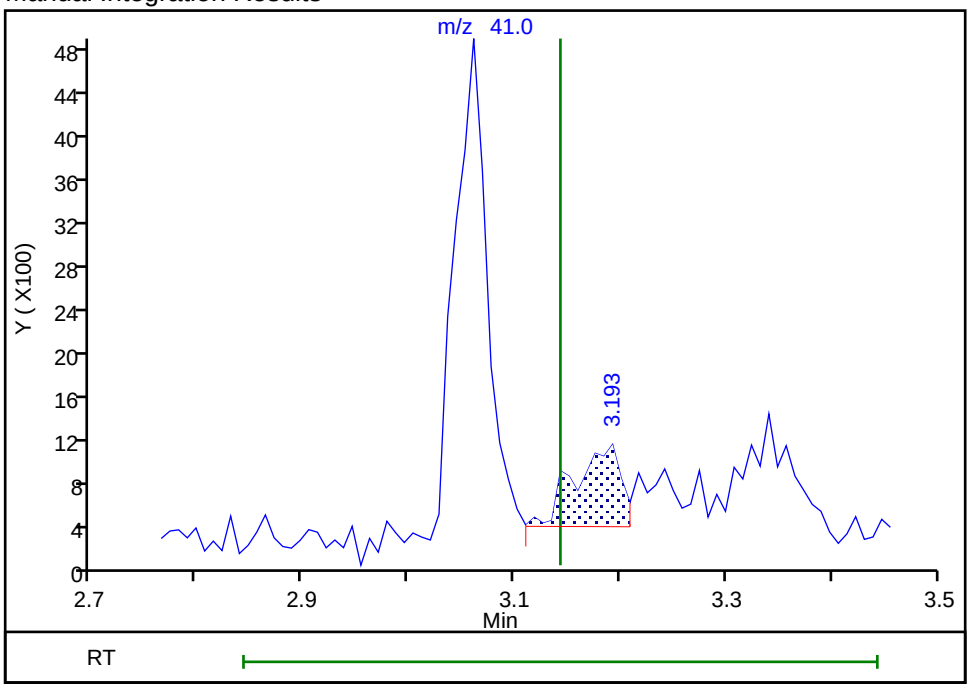
Processing Integration Results

RT: 3.06
Area: 9765
Amount: 10.000000
Amount Units: ug/l



Manual Integration Results

RT: 3.19
Area: 2301
Amount: 10.134569
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:45:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

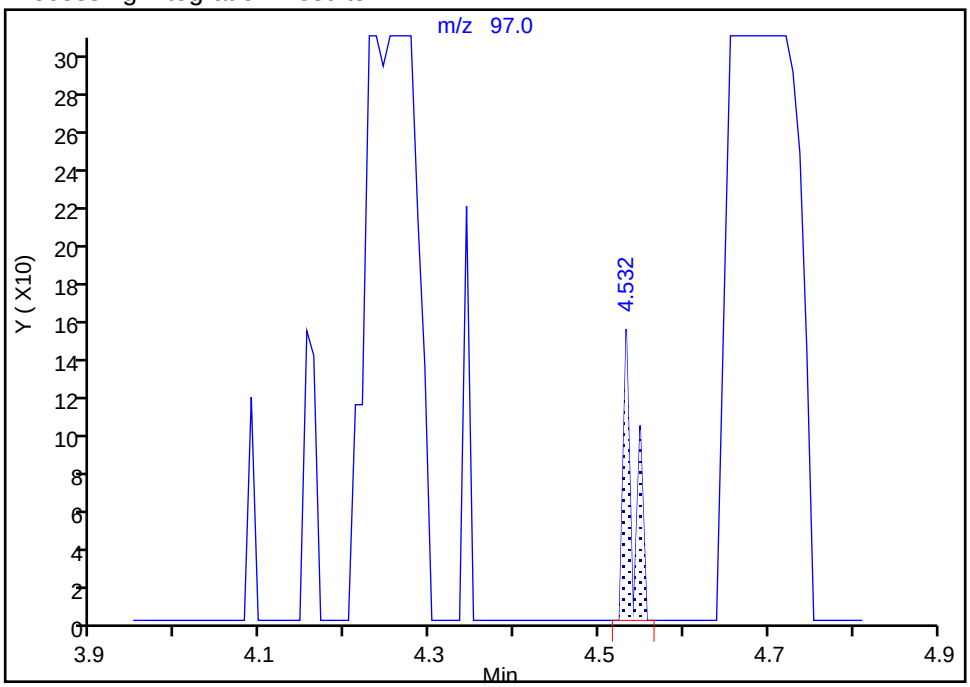
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

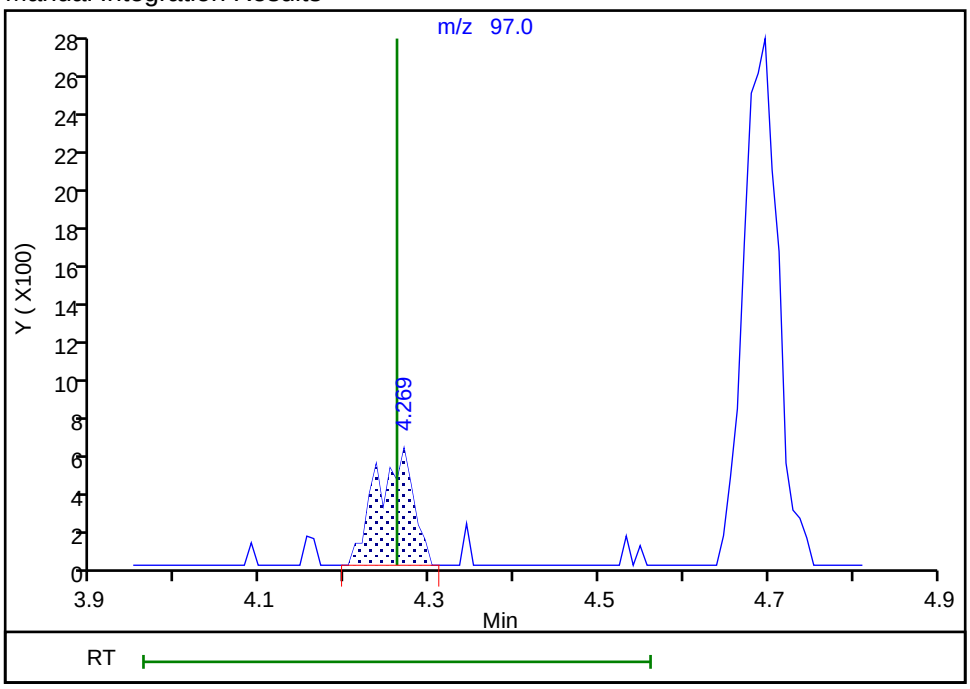
Processing Integration Results

RT: 4.53
Area: 127
Amount: 0.022365
Amount Units: ug/l



Manual Integration Results

RT: 4.27
Area: 1853
Amount: 1.073936
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:41:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

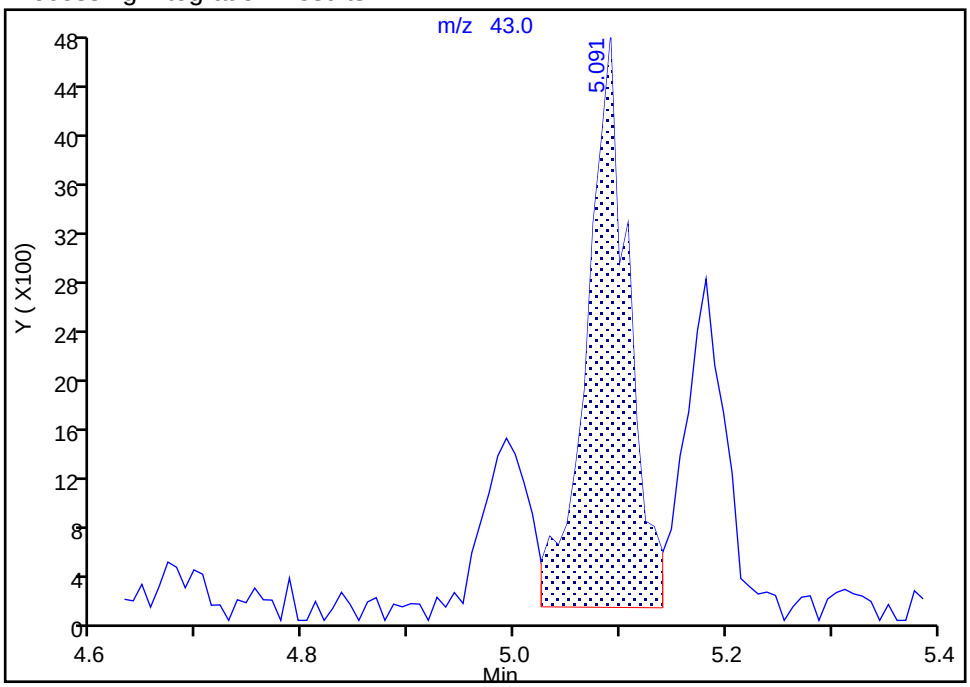
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

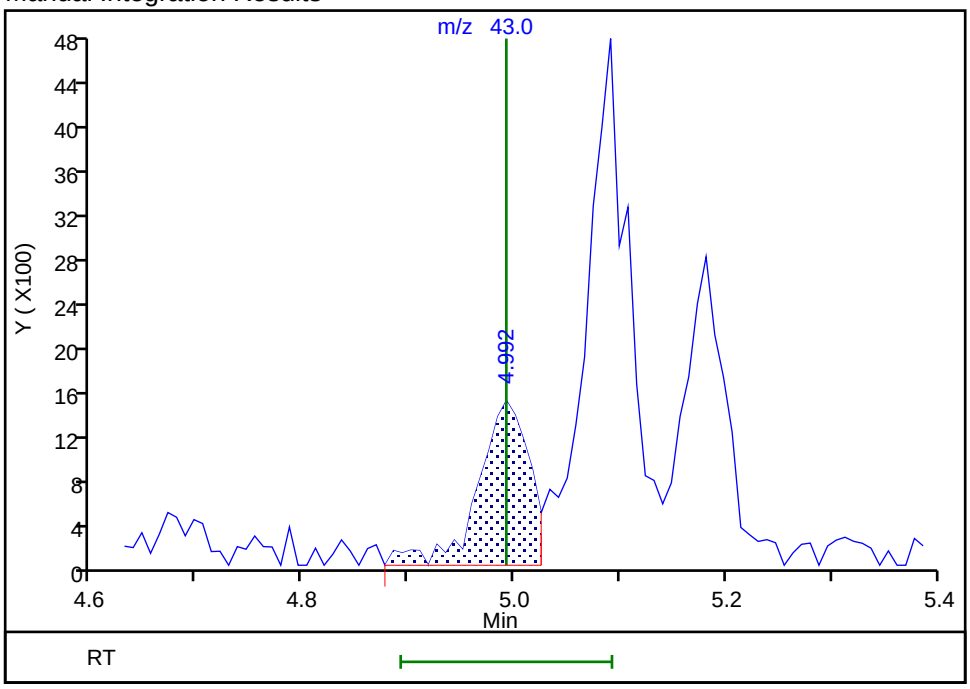
Processing Integration Results

RT: 5.09
Area: 12845
Amount: 98.213727
Amount Units: ug/l



Manual Integration Results

RT: 4.99
Area: 5057
Amount: 20.873765
Amount Units: ug/l



Reviewer: moroneyc, 05-Jun-2018 10:12:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

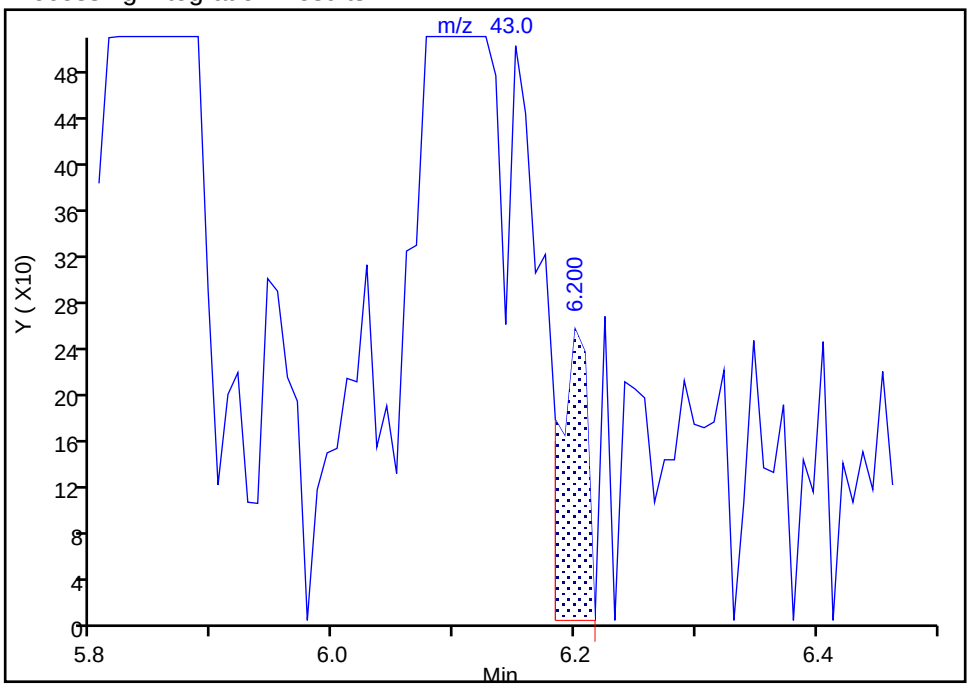
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 n-Propyl acetate, CAS: 109-60-4

Signal: 1

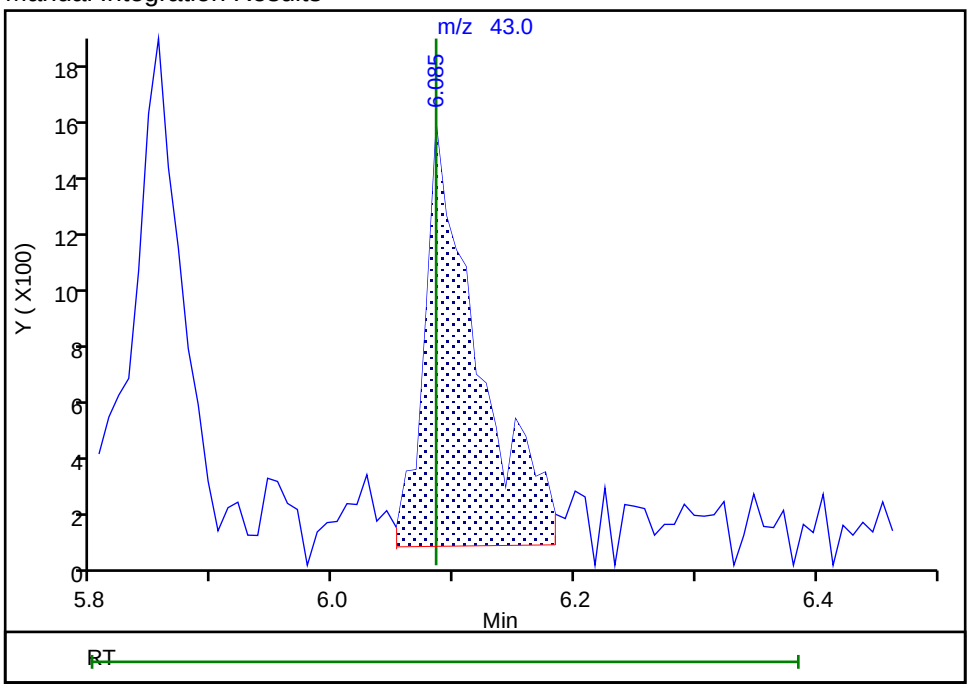
Processing Integration Results

RT: 6.20
Area: 406
Amount: 0.048713
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 4476
Amount: 0.957118
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:42:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

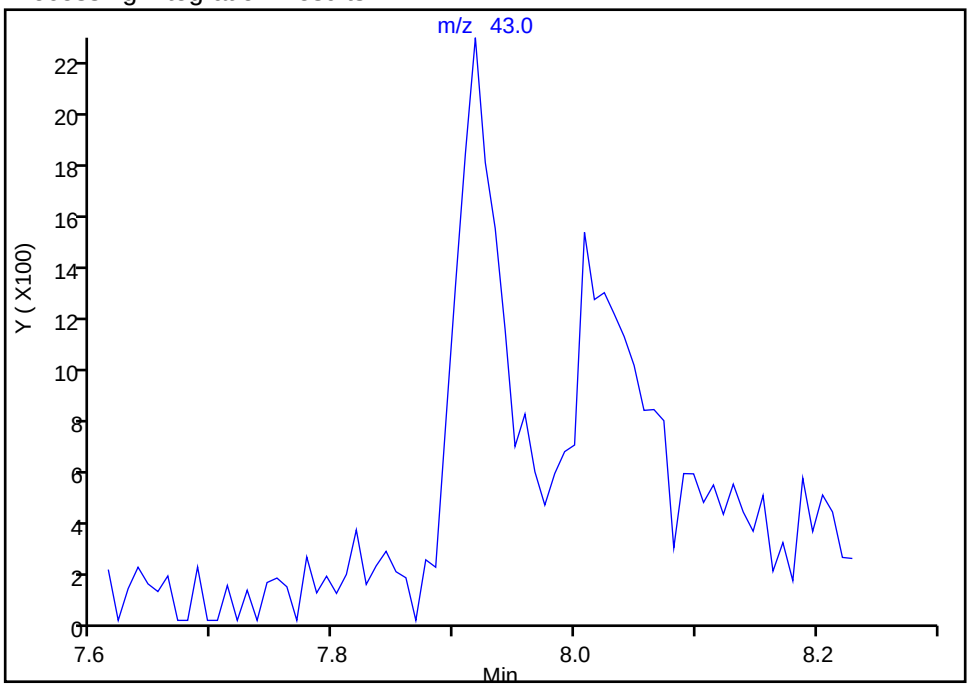
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 2-Hexanone, CAS: 591-78-6

Signal: 1

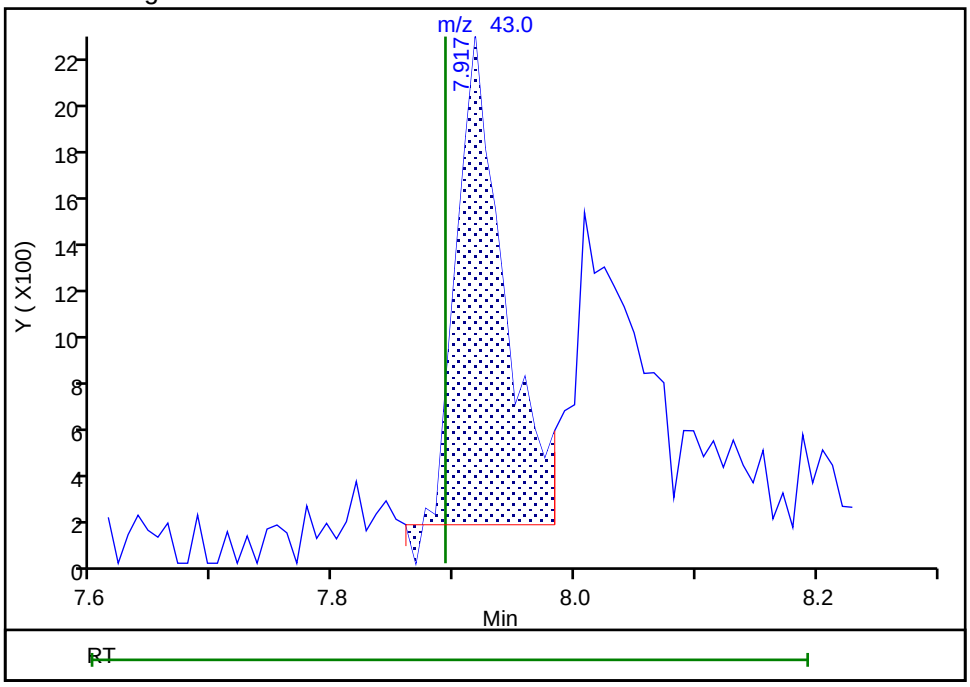
Not Detected
Expected RT: 7.89

Processing Integration Results



Manual Integration Results

RT: 7.92
Area: 5567
Amount: 5.025793
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:42:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

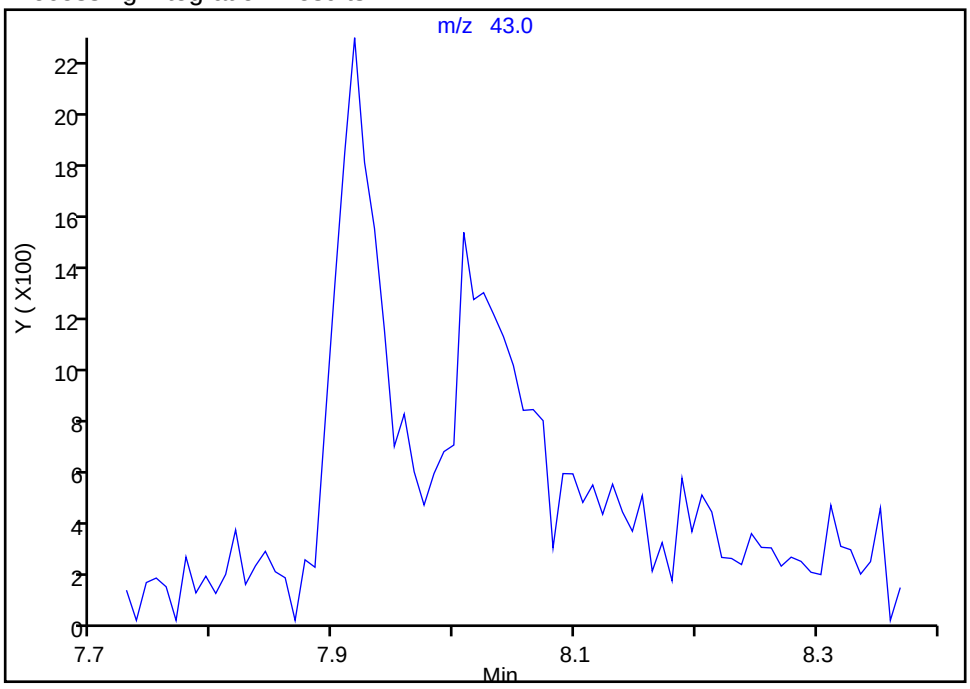
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 n-Butyl acetate, CAS: 123-86-4

Signal: 1

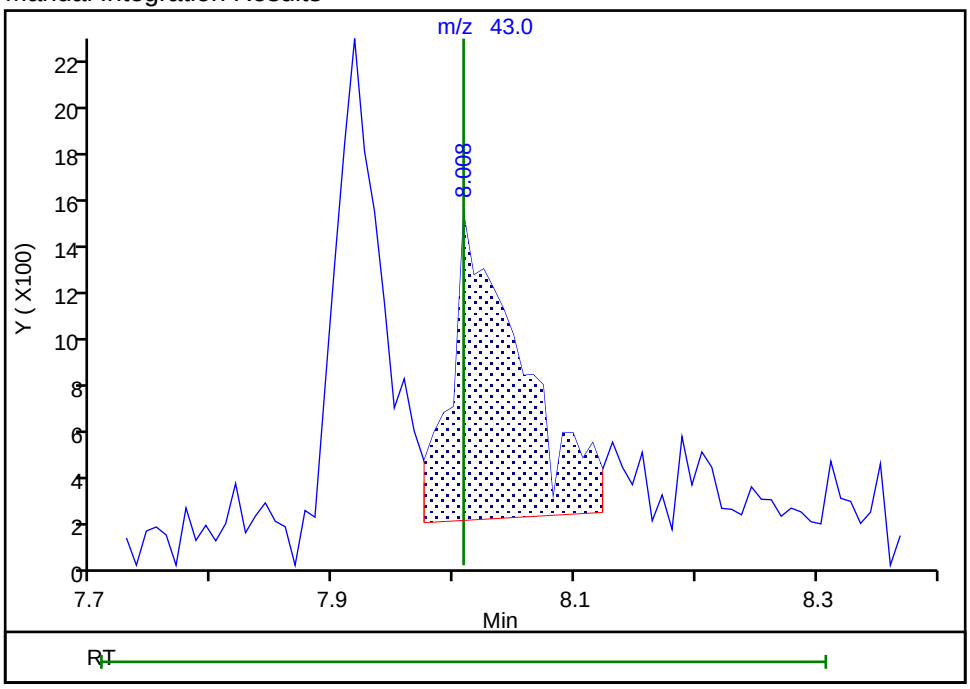
Not Detected
Expected RT: 8.01

Processing Integration Results



Manual Integration Results

RT: 8.01
Area: 5277
Amount: 0.968540
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:42:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

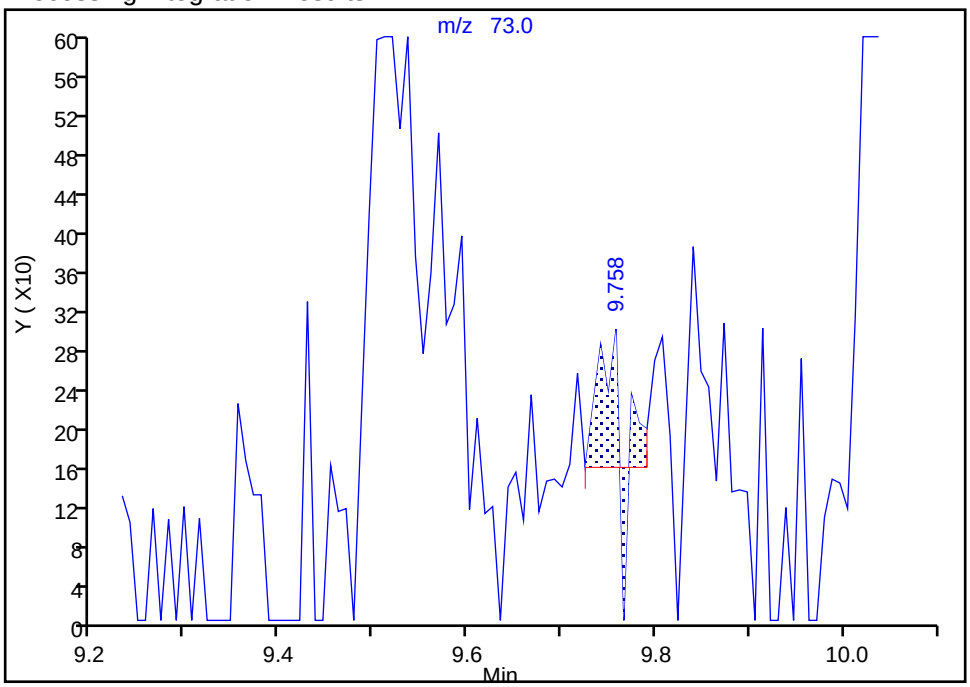
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

94 n-Butyl acrylate, CAS: 141-32-2

Signal: 1

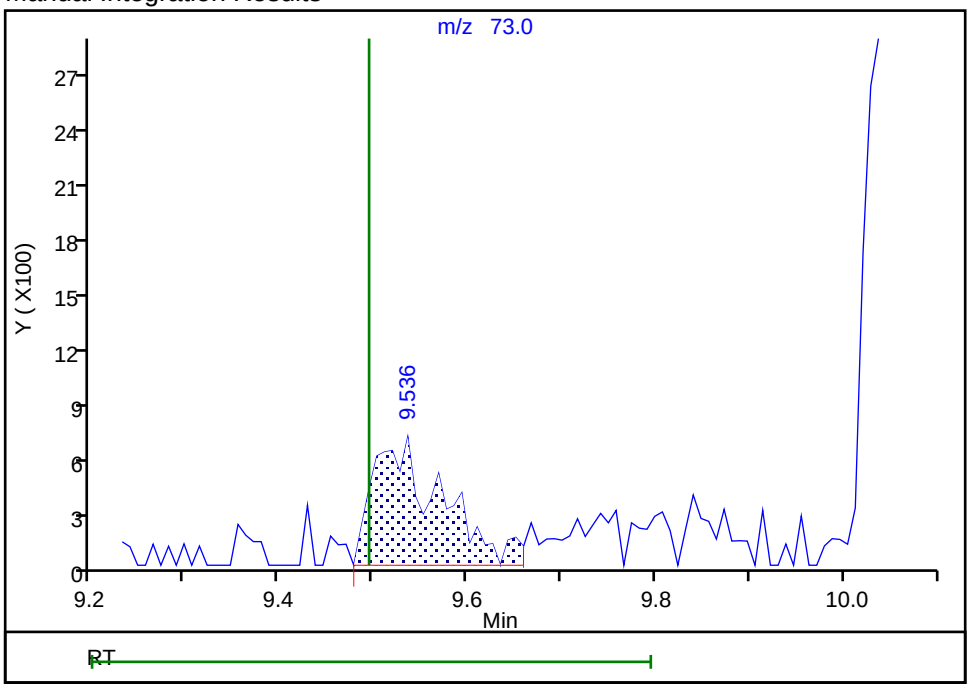
Processing Integration Results

RT: 9.76
Area: 200
Amount: 0.020184
Amount Units: ug/l



Manual Integration Results

RT: 9.54
Area: 3496
Amount: 1.146369
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:42:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

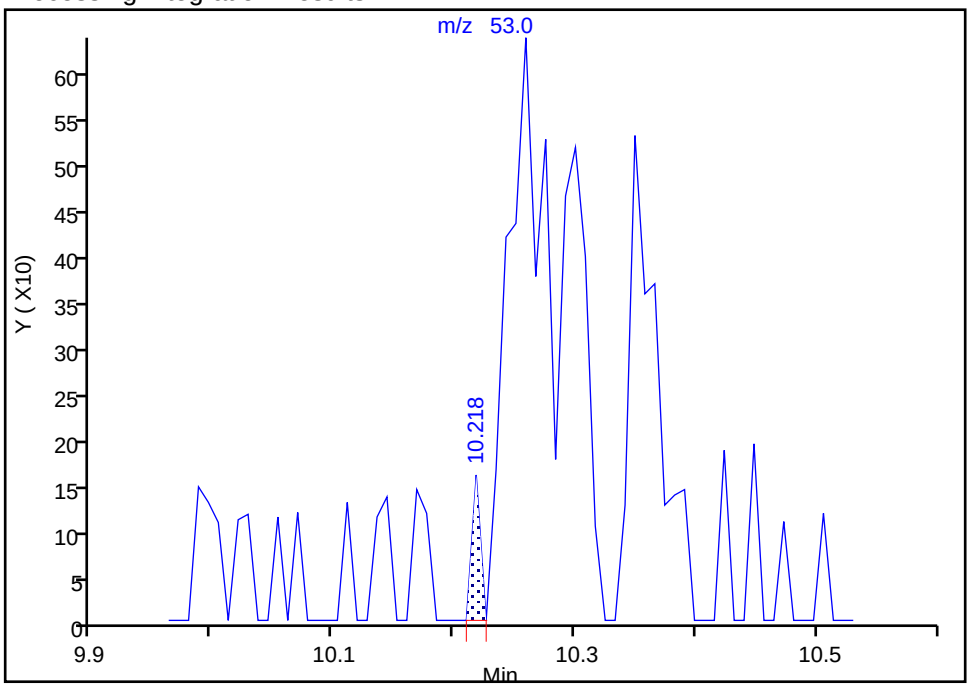
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65707.D
Injection Date: 05-Jun-2018 03:11:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

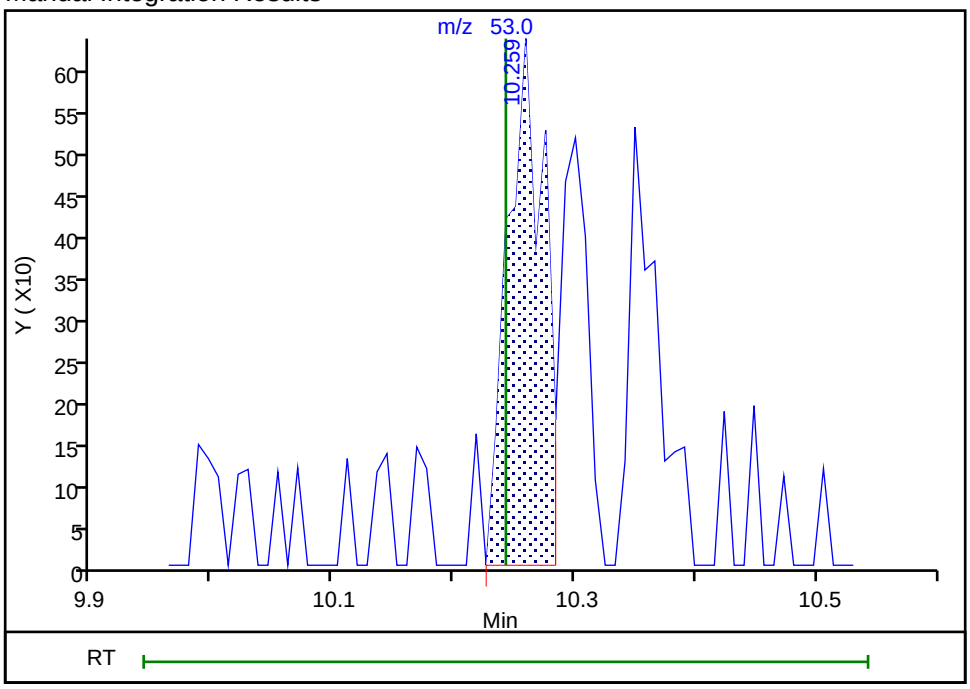
Processing Integration Results

RT: 10.22
Area: 78
Amount: 0.040532
Amount Units: ug/l



Manual Integration Results

RT: 10.26
Area: 1347
Amount: 1.115363
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 03:42:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65708.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jun-2018 03:35:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0073199-006
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:07:15 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 04:27:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.525	0.008	76	15092	5.00	5.32	
2 Dichlorodifluoromethane	85	1.558	1.557	0.001	99	38084	5.00	5.31	
3 Chloromethane	50	1.738	1.730	0.008	99	43349	5.00	5.55	
5 Butadiene	54	1.829	1.820	0.009	98	33549	5.00	5.27	
4 Vinyl chloride	62	1.829	1.820	0.009	98	40113	5.00	5.47	
6 Bromomethane	94	2.108	2.100	0.008	96	27473	5.00	5.66	
7 Chloroethane	64	2.166	2.157	0.009	99	23276	5.00	5.49	
8 Dichlorofluoromethane	67	2.346	2.338	0.008	98	59531	5.00	5.56	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	61	42559	5.00	5.51	
10 Pentane	72	2.371	2.355	0.016	95	8644	10.0	10.0	
12 Ethyl ether	59	2.552	2.544	0.008	95	19647	5.00	5.63	
11 Ethanol	46	2.691	2.552	0.139	70	2428	200.0	209.5	M
13 2-Methyl-1,3-butadiene	53	2.576	2.568	0.008	95	21415	5.00	5.22	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.601	0.008	95	20636	5.00	5.32	
15 Acrolein	56	2.733	2.724	0.009	50	7951	20.0	17.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.732	0.009	91	25026	5.00	5.56	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	22157	5.00	5.24	
18 Acetone	43	2.856	2.848	0.008	64	29237	25.0	25.2	
19 Iodomethane	142	2.913	2.905	0.008	98	38849	5.00	5.19	
20 Isopropyl alcohol	45	2.987	2.938	0.049	24	8662	50.0	50.6	
21 Carbon disulfide	76	2.946	2.946	0.000	99	89321	5.00	5.38	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	91	47422	5.00	5.32	
24 Methyl acetate	43	3.078	3.078	0.000	55	29506	10.0	11.1	
23 Cyclopentene	67	3.086	3.078	0.008	92	57891	5.00	5.28	
25 Acetonitrile	41	3.168	3.143	0.025	69	18949	50.0	45.4	
27 Methylene Chloride	84	3.193	3.184	0.009	96	28149	5.00	5.50	
* 26 TBA-d9 (IS)	65	3.217	3.201	0.016	0	112698	1000.0	1000.0	M
28 2-Methyl-2-propanol	59	3.300	3.267	0.033	42	16993	50.0	52.2	
29 Methyl tert-butyl ether	73	3.357	3.341	0.016	97	68197	5.00	5.37	
30 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	95	26004	5.00	5.51	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.456	3.447	0.009	95	83263	50.0	53.2	
32 Hexane	43	3.521	3.521	0.000	94	22131	5.00	5.38	
33 Isopropyl ether	45	3.727	3.719	0.008	94	85787	5.00	5.43	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	98	46863	5.00	5.46	
35 Vinyl acetate	86	3.776	3.768	0.008	100	7865	10.0	9.80	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	92	21478	5.00	5.35	
37 Tert-butyl ethyl ether	59	4.039	4.031	0.008	90	76707	5.00	5.26	
* 38 2-Butanone-d5	46	4.244	4.236	0.008	0	104864	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.261	-0.008	77	9546	5.00	5.58	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	95	27417	5.00	5.27	
42 Ethyl acetate	70	4.286	4.285	0.001	73	4013	10.0	11.0	
41 2-Butanone (MEK)	72	4.302	4.294	0.008	96	9869	25.0	26.4	
43 Methyl acrylate	55	4.351	4.343	0.008	80	16350	5.00	5.34	
44 Propionitrile	54	4.433	4.425	0.008	80	25216	50.0	50.2	
45 Chlorobromomethane	128	4.507	4.499	0.008	91	12993	5.00	5.56	
46 Tetrahydrofuran	72	4.516	4.507	0.009	55	4987	10.0	11.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	78570	50.0	51.1	
48 Chloroform	83	4.557	4.548	0.009	99	43498	5.00	5.54	
49 Cyclohexane	84	4.680	4.680	0.000	90	37353	5.00	5.43	
50 1,1,1-Trichloroethane	97	4.696	4.696	0.000	63	36589	5.00	5.27	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	81390	50.0	52.9	
52 Carbon tetrachloride	117	4.820	4.811	0.009	97	29201	5.00	5.23	
53 1,1-Dichloropropene	75	4.844	4.836	0.008	97	33028	5.00	5.31	
54 Isobutyl alcohol	43	4.992	4.992	0.000	65	25214	125.0	114.1	
55 Benzene	78	5.042	5.041	0.001	97	99595	5.00	5.52	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	91436	50.0	48.9	
57 Isopropyl acetate	43	5.091	5.091	0.000	83	63015	5.00	5.25	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	92	79588	5.00	5.40	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	96	32161	5.00	5.47	
60 n-Heptane	57	5.189	5.181	0.008	93	18218	5.00	5.44	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	312018	50.0	50.0	
62 n-Butanol	56	5.682	5.658	0.024	23	4108	125.0	108.6	a
63 Trichloroethene	95	5.674	5.674	0.000	98	25096	5.00	5.45	
64 Methylcyclohexane	83	5.797	5.797	0.000	88	42609	5.00	5.32	
65 Ethyl acrylate	55	5.797	5.797	0.000	91	51313	5.00	5.03	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	90	24966	5.00	5.22	
* 67 1,4-Dioxane-d8	96	6.019	6.027	-0.008	0	9730	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.027	0.001	92	8439	10.0	9.22	
70 n-Propyl acetate	43	6.093	6.085	0.008	97	21245	5.00	4.58	
71 Dibromomethane	93	6.101	6.093	0.008	94	14306	5.00	5.32	
69 1,4-Dioxane	88	6.110	6.101	0.009	25	3002	100.0	75.1	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	30996	5.00	5.21	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	10555	5.00	4.52	
73 2-Nitropropane	41	6.570	6.570	0.000	83	10221	10.0	11.0	
75 Epichlorohydrin	57	6.693	6.685	0.008	99	32523	100.0	105.6	
76 cis-1,3-Dichloropropene	75	6.742	6.734	0.008	93	33807	5.00	5.04	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.898	0.001	96	85758	25.0	25.2	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	303594	50.0	50.0	
79 Toluene	91	7.063	7.055	0.008	93	97190	5.00	5.34	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	28576	5.00	5.16	
81 Ethyl methacrylate	69	7.433	7.433	0.000	91	22489	5.00	4.83	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	94	16805	5.00	5.43	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.671	7.671	0.000	97	22210	5.00	5.16	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	95	30138	5.00	5.20	
85 2-Hexanone	43	7.901	7.893	0.008	95	45127	25.0	24.7	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	29094	5.00	5.25	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	19099	5.00	5.07	
88 Ethylene Dibromide	107	8.221	8.221	0.000	98	17636	5.00	5.49	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	87	208815	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	95	58672	5.00	5.34	
91 Ethylbenzene	106	8.903	8.903	0.000	99	34596	5.00	5.32	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	94	21117	5.00	5.05	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	40305	5.00	5.21	
94 n-Butyl acrylate	73	9.495	9.495	0.000	62	14870	5.00	4.79	
95 o-Xylene	106	9.503	9.503	0.000	94	41972	5.00	5.24	
96 Styrene	104	9.536	9.536	0.000	97	63443	5.00	5.28	
97 Amyl acetate (mixed isomer	43	9.725	9.717	0.008	91	30329	5.00	4.69	
98 Bromoform	173	9.742	9.742	0.000	97	12087	5.00	5.27	
99 Isopropylbenzene	105	9.848	9.848	0.000	96	107580	5.00	5.37	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	89339	50.0	51.8	
101 Bromobenzene	156	10.152	10.152	0.000	98	26183	5.00	5.25	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	97	27118	5.00	5.56	
103 N-Propylbenzene	91	10.210	10.210	0.000	99	131352	5.00	5.41	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	96	7092	5.00	5.34	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	76	5929	5.00	4.85	
106 2-Chlorotoluene	91	10.300	10.300	0.000	94	90565	5.00	5.30	
107 4-Ethyltoluene	105	10.300	10.300	0.000	89	104764	5.00	5.17	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	93	94400	5.00	5.31	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	82847	5.00	5.43	
110 Butyl Methacrylate	87	10.440	10.432	0.008	90	27817	5.00	4.82	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	69529	5.00	4.96	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	95308	5.00	5.30	
113 sec-Butylbenzene	105	10.752	10.752	0.000	99	113201	5.00	5.29	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	95560	5.00	5.23	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	95	51534	5.00	5.24	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	96	121873	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	53375	5.00	5.35	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	99	100899	5.00	5.32	
118 Benzyl chloride	91	11.023	11.023	0.000	98	45273	5.00	4.88	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	94	99979	5.00	5.41	
120 p-Diethylbenzene	119	11.106	11.106	0.000	92	54562	5.00	5.03	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	52083	5.00	5.23	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	52175	5.00	5.36	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	97	91609	5.00	5.18	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	4726	5.00	4.96	
125 1,3,5-Trichlorobenzene	180	11.747	11.738	0.009	97	40342	5.00	5.38	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	33543	5.00	5.19	
127 Hexachlorobutadiene	225	12.207	12.198	0.009	94	15284	5.00	5.13	
128 Naphthalene	128	12.313	12.313	0.000	99	73332	5.00	5.00	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	94	30460	5.00	5.10	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.8	
S 131 Xylenes, Total	100				0		10.0	10.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00257	Amount Added:	1.00	Units: uL	
MIX I Hi_00094	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

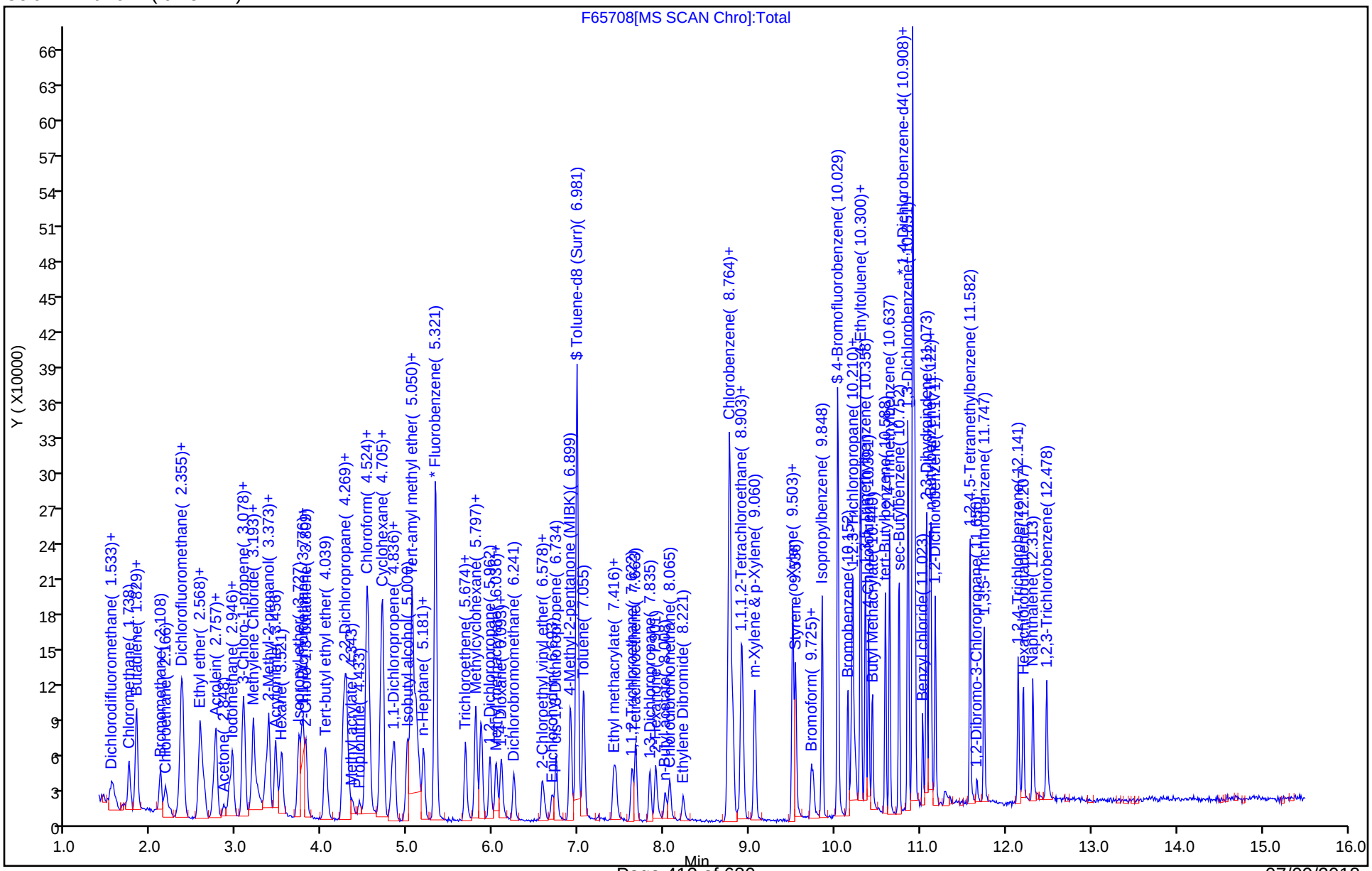
Report Date: 07-Jun-2018 13:07:22 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65708.D

Injection Date:	05-Jun-2018 03:35:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

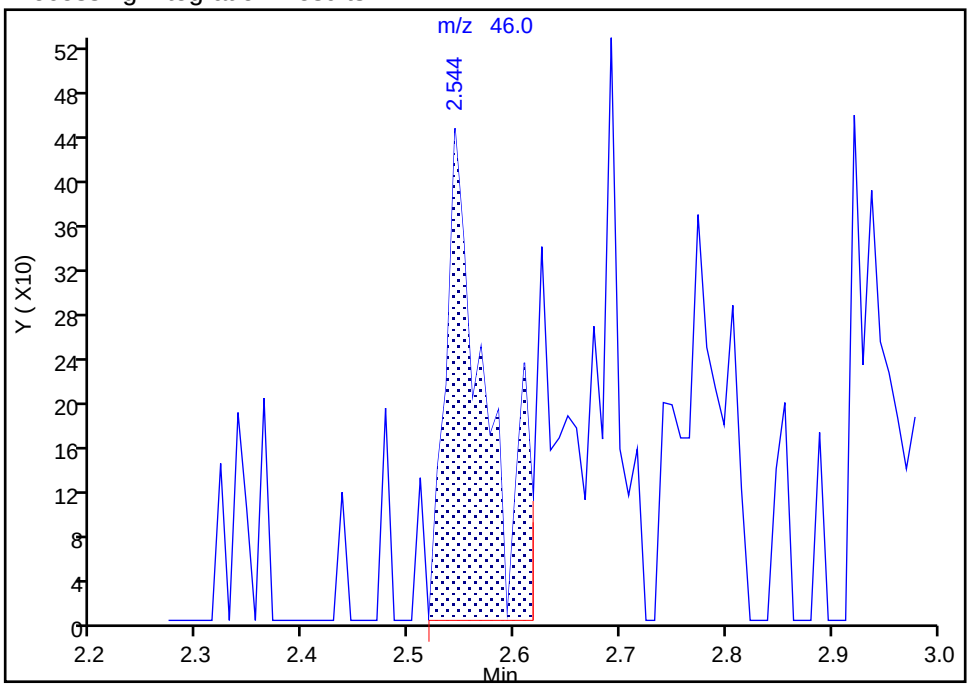
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65708.D
Injection Date: 05-Jun-2018 03:35:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

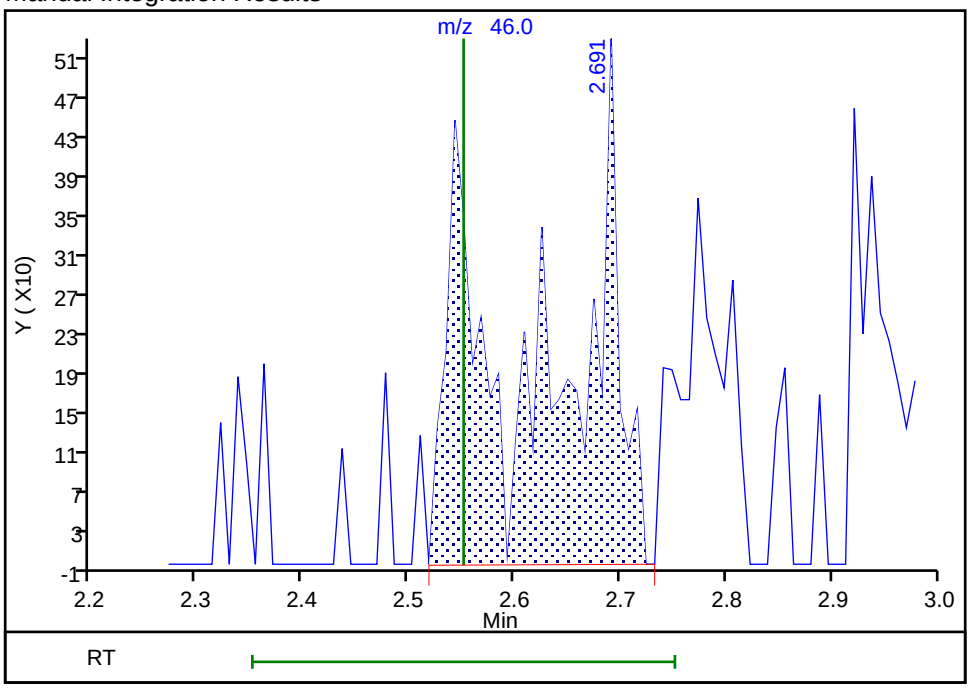
Processing Integration Results

RT: 2.54
Area: 1187
Amount: 120.2060
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 2428
Amount: 209.4674
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 10:30:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

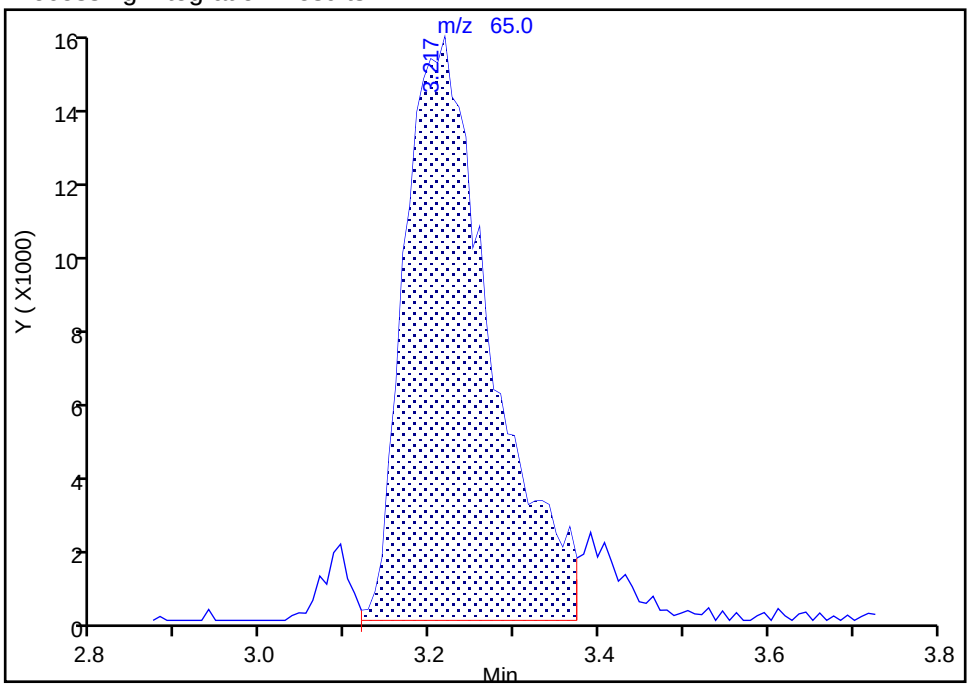
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65708.D
Injection Date: 05-Jun-2018 03:35:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 26 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

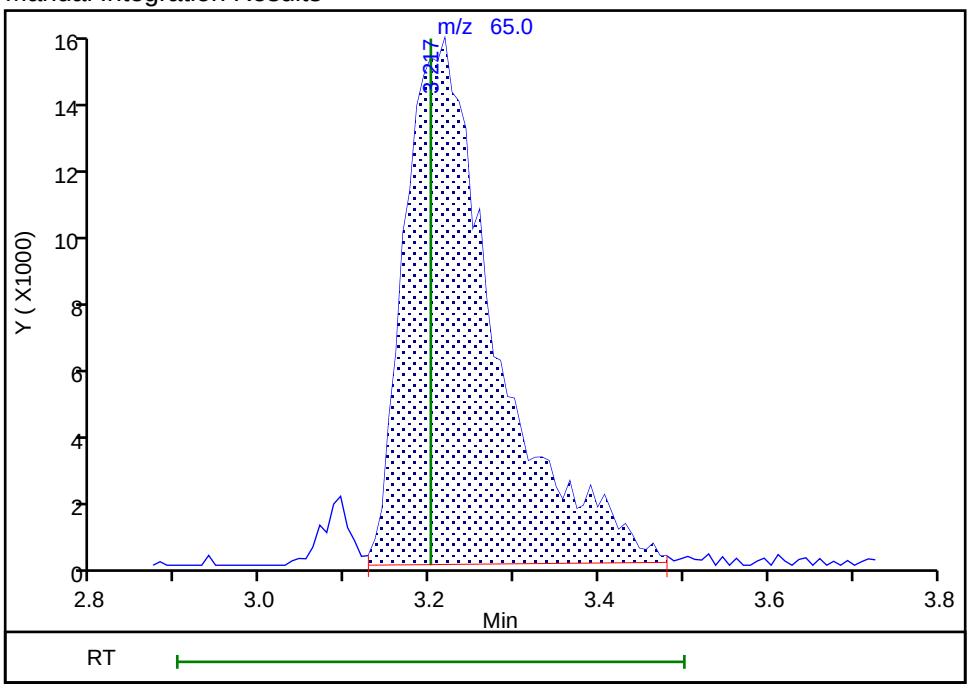
Processing Integration Results

RT: 3.22
Area: 106698
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.22
Area: 112698
Amount: 1000.0000
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 10:41:55
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

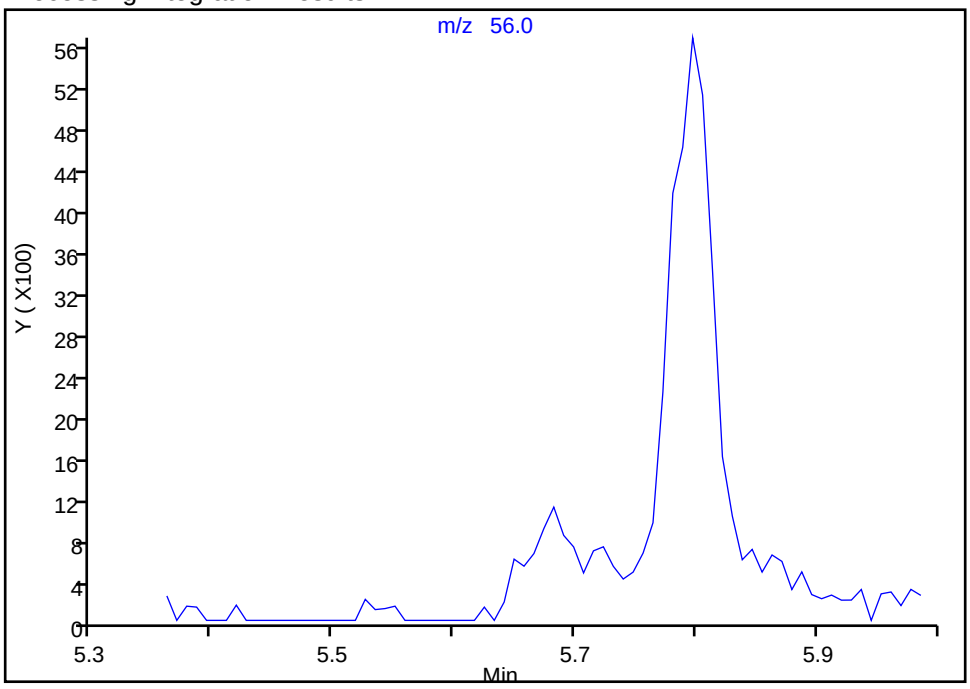
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65708.D
Injection Date: 05-Jun-2018 03:35:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

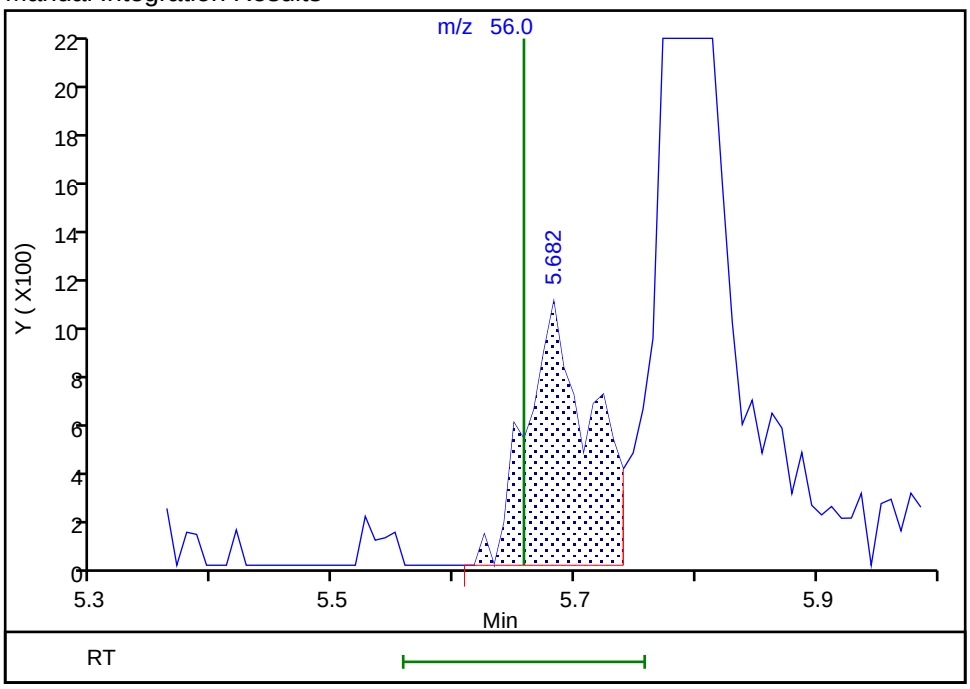
Not Detected
Expected RT: 5.66

Processing Integration Results



Manual Integration Results

RT: 5.68
Area: 4108
Amount: 108.5652
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 04:28:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65709.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 05-Jun-2018 03:59:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0073199-007
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:07:35 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 05:03:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.525	0.000	91	55519	20.0	19.3	
2 Dichlorodifluoromethane	85	1.557	1.557	0.000	99	140900	20.0	19.4	
3 Chloromethane	50	1.730	1.730	0.000	99	154611	20.0	19.6	
4 Vinyl chloride	62	1.820	1.820	0.000	98	143809	20.0	19.4	
5 Butadiene	54	1.820	1.820	0.000	95	117148	20.0	18.5	
6 Bromomethane	94	2.100	2.100	0.000	98	90379	20.0	18.4	
7 Chloroethane	64	2.157	2.157	0.000	100	81808	20.0	19.1	
8 Dichlorofluoromethane	67	2.338	2.338	0.000	99	214119	20.0	19.8	
10 Pentane	72	2.355	2.355	0.000	98	32453	40.0	44.4	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	96	150492	20.0	19.2	
12 Ethyl ether	59	2.544	2.544	0.000	94	71507	20.0	20.2	
11 Ethanol	46	2.552	2.552	0.000	68	7230	800.0	739.8	M
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	98	81836	20.0	19.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.601	2.601	0.000	86	78404	20.0	20.0	
15 Acrolein	56	2.724	2.724	0.000	36	15127	40.0	40.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.732	2.732	0.000	95	93550	20.0	20.5	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	96	83850	20.0	19.6	
18 Acetone	43	2.848	2.848	0.000	89	97832	100.0	97.1	
19 Iodomethane	142	2.905	2.905	0.000	98	150106	20.0	19.8	
20 Isopropyl alcohol	45	2.938	2.938	0.000	24	27394	200.0	189.1	
21 Carbon disulfide	76	2.946	2.946	0.000	99	337699	20.0	20.1	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	92	181735	20.0	20.2	
23 Cyclopentene	67	3.078	3.078	0.000	94	222881	20.0	20.1	
24 Methyl acetate	43	3.078	3.078	0.000	56	104096	40.0	38.8	
25 Acetonitrile	41	3.143	3.143	0.000	95	85423	200.0	217.6	
27 Methylene Chloride	84	3.184	3.184	0.000	94	102929	20.0	19.9	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	95436	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.267	3.267	0.000	93	57392	200.0	208.0	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	259092	20.0	20.2	
30 trans-1,2-Dichloroethene	96	3.373	3.373	0.000	97	92502	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.447	0.000	95	301210	200.0	190.3	
32 Hexane	43	3.521	3.521	0.000	94	82974	20.0	19.9	
33 Isopropyl ether	45	3.719	3.719	0.000	97	319767	20.0	20.0	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	178432	20.0	20.5	
35 Vinyl acetate	86	3.768	3.768	0.000	100	33510	40.0	41.2	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	92	79642	20.0	19.6	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	293839	20.0	19.9	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	104292	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	95	34208	20.0	19.8	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	94	105442	20.0	20.0	
42 Ethyl acetate	70	4.285	4.285	0.000	96	15568	40.0	42.7	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	96	36705	100.0	98.6	
43 Methyl acrylate	55	4.343	4.343	0.000	90	58370	20.0	18.7	
44 Propionitrile	54	4.425	4.425	0.000	96	92810	200.0	218.3	
45 Chlorobromomethane	128	4.499	4.499	0.000	92	47240	20.0	20.0	
46 Tetrahydrofuran	72	4.507	4.507	0.000	79	16055	40.0	35.5	
47 Methacrylonitrile	67	4.524	4.524	0.000	92	313305	200.0	201.3	
48 Chloroform	83	4.548	4.548	0.000	98	162773	20.0	20.5	
49 Cyclohexane	84	4.680	4.680	0.000	92	144770	20.0	20.8	
50 1,1,1-Trichloroethane	97	4.696	4.696	0.000	98	140841	20.0	20.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	80780	50.0	51.9	
52 Carbon tetrachloride	117	4.811	4.811	0.000	97	111676	20.0	19.8	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	96	126286	20.0	20.1	
54 Isobutyl alcohol	43	4.992	4.992	0.000	36	100821	500.0	539.0	a
55 Benzene	78	5.041	5.041	0.000	96	378715	20.0	20.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	90949	50.0	48.1	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	296768	20.0	19.9	
57 Isopropyl acetate	43	5.091	5.091	0.000	94	233304	20.0	19.2	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	96	114589	20.0	19.3	
60 n-Heptane	57	5.181	5.181	0.000	93	71165	20.0	21.0	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	315787	50.0	50.0	
62 n-Butanol	56	5.658	5.658	0.000	80	17781	500.0	464.2	
63 Trichloroethene	95	5.674	5.674	0.000	97	90379	20.0	19.4	
65 Ethyl acrylate	55	5.797	5.797	0.000	92	204598	20.0	19.8	
64 Methylcyclohexane	83	5.797	5.797	0.000	88	165817	20.0	20.5	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	90	94898	20.0	19.6	
68 Methyl methacrylate	100	6.027	6.027	0.000	93	35997	40.0	38.9	
* 67 1,4-Dioxane-d8	96	6.027	6.027	0.000	0	8314	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	91111	20.0	19.4	
71 Dibromomethane	93	6.093	6.093	0.000	80	53594	20.0	19.7	
69 1,4-Dioxane	88	6.101	6.101	0.000	27	6680	400.0	196.3	a
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	117374	20.0	19.5	
73 2-Nitropropane	41	6.570	6.570	0.000	80	32296	40.0	37.0	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	78	44598	20.0	18.8	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	118976	400.0	388.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	92	134648	20.0	19.7	
77 4-Methyl-2-pentanone (MIBK	43	6.898	6.898	0.000	96	353446	100.0	104.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	311994	50.0	50.4	
79 Toluene	91	7.055	7.055	0.000	93	378293	20.0	20.4	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	108977	20.0	19.3	
81 Ethyl methacrylate	69	7.433	7.433	0.000	89	95125	20.0	20.0	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	62280	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.671	7.671	0.000	97	88247	20.0	20.1	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	94	115453	20.0	19.5	
85 2-Hexanone	43	7.893	7.893	0.000	96	184222	100.0	94.1	
86 n-Butyl acetate	43	8.008	8.008	0.000	99	110679	20.0	19.6	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	75779	20.0	19.7	
88 Ethylene Dibromide	107	8.221	8.221	0.000	98	64915	20.0	19.8	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	88	212945	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	94	222658	20.0	19.9	
91 Ethylbenzene	106	8.903	8.903	0.000	99	132132	20.0	19.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	95	85765	20.0	20.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	162501	20.0	20.6	
94 n-Butyl acrylate	73	9.495	9.495	0.000	98	58810	20.0	18.6	
95 o-Xylene	106	9.503	9.503	0.000	93	166858	20.0	20.4	
96 Styrene	104	9.536	9.536	0.000	96	256992	20.0	21.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	133240	20.0	19.4	
98 Bromoform	173	9.742	9.742	0.000	96	46072	20.0	19.7	
99 Isopropylbenzene	105	9.848	9.848	0.000	96	435331	20.0	21.3	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	88	87576	50.0	49.8	
101 Bromobenzene	156	10.152	10.152	0.000	98	99700	20.0	20.1	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	93127	20.0	19.2	
103 N-Propylbenzene	91	10.210	10.210	0.000	99	515435	20.0	21.3	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	97	27316	20.0	20.7	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	84	23208	20.0	19.1	
107 4-Ethyltoluene	105	10.300	10.300	0.000	89	427649	20.0	21.2	
106 2-Chlorotoluene	91	10.300	10.300	0.000	96	353064	20.0	20.8	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	93	373809	20.0	21.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	309087	20.0	20.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	92	116941	20.0	19.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	291339	20.0	20.9	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	382464	20.0	21.4	
113 sec-Butylbenzene	105	10.752	10.752	0.000	99	459545	20.0	21.6	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	97	386566	20.0	21.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	94	198543	20.0	20.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	121387	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	93	201846	20.0	20.3	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	99	394281	20.0	20.9	
118 Benzyl chloride	91	11.023	11.023	0.000	99	191218	20.0	20.7	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	383617	20.0	20.9	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	219034	20.0	20.3	
121 n-Butylbenzene	92	11.122	11.122	0.000	97	205224	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	196840	20.0	20.3	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	371152	20.0	21.1	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	97	17499	20.0	19.7	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	150364	20.0	20.2	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	131250	20.0	20.4	
127 Hexachlorobutadiene	225	12.198	12.198	0.000	94	57849	20.0	19.5	
128 Naphthalene	128	12.313	12.313	0.000	99	280271	20.0	19.2	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	113710	20.0	19.1	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.4	
S 131 Xylenes, Total	100				0		40.0	41.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
MIX I Hi_00094	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	2.00	Units: uL	
Ethanol mix_00016	Amount Added:	2.00	Units: uL	
GAS Hi_00257	Amount Added:	2.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

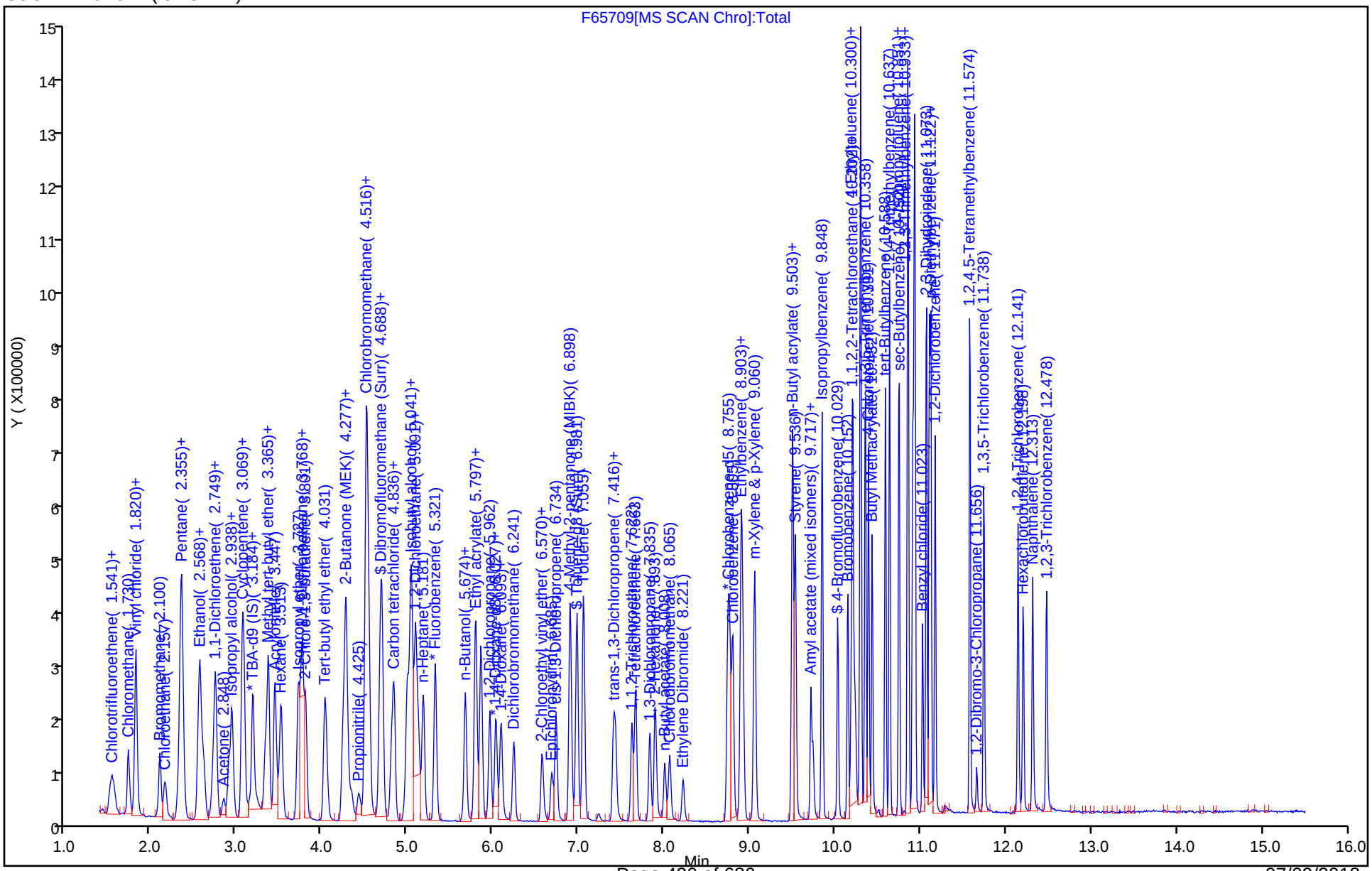
Report Date: 07-Jun-2018 13:07:41 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65709.D

Injection Date:	05-Jun-2018 03:59:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

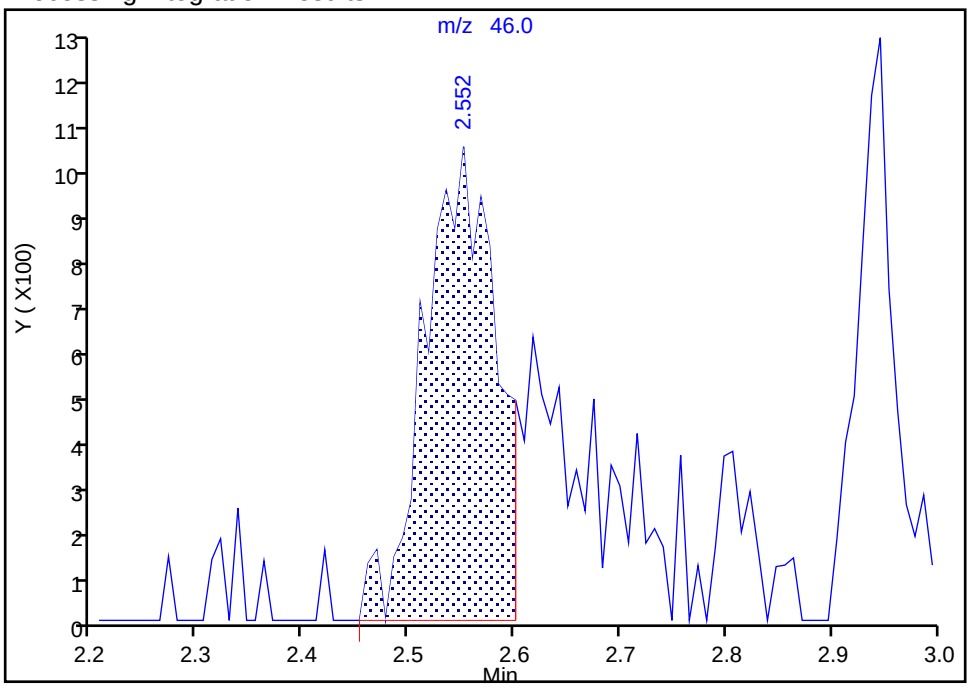
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65709.D
Injection Date: 05-Jun-2018 03:59:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

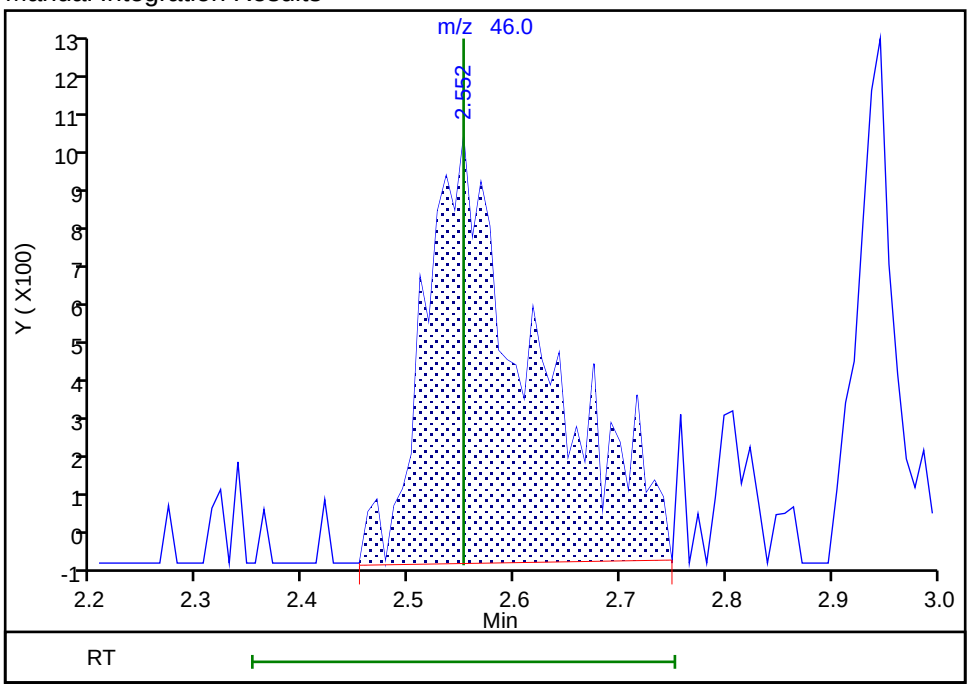
Processing Integration Results

RT: 2.55
Area: 4617
Amount: 801.1741
Amount Units: ug/l



Manual Integration Results

RT: 2.55
Area: 7230
Amount: 739.8150
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 10:28:15
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

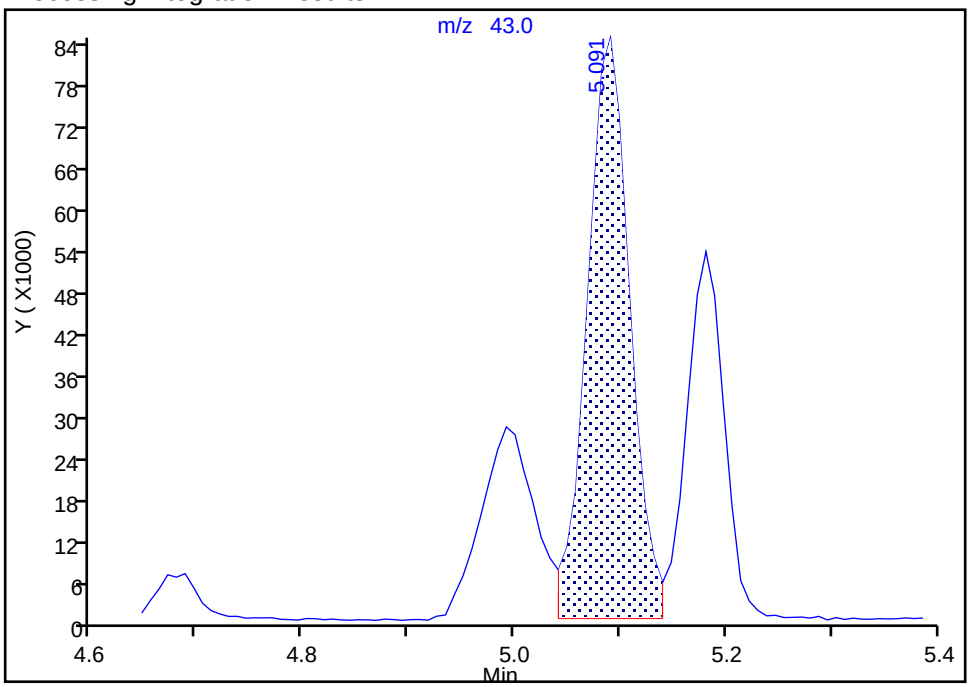
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65709.D
Injection Date: 05-Jun-2018 03:59:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

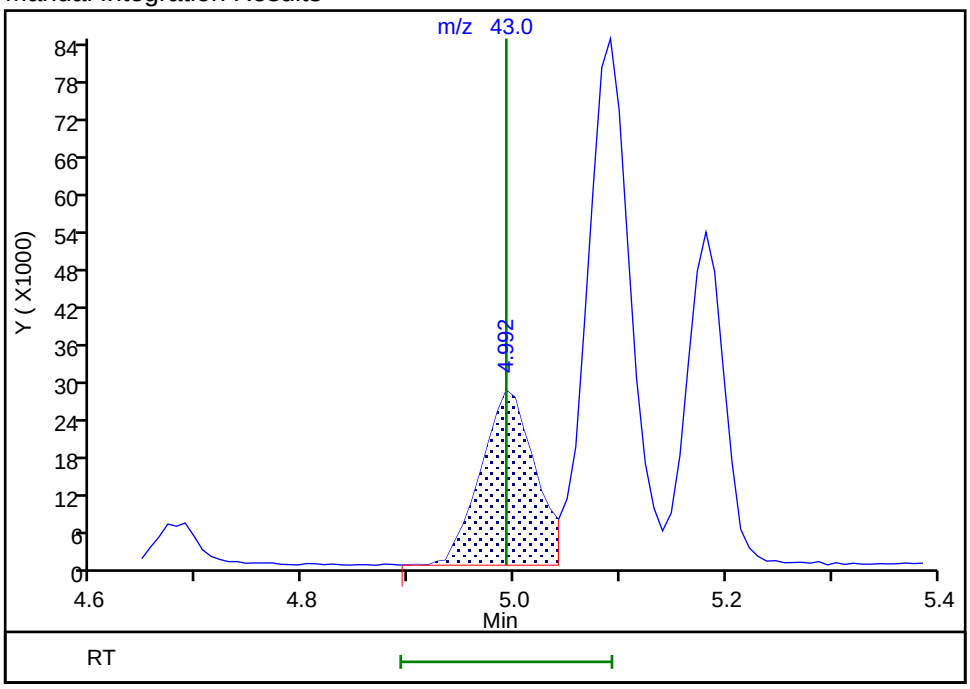
Processing Integration Results

RT: 5.09
Area: 238547
Amount: 706.7202
Amount Units: ug/l



Manual Integration Results

RT: 4.99
Area: 100821
Amount: 538.9662
Amount Units: ug/l



Reviewer: moroneyc, 05-Jun-2018 10:03:51
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

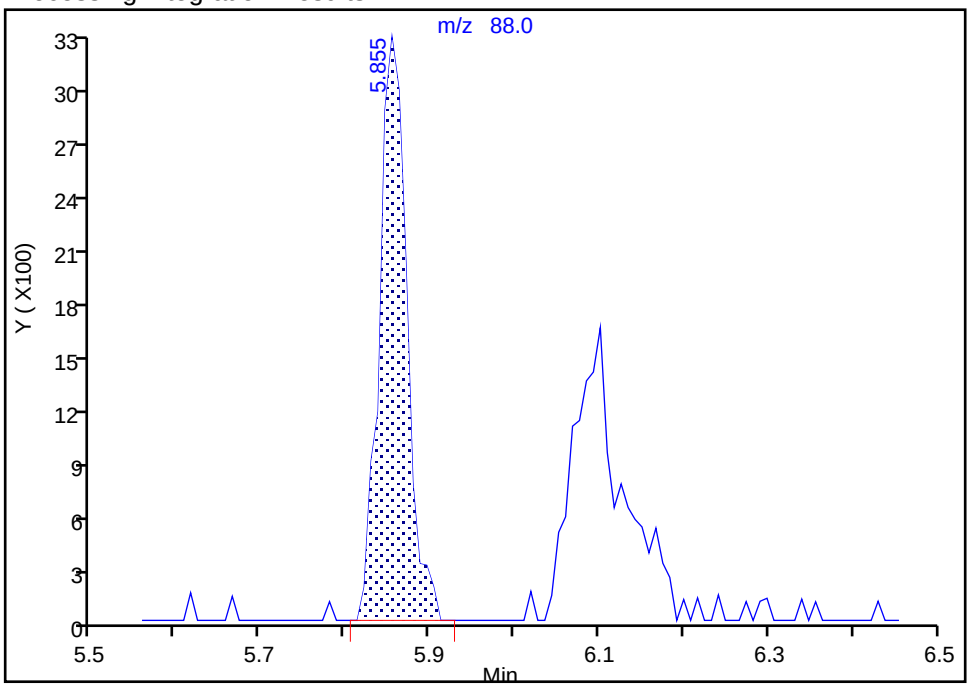
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65709.D
Injection Date: 05-Jun-2018 03:59:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

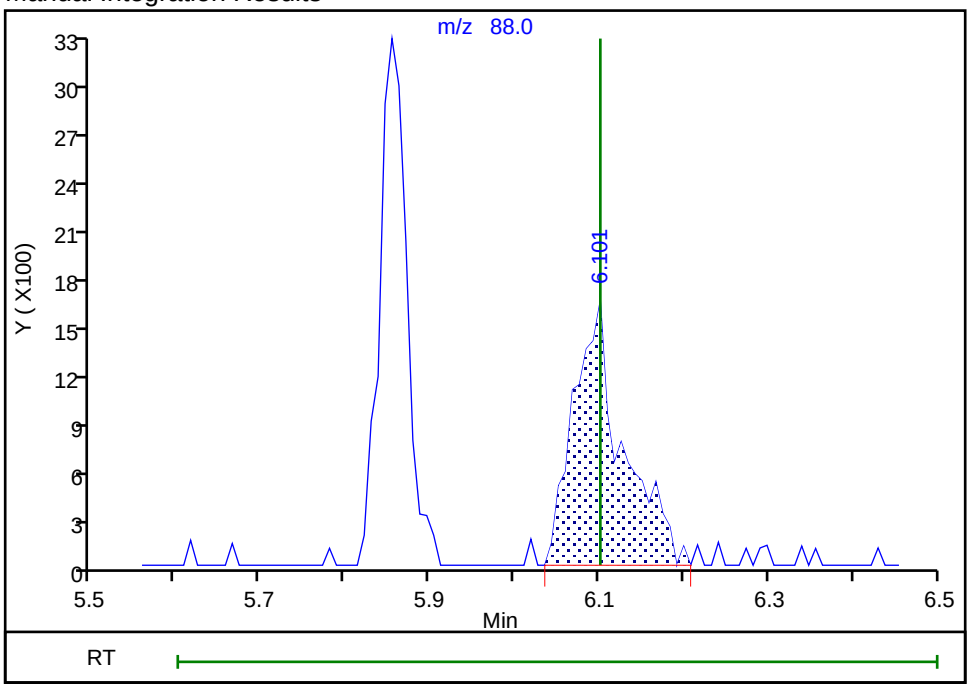
Processing Integration Results

RT: 5.85
Area: 7432
Amount: 358.4075
Amount Units: ug/l



Manual Integration Results

RT: 6.10
Area: 6680
Amount: 196.3416
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 04:29:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65710.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 05-Jun-2018 04:22:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0073199-008
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:07:56 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 05:23:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.525	0.008	89	142666	50.0	48.9	
2 Dichlorodifluoromethane	85	1.566	1.557	0.009	99	356231	50.0	48.3	
3 Chloromethane	50	1.739	1.730	0.009	99	372506	50.0	46.4	
5 Butadiene	54	1.829	1.820	0.009	97	300218	50.0	46.9	
4 Vinyl chloride	62	1.829	1.820	0.009	98	357370	50.0	47.4	
6 Bromomethane	94	2.108	2.100	0.008	99	230851	50.0	46.2	
7 Chloroethane	64	2.166	2.157	0.009	100	205699	50.0	47.2	
8 Dichlorofluoromethane	67	2.338	2.338	0.000	98	526038	50.0	47.8	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	98	373746	50.0	47.0	
10 Pentane	72	2.363	2.355	0.008	97	78720	100.0	95.0	
12 Ethyl ether	59	2.552	2.544	0.008	95	176612	50.0	49.2	
11 Ethanol	46	2.552	2.552	0.000	68	15993	2000.0	1452.4	M
13 2-Methyl-1,3-butadiene	53	2.577	2.568	0.009	96	203078	50.0	48.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.610	2.601	0.009	92	196761	50.0	49.3	
15 Acrolein	56	2.725	2.724	0.001	38	40302	100.0	94.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.732	0.009	96	231164	50.0	49.9	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	97	214842	50.0	49.4	
18 Acetone	43	2.848	2.848	0.000	87	247290	250.0	247.6	
19 Iodomethane	142	2.914	2.905	0.009	98	371827	50.0	48.3	
20 Isopropyl alcohol	45	2.963	2.938	0.025	27	87444	500.0	532.5	
21 Carbon disulfide	76	2.946	2.946	0.000	99	835179	50.0	49.0	
22 3-Chloro-1-propene	41	3.070	3.061	0.009	97	447413	50.0	48.8	
24 Methyl acetate	43	3.078	3.078	0.000	98	261514	100.0	95.9	
23 Cyclopentene	67	3.086	3.078	0.008	94	557525	50.0	49.5	
25 Acetonitrile	41	3.152	3.143	0.009	95	236800	500.0	528.5	
27 Methylene Chloride	84	3.193	3.184	0.009	94	255775	50.0	48.6	
* 26 TBA-d9 (IS)	65	3.218	3.201	0.017	0	108171	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.283	3.267	0.016	92	156668	500.0	501.0	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	97	659177	50.0	50.5	
30 trans-1,2-Dichloroethene	96	3.374	3.373	0.001	96	236090	50.0	48.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.447	0.001	95	772231	500.0	480.2	
32 Hexane	43	3.522	3.521	0.001	94	207924	50.0	49.1	
33 Isopropyl ether	45	3.727	3.719	0.008	96	809587	50.0	49.9	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	99	431972	50.0	48.9	
35 Vinyl acetate	86	3.776	3.768	0.008	100	82549	100.0	100.0	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	92	211002	50.0	51.1	
37 Tert-butyl ethyl ether	59	4.039	4.031	0.008	89	749441	50.0	50.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	107648	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	96	85261	50.0	48.5	
40 cis-1,2-Dichloroethene	96	4.278	4.277	0.001	94	266315	50.0	49.7	
42 Ethyl acetate	70	4.294	4.285	0.009	97	39472	100.0	105.0	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	96	98992	250.0	257.7	
43 Methyl acrylate	55	4.343	4.343	0.000	99	156804	50.0	49.7	a
44 Propionitrile	54	4.434	4.425	0.009	98	255647	500.0	530.5	
45 Chlorobromomethane	128	4.499	4.499	0.000	91	119657	50.0	49.7	
46 Tetrahydrofuran	72	4.516	4.507	0.009	50	46445	100.0	99.5	
47 Methacrylonitrile	67	4.524	4.524	0.000	92	792048	500.0	500.9	
48 Chloroform	83	4.549	4.548	0.001	98	396837	50.0	49.1	
49 Cyclohexane	84	4.688	4.680	0.008	91	366125	50.0	51.7	
50 1,1,1-Trichloroethane	97	4.697	4.696	0.001	98	350816	50.0	49.1	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	77450	50.0	48.9	
52 Carbon tetrachloride	117	4.820	4.811	0.009	98	285281	50.0	49.7	
53 1,1-Dichloropropene	75	4.845	4.836	0.009	97	320224	50.0	50.1	
54 Isobutyl alcohol	43	5.001	4.992	0.009	36	274244	1250.0	1293.4	
55 Benzene	78	5.042	5.041	0.001	96	947836	50.0	50.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	86699	50.0	45.1	
57 Isopropyl acetate	43	5.091	5.091	0.000	96	606451	50.0	49.1	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	94	753601	50.0	49.8	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	96	290583	50.0	48.1	
60 n-Heptane	57	5.181	5.181	0.000	93	174567	50.0	50.7	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	320871	50.0	50.0	
62 n-Butanol	56	5.658	5.658	0.000	89	62801	1250.0	1359.2	a
63 Trichloroethene	95	5.674	5.674	0.000	98	231237	50.0	48.8	
64 Methylcyclohexane	83	5.798	5.797	0.001	87	416832	50.0	50.6	
65 Ethyl acrylate	55	5.789	5.797	-0.008	91	535081	50.0	51.0	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	91	242057	50.0	49.2	
* 67 1,4-Dioxane-d8	96	6.028	6.027	0.001	0	10097	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.027	0.009	89	98978	100.0	105.2	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	242383	50.0	50.9	
71 Dibromomethane	93	6.093	6.093	0.000	97	132719	50.0	48.0	
69 1,4-Dioxane	88	6.085	6.101	-0.016	28	19253	1000.0	470.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	100	303140	50.0	49.6	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	87	120560	50.0	50.1	
73 2-Nitropropane	41	6.578	6.570	0.008	85	83029	100.0	95.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	330354	1000.0	1045.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	92	348556	50.0	50.4	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.898	0.001	96	945885	250.0	271.2	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	322124	50.0	51.5	
79 Toluene	91	7.055	7.055	0.000	94	952842	50.0	50.8	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	286351	50.0	50.1	
81 Ethyl methacrylate	69	7.433	7.433	0.000	90	256546	50.0	53.5	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	95	157571	50.0	49.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.671	7.671	0.000	96	223240	50.0	50.3	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	93	302610	50.0	50.7	
85 2-Hexanone	43	7.893	7.893	0.000	96	513244	250.0	250.9	
86 n-Butyl acetate	43	8.008	8.008	0.000	99	301321	50.0	52.8	
87 Chlorodibromomethane	129	8.066	8.065	0.001	99	198562	50.0	51.1	
88 Ethylene Dibromide	107	8.222	8.221	0.001	99	164986	50.0	49.8	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	215180	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	94	573377	50.0	50.7	
91 Ethylbenzene	106	8.904	8.903	0.001	99	337079	50.0	50.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	219570	50.0	50.9	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	417158	50.0	52.3	
94 n-Butyl acrylate	73	9.495	9.495	0.000	97	161856	50.0	50.6	
95 o-Xylene	106	9.504	9.503	0.001	94	431751	50.0	52.3	
96 Styrene	104	9.536	9.536	0.000	96	661552	50.0	53.5	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	91	364053	50.0	51.5	
98 Bromoform	173	9.742	9.742	0.000	96	121865	50.0	51.5	
99 Isopropylbenzene	105	9.849	9.848	0.001	96	1116785	50.0	54.1	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	89	88252	50.0	49.7	
101 Bromobenzene	156	10.153	10.152	0.001	99	256290	50.0	50.8	
102 1,1,2,2-Tetrachloroethane	83	10.186	10.185	0.001	98	240433	50.0	48.8	
103 N-Propylbenzene	91	10.210	10.210	0.000	99	1285093	50.0	52.4	
104 1,2,3-Trichloropropane	110	10.227	10.226	0.001	97	65175	50.0	48.6	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	92	60256	50.0	48.8	
106 2-Chlorotoluene	91	10.301	10.300	0.001	95	892206	50.0	51.7	
107 4-Ethyltoluene	105	10.301	10.300	0.001	96	1074113	50.0	52.5	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	93	938853	50.0	52.3	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	784330	50.0	50.9	
110 Butyl Methacrylate	87	10.432	10.432	0.000	91	326053	50.0	51.6	
111 tert-Butylbenzene	119	10.588	10.588	0.000	93	749210	50.0	52.9	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	957191	50.0	52.7	
113 sec-Butylbenzene	105	10.752	10.752	0.000	99	1171472	50.0	54.2	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	97	995738	50.0	53.9	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	501287	50.0	50.5	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	95	123148	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	93	510785	50.0	50.6	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	99	1005697	50.0	52.5	
118 Benzyl chloride	91	11.024	11.023	0.001	99	501836	50.0	53.5	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	972120	50.0	52.1	
120 p-Diethylbenzene	119	11.106	11.106	0.000	94	566987	50.0	51.7	
121 n-Butylbenzene	92	11.122	11.122	0.000	97	525625	50.0	52.2	
122 1,2-Dichlorobenzene	146	11.172	11.171	0.001	95	502699	50.0	51.1	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	943788	50.0	52.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	43344	50.0	49.0	
125 1,3,5-Trichlorobenzene	180	11.739	11.738	0.000	97	384287	50.0	50.8	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	340299	50.0	52.1	
127 Hexachlorobutadiene	225	12.207	12.198	0.009	96	151114	50.0	50.2	
128 Naphthalene	128	12.314	12.313	0.001	99	777126	50.0	52.4	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	298154	50.0	49.4	
S 130 1,2-Dichloroethene, Total	100				0		100.0	98.4	
S 131 Xylenes, Total	100				0		100.0	104.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00257	Amount Added:	5.00	Units: uL	
MIX I Hi_00094	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	5.00	Units: uL	
Ethanol mix_00016	Amount Added:	5.00	Units: uL	
ACROLEIN W_00077	Amount Added:	10.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

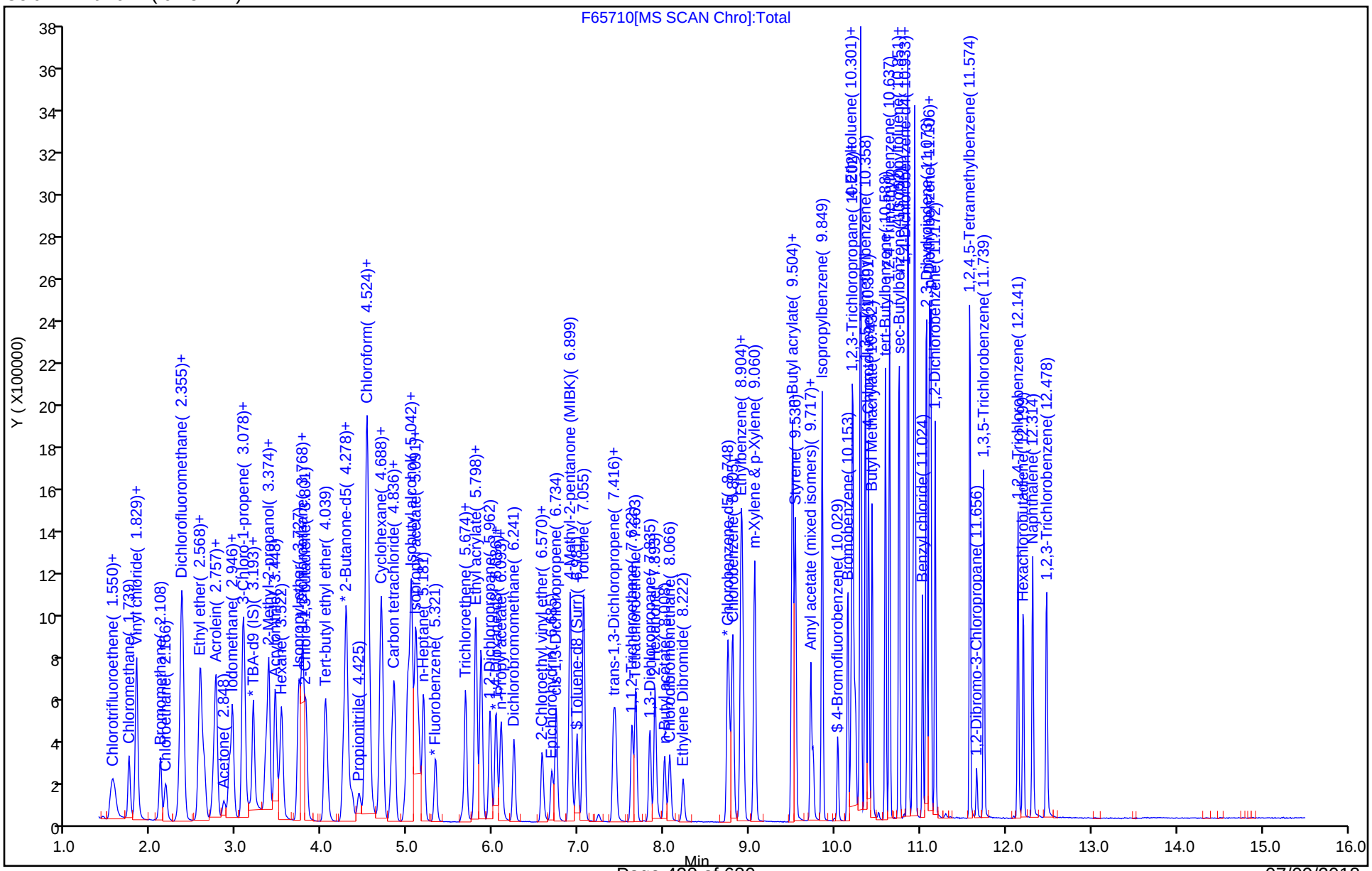
Report Date: 07-Jun-2018 13:08:02 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65710.D

Injection Date:	05-Jun-2018 04:22:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

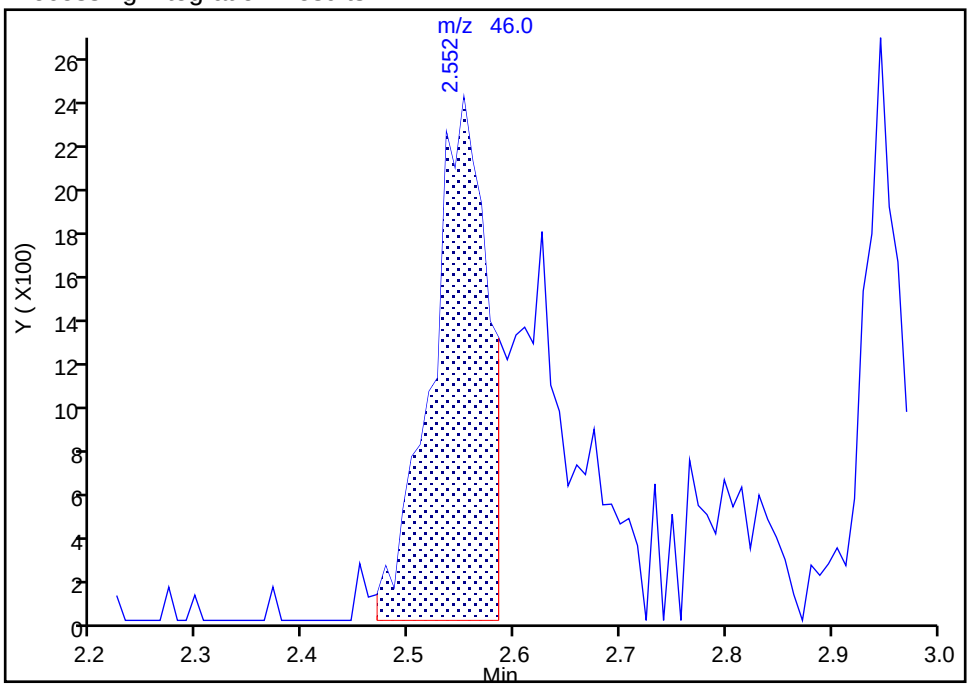
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65710.D
Injection Date: 05-Jun-2018 04:22:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

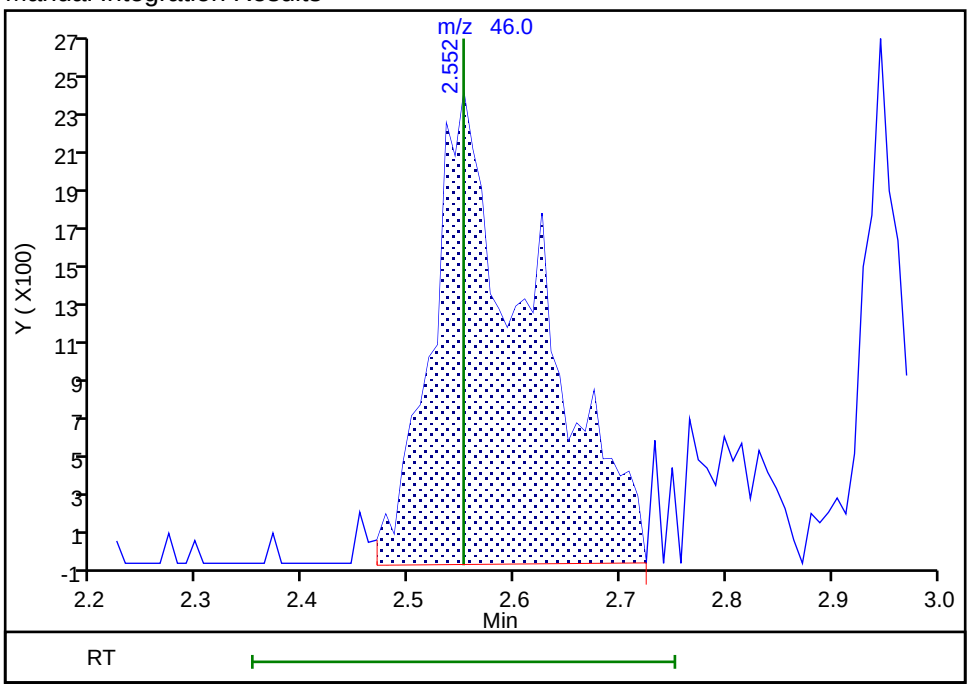
Processing Integration Results

RT: 2.55
Area: 8951
Amount: 843.8164
Amount Units: ug/l



Manual Integration Results

RT: 2.55
Area: 15993
Amount: 1452.4464
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 10:23:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

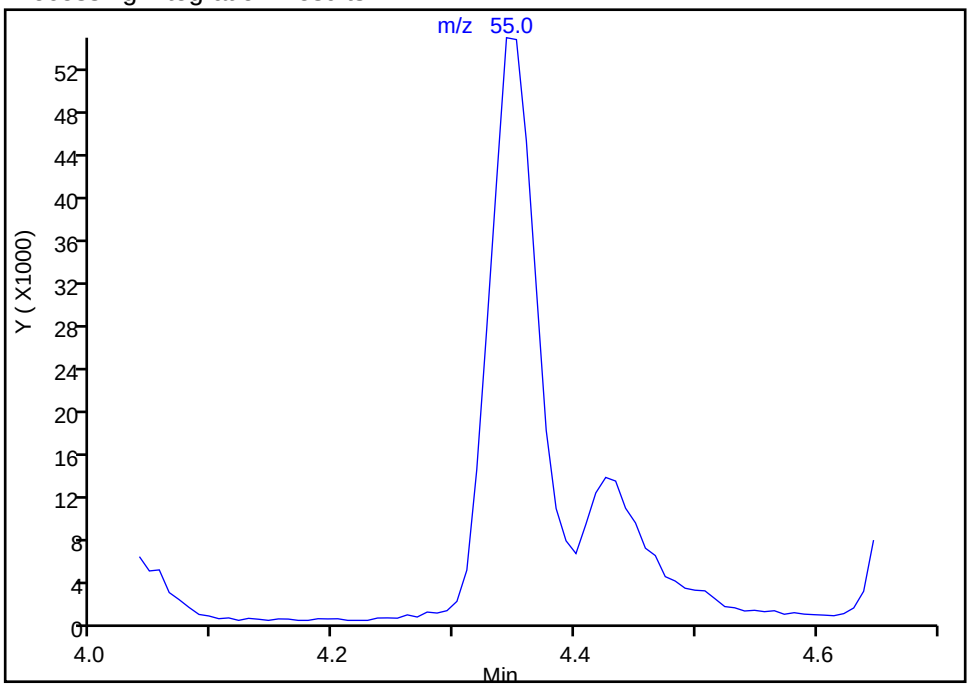
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65710.D
Injection Date: 05-Jun-2018 04:22:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

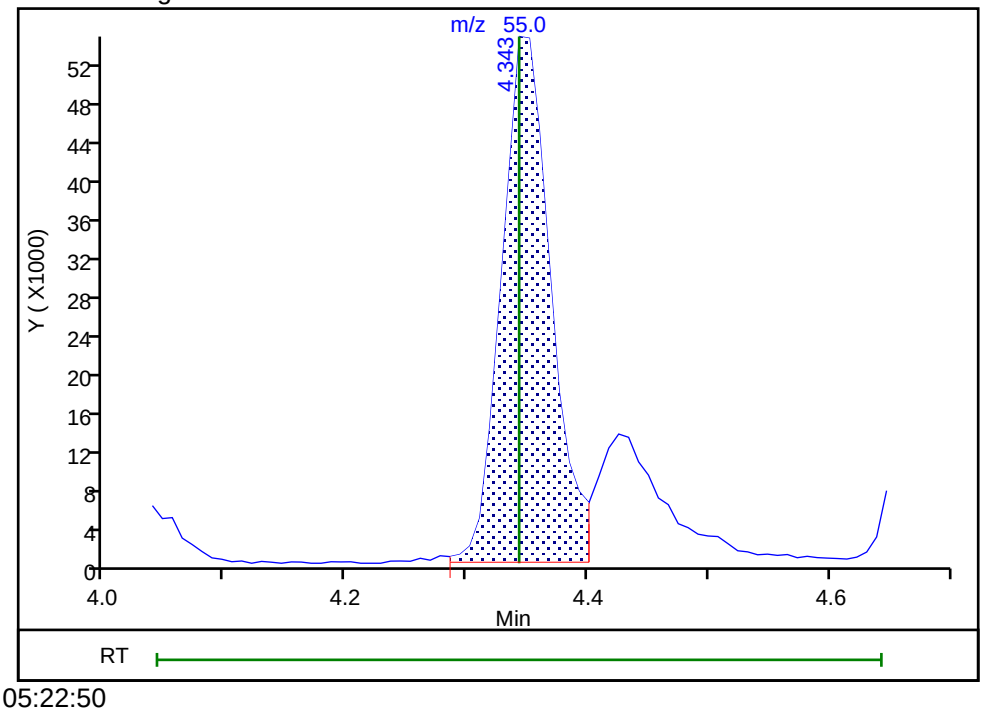
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 156804
Amount: 49.683155
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 05:22:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

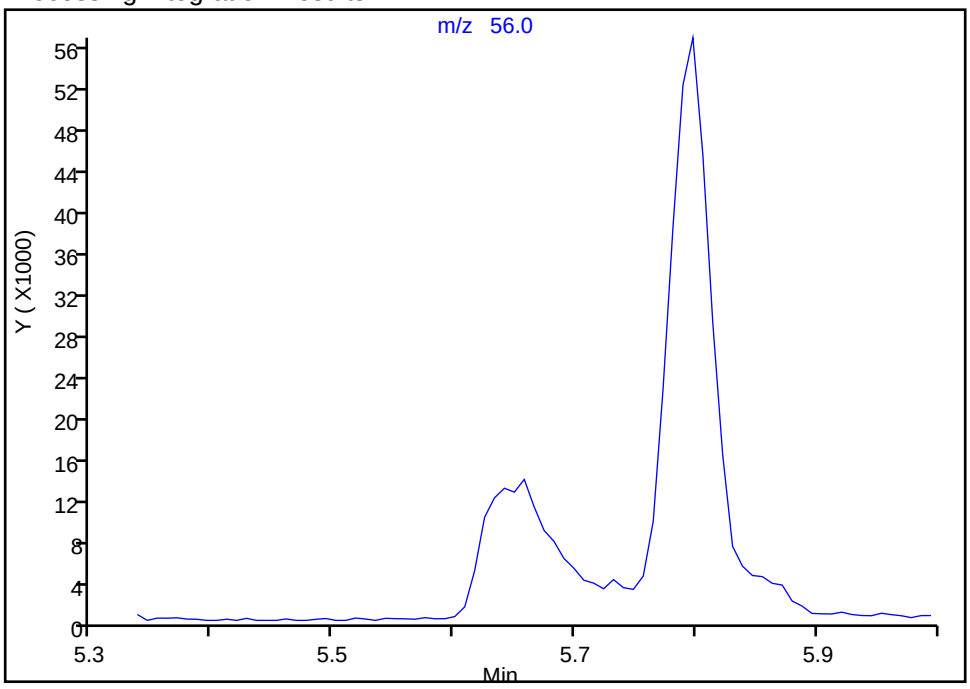
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65710.D
Injection Date: 05-Jun-2018 04:22:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

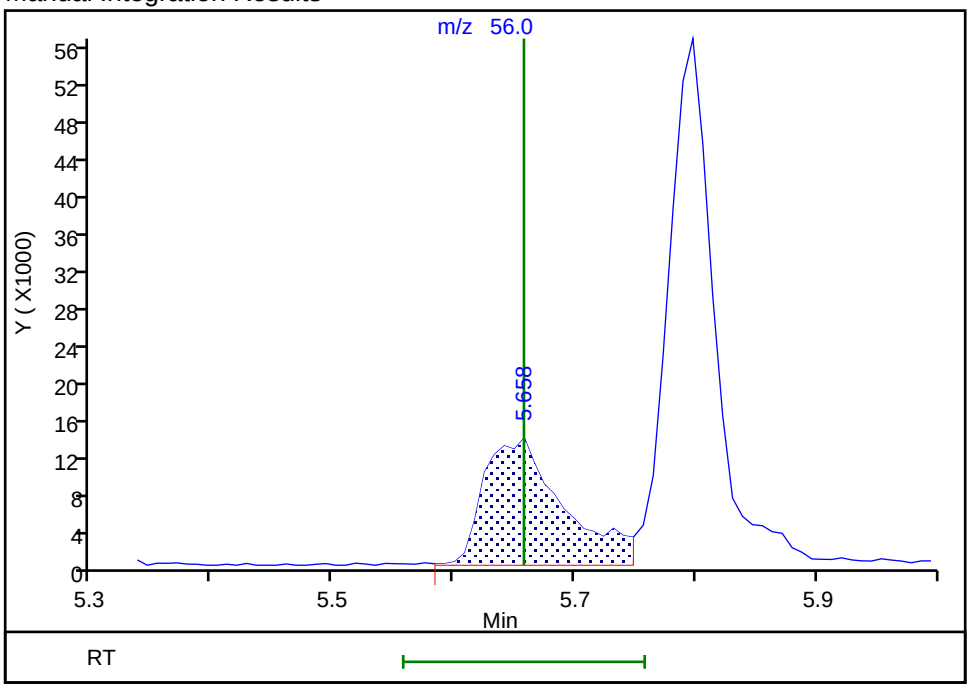
Not Detected
Expected RT: 5.66

Processing Integration Results



Manual Integration Results

RT: 5.66
Area: 62801
Amount: 1359.2495
Amount Units: ug/l



Reviewer: boykink, 05-Jun-2018 05:23:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65711.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jun-2018 04:46:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0073199-009
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:08:15 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 05:26:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.525	0.000	89	629431	200.0	211.8	
2 Dichlorodifluoromethane	85	1.558	1.557	0.001	99	1504837	200.0	200.4	
3 Chloromethane	50	1.730	1.730	0.000	99	1564119	200.0	191.2	
4 Vinyl chloride	62	1.821	1.820	0.001	98	1514038	200.0	197.0	
5 Butadiene	54	1.821	1.820	0.001	97	1400579	200.0	214.6	
6 Bromomethane	94	2.100	2.100	0.000	99	959335	200.0	188.7	
7 Chloroethane	64	2.166	2.157	0.009	100	841444	200.0	189.6	
8 Dichlorofluoromethane	67	2.338	2.338	0.000	98	2054678	200.0	183.3	
10 Pentane	72	2.355	2.355	0.000	96	339122	400.0	360.9	
9 Trichlorofluoromethane	101	2.355	2.355	0.000	99	1555275	200.0	192.2	
12 Ethyl ether	59	2.544	2.544	0.000	95	713472	200.0	195.2	
11 Ethanol	46	2.544	2.552	-0.008	81	97051	8000.0	8240.9	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	825924	200.0	192.2	
14 1,2-Dichloro-1,1,2-trifluo	117	2.610	2.601	0.009	94	739007	200.0	181.9	
15 Acrolein	56	2.725	2.724	0.001	33	84033	200.0	173.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.733	2.732	0.001	96	857644	200.0	181.9	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	97	833928	200.0	188.2	
18 Acetone	43	2.840	2.848	-0.008	87	1004464	1000.0	1054.0	
19 Iodomethane	142	2.905	2.905	0.000	98	1509898	200.0	192.7	
20 Isopropyl alcohol	45	2.938	2.938	0.000	30	369251	2000.0	1982.9	
21 Carbon disulfide	76	2.946	2.946	0.000	99	3270727	200.0	188.3	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	97	1766915	200.0	189.4	
23 Cyclopentene	67	3.086	3.078	0.008	95	2248059	200.0	195.9	
24 Methyl acetate	43	3.070	3.078	-0.008	100	1097855	400.0	395.3	
25 Acetonitrile	41	3.135	3.143	-0.008	98	885271	2000.0	1793.7	
27 Methylene Chloride	84	3.185	3.184	0.001	92	1001523	200.0	186.8	
* 26 TBA-d9 (IS)	65	3.185	3.201	-0.016	0	122666	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.267	0.008	93	661419	2000.0	1865.0	M
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	2598832	200.0	195.4	
30 trans-1,2-Dichloroethene	96	3.374	3.373	0.001	96	898589	200.0	181.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.447	0.001	95	3091407	2000.0	1887.8	
32 Hexane	43	3.513	3.521	-0.008	93	756915	200.0	175.6	
33 Isopropyl ether	45	3.727	3.719	0.008	96	3147778	200.0	190.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	100	1649314	200.0	183.5	
35 Vinyl acetate	86	3.768	3.768	0.000	100	348460	400.0	414.4	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	92	833500	200.0	198.3	
37 Tert-butyl ethyl ether	59	4.039	4.031	0.008	89	2967966	200.0	194.3	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	110521	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	96	335479	200.0	187.3	
40 cis-1,2-Dichloroethene	96	4.278	4.277	0.001	95	1022516	200.0	187.5	
42 Ethyl acetate	70	4.286	4.285	0.001	96	167988	400.0	435.1	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	96	422936	1000.0	1072.5	
43 Methyl acrylate	55	4.343	4.343	0.000	100	691628	200.0	204.0	
44 Propionitrile	54	4.425	4.425	0.000	98	1079267	2000.0	1974.9	
45 Chlorobromomethane	128	4.499	4.499	0.000	91	466457	200.0	190.4	
46 Tetrahydrofuran	72	4.499	4.507	-0.008	74	194418	400.0	405.5	
47 Methacrylonitrile	67	4.524	4.524	0.000	92	3296913	2000.0	2047.4	
48 Chloroform	83	4.549	4.548	0.001	99	1527896	200.0	185.7	
49 Cyclohexane	84	4.688	4.680	0.008	92	1379206	200.0	191.3	
50 1,1,1-Trichloroethane	97	4.697	4.696	0.001	99	1360442	200.0	187.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	75486	50.0	46.8	
52 Carbon tetrachloride	117	4.812	4.811	0.001	98	1111812	200.0	190.2	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	97	1225536	200.0	188.2	
54 Isobutyl alcohol	43	5.001	4.992	0.009	88	1234211	5000.0	5133.2	
55 Benzene	78	5.042	5.041	0.001	97	3646795	200.0	182.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	105688	50.0	54.0	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	92	3095777	200.0	200.7	
57 Isopropyl acetate	43	5.091	5.091	0.000	97	2584944	200.0	205.6	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	1165613	200.0	189.3	
60 n-Heptane	57	5.181	5.181	0.000	92	660440	200.0	188.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	326761	50.0	50.0	
62 n-Butanol	56	5.633	5.658	-0.025	87	336269	5000.0	5530.5	
63 Trichloroethene	95	5.674	5.674	0.000	99	912859	200.0	189.1	
65 Ethyl acrylate	55	5.789	5.797	-0.008	99	2151499	200.0	201.3	
64 Methylcyclohexane	83	5.798	5.797	0.001	87	1569356	200.0	187.1	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	91	978165	200.0	195.3	
68 Methyl methacrylate	100	6.028	6.027	0.001	88	418733	400.0	436.9	
* 67 1,4-Dioxane-d8	96	6.028	6.027	0.001	0	5732	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	1077533	200.0	222.0	
71 Dibromomethane	93	6.093	6.093	0.000	96	534624	200.0	189.8	
69 1,4-Dioxane	88	6.077	6.101	-0.024	80	86166	4000.0	4315.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	100	1252062	200.0	201.0	
73 2-Nitropropane	41	6.570	6.570	0.000	78	380057	400.0	423.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	545526	200.0	222.8	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	1452825	4000.0	4476.8	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	92	1501754	200.0	202.3	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.898	0.001	96	3943948	1000.0	1101.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	330101	50.0	49.1	
79 Toluene	91	7.055	7.055	0.000	94	3800215	200.0	188.6	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	99	1261396	200.0	205.6	
81 Ethyl methacrylate	69	7.433	7.433	0.000	90	1132220	200.0	219.7	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	95	646363	200.0	188.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.671	-0.008	96	884689	200.0	185.5	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	94	1293837	200.0	201.6	
85 2-Hexanone	43	7.893	7.893	0.000	96	2294667	1000.0	1108.8	
86 n-Butyl acetate	43	8.000	8.008	-0.008	99	1281103	200.0	208.8	
87 Chlorodibromomethane	129	8.066	8.065	0.001	99	844759	200.0	202.5	
88 Ethylene Dibromide	107	8.222	8.221	0.001	99	722746	200.0	203.2	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	231203	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	93	2365072	200.0	194.6	
91 Ethylbenzene	106	8.904	8.903	0.001	98	1361207	200.0	189.0	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	95	904117	200.0	195.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	1691182	200.0	197.4	
94 n-Butyl acrylate	73	9.487	9.495	-0.008	98	705309	200.0	205.4	
95 o-Xylene	106	9.503	9.503	0.000	94	1724412	200.0	194.5	
96 Styrene	104	9.536	9.536	0.000	95	2698318	200.0	203.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	1587572	200.0	216.4	
98 Bromoform	173	9.742	9.742	0.000	96	513343	200.0	202.1	
99 Isopropylbenzene	105	9.849	9.848	0.001	97	4213782	200.0	190.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	89	96175	50.0	50.4	
101 Bromobenzene	156	10.153	10.152	0.001	98	998221	200.0	194.2	
102 1,1,2,2-Tetrachloroethane	83	10.186	10.185	0.001	99	981086	200.0	195.2	
103 N-Propylbenzene	91	10.202	10.210	-0.008	99	4744071	200.0	189.8	
104 1,2,3-Trichloropropane	110	10.227	10.226	0.001	97	272701	200.0	199.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	85	254387	200.0	202.0	
107 4-Ethyltoluene	105	10.301	10.300	0.001	87	4209590	200.0	201.8	
106 2-Chlorotoluene	91	10.301	10.300	0.001	96	3512386	200.0	199.6	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	94	3604513	200.0	196.9	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	2999148	200.0	191.0	
110 Butyl Methacrylate	87	10.432	10.432	0.000	91	1399515	200.0	214.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	93	2964115	200.0	205.5	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	3670846	200.0	198.2	
113 sec-Butylbenzene	105	10.752	10.752	0.000	97	4332155	200.0	196.5	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	96	3795805	200.0	201.7	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	94	1939009	200.0	191.5	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	87	125541	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	92	1942231	200.0	188.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	3949110	200.0	202.1	
118 Benzyl chloride	91	11.024	11.023	0.001	99	2058249	200.0	215.3	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	3736568	200.0	196.4	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	2200018	200.0	196.9	
121 n-Butylbenzene	92	11.122	11.122	0.000	97	2003282	200.0	195.2	
122 1,2-Dichlorobenzene	146	11.172	11.171	0.001	94	1918307	200.0	191.2	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	3693231	200.0	202.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	98	188042	200.0	212.5	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	1498256	200.0	194.1	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	1364183	200.0	205.0	
127 Hexachlorobutadiene	225	12.207	12.198	0.009	94	595626	200.0	194.0	
128 Naphthalene	128	12.314	12.313	0.001	99	3224490	200.0	213.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	1231356	200.0	200.3	
S 130 1,2-Dichloroethene, Total	100				0		400.0	369.3	
S 131 Xylenes, Total	100				0		400.0	392.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS Hi_00257	Amount Added:	20.00	Units: uL	
MIX I Hi_00094	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	20.00	Units: uL	
Ethanol mix_00016	Amount Added:	20.00	Units: uL	
ACROLEIN W_00077	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

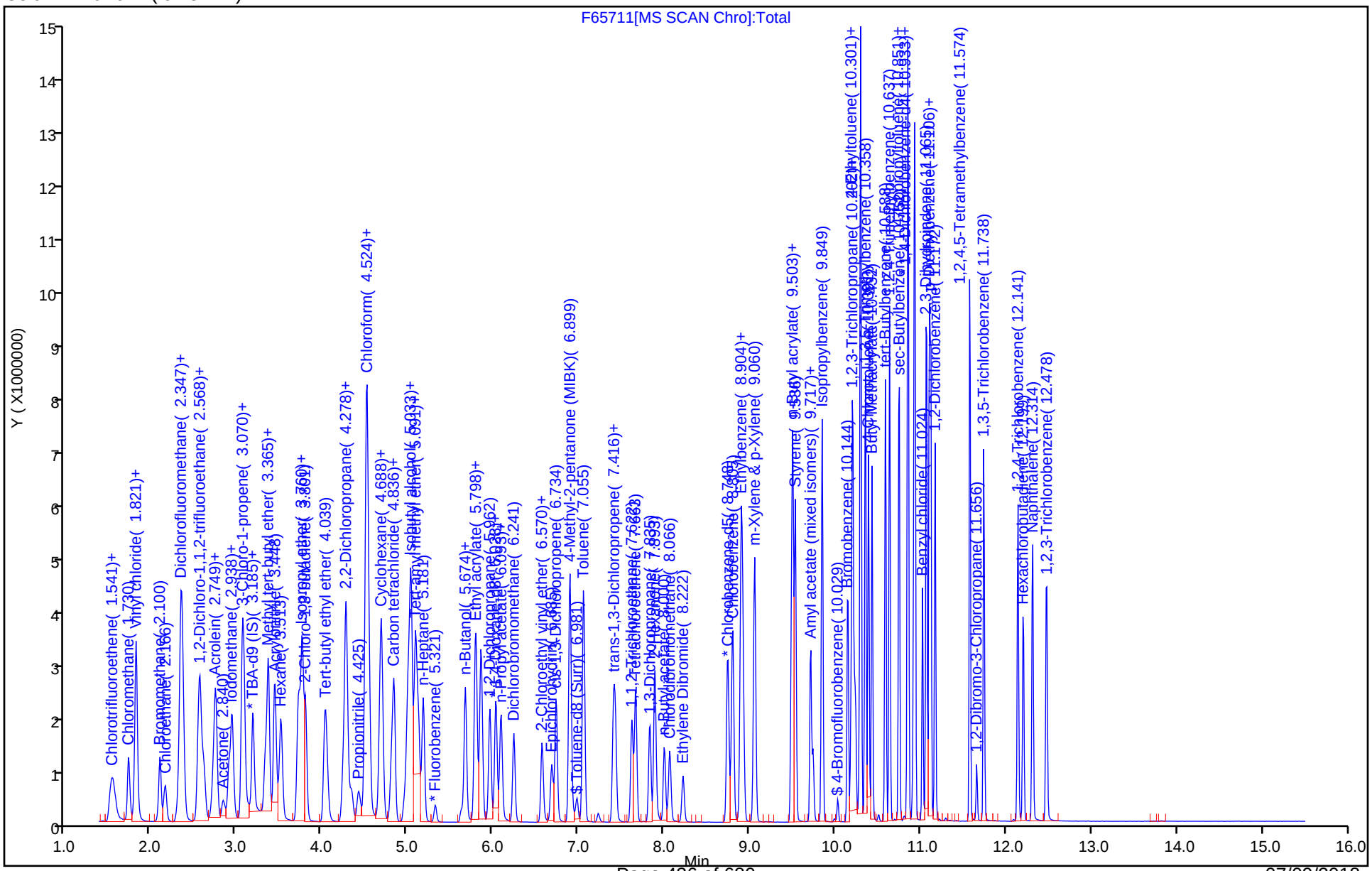
Report Date: 07-Jun-2018 13:08:21 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65711.D

Injection Date:	05-Jun-2018 04:46:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

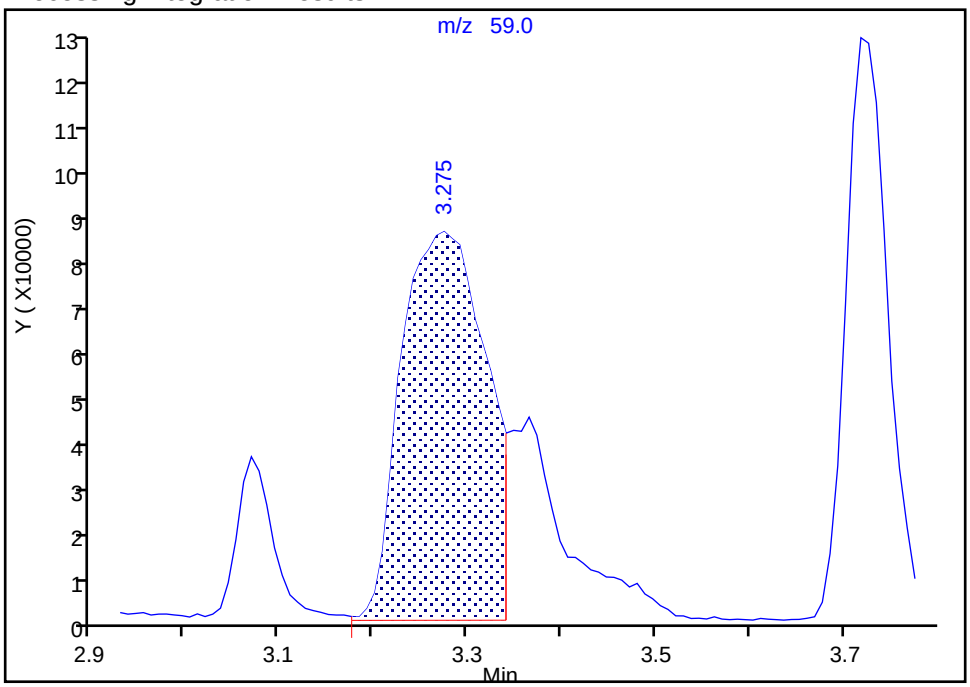
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65711.D
Injection Date: 05-Jun-2018 04:46:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

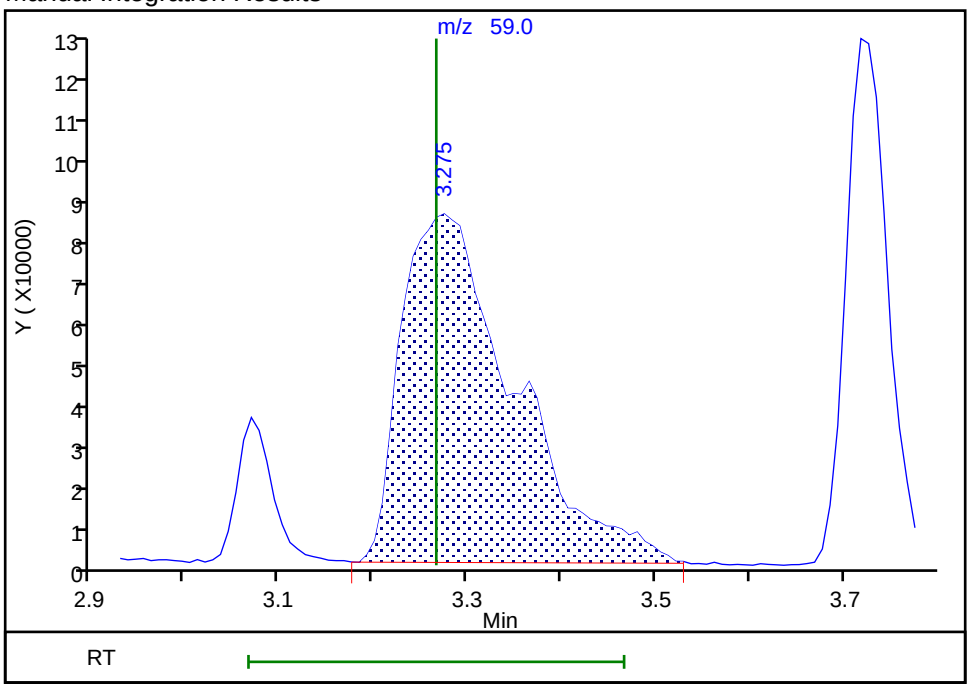
Processing Integration Results

RT: 3.28
Area: 505696
Amount: 1480.0985
Amount Units: ug/l



Manual Integration Results

RT: 3.28
Area: 661419
Amount: 1865.0399
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 11:29:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jun-2018 05:09:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0073199-010
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 13:08:34 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK016

First Level Reviewer: boykink Date: 05-Jun-2018 05:36:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.525	0.008	90	1653089	500.0	522.2	
2 Dichlorodifluoromethane	85	1.566	1.557	0.009	99	3742797	500.0	468.0	
3 Chloromethane	50	1.738	1.730	0.008	98	3658233	500.0	419.9	
5 Butadiene	54	1.829	1.820	0.009	97	3422837	500.0	489.7	
4 Vinyl chloride	62	1.829	1.820	0.009	98	3591383	500.0	438.8	
6 Bromomethane	94	2.108	2.100	0.008	99	2299493	500.0	424.7	
7 Chloroethane	64	2.166	2.157	0.009	100	2051335	500.0	434.0	
8 Dichlorofluoromethane	67	2.347	2.338	0.008	98	4910096	500.0	411.2	
9 Trichlorofluoromethane	101	2.363	2.355	0.008	98	3945917	500.0	457.9	
10 Pentane	72	2.371	2.355	0.016	95	898064	1000.0	1050.6	
12 Ethyl ether	59	2.544	2.544	0.000	94	1741336	500.0	447.2	
11 Ethanol	46	2.544	2.552	-0.008	68	191591	20000	19958	
13 2-Methyl-1,3-butadiene	53	2.577	2.568	0.009	97	2058088	500.0	449.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.601	0.017	92	1955979	500.0	451.9	
15 Acrolein	56	2.724	2.724	0.000	93	189962	400.0	431.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.732	0.009	96	2365245	500.0	470.9	
17 1,1-Dichloroethene	96	2.766	2.757	0.009	98	2236606	500.0	473.9	
18 Acetone	43	2.840	2.848	-0.008	87	2398063	2500.0	2437.4	
19 Iodomethane	142	2.922	2.905	0.017	99	3854064	500.0	461.9	
20 Isopropyl alcohol	45	2.938	2.938	0.000	96	810550	5000.0	4784.4	
21 Carbon disulfide	76	2.955	2.946	0.009	99	8254275	500.0	446.1	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	4463433	500.0	449.3	
24 Methyl acetate	43	3.070	3.078	-0.008	99	2625434	1000.0	887.5	
23 Cyclopentene	67	3.086	3.078	0.008	95	5569038	500.0	455.7	
25 Acetonitrile	41	3.144	3.143	0.001	100	2104313	5000.0	5201.4	a
27 Methylene Chloride	84	3.193	3.184	0.009	93	2558755	500.0	448.0	
* 26 TBA-d9 (IS)	65	3.209	3.201	0.008	0	111599	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.267	0.008	93	1492976	5000.0	4627.3	M
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	98	6301119	500.0	444.8	
30 trans-1,2-Dichloroethene	96	3.374	3.373	0.001	96	2292263	500.0	435.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.447	0.001	94	7228534	5000.0	4144.5	
32 Hexane	43	3.522	3.521	0.001	93	1993226	500.0	434.1	
33 Isopropyl ether	45	3.727	3.719	0.008	95	7471872	500.0	424.3	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	100	4099167	500.0	428.1	
35 Vinyl acetate	86	3.768	3.768	0.000	99	930842	1000.0	1039.4	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	91	1993825	500.0	445.3	
37 Tert-butyl ethyl ether	59	4.039	4.031	0.008	90	7011647	500.0	431.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	127408	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.261	0.008	96	872801	500.0	457.6	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	94	2564002	500.0	441.5	
42 Ethyl acetate	70	4.286	4.285	0.001	96	427842	1000.0	961.2	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	96	1038642	2500.0	2284.8	
43 Methyl acrylate	55	4.343	4.343	0.000	99	1709783	500.0	461.3	
44 Propionitrile	54	4.425	4.425	0.000	98	2515814	5000.0	5060.1	
45 Chlorobromomethane	128	4.499	4.499	0.000	93	1161859	500.0	445.3	
46 Tetrahydrofuran	72	4.508	4.507	0.001	75	489986	1000.0	886.6	
47 Methacrylonitrile	67	4.524	4.524	0.000	90	7865981	5000.0	4586.3	
48 Chloroform	83	4.549	4.548	0.001	98	3824440	500.0	436.3	
49 Cyclohexane	84	4.688	4.680	0.008	92	3728822	500.0	485.7	
50 1,1,1-Trichloroethane	97	4.697	4.696	0.001	98	3523228	500.0	454.6	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	96	79001	50.0	46.0	
52 Carbon tetrachloride	117	4.820	4.811	0.009	98	2941542	500.0	472.6	
53 1,1-Dichloropropene	75	4.844	4.836	0.008	96	3150346	500.0	454.2	
54 Isobutyl alcohol	43	5.009	4.992	0.017	92	3042128	12500	13907	
55 Benzene	78	5.042	5.041	0.001	98	8818598	500.0	403.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	114338	50.0	54.8	
57 Isopropyl acetate	43	5.091	5.091	0.000	98	6230911	500.0	465.3	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	93	7419954	500.0	451.6	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	96	2926892	500.0	446.3	
60 n-Heptane	57	5.181	5.181	0.000	92	1746639	500.0	467.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	98	348034	50.0	50.0	
62 n-Butanol	56	5.625	5.658	-0.033	87	804371	12500	12079	
63 Trichloroethene	95	5.674	5.674	0.000	98	2329487	500.0	453.2	
64 Methylcyclohexane	83	5.798	5.797	0.001	88	4262026	500.0	477.2	
65 Ethyl acrylate	55	5.789	5.797	-0.008	99	5881967	500.0	516.8	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	91	2449192	500.0	459.1	
* 67 1,4-Dioxane-d8	96	6.036	6.027	0.009	0	6752	1000.0	1000.0	Ma
68 Methyl methacrylate	100	6.036	6.027	0.009	90	1068899	1000.0	1047.2	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	2657483	500.0	514.0	
71 Dibromomethane	93	6.093	6.093	0.000	97	1366990	500.0	455.7	
69 1,4-Dioxane	88	6.085	6.101	-0.016	28	177620	10000	9894.9	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	3160813	500.0	476.4	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	97	1306411	500.0	501.0	
73 2-Nitropropane	41	6.578	6.570	0.008	84	974287	1000.0	984.5	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	3418024	10000	9136.4	
76 cis-1,3-Dichloropropene	75	6.743	6.734	0.009	92	3812855	500.0	469.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.898	0.001	94	8981202	2500.0	2176.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	97	352122	50.0	48.0	
79 Toluene	91	7.063	7.055	0.008	95	9038290	500.0	410.5	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	99	3287222	500.0	490.2	
81 Ethyl methacrylate	69	7.433	7.433	0.000	90	2817405	500.0	500.2	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	95	1671890	500.0	446.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.671	7.671	0.000	95	2295526	500.0	440.5	
84 1,3-Dichloropropane	76	7.835	7.835	0.000	94	3273395	500.0	466.8	
85 2-Hexanone	43	7.893	7.893	0.000	95	5514769	2500.0	2388.6	
86 n-Butyl acetate	43	8.000	8.008	-0.008	99	3024202	500.0	451.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	2171924	500.0	476.3	
88 Ethylene Dibromide	107	8.222	8.221	0.001	99	1833696	500.0	471.6	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	88	252694	50.0	50.0	
90 Chlorobenzene	112	8.805	8.805	0.000	91	5945689	500.0	447.6	
91 Ethylbenzene	106	8.904	8.903	0.001	98	3507316	500.0	445.6	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	2286081	500.0	451.4	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	4276435	500.0	456.7	
94 n-Butyl acrylate	73	9.487	9.495	-0.008	99	1735420	500.0	462.4	
95 o-Xylene	106	9.503	9.503	0.000	95	4248287	500.0	438.5	
96 Styrene	104	9.536	9.536	0.000	94	6583318	500.0	453.1	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	3809539	500.0	483.7	
98 Bromoform	173	9.742	9.742	0.000	96	1311782	500.0	472.5	
99 Isopropylbenzene	105	9.849	9.848	0.001	98	9127834	500.0	376.6	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	93	98638	50.0	47.3	
101 Bromobenzene	156	10.153	10.152	0.001	98	2517666	500.0	466.1	
102 1,1,2,2-Tetrachloroethane	83	10.194	10.185	0.009	98	2373469	500.0	449.5	
103 N-Propylbenzene	91	10.210	10.210	0.000	96	9805805	500.0	373.3	
104 1,2,3-Trichloropropane	110	10.227	10.226	0.001	97	653587	500.0	455.0	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	92	645910	500.0	488.1	
106 2-Chlorotoluene	91	10.300	10.300	0.000	96	7795191	500.0	421.7	
107 4-Ethyltoluene	105	10.300	10.300	0.000	82	8813522	500.0	402.1	
108 1,3,5-Trimethylbenzene	105	10.358	10.358	0.000	95	7806794	500.0	405.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	7024727	500.0	425.7	
110 Butyl Methacrylate	87	10.432	10.432	0.000	91	3390548	500.0	485.9	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	6753516	500.0	445.5	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	95	7713715	500.0	396.3	
113 sec-Butylbenzene	105	10.752	10.752	0.000	93	8861164	500.0	382.6	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	91	7825492	500.0	395.7	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	90	4514374	500.0	424.4	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	94	131910	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	90	4590046	500.0	424.7	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	94	7890902	500.0	384.4	
118 Benzyl chloride	91	11.024	11.023	0.001	99	4585450	500.0	456.6	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	7419109	500.0	371.1	
120 p-Diethylbenzene	119	11.106	11.106	0.000	91	4969801	500.0	423.4	
121 n-Butylbenzene	92	11.122	11.122	0.000	95	4646971	500.0	431.0	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	91	4412407	500.0	418.5	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	96	7189354	500.0	375.7	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	97	444463	500.0	488.3	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	3439518	500.0	424.2	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	3187144	500.0	455.9	
127 Hexachlorobutadiene	225	12.207	12.198	0.009	93	1462094	500.0	453.1	
128 Naphthalene	128	12.314	12.313	0.001	97	6716059	500.0	422.9	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	2843344	500.0	440.1	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	876.8	
S 131 Xylenes, Total	100				0		1000.0	895.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00257	Amount Added:	50.00	Units: uL	
MIX I Hi_00094	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	50.00	Units: uL	
Ethanol mix_00016	Amount Added:	50.00	Units: uL	
ACROLEIN W_00077	Amount Added:	40.00	Units: uL	
VOA6IS/SURR_00010	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 07-Jun-2018 13:08:40 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Injection Date: 05-Jun-2018 05:09:30 Instrument ID: CVOAMS6 Operator ID:

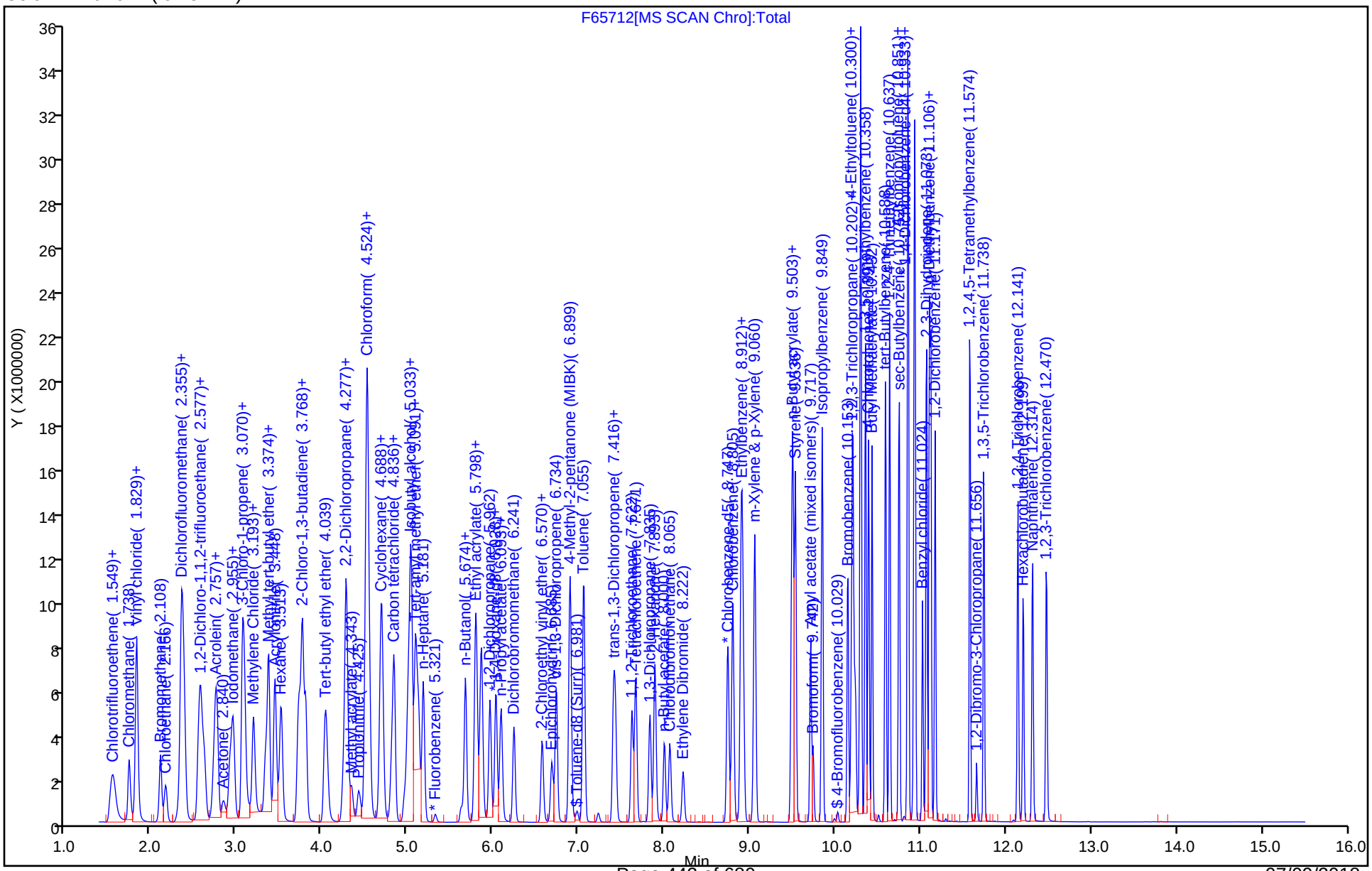
Lims ID: STD500 Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

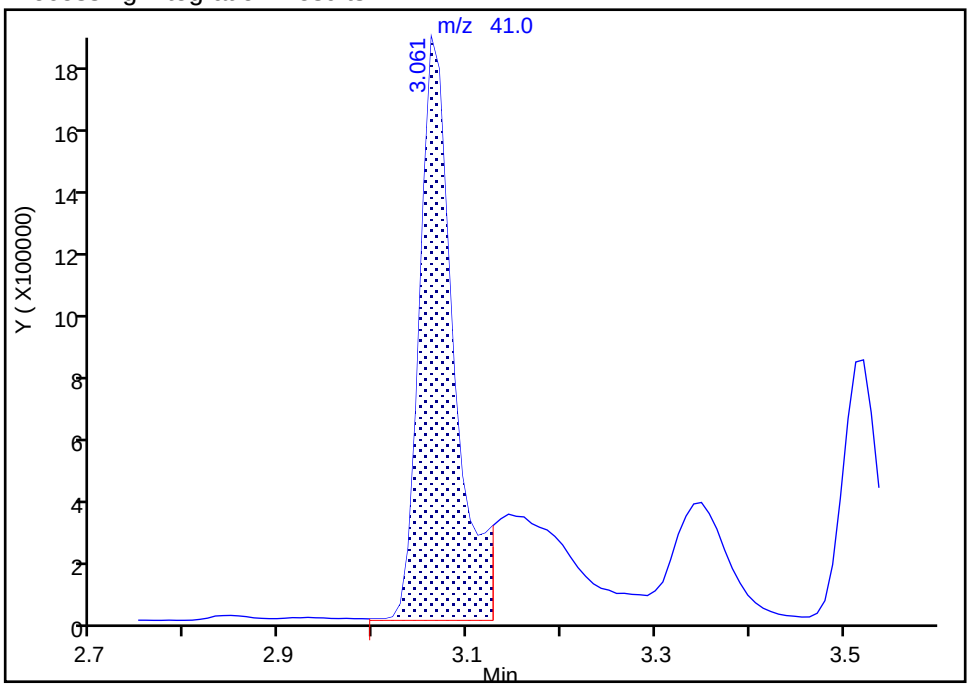
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D
Injection Date: 05-Jun-2018 05:09:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

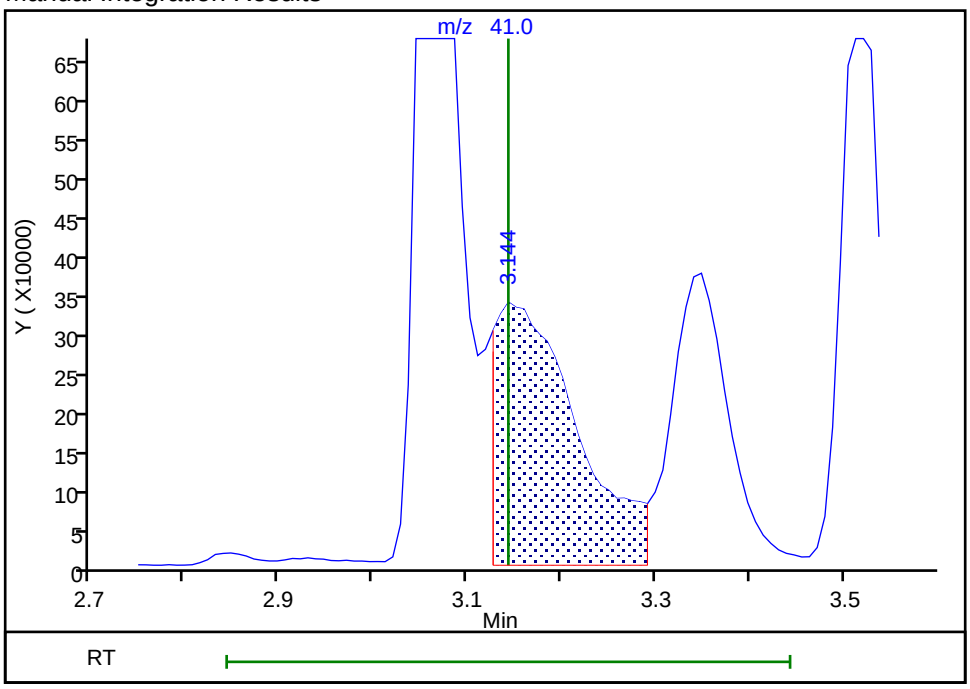
Processing Integration Results

RT: 3.06
Area: 4752961
Amount: 5251.7644
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 2104313
Amount: 5201.3677
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 11:19:42
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

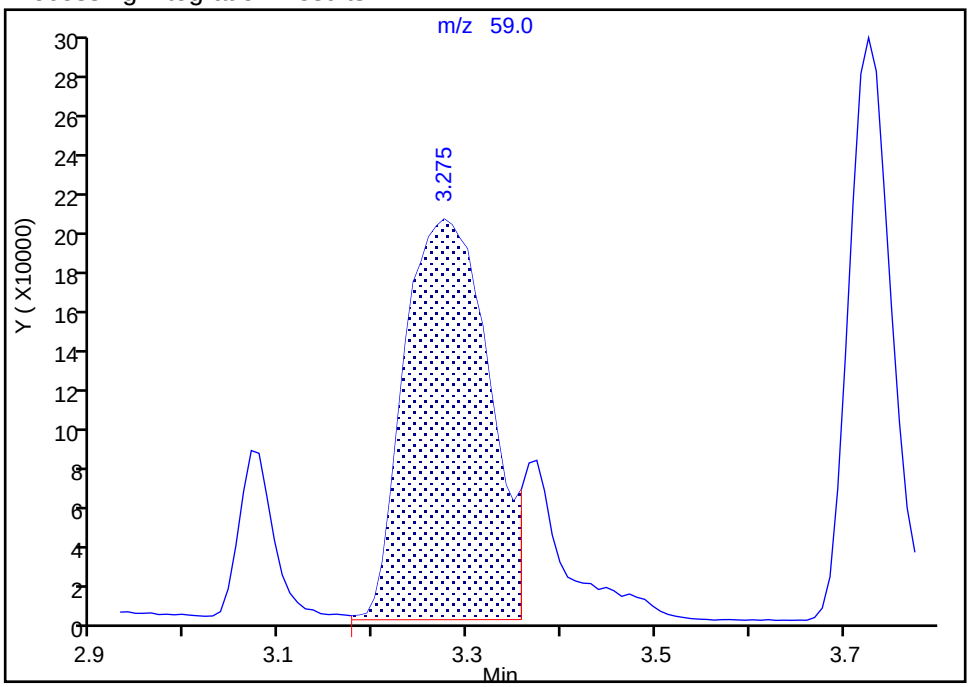
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D
Injection Date: 05-Jun-2018 05:09:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

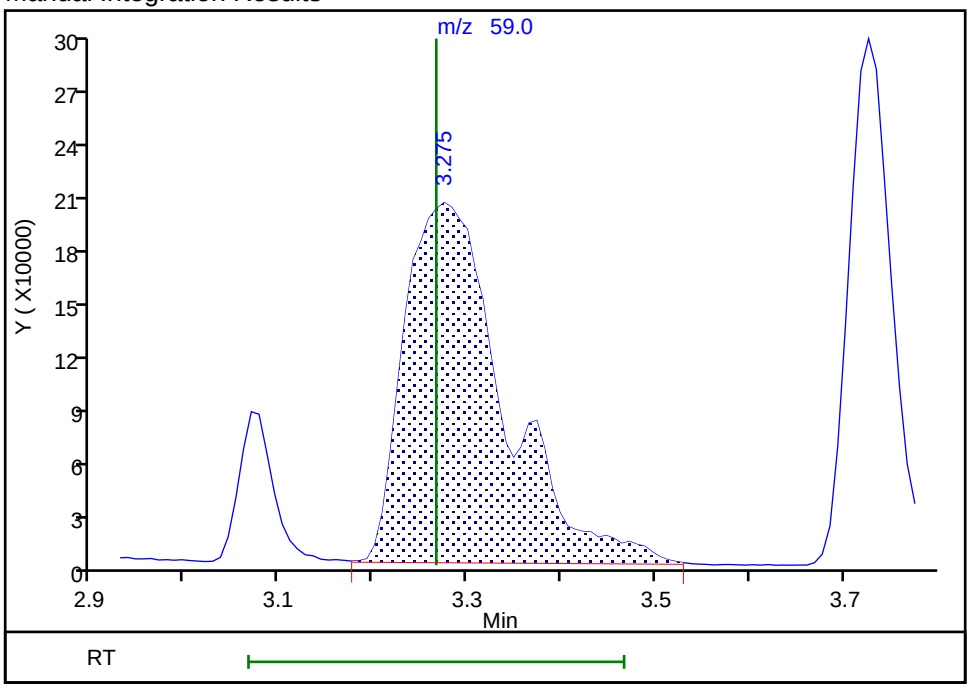
Processing Integration Results

RT: 3.28
Area: 1272444
Amount: 4018.9507
Amount Units: ug/l



Manual Integration Results

RT: 3.28
Area: 1492976
Amount: 4627.3056
Amount Units: ug/l



Reviewer: pakanatir, 07-Jun-2018 11:20:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

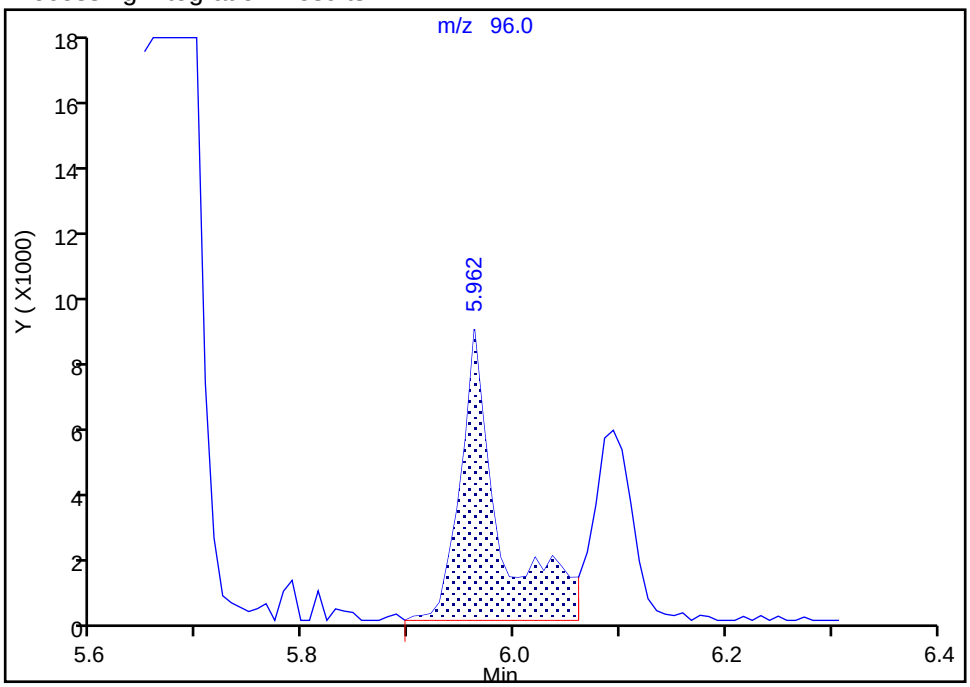
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D
Injection Date: 05-Jun-2018 05:09:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

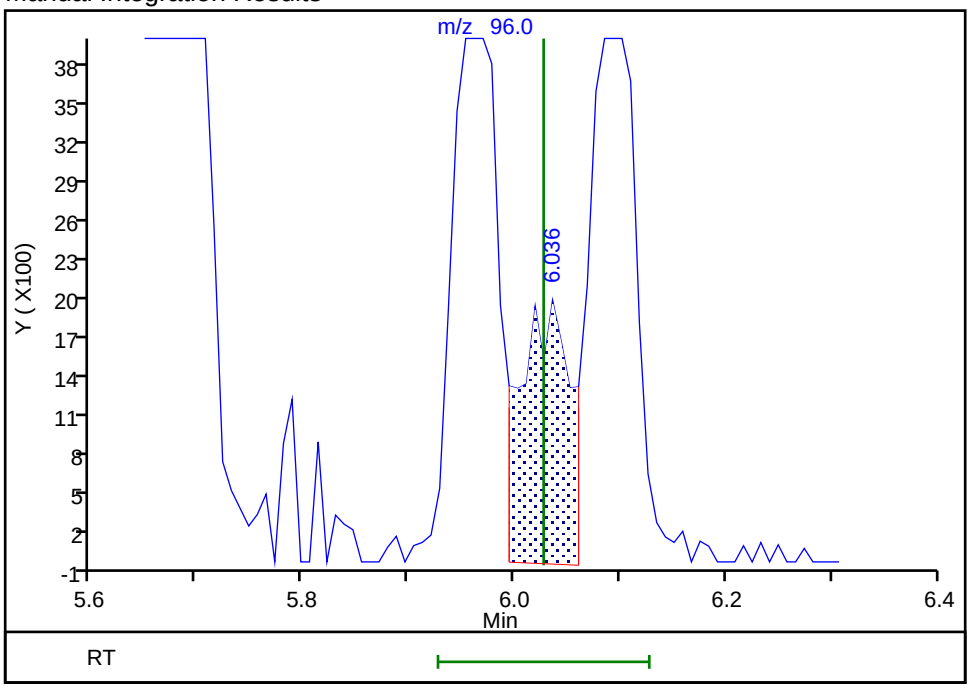
RT: 5.96
Area: 22741
Amount: 1000.0000
Amount Units: ug/l

Processing Integration Results



RT: 6.04
Area: 6752
Amount: 1000.0000
Amount Units: ug/l

Manual Integration Results



Reviewer: pakanatir, 07-Jun-2018 11:18:42
Audit Action: Manually Integrated Audit Reason: Wrong peak

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-525743/3	K84641.D
Level 2	STD5 460-525743/4	K84642.D
Level 3	STD20 460-525743/5	K84643.D
Level 4	STD50 460-525743/6	K84644.D
Level 5	STD200 460-525743/7	K84645.D
Level 6	STD500 460-525743/8	K84646.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2616 0.2534	0.2144	0.2378	0.2317	0.2533	Ave		0.2420				7.2		20.0			
Dichlorodifluoromethane	0.4670 0.5646	0.5042	0.5854	0.5784	0.5559	Ave		0.5426			0.1000	8.6		20.0			
Chloromethane	0.5727 0.4753	0.5398	0.5358	0.5129	0.4844	Ave		0.5202			0.1000	7.1		20.0			
Vinyl chloride	0.4983 0.4662	0.5158	0.5159	0.5062	0.4729	Ave		0.4959			0.1000	4.3		20.0			
Butadiene	0.4043 0.4164	0.3928	0.4030	0.4159	0.4212	Ave		0.4089				2.6		20.0			
Bromomethane	0.3927 0.2833	0.3812	0.3539	0.3253	0.3136	Ave		0.3417			0.1000	12.3		20.0			
Chloroethane	0.2656 0.1972	0.2757	0.2503	0.2339	0.2198	Ave		0.2404			0.1000	12.2		20.0			
Dichlorofluoromethane	0.8520 0.6267	0.8189	0.8160	0.7805	0.6476	Ave		0.7570				12.6		20.0			
Trichlorofluoromethane	0.5760 0.5461	0.5751	0.6417	0.6148	0.5446	Ave		0.5830			0.1000	6.6		20.0			
Pentane	1.4610 1.3747	1.5083	1.4201	1.5012	1.2810	Ave		1.4244				6.1		20.0			
Ethyl ether	0.2901 0.2544	0.3000	0.2957	0.2737	0.2665	Ave		0.2801				6.4		20.0			
Ethanol	0.0724 0.0603	0.0637	0.0621	0.0599	0.0585	Ave		0.0628				8.0		20.0			
2-Methyl-1,3-butadiene	0.3256 0.2834	0.3137	0.3284	0.3159	0.2711	Ave		0.3064				7.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3305 0.3170	0.3098	0.3679	0.3345	0.3177	Ave		0.3296				6.3		20.0			
Acrolein	1.7673 1.5203	1.7659	1.5079	1.5559	1.5364	Ave		1.6089				7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3514 0.3796	0.3857	0.4270	0.3997	0.3833	Ave		0.3878			0.1000	6.4		20.0			
1,1-Dichloroethene	0.3670 0.3309	0.3458	0.3563	0.3488	0.3261	Ave		0.3458			0.1000	4.4		20.0			
Acetone	1.6988 0.8405	0.9496	0.9564	0.8909	0.8684	QuaF		0.8899	-0.000020		0.0500				1.0000		0.9900
Iodomethane	0.6832 0.6388	0.7066	0.7110	0.6689	0.6370	Ave		0.6742				4.8		20.0			
Isopropyl alcohol	1.2157 0.8788	0.9678	0.9036	0.8468	0.8346	Ave		0.9412				15.1		20.0			
Carbon disulfide	1.3190 1.2988	1.4026	1.4659	1.3695	1.2976	Ave		1.3589			0.1000	4.9		20.0			
Allyl chloride	0.2490 0.2185	0.2391	0.2514	0.2341	0.2140	Ave		0.2343				6.6		20.0			
Methyl acetate	7.4122 6.7530	6.4924	6.6132	6.6635	6.5503	Ave		6.7474			0.1000	5.0		20.0			
Cyclopentene	0.9457 0.8131	0.9122	0.9749	0.9000	0.7692	Ave		0.8859				8.9		20.0			
Acetonitrile	2.0758 1.5587	1.7295	1.6741	1.6348	1.5337	Ave		1.7011				11.6		20.0			
Methylene Chloride	0.5259 0.3803	0.4444	0.4279	0.4019	0.3797	Ave		0.4267			0.1000	12.9		20.0			
2-Methyl-2-propanol	1.5262 1.4441	1.5475	1.4594	1.4151	1.4092	Ave		1.4669				3.9		20.0			
Methyl tert-butyl ether	1.0877 0.9945	1.1117	1.1568	1.0522	1.0049	Ave		1.0680			0.1000	5.9		20.0			
trans-1,2-Dichloroethene	0.4673 0.3481	0.4139	0.4078	0.3788	0.3525	Ave		0.3947			0.1000	11.3		20.0			
Acrylonitrile	0.1301 0.1229	0.1411	0.1429	0.1321	0.1246	Ave		0.1323				6.3		20.0			
Hexane	0.4728 0.3432	0.3939	0.3928	0.3666	0.3472	Ave		0.3861				12.3		20.0			
Isopropyl ether	1.4047 1.1380	1.3797	1.3800	1.2701	1.1035	Ave		1.2793				10.3		20.0			
1,1-Dichloroethane	0.7496 0.6133	0.7166	0.7294	0.6774	0.6309	Ave		0.6862			0.2000	8.0		20.0			
Vinyl acetate	1.5782 1.7539	1.7982	1.7471	1.6942	1.7567	Ave		1.7214				4.5		20.0			
2-Chloro-1,3-butadiene	0.3508 0.3103	0.3513	0.3544	0.3434	0.2903	Ave		0.3334				8.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	1.1784 1.0555	1.2372	1.2667	1.1632	1.0097	Ave		1.1518				8.8		20.0			
2,2-Dichloropropane	0.2512 0.1732	0.2074	0.2075	0.1880	0.1770	Ave		0.2007				14.3		20.0			
cis-1,2-Dichloroethene	0.4819 0.3965	0.4756	0.4598	0.4281	0.4051	Ave		0.4412			0.1000	8.3		20.0			
2-Butanone (MEK)	0.3791 0.3428	0.3601	0.3609	0.3494	0.3446	Ave		0.3562			0.0500	3.8		20.0			
Ethyl acetate	0.5006 0.3092	0.4184	0.3185	0.3097	0.2920	Qua2	0.3685	0.3263	-0.000029						0.9900		0.9900
Methyl acrylate	0.2970 0.2848	0.2874	0.3168	0.2839	0.2720	Ave		0.2903				5.3		20.0			
Propionitrile	1.2972 1.4381	1.4089	1.3954	1.3987	1.2973	Ave		1.3726				4.4		20.0			
Tetrahydrofuran	0.4131 0.3913	0.4490	0.4244	0.4080	0.3970	Ave		0.4138				5.0		20.0			
Chlorobromomethane	0.2309 0.1899	0.2231	0.2218	0.2022	0.1943	Ave		0.2104				8.1		20.0			
Methacrylonitrile	0.1416 0.1292	0.1494	0.1491	0.1416	0.1242	Ave		0.1392				7.5		20.0			
Chloroform	0.6870 0.6116	0.7094	0.7152	0.6578	0.6222	Ave		0.6672			0.2000	6.6		20.0			
Cyclohexane	0.5850 0.5674	0.5931	0.6335	0.5974	0.5710	Ave		0.5912			0.1000	4.0		20.0			
1,1,1-Trichloroethane	0.6075 0.5635	0.6144	0.6314	0.5995	0.5645	Ave		0.5968			0.1000	4.6		20.0			
Carbon tetrachloride	0.5411 0.5081	0.5406	0.5602	0.5399	0.5050	Ave		0.5325			0.1000	4.0		20.0			
1,1-Dichloropropene	0.5445 0.4908	0.5145	0.5452	0.5189	0.4870	Ave		0.5168				4.9		20.0			
Isobutyl alcohol	0.0774 0.0621	0.0589	0.0566	0.0580	0.0588	Ave		0.0620				12.6		20.0			
Benzene	1.9033 1.7422	1.9743	1.9698	1.9059	1.7941	Ave		1.8816			0.5000	5.0		20.0			
Isopropyl acetate	1.2393 1.0782	1.2821	1.2539	1.1660	1.0507	Ave		1.1783				8.2		20.0			
Tert-amyl methyl ether	0.3446 0.3157	0.3682	0.3633	0.3359	0.3011	Ave		0.3381				7.8		20.0			
1,2-Dichloroethane	0.5228 0.4332	0.4770	0.4707	0.4361	0.4322	Ave		0.4620			0.1000	7.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.3797 0.3514	0.3608	0.3700	0.3619	0.3539	Ave		0.3629				2.9		20.0			
n-Butanol	0.4438 0.4084	0.3553	0.3539	0.3609	0.3506	Ave		0.3788				10.1		20.0			
Trichloroethene	0.4284 0.3709	0.3735	0.3925	0.3767	0.3633	Ave		0.3842			0.2000	6.2		20.0			
Ethyl acrylate	0.2462 0.2406	0.2478	0.2700	0.2486	0.2344	Ave		0.2479				4.9		20.0			
Methylcyclohexane	0.7140 0.7041	0.7006	0.7934	0.7511	0.7089	Ave		0.7287			0.1000	5.0		20.0			
1,2-Dichloropropane	0.4051 0.3710	0.4029	0.4048	0.3768	0.3678	Ave		0.3881			0.1000	4.6		20.0			
Methyl methacrylate	0.2011 0.2317	0.2374	0.2402	0.2250	0.2069	Ave		0.2237				7.3		20.0			
1,4-Dioxane	1.7939 1.1495	1.6906	1.6781	1.4577	1.2027	Ave		1.4954				18.1		20.0			
n-Propyl acetate	0.6185 0.5000	0.5510	0.5256	0.4828	0.4498	Ave		0.5213				11.3		20.0			
Dibromomethane	0.2468 0.2311	0.2371	0.2408	0.2279	0.2257	Ave		0.2349				3.5		20.0			
Bromodichloromethane	0.4242 0.5010	0.5195	0.5263	0.4956	0.4896	Ave		0.4927			0.2000	7.4		20.0			
2-Chloroethyl vinyl ether	0.2013 0.2107	0.2073	0.2127	0.1988	0.1838	Ave		0.2024				5.2		20.0			
2-Nitropropane	0.1216 +++++	0.1054	0.0893	0.0823	0.0750	Ave		0.0947				19.8		20.0			
Epichlorohydrin	0.3295 0.3062	0.3026	0.3051	0.3000	0.2972	Ave		0.3068				3.8		20.0			
cis-1,3-Dichloropropene	0.7013 0.7336	0.7212	0.7438	0.7152	0.7098	Ave		0.7208			0.2000	2.2		20.0			
4-Methyl-2-pentanone (MIBK)	3.1112 2.8902	3.2918	3.2541	3.1263	3.0271	Ave		3.1168			0.0500	4.7		20.0			
Toluene	1.9204 1.8690	1.9627	2.0001	1.9539	1.8700	Ave		1.9294			0.4000	2.7		20.0			
trans-1,3-Dichloropropene	0.6183 0.6372	0.6479	0.6449	0.6200	0.6147	Ave		0.6305			0.1000	2.3		20.0			
Ethyl methacrylate	0.6733 0.5531	0.5629	0.5947	0.5599	0.5484	Ave		0.5820				8.2		20.0			
1,1,2-Trichloroethane	0.3051 0.3278	0.3375	0.3316	0.3227	0.3213	Ave		0.3243			0.1000	3.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.3928 0.4739	0.4775	0.4897	0.4820	0.4597	Ave		0.4626			0.2000	7.7		20.0			
1,3-Dichloropropane	0.6218 0.6209	0.6176	0.6261	0.6058	0.6000	Ave		0.6154				1.7		20.0			
2-Hexanone	1.9054 1.9038	1.9826	2.0449	1.9701	1.8992	Ave		1.9510			0.0500	3.0		20.0			
n-Butyl acetate	0.7123 0.6429	0.7037	0.7249	0.6759	0.5955	Ave		0.6759				7.3		20.0			
Dibromochloromethane	0.4677 0.4687	0.4544	0.4616	0.4516	0.4527	Ave		0.4594			0.1000	1.7		20.0			
1,2-Dibromoethane	0.3706 0.3964	0.3881	0.3966	0.3890	0.3821	Ave		0.3871			0.1000	2.5		20.0			
Chlorobenzene	1.1741 1.2133	1.2212	1.2493	1.2200	1.1878	Ave		1.2109			0.5000	2.2		20.0			
Ethylbenzene	0.6676 0.6661	0.6746	0.7289	0.6998	0.6645	Ave		0.6836			0.1000	3.8		20.0			
1,1,1,2-Tetrachloroethane	0.5079 0.4778	0.5020	0.5166	0.4991	0.4819	Ave		0.4975				3.0		20.0			
m-Xylene & p-Xylene	0.8262 0.8267	0.8420	0.8658	0.8556	0.8164	Ave		0.8388			0.1000	2.3		20.0			
n-Butyl acrylate	0.3691 0.3185	0.3750	0.3700	0.3425	0.3052	Ave		0.3467				8.5		20.0			
o-Xylene	0.8763 0.8356	0.8593	0.9105	0.8880	0.8540	Ave		0.8706			0.3000	3.1		20.0			
Styrene	1.3135 1.3525	1.3966	1.4596	1.3992	1.3525	Ave		1.3790			0.3000	3.7		20.0			
Amyl acetate (mixed isomers)	1.4760 1.3949	1.5287	1.5329	1.4914	1.2934	Ave		1.4529				6.4		20.0			
Bromoform	0.2678 0.2992	0.3000	0.2992	0.2903	0.2910	Ave		0.2913			0.1000	4.2		20.0			
Isopropylbenzene	2.2162 2.1962	2.2764	2.4458	2.3831	2.2581	Ave		2.2960			0.1000	4.3		20.0			
Bromobenzene	0.8966 0.9970	0.9448	0.9797	0.9807	0.9563	Ave		0.9592				3.7		20.0			
1,1,2,2-Tetrachloroethane	0.9262 1.0331	0.9986	1.0375	1.0372	1.0014	Ave		1.0057			0.3000	4.3		20.0			
N-Propylbenzene	4.4417 4.7021	4.7681	5.0162	5.0582	4.7236	Ave		4.7850				4.7		20.0			
1,2,3-Trichloropropane	0.2129 0.2629	0.2869	0.2713	0.2630	0.2574	Ave		0.2591				9.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.2472 0.2474	0.2560	0.2495	0.2480	0.2385	Ave		0.2478				2.3		20.0			
2-Chlorotoluene	3.1569 3.1628	3.2580	3.3397	3.3420	3.1476	Ave		3.2345				2.8		20.0			
4-Ethyltoluene	3.8811 3.7717	3.9870	4.1876	4.1741	3.5662	Ave		3.9280				6.1		20.0			
1,3,5-Trimethylbenzene	3.2031 3.5704	3.4199	3.5835	3.6731	3.5307	Ave		3.4968				4.7		20.0			
4-Chlorotoluene	2.6138 2.7797	2.7485	2.8422	2.8195	2.7065	Ave		2.7517				3.0		20.0			
Butyl Methacrylate	1.0990 1.1936	1.2130	1.2624	1.2408	1.1096	Ave		1.1864				5.7		20.0			
tert-Butylbenzene	2.2732 2.9966	2.6307	2.8571	2.9659	2.8811	Ave		2.7674				9.9		20.0			
1,2,4-Trimethylbenzene	3.3122 3.6035	3.5468	3.7527	3.7649	3.6028	Ave		3.5972				4.6		20.0			
sec-Butylbenzene	3.9969 4.5853	4.3637	4.7321	4.8507	4.5899	Ave		4.5198				6.7		20.0			
4-Isopropyltoluene	3.6201 3.8861	3.8393	4.1207	4.1517	3.9375	Ave		3.9259				5.0		20.0			
1,3-Dichlorobenzene	1.7862 1.8326	1.8872	1.9366	1.9343	1.8241	Ave		1.8668			0.6000	3.3		20.0			
1,4-Dichlorobenzene	1.8261 1.8506	1.9305	1.9343	1.9021	1.8312	Ave		1.8792			0.5000	2.6		20.0			
Benzyl chloride	2.0970 1.9579	2.1989	2.1845	2.1254	1.8439	Ave		2.0679				6.7		20.0			
Indan	3.3912 3.4991	3.6279	3.7814	3.7772	3.3117	Ave		3.5648				5.5		20.0			
p-Diethylbenzene	2.1074 2.1109	2.2464	2.3741	2.3265	1.9934	Ave		2.1931				6.7		20.0			
n-Butylbenzene	2.0174 2.0527	2.1201	2.2337	2.2449	2.0872	Ave		2.1260				4.4		20.0			
1,2-Dichlorobenzene	1.8026 1.8874	1.8770	1.9867	1.9511	1.8682	Ave		1.8955			0.4000	3.4		20.0			
1,2,4,5-Tetramethylbenzene	3.7162 3.7757	3.9541	4.2647	4.1637	3.6031	Ave		3.9129				6.7		20.0			
1,2-Dibromo-3-Chloropropane	0.2340 0.2054	0.2157	0.2045	0.2022	0.1965	Ave		0.2097			0.0500	6.4		20.0			
1,3,5-Trichlorobenzene	1.6939 1.5524	1.6212	1.7632	1.6938	1.4614	Ave		1.6310				6.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.5412 1.5016	1.5987	1.6257	1.5926	1.5180	Ave		1.5630			0.2000	3.2		20.0			
Hexachlorobutadiene	0.6719 0.8212	0.7239	0.7860	0.7918	0.7721	Ave		0.7612				7.1		20.0			
Naphthalene	3.5262 3.5908	3.7629	3.8780	3.8546	3.6160	Ave		3.7047				4.0		20.0			
1,2,3-Trichlorobenzene	1.5317 1.4774	1.5010	1.5787	1.5296	1.4829	Ave		1.5169				2.5		20.0			
Dibromofluoromethane (Surr)	0.3567 0.3158	0.3543	0.3552	0.3407	0.3251	Ave		0.3413				5.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3396 0.3722	0.3422	0.3513	0.3316	0.3419	Ave		0.3465				4.1		20.0			
Toluene-d8 (Surr)	1.5151 1.5440	1.5661	1.5603	1.5734	1.5386	Ave		1.5496				1.4		20.0			
4-Bromofluorobenzene	0.4548 0.4525	0.4646	0.4685	0.4637	0.4523	Ave		0.4594				1.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-525743/3	K84641.D
Level 2	STD5 460-525743/4	K84642.D
Level 3	STD20 460-525743/5	K84643.D
Level 4	STD50 460-525743/6	K84644.D
Level 5	STD200 460-525743/7	K84645.D
Level 6	STD500 460-525743/8	K84646.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	3020 1680942	12306	55360	142264	635802	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Ave	5392 3745626	28942	136314	355155	1395420	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	6613 3153255	30988	124755	314949	1215799	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	5754 3092866	29612	120134	310832	1187114	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	4668 2762634	22547	93840	255389	1057315	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	4534 1879231	21886	82406	199709	787086	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	3067 1308305	15826	58276	143626	551698	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	9838 4157881	47010	190012	479254	1625541	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	6651 3622731	33016	149411	377461	1366965	1.00 500	5.00	20.0	50.0	200
Pentane	TBAd9	Ave	1309 648582	6790	27083	70561	232871	2.00 1000	10.0	40.0	100	400
Ethyl ether	FB	Ave	3350 1688004	17220	68857	168066	669062	1.00 500	5.00	20.0	50.0	200
Ethanol	TBAd9	Ave	1298 569165	5733	23683	56321	212756	40.0 20000	200	800	2000	8000
2-Methyl-1,3-butadiene	FB	Ave	3759 1880260	18011	76466	193944	680546	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	3816 2102961	17785	85662	205400	797552	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	79171 430347	158991	215680	292537	349119	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	4057 2518057	22142	99421	245443	962221	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	4238 2194970	19851	82952	214154	818518	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	QuaF	11453 3321670	32401	134990	321468	1264068	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	7889 4237588	40562	165547	410728	1598946	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	5446 2072900	21785	86162	199008	758591	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	15230 8616598	80519	341331	840856	3257072	1.00 500	5.00	20.0	50.0	200
Allyl chloride	FB	Ave	2875 1449765	13727	58542	143708	537049	1.00 500	5.00	20.0	50.0	200
Methyl acetate	TBAd9	Ave	6641 3185966	29227	126118	313211	1190765	2.00 1000	10.0	40.0	100	400
Cyclopentene	FB	Ave	10920 5394167	52367	227011	552577	1930690	1.00 500	5.00	20.0	50.0	200
Acetonitrile	TBAd9	Ave	9299 3676796	38928	159633	384221	1394022	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	6072 2523222	25514	99625	246745	953163	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	6837 3406589	34833	139164	332574	1280849	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	12559 6597762	63821	269362	646051	2522451	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	5396 2309322	23758	94962	232567	884770	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	15022 8151710	81005	332656	811094	3126847	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	5459 2276964	22611	91466	225062	871447	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	16219 7549456	79202	321316	779830	2769853	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	8655 4068945	41137	169839	415909	1583774	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	TBAd9	Ave	1414 827475	8095	33319	79633	319341	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	4051 2058378	20165	82511	210818	728590	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	13606 7002506	71025	294955	714194	2534579	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	2900 1149149	11905	48323	115433	444418	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	5564 2630722	27300	107052	262836	1016961	1.00 500	5.00	20.0	50.0	200
2-Butanone (MEK)	BUT	Ave	2556 1354557	12286	50941	126073	501669	5.00 2500	25.0	100	250	1000
Ethyl acetate	BUT	Qua2	1350 488723	5711	17981	44693	170003	2.00 1000	10.0	40.0	100	400
Methyl acrylate	FB	Ave	3429 1889559	16498	73774	174311	682790	1.00 500	5.00	20.0	50.0	200
Propionitrile	TBAd9	Ave	5811 3392374	31713	133053	328722	1179204	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	1114 618599	6128	23962	58891	231163	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	2666 1259750	12806	51640	124173	487740	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	16355 8573595	85753	347197	869590	3116747	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	7932 4057685	40722	166532	403884	1561928	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	6755 3764444	34050	147499	366783	1433327	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	7015 3738113	35271	147008	368082	1417084	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	6248 3370818	31033	130451	331474	1267638	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	6287 3256238	29538	126954	318603	1222421	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	867 366251	3315	13486	34053	133650	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	17471 9342739	90720	370927	916241	3583498	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	14309 7152619	73600	291966	715907	2637382	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	3979 2094289	21135	84590	206226	755894	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	6036 2874072	27384	109610	267756	1084942	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	4384 2331167	20712	86148	222179	888344	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	4970 2408585	19993	84363	212068	796622	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	4947 2460635	21439	91382	231275	911912	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	2843 1596229	14225	62864	152653	588408	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	8244 4671103	40219	184729	461144	1779557	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	4678 2461003	23127	94255	231361	923192	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	4643 3073958	27257	111870	276275	1038855	2.00 1000	10.0	40.0	100	400
1,4-Dioxane	DXE	Ave	1202 582914	5356	22420	54300	214941	20.0 10000	100	400	1000	4000
n-Propyl acetate	FB	Ave	7141 3317075	31632	122376	296442	1129034	1.00 500	5.00	20.0	50.0	200
Dibromomethane	FB	Ave	2850 1533449	13612	56058	139925	566619	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	4898 3323762	29824	122546	304285	1228996	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	2324 1397676	11903	49527	122092	461358	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	2809 +++++	12104	41600	101027	376718	2.00 +++++	10.0	40.0	100	400
Epichlorohydrin	BUT	Ave	8885 4839566	41305	172263	432994	1730744	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	6438 3933757	33141	140064	343796	1417660	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	20975 11421383	112325	459274	1128092	4406421	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	17628 10022856	90187	376637	939272	3735089	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	5676 3417284	29773	121437	298073	1227730	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	CBNZ d5	Ave	6181 2966328	25863	111982	269149	1095327	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	2801 1757744	15508	62435	155145	641820	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	3606 2541475	21943	92208	231720	918163	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	5708 3329577	28379	117896	291208	1198479	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	12846 7523422	67651	288613	710895	2764600	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	6539 3447523	32337	136504	324910	1189513	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromochloromethane	CBNZ d5	Ave	4293 2513333	20881	86926	217101	904161	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBNZ d5	Ave	3402 2125842	17831	74678	187018	763149	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	10778 6506394	56113	235249	586463	2372400	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	6128 3572164	30998	137258	336402	1327230	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4662 2562178	23065	97275	239948	962486	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	7584 4433125	38689	163037	411322	1630692	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	3388 1708144	17231	69664	164673	609665	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	8044 4481108	39485	171453	426877	1705778	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	12057 7253115	64172	274857	672653	2701360	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	7917 3956810	40363	166136	392547	1418848	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	2458 1604491	13787	56340	139579	581153	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Ave	20344 11777467	104602	460555	1145625	4510151	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	4809 2828195	24945	106178	258144	1048993	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4968 2930457	26365	112446	273006	1098510	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	23825 13337965	125893	543641	1331383	5181654	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	1142 745676	7574	29408	69219	282372	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1326 701765	6760	27037	65270	261673	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	16933 8971558	86020	361951	879675	3452779	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	20818 10698636	105270	453842	1098679	3911961	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	17181 10127665	90296	388372	966816	3873020	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	14020 7884677	72569	308028	742138	2968885	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	5895 3385866	32028	136817	326598	1217189	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Ave	12193 8499925	69458	309641	780680	3160400	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	17766 10221628	93647	406711	990983	3952150	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Ave	21439 13006514	115214	512856	1276776	5034900	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Ave	19418 11023247	101370	446588	1092793	4319311	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	9581 5198187	49828	209884	509136	2000912	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	9795 5249426	50972	209630	500674	2008791	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	11248 5553646	58058	236754	559441	2022703	1.00 500	5.00	20.0	50.0	200
Indan	DCBd 4	Ave	18190 9925452	95788	409819	994222	3632759	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	11304 5987629	59312	257298	612376	2186672	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Ave	10821 5822518	55978	242087	590890	2289563	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	9669 5353839	49558	215317	513562	2049330	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	19933 10710053	104399	462195	1095948	3952484	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	1255 582541	5694	22168	53214	215501	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	9086 4403366	42805	191087	445845	1603081	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	8267 4259474	42211	176186	419206	1665233	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Ave	3604 2329352	19113	85185	208412	847013	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	18914 10185520	99352	420289	1014588	3966554	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	8216 4190800	39632	171093	402625	1626690	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	205911 209521	203385	206755	209164	203997	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	196031 246904	196424	204523	203621	214568	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-158997-1 Analy Batch No.: 525743

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 06/07/2018 01:00 Calibration End Date: 06/07/2018 03:02 Calibration ID: 69283

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	695397 828007	719619	734552	756376	768270	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	208750 242632	213470	220536	222890	225858	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 07-Jun-2018 01:00:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0073325-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:02:52 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: boykink Date: 07-Jun-2018 03:05:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.596	0.006	78	3020	1.00	1.08	
2 Dichlorodifluoromethane	85	1.639	1.632	0.007	80	5392	1.00	0.8607	
3 Chloromethane	50	1.815	1.809	0.006	98	6613	1.00	1.10	
4 Vinyl chloride	62	1.913	1.907	0.006	96	5754	1.00	1.00	
5 Butadiene	54	1.907	1.913	-0.006	78	4668	1.00	0.9886	
6 Bromomethane	94	2.224	2.212	0.012	85	4534	1.00	1.15	
7 Chloroethane	64	2.279	2.273	0.006	94	3067	1.00	1.10	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	61	6651	1.00	0.9880	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	95	9838	1.00	1.13	
10 Pentane	72	2.498	2.492	0.006	99	1309	2.00	2.05	
11 Ethyl ether	59	2.693	2.693	0.000	91	3350	1.00	1.04	
12 Ethanol	46	2.742	2.693	0.049	66	1298	40.0	46.1	Ma
13 2-Methyl-1,3-butadiene	53	2.724	2.711	0.013	91	3759	1.00	1.06	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.736	0.000	85	3816	1.00	1.00	a
15 Acrolein	56	2.882	2.870	0.012	95	79171	100.0	109.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.882	2.894	-0.012	42	4057	1.00	0.9061	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	96	4238	1.00	1.06	
18 Acetone	43	3.004	2.998	0.006	85	11453	5.00	9.55	
19 Iodomethane	142	3.077	3.071	0.006	98	7889	1.00	1.01	
22 Isopropyl alcohol	45	3.108	3.077	0.031	32	5446	10.0	12.9	a
20 Carbon disulfide	76	3.114	3.108	0.006	98	15230	1.00	0.9707	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	94	2875	1.00	1.06	
23 Methyl acetate	43	3.260	3.242	0.018	72	6641	2.00	2.20	
24 Cyclopentene	67	3.260	3.260	0.000	93	10920	1.00	1.07	
29 Acetonitrile	41	3.352	3.309	0.043	27	9299	10.0	12.2	a
* 25 TBA-d9 (IS)	65	3.364	3.358	0.006	0	447975	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	31	6072	1.00	1.23	
27 2-Methyl-2-propanol	59	3.443	3.425	0.018	94	6837	10.0	10.4	
28 Methyl tert-butyl ether	73	3.529	3.522	0.007	93	12559	1.00	1.02	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	97	5396	1.00	1.18	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.626	0.012	95	15022	10.0	9.84	
32 Hexane	43	3.718	3.711	0.007	90	5459	1.00	1.22	
33 Isopropyl ether	45	3.919	3.919	0.000	86	16219	1.00	1.10	
35 Vinyl acetate	86	3.974	3.967	0.007	99	1414	2.00	1.83	
34 1,1-Dichloroethane	63	3.968	3.967	0.001	81	8655	1.00	1.09	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	89	4051	1.00	1.05	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	86	13606	1.00	1.02	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	337091	250.0	250.0	
39 2,2-Dichloropropane	79	4.486	4.467	0.019	45	2900	1.00	1.25	a
41 Ethyl acetate	70	4.498	4.498	0.000	83	1350	2.00	1.94	
42 2-Butanone (MEK)	72	4.498	4.498	0.000	95	2556	5.00	5.32	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	71	5564	1.00	1.09	
44 Methyl acrylate	55	4.571	4.553	0.018	81	3429	1.00	1.02	a
43 Propionitrile	54	4.644	4.638	0.006	86	5811	10.0	9.45	a
45 Tetrahydrofuran	72	4.742	4.723	0.019	30	1114	2.00	2.00	a
46 Chlorobromomethane	128	4.730	4.729	0.001	44	2666	1.00	1.10	
47 Methacrylonitrile	67	4.748	4.742	0.006	93	16355	10.0	10.2	
48 Chloroform	83	4.778	4.772	0.006	97	7932	1.00	1.03	
49 Cyclohexane	84	4.919	4.918	0.001	31	6755	1.00	0.9895	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	36	7015	1.00	1.02	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	205911	50.0	52.3	
52 Carbon tetrachloride	117	5.053	5.052	0.001	95	6248	1.00	1.02	
53 1,1-Dichloropropene	75	5.089	5.077	0.012	94	6287	1.00	1.05	
56 Isobutyl alcohol	74	5.181	5.193	-0.012	36	867	25.0	31.2	a
54 Benzene	78	5.284	5.278	0.006	43	17471	1.00	1.01	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.290	0.007	0	196031	50.0	49.0	
57 Isopropyl acetate	43	5.315	5.321	-0.006	95	14309	1.00	1.05	a
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	90	3979	1.00	1.02	
59 1,2-Dichloroethane	62	5.370	5.369	0.001	94	6036	1.00	1.13	
60 n-Heptane	57	5.425	5.424	0.001	93	4384	1.00	1.05	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	577322	50.0	50.0	
62 n-Butanol	56	5.863	5.851	0.012	55	4970	25.0	29.3	
63 Trichloroethene	95	5.931	5.930	0.001	98	4947	1.00	1.12	
64 Ethyl acrylate	56	6.040	6.058	-0.018	90	2843	1.00	0.99	
65 Methylcyclohexane	83	6.059	6.058	0.001	89	8244	1.00	0.9798	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	92	4678	1.00	1.04	
* 67 1,4-Dioxane-d8	96	6.272	6.278	-0.006	0	33503	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	94	4643	2.00	1.80	
70 n-Propyl acetate	43	6.333	6.327	0.006	96	7141	1.00	1.19	
69 1,4-Dioxane	88	6.321	6.327	-0.006	32	1202	20.0	24.0	
71 Dibromomethane	93	6.357	6.357	0.000	94	2850	1.00	1.05	
72 Dichlorobromomethane	83	6.510	6.503	0.007	98	4898	1.00	0.8610	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	66	2324	1.00	0.99	
74 2-Nitropropane	41	6.839	6.833	0.006	81	2809	2.00	2.57	
75 Epichlorohydrin	57	6.943	6.942	0.001	99	8885	20.0	21.5	
76 cis-1,3-Dichloropropene	75	7.004	7.003	0.001	91	6438	1.00	0.9730	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	97	20975	5.00	4.99	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	695397	50.0	48.9	
79 Toluene	91	7.333	7.333	0.000	93	17628	1.00	1.00	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	96	5676	1.00	0.9807	
81 Ethyl methacrylate	69	7.698	7.692	0.006	84	6181	1.00	1.16	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	95	2801	1.00	0.9408	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.955	7.954	0.001	96	3606	1.00	0.8492	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	97	5708	1.00	1.01	
85 2-Hexanone	43	8.162	8.156	0.006	97	12846	5.00	4.88	
86 n-Butyl acetate	43	8.265	8.271	-0.006	96	6539	1.00	1.05	
87 Chlorodibromomethane	129	8.351	8.351	0.000	96	4293	1.00	1.02	
88 Ethylene Dibromide	107	8.515	8.509	0.006	96	3402	1.00	0.9573	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	458976	50.0	50.0	
90 Chlorobenzene	112	9.088	9.094	-0.006	95	10778	1.00	0.9696	
92 Ethylbenzene	106	9.180	9.186	-0.006	98	6128	1.00	0.9766	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	69	4662	1.00	1.02	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	7584	1.00	0.9850	
94 n-Butyl acrylate	73	9.771	9.771	0.000	94	3388	1.00	1.06	
95 o-Xylene	106	9.802	9.802	0.000	93	8044	1.00	1.01	
96 Styrene	104	9.838	9.832	0.006	98	12057	1.00	0.9525	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	90	7917	1.00	1.02	
98 Bromoform	173	10.070	10.070	0.000	93	2458	1.00	0.9194	
99 Isopropylbenzene	105	10.186	10.186	0.000	94	20344	1.00	0.9653	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	90	208750	50.0	49.5	
101 Bromobenzene	156	10.552	10.551	0.001	96	4809	1.00	0.9347	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	4968	1.00	0.9210	
103 N-Propylbenzene	91	10.613	10.612	0.001	98	23825	1.00	0.9283	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	93	1142	1.00	0.8218	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	70	1326	1.00	1.00	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	20818	1.00	0.9881	
106 2-Chlorotoluene	91	10.728	10.728	0.000	88	16933	1.00	0.9760	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	17181	1.00	0.9160	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	14020	1.00	0.9499	
110 Butyl Methacrylate	87	10.887	10.887	0.000	91	5895	1.00	0.9263	
111 tert-Butylbenzene	119	11.094	11.094	0.000	93	12193	1.00	0.8214	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	17766	1.00	0.9208	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	21439	1.00	0.8843	
114 4-Isopropyltoluene	119	11.423	11.429	-0.006	97	19418	1.00	0.9221	
115 1,3-Dichlorobenzene	146	11.442	11.441	0.001	94	9581	1.00	0.9568	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	95	268194	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	90	9795	1.00	0.9718	
118 Benzyl chloride	91	11.655	11.655	0.000	98	11248	1.00	1.01	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	18190	1.00	0.9513	
120 p-Diethylbenzene	119	11.765	11.765	0.000	94	11304	1.00	0.9609	a
121 n-Butylbenzene	92	11.783	11.789	-0.006	96	10821	1.00	0.9489	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	95	9669	1.00	0.9510	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	19933	1.00	0.9497	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.514	0.001	92	1255	1.00	1.12	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	9086	1.00	1.04	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	95	8267	1.00	0.9861	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	93	3604	1.00	0.8827	
128 Naphthalene	128	13.319	13.319	0.000	99	18914	1.00	0.9518	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	94	8216	1.00	1.01	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.28	
S 131 Xylenes, Total	100				0		2.00	1.99	
S 132 Total BTEX	1				0		5.00	4.97	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00263	Amount Added:	1.00	Units: uL	
ACROLEIN W_00077	Amount Added:	10.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	1.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

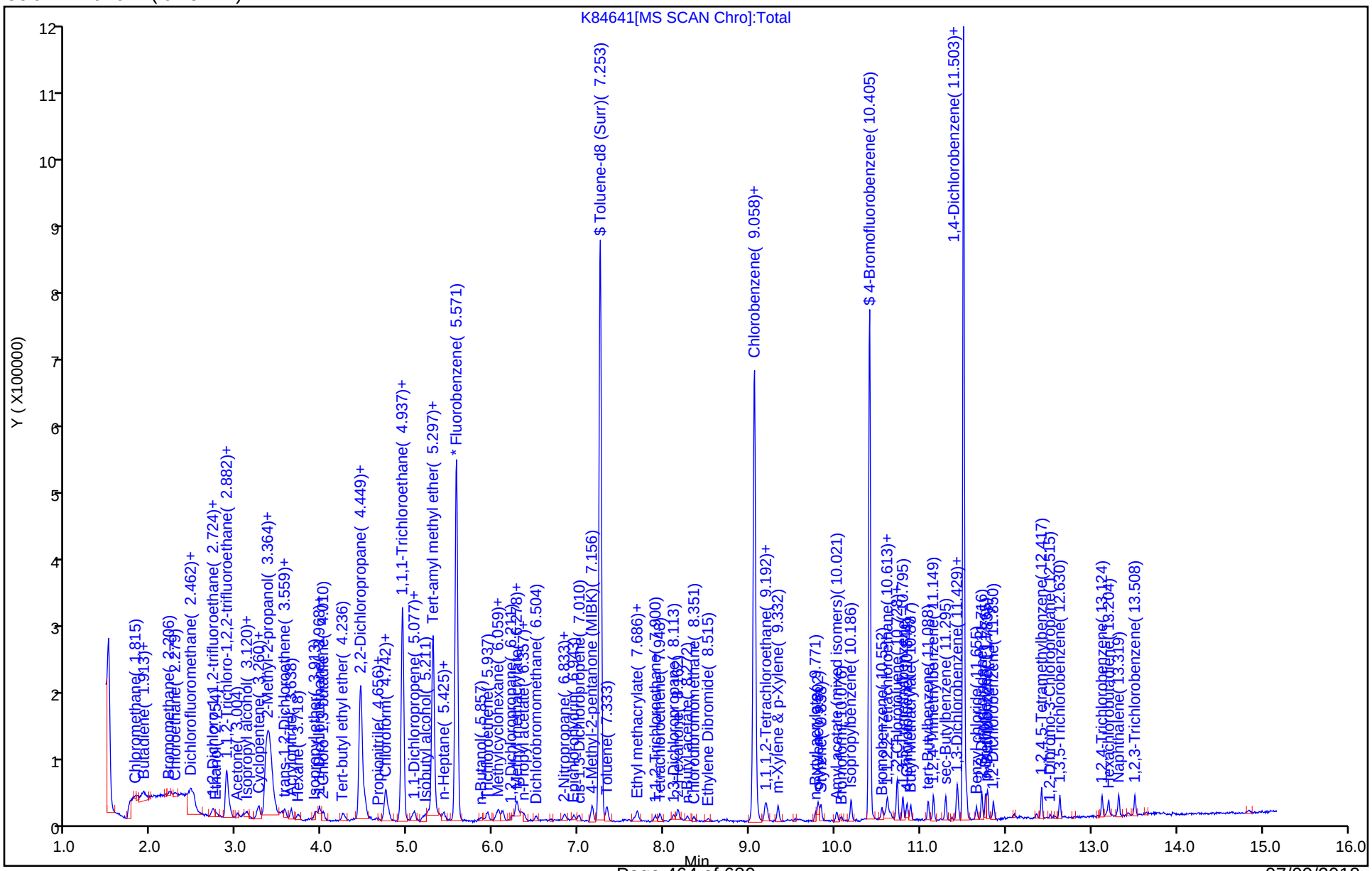
Report Date: 07-Jun-2018 15:02:55 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D

Injection Date:	07-Jun-2018 01:00:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

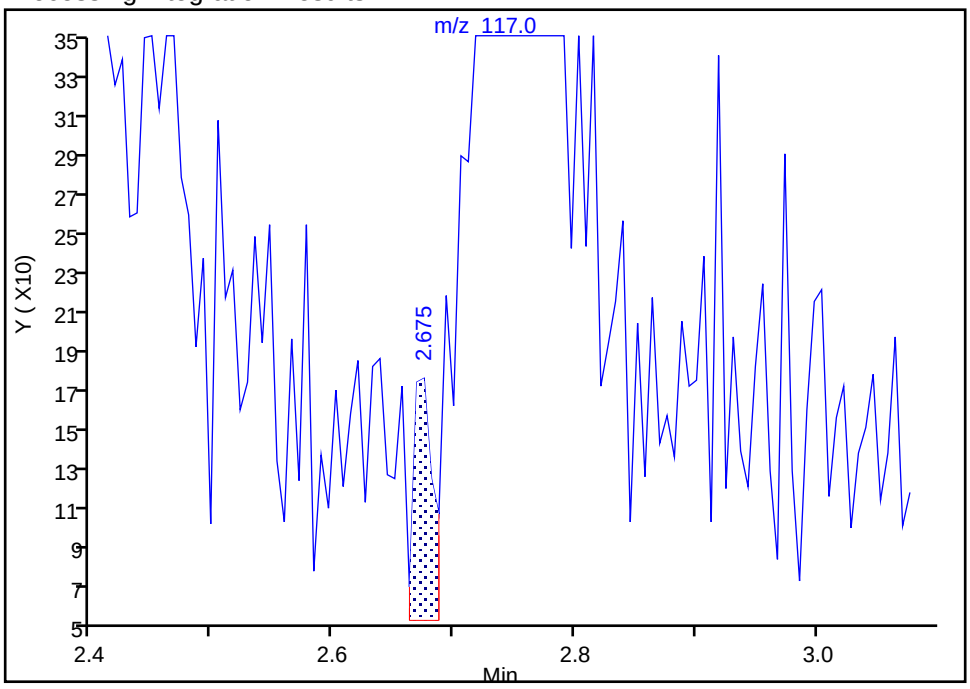
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Signal: 1

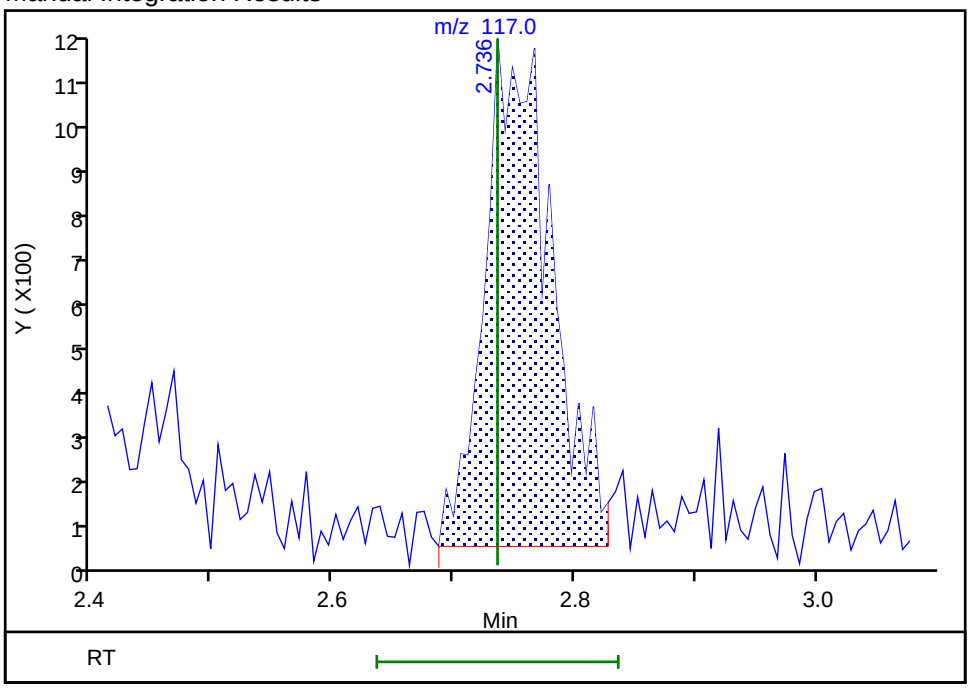
Processing Integration Results

RT: 2.68
Area: 142
Amount: 0.038242
Amount Units: ug/l



Manual Integration Results

RT: 2.74
Area: 3816
Amount: 1.002786
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:07
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

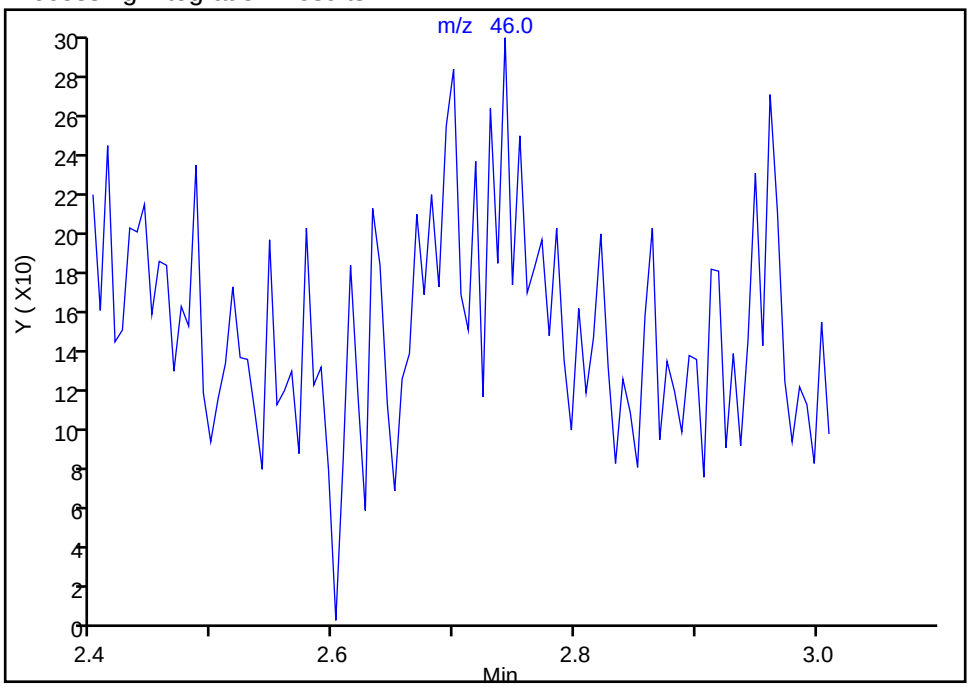
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

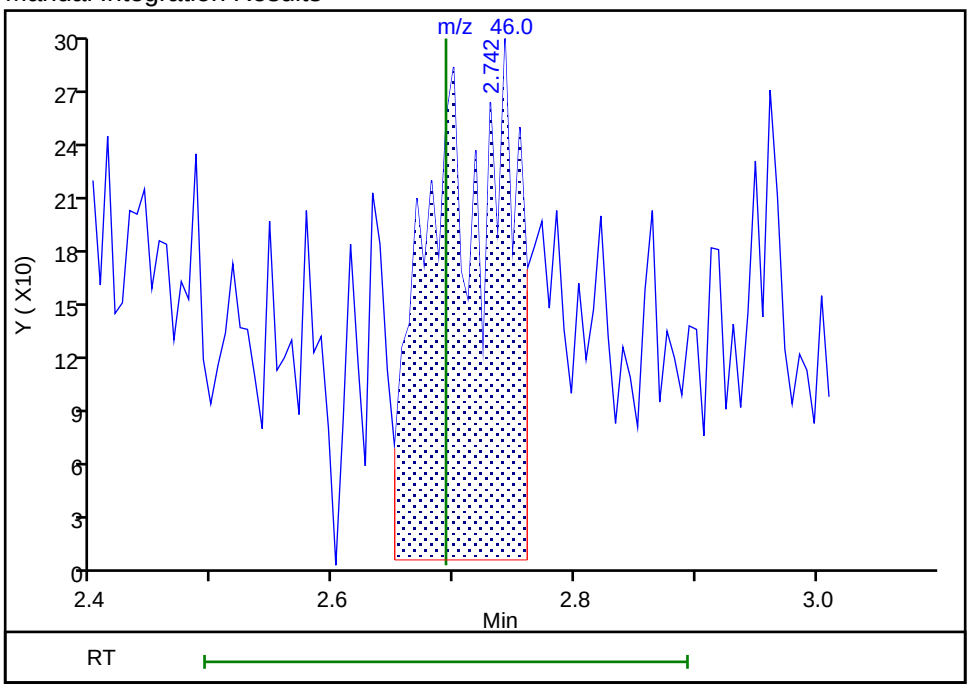
Not Detected
Expected RT: 2.69

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 1298
Amount: 46.119465
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:34:54
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

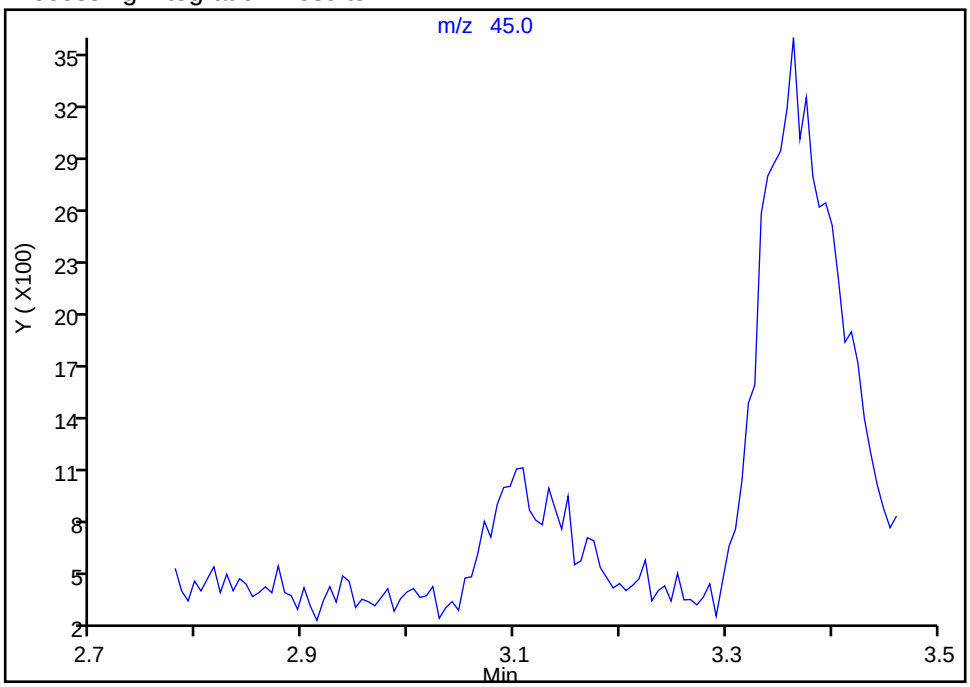
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

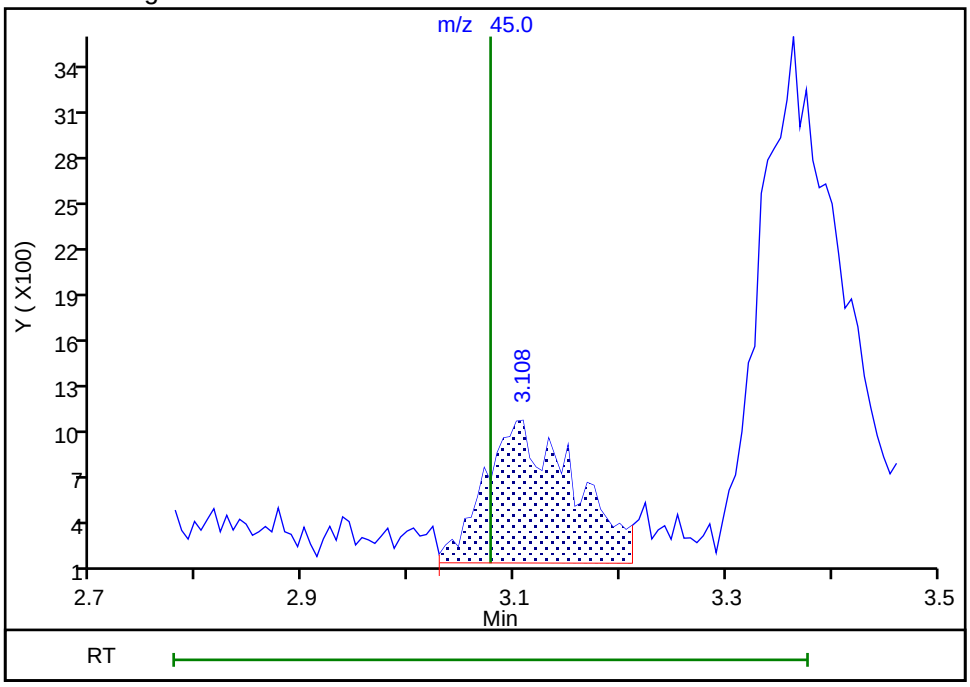
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 5446
Amount: 12.916302
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:13
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

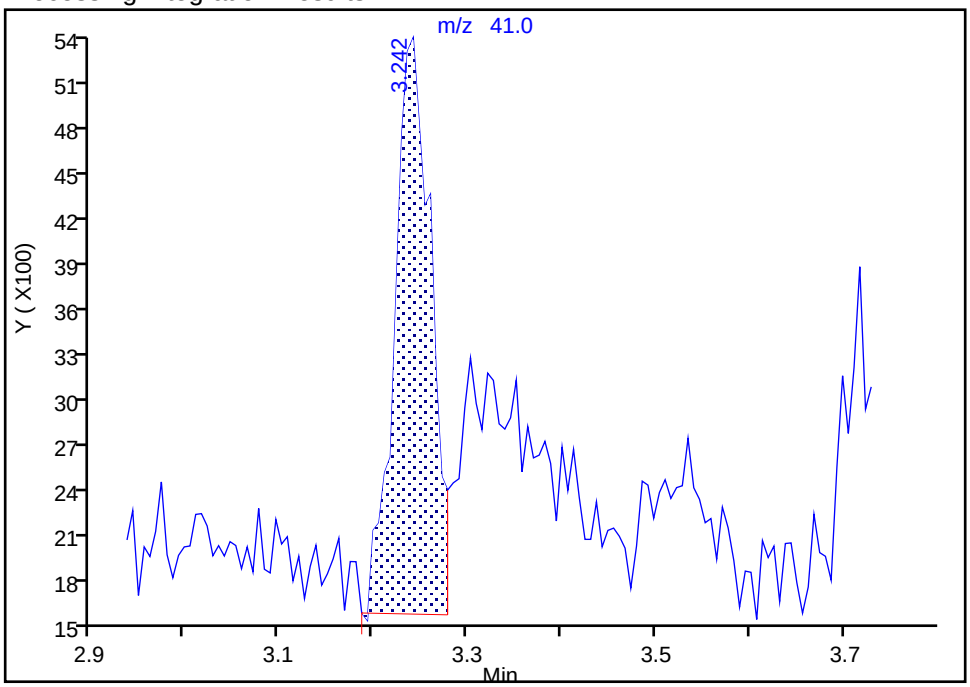
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

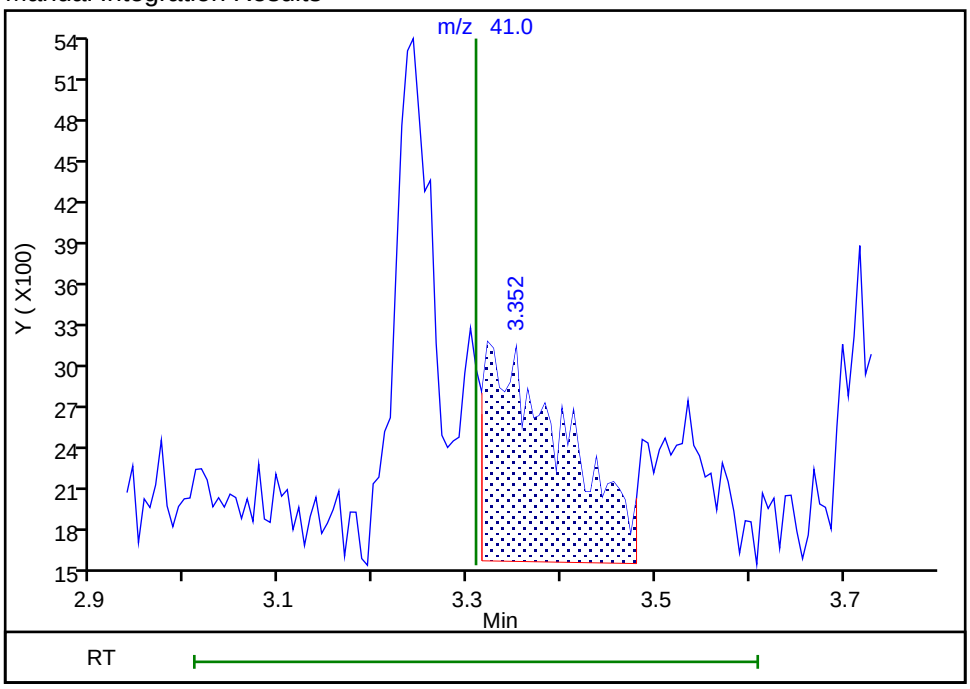
Processing Integration Results

RT: 3.24
Area: 10039
Amount: 11.742716
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 9299
Amount: 12.202660
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:19
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

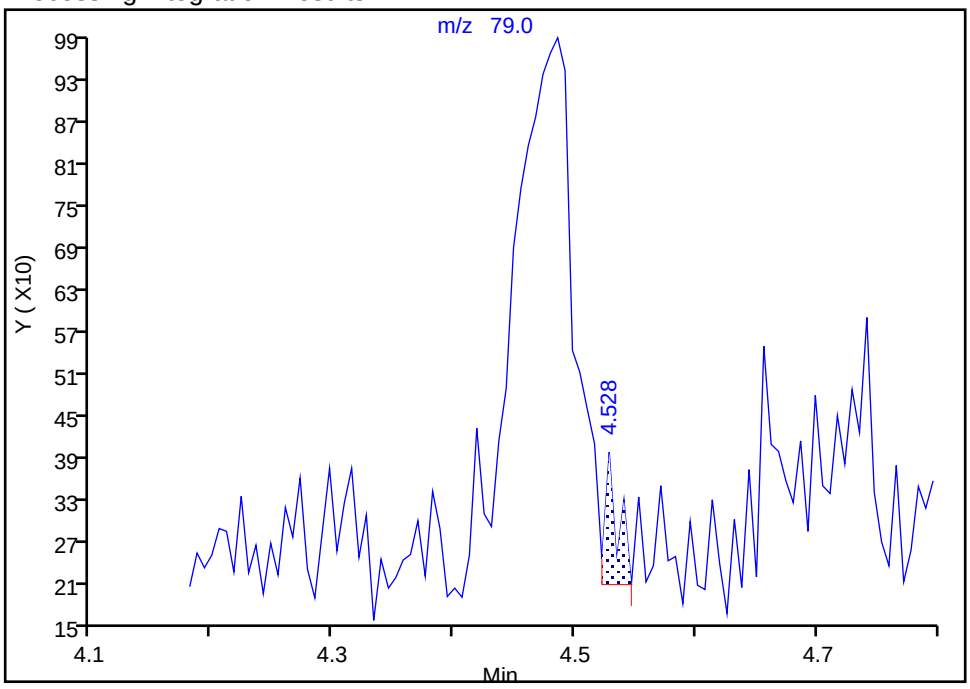
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

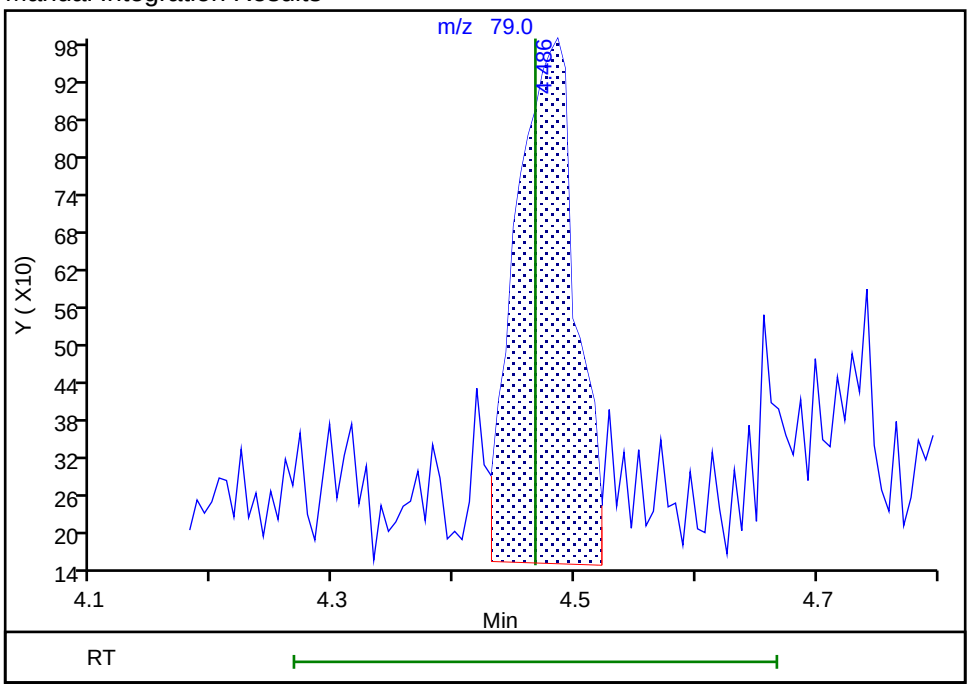
Processing Integration Results

RT: 4.53
Area: 139
Amount: 0.066265
Amount Units: ug/l



Manual Integration Results

RT: 4.49
Area: 2900
Amount: 1.251273
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:29
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

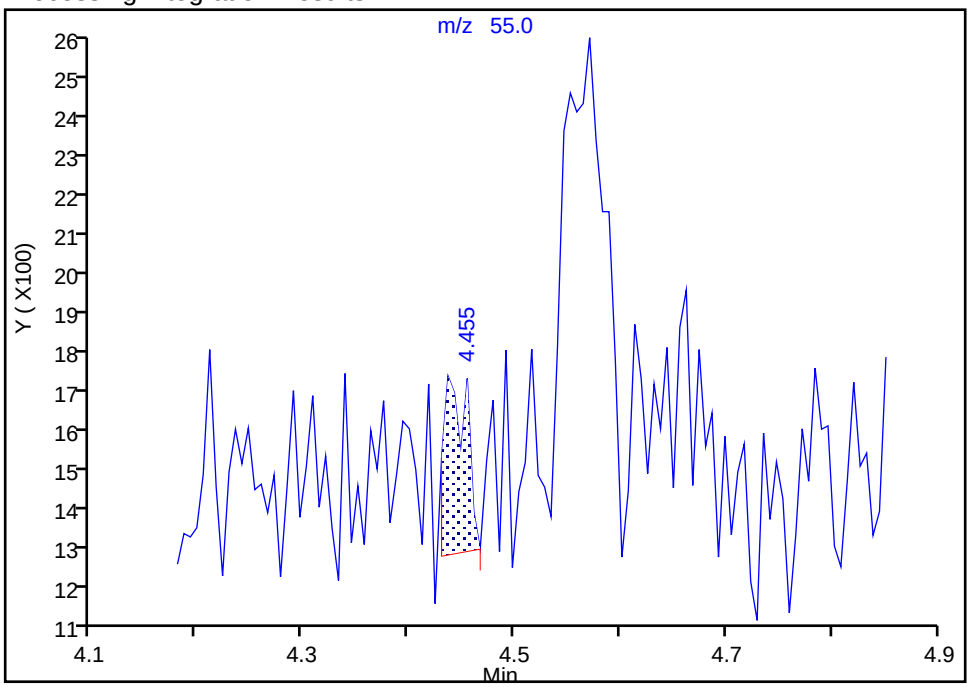
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

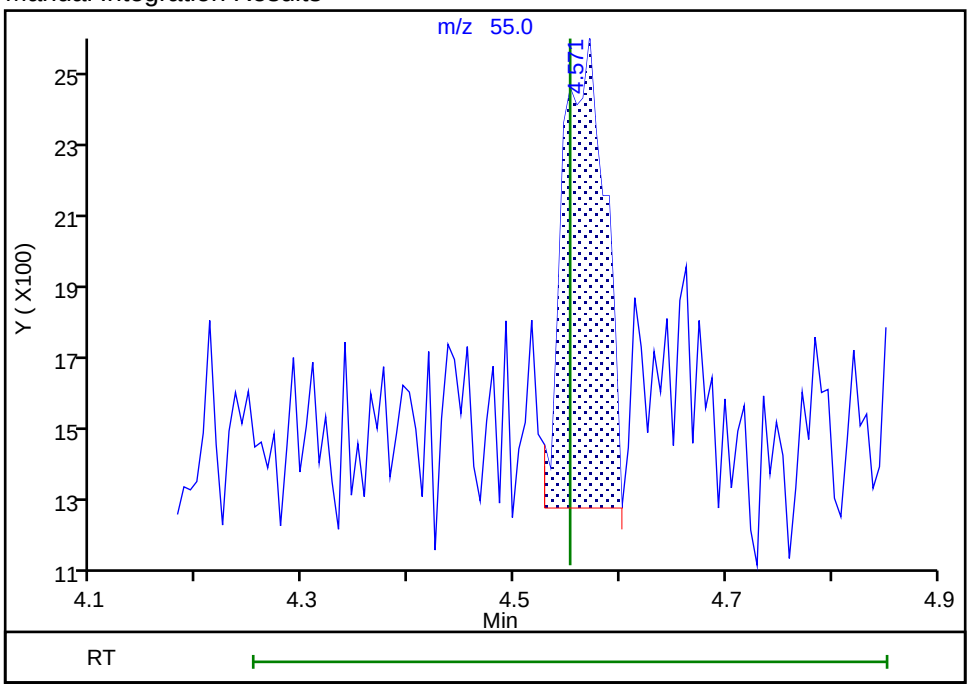
Processing Integration Results

RT: 4.46
Area: 655
Amount: 0.212291
Amount Units: ug/l



Manual Integration Results

RT: 4.57
Area: 3429
Amount: 1.022916
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:34
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

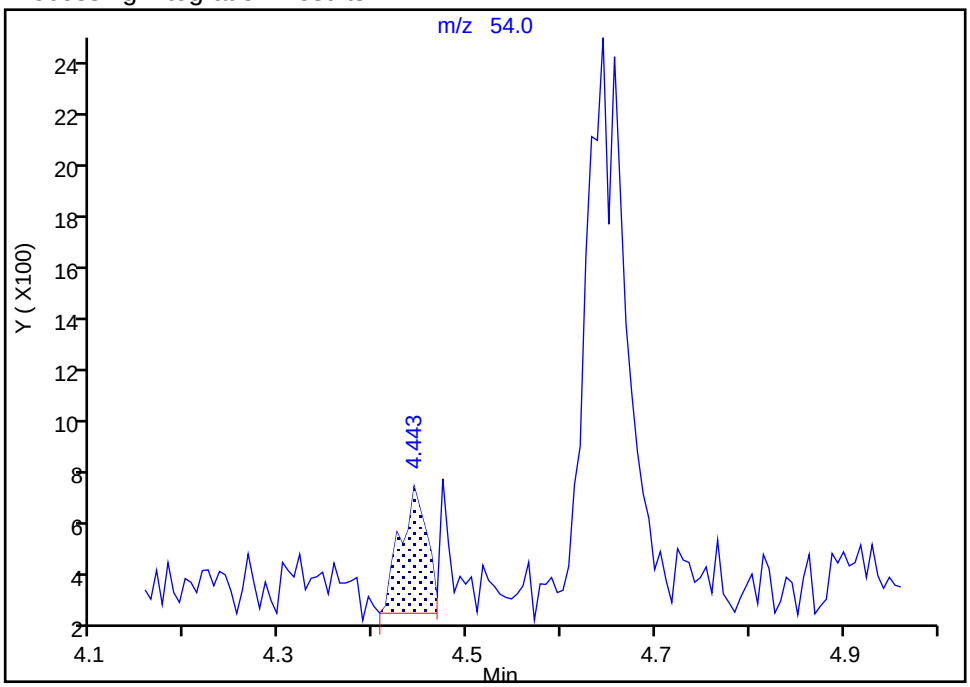
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Propionitrile, CAS: 107-12-0

Signal: 1

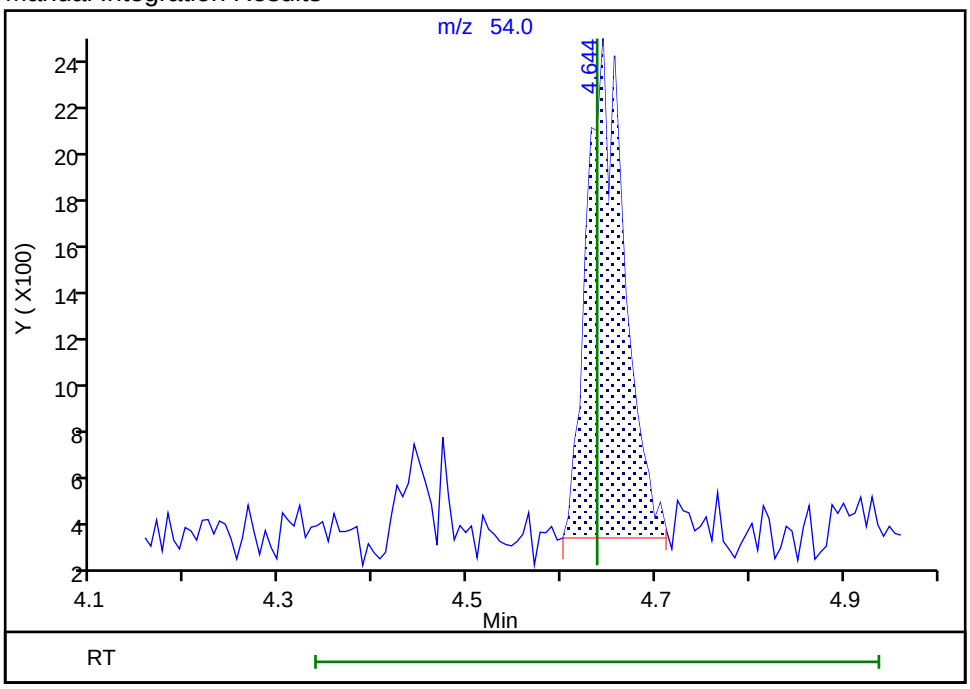
Processing Integration Results

RT: 4.44
Area: 940
Amount: 1.712310
Amount Units: ug/l



Manual Integration Results

RT: 4.64
Area: 5811
Amount: 9.450474
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:38
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

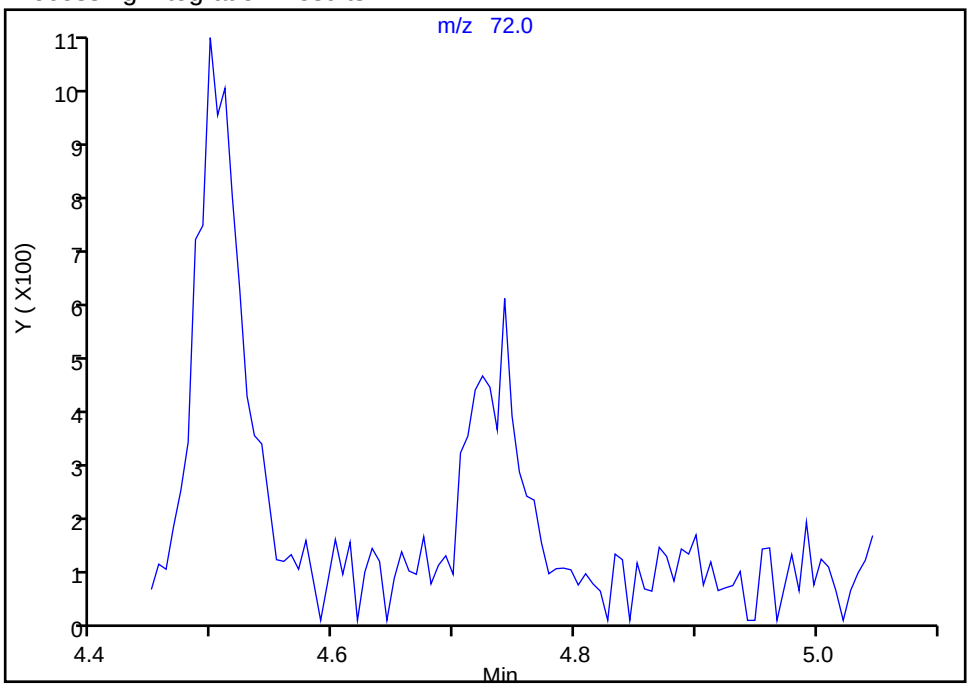
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

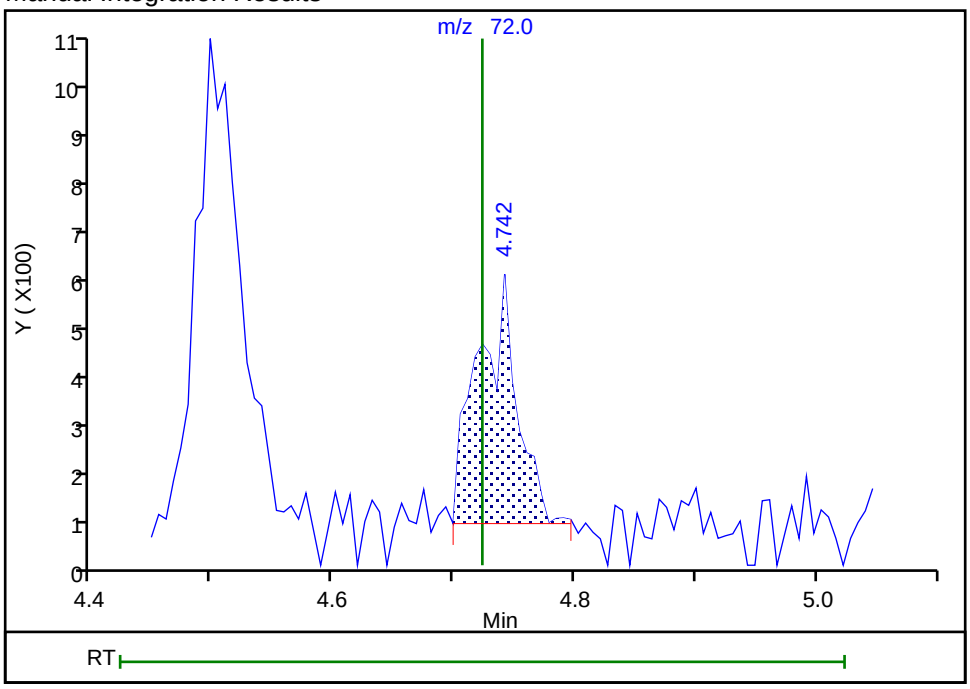
Not Detected
Expected RT: 4.72

Processing Integration Results



Manual Integration Results

RT: 4.74
Area: 1114
Amount: 1.996521
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:42
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

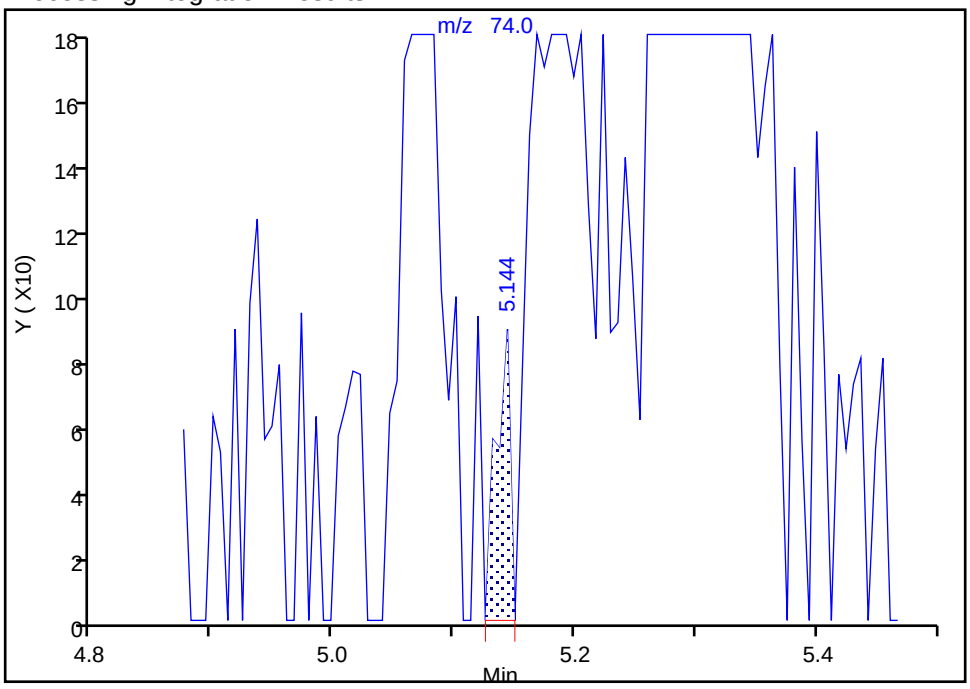
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

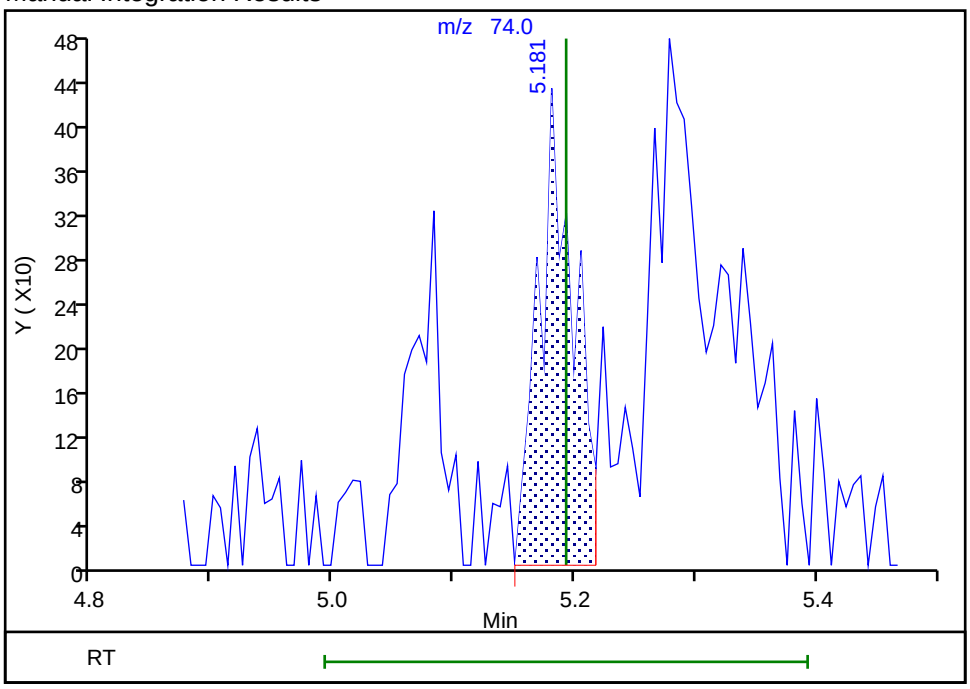
Processing Integration Results

RT: 5.14
Area: 73
Amount: 2.893622
Amount Units: ug/l



Manual Integration Results

RT: 5.18
Area: 867
Amount: 31.234542
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:49
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

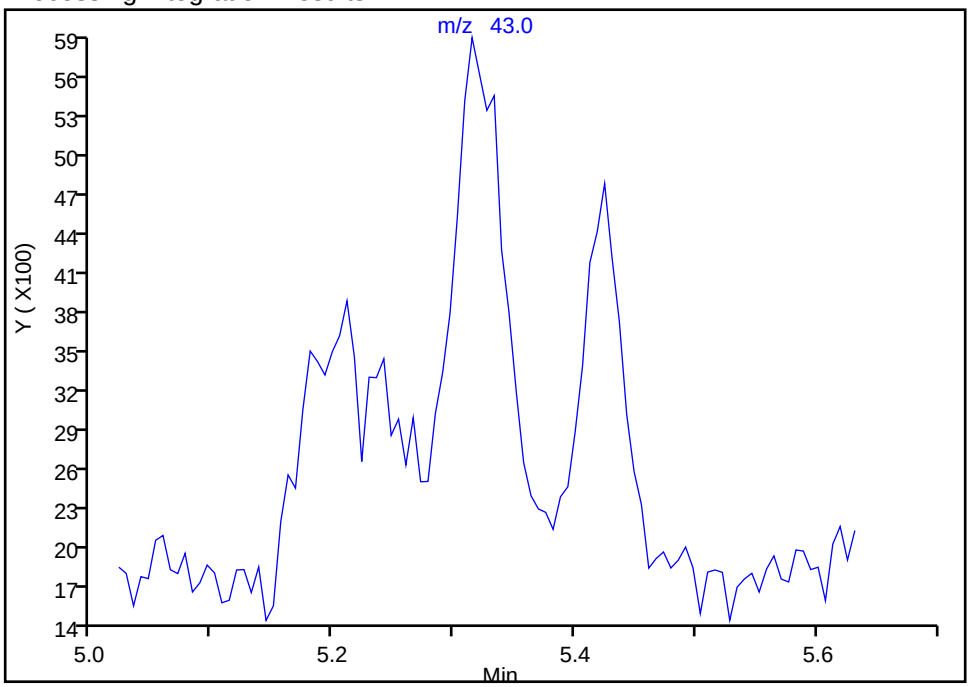
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

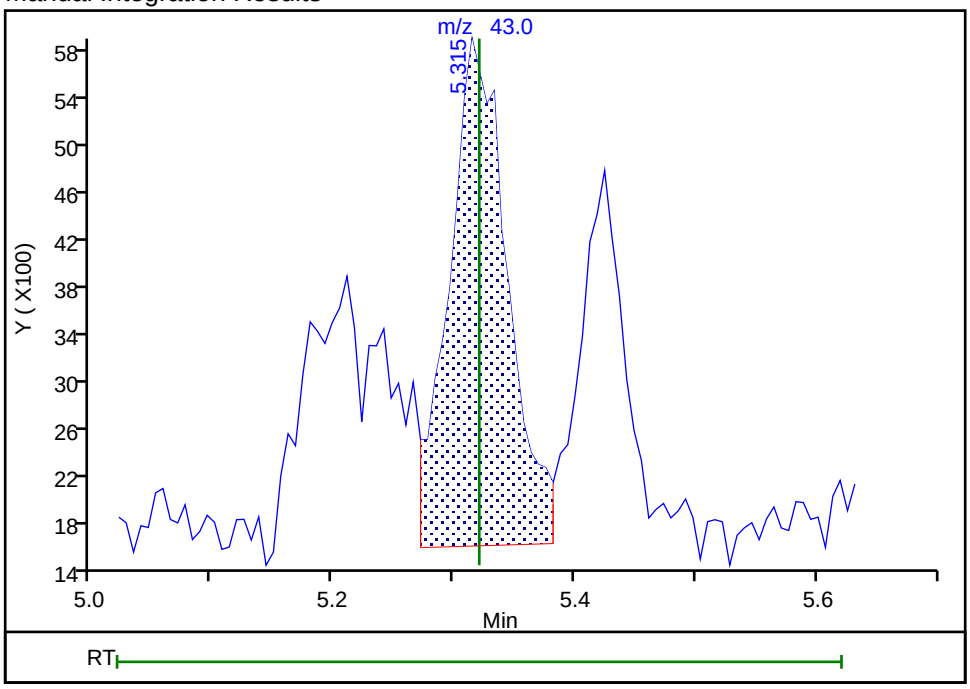
Not Detected
Expected RT: 5.32

Processing Integration Results



Manual Integration Results

RT: 5.31
Area: 14309
Amount: 1.051694
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:35:54
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

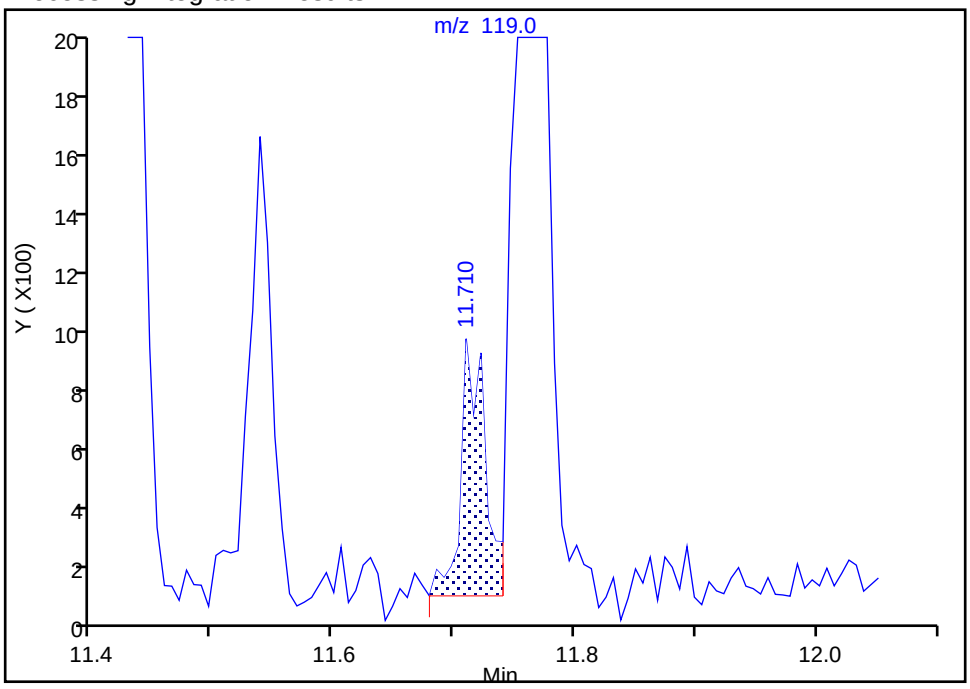
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84641.D
Injection Date: 07-Jun-2018 01:00:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

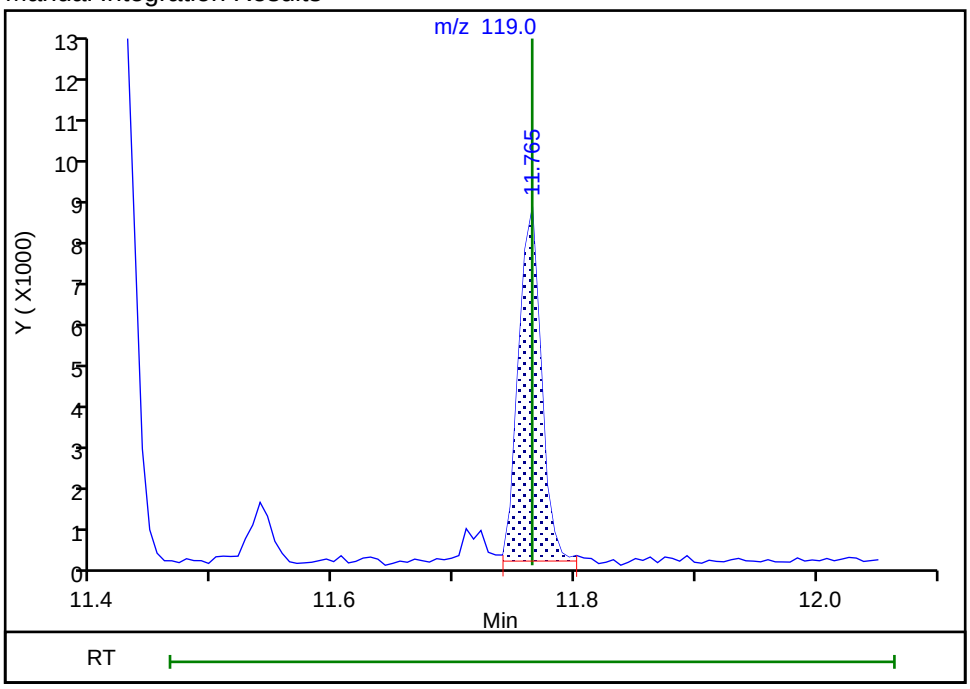
Processing Integration Results

RT: 11.71
Area: 1147
Amount: 0.178531
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 11304
Amount: 0.960928
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:36:16
Audit Action: Assigned Compound ID Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 07-Jun-2018 01:25:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0073325-004
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:03:19 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: boykink Date: 07-Jun-2018 03:07:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.596	0.006	89	12306	5.00	4.43	
2 Dichlorodifluoromethane	85	1.626	1.632	-0.006	99	28942	5.00	4.65	
3 Chloromethane	50	1.803	1.809	-0.006	99	30988	5.00	5.19	
4 Vinyl chloride	62	1.907	1.907	0.000	97	29612	5.00	5.20	
5 Butadiene	54	1.901	1.913	-0.012	78	22547	5.00	4.80	
6 Bromomethane	94	2.212	2.212	0.000	99	21886	5.00	5.58	
7 Chloroethane	64	2.273	2.273	0.000	99	15826	5.00	5.73	
9 Dichlorofluoromethane	67	2.456	2.462	-0.006	97	47010	5.00	5.41	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	63	33016	5.00	4.93	
10 Pentane	72	2.486	2.492	-0.006	96	6790	10.0	10.6	
12 Ethanol	46	2.693	2.693	0.000	77	5733	200.0	202.7	
11 Ethyl ether	59	2.687	2.693	-0.006	93	17220	5.00	5.35	
13 2-Methyl-1,3-butadiene	53	2.718	2.711	0.007	95	18011	5.00	5.12	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.736	0.000	78	17785	5.00	4.70	
15 Acrolein	56	2.870	2.870	0.000	95	158991	200.0	219.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.901	2.894	0.007	40	22142	5.00	4.97	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	98	19851	5.00	5.00	
18 Acetone	43	2.998	2.998	0.000	87	32401	25.0	26.7	
19 Iodomethane	142	3.071	3.071	0.000	98	40562	5.00	5.24	
22 Isopropyl alcohol	45	3.090	3.077	0.013	33	21785	50.0	51.4	a
20 Carbon disulfide	76	3.114	3.108	0.006	99	80519	5.00	5.16	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	94	13727	5.00	5.10	
23 Methyl acetate	43	3.242	3.242	0.000	93	29227	10.0	9.62	
24 Cyclopentene	67	3.260	3.260	0.000	93	52367	5.00	5.15	
29 Acetonitrile	41	3.309	3.309	0.000	21	38928	50.0	50.8	a
* 25 TBA-d9 (IS)	65	3.346	3.358	-0.012	0	450175	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	96	25514	5.00	5.21	
27 2-Methyl-2-propanol	59	3.431	3.425	0.006	91	34833	50.0	52.7	
28 Methyl tert-butyl ether	73	3.516	3.522	-0.006	97	63821	5.00	5.20	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	95	23758	5.00	5.24	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.626	0.006	94	81005	50.0	53.3	
32 Hexane	43	3.711	3.711	0.000	93	22611	5.00	5.10	
33 Isopropyl ether	45	3.919	3.919	0.000	92	79202	5.00	5.39	
34 1,1-Dichloroethane	63	3.961	3.967	-0.006	71	41137	5.00	5.22	
35 Vinyl acetate	86	3.967	3.967	0.000	100	8095	10.0	10.4	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	91	20165	5.00	5.27	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	88	71025	5.00	5.37	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	341224	250.0	250.0	
39 2,2-Dichloropropane	79	4.467	4.467	0.000	56	11905	5.00	5.17	
40 cis-1,2-Dichloroethene	96	4.492	4.498	-0.006	68	27300	5.00	5.39	
42 2-Butanone (MEK)	72	4.498	4.498	0.000	95	12286	25.0	25.3	
41 Ethyl acetate	70	4.504	4.498	0.006	86	5711	10.0	11.7	M
44 Methyl acrylate	55	4.559	4.553	0.006	98	16498	5.00	4.95	
43 Propionitrile	54	4.644	4.638	0.006	98	31713	50.0	51.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	64	6128	10.0	10.8	
46 Chlorobromomethane	128	4.729	4.729	0.000	93	12806	5.00	5.30	
47 Methacrylonitrile	67	4.742	4.742	0.000	93	85753	50.0	53.7	
48 Chloroform	83	4.778	4.772	0.006	98	40722	5.00	5.32	
49 Cyclohexane	84	4.918	4.918	0.000	91	34050	5.00	5.02	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	93	35271	5.00	5.15	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	203385	50.0	51.9	
52 Carbon tetrachloride	117	5.053	5.052	0.001	98	31033	5.00	5.08	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	96	29538	5.00	4.98	
56 Isobutyl alcohol	74	5.199	5.193	0.006	91	3315	125.0	118.8	
54 Benzene	78	5.278	5.278	0.000	96	90720	5.00	5.25	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	196424	50.0	49.4	
57 Isopropyl acetate	43	5.315	5.321	-0.006	97	73600	5.00	5.44	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	94	21135	5.00	5.44	
59 1,2-Dichloroethane	62	5.370	5.369	0.001	96	27384	5.00	5.16	
60 n-Heptane	57	5.424	5.424	0.000	94	20712	5.00	4.97	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	99	574069	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	91	19993	125.0	117.2	
63 Trichloroethene	95	5.924	5.930	-0.006	97	21439	5.00	4.86	
65 Methylcyclohexane	83	6.052	6.058	-0.006	90	40219	5.00	4.81	
64 Ethyl acrylate	56	6.052	6.058	-0.006	90	14225	5.00	5.00	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	94	23127	5.00	5.19	
68 Methyl methacrylate	69	6.278	6.278	0.000	89	27257	10.0	10.6	
* 67 1,4-Dioxane-d8	96	6.266	6.278	-0.012	0	31681	1000.0	1000.0	
69 1,4-Dioxane	88	6.321	6.327	-0.006	32	5356	100.0	113.1	a
70 n-Propyl acetate	43	6.327	6.327	0.000	98	31632	5.00	5.29	
71 Dibromomethane	93	6.357	6.357	0.000	96	13612	5.00	5.05	
72 Dichlorobromomethane	83	6.504	6.503	0.001	99	29824	5.00	5.27	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	71	11903	5.00	5.12	
74 2-Nitropropane	41	6.827	6.833	-0.006	78	12104	10.0	11.1	
75 Epichlorohydrin	57	6.942	6.942	0.000	99	41305	100.0	98.6	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	33141	5.00	5.00	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	97	112325	25.0	26.4	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	719619	50.0	50.5	
79 Toluene	91	7.333	7.333	0.000	92	90187	5.00	5.09	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	29773	5.00	5.14	
81 Ethyl methacrylate	69	7.692	7.692	0.000	91	25863	5.00	4.84	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	96	15508	5.00	5.20	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	21943	5.00	5.16	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	97	28379	5.00	5.02	
85 2-Hexanone	43	8.156	8.156	0.000	96	67651	25.0	25.4	
86 n-Butyl acetate	43	8.265	8.271	-0.006	99	32337	5.00	5.21	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	20881	5.00	4.95	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	17831	5.00	5.01	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	459500	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	95	56113	5.00	5.04	
92 Ethylbenzene	106	9.180	9.186	-0.006	98	30998	5.00	4.93	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	94	23065	5.00	5.04	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	38689	5.00	5.02	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	17231	5.00	5.41	
95 o-Xylene	106	9.802	9.802	0.000	93	39485	5.00	4.94	
96 Styrene	104	9.832	9.832	0.000	97	64172	5.00	5.06	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	90	40363	5.00	5.26	
98 Bromoform	173	10.070	10.070	0.000	96	13787	5.00	5.15	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	104602	5.00	4.96	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	91	213470	50.0	50.6	
101 Bromobenzene	156	10.552	10.551	0.001	98	24945	5.00	4.92	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	99	26365	5.00	4.96	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	125893	5.00	4.98	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	7574	5.00	5.54	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.655	-0.006	91	6760	5.00	5.17	
106 2-Chlorotoluene	91	10.728	10.728	0.000	95	86020	5.00	5.04	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	105270	5.00	5.08	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	90296	5.00	4.89	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	97	72569	5.00	4.99	
110 Butyl Methacrylate	87	10.887	10.887	0.000	90	32028	5.00	5.11	
111 tert-Butylbenzene	119	11.088	11.094	-0.006	95	69458	5.00	4.75	
112 1,2,4-Trimethylbenzene	105	11.149	11.155	-0.006	97	93647	5.00	4.93	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	115214	5.00	4.83	
114 4-Isopropyltoluene	119	11.423	11.429	-0.006	98	101370	5.00	4.89	
115 1,3-Dichlorobenzene	146	11.436	11.441	-0.005	96	49828	5.00	5.05	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	95	264030	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	95	50972	5.00	5.14	
118 Benzyl chloride	91	11.655	11.655	0.000	99	58058	5.00	5.32	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	93	95788	5.00	5.09	
120 p-Diethylbenzene	119	11.765	11.765	0.000	94	59312	5.00	5.12	
121 n-Butylbenzene	92	11.783	11.789	-0.006	98	55978	5.00	4.99	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	95	49558	5.00	4.95	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	104399	5.00	5.05	
124 1,2-Dibromo-3-Chloropropan	75	12.521	12.514	0.007	96	5694	5.00	5.14	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	96	42805	5.00	4.97	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	42211	5.00	5.11	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	19113	5.00	4.76	
128 Naphthalene	128	13.319	13.319	0.000	99	99352	5.00	5.08	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	39632	5.00	4.95	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.6	
S 131 Xylenes, Total	100				0		10.0	9.95	
S 132 Total BTEX	1				0		25.0	25.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00263	Amount Added:	0.50	Units: uL	
ACROLEIN W_00077	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	0.50	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

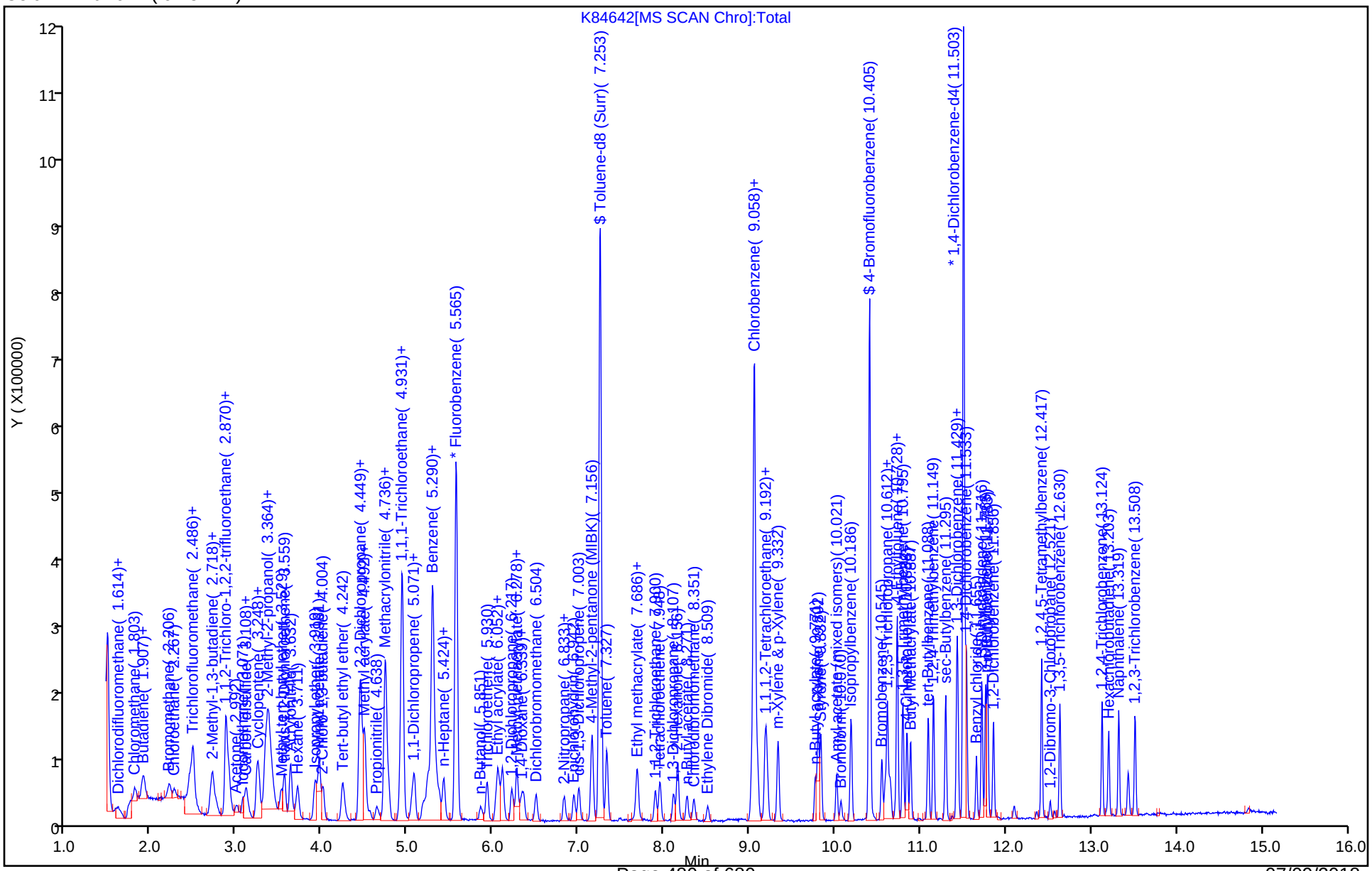
Report Date: 07-Jun-2018 15:03:21 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D

Injection Date:	07-Jun-2018 01:25:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

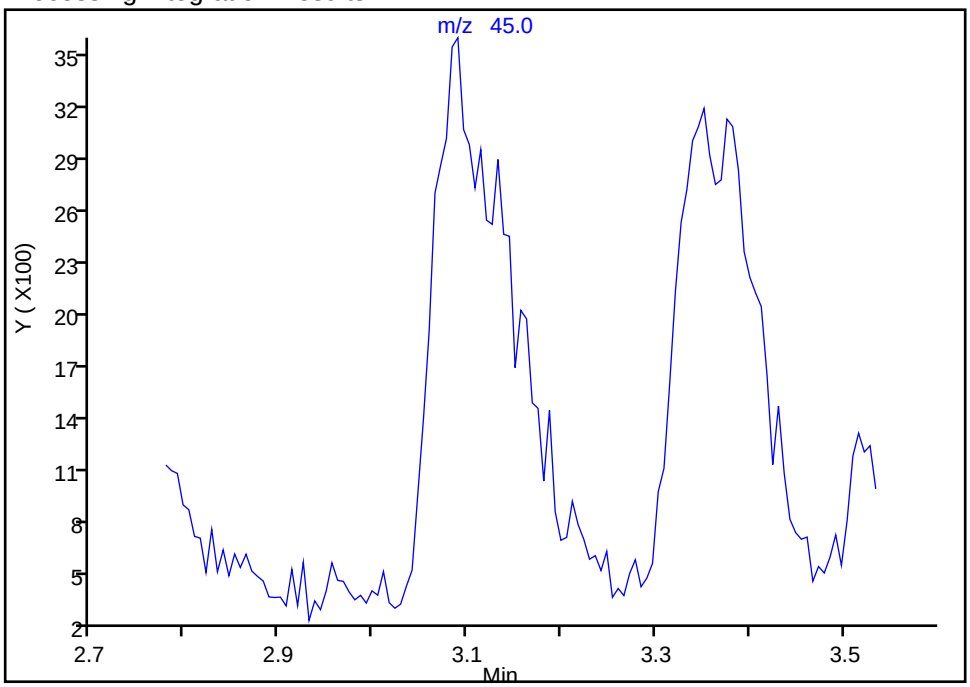
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D
Injection Date: 07-Jun-2018 01:25:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

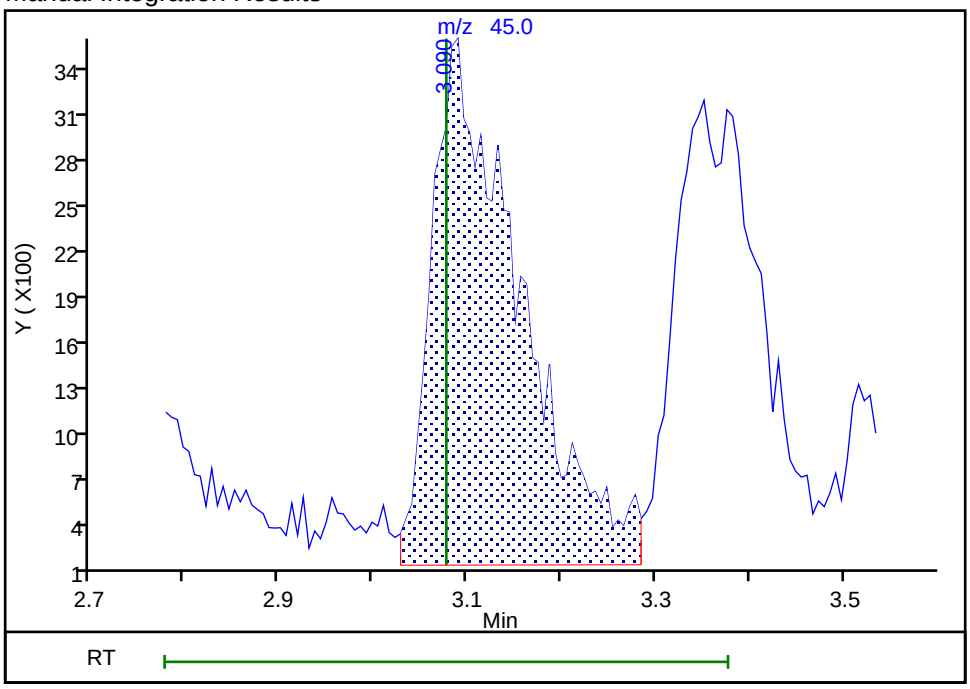
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 21785
Amount: 51.415080
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:37:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

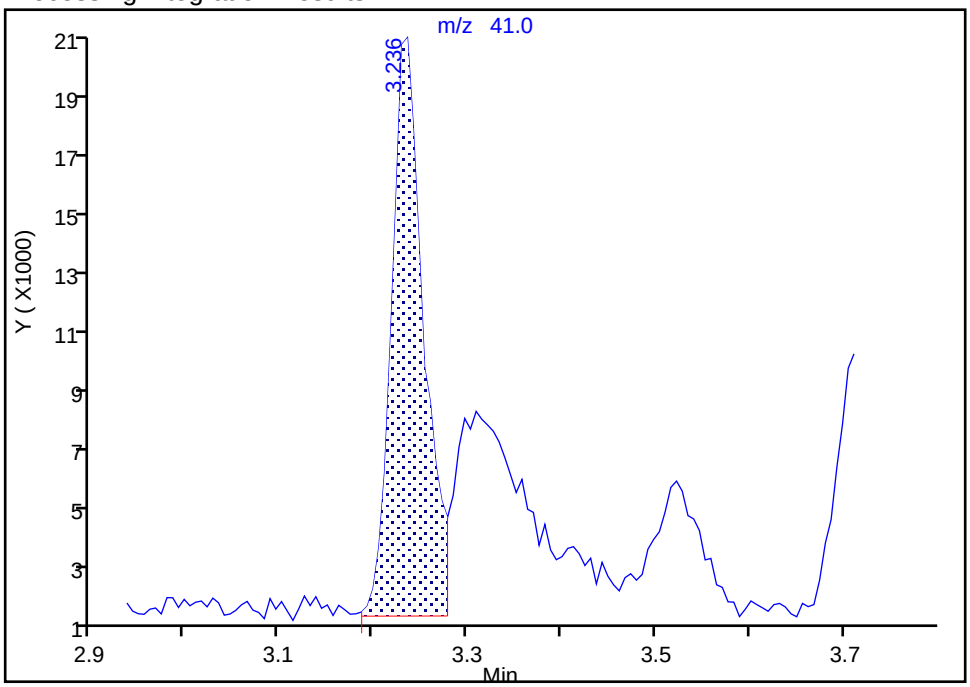
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D
Injection Date: 07-Jun-2018 01:25:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

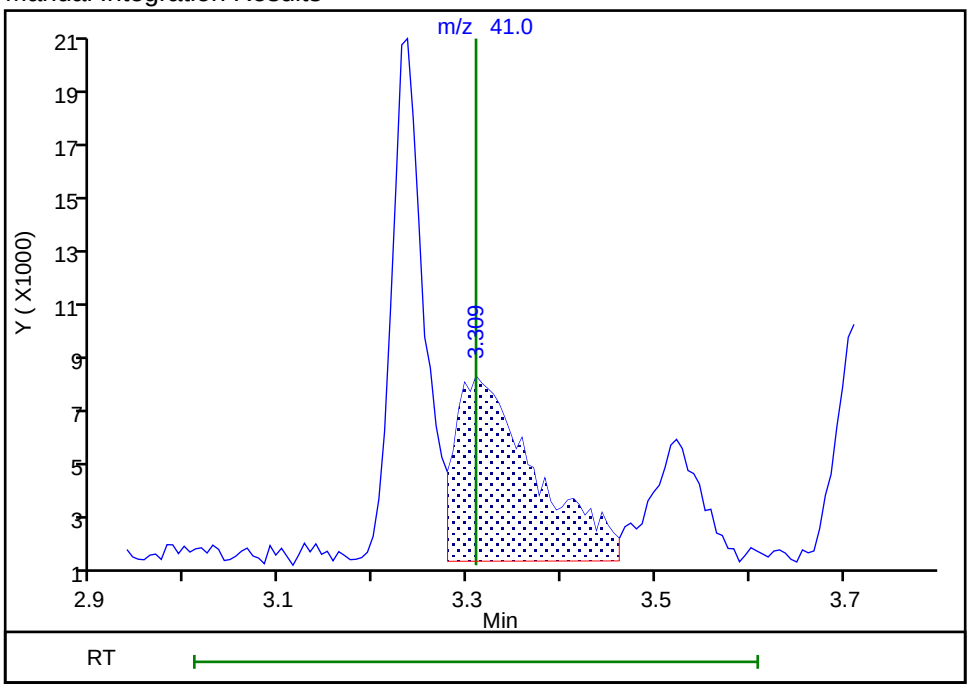
Processing Integration Results

RT: 3.24
Area: 44359
Amount: 52.389371
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 38928
Amount: 50.833823
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:37:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

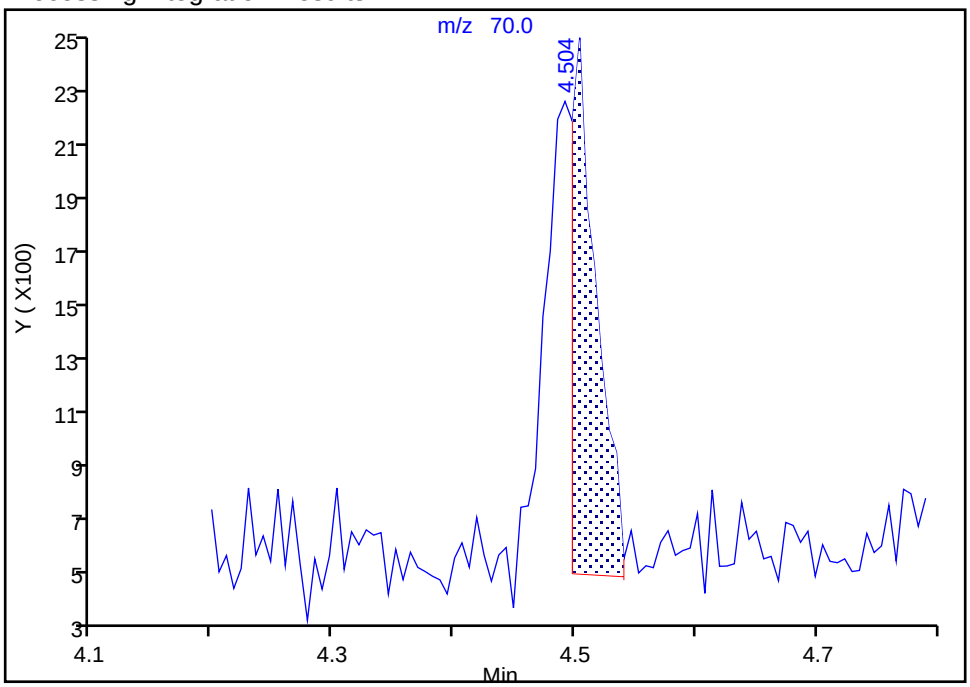
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D
Injection Date: 07-Jun-2018 01:25:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

41 Ethyl acetate, CAS: 141-78-6

Signal: 1

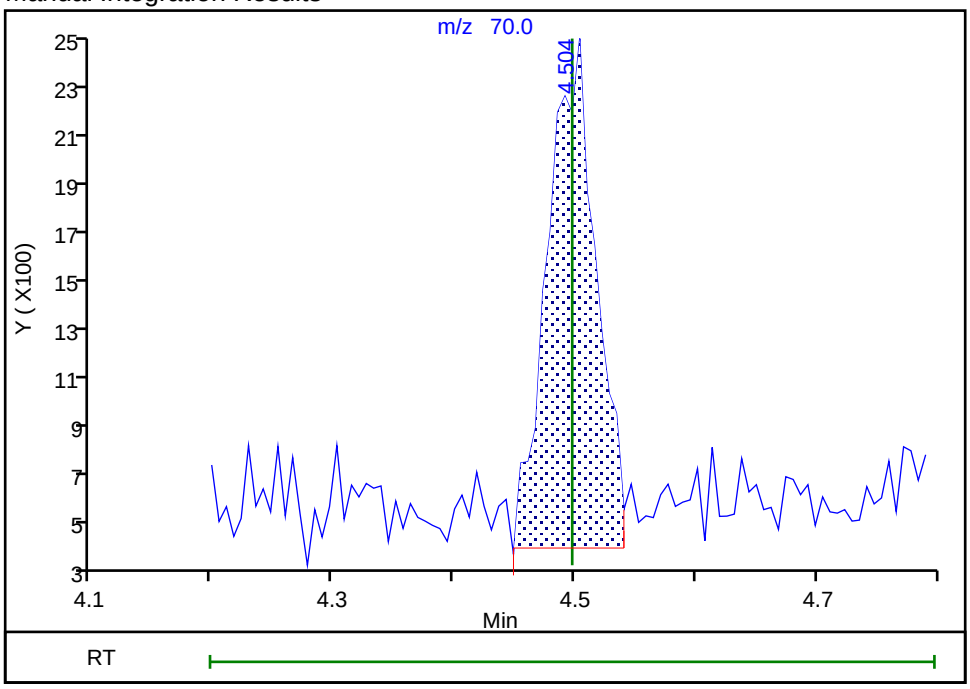
Processing Integration Results

RT: 4.50
Area: 2871
Amount: 7.379753
Amount Units: ug/l



Manual Integration Results

RT: 4.50
Area: 5711
Amount: 11.706150
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:38:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

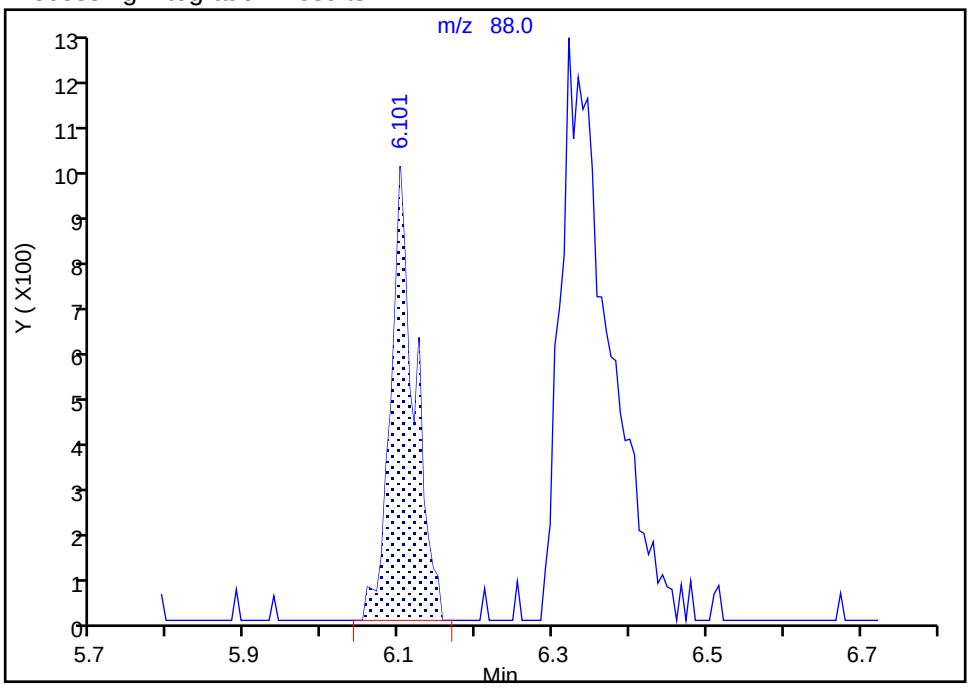
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84642.D
Injection Date: 07-Jun-2018 01:25:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

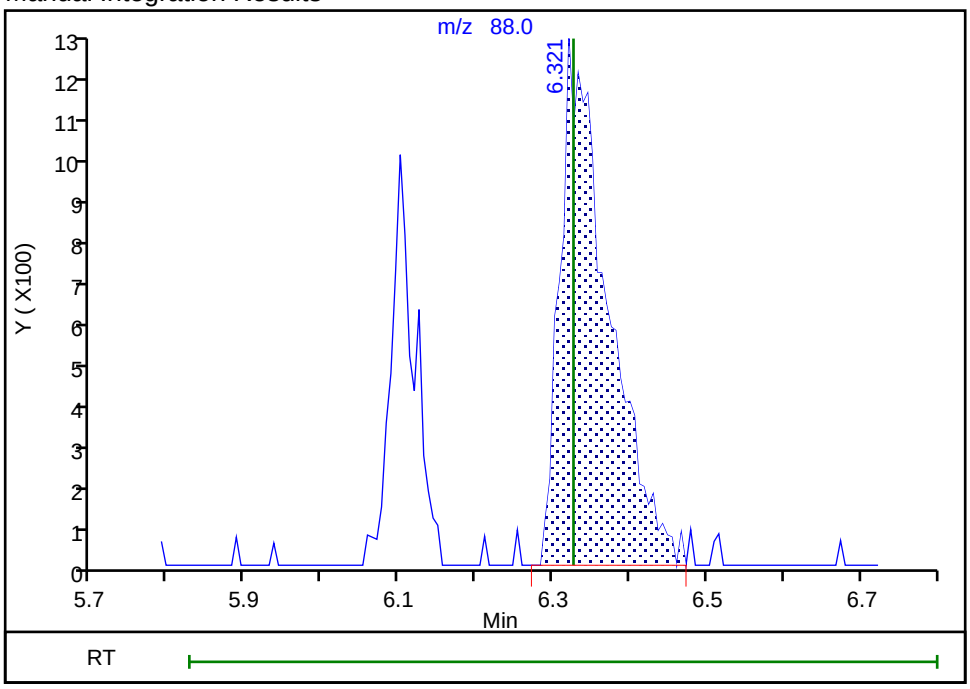
Processing Integration Results

RT: 6.10
Area: 2082
Amount: 40.711631
Amount Units: ug/l



Manual Integration Results

RT: 6.32
Area: 5356
Amount: 113.0520
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:38:25
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84643.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 07-Jun-2018 01:49:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0073325-005
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:03:38 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: boykink Date: 07-Jun-2018 03:09:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.596	0.000	88	55360	20.0	19.6	
2 Dichlorodifluoromethane	85	1.632	1.632	0.000	99	136314	20.0	21.6	
3 Chloromethane	50	1.809	1.809	0.000	99	124755	20.0	20.6	
4 Vinyl chloride	62	1.907	1.907	0.000	98	120134	20.0	20.8	
5 Butadiene	54	1.913	1.913	0.000	86	93840	20.0	19.7	
6 Bromomethane	94	2.212	2.212	0.000	99	82406	20.0	20.7	
7 Chloroethane	64	2.273	2.273	0.000	100	58276	20.0	20.8	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	64	149411	20.0	22.0	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	97	190012	20.0	21.6	
10 Pentane	72	2.492	2.492	0.000	97	27083	40.0	39.9	
11 Ethyl ether	59	2.693	2.693	0.000	93	68857	20.0	21.1	
12 Ethanol	46	2.693	2.693	0.000	71	23683	800.0	790.7	
13 2-Methyl-1,3-butadiene	53	2.711	2.711	0.000	97	76466	20.0	21.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.736	0.000	93	85662	20.0	22.3	
15 Acrolein	56	2.870	2.870	0.000	96	215680	300.0	281.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.894	2.894	0.000	96	99421	20.0	22.0	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	98	82952	20.0	20.6	
18 Acetone	43	2.998	2.998	0.000	87	134990	100.0	107.7	
19 Iodomethane	142	3.071	3.071	0.000	98	165547	20.0	21.1	
22 Isopropyl alcohol	45	3.077	3.077	0.000	32	86162	200.0	192.0	a
20 Carbon disulfide	76	3.108	3.108	0.000	99	341331	20.0	21.6	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	98	58542	20.0	21.5	
23 Methyl acetate	43	3.242	3.242	0.000	100	126118	40.0	39.2	
24 Cyclopentene	67	3.260	3.260	0.000	93	227011	20.0	22.0	
29 Acetonitrile	41	3.309	3.309	0.000	95	159633	200.0	196.8	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	476769	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	94	99625	20.0	20.1	
27 2-Methyl-2-propanol	59	3.425	3.425	0.000	92	139164	200.0	199.0	
28 Methyl tert-butyl ether	73	3.522	3.522	0.000	96	269362	20.0	21.7	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	95	94962	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.626	0.000	95	332656	200.0	216.0	
32 Hexane	43	3.711	3.711	0.000	94	91466	20.0	20.3	
33 Isopropyl ether	45	3.919	3.919	0.000	96	321316	20.0	21.6	
35 Vinyl acetate	86	3.967	3.967	0.000	100	33319	40.0	40.6	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	68	169839	20.0	21.3	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	91	82511	20.0	21.3	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	88	294955	20.0	22.0	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	352845	250.0	250.0	
39 2,2-Dichloropropane	79	4.467	4.467	0.000	96	48323	20.0	20.7	
41 Ethyl acetate	70	4.498	4.498	0.000	91	17981	40.0	38.0	
42 2-Butanone (MEK)	72	4.498	4.498	0.000	95	50941	100.0	101.3	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	92	107052	20.0	20.8	
44 Methyl acrylate	55	4.553	4.553	0.000	98	73774	20.0	21.8	
43 Propionitrile	54	4.638	4.638	0.000	98	133053	200.0	203.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	66	23962	40.0	41.0	
46 Chlorobromomethane	128	4.729	4.729	0.000	91	51640	20.0	21.1	
47 Methacrylonitrile	67	4.742	4.742	0.000	93	347197	200.0	214.2	
48 Chloroform	83	4.772	4.772	0.000	99	166532	20.0	21.4	
49 Cyclohexane	84	4.918	4.918	0.000	92	147499	20.0	21.4	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	88	147008	20.0	21.2	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	206755	50.0	52.0	
52 Carbon tetrachloride	117	5.052	5.052	0.000	97	130451	20.0	21.0	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	98	126954	20.0	21.1	
56 Isobutyl alcohol	74	5.193	5.193	0.000	93	13486	500.0	456.5	a
54 Benzene	78	5.278	5.278	0.000	96	370927	20.0	20.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.290	5.290	0.000	0	204523	50.0	50.7	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	291966	20.0	21.3	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	93	84590	20.0	21.5	
59 1,2-Dichloroethane	62	5.369	5.369	0.000	96	109610	20.0	20.4	
60 n-Heptane	57	5.424	5.424	0.000	95	86148	20.0	20.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	582112	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	88	84363	500.0	467.1	
63 Trichloroethene	95	5.930	5.930	0.000	98	91382	20.0	20.4	
64 Ethyl acrylate	56	6.058	6.058	0.000	98	62864	20.0	21.8	
65 Methylcyclohexane	83	6.058	6.058	0.000	95	184729	20.0	21.8	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	94	94255	20.0	20.9	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	33401	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	92	111870	40.0	43.0	
70 n-Propyl acetate	43	6.327	6.327	0.000	99	122376	20.0	20.2	
69 1,4-Dioxane	88	6.327	6.327	0.000	86	22420	400.0	448.9	
71 Dibromomethane	93	6.357	6.357	0.000	97	56058	20.0	20.5	
72 Dichlorobromomethane	83	6.503	6.503	0.000	99	122546	20.0	21.4	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	74	49527	20.0	21.0	
74 2-Nitropropane	41	6.833	6.833	0.000	80	41600	40.0	37.7	
75 Epichlorohydrin	57	6.942	6.942	0.000	100	172263	400.0	397.9	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	140064	20.0	20.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	97	459274	100.0	104.4	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	734552	50.0	50.3	
79 Toluene	91	7.333	7.333	0.000	93	376637	20.0	20.7	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	121437	20.0	20.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	92	111982	20.0	20.4	
82 1,1,2-Trichloroethane	83	7.899	7.899	0.000	96	62435	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	98	92208	20.0	21.2	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	117896	20.0	20.3	
85 2-Hexanone	43	8.156	8.156	0.000	97	288613	100.0	104.8	
86 n-Butyl acetate	43	8.271	8.271	0.000	99	136504	20.0	21.5	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	86926	20.0	20.1	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	74678	20.0	20.5	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	470763	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	95	235249	20.0	20.6	
92 Ethylbenzene	106	9.186	9.186	0.000	98	137258	20.0	21.3	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	96	97275	20.0	20.8	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	163037	20.0	20.6	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	69664	20.0	21.3	
95 o-Xylene	106	9.802	9.802	0.000	94	171453	20.0	20.9	
96 Styrene	104	9.832	9.832	0.000	96	274857	20.0	21.2	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	90	166136	20.0	21.1	
98 Bromoform	173	10.070	10.070	0.000	97	56340	20.0	20.5	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	460555	20.0	21.3	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	91	220536	50.0	51.0	
101 Bromobenzene	156	10.551	10.551	0.000	97	106178	20.0	20.4	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	99	112446	20.0	20.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	543641	20.0	21.0	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	29408	20.0	20.9	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	93	27037	20.0	20.1	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	453842	20.0	21.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	361951	20.0	20.7	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	388372	20.0	20.5	
109 4-Chlorotoluene	91	10.844	10.844	0.000	97	308028	20.0	20.7	
110 Butyl Methacrylate	87	10.887	10.887	0.000	90	136817	20.0	21.3	
111 tert-Butylbenzene	119	11.094	11.094	0.000	94	309641	20.0	20.6	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	406711	20.0	20.9	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	512856	20.0	20.9	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	98	446588	20.0	21.0	
115 1,3-Dichlorobenzene	146	11.441	11.441	0.000	97	209884	20.0	20.7	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	94	270944	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	209630	20.0	20.6	
118 Benzyl chloride	91	11.655	11.655	0.000	99	236754	20.0	21.1	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	409819	20.0	21.2	
120 p-Diethylbenzene	119	11.765	11.765	0.000	94	257298	20.0	21.7	
121 n-Butylbenzene	92	11.789	11.789	0.000	97	242087	20.0	21.0	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	215317	20.0	21.0	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	462195	20.0	21.8	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	97	22168	20.0	19.5	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	191087	20.0	21.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	176186	20.0	20.8	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	85185	20.0	20.7	
128 Naphthalene	128	13.319	13.319	0.000	99	420289	20.0	20.9	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	97	171093	20.0	20.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.5	
S 131 Xylenes, Total	100				0		40.0	41.6	
S 132 Total BTEX	1				0		100.0	104.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	3.00	Units: uL	
GASES Li_00263	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 07-Jun-2018 15:03:41 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84643.D

Injection Date: 07-Jun-2018 01:49:30 Instrument ID: CVOAMS9 Operator ID:

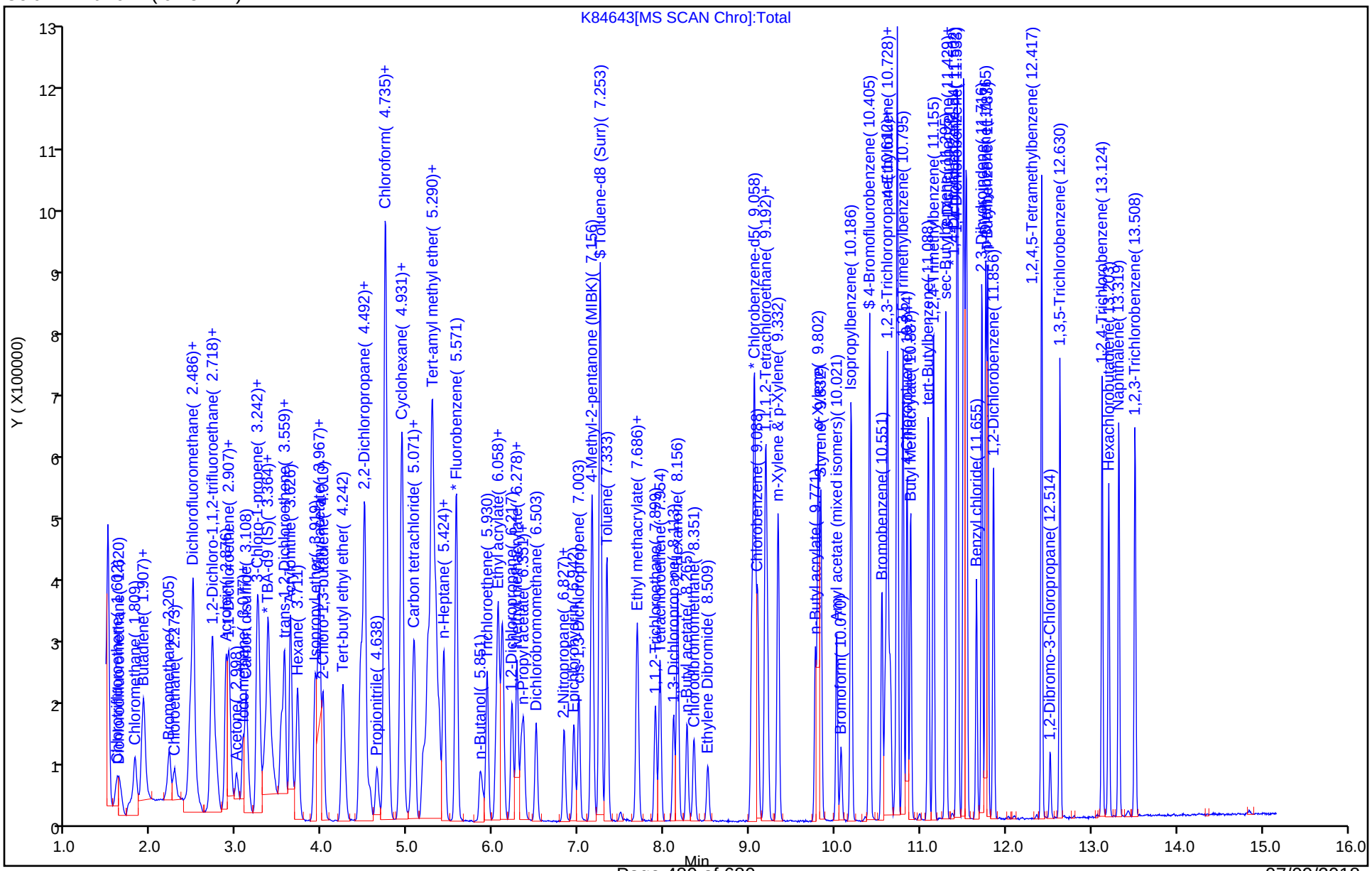
Lims ID: STD20 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

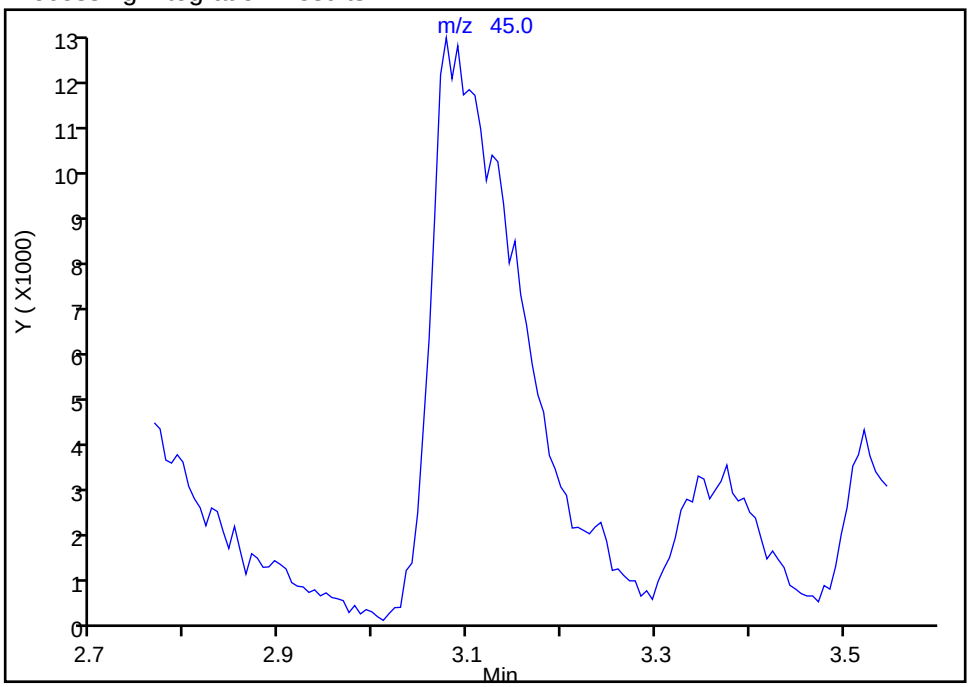
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84643.D
Injection Date: 07-Jun-2018 01:49:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

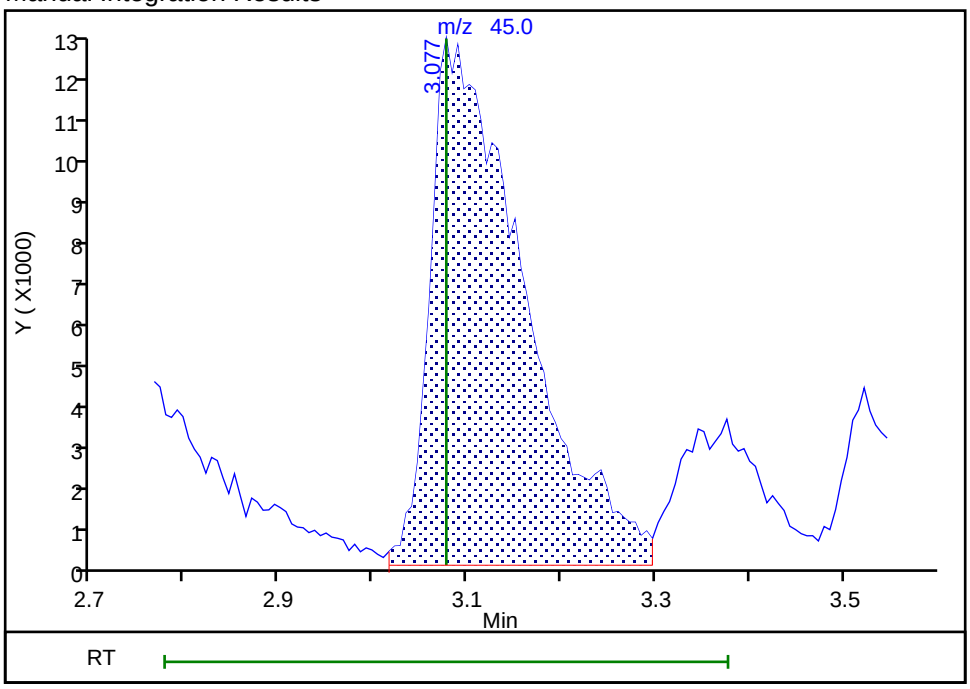
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 86162
Amount: 192.0092
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:24:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

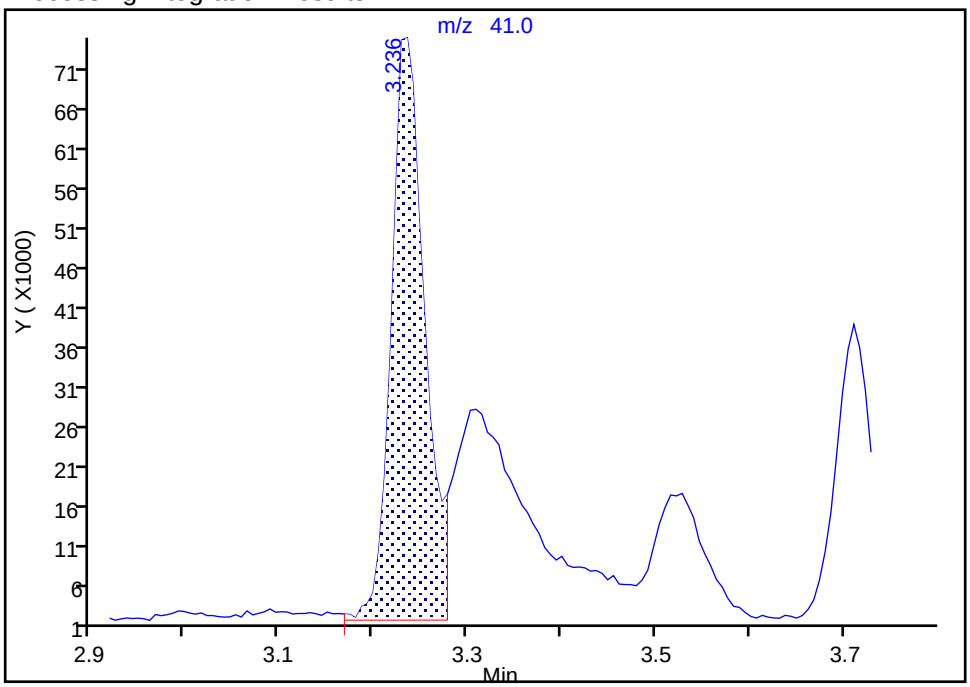
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84643.D
Injection Date: 07-Jun-2018 01:49:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

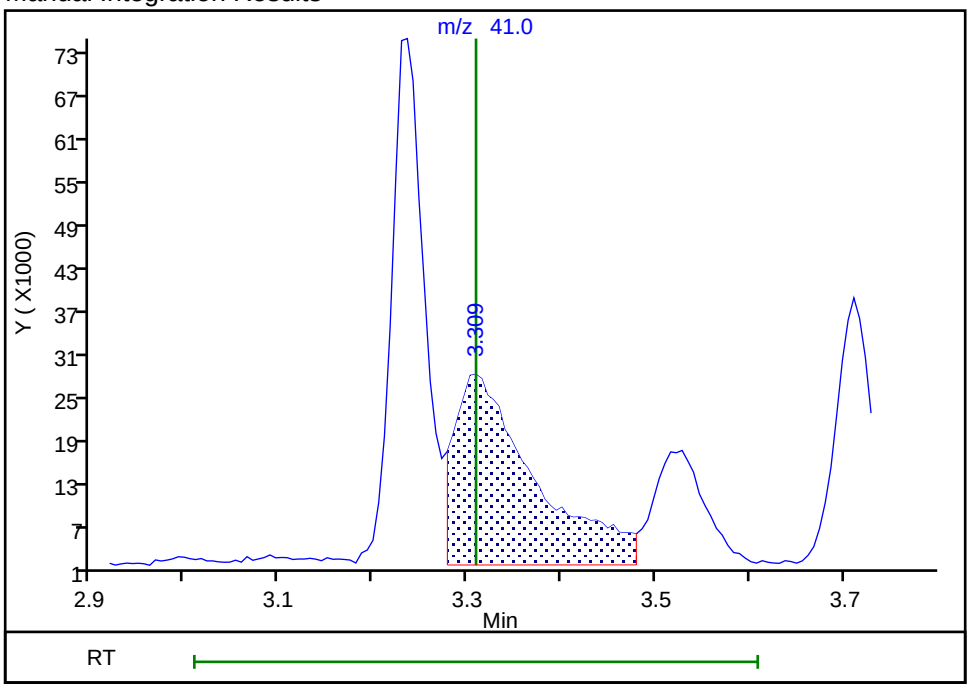
Processing Integration Results

RT: 3.24
Area: 183548
Amount: 228.2069
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 159633
Amount: 196.8279
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:24:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

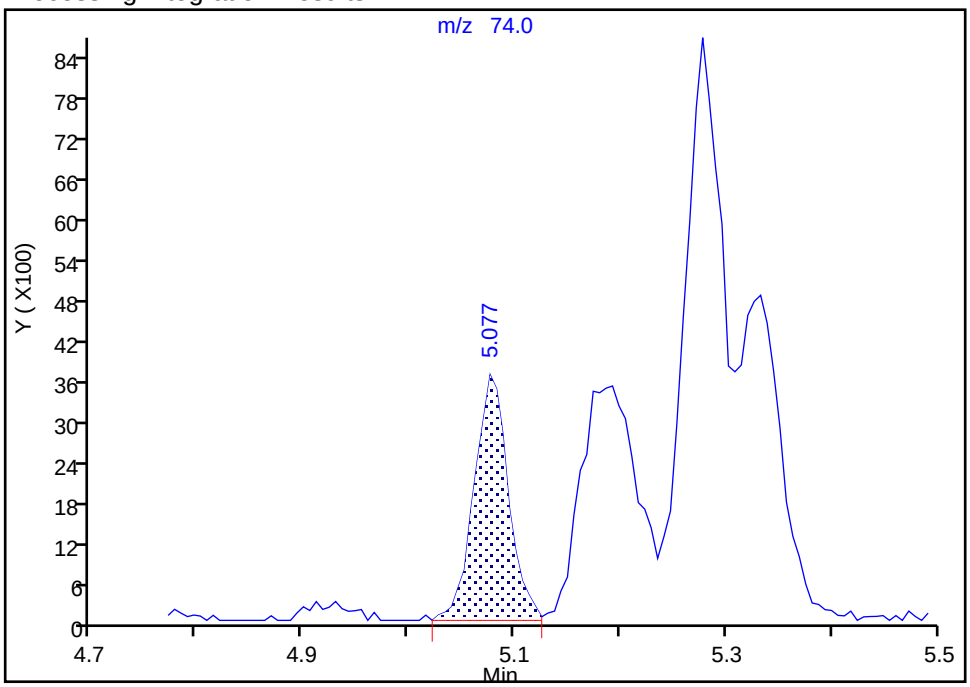
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84643.D
Injection Date: 07-Jun-2018 01:49:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

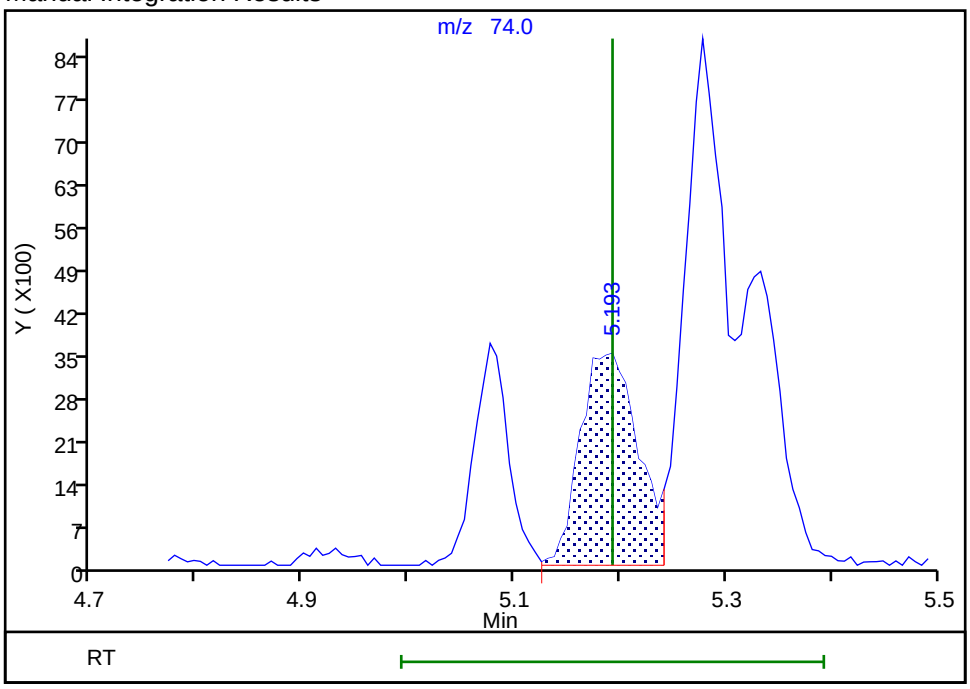
Processing Integration Results

RT: 5.08
Area: 8188
Amount: 304.7497
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 13486
Amount: 456.5044
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:24:51
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84644.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 07-Jun-2018 02:14:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0073325-006
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:04:00 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: boykink Date: 07-Jun-2018 03:12:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.596	0.006	88	142264	50.0	47.9	
2 Dichlorodifluoromethane	85	1.639	1.632	0.007	99	355155	50.0	53.3	
3 Chloromethane	50	1.821	1.809	0.012	99	314949	50.0	49.3	
4 Vinyl chloride	62	1.913	1.907	0.006	98	310832	50.0	51.0	
5 Butadiene	54	1.919	1.913	0.006	97	255389	50.0	50.9	
6 Bromomethane	94	2.218	2.212	0.006	99	199709	50.0	47.6	
7 Chloroethane	64	2.279	2.273	0.006	100	143626	50.0	48.6	
9 Dichlorofluoromethane	67	2.468	2.462	0.006	98	479254	50.0	51.6	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	98	377461	50.0	52.7	
10 Pentane	72	2.498	2.492	0.006	96	70561	100.0	105.4	
12 Ethanol	46	2.693	2.693	0.000	70	56321	2000.0	1907.2	
11 Ethyl ether	59	2.693	2.693	0.000	93	168066	50.0	48.9	
13 2-Methyl-1,3-butadiene	53	2.718	2.711	0.007	98	193944	50.0	51.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.736	0.012	94	205400	50.0	50.8	
15 Acrolein	56	2.876	2.870	0.006	96	292537	400.0	386.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.901	2.894	0.006	94	245443	50.0	51.5	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	98	214154	50.0	50.4	
18 Acetone	43	3.004	2.998	0.006	87	321468	250.0	251.7	
19 Iodomethane	142	3.077	3.071	0.006	98	410728	50.0	49.6	
22 Isopropyl alcohol	45	3.096	3.077	0.019	98	199008	500.0	449.8	a
20 Carbon disulfide	76	3.114	3.108	0.006	100	840856	50.0	50.4	
21 3-Chloro-1-propene	76	3.242	3.236	0.006	99	143708	50.0	49.9	
23 Methyl acetate	43	3.248	3.242	0.006	99	313211	100.0	98.8	
24 Cyclopentene	67	3.266	3.260	0.006	93	552577	50.0	50.8	
29 Acetonitrile	41	3.315	3.309	0.006	100	384221	500.0	480.5	a
* 25 TBA-d9 (IS)	65	3.388	3.358	0.030	0	470042	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	93	246745	50.0	47.1	
27 2-Methyl-2-propanol	59	3.449	3.425	0.024	98	332574	500.0	482.3	
28 Methyl tert-butyl ether	73	3.528	3.522	0.006	97	646051	50.0	49.3	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	96	232567	50.0	48.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.626	0.006	94	811094	500.0	499.4	
32 Hexane	43	3.711	3.711	0.000	94	225062	50.0	47.5	
33 Isopropyl ether	45	3.925	3.919	0.006	97	779830	50.0	49.6	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	66	415909	50.0	49.4	
35 Vinyl acetate	86	3.973	3.967	0.006	100	79633	100.0	98.4	
36 2-Chloro-1,3-butadiene	88	4.016	4.010	0.006	90	210818	50.0	51.5	
37 Tert-butyl ethyl ether	59	4.248	4.242	0.006	88	714194	50.0	50.5	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	360834	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.467	0.006	95	115433	50.0	46.8	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	96	262836	50.0	48.5	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	96	126073	250.0	245.3	
41 Ethyl acetate	70	4.504	4.498	0.006	93	44693	100.0	94.6	
44 Methyl acrylate	55	4.559	4.553	0.006	100	174311	50.0	48.9	
43 Propionitrile	54	4.644	4.638	0.006	98	328722	500.0	509.5	
45 Tetrahydrofuran	72	4.729	4.723	0.006	65	58891	100.0	98.6	
46 Chlorobromomethane	128	4.729	4.729	0.000	82	124173	50.0	48.1	
47 Methacrylonitrile	67	4.742	4.742	0.000	92	869590	500.0	508.7	
48 Chloroform	83	4.778	4.772	0.006	99	403884	50.0	49.3	
49 Cyclohexane	84	4.918	4.918	0.000	93	366783	50.0	50.5	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	98	368082	50.0	50.2	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	209164	50.0	49.9	
52 Carbon tetrachloride	117	5.059	5.052	0.007	97	331474	50.0	50.7	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	98	318603	50.0	50.2	
56 Isobutyl alcohol	74	5.181	5.193	-0.012	87	34053	1250.0	1169.2	a
54 Benzene	78	5.284	5.278	0.006	97	916241	50.0	50.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	203621	50.0	47.9	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	715907	50.0	49.5	
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	92	206226	50.0	49.7	
59 1,2-Dichloroethane	62	5.376	5.369	0.007	96	267756	50.0	47.2	
60 n-Heptane	57	5.424	5.424	0.000	95	222179	50.0	49.9	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	613997	50.0	50.0	
62 n-Butanol	56	5.857	5.851	0.006	88	212068	1250.0	1191.0	
63 Trichloroethene	95	5.930	5.930	0.000	99	231275	50.0	49.0	
65 Methylcyclohexane	83	6.058	6.058	0.000	92	461144	50.0	51.5	
64 Ethyl acrylate	56	6.058	6.058	0.000	96	152653	50.0	50.1	
66 1,2-Dichloropropane	63	6.223	6.217	0.006	94	231361	50.0	48.6	
68 Methyl methacrylate	69	6.278	6.278	0.000	90	276275	100.0	100.6	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	37251	1000.0	1000.0	
69 1,4-Dioxane	88	6.327	6.327	0.000	30	54300	1000.0	974.8	
70 n-Propyl acetate	43	6.333	6.327	0.006	99	296442	50.0	46.3	
71 Dibromomethane	93	6.357	6.357	0.000	98	139925	50.0	48.5	
72 Dichlorobromomethane	83	6.503	6.503	0.000	99	304285	50.0	50.3	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	72	122092	50.0	49.1	
74 2-Nitropropane	41	6.833	6.833	0.000	79	101027	100.0	86.8	
75 Epichlorohydrin	57	6.949	6.942	0.006	99	432994	1000.0	977.9	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	343796	50.0	49.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	97	1128092	250.0	250.8	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	756376	50.0	50.8	
79 Toluene	91	7.333	7.333	0.000	93	939272	50.0	50.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	298073	50.0	49.2	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	269149	50.0	48.1	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	97	155145	50.0	49.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	96	231720	50.0	52.1	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	291208	50.0	49.2	
85 2-Hexanone	43	8.156	8.156	0.000	96	710895	250.0	252.5	
86 n-Butyl acetate	43	8.265	8.271	-0.006	99	324910	50.0	50.0	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	217101	50.0	49.1	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	187018	50.0	50.2	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	84	480727	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	95	586463	50.0	50.4	
92 Ethylbenzene	106	9.186	9.186	0.000	98	336402	50.0	51.2	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	96	239948	50.0	50.2	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	411322	50.0	51.0	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	164673	50.0	49.4	
95 o-Xylene	106	9.808	9.802	0.006	94	426877	50.0	51.0	
96 Styrene	104	9.832	9.832	0.000	96	672653	50.0	50.7	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	90	392547	50.0	51.3	
98 Bromoform	173	10.070	10.070	0.000	97	139579	50.0	49.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	1145625	50.0	51.9	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	91	222890	50.0	50.5	
101 Bromobenzene	156	10.551	10.551	0.000	97	258144	50.0	51.1	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	99	273006	50.0	51.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	1331383	50.0	52.9	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	69219	50.0	50.8	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	93	65270	50.0	50.0	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	879675	50.0	51.7	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	1098679	50.0	53.1	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	966816	50.0	52.5	
109 4-Chlorotoluene	91	10.844	10.844	0.000	97	742138	50.0	51.2	
110 Butyl Methacrylate	87	10.887	10.887	0.000	90	326598	50.0	52.3	
111 tert-Butylbenzene	119	11.094	11.094	0.000	94	780680	50.0	53.6	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	990983	50.0	52.3	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	1276776	50.0	53.7	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	98	1092793	50.0	52.9	
115 1,3-Dichlorobenzene	146	11.442	11.441	0.001	96	509136	50.0	51.8	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	94	263215	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	95	500674	50.0	50.6	
118 Benzyl chloride	91	11.655	11.655	0.000	99	559441	50.0	51.4	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	95	994222	50.0	53.0	
120 p-Diethylbenzene	119	11.765	11.765	0.000	94	612376	50.0	53.0	
121 n-Butylbenzene	92	11.783	11.789	-0.006	97	590890	50.0	52.8	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	513562	50.0	51.5	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	1095948	50.0	53.2	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	97	53214	50.0	48.2	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	445845	50.0	51.9	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	95	419206	50.0	50.9	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	208412	50.0	52.0	
128 Naphthalene	128	13.319	13.319	0.000	99	1014588	50.0	52.0	
129 1,2,3-Trichlorobenzene	180	13.514	13.508	0.006	96	402625	50.0	50.4	
S 130 1,2-Dichloroethene, Total	100				0		100.0	96.5	
S 131 Xylenes, Total	100				0		100.0	102.0	
S 132 Total BTEX	1				0		250.0	254.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GASES Li_00263	Amount Added:	5.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	5.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

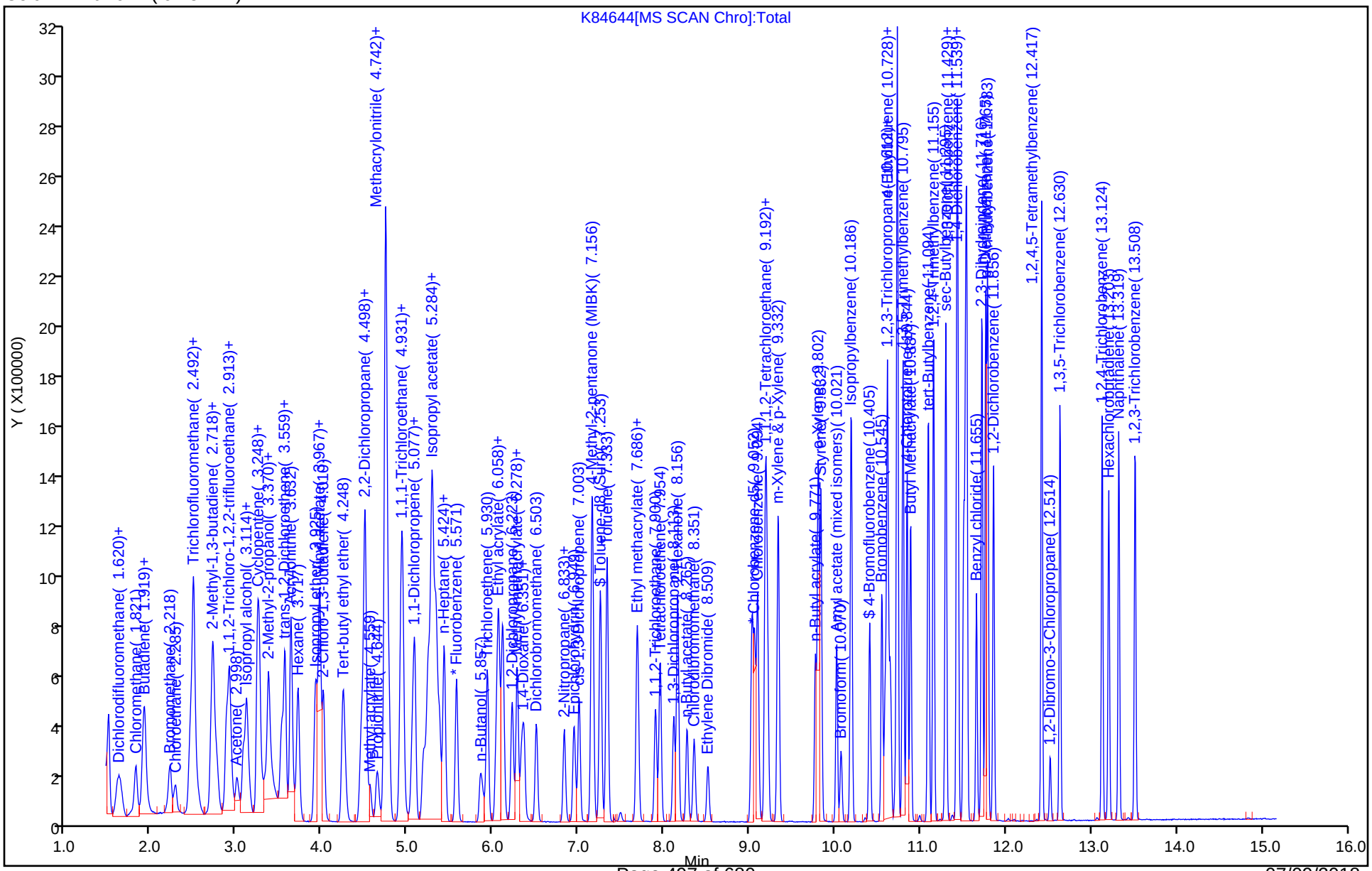
Report Date: 07-Jun-2018 15:04:03 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84644.D

Injection Date:	07-Jun-2018 02:14:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

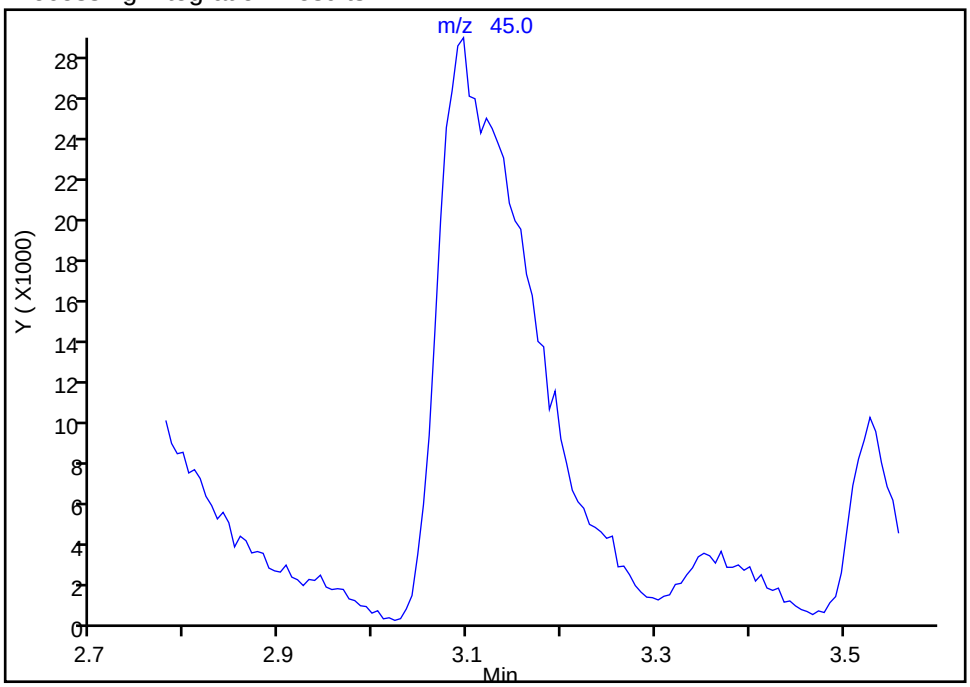
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84644.D
Injection Date: 07-Jun-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

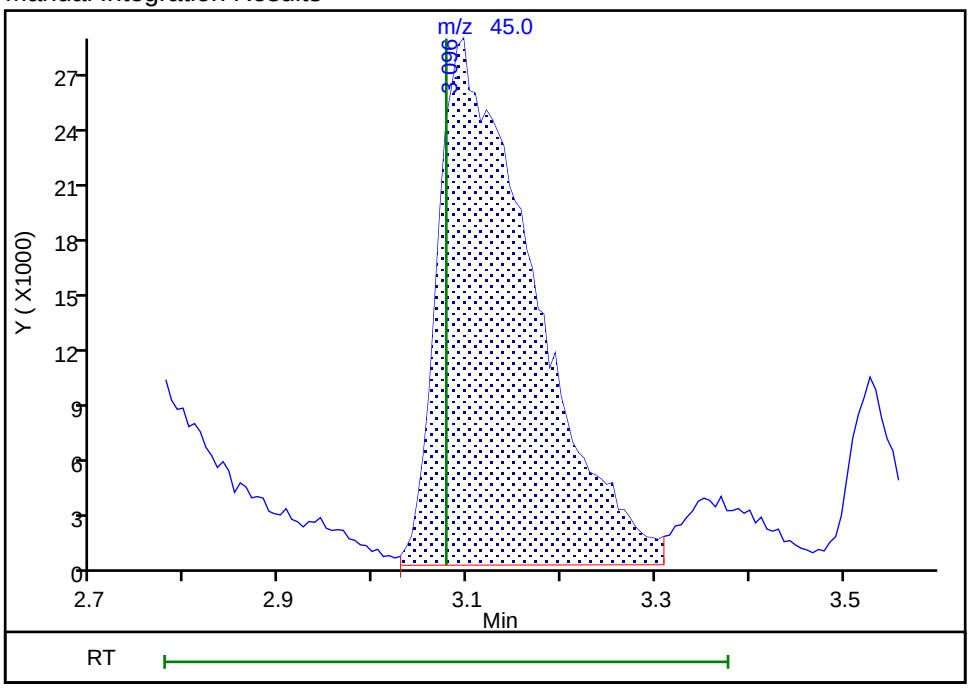
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 199008
Amount: 449.8298
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:39:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

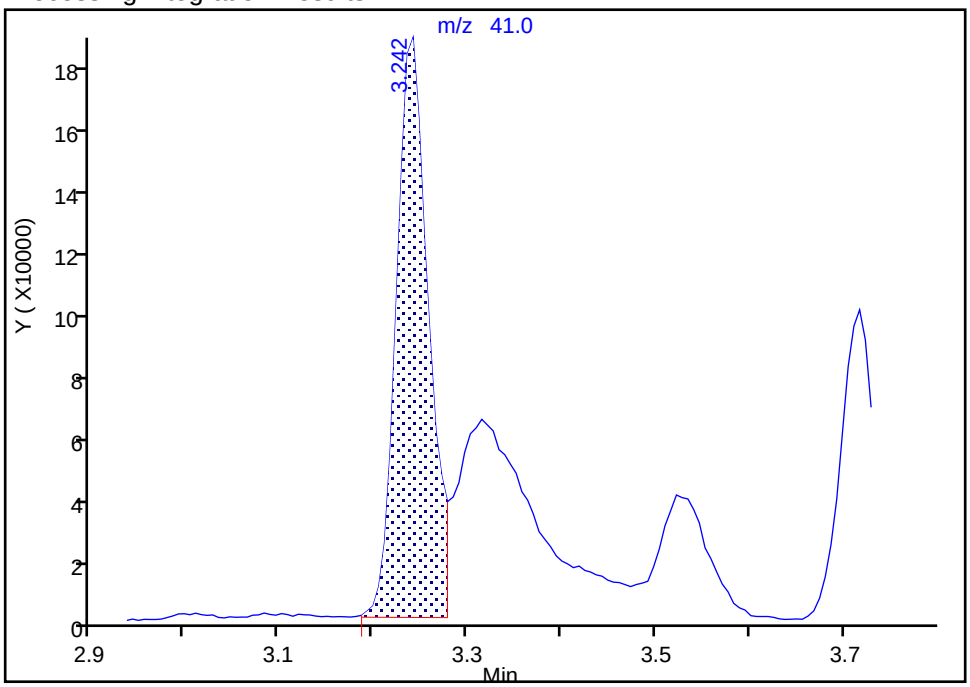
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84644.D
Injection Date: 07-Jun-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

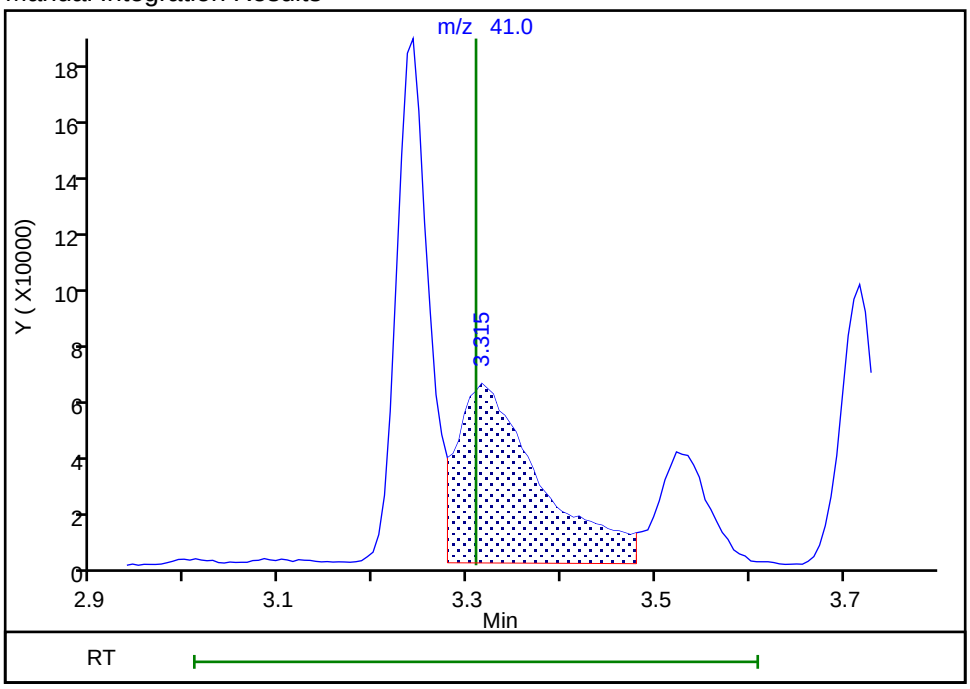
Processing Integration Results

RT: 3.24
Area: 431864
Amount: 499.1595
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 384221
Amount: 480.5255
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:39:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

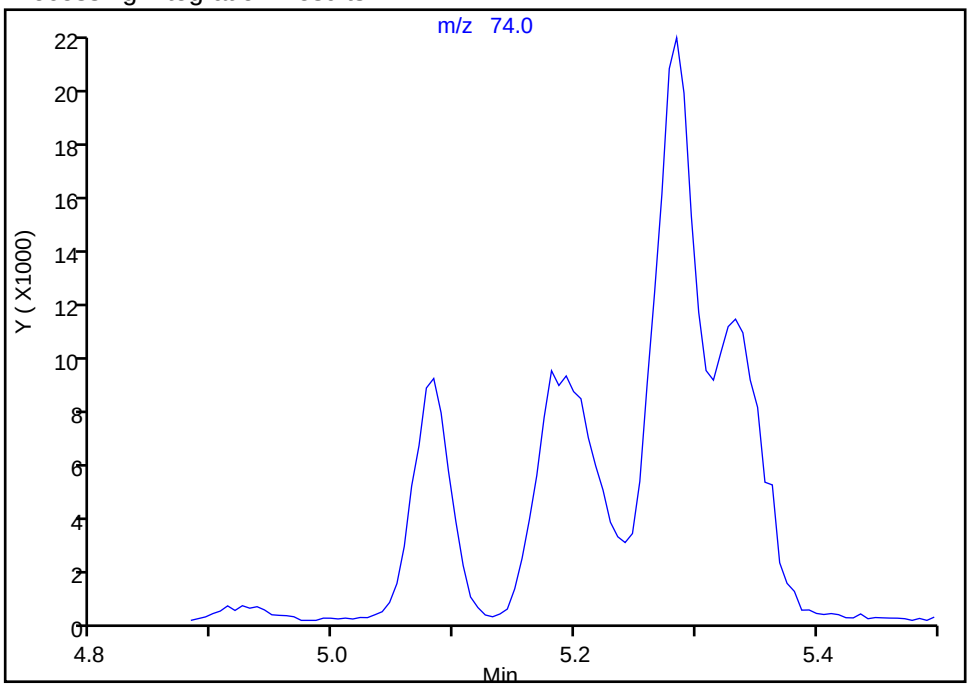
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84644.D
Injection Date: 07-Jun-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

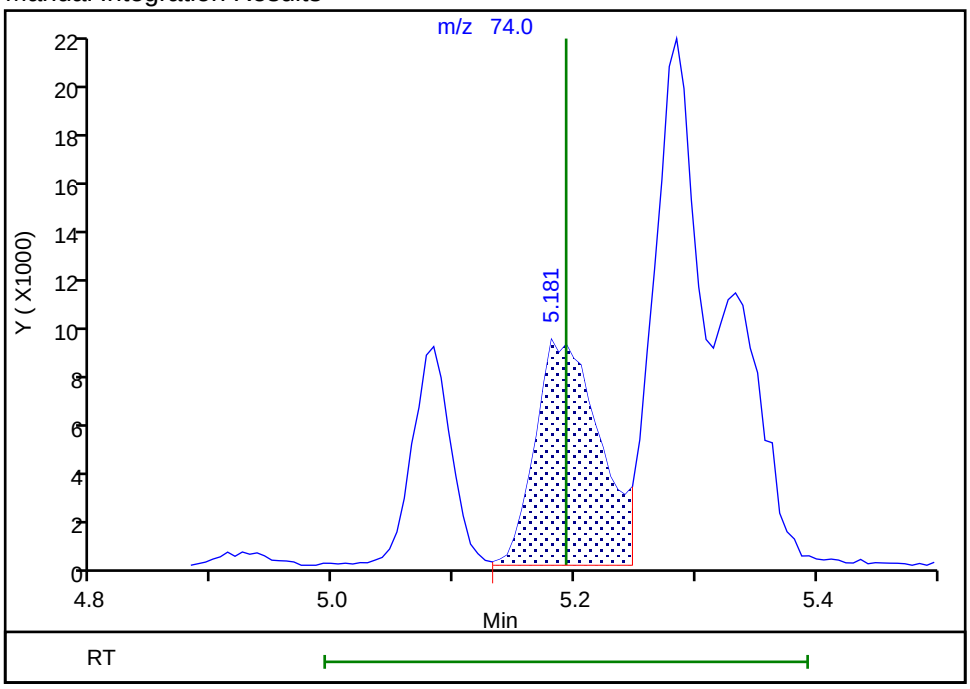
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.18
Area: 34053
Amount: 1169.1993
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:39:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 07-Jun-2018 02:38:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0073325-007
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:04:17 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: boykink Date: 07-Jun-2018 03:16:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.596	0.000	88	635802	200.0	209.3	
2 Dichlorodifluoromethane	85	1.633	1.632	0.001	99	1395420	200.0	204.9	
3 Chloromethane	50	1.815	1.809	0.006	99	1215799	200.0	186.2	
4 Vinyl chloride	62	1.913	1.907	0.006	98	1187114	200.0	190.7	
5 Butadiene	54	1.913	1.913	0.000	96	1057315	200.0	206.0	
6 Bromomethane	94	2.212	2.212	0.000	99	787086	200.0	183.6	
7 Chloroethane	64	2.279	2.273	0.006	100	551698	200.0	182.8	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	97	1366965	200.0	186.8	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	99	1625541	200.0	171.1	
10 Pentane	72	2.492	2.492	0.000	97	232871	400.0	359.7	
11 Ethyl ether	59	2.687	2.693	-0.006	93	669062	200.0	190.3	
12 Ethanol	46	2.687	2.693	-0.006	96	212756	8000.0	7451.4	
13 2-Methyl-1,3-butadiene	53	2.712	2.711	0.001	97	680546	200.0	177.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.736	0.006	93	797552	200.0	192.8	
15 Acrolein	56	2.870	2.870	0.000	96	349119	500.0	477.4	
16 1,1,2-Trichloro-1,2,2-trif	101	2.888	2.894	-0.006	97	962221	200.0	197.7	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	98	818518	200.0	188.6	
18 Acetone	43	2.998	2.998	0.000	87	1264068	1000.0	997.9	
19 Iodomethane	142	3.071	3.071	0.000	98	1598946	200.0	188.9	
22 Isopropyl alcohol	45	3.084	3.077	0.007	99	758591	2000.0	1773.4	a
20 Carbon disulfide	76	3.108	3.108	0.000	99	3257072	200.0	191.0	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	99	537049	200.0	182.6	
23 Methyl acetate	43	3.242	3.242	0.000	99	1190765	400.0	388.3	
24 Cyclopentene	67	3.260	3.260	0.000	94	1930690	200.0	173.7	
29 Acetonitrile	41	3.303	3.309	-0.006	96	1394022	2000.0	1803.2	a
* 25 TBA-d9 (IS)	65	3.352	3.358	-0.006	0	454471	1000.0	1000.0	
26 Methylene Chloride	84	3.364	3.370	-0.006	93	953163	200.0	178.0	
27 2-Methyl-2-propanol	59	3.443	3.425	0.018	98	1280849	2000.0	1921.2	
28 Methyl tert-butyl ether	73	3.522	3.522	0.000	97	2522451	200.0	188.2	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	95	884770	200.0	178.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.626	0.006	94	3126847	2000.0	1883.5	
32 Hexane	43	3.711	3.711	0.000	94	871447	200.0	179.8	
33 Isopropyl ether	45	3.919	3.919	0.000	98	2769853	200.0	172.5	
35 Vinyl acetate	86	3.967	3.967	0.000	100	319341	400.0	408.2	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	99	1583774	200.0	183.9	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	90	728590	200.0	174.1	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	2534579	200.0	175.3	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	363910	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.467	0.006	96	444418	200.0	176.4	
41 Ethyl acetate	70	4.504	4.498	0.006	94	170003	400.0	368.8	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	96	501669	1000.0	967.7	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	96	1016961	200.0	183.7	
44 Methyl acrylate	55	4.559	4.553	0.006	100	682790	200.0	187.4	
43 Propionitrile	54	4.638	4.638	0.000	98	1179204	2000.0	1890.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	92	231163	400.0	383.8	
46 Chlorobromomethane	128	4.730	4.729	0.001	91	487740	200.0	184.7	
47 Methacrylonitrile	67	4.742	4.742	0.000	92	3116747	2000.0	1784.1	
48 Chloroform	83	4.778	4.772	0.006	99	1561928	200.0	186.5	
49 Cyclohexane	84	4.925	4.918	0.007	92	1433327	200.0	193.2	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	98	1417084	200.0	189.2	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	95	203997	50.0	47.6	
52 Carbon tetrachloride	117	5.059	5.052	0.007	98	1267638	200.0	189.7	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	97	1222421	200.0	188.5	
56 Isobutyl alcohol	74	5.193	5.193	0.000	95	133650	5000.0	4746.1	a
54 Benzene	78	5.284	5.278	0.006	95	3583498	200.0	190.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.290	0.006	0	214568	50.0	49.3	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	2637382	200.0	178.3	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	755894	200.0	178.1	
59 1,2-Dichloroethane	62	5.370	5.369	0.001	96	1084942	200.0	187.1	
60 n-Heptane	57	5.425	5.424	0.001	94	888344	200.0	195.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	627540	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	88	796622	5000.0	4627.2	
63 Trichloroethene	95	5.931	5.930	0.001	99	911912	200.0	189.1	
64 Ethyl acrylate	56	6.059	6.058	0.001	98	588408	200.0	189.1	
65 Methylcyclohexane	83	6.059	6.058	0.001	90	1779557	200.0	194.6	
66 1,2-Dichloropropane	63	6.223	6.217	0.006	94	923192	200.0	189.5	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	44677	1000.0	1000.0	M
68 Methyl methacrylate	69	6.278	6.278	0.000	94	1038855	400.0	370.0	
70 n-Propyl acetate	43	6.333	6.327	0.006	98	1129034	200.0	172.6	
69 1,4-Dioxane	88	6.333	6.327	0.006	30	214941	4000.0	3217.2	
71 Dibromomethane	93	6.357	6.357	0.000	98	566619	200.0	192.2	
72 Dichlorobromomethane	83	6.504	6.503	0.001	99	1228996	200.0	198.7	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	89	461358	200.0	181.6	
74 2-Nitropropane	41	6.833	6.833	0.000	82	376718	400.0	316.8	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	1730744	4000.0	3875.8	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	1417660	200.0	196.9	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	96	4406421	1000.0	971.2	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	768270	50.0	49.6	
79 Toluene	91	7.333	7.333	0.000	93	3735089	200.0	193.8	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	1227730	200.0	195.0	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	1095327	200.0	188.4	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	97	641820	200.0	198.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.955	7.954	0.001	97	918163	200.0	198.7	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	90	1198479	200.0	195.0	
85 2-Hexanone	43	8.156	8.156	0.000	96	2764600	1000.0	973.5	
86 n-Butyl acetate	43	8.265	8.271	-0.006	99	1189513	200.0	176.2	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	904161	200.0	197.1	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	763149	200.0	197.4	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	499340	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	95	2372400	200.0	196.2	
92 Ethylbenzene	106	9.186	9.186	0.000	98	1327230	200.0	194.4	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	97	962486	200.0	193.7	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	1630692	200.0	194.7	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	609665	200.0	176.1	
95 o-Xylene	106	9.802	9.802	0.000	94	1705778	200.0	196.2	
96 Styrene	104	9.832	9.832	0.000	96	2701360	200.0	196.2	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	90	1418848	200.0	178.0	
98 Bromoform	173	10.070	10.070	0.000	97	581153	200.0	199.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	96	4510151	200.0	196.7	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	91	225858	50.0	49.2	
101 Bromobenzene	156	10.552	10.551	0.001	97	1048993	200.0	199.4	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	99	1098510	200.0	199.2	
103 N-Propylbenzene	91	10.613	10.612	0.001	99	5181654	200.0	197.4	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	98	282372	200.0	198.7	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	84	261673	200.0	192.6	
107 4-Ethyltoluene	105	10.728	10.728	0.000	88	3911961	200.0	181.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	94	3452779	200.0	194.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	3873020	200.0	201.9	
109 4-Chlorotoluene	91	10.844	10.844	0.000	97	2968885	200.0	196.7	
110 Butyl Methacrylate	87	10.887	10.887	0.000	90	1217189	200.0	187.1	
111 tert-Butylbenzene	119	11.094	11.094	0.000	94	3160400	200.0	208.2	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	3952150	200.0	200.3	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	5034900	200.0	203.1	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	98	4319311	200.0	200.6	
115 1,3-Dichlorobenzene	146	11.436	11.441	-0.005	98	2000912	200.0	195.4	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	94	274240	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	95	2008791	200.0	194.9	
118 Benzyl chloride	91	11.655	11.655	0.000	99	2022703	200.0	178.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	3632759	200.0	185.8	
120 p-Diethylbenzene	119	11.765	11.765	0.000	93	2186672	200.0	181.8	a
121 n-Butylbenzene	92	11.783	11.789	-0.006	98	2289563	200.0	196.3	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	2049330	200.0	197.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	3952484	200.0	184.2	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.514	0.001	97	215501	200.0	187.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	1603081	200.0	179.2	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	1665233	200.0	194.2	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	847013	200.0	202.9	
128 Naphthalene	128	13.319	13.319	0.000	99	3966554	200.0	195.2	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	1626690	200.0	195.5	
S 130 1,2-Dichloroethene, Total	100				0		400.0	362.3	
S 131 Xylenes, Total	100				0		400.0	390.9	
S 132 Total BTEX	1				0		1000.0	969.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	5.00	Units: uL	
GASES Li_00263	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	20.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

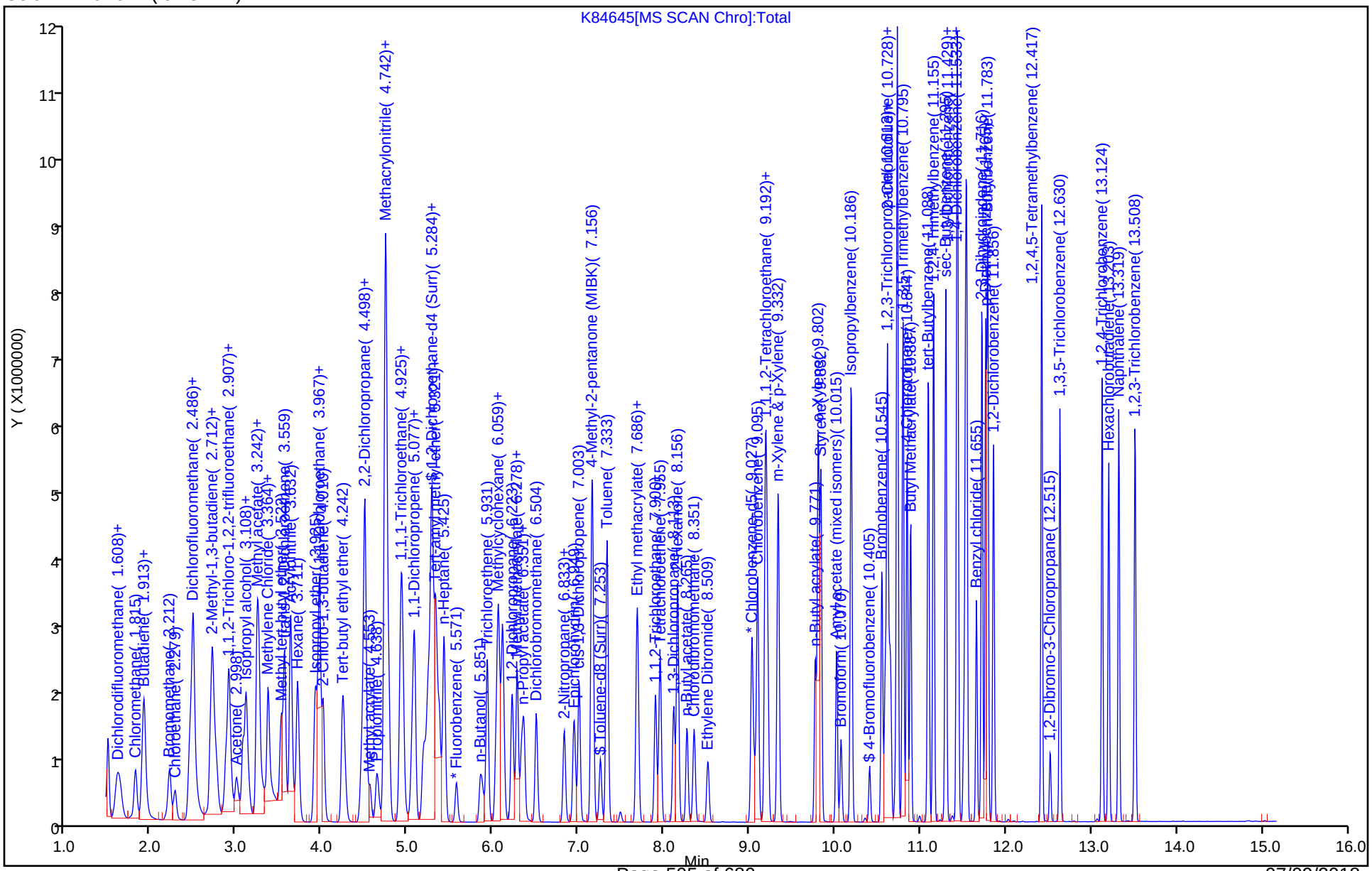
Report Date: 07-Jun-2018 15:04:19 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D

Injection Date:	07-Jun-2018 02:38:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

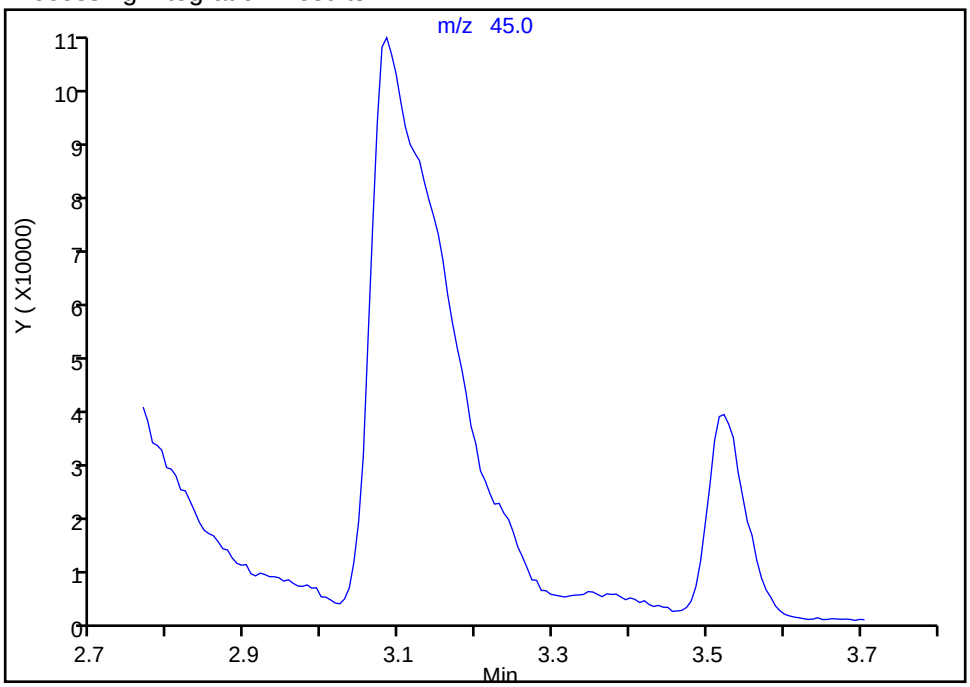
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Injection Date: 07-Jun-2018 02:38:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

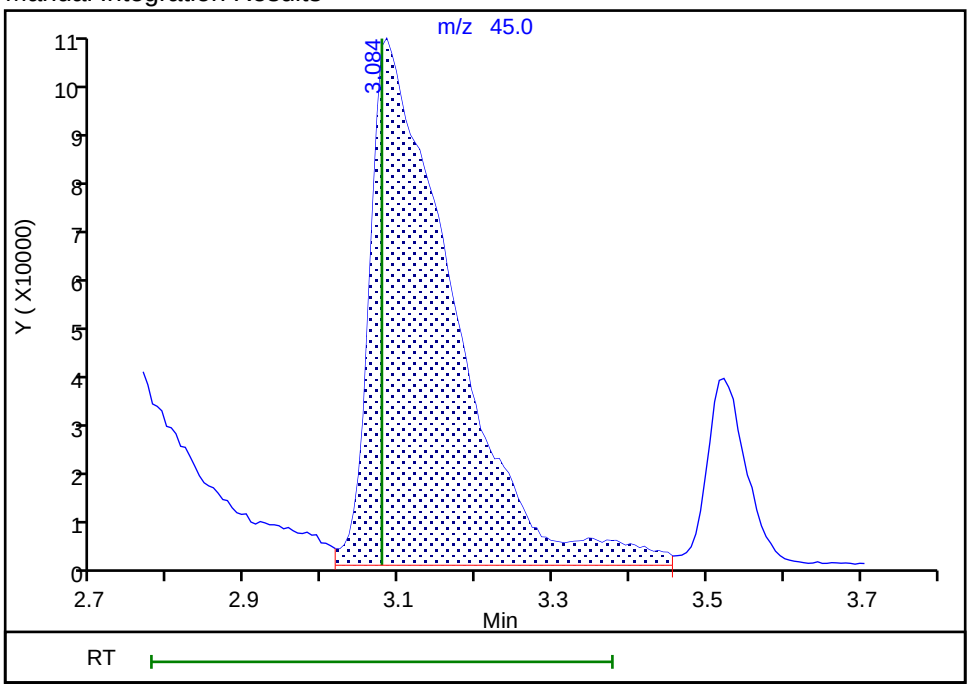
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 758591
Amount: 1773.4373
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:40:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

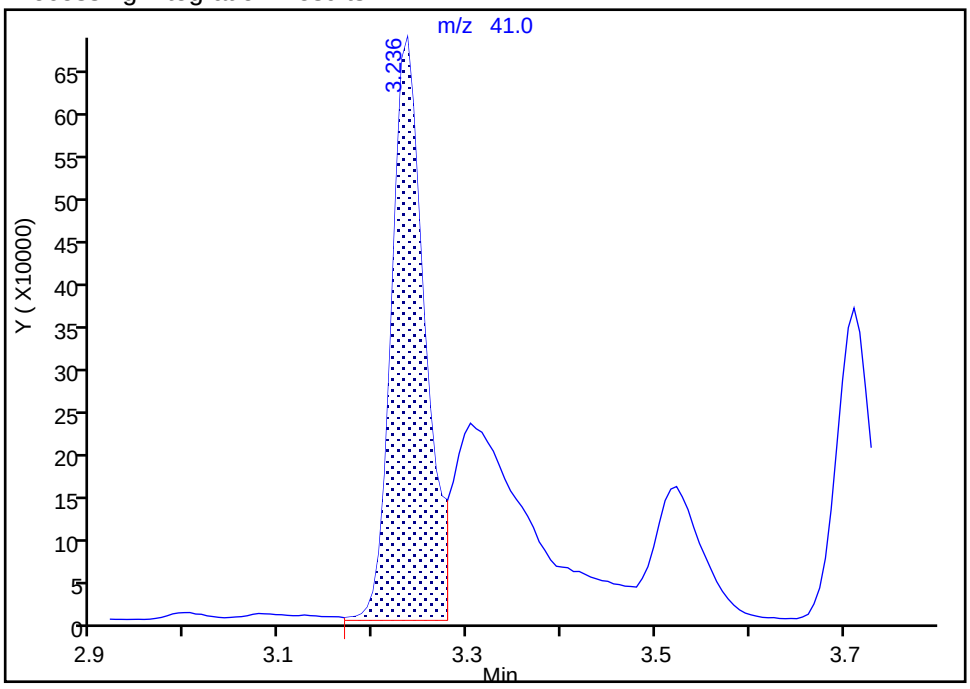
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Injection Date: 07-Jun-2018 02:38:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

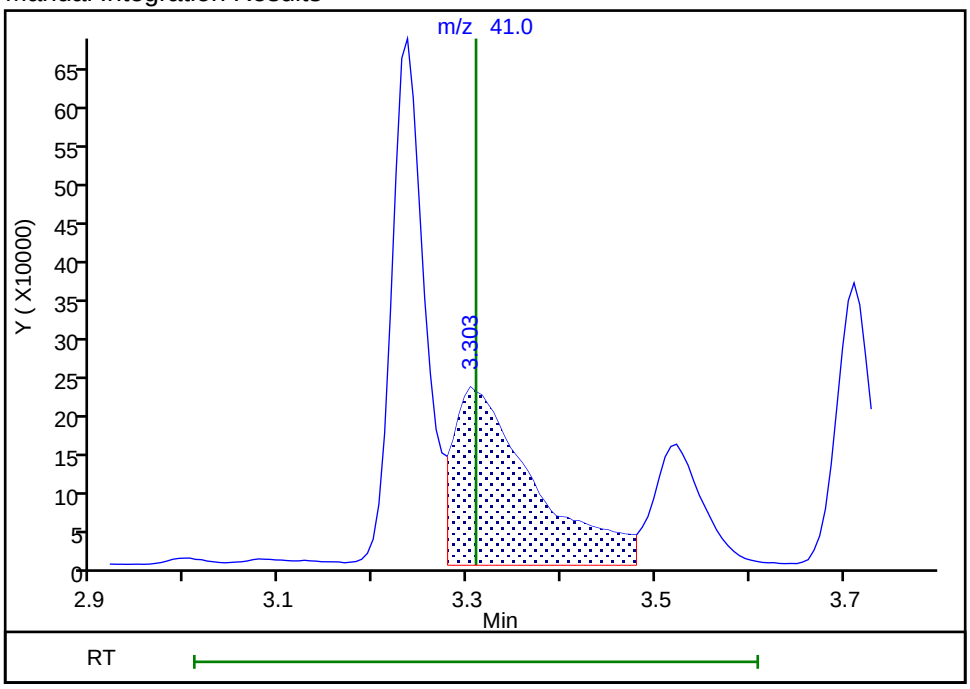
Processing Integration Results

RT: 3.24
Area: 1696027
Amount: 2065.3869
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 1394022
Amount: 1803.1651
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:40:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

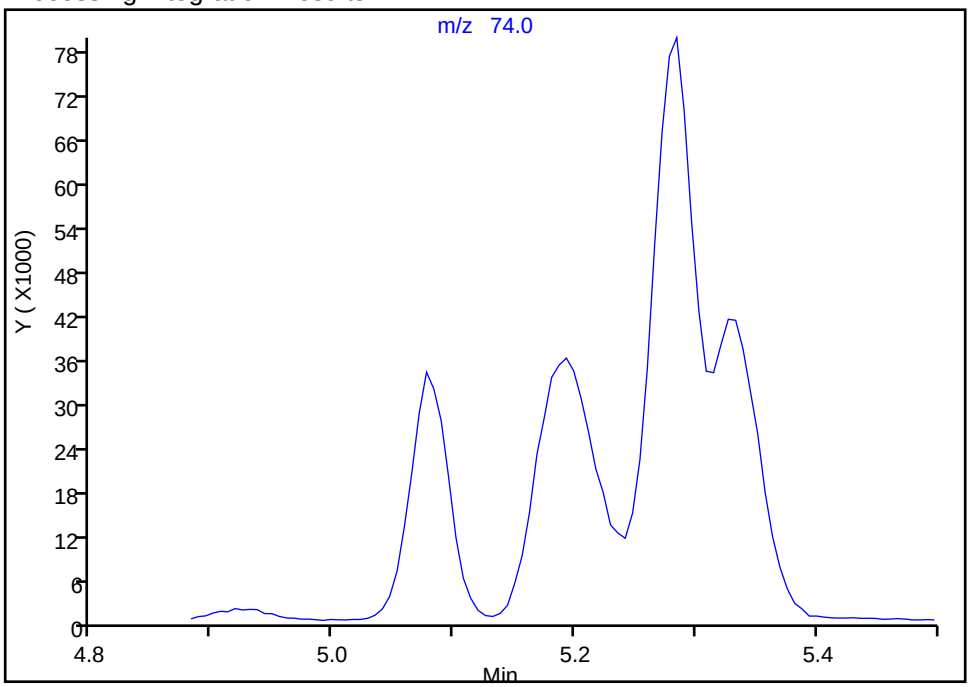
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Injection Date: 07-Jun-2018 02:38:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

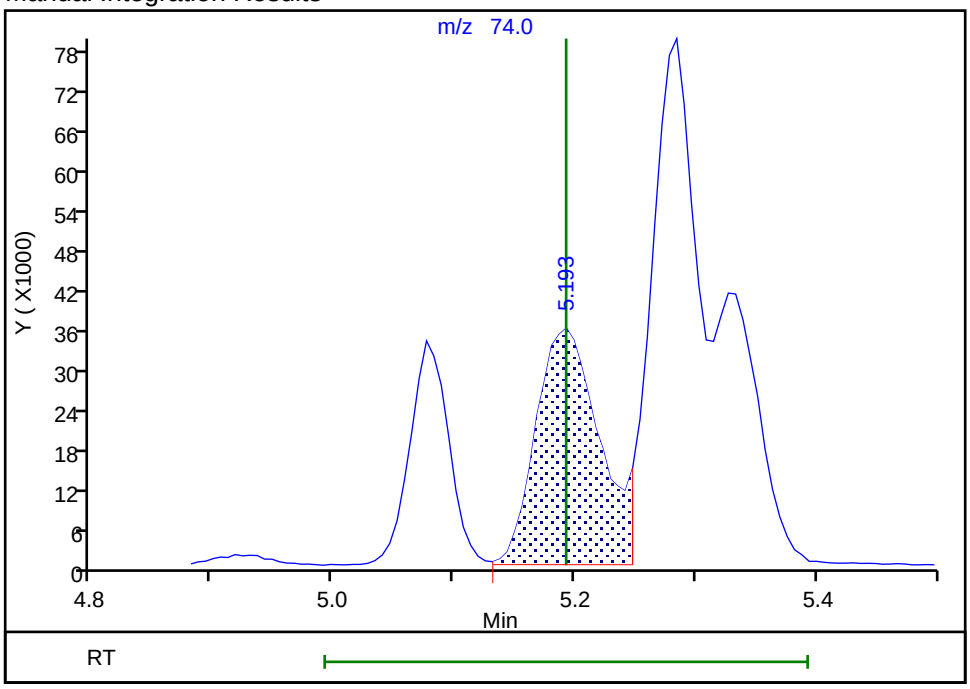
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 133650
Amount: 4746.0534
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:40:54
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

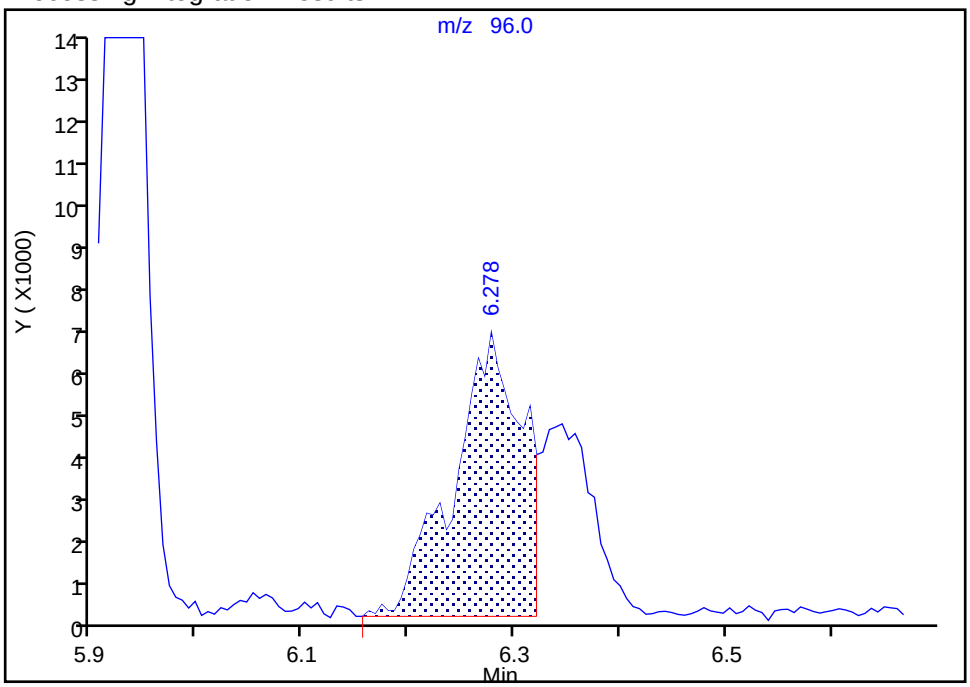
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Injection Date: 07-Jun-2018 02:38:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

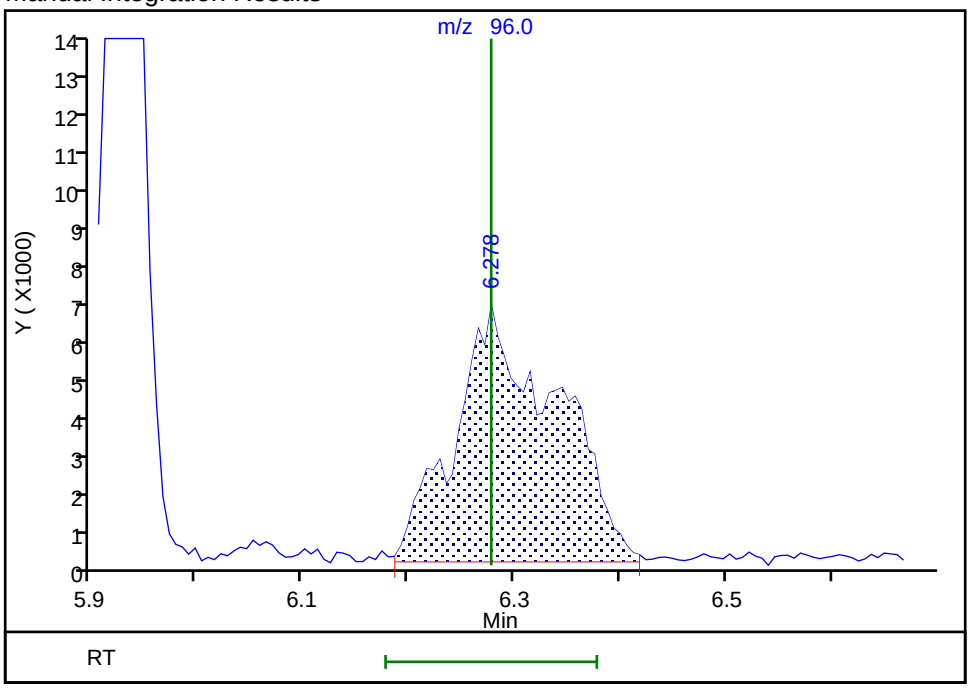
Processing Integration Results

RT: 6.28
Area: 29920
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.28
Area: 44677
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:41:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

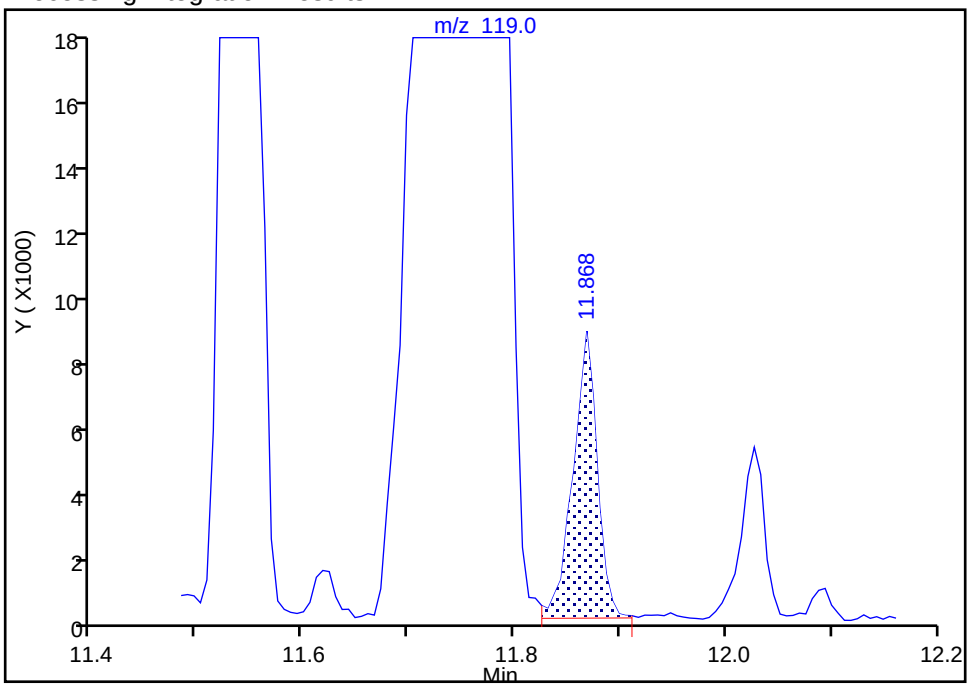
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84645.D
Injection Date: 07-Jun-2018 02:38:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

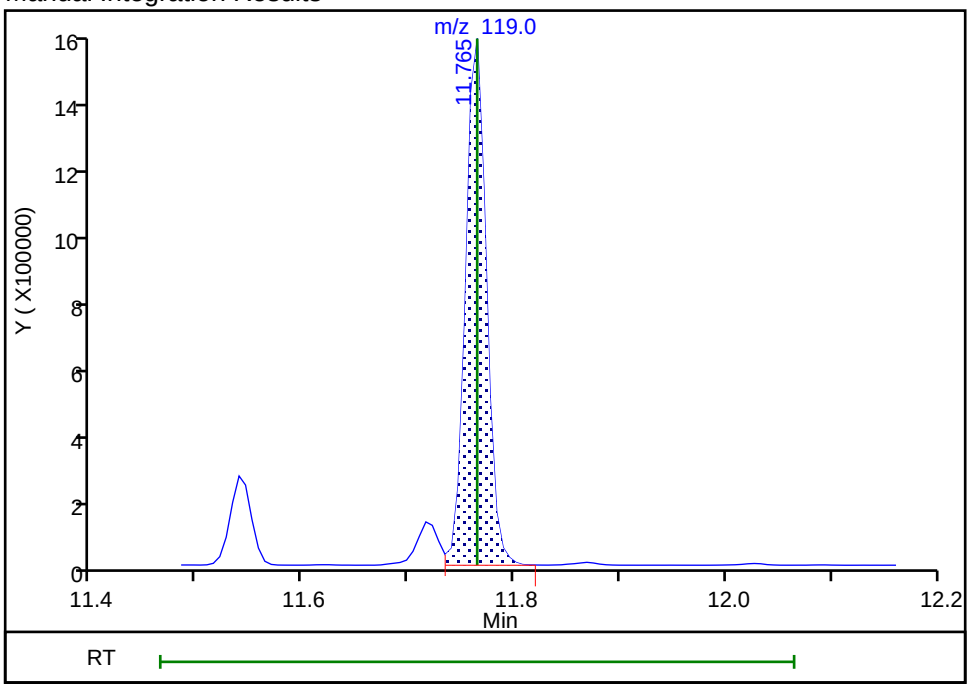
Processing Integration Results

RT: 11.87
Area: 13920
Amount: 1.677014
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 2186672
Amount: 181.7861
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:41:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 07-Jun-2018 03:02:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0073325-008
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:04:34 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: tupayachia Date: 07-Jun-2018 03:44:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.596	0.000	88	1680942	500.0	523.5	
2 Dichlorodifluoromethane	85	1.632	1.632	0.000	99	3745626	500.0	520.3	
3 Chloromethane	50	1.815	1.809	0.006	99	3153255	500.0	456.9	
4 Vinyl chloride	62	1.907	1.907	0.000	98	3092866	500.0	470.0	
5 Butadiene	54	1.913	1.913	0.000	97	2762634	500.0	509.2	
6 Bromomethane	94	2.212	2.212	0.000	99	1879231	500.0	414.6	
7 Chloroethane	64	2.279	2.273	0.006	100	1308305	500.0	410.1	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	99	4157881	500.0	414.0	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	98	3622731	500.0	468.3	
10 Pentane	72	2.486	2.492	-0.006	96	648582	1000.0	965.1	
12 Ethanol	46	2.681	2.693	-0.012	88	569165	20000	19203	
11 Ethyl ether	59	2.687	2.693	-0.006	94	1688004	500.0	454.2	
13 2-Methyl-1,3-butadiene	53	2.705	2.711	-0.006	97	1880260	500.0	462.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.736	0.018	83	2102961	500.0	480.9	
15 Acrolein	56	2.870	2.870	0.000	92	430347	600.0	566.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.888	2.894	-0.006	97	2518057	500.0	489.4	
17 1,1-Dichloroethene	96	2.907	2.913	-0.006	98	2194970	500.0	478.4	
18 Acetone	43	2.992	2.998	-0.006	87	3321670	2500.0	2500.3	
19 Iodomethane	142	3.071	3.071	0.000	99	4237588	500.0	473.7	
22 Isopropyl alcohol	45	3.083	3.077	0.006	100	2072900	5000.0	4668.2	a
20 Carbon disulfide	76	3.108	3.108	0.000	99	8616598	500.0	477.9	
21 3-Chloro-1-propene	76	3.230	3.236	-0.006	99	1449765	500.0	466.3	
23 Methyl acetate	43	3.236	3.242	-0.006	100	3185966	1000.0	1000.8	
24 Cyclopentene	67	3.254	3.260	-0.006	95	5394167	500.0	458.9	
29 Acetonitrile	41	3.303	3.309	-0.006	98	3676796	5000.0	4581.4	a
* 25 TBA-d9 (IS)	65	3.346	3.358	-0.012	0	471782	1000.0	1000.0	
26 Methylene Chloride	84	3.364	3.370	-0.006	94	2523222	500.0	445.7	
27 2-Methyl-2-propanol	59	3.419	3.425	-0.006	100	3406589	5000.0	4922.3	
28 Methyl tert-butyl ether	73	3.522	3.522	0.000	97	6597762	500.0	465.6	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	95	2309322	500.0	440.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.626	0.000	94	8151710	5000.0	4644.9	
32 Hexane	43	3.705	3.711	-0.006	94	2276964	500.0	444.5	
33 Isopropyl ether	45	3.919	3.919	0.000	98	7549456	500.0	444.8	
34 1,1-Dichloroethane	63	3.961	3.967	-0.006	99	4068945	500.0	446.9	
35 Vinyl acetate	86	3.967	3.967	0.000	100	827475	1000.0	1018.9	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	90	2058378	500.0	465.3	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	7002506	500.0	458.2	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	395183	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.467	0.006	95	1149149	500.0	431.5	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	96	2630722	500.0	449.4	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	96	1354557	2500.0	2406.0	
41 Ethyl acetate	70	4.498	4.498	0.000	93	488723	1000.0	1042.4	
44 Methyl acrylate	55	4.559	4.553	0.006	100	1889559	500.0	490.5	
43 Propionitrile	54	4.644	4.638	0.006	98	3392374	5000.0	5238.6	
45 Tetrahydrofuran	72	4.723	4.723	0.000	95	618599	1000.0	945.7	
46 Chlorobromomethane	128	4.729	4.729	0.000	91	1259750	500.0	451.3	
47 Methacrylonitrile	67	4.748	4.742	0.006	92	8573595	5000.0	4642.3	
48 Chloroform	83	4.778	4.772	0.006	99	4057685	500.0	458.4	
49 Cyclohexane	84	4.918	4.918	0.000	92	3764444	500.0	479.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	98	3738113	500.0	472.1	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	209521	50.0	46.3	
52 Carbon tetrachloride	117	5.053	5.052	0.001	98	3370818	500.0	477.1	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	98	3256238	500.0	474.8	
56 Isobutyl alcohol	74	5.187	5.193	-0.006	96	366251	12500	12529	a
54 Benzene	78	5.278	5.278	0.000	96	9342739	500.0	463.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	246904	50.0	53.7	
57 Isopropyl acetate	43	5.315	5.321	-0.006	98	7152619	500.0	457.5	a
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	93	2094289	500.0	466.8	
59 1,2-Dichloroethane	62	5.370	5.369	0.001	96	2874072	500.0	468.9	
60 n-Heptane	57	5.424	5.424	0.000	94	2331167	500.0	484.1	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	663413	50.0	50.0	
62 n-Butanol	56	5.857	5.851	0.006	88	2408585	12500	13477	
63 Trichloroethene	95	5.930	5.930	0.000	99	2460635	500.0	482.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	94	4671103	500.0	483.1	
64 Ethyl acrylate	56	6.058	6.058	0.000	98	1596229	500.0	485.2	a
66 1,2-Dichloropropane	63	6.223	6.217	0.006	94	2461003	500.0	478.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	89	3073958	1000.0	1035.6	
* 67 1,4-Dioxane-d8	96	6.363	6.278	0.085	0	50709	1000.0	1000.0	M
69 1,4-Dioxane	88	6.333	6.327	0.006	30	582914	10000	7687.0	
70 n-Propyl acetate	43	6.333	6.327	0.006	99	3317075	500.0	479.6	
71 Dibromomethane	93	6.357	6.357	0.000	98	1533449	500.0	492.0	
72 Dichlorobromomethane	83	6.503	6.503	0.000	99	3323762	500.0	508.4	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	73	1397676	500.0	520.3	
74 2-Nitropropane	41	6.833	6.833	0.000	88	1130886	1000.0	899.6	
75 Epichlorohydrin	57	6.949	6.942	0.006	99	4839566	10000	9980.1	
76 cis-1,3-Dichloropropene	75	7.009	7.003	0.006	91	3933757	500.0	508.8	
77 4-Methyl-2-pentanone (MIBK	43	7.162	7.156	0.006	96	11421383	2500.0	2318.2	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	828007	50.0	49.8	
79 Toluene	91	7.333	7.333	0.000	94	10022856	500.0	484.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	3417284	500.0	505.3	
81 Ethyl methacrylate	69	7.692	7.692	0.000	90	2966328	500.0	475.2	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	97	1757744	500.0	505.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	2541475	500.0	512.2	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	3329577	500.0	504.5	
85 2-Hexanone	43	8.162	8.156	0.006	96	7523422	2500.0	2439.5	
86 n-Butyl acetate	43	8.265	8.271	-0.006	99	3447523	500.0	475.6	
87 Chlorodibromomethane	129	8.357	8.351	0.006	98	2513333	500.0	510.0	
88 Ethylene Dibromide	107	8.515	8.509	0.006	98	2125842	500.0	512.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	84	536262	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	97	6506394	500.0	501.0	
92 Ethylbenzene	106	9.186	9.186	0.000	98	3572164	500.0	487.2	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	97	2562178	500.0	480.2	
93 m-Xylene & p-Xylene	106	9.338	9.332	0.006	0	4433125	500.0	492.8	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	1708144	500.0	459.3	
95 o-Xylene	106	9.808	9.802	0.006	94	4481108	500.0	479.9	
96 Styrene	104	9.838	9.832	0.006	96	7253115	500.0	490.4	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	90	3956810	500.0	480.1	
98 Bromoform	173	10.070	10.070	0.000	97	1604491	500.0	513.6	
99 Isopropylbenzene	105	10.192	10.186	0.006	96	11777467	500.0	478.3	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	91	242632	50.0	49.2	
101 Bromobenzene	156	10.551	10.551	0.000	97	2828195	500.0	519.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	99	2930457	500.0	513.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	13337965	500.0	491.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	98	745676	500.0	507.4	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	82	701765	500.0	499.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	91	8971558	500.0	488.9	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	10698636	500.0	480.1	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	10127665	500.0	510.5	
109 4-Chlorotoluene	91	10.844	10.844	0.000	97	7884677	500.0	505.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	90	3385866	500.0	503.0	
111 tert-Butylbenzene	119	11.094	11.094	0.000	94	8499925	500.0	541.4	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	10221628	500.0	500.9	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	13006514	500.0	507.2	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	97	11023247	500.0	494.9	
115 1,3-Dichlorobenzene	146	11.442	11.441	0.001	96	5198187	500.0	490.8	
* 116 1,4-Dichlorobenzene-d4	152	11.509	11.502	0.007	95	283657	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	95	5249426	500.0	492.4	
118 Benzyl chloride	91	11.655	11.655	0.000	99	5553646	500.0	473.4	
119 2,3-Dihydroindene	117	11.722	11.716	0.006	95	9925452	500.0	490.8	
120 p-Diethylbenzene	119	11.765	11.765	0.000	93	5987629	500.0	481.2	a
121 n-Butylbenzene	92	11.789	11.789	0.000	98	5822518	500.0	482.8	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	96	5353839	500.0	497.9	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	10710053	500.0	482.5	
124 1,2-Dibromo-3-Chloropropan	75	12.521	12.514	0.007	96	582541	500.0	489.7	
125 1,3,5-Trichlorobenzene	180	12.636	12.630	0.006	98	4403366	500.0	475.9	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	4259474	500.0	480.4	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	2329352	500.0	539.4	
128 Naphthalene	128	13.319	13.319	0.000	99	10185520	500.0	484.6	
129 1,2,3-Trichlorobenzene	180	13.514	13.508	0.006	96	4190800	500.0	487.0	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	890.4	
S 131 Xylenes, Total	100				0		1000.0	972.7	
S 132 Total BTEX	1				0		2500.0	2407.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	6.00	Units: uL	
GASES Li_00263	Amount Added:	50.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	50.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

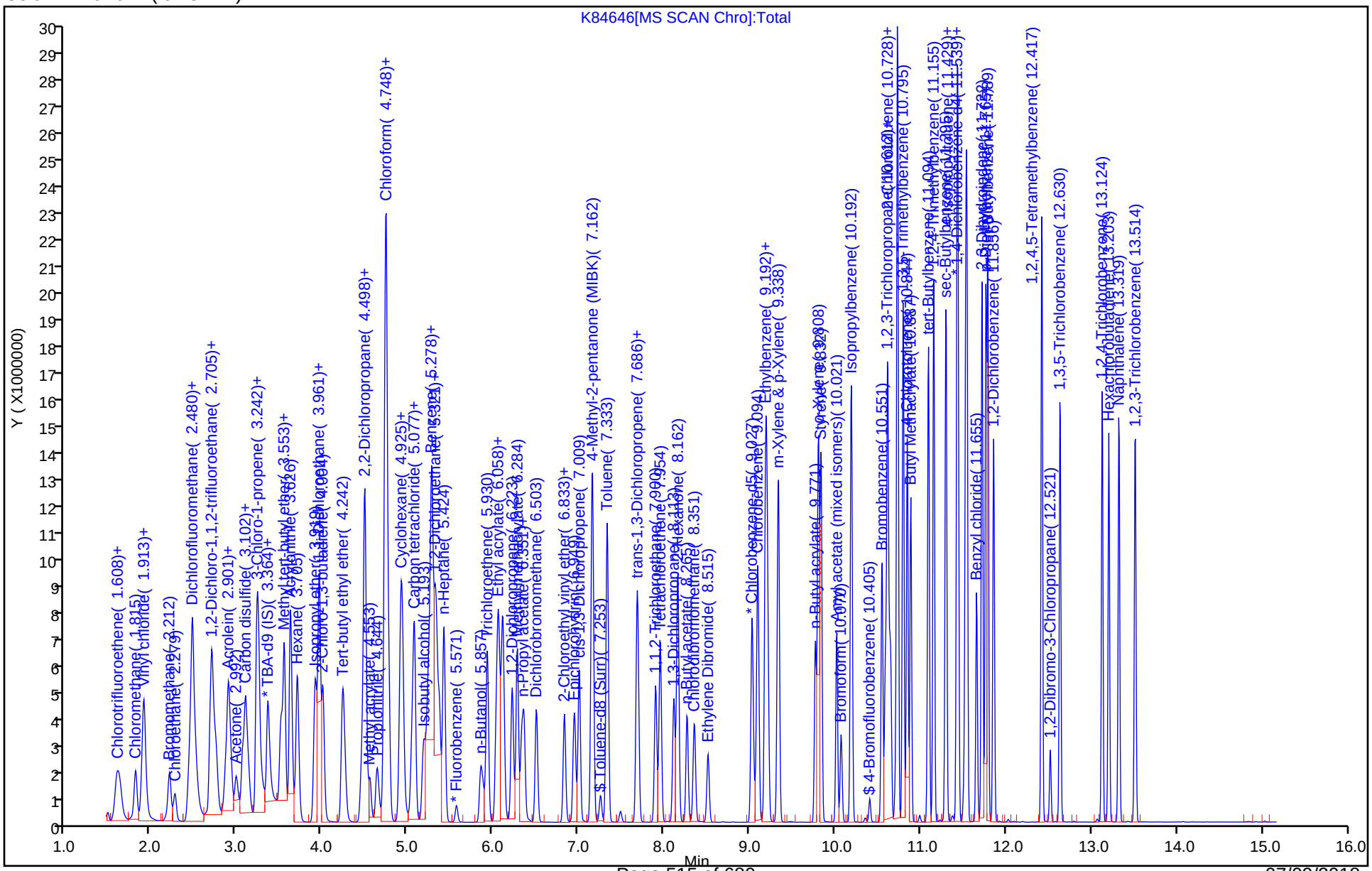
Report Date: 07-Jun-2018 15:04:36 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Injection Date:	07-Jun-2018 03:02:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

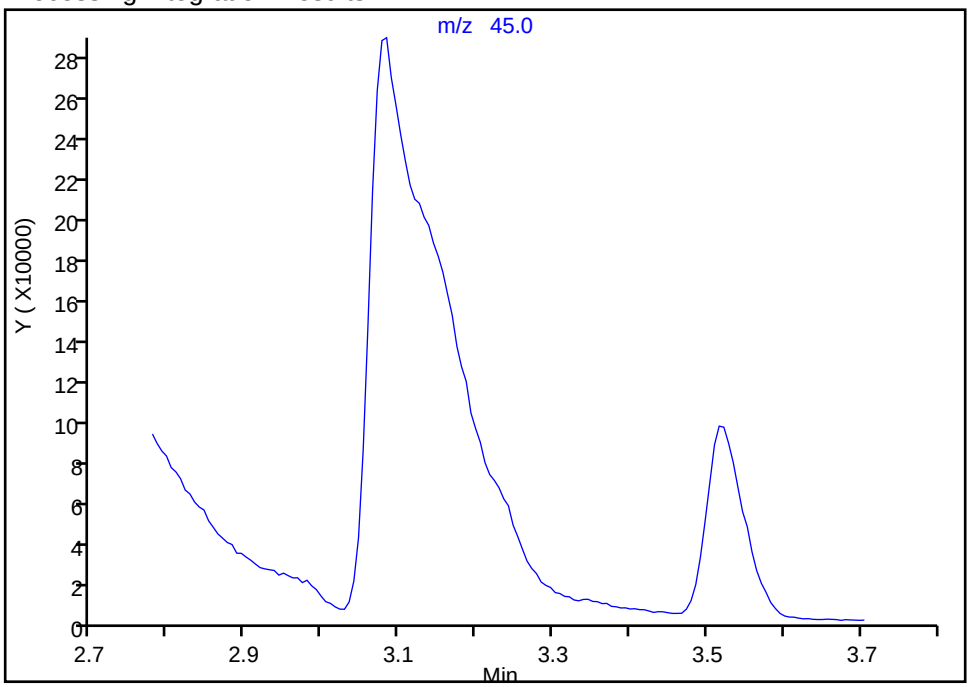
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

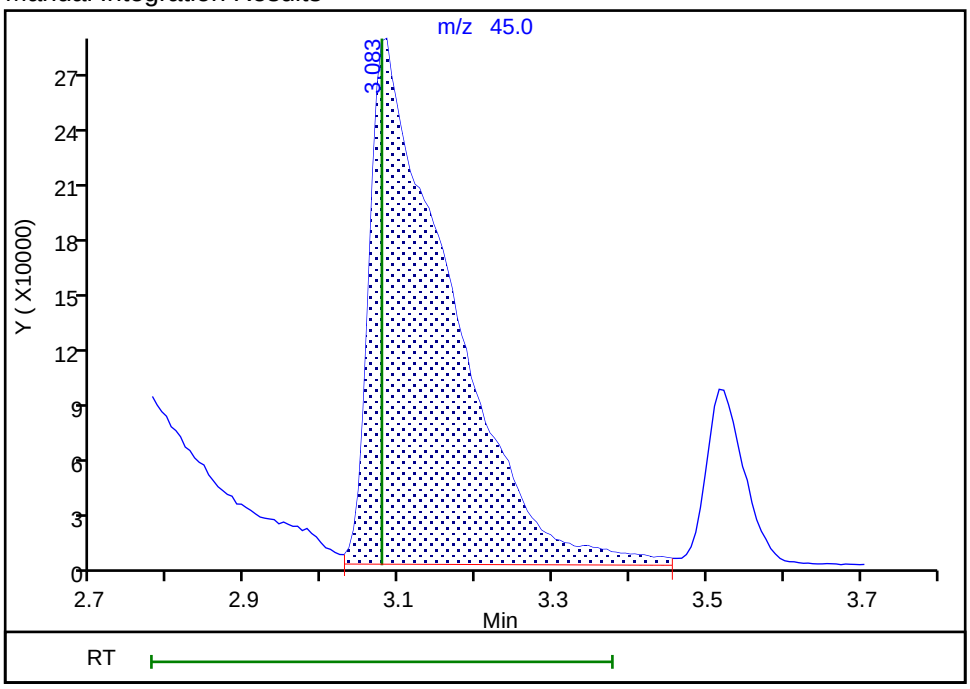
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 2072900
Amount: 4668.2199
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:42:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

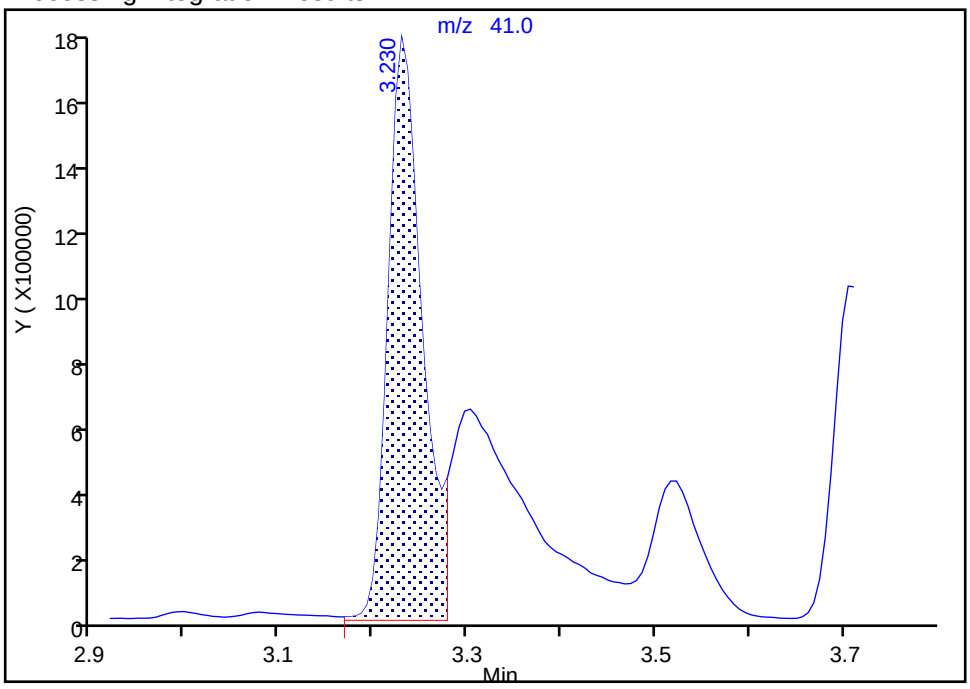
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

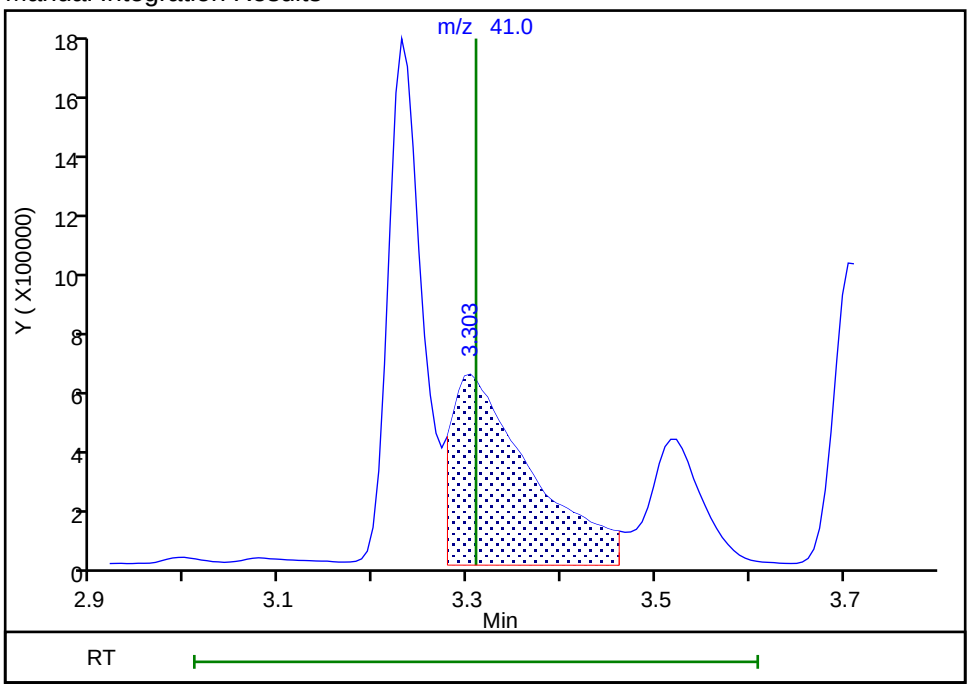
Processing Integration Results

RT: 3.23
Area: 4390039
Amount: 5312.7614
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 3676796
Amount: 4581.4212
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:42:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

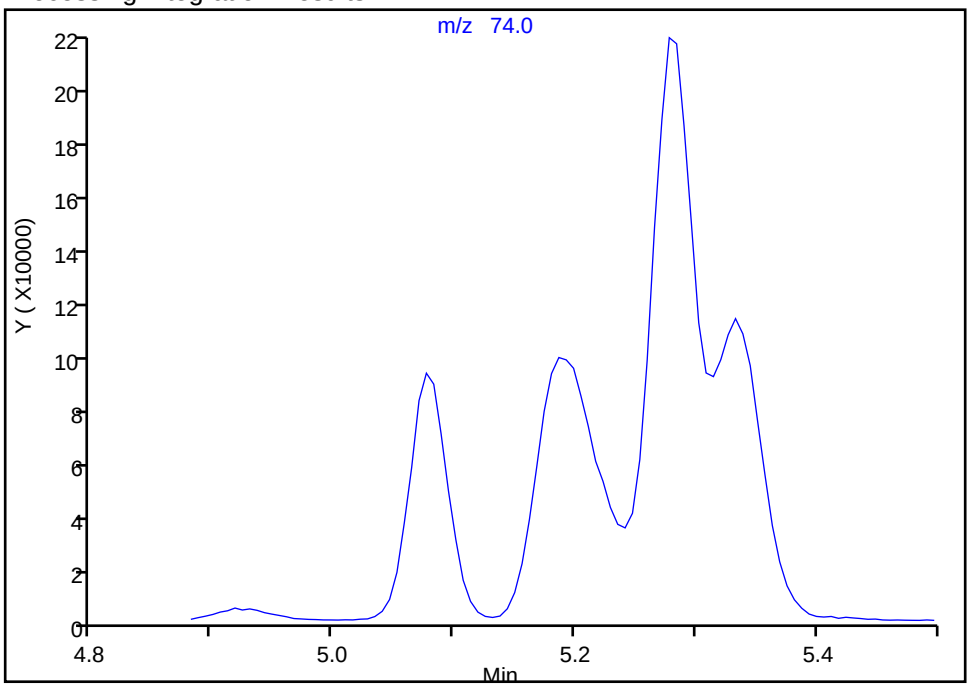
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

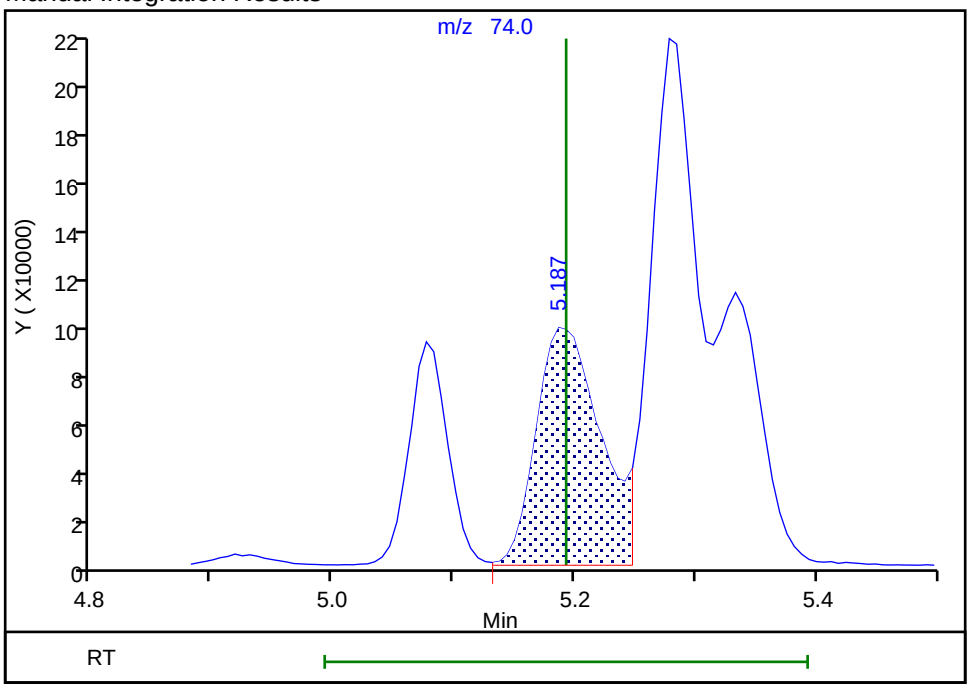
Not Detected
Expected RT: 5.19

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 366251
Amount: 12529
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:42:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

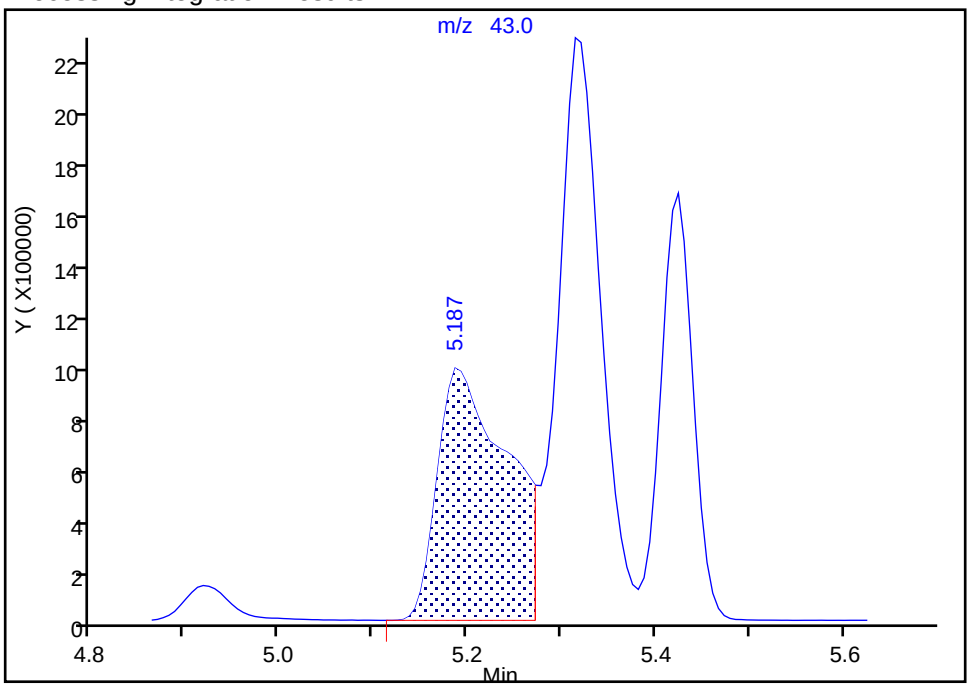
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

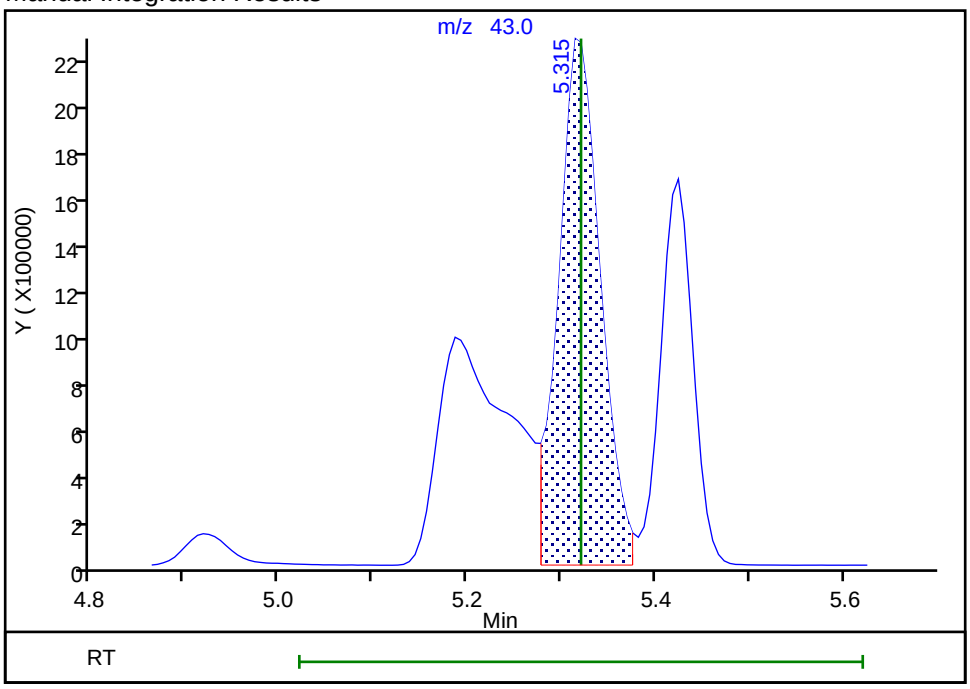
Processing Integration Results

RT: 5.19
Area: 5181157
Amount: 345.9316
Amount Units: ug/l



Manual Integration Results

RT: 5.31
Area: 7152619
Amount: 457.4878
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:42:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

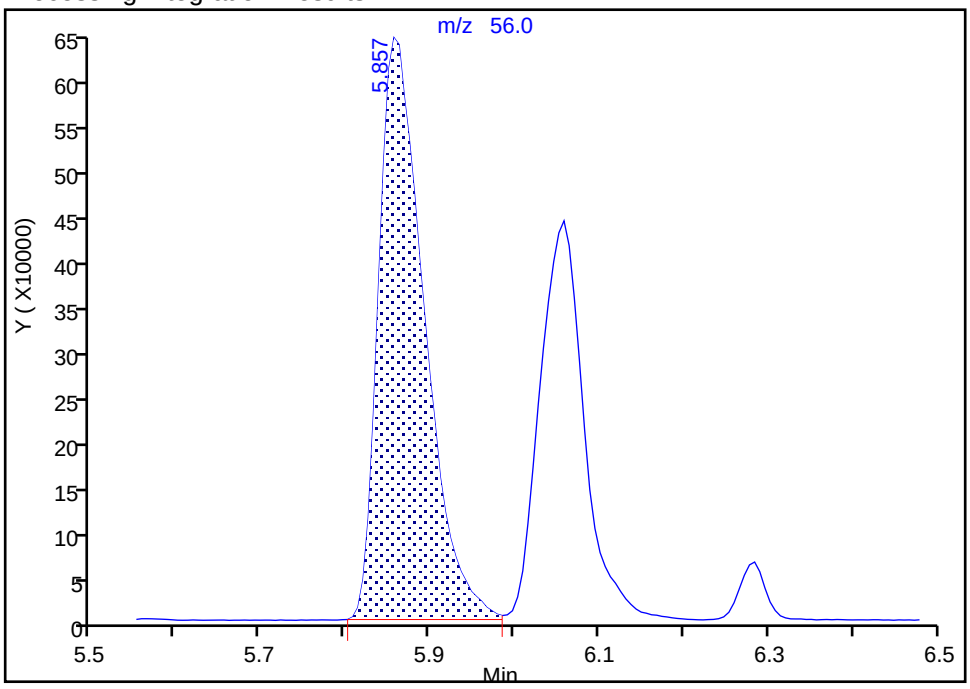
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

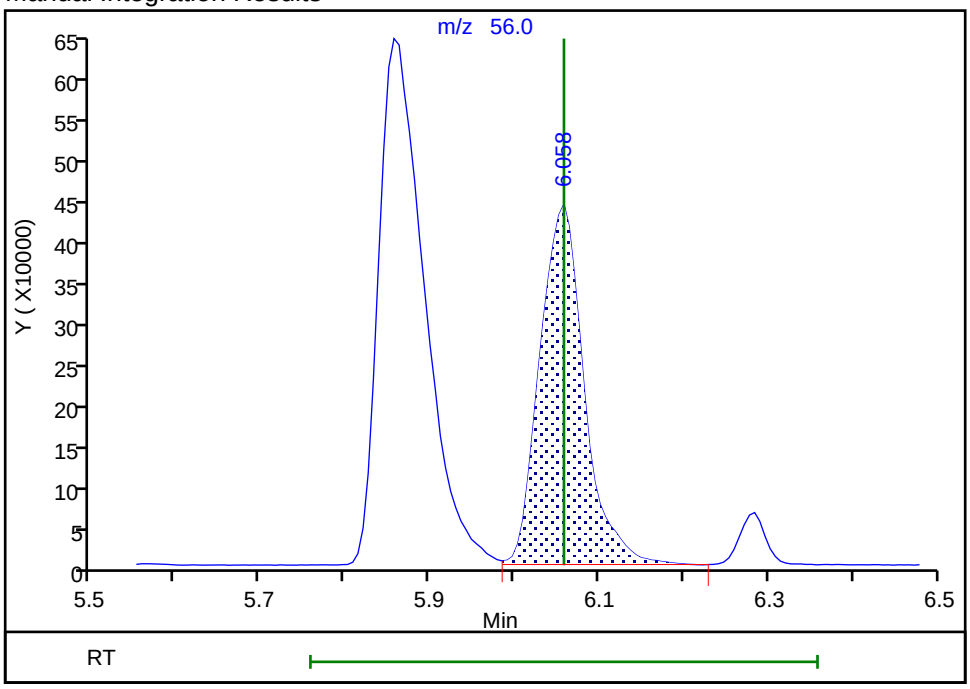
Processing Integration Results

RT: 5.86
Area: 2405036
Amount: 675.6986
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 1596229
Amount: 485.2158
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:42:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

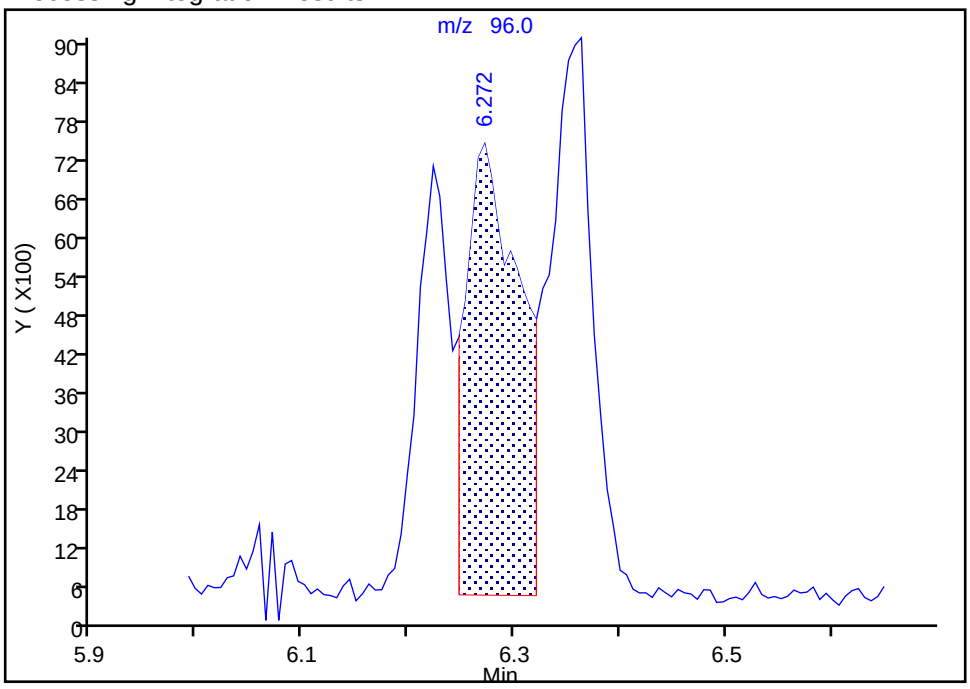
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

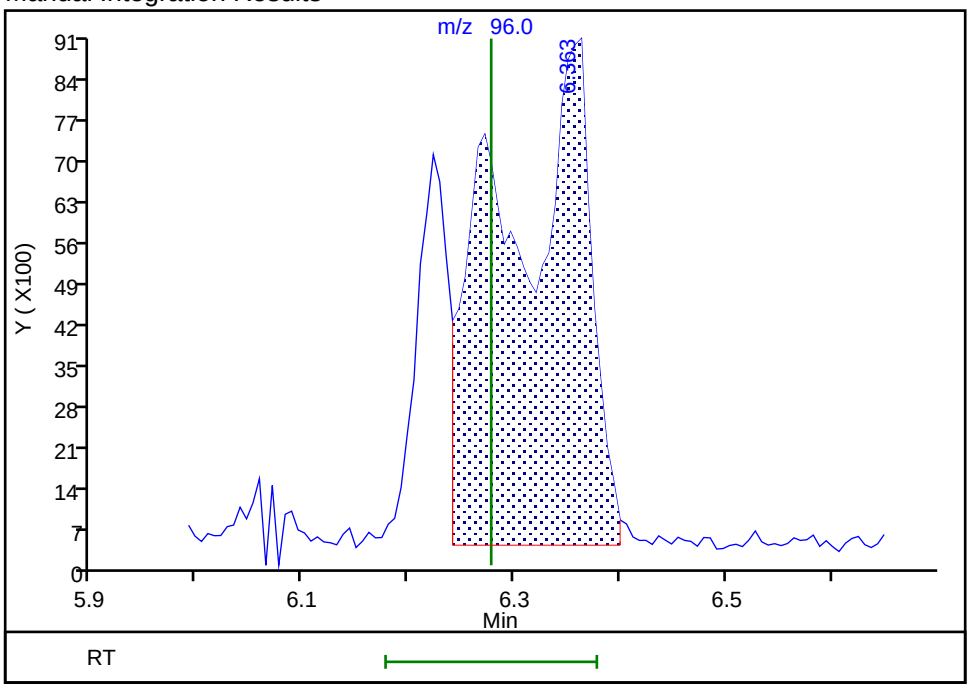
Processing Integration Results

RT: 6.27
Area: 25316
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.36
Area: 50709
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:43:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

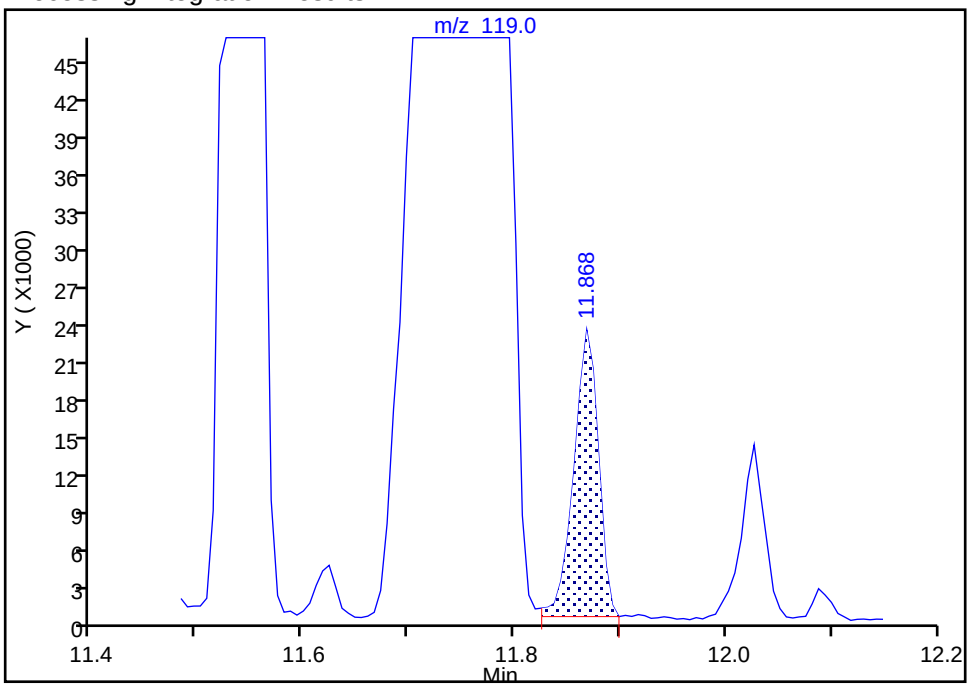
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D
Injection Date: 07-Jun-2018 03:02:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

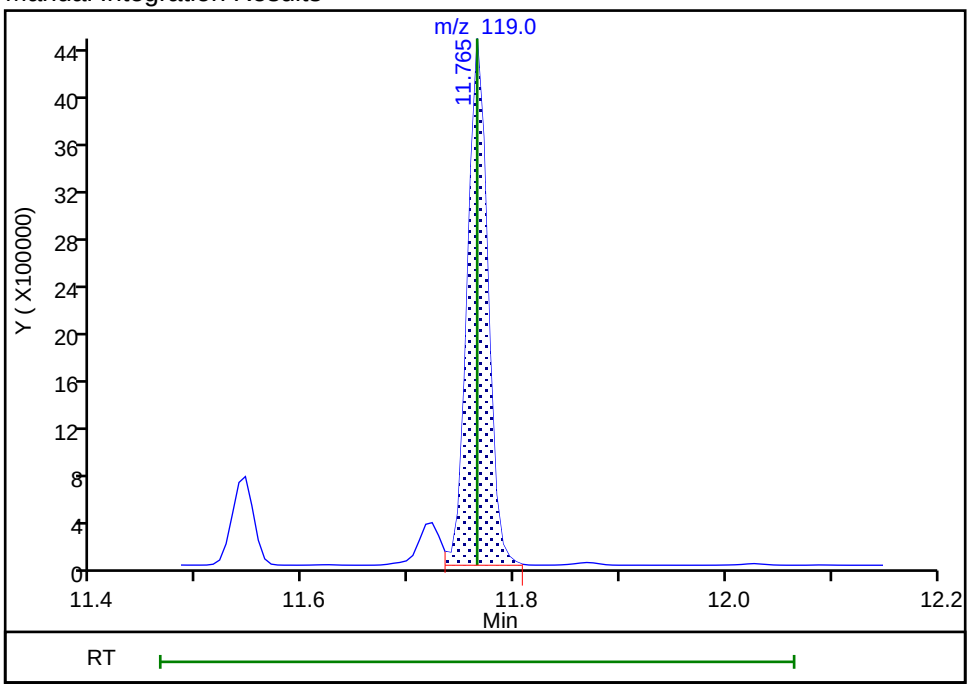
Processing Integration Results

RT: 11.87
Area: 36892
Amount: 2.038109
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 5987629
Amount: 481.2482
Amount Units: ug/l



Reviewer: delpolitov, 07-Jun-2018 14:43:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533092/3 Calibration Date: 07/03/2018 08:26

Instrument ID: CVOAMS11 Calib Start Date: 06/05/2018 09:01

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 11:19

Lab File ID: N68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2349	0.2024		17.2	20.0	-13.9	20.0
Dichlorodifluoromethane	Ave	0.1497	0.1624	0.1000	21.7	20.0	8.5	20.0
Chloromethane	Ave	1.562	3.028	0.1000	38.8	20.0	93.8*	20.0
Butadiene	Ave	0.3057	0.2887		18.9	20.0	-5.6	20.0
Vinyl chloride	Ave	0.3649	0.3816	0.1000	20.9	20.0	4.6	20.0
Bromomethane	Ave	0.2195	0.2399	0.1000	21.9	20.0	9.3	50.0
Chloroethane	Ave	0.1797	0.2353	0.1000	26.2	20.0	30.9	50.0
Pentane	Ave	2.688	4.485		66.7	40.0	66.8*	20.0
Trichlorofluoromethane	Ave	0.4846	0.5672	0.1000	23.4	20.0	17.1	20.0
Dichlorofluoromethane	Ave	0.5570	0.6208		22.3	20.0	11.4	20.0
2-Methyl-1,3-butadiene	Ave	0.2290	0.2043		17.8	20.0	-10.8	20.0
Ethyl ether	Ave	0.2025	0.1745		17.2	20.0	-13.8	20.0
Ethanol	Ave	0.0635	0.0446		563	800	-29.7	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3083	0.3046		19.8	20.0	-1.2	20.0
1,1-Dichloroethene	Ave	0.2610	0.2474	0.1000	19.0	20.0	-5.2	20.0
Carbon disulfide	Ave	0.9166	0.8841	0.1000	19.3	20.0	-3.5	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3168	0.3107	0.1000	19.6	20.0	-1.9	20.0
Iodomethane	Ave	0.5047	0.4588		18.2	20.0	-9.1	20.0
Cyclopentene	Ave	0.6478	0.6278		19.4	20.0	-3.1	20.0
Acrolein	Ave	1.694	1.562		36.9	40.0	-7.8	50.0
Isopropyl alcohol	Ave	0.6261	0.5704		182	200	-8.9	50.0
Allyl chloride	Ave	0.1562	0.1521		19.5	20.0	-2.7	20.0
Methylene Chloride	Ave	0.3138	0.3089	0.1000	19.7	20.0	-1.6	20.0
Acetone	Ave	0.2534	0.2906	0.0500	115	100	14.7	50.0
Methyl acetate	Ave	1.844	2.005	0.1000	43.5	40.0	8.7	20.0
trans-1,2-Dichloroethene	Ave	0.3004	0.3015	0.1000	20.1	20.0	0.4	20.0
Hexane	Ave	0.2273	0.2072		18.2	20.0	-8.8	20.0
Methyl tert-butyl ether	Ave	0.7812	0.6589	0.1000	16.9	20.0	-15.6	20.0
2-Methyl-2-propanol	Ave	1.217	1.103		181	200	-9.4	50.0
Acetonitrile	Ave	0.6880	0.8186		238	200	19.0	20.0
Isopropyl ether	Ave	0.8452	0.7795		18.4	20.0	-7.8	20.0
2-Chloro-1,3-butadiene	Ave	0.2384	0.2386		20.0	20.0	0.0	20.0
1,1-Dichloroethane	Ave	0.4616	0.4785	0.2000	20.7	20.0	3.7	20.0
Acrylonitrile	Ave	4.076	4.413		217	200	8.3	20.0
Tert-butyl ethyl ether	Ave	0.8115	0.6936		17.1	20.0	-14.5	20.0
Vinyl acetate	Ave	0.7114	0.9269		52.1	40.0	30.3*	20.0
cis-1,2-Dichloroethene	Ave	0.3164	0.3331	0.1000	21.1	20.0	5.3	20.0
2,2-Dichloropropane	Ave	0.1298	0.1308		20.2	20.0	0.8	20.0
Chlorobromomethane	Ave	0.1591	0.1312		16.5	20.0	-17.5	20.0
Cyclohexane	Ave	0.5554	0.4679	0.1000	16.8	20.0	-15.8	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533092/3 Calibration Date: 07/03/2018 08:26

Instrument ID: CVOAMS11 Calib Start Date: 06/05/2018 09:01

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 11:19

Lab File ID: N68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.4629	0.4802	0.2000	20.7	20.0	3.7	20.0
Ethyl acetate	Ave	0.3457	0.3502		40.5	40.0	1.3	20.0
Methyl acrylate	Ave	0.1796	0.1072		11.9	20.0	-40.3*	20.0
Carbon tetrachloride	Ave	0.3481	0.3642	0.1000	20.9	20.0	4.6	20.0
Tetrahydrofuran	Ave	0.4258	0.3577		33.6	40.0	-16.0	20.0
1,1,1-Trichloroethane	Ave	0.4379	0.4278	0.1000	19.5	20.0	-2.3	20.0
2-Butanone (MEK)	Ave	0.3466	0.4052	0.0500	117	100	16.9	50.0
1,1-Dichloropropene	Ave	0.3649	0.3321		18.2	20.0	-9.0	20.0
2,2,4-Trimethylpentane	Ave	0.7027	0.5445		15.5	20.0	-22.5*	20.0
n-Heptane	Ave	0.1845	0.1500		16.3	20.0	-18.7	20.0
Benzene	Ave	1.424	1.364	0.5000	19.2	20.0	-4.2	20.0
Propionitrile	Ave	1.509	1.451		192	200	-3.8	20.0
Methacrylonitrile	Ave	0.0882	0.0638		145	200	-27.7*	20.0
Tert-amyl methyl ether	Ave	0.7926	0.5974		15.1	20.0	-24.6*	20.0
Isobutyl alcohol	Ave	0.4287	0.3694		431	500	-13.8	50.0
1,2-Dichloroethane	Ave	0.3186	0.2692	0.1000	16.9	20.0	-15.5	20.0
Isopropyl acetate	Ave	0.3750	0.2221		11.8	20.0	-40.8*	20.0
Methylcyclohexane	Ave	0.5220	0.4414	0.1000	16.9	20.0	-15.5	50.0
Trichloroethene	Ave	0.2739	0.2753	0.2000	20.1	20.0	0.5	20.0
Ethyl acrylate	Ave	0.2447	0.3042		24.9	20.0	24.3*	20.0
n-Butanol	Ave	0.2597	0.2322		447	500	-10.6	50.0
Dibromomethane	Ave	0.1448	0.1328		18.3	20.0	-8.3	20.0
1,2-Dichloropropane	Ave	0.2525	0.2530	0.1000	20.0	20.0	0.2	20.0
Bromodichloromethane	Ave	0.3014	0.3168	0.2000	21.0	20.0	5.1	20.0
Methyl methacrylate	Ave	0.0682	0.0433		25.4	40.0	-36.4*	20.0
1,4-Dioxane	Ave	1.253	1.224		391	400	-2.3	50.0
n-Propyl acetate	Ave	0.2576	0.1610		12.5	20.0	-37.5*	20.0
2-Chloroethyl vinyl ether	Ave	0.1309	0.0900		13.8	20.0	-31.2*	20.0
cis-1,3-Dichloropropene	Ave	0.4713	0.4335	0.2000	18.4	20.0	-8.0	50.0
Toluene	Ave	1.569	1.534	0.4000	19.6	20.0	-2.2	20.0
Epichlorohydrin	Ave	0.2670	0.2789		418	400	4.5	20.0
Tetrachloroethene	Ave	0.4012	0.3548	0.2000	17.7	20.0	-11.6	20.0
2-Nitropropane	Ave	1.729	5.767		133	40.0	233.4*	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.536	2.584	0.0500	102	100	1.9	50.0
trans-1,3-Dichloropropene	Ave	0.4147	0.3612	0.1000	17.4	20.0	-12.9	50.0
1,1,2-Trichloroethane	Ave	0.2274	0.2038	0.1000	17.9	20.0	-10.4	20.0
Ethyl methacrylate	Ave	0.2850	0.1952		13.7	20.0	-31.5*	20.0
Dibromochloromethane	Ave	0.2690	0.2340	0.1000	17.4	20.0	-13.0	50.0
1,3-Dichloropropane	Ave	0.4981	0.4060		16.3	20.0	-18.5	20.0
1,2-Dibromoethane	Ave	0.2677	0.2088	0.1000	15.6	20.0	-22.0*	20.0
n-Butyl acetate	Ave	0.3789	0.2013		10.6	20.0	-46.9*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533092/3 Calibration Date: 07/03/2018 08:26

Instrument ID: CVOAMS11 Calib Start Date: 06/05/2018 09:01

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 11:19

Lab File ID: N68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	0.9423	0.9330	0.0500	99.0	100	-1.0	50.0
Chlorobenzene	Ave	1.022	1.016	0.5000	19.9	20.0	-0.6	20.0
Ethylbenzene	Ave	0.5647	0.5317	0.1000	18.8	20.0	-5.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3388	0.3383		20.0	20.0	-0.2	20.0
m-Xylene & p-Xylene	Ave	0.6779	0.6295	0.1000	18.6	20.0	-7.1	20.0
o-Xylene	Ave	0.6645	0.6033	0.3000	18.2	20.0	-9.2	20.0
Styrene	Ave	1.026	0.9560	0.3000	18.6	20.0	-6.8	20.0
Bromoform	Ave	0.2745	0.2310	0.1000	16.8	20.0	-15.9	20.0
n-Butyl acrylate	Ave	0.2037	0.1291		12.7	20.0	-36.6*	20.0
Isopropylbenzene	Ave	1.751	1.634	0.1000	18.7	20.0	-6.7	20.0
Bromobenzene	Ave	0.7697	0.7460		19.4	20.0	-3.1	20.0
N-Propylbenzene	Ave	3.314	3.507		21.2	20.0	5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.5913	0.4782	0.3000	16.2	20.0	-19.1	20.0
4-Ethyltoluene	Ave	2.884	2.925		20.3	20.0	1.4	20.0
2-Chlorotoluene	Ave	2.316	2.561		22.1	20.0	10.6	20.0
1,3,5-Trimethylbenzene	Ave	2.494	2.573		20.6	20.0	3.2	20.0
1,2,3-Trichloropropane	Ave	0.2055	0.1589		15.5	20.0	-22.7*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1507	0.1057		14.0	20.0	-29.9*	20.0
4-Chlorotoluene	Ave	2.047	2.257		22.1	20.0	10.3	20.0
tert-Butylbenzene	Ave	2.127	2.171		20.4	20.0	2.1	20.0
Butyl Methacrylate	Ave	0.7329	0.6387		17.4	20.0	-12.8	20.0
1,2,4-Trimethylbenzene	Ave	2.625	2.778		21.2	20.0	5.8	20.0
sec-Butylbenzene	Ave	3.099	3.237		20.9	20.0	4.5	20.0
4-Isopropyltoluene	Ave	2.791	2.764		19.8	20.0	-1.0	20.0
1,3-Dichlorobenzene	Ave	1.554	1.596	0.6000	20.5	20.0	2.7	20.0
1,4-Dichlorobenzene	Ave	1.557	1.562	0.5000	20.1	20.0	0.3	20.0
1,2,3-Trimethylbenzene	Ave	2.821	2.939		20.8	20.0	4.2	20.0
Indan	Ave	2.823	2.862		20.3	20.0	1.4	20.0
p-Diethylbenzene	Ave	1.502	1.609		21.4	20.0	7.1	20.0
Benzyl chloride	Ave	0.2391	0.1807		15.1	20.0	-24.4	50.0
n-Butylbenzene	Ave	1.333	1.402		21.0	20.0	5.2	20.0
1,2-Dichlorobenzene	Ave	1.531	1.472	0.4000	19.2	20.0	-3.9	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.652	2.332		17.6	20.0	-12.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1056	0.0697	0.0500	13.2	20.0	-34.0	50.0
1,3,5-Trichlorobenzene	Ave	1.211	1.082		17.9	20.0	-10.7	20.0
Hexachlorobutadiene	Ave	0.3858	0.3501		18.1	20.0	-9.3	20.0
1,2,4-Trichlorobenzene	Ave	1.130	0.9210	0.2000	16.3	20.0	-18.5	20.0
Naphthalene	Ave	2.443	1.544		12.6	20.0	-36.8	50.0
1,2,3-Trichlorobenzene	Ave	1.050	0.8253		15.7	20.0	-21.4*	20.0
Dibromofluoromethane (Surr)	Ave	0.2406	0.2335		48.5	50.0	-2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2402	0.2064		43.0	50.0	-14.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533092/3 Calibration Date: 07/03/2018 08:26

Instrument ID: CVOAMS11 Calib Start Date: 06/05/2018 09:01

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 11:19

Lab File ID: N68527.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.283	1.218		47.5	50.0	-5.1	20.0
4-Bromofluorobenzene	Ave	0.4076	0.3567		43.8	50.0	-12.5	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 03-Jul-2018 08:26:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074795-003
Operator ID: Instrument ID: CVOAMS11
Sublist: chrom-8260W_11*sub1

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 13:47:15 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:49:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.553	1.553	0.000	88	47660	20.0	17.2	
2 Dichlorodifluoromethane	87	1.577	1.577	0.000	98	38250	20.0	21.7	
3 Chloromethane	52	1.723	1.723	0.000	99	31572	20.0	38.8	
5 Butadiene	54	1.790	1.790	0.000	74	67988	20.0	18.9	
4 Vinyl chloride	62	1.790	1.790	0.000	97	89869	20.0	20.9	
6 Bromomethane	94	2.052	2.052	0.000	97	56499	20.0	21.9	
7 Chloroethane	64	2.155	2.155	0.000	98	55414	20.0	26.2	
10 Pentane	72	2.234	2.234	0.000	97	26254	40.0	66.7	
9 Trichlorofluoromethane	101	2.271	2.271	0.000	97	133589	20.0	23.4	
8 Dichlorofluoromethane	67	2.313	2.313	0.000	98	146206	20.0	22.3	
12 Ethyl ether	59	2.490	2.490	0.000	66	41101	20.0	17.2	
13 2-Methyl-1,3-butadiene	53	2.490	2.490	0.000	94	48115	20.0	17.8	
11 Ethanol	46	2.629	2.629	0.000	86	5226	800.0	562.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.654	2.654	0.000	68	71733	20.0	19.8	a
17 1,1-Dichloroethene	96	2.666	2.666	0.000	96	58266	20.0	19.0	
20 Carbon disulfide	76	2.696	2.696	0.000	99	208226	20.0	19.3	
15 1,1,2-Trichloro-1,2,2-trif	101	2.709	2.709	0.000	95	73182	20.0	19.6	a
19 Iodomethane	142	2.788	2.788	0.000	99	108049	20.0	18.2	
23 Cyclopentene	67	2.903	2.903	0.000	94	147848	20.0	19.4	
16 Acrolein	56	2.934	2.934	0.000	91	9143	40.0	36.9	
21 Isopropyl alcohol	45	3.037	3.037	0.000	13	16697	200.0	182.2	a
22 3-Chloro-1-propene	76	3.055	3.055	0.000	92	35811	20.0	19.5	
26 Methylene Chloride	84	3.134	3.134	0.000	88	72754	20.0	19.7	
18 Acetone	58	3.177	3.177	0.000	86	15153	100.0	114.7	
24 Methyl acetate	74	3.268	3.268	0.000	52	11736	40.0	43.5	
30 trans-1,2-Dichloroethene	96	3.268	3.268	0.000	92	71017	20.0	20.1	
32 Hexane	56	3.323	3.323	0.000	94	48804	20.0	18.2	
29 Methyl tert-butyl ether	73	3.347	3.347	0.000	95	155190	20.0	16.9	M
* 27 TBA-d9 (IS)	65	3.353	3.353	0.000	94	146358	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.420	3.420	0.000	96	32276	200.0	181.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
25 Acetonitrile	40	3.566	3.566	0.000	99	23963	200.0	238.0	a
33 Isopropyl ether	45	3.658	3.658	0.000	93	183591	20.0	18.4	
36 2-Chloro-1,3-butadiene	88	3.761	3.761	0.000	87	56183	20.0	20.0	
34 1,1-Dichloroethane	63	3.785	3.785	0.000	99	112697	20.0	20.7	
31 Acrylonitrile	53	3.834	3.834	0.000	96	129177	200.0	216.5	
37 Tert-butyl ethyl ether	59	3.974	3.974	0.000	91	163363	20.0	17.1	
35 Vinyl acetate	86	3.986	3.986	0.000	99	19331	40.0	52.1	
40 cis-1,2-Dichloroethene	96	4.266	4.266	0.000	97	78442	20.0	21.1	
38 2,2-Dichloropropane	79	4.369	4.369	0.000	96	30808	20.0	20.2	
46 Chlorobromomethane	128	4.442	4.442	0.000	73	30905	20.0	16.5	
49 Cyclohexane	84	4.442	4.442	0.000	84	110206	20.0	16.8	
48 Chloroform	83	4.509	4.509	0.000	98	113105	20.0	20.7	
42 Ethyl acetate	70	4.613	4.613	0.000	100	7304	40.0	40.5	
43 Methyl acrylate	55	4.619	4.619	0.000	50	25238	20.0	11.9	a
52 Carbon tetrachloride	117	4.643	4.643	0.000	96	85773	20.0	20.9	
45 Tetrahydrofuran	72	4.661	4.661	0.000	42	7460	40.0	33.6	
$ 51 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	96	137482	50.0	48.5	
50 1,1,1-Trichloroethane	97	4.716	4.716	0.000	94	100765	20.0	19.5	
* 39 2-Butanone-d5	46	4.753	4.753	0.000	0	130350	250.0	250.0	
41 2-Butanone (MEK)	72	4.807	4.807	0.000	96	21127	100.0	116.9	M
53 1,1-Dichloropropene	75	4.820	4.820	0.000	98	78206	20.0	18.2	
54 Isooctane	57	4.911	4.911	0.000	99	128248	20.0	15.5	
61 n-Heptane	57	5.002	5.002	0.000	88	35337	20.0	16.3	
55 Benzene	78	5.057	5.057	0.000	93	262108	20.0	19.2	
44 Propionitrile	54	5.105	5.105	0.000	37	42463	200.0	192.3	
47 Methacrylonitrile	67	5.112	5.112	0.000	86	150153	200.0	144.6	
57 Tert-amyl methyl ether	73	5.166	5.166	0.000	96	140705	20.0	15.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.203	5.203	0.000	96	121503	50.0	43.0	
58 Isobutyl alcohol	43	5.270	5.270	0.000	52	27029	500.0	430.8	
60 1,2-Dichloroethane	62	5.276	5.276	0.000	97	63400	20.0	16.9	
* 62 Fluorobenzene	96	5.483	5.483	0.000	99	588795	50.0	50.0	
59 Isopropyl acetate	43	5.513	5.513	0.000	97	52315	20.0	11.8	
65 Methylcyclohexane	83	5.641	5.641	0.000	92	103945	20.0	16.9	
64 Trichloroethene	95	5.647	5.647	0.000	91	64846	20.0	20.1	
66 Ethyl acrylate	55	5.653	5.653	0.000	77	71642	20.0	24.9	a
63 n-Butanol	56	6.006	6.006	0.000	84	16994	500.0	447.1	
71 Dibromomethane	93	6.121	6.121	0.000	97	31277	20.0	18.3	
67 1,2-Dichloropropane	63	6.231	6.231	0.000	90	59591	20.0	20.0	
73 Dichlorobromomethane	83	6.304	6.304	0.000	98	74604	20.0	21.0	
69 Methyl methacrylate	100	6.480	6.480	0.000	85	20408	40.0	25.4	
* 68 1,4-Dioxane-d8	96	6.499	6.499	0.000	87	19489	1000.0	1000.0	
70 1,4-Dioxane	88	6.523	6.523	0.000	44	9543	400.0	390.7	
72 n-Propyl acetate	43	6.645	6.645	0.000	94	37920	20.0	12.5	
75 2-Chloroethyl vinyl ether	63	6.973	6.973	0.000	96	21201	20.0	13.8	
77 cis-1,3-Dichloropropene	75	7.040	7.040	0.000	89	83292	20.0	18.4	
$ 79 Toluene-d8 (Surr)	98	7.265	7.265	0.000	100	585061	50.0	47.5	
80 Toluene	91	7.326	7.326	0.000	92	294719	20.0	19.6	
76 Epichlorohydrin	57	7.362	7.362	0.000	99	58172	400.0	417.9	
84 Tetrachloroethene	166	7.819	7.819	0.000	96	68173	20.0	17.7	
74 2-Nitropropane	41	7.825	7.825	0.000	70	33760	40.0	133.4	
78 4-Methyl-2-pentanone (MIBK	43	7.831	7.831	0.000	93	134744	100.0	101.9	
81 trans-1,3-Dichloropropene	75	7.874	7.874	0.000	97	69413	20.0	17.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	8.093	8.093	0.000	92	39161	20.0	17.9	
82 Ethyl methacrylate	69	8.099	8.099	0.000	82	45968	20.0	13.7	
88 Chlorodibromomethane	129	8.318	8.318	0.000	98	44971	20.0	17.4	
85 1,3-Dichloropropane	76	8.445	8.445	0.000	88	78014	20.0	16.3	
89 Ethylene Dibromide	107	8.616	8.616	0.000	98	40129	20.0	15.6	
87 n-Butyl acetate	43	8.841	8.841	0.000	96	38679	20.0	10.6	
86 2-Hexanone	58	8.950	8.950	0.000	95	48644	100.0	99.0	
* 90 Chlorobenzene-d5	117	9.254	9.254	0.000	85	480374	50.0	50.0	
91 Chlorobenzene	112	9.273	9.273	0.000	97	195229	20.0	19.9	
92 Ethylbenzene	106	9.315	9.315	0.000	97	102166	20.0	18.8	
93 1,1,1,2-Tetrachloroethane	131	9.358	9.358	0.000	93	65003	20.0	20.0	
94 m-Xylene & p-Xylene	106	9.486	9.486	0.000	0	120965	20.0	18.6	
96 o-Xylene	106	9.936	9.936	0.000	95	115917	20.0	18.2	
97 Styrene	104	9.997	9.997	0.000	97	183690	20.0	18.6	
99 Bromoform	173	10.015	10.015	0.000	95	23521	20.0	16.8	
95 n-Butyl acrylate	73	10.155	10.155	0.000	98	24807	20.0	12.7	
100 Isopropylbenzene	105	10.258	10.258	0.000	95	314041	20.0	18.7	
98 Amyl acetate (mixed isomer	43	10.410	10.410	0.000	96	56917	20.0	13.3	
$ 101 4-Bromofluorobenzene	174	10.532	10.532	0.000	92	171323	50.0	43.8	
102 Bromobenzene	156	10.617	10.617	0.000	96	75974	20.0	19.4	
104 N-Propylbenzene	91	10.660	10.660	0.000	100	357122	20.0	21.2	
103 1,1,2,2-Tetrachloroethane	83	10.739	10.739	0.000	96	48702	20.0	16.2	
108 4-Ethyltoluene	105	10.763	10.763	0.000	98	297882	20.0	20.3	
107 2-Chlorotoluene	91	10.794	10.794	0.000	96	260767	20.0	22.1	
109 1,3,5-Trimethylbenzene	105	10.842	10.842	0.000	94	262088	20.0	20.6	
105 1,2,3-Trichloropropane	110	10.854	10.854	0.000	93	16185	20.0	15.5	
106 trans-1,4-Dichloro-2-buten	53	10.891	10.891	0.000	84	10761	20.0	14.0	
110 4-Chlorotoluene	91	10.946	10.946	0.000	97	229906	20.0	22.1	
112 tert-Butylbenzene	119	11.122	11.122	0.000	92	221096	20.0	20.4	
111 Butyl Methacrylate	87	11.128	11.128	0.000	53	65050	20.0	17.4	
113 1,2,4-Trimethylbenzene	105	11.189	11.189	0.000	97	282907	20.0	21.2	
114 sec-Butylbenzene	105	11.280	11.280	0.000	99	329714	20.0	20.9	
115 4-Isopropyltoluene	119	11.408	11.408	0.000	98	281448	20.0	19.8	
116 1,3-Dichlorobenzene	146	11.463	11.463	0.000	97	162502	20.0	20.5	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	95	254606	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.536	11.536	0.000	95	159039	20.0	20.1	
134 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	98	299299	20.0	20.8	
120 2,3-Dihydroindene	117	11.670	11.670	0.000	93	291501	20.0	20.3	
121 p-Diethylbenzene	119	11.712	11.712	0.000	96	163838	20.0	21.4	
119 Benzyl chloride	126	11.749	11.749	0.000	91	18399	20.0	15.1	
122 n-Butylbenzene	92	11.755	11.755	0.000	94	142779	20.0	21.0	
123 1,2-Dichlorobenzene	146	11.883	11.883	0.000	97	149864	20.0	19.2	
124 1,2,4,5-Tetramethylbenzene	119	12.357	12.357	0.000	97	237527	20.0	17.6	
125 1,2-Dibromo-3-Chloropropan	155	12.527	12.527	0.000	89	7095	20.0	13.2	
126 1,3,5-Trichlorobenzene	180	12.540	12.540	0.000	97	110236	20.0	17.9	
128 Hexachlorobutadiene	225	13.008	13.008	0.000	92	35654	20.0	18.1	
127 1,2,4-Trichlorobenzene	180	13.038	13.038	0.000	94	93795	20.0	16.3	
129 Naphthalene	128	13.294	13.294	0.000	99	157218	20.0	12.6	
130 1,2,3-Trichlorobenzene	180	13.446	13.446	0.000	97	84049	20.0	15.7	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.1	
S 132 Xylenes, Total	100				0		40.0	36.7	
S 133 Total BTEX	1				0		100.0	94.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Jul-2018 13:47:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D

Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11 Operator ID:

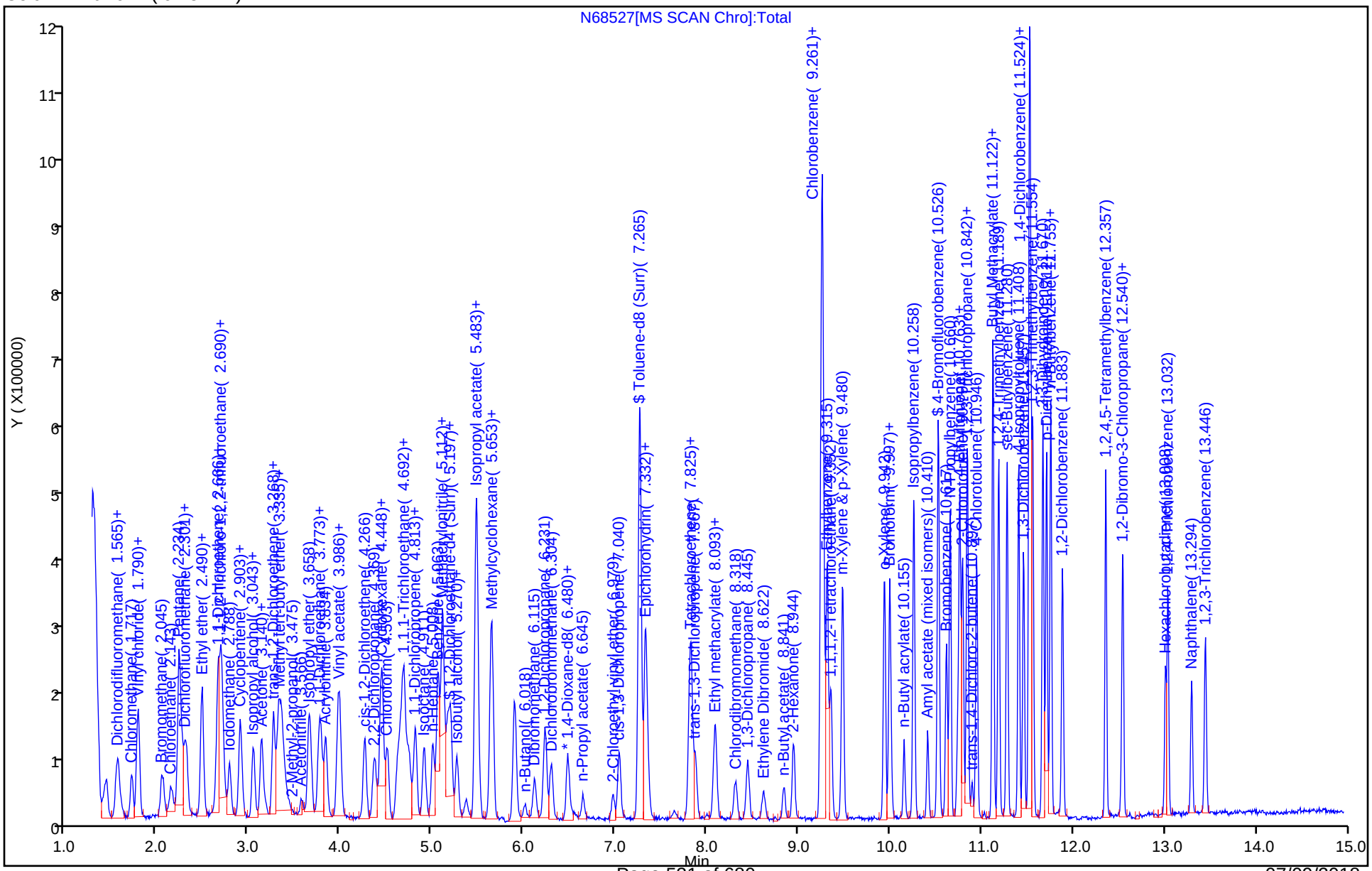
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

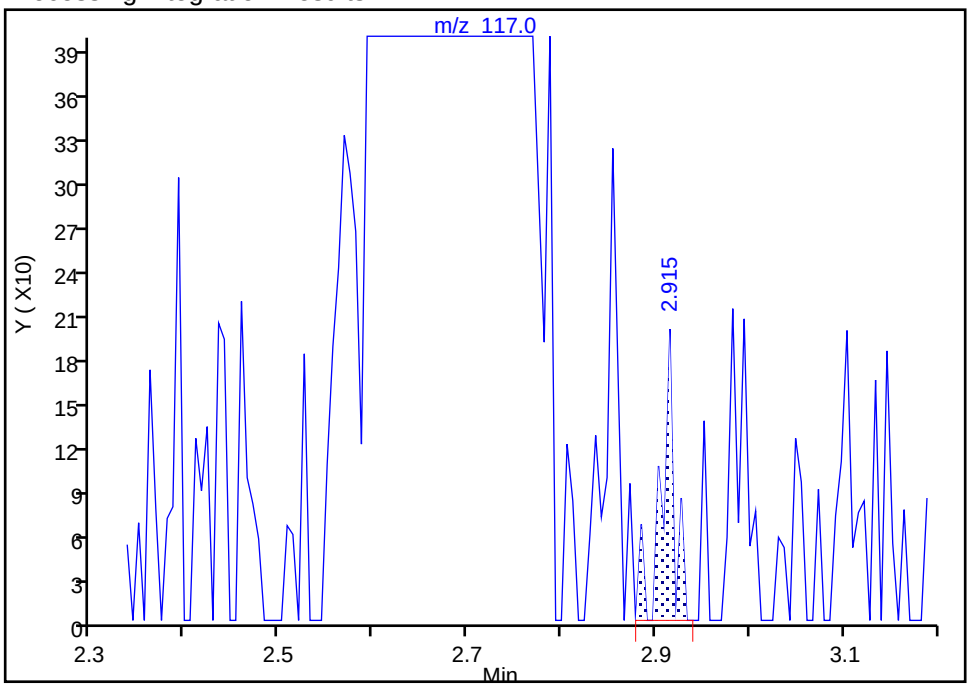
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Signal: 1

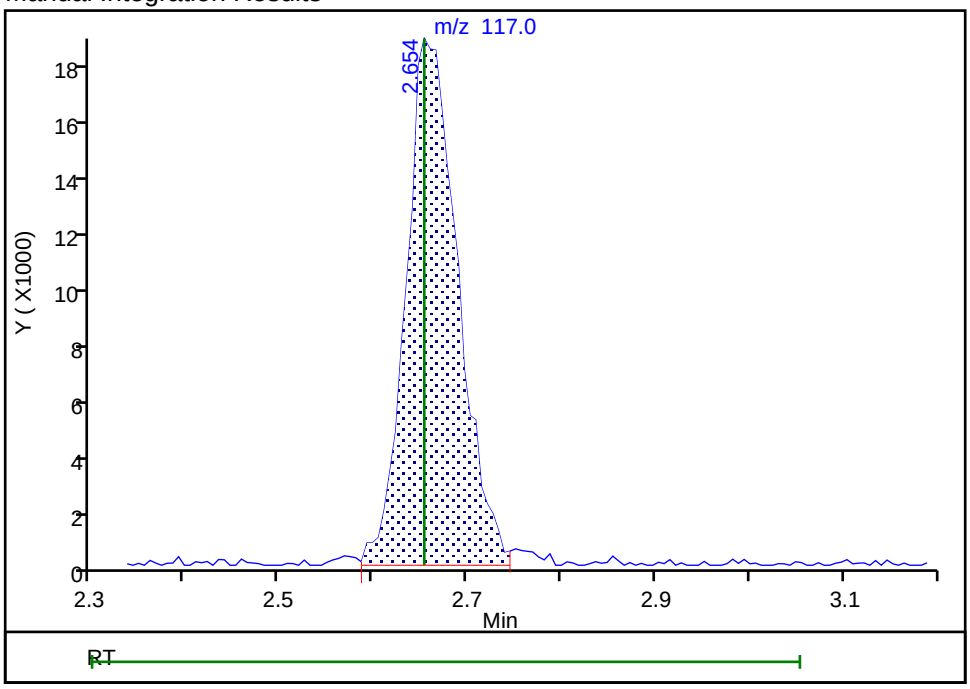
Processing Integration Results

RT: 2.92
Area: 188
Amount: 0.051791
Amount Units: ug/l



Manual Integration Results

RT: 2.65
Area: 71733
Amount: 19.761128
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:31:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

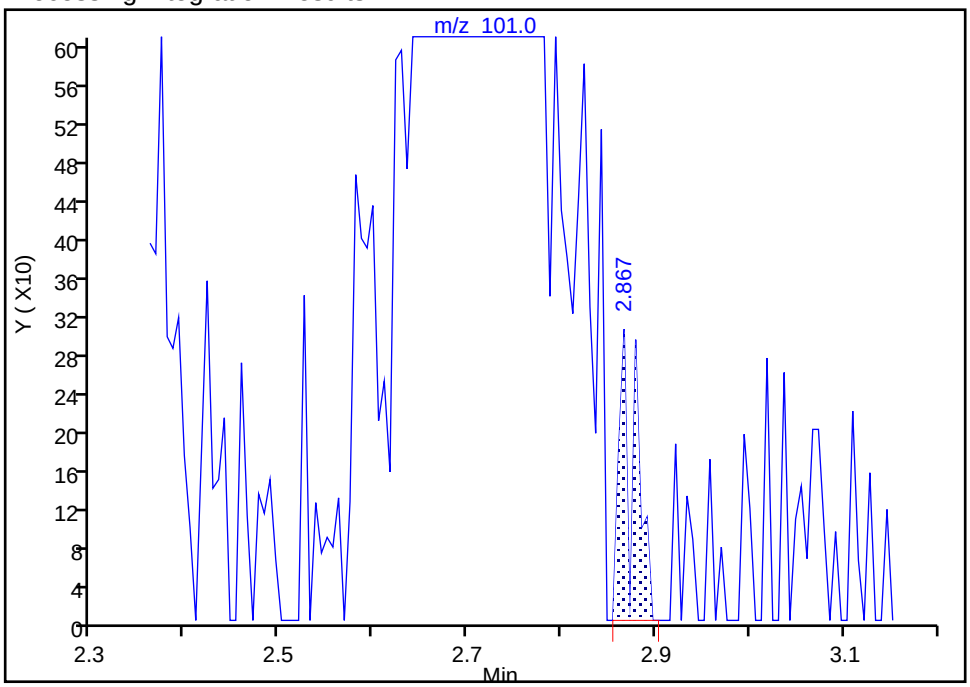
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

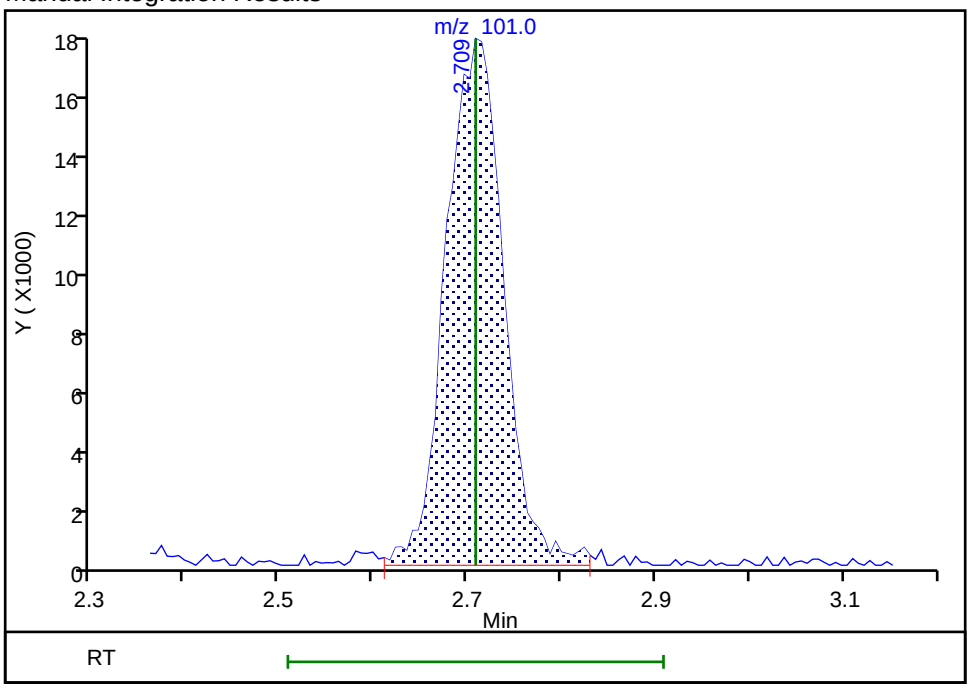
Processing Integration Results

RT: 2.87
Area: 353
Amount: 0.094620
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 73182
Amount: 19.616112
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:32:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

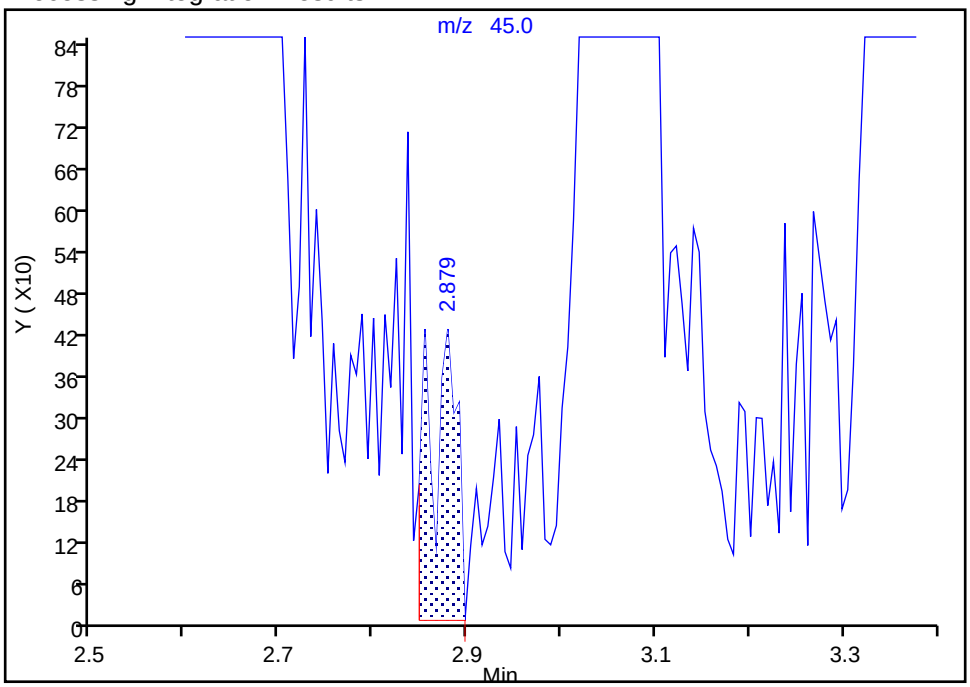
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

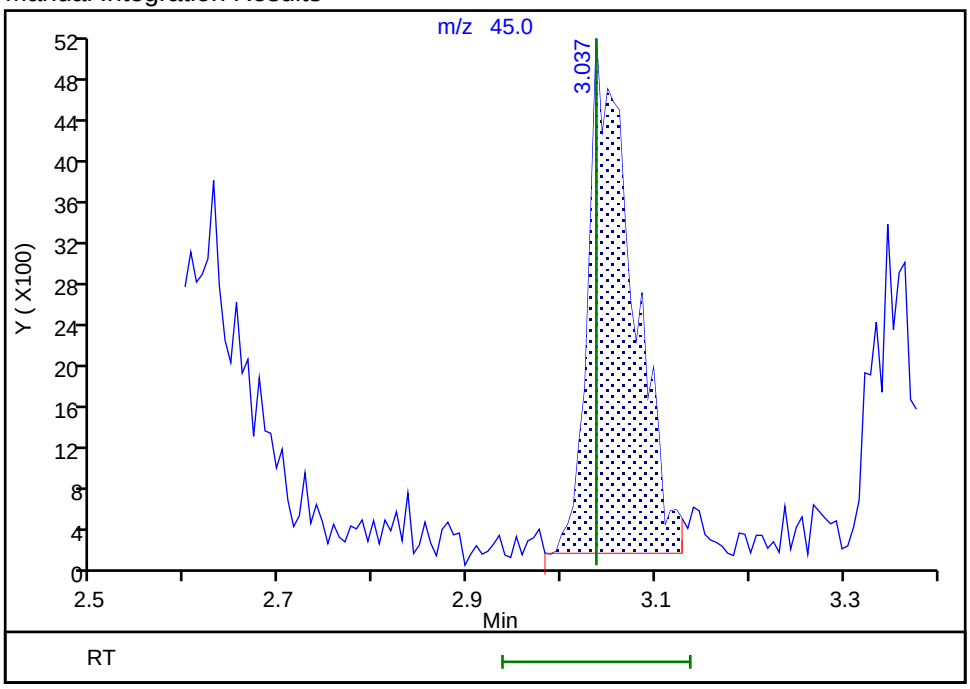
Processing Integration Results

RT: 2.88
Area: 849
Amount: 9.265308
Amount Units: ug/l



Manual Integration Results

RT: 3.04
Area: 16697
Amount: 182.2177
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 12:46:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

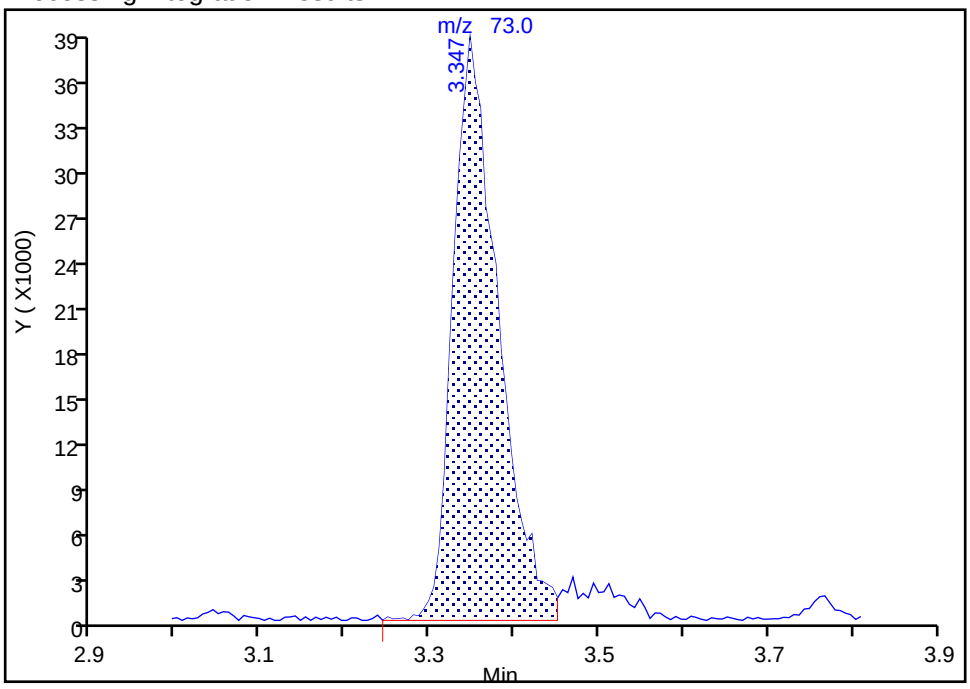
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

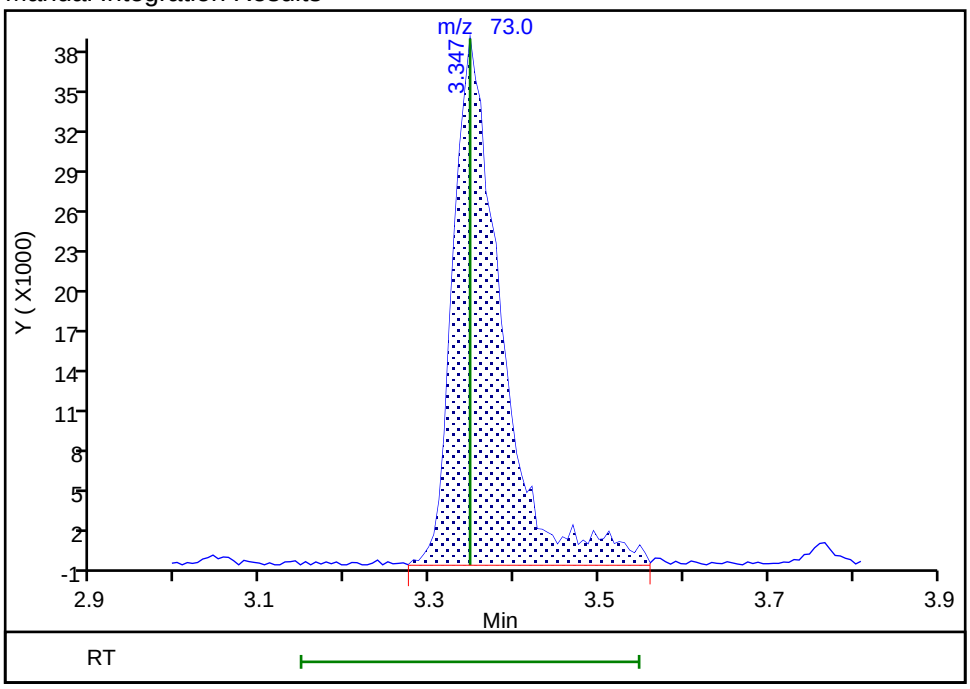
Processing Integration Results

RT: 3.35
Area: 144116
Amount: 15.666550
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 155190
Amount: 16.870382
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 13:47:08
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

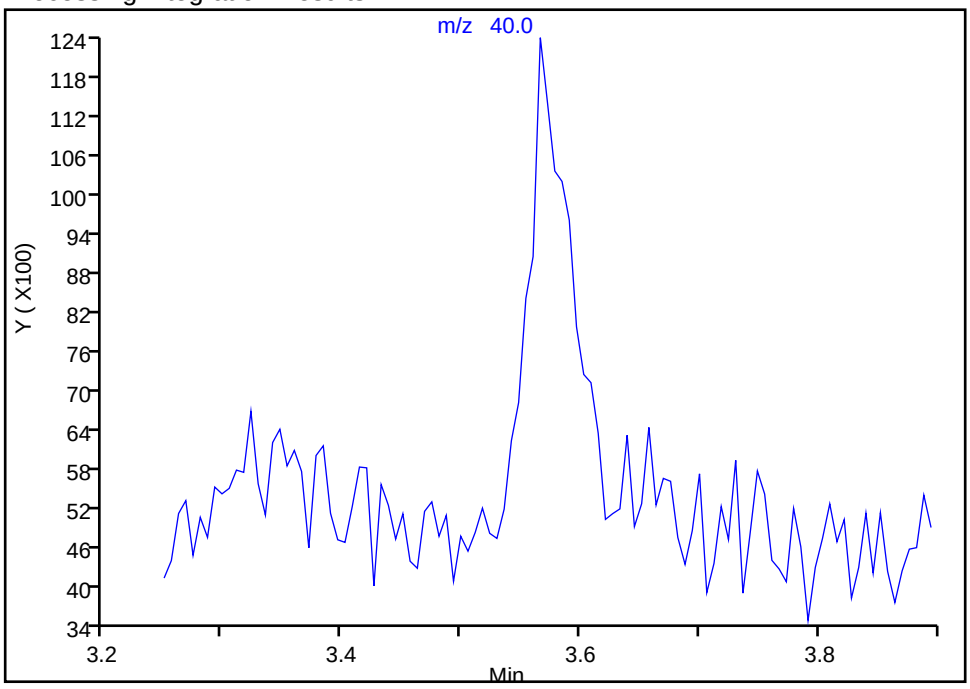
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

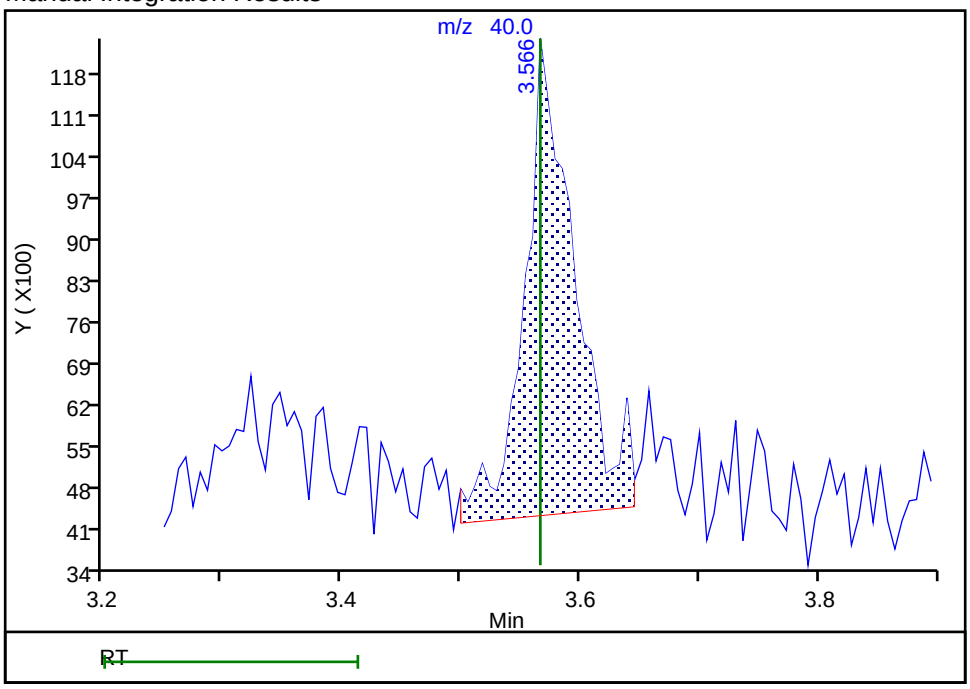
Not Detected
Expected RT: 3.57

Processing Integration Results



Manual Integration Results

RT: 3.57
Area: 23963
Amount: 237.9935
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:32:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

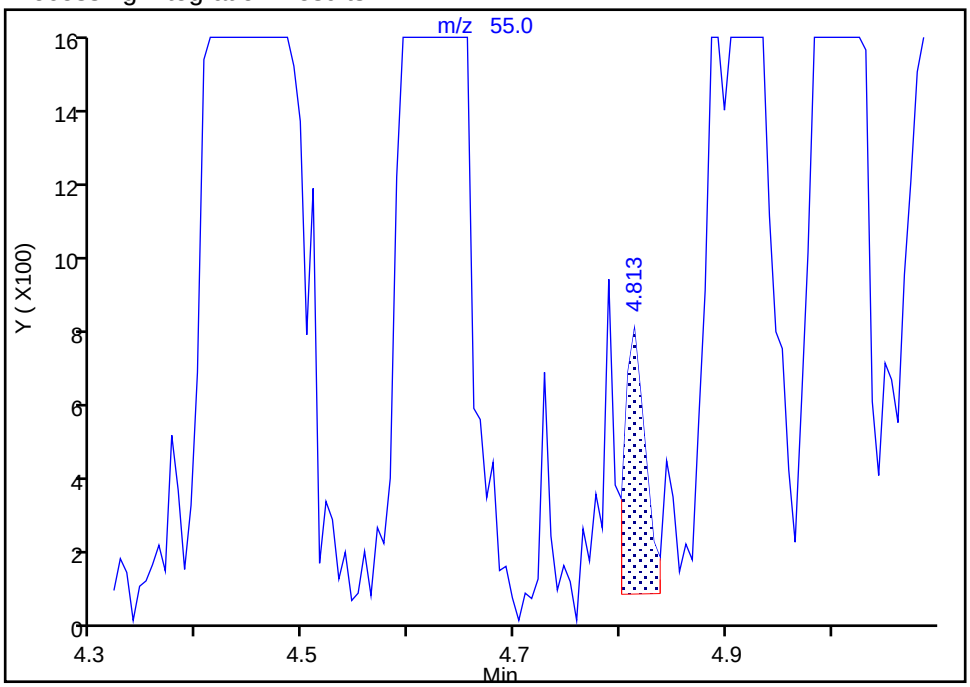
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

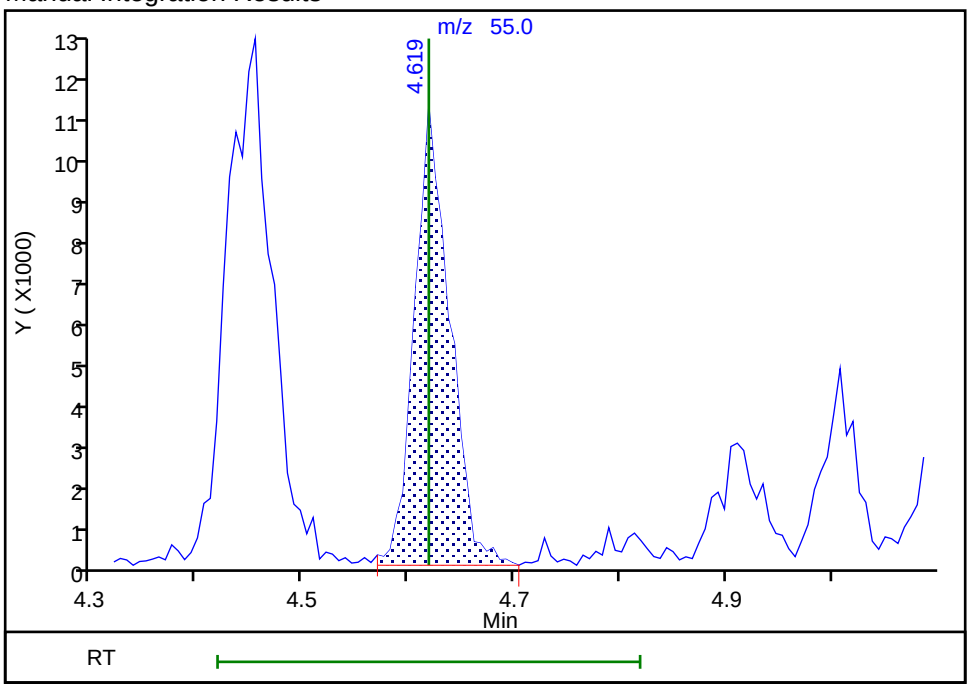
Processing Integration Results

RT: 4.81
Area: 944
Amount: 0.446413
Amount Units: ug/l



Manual Integration Results

RT: 4.62
Area: 25238
Amount: 11.934928
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:32:50
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

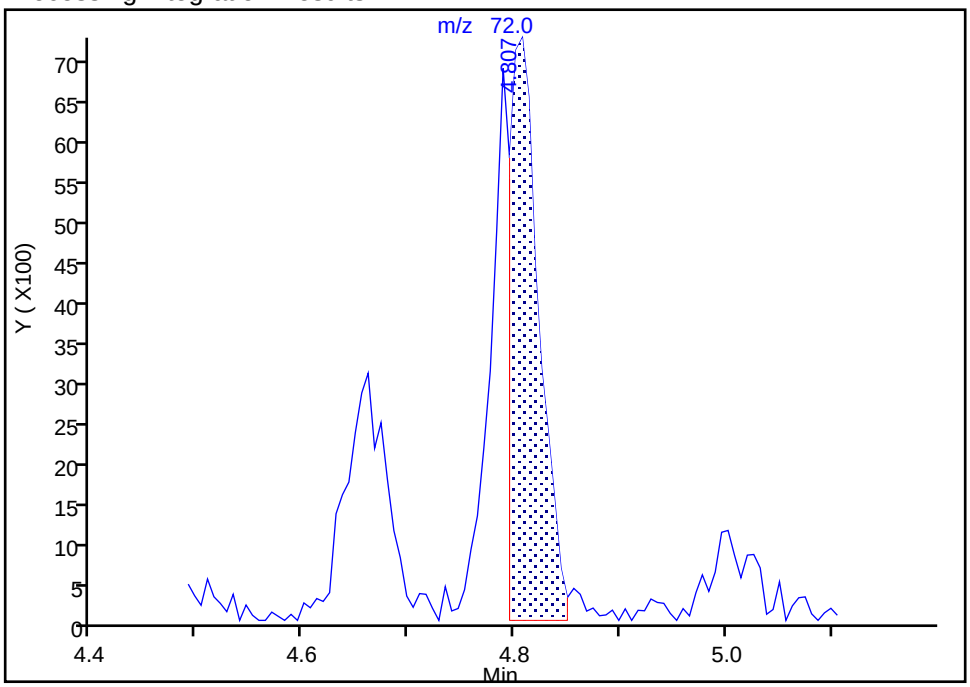
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

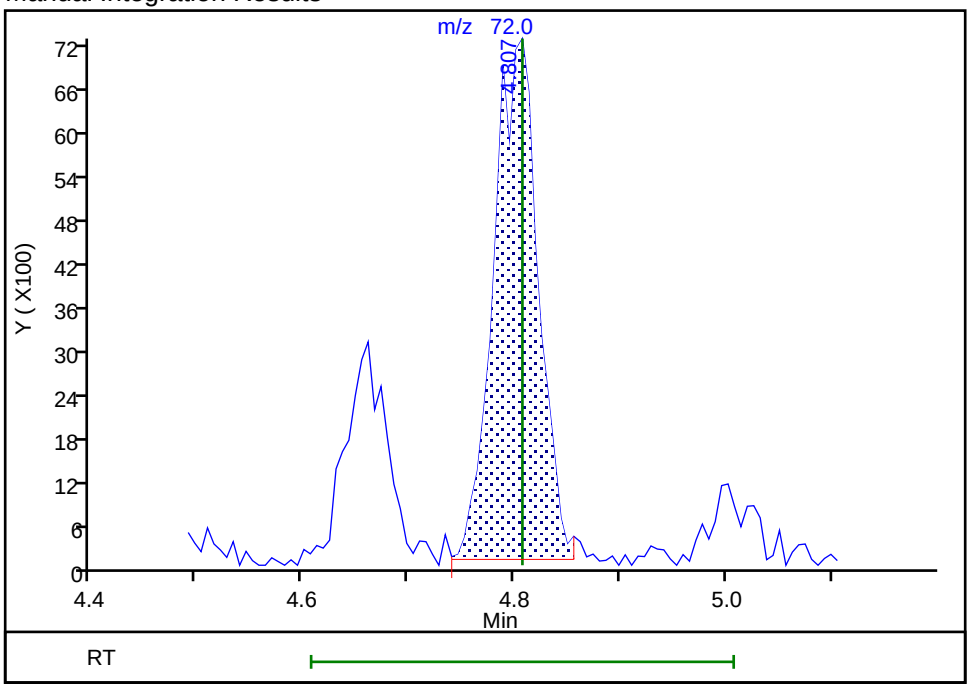
Processing Integration Results

RT: 4.81
Area: 14310
Amount: 79.193356
Amount Units: ug/l



Manual Integration Results

RT: 4.81
Area: 21127
Amount: 116.9195
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 12:48:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

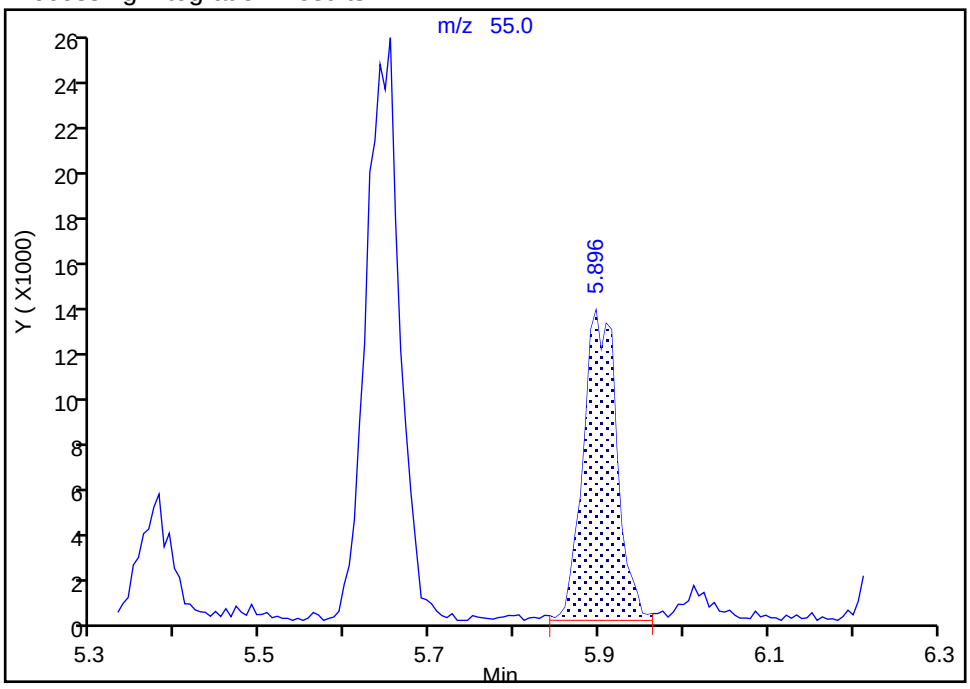
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68527.D
Injection Date: 03-Jul-2018 08:26:30 Instrument ID: CVOAMS11
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

66 Ethyl acrylate, CAS: 140-88-5

Signal: 1

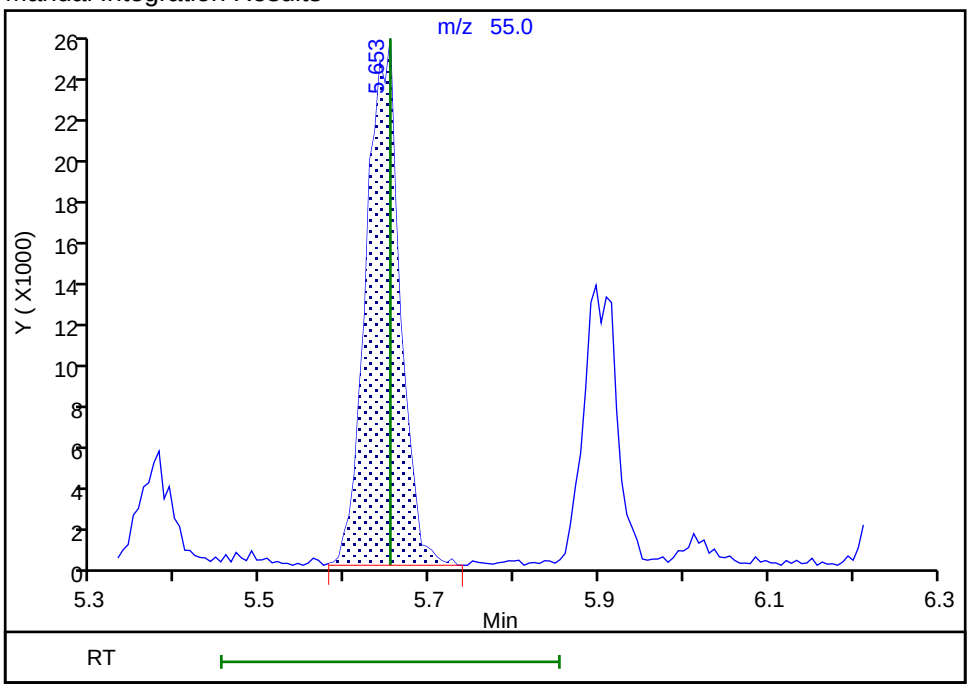
Processing Integration Results

RT: 5.90
Area: 37908
Amount: 13.157304
Amount Units: ug/l



Manual Integration Results

RT: 5.65
Area: 71642
Amount: 24.865875
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 12:48:38
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533394/3 Calibration Date: 07/04/2018 07:37

Instrument ID: CVOAMS6 Calib Start Date: 06/05/2018 02:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 05:09

Lab File ID: F67238.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.4548	0.3838		16.9	20.0	-15.6	20.0
Dichlorodifluoromethane	Ave	1.149	0.9564	0.1000	16.6	20.0	-16.8	20.0
Chloromethane	Ave	1.251	1.011	0.1000	16.2	20.0	-19.2	20.0
Butadiene	Qua2		0.9295		18.6	20.0	-7.2	20.0
Vinyl chloride	Ave	1.176	0.999	0.1000	17.0	20.0	-15.1	20.0
Bromomethane	Ave	0.7778	0.7078	0.1000	18.2	20.0	-9.0	50.0
Chloroethane	Ave	0.6790	0.6091	0.1000	17.9	20.0	-10.3	50.0
Dichlorofluoromethane	Ave	1.715	1.374		16.0	20.0	-19.9	20.0
Pentane	Ave	7.659	6.258		32.7	40.0	-18.3	20.0
Trichlorofluoromethane	Ave	1.238	1.033	0.1000	16.7	20.0	-16.5	20.0
Ethanol	QuaF		0.1181		924	800	15.5	50.0
Ethyl ether	Ave	0.5594	0.4700		16.8	20.0	-16.0	20.0
2-Methyl-1,3-butadiene	Ave	0.6575	0.5282		16.1	20.0	-19.7	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.6218	0.5703		18.3	20.0	-8.3	20.0
Acrolein	Ave	3.942	1.301		13.2	40.0	-67.0*	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.7216	0.6726	0.1000	18.6	20.0	-6.8	20.0
1,1-Dichloroethene	Ave	0.6781	0.5877	0.1000	17.3	20.0	-13.3	20.0
Acetone	Qua2		2.309	0.0500	95.5	100	-4.5	50.0
Iodomethane	Ave	1.199	1.132		18.9	20.0	-5.6	20.0
Isopropyl alcohol	Ave	1.518	1.996		263	200	31.5	50.0
Carbon disulfide	Ave	2.658	2.247	0.1000	16.9	20.0	-15.5	50.0
Allyl chloride	Ave	1.427	1.181		16.6	20.0	-17.2	20.0
Methyl acetate	Ave	0.4250	0.3741	0.1000	35.2	40.0	-12.0	20.0
Cyclopentene	Ave	1.756	1.555		17.7	20.0	-11.4	20.0
Acetonitrile	Qua2		4.291		209	200	4.4	20.0
Methylene Chloride	Ave	0.8205	0.7465	0.1000	18.2	20.0	-9.0	20.0
2-Methyl-2-propanol	Ave	2.891	2.926		202	200	1.2	50.0
Methyl tert-butyl ether	Ave	2.035	1.779	0.1000	17.5	20.0	-12.6	20.0
trans-1,2-Dichloroethene	Ave	0.7565	0.6482	0.1000	17.1	20.0	-14.3	20.0
Acrylonitrile	Ave	0.2506	0.2176		174	200	-13.2	20.0
Hexane	Ave	0.6597	0.5383		16.3	20.0	-18.4	20.0
Isopropyl ether	Ave	2.530	2.154		17.0	20.0	-14.8	20.0
1,1-Dichloroethane	Ave	1.376	1.185	0.2000	17.2	20.0	-13.9	20.0
Vinyl acetate	Ave	0.1287	0.1213		37.7	40.0	-5.8	20.0
2-Chloro-1,3-butadiene	Ave	0.6433	0.5684		17.7	20.0	-11.6	20.0
Tert-butyl ethyl ether	Ave	2.337	2.012		17.2	20.0	-13.9	20.0
2,2-Dichloropropane	Ave	0.2740	0.2519		18.4	20.0	-8.1	20.0
cis-1,2-Dichloroethene	Ave	0.8343	0.7760	0.1000	18.6	20.0	-7.0	20.0
2-Butanone (MEK)	Ave	0.8920	0.8394	0.0500	94.1	100	-5.9	50.0
Ethyl acetate	Ave	0.8734	0.7993		36.6	40.0	-8.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533394/3 Calibration Date: 07/04/2018 07:37

Instrument ID: CVOAMS6 Calib Start Date: 06/05/2018 02:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 05:09

Lab File ID: F67238.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.7334	0.5749		15.7	20.0	-21.6*	20.0
Propionitrile	Ave	4.455	4.058		182	200	-8.9	20.0
Chlorobromomethane	Ave	0.3748	0.3795		20.3	20.0	1.3	20.0
Tetrahydrofuran	Ave	1.084	1.063		39.2	40.0	-1.9	20.0
Methacrylonitrile	Ave	0.2464	0.2282		185	200	-7.4	20.0
Chloroform	Ave	1.259	1.130	0.2000	17.9	20.0	-10.3	20.0
Cyclohexane	Ave	1.103	1.018	0.1000	18.5	20.0	-7.7	50.0
1,1,1-Trichloroethane	Ave	1.113	0.9856	0.1000	17.7	20.0	-11.5	20.0
Carbon tetrachloride	Ave	0.8943	0.8489	0.1000	19.0	20.0	-5.1	20.0
1,1-Dichloropropene	Ave	0.996	0.8559		17.2	20.0	-14.1	20.0
Isobutyl alcohol	Ave	1.960	1.794		458	500	-8.5	50.0
Benzene	Ave	4.323	3.629	0.5000	16.8	20.0	-16.1	20.0
Isopropyl acetate	Ave	1.924	1.601		16.6	20.0	-16.8	20.0
Tert-amyl methyl ether	Ave	2.360	2.151		18.2	20.0	-8.9	20.0
1,2-Dichloroethane	Ave	0.9421	0.7603	0.1000	16.1	20.0	-19.3	20.0
n-Heptane	Ave	0.5370	0.4847		18.1	20.0	-9.7	20.0
n-Butanol	Qua2		0.4538		559	500	11.8	50.0
Trichloroethene	Ave	0.7385	0.6551	0.2000	17.7	20.0	-11.3	20.0
Ethyl acrylate	Ave	1.635	1.402		17.1	20.0	-14.3	20.0
Methylcyclohexane	Ave	1.283	1.195	0.1000	18.6	20.0	-6.9	50.0
1,2-Dichloropropane	Ave	0.7664	0.6734	0.1000	17.6	20.0	-12.1	20.0
Methyl methacrylate	Ave	0.1466	0.1357		37.0	40.0	-7.4	20.0
1,4-Dioxane	QuaF		2.874		282	400	-29.5	50.0
n-Propyl acetate	Ave	0.7427	0.6728		18.1	20.0	-9.4	20.0
Dibromomethane	Ave	0.4310	0.3802		17.6	20.0	-11.8	20.0
Bromodichloromethane	Ave	0.9532	0.8310	0.2000	17.4	20.0	-12.8	20.0
2-Chloroethyl vinyl ether	Ave	0.3746	0.2930		15.6	20.0	-21.8*	20.0
2-Nitropropane	Qua2		0.1059		30.4	40.0	-24.0*	20.0
Epichlorohydrin	Ave	0.7341	0.7171		391	400	-2.3	20.0
cis-1,3-Dichloropropene	Ave	1.605	1.306	0.2000	16.3	20.0	-18.7	50.0
4-Methyl-2-pentanone (MIBK)	Ave	8.099	7.476	0.0500	92.3	100	-7.7	50.0
Toluene	Ave	4.357	3.750	0.4000	17.2	20.0	-13.9	20.0
trans-1,3-Dichloropropene	Ave	1.327	1.072	0.1000	16.2	20.0	-19.2	50.0
Ethyl methacrylate	Ave	1.114	0.9384		16.8	20.0	-15.8	20.0
1,1,2-Trichloroethane	Ave	0.7404	0.6029	0.1000	16.3	20.0	-18.6	20.0
Tetrachloroethene	Ave	1.031	0.9814	0.2000	19.0	20.0	-4.8	20.0
1,3-Dichloropropane	Ave	1.388	1.183		17.1	20.0	-14.7	20.0
2-Hexanone	Qua2		4.110	0.0500	87.7	100	-12.3	50.0
n-Butyl acetate	Ave	1.327	1.091		16.4	20.0	-17.8	20.0
Dibromochloromethane	Ave	0.9023	0.8086	0.1000	17.9	20.0	-10.4	50.0
1,2-Dibromoethane	Ave	0.7693	0.6796	0.1000	17.7	20.0	-11.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533394/3 Calibration Date: 07/04/2018 07:37

Instrument ID: CVOAMS6 Calib Start Date: 06/05/2018 02:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 05:09

Lab File ID: F67238.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.628	2.471	0.5000	18.8	20.0	-6.0	20.0
Ethylbenzene	Ave	1.557	1.388	0.1000	17.8	20.0	-10.9	20.0
1,1,1,2-Tetrachloroethane	Ave	1.002	0.9273		18.5	20.0	-7.5	20.0
m-Xylene & p-Xylene	Ave	1.853	1.730	0.1000	18.7	20.0	-6.6	20.0
n-Butyl acrylate	Ave	0.7426	0.6066		16.3	20.0	-18.3	20.0
o-Xylene	Ave	1.917	1.753	0.3000	18.3	20.0	-8.6	20.0
Styrene	Ave	2.875	2.768	0.3000	19.3	20.0	-3.7	20.0
Bromoform	Ave	0.5494	0.5591	0.1000	20.4	20.0	1.8	20.0
Isopropylbenzene	Ave	4.795	4.537	0.1000	18.9	20.0	-5.4	20.0
Bromobenzene	Ave	2.047	1.900		18.6	20.0	-7.2	20.0
1,1,2,2-Tetrachloroethane	Ave	2.001	1.614	0.3000	16.1	20.0	-19.4	20.0
N-Propylbenzene	Ave	9.96	8.453		17.0	20.0	-15.1	20.0
1,2,3-Trichloropropane	Ave	0.5445	0.4506		16.6	20.0	-17.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.5016	0.3447		13.7	20.0	-31.3*	20.0
2-Chlorotoluene	Ave	7.007	5.851		16.7	20.0	-16.5	20.0
4-Ethyltoluene	Ave	8.309	7.203		17.3	20.0	-13.3	20.0
1,3,5-Trimethylbenzene	Ave	7.292	6.299		17.3	20.0	-13.6	20.0
4-Chlorotoluene	Ave	6.255	5.277		16.9	20.0	-15.6	20.0
Butyl Methacrylate	Qua2		1.920		15.3	20.0	-23.6*	20.0
tert-Butylbenzene	Ave	5.746	4.889		17.0	20.0	-14.9	20.0
1,2,4-Trimethylbenzene	Ave	7.377	6.476		17.6	20.0	-12.2	20.0
sec-Butylbenzene	Ave	8.779	7.672		17.5	20.0	-12.6	20.0
4-Isopropyltoluene	Ave	7.497	6.726		17.9	20.0	-10.3	20.0
1,3-Dichlorobenzene	Ave	4.032	3.773	0.6000	18.7	20.0	-6.4	20.0
1,4-Dichlorobenzene	Ave	4.096	3.865	0.5000	18.9	20.0	-5.7	20.0
1,2,3-Trimethylbenzene	Ave	7.781	6.717		17.3	20.0	-13.7	20.0
Benzyl chloride	Ave	3.807	3.260		17.1	20.0	-14.4	50.0
Indan	Ave	7.578	6.953		18.4	20.0	-8.2	20.0
p-Diethylbenzene	Ave	4.449	4.140		18.6	20.0	-6.9	20.0
n-Butylbenzene	Ave	4.087	3.586		17.5	20.0	-12.3	20.0
1,2-Dichlorobenzene	Ave	3.996	3.864	0.4000	19.3	20.0	-3.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	7.253	6.632		18.3	20.0	-8.6	20.0
1,2-Dibromo-3-Chloropropane	Qua2		0.3056	0.0500	16.7	20.0	-16.7	50.0
1,3,5-Trichlorobenzene	Ave	3.074	3.055		19.9	20.0	-0.6	20.0
1,2,4-Trichlorobenzene	Ave	2.650	2.743	0.2000	20.7	20.0	3.5	20.0
Hexachlorobutadiene	Ave	1.223	1.208		19.8	20.0	-1.2	20.0
Naphthalene	Ave	6.020	5.700		18.9	20.0	-5.3	50.0
1,2,3-Trichlorobenzene	Ave	2.449	2.582		21.1	20.0	5.4	20.0
Dibromofluoromethane (Surr)	Ave	0.2467	0.2537		51.4	50.0	2.9	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2995	0.2627		43.9	50.0	-12.3	20.0
Toluene-d8 (Surr)	Ave	1.453	1.350		46.5	50.0	-7.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533394/3 Calibration Date: 07/04/2018 07:37

Instrument ID: CVOAMS6 Calib Start Date: 06/05/2018 02:24

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/05/2018 05:09

Lab File ID: F67238.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4127	0.4362		52.9	50.0	5.7	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67238.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Jul-2018 07:37:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0074850-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jul-2018 06:27:14 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: tupayachia Date: 04-Jul-2018 08:09:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	87	30968	20.0	16.9	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	77177	20.0	16.6	
3 Chloromethane	50	1.747	1.747	0.000	99	81555	20.0	16.2	
5 Butadiene	54	1.829	1.829	0.000	95	75008	20.0	18.6	
4 Vinyl chloride	62	1.837	1.837	0.000	98	80590	20.0	17.0	
6 Bromomethane	94	2.108	2.108	0.000	99	57119	20.0	18.2	
7 Chloroethane	64	2.174	2.174	0.000	99	49153	20.0	17.9	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	98	110898	20.0	16.0	
10 Pentane	72	2.355	2.355	0.000	95	18221	40.0	32.7	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	57	83389	20.0	16.7	
11 Ethanol	46	2.544	2.544	0.000	72	6879	800.0	924.3	
12 Ethyl ether	59	2.544	2.544	0.000	90	37925	20.0	16.8	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	94	42624	20.0	16.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	86	46024	20.0	18.3	
15 Acrolein	56	2.724	2.724	0.000	31	3789	40.0	13.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	98	54276	20.0	18.6	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	47429	20.0	17.3	
18 Acetone	43	2.848	2.848	0.000	88	62256	100.0	95.5	
19 Iodomethane	142	2.905	2.905	0.000	97	91362	20.0	18.9	
20 Isopropyl alcohol	45	2.938	2.938	0.000	26	29058	200.0	263.0	
21 Carbon disulfide	76	2.946	2.946	0.000	99	181329	20.0	16.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	97	95317	20.0	16.6	
24 Methyl acetate	43	3.078	3.078	0.000	99	60376	40.0	35.2	
23 Cyclopentene	67	3.086	3.086	0.000	94	125504	20.0	17.7	
25 Acetonitrile	41	3.143	3.143	0.000	89	62476	200.0	208.9	
27 Methylene Chloride	84	3.185	3.185	0.000	91	60244	20.0	18.2	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	72793	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.258	3.258	0.000	91	42601	200.0	202.4	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	143582	20.0	17.5	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	52307	20.0	17.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.447	0.000	97	175559	200.0	173.6	
32 Hexane	43	3.521	3.521	0.000	92	43437	20.0	16.3	
33 Isopropyl ether	45	3.727	3.727	0.000	98	173858	20.0	17.0	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	95620	20.0	17.2	
35 Vinyl acetate	86	3.768	3.768	0.000	100	19570	40.0	37.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	45870	20.0	17.7	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	90	162371	20.0	17.2	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	67405	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	91	20327	20.0	18.4	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	62619	20.0	18.6	
42 Ethyl acetate	70	4.294	4.294	0.000	93	8620	40.0	36.6	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	96	22631	100.0	94.1	
43 Methyl acrylate	55	4.351	4.351	0.000	98	34017	20.0	15.7	a
44 Propionitrile	54	4.425	4.425	0.000	98	59084	200.0	182.2	
45 Chlorobromomethane	128	4.499	4.499	0.000	88	30627	20.0	20.3	
46 Tetrahydrofuran	72	4.499	4.499	0.000	54	11468	40.0	39.2	
47 Methacrylonitrile	67	4.516	4.516	0.000	91	184177	200.0	185.3	
48 Chloroform	83	4.549	4.549	0.000	99	91170	20.0	17.9	
49 Cyclohexane	84	4.680	4.680	0.000	92	82120	20.0	18.5	
50 1,1,1-Trichloroethane	97	4.696	4.696	0.000	98	79532	20.0	17.7	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	51191	50.0	51.4	
52 Carbon tetrachloride	117	4.811	4.811	0.000	98	68505	20.0	19.0	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	97	69069	20.0	17.2	
54 Isobutyl alcohol	43	4.992	4.992	0.000	37	65295	500.0	457.6	a
55 Benzene	78	5.033	5.033	0.000	96	214735	20.0	16.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	53006	50.0	43.9	
57 Isopropyl acetate	43	5.091	5.091	0.000	95	129171	20.0	16.6	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	173585	20.0	18.2	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	61356	20.0	16.1	
60 n-Heptane	57	5.181	5.181	0.000	90	39116	20.0	18.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	201745	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	87	16515	500.0	558.9	
63 Trichloroethene	95	5.674	5.674	0.000	98	52863	20.0	17.7	
65 Ethyl acrylate	55	5.789	5.789	0.000	95	113148	20.0	17.1	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	96423	20.0	18.6	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	92	54339	20.0	17.6	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	6889	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	87	21906	40.0	37.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	54295	20.0	18.1	
69 1,4-Dioxane	88	6.085	6.085	0.000	27	7920	400.0	281.8	
71 Dibromomethane	93	6.093	6.093	0.000	92	30677	20.0	17.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	67059	20.0	17.4	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	76	23641	20.0	15.6	
73 2-Nitropropane	41	6.570	6.570	0.000	79	17083	40.0	30.4	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	77336	400.0	390.7	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	77276	20.0	16.3	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	201567	100.0	92.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	199772	50.0	46.5	
79 Toluene	91	7.055	7.055	0.000	93	221904	20.0	17.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	63443	20.0	16.2	
81 Ethyl methacrylate	69	7.424	7.424	0.000	86	55523	20.0	16.8	
82 1,1,2-Trichloroethane	83	7.613	7.613	0.000	95	35674	20.0	16.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	58069	20.0	19.0	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	69996	20.0	17.1	
85 2-Hexanone	43	7.893	7.893	0.000	96	110814	100.0	87.7	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	64554	20.0	16.4	
87 Chlorodibromomethane	129	8.065	8.065	0.000	99	47847	20.0	17.9	
88 Ethylene Dibromide	107	8.213	8.213	0.000	100	40213	20.0	17.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	84	147928	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	146188	20.0	18.8	
91 Ethylbenzene	106	8.895	8.895	0.000	98	82143	20.0	17.8	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	54870	20.0	18.5	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	102340	20.0	18.7	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	35895	20.0	16.3	
95 o-Xylene	106	9.503	9.503	0.000	95	103713	20.0	18.3	
96 Styrene	104	9.536	9.536	0.000	96	163807	20.0	19.3	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	91	80781	20.0	15.6	
98 Bromoform	173	9.742	9.742	0.000	97	33081	20.0	20.4	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	268474	20.0	18.9	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	94	64531	50.0	52.9	
101 Bromobenzene	156	10.152	10.152	0.000	93	70058	20.0	18.6	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	59530	20.0	16.1	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	311748	20.0	17.0	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	97	16617	20.0	16.6	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	80	12711	20.0	13.7	
106 2-Chlorotoluene	91	10.292	10.292	0.000	97	215791	20.0	16.7	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	265636	20.0	17.3	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	232323	20.0	17.3	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	194625	20.0	16.9	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	70823	20.0	15.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	96	180317	20.0	17.0	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	238823	20.0	17.6	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	282937	20.0	17.5	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	248066	20.0	17.9	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	98	139159	20.0	18.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	92	92201	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	96	142535	20.0	18.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	247743	20.0	17.3	
118 Benzyl chloride	91	11.023	11.023	0.000	99	120223	20.0	17.1	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	256426	20.0	18.4	
120 p-Diethylbenzene	119	11.097	11.097	0.000	94	152694	20.0	18.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	95	132256	20.0	17.5	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	142492	20.0	19.3	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	244583	20.0	18.3	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.664	0.000	95	11272	20.0	16.7	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	98	112682	20.0	19.9	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	94	101171	20.0	20.7	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	97	44556	20.0	19.8	
128 Naphthalene	128	12.322	12.322	0.000	99	210206	20.0	18.9	
129 1,2,3-Trichlorobenzene	180	12.486	12.486	0.000	96	95218	20.0	21.1	
S 130 1,2-Dichloroethene, Total	100				0		40.0	35.7	
S 131 Xylenes, Total	100				0		40.0	37.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 05-Jul-2018 06:27:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67238.D

Injection Date: 04-Jul-2018 07:37:30 Instrument ID: CVOAMS6 Operator ID:

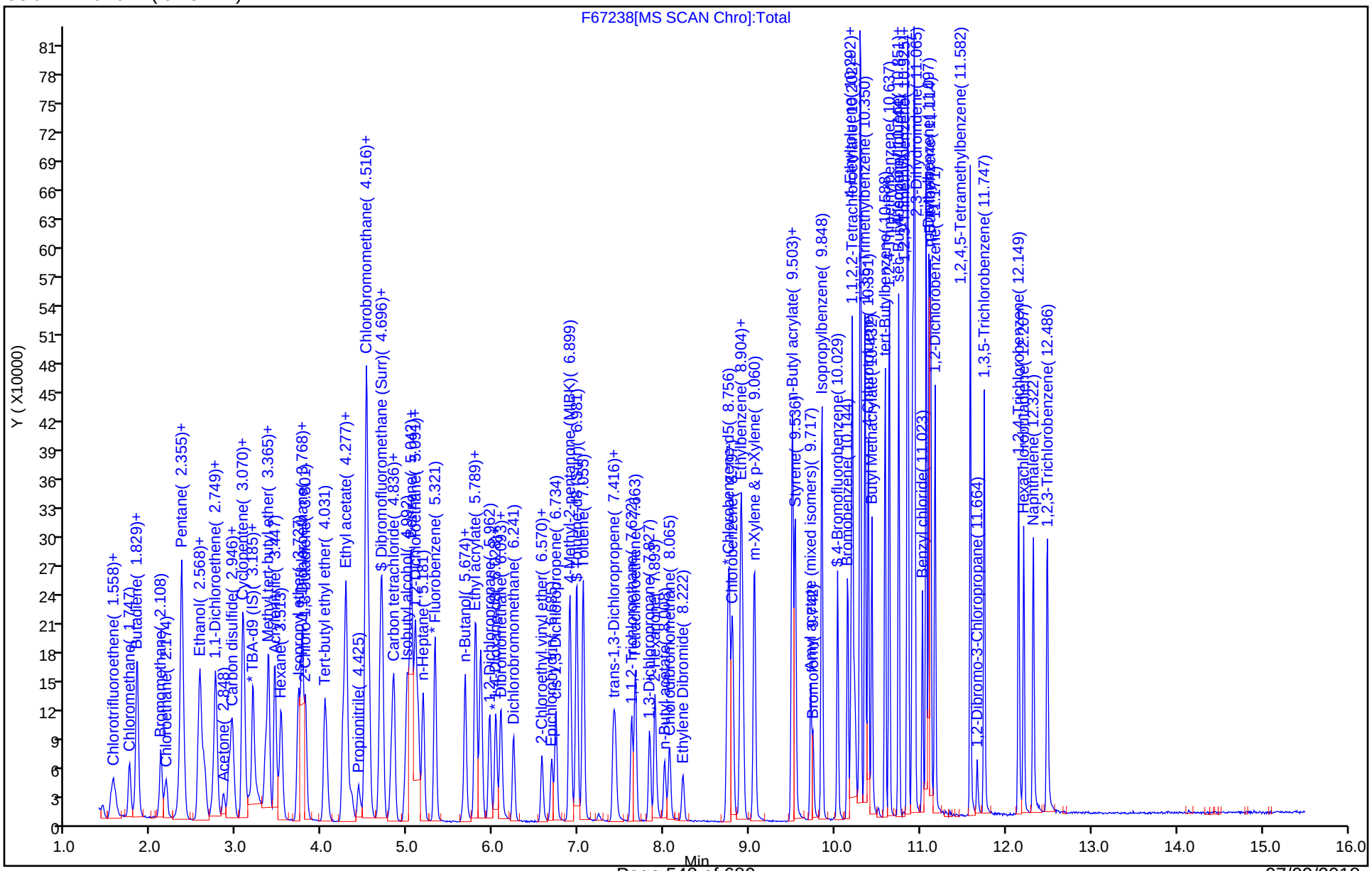
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

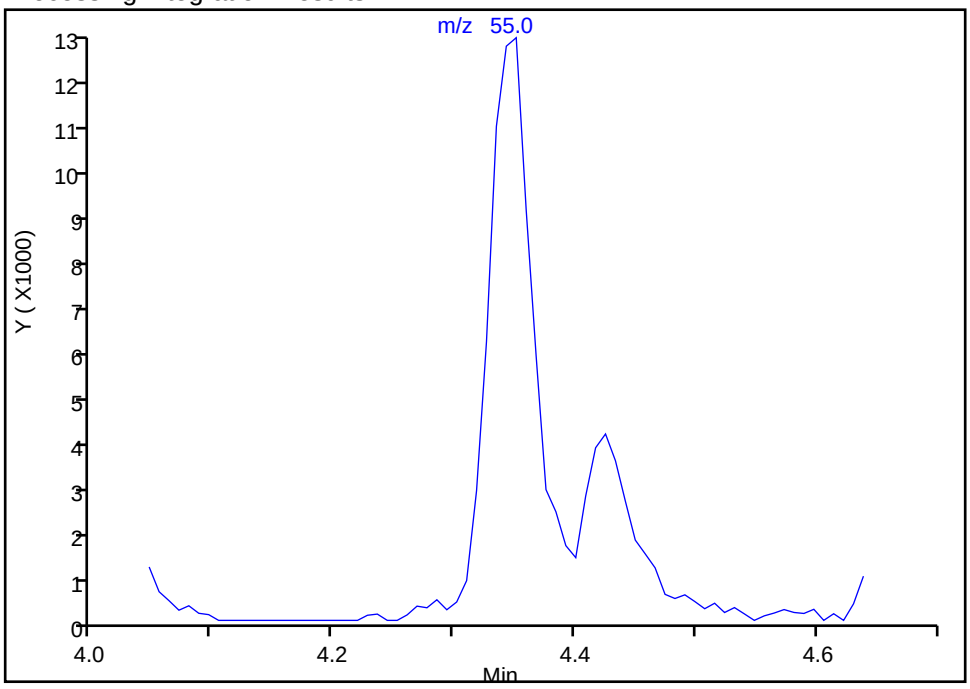
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67238.D
Injection Date: 04-Jul-2018 07:37:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

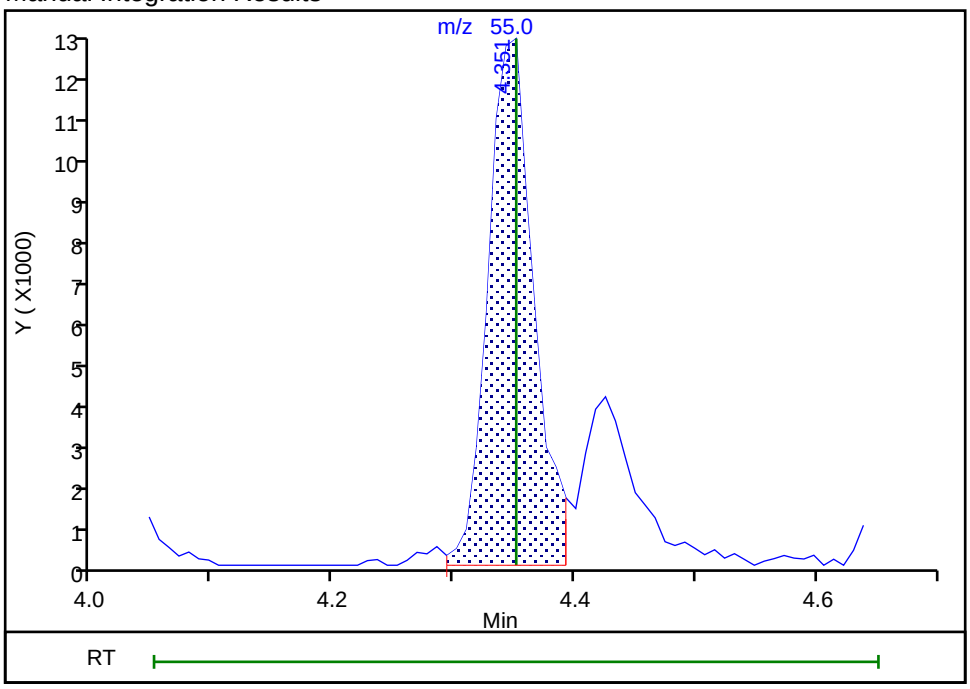
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.35
Area: 34017
Amount: 15.678321
Amount Units: ug/l



Reviewer: tupayachia, 04-Jul-2018 07:55:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

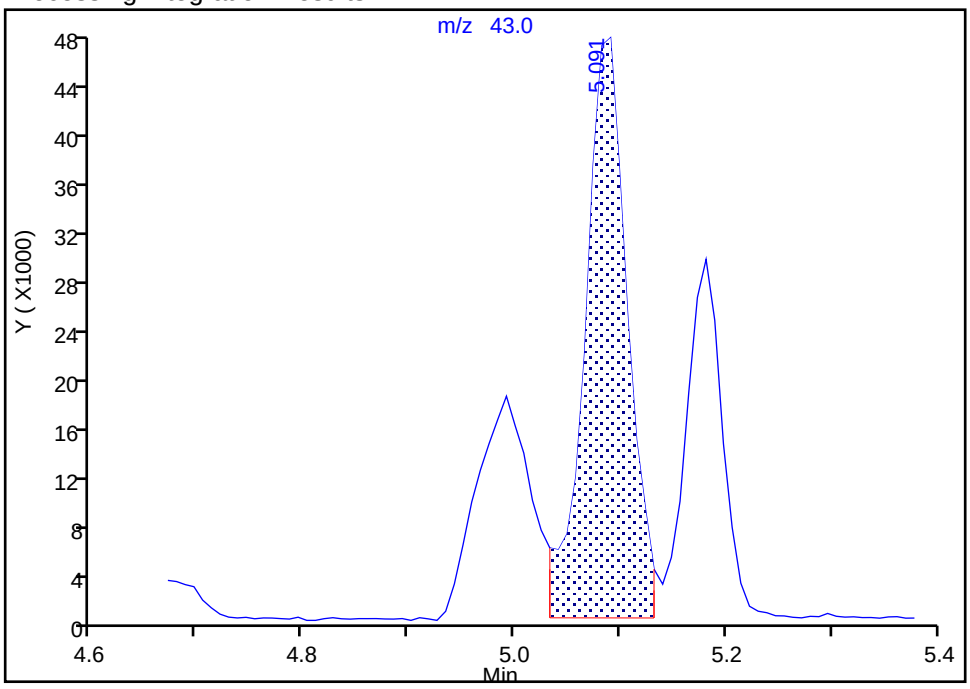
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67238.D
Injection Date: 04-Jul-2018 07:37:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

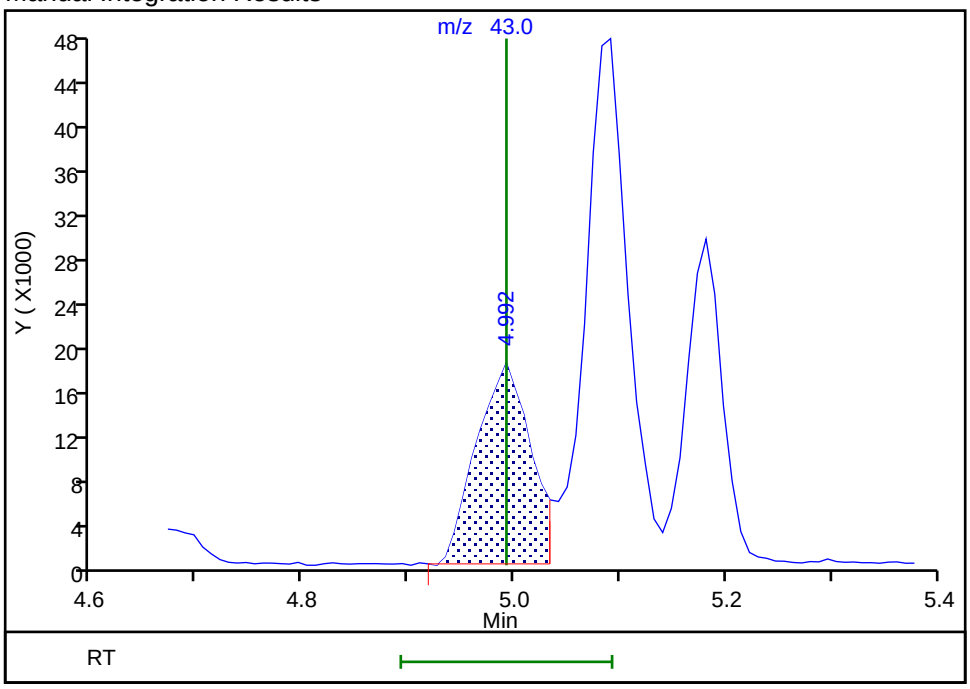
Processing Integration Results

RT: 5.09
Area: 134211
Amount: 940.6353
Amount Units: ug/l



Manual Integration Results

RT: 4.99
Area: 65295
Amount: 457.6285
Amount Units: ug/l



Reviewer: moroneyc, 05-Jul-2018 06:11:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533363/3 Calibration Date: 07/04/2018 00:34

Instrument ID: CVOAMS9 Calib Start Date: 06/07/2018 01:00

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/07/2018 03:02

Lab File ID: K86035.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2420	0.2618		21.6	20.0	8.2	20.0
Dichlorodifluoromethane	Ave	0.5426	0.6101	0.1000	22.5	20.0	12.4	20.0
Chloromethane	Ave	0.5202	0.6229	0.1000	23.9	20.0	19.7	20.0
Butadiene	Ave	0.4089	0.5136		25.1	20.0	25.6*	20.0
Vinyl chloride	Ave	0.4959	0.6125	0.1000	24.7	20.0	23.5*	20.0
Bromomethane	Ave	0.3417	0.4443	0.1000	26.0	20.0	30.0	50.0
Chloroethane	Ave	0.2404	0.3118	0.1000	25.9	20.0	29.7	50.0
Trichlorofluoromethane	Ave	0.5830	0.7201	0.1000	24.7	20.0	23.5*	20.0
Dichlorofluoromethane	Ave	0.7570	0.8348		22.1	20.0	10.3	20.0
Pentane	Ave	1.424	1.605		45.1	40.0	12.7	20.0
Ethanol	Ave	0.0628	0.0569		724	800	-9.5	50.0
Ethyl ether	Ave	0.2801	0.3005		21.5	20.0	7.3	20.0
2-Methyl-1,3-butadiene	Ave	0.3064	0.3607		23.5	20.0	17.7	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3296	0.4039		24.5	20.0	22.6*	20.0
Acrolein	Ave	1.609	1.358		253	300	-15.6	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3878	0.4688	0.1000	24.2	20.0	20.9*	20.0
1,1-Dichloroethene	Ave	0.3458	0.3739	0.1000	21.6	20.0	8.1	20.0
Acetone	QuaF		0.9244	0.0500	104	100	4.1	50.0
Iodomethane	Ave	0.6742	0.8308		24.6	20.0	23.2*	20.0
Isopropyl alcohol	Ave	0.9412	0.8597		183	200	-8.7	50.0
Carbon disulfide	Ave	1.359	1.478	0.1000	21.7	20.0	8.7	50.0
Allyl chloride	Ave	0.2343	0.2815		24.0	20.0	20.1*	20.0
Methyl acetate	Ave	6.747	7.155	0.1000	42.4	40.0	6.0	20.0
Cyclopentene	Ave	0.8859	1.034		23.3	20.0	16.7	20.0
Acetonitrile	Ave	1.701	1.818		214	200	6.9	20.0
Methylene Chloride	Ave	0.4267	0.4566	0.1000	21.4	20.0	7.0	20.0
2-Methyl-2-propanol	Ave	1.467	1.417		193	200	-3.4	50.0
Methyl tert-butyl ether	Ave	1.068	1.165	0.1000	21.8	20.0	9.0	20.0
trans-1,2-Dichloroethene	Ave	0.3947	0.4356	0.1000	22.1	20.0	10.4	20.0
Acrylonitrile	Ave	0.1323	0.1437		217	200	8.7	20.0
Hexane	Ave	0.3861	0.4054		21.0	20.0	5.0	20.0
Isopropyl ether	Ave	1.279	1.411		22.1	20.0	10.3	20.0
1,1-Dichloroethane	Ave	0.6862	0.7789	0.2000	22.7	20.0	13.5	20.0
Vinyl acetate	Ave	1.721	1.675		38.9	40.0	-2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.3334	0.3720		22.3	20.0	11.6	20.0
Tert-butyl ethyl ether	Ave	1.152	1.241		21.6	20.0	7.8	20.0
2,2-Dichloropropane	Ave	0.2007	0.2111		21.0	20.0	5.2	20.0
cis-1,2-Dichloroethene	Ave	0.4412	0.4918	0.1000	22.3	20.0	11.5	20.0
Ethyl acetate	Qua2		0.3057		36.5	40.0	-8.8	20.0
2-Butanone (MEK)	Ave	0.3562	0.3259	0.0500	91.5	100	-8.5	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533363/3 Calibration Date: 07/04/2018 00:34

Instrument ID: CVOAMS9 Calib Start Date: 06/07/2018 01:00

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/07/2018 03:02

Lab File ID: K86035.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2903	0.2993		20.6	20.0	3.1	20.0
Propionitrile	Ave	1.373	1.472		215	200	7.3	20.0
Chlorobromomethane	Ave	0.2104	0.2461		23.4	20.0	17.0	20.0
Tetrahydrofuran	Ave	0.4138	0.4182		40.4	40.0	1.1	20.0
Methacrylonitrile	Ave	0.1392	0.1497		215	200	7.5	20.0
Chloroform	Ave	0.6672	0.7829	0.2000	23.5	20.0	17.3	20.0
Cyclohexane	Ave	0.5912	0.6473	0.1000	21.9	20.0	9.5	50.0
1,1,1-Trichloroethane	Ave	0.5968	0.7130	0.1000	23.9	20.0	19.5	20.0
Carbon tetrachloride	Ave	0.5325	0.5845	0.1000	22.0	20.0	9.8	20.0
1,1-Dichloropropene	Ave	0.5168	0.5828		22.6	20.0	12.8	20.0
Isobutyl alcohol	Ave	0.0620	0.0468		378	500	-24.4	50.0
Benzene	Ave	1.882	1.894	0.5000	20.1	20.0	0.7	20.0
Isopropyl acetate	Ave	1.178	1.195		20.3	20.0	1.4	20.0
Tert-amyl methyl ether	Ave	0.3381	0.3600		21.3	20.0	6.5	20.0
1,2-Dichloroethane	Ave	0.4620	0.5312	0.1000	23.0	20.0	15.0	20.0
n-Heptane	Ave	0.3629	0.4001		22.0	20.0	10.2	20.0
n-Butanol	Ave	0.3788	0.3018		398	500	-20.3	50.0
Trichloroethene	Ave	0.3842	0.4262	0.2000	22.2	20.0	10.9	20.0
Ethyl acrylate	Ave	0.2479	0.2809		22.7	20.0	13.3	20.0
Methylcyclohexane	Ave	0.7287	0.8079	0.1000	22.2	20.0	10.9	50.0
1,2-Dichloropropane	Ave	0.3881	0.4078	0.1000	21.0	20.0	5.1	20.0
Methyl methacrylate	Ave	0.2237	0.2240		40.1	40.0	0.1	20.0
1,4-Dioxane	Ave	1.495	1.495		400	400	0.0	50.0
n-Propyl acetate	Ave	0.5213	0.5213		20.0	20.0	0.0	20.0
Dibromomethane	Ave	0.2349	0.2703		23.0	20.0	15.1	20.0
Bromodichloromethane	Ave	0.4927	0.5162	0.2000	21.0	20.0	4.8	20.0
2-Chloroethyl vinyl ether	Ave	0.2024	0.2015		19.9	20.0	-0.5	20.0
2-Nitropropane	Ave	0.0947	0.0595		25.1	40.0	-37.2*	20.0
Epichlorohydrin	Ave	0.3068	0.2836		370	400	-7.6	20.0
cis-1,3-Dichloropropene	Ave	0.7208	0.6911	0.2000	19.2	20.0	-4.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.117	3.120	0.0500	100	100	0.1	50.0
Toluene	Ave	1.929	1.939	0.4000	20.1	20.0	0.5	20.0
trans-1,3-Dichloropropene	Ave	0.6305	0.5856	0.1000	18.6	20.0	-7.1	50.0
Ethyl methacrylate	Ave	0.5820	0.4950		17.0	20.0	-14.9	20.0
1,1,2-Trichloroethane	Ave	0.3243	0.3225	0.1000	19.9	20.0	-0.6	20.0
Tetrachloroethene	Ave	0.4626	0.5405	0.2000	23.4	20.0	16.8	20.0
1,3-Dichloropropane	Ave	0.6154	0.5934		19.3	20.0	-3.6	20.0
2-Hexanone	Ave	1.951	1.907	0.0500	97.8	100	-2.2	50.0
n-Butyl acetate	Ave	0.6759	0.6288		18.6	20.0	-7.0	20.0
Dibromochloromethane	Ave	0.4594	0.3714	0.1000	16.2	20.0	-19.2	50.0
1,2-Dibromoethane	Ave	0.3871	0.3838	0.1000	19.8	20.0	-0.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Lab Sample ID: CCVIS 460-533363/3 Calibration Date: 07/04/2018 00:34

Instrument ID: CVOAMS9 Calib Start Date: 06/07/2018 01:00

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/07/2018 03:02

Lab File ID: K86035.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.211	1.245	0.5000	20.6	20.0	2.8	20.0
Ethylbenzene	Ave	0.6836	0.6792	0.1000	19.9	20.0	-0.6	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4975	0.4793		19.3	20.0	-3.7	20.0
m-Xylene & p-Xylene	Ave	0.8388	0.8280	0.1000	19.7	20.0	-1.3	20.0
n-Butyl acrylate	Ave	0.3467	0.2886		16.6	20.0	-16.8	20.0
o-Xylene	Ave	0.8706	0.8653	0.3000	19.9	20.0	-0.6	20.0
Styrene	Ave	1.379	1.375	0.3000	19.9	20.0	-0.3	20.0
Bromoform	Ave	0.2913	0.2152	0.1000	14.8	20.0	-26.1*	20.0
Isopropylbenzene	Ave	2.296	2.363	0.1000	20.6	20.0	2.9	20.0
Bromobenzene	Ave	0.9592	0.9202		19.2	20.0	-4.1	20.0
1,1,2,2-Tetrachloroethane	Ave	1.006	0.8716	0.3000	17.3	20.0	-13.3	20.0
N-Propylbenzene	Ave	4.785	4.402		18.4	20.0	-8.0	20.0
1,2,3-Trichloropropane	Ave	0.2591	0.2368		18.3	20.0	-8.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2478	0.2060		16.6	20.0	-16.9	20.0
2-Chlorotoluene	Ave	3.234	2.938		18.2	20.0	-9.2	20.0
4-Ethyltoluene	Ave	3.928	3.674		18.7	20.0	-6.5	20.0
1,3,5-Trimethylbenzene	Ave	3.497	3.169		18.1	20.0	-9.4	20.0
4-Chlorotoluene	Ave	2.752	2.478		18.0	20.0	-9.9	20.0
Butyl Methacrylate	Ave	1.186	0.9518		16.0	20.0	-19.8	20.0
tert-Butylbenzene	Ave	2.767	2.556		18.5	20.0	-7.6	20.0
1,2,4-Trimethylbenzene	Ave	3.597	3.230		18.0	20.0	-10.2	20.0
sec-Butylbenzene	Ave	4.520	4.207		18.6	20.0	-6.9	20.0
4-Isopropyltoluene	Ave	3.926	3.672		18.7	20.0	-6.5	20.0
1,3-Dichlorobenzene	Ave	1.867	1.878	0.6000	20.1	20.0	0.6	20.0
1,4-Dichlorobenzene	Ave	1.879	1.850	0.5000	19.7	20.0	-1.6	20.0
Benzyl chloride	Ave	2.068	1.653		16.0	20.0	-20.1	50.0
Indan	Ave	3.565	3.370		18.9	20.0	-5.5	20.0
p-Diethylbenzene	Ave	2.193	2.188		20.0	20.0	-0.2	20.0
n-Butylbenzene	Ave	2.126	2.031		19.1	20.0	-4.5	20.0
1,2-Dichlorobenzene	Ave	1.896	1.887	0.4000	19.9	20.0	-0.5	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.913	3.538		18.1	20.0	-9.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2097	0.1499	0.0500	14.3	20.0	-28.5	50.0
1,3,5-Trichlorobenzene	Ave	1.631	1.703		20.9	20.0	4.4	20.0
1,2,4-Trichlorobenzene	Ave	1.563	1.562	0.2000	20.0	20.0	-0.0	20.0
Hexachlorobutadiene	Ave	0.7612	0.7949		20.9	20.0	4.4	20.0
Naphthalene	Ave	3.705	3.428		18.5	20.0	-7.5	50.0
1,2,3-Trichlorobenzene	Ave	1.517	1.541		20.3	20.0	1.6	20.0
Dibromofluoromethane (Surr)	Ave	0.3413	0.3937		57.7	50.0	15.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3465	0.3923		56.6	50.0	13.2	20.0
Toluene-d8 (Surr)	Ave	1.550	1.514		48.8	50.0	-2.3	20.0
4-Bromofluorobenzene	Ave	0.4594	0.4994		54.4	50.0	8.7	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86035.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 04-Jul-2018 00:34:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074846-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:22:02 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 06-Jul-2018 01:22:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	81	51020	20.0	21.6	
2 Dichlorodifluoromethane	85	1.633	1.633	0.000	98	118888	20.0	22.5	
3 Chloromethane	50	1.815	1.815	0.000	99	121378	20.0	23.9	
4 Vinyl chloride	62	1.907	1.907	0.000	98	119346	20.0	24.7	
5 Butadiene	54	1.907	1.907	0.000	73	100078	20.0	25.1	
6 Bromomethane	94	2.212	2.212	0.000	99	86581	20.0	26.0	
7 Chloroethane	64	2.279	2.279	0.000	99	60754	20.0	25.9	
8 Trichlorofluoromethane	101	2.456	2.456	0.000	70	140316	20.0	24.7	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	162676	20.0	22.1	
10 Pentane	72	2.498	2.498	0.000	96	24144	40.0	45.1	
12 Ethanol	46	2.681	2.681	0.000	83	17102	800.0	723.9	
11 Ethyl ether	59	2.693	2.693	0.000	95	58559	20.0	21.5	
13 2-Methyl-1,3-butadiene	53	2.718	2.718	0.000	96	70291	20.0	23.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	89	78706	20.0	24.5	
15 Acrolein	56	2.876	2.876	0.000	97	153226	300.0	253.3	
16 1,1,2-Trichloro-1,2,2-trif	101	2.901	2.901	0.000	87	91361	20.0	24.2	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	97	72865	20.0	21.6	
18 Acetone	43	2.998	2.998	0.000	86	112650	100.0	104.1	
19 Iodomethane	142	3.071	3.071	0.000	98	161903	20.0	24.6	
22 Isopropyl alcohol	45	3.090	3.090	0.000	30	64655	200.0	182.7	a
20 Carbon disulfide	76	3.114	3.114	0.000	99	287926	20.0	21.7	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	96	54849	20.0	24.0	
23 Methyl acetate	43	3.242	3.242	0.000	99	107610	40.0	42.4	
24 Cyclopentene	67	3.260	3.260	0.000	94	201514	20.0	23.3	
29 Acetonitrile	41	3.309	3.309	0.000	95	136714	200.0	213.7	a
26 Methylene Chloride	84	3.370	3.370	0.000	95	88973	20.0	21.4	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	376020	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.425	3.425	0.000	91	106588	200.0	193.2	
28 Methyl tert-butyl ether	73	3.528	3.528	0.000	97	226943	20.0	21.8	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	95	84891	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.632	0.000	94	280050	200.0	217.3	
32 Hexane	43	3.711	3.711	0.000	94	79008	20.0	21.0	
33 Isopropyl ether	45	3.919	3.919	0.000	95	275005	20.0	22.1	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	73	151786	20.0	22.7	
35 Vinyl acetate	86	3.967	3.967	0.000	100	25200	40.0	38.9	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	92	72492	20.0	22.3	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	241849	20.0	21.6	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	304673	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	92	41130	20.0	21.0	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	95828	20.0	22.3	
41 Ethyl acetate	70	4.498	4.498	0.000	93	14903	40.0	36.5	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	96	39718	100.0	91.5	
44 Methyl acrylate	55	4.559	4.559	0.000	98	58324	20.0	20.6	
43 Propionitrile	54	4.644	4.644	0.000	98	110733	200.0	214.5	
45 Tetrahydrofuran	72	4.729	4.729	0.000	63	20387	40.0	40.4	
46 Chlorobromomethane	128	4.729	4.729	0.000	78	47951	20.0	23.4	
47 Methacrylonitrile	67	4.742	4.742	0.000	94	291653	200.0	215.0	
48 Chloroform	83	4.778	4.778	0.000	99	152560	20.0	23.5	
49 Cyclohexane	84	4.918	4.918	0.000	94	126138	20.0	21.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	97	138939	20.0	23.9	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	191805	50.0	57.7	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	113899	20.0	22.0	
56 Isobutyl alcohol	74	5.187	5.187	0.000	94	8807	500.0	378.0	a
53 1,1-Dichloropropene	75	5.077	5.077	0.000	97	113576	20.0	22.6	
54 Benzene	78	5.278	5.278	0.000	96	322305	20.0	20.1	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	191135	50.0	56.6	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	232863	20.0	20.3	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	95	70161	20.0	21.3	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	96	103520	20.0	23.0	
60 n-Heptane	57	5.418	5.418	0.000	95	77962	20.0	22.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	487170	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	92	56732	500.0	398.3	
63 Trichloroethene	95	5.930	5.930	0.000	97	83046	20.0	22.2	
64 Ethyl acrylate	56	6.052	6.052	0.000	98	54738	20.0	22.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	93	157429	20.0	22.2	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	92	79460	20.0	21.0	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	31112	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	89	87306	40.0	40.1	
69 1,4-Dioxane	88	6.327	6.327	0.000	85	18610	400.0	400.0	
70 n-Propyl acetate	43	6.327	6.327	0.000	99	101593	20.0	20.0	
71 Dibromomethane	93	6.351	6.351	0.000	96	52668	20.0	23.0	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	100590	20.0	21.0	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	80	39270	20.0	19.9	
74 2-Nitropropane	41	6.833	6.833	0.000	78	23193	40.0	25.1	
75 Epichlorohydrin	57	6.942	6.942	0.000	100	138226	400.0	369.7	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	92	117593	20.0	19.2	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	98	380263	100.0	100.1	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	643835	50.0	48.8	
79 Toluene	91	7.327	7.327	0.000	93	329889	20.0	20.1	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	99632	20.0	18.6	
81 Ethyl methacrylate	69	7.692	7.692	0.000	90	84229	20.0	17.0	
82 1,1,2-Trichloroethane	83	7.893	7.893	0.000	96	54871	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.948	7.948	0.000	97	91970	20.0	23.4	
84 1,3-Dichloropropane	76	8.107	8.107	0.000	94	100959	20.0	19.3	
85 2-Hexanone	43	8.156	8.156	0.000	98	232463	100.0	97.8	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	106993	20.0	18.6	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	63189	20.0	16.2	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	65300	20.0	19.8	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	85	425368	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	96	211751	20.0	20.6	
92 Ethylbenzene	106	9.186	9.186	0.000	98	115563	20.0	19.9	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	81546	20.0	19.3	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	140889	20.0	19.7	
94 n-Butyl acrylate	73	9.765	9.765	0.000	97	49108	20.0	16.6	
95 o-Xylene	106	9.802	9.802	0.000	94	147235	20.0	19.9	
96 Styrene	104	9.832	9.832	0.000	97	234022	20.0	19.9	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	90	127526	20.0	16.4	
98 Bromoform	173	10.070	10.070	0.000	96	36621	20.0	14.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	402109	20.0	20.6	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	212419	50.0	54.4	
101 Bromobenzene	156	10.545	10.545	0.000	93	98294	20.0	19.2	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.582	0.000	98	93109	20.0	17.3	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	470205	20.0	18.4	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	25296	20.0	18.3	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	91	22000	20.0	16.6	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	392477	20.0	18.7	
106 2-Chlorotoluene	91	10.728	10.728	0.000	91	313857	20.0	18.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	338535	20.0	18.1	
109 4-Chlorotoluene	91	10.838	10.838	0.000	98	264727	20.0	18.0	
110 Butyl Methacrylate	87	10.881	10.881	0.000	93	101670	20.0	16.0	
111 tert-Butylbenzene	119	11.088	11.088	0.000	94	273010	20.0	18.5	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	98	345036	20.0	18.0	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	449387	20.0	18.6	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	392230	20.0	18.7	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	97	200577	20.0	20.1	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	94	267052	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	197590	20.0	19.7	
118 Benzyl chloride	91	11.655	11.655	0.000	99	176549	20.0	16.0	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	360030	20.0	18.9	
120 p-Diethylbenzene	119	11.759	11.759	0.000	92	233775	20.0	20.0	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	216978	20.0	19.1	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	201518	20.0	19.9	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	377940	20.0	18.1	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	94	16016	20.0	14.3	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	181864	20.0	20.9	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	166851	20.0	20.0	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	84912	20.0	20.9	
128 Naphthalene	128	13.319	13.319	0.000	99	366131	20.0	18.5	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	164567	20.0	20.3	
S 130 1,2-Dichloroethene, Total	100				0		40.0	44.4	
S 131 Xylenes, Total	100				0		40.0	39.6	
S 132 Total BTEX	1				0		100.0	99.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

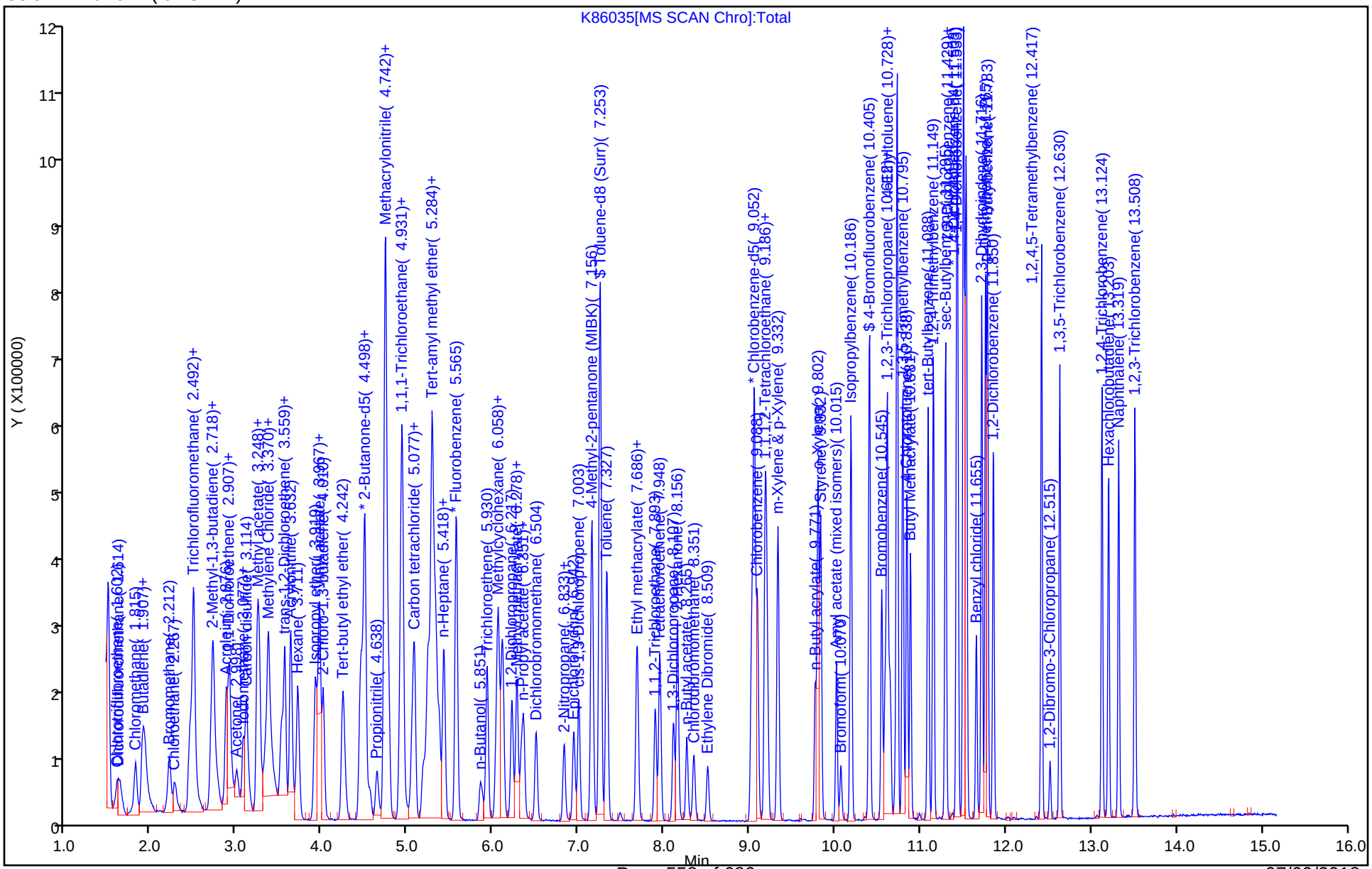
Report Date: 06-Jul-2018 01:22:04 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86035.D

Injection Date:	04-Jul-2018 00:34:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

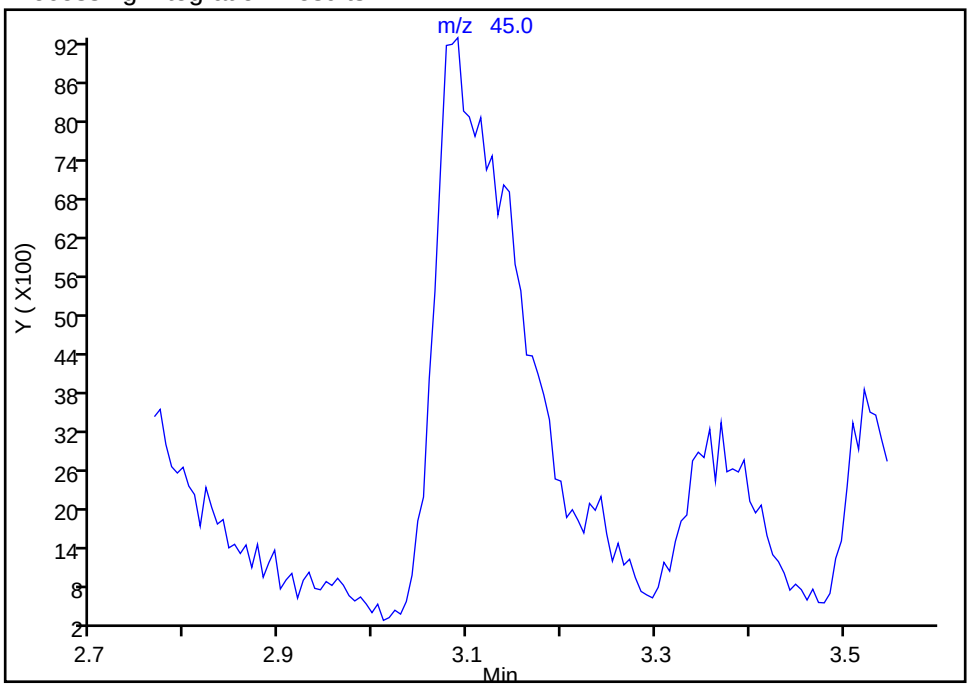
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86035.D
Injection Date: 04-Jul-2018 00:34:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

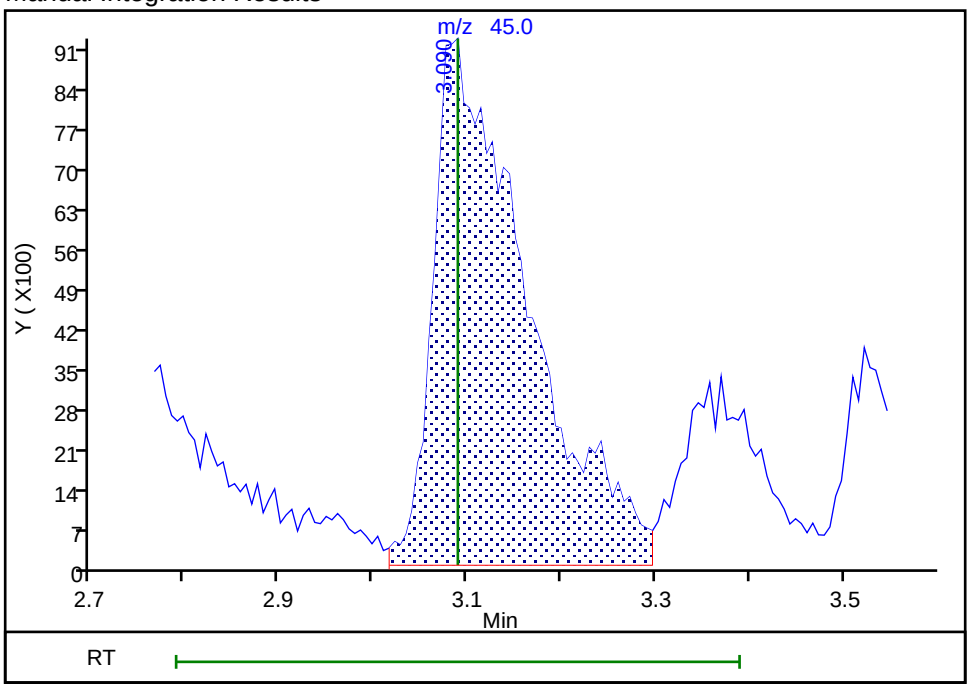
Not Detected
Expected RT: 3.09

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 64655
Amount: 182.6861
Amount Units: ug/l



Reviewer: starzecm, 04-Jul-2018 10:54:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

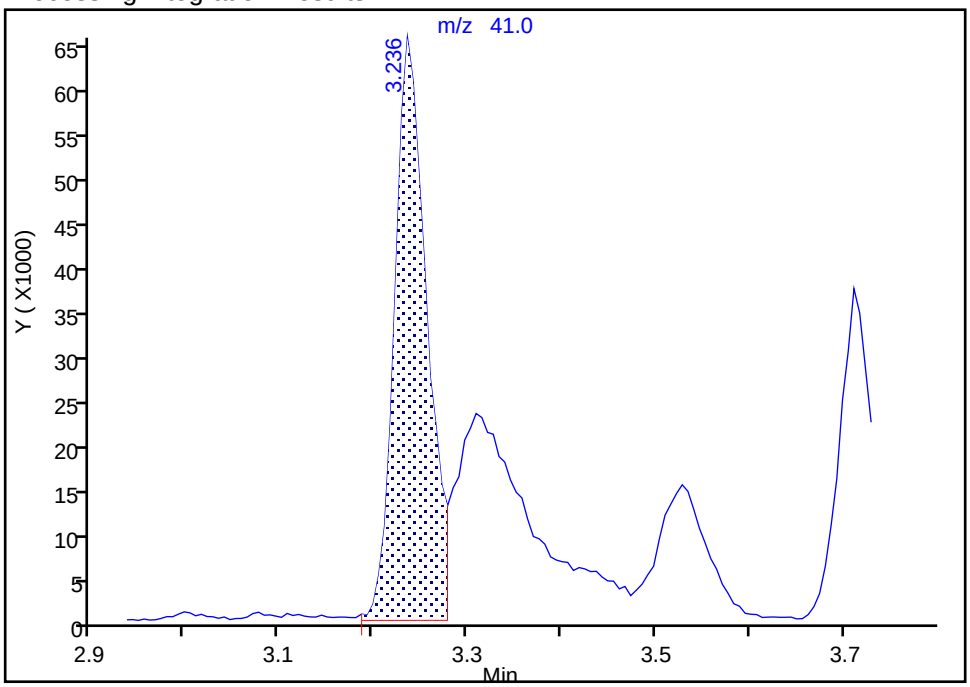
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86035.D
Injection Date: 04-Jul-2018 00:34:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

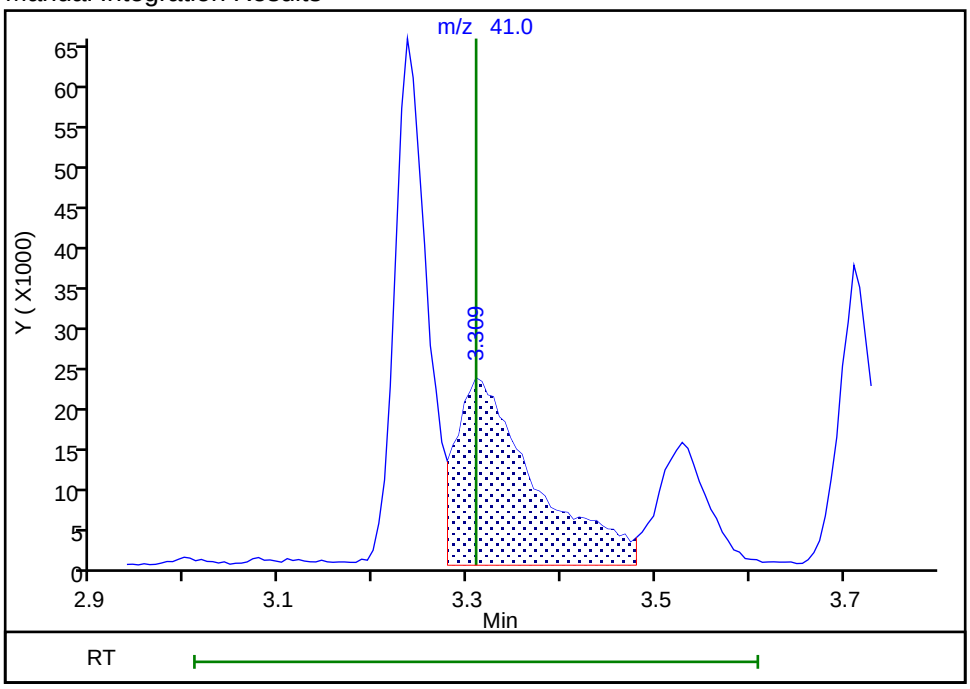
Processing Integration Results

RT: 3.24
Area: 156408
Amount: 244.5232
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 136714
Amount: 213.7342
Amount Units: ug/l



Reviewer: starzecm, 04-Jul-2018 10:54:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

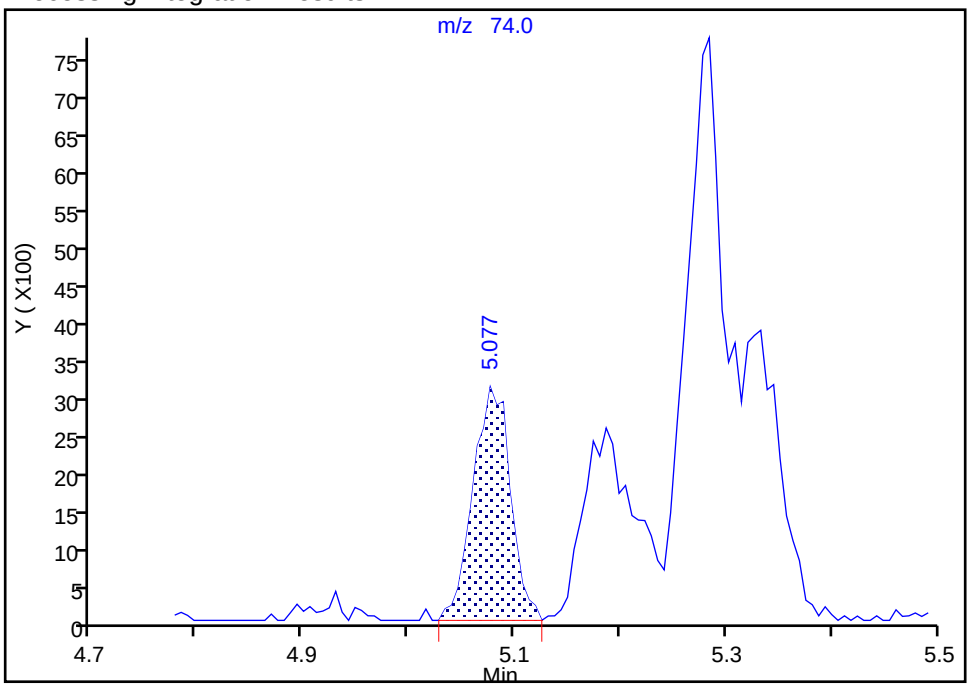
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86035.D
Injection Date: 04-Jul-2018 00:34:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

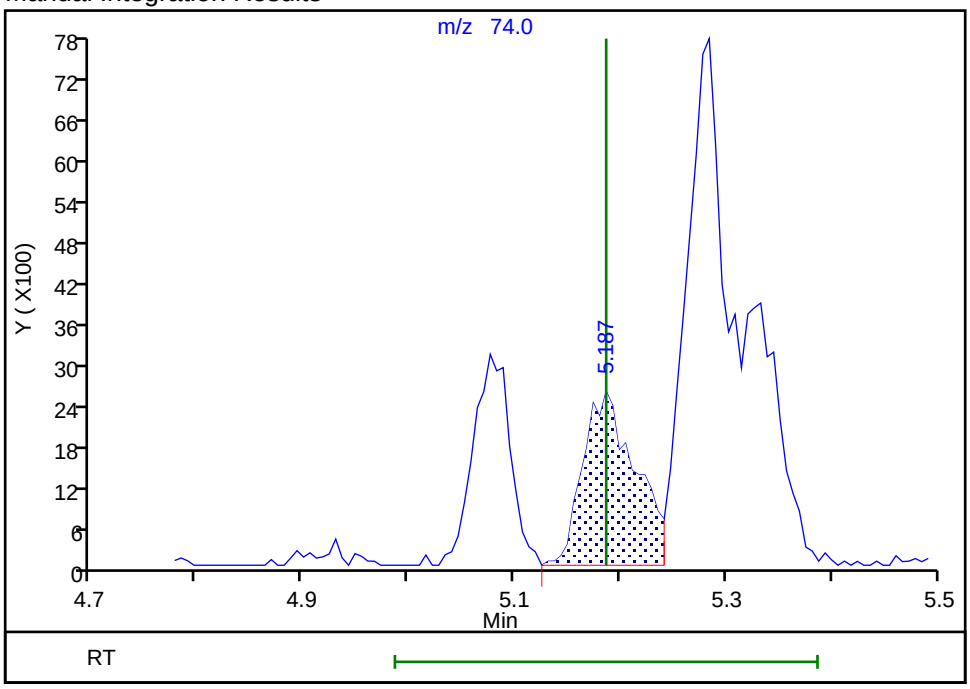
Processing Integration Results

RT: 5.08
Area: 7569
Amount: 324.8609
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 8807
Amount: 377.9957
Amount Units: ug/l



Reviewer: delpolitov, 06-Jul-2018 01:21:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672370.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 05-Jun-2018 08:14:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0073222-001
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jun-2018 14:49:41 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: tupayachia Date: 05-Jun-2018 08:23:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 135 BFB	95	3.275	3.275	0.000	91	43079	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

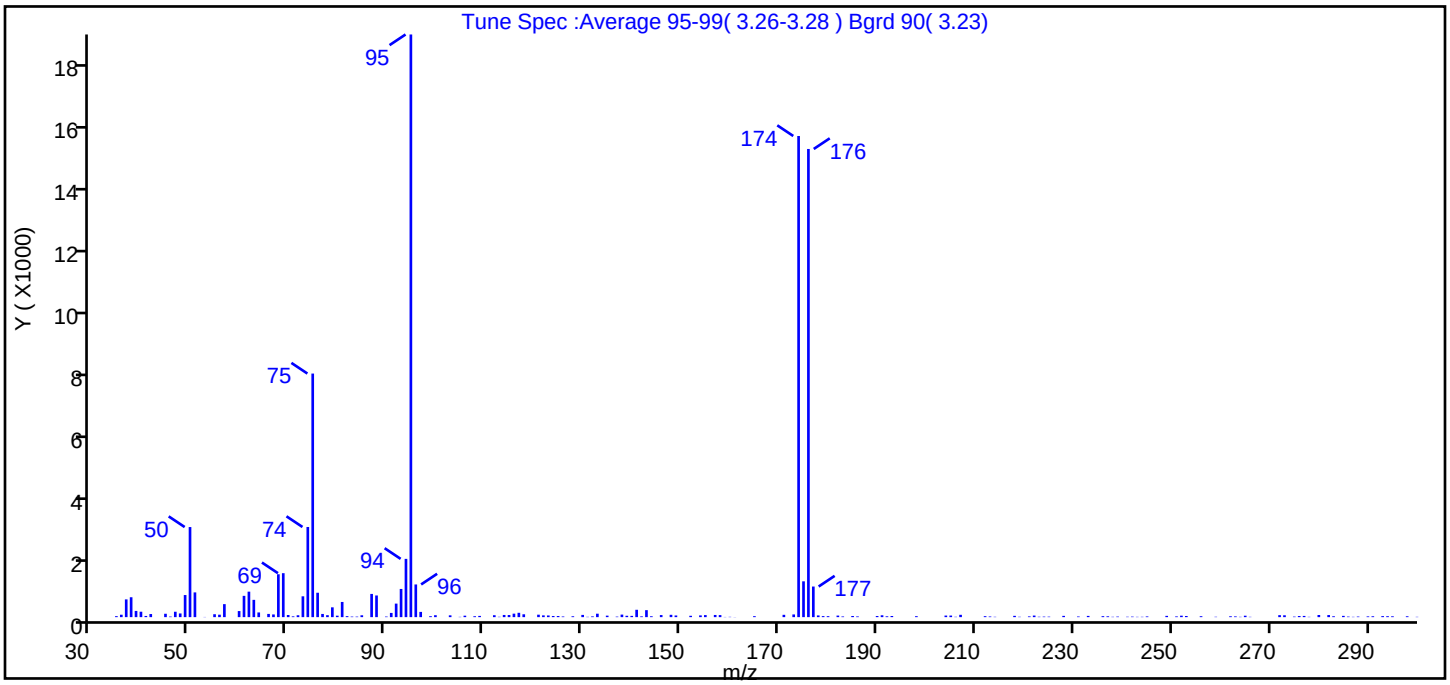
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672370.D
Injection Date: 05-Jun-2018 08:14:30 Instrument ID: CVOAMS11
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	41.8
96	5 to 9% of m/z 95	5.6
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	82.6
175	5 to 9% of m/z 174	6.1 (7.4)
176	Greater than 95% but less than 101% of m/z 174	80.3 (97.3)
177	5 to 9% of m/z 176	5.3 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672370.D\8260W_11.rslt\spectra.d
Injection Date: 05-Jun-2018 08:14:30
Spectrum: Tune Spec :Average 95-99(3.26-3.28) Bgrd 90(3.23)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	32	87.00	748	146.00	67	228.00	41
36.00	78	88.00	698	148.00	75	231.00	21
37.00	572	90.00	19	149.00	54	233.00	40
38.00	641	91.00	136	152.00	44	236.00	31
39.00	200	92.00	436	154.00	56	237.00	27
40.00	175	93.00	908	155.00	66	238.00	11
41.00	38	94.00	1877	157.00	70	239.00	18
42.00	100	95.00	18768	158.00	66	241.00	13
45.00	109	96.00	1053	159.00	6	242.00	17
46.00	18	97.00	169	160.00	10	243.00	10
47.00	174	99.00	30	161.00	4	244.00	11
48.00	119	100.00	62	165.00	31	245.00	23
49.00	712	103.00	58	171.00	75	249.00	41
50.00	2902	105.00	9	173.00	87	251.00	24
51.00	797	106.00	47	174.00	15498	252.00	47
53.00	6	108.00	29	175.00	1154	253.00	37
55.00	94	109.00	40	176.00	15080	256.00	30
56.00	79	112.00	62	177.00	986	259.00	12
57.00	419	113.00	11	178.00	55	262.00	28
60.00	196	114.00	70	179.00	33	263.00	24
61.00	686	115.00	68	180.00	31	264.00	10
62.00	821	116.00	112	182.00	50	265.00	46
63.00	557	117.00	140	183.00	22	266.00	10
64.00	151	118.00	92	185.00	37	272.00	64
66.00	104	121.00	79	186.00	23	273.00	60
67.00	87	122.00	57	190.00	36	275.00	17
68.00	1381	123.00	54	191.00	60	276.00	36
69.00	1416	124.00	36	192.00	27	277.00	39
70.00	69	125.00	36	193.00	37	278.00	10
71.00	25	126.00	21	198.00	31	280.00	69
72.00	61	128.00	28	204.00	51	282.00	67
73.00	671	130.00	72	205.00	51	283.00	28
74.00	2904	131.00	10	206.00	11	285.00	41

Report Date: 05-Jun-2018 14:49:42 Chrom Revision: 2.2 11-May-2018 08:54:46
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672370.D\8260W_11.rslt\spectra.d
Injection Date: 05-Jun-2018 08:14:30
Spectrum: Tune Spec :Average 95-99(3.26-3.28) Bgrd 90(3.23)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 175

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	7846	132.00	24	207.00	75	286.00	18
76.00	786	133.00	111	212.00	31	287.00	10
77.00	103	135.00	48	213.00	21	288.00	19
78.00	63	137.00	17	214.00	11	290.00	24
79.00	316	138.00	82	218.00	42	291.00	28
80.00	47	139.00	44	219.00	12	293.00	33
81.00	489	140.00	41	221.00	24	294.00	30
82.00	32	141.00	237	222.00	51	295.00	27
83.00	18	142.00	25	223.00	13	298.00	28
84.00	17	143.00	225	224.00	17	300.00	10
85.00	60	144.00	28	225.00	16		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68525.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Jul-2018 07:18:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074795-001
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 12:45:57 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:45:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 135 BFB	95	3.263	3.263	0.000	89	48283	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

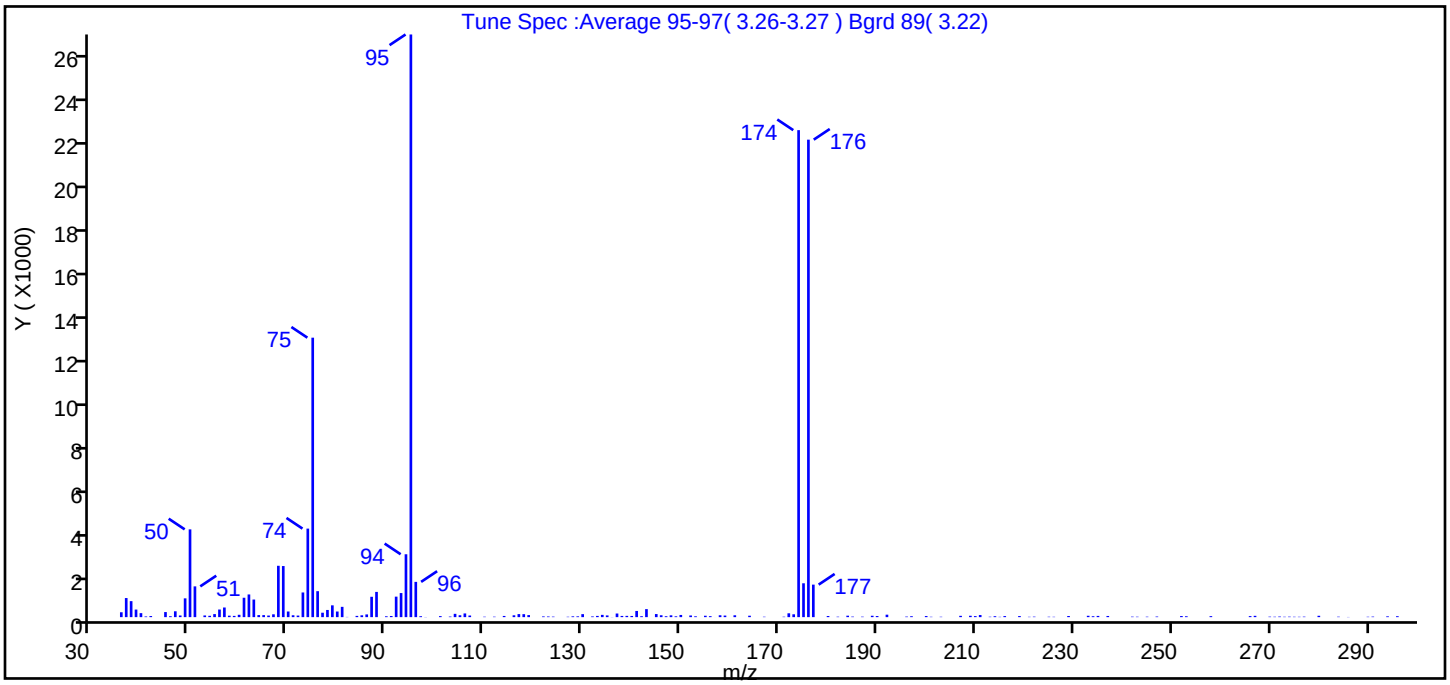
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68525.D
Injection Date: 03-Jul-2018 07:18:30 Instrument ID: CVOAMS11
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.1
75	30 to 60% of m/z 95	48.0
96	5 to 9% of m/z 95	6.1
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	83.6
175	5 to 9% of m/z 174	5.8 (7.0)
176	Greater than 95% but less than 101% of m/z 174	81.9 (98.0)
177	5 to 9% of m/z 176	5.6 (6.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68525.D\8260W_11.rslt\spectra.d
Injection Date: 03-Jul-2018 07:18:30
Spectrum: Tune Spec :Average 95-97(3.26-3.27) Bgrd 89(3.22)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 168

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	226	81.00	476	138.00	56	207.00	61
37.00	883	82.00	10	139.00	59	209.00	64
38.00	740	84.00	58	140.00	55	210.00	48
39.00	351	85.00	85	141.00	286	211.00	97
40.00	185	86.00	126	142.00	43	213.00	19
41.00	31	87.00	941	143.00	371	214.00	43
42.00	51	88.00	1167	145.00	143	215.00	14
45.00	235	90.00	40	146.00	87	216.00	49
46.00	42	91.00	53	147.00	42	219.00	50
47.00	271	92.00	948	148.00	84	221.00	16
48.00	76	93.00	1114	149.00	38	222.00	23
49.00	869	94.00	2908	150.00	101	225.00	19
50.00	4059	95.00	26944	152.00	77	226.00	16
51.00	1423	96.00	1631	153.00	39	229.00	52
53.00	78	97.00	43	155.00	65	233.00	63
54.00	62	98.00	7	156.00	45	234.00	42
55.00	141	101.00	47	157.00	1	235.00	57
56.00	353	103.00	27	158.00	87	237.00	54
57.00	446	104.00	153	159.00	73	242.00	23
58.00	68	105.00	87	161.00	86	243.00	20
59.00	58	106.00	171	164.00	66	245.00	21
60.00	109	107.00	75	167.00	19	247.00	28
61.00	897	110.00	20	171.00	20	252.00	51
62.00	1049	112.00	21	172.00	178	253.00	41
63.00	814	114.00	55	173.00	132	258.00	46
64.00	95	116.00	86	174.00	22520	266.00	48
65.00	94	117.00	141	175.00	1566	267.00	61
66.00	74	118.00	138	176.00	22080	270.00	23
67.00	131	119.00	95	177.00	1504	271.00	19
68.00	2375	122.00	33	180.00	52	272.00	28
69.00	2363	123.00	30	182.00	21	273.00	18
70.00	261	124.00	24	184.00	67	274.00	23
71.00	87	127.00	18	185.00	25	275.00	18

Report Date: 03-Jul-2018 12:45:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68525.D\8260W_11.rslt\spectra.d
Injection Date: 03-Jul-2018 07:18:30
Spectrum: Tune Spec :Average 95-97(3.26-3.27) Bgrd 89(3.22)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 168

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	73	128.00	37	187.00	22	276.00	17
73.00	1141	129.00	37	189.00	64	277.00	23
74.00	4094	130.00	139	190.00	51	280.00	63
75.00	12923	132.00	33	192.00	114	284.00	21
76.00	1201	133.00	57	196.00	26	286.00	8
77.00	205	134.00	105	197.00	42	290.00	18
78.00	332	135.00	79	200.00	51	291.00	25
79.00	546	136.00	5	201.00	17	294.00	37
80.00	260	137.00	168	203.00	18	296.00	43

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65703.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	05-Jun-2018 01:01:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0073199-001				
Operator ID:		Instrument ID:	CVOAMS6		
Method:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\8260624W6.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	06-Jun-2018 12:17:12	Calib Date:	05-Jun-2018 05:09:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK029				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.408	3.408	0.000	86	80797	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

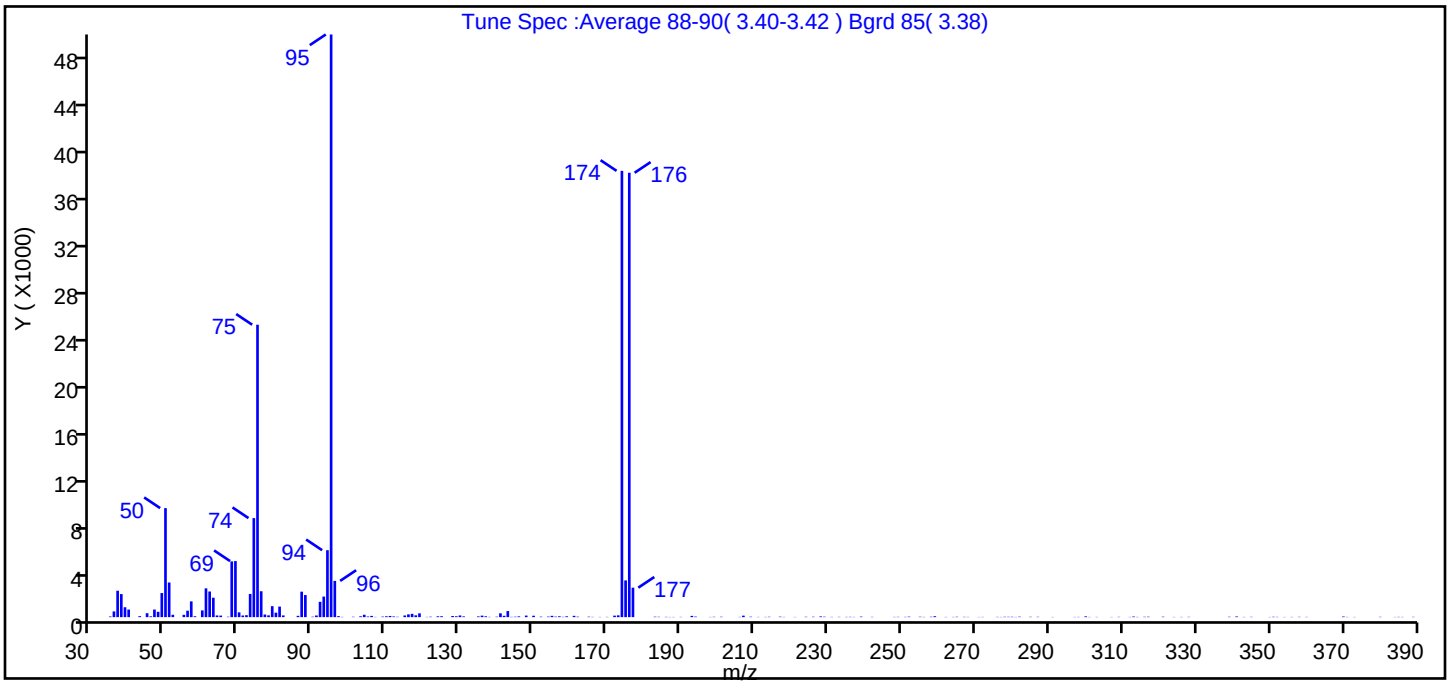
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65703.D
Injection Date: 05-Jun-2018 01:01:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.7
75	30 to 60% of m/z 95	50.2
96	5 to 9% of m/z 95	6.2
173	Less than 2% of m/z 174	0.3 (0.4)
174	50 to 120% of m/z 95	76.6
175	5 to 9% of m/z 174	6.3 (8.2)
176	Greater than 95% but less than 101% of m/z 174	76.3 (99.6)
177	5 to 9% of m/z 176	5.1 (6.6)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65703.D\8260624W6.rslt\spectra.d
Injection Date: 05-Jun-2018 01:01:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 85(3.38)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	55	96.00	3072	168.00	18	268.00	20
36.00	487	97.00	85	170.00	22	271.00	17
37.00	2238	98.00	22	172.00	128	272.00	19
38.00	1957	101.00	33	173.00	152	276.00	23
39.00	839	103.00	70	174.00	37824	277.00	18
40.00	641	104.00	202	175.00	3114	278.00	32
43.00	83	105.00	52	176.00	37664	279.00	29
44.00	3	106.00	106	177.00	2498	280.00	32
45.00	333	107.00	20	183.00	38	281.00	18
46.00	68	109.00	43	184.00	29	282.00	39
47.00	645	110.00	72	186.00	25	285.00	30
48.00	452	111.00	99	187.00	17	287.00	29
49.00	2042	112.00	56	188.00	18	291.00	17
50.00	9241	113.00	30	190.00	21	297.00	18
51.00	2936	115.00	142	193.00	107	298.00	20
52.00	200	116.00	234	194.00	46	300.00	66
55.00	198	117.00	280	198.00	18	301.00	18
56.00	546	118.00	156	199.00	30	303.00	19
57.00	1336	119.00	322	201.00	33	307.00	17
58.00	76	121.00	19	206.00	21	309.00	25
60.00	570	122.00	38	207.00	126	312.00	18
61.00	2440	124.00	71	209.00	38	313.00	52
62.00	2174	125.00	76	211.00	20	314.00	19
63.00	1647	128.00	95	213.00	19	316.00	30
64.00	144	129.00	75	214.00	32	317.00	37
65.00	132	130.00	143	217.00	39	321.00	37
67.00	36	131.00	62	218.00	19	324.00	18
68.00	4724	135.00	62	221.00	17	326.00	19
69.00	4750	136.00	127	224.00	32	328.00	25
70.00	403	137.00	72	226.00	35	339.00	33
71.00	139	138.00	22	228.00	61	341.00	57
72.00	165	140.00	37	229.00	36	343.00	19
73.00	1967	141.00	326	231.00	21	345.00	25

Report Date: 06-Jun-2018 12:17:14 Chrom Revision: 2.2 11-May-2018 08:54:46
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65703.D\8260624W6.rslt\spectra.d
Injection Date: 05-Jun-2018 01:01:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 85(3.38)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 201

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	8395	142.00	116	233.00	25	350.00	17
75.00	24784	143.00	516	235.00	22	351.00	31
76.00	2196	144.00	24	236.00	26	352.00	22
77.00	223	145.00	36	237.00	19	354.00	17
78.00	152	146.00	65	239.00	45	356.00	19
79.00	929	148.00	132	242.00	24	358.00	27
80.00	380	150.00	120	248.00	21	360.00	21
81.00	896	152.00	41	249.00	26	370.00	52
82.00	145	154.00	46	251.00	23	371.00	20
86.00	111	155.00	109	252.00	43	373.00	17
87.00	2158	156.00	41	255.00	34	380.00	28
88.00	1873	157.00	73	256.00	20	384.00	17
90.00	38	158.00	26	258.00	34	385.00	23
91.00	140	159.00	70	259.00	77	386.00	19
92.00	1300	161.00	111	262.00	19	389.00	26
93.00	1743	162.00	40	264.00	19		
94.00	5675	165.00	39	265.00	33		
95.00	49384	166.00	22	267.00	26		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67236.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 04-Jul-2018 06:45:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074850-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jul-2018 05:41:23 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: tupayachia Date: 04-Jul-2018 06:59:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.408	3.408	0.000	96	40423	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

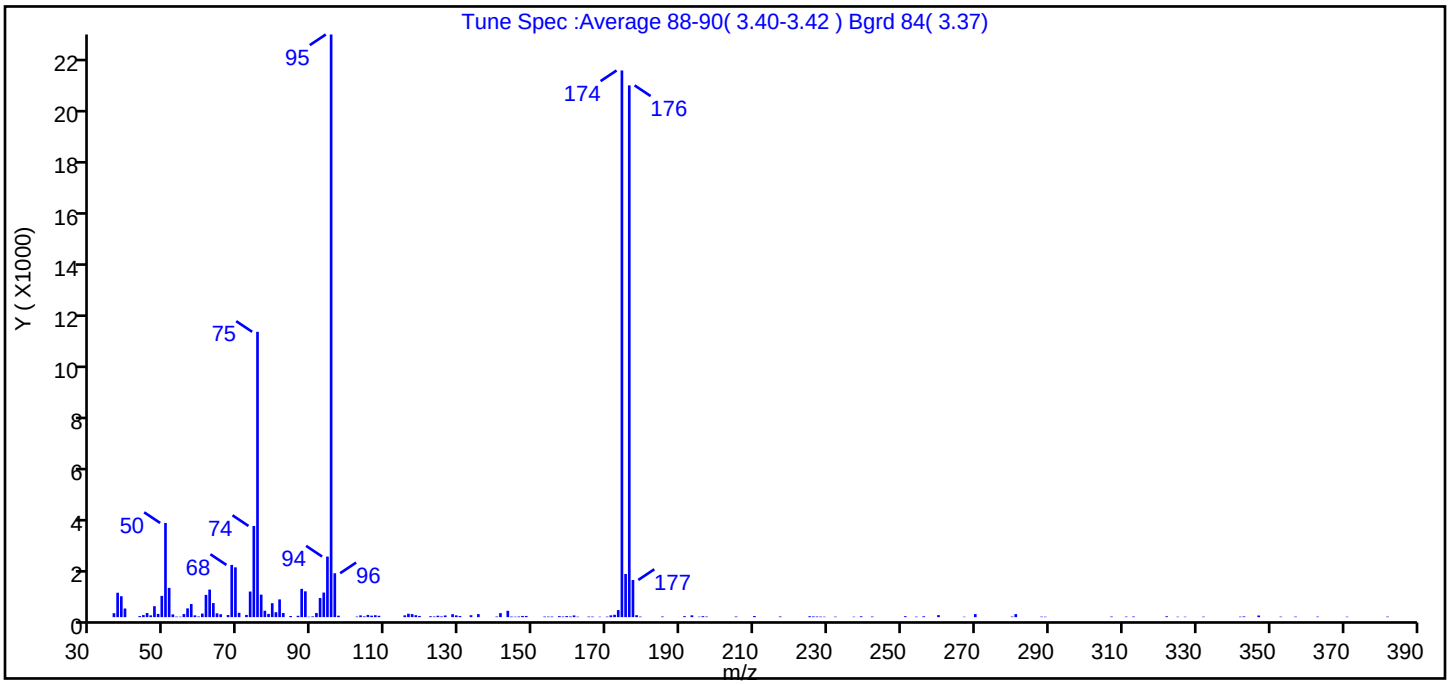
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67236.D
Injection Date: 04-Jul-2018 06:45:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	49.0
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	1.2 (1.3)
174	50 to 120% of m/z 95	93.8
175	5 to 9% of m/z 174	7.4 (7.9)
176	Greater than 95% but less than 101% of m/z 174	91.3 (97.3)
177	5 to 9% of m/z 176	6.4 (7.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67236.D\8260624W6.rslt\spectra.d
Injection Date: 04-Jul-2018 06:45:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 150

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	154	79.00	546	135.00	119	210.00	44
37.00	955	80.00	193	140.00	23	217.00	26
38.00	818	81.00	695	141.00	157	225.00	34
39.00	338	82.00	161	143.00	248	226.00	27
43.00	41	84.00	44	144.00	22	227.00	24
44.00	80	86.00	53	145.00	17	228.00	21
45.00	162	87.00	1106	146.00	24	229.00	17
46.00	70	88.00	1010	147.00	47	232.00	20
47.00	428	89.00	17	148.00	46	237.00	17
48.00	127	90.00	29	153.00	23	239.00	32
49.00	832	91.00	161	154.00	21	242.00	23
50.00	3685	92.00	747	155.00	23	251.00	36
51.00	1145	93.00	962	157.00	39	254.00	20
52.00	108	94.00	2371	158.00	24	256.00	33
53.00	21	95.00	22800	159.00	41	260.00	78
54.00	17	96.00	1718	160.00	25	267.00	16
55.00	120	97.00	57	161.00	67	270.00	118
56.00	343	102.00	21	162.00	18	280.00	23
57.00	513	103.00	68	165.00	22	281.00	118
58.00	70	104.00	29	166.00	21	288.00	19
59.00	25	105.00	87	168.00	16	289.00	17
60.00	140	106.00	58	170.00	20	307.00	23
61.00	871	107.00	75	171.00	71	311.00	21
62.00	1079	108.00	53	172.00	92	313.00	24
63.00	550	115.00	70	173.00	277	322.00	33
64.00	149	116.00	133	174.00	21392	325.00	17
65.00	114	117.00	119	175.00	1689	327.00	17
67.00	83	118.00	76	176.00	20808	332.00	20
68.00	2043	119.00	47	177.00	1455	342.00	19
69.00	1949	122.00	34	178.00	76	343.00	28
70.00	169	123.00	25	179.00	21	347.00	64
72.00	86	124.00	56	185.00	25	353.00	20
73.00	1002	125.00	27	191.00	38	357.00	21

Report Date: 05-Jul-2018 05:41:24 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67236.D\8260624W6.rslt\spectra.d
Injection Date: 04-Jul-2018 06:45:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 150

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	3568	126.00	66	193.00	71	363.00	21
75.00	11165	128.00	116	195.00	17	371.00	18
76.00	881	129.00	69	196.00	38	382.00	21
77.00	250	130.00	43	197.00	22		
78.00	127	133.00	76	205.00	25		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84639.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Jun-2018 23:47:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0073325-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 07-Jun-2018 15:04:47 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.415	5.415	0.000	0	317	NR	NR	
$ 134 BFB	95	4.306	4.306	0.000	93	95352	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

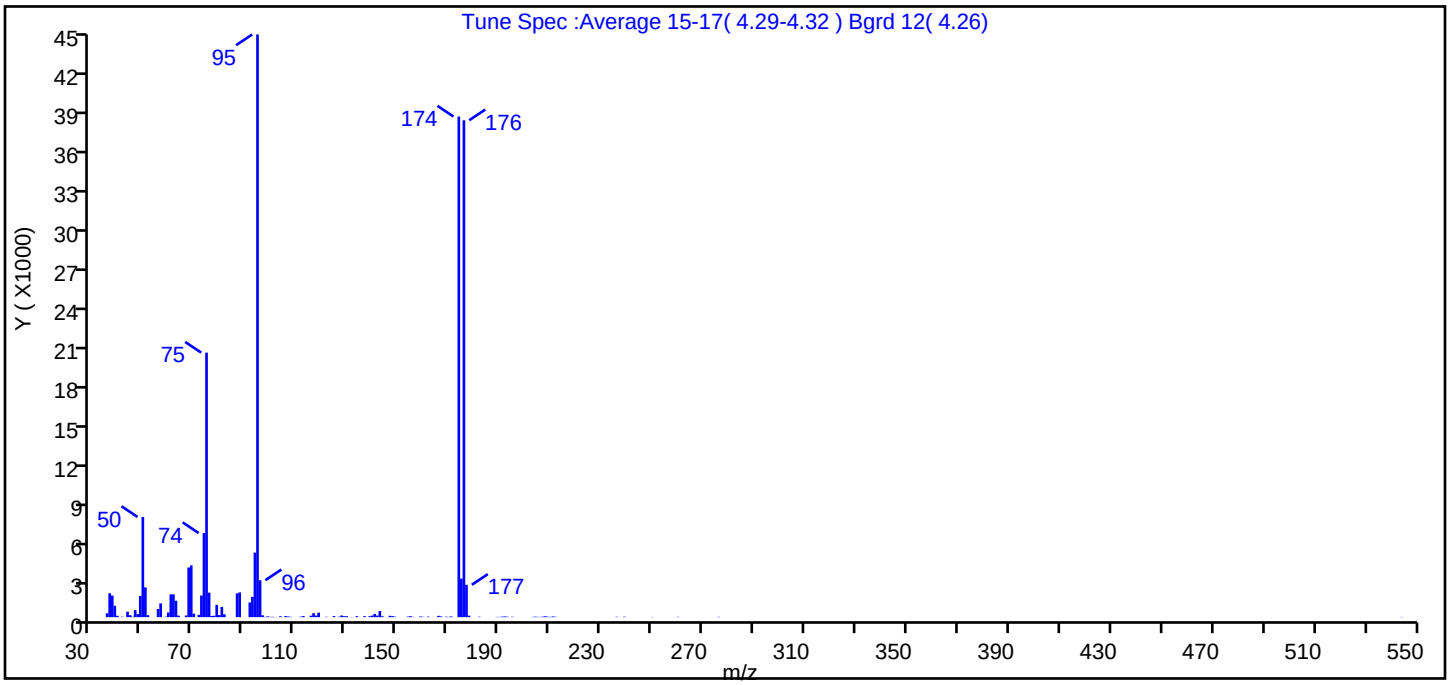
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84639.D
Injection Date: 06-Jun-2018 23:47:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	85.9
175	5 to 9% of m/z 174	6.6 (7.7)
176	Greater than 95% but less than 101% of m/z 174	85.3 (99.3)
177	5 to 9% of m/z 176	5.5 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84639.D\8260S9.rslt\spectra.d
Injection Date: 06-Jun-2018 23:47:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 120

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	295	75.00	20112	119.00	342	170.00	20
37.00	1817	76.00	1862	122.00	27	171.00	53
38.00	1642	77.00	93	125.00	80	174.00	38064
39.00	864	78.00	104	127.00	32	175.00	2925
40.00	104	79.00	934	128.00	125	176.00	37784
42.00	32	80.00	154	129.00	73	177.00	2458
44.00	414	81.00	781	130.00	74	178.00	113
45.00	147	82.00	214	131.00	3	182.00	31
46.00	34	87.00	1805	132.00	14	189.00	20
47.00	534	88.00	1880	134.00	73	190.00	19
48.00	230	92.00	1114	137.00	74	191.00	39
49.00	1611	93.00	1545	139.00	67	192.00	53
50.00	7621	94.00	4907	140.00	116	193.00	35
51.00	2263	95.00	44304	141.00	241	195.00	31
52.00	148	96.00	2809	142.00	118	203.00	20
56.00	621	97.00	142	143.00	464	204.00	37
57.00	1048	98.00	20	144.00	66	205.00	21
59.00	35	99.00	58	146.00	9	206.00	18
60.00	354	100.00	22	147.00	101	207.00	39
61.00	1735	101.00	26	148.00	76	208.00	67
62.00	1733	102.00	12	149.00	35	209.00	31
63.00	1248	104.00	67	154.00	40	210.00	22
64.00	117	106.00	81	155.00	72	211.00	54
67.00	126	107.00	51	156.00	23	212.00	24
68.00	3775	108.00	28	159.00	53	236.00	27
69.00	3936	112.00	37	160.00	21	239.00	34
70.00	263	113.00	82	162.00	40	250.00	16
72.00	177	116.00	111	166.00	100	260.00	24
73.00	1644	117.00	301	167.00	57	276.00	24
74.00	6394	118.00	121	169.00	34	544.00	16

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86033.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Jul-2018 23:40:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074846-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 04-Jul-2018 09:20:56 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK009

First Level Reviewer: starzecm Date: 04-Jul-2018 09:20:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.306	4.306	0.000	97	82428	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

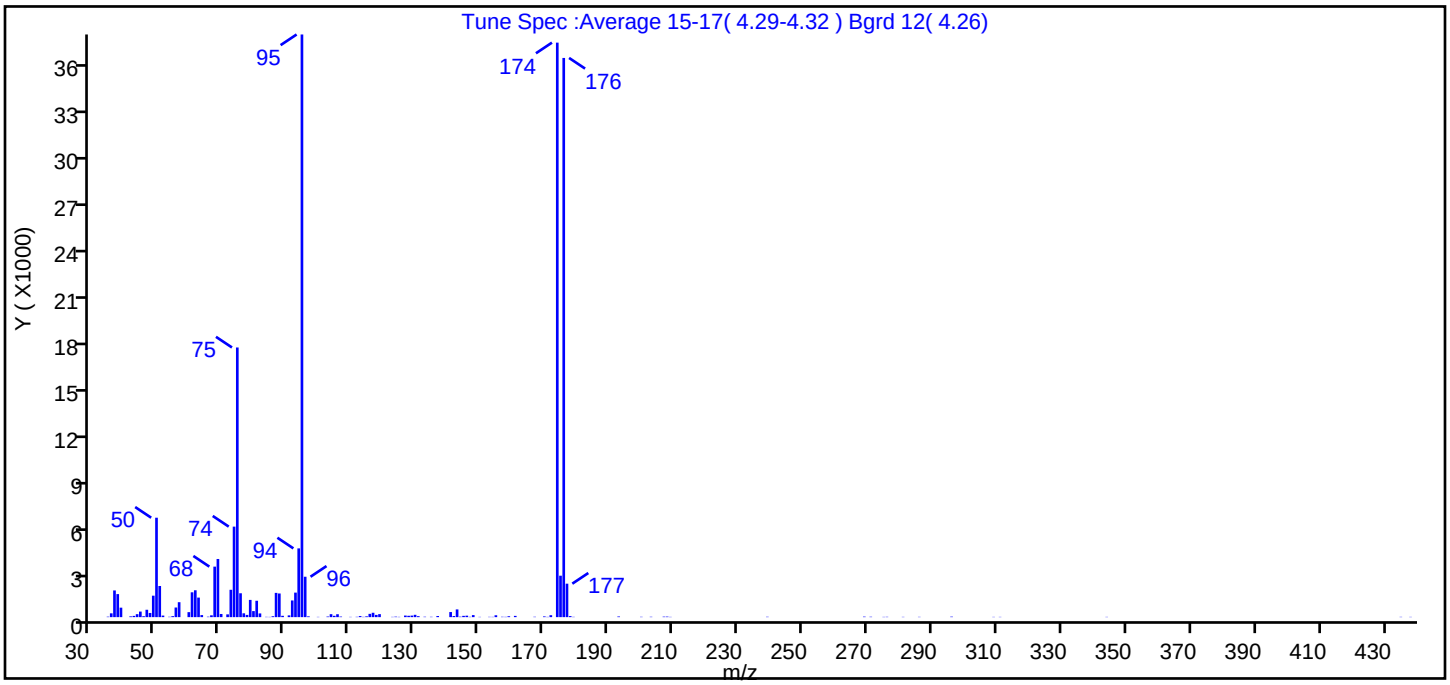
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86033.D
Injection Date: 03-Jul-2018 23:40:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.1
75	30 to 60% of m/z 95	46.3
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	98.6
175	5 to 9% of m/z 174	7.1 (7.2)
176	Greater than 95% but less than 101% of m/z 174	96.0 (97.3)
177	5 to 9% of m/z 176	5.7 (6.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86033.D\8260S9.rslt\spectra.d
Injection Date: 03-Jul-2018 23:40:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 125

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	30	74.00	5865	115.00	51	167.00	24
36.00	247	75.00	17472	116.00	213	170.00	47
37.00	1730	76.00	1547	117.00	284	171.00	17
38.00	1493	77.00	249	118.00	145	172.00	125
39.00	614	78.00	145	119.00	195	174.00	37224
42.00	50	79.00	1117	123.00	18	175.00	2685
43.00	81	80.00	392	124.00	32	176.00	36232
44.00	192	81.00	1061	125.00	18	177.00	2168
45.00	361	82.00	241	127.00	103	178.00	68
46.00	60	84.00	19	128.00	88	179.00	19
47.00	478	85.00	16	129.00	100	193.00	42
48.00	270	86.00	59	130.00	151	200.00	22
49.00	1390	87.00	1572	131.00	62	203.00	24
50.00	6442	88.00	1533	133.00	27	207.00	32
51.00	2018	89.00	87	135.00	23	208.00	35
52.00	101	91.00	114	137.00	73	209.00	17
54.00	23	92.00	1082	141.00	330	239.00	24
55.00	64	93.00	1589	142.00	71	269.00	33
56.00	624	94.00	4455	143.00	501	271.00	26
57.00	968	95.00	37752	144.00	30	275.00	17
60.00	323	96.00	2618	145.00	84	276.00	22
61.00	1609	97.00	51	146.00	95	281.00	18
62.00	1741	100.00	17	147.00	21	286.00	19
63.00	1267	103.00	39	148.00	132	296.00	32
64.00	133	104.00	192	150.00	17	309.00	17
66.00	29	105.00	86	153.00	20	311.00	17
67.00	118	106.00	188	154.00	18	344.00	17
68.00	3273	107.00	37	155.00	121	435.00	19
69.00	3768	110.00	17	157.00	24	438.00	17
70.00	205	112.00	21	158.00	20		
72.00	180	113.00	70	159.00	59		
73.00	1773	114.00	18	161.00	82		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533092/8

Matrix: Water | Lab File ID: N68532.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 10:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533092/8

Matrix: Water | Lab File ID: N68532.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 10:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	91		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 03-Jul-2018 10:17:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0074795-008
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 13:48:14 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:53:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	3.353	3.353	0.000	39	128958	1000.0	1000.0	
$ 51 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	97	142432	50.0	45.6	
* 39 2-Butanone-d5	46	4.741	4.753	-0.012	0	155322	250.0	250.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.197	5.203	-0.006	97	132954	50.0	42.7	
* 62 Fluorobenzene	96	5.483	5.483	0.000	100	648781	50.0	50.0	
* 68 1,4-Dioxane-d8	96	6.487	6.499	-0.012	30	17116	1000.0	1000.0	
$ 79 Toluene-d8 (Surr)	98	7.265	7.265	0.000	99	564612	50.0	50.3	
* 90 Chlorobenzene-d5	117	9.248	9.254	-0.006	84	437205	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	10.532	10.532	0.000	91	148236	50.0	41.6	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	95	229293	50.0	50.0	

Reagents:

8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00176 Amount Added: 1.00 Units: uL Run Reagent

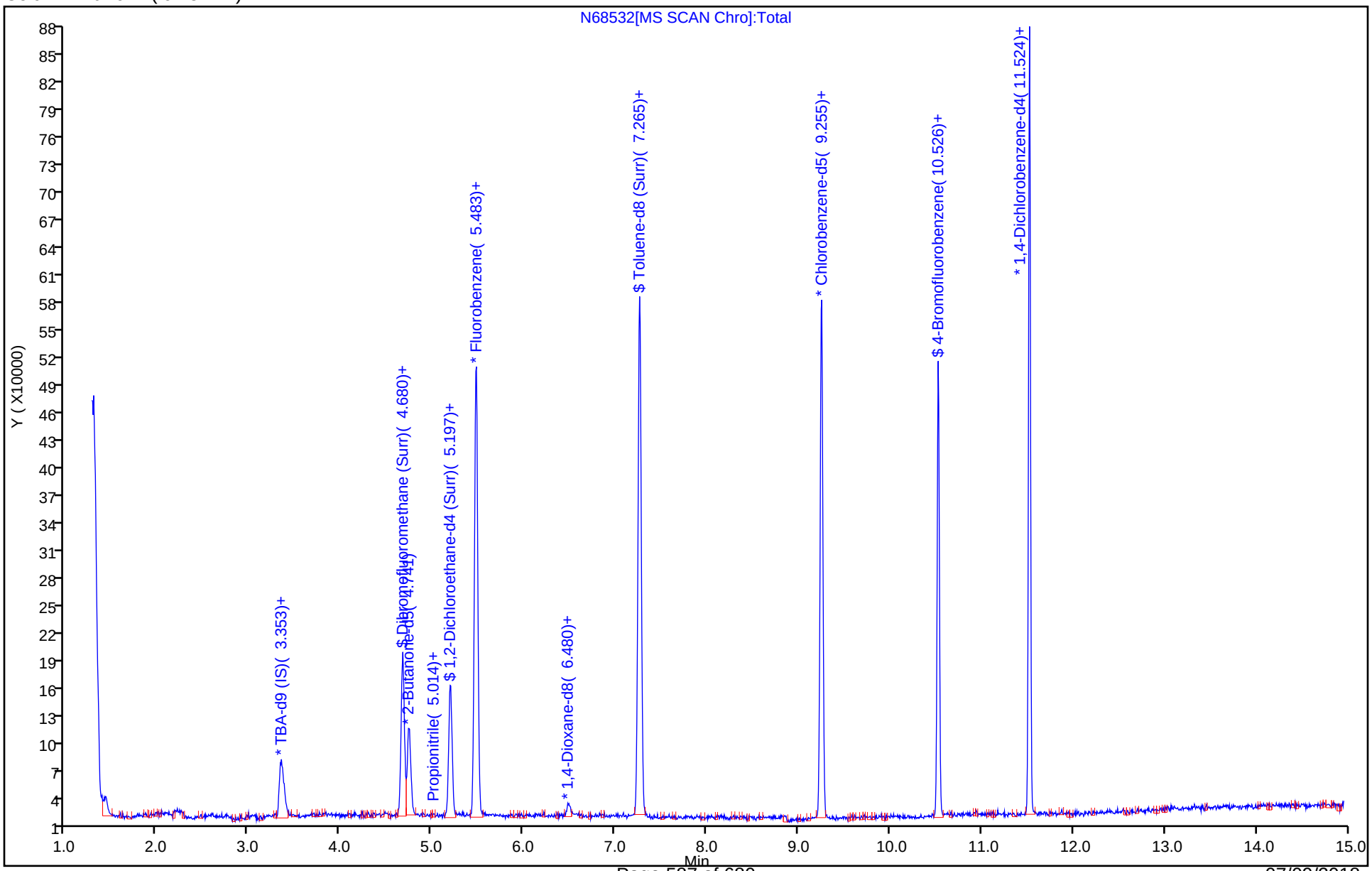
Report Date: 03-Jul-2018 13:48:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D

Injection Date:	03-Jul-2018 10:17:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



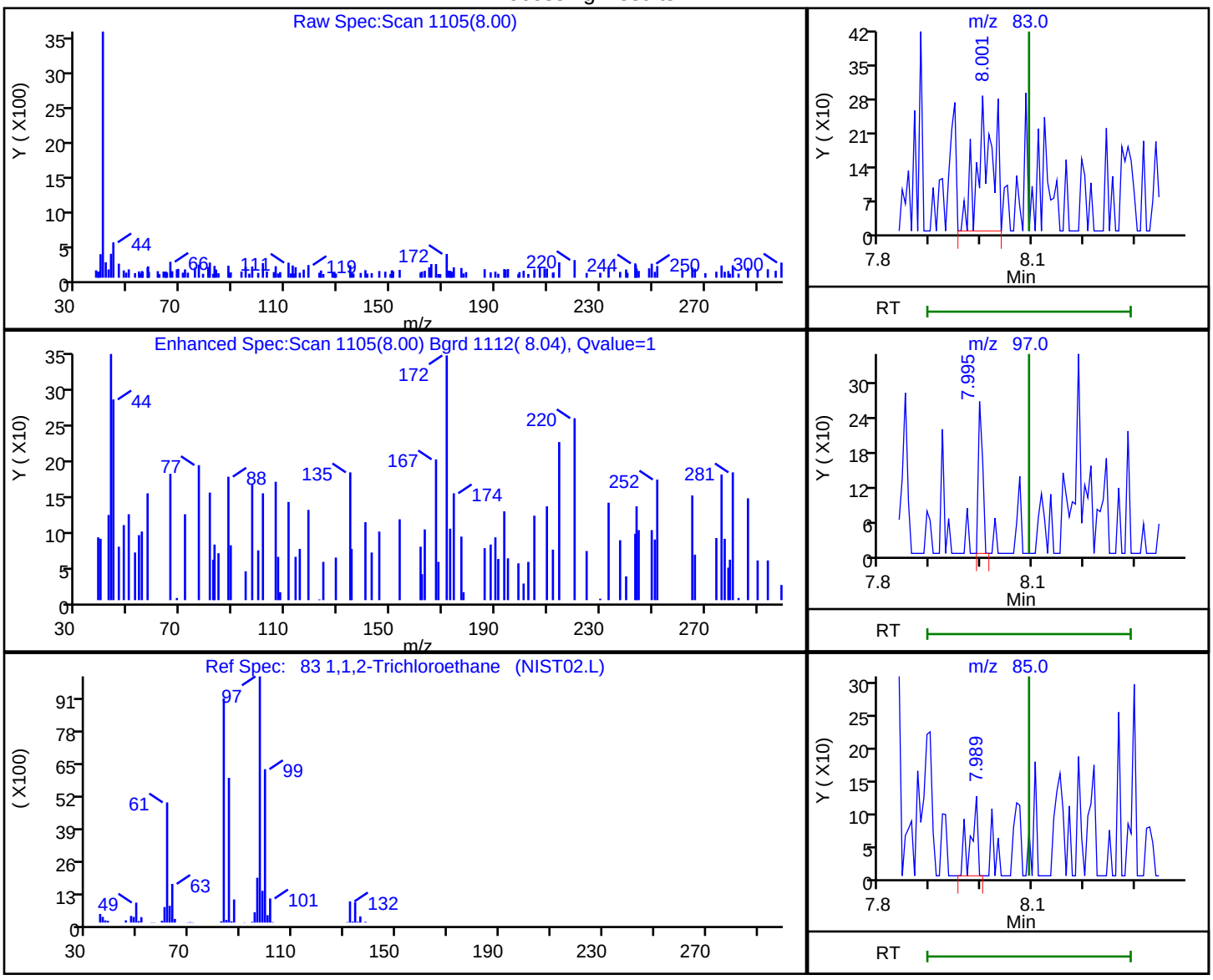
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Injection Date: 03-Jul-2018 10:17:30 Instrument ID: CVOAMS11
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
8.00	83.00	588	0.295719
8.00	97.00	154	
7.99	85.00	118	

Reviewer: delpolitov, 03-Jul-2018 12:53:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

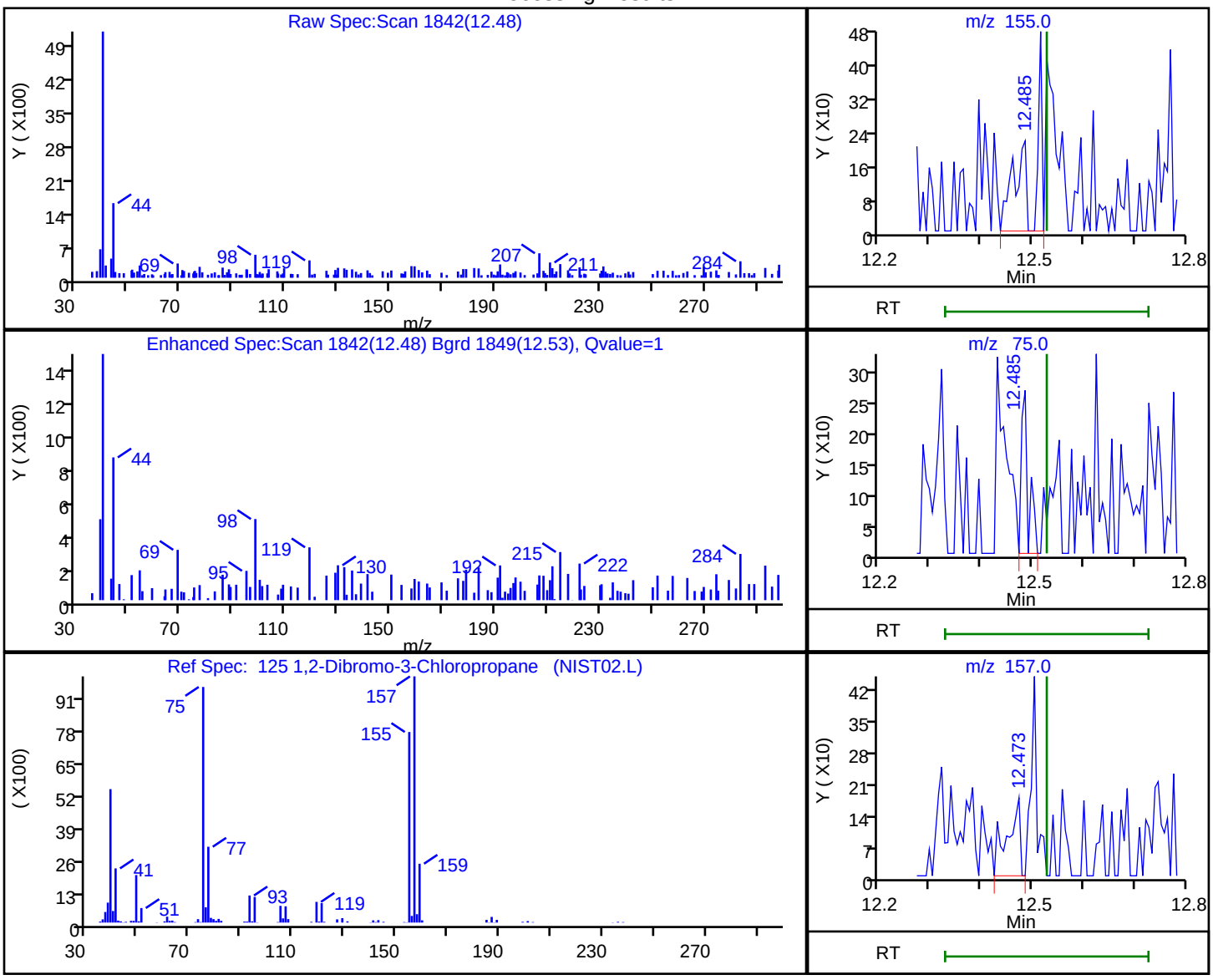
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Injection Date: 03-Jul-2018 10:17:30 Instrument ID: CVOAMS11
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

125 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
12.48	155.00	609	1.257601
12.48	75.00	253	
12.47	157.00	297	

Reviewer: delpolitov, 03-Jul-2018 12:53:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

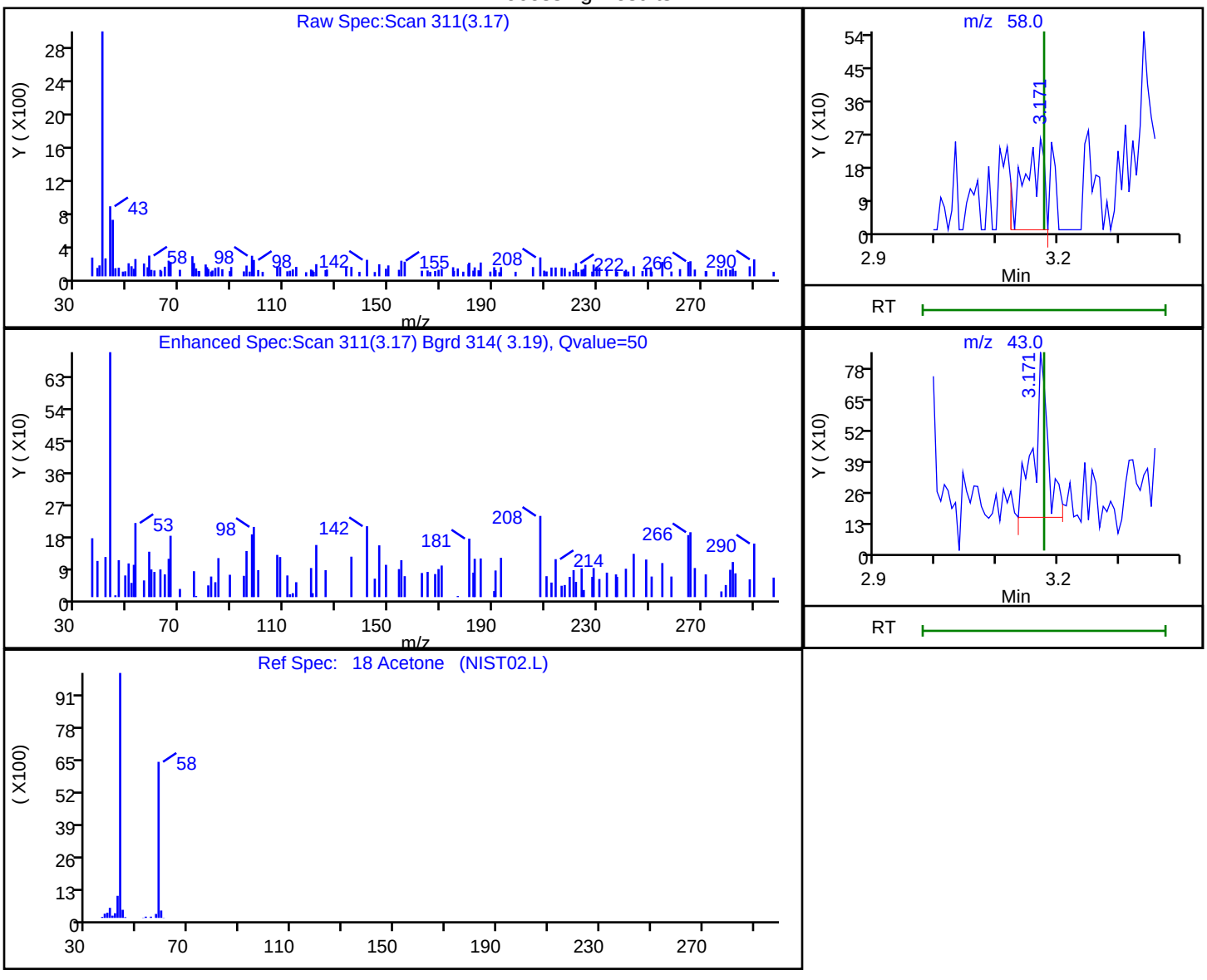
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Injection Date: 03-Jul-2018 10:17:30 Instrument ID: CVOAMS11
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
3.17	58.00	541	3.436009
3.17	43.00	1125	

Reviewer: delpolitov, 03-Jul-2018 12:53:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

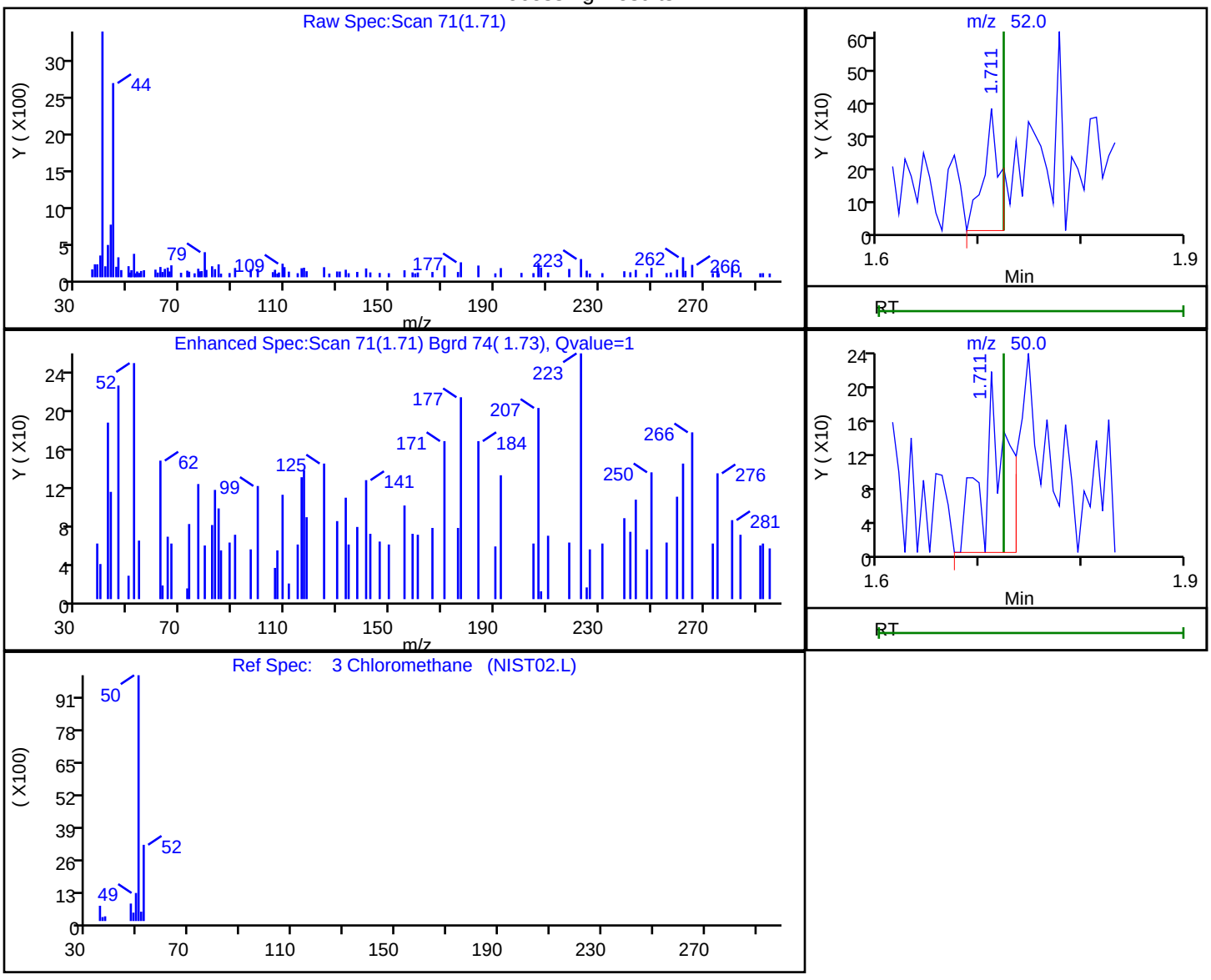
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Injection Date: 03-Jul-2018 10:17:30 Instrument ID: CVOAMS11
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.71	52.00	408	0.420456
1.71	50.00	345	

Reviewer: delpolitov, 03-Jul-2018 12:53:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

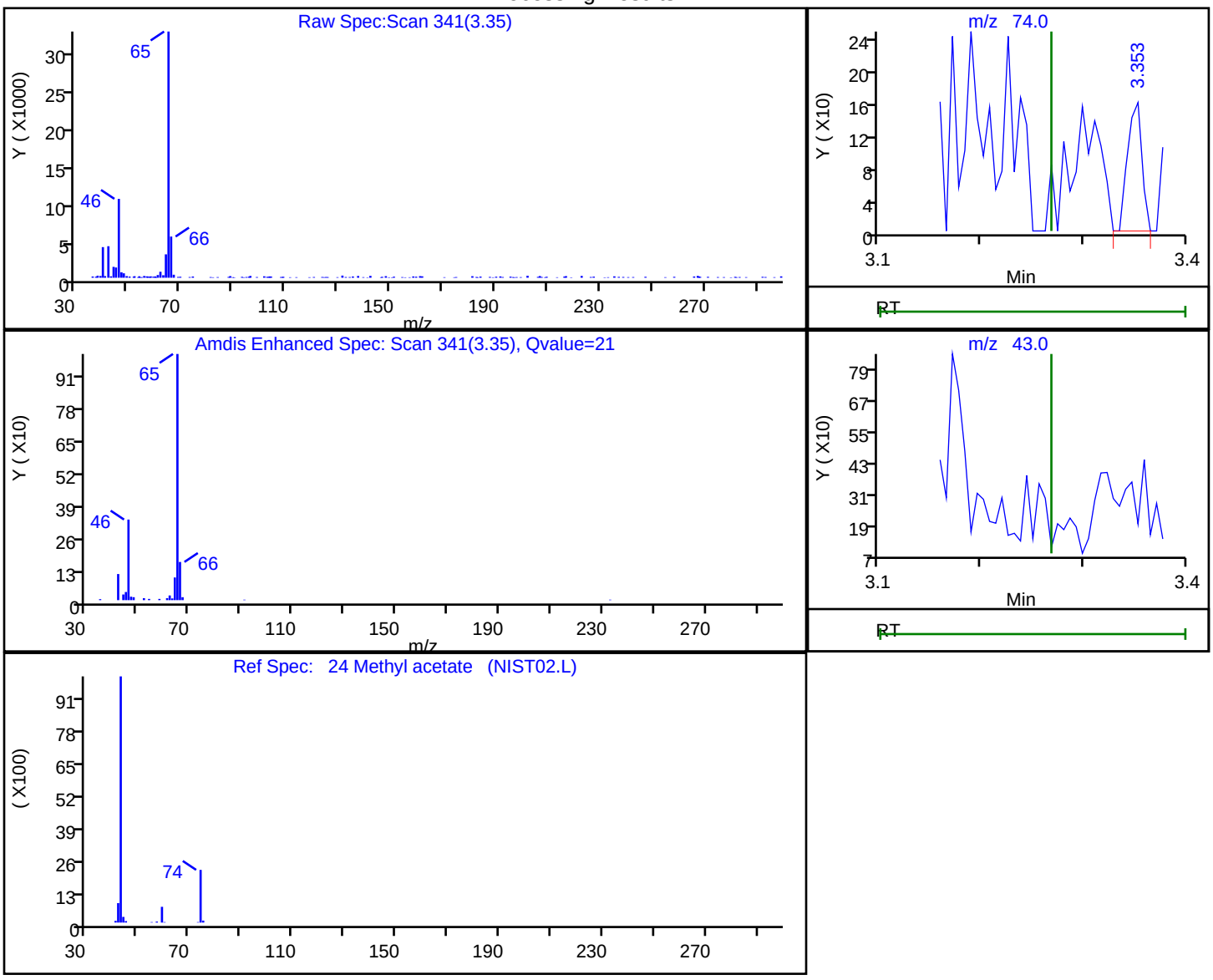
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68532.D
Injection Date: 03-Jul-2018 10:17:30 Instrument ID: CVOAMS11
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
3.35	74.00	158	0.664608
3.36	43.00	971	

Reviewer: delpolitov, 03-Jul-2018 12:53:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533363/8

Matrix: Solid | Lab File ID: K86040.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 02:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	ND		5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533363/8

Matrix: Solid | Lab File ID: K86040.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 02:37

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.427	J	1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	ND		1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		78-135
460-00-4	4-Bromofluorobenzene	106		67-126
2037-26-5	Toluene-d8 (Surr)	95		73-121
1868-53-7	Dibromofluoromethane (Surr)	116		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86040.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Jul-2018 02:37:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0074846-008
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:27:22 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 06-Jul-2018 01:27:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	3.364	3.370	-0.006	30	1527		0.4268	M
* 25 TBA-d9 (IS)	65	3.352	3.370	-0.018	0	337316	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	269382	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	165757	50.0	57.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.290	5.296	-0.006	0	164146	50.0	56.5	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	99	419276	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	27120	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	536063	50.0	47.4	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	365148	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	177571	50.0	52.9	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	-0.001	95	222746	50.0	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

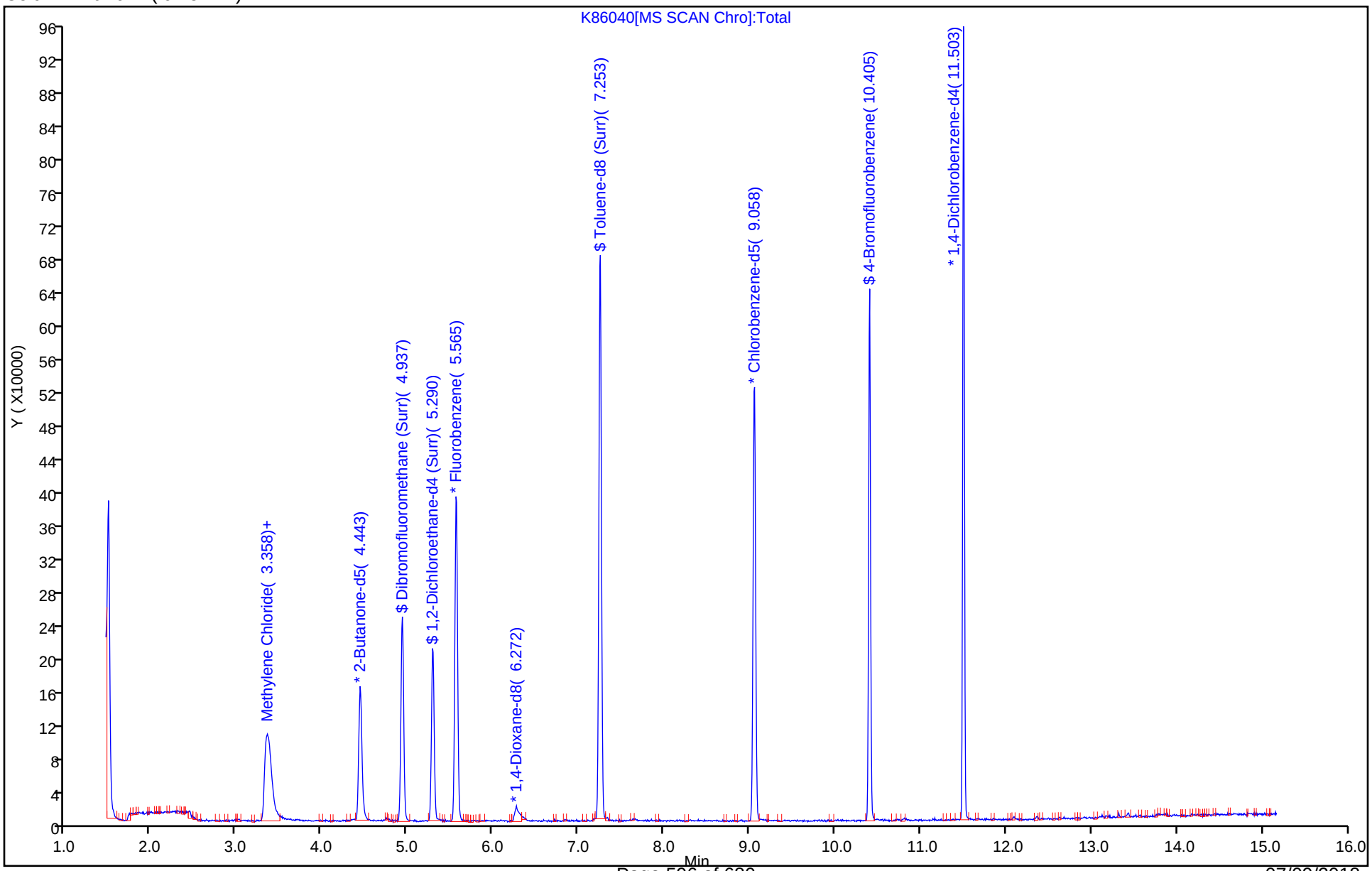
Report Date: 06-Jul-2018 01:27:23 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86040.D

Injection Date:	04-Jul-2018 02:37:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Report Date: 06-Jul-2018 01:27:23 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86040.D

Injection Date: 04-Jul-2018 02:37:30 Instrument ID: CVOAMS9

Lims ID: MB

Client ID:

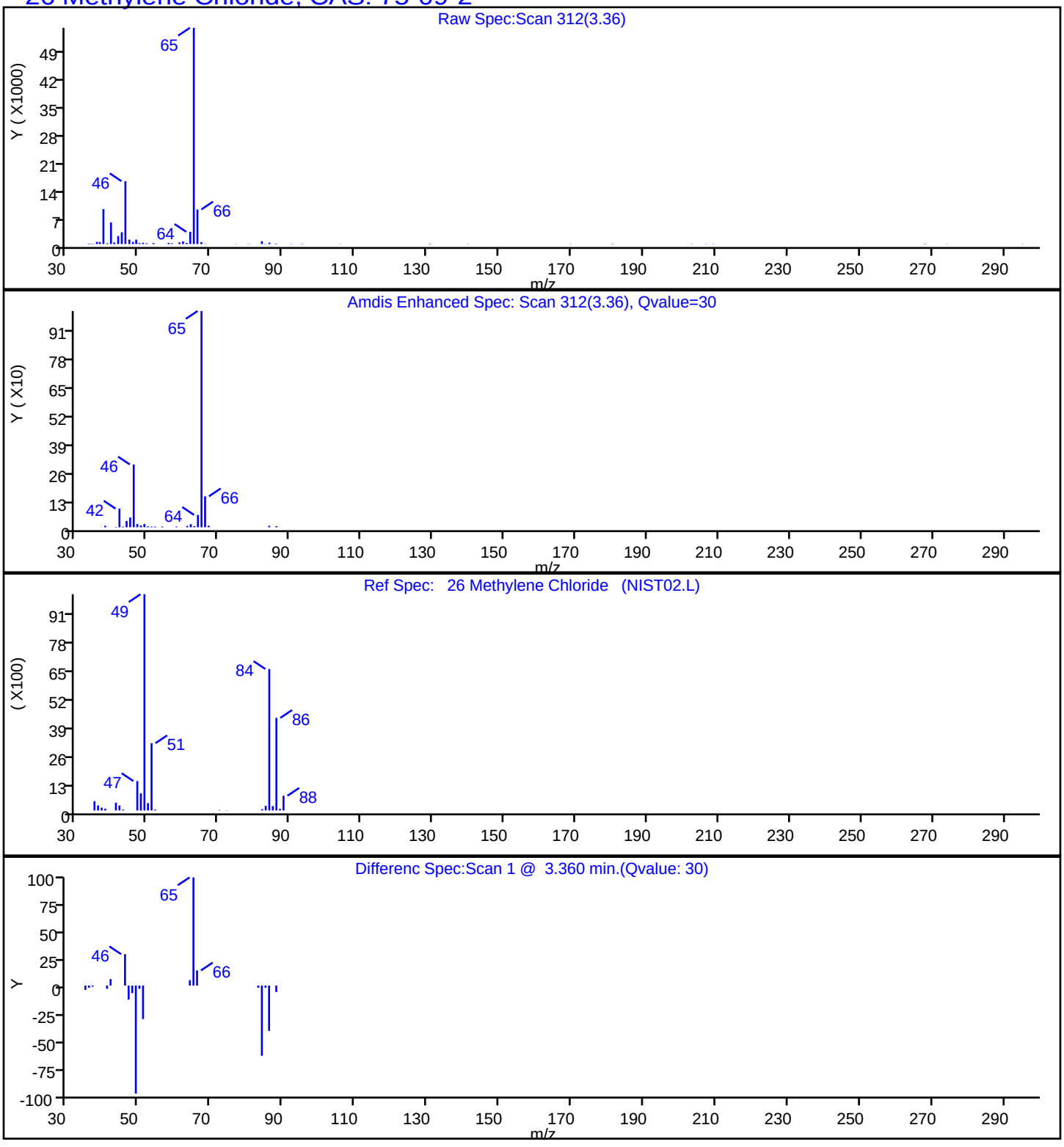
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



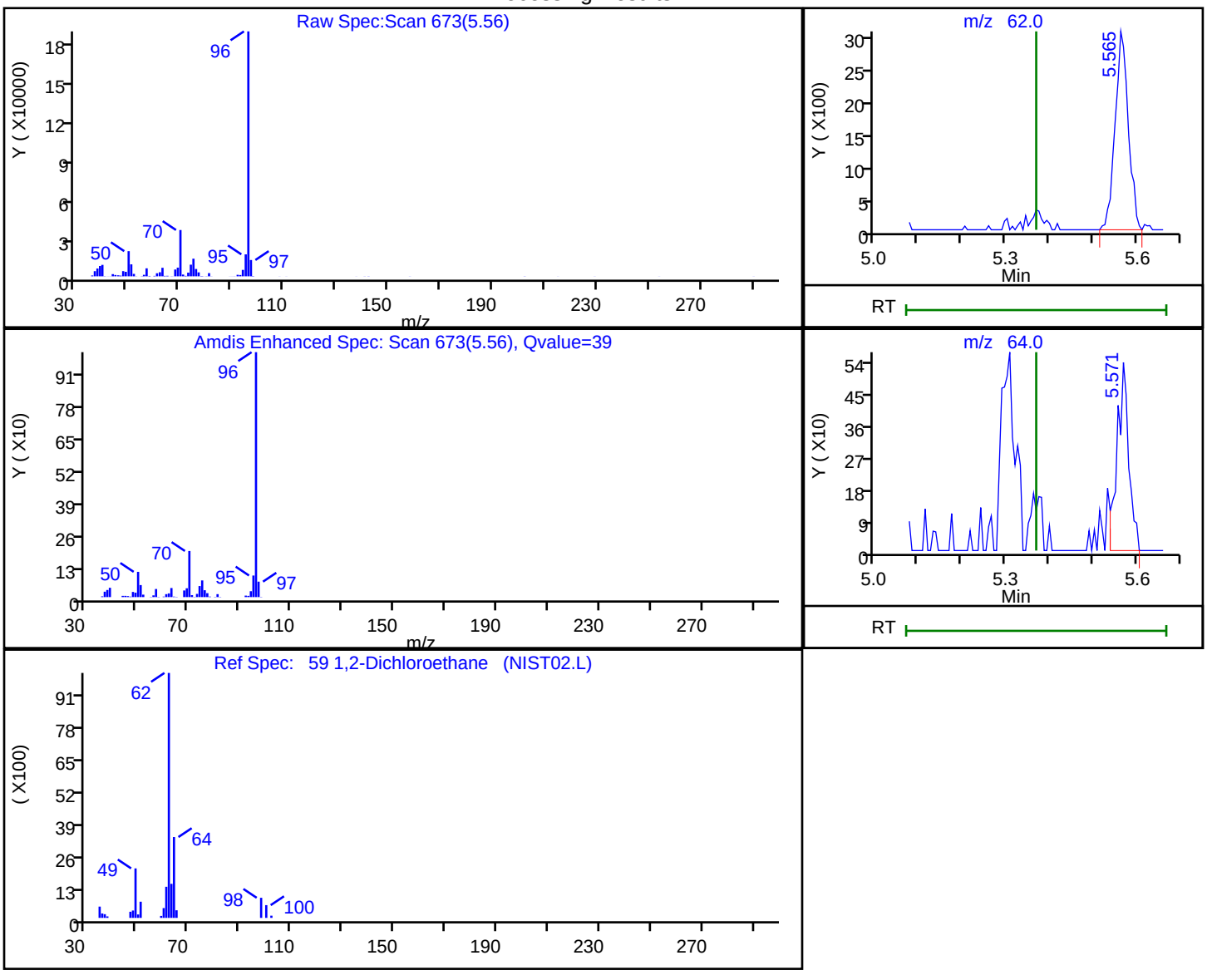
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86040.D
Injection Date: 04-Jul-2018 02:37:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.56	62.00	6450	1.664869
5.57	64.00	989	

Reviewer: starzecm, 04-Jul-2018 10:58:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

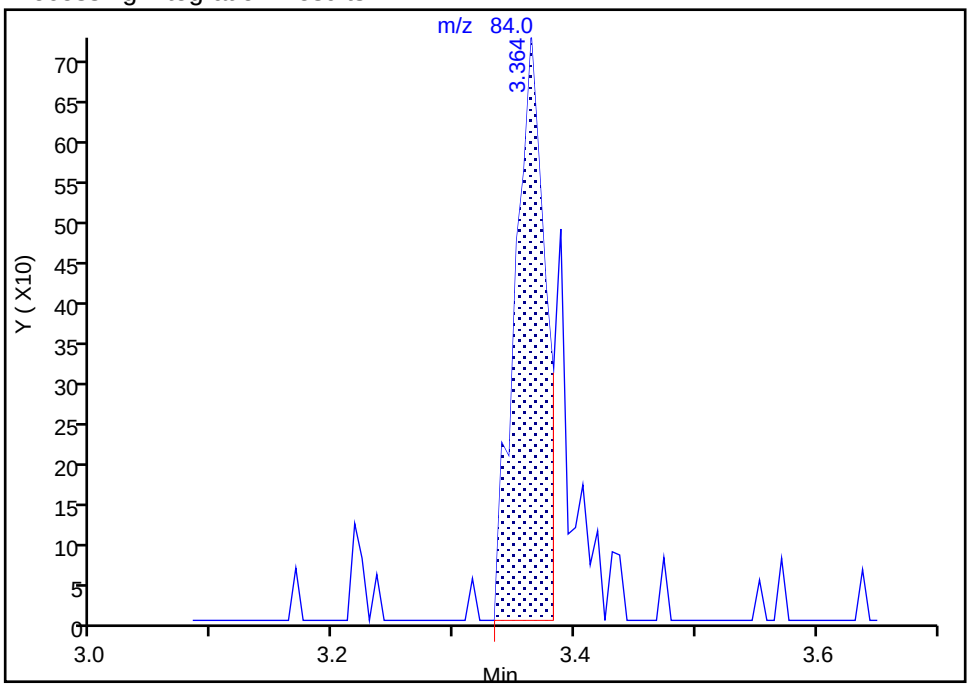
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86040.D
Injection Date: 04-Jul-2018 02:37:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

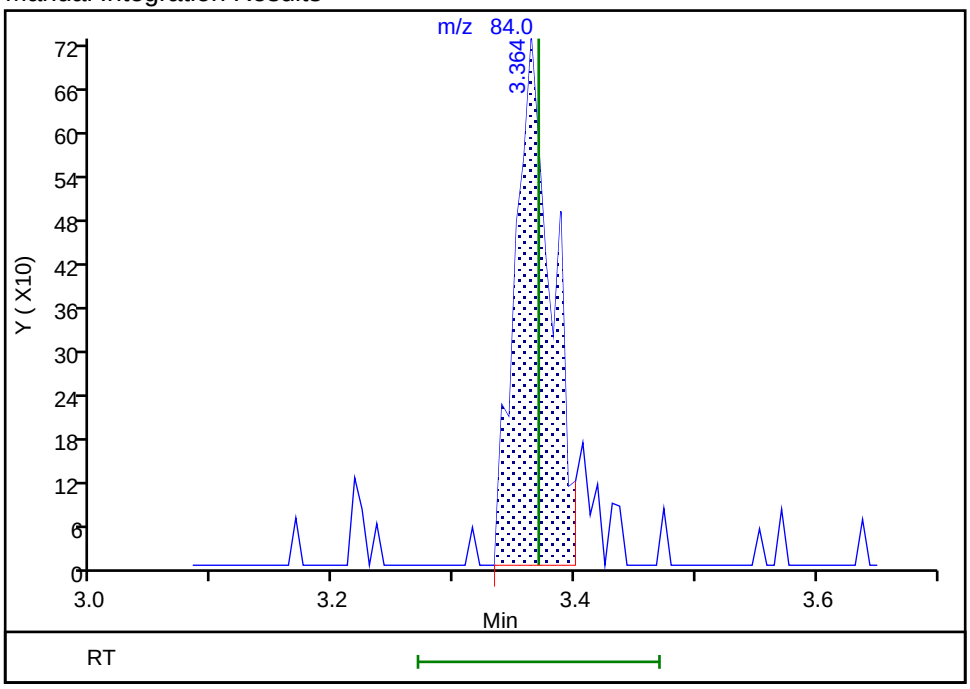
Processing Integration Results

RT: 3.36
Area: 1268
Amount: 0.354391
Amount Units: ug/l



Manual Integration Results

RT: 3.36
Area: 1527
Amount: 0.426778
Amount Units: ug/l



Reviewer: delpolitov, 06-Jul-2018 01:27:04
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533394/8

Matrix: Water | Lab File ID: F67243.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533394 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533394/8

Matrix: Water | Lab File ID: F67243.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 10:02

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533394 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	107		77-124
2037-26-5	Toluene-d8 (Surr)	95		80-120
1868-53-7	Dibromofluoromethane (Surr)	110		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67243.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 04-Jul-2018 10:02:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0074850-008
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 05-Jul-2018 06:27:14 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 05-Jul-2018 06:14:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	77360	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	67167	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	54873	50.0	55.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	55418	50.0	45.8	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	202214	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.061	6.019	0.042	0	6324	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	194922	50.0	47.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	84	140493	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	96	61949	50.0	53.4	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	93	87067	50.0	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

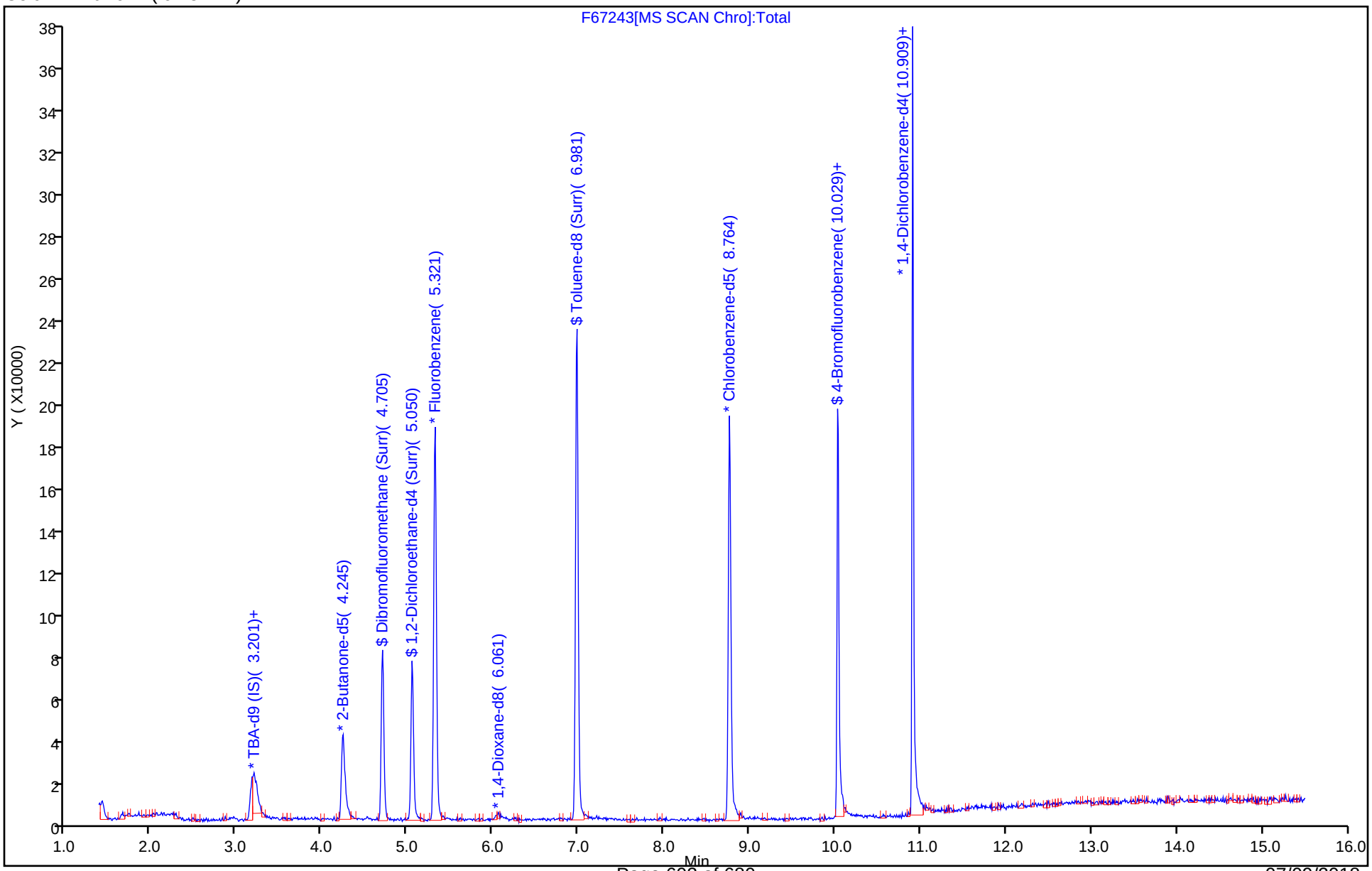
Report Date: 05-Jul-2018 06:27:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67243.D

Injection Date:	04-Jul-2018 10:02:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



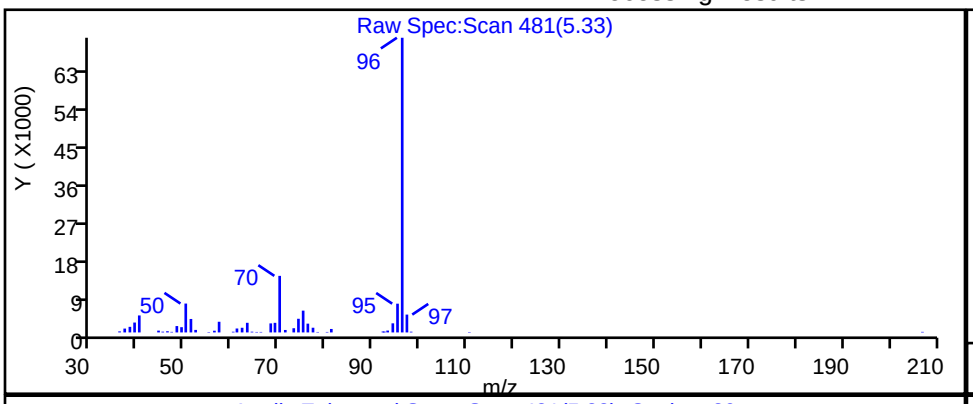
User Disabled Compound Report

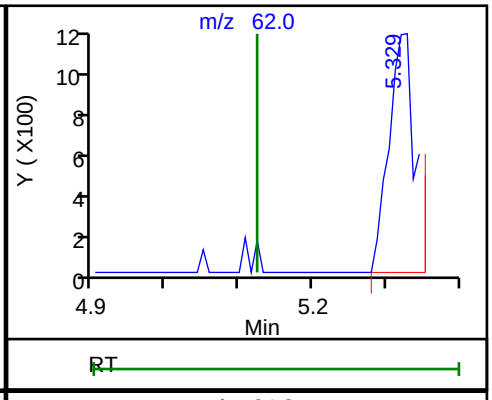
TestAmerica Edison

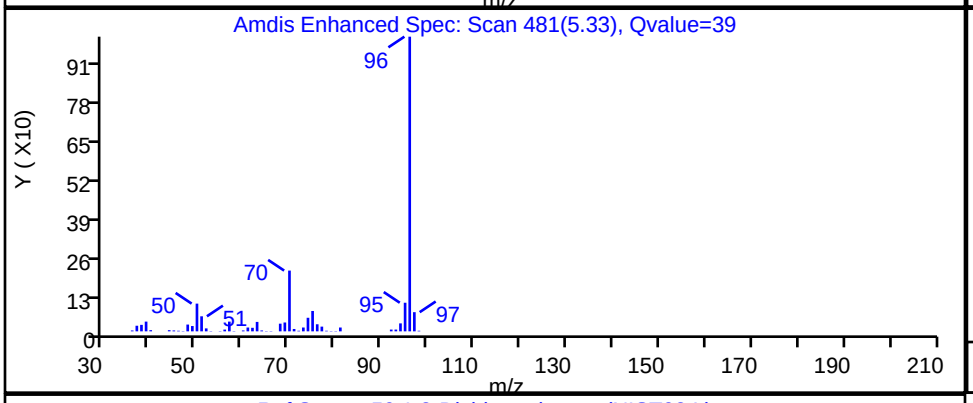
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67243.D
Injection Date: 04-Jul-2018 10:02:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

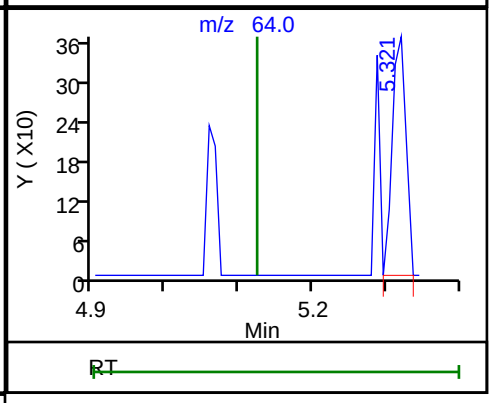
59 1,2-Dichloroethane, CAS: 107-06-2

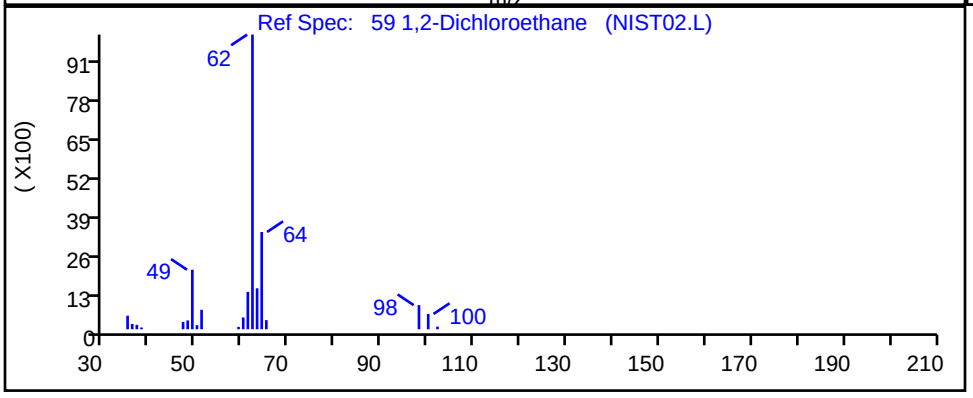
Processing Results











RT	Mass	Response	Amount
5.33	62.00	2607	0.684246
5.32	64.00	472	

Reviewer: moroneyc, 05-Jul-2018 06:14:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533092/4

Matrix: Water | Lab File ID: N68528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 08:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	15.2		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.0		1.0	0.43
75-34-3	1,1-Dichloroethane	18.0		1.0	0.26
75-35-4	1,1-Dichloroethene	17.1		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	18.2		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	14.5		1.0	0.38
95-50-1	1,2-Dichlorobenzene	18.7		1.0	0.43
107-06-2	1,2-Dichloroethane	15.8		1.0	0.43
78-87-5	1,2-Dichloropropane	18.4		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.2		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.9		1.0	0.76
78-93-3	2-Butanone (MEK)	108		5.0	1.9
591-78-6	2-Hexanone	84.8		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	92.1		5.0	2.7
67-64-1	Acetone	93.2		5.0	5.0
71-43-2	Benzene	22.5		1.0	0.43
75-25-2	Bromoform	16.0		1.0	0.54
74-83-9	Bromomethane	20.2		1.0	1.0
75-15-0	Carbon disulfide	16.7		1.0	0.16
56-23-5	Carbon tetrachloride	21.6		1.0	0.21
108-90-7	Chlorobenzene	19.3		1.0	0.38
124-48-1	Dibromochloromethane	19.4		1.0	0.28
75-00-3	Chloroethane	22.6		1.0	0.32
67-66-3	Chloroform	19.8		1.0	0.33
74-87-3	Chloromethane	33.2		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.0		1.0	0.22
110-82-7	Cyclohexane	15.9		1.0	0.32
75-27-4	Bromodichloromethane	19.0		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.8		1.0	0.12
100-41-4	Ethylbenzene	19.7		1.0	0.30
106-93-4	1,2-Dibromoethane	15.8		1.0	0.50
98-82-8	Isopropylbenzene	19.3		1.0	0.34
79-20-9	Methyl acetate	41.9		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533092/4

Matrix: Water | Lab File ID: N68528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 08:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	13.8		1.0	0.47
108-87-2	Methylcyclohexane	17.5		1.0	0.26
75-09-2	Methylene Chloride	15.8		1.0	0.32
127-18-4	Tetrachloroethene	19.7		1.0	0.25
108-88-3	Toluene	21.0		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	15.9		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.6		1.0	0.49
79-01-6	Trichloroethene	19.8		1.0	0.31
75-69-4	Trichlorofluoromethane	20.7		1.0	0.14
75-01-4	Vinyl chloride	19.5		1.0	0.17
1330-20-7	Xylenes, Total	36.0		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.46
100-42-5	Styrene	18.7		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	84		74-132
460-00-4	4-Bromofluorobenzene	87		77-124
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	95		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 03-Jul-2018 08:48:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074795-004
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 13:48:14 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:50:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.559	1.553	0.006	87	48261	20.0	15.4	
2 Dichlorodifluoromethane	87	1.565	1.577	-0.012	99	41383	20.0	20.8	
3 Chloromethane	52	1.717	1.723	-0.006	99	32111	20.0	33.2	
5 Butadiene	54	1.784	1.790	-0.006	95	75319	20.0	18.5	
4 Vinyl chloride	62	1.796	1.790	0.006	98	94658	20.0	19.5	
6 Bromomethane	94	2.064	2.052	0.012	97	58853	20.0	20.2	
7 Chloroethane	64	2.161	2.155	0.006	99	54042	20.0	22.6	
10 Pentane	72	2.240	2.234	0.006	97	25449	40.0	69.8	
9 Trichlorofluoromethane	101	2.277	2.271	0.006	97	133721	20.0	20.7	
8 Dichlorofluoromethane	67	2.313	2.313	0.000	99	142294	20.0	19.2	
12 Ethyl ether	59	2.490	2.490	0.000	64	38867	20.0	14.4	
13 2-Methyl-1,3-butadiene	53	2.490	2.490	0.000	95	48860	20.0	16.0	
11 Ethanol	46	2.629	2.629	0.000	91	8983	800.0	1044.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.660	2.654	0.006	75	69287	20.0	16.9	
17 1,1-Dichloroethene	96	2.666	2.666	0.000	95	59526	20.0	17.1	
20 Carbon disulfide	76	2.696	2.696	0.000	99	204240	20.0	16.7	
15 1,1,2-Trichloro-1,2,2-trif	101	2.709	2.709	0.000	90	72139	20.0	17.1	a
19 Iodomethane	142	2.788	2.788	0.000	98	109437	20.0	16.3	
23 Cyclopentene	67	2.909	2.903	0.006	95	147114	20.0	17.1	
16 Acrolein	56	2.934	2.934	0.000	27	10843	40.0	47.2	
21 Isopropyl alcohol	45	3.049	3.037	0.012	24	16373	200.0	193.0	a
22 3-Chloro-1-propene	76	3.049	3.055	-0.006	95	34548	20.0	16.6	
26 Methylene Chloride	84	3.134	3.134	0.000	89	66041	20.0	15.8	M
18 Acetone	58	3.171	3.177	-0.006	89	14642	100.0	93.2	
24 Methyl acetate	74	3.280	3.268	0.012	43	10480	40.0	41.9	a
30 trans-1,2-Dichloroethene	96	3.268	3.268	0.000	90	63643	20.0	15.9	
32 Hexane	56	3.329	3.323	0.006	91	47557	20.0	15.7	
29 Methyl tert-butyl ether	73	3.347	3.347	0.000	90	143641	20.0	13.8	M
* 27 TBA-d9 (IS)	65	3.359	3.353	0.006	89	135531	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.414	3.420	-0.006	99	29607	200.0	179.5	
25 Acetonitrile	40	3.585	3.566	0.019	99	27395	200.0	293.8	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Isopropyl ether	45	3.664	3.658	0.006	93	171700	20.0	15.3	
36 2-Chloro-1,3-butadiene	88	3.773	3.761	0.012	88	53940	20.0	17.0	
34 1,1-Dichloroethane	63	3.791	3.785	0.006	99	110455	20.0	18.0	
31 Acrylonitrile	53	3.840	3.834	0.006	97	125781	200.0	227.7	
37 Tert-butyl ethyl ether	59	3.980	3.974	0.006	91	164156	20.0	15.2	
35 Vinyl acetate	86	3.998	3.986	0.012	99	19902	40.0	45.1	
40 cis-1,2-Dichloroethene	96	4.266	4.266	0.000	97	79815	20.0	19.0	
38 2,2-Dichloropropane	79	4.369	4.369	0.000	95	33424	20.0	19.4	
46 Chlorobromomethane	128	4.442	4.442	0.000	70	33906	20.0	16.0	
49 Cyclohexane	84	4.455	4.442	0.013	85	117218	20.0	15.9	
48 Chloroform	83	4.509	4.509	0.000	99	121674	20.0	19.8	
42 Ethyl acetate	70	4.619	4.613	0.006	100	8041	40.0	37.5	
43 Methyl acrylate	55	4.625	4.619	0.006	45	30476	20.0	12.8	a
52 Carbon tetrachloride	117	4.643	4.643	0.000	97	99887	20.0	21.6	
45 Tetrahydrofuran	72	4.649	4.661	-0.012	41	10242	40.0	38.8	
$ 51 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	97	151305	50.0	47.3	
50 1,1,1-Trichloroethane	97	4.716	4.716	0.000	94	115614	20.0	19.8	
* 39 2-Butanone-d5	46	4.753	4.753	0.000	0	154970	250.0	250.0	
41 2-Butanone (MEK)	72	4.801	4.807	-0.006	99	23097	100.0	107.5	
53 1,1-Dichloropropene	75	4.820	4.820	0.000	98	93202	20.0	19.2	
54 Isooctane	57	4.917	4.911	0.006	99	156505	20.0	16.7	
61 n-Heptane	57	5.014	5.002	0.012	87	38059	20.0	15.5	
55 Benzene	78	5.063	5.057	0.006	93	296148	20.0	22.5	
44 Propionitrile	54	5.099	5.105	-0.006	92	50435	200.0	246.7	
47 Methacrylonitrile	67	5.118	5.112	0.006	87	164578	200.0	140.3	
57 Tert-amyl methyl ether	73	5.166	5.166	0.000	98	155892	20.0	14.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.203	5.203	0.000	96	134616	50.0	42.1	
58 Isobutyl alcohol	43	5.270	5.270	0.000	55	29025	500.0	499.5	
60 1,2-Dichloroethane	62	5.270	5.276	-0.006	97	67151	20.0	15.8	
* 62 Fluorobenzene	96	5.483	5.483	0.000	99	665178	50.0	50.0	
59 Isopropyl acetate	43	5.513	5.513	0.000	97	61017	20.0	12.2	
65 Methylcyclohexane	83	5.647	5.641	0.006	92	121794	20.0	17.5	
64 Trichloroethene	95	5.659	5.647	0.012	98	72129	20.0	19.8	
66 Ethyl acrylate	55	5.641	5.653	-0.012	76	82878	20.0	25.5	a
63 n-Butanol	56	6.018	6.006	0.012	85	18936	500.0	538.0	
71 Dibromomethane	93	6.115	6.121	-0.006	97	32159	20.0	16.7	
67 1,2-Dichloropropane	63	6.231	6.231	0.000	90	61867	20.0	18.4	
73 Dichlorobromomethane	83	6.304	6.304	0.000	98	76197	20.0	19.0	
69 Methyl methacrylate	100	6.474	6.480	-0.006	87	22022	40.0	24.3	
* 68 1,4-Dioxane-d8	96	6.499	6.499	0.000	90	21141	1000.0	1000.0	
70 1,4-Dioxane	88	6.541	6.523	0.018	70	9718	400.0	366.7	a
72 n-Propyl acetate	43	6.645	6.645	0.000	97	42401	20.0	12.4	
75 2-Chloroethyl vinyl ether	63	6.973	6.973	0.000	96	22799	20.0	13.1	
77 cis-1,3-Dichloropropene	75	7.046	7.040	0.006	90	86116	20.0	19.8	
$ 79 Toluene-d8 (Surr)	98	7.271	7.265	0.006	99	616600	50.0	52.0	
80 Toluene	91	7.332	7.326	0.006	93	304214	20.0	21.0	
76 Epichlorohydrin	57	7.362	7.362	0.000	99	58887	400.0	355.8	
84 Tetrachloroethene	166	7.807	7.819	-0.012	94	73002	20.0	19.7	
74 2-Nitropropane	41	7.837	7.825	0.012	68	36697	40.0	156.6	
78 4-Methyl-2-pentanone (MIBK	43	7.831	7.831	0.000	93	144764	100.0	92.1	
81 trans-1,3-Dichloropropene	75	7.880	7.874	0.006	92	75286	20.0	19.6	
83 1,1,2-Trichloroethane	83	8.080	8.093	-0.012	94	37837	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Ethyl methacrylate	69	8.105	8.099	0.006	79	50160	20.0	13.2	a
88 Chlorodibromomethane	129	8.318	8.318	0.000	97	48237	20.0	19.4	
85 1,3-Dichloropropane	76	8.451	8.445	0.006	92	77298	20.0	16.8	
89 Ethylene Dibromide	107	8.622	8.616	0.006	96	39204	20.0	15.8	
87 n-Butyl acetate	43	8.841	8.841	0.000	97	40352	20.0	11.5	
86 2-Hexanone	58	8.950	8.950	0.000	92	49513	100.0	84.8	
* 90 Chlorobenzene-d5	117	9.254	9.254	0.000	85	462110	50.0	50.0	
91 Chlorobenzene	112	9.273	9.273	0.000	97	182778	20.0	19.3	
92 Ethylbenzene	106	9.315	9.315	0.000	96	102833	20.0	19.7	
93 1,1,1,2-Tetrachloroethane	131	9.352	9.358	-0.006	96	59140	20.0	18.9	
94 m-Xylene & p-Xylene	106	9.486	9.486	0.000	0	113022	20.0	18.0	
96 o-Xylene	106	9.942	9.936	0.006	95	110515	20.0	18.0	
97 Styrene	104	9.997	9.997	0.000	97	177472	20.0	18.7	
99 Bromoform	173	10.015	10.015	0.000	97	21761	20.0	16.0	
95 n-Butyl acrylate	73	10.161	10.155	0.006	98	24473	20.0	13.0	
100 Isopropylbenzene	105	10.258	10.258	0.000	95	311928	20.0	19.3	
98 Amyl acetate (mixed isomer	43	10.410	10.410	0.000	95	55293	20.0	13.2	
$ 101 4-Bromofluorobenzene	174	10.532	10.532	0.000	91	163646	50.0	43.4	
102 Bromobenzene	156	10.617	10.617	0.000	96	73505	20.0	19.3	
104 N-Propylbenzene	91	10.660	10.660	0.000	99	356976	20.0	21.7	
103 1,1,2,2-Tetrachloroethane	83	10.739	10.739	0.000	93	44492	20.0	15.2	
108 4-Ethyltoluene	105	10.763	10.763	0.000	98	298245	20.0	20.9	
107 2-Chlorotoluene	91	10.794	10.794	0.000	96	258546	20.0	22.5	
109 1,3,5-Trimethylbenzene	105	10.842	10.842	0.000	94	262746	20.0	21.3	
105 1,2,3-Trichloropropane	110	10.848	10.854	-0.006	55	15942	20.0	15.6	
106 trans-1,4-Dichloro-2-buten	53	10.897	10.891	0.006	87	9277	20.0	12.4	
110 4-Chlorotoluene	91	10.946	10.946	0.000	97	232375	20.0	22.9	
112 tert-Butylbenzene	119	11.122	11.122	0.000	92	225082	20.0	21.3	
111 Butyl Methacrylate	87	11.122	11.128	-0.006	57	64445	20.0	17.7	
113 1,2,4-Trimethylbenzene	105	11.189	11.189	0.000	97	277017	20.0	21.3	
114 sec-Butylbenzene	105	11.280	11.280	0.000	99	319215	20.0	20.8	
115 4-Isopropyltoluene	119	11.408	11.408	0.000	98	273451	20.0	19.8	
116 1,3-Dichlorobenzene	146	11.457	11.463	-0.006	96	148225	20.0	19.2	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	94	247899	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.536	11.536	0.000	95	153359	20.0	19.9	
134 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	97	286256	20.0	20.5	
120 2,3-Dihydroindene	117	11.670	11.670	0.000	92	281600	20.0	20.1	
121 p-Diethylbenzene	119	11.712	11.712	0.000	96	165888	20.0	22.3	
119 Benzyl chloride	126	11.749	11.749	0.000	91	18516	20.0	15.6	
122 n-Butylbenzene	92	11.755	11.755	0.000	95	142320	20.0	21.5	
123 1,2-Dichlorobenzene	146	11.883	11.883	0.000	97	141866	20.0	18.7	
124 1,2,4,5-Tetramethylbenzene	119	12.357	12.357	0.000	97	262397	20.0	20.0	
125 1,2-Dibromo-3-Chloropropan	155	12.527	12.527	0.000	94	7572	20.0	14.5	
126 1,3,5-Trichlorobenzene	180	12.546	12.540	0.006	97	118244	20.0	19.7	
128 Hexachlorobutadiene	225	13.008	13.008	0.000	92	38044	20.0	19.9	
127 1,2,4-Trichlorobenzene	180	13.038	13.038	0.000	94	102083	20.0	18.2	
129 Naphthalene	128	13.294	13.294	0.000	99	171069	20.0	14.1	
130 1,2,3-Trichlorobenzene	180	13.446	13.446	0.000	97	92224	20.0	17.7	
S 131 1,2-Dichloroethene, Total	100				0		40.0	34.9	
S 132 Xylenes, Total	100				0		40.0	36.0	
S 133 Total BTEX	1				0		100.0	99.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

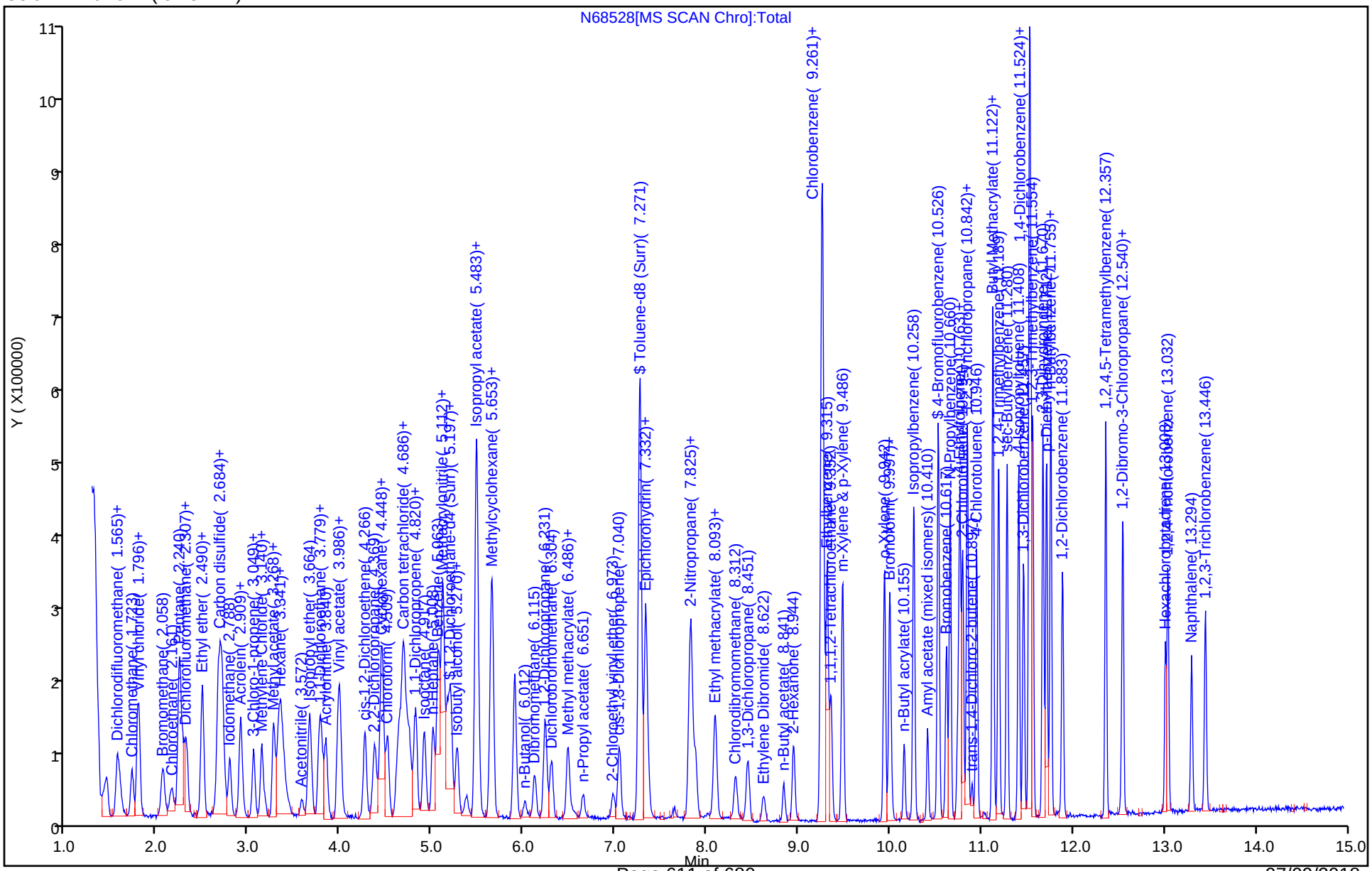
Report Date: 03-Jul-2018 13:48:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D

Injection Date:	03-Jul-2018 08:48:30	Instrument ID:	CVOAMS11	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260W_11	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

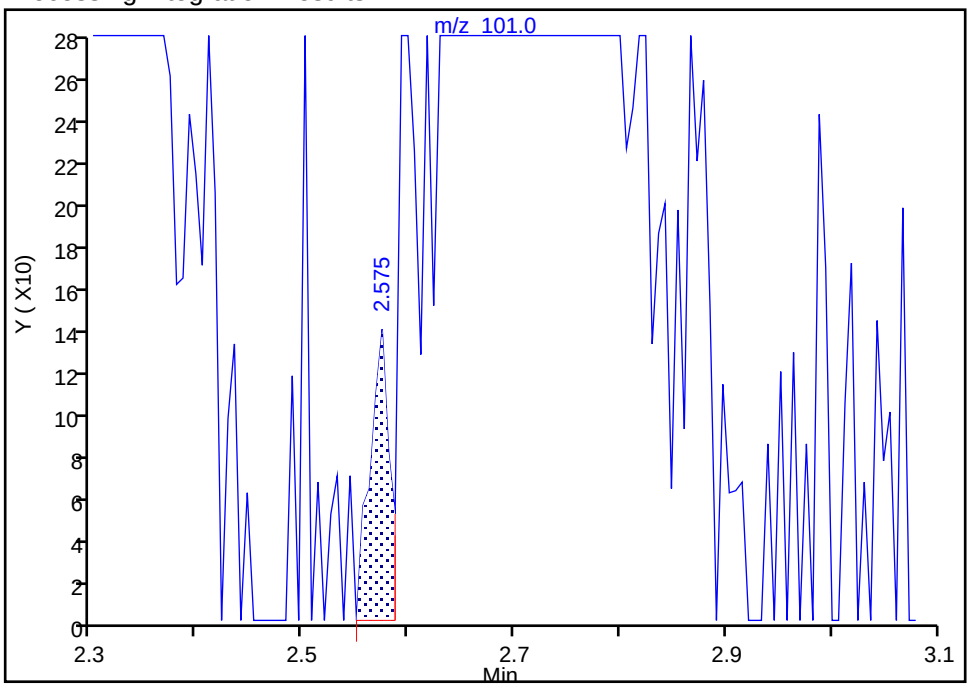
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D
Injection Date: 03-Jul-2018 08:48:30 Instrument ID: CVOAMS11
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

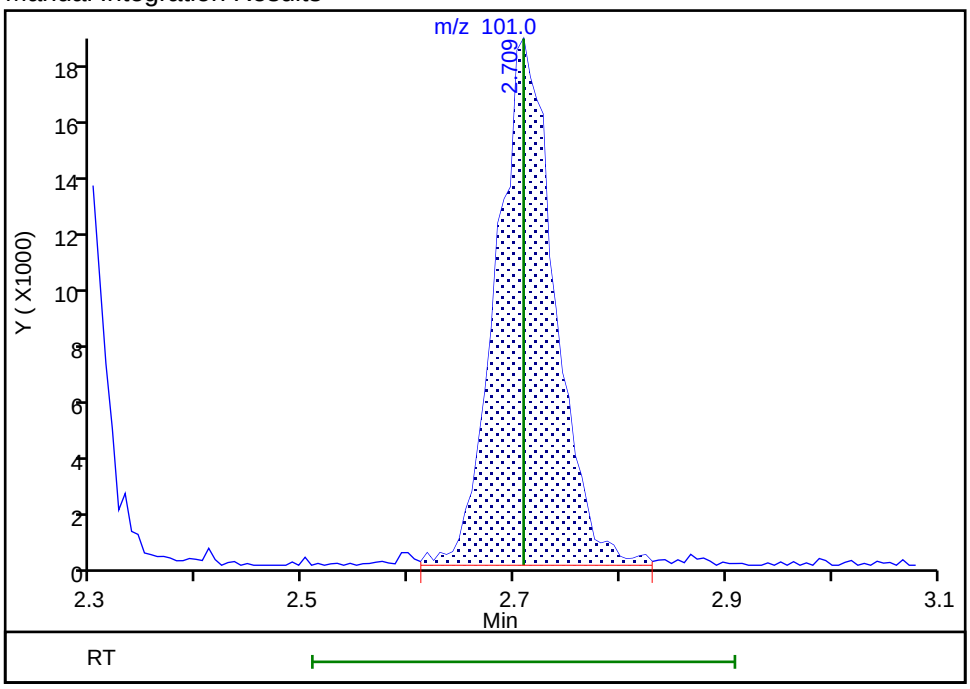
Processing Integration Results

RT: 2.57
Area: 178
Amount: 0.042233
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 72139
Amount: 17.116108
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:34:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

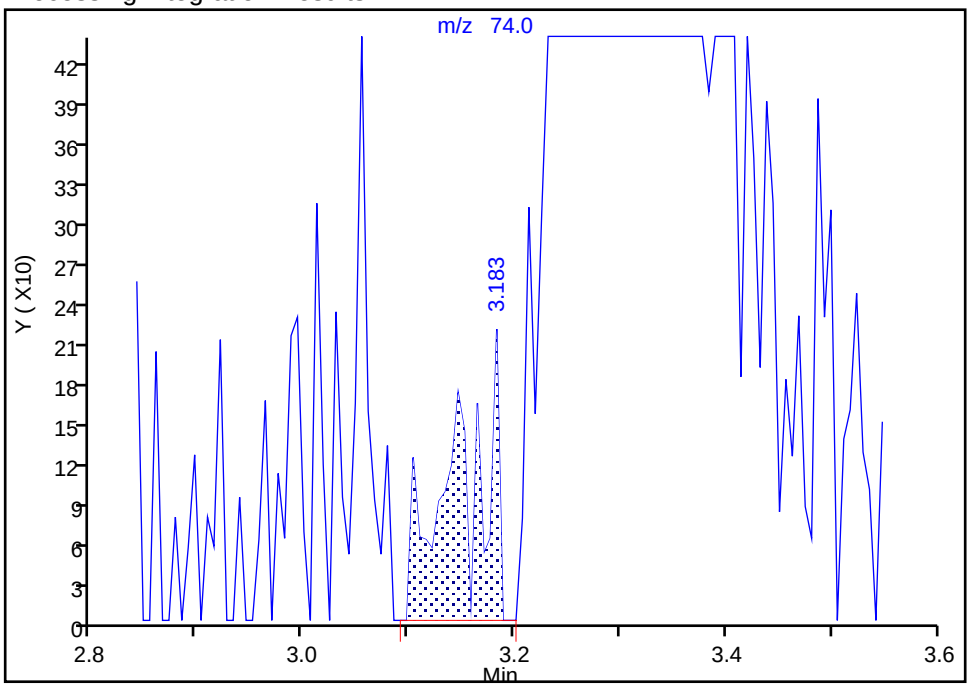
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D
Injection Date: 03-Jul-2018 08:48:30 Instrument ID: CVOAMS11
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

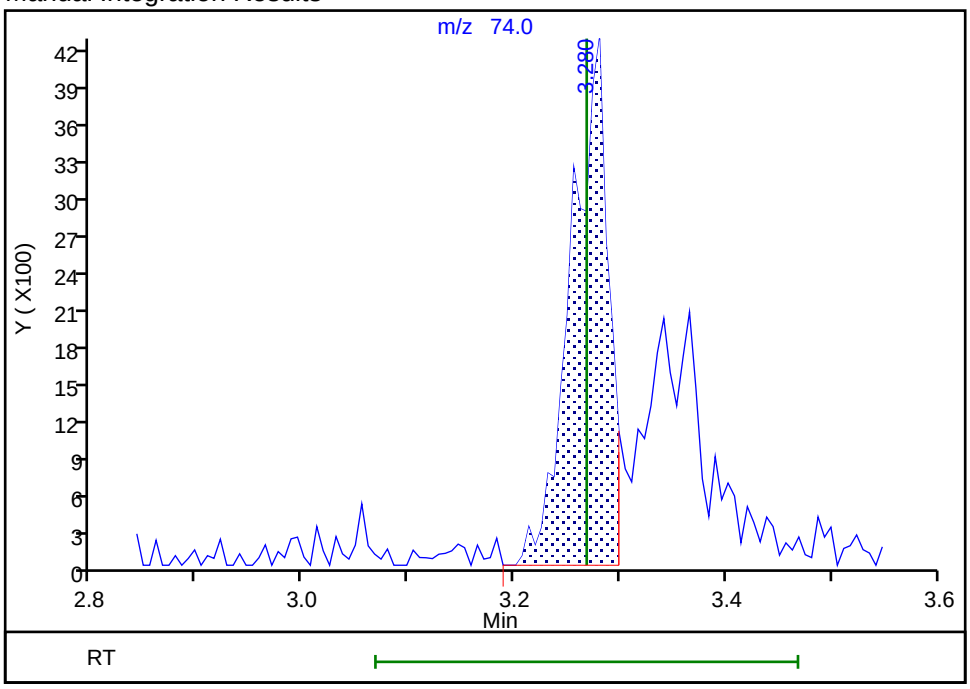
Processing Integration Results

RT: 3.18
Area: 517
Amount: 2.069228
Amount Units: ug/l



Manual Integration Results

RT: 3.28
Area: 10480
Amount: 41.944902
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:35:05
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

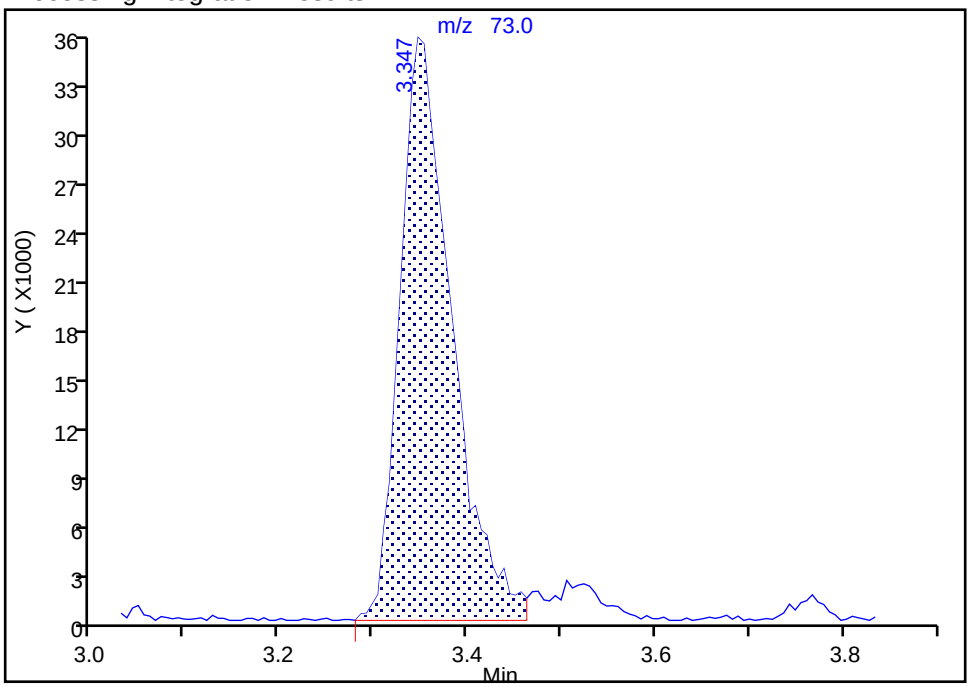
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D
Injection Date: 03-Jul-2018 08:48:30 Instrument ID: CVOAMS11
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Signal: 1

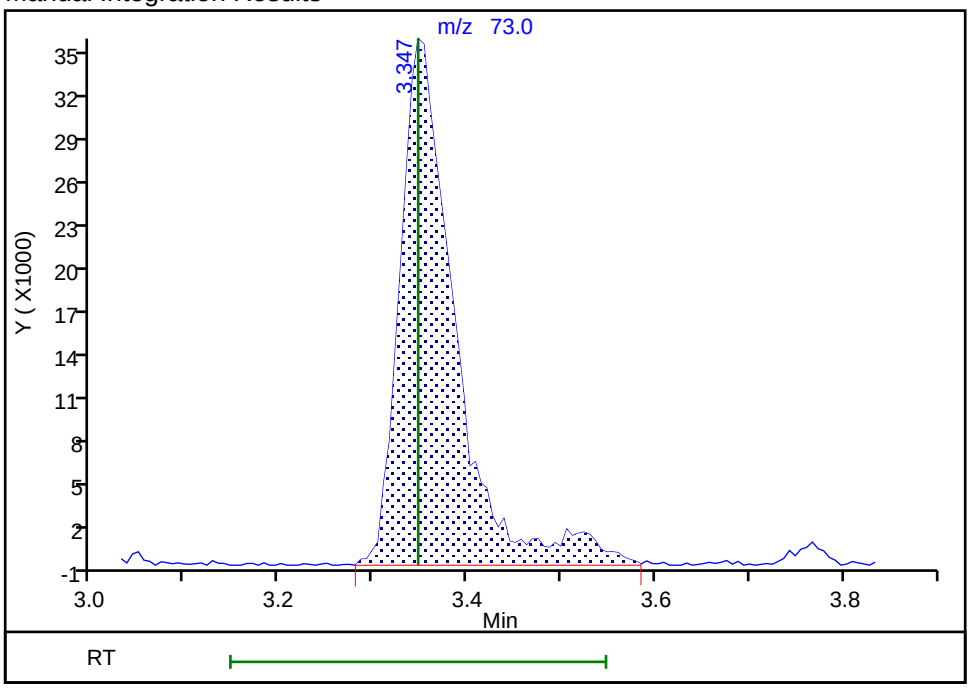
Processing Integration Results

RT: 3.35
Area: 134119
Amount: 12.905586
Amount Units: ug/l



Manual Integration Results

RT: 3.35
Area: 143641
Amount: 13.821839
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 13:47:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

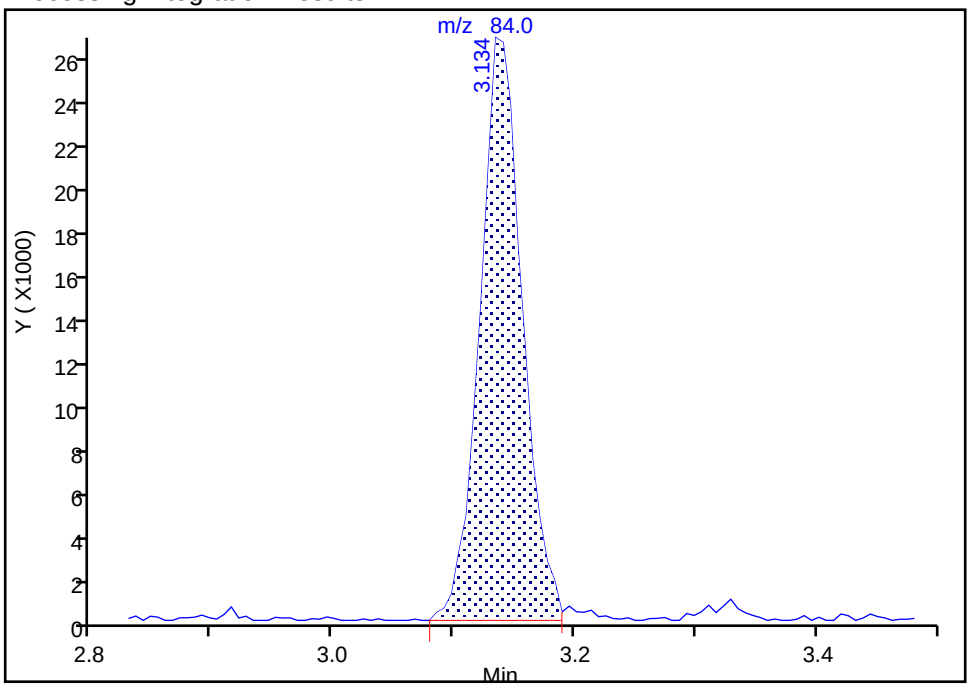
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68528.D
Injection Date: 03-Jul-2018 08:48:30 Instrument ID: CVOAMS11
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

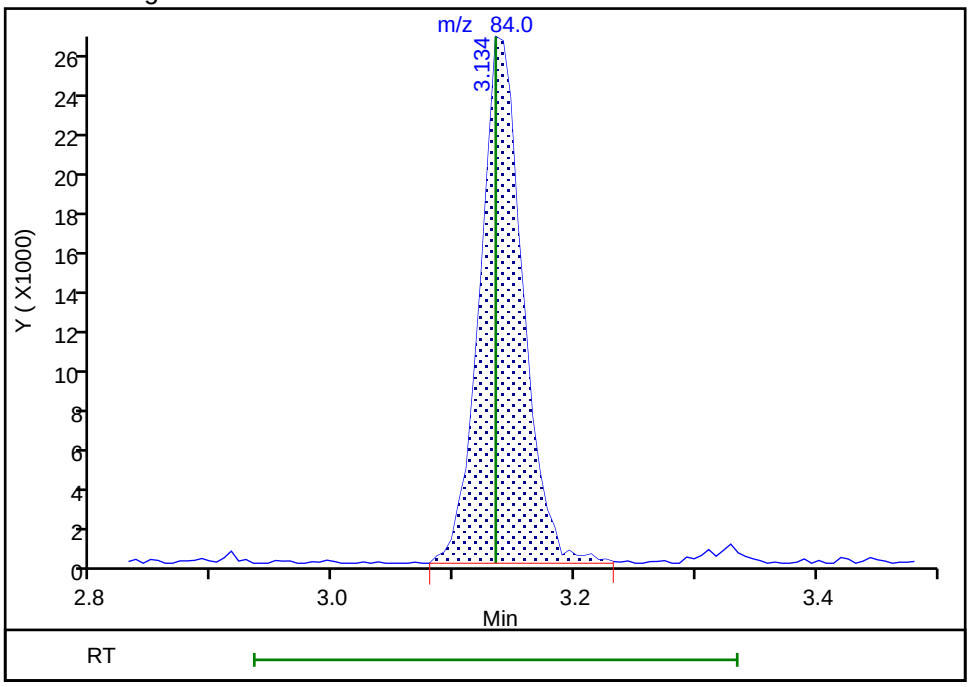
Processing Integration Results

RT: 3.13
Area: 65194
Amount: 15.616709
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 66041
Amount: 15.819601
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 13:47:40
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533363/4

Matrix: Solid | Lab File ID: K86036.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 00:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.6		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	16.4		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.0		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.2		1.0	0.18
75-34-3	1,1-Dichloroethane	21.2		1.0	0.21
75-35-4	1,1-Dichloroethene	20.4		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	18.7		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	13.7		1.0	0.46
95-50-1	1,2-Dichlorobenzene	18.6		1.0	0.14
107-06-2	1,2-Dichloroethane	21.0		1.0	0.30
78-87-5	1,2-Dichloropropane	20.0		1.0	0.42
541-73-1	1,3-Dichlorobenzene	18.2		1.0	0.16
106-46-7	1,4-Dichlorobenzene	18.1		1.0	0.10
78-93-3	2-Butanone (MEK)	89.2		5.0	1.1
591-78-6	2-Hexanone	91.3		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	93.5		5.0	0.66
67-64-1	Acetone	94.0		5.0	3.8
71-43-2	Benzene	18.3		1.0	0.26
75-25-2	Bromoform	14.0		1.0	0.43
74-83-9	Bromomethane	25.6		1.0	0.47
75-15-0	Carbon disulfide	19.8		1.0	0.27
56-23-5	Carbon tetrachloride	20.5		1.0	0.18
108-90-7	Chlorobenzene	18.8		1.0	0.18
124-48-1	Dibromochloromethane	14.9		1.0	0.19
75-00-3	Chloroethane	26.1		1.0	0.52
67-66-3	Chloroform	21.7		1.0	0.32
74-87-3	Chloromethane	23.6		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.15
110-82-7	Cyclohexane	20.5		1.0	0.22
75-27-4	Bromodichloromethane	19.0		1.0	0.26
75-71-8	Dichlorodifluoromethane	22.0		1.0	0.34
100-41-4	Ethylbenzene	18.0		1.0	0.20
106-93-4	1,2-Dibromoethane	17.7		1.0	0.18
98-82-8	Isopropylbenzene	18.7		1.0	0.13
79-20-9	Methyl acetate	36.7		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533363/4

Matrix: Solid | Lab File ID: K86036.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 00:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.2		1.0	0.13
108-87-2	Methylcyclohexane	20.7		1.0	0.16
75-09-2	Methylene Chloride	20.3		1.0	0.16
127-18-4	Tetrachloroethene	21.0		1.0	0.14
108-88-3	Toluene	18.4		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	20.6		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	16.5		1.0	0.27
79-01-6	Trichloroethene	20.6		1.0	0.14
75-69-4	Trichlorofluoromethane	25.5		1.0	0.41
75-01-4	Vinyl chloride	24.1		1.0	0.55
1330-20-7	Xylenes, Total	36.3		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	16.8		1.0	0.27
100-42-5	Styrene	18.2		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		78-135
460-00-4	4-Bromofluorobenzene	109		67-126
2037-26-5	Toluene-d8 (Surr)	98		73-121
1868-53-7	Dibromofluoromethane (Surr)	116		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86036.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Jul-2018 00:59:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074846-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:25:01 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: starzecm Date: 04-Jul-2018 10:53:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	92	48404	20.0	20.0	
2 Dichlorodifluoromethane	85	1.639	1.633	0.007	99	119610	20.0	22.0	
3 Chloromethane	50	1.815	1.815	0.000	99	122885	20.0	23.6	
4 Vinyl chloride	62	1.907	1.907	0.000	98	119818	20.0	24.1	
5 Butadiene	54	1.901	1.907	-0.006	79	101253	20.0	24.7	
6 Bromomethane	94	2.212	2.212	0.000	97	87787	20.0	25.6	
7 Chloroethane	64	2.279	2.279	0.000	100	62900	20.0	26.1	
8 Trichlorofluoromethane	101	2.462	2.456	0.006	73	148826	20.0	25.5	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	97	172967	20.0	22.8	
10 Pentane	72	2.498	2.498	0.000	98	23539	40.0	39.4	
12 Ethanol	46	2.718	2.681	0.037	72	16347	800.0	621.1	
11 Ethyl ether	59	2.693	2.693	0.000	93	53449	20.0	19.0	
13 2-Methyl-1,3-butadiene	53	2.718	2.718	0.000	98	67613	20.0	22.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.742	0.012	95	67541	20.0	20.5	
15 Acrolein	56	2.876	2.876	0.000	97	163838	300.0	243.1	
16 1,1,2-Trichloro-1,2,2-trif	101	2.913	2.901	0.012	91	89475	20.0	23.0	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	99	70809	20.0	20.4	
18 Acetone	43	3.004	2.998	0.006	86	107689	100.0	94.0	
19 Iodomethane	142	3.077	3.071	0.006	99	150904	20.0	22.3	
22 Isopropyl alcohol	45	3.083	3.090	-0.007	30	62828	200.0	159.3	a
20 Carbon disulfide	76	3.114	3.114	0.000	99	269142	20.0	19.8	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	97	48606	20.0	20.7	
23 Methyl acetate	43	3.248	3.242	0.006	97	103839	40.0	36.7	
24 Cyclopentene	67	3.260	3.260	0.000	94	189857	20.0	21.4	
29 Acetonitrile	41	3.309	3.309	0.000	94	132211	200.0	185.5	a
26 Methylene Chloride	84	3.370	3.370	0.000	94	86979	20.0	20.3	
* 25 TBA-d9 (IS)	65	3.376	3.370	0.006	0	418962	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.425	0.012	91	108711	200.0	176.9	
28 Methyl tert-butyl ether	73	3.522	3.528	-0.006	97	216253	20.0	20.2	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	96	81548	20.0	20.6	
31 Acrylonitrile	53	3.632	3.632	0.000	94	265374	200.0	200.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.711	0.006	94	76071	20.0	19.7	
33 Isopropyl ether	45	3.925	3.919	0.006	96	259960	20.0	20.3	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	70	145759	20.0	21.2	
35 Vinyl acetate	86	3.973	3.967	0.006	100	24171	40.0	33.5	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	92	69216	20.0	20.7	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	229372	20.0	19.9	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	322534	250.0	250.0	
39 2,2-Dichloropropane	79	4.467	4.473	-0.006	95	38511	20.0	19.1	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	94	90696	20.0	20.5	
41 Ethyl acetate	70	4.504	4.498	0.006	92	13551	40.0	31.1	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	96	40965	100.0	89.2	
44 Methyl acrylate	55	4.559	4.559	0.000	98	55500	20.0	19.1	
43 Propionitrile	54	4.644	4.644	0.000	98	108258	200.0	188.3	
45 Tetrahydrofuran	72	4.736	4.729	0.007	64	20055	40.0	37.6	
46 Chlorobromomethane	128	4.736	4.729	0.007	78	44265	20.0	21.0	
47 Methacrylonitrile	67	4.742	4.742	0.000	94	283885	200.0	203.5	
48 Chloroform	83	4.778	4.778	0.000	98	144910	20.0	21.7	
49 Cyclohexane	84	4.918	4.918	0.000	93	121279	20.0	20.5	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	91	128944	20.0	21.6	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	198479	50.0	58.0	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	109457	20.0	20.5	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	97	108429	20.0	20.9	
56 Isobutyl alcohol	74	5.187	5.187	0.000	94	9151	500.0	352.5	
54 Benzene	78	5.278	5.278	0.000	95	307514	20.0	18.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	193899	50.0	55.9	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	229540	20.0	19.4	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	68098	20.0	20.1	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	97	97135	20.0	21.0	
60 n-Heptane	57	5.424	5.418	0.006	95	74900	20.0	20.6	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	501013	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	90	57851	500.0	364.5	
63 Trichloroethene	95	5.930	5.930	0.000	97	79202	20.0	20.6	
64 Ethyl acrylate	56	6.052	6.052	0.000	97	50783	20.0	20.4	
65 Methylcyclohexane	83	6.058	6.058	0.000	94	151171	20.0	20.7	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	93	77704	20.0	20.0	
* 67 1,4-Dioxane-d8	96	6.278	6.272	0.006	0	33562	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	91	83204	40.0	37.1	
69 1,4-Dioxane	88	6.327	6.327	0.000	30	18274	400.0	364.1	
70 n-Propyl acetate	43	6.333	6.327	0.006	98	98618	20.0	18.9	
71 Dibromomethane	93	6.357	6.351	0.006	96	48082	20.0	20.4	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	93702	20.0	19.0	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	81	37727	20.0	18.6	
74 2-Nitropropane	41	6.833	6.833	0.000	79	22998	40.0	24.2	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	133510	400.0	337.3	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	92	108431	20.0	16.8	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	98	375882	100.0	93.5	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	675132	50.0	48.8	
79 Toluene	91	7.333	7.327	0.006	93	316652	20.0	18.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	93056	20.0	16.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	90	81442	20.0	15.7	
82 1,1,2-Trichloroethane	83	7.900	7.893	0.007	96	52703	20.0	18.2	
83 Tetrachloroethene	166	7.954	7.948	0.006	98	86557	20.0	21.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.107	0.006	90	95581	20.0	17.4	
85 2-Hexanone	43	8.156	8.156	0.000	97	229859	100.0	91.3	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	104514	20.0	17.3	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	61287	20.0	14.9	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	61315	20.0	17.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	85	446438	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	96	202932	20.0	18.8	
92 Ethylbenzene	106	9.180	9.186	-0.006	98	109739	20.0	18.0	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	92	78882	20.0	17.8	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	133887	20.0	17.9	
94 n-Butyl acrylate	73	9.765	9.765	0.000	97	46586	20.0	15.0	
95 o-Xylene	106	9.802	9.802	0.000	93	142833	20.0	18.4	
96 Styrene	104	9.832	9.832	0.000	96	223483	20.0	18.2	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	89	124986	20.0	15.8	
98 Bromoform	173	10.070	10.070	0.000	96	36320	20.0	14.0	
99 Isopropylbenzene	105	10.186	10.186	0.000	96	384030	20.0	18.7	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	222567	50.0	54.3	
101 Bromobenzene	156	10.545	10.545	0.000	93	94062	20.0	18.0	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.582	0.006	98	89984	20.0	16.4	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	450376	20.0	17.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	23907	20.0	17.0	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	90	21587	20.0	16.0	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	377684	20.0	17.7	
106 2-Chlorotoluene	91	10.728	10.728	0.000	92	302551	20.0	17.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	72	322931	20.0	17.0	
109 4-Chlorotoluene	91	10.838	10.838	0.000	97	251662	20.0	16.8	
110 Butyl Methacrylate	87	10.887	10.881	0.006	92	96837	20.0	15.0	
111 tert-Butylbenzene	119	11.088	11.088	0.000	94	258427	20.0	17.2	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	336254	20.0	17.2	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	431464	20.0	17.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	373263	20.0	17.5	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	97	185112	20.0	18.2	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	-0.001	93	272017	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	185510	20.0	18.1	
118 Benzyl chloride	91	11.655	11.655	0.000	99	165398	20.0	14.7	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	343342	20.0	17.7	
120 p-Diethylbenzene	119	11.759	11.759	0.000	92	221411	20.0	18.6	a
121 n-Butylbenzene	92	11.783	11.783	0.000	97	205103	20.0	17.7	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	191946	20.0	18.6	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	359741	20.0	16.9	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	-0.001	94	15632	20.0	13.7	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	167115	20.0	18.8	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	159029	20.0	18.7	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	79325	20.0	19.2	
128 Naphthalene	128	13.319	13.319	0.000	99	355531	20.0	17.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	153147	20.0	18.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.1	
S 131 Xylenes, Total	100				0		40.0	36.3	
S 132 Total BTEX	1				0		100.0	90.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

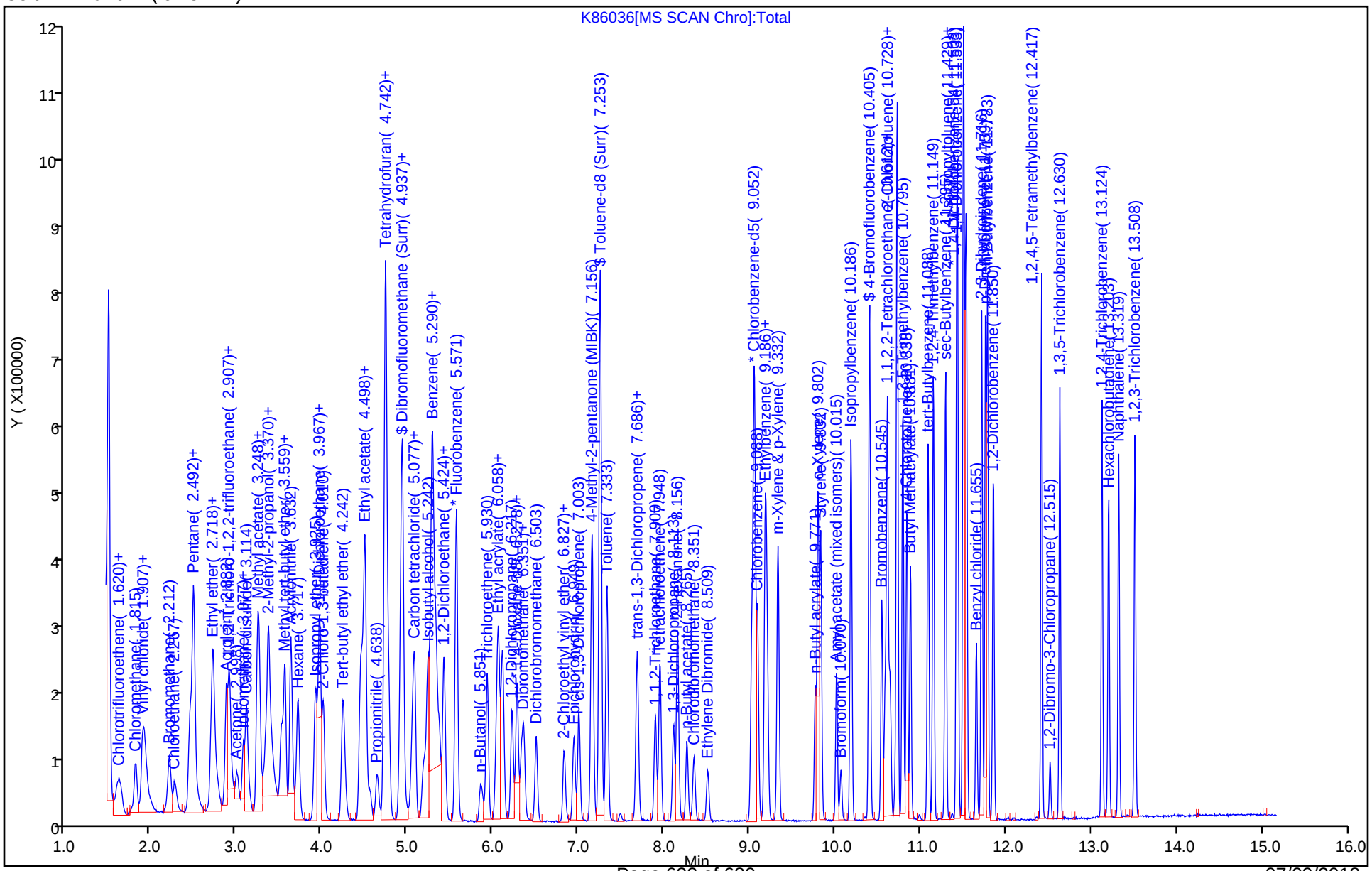
Report Date: 06-Jul-2018 01:25:03 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86036.D

Injection Date:	04-Jul-2018 00:59:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533394/4

Matrix: Water | Lab File ID: F67239.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 08:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533394 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	17.4		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	16.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	16.6		1.0	0.43
75-34-3	1,1-Dichloroethane	17.3		1.0	0.26
75-35-4	1,1-Dichloroethene	17.1		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	20.8		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.2		1.0	0.43
107-06-2	1,2-Dichloroethane	16.6		1.0	0.43
78-87-5	1,2-Dichloropropane	17.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	18.5		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.76
78-93-3	2-Butanone (MEK)	96.7		5.0	1.9
591-78-6	2-Hexanone	83.7		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	91.6		5.0	2.7
67-64-1	Acetone	86.8		5.0	5.0
71-43-2	Benzene	16.9		1.0	0.43
75-25-2	Bromoform	20.3		1.0	0.54
74-83-9	Bromomethane	18.2		1.0	1.0
75-15-0	Carbon disulfide	17.1		1.0	0.16
56-23-5	Carbon tetrachloride	18.5		1.0	0.21
108-90-7	Chlorobenzene	18.5		1.0	0.38
124-48-1	Dibromochloromethane	18.0		1.0	0.28
75-00-3	Chloroethane	17.3		1.0	0.32
67-66-3	Chloroform	17.9		1.0	0.33
74-87-3	Chloromethane	16.2		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	18.9		1.0	0.22
110-82-7	Cyclohexane	18.8		1.0	0.32
75-27-4	Bromodichloromethane	17.4		1.0	0.34
75-71-8	Dichlorodifluoromethane	16.9		1.0	0.12
100-41-4	Ethylbenzene	17.3		1.0	0.30
106-93-4	1,2-Dibromoethane	17.5		1.0	0.50
98-82-8	Isopropylbenzene	18.7		1.0	0.34
79-20-9	Methyl acetate	34.5		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533394/4

Matrix: Water | Lab File ID: F67239.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 08:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533394 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	18.3		1.0	0.47
108-87-2	Methylcyclohexane	18.2		1.0	0.26
75-09-2	Methylene Chloride	18.2		1.0	0.32
127-18-4	Tetrachloroethene	18.6		1.0	0.25
108-88-3	Toluene	17.5		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	18.2		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	16.3		1.0	0.49
79-01-6	Trichloroethene	17.5		1.0	0.31
75-69-4	Trichlorofluoromethane	16.4		1.0	0.14
75-01-4	Vinyl chloride	17.1		1.0	0.17
1330-20-7	Xylenes, Total	36.1		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	16.2		1.0	0.46
100-42-5	Styrene	19.2		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		74-132
460-00-4	4-Bromofluorobenzene	105		77-124
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67239.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 04-Jul-2018 08:25:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074850-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 19:24:51 Calib Date: 05-Jun-2018 05:09:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180604-73199.b\F65712.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK027

First Level Reviewer: xuyvo Date: 06-Jul-2018 18:14:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	87	34086	20.0	17.7	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	81937	20.0	16.9	
3 Chloromethane	50	1.738	1.747	-0.009	99	85539	20.0	16.2	
5 Butadiene	54	1.829	1.829	0.000	95	78673	20.0	18.6	
4 Vinyl chloride	62	1.829	1.837	-0.008	98	85165	20.0	17.1	
6 Bromomethane	94	2.108	2.108	0.000	98	59770	20.0	18.2	
7 Chloroethane	64	2.166	2.174	-0.008	100	49533	20.0	17.3	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	99	113928	20.0	15.7	
10 Pentane	72	2.355	2.355	0.000	97	19031	40.0	37.8	
9 Trichlorofluoromethane	101	2.355	2.363	-0.008	57	85579	20.0	16.4	
11 Ethanol	46	2.535	2.544	-0.009	73	5163	800.0	767.2	
12 Ethyl ether	59	2.544	2.544	0.000	95	41311	20.0	17.5	
13 2-Methyl-1,3-butadiene	53	2.560	2.568	-0.008	96	43099	20.0	15.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	94	48506	20.0	18.5	
15 Acrolein	56	2.716	2.724	-0.008	30	3464	40.0	13.4	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	98	55169	20.0	18.1	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	49057	20.0	17.1	
18 Acetone	43	2.839	2.848	-0.009	89	62042	100.0	86.8	
19 Iodomethane	142	2.905	2.905	0.000	97	97258	20.0	19.2	
20 Isopropyl alcohol	45	2.930	2.938	-0.008	96	28608	200.0	286.7	
21 Carbon disulfide	76	2.938	2.946	-0.008	99	192384	20.0	17.1	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	93	98378	20.0	16.3	
24 Methyl acetate	43	3.069	3.078	-0.009	63	61929	40.0	34.5	
23 Cyclopentene	67	3.078	3.086	-0.008	93	130869	20.0	17.6	
25 Acetonitrile	41	3.135	3.143	-0.008	95	63612	200.0	234.9	Ma
27 Methylene Chloride	84	3.185	3.185	0.000	91	63178	20.0	18.2	
* 26 TBA-d9 (IS)	65	3.217	3.193	0.024	0	65732	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.283	3.258	0.025	91	44335	200.0	233.3	M
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	97	157626	20.0	18.3	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	92	58031	20.0	18.2	
31 Acrylonitrile	53	3.439	3.447	-0.008	96	192124	200.0	181.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.521	-0.008	92	41952	20.0	15.1	
33 Isopropyl ether	45	3.719	3.727	-0.008	96	184322	20.0	17.2	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	100328	20.0	17.3	
35 Vinyl acetate	86	3.768	3.768	0.000	100	20983	40.0	38.6	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	91	49306	20.0	18.1	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	171448	20.0	17.4	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	73482	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.269	-0.008	92	20845	20.0	18.0	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	98	66451	20.0	18.9	
42 Ethyl acetate	70	4.286	4.294	-0.008	94	8997	40.0	35.0	
41 2-Butanone (MEK)	72	4.294	4.294	0.000	97	25355	100.0	96.7	
43 Methyl acrylate	55	4.343	4.351	-0.008	99	37056	20.0	16.2	
44 Propionitrile	54	4.425	4.425	0.000	98	66784	200.0	228.1	
45 Chlorobromomethane	128	4.499	4.499	0.000	88	31575	20.0	19.9	
46 Tetrahydrofuran	72	4.499	4.499	0.000	55	11789	40.0	37.0	
47 Methacrylonitrile	67	4.516	4.516	0.000	91	191816	200.0	184.3	
48 Chloroform	83	4.549	4.549	0.000	99	95053	20.0	17.9	
49 Cyclohexane	84	4.680	4.680	0.000	90	87563	20.0	18.8	
50 1,1,1-Trichloroethane	97	4.696	4.696	0.000	98	81954	20.0	17.4	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	98	52830	50.0	50.7	
52 Carbon tetrachloride	117	4.811	4.811	0.000	96	69943	20.0	18.5	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	72219	20.0	17.2	
54 Isobutyl alcohol	43	4.992	4.992	0.000	43	65579	500.0	509.0	a
55 Benzene	78	5.033	5.033	0.000	95	227945	20.0	16.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	55465	50.0	43.8	
57 Isopropyl acetate	43	5.083	5.091	-0.008	83	142168	20.0	17.5	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	88	184187	20.0	18.5	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	65971	20.0	16.6	
60 n-Heptane	57	5.173	5.181	-0.008	90	40425	20.0	17.8	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	211232	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	86	16678	500.0	621.3	
63 Trichloroethene	95	5.674	5.674	0.000	97	54491	20.0	17.5	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	126412	20.0	18.3	
64 Methylcyclohexane	83	5.798	5.798	0.000	88	98843	20.0	18.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	93	57009	20.0	17.6	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	6858	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	88	23907	40.0	38.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	55484	20.0	17.7	
69 1,4-Dioxane	88	6.077	6.085	-0.008	25	7542	400.0	269.5	
71 Dibromomethane	93	6.093	6.093	0.000	92	31855	20.0	17.5	
72 Dichlorobromomethane	83	6.233	6.241	-0.008	99	70248	20.0	17.4	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	76	25422	20.0	16.1	
73 2-Nitropropane	41	6.570	6.570	0.000	80	19915	40.0	34.0	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	84289	400.0	390.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	81124	20.0	16.2	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	218115	100.0	91.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	208054	50.0	45.9	
79 Toluene	91	7.055	7.055	0.000	93	237378	20.0	17.5	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	67329	20.0	16.3	
81 Ethyl methacrylate	69	7.433	7.424	0.009	89	59667	20.0	17.2	
82 1,1,2-Trichloroethane	83	7.622	7.613	0.009	95	38400	20.0	16.6	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	59759	20.0	18.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	73994	20.0	17.1	
85 2-Hexanone	43	7.893	7.893	0.000	95	115210	100.0	83.7	
86 n-Butyl acetate	43	8.008	8.008	0.000	99	65496	20.0	15.8	
87 Chlorodibromomethane	129	8.065	8.065	0.000	97	50623	20.0	18.0	
88 Ethylene Dibromide	107	8.221	8.213	0.008	99	41982	20.0	17.5	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	84	155879	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	96	151442	20.0	18.5	
91 Ethylbenzene	106	8.895	8.895	0.000	98	83880	20.0	17.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	94	58480	20.0	18.7	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	104032	20.0	18.0	
94 n-Butyl acrylate	73	9.495	9.487	0.008	97	36025	20.0	15.6	
95 o-Xylene	106	9.503	9.503	0.000	95	108347	20.0	18.1	
96 Styrene	104	9.536	9.536	0.000	97	172183	20.0	19.2	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	91	82900	20.0	15.5	
98 Bromoform	173	9.742	9.742	0.000	98	34709	20.0	20.3	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	279806	20.0	18.7	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	94	67471	50.0	52.4	
101 Bromobenzene	156	10.144	10.152	-0.008	96	72336	20.0	18.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	63671	20.0	16.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	100	319094	20.0	16.9	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	96	18073	20.0	17.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	79	12926	20.0	13.6	
106 2-Chlorotoluene	91	10.300	10.292	0.008	91	223826	20.0	16.9	
107 4-Ethyltoluene	105	10.300	10.300	0.000	89	270322	20.0	17.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	237099	20.0	17.2	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	197698	20.0	16.7	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	75525	20.0	15.8	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	181972	20.0	16.7	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	245756	20.0	17.6	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	290459	20.0	17.5	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	98	260194	20.0	18.3	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	98	141131	20.0	18.5	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	92	94718	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	96	149352	20.0	19.2	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	256764	20.0	17.4	
118 Benzyl chloride	91	11.023	11.023	0.000	99	126535	20.0	17.5	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	267552	20.0	18.6	
120 p-Diethylbenzene	119	11.097	11.097	0.000	95	153093	20.0	18.2	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	133270	20.0	17.2	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	145524	20.0	19.2	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.582	-0.008	98	242013	20.0	17.6	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.664	-0.008	94	11344	20.0	16.3	
125 1,3,5-Trichlorobenzene	180	11.738	11.747	-0.009	98	113602	20.0	19.5	
126 1,2,4-Trichlorobenzene	180	12.141	12.149	-0.008	94	104198	20.0	20.8	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	97	45436	20.0	19.6	
128 Naphthalene	128	12.314	12.322	-0.008	99	227236	20.0	19.9	
129 1,2,3-Trichlorobenzene	180	12.478	12.486	-0.008	96	93178	20.0	20.1	
S 130 1,2-Dichloroethene, Total	100				0		40.0	37.0	
S 131 Xylenes, Total	100				0		40.0	36.1	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

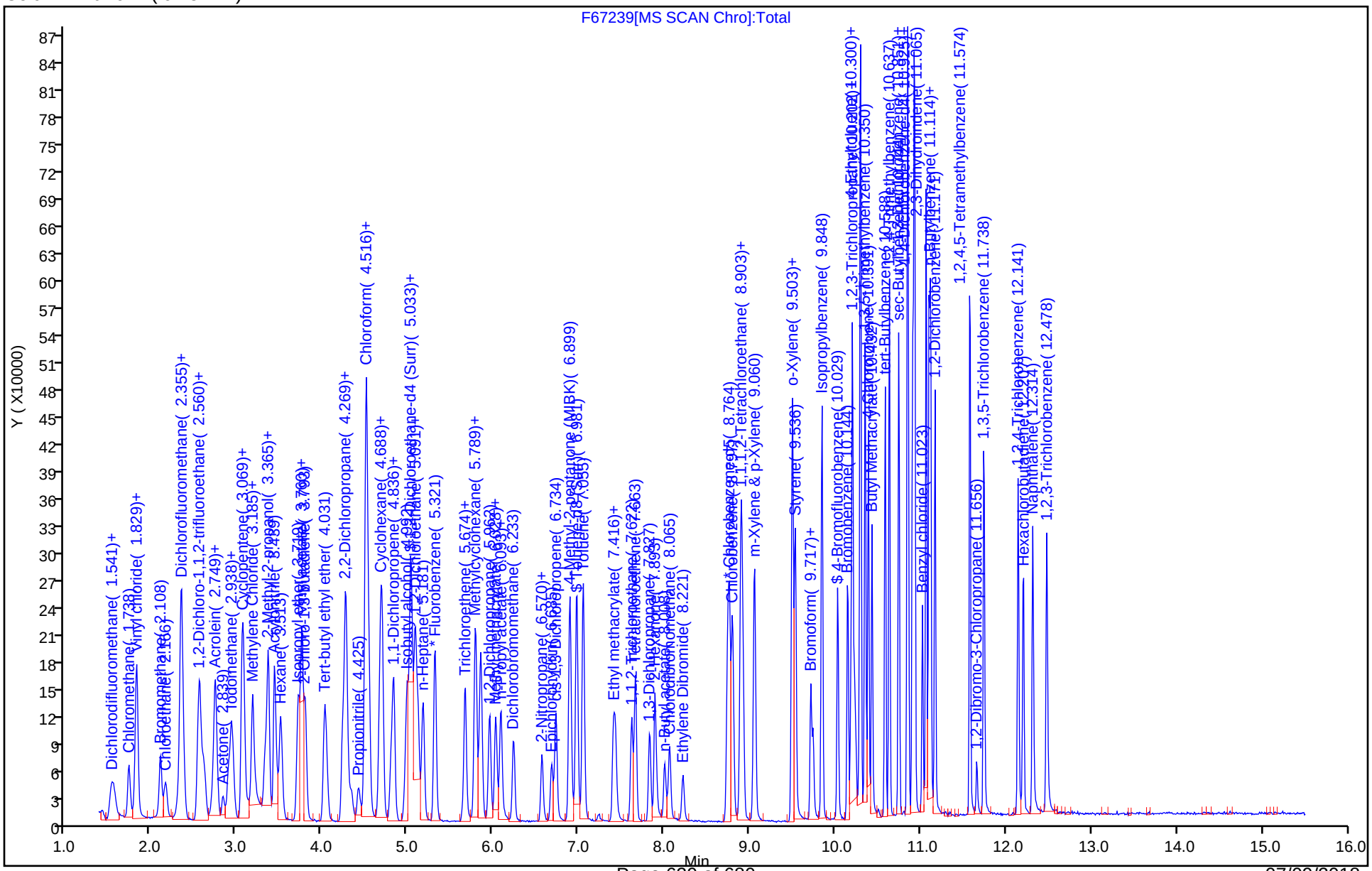
Report Date: 06-Jul-2018 19:24:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180704-74850.b\F67239.D

Injection Date:	04-Jul-2018 08:25:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533092/5

Matrix: Water | Lab File ID: N68529.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 09:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	17.7		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	16.8		1.0	0.43
75-34-3	1,1-Dichloroethane	22.7		1.0	0.26
75-35-4	1,1-Dichloroethene	20.1		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	18.8		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	14.1		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.0		1.0	0.43
107-06-2	1,2-Dichloroethane	17.3		1.0	0.43
78-87-5	1,2-Dichloropropane	22.0		1.0	0.35
541-73-1	1,3-Dichlorobenzene	21.4		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.5		1.0	0.76
78-93-3	2-Butanone (MEK)	112		5.0	1.9
591-78-6	2-Hexanone	94.0		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	93.2		5.0	2.7
67-64-1	Acetone	110		5.0	5.0
71-43-2	Benzene	22.2		1.0	0.43
75-25-2	Bromoform	18.0		1.0	0.54
74-83-9	Bromomethane	21.5		1.0	1.0
75-15-0	Carbon disulfide	19.6		1.0	0.16
56-23-5	Carbon tetrachloride	23.8		1.0	0.21
108-90-7	Chlorobenzene	21.4		1.0	0.38
124-48-1	Dibromochloromethane	19.0		1.0	0.28
75-00-3	Chloroethane	22.0		1.0	0.32
67-66-3	Chloroform	22.2		1.0	0.33
74-87-3	Chloromethane	31.1		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	22.6		1.0	0.22
110-82-7	Cyclohexane	18.7		1.0	0.32
75-27-4	Bromodichloromethane	21.2		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.5		1.0	0.12
100-41-4	Ethylbenzene	20.9		1.0	0.30
106-93-4	1,2-Dibromoethane	16.8		1.0	0.50
98-82-8	Isopropylbenzene	20.6		1.0	0.34
79-20-9	Methyl acetate	51.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533092/5

Matrix: Water | Lab File ID: N68529.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/03/2018 09:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533092 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	17.4		1.0	0.47
108-87-2	Methylcyclohexane	18.5		1.0	0.26
75-09-2	Methylene Chloride	21.0		1.0	0.32
127-18-4	Tetrachloroethene	19.2		1.0	0.25
108-88-3	Toluene	20.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	21.4		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.49
79-01-6	Trichloroethene	21.7		1.0	0.31
75-69-4	Trichlorofluoromethane	20.5		1.0	0.14
75-01-4	Vinyl chloride	20.4		1.0	0.17
1330-20-7	Xylenes, Total	38.4		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.8		1.0	0.46
100-42-5	Styrene	19.5		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	94		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68529.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 03-Jul-2018 09:10:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0074795-005
Operator ID: Instrument ID: CVOAMS11

Method: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\8260W_11.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 03-Jul-2018 13:48:14 Calib Date: 05-Jun-2018 11:19:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS11\20180605-73222.b\N672378.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 03-Jul-2018 12:51:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.547	1.553	-0.006	85	51148	20.0	17.6	
2 Dichlorodifluoromethane	87	1.571	1.577	-0.006	98	37872	20.0	20.5	
3 Chloromethane	52	1.711	1.723	-0.012	99	30734	20.0	31.1	
5 Butadiene	54	1.778	1.790	-0.012	74	71750	20.0	19.0	
4 Vinyl chloride	62	1.784	1.790	-0.006	97	91904	20.0	20.4	
6 Bromomethane	94	2.045	2.052	-0.007	99	58319	20.0	21.5	
7 Chloroethane	64	2.137	2.155	-0.018	98	48939	20.0	22.0	
10 Pentane	72	2.234	2.234	0.000	97	27157	40.0	63.0	
9 Trichlorofluoromethane	101	2.258	2.271	-0.013	98	122694	20.0	20.5	
8 Dichlorofluoromethane	67	2.307	2.313	-0.006	98	140616	20.0	20.4	
12 Ethyl ether	59	2.483	2.490	-0.007	61	42158	20.0	16.8	
13 2-Methyl-1,3-butadiene	53	2.483	2.490	-0.007	95	49636	20.0	17.5	
11 Ethanol	46	2.623	2.629	-0.006	78	6778	800.0	666.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.654	2.654	0.000	85	73773	20.0	19.4	
17 1,1-Dichloroethene	96	2.660	2.666	-0.006	97	64824	20.0	20.1	
20 Carbon disulfide	76	2.690	2.696	-0.006	99	222320	20.0	19.6	
15 1,1,2-Trichloro-1,2,2-trif	101	2.709	2.709	0.000	94	75971	20.0	19.4	a
19 Iodomethane	142	2.782	2.788	-0.006	99	120855	20.0	19.4	
23 Cyclopentene	67	2.903	2.903	0.000	96	167529	20.0	20.9	
16 Acrolein	56	2.934	2.934	0.000	92	12264	40.0	45.1	
21 Isopropyl alcohol	45	3.055	3.037	0.018	13	20436	200.0	203.6	a
22 3-Chloro-1-propene	76	3.037	3.055	-0.018	95	40416	20.0	20.9	
26 Methylene Chloride	84	3.128	3.134	-0.006	89	81571	20.0	21.0	
18 Acetone	58	3.165	3.177	-0.012	88	17620	100.0	110.0	
24 Methyl acetate	74	3.262	3.268	-0.006	53	15110	40.0	51.1	
30 trans-1,2-Dichloroethene	96	3.256	3.268	-0.012	91	79287	20.0	21.4	
32 Hexane	56	3.317	3.323	-0.006	92	54875	20.0	19.5	
29 Methyl tert-butyl ether	73	3.341	3.347	-0.006	96	167516	20.0	17.4	
* 27 TBA-d9 (IS)	65	3.347	3.353	-0.006	92	160354	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.414	3.420	-0.006	92	38671	200.0	198.2	
25 Acetonitrile	40	3.585	3.566	0.019	99	31238	200.0	283.2	a

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Isopropyl ether	45	3.658	3.658	0.000	94	205854	20.0	19.7	
36 2-Chloro-1,3-butadiene	88	3.755	3.761	-0.006	87	62912	20.0	21.4	
34 1,1-Dichloroethane	63	3.785	3.785	0.000	99	129398	20.0	22.7	
31 Acrylonitrile	53	3.828	3.834	-0.006	98	157148	200.0	240.4	
37 Tert-butyl ethyl ether	59	3.962	3.974	-0.012	93	189769	20.0	18.9	
35 Vinyl acetate	86	3.992	3.986	0.006	100	23217	40.0	51.6	
40 cis-1,2-Dichloroethene	96	4.260	4.266	-0.006	95	88190	20.0	22.6	
38 2,2-Dichloropropane	79	4.363	4.369	-0.006	95	35832	20.0	22.3	
46 Chlorobromomethane	128	4.448	4.442	0.006	72	36011	20.0	18.3	
49 Cyclohexane	84	4.448	4.442	0.006	86	128422	20.0	18.7	
48 Chloroform	83	4.509	4.509	0.000	99	126897	20.0	22.2	
42 Ethyl acetate	70	4.607	4.613	-0.006	99	8901	40.0	40.8	
43 Methyl acrylate	55	4.619	4.619	0.000	98	32490	20.0	14.6	
52 Carbon tetrachloride	117	4.637	4.643	-0.006	97	102328	20.0	23.8	
45 Tetrahydrofuran	72	4.667	4.661	0.006	41	10705	40.0	39.8	a
$ 51 Dibromofluoromethane (Surr	113	4.680	4.680	0.000	97	152014	50.0	51.1	
50 1,1,1-Trichloroethane	97	4.704	4.716	-0.012	94	123184	20.0	22.8	
* 39 2-Butanone-d5	46	4.747	4.753	-0.006	0	157966	250.0	250.0	
41 2-Butanone (MEK)	72	4.789	4.807	-0.018	98	24572	100.0	112.2	M
53 1,1-Dichloropropene	75	4.813	4.820	-0.007	99	87948	20.0	19.5	
54 Isooctane	57	4.911	4.911	0.000	99	157636	20.0	18.2	
61 n-Heptane	57	5.002	5.002	0.000	88	39224	20.0	17.2	
55 Benzene	78	5.063	5.057	0.006	93	303079	20.0	22.2	
44 Propionitrile	54	5.093	5.105	-0.012	95	52412	200.0	216.7	
47 Methacrylonitrile	67	5.112	5.112	0.000	88	167378	200.0	153.6	
57 Tert-amyl methyl ether	73	5.166	5.166	0.000	97	163769	20.0	16.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.203	5.203	0.000	96	128944	50.0	43.4	
58 Isobutyl alcohol	43	5.270	5.270	0.000	55	30919	500.0	449.7	
60 1,2-Dichloroethane	62	5.264	5.276	-0.012	97	68274	20.0	17.3	
* 62 Fluorobenzene	96	5.483	5.483	0.000	99	617829	50.0	50.0	
59 Isopropyl acetate	43	5.507	5.513	-0.006	98	63421	20.0	13.7	
65 Methylcyclohexane	83	5.641	5.641	0.000	91	119121	20.0	18.5	
64 Trichloroethene	95	5.653	5.647	0.006	96	73498	20.0	21.7	
66 Ethyl acrylate	55	5.641	5.653	-0.012	75	83383	20.0	27.6	a
63 n-Butanol	56	6.012	6.006	0.006	92	19135	500.0	459.5	
71 Dibromomethane	93	6.109	6.121	-0.012	95	34432	20.0	19.2	
67 1,2-Dichloropropane	63	6.231	6.231	0.000	91	68502	20.0	22.0	
73 Dichlorobromomethane	83	6.298	6.304	-0.006	98	78917	20.0	21.2	
69 Methyl methacrylate	100	6.468	6.480	-0.012	82	24831	40.0	29.5	
* 68 1,4-Dioxane-d8	96	6.493	6.499	-0.006	86	20912	1000.0	1000.0	
70 1,4-Dioxane	88	6.529	6.523	0.006	37	9955	400.0	379.8	
72 n-Propyl acetate	43	6.639	6.645	-0.006	96	42517	20.0	13.4	
75 2-Chloroethyl vinyl ether	63	6.973	6.973	0.000	91	24696	20.0	15.3	
77 cis-1,3-Dichloropropene	75	7.040	7.040	0.000	90	89534	20.0	19.8	
$ 79 Toluene-d8 (Surr)	98	7.265	7.265	0.000	99	576100	50.0	46.8	
80 Toluene	91	7.332	7.326	0.006	92	303644	20.0	20.2	
76 Epichlorohydrin	57	7.363	7.362	0.000	98	60677	400.0	359.7	a
84 Tetrachloroethene	166	7.813	7.819	-0.006	97	73871	20.0	19.2	
74 2-Nitropropane	41	7.831	7.825	0.006	66	35708	40.0	128.8	
78 4-Methyl-2-pentanone (MIBK	43	7.831	7.831	0.000	93	149341	100.0	93.2	
81 trans-1,3-Dichloropropene	75	7.880	7.874	0.006	92	75760	20.0	19.0	
83 1,1,2-Trichloroethane	83	8.086	8.093	-0.006	92	36614	20.0	16.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
82 Ethyl methacrylate	69	8.099	8.099	0.000	88	52145	20.0	14.8	
88 Chlorodibromomethane	129	8.312	8.318	-0.006	96	49017	20.0	19.0	
85 1,3-Dichloropropane	76	8.439	8.445	-0.006	91	81738	20.0	17.1	
89 Ethylene Dibromide	107	8.616	8.616	0.000	97	43300	20.0	16.8	
87 n-Butyl acetate	43	8.841	8.841	0.000	97	45463	20.0	12.5	
86 2-Hexanone	58	8.950	8.950	0.000	94	55951	100.0	94.0	
* 90 Chlorobenzene-d5	117	9.254	9.254	0.000	85	480133	50.0	50.0	
91 Chlorobenzene	112	9.273	9.273	0.000	98	209675	20.0	21.4	
92 Ethylbenzene	106	9.315	9.315	0.000	96	113220	20.0	20.9	
93 1,1,1,2-Tetrachloroethane	131	9.352	9.358	-0.006	93	70588	20.0	21.7	
94 m-Xylene & p-Xylene	106	9.480	9.486	-0.006	0	128068	20.0	19.7	
96 o-Xylene	106	9.936	9.936	0.000	95	119385	20.0	18.7	
97 Styrene	104	9.997	9.997	0.000	97	191786	20.0	19.5	
99 Bromoform	173	10.015	10.015	0.000	97	26052	20.0	18.0	
95 n-Butyl acrylate	73	10.155	10.155	0.000	98	30245	20.0	15.5	
100 Isopropylbenzene	105	10.258	10.258	0.000	95	346697	20.0	20.6	
98 Amyl acetate (mixed isomer	43	10.410	10.410	0.000	95	64987	20.0	14.7	
$ 101 4-Bromofluorobenzene	174	10.526	10.532	-0.006	90	182427	50.0	46.6	
102 Bromobenzene	156	10.617	10.617	0.000	97	88491	20.0	21.9	
104 N-Propylbenzene	91	10.654	10.660	-0.006	99	406178	20.0	23.3	
103 1,1,2,2-Tetrachloroethane	83	10.739	10.739	0.000	97	55000	20.0	17.7	
108 4-Ethyltoluene	105	10.763	10.763	0.000	98	349141	20.0	23.0	
107 2-Chlorotoluene	91	10.794	10.794	0.000	95	290010	20.0	23.8	
109 1,3,5-Trimethylbenzene	105	10.842	10.842	0.000	94	299005	20.0	22.8	
105 1,2,3-Trichloropropane	110	10.854	10.854	0.000	77	18061	20.0	16.7	
106 trans-1,4-Dichloro-2-buten	53	10.897	10.891	0.006	89	11829	20.0	14.9	
110 4-Chlorotoluene	91	10.946	10.946	0.000	97	250746	20.0	23.3	
112 tert-Butylbenzene	119	11.122	11.122	0.000	93	251527	20.0	22.5	
111 Butyl Methacrylate	87	11.128	11.128	0.000	53	75547	20.0	19.6	
113 1,2,4-Trimethylbenzene	105	11.189	11.189	0.000	97	316235	20.0	22.9	
114 sec-Butylbenzene	105	11.280	11.280	0.000	99	369983	20.0	22.7	
115 4-Isopropyltoluene	119	11.408	11.408	0.000	98	319635	20.0	21.8	
116 1,3-Dichlorobenzene	146	11.457	11.463	-0.006	97	175363	20.0	21.4	
* 117 1,4-Dichlorobenzene-d4	152	11.524	11.524	0.000	93	263045	50.0	50.0	
118 1,4-Dichlorobenzene	146	11.536	11.536	0.000	95	176121	20.0	21.5	
134 1,2,3-Trimethylbenzene	105	11.560	11.560	0.000	98	337399	20.0	22.7	
120 2,3-Dihydroindene	117	11.670	11.670	0.000	94	323385	20.0	21.8	
121 p-Diethylbenzene	119	11.706	11.712	-0.006	96	186561	20.0	23.6	
119 Benzyl chloride	126	11.755	11.749	0.006	94	22981	20.0	18.3	
122 n-Butylbenzene	92	11.755	11.755	0.000	94	158321	20.0	22.6	
123 1,2-Dichlorobenzene	146	11.883	11.883	0.000	97	161244	20.0	20.0	
124 1,2,4,5-Tetramethylbenzene	119	12.357	12.357	0.000	97	291160	20.0	20.9	
125 1,2-Dibromo-3-Chloropropan	155	12.534	12.527	0.007	93	7860	20.0	14.1	
126 1,3,5-Trichlorobenzene	180	12.546	12.540	0.006	97	130592	20.0	20.5	
128 Hexachlorobutadiene	225	13.008	13.008	0.000	90	41016	20.0	20.2	
127 1,2,4-Trichlorobenzene	180	13.038	13.038	0.000	94	111961	20.0	18.8	
129 Naphthalene	128	13.294	13.294	0.000	99	192823	20.0	15.0	
130 1,2,3-Trichlorobenzene	180	13.446	13.446	0.000	94	98893	20.0	17.9	
S 131 1,2-Dichloroethene, Total	100				0		40.0	43.9	
S 132 Xylenes, Total	100				0		40.0	38.4	
S 133 Total BTEX	1				0		100.0	101.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00176	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 03-Jul-2018 13:48:41 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68529.D

Injection Date: 03-Jul-2018 09:10:30 Instrument ID: CVOAMS11 Operator ID:

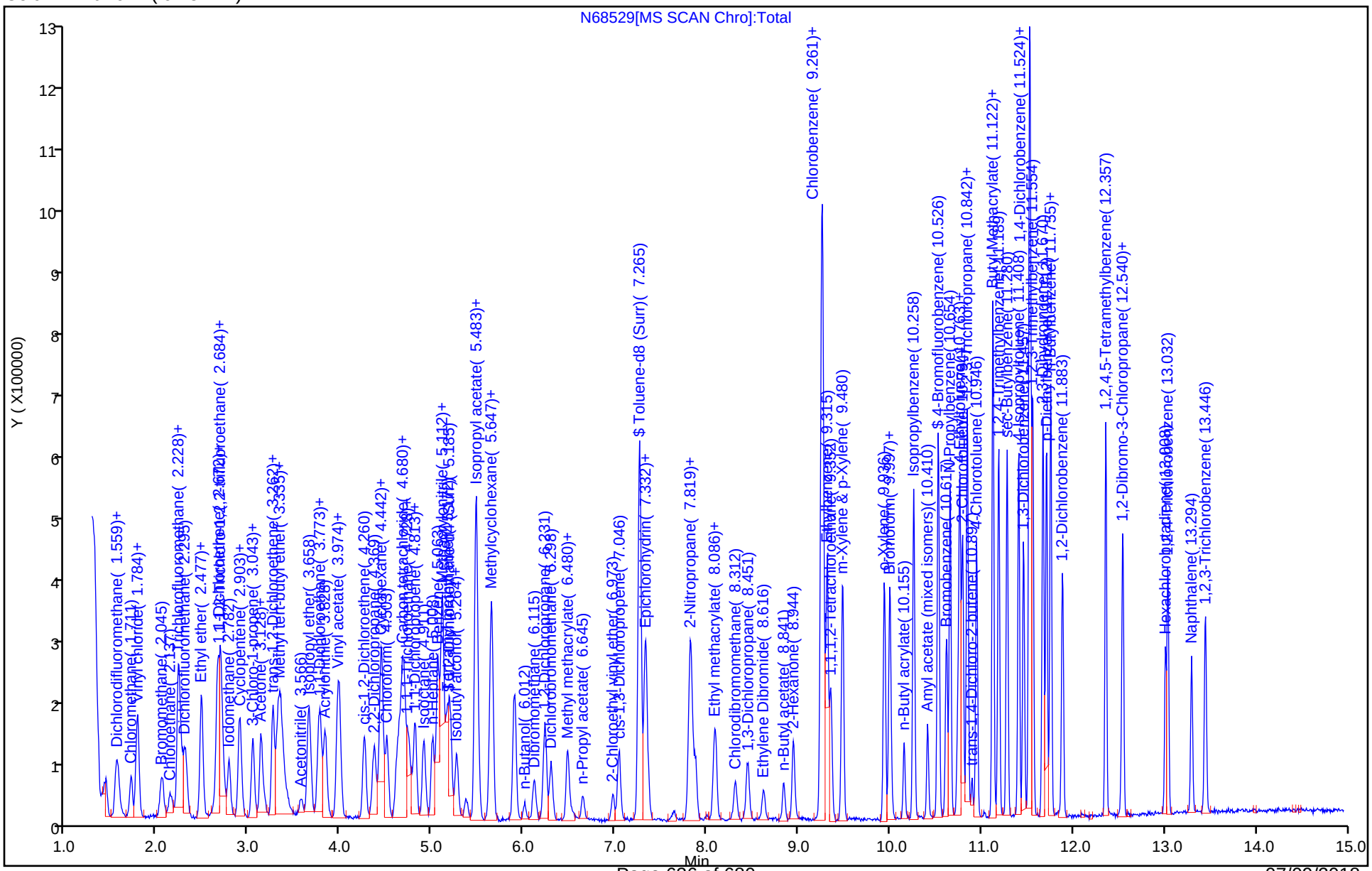
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

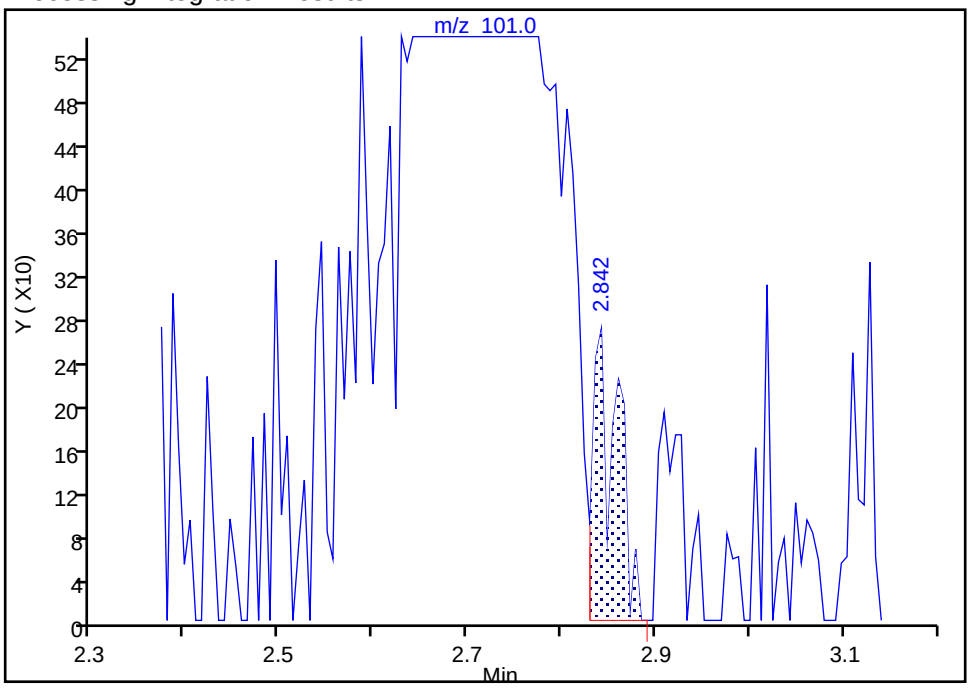
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68529.D
Injection Date: 03-Jul-2018 09:10:30 Instrument ID: CVOAMS11
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

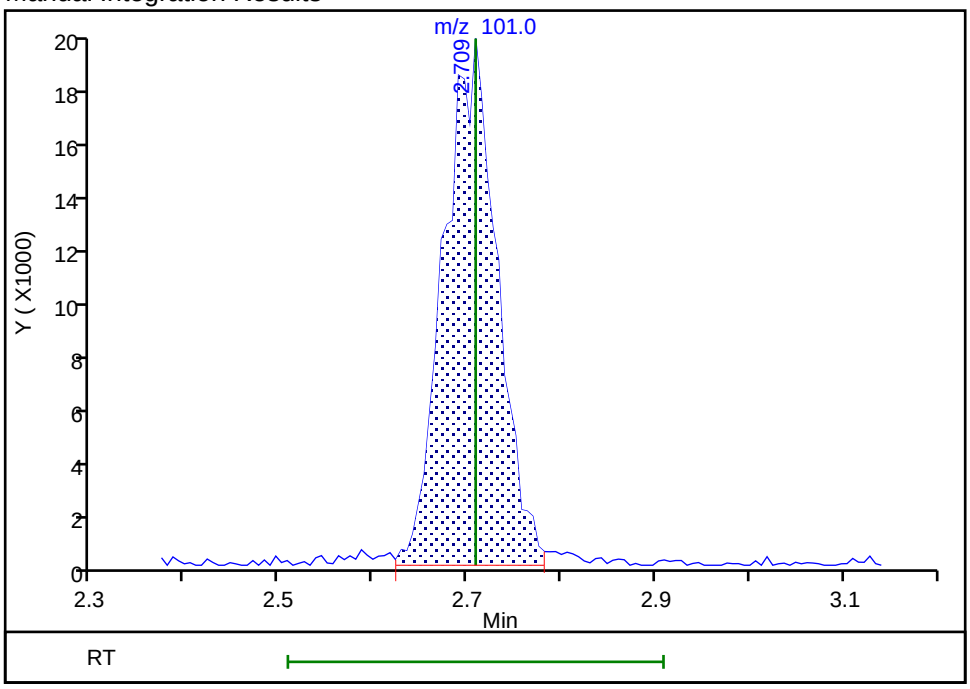
Processing Integration Results

RT: 2.84
Area: 487
Amount: 0.124404
Amount Units: ug/l



Manual Integration Results

RT: 2.71
Area: 75971
Amount: 19.406728
Amount Units: ug/l



Reviewer: tupayachia, 03-Jul-2018 09:36:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

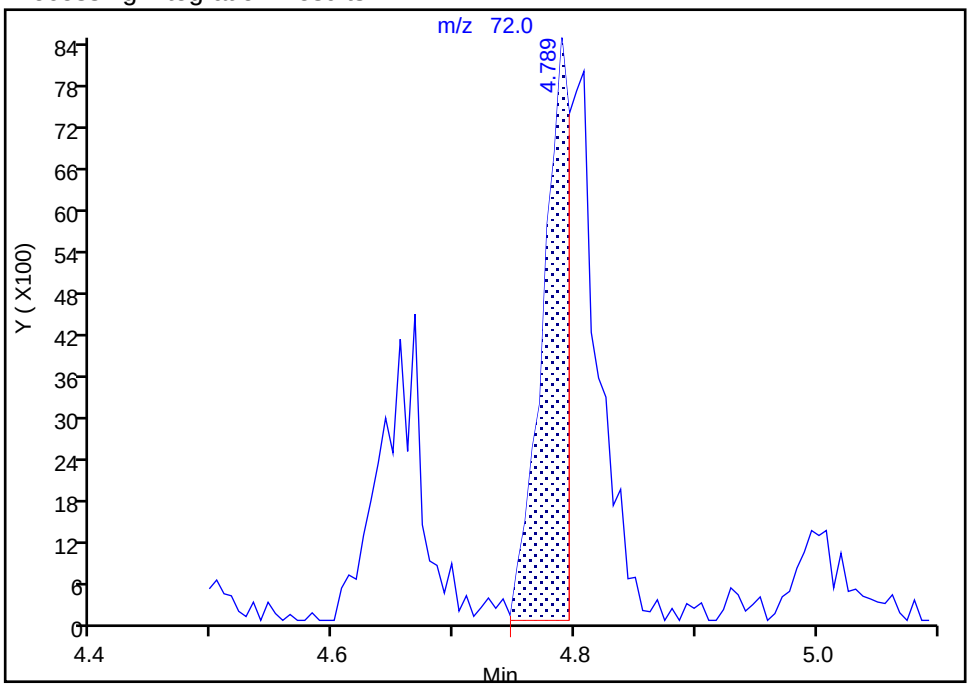
Data File: \\ChromNA\Edison\ChromData\CVOAMS11\20180703-74795.b\N68529.D
Injection Date: 03-Jul-2018 09:10:30 Instrument ID: CVOAMS11
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_11 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

41 2-Butanone (MEK), CAS: 78-93-3

Signal: 1

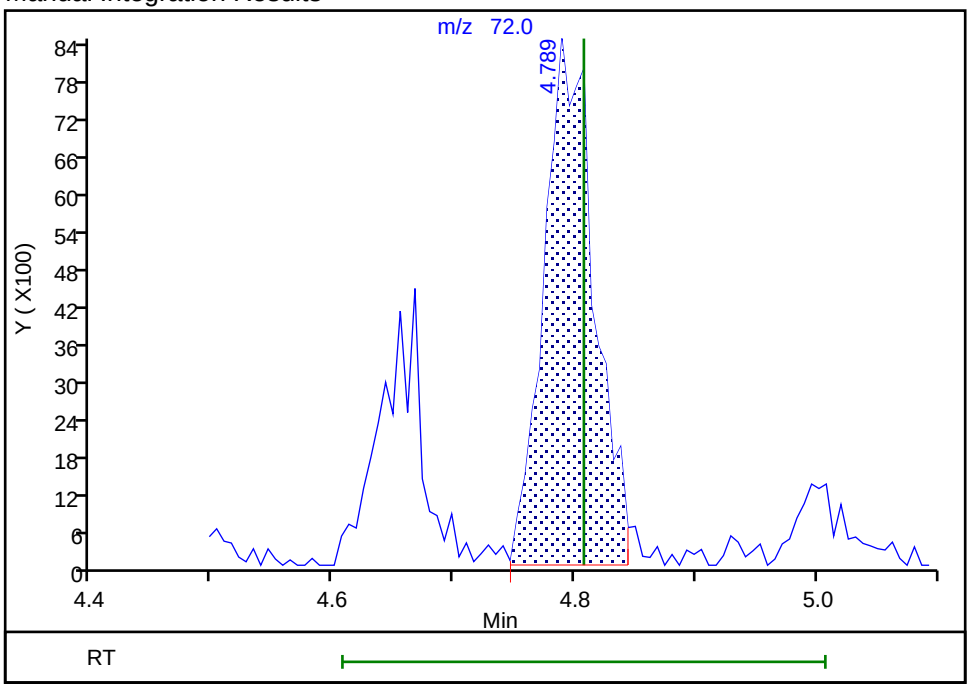
Processing Integration Results

RT: 4.79
Area: 13322
Amount: 60.836744
Amount Units: ug/l



Manual Integration Results

RT: 4.79
Area: 24572
Amount: 112.2114
Amount Units: ug/l



Reviewer: delpolitov, 03-Jul-2018 12:51:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533363/5

Matrix: Solid | Lab File ID: K86037.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 01:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	22.3		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	16.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.5		1.0	0.30
79-00-5	1,1,2-Trichloroethane	18.6		1.0	0.18
75-34-3	1,1-Dichloroethane	21.2		1.0	0.21
75-35-4	1,1-Dichloroethene	21.6		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.1		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	13.4		1.0	0.46
95-50-1	1,2-Dichlorobenzene	18.7		1.0	0.14
107-06-2	1,2-Dichloroethane	21.1		1.0	0.30
78-87-5	1,2-Dichloropropane	19.7		1.0	0.42
541-73-1	1,3-Dichlorobenzene	18.8		1.0	0.16
106-46-7	1,4-Dichlorobenzene	18.6		1.0	0.10
78-93-3	2-Butanone (MEK)	89.5		5.0	1.1
591-78-6	2-Hexanone	90.8		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	93.1		5.0	0.66
67-64-1	Acetone	99.6		5.0	3.8
71-43-2	Benzene	18.9		1.0	0.26
75-25-2	Bromoform	14.0		1.0	0.43
74-83-9	Bromomethane	25.8		1.0	0.47
75-15-0	Carbon disulfide	20.2		1.0	0.27
56-23-5	Carbon tetrachloride	20.8		1.0	0.18
108-90-7	Chlorobenzene	18.9		1.0	0.18
124-48-1	Dibromochloromethane	15.5		1.0	0.19
75-00-3	Chloroethane	24.9		1.0	0.52
67-66-3	Chloroform	21.7		1.0	0.32
74-87-3	Chloromethane	24.4		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	20.7		1.0	0.15
110-82-7	Cyclohexane	20.1		1.0	0.22
75-27-4	Bromodichloromethane	19.4		1.0	0.26
75-71-8	Dichlorodifluoromethane	23.0		1.0	0.34
100-41-4	Ethylbenzene	18.9		1.0	0.20
106-93-4	1,2-Dibromoethane	17.7		1.0	0.18
98-82-8	Isopropylbenzene	19.5		1.0	0.13
79-20-9	Methyl acetate	38.1		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533363/5

Matrix: Solid | Lab File ID: K86037.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/04/2018 01:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.0		1.0	0.13
108-87-2	Methylcyclohexane	20.9		1.0	0.16
75-09-2	Methylene Chloride	20.2		1.0	0.16
127-18-4	Tetrachloroethene	21.4		1.0	0.14
108-88-3	Toluene	18.7		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	20.7		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	16.9		1.0	0.27
79-01-6	Trichloroethene	21.2		1.0	0.14
75-69-4	Trichlorofluoromethane	25.1		1.0	0.41
75-01-4	Vinyl chloride	24.6		1.0	0.55
1330-20-7	Xylenes, Total	36.9		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	17.4		1.0	0.27
100-42-5	Styrene	18.1		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		78-135
460-00-4	4-Bromofluorobenzene	108		67-126
2037-26-5	Toluene-d8 (Surr)	98		73-121
1868-53-7	Dibromofluoromethane (Surr)	117		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86037.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 04-Jul-2018 01:24:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0074846-005
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:25:01 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: starzecm Date: 04-Jul-2018 10:57:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.614	1.602	0.012	89	50730	20.0	20.2	
2 Dichlorodifluoromethane	85	1.645	1.633	0.013	98	129262	20.0	23.0	
3 Chloromethane	50	1.822	1.815	0.007	99	131553	20.0	24.4	
4 Vinyl chloride	62	1.913	1.907	0.006	98	126406	20.0	24.6	
5 Butadiene	54	1.907	1.907	0.000	75	106407	20.0	25.1	
6 Bromomethane	94	2.218	2.212	0.006	99	91286	20.0	25.8	
7 Chloroethane	64	2.279	2.279	0.000	98	61954	20.0	24.9	
8 Trichlorofluoromethane	101	2.468	2.456	0.012	69	151465	20.0	25.1	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	97	175672	20.0	22.4	
10 Pentane	72	2.504	2.498	0.006	96	25478	40.0	43.3	
12 Ethanol	46	2.693	2.681	0.012	79	17207	800.0	663.7	
11 Ethyl ether	59	2.699	2.693	0.006	96	57868	20.0	20.0	
13 2-Methyl-1,3-butadiene	53	2.724	2.718	0.006	97	71782	20.0	22.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.742	0.006	83	77744	20.0	22.8	
15 Acrolein	56	2.882	2.876	0.006	96	157345	300.0	237.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.901	2.901	0.000	86	90355	20.0	22.5	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	98	77227	20.0	21.6	
18 Acetone	43	3.004	2.998	0.006	86	115403	100.0	99.6	
19 Iodomethane	142	3.077	3.071	0.006	98	159256	20.0	22.8	
22 Isopropyl alcohol	45	3.096	3.090	0.006	30	63922	200.0	164.6	a
20 Carbon disulfide	76	3.120	3.114	0.006	100	284069	20.0	20.2	
21 3-Chloro-1-propene	76	3.242	3.236	0.006	90	51890	20.0	21.4	
23 Methyl acetate	43	3.248	3.242	0.006	95	106214	40.0	38.1	
24 Cyclopentene	67	3.266	3.260	0.006	93	204071	20.0	22.2	
29 Acetonitrile	41	3.309	3.309	0.000	94	138313	200.0	197.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	94	89441	20.0	20.2	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	412686	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.425	0.012	91	107105	200.0	176.9	
28 Methyl tert-butyl ether	73	3.529	3.528	0.000	96	232086	20.0	21.0	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	95	84747	20.0	20.7	
31 Acrylonitrile	53	3.638	3.632	0.006	95	275692	200.0	201.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.711	0.006	93	79380	20.0	19.9	
33 Isopropyl ether	45	3.925	3.919	0.006	96	273068	20.0	20.6	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	71	150954	20.0	21.2	
35 Vinyl acetate	86	3.974	3.967	0.007	100	23654	40.0	33.3	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	92	71298	20.0	20.7	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	239843	20.0	20.1	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	326157	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	91	40092	20.0	19.3	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	94602	20.0	20.7	
41 Ethyl acetate	70	4.504	4.498	0.006	93	13729	40.0	31.2	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	96	41599	100.0	89.5	
44 Methyl acrylate	55	4.565	4.559	0.006	99	58717	20.0	19.5	
43 Propionitrile	54	4.644	4.644	0.000	98	110368	200.0	194.8	
45 Tetrahydrofuran	72	4.729	4.729	0.000	63	20495	40.0	38.0	
46 Chlorobromomethane	128	4.736	4.729	0.007	82	47600	20.0	21.9	
47 Methacrylonitrile	67	4.748	4.742	0.006	93	291523	200.0	202.2	
48 Chloroform	83	4.778	4.778	0.000	99	149969	20.0	21.7	
49 Cyclohexane	84	4.925	4.918	0.007	93	123008	20.0	20.1	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	97	137770	20.0	22.3	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	206131	50.0	58.3	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	114471	20.0	20.8	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	96	111702	20.0	20.9	
56 Isobutyl alcohol	74	5.187	5.187	0.000	96	10063	500.0	393.5	
54 Benzene	78	5.284	5.278	0.006	95	320018	20.0	18.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	201484	50.0	56.2	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	236510	20.0	19.4	
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	96	70655	20.0	20.2	
59 1,2-Dichloroethane	62	5.376	5.370	0.006	96	100852	20.0	21.1	
60 n-Heptane	57	5.424	5.418	0.006	96	80354	20.0	21.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	517772	50.0	50.0	
62 n-Butanol	56	5.857	5.851	0.006	90	60058	500.0	384.2	
63 Trichloroethene	95	5.930	5.930	0.000	97	84505	20.0	21.2	
64 Ethyl acrylate	56	6.059	6.052	0.006	96	53661	20.0	20.9	
65 Methylcyclohexane	83	6.059	6.058	0.000	95	157987	20.0	20.9	
66 1,2-Dichloropropane	63	6.217	6.217	0.000	91	79060	20.0	19.7	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	31746	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	90	87567	40.0	37.8	
69 1,4-Dioxane	88	6.321	6.327	-0.006	29	19042	400.0	401.1	
70 n-Propyl acetate	43	6.333	6.327	0.006	99	99298	20.0	18.4	
71 Dibromomethane	93	6.357	6.351	0.006	95	50764	20.0	20.9	
72 Dichlorobromomethane	83	6.504	6.504	0.000	99	98755	20.0	19.4	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	83	37640	20.0	18.0	
74 2-Nitropropane	41	6.833	6.833	0.000	78	23201	40.0	23.6	
75 Epichlorohydrin	57	6.949	6.942	0.007	100	137843	400.0	344.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	93	112584	20.0	17.4	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	98	378395	100.0	93.1	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	683618	50.0	49.0	
79 Toluene	91	7.333	7.327	0.006	93	325109	20.0	18.7	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	96132	20.0	16.9	
81 Ethyl methacrylate	69	7.692	7.692	0.000	90	81358	20.0	15.5	
82 1,1,2-Trichloroethane	83	7.900	7.893	0.007	96	54368	20.0	18.6	
83 Tetrachloroethene	166	7.948	7.948	0.000	98	88892	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.107	0.006	92	97818	20.0	17.7	
85 2-Hexanone	43	8.156	8.156	0.000	97	231198	100.0	90.8	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	105933	20.0	17.4	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	64011	20.0	15.5	
88 Ethylene Dibromide	107	8.515	8.509	0.006	100	61739	20.0	17.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	86	449848	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	96	206257	20.0	18.9	
92 Ethylbenzene	106	9.186	9.186	0.000	98	115976	20.0	18.9	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	95	78089	20.0	17.4	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	138812	20.0	18.4	
94 n-Butyl acrylate	73	9.765	9.765	0.000	96	47190	20.0	15.1	
95 o-Xylene	106	9.802	9.802	0.000	93	145233	20.0	18.5	
96 Styrene	104	9.832	9.832	0.000	96	224369	20.0	18.1	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	89	126563	20.0	15.8	
98 Bromoform	173	10.070	10.070	0.000	97	36574	20.0	14.0	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	402232	20.0	19.5	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	222746	50.0	53.9	
101 Bromobenzene	156	10.552	10.545	0.007	93	95786	20.0	18.1	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.582	0.006	97	89292	20.0	16.1	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	464121	20.0	17.6	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	24241	20.0	17.0	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	80	22634	20.0	16.6	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	388434	20.0	17.9	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	305228	20.0	17.1	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	333616	20.0	17.3	
109 4-Chlorotoluene	91	10.844	10.838	0.006	97	257425	20.0	17.0	
110 Butyl Methacrylate	87	10.881	10.881	0.000	93	98715	20.0	15.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	94	270063	20.0	17.7	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	98	339730	20.0	17.1	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	444731	20.0	17.8	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	384813	20.0	17.8	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	97	193157	20.0	18.8	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	94	275883	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	192786	20.0	18.6	
118 Benzyl chloride	91	11.655	11.655	0.000	99	175036	20.0	15.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	349573	20.0	17.8	
120 p-Diethylbenzene	119	11.759	11.759	0.000	93	230113	20.0	19.0	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	212927	20.0	18.2	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	195676	20.0	18.7	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	368807	20.0	17.1	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	94	15464	20.0	13.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	174258	20.0	19.4	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	164386	20.0	19.1	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	79546	20.0	18.9	
128 Naphthalene	128	13.319	13.319	0.000	99	356637	20.0	17.4	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	161221	20.0	19.3	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.4	
S 131 Xylenes, Total	100				0		40.0	36.9	
S 132 Total BTEX	1				0		100.0	93.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

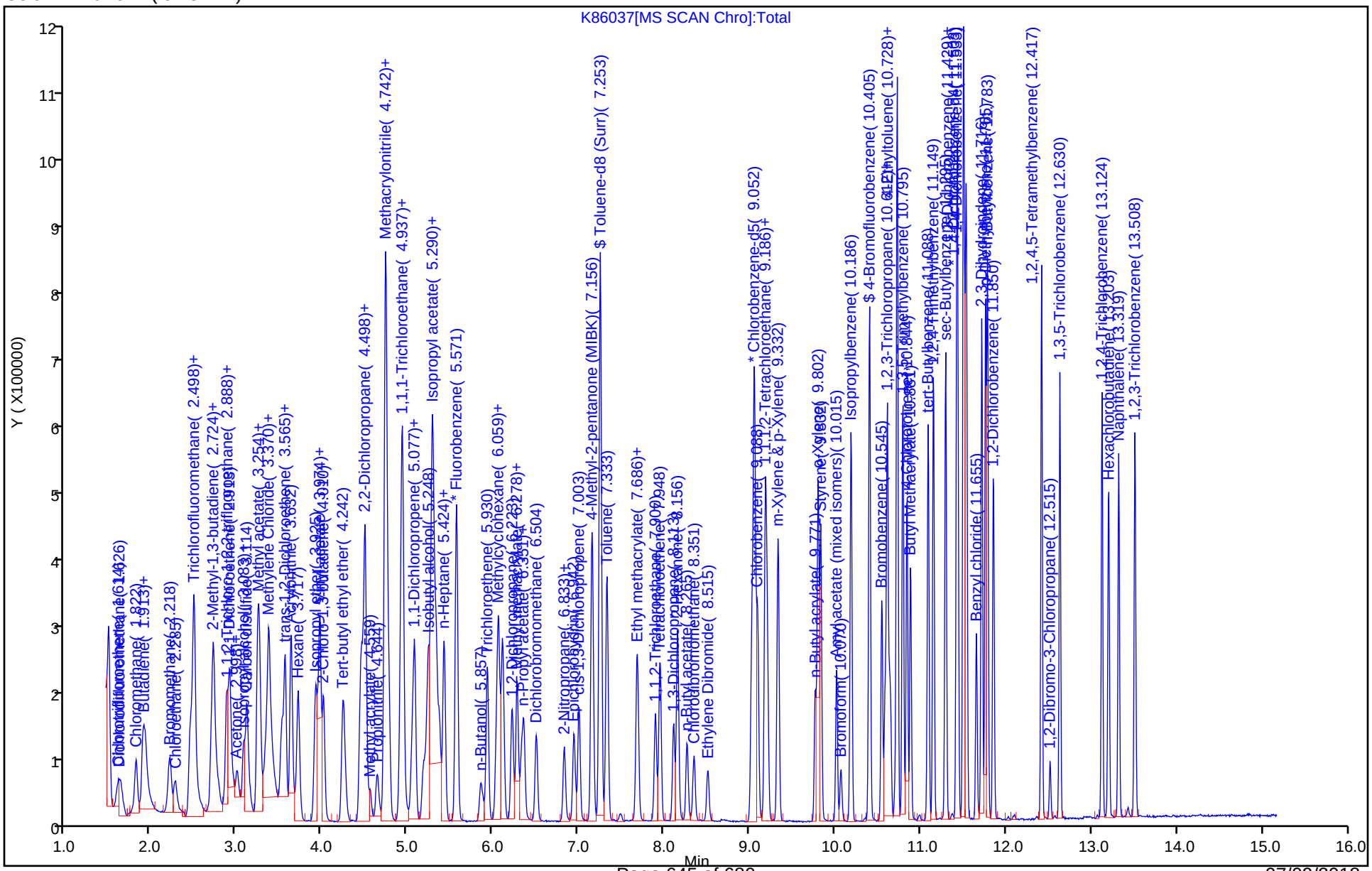
Report Date: 06-Jul-2018 01:25:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86037.D

Injection Date:	04-Jul-2018 01:24:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14MS-SO-55-06222018 MS | Lab Sample ID: 460-158997-4 MS

Matrix: Solid | Lab File ID: K86060.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 7.054(g) | Date Analyzed: 07/04/2018 10:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	12.1		0.85	0.20
79-34-5	1,1,2,2-Tetrachloroethane	10.1		0.85	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	12.9		0.85	0.26
79-00-5	1,1,2-Trichloroethane	11.4		0.85	0.15
75-34-3	1,1-Dichloroethane	11.9		0.85	0.18
75-35-4	1,1-Dichloroethene	11.6		0.85	0.19
120-82-1	1,2,4-Trichlorobenzene	9.10		0.85	0.079
96-12-8	1,2-Dibromo-3-Chloropropane	8.40		0.85	0.39
95-50-1	1,2-Dichlorobenzene	9.93		0.85	0.12
107-06-2	1,2-Dichloroethane	12.6		0.85	0.25
78-87-5	1,2-Dichloropropane	11.4		0.85	0.36
541-73-1	1,3-Dichlorobenzene	9.77		0.85	0.14
106-46-7	1,4-Dichlorobenzene	9.57		0.85	0.085
78-93-3	2-Butanone (MEK)	49.4		4.3	0.95
591-78-6	2-Hexanone	48.2		4.3	0.67
108-10-1	4-Methyl-2-pentanone (MIBK)	49.4		4.3	0.57
67-64-1	Acetone	79.2		4.3	3.2
71-43-2	Benzene	10.3		0.85	0.22
75-25-2	Bromoform	7.97		0.85	0.36
74-83-9	Bromomethane	16.1		0.85	0.40
75-15-0	Carbon disulfide	10.9		0.85	0.23
56-23-5	Carbon tetrachloride	11.1		0.85	0.15
108-90-7	Chlorobenzene	10.2		0.85	0.15
124-48-1	Dibromochloromethane	8.38		0.85	0.17
75-00-3	Chloroethane	15.9		0.85	0.45
67-66-3	Chloroform	12.3		0.85	0.27
74-87-3	Chloromethane	15.2		0.85	0.37
156-59-2	cis-1,2-Dichloroethene	11.9		0.85	0.13
110-82-7	Cyclohexane	11.0		0.85	0.19
75-27-4	Bromodichloromethane	11.1		0.85	0.22
75-71-8	Dichlorodifluoromethane	14.0		0.85	0.29
100-41-4	Ethylbenzene	10.2		0.85	0.17
106-93-4	1,2-Dibromoethane	10.4		0.85	0.15
98-82-8	Isopropylbenzene	9.98		0.85	0.11

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14MS-SO-55-06222018 MS | Lab Sample ID: 460-158997-4 MS

Matrix: Solid | Lab File ID: K86060.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 7.054(g) | Date Analyzed: 07/04/2018 10:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	19.3		4.3	3.7
1634-04-4	Methyl tert-butyl ether	12.2		0.85	0.11
108-87-2	Methylcyclohexane	11.5		0.85	0.14
75-09-2	Methylene Chloride	11.9		0.85	0.14
127-18-4	Tetrachloroethene	11.4		0.85	0.12
108-88-3	Toluene	10.2		0.85	0.53
156-60-5	trans-1,2-Dichloroethene	11.2		0.85	0.21
10061-02-6	trans-1,3-Dichloropropene	9.62		0.85	0.23
79-01-6	Trichloroethene	15.6		0.85	0.12
75-69-4	Trichlorofluoromethane	16.4		0.85	0.35
75-01-4	Vinyl chloride	15.1		0.85	0.47
1330-20-7	Xylenes, Total	20.1		1.7	0.22
10061-01-5	cis-1,3-Dichloropropene	9.60		0.85	0.23
100-42-5	Styrene	9.71		0.85	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		78-135
460-00-4	4-Bromofluorobenzene	108		67-126
2037-26-5	Toluene-d8 (Surr)	96		73-121
1868-53-7	Dibromofluoromethane (Surr)	115		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86060.D
Lims ID: 460-158997-B-4-B MS
Client ID: PDI-14MS-SO-55-06222018
Sample Type: MS
Inject. Date: 04-Jul-2018 10:45:30 ALS Bottle#: 27 Worklist Smp#: 28
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-4-B MS
Misc. Info.: 460-0074846-028
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:36:38 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: starzecm Date: 04-Jul-2018 11:56:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	88	30838	20.0	13.1	
2 Dichlorodifluoromethane	85	1.639	1.633	0.006	99	86261	20.0	16.4	
3 Chloromethane	50	1.815	1.815	0.000	99	89973	20.0	17.8	
4 Vinyl chloride	62	1.913	1.907	0.006	98	85197	20.0	17.7	
5 Butadiene	54	1.907	1.907	0.000	69	74413	20.0	18.7	
6 Bromomethane	94	2.212	2.212	0.000	98	62818	20.0	18.9	
7 Chloroethane	64	2.285	2.279	0.006	98	43493	20.0	18.6	
8 Trichlorofluoromethane	101	2.462	2.456	0.006	69	109071	20.0	19.2	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	124598	20.0	16.9	
10 Pentane	72	2.492	2.498	-0.006	95	16350	40.0	22.7	
12 Ethanol	46	2.736	2.681	0.055	76	14965	800.0	471.6	a
11 Ethyl ether	59	2.693	2.693	0.000	94	37670	20.0	13.8	
13 2-Methyl-1,3-butadiene	53	2.718	2.718	0.000	99	43083	20.0	14.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.742	-0.006	82	44702	20.0	13.9	
15 Acrolein	56	2.876	2.876	0.000	97	108182	300.0	133.1	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.901	0.006	75	56841	20.0	15.1	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	97	45663	20.0	13.6	
18 Acetone	43	3.004	2.998	0.006	86	128674	100.0	92.7	
19 Iodomethane	142	3.071	3.071	0.000	99	93770	20.0	14.3	
22 Isopropyl alcohol	45	3.089	3.090	-0.001	99	51918	200.0	109.2	a
20 Carbon disulfide	76	3.114	3.114	0.000	99	169274	20.0	12.8	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	93	32680	20.0	14.3	
23 Methyl acetate	43	3.248	3.242	0.006	98	77187	40.0	22.6	
24 Cyclopentene	67	3.260	3.260	0.000	94	121616	20.0	14.1	
29 Acetonitrile	41	3.315	3.309	0.006	93	97402	200.0	113.4	a
26 Methylene Chloride	84	3.370	3.370	0.000	94	57666	20.0	13.9	
* 25 TBA-d9 (IS)	65	3.364	3.370	-0.006	0	505140	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.431	3.425	0.006	97	82151	200.0	110.9	
28 Methyl tert-butyl ether	73	3.534	3.528	0.006	97	148466	20.0	14.3	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	96	50322	20.0	13.1	
31 Acrylonitrile	53	3.632	3.632	0.000	94	191703	200.0	149.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.711	3.711	0.000	94	50838	20.0	13.5	
33 Isopropyl ether	45	3.919	3.919	0.000	96	175830	20.0	14.1	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	65	92785	20.0	13.9	
35 Vinyl acetate	86	3.973	3.967	0.006	100	16857	40.0	19.4	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	92	43784	20.0	13.5	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	88	154695	20.0	13.8	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	390530	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	85	24359	20.0	12.5	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	62	59688	20.0	13.9	
41 Ethyl acetate	70	4.498	4.498	0.000	89	9831	40.0	18.2	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	96	32187	100.0	57.9	
44 Methyl acrylate	55	4.559	4.559	0.000	98	38868	20.0	13.8	
43 Propionitrile	54	4.644	4.644	0.000	97	74772	200.0	107.8	
45 Tetrahydrofuran	72	4.723	4.729	-0.006	67	13713	40.0	21.2	
46 Chlorobromomethane	128	4.735	4.729	0.006	80	28987	20.0	14.2	
47 Methacrylonitrile	67	4.742	4.742	0.000	94	198519	200.0	146.7	
48 Chloroform	83	4.778	4.778	0.000	98	93534	20.0	14.4	
49 Cyclohexane	84	4.918	4.918	0.000	93	74067	20.0	12.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	87	82039	20.0	14.1	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	191045	50.0	57.6	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	67085	20.0	13.0	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	95	68669	20.0	13.7	
56 Isobutyl alcohol	74	5.193	5.187	0.006	88	7910	500.0	252.7	a
54 Benzene	78	5.278	5.278	0.000	96	196474	20.0	12.1	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	204029	50.0	60.6	
57 Isopropyl acetate	43	5.315	5.321	-0.006	96	168852	20.0	14.7	a
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	95	45014	20.0	13.7	
59 1,2-Dichloroethane	62	5.376	5.370	0.006	96	66459	20.0	14.8	
60 n-Heptane	57	5.424	5.418	0.006	95	49414	20.0	14.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	486176	50.0	50.0	
62 n-Butanol	56	5.863	5.851	0.012	92	43307	500.0	226.3	
63 Trichloroethene	95	5.930	5.930	0.000	98	68441	20.0	18.3	
64 Ethyl acrylate	56	6.058	6.052	0.006	92	33633	20.0	14.0	
65 Methylcyclohexane	83	6.058	6.058	0.000	93	95468	20.0	13.5	
66 1,2-Dichloropropane	63	6.223	6.217	0.006	90	50450	20.0	13.4	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	38080	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	94	58988	40.0	27.1	
69 1,4-Dioxane	88	6.339	6.327	0.012	31	13769	400.0	241.8	
70 n-Propyl acetate	43	6.333	6.327	0.006	98	71437	20.0	14.1	
71 Dibromomethane	93	6.357	6.351	0.006	97	32686	20.0	14.3	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	62472	20.0	13.0	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	77	23465	20.0	11.9	
74 2-Nitropropane	41	6.833	6.833	0.000	79	15662	40.0	17.0	
75 Epichlorohydrin	57	6.948	6.942	0.006	99	92875	400.0	193.8	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	94	69889	20.0	11.2	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	98	281867	100.0	57.9	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	641357	50.0	48.0	
79 Toluene	91	7.333	7.327	0.005	93	198561	20.0	11.9	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	61247	20.0	11.3	
81 Ethyl methacrylate	69	7.692	7.692	0.000	90	54378	20.0	10.8	
82 1,1,2-Trichloroethane	83	7.899	7.893	0.006	97	37204	20.0	13.3	
83 Tetrachloroethene	166	7.954	7.948	0.006	96	53412	20.0	13.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.107	0.006	94	63930	20.0	12.1	
85 2-Hexanone	43	8.156	8.156	0.000	98	172276	100.0	56.5	
86 n-Butyl acetate	43	8.271	8.265	0.006	98	77420	20.0	13.3	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	38872	20.0	9.81	
88 Ethylene Dibromide	107	8.515	8.509	0.006	99	40735	20.0	12.2	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	85	431048	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	96	125188	20.0	12.0	
92 Ethylbenzene	106	9.186	9.186	0.000	98	70154	20.0	11.9	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	93	47906	20.0	11.2	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	85258	20.0	11.8	
94 n-Butyl acrylate	73	9.771	9.765	0.006	96	31725	20.0	10.6	
95 o-Xylene	106	9.802	9.802	0.000	93	87939	20.0	11.7	
96 Styrene	104	9.832	9.832	0.000	96	135291	20.0	11.4	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	88	88469	20.0	11.5	
98 Bromoform	173	10.070	10.070	0.000	94	23432	20.0	9.33	
99 Isopropylbenzene	105	10.186	10.186	0.000	96	231479	20.0	11.7	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	213761	50.0	54.0	
101 Bromobenzene	156	10.551	10.545	0.006	94	56327	20.0	11.1	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.582	0.006	97	62628	20.0	11.8	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	272835	20.0	10.8	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	98	16992	20.0	12.4	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	84	15676	20.0	12.0	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	225170	20.0	10.9	
106 2-Chlorotoluene	91	10.728	10.728	0.000	91	182021	20.0	10.7	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	194150	20.0	10.5	
109 4-Chlorotoluene	91	10.844	10.838	0.006	97	150689	20.0	10.4	
110 Butyl Methacrylate	87	10.887	10.881	0.006	93	61403	20.0	9.80	
111 tert-Butylbenzene	119	11.094	11.088	0.006	95	156682	20.0	10.7	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	98	198760	20.0	10.5	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	259800	20.0	10.9	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	217991	20.0	10.5	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	97	112817	20.0	11.4	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	94	263926	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	111214	20.0	11.2	
118 Benzyl chloride	91	11.655	11.655	0.000	98	93650	20.0	8.58	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	213012	20.0	11.3	
120 p-Diethylbenzene	119	11.765	11.759	0.006	93	128586	20.0	11.1	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	118571	20.0	10.6	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	116428	20.0	11.6	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	208992	20.0	10.1	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	92	10893	20.0	9.84	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	92351	20.0	10.7	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	87943	20.0	10.7	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	45287	20.0	11.3	
128 Naphthalene	128	13.319	13.319	0.000	99	223148	20.0	11.4	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	93192	20.0	11.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	27.0	
S 131 Xylenes, Total	100				0		40.0	23.5	
S 132 Total BTEX	1				0		100.0	59.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

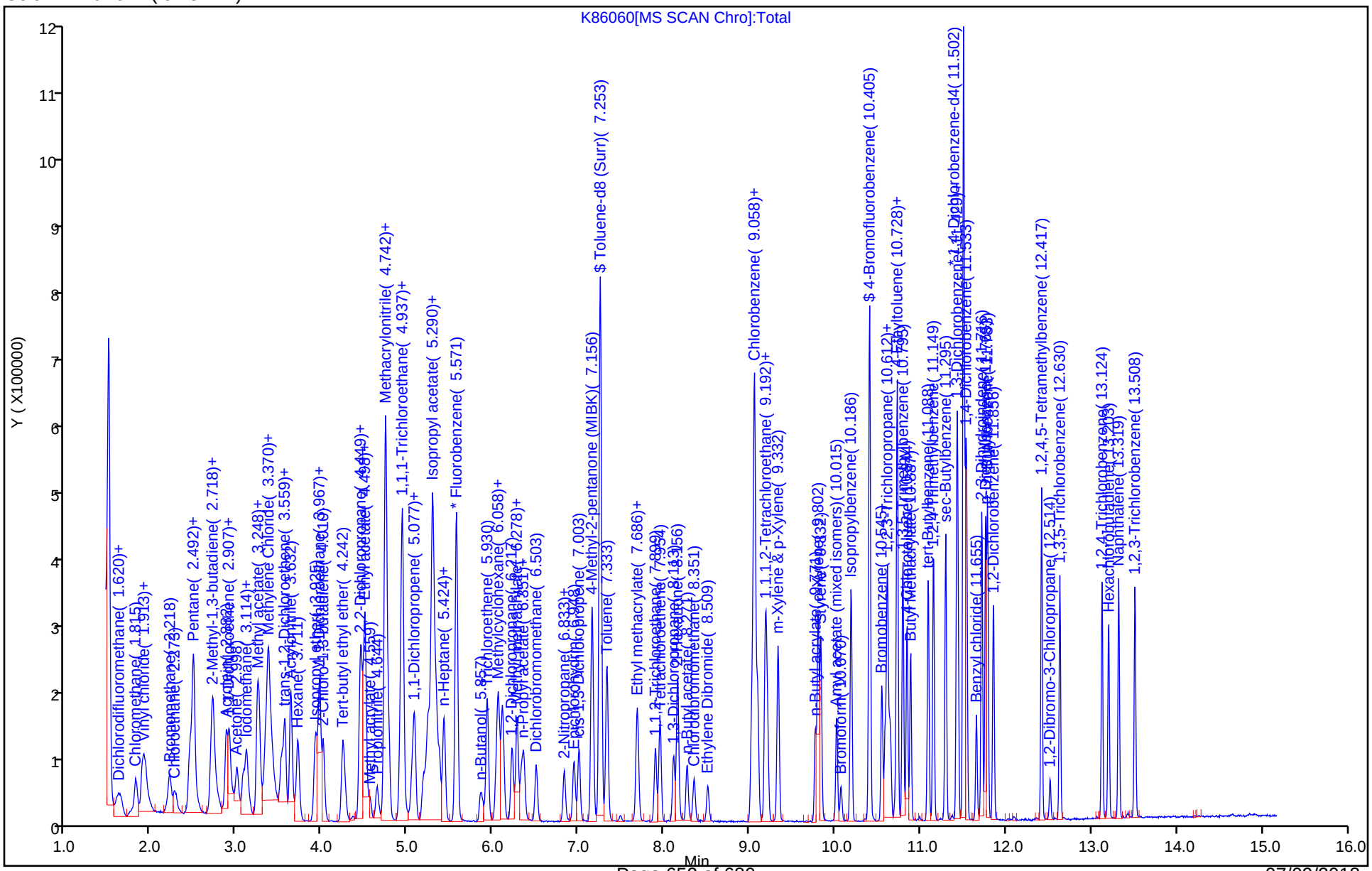
Report Date: 06-Jul-2018 01:36:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86060.D

Injection Date:	04-Jul-2018 10:45:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-158997-B-4-B MS			Worklist Smp#:	28
Client ID:	PDI-14MS-SO-55-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14MSD-SO-55-06222018 MSD | Lab Sample ID: 460-158997-4 MSD

Matrix: Solid | Lab File ID: K86061.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 7.344(g) | Date Analyzed: 07/04/2018 11:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	13.2		0.82	0.19
79-34-5	1,1,2,2-Tetrachloroethane	10.8		0.82	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	14.0		0.82	0.25
79-00-5	1,1,2-Trichloroethane	11.9		0.82	0.15
75-34-3	1,1-Dichloroethane	13.1		0.82	0.17
75-35-4	1,1-Dichloroethene	12.4		0.82	0.18
120-82-1	1,2,4-Trichlorobenzene	10.0		0.82	0.075
96-12-8	1,2-Dibromo-3-Chloropropane	8.90		0.82	0.38
95-50-1	1,2-Dichlorobenzene	11.1		0.82	0.12
107-06-2	1,2-Dichloroethane	13.9		0.82	0.24
78-87-5	1,2-Dichloropropane	12.5		0.82	0.35
541-73-1	1,3-Dichlorobenzene	10.7		0.82	0.13
106-46-7	1,4-Dichlorobenzene	10.6		0.82	0.082
78-93-3	2-Butanone (MEK)	54.9		4.1	0.91
591-78-6	2-Hexanone	53.8		4.1	0.64
108-10-1	4-Methyl-2-pentanone (MIBK)	54.5		4.1	0.54
67-64-1	Acetone	78.3		4.1	3.1
71-43-2	Benzene	11.5		0.82	0.21
75-25-2	Bromoform	8.66		0.82	0.35
74-83-9	Bromomethane	17.3		0.82	0.39
75-15-0	Carbon disulfide	12.2		0.82	0.22
56-23-5	Carbon tetrachloride	12.3		0.82	0.15
108-90-7	Chlorobenzene	11.2		0.82	0.15
124-48-1	Dibromochloromethane	9.27		0.82	0.16
75-00-3	Chloroethane	17.2		0.82	0.43
67-66-3	Chloroform	13.4		0.82	0.26
74-87-3	Chloromethane	15.6		0.82	0.36
156-59-2	cis-1,2-Dichloroethene	12.7		0.82	0.12
110-82-7	Cyclohexane	11.4		0.82	0.18
75-27-4	Bromodichloromethane	11.9		0.82	0.21
75-71-8	Dichlorodifluoromethane	14.7		0.82	0.28
100-41-4	Ethylbenzene	10.5		0.82	0.16
106-93-4	1,2-Dibromoethane	11.5		0.82	0.15
98-82-8	Isopropylbenzene	10.9		0.82	0.10

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-158997-1

SDG No.:

Client Sample ID: PDI-14MSD-SO-55-06222018 MSD | Lab Sample ID: 460-158997-4 MSD

Matrix: Solid | Lab File ID: K86061.D

Analysis Method: 8260C | Date Collected: 06/22/2018 10:55

Sample wt/vol: 7.344(g) | Date Analyzed: 07/04/2018 11:10

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 17.0 | Level: (low/med) Low

Analysis Batch No.: 533363 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	21.9		4.1	3.5
1634-04-4	Methyl tert-butyl ether	13.4		0.82	0.10
108-87-2	Methylcyclohexane	12.4		0.82	0.13
75-09-2	Methylene Chloride	12.9		0.82	0.13
127-18-4	Tetrachloroethene	12.4		0.82	0.12
108-88-3	Toluene	11.2		0.82	0.51
156-60-5	trans-1,2-Dichloroethene	12.0		0.82	0.20
10061-02-6	trans-1,3-Dichloropropene	10.5		0.82	0.22
79-01-6	Trichloroethene	16.1		0.82	0.12
75-69-4	Trichlorofluoromethane	16.6		0.82	0.33
75-01-4	Vinyl chloride	15.7		0.82	0.45
1330-20-7	Xylenes, Total	21.2		1.6	0.21
10061-01-5	cis-1,3-Dichloropropene	10.6		0.82	0.22
100-42-5	Styrene	10.4		0.82	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	122		78-135
460-00-4	4-Bromofluorobenzene	107		67-126
2037-26-5	Toluene-d8 (Surr)	98		73-121
1868-53-7	Dibromofluoromethane (Surr)	118		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86061.D
Lims ID: 460-158997-B-4-C MSD
Client ID: PDI-14MSD-SO-55-06222018
Sample Type: MSD
Inject. Date: 04-Jul-2018 11:10:30 ALS Bottle#: 28 Worklist Smp#: 29
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-158997-B-4-C MSD
Misc. Info.: 460-0074846-029
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 01:37:32 Calib Date: 07-Jun-2018 03:02:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180606-73325.b\K84646.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: starzecm Date: 04-Jul-2018 11:56:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	88	34258	20.0	14.5	
2 Dichlorodifluoromethane	85	1.639	1.633	0.007	99	94677	20.0	17.9	
3 Chloromethane	50	1.822	1.815	0.007	99	96530	20.0	19.1	
4 Vinyl chloride	62	1.919	1.907	0.012	97	92372	20.0	19.1	
5 Butadiene	54	1.937	1.907	0.030	96	80390	20.0	20.2	M
6 Bromomethane	94	2.218	2.212	0.006	97	70316	20.0	21.2	
7 Chloroethane	64	2.285	2.279	0.006	99	49130	20.0	21.0	
8 Trichlorofluoromethane	101	2.462	2.456	0.006	75	115102	20.0	20.3	
9 Dichlorofluoromethane	67	2.468	2.462	0.006	97	132022	20.0	17.9	
10 Pentane	72	2.498	2.498	0.000	96	17032	40.0	24.4	
12 Ethanol	46	2.699	2.681	0.018	83	15336	800.0	498.4	
11 Ethyl ether	59	2.699	2.693	0.006	92	43083	20.0	15.8	
13 2-Methyl-1,3-butadiene	53	2.724	2.718	0.006	96	50524	20.0	17.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	89	52244	20.0	16.3	
15 Acrolein	56	2.882	2.876	0.006	97	116285	300.0	147.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.901	0.018	47	64429	20.0	17.1	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	98	50690	20.0	15.1	
18 Acetone	43	3.010	2.998	0.012	86	128664	100.0	95.6	
19 Iodomethane	142	3.077	3.071	0.006	99	106916	20.0	16.3	
22 Isopropyl alcohol	45	3.096	3.090	0.006	94	59114	200.0	128.2	a
20 Carbon disulfide	76	3.120	3.114	0.006	100	195941	20.0	14.8	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	92	34601	20.0	15.2	
23 Methyl acetate	43	3.248	3.242	0.006	99	88193	40.0	26.7	
24 Cyclopentene	67	3.266	3.260	0.006	94	140726	20.0	16.3	
29 Acetonitrile	41	3.321	3.309	0.012	99	111691	200.0	134.1	a
26 Methylene Chloride	84	3.376	3.370	0.006	97	65169	20.0	15.7	
* 25 TBA-d9 (IS)	65	3.364	3.370	-0.006	0	489768	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.431	3.425	0.006	91	94441	200.0	131.5	
28 Methyl tert-butyl ether	73	3.529	3.528	0.000	97	169339	20.0	16.3	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	96	56433	20.0	14.7	
31 Acrylonitrile	53	3.632	3.632	0.000	95	219361	200.0	170.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.711	0.006	94	56830	20.0	15.1	
33 Isopropyl ether	45	3.925	3.919	0.006	97	204092	20.0	16.4	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	69	106739	20.0	16.0	
35 Vinyl acetate	86	3.980	3.967	0.013	100	19263	40.0	22.8	
36 2-Chloro-1,3-butadiene	88	4.016	4.010	0.006	93	48414	20.0	14.9	
37 Tert-butyl ethyl ether	59	4.248	4.242	0.006	88	179857	20.0	16.1	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	379031	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	96	25949	20.0	13.3	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	92	66529	20.0	15.5	
41 Ethyl acetate	70	4.504	4.498	0.006	92	11763	40.0	22.7	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	96	36153	100.0	67.0	
44 Methyl acrylate	55	4.559	4.559	0.000	98	48995	20.0	17.3	
43 Propionitrile	54	4.644	4.644	0.000	98	86789	200.0	129.1	
45 Tetrahydrofuran	72	4.729	4.729	0.000	68	16178	40.0	25.8	
46 Chlorobromomethane	128	4.729	4.729	0.000	93	32824	20.0	16.0	
47 Methacrylonitrile	67	4.742	4.742	0.000	94	227824	200.0	168.2	
48 Chloroform	83	4.778	4.778	0.000	98	105820	20.0	16.3	
49 Cyclohexane	84	4.918	4.918	0.000	94	80197	20.0	13.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	89	93612	20.0	16.1	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	96	196392	50.0	59.1	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	77605	20.0	15.0	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	96	78791	20.0	15.7	
56 Isobutyl alcohol	74	5.181	5.187	-0.006	91	7790	500.0	256.7	
54 Benzene	78	5.284	5.278	0.006	95	225136	20.0	14.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	206318	50.0	61.2	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	195245	20.0	17.0	a
58 Tert-amyl methyl ether	87	5.339	5.327	0.012	91	52641	20.0	16.0	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	96	76464	20.0	17.0	
60 n-Heptane	57	5.424	5.418	0.006	96	50523	20.0	14.3	
* 61 Fluorobenzene	96	5.571	5.571	0.000	98	486458	50.0	50.0	
62 n-Butanol	56	5.851	5.851	0.000	94	49817	500.0	268.5	
63 Trichloroethene	95	5.930	5.930	0.000	97	73304	20.0	19.6	
64 Ethyl acrylate	56	6.058	6.052	0.006	94	39040	20.0	16.2	
65 Methylcyclohexane	83	6.065	6.058	0.007	94	106964	20.0	15.1	
66 1,2-Dichloropropane	63	6.223	6.217	0.006	91	57660	20.0	15.3	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	36471	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	91	66930	40.0	30.8	
69 1,4-Dioxane	88	6.327	6.327	0.000	27	15065	400.0	276.2	
70 n-Propyl acetate	43	6.333	6.327	0.006	98	85563	20.0	16.9	
71 Dibromomethane	93	6.357	6.351	0.006	96	37294	20.0	16.3	
72 Dichlorobromomethane	83	6.504	6.504	0.000	99	69720	20.0	14.5	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	78	28097	20.0	14.3	
74 2-Nitropropane	41	6.833	6.833	0.000	79	18989	40.0	20.6	
75 Epichlorohydrin	57	6.942	6.942	0.000	99	105858	400.0	227.6	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	94	80100	20.0	13.0	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	98	314389	100.0	66.5	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	650528	50.0	49.0	
79 Toluene	91	7.333	7.327	0.006	93	224719	20.0	13.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	69407	20.0	12.9	
81 Ethyl methacrylate	69	7.692	7.692	0.000	91	61097	20.0	12.3	
82 1,1,2-Trichloroethane	83	7.900	7.893	0.007	95	40242	20.0	14.5	
83 Tetrachloroethene	166	7.954	7.948	0.006	97	59748	20.0	15.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.107	0.006	95	72939	20.0	13.8	
85 2-Hexanone	43	8.156	8.156	0.000	99	194250	100.0	65.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	97	87526	20.0	15.1	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	44466	20.0	11.3	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	46485	20.0	14.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	85	427951	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	96	141086	20.0	13.6	
92 Ethylbenzene	106	9.186	9.186	0.000	99	75165	20.0	12.8	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	53501	20.0	12.6	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	92228	20.0	12.8	
94 n-Butyl acrylate	73	9.771	9.765	0.006	95	35986	20.0	12.1	
95 o-Xylene	106	9.802	9.802	0.000	93	97034	20.0	13.0	
96 Styrene	104	9.832	9.832	0.000	95	149902	20.0	12.7	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	89	100234	20.0	13.2	
98 Bromoform	173	10.070	10.070	0.000	95	26336	20.0	10.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	96	260635	20.0	13.3	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	94	210679	50.0	53.6	
101 Bromobenzene	156	10.545	10.545	0.000	93	64393	20.0	12.9	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.582	0.006	98	69395	20.0	13.2	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	303703	20.0	12.2	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	18850	20.0	13.9	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	75	16788	20.0	13.0	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	253306	20.0	12.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	92	204717	20.0	12.1	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	93	215444	20.0	11.8	
109 4-Chlorotoluene	91	10.844	10.838	0.006	97	172206	20.0	12.0	
110 Butyl Methacrylate	87	10.887	10.881	0.006	94	70533	20.0	11.4	
111 tert-Butylbenzene	119	11.088	11.088	0.000	94	179498	20.0	12.4	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	222561	20.0	11.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	294449	20.0	12.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	247155	20.0	12.1	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	96	127107	20.0	13.0	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	95	261154	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	127222	20.0	13.0	
118 Benzyl chloride	91	11.655	11.655	0.000	98	103769	20.0	9.61	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	235588	20.0	12.7	
120 p-Diethylbenzene	119	11.765	11.759	0.006	93	145257	20.0	12.7	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	135089	20.0	12.2	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	133572	20.0	13.5	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	233011	20.0	11.4	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	92	11890	20.0	10.9	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	103718	20.0	12.2	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	99685	20.0	12.2	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	94	50639	20.0	12.7	
128 Naphthalene	128	13.319	13.319	0.000	99	252054	20.0	13.0	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	102596	20.0	12.9	
S 130 1,2-Dichloroethene, Total	100				0		40.0	30.2	
S 131 Xylenes, Total	100				0		40.0	25.9	
S 132 Total BTEX	1				0		100.0	66.3	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

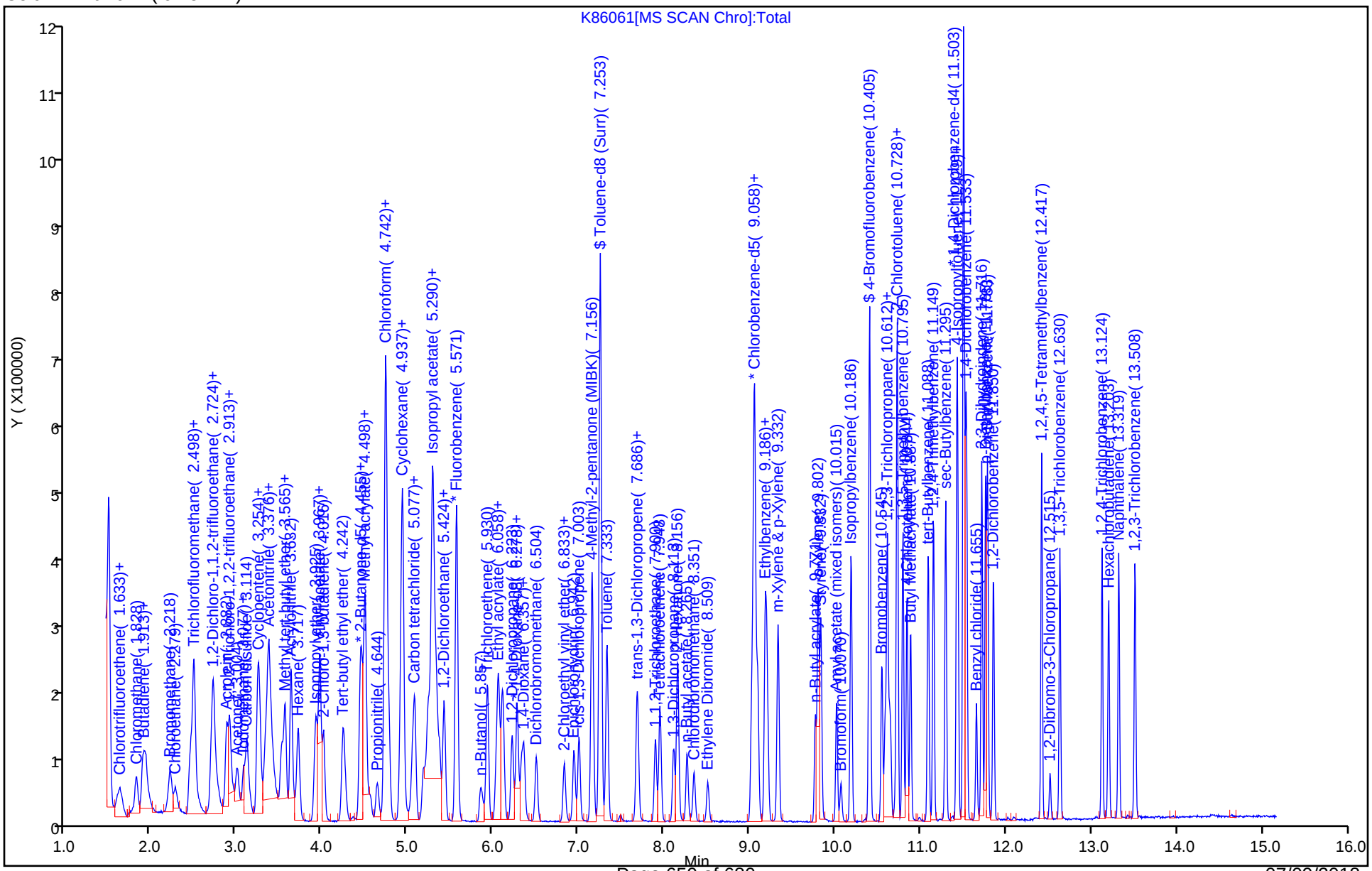
Report Date: 06-Jul-2018 01:37:37 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180703-74846.b\K86061.D

Injection Date:	04-Jul-2018 11:10:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-158997-B-4-C MSD			Worklist Smp#:	29
Client ID:	PDI-14MSD-SO-55-06222018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS11 Start Date: 06/05/2018 08:14

Analysis Batch Number: 525211 End Date: 06/05/2018 18:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-525211/1		06/05/2018 08:14	1	N672370.D	Rtx-624 0.25(mm)
STD7 460-525211/3 IC		06/05/2018 09:01	1	N672372.D	Rtx-624 0.25(mm)
STD1 460-525211/4 IC		06/05/2018 09:24	1	N672373.D	Rtx-624 0.25(mm)
STD5 460-525211/5 IC		06/05/2018 09:47	1	N672374.D	Rtx-624 0.25(mm)
STD20 460-525211/6 ICIS		06/05/2018 10:10	1	N672375.D	Rtx-624 0.25(mm)
STD50 460-525211/7 IC		06/05/2018 10:33	1	N672376.D	Rtx-624 0.25(mm)
STD200 460-525211/8 IC		06/05/2018 10:55	1	N672377.D	Rtx-624 0.25(mm)
STD500 460-525211/9 IC		06/05/2018 11:19	1	N672378.D	Rtx-624 0.25(mm)
ICV 460-525211/15		06/05/2018 13:41	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 14:17	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 14:40	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 15:36	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 15:59	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 16:22	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 16:45	1		Rtx-624 0.25(mm)
ZZZZZ		06/05/2018 18:32	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS11 Start Date: 07/03/2018 07:18

Analysis Batch Number: 533092 End Date: 07/03/2018 17:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533092/1		07/03/2018 07:18	1	N68525.D	Rtx-624 0.25(mm)
CCVIS 460-533092/3		07/03/2018 08:26	1	N68527.D	Rtx-624 0.25(mm)
LCS 460-533092/4		07/03/2018 08:48	1	N68528.D	Rtx-624 0.25(mm)
LCSD 460-533092/5		07/03/2018 09:10	1	N68529.D	Rtx-624 0.25(mm)
MB 460-533092/8		07/03/2018 10:17	1	N68532.D	Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 10:39	1		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 11:01	1		Rtx-624 0.25(mm)
460-158997-1		07/03/2018 11:23	1	N68535.D	Rtx-624 0.25(mm)
460-158997-2		07/03/2018 11:46	1	N68536.D	Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 13:14	100		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 13:59	1		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 14:21	1		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 14:44	10		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 16:13	20		Rtx-624 0.25(mm)
ZZZZZ		07/03/2018 17:20	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 06/05/2018 01:01

Analysis Batch Number: 525048 End Date: 06/05/2018 07:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-525048/1		06/05/2018 01:01	1	F65703.D	Rtx-624 0.25(mm)
STD8 460-525048/3 IC		06/05/2018 02:24	1	F65705.D	Rtx-624 0.25(mm)
STD1 460-525048/5 IC		06/05/2018 03:11	1	F65707.D	Rtx-624 0.25(mm)
STD5 460-525048/6 IC		06/05/2018 03:35	1	F65708.D	Rtx-624 0.25(mm)
STD20 460-525048/7 ICIS		06/05/2018 03:59	1	F65709.D	Rtx-624 0.25(mm)
STD50 460-525048/8 IC		06/05/2018 04:22	1	F65710.D	Rtx-624 0.25(mm)
STD200 460-525048/9 IC		06/05/2018 04:46	1	F65711.D	Rtx-624 0.25(mm)
STD500 460-525048/10 IC		06/05/2018 05:09	1	F65712.D	Rtx-624 0.25(mm)
ICV 460-525048/15		06/05/2018 07:06	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/04/2018 06:45

Analysis Batch Number: 533394 End Date: 07/04/2018 17:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533394/1		07/04/2018 06:45	1	F67236.D	Rtx-624 0.25(mm)
CCVIS 460-533394/3		07/04/2018 07:37	1	F67238.D	Rtx-624 0.25(mm)
LCS 460-533394/4		07/04/2018 08:25	1	F67239.D	Rtx-624 0.25(mm)
MB 460-533394/8		07/04/2018 10:02	1	F67243.D	Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 10:25	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 10:49	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 11:13	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 11:37	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 12:00	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 13:10	5		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 13:58	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 14:21	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 15:09	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 15:32	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 16:20	5		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 17:30	1		Rtx-624 0.25(mm)
460-158997-3		07/04/2018 17:54	1	F67263.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 06/06/2018 23:47

Analysis Batch Number: 525743 End Date: 06/07/2018 04:39

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-525743/1		06/06/2018 23:47	1	K84639.D	Rtx-624 0.25(mm)
STD1 460-525743/3 IC		06/07/2018 01:00	1	K84641.D	Rtx-624 0.25(mm)
STD5 460-525743/4 IC		06/07/2018 01:25	1	K84642.D	Rtx-624 0.25(mm)
STD20 460-525743/5 ICIS		06/07/2018 01:49	1	K84643.D	Rtx-624 0.25(mm)
STD50 460-525743/6 IC		06/07/2018 02:14	1	K84644.D	Rtx-624 0.25(mm)
STD200 460-525743/7 IC		06/07/2018 02:38	1	K84645.D	Rtx-624 0.25(mm)
STD500 460-525743/8 IC		06/07/2018 03:02	1	K84646.D	Rtx-624 0.25(mm)
ICV 460-525743/12		06/07/2018 04:39	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/03/2018 23:40

Analysis Batch Number: 533363 End Date: 07/04/2018 11:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533363/1		07/03/2018 23:40	1	K86033.D	Rtx-624 0.25(mm)
CCVIS 460-533363/3		07/04/2018 00:34	1	K86035.D	Rtx-624 0.25(mm)
LCS 460-533363/4		07/04/2018 00:59	1	K86036.D	Rtx-624 0.25(mm)
LCSD 460-533363/5		07/04/2018 01:24	1	K86037.D	Rtx-624 0.25(mm)
MB 460-533363/8		07/04/2018 02:37	1	K86040.D	Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 03:02	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 03:26	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 03:51	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 04:16	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 04:40	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 05:04	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 05:29	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 06:41	1		Rtx-624 0.25(mm)
460-158997-4		07/04/2018 07:06	1	K86051.D	Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 09:56	1		Rtx-624 0.25(mm)
ZZZZZ		07/04/2018 10:20	1		Rtx-624 0.25(mm)
460-158997-4 MS		07/04/2018 10:45	1	K86060.D	Rtx-624 0.25(mm)
460-158997-4 MSD		07/04/2018 11:10	1	K86061.D	Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Batch Number: 530346 Batch Start Date: 06/23/18 06:42 Batch Analyst: Morrison, Derek

Batch Method: 5035 Batch End Date: 06/23/18 06:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-158997-B-4	PDI-14-SO-55-06222018	5035, 8260C	T	+030.737 g	37.71 g	6.973 g	5 mL		
460-158997-B-4 MS	PDI-14MS-SO-55-06222018	5035, 8260C	T	+030.796 g	37.85 g	7.054 g	5 mL		
460-158997-B-4 MSD	PDI-14MSD-SO-55-06222018	5035, 8260C	T	+030.776 g	38.12 g	7.344 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Batch Number: 533092 Batch Start Date: 07/03/18 07:18 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00120	8260MIX1COMB 00082	8260SURR250 00176	ACROLEIN W 00078
BFB 460-533092/1		8260C		5 mL	0				
CCVIS 460-533092/3		8260C		5 mL	0	1 uL	20 uL	1 uL	4 uL
LCS 460-533092/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCSD 460-533092/5		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-533092/8		8260C		5 mL	5 mL	1 uL		1 uL	
460-158997-B-1	PDI-TB-06222018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-158997-B-2	PDI-FB-06222018	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00267				
BFB 460-533092/1		8260C		1 uL					
CCVIS 460-533092/3		8260C			20 uL				
LCS 460-533092/4		8260C			20 uL				
LCSD 460-533092/5		8260C			20 uL				
MB 460-533092/8		8260C							
460-158997-B-1	PDI-TB-06222018	8260C	T						
460-158997-B-2	PDI-FB-06222018	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Batch Number: 533394 Batch Start Date: 07/04/18 06:45 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00267
BFB 460-533394/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-533394/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-533394/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-533394/8		8260C		5 mL	5 mL				
460-158997-B-3	PDI-14-WG-75-062 22018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00011					
BFB 460-533394/1		8260C							
CCVIS 460-533394/3		8260C		5 uL					
LCS 460-533394/4		8260C		5 uL					
MB 460-533394/8		8260C		5 uL					
460-158997-B-3	PDI-14-WG-75-062 22018	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-158997-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-14-SO-55-06222018	460-158997-4

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-158997-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-158997-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/26/2018 08:58 End Date: 06/26/2018 08:58

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
460-158997-4	1	T	08:58	X	X																			
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
ZZZZZZ			08:58																					
460-158997-4 MS	1	T	08:58	X	X																			
460-158997-4 MSD	1	T	08:58	X	X																			

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-158997-1

SDG No.:

Batch Number: 531036 Batch Start Date: 06/26/18 08:58 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-158997-D-4	PDI-14-SO-55-06222018	Moisture	T	62	1.03 g	9.64 g	8.18 g		
460-158997-D-4 MS	PDI-14MS-SO-55-06222018	Moisture	T	62	1.03 g	9.64 g	8.18 g		
460-158997-D-4 MSD	PDI-14MSD-SO-55-06222018	Moisture	T	62	1.03 g	9.64 g	8.18 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	06/26/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	09:24
Date samples were removed from oven	06/27/2018
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	09:05
Oven ID	3
Thermometer ID	146052
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	104 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

NYSC
460501

Frank Robinson

07/09/2018

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 158997
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

SHORT HOLD

460-158997 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-TB-06222018	6/22/18	—	—	Water			✓						Trip Blank 1
POI-FB-06222018	6/22/18	0900	—	Water			✓						Field Blank 2
POI-14-WG-75-06222014	6/22/18	1115	G	Water			✓						3
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Frank Robinson	Date/Time: 6/22/18 1820	Company CDM	Received by:		Date/Time: 6/22/18 1920	Company	
Relinquished by:	Date/Time: 6/24/18 1500	Company FedEx	Received by:		Date/Time: 06/22/18 1900	Company TA edi	
Relinquished by:	Date/Time:	Company	Received by:		Date/Time:	Company	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

1.5 1.5 ER# 11 NOC

Ver: 08/04/2016

Page 676 of 680

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC
460571

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

07/09/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 158997
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	F	N	N	N		
POI-14-SO-55-06222018	6/22/18	1055	G	Solid			✓	✓						4
POI-14MS-SO-55-06222018	6/22/18	1058	G	Solid			✓	✓						MS 4
POI-14MSD-SO-55-06222018	6/22/18	1058	G	Solid			✓	✓						MSD 4
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Frank Robinson	6/22/18 / 1420	CDM		6/22/18 / 1420	YA
2		6/22/18 / 1530	T. A		06/22/18 1900	TA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Page 677 of 680

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 158997

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.5 °C	1.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/22/16

07/09/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-158997-1

Login Number: 158997
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-158997-1

Login Number: 158997
List Number: 2
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-158997-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/9/2018 11:18:00 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 11
QC Sample Results 12
QC Association Summary 25
Lab Chronicle 26
Certification Summary 27
Method Summary 28
Sample Summary 29
Chain of Custody 30
Receipt Checklists 33

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-158997-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-158997-1

Receipt
The samples were received on 6/22/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-533363 was outside the method criteria for the following analyte(s): Vinyl chloride, Trichlorofluoromethane and 1,1,2-Trichloro-1,2,2-trifluoroethane(biased high) and Bromoform(biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 460-533092 recovered outside control limits for the following analytes: 1,2-Dibromoethane, Chloromethane and MTBE. These analytes were not detected in the associated samples; therefore, the data have been reported.

Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-533092 was outside the method criteria for the following analytes: Chloromethane(biased high) and 1,2-Dibromoethane(biased low). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analytes are considered estimated.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Client Sample ID: PDI-TB-06222018 — Lab Sample ID: 460-158997-1

No Detections.

Client Sample ID: PDI-FB-06222018 — Lab Sample ID: 460-158997-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	16		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	16		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.2		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-14-WG-75-06222018 — Lab Sample ID: 460-158997-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.83	J	1.0	0.54	ug/L	1		8260C	Total/NA
Carbon disulfide	0.52	J	1.0	0.16	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.42	J	1.0	0.28	ug/L	1		8260C	Total/NA
Chloromethane	0.24	J	1.0	0.14	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.31	J	1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.51	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	3.6		1.0	0.31	ug/L	1		8260C	Total/NA
Xylenes, Total	1.8	J	2.0	0.65	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-14-SO-55-06222018 — Lab Sample ID: 460-158997-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	3.5	J F1	4.3	0.96	ug/Kg	1	☼	8260C	Total/NA
Acetone	17	F1	4.3	3.3	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.30	J F1	0.86	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.32	J F1 B	0.86	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.53	J F1	0.86	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	8.5	F1	0.86	0.12	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Client Sample ID: PDI-TB-06222018
Date Collected: 06/22/18 00:00
Date Received: 06/22/18 19:00

Lab Sample ID: 460-158997-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 11:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 11:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 11:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 11:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 11:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 11:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 11:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 11:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 11:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 11:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/03/18 11:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 11:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 11:23	1
Acetone	ND		5.0	5.0	ug/L			07/03/18 11:23	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 11:23	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 11:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 11:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 11:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 11:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 11:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 11:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 11:23	1
Chloromethane	ND	*	1.0	0.14	ug/L			07/03/18 11:23	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 11:23	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 11:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 11:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 11:23	1
1,2-Dibromoethane	ND	*	1.0	0.50	ug/L			07/03/18 11:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 11:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 11:23	1
Methyl tert-butyl ether	ND	*	1.0	0.47	ug/L			07/03/18 11:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 11:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/03/18 11:23	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 11:23	1
Toluene	ND		1.0	0.38	ug/L			07/03/18 11:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 11:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 11:23	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 11:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 11:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 11:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 11:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 11:23	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 11:23	1

Client Sample ID: PDI-TB-06222018

Lab Sample ID: 460-158997-1

Date Collected: 06/22/18 00:00
Matrix: Water
Date Received: 06/22/18 19:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*07/03/18 11:23*	*1*
4-Bromofluorobenzene	*80*		*77 - 124*		*07/03/18 11:23*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*07/03/18 11:23*	*1*
Dibromofluoromethane (Surr)	*93*		*72 - 131*		*07/03/18 11:23*	*1*

Client Sample ID: PDI-FB-06222018

Lab Sample ID: 460-158997-2

Date Collected: 06/22/18 09:00
Matrix: Water
Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 11:46	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 11:46	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 11:46	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 11:46	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 11:46	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 11:46	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 11:46	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 11:46	1
2-Butanone (MEK)	**16**		5.0	1.9	ug/L			07/03/18 11:46	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 11:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 11:46	1
Acetone	**16**		5.0	5.0	ug/L			07/03/18 11:46	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 11:46	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 11:46	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 11:46	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 11:46	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 11:46	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 11:46	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 11:46	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 11:46	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 11:46	1
Chloromethane	ND	*	1.0	0.14	ug/L			07/03/18 11:46	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 11:46	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 11:46	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 11:46	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 11:46	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 11:46	1
1,2-Dibromoethane	ND	*	1.0	0.50	ug/L			07/03/18 11:46	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 11:46	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 11:46	1
Methyl tert-butyl ether	ND	*	1.0	0.47	ug/L			07/03/18 11:46	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 11:46	1
Methylene Chloride	**5.2**		1.0	0.32	ug/L			07/03/18 11:46	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 11:46	1

Client Sample ID: PDI-FB-06222018

Lab Sample ID: 460-158997-2
Date Collected: 06/22/18 09:00
Matrix: Water
Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/03/18 11:46	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 11:46	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 11:46	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 11:46	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 11:46	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 11:46	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 11:46	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 11:46	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*86*		*74 - 132*		*07/03/18 11:46*	*1*
4-Bromofluorobenzene	*77*		*77 - 124*		*07/03/18 11:46*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*07/03/18 11:46*	*1*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*07/03/18 11:46*	*1*

Client Sample ID: PDI-14-WG-75-06222018

Lab Sample ID: 460-158997-3
Date Collected: 06/22/18 11:15
Matrix: Water
Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/04/18 17:54	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/04/18 17:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/04/18 17:54	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/04/18 17:54	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/04/18 17:54	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/04/18 17:54	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/04/18 17:54	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/04/18 17:54	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/04/18 17:54	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/04/18 17:54	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/04/18 17:54	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/04/18 17:54	1
2-Hexanone	ND		5.0	2.9	ug/L			07/04/18 17:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/04/18 17:54	1
Acetone	**15**		5.0	5.0	ug/L			07/04/18 17:54	1
Benzene	ND		1.0	0.43	ug/L			07/04/18 17:54	1
Bromoform	**0.83**	**J**	1.0	0.54	ug/L			07/04/18 17:54	1
Bromomethane	ND		1.0	1.0	ug/L			07/04/18 17:54	1
Carbon disulfide	**0.52**	**J**	1.0	0.16	ug/L			07/04/18 17:54	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/04/18 17:54	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/04/18 17:54	1
Dibromochloromethane	**0.42**	**J**	1.0	0.28	ug/L			07/04/18 17:54	1
Chloroethane	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Chloroform	ND		1.0	0.33	ug/L			07/04/18 17:54	1
Chloromethane	**0.24**	**J**	1.0	0.14	ug/L			07/04/18 17:54	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/04/18 17:54	1

Client Sample ID: PDI-14-WG-75-06222018

Lab Sample ID: 460-158997-3
Matrix: Water
Date Collected: 06/22/18 11:15
Date Received: 06/22/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/04/18 17:54	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/04/18 17:54	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/04/18 17:54	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/04/18 17:54	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/04/18 17:54	1
Methyl acetate	ND		5.0	0.31	ug/L			07/04/18 17:54	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/04/18 17:54	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/04/18 17:54	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/04/18 17:54	1
Tetrachloroethene	**0.31**	**J**	1.0	0.25	ug/L			07/04/18 17:54	1
Toluene	**0.51**	**J**	1.0	0.38	ug/L			07/04/18 17:54	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/04/18 17:54	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/04/18 17:54	1
Trichloroethene	**3.6**		1.0	0.31	ug/L			07/04/18 17:54	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/04/18 17:54	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/04/18 17:54	1
Xylenes, Total	**1.8**	**J**	2.0	0.65	ug/L			07/04/18 17:54	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/04/18 17:54	1
Styrene	ND		1.0	0.42	ug/L			07/04/18 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*		*07/04/18 17:54*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*07/04/18 17:54*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*		*07/04/18 17:54*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/04/18 17:54*	*1*

Client Sample ID: PDI-14-SO-55-06222018

Lab Sample ID: 460-158997-4
Matrix: Solid
Date Collected: 06/22/18 10:55
Date Received: 06/22/18 19:00
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	F1	0.86	0.20	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2,2-Tetrachloroethane	ND	F1	0.86	0.18	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	0.86	0.26	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1,2-Trichloroethane	ND	F1	0.86	0.15	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1-Dichloroethane	ND	F1	0.86	0.18	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,1-Dichloroethene	ND	F1	0.86	0.19	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2,4-Trichlorobenzene	ND	F1	0.86	0.079	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dibromo-3-Chloropropane	ND	F1	0.86	0.40	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichlorobenzene	ND	F1	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichloroethane	ND		0.86	0.26	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dichloropropane	ND	F1	0.86	0.37	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,3-Dichlorobenzene	ND	F1	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,4-Dichlorobenzene	ND	F1	0.86	0.086	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
2-Butanone (MEK)	**3.5**	**J F1**	4.3	0.96	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
2-Hexanone	ND	F1	4.3	0.67	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
4-Methyl-2-pentanone (MIBK)	ND	F1	4.3	0.57	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Acetone	**17**	**F1**	4.3	3.3	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1

Client Sample ID: PDI-14-SO-55-06222018
Date Collected: 06/22/18 10:55
Date Received: 06/22/18 19:00

Lab Sample ID: 460-158997-4
Matrix: Solid
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	F1	0.86	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromoform	ND		0.86	0.37	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromomethane	ND		0.86	0.41	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Carbon disulfide	ND	F1	0.86	0.23	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Carbon tetrachloride	ND	F1	0.86	0.16	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chlorobenzene	ND	F1	0.86	0.15	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Dibromochloromethane	ND	F1	0.86	0.17	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloroethane	ND		0.86	0.45	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloroform	ND	F1	0.86	0.28	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Chloromethane	ND		0.86	0.38	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
cis-1,2-Dichloroethene	**0.30**	**J F1**	0.86	0.13	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Cyclohexane	ND	F1	0.86	0.19	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Bromodichloromethane	ND	F1	0.86	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Dichlorodifluoromethane	ND		0.86	0.29	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Ethylbenzene	ND	F1	0.86	0.17	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
1,2-Dibromoethane	ND	F1	0.86	0.16	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Isopropylbenzene	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methyl acetate	ND	F1	4.3	3.7	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methyl tert-butyl ether	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methylcyclohexane	ND	F1	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Methylene Chloride	**0.32**	**J F1 B**	0.86	0.14	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Tetrachloroethene	**0.53**	**J F1**	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Toluene	ND	F1	0.86	0.54	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
trans-1,2-Dichloroethene	ND	F1	0.86	0.21	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
trans-1,3-Dichloropropene	ND	F1	0.86	0.23	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Trichloroethene	**8.5**	**F1**	0.86	0.12	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Trichlorofluoromethane	ND		0.86	0.35	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Vinyl chloride	ND		0.86	0.47	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Xylenes, Total	ND	F1	1.7	0.22	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
cis-1,3-Dichloropropene	ND	F1	0.86	0.24	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1
Styrene	ND	F1	0.86	0.11	ug/Kg	☼	06/23/18 06:49	07/04/18 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*124*		*78 - 135*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
4-Bromofluorobenzene	*108*		*67 - 126*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
Toluene-d8 (Surr)	*95*		*73 - 121*	*06/23/18 06:49*	*07/04/18 07:06*	*1*
Dibromofluoromethane (Surr)	*117*		*61 - 149*	*06/23/18 06:49*	*07/04/18 07:06*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**17.0**		1.0	1.0	%			06/26/18 08:58	1
Percent Solids	**83.0**		1.0	1.0	%			06/26/18 08:58	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-158997-4	PDI-14-SO-55-06222018	124	108	95	117
460-158997-4 MS	PDI-14MS-SO-55-06222018	121	108	96	115
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	122	107	98	118
LCS 460-533363/4	Lab Control Sample	112	109	98	116
LCSD 460-533363/5	Lab Control Sample Dup	112	108	98	117
MB 460-533363/8	Method Blank	113	106	95	116

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-158997-1	PDI-TB-06222018	87	80	107	93
460-158997-2	PDI-FB-06222018	86	77	89	90
460-158997-3	PDI-14-WG-75-06222018	92	106	94	108
LCS 460-533092/4	Lab Control Sample	84	87	104	95
LCS 460-533394/4	Lab Control Sample	88	105	92	101
LCSD 460-533092/5	Lab Control Sample Dup	87	93	94	102
MB 460-533092/8	Method Blank	85	83	101	91
MB 460-533394/8	Method Blank	92	107	95	110

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: 460-158997-4 MS
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MS-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND	F1	17.1	12.1	F1	ug/Kg	☼	71	80 - 125
1,1,2,2-Tetrachloroethane	ND	F1	17.1	10.1	F1	ug/Kg	☼	59	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	17.1	12.9	F1	ug/Kg	☼	75	78 - 132
1,1,2-Trichloroethane	ND	F1	17.1	11.4	F1	ug/Kg	☼	67	76 - 124
1,1-Dichloroethane	ND	F1	17.1	11.9	F1	ug/Kg	☼	70	80 - 124
1,1-Dichloroethene	ND	F1	17.1	11.6	F1	ug/Kg	☼	68	79 - 132
1,2,4-Trichlorobenzene	ND	F1	17.1	9.10	F1	ug/Kg	☼	53	74 - 124
1,2-Dibromo-3-Chloropropane	ND	F1	17.1	8.40	F1	ug/Kg	☼	49	65 - 129
1,2-Dichlorobenzene	ND	F1	17.1	9.93	F1	ug/Kg	☼	58	80 - 121
1,2-Dichloroethane	ND		17.1	12.6		ug/Kg	☼	74	68 - 120
1,2-Dichloropropane	ND	F1	17.1	11.4	F1	ug/Kg	☼	67	77 - 124
1,3-Dichlorobenzene	ND	F1	17.1	9.77	F1	ug/Kg	☼	57	79 - 124
1,4-Dichlorobenzene	ND	F1	17.1	9.57	F1	ug/Kg	☼	56	79 - 121
2-Butanone (MEK)	3.5	J F1	85.4	49.4	F1	ug/Kg	☼	54	61 - 140
2-Hexanone	ND	F1	85.4	48.2	F1	ug/Kg	☼	57	78 - 120
4-Methyl-2-pentanone (MIBK)	ND	F1	85.4	49.4	F1	ug/Kg	☼	58	80 - 120
Acetone	17	F1	85.4	79.2	F1	ug/Kg	☼	73	75 - 120
Benzene	ND	F1	17.1	10.3	F1	ug/Kg	☼	61	75 - 127
Bromoform	ND		17.1	7.97		ug/Kg	☼	47	19 - 150
Bromomethane	ND		17.1	16.1		ug/Kg	☼	95	59 - 136
Carbon disulfide	ND	F1	17.1	10.9	F1	ug/Kg	☼	64	74 - 130
Carbon tetrachloride	ND	F1	17.1	11.1	F1	ug/Kg	☼	65	77 - 138
Chlorobenzene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	80 - 120
Dibromochloromethane	ND	F1	17.1	8.38	F1	ug/Kg	☼	49	67 - 143
Chloroethane	ND		17.1	15.9		ug/Kg	☼	93	50 - 139
Chloroform	ND	F1	17.1	12.3	F1	ug/Kg	☼	72	80 - 122
Chloromethane	ND		17.1	15.2		ug/Kg	☼	89	66 - 128
cis-1,2-Dichloroethene	0.30	J F1	17.1	11.9	F1	ug/Kg	☼	68	80 - 123
Cyclohexane	ND	F1	17.1	11.0	F1	ug/Kg	☼	64	67 - 135
Bromodichloromethane	ND	F1	17.1	11.1	F1	ug/Kg	☼	65	76 - 129
Dichlorodifluoromethane	ND		17.1	14.0		ug/Kg	☼	82	72 - 127
Ethylbenzene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	79 - 124
1,2-Dibromoethane	ND	F1	17.1	10.4	F1	ug/Kg	☼	61	80 - 122
Isopropylbenzene	ND	F1	17.1	9.98	F1	ug/Kg	☼	58	80 - 125
Methyl acetate	ND	F1	34.1	19.3	F1	ug/Kg	☼	57	73 - 123
Methyl tert-butyl ether	ND	F1	17.1	12.2	F1	ug/Kg	☼	71	80 - 120
Methylcyclohexane	ND	F1	17.1	11.5	F1	ug/Kg	☼	67	71 - 137
Methylene Chloride	0.32	J F1 B	17.1	11.9	F1	ug/Kg	☼	68	79 - 128
Tetrachloroethene	0.53	J F1	17.1	11.4	F1	ug/Kg	☼	64	73 - 130
Toluene	ND	F1	17.1	10.2	F1	ug/Kg	☼	60	75 - 122
trans-1,2-Dichloroethene	ND	F1	17.1	11.2	F1	ug/Kg	☼	66	80 - 129
trans-1,3-Dichloropropene	ND	F1	17.1	9.62	F1	ug/Kg	☼	56	72 - 121
Trichloroethene	8.5	F1	17.1	15.6	F1	ug/Kg	☼	42	79 - 122
Trichlorofluoromethane	ND		17.1	16.4		ug/Kg	☼	96	68 - 136
Vinyl chloride	ND		17.1	15.1		ug/Kg	☼	88	70 - 134
cis-1,3-Dichloropropene	ND	F1	17.1	9.60	F1	ug/Kg	☼	56	75 - 124
Styrene	ND	F1	17.1	9.71	F1	ug/Kg	☼	57	78 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-158997-4 MS
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MS-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*121*		*78 - 135*
4-Bromofluorobenzene	*108*		*67 - 126*
Toluene-d8 (Surr)	*96*		*73 - 121*
Dibromofluoromethane (Surr)	*115*		*61 - 149*

Lab Sample ID: 460-158997-4 MSD
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MSD-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND	F1	16.4	13.2		ug/Kg	☼	81	80 - 125	9	30
1,1,2,2-Tetrachloroethane	ND	F1	16.4	10.8	F1	ug/Kg	☼	66	72 - 131	7	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	F1	16.4	14.0		ug/Kg	☼	85	78 - 132	8	30
1,1,2-Trichloroethane	ND	F1	16.4	11.9	F1	ug/Kg	☼	72	76 - 124	5	30
1,1-Dichloroethane	ND	F1	16.4	13.1		ug/Kg	☼	80	80 - 124	10	30
1,1-Dichloroethene	ND	F1	16.4	12.4	F1	ug/Kg	☼	75	79 - 132	6	30
1,2,4-Trichlorobenzene	ND	F1	16.4	10.0	F1	ug/Kg	☼	61	74 - 124	10	30
1,2-Dibromo-3-Chloropropane	ND	F1	16.4	8.90	F1	ug/Kg	☼	54	65 - 129	6	30
1,2-Dichlorobenzene	ND	F1	16.4	11.1	F1	ug/Kg	☼	67	80 - 121	11	30
1,2-Dichloroethane	ND		16.4	13.9		ug/Kg	☼	85	68 - 120	10	30
1,2-Dichloropropane	ND	F1	16.4	12.5	F1	ug/Kg	☼	76	77 - 124	9	30
1,3-Dichlorobenzene	ND	F1	16.4	10.7	F1	ug/Kg	☼	65	79 - 124	9	30
1,4-Dichlorobenzene	ND	F1	16.4	10.6	F1	ug/Kg	☼	65	79 - 121	10	30
2-Butanone (MEK)	3.5	J F1	82.0	54.9		ug/Kg	☼	63	61 - 140	11	30
2-Hexanone	ND	F1	82.0	53.8	F1	ug/Kg	☼	66	78 - 120	11	30
4-Methyl-2-pentanone (MIBK)	ND	F1	82.0	54.5	F1	ug/Kg	☼	67	80 - 120	10	30
Acetone	17	F1	82.0	78.3		ug/Kg	☼	75	75 - 120	1	30
Benzene	ND	F1	16.4	11.5	F1	ug/Kg	☼	70	75 - 127	10	30
Bromoform	ND		16.4	8.66		ug/Kg	☼	53	19 - 150	8	30
Bromomethane	ND		16.4	17.3		ug/Kg	☼	106	59 - 136	7	30
Carbon disulfide	ND	F1	16.4	12.2		ug/Kg	☼	74	74 - 130	11	30
Carbon tetrachloride	ND	F1	16.4	12.3	F1	ug/Kg	☼	75	77 - 138	10	30
Chlorobenzene	ND	F1	16.4	11.2	F1	ug/Kg	☼	68	80 - 120	9	30
Dibromochloromethane	ND	F1	16.4	9.27	F1	ug/Kg	☼	57	67 - 143	10	30
Chloroethane	ND		16.4	17.2		ug/Kg	☼	105	50 - 139	8	30
Chloroform	ND	F1	16.4	13.4		ug/Kg	☼	82	80 - 122	8	30
Chloromethane	ND		16.4	15.6		ug/Kg	☼	95	66 - 128	3	30
cis-1,2-Dichloroethene	0.30	J F1	16.4	12.7	F1	ug/Kg	☼	76	80 - 123	7	30
Cyclohexane	ND	F1	16.4	11.4		ug/Kg	☼	70	67 - 135	4	30
Bromodichloromethane	ND	F1	16.4	11.9	F1	ug/Kg	☼	73	76 - 129	7	30
Dichlorodifluoromethane	ND		16.4	14.7		ug/Kg	☼	90	72 - 127	5	30
Ethylbenzene	ND	F1	16.4	10.5	F1	ug/Kg	☼	64	79 - 124	4	30
1,2-Dibromoethane	ND	F1	16.4	11.5	F1	ug/Kg	☼	70	80 - 122	10	30
Isopropylbenzene	ND	F1	16.4	10.9	F1	ug/Kg	☼	66	80 - 125	9	30
Methyl acetate	ND	F1	32.8	21.9	F1	ug/Kg	☼	67	73 - 123	12	30
Methyl tert-butyl ether	ND	F1	16.4	13.4		ug/Kg	☼	81	80 - 120	9	30
Methylcyclohexane	ND	F1	16.4	12.4		ug/Kg	☼	75	71 - 137	7	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-158997-4 MSD
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: PDI-14MSD-SO-55-06222018
Prep Type: Total/NA
Prep Batch: 530346

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	0.32	J F1 B	16.4	12.9	F1	ug/Kg	☼	77	79 - 128	8	30
Tetrachloroethene	0.53	J F1	16.4	12.4	F1	ug/Kg	☼	72	73 - 130	8	30
Toluene	ND	F1	16.4	11.2	F1	ug/Kg	☼	68	75 - 122	9	30
trans-1,2-Dichloroethene	ND	F1	16.4	12.0	F1	ug/Kg	☼	73	80 - 129	7	30
trans-1,3-Dichloropropene	ND	F1	16.4	10.5	F1	ug/Kg	☼	64	72 - 121	9	30
Trichloroethene	8.5	F1	16.4	16.1	F1	ug/Kg	☼	46	79 - 122	3	30
Trichlorofluoromethane	ND		16.4	16.6		ug/Kg	☼	101	68 - 136	1	30
Vinyl chloride	ND		16.4	15.7		ug/Kg	☼	96	70 - 134	4	30
cis-1,3-Dichloropropene	ND	F1	16.4	10.6	F1	ug/Kg	☼	65	75 - 124	10	30
Styrene	ND	F1	16.4	10.4	F1	ug/Kg	☼	64	78 - 123	7	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*122*		*78 - 135*
4-Bromofluorobenzene	*107*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*118*		*61 - 149*

Lab Sample ID: MB 460-533092/8
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/03/18 10:17	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/03/18 10:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/03/18 10:17	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/03/18 10:17	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/03/18 10:17	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/03/18 10:17	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/03/18 10:17	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/03/18 10:17	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/03/18 10:17	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/03/18 10:17	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/03/18 10:17	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/03/18 10:17	1
2-Hexanone	ND		5.0	2.9	ug/L			07/03/18 10:17	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/03/18 10:17	1
Acetone	ND		5.0	5.0	ug/L			07/03/18 10:17	1
Benzene	ND		1.0	0.43	ug/L			07/03/18 10:17	1
Bromoform	ND		1.0	0.54	ug/L			07/03/18 10:17	1
Bromomethane	ND		1.0	1.0	ug/L			07/03/18 10:17	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/03/18 10:17	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/03/18 10:17	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/03/18 10:17	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/03/18 10:17	1
Chloroethane	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Chloroform	ND		1.0	0.33	ug/L			07/03/18 10:17	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533092/8
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		1.0	0.14	ug/L			07/03/18 10:17	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/03/18 10:17	1
Cyclohexane	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/03/18 10:17	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/03/18 10:17	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/03/18 10:17	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/03/18 10:17	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/03/18 10:17	1
Methyl acetate	ND		5.0	0.31	ug/L			07/03/18 10:17	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/03/18 10:17	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/03/18 10:17	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/03/18 10:17	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/03/18 10:17	1
Toluene	ND		1.0	0.38	ug/L			07/03/18 10:17	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/03/18 10:17	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/03/18 10:17	1
Trichloroethene	ND		1.0	0.31	ug/L			07/03/18 10:17	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/03/18 10:17	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/03/18 10:17	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/03/18 10:17	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/03/18 10:17	1
Styrene	ND		1.0	0.42	ug/L			07/03/18 10:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 132*		*07/03/18 10:17*	*1*
4-Bromofluorobenzene	*83*		*77 - 124*		*07/03/18 10:17*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*07/03/18 10:17*	*1*
Dibromofluoromethane (Surr)	*91*		*72 - 131*		*07/03/18 10:17*	*1*

Lab Sample ID: LCS 460-533092/4
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.8		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	15.2		ug/L		76	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.1		ug/L		86	59 - 150
1,1,2-Trichloroethane	20.0	18.0		ug/L		90	78 - 120
1,1-Dichloroethane	20.0	18.0		ug/L		90	77 - 123
1,1-Dichloroethene	20.0	17.1		ug/L		86	74 - 123
1,2,4-Trichlorobenzene	20.0	18.2		ug/L		91	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	14.5		ug/L		72	55 - 134
1,2-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120
1,2-Dichloroethane	20.0	15.8		ug/L		79	76 - 121
1,2-Dichloropropane	20.0	18.4		ug/L		92	77 - 123
1,3-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-533092/4
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	100	108		ug/L		108	64 - 120
2-Hexanone	100	84.8		ug/L		85	71 - 125
4-Methyl-2-pentanone (MIBK)	100	92.1		ug/L		92	78 - 124
Acetone	100	93.2		ug/L		93	39 - 150
Benzene	20.0	22.5		ug/L		113	77 - 121
Bromoform	20.0	16.0		ug/L		80	53 - 120
Bromomethane	20.0	20.2		ug/L		101	10 - 150
Carbon disulfide	20.0	16.7		ug/L		84	69 - 133
Carbon tetrachloride	20.0	21.6		ug/L		108	70 - 132
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120
Dibromochloromethane	20.0	19.4		ug/L		97	73 - 120
Chloroethane	20.0	22.6		ug/L		113	52 - 150
Chloroform	20.0	19.8		ug/L		99	80 - 120
Chloromethane	20.0	33.2	*	ug/L		166	56 - 131
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120
Cyclohexane	20.0	15.9		ug/L		79	56 - 150
Bromodichloromethane	20.0	19.0		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	20.8		ug/L		104	50 - 131
Ethylbenzene	20.0	19.7		ug/L		99	80 - 120
1,2-Dibromoethane	20.0	15.8	*	ug/L		79	80 - 120
Isopropylbenzene	20.0	19.3		ug/L		96	80 - 123
Methyl acetate	40.0	41.9		ug/L		105	66 - 144
Methyl tert-butyl ether	20.0	13.8	*	ug/L		69	79 - 122
Methylcyclohexane	20.0	17.5		ug/L		88	61 - 145
Methylene Chloride	20.0	15.8		ug/L		79	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	21.0		ug/L		105	80 - 120
trans-1,2-Dichloroethene	20.0	15.9		ug/L		80	79 - 120
trans-1,3-Dichloropropene	20.0	19.6		ug/L		98	76 - 120
Trichloroethene	20.0	19.8		ug/L		99	77 - 120
Trichlorofluoromethane	20.0	20.7		ug/L		104	71 - 143
Vinyl chloride	20.0	19.5		ug/L		97	62 - 138
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 120
Styrene	20.0	18.7		ug/L		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*84*		*74 - 132*
4-Bromofluorobenzene	*87*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*95*		*72 - 131*

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.8		ug/L		114	75 - 125	14	30
1,1,2,2-Tetrachloroethane	20.0	17.7		ug/L		88	74 - 120	15	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4		ug/L		97	59 - 150	13	30
1,1,2-Trichloroethane	20.0	16.8		ug/L		84	78 - 120	7	30
1,1-Dichloroethane	20.0	22.7		ug/L		113	77 - 123	23	30
1,1-Dichloroethene	20.0	20.1		ug/L		100	74 - 123	16	30
1,2,4-Trichlorobenzene	20.0	18.8		ug/L		94	80 - 124	3	30
1,2-Dibromo-3-Chloropropane	20.0	14.1		ug/L		71	55 - 134	2	30
1,2-Dichlorobenzene	20.0	20.0		ug/L		100	80 - 120	7	30
1,2-Dichloroethane	20.0	17.3		ug/L		87	76 - 121	9	30
1,2-Dichloropropane	20.0	22.0		ug/L		110	77 - 123	18	30
1,3-Dichlorobenzene	20.0	21.4		ug/L		107	80 - 120	11	30
1,4-Dichlorobenzene	20.0	21.5		ug/L		107	80 - 120	8	30
2-Butanone (MEK)	100	112		ug/L		112	64 - 120	4	30
2-Hexanone	100	94.0		ug/L		94	71 - 125	10	30
4-Methyl-2-pentanone (MIBK)	100	93.2		ug/L		93	78 - 124	1	30
Acetone	100	110		ug/L		110	39 - 150	17	30
Benzene	20.0	22.2		ug/L		111	77 - 121	2	30
Bromoform	20.0	18.0		ug/L		90	53 - 120	12	30
Bromomethane	20.0	21.5		ug/L		108	10 - 150	6	30
Carbon disulfide	20.0	19.6		ug/L		98	69 - 133	16	30
Carbon tetrachloride	20.0	23.8		ug/L		119	70 - 132	10	30
Chlorobenzene	20.0	21.4		ug/L		107	80 - 120	10	30
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120	2	30
Chloroethane	20.0	22.0		ug/L		110	52 - 150	3	30
Chloroform	20.0	22.2		ug/L		111	80 - 120	12	30
Chloromethane	20.0	31.1	*	ug/L		156	56 - 131	6	30
cis-1,2-Dichloroethene	20.0	22.6		ug/L		113	80 - 120	17	30
Cyclohexane	20.0	18.7		ug/L		94	56 - 150	16	30
Bromodichloromethane	20.0	21.2		ug/L		106	76 - 120	11	30
Dichlorodifluoromethane	20.0	20.5		ug/L		102	50 - 131	1	30
Ethylbenzene	20.0	20.9		ug/L		104	80 - 120	6	30
1,2-Dibromoethane	20.0	16.8		ug/L		84	80 - 120	6	30
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 123	7	30
Methyl acetate	40.0	51.1		ug/L		128	66 - 144	20	30
Methyl tert-butyl ether	20.0	17.4		ug/L		87	79 - 122	23	30
Methylcyclohexane	20.0	18.5		ug/L		92	61 - 145	5	30
Methylene Chloride	20.0	21.0		ug/L		105	77 - 123	28	30
Tetrachloroethene	20.0	19.2		ug/L		96	78 - 122	3	30
Toluene	20.0	20.2		ug/L		101	80 - 120	4	30
trans-1,2-Dichloroethene	20.0	21.4		ug/L		107	79 - 120	29	30
trans-1,3-Dichloropropene	20.0	19.0		ug/L		95	76 - 120	3	30
Trichloroethene	20.0	21.7		ug/L		109	77 - 120	9	30
Trichlorofluoromethane	20.0	20.5		ug/L		102	71 - 143	1	30
Vinyl chloride	20.0	20.4		ug/L		102	62 - 138	4	30
cis-1,3-Dichloropropene	20.0	19.8		ug/L		99	77 - 120	0	30
Styrene	20.0	19.5		ug/L		97	80 - 120	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-533092/5
Matrix: Water
Analysis Batch: 533092

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Lab Sample ID: MB 460-533363/8
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/04/18 02:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/04/18 02:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/04/18 02:37	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/04/18 02:37	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/04/18 02:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/04/18 02:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/04/18 02:37	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/04/18 02:37	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/04/18 02:37	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/04/18 02:37	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/04/18 02:37	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/04/18 02:37	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/04/18 02:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/04/18 02:37	1
Acetone	ND		5.0	3.8	ug/Kg			07/04/18 02:37	1
Benzene	ND		1.0	0.26	ug/Kg			07/04/18 02:37	1
Bromoform	ND		1.0	0.43	ug/Kg			07/04/18 02:37	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/04/18 02:37	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/04/18 02:37	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/04/18 02:37	1
Chloroform	ND		1.0	0.32	ug/Kg			07/04/18 02:37	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/04/18 02:37	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/04/18 02:37	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/04/18 02:37	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/04/18 02:37	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/04/18 02:37	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/04/18 02:37	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/04/18 02:37	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/04/18 02:37	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/04/18 02:37	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/04/18 02:37	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/04/18 02:37	1
Methylene Chloride	0.427	J	1.0	0.16	ug/Kg			07/04/18 02:37	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533363/8
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
Toluene	ND		1.0	0.63	ug/Kg			07/04/18 02:37	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/04/18 02:37	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/04/18 02:37	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/04/18 02:37	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/04/18 02:37	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/04/18 02:37	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/04/18 02:37	1
Styrene	ND		1.0	0.12	ug/Kg			07/04/18 02:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*78 - 135*		*07/04/18 02:37*	*1*
4-Bromofluorobenzene	*106*		*67 - 126*		*07/04/18 02:37*	*1*
Toluene-d8 (Surr)	*95*		*73 - 121*		*07/04/18 02:37*	*1*
Dibromofluoromethane (Surr)	*116*		*61 - 149*		*07/04/18 02:37*	*1*

Lab Sample ID: LCS 460-533363/4
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	21.6		ug/Kg		108	80 - 125
1,1,2,2-Tetrachloroethane	20.0	16.4		ug/Kg		82	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.0		ug/Kg		115	78 - 132
1,1,2-Trichloroethane	20.0	18.2		ug/Kg		91	76 - 124
1,1-Dichloroethane	20.0	21.2		ug/Kg		106	80 - 124
1,1-Dichloroethene	20.0	20.4		ug/Kg		102	79 - 132
1,2,4-Trichlorobenzene	20.0	18.7		ug/Kg		94	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	13.7		ug/Kg		69	65 - 129
1,2-Dichlorobenzene	20.0	18.6		ug/Kg		93	80 - 121
1,2-Dichloroethane	20.0	21.0		ug/Kg		105	68 - 120
1,2-Dichloropropane	20.0	20.0		ug/Kg		100	77 - 124
1,3-Dichlorobenzene	20.0	18.2		ug/Kg		91	79 - 124
1,4-Dichlorobenzene	20.0	18.1		ug/Kg		91	79 - 121
2-Butanone (MEK)	100	89.2		ug/Kg		89	61 - 140
2-Hexanone	100	91.3		ug/Kg		91	78 - 120
4-Methyl-2-pentanone (MIBK)	100	93.5		ug/Kg		93	80 - 120
Acetone	100	94.0		ug/Kg		94	75 - 120
Benzene	20.0	18.3		ug/Kg		92	75 - 127
Bromoform	20.0	14.0		ug/Kg		70	19 - 150
Bromomethane	20.0	25.6		ug/Kg		128	59 - 136
Carbon disulfide	20.0	19.8		ug/Kg		99	74 - 130
Carbon tetrachloride	20.0	20.5		ug/Kg		103	77 - 138
Chlorobenzene	20.0	18.8		ug/Kg		94	80 - 120
Dibromochloromethane	20.0	14.9		ug/Kg		75	67 - 143
Chloroethane	20.0	26.1		ug/Kg		131	50 - 139

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-533363/4
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloroform	20.0	21.7		ug/Kg		108	80 - 122
Chloromethane	20.0	23.6		ug/Kg		118	66 - 128
cis-1,2-Dichloroethene	20.0	20.5		ug/Kg		103	80 - 123
Cyclohexane	20.0	20.5		ug/Kg		102	67 - 135
Bromodichloromethane	20.0	19.0		ug/Kg		95	76 - 129
Dichlorodifluoromethane	20.0	22.0		ug/Kg		110	72 - 127
Ethylbenzene	20.0	18.0		ug/Kg		90	79 - 124
1,2-Dibromoethane	20.0	17.7		ug/Kg		89	80 - 122
Isopropylbenzene	20.0	18.7		ug/Kg		94	80 - 125
Methyl acetate	40.0	36.7		ug/Kg		92	73 - 123
Methyl tert-butyl ether	20.0	20.2		ug/Kg		101	80 - 120
Methylcyclohexane	20.0	20.7		ug/Kg		104	71 - 137
Methylene Chloride	20.0	20.3		ug/Kg		102	79 - 128
Tetrachloroethene	20.0	21.0		ug/Kg		105	73 - 130
Toluene	20.0	18.4		ug/Kg		92	75 - 122
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	80 - 129
trans-1,3-Dichloropropene	20.0	16.5		ug/Kg		83	72 - 121
Trichloroethene	20.0	20.6		ug/Kg		103	79 - 122
Trichlorofluoromethane	20.0	25.5		ug/Kg		127	68 - 136
Vinyl chloride	20.0	24.1		ug/Kg		121	70 - 134
cis-1,3-Dichloropropene	20.0	16.8		ug/Kg		84	75 - 124
Styrene	20.0	18.2		ug/Kg		91	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 135*
4-Bromofluorobenzene	*109*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*116*		*61 - 149*

Lab Sample ID: LCSD 460-533363/5
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	22.3		ug/Kg		111	80 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	16.1		ug/Kg		80	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5		ug/Kg		113	78 - 132	2	30
1,1,2-Trichloroethane	20.0	18.6		ug/Kg		93	76 - 124	2	30
1,1-Dichloroethane	20.0	21.2		ug/Kg		106	80 - 124	0	30
1,1-Dichloroethene	20.0	21.6		ug/Kg		108	79 - 132	5	30
1,2,4-Trichlorobenzene	20.0	19.1		ug/Kg		95	74 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	13.4		ug/Kg		67	65 - 129	2	30
1,2-Dichlorobenzene	20.0	18.7		ug/Kg		94	80 - 121	1	30
1,2-Dichloroethane	20.0	21.1		ug/Kg		105	68 - 120	0	30
1,2-Dichloropropane	20.0	19.7		ug/Kg		98	77 - 124	2	30
1,3-Dichlorobenzene	20.0	18.8		ug/Kg		94	79 - 124	3	30
1,4-Dichlorobenzene	20.0	18.6		ug/Kg		93	79 - 121	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-533363/5
Matrix: Solid
Analysis Batch: 533363

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)			100	89.5		ug/Kg		90	61 - 140	0	30
2-Hexanone			100	90.8		ug/Kg		91	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)			100	93.1		ug/Kg		93	80 - 120	0	30
Acetone			100	99.6		ug/Kg		100	75 - 120	6	30
Benzene			20.0	18.9		ug/Kg		95	75 - 127	3	30
Bromoform			20.0	14.0		ug/Kg		70	19 - 150	0	30
Bromomethane			20.0	25.8		ug/Kg		129	59 - 136	1	30
Carbon disulfide			20.0	20.2		ug/Kg		101	74 - 130	2	30
Carbon tetrachloride			20.0	20.8		ug/Kg		104	77 - 138	1	30
Chlorobenzene			20.0	18.9		ug/Kg		95	80 - 120	1	30
Dibromochloromethane			20.0	15.5		ug/Kg		77	67 - 143	4	30
Chloroethane			20.0	24.9		ug/Kg		124	50 - 139	5	30
Chloroform			20.0	21.7		ug/Kg		109	80 - 122	0	30
Chloromethane			20.0	24.4		ug/Kg		122	66 - 128	4	30
cis-1,2-Dichloroethene			20.0	20.7		ug/Kg		104	80 - 123	1	30
Cyclohexane			20.0	20.1		ug/Kg		100	67 - 135	2	30
Bromodichloromethane			20.0	19.4		ug/Kg		97	76 - 129	2	30
Dichlorodifluoromethane			20.0	23.0		ug/Kg		115	72 - 127	4	30
Ethylbenzene			20.0	18.9		ug/Kg		94	79 - 124	5	30
1,2-Dibromoethane			20.0	17.7		ug/Kg		89	80 - 122	0	30
Isopropylbenzene			20.0	19.5		ug/Kg		97	80 - 125	4	30
Methyl acetate			40.0	38.1		ug/Kg		95	73 - 123	4	30
Methyl tert-butyl ether			20.0	21.0		ug/Kg		105	80 - 120	4	30
Methylcyclohexane			20.0	20.9		ug/Kg		105	71 - 137	1	30
Methylene Chloride			20.0	20.2		ug/Kg		101	79 - 128	0	30
Tetrachloroethene			20.0	21.4		ug/Kg		107	73 - 130	2	30
Toluene			20.0	18.7		ug/Kg		94	75 - 122	2	30
trans-1,2-Dichloroethene			20.0	20.7		ug/Kg		104	80 - 129	1	30
trans-1,3-Dichloropropene			20.0	16.9		ug/Kg		85	72 - 121	2	30
Trichloroethene			20.0	21.2		ug/Kg		106	79 - 122	3	30
Trichlorofluoromethane			20.0	25.1		ug/Kg		125	68 - 136	2	30
Vinyl chloride			20.0	24.6		ug/Kg		123	70 - 134	2	30
cis-1,3-Dichloropropene			20.0	17.4		ug/Kg		87	75 - 124	3	30
Styrene			20.0	18.1		ug/Kg		90	78 - 123	0	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*78 - 135*
4-Bromofluorobenzene	*108*		*67 - 126*
Toluene-d8 (Surr)	*98*		*73 - 121*
Dibromofluoromethane (Surr)	*117*		*61 - 149*

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/04/18 10:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/04/18 10:02	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/04/18 10:02	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/04/18 10:02	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/04/18 10:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/04/18 10:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/04/18 10:02	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/04/18 10:02	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/04/18 10:02	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/04/18 10:02	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/04/18 10:02	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/04/18 10:02	1
2-Hexanone	ND		5.0	2.9	ug/L			07/04/18 10:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/04/18 10:02	1
Acetone	ND		5.0	5.0	ug/L			07/04/18 10:02	1
Benzene	ND		1.0	0.43	ug/L			07/04/18 10:02	1
Bromoform	ND		1.0	0.54	ug/L			07/04/18 10:02	1
Bromomethane	ND		1.0	1.0	ug/L			07/04/18 10:02	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/04/18 10:02	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/04/18 10:02	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/04/18 10:02	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/04/18 10:02	1
Chloroethane	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Chloroform	ND		1.0	0.33	ug/L			07/04/18 10:02	1
Chloromethane	ND		1.0	0.14	ug/L			07/04/18 10:02	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/04/18 10:02	1
Cyclohexane	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/04/18 10:02	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/04/18 10:02	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/04/18 10:02	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/04/18 10:02	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/04/18 10:02	1
Methyl acetate	ND		5.0	0.31	ug/L			07/04/18 10:02	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/04/18 10:02	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/04/18 10:02	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/04/18 10:02	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/04/18 10:02	1
Toluene	ND		1.0	0.38	ug/L			07/04/18 10:02	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/04/18 10:02	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/04/18 10:02	1
Trichloroethene	ND		1.0	0.31	ug/L			07/04/18 10:02	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/04/18 10:02	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/04/18 10:02	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/04/18 10:02	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/04/18 10:02	1
Styrene	ND		1.0	0.42	ug/L			07/04/18 10:02	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-533394/8
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		74 - 132		07/04/18 10:02	1
4-Bromofluorobenzene	107		77 - 124		07/04/18 10:02	1
Toluene-d8 (Surr)	95		80 - 120		07/04/18 10:02	1
Dibromofluoromethane (Surr)	110		72 - 131		07/04/18 10:02	1

Lab Sample ID: LCS 460-533394/4
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	17.4		ug/L		87	75 - 125
1,1,2,2-Tetrachloroethane	20.0	16.8		ug/L		84	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.1		ug/L		90	59 - 150
1,1,2-Trichloroethane	20.0	16.6		ug/L		83	78 - 120
1,1-Dichloroethane	20.0	17.3		ug/L		86	77 - 123
1,1-Dichloroethene	20.0	17.1		ug/L		86	74 - 123
1,2,4-Trichlorobenzene	20.0	20.8		ug/L		104	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	16.3		ug/L		82	55 - 134
1,2-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
1,2-Dichloroethane	20.0	16.6		ug/L		83	76 - 121
1,2-Dichloropropane	20.0	17.6		ug/L		88	77 - 123
1,3-Dichlorobenzene	20.0	18.5		ug/L		92	80 - 120
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
2-Butanone (MEK)	100	96.7		ug/L		97	64 - 120
2-Hexanone	100	83.7		ug/L		84	71 - 125
4-Methyl-2-pentanone (MIBK)	100	91.6		ug/L		92	78 - 124
Acetone	100	86.8		ug/L		87	39 - 150
Benzene	20.0	16.9		ug/L		85	77 - 121
Bromoform	20.0	20.3		ug/L		101	53 - 120
Bromomethane	20.0	18.2		ug/L		91	10 - 150
Carbon disulfide	20.0	17.1		ug/L		86	69 - 133
Carbon tetrachloride	20.0	18.5		ug/L		93	70 - 132
Chlorobenzene	20.0	18.5		ug/L		92	80 - 120
Dibromochloromethane	20.0	18.0		ug/L		90	73 - 120
Chloroethane	20.0	17.3		ug/L		86	52 - 150
Chloroform	20.0	17.9		ug/L		89	80 - 120
Chloromethane	20.0	16.2		ug/L		81	56 - 131
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	80 - 120
Cyclohexane	20.0	18.8		ug/L		94	56 - 150
Bromodichloromethane	20.0	17.4		ug/L		87	76 - 120
Dichlorodifluoromethane	20.0	16.9		ug/L		84	50 - 131
Ethylbenzene	20.0	17.3		ug/L		86	80 - 120
1,2-Dibromoethane	20.0	17.5		ug/L		88	80 - 120
Isopropylbenzene	20.0	18.7		ug/L		94	80 - 123
Methyl acetate	40.0	34.5		ug/L		86	66 - 144
Methyl tert-butyl ether	20.0	18.3		ug/L		92	79 - 122
Methylcyclohexane	20.0	18.2		ug/L		91	61 - 145

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-533394/4
Matrix: Water
Analysis Batch: 533394

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Methylene Chloride			20.0	18.2		ug/L		91	77 - 123		
Tetrachloroethene			20.0	18.6		ug/L		93	78 - 122		
Toluene			20.0	17.5		ug/L		87	80 - 120		
trans-1,2-Dichloroethene			20.0	18.2		ug/L		91	79 - 120		
trans-1,3-Dichloropropene			20.0	16.3		ug/L		81	76 - 120		
Trichloroethene			20.0	17.5		ug/L		87	77 - 120		
Trichlorofluoromethane			20.0	16.4		ug/L		82	71 - 143		
Vinyl chloride			20.0	17.1		ug/L		86	62 - 138		
cis-1,3-Dichloropropene			20.0	16.2		ug/L		81	77 - 120		
Styrene			20.0	19.2		ug/L		96	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*
4-Bromofluorobenzene	*105*		*77 - 124*
Toluene-d8 (Surr)	*92*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

GC/MS VOA

Prep Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	5035	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	5035	
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	5035	

Analysis Batch: 533092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-1	PDI-TB-06222018	Total/NA	Water	8260C	
460-158997-2	PDI-FB-06222018	Total/NA	Water	8260C	
MB 460-533092/8	Method Blank	Total/NA	Water	8260C	
LCS 460-533092/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-533092/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 533363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	8260C	530346
MB 460-533363/8	Method Blank	Total/NA	Solid	8260C	
LCS 460-533363/4	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-533363/5	Lab Control Sample Dup	Total/NA	Solid	8260C	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	8260C	530346
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	8260C	530346

Analysis Batch: 533394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-3	PDI-14-WG-75-06222018	Total/NA	Water	8260C	
MB 460-533394/8	Method Blank	Total/NA	Water	8260C	
LCS 460-533394/4	Lab Control Sample	Total/NA	Water	8260C	

General Chemistry

Analysis Batch: 531036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-158997-4	PDI-14-SO-55-06222018	Total/NA	Solid	Moisture	
460-158997-4 MS	PDI-14MS-SO-55-06222018	Total/NA	Solid	Moisture	
460-158997-4 MSD	PDI-14MSD-SO-55-06222018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Client Sample ID: PDI-TB-06222018
Lab Sample ID: 460-158997-1
Date Collected: 06/22/18 00:00
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533092	07/03/18 11:23	AAT	TAL EDI

Client Sample ID: PDI-FB-06222018
Lab Sample ID: 460-158997-2
Date Collected: 06/22/18 09:00
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533092	07/03/18 11:46	AAT	TAL EDI

Client Sample ID: PDI-14-WG-75-06222018
Lab Sample ID: 460-158997-3
Date Collected: 06/22/18 11:15
Matrix: Water
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	533394	07/04/18 17:54	AAT	TAL EDI

Client Sample ID: PDI-14-SO-55-06222018
Lab Sample ID: 460-158997-4
Date Collected: 06/22/18 10:55
Matrix: Solid
Date Received: 06/22/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	531036	06/26/18 08:58	BJP	TAL EDI

Client Sample ID: PDI-14-SO-55-06222018
Lab Sample ID: 460-158997-4
Date Collected: 06/22/18 10:55
Matrix: Solid
Date Received: 06/22/18 19:00
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:49	DBM	TAL EDI
Total/NA	Analysis	8260C		1	533363	07/04/18 07:06	MZS	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-158997-1	PDI-TB-06222018	Water	06/22/18 00:00	06/22/18 19:00
460-158997-2	PDI-FB-06222018	Water	06/22/18 09:00	06/22/18 19:00
460-158997-3	PDI-14-WG-75-06222018	Water	06/22/18 11:15	06/22/18 19:00
460-158997-4	PDI-14-SO-55-06222018	Solid	06/22/18 10:55	06/22/18 19:00

Frank Robinson

NYSC 460501

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 158997
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
PDI-TB-06222018	6/22/18	—	—	Water			✓						Trip Blank 1
PDI-FB-06222018	6/22/18	0900	—	Water			✓						Field Blank 2
PDI-14-WG-75-06222014	6/22/18	1115	G	Water			✓						3
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

SHORT HOLD

460-158997 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/22/18 1920	Company: Cdm	Received by:	Date/Time: 6/22/18 1920	Company:		
Relinquished by:	Date/Time: 6/24/18 1800	Company: F.E.	Received by:	Date/Time: 06/22/18 1900	Company: TA edi		
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company		
Custody Seals Intact: △ Yes △ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

1.5/ 1.5 ER# 11 no

Ver: 08/04/2016

7/9/2018

Page 30 of 34

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC
460561

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

7/9/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 158997

Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Latham	TAT Requested (days):		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		Other:
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-14-SO-55-06222018	6/22/18	1055	G	Solid	✓	✓								4
PDI-14MS-SO-55-06222018	6/22/18	1055	G	Solid	✓	✓								MS 4
PDI-14MSD-SO-55-06222018	6/22/18	1055	G	Solid	✓	✓								MSD 4
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Frank Robinson	6/22/18 1420	CDM		6/22/18 1420	TA
2		6/22/18 1500	TA		06/22/18 1900	TA
3		Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Page 31 of 34

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 158997

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.5 °C	1.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 6/22/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-158997-1

Login Number: 158997
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-158997-1

Login Number: 158997
List Number: 2
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background		
The cooler's custody seal, if present, is intact.		
The cooler or samples do not appear to have been compromised or tampered with.		
Samples were received on ice.		
Cooler Temperature is acceptable.		
Cooler Temperature is recorded.		
COC is present.		
COC is filled out in ink and legible.		
COC is filled out with all pertinent information.		
Is the Field Sampler's name present on COC?		
There are no discrepancies between the sample IDs on the containers and the COC.		
Samples are received within Holding Time (Excluding tests with immediate HTs)..		
Sample containers have legible labels.		
Containers are not broken or leaking.		
Sample collection date/times are provided.		
Appropriate sample containers are used.		
Sample bottles are completely filled.		
Sample Preservation Verified		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs		
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.		
If necessary, staff have been informed of any short hold time or quick TAT needs		
Multiphasic samples are not present.		
Samples do not require splitting or compositing.		
Sampling Company provided.		
Samples received within 48 hours of sampling.		
Samples requiring field filtration have been filtered in the field.		
Chlorine Residual checked.		

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159001-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/6/2018 9:14 AM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/06/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 17

QC Sample Results 18

Definitions 27

QC Association 28

Chronicle 29

Certification Summary 31

Organic Sample Data 32

GC/MS VOA 32

8260C 32

8260C QC Summary 33

8260C Sample Data 55

Standards Data 129

8260C ICAL Data 129

8260C CCAL Data 352

Raw QC Data 371

8260C Tune Data 371

8260C Blank Data 383

8260C LCS/LCSD Data 394

8260C MS/MSD Data 416

Table of Contents

8260C Run Logs 432

8260C Prep Data 436

Inorganic Sample Data 439

General Chemistry Data 439

Gen Chem Cover Page 440

Gen Chem MDL 441

Gen Chem Analysis Run Log 443

Gen Chem Prep Data 444

Shipping and Receiving Documents 445

Client Chain of Custody 446

Sample Receipt Checklist 449

Job Narrative
460-159001-1

Receipt
The samples were received on 6/21/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 460-532483 recovered outside acceptance criteria, low biased, for Bromomethane, Chloromethane and cis-1,2-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 460-532483 recovered outside control limits for the following analyte: cis-1,2-Dichloroethene. This analyte was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159001-1	PDI-TB-06202018	Water	06/20/18 00:00	06/21/18 20:00
460-159001-2	PDI-FB-06202018	Water	06/20/18 14:00	06/21/18 20:00
460-159001-3	PDI-12-WG-75-06202018	Water	06/20/18 14:30	06/21/18 20:00
460-159001-4	PDI-FB-06212018	Water	06/21/18 12:35	06/21/18 20:00
460-159001-5	PDI-13-WG-75-06212018	Water	06/21/18 13:15	06/21/18 20:00
460-159001-6	PDI-13-SO-53-06212018	Solid	06/21/18 12:20	06/21/18 20:00
460-159001-7	PDI-113-SO-53-06212018	Solid	06/21/18 12:30	06/21/18 20:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-TB-06202018 — Lab Sample ID: 460-159001-1

No Detections.

Client Sample ID: PDI-FB-06202018 — Lab Sample ID: 460-159001-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.7		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.7		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-12-WG-75-06202018 — Lab Sample ID: 460-159001-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.90	J	1.0	0.54	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.35	J	1.0	0.28	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.43	J	1.0	0.25	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-FB-06212018 — Lab Sample ID: 460-159001-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.5		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	14		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.1		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-13-WG-75-06212018 — Lab Sample ID: 460-159001-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1		5.0	5.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.26	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	8.5		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-13-SO-53-06212018 — Lab Sample ID: 460-159001-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.3	J	4.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Acetone	15		4.1	3.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.1		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.52	J	0.82	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.80	J	0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	27		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.36	J	1.6	0.21	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-113-SO-53-06212018 — Lab Sample ID: 460-159001-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		4.0	3.0	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.1		0.79	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.56	J	0.79	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.90		0.79	0.11	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		0.79	0.11	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.53	J	1.6	0.20	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-TB-06202018

Date Collected: 06/20/18 00:00
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 19:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 19:29	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 19:29	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 19:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 19:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 19:29	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 19:29	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 19:29	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 19:29	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 19:29	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 19:29	1
Acetone	ND		5.0	5.0	ug/L			06/30/18 19:29	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 19:29	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 19:29	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 19:29	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 19:29	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 19:29	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 19:29	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 19:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 19:29	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 19:29	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 19:29	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 19:29	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 19:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 19:29	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 19:29	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 19:29	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 19:29	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 19:29	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 19:29	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 19:29	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 19:29	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 19:29	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 19:29	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 19:29	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 19:29	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 19:29	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 19:29	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 19:29	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 19:29	1

Client Sample ID: PDI-TB-06202018

Date Collected: 06/20/18 00:00
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*06/30/18 19:29*	*1*
4-Bromofluorobenzene	*86*		*77 - 124*		*06/30/18 19:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/30/18 19:29*	*1*
Dibromofluoromethane (Surr)	*88*		*72 - 131*		*06/30/18 19:29*	*1*

Client Sample ID: PDI-FB-06202018

Date Collected: 06/20/18 14:00
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 21:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 21:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 21:11	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 21:11	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 21:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 21:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 21:11	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 21:11	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 21:11	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 21:11	1
2-Butanone (MEK)	**7.7**		5.0	1.9	ug/L			06/30/18 21:11	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 21:11	1
Acetone	**12**		5.0	5.0	ug/L			06/30/18 21:11	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 21:11	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 21:11	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 21:11	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 21:11	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 21:11	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 21:11	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 21:11	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 21:11	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 21:11	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 21:11	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 21:11	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 21:11	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 21:11	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 21:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 21:11	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 21:11	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 21:11	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 21:11	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 21:11	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 21:11	1
Methylene Chloride	**5.7**		1.0	0.32	ug/L			06/30/18 21:11	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 21:11	1

Client Sample ID: PDI-FB-06202018

Lab Sample ID: 460-159001-2

Date Collected: 06/20/18 14:00
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			06/30/18 21:11	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 21:11	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 21:11	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 21:11	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 21:11	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 21:11	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 21:11	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 21:11	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*06/30/18 21:11*	*1*
4-Bromofluorobenzene	*79*		*77 - 124*		*06/30/18 21:11*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*06/30/18 21:11*	*1*
Dibromofluoromethane (Surr)	*85*		*72 - 131*		*06/30/18 21:11*	*1*

Client Sample ID: PDI-12-WG-75-06202018

Lab Sample ID: 460-159001-3

Date Collected: 06/20/18 14:30
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 23:43	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 23:43	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 23:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 23:43	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 23:43	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 23:43	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 23:43	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 23:43	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 23:43	1
Acetone	**15**		5.0	5.0	ug/L			06/30/18 23:43	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 23:43	1
Bromoform	**0.90**	**J**	1.0	0.54	ug/L			06/30/18 23:43	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 23:43	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 23:43	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 23:43	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 23:43	1
Dibromochloromethane	**0.35**	**J**	1.0	0.28	ug/L			06/30/18 23:43	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 23:43	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 23:43	1
cis-1,2-Dichloroethene	ND	* F1	1.0	0.22	ug/L			06/30/18 23:43	1

Client Sample ID: PDI-12-WG-75-06202018

Date Collected: 06/20/18 14:30
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 23:43	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 23:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 23:43	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 23:43	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 23:43	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 23:43	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 23:43	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 23:43	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Tetrachloroethene	**0.43**	**J**	1.0	0.25	ug/L			06/30/18 23:43	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 23:43	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 23:43	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 23:43	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 23:43	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 23:43	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 23:43	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 23:43	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 23:43	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*		*06/30/18 23:43*	*1*
4-Bromofluorobenzene	*83*		*77 - 124*		*06/30/18 23:43*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/30/18 23:43*	*1*
Dibromofluoromethane (Surr)	*88*		*72 - 131*		*06/30/18 23:43*	*1*

Client Sample ID: PDI-FB-06212018

Date Collected: 06/21/18 12:35
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 21:36	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 21:36	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 21:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 21:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 21:36	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 21:36	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 21:36	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 21:36	1
2-Butanone (MEK)	**7.5**		5.0	1.9	ug/L			06/30/18 21:36	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 21:36	1
Acetone	**14**		5.0	5.0	ug/L			06/30/18 21:36	1

Client Sample ID: PDI-FB-06212018

Lab Sample ID: 460-159001-4

Date Collected: 06/21/18 12:35
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			06/30/18 21:36	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 21:36	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 21:36	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 21:36	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 21:36	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 21:36	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 21:36	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 21:36	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 21:36	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 21:36	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 21:36	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 21:36	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 21:36	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 21:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 21:36	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 21:36	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 21:36	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 21:36	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 21:36	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 21:36	1
Methylene Chloride	**5.1**		1.0	0.32	ug/L			06/30/18 21:36	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 21:36	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 21:36	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 21:36	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 21:36	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 21:36	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 21:36	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 21:36	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 21:36	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 21:36	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*		*06/30/18 21:36*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*06/30/18 21:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/30/18 21:36*	*1*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*06/30/18 21:36*	*1*

Client Sample ID: PDI-13-WG-75-06212018

Lab Sample ID: 460-159001-5

Date Collected: 06/21/18 13:15
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/01/18 00:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/01/18 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/01/18 00:08	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/01/18 00:08	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/01/18 00:08	1

Client Sample ID: PDI-13-WG-75-06212018

Date Collected: 06/21/18 13:15
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/01/18 00:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/01/18 00:08	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/01/18 00:08	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/01/18 00:08	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/01/18 00:08	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/01/18 00:08	1
2-Hexanone	ND		5.0	2.9	ug/L			07/01/18 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/01/18 00:08	1
Acetone	**7.1**		5.0	5.0	ug/L			07/01/18 00:08	1
Benzene	ND		1.0	0.43	ug/L			07/01/18 00:08	1
Bromoform	ND		1.0	0.54	ug/L			07/01/18 00:08	1
Bromomethane	ND		1.0	1.0	ug/L			07/01/18 00:08	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/01/18 00:08	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/01/18 00:08	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/01/18 00:08	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/01/18 00:08	1
Chloroethane	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Chloroform	ND		1.0	0.33	ug/L			07/01/18 00:08	1
Chloromethane	ND		1.0	0.14	ug/L			07/01/18 00:08	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			07/01/18 00:08	1
Cyclohexane	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/01/18 00:08	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/01/18 00:08	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/01/18 00:08	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/01/18 00:08	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/01/18 00:08	1
Methyl acetate	ND		5.0	0.31	ug/L			07/01/18 00:08	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/01/18 00:08	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/01/18 00:08	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Tetrachloroethene	**0.26**	**J**	1.0	0.25	ug/L			07/01/18 00:08	1
Toluene	ND		1.0	0.38	ug/L			07/01/18 00:08	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/01/18 00:08	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/01/18 00:08	1
Trichloroethene	**8.5**		1.0	0.31	ug/L			07/01/18 00:08	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/01/18 00:08	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/01/18 00:08	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/01/18 00:08	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/01/18 00:08	1
Styrene	ND		1.0	0.42	ug/L			07/01/18 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*		*07/01/18 00:08*	*1*
4-Bromofluorobenzene	*84*		*77 - 124*		*07/01/18 00:08*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/01/18 00:08*	*1*
Dibromofluoromethane (Surr)	*85*		*72 - 131*		*07/01/18 00:08*	*1*

Client Sample ID: PDI-13-SO-53-06212018

Date Collected: 06/21/18 12:20
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-6

Matrix: Solid
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.82	0.19	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2,2-Tetrachloroethane	ND		0.82	0.17	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2-Trichloroethane	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1-Dichloroethane	ND		0.82	0.17	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1-Dichloroethene	ND		0.82	0.18	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2,4-Trichlorobenzene	ND		0.82	0.075	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dibromo-3-Chloropropane	ND		0.82	0.38	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichlorobenzene	ND		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichloroethane	ND		0.82	0.24	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichloropropane	ND		0.82	0.35	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,3-Dichlorobenzene	ND		0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,4-Dichlorobenzene	ND		0.82	0.082	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
2-Butanone (MEK)	**2.3**	**J**	4.1	0.91	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
2-Hexanone	ND		4.1	0.64	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.54	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Acetone	**15**		4.1	3.1	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Benzene	ND		0.82	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromoform	ND		0.82	0.35	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromomethane	ND		0.82	0.39	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Carbon disulfide	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Carbon tetrachloride	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chlorobenzene	ND		0.82	0.14	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Dibromochloromethane	ND		0.82	0.16	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloroethane	ND		0.82	0.43	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloroform	ND		0.82	0.26	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloromethane	ND		0.82	0.36	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
cis-1,2-Dichloroethene	**1.1**		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Cyclohexane	ND		0.82	0.18	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromodichloromethane	ND		0.82	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Dichlorodifluoromethane	ND		0.82	0.28	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Ethylbenzene	ND		0.82	0.16	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dibromoethane	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Isopropylbenzene	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methyl acetate	ND		4.1	3.5	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methyl tert-butyl ether	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methylcyclohexane	ND		0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methylene Chloride	**0.52**	**J**	0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Tetrachloroethene	**0.80**	**J**	0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Toluene	ND		0.82	0.51	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
trans-1,2-Dichloroethene	ND		0.82	0.20	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
trans-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Trichloroethene	**27**		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Trichlorofluoromethane	ND		0.82	0.33	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Vinyl chloride	ND		0.82	0.45	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Xylenes, Total	**0.36**	**J**	1.6	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
cis-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Styrene	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1

Client Sample ID: PDI-13-SO-53-06212018

Lab Sample ID: 460-159001-6

Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 81.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 135*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
4-Bromofluorobenzene	*88*		*67 - 126*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
Dibromofluoromethane (Surr)	*103*		*61 - 149*	*06/23/18 06:48*	*07/01/18 01:28*	*1*

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7

Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2,2-Tetrachloroethane	ND		0.79	0.17	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.79	0.24	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2-Trichloroethane	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1-Dichloroethane	ND		0.79	0.16	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1-Dichloroethene	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2,4-Trichlorobenzene	ND		0.79	0.073	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dibromo-3-Chloropropane	ND		0.79	0.36	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichlorobenzene	ND		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichloroethane	ND		0.79	0.23	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichloropropane	ND		0.79	0.34	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,3-Dichlorobenzene	ND		0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,4-Dichlorobenzene	ND		0.79	0.079	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
2-Butanone (MEK)	ND		4.0	0.88	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
2-Hexanone	ND		4.0	0.62	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	0.53	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Acetone	**11**		4.0	3.0	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Benzene	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromoform	ND		0.79	0.34	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromomethane	ND		0.79	0.38	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Carbon disulfide	ND		0.79	0.21	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Carbon tetrachloride	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chlorobenzene	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Dibromochloromethane	ND		0.79	0.15	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloroethane	ND		0.79	0.41	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloroform	ND		0.79	0.25	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloromethane	ND		0.79	0.35	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
cis-1,2-Dichloroethene	**1.1**		0.79	0.12	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Cyclohexane	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromodichloromethane	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Dichlorodifluoromethane	ND		0.79	0.27	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Ethylbenzene	ND		0.79	0.16	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dibromoethane	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Isopropylbenzene	ND		0.79	0.10	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methyl acetate	ND		4.0	3.4	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methyl tert-butyl ether	ND		0.79	0.099	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methylcyclohexane	ND		0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methylene Chloride	**0.56**	**J**	0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Tetrachloroethene	**0.90**		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1

Client Sample ID: PDI-113-SO-53-06212018
Date Collected: 06/21/18 12:30
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-7
Matrix: Solid
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.79	0.50	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
trans-1,3-Dichloropropene	ND		0.79	0.21	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Trichloroethene	**29**		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Trichlorofluoromethane	ND		0.79	0.32	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Vinyl chloride	ND		0.79	0.43	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Xylenes, Total	**0.53**	**J**	1.6	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
cis-1,3-Dichloropropene	ND		0.79	0.22	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Styrene	ND		0.79	0.098	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 135*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
4-Bromofluorobenzene	*86*		*67 - 126*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
Dibromofluoromethane (Surr)	*103*		*61 - 149*	*06/23/18 06:49*	*07/01/18 01:03*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159001-6	PDI-13-SO-53-06212018	100	88	100	103
460-159001-7	PDI-113-SO-53-06212018	99	86	100	103
LCS 460-532498/3	Lab Control Sample	92	91	103	98
LCSD 460-532498/4	Lab Control Sample Dup	94	89	103	101
MB 460-532498/13	Method Blank	94	89	105	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159001-1	PDI-TB-06202018	87	86	97	88
460-159001-2	PDI-FB-06202018	87	79	86	85
460-159001-3	PDI-12-WG-75-06202018	83	83	89	88
460-159001-3 MS	PDI-12MS-WG-75-06202018	92	99	97	89
460-159001-3 MSD	PDI-12MSD-WG-75-06202018	83	93	89	83
460-159001-4	PDI-FB-06212018	88	89	97	90
460-159001-5	PDI-13-WG-75-06212018	83	84	91	85
LCS 460-532483/5	Lab Control Sample	80	96	89	82
MB 460-532483/9	Method Blank	85	86	92	87

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-532483/9
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 18:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 18:13	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 18:13	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 18:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 18:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 18:13	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 18:13	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 18:13	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 18:13	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 18:13	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 18:13	1
Acetone	ND		5.0	5.0	ug/L			06/30/18 18:13	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 18:13	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 18:13	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 18:13	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 18:13	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 18:13	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 18:13	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 18:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 18:13	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 18:13	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			06/30/18 18:13	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 18:13	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 18:13	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 18:13	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 18:13	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 18:13	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 18:13	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 18:13	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 18:13	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 18:13	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 18:13	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 18:13	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 18:13	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 18:13	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 18:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 18:13	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 18:13	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 18:13	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 18:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 132*		*06/30/18 18:13*	*1*
4-Bromofluorobenzene	*86*		*77 - 124*		*06/30/18 18:13*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/30/18 18:13*	*1*
Dibromofluoromethane (Surr)	*87*		*72 - 131*		*06/30/18 18:13*	*1*

Lab Sample ID: LCS 460-532483/5
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	15.6		ug/L		78	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.4		ug/L		87	59 - 150
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	78 - 120
1,1-Dichloroethane	20.0	17.2		ug/L		86	77 - 123
1,1-Dichloroethene	20.0	16.2		ug/L		81	74 - 123
1,2,4-Trichlorobenzene	20.0	21.1		ug/L		105	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		88	55 - 134
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	16.1		ug/L		80	76 - 121
1,2-Dichloropropane	20.0	17.6		ug/L		88	77 - 123
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120
2-Butanone (MEK)	100	89.5		ug/L		90	64 - 120
2-Hexanone	100	93.3		ug/L		93	71 - 125
4-Methyl-2-pentanone (MIBK)	100	94.5		ug/L		95	78 - 124
Acetone	100	86.5		ug/L		86	39 - 150
Benzene	20.0	18.9		ug/L		94	77 - 121
Bromoform	20.0	16.4		ug/L		82	53 - 120
Bromomethane	20.0	9.45		ug/L		47	10 - 150
Carbon disulfide	20.0	15.0		ug/L		75	69 - 133
Carbon tetrachloride	20.0	15.7		ug/L		79	70 - 132
Chlorobenzene	20.0	19.7		ug/L		99	80 - 120
Dibromochloromethane	20.0	17.6		ug/L		88	73 - 120
Chloroethane	20.0	15.9		ug/L		80	52 - 150
Chloroform	20.0	16.5		ug/L		82	80 - 120
Chloromethane	20.0	14.0		ug/L		70	56 - 131
cis-1,2-Dichloroethene	20.0	15.7	*	ug/L		78	80 - 120
Cyclohexane	20.0	16.1		ug/L		80	56 - 150
Bromodichloromethane	20.0	15.8		ug/L		79	76 - 120
Dichlorodifluoromethane	20.0	17.7		ug/L		89	50 - 131
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	18.7		ug/L		94	80 - 120
Isopropylbenzene	20.0	18.6		ug/L		93	80 - 123
Methyl acetate	40.0	33.1		ug/L		83	66 - 144
Methyl tert-butyl ether	20.0	16.6		ug/L		83	79 - 122
Methylcyclohexane	20.0	16.3		ug/L		82	61 - 145
Methylene Chloride	20.0	16.5		ug/L		82	77 - 123
Tetrachloroethene	20.0	20.3		ug/L		102	78 - 122
Toluene	20.0	18.3		ug/L		91	80 - 120
trans-1,2-Dichloroethene	20.0	16.0		ug/L		80	79 - 120
trans-1,3-Dichloropropene	20.0	17.4		ug/L		87	76 - 120
Trichloroethene	20.0	17.5		ug/L		88	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532483/5
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	18.5		ug/L		93	71 - 143
Vinyl chloride	20.0	17.6		ug/L		88	62 - 138
cis-1,3-Dichloropropene	20.0	17.5		ug/L		88	77 - 120
Styrene	20.0	18.3		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*74 - 132*
4-Bromofluorobenzene	*96*		*77 - 124*
Toluene-d8 (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*82*		*72 - 131*

Lab Sample ID: 460-159001-3 MS
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MS-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		20.0	16.5		ug/L		82	75 - 125
1,1,2,2-Tetrachloroethane	ND		20.0	18.9		ug/L		95	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	18.4		ug/L		92	59 - 150
1,1,2-Trichloroethane	ND		20.0	19.7		ug/L		99	78 - 120
1,1-Dichloroethane	ND		20.0	19.1		ug/L		96	77 - 123
1,1-Dichloroethene	ND		20.0	17.0		ug/L		85	74 - 123
1,2,4-Trichlorobenzene	ND		20.0	19.2		ug/L		96	80 - 124
1,2-Dibromo-3-Chloropropane	ND		20.0	16.3		ug/L		82	55 - 134
1,2-Dichlorobenzene	ND		20.0	19.4		ug/L		97	80 - 120
1,2-Dichloroethane	ND		20.0	17.3		ug/L		87	76 - 121
1,2-Dichloropropane	ND		20.0	17.6		ug/L		88	77 - 123
1,3-Dichlorobenzene	ND		20.0	18.9		ug/L		94	80 - 120
1,4-Dichlorobenzene	ND		20.0	18.5		ug/L		93	80 - 120
2-Butanone (MEK)	ND		100	84.0		ug/L		84	64 - 120
2-Hexanone	ND		100	101		ug/L		101	71 - 125
4-Methyl-2-pentanone (MIBK)	ND		100	96.6		ug/L		97	78 - 124
Acetone	15		100	106		ug/L		91	39 - 150
Benzene	ND		20.0	19.8		ug/L		99	77 - 121
Bromoform	0.90	J	20.0	18.4		ug/L		88	53 - 120
Bromomethane	ND		20.0	7.76		ug/L		39	10 - 150
Carbon disulfide	ND		20.0	16.0		ug/L		80	69 - 133
Carbon tetrachloride	ND		20.0	15.9		ug/L		80	70 - 132
Chlorobenzene	ND		20.0	19.9		ug/L		99	80 - 120
Dibromochloromethane	0.35	J	20.0	17.8		ug/L		87	73 - 120
Chloroethane	ND		20.0	19.8		ug/L		99	52 - 150
Chloroform	ND		20.0	17.4		ug/L		87	80 - 120
Chloromethane	ND		20.0	15.3		ug/L		76	56 - 131
cis-1,2-Dichloroethene	ND	* F1	20.0	15.6	F1	ug/L		78	80 - 120
Cyclohexane	ND		20.0	17.0		ug/L		85	56 - 150
Bromodichloromethane	ND		20.0	17.0		ug/L		85	76 - 120
Dichlorodifluoromethane	ND		20.0	18.2		ug/L		91	50 - 131

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-159001-3 MS
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MS-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		20.0	19.6		ug/L		98	80 - 120
1,2-Dibromoethane	ND		20.0	19.3		ug/L		96	80 - 120
Isopropylbenzene	ND		20.0	19.8		ug/L		99	80 - 123
Methyl acetate	ND		40.0	36.6		ug/L		91	66 - 144
Methyl tert-butyl ether	ND		20.0	17.2		ug/L		86	79 - 122
Methylcyclohexane	ND		20.0	16.7		ug/L		83	61 - 145
Methylene Chloride	ND		20.0	18.4		ug/L		92	77 - 123
Tetrachloroethene	0.43	J	20.0	19.9		ug/L		97	78 - 122
Toluene	ND		20.0	18.9		ug/L		95	80 - 120
trans-1,2-Dichloroethene	ND		20.0	17.1		ug/L		86	79 - 120
trans-1,3-Dichloropropene	ND		20.0	18.0		ug/L		90	76 - 120
Trichloroethene	ND		20.0	17.6		ug/L		88	77 - 120
Trichlorofluoromethane	ND		20.0	20.6		ug/L		103	71 - 143
Vinyl chloride	ND		20.0	18.5		ug/L		93	62 - 138
cis-1,3-Dichloropropene	ND		20.0	16.8		ug/L		84	77 - 120
Styrene	ND		20.0	18.3		ug/L		92	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*89*		*72 - 131*

Lab Sample ID: 460-159001-3 MSD
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MSD-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	16.5		ug/L		83	75 - 125	0	30
1,1,2,2-Tetrachloroethane	ND		20.0	18.8		ug/L		94	74 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	19.4		ug/L		97	59 - 150	5	30
1,1,2-Trichloroethane	ND		20.0	19.6		ug/L		98	78 - 120	0	30
1,1-Dichloroethane	ND		20.0	19.5		ug/L		98	77 - 123	2	30
1,1-Dichloroethene	ND		20.0	18.0		ug/L		90	74 - 123	5	30
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/L		99	80 - 124	3	30
1,2-Dibromo-3-Chloropropane	ND		20.0	16.3		ug/L		82	55 - 134	0	30
1,2-Dichlorobenzene	ND		20.0	20.3		ug/L		101	80 - 120	4	30
1,2-Dichloroethane	ND		20.0	17.2		ug/L		86	76 - 121	0	30
1,2-Dichloropropane	ND		20.0	18.2		ug/L		91	77 - 123	3	30
1,3-Dichlorobenzene	ND		20.0	19.4		ug/L		97	80 - 120	3	30
1,4-Dichlorobenzene	ND		20.0	18.9		ug/L		95	80 - 120	2	30
2-Butanone (MEK)	ND		100	81.7		ug/L		82	64 - 120	3	30
2-Hexanone	ND		100	99.1		ug/L		99	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)	ND		100	88.7		ug/L		89	78 - 124	8	30
Acetone	15		100	100		ug/L		85	39 - 150	6	30
Benzene	ND		20.0	19.8		ug/L		99	77 - 121	0	30
Bromoform	0.90	J	20.0	16.8		ug/L		79	53 - 120	9	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-159001-3 MSD
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MSD-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		20.0	10.1		ug/L		51	10 - 150	26	30
Carbon disulfide	ND		20.0	16.6		ug/L		83	69 - 133	4	30
Carbon tetrachloride	ND		20.0	15.7		ug/L		79	70 - 132	1	30
Chlorobenzene	ND		20.0	20.0		ug/L		100	80 - 120	1	30
Dibromochloromethane	0.35	J	20.0	18.0		ug/L		88	73 - 120	2	30
Chloroethane	ND		20.0	20.7		ug/L		103	52 - 150	4	30
Chloroform	ND		20.0	16.8		ug/L		84	80 - 120	4	30
Chloromethane	ND		20.0	16.2		ug/L		81	56 - 131	6	30
cis-1,2-Dichloroethene	ND	* F1	20.0	15.8	F1	ug/L		79	80 - 120	2	30
Cyclohexane	ND		20.0	17.4		ug/L		87	56 - 150	2	30
Bromodichloromethane	ND		20.0	17.0		ug/L		85	76 - 120	0	30
Dichlorodifluoromethane	ND		20.0	19.2		ug/L		96	50 - 131	6	30
Ethylbenzene	ND		20.0	19.9		ug/L		99	80 - 120	1	30
1,2-Dibromoethane	ND		20.0	18.9		ug/L		94	80 - 120	2	30
Isopropylbenzene	ND		20.0	19.1		ug/L		95	80 - 123	4	30
Methyl acetate	ND		40.0	35.1		ug/L		88	66 - 144	4	30
Methyl tert-butyl ether	ND		20.0	17.6		ug/L		88	79 - 122	2	30
Methylcyclohexane	ND		20.0	17.0		ug/L		85	61 - 145	2	30
Methylene Chloride	ND		20.0	17.5		ug/L		87	77 - 123	5	30
Tetrachloroethene	0.43	J	20.0	21.7		ug/L		106	78 - 122	8	30
Toluene	ND		20.0	18.6		ug/L		93	80 - 120	2	30
trans-1,2-Dichloroethene	ND		20.0	17.3		ug/L		87	79 - 120	1	30
trans-1,3-Dichloropropene	ND		20.0	17.5		ug/L		87	76 - 120	3	30
Trichloroethene	ND		20.0	17.8		ug/L		89	77 - 120	1	30
Trichlorofluoromethane	ND		20.0	21.1		ug/L		105	71 - 143	2	30
Vinyl chloride	ND		20.0	19.8		ug/L		99	62 - 138	7	30
cis-1,3-Dichloropropene	ND		20.0	16.3		ug/L		81	77 - 120	3	30
Styrene	ND		20.0	18.4		ug/L		92	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*83*		*72 - 131*

Lab Sample ID: MB 460-532498/13
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			06/30/18 22:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			06/30/18 22:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			06/30/18 22:07	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			06/30/18 22:07	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			06/30/18 22:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			06/30/18 22:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			06/30/18 22:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-532498/13
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			06/30/18 22:07	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			06/30/18 22:07	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			06/30/18 22:07	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			06/30/18 22:07	1
2-Hexanone	ND		5.0	0.78	ug/Kg			06/30/18 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			06/30/18 22:07	1
Acetone	ND		5.0	3.8	ug/Kg			06/30/18 22:07	1
Benzene	ND		1.0	0.26	ug/Kg			06/30/18 22:07	1
Bromoform	ND		1.0	0.43	ug/Kg			06/30/18 22:07	1
Bromomethane	ND		1.0	0.47	ug/Kg			06/30/18 22:07	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			06/30/18 22:07	1
Chloroethane	ND		1.0	0.52	ug/Kg			06/30/18 22:07	1
Chloroform	ND		1.0	0.32	ug/Kg			06/30/18 22:07	1
Chloromethane	ND		1.0	0.44	ug/Kg			06/30/18 22:07	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			06/30/18 22:07	1
Cyclohexane	ND		1.0	0.22	ug/Kg			06/30/18 22:07	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			06/30/18 22:07	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			06/30/18 22:07	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			06/30/18 22:07	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			06/30/18 22:07	1
Methyl acetate	ND		5.0	4.3	ug/Kg			06/30/18 22:07	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			06/30/18 22:07	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
Toluene	ND		1.0	0.63	ug/Kg			06/30/18 22:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			06/30/18 22:07	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Trichloroethene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			06/30/18 22:07	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			06/30/18 22:07	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			06/30/18 22:07	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Styrene	ND		1.0	0.12	ug/Kg			06/30/18 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*		*06/30/18 22:07*	*1*
4-Bromofluorobenzene	*89*		*67 - 126*		*06/30/18 22:07*	*1*
Toluene-d8 (Surr)	*105*		*73 - 121*		*06/30/18 22:07*	*1*
Dibromofluoromethane (Surr)	*102*		*61 - 149*		*06/30/18 22:07*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532498/3
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/Kg		100	80 - 125
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/Kg		98	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.8		ug/Kg		124	78 - 132
1,1,2-Trichloroethane	20.0	19.3		ug/Kg		96	76 - 124
1,1-Dichloroethane	20.0	19.3		ug/Kg		96	80 - 124
1,1-Dichloroethene	20.0	21.9		ug/Kg		110	79 - 132
1,2,4-Trichlorobenzene	20.0	20.6		ug/Kg		103	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/Kg		95	65 - 129
1,2-Dichlorobenzene	20.0	20.0		ug/Kg		100	80 - 121
1,2-Dichloroethane	20.0	16.9		ug/Kg		85	68 - 120
1,2-Dichloropropane	20.0	18.3		ug/Kg		92	77 - 124
1,3-Dichlorobenzene	20.0	20.2		ug/Kg		101	79 - 124
1,4-Dichlorobenzene	20.0	20.2		ug/Kg		101	79 - 121
2-Butanone (MEK)	100	94.9		ug/Kg		95	61 - 140
2-Hexanone	100	96.9		ug/Kg		97	78 - 120
4-Methyl-2-pentanone (MIBK)	100	99.8		ug/Kg		100	80 - 120
Acetone	100	99.2		ug/Kg		99	75 - 120
Benzene	20.0	19.6		ug/Kg		98	75 - 127
Bromoform	20.0	17.8		ug/Kg		89	19 - 150
Bromomethane	20.0	23.6		ug/Kg		118	59 - 136
Carbon disulfide	20.0	21.0		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	19.7		ug/Kg		99	77 - 138
Chlorobenzene	20.0	19.6		ug/Kg		98	80 - 120
Dibromochloromethane	20.0	18.5		ug/Kg		93	67 - 143
Chloroethane	20.0	23.1		ug/Kg		116	50 - 139
Chloroform	20.0	18.6		ug/Kg		93	80 - 122
Chloromethane	20.0	19.2		ug/Kg		96	66 - 128
cis-1,2-Dichloroethene	20.0	18.3		ug/Kg		91	80 - 123
Cyclohexane	20.0	22.9		ug/Kg		115	67 - 135
Bromodichloromethane	20.0	17.7		ug/Kg		89	76 - 129
Dichlorodifluoromethane	20.0	22.5		ug/Kg		113	72 - 127
Ethylbenzene	20.0	20.4		ug/Kg		102	79 - 124
1,2-Dibromoethane	20.0	19.4		ug/Kg		97	80 - 122
Isopropylbenzene	20.0	20.9		ug/Kg		105	80 - 125
Methyl acetate	40.0	33.3		ug/Kg		83	73 - 123
Methyl tert-butyl ether	20.0	20.1		ug/Kg		101	80 - 120
Methylcyclohexane	20.0	22.2		ug/Kg		111	71 - 137
Methylene Chloride	20.0	19.8		ug/Kg		99	79 - 128
Tetrachloroethene	20.0	20.0		ug/Kg		100	73 - 130
Toluene	20.0	19.5		ug/Kg		97	75 - 122
trans-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	80 - 129
trans-1,3-Dichloropropene	20.0	19.0		ug/Kg		95	72 - 121
Trichloroethene	20.0	18.6		ug/Kg		93	79 - 122
Trichlorofluoromethane	20.0	22.3		ug/Kg		112	68 - 136
Vinyl chloride	20.0	22.9		ug/Kg		115	70 - 134
cis-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	75 - 124
Styrene	20.0	19.7		ug/Kg		98	78 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532498/3
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 135*
4-Bromofluorobenzene	*91*		*67 - 126*
Toluene-d8 (Surr)	*103*		*73 - 121*
Dibromofluoromethane (Surr)	*98*		*61 - 149*

Lab Sample ID: LCSD 460-532498/4
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	20.3		ug/Kg		101	80 - 125	1	30
1,1,2,2-Tetrachloroethane			20.0	19.6		ug/Kg		98	72 - 131	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	24.3		ug/Kg		121	78 - 132	2	30
1,1,2-Trichloroethane			20.0	19.3		ug/Kg		97	76 - 124	0	30
1,1-Dichloroethane			20.0	19.4		ug/Kg		97	80 - 124	1	30
1,1-Dichloroethene			20.0	21.2		ug/Kg		106	79 - 132	4	30
1,2,4-Trichlorobenzene			20.0	20.6		ug/Kg		103	74 - 124	0	30
1,2-Dibromo-3-Chloropropane			20.0	19.0		ug/Kg		95	65 - 129	0	30
1,2-Dichlorobenzene			20.0	20.1		ug/Kg		101	80 - 121	1	30
1,2-Dichloroethane			20.0	16.9		ug/Kg		85	68 - 120	0	30
1,2-Dichloropropane			20.0	18.3		ug/Kg		92	77 - 124	0	30
1,3-Dichlorobenzene			20.0	20.2		ug/Kg		101	79 - 124	0	30
1,4-Dichlorobenzene			20.0	20.4		ug/Kg		102	79 - 121	1	30
2-Butanone (MEK)			100	97.1		ug/Kg		97	61 - 140	2	30
2-Hexanone			100	96.4		ug/Kg		96	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/Kg		103	80 - 120	3	30
Acetone			100	99.3		ug/Kg		99	75 - 120	0	30
Benzene			20.0	20.0		ug/Kg		100	75 - 127	2	30
Bromoform			20.0	17.7		ug/Kg		89	19 - 150	0	30
Bromomethane			20.0	23.2		ug/Kg		116	59 - 136	2	30
Carbon disulfide			20.0	20.3		ug/Kg		102	74 - 130	3	30
Carbon tetrachloride			20.0	20.1		ug/Kg		100	77 - 138	2	30
Chlorobenzene			20.0	19.5		ug/Kg		97	80 - 120	1	30
Dibromochloromethane			20.0	18.6		ug/Kg		93	67 - 143	0	30
Chloroethane			20.0	22.9		ug/Kg		114	50 - 139	1	30
Chloroform			20.0	18.7		ug/Kg		93	80 - 122	0	30
Chloromethane			20.0	18.3		ug/Kg		91	66 - 128	5	30
cis-1,2-Dichloroethene			20.0	18.5		ug/Kg		93	80 - 123	1	30
Cyclohexane			20.0	22.4		ug/Kg		112	67 - 135	2	30
Bromodichloromethane			20.0	17.7		ug/Kg		89	76 - 129	0	30
Dichlorodifluoromethane			20.0	21.9		ug/Kg		109	72 - 127	3	30
Ethylbenzene			20.0	20.2		ug/Kg		101	79 - 124	1	30
1,2-Dibromoethane			20.0	19.1		ug/Kg		96	80 - 122	1	30
Isopropylbenzene			20.0	21.0		ug/Kg		105	80 - 125	0	30
Methyl acetate			40.0	32.1		ug/Kg		80	73 - 123	4	30
Methyl tert-butyl ether			20.0	19.9		ug/Kg		100	80 - 120	1	30
Methylcyclohexane			20.0	21.5		ug/Kg		108	71 - 137	3	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-532498/4
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			20.0	19.6		ug/Kg		98	79 - 128	1	30
Tetrachloroethene			20.0	19.9		ug/Kg		100	73 - 130	1	30
Toluene			20.0	19.5		ug/Kg		97	75 - 122	0	30
trans-1,2-Dichloroethene			20.0	19.9		ug/Kg		100	80 - 129	2	30
trans-1,3-Dichloropropene			20.0	19.0		ug/Kg		95	72 - 121	0	30
Trichloroethene			20.0	18.2		ug/Kg		91	79 - 122	2	30
Trichlorofluoromethane			20.0	21.7		ug/Kg		109	68 - 136	3	30
Vinyl chloride			20.0	20.8		ug/Kg		104	70 - 134	10	30
cis-1,3-Dichloropropene			20.0	19.4		ug/Kg		97	75 - 124	0	30
Styrene			20.0	19.9		ug/Kg		99	78 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*
4-Bromofluorobenzene	*89*		*67 - 126*
Toluene-d8 (Surr)	*103*		*73 - 121*
Dibromofluoromethane (Surr)	*101*		*61 - 149*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

GC/MS VOA

Prep Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	5035	
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	5035	

Analysis Batch: 532483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-1	PDI-TB-06202018	Total/NA	Water	8260C	
460-159001-2	PDI-FB-06202018	Total/NA	Water	8260C	
460-159001-3	PDI-12-WG-75-06202018	Total/NA	Water	8260C	
460-159001-4	PDI-FB-06212018	Total/NA	Water	8260C	
460-159001-5	PDI-13-WG-75-06212018	Total/NA	Water	8260C	
MB 460-532483/9	Method Blank	Total/NA	Water	8260C	
LCS 460-532483/5	Lab Control Sample	Total/NA	Water	8260C	
460-159001-3 MS	PDI-12MS-WG-75-06202018	Total/NA	Water	8260C	
460-159001-3 MSD	PDI-12MSD-WG-75-06202018	Total/NA	Water	8260C	

Analysis Batch: 532498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	8260C	530346
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	8260C	530346
MB 460-532498/13	Method Blank	Total/NA	Solid	8260C	
LCS 460-532498/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-532498/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Analysis Batch: 532088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	Moisture	
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-TB-06202018
Lab Sample ID: 460-159001-1
Date Collected: 06/20/18 00:00
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 19:29	DAS	TAL EDI

Client Sample ID: PDI-FB-06202018
Lab Sample ID: 460-159001-2
Date Collected: 06/20/18 14:00
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 21:11	DAS	TAL EDI

Client Sample ID: PDI-12-WG-75-06202018
Lab Sample ID: 460-159001-3
Date Collected: 06/20/18 14:30
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 23:43	DAS	TAL EDI

Client Sample ID: PDI-FB-06212018
Lab Sample ID: 460-159001-4
Date Collected: 06/21/18 12:35
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 21:36	DAS	TAL EDI

Client Sample ID: PDI-13-WG-75-06212018
Lab Sample ID: 460-159001-5
Date Collected: 06/21/18 13:15
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	07/01/18 00:08	DAS	TAL EDI

Client Sample ID: PDI-13-SO-53-06212018
Lab Sample ID: 460-159001-6
Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	532088	06/29/18 07:41	BJP	TAL EDI

Client Sample ID: PDI-13-SO-53-06212018

Lab Sample ID: 460-159001-6
Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:48	DBM	TAL EDI
Total/NA	Analysis	8260C		1	532498	07/01/18 01:28	AAT	TAL EDI

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7
Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	532088	06/29/18 07:41	BJP	TAL EDI

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7
Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:49	DBM	TAL EDI
Total/NA	Analysis	8260C		1	532498	07/01/18 01:03	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159001-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-13-SO-53-06212018	460-159001-6	103	100	100	88
PDI-113-SO-53-06212018	460-159001-7	103	99	100	86
	MB 460-532498/13	102	94	105	89
	LCS 460-532498/3	98	92	103	91
	LCSD 460-532498/4	101	94	103	89

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06202018	460-159001-1	88	87	97	86
PDI-FB-06202018	460-159001-2	85	87	86	79
PDI-12-WG-75-06202018	460-159001-3	88	83	89	83
PDI-FB-06212018	460-159001-4	90	88	97	89
PDI-13-WG-75-06212018	460-159001-5	85	83	91	84
	MB 460-532483/9	87	85	92	86
	LCS 460-532483/5	82	80	89	96
PDI-12MS-WG-75-06202018 MS	460-159001-3 MS	89	92	97	99
PDI-12MSD-WG-75-06202018 MSD	460-159001-3 MSD	83	83	89	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47477.D

Lab ID: LCS 460-532483/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	15.6	78	75-125	
1,1,2,2-Tetrachloroethane	20.0	17.6	88	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.4	87	59-150	
1,1,2-Trichloroethane	20.0	19.4	97	78-120	
1,1-Dichloroethane	20.0	17.2	86	77-123	
1,1-Dichloroethene	20.0	16.2	81	74-123	
1,2,4-Trichlorobenzene	20.0	21.1	105	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.5	88	55-134	
1,2-Dichlorobenzene	20.0	20.1	101	80-120	
1,2-Dichloroethane	20.0	16.1	80	76-121	
1,2-Dichloropropane	20.0	17.6	88	77-123	
1,3-Dichlorobenzene	20.0	19.1	96	80-120	
1,4-Dichlorobenzene	20.0	18.3	92	80-120	
2-Butanone (MEK)	100	89.5	90	64-120	
2-Hexanone	100	93.3	93	71-125	
4-Methyl-2-pentanone (MIBK)	100	94.5	95	78-124	
Acetone	100	86.5	86	39-150	
Benzene	20.0	18.9	94	77-121	
Bromoform	20.0	16.4	82	53-120	
Bromomethane	20.0	9.45	47	10-150	
Carbon disulfide	20.0	15.0	75	69-133	
Carbon tetrachloride	20.0	15.7	79	70-132	
Chlorobenzene	20.0	19.7	99	80-120	
Dibromochloromethane	20.0	17.6	88	73-120	
Chloroethane	20.0	15.9	80	52-150	
Chloroform	20.0	16.5	82	80-120	
Chloromethane	20.0	14.0	70	56-131	
cis-1,2-Dichloroethene	20.0	15.7	78	80-120	*
Cyclohexane	20.0	16.1	80	56-150	
Bromodichloromethane	20.0	15.8	79	76-120	
Dichlorodifluoromethane	20.0	17.7	89	50-131	
Ethylbenzene	20.0	19.2	96	80-120	
1,2-Dibromoethane	20.0	18.7	94	80-120	
Isopropylbenzene	20.0	18.6	93	80-123	
Methyl acetate	40.0	33.1	83	66-144	
Methyl tert-butyl ether	20.0	16.6	83	79-122	
Methylcyclohexane	20.0	16.3	82	61-145	
Methylene Chloride	20.0	16.5	82	77-123	
Tetrachloroethene	20.0	20.3	102	78-122	
Toluene	20.0	18.3	91	80-120	
trans-1,2-Dichloroethene	20.0	16.0	80	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47477.D

Lab ID: LCS 460-532483/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.4	87	76-120	
Trichloroethene	20.0	17.5	88	77-120	
Trichlorofluoromethane	20.0	18.5	93	71-143	
Vinyl chloride	20.0	17.6	88	62-138	
cis-1,3-Dichloropropene	20.0	17.5	88	77-120	
Styrene	20.0	18.3	92	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: D52028.D

Lab ID: LCS 460-532498/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.1	100	80-125	
1,1,2,2-Tetrachloroethane	20.0	19.5	98	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.8	124	78-132	
1,1,2-Trichloroethane	20.0	19.3	96	76-124	
1,1-Dichloroethane	20.0	19.3	96	80-124	
1,1-Dichloroethene	20.0	21.9	110	79-132	
1,2,4-Trichlorobenzene	20.0	20.6	103	74-124	
1,2-Dibromo-3-Chloropropane	20.0	19.0	95	65-129	
1,2-Dichlorobenzene	20.0	20.0	100	80-121	
1,2-Dichloroethane	20.0	16.9	85	68-120	
1,2-Dichloropropane	20.0	18.3	92	77-124	
1,3-Dichlorobenzene	20.0	20.2	101	79-124	
1,4-Dichlorobenzene	20.0	20.2	101	79-121	
2-Butanone (MEK)	100	94.9	95	61-140	
2-Hexanone	100	96.9	97	78-120	
4-Methyl-2-pentanone (MIBK)	100	99.8	100	80-120	
Acetone	100	99.2	99	75-120	
Benzene	20.0	19.6	98	75-127	
Bromoform	20.0	17.8	89	19-150	
Bromomethane	20.0	23.6	118	59-136	
Carbon disulfide	20.0	21.0	105	74-130	
Carbon tetrachloride	20.0	19.7	99	77-138	
Chlorobenzene	20.0	19.6	98	80-120	
Dibromochloromethane	20.0	18.5	93	67-143	
Chloroethane	20.0	23.1	116	50-139	
Chloroform	20.0	18.6	93	80-122	
Chloromethane	20.0	19.2	96	66-128	
cis-1,2-Dichloroethene	20.0	18.3	91	80-123	
Cyclohexane	20.0	22.9	115	67-135	
Bromodichloromethane	20.0	17.7	89	76-129	
Dichlorodifluoromethane	20.0	22.5	113	72-127	
Ethylbenzene	20.0	20.4	102	79-124	
1,2-Dibromoethane	20.0	19.4	97	80-122	
Isopropylbenzene	20.0	20.9	105	80-125	
Methyl acetate	40.0	33.3	83	73-123	
Methyl tert-butyl ether	20.0	20.1	101	80-120	
Methylcyclohexane	20.0	22.2	111	71-137	
Methylene Chloride	20.0	19.8	99	79-128	
Tetrachloroethene	20.0	20.0	100	73-130	
Toluene	20.0	19.5	97	75-122	
trans-1,2-Dichloroethene	20.0	20.3	102	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: D52028.D

Lab ID: LCS 460-532498/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.0	95	72-121	
Trichloroethene	20.0	18.6	93	79-122	
Trichlorofluoromethane	20.0	22.3	112	68-136	
Vinyl chloride	20.0	22.9	115	70-134	
cis-1,3-Dichloropropene	20.0	19.4	97	75-124	
Styrene	20.0	19.7	98	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: D52029.D

Lab ID: LCSD 460-532498/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.3	101	1	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	19.6	98	0	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.3	121	2	30	78-132	
1,1,2-Trichloroethane	20.0	19.3	97	0	30	76-124	
1,1-Dichloroethane	20.0	19.4	97	1	30	80-124	
1,1-Dichloroethene	20.0	21.2	106	4	30	79-132	
1,2,4-Trichlorobenzene	20.0	20.6	103	0	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	19.0	95	0	30	65-129	
1,2-Dichlorobenzene	20.0	20.1	101	1	30	80-121	
1,2-Dichloroethane	20.0	16.9	85	0	30	68-120	
1,2-Dichloropropane	20.0	18.3	92	0	30	77-124	
1,3-Dichlorobenzene	20.0	20.2	101	0	30	79-124	
1,4-Dichlorobenzene	20.0	20.4	102	1	30	79-121	
2-Butanone (MEK)	100	97.1	97	2	30	61-140	
2-Hexanone	100	96.4	96	1	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	103	103	3	30	80-120	
Acetone	100	99.3	99	0	30	75-120	
Benzene	20.0	20.0	100	2	30	75-127	
Bromoform	20.0	17.7	89	0	30	19-150	
Bromomethane	20.0	23.2	116	2	30	59-136	
Carbon disulfide	20.0	20.3	102	3	30	74-130	
Carbon tetrachloride	20.0	20.1	100	2	30	77-138	
Chlorobenzene	20.0	19.5	97	1	30	80-120	
Dibromochloromethane	20.0	18.6	93	0	30	67-143	
Chloroethane	20.0	22.9	114	1	30	50-139	
Chloroform	20.0	18.7	93	0	30	80-122	
Chloromethane	20.0	18.3	91	5	30	66-128	
cis-1,2-Dichloroethene	20.0	18.5	93	1	30	80-123	
Cyclohexane	20.0	22.4	112	2	30	67-135	
Bromodichloromethane	20.0	17.7	89	0	30	76-129	
Dichlorodifluoromethane	20.0	21.9	109	3	30	72-127	
Ethylbenzene	20.0	20.2	101	1	30	79-124	
1,2-Dibromoethane	20.0	19.1	96	1	30	80-122	
Isopropylbenzene	20.0	21.0	105	0	30	80-125	
Methyl acetate	40.0	32.1	80	4	30	73-123	
Methyl tert-butyl ether	20.0	19.9	100	1	30	80-120	
Methylcyclohexane	20.0	21.5	108	3	30	71-137	
Methylene Chloride	20.0	19.6	98	1	30	79-128	
Tetrachloroethene	20.0	19.9	100	1	30	73-130	
Toluene	20.0	19.5	97	0	30	75-122	
trans-1,2-Dichloroethene	20.0	19.9	100	2	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: D52029.D

Lab ID: LCSD 460-532498/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.0	95	0	30	72-121	
Trichloroethene	20.0	18.2	91	2	30	79-122	
Trichlorofluoromethane	20.0	21.7	109	3	30	68-136	
Vinyl chloride	20.0	20.8	104	10	30	70-134	
cis-1,3-Dichloropropene	20.0	19.4	97	0	30	75-124	
Styrene	20.0	19.9	99	1	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47490.D

Lab ID: 460-159001-3 MS Client ID: PDI-12MS-WG-75-06202018 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	ND	16.5	82	75-125	
1,1,2,2-Tetrachloroethane	20.0	ND	18.9	95	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	ND	18.4	92	59-150	
1,1,2-Trichloroethane	20.0	ND	19.7	99	78-120	
1,1-Dichloroethane	20.0	ND	19.1	96	77-123	
1,1-Dichloroethene	20.0	ND	17.0	85	74-123	
1,2,4-Trichlorobenzene	20.0	ND	19.2	96	80-124	
1,2-Dibromo-3-Chloropropane	20.0	ND	16.3	82	55-134	
1,2-Dichlorobenzene	20.0	ND	19.4	97	80-120	
1,2-Dichloroethane	20.0	ND	17.3	87	76-121	
1,2-Dichloropropane	20.0	ND	17.6	88	77-123	
1,3-Dichlorobenzene	20.0	ND	18.9	94	80-120	
1,4-Dichlorobenzene	20.0	ND	18.5	93	80-120	
2-Butanone (MEK)	100	ND	84.0	84	64-120	
2-Hexanone	100	ND	101	101	71-125	
4-Methyl-2-pentanone (MIBK)	100	ND	96.6	97	78-124	
Acetone	100	15	106	91	39-150	
Benzene	20.0	ND	19.8	99	77-121	
Bromoform	20.0	0.90 J	18.4	88	53-120	
Bromomethane	20.0	ND	7.76	39	10-150	
Carbon disulfide	20.0	ND	16.0	80	69-133	
Carbon tetrachloride	20.0	ND	15.9	80	70-132	
Chlorobenzene	20.0	ND	19.9	99	80-120	
Dibromochloromethane	20.0	0.35 J	17.8	87	73-120	
Chloroethane	20.0	ND	19.8	99	52-150	
Chloroform	20.0	ND	17.4	87	80-120	
Chloromethane	20.0	ND	15.3	76	56-131	
cis-1,2-Dichloroethene	20.0	ND	15.6	78	80-120	F1
Cyclohexane	20.0	ND	17.0	85	56-150	
Bromodichloromethane	20.0	ND	17.0	85	76-120	
Dichlorodifluoromethane	20.0	ND	18.2	91	50-131	
Ethylbenzene	20.0	ND	19.6	98	80-120	
1,2-Dibromoethane	20.0	ND	19.3	96	80-120	
Isopropylbenzene	20.0	ND	19.8	99	80-123	
Methyl acetate	40.0	ND	36.6	91	66-144	
Methyl tert-butyl ether	20.0	ND	17.2	86	79-122	
Methylcyclohexane	20.0	ND	16.7	83	61-145	
Methylene Chloride	20.0	ND	18.4	92	77-123	
Tetrachloroethene	20.0	0.43 J	19.9	97	78-122	
Toluene	20.0	ND	18.9	95	80-120	
trans-1,2-Dichloroethene	20.0	ND	17.1	86	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47490.D

Lab ID: 460-159001-3 MS Client ID: PDI-12MS-WG-75-06202018 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	ND	18.0	90	76-120	
Trichloroethene	20.0	ND	17.6	88	77-120	
Trichlorofluoromethane	20.0	ND	20.6	103	71-143	
Vinyl chloride	20.0	ND	18.5	93	62-138	
cis-1,3-Dichloropropene	20.0	ND	16.8	84	77-120	
Styrene	20.0	ND	18.3	92	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47491.D

Lab ID: 460-159001-3 MSD Client ID: PDI-12MSD-WG-75-06202018 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	16.5	83	0	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	18.8	94	1	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.4	97	5	30	59-150	
1,1,2-Trichloroethane	20.0	19.6	98	0	30	78-120	
1,1-Dichloroethane	20.0	19.5	98	2	30	77-123	
1,1-Dichloroethene	20.0	18.0	90	5	30	74-123	
1,2,4-Trichlorobenzene	20.0	19.9	99	3	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	16.3	82	0	30	55-134	
1,2-Dichlorobenzene	20.0	20.3	101	4	30	80-120	
1,2-Dichloroethane	20.0	17.2	86	0	30	76-121	
1,2-Dichloropropane	20.0	18.2	91	3	30	77-123	
1,3-Dichlorobenzene	20.0	19.4	97	3	30	80-120	
1,4-Dichlorobenzene	20.0	18.9	95	2	30	80-120	
2-Butanone (MEK)	100	81.7	82	3	30	64-120	
2-Hexanone	100	99.1	99	2	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	88.7	89	8	30	78-124	
Acetone	100	100	85	6	30	39-150	
Benzene	20.0	19.8	99	0	30	77-121	
Bromoform	20.0	16.8	79	9	30	53-120	
Bromomethane	20.0	10.1	51	26	30	10-150	
Carbon disulfide	20.0	16.6	83	4	30	69-133	
Carbon tetrachloride	20.0	15.7	79	1	30	70-132	
Chlorobenzene	20.0	20.0	100	1	30	80-120	
Dibromochloromethane	20.0	18.0	88	2	30	73-120	
Chloroethane	20.0	20.7	103	4	30	52-150	
Chloroform	20.0	16.8	84	4	30	80-120	
Chloromethane	20.0	16.2	81	6	30	56-131	
cis-1,2-Dichloroethene	20.0	15.8	79	2	30	80-120	F1
Cyclohexane	20.0	17.4	87	2	30	56-150	
Bromodichloromethane	20.0	17.0	85	0	30	76-120	
Dichlorodifluoromethane	20.0	19.2	96	6	30	50-131	
Ethylbenzene	20.0	19.9	99	1	30	80-120	
1,2-Dibromoethane	20.0	18.9	94	2	30	80-120	
Isopropylbenzene	20.0	19.1	95	4	30	80-123	
Methyl acetate	40.0	35.1	88	4	30	66-144	
Methyl tert-butyl ether	20.0	17.6	88	2	30	79-122	
Methylcyclohexane	20.0	17.0	85	2	30	61-145	
Methylene Chloride	20.0	17.5	87	5	30	77-123	
Tetrachloroethene	20.0	21.7	106	8	30	78-122	
Toluene	20.0	18.6	93	2	30	80-120	
trans-1,2-Dichloroethene	20.0	17.3	87	1	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Matrix: Water Level: Low Lab File ID: P47491.D

Lab ID: 460-159001-3 MSD Client ID: PDI-12MSD-WG-75-06202018 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.5	87	3	30	76-120	
Trichloroethene	20.0	17.8	89	1	30	77-120	
Trichlorofluoromethane	20.0	21.1	105	2	30	71-143	
Vinyl chloride	20.0	19.8	99	7	30	62-138	
cis-1,3-Dichloropropene	20.0	16.3	81	3	30	77-120	
Styrene	20.0	18.4	92	0	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: D52038.D Lab Sample ID: MB 460-532498/13

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS4 Date Analyzed: 06/30/2018 22:07

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-532498/3	D52028.D	06/30/2018 17:59
	LCSD 460-532498/4	D52029.D	06/30/2018 18:23
PDI-113-SO-53-06212018	460-159001-7	D52045.D	07/01/2018 01:03
PDI-13-SO-53-06212018	460-159001-6	D52046.D	07/01/2018 01:28

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: P47481.D Lab Sample ID: MB 460-532483/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS13 Date Analyzed: 06/30/2018 18:13

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-532483/5	P47477.D	06/30/2018 16:32
PDI-TB-06202018	460-159001-1	P47484.D	06/30/2018 19:29
PDI-FB-06202018	460-159001-2	P47488.D	06/30/2018 21:11
PDI-FB-06212018	460-159001-4	P47489.D	06/30/2018 21:36
PDI-12MS-WG-75-06202018 MS	460-159001-3 MS	P47490.D	06/30/2018 22:01
PDI-12MSD-WG-75-06202018 MSD	460-159001-3 MSD	P47491.D	06/30/2018 22:27
PDI-12-WG-75-06202018	460-159001-3	P47494.D	06/30/2018 23:43
PDI-13-WG-75-06212018	460-159001-5	P47495.D	07/01/2018 00:08

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: P43989.D BFB Injection Date: 04/20/2018

Instrument ID: CVOAMS13 BFB Injection Time: 01:16

Analysis Batch No.: 512577

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.5	
75	30.0 - 60.0 % of mass 95	51.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	78.9	
175	5.0 - 9.0 % of mass 174	6.1	(7.8) 1
176	95.0 - 101.0 % of mass 174	75.1	(95.2) 1
177	5.0 - 9.0 % of mass 176	5.2	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-512577/3	P43991.D	04/20/2018	02:35
	STD05 460-512577/4	P43992.D	04/20/2018	03:01
	STD5 460-512577/6	P43994.D	04/20/2018	03:51
	STD20 460-512577/7	P43995.D	04/20/2018	04:17
	STD1 460-512577/10	P43998.D	04/20/2018	06:00
	STD50 460-512577/11	P43999.D	04/20/2018	06:25
	STD200 460-512577/12	P44000.D	04/20/2018	06:50
	STD500 460-512577/13	P44001.D	04/20/2018	07:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: P47473.D BFB Injection Date: 06/30/2018

Instrument ID: CVOAMS13 BFB Injection Time: 14:51

Analysis Batch No.: 532483

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	20.7	
75	30.0 - 60.0 % of mass 95	50.8	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.1	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	50.0 - 120.00 % of mass 95	81.4	
175	5.0 - 9.0 % of mass 174	6.6	(8.2) 1
176	95.0 - 101.0 % of mass 174	81.1	(99.6) 1
177	5.0 - 9.0 % of mass 176	5.6	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-532483/3	P47475.D	06/30/2018	15:41
	LCS 460-532483/5	P47477.D	06/30/2018	16:32
	MB 460-532483/9	P47481.D	06/30/2018	18:13
PDI-TB-06202018	460-159001-1	P47484.D	06/30/2018	19:29
PDI-FB-06202018	460-159001-2	P47488.D	06/30/2018	21:11
PDI-FB-06212018	460-159001-4	P47489.D	06/30/2018	21:36
PDI-12MS-WG-75-06202018 MS	460-159001-3 MS	P47490.D	06/30/2018	22:01
PDI-12MSD-WG-75-06202018 MSD	460-159001-3 MSD	P47491.D	06/30/2018	22:27
PDI-12-WG-75-06202018	460-159001-3	P47494.D	06/30/2018	23:43
PDI-13-WG-75-06212018	460-159001-5	P47495.D	07/01/2018	00:08

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: D50565.D BFB Injection Date: 05/24/2018

Instrument ID: CVOAMS4 BFB Injection Time: 00:37

Analysis Batch No.: 521981

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.8	
75	30.0 - 60.0 % of mass 95	45.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	95.9	
175	5.0 - 9.0 % of mass 174	7.1	(7.4) 1
176	95.0 - 101.0 % of mass 174	92.4	(96.3) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD20 460-521981/6	D50570.D	05/24/2018	03:17
	STD50 460-521981/7	D50571.D	05/24/2018	03:41
	STD200 460-521981/8	D50572.D	05/24/2018	04:06
	STD500 460-521981/9	D50573.D	05/24/2018	04:30
	STD1 460-521981/14	D50578.D	05/24/2018	06:33
	STD5 460-521981/15	D50579.D	05/24/2018	06:58

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab File ID: D52026.D BFB Injection Date: 06/30/2018

Instrument ID: CVOAMS4 BFB Injection Time: 17:25

Analysis Batch No.: 532498

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.7	
75	30.0 - 60.0 % of mass 95	44.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.7	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	92.3	
175	5.0 - 9.0 % of mass 174	6.7	(7.3) 1
176	95.0 - 101.0 % of mass 174	88.3	(95.7) 1
177	5.0 - 9.0 % of mass 176	6.0	(6.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-532498/2	D52027.D	06/30/2018	17:34
	LCS 460-532498/3	D52028.D	06/30/2018	17:59
	LCSD 460-532498/4	D52029.D	06/30/2018	18:23
	MB 460-532498/13	D52038.D	06/30/2018	22:07
PDI-113-SO-53-06212018	460-159001-7	D52045.D	07/01/2018	01:03
PDI-13-SO-53-06212018	460-159001-6	D52046.D	07/01/2018	01:28

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Sample No.: CCVIS 460-532483/3 Date Analyzed: 06/30/2018 15:41

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P47475.D Heated Purge: (Y/N) N

Calibration ID: 67790

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		251668	2.06	354782	3.09	574670	3.67
UPPER LIMIT		503336	2.56	709564	3.59	1149340	4.17
LOWER LIMIT		125834	1.56	177391	2.59	287335	3.17
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-532483/5		272644	2.06	394173	3.09	612749	3.67
MB 460-532483/9		268346	2.06	379324	3.09	549543	3.66
460-159001-1	PDI-TB-06202018	252592	2.05	351921	3.09	509657	3.67
460-159001-2	PDI-FB-06202018	251817	2.06	363204	3.09	502334	3.67
460-159001-4	PDI-FB-06212018	246798	2.05	350443	3.09	503940	3.67
460-159001-3 MS	PDI-12MS-WG-75-06202018 MS	251826	2.06	363399	3.09	516900	3.67
460-159001-3 MSD	PDI-12MSD-WG-75-06202018 MSD	270219	2.06	387105	3.09	556818	3.67
460-159001-3	PDI-12-WG-75-06202018	249026	2.05	354637	3.09	534856	3.66
460-159001-5	PDI-13-WG-75-06212018	223740	2.05	344029	3.09	547964	3.67

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Sample No.: CCVIS 460-532483/3 Date Analyzed: 06/30/2018 15:41

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): P47475.D Heated Purge: (Y/N) N

Calibration ID: 67790

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31001	4.55	448459	7.08	251537	10.61
UPPER LIMIT		62002	5.05	896918	7.58	503074	11.11
LOWER LIMIT		15501	4.05	224230	6.58	125769	10.11
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-532483/5		32136	4.56	465987	7.08	263694	10.61
MB 460-532483/9		29608	4.56	402627	7.08	205617	10.62
460-159001-1	PDI-TB-06202018	26439	4.55	373755	7.08	189990	10.62
460-159001-2	PDI-FB-06202018	26728	4.55	392139	7.08	190496	10.62
460-159001-4	PDI-FB-06212018	25609	4.56	355688	7.08	186202	10.62
460-159001-3 MS	PDI-12MS-WG-75-06202018 MS	28304	4.55	397763	7.08	228796	10.61
460-159001-3 MSD	PDI-12MSD-WG-75-06202018 MSD	31358	4.55	429203	7.08	239878	10.61
460-159001-3	PDI-12-WG-75-06202018	25764	4.55	398144	7.08	204710	10.62
460-159001-5	PDI-13-WG-75-06212018	26294	4.55	394361	7.08	201988	10.62

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Sample No.: CCVIS 460-532498/2 Date Analyzed: 06/30/2018 17:34

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): D52027.D Heated Purge: (Y/N) Y

Calibration ID: 68781

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		402524	3.57	277309	4.86	587941	6.21
UPPER LIMIT		805048	4.07	554618	5.36	1175882	6.71
LOWER LIMIT		201262	3.07	138655	4.36	293971	5.71
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-532498/3		348759	3.56	238792	4.86	519482	6.21
LCSD 460-532498/4		342154	3.57	233455	4.86	532359	6.21
MB 460-532498/13		370347	3.57	246824	4.86	553379	6.22
460-159001-7	PDI-113-SO-53-06212018	354778	3.56	244095	4.86	528569	6.21
460-159001-6	PDI-13-SO-53-06212018	363848	3.56	243067	4.85	500348	6.21

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Sample No.: CCVIS 460-532498/2 Date Analyzed: 06/30/2018 17:34

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): D52027.D Heated Purge: (Y/N) Y

Calibration ID: 68781

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		33392	7.06	415100	9.34	237383	11.15
UPPER LIMIT		66784	7.56	830200	9.84	474766	11.65
LOWER LIMIT		16696	6.56	207550	8.84	118692	10.65
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-532498/3		30665	7.06	365398	9.34	211561	11.15
LCSD 460-532498/4		30757	7.06	369734	9.34	214812	11.15
MB 460-532498/13		27895	7.06	369567	9.34	225090	11.15
460-159001-7	PDI-113-SO-53-06212018	31358	7.06	358119	9.34	221920	11.15
460-159001-6	PDI-13-SO-53-06212018	32131	7.06	339687	9.34	207643	11.15

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-TB-06202018 | Lab Sample ID: 460-159001-1

Matrix: Water | Lab File ID: P47484.D

Analysis Method: 8260C | Date Collected: 06/20/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND	*	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-TB-06202018 | Lab Sample ID: 460-159001-1

Matrix: Water | Lab File ID: P47484.D

Analysis Method: 8260C | Date Collected: 06/20/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 19:29

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		74-132
460-00-4	4-Bromofluorobenzene	86		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47484.D
Lims ID: 460-159001-A-1
Client ID: PDI-TB-06202018
Sample Type: Client
Inject. Date: 30-Jun-2018 19:29:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-A-1
Misc. Info.: 460-0074647-012
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:16:35 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: moroneyc Date: 01-Jul-2018 07:46:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
24 Acetone	43	1.909	1.902	0.007	85	1160	1.13	
* 29 TBA-d9 (IS)	65	2.052	2.060	-0.008	0	252592	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	118344	43.8	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	351921	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	159779	43.3	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	509657	50.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	26439	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	497510	48.6	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	373755	50.0	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	88	125220	42.9	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	189990	50.0	

Reagents:

8260ISNEW_00123 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

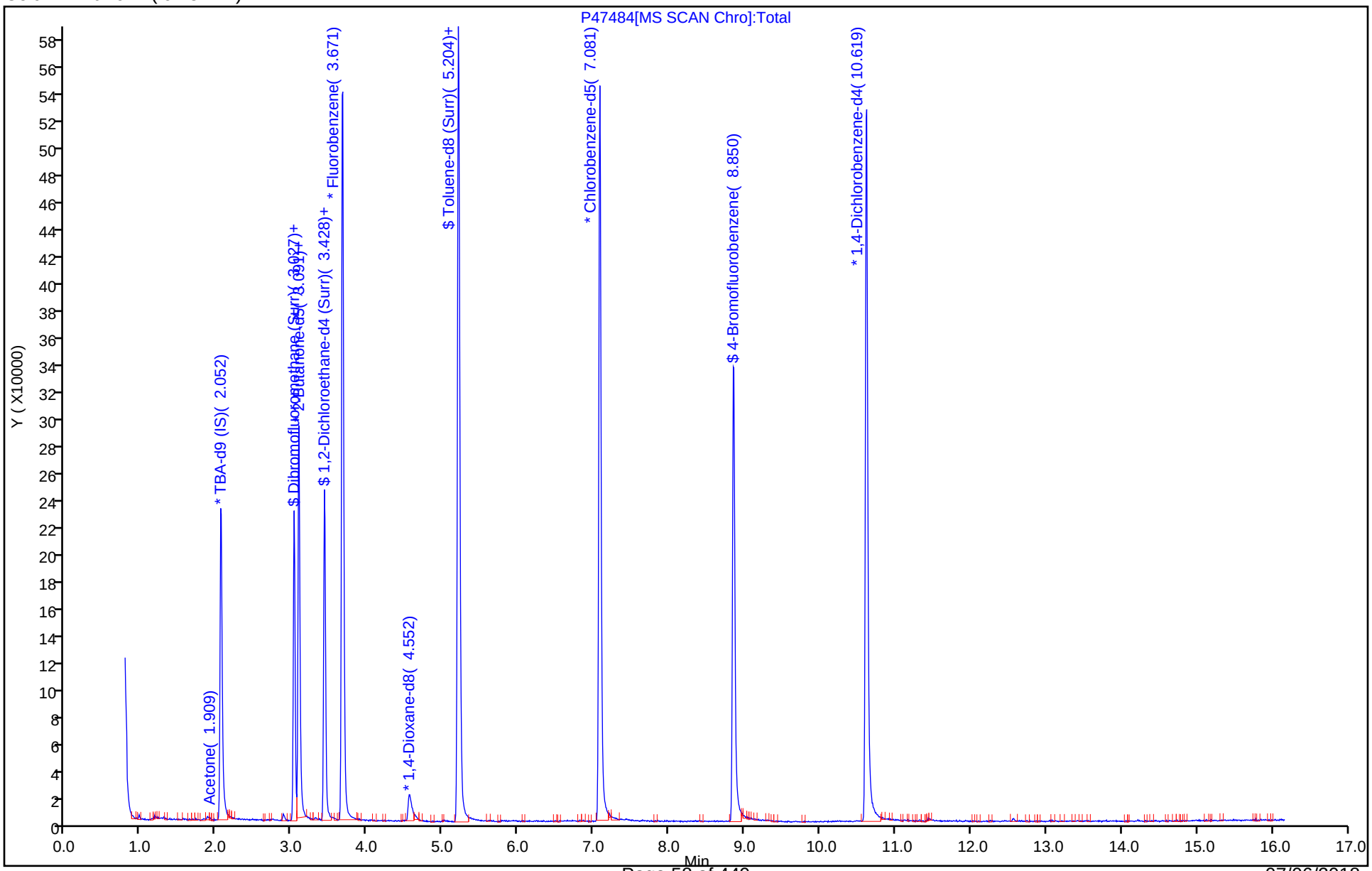
Report Date: 01-Jul-2018 14:16:35 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47484.D

Injection Date:	30-Jun-2018 19:29:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-A-1	Lab Sample ID:	460-159001-1	Worklist Smp#:	12
Client ID:	PDI-TB-06202018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



User Disabled Compound Report

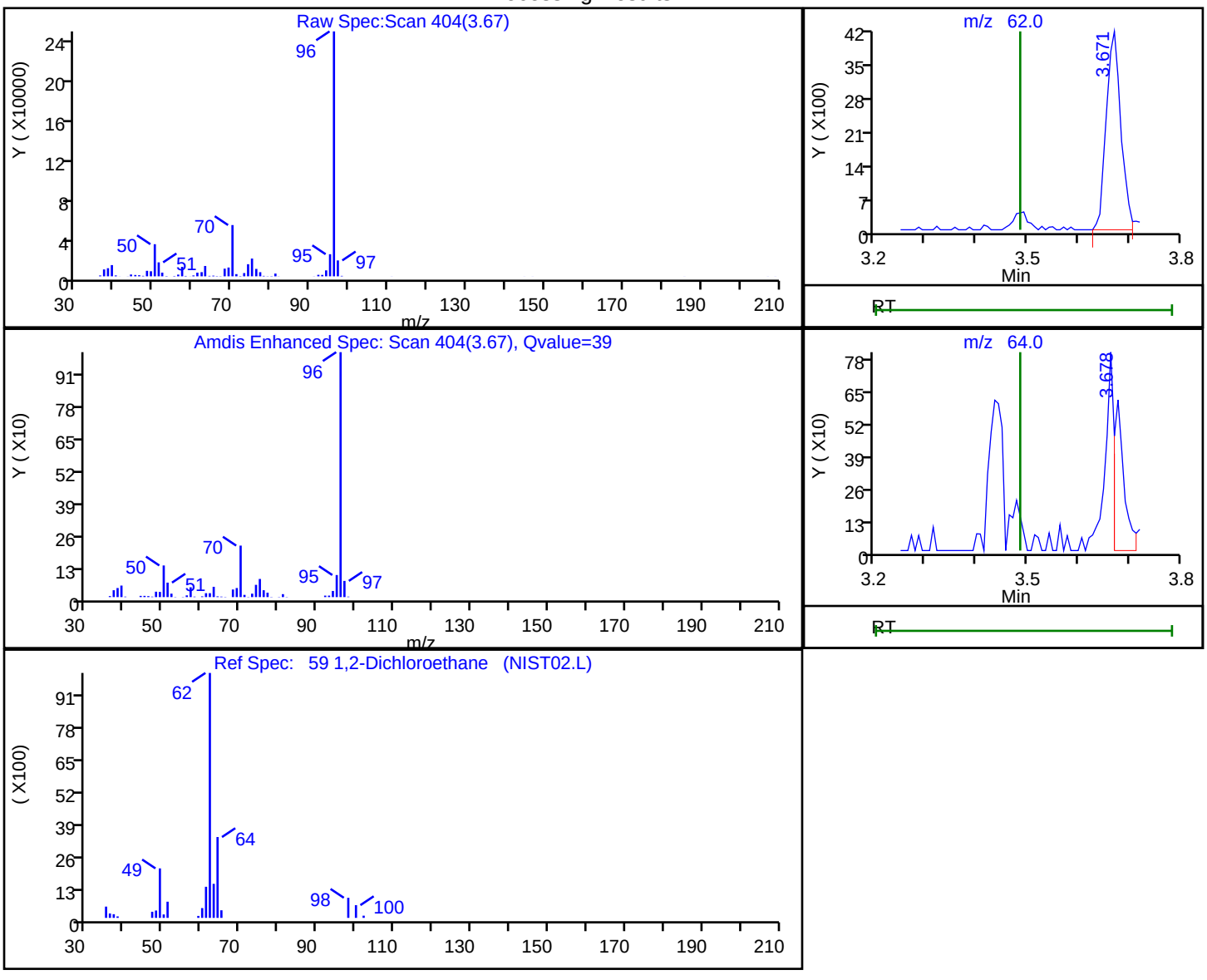
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47484.D

Injection Date:	30-Jun-2018 19:29:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-1	Lab Sample ID:	460-159001-1
Client ID:	PDI-TB-06202018		
Operator ID:		ALS Bottle#: 11	Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
3.67	62.00	8379	1.666991
3.68	64.00	847	

Reviewer: moroneyc, 01-Jul-2018 07:46:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

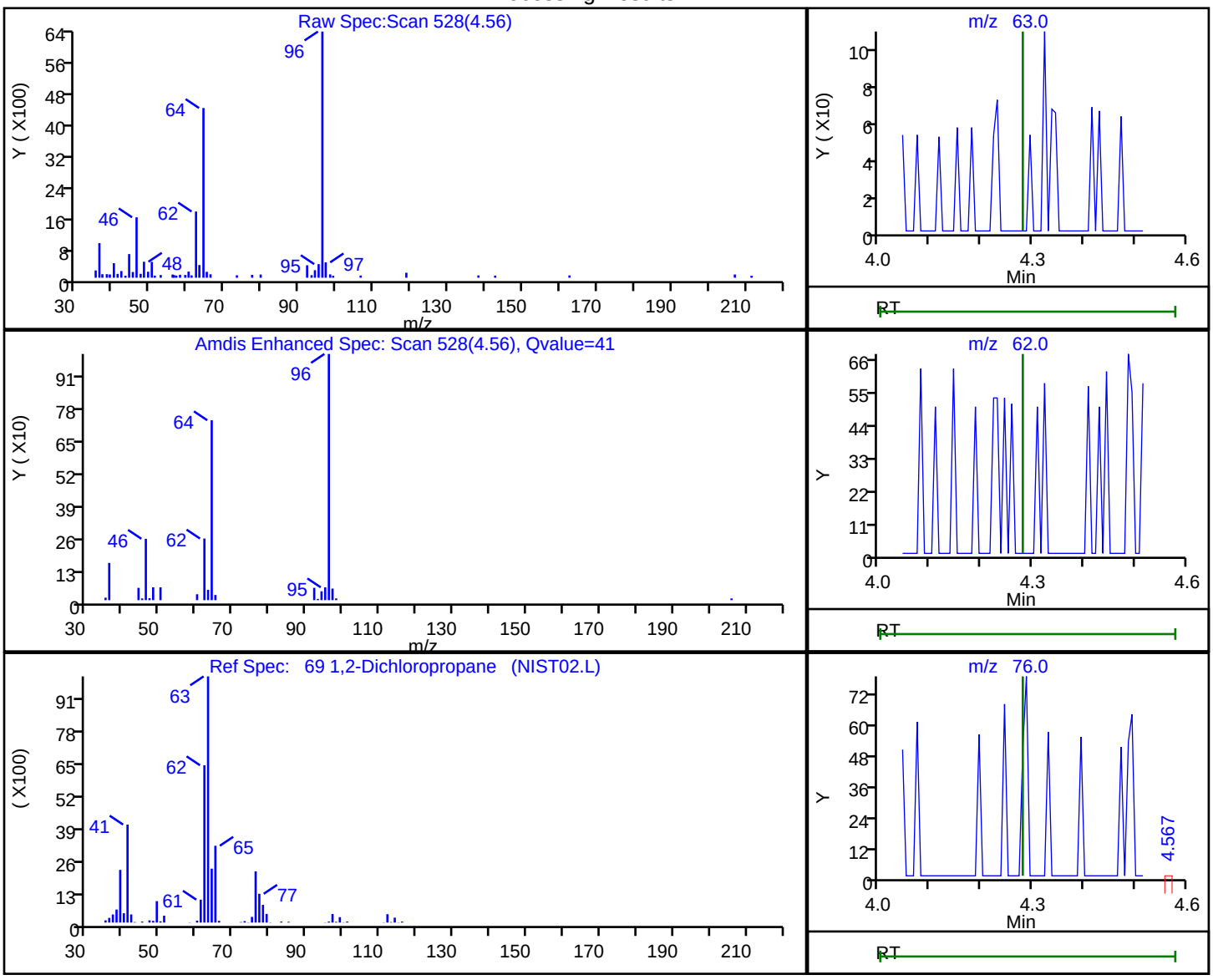
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47484.D		
Injection Date:	30-Jun-2018 19:29:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-1	Lab Sample ID:	460-159001-1
Client ID:	PDI-TB-06202018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

69 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
4.56	63.00	834	0.233116
4.56	62.00	5553	
4.57	76.00	26	
4.28	112.00	0	

Reviewer: moroneyc, 01-Jul-2018 07:46:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

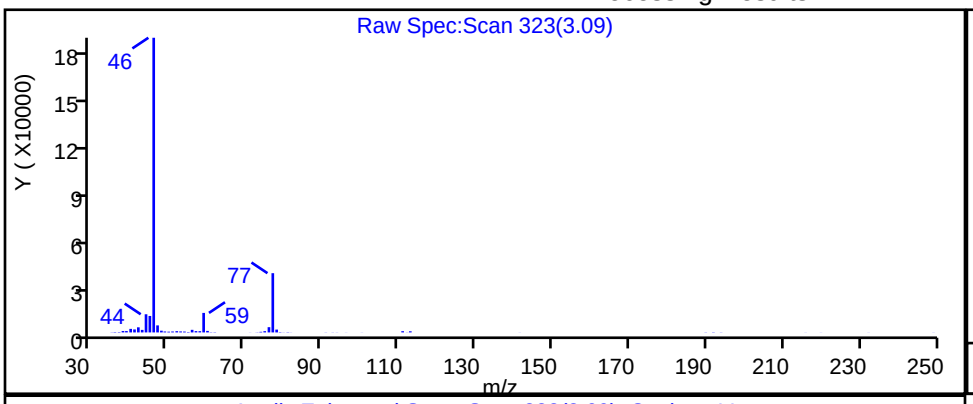
User Disabled Compound Report

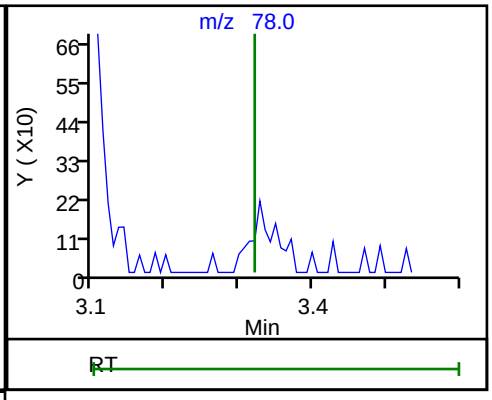
TestAmerica Edison

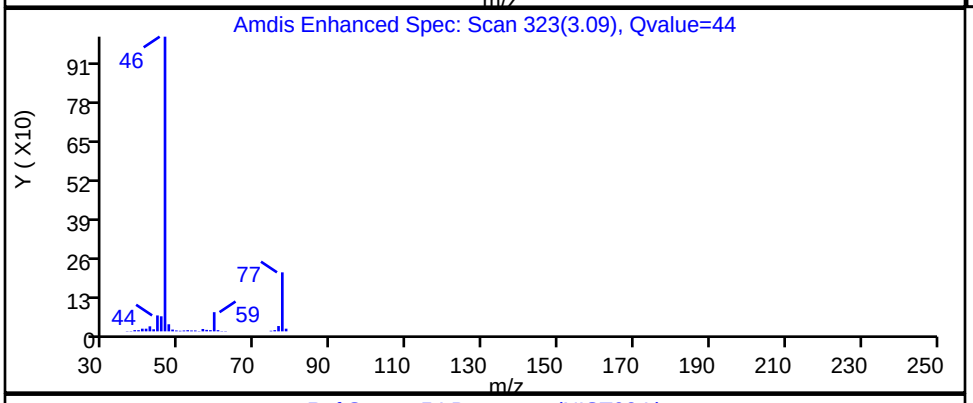
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47484.D		
Injection Date:	30-Jun-2018 19:29:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-1	Lab Sample ID:	460-159001-1
Client ID:	PDI-TB-06202018		
Operator ID:		ALS Bottle#:	11 Worklist Smp#: 12
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

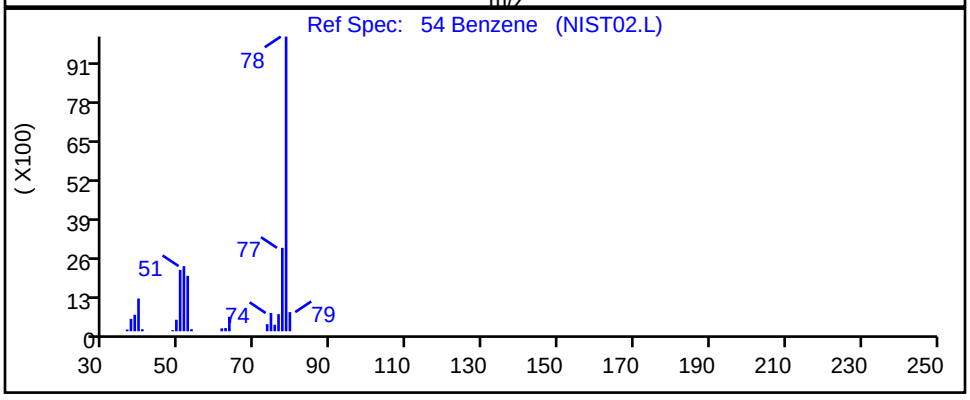
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.09	78.00	3096	0.261266

Reviewer: moroneyc, 01-Jul-2018 07:46:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-FB-06202018 | Lab Sample ID: 460-159001-2

Matrix: Water | Lab File ID: P47488.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 21:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	7.7		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	12		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND	*	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-FB-06202018 | Lab Sample ID: 460-159001-2

Matrix: Water | Lab File ID: P47488.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:00

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 21:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	5.7		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	87		74-132
460-00-4	4-Bromofluorobenzene	79		77-124
2037-26-5	Toluene-d8 (Surr)	86		80-120
1868-53-7	Dibromofluoromethane (Surr)	85		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D
Lims ID: 460-159001-A-2
Client ID: PDI-FB-06202018
Sample Type: Client
Inject. Date: 30-Jun-2018 21:11:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-A-2
Misc. Info.: 460-0074647-016
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 07:53:11 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: moroneyc Date: 01-Jul-2018 07:48:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
23 Methylene Chloride	84	1.880	1.880	0.000	97	18169	5.68	
24 Acetone	43	1.909	1.902	0.007	83	12800	12.1	
* 29 TBA-d9 (IS)	65	2.059	2.059	0.000	0	251817	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.026	3.026	0.000	95	113345	42.6	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	363204	250.0	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	98	3420	7.70	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	158858	43.7	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	502334	50.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	26728	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	463759	43.2	
91 2-Hexanone	43	6.823	6.794	0.029	94	2420	0.9406	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	392139	50.0	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	88	121205	39.5	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	190496	50.0	

Reagents:

8260ISNEW_00123 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

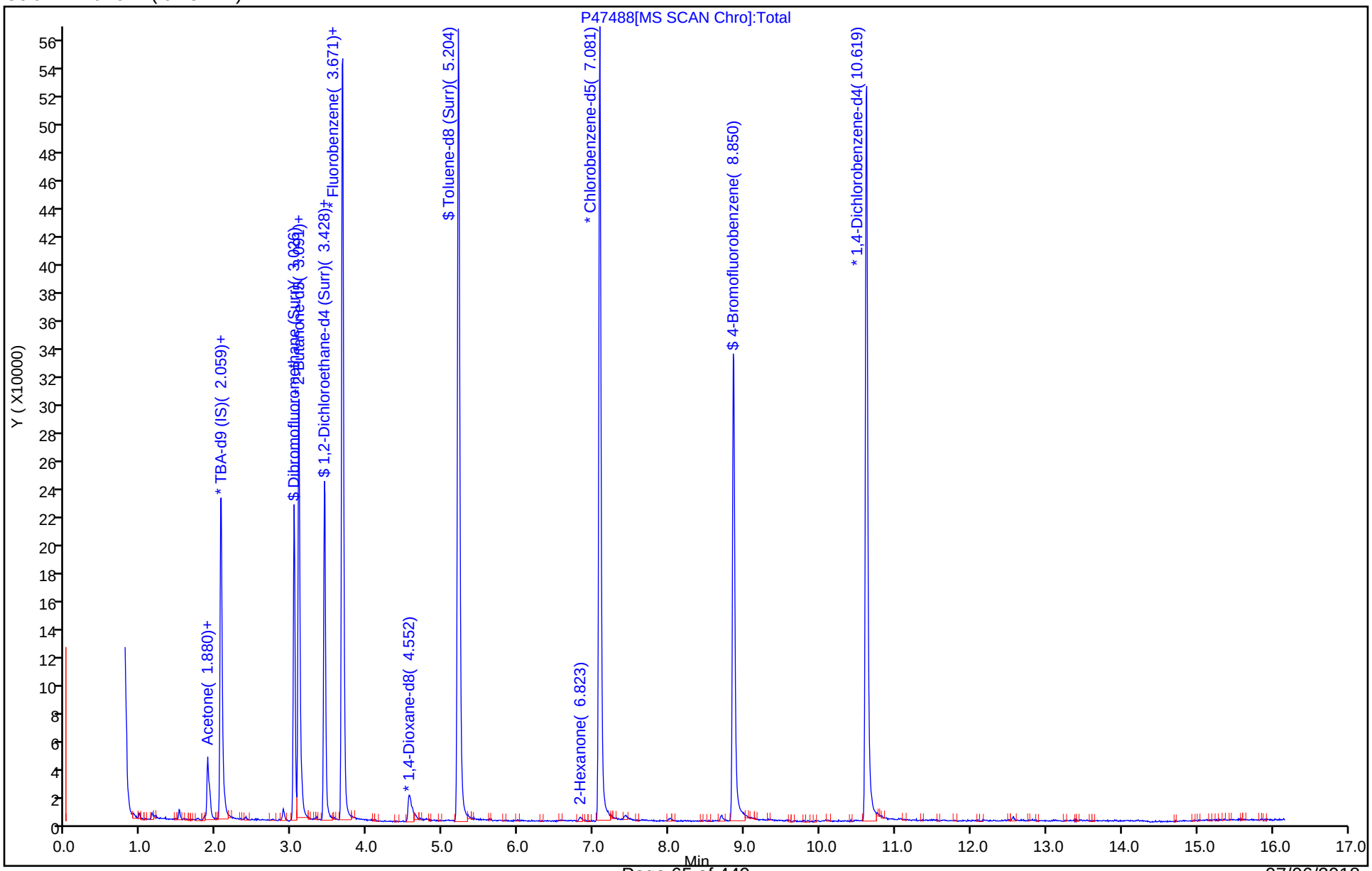
Report Date: 01-Jul-2018 07:55:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D

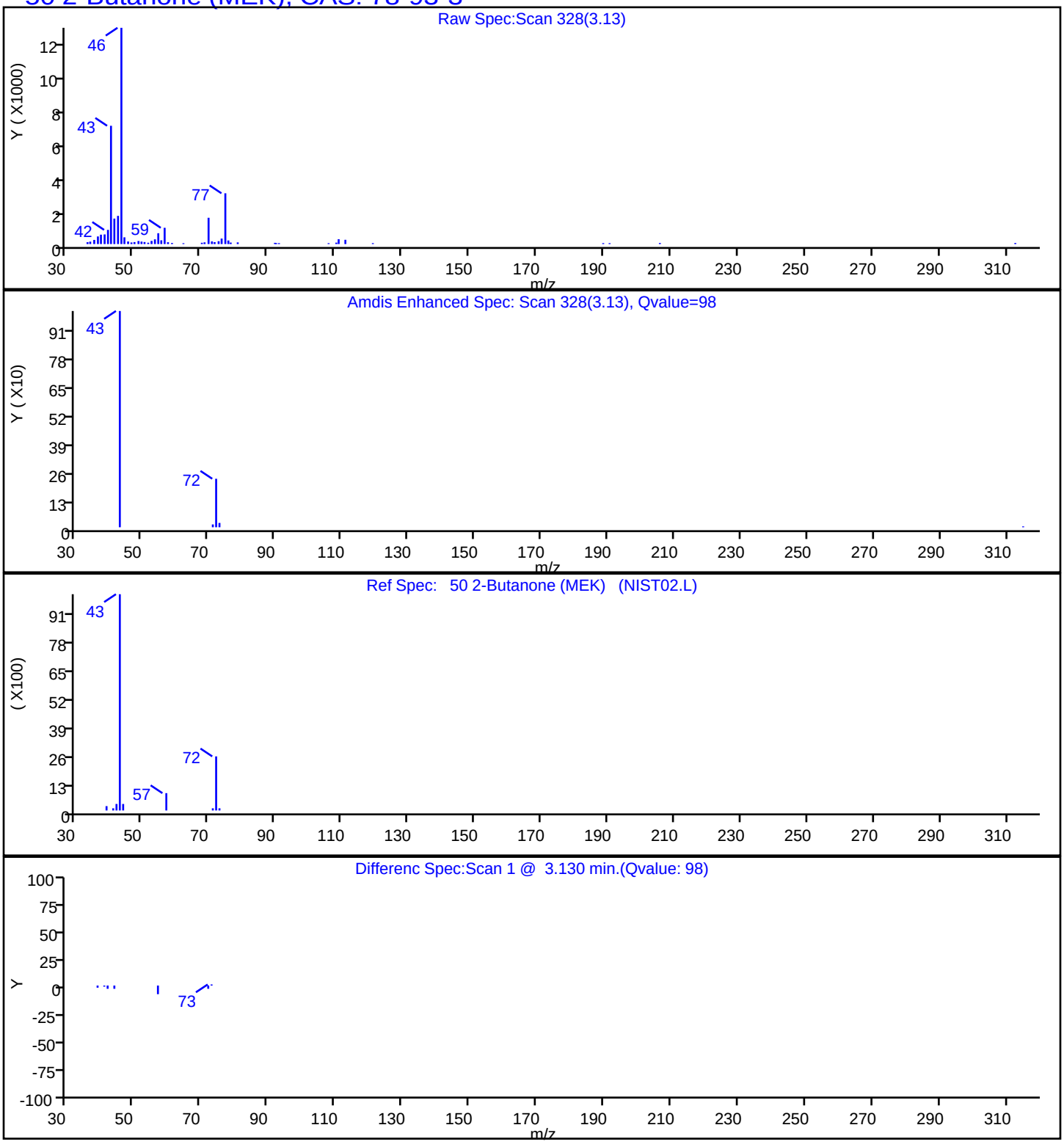
Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2	Worklist Smp#:	16
Client ID:	PDI-FB-06202018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D				
Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2		
Client ID:	PDI-FB-06202018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

50 2-Butanone (MEK), CAS: 78-93-3

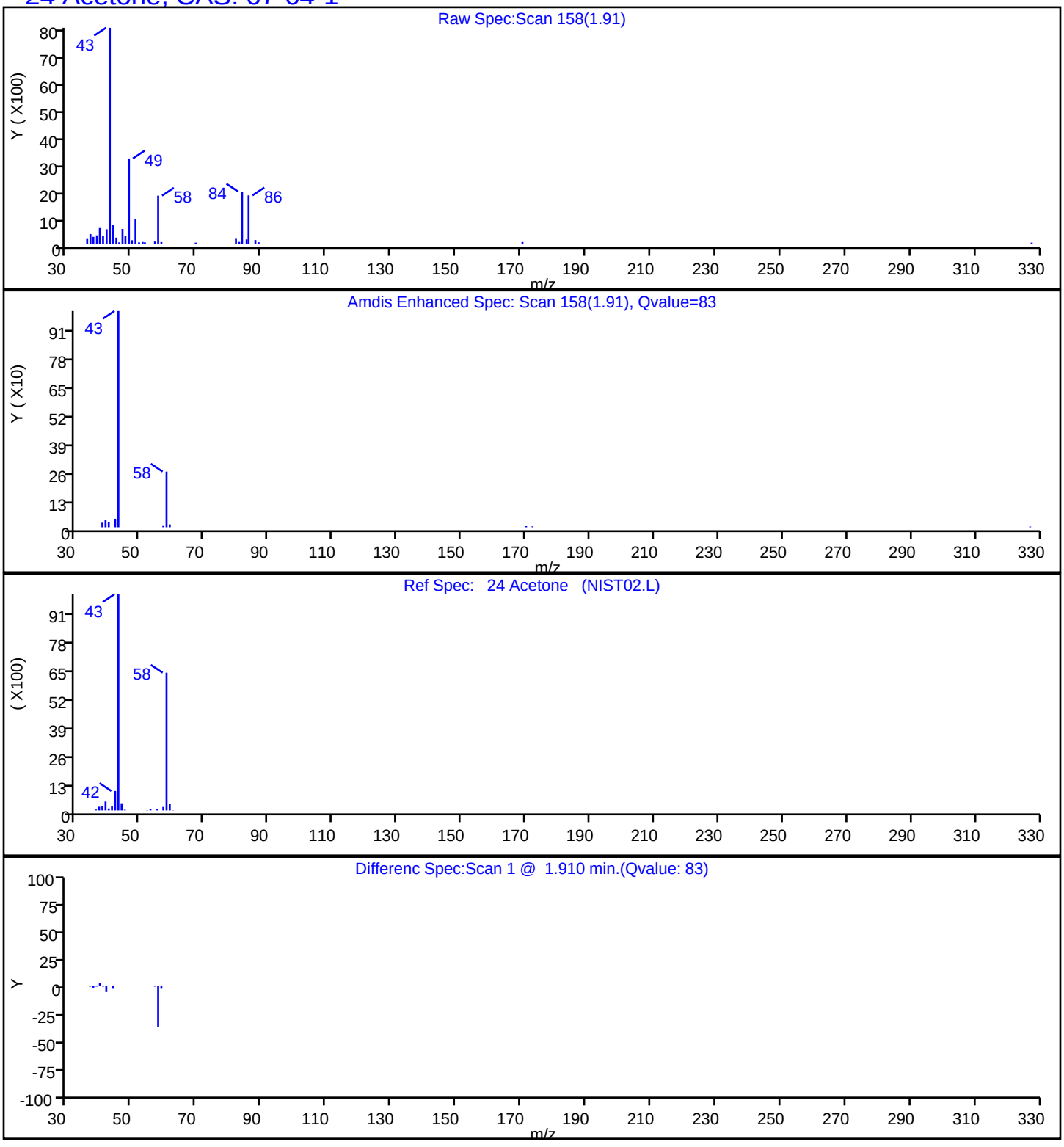


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D

Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2		
Client ID:	PDI-FB-06202018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

24 Acetone, CAS: 67-64-1

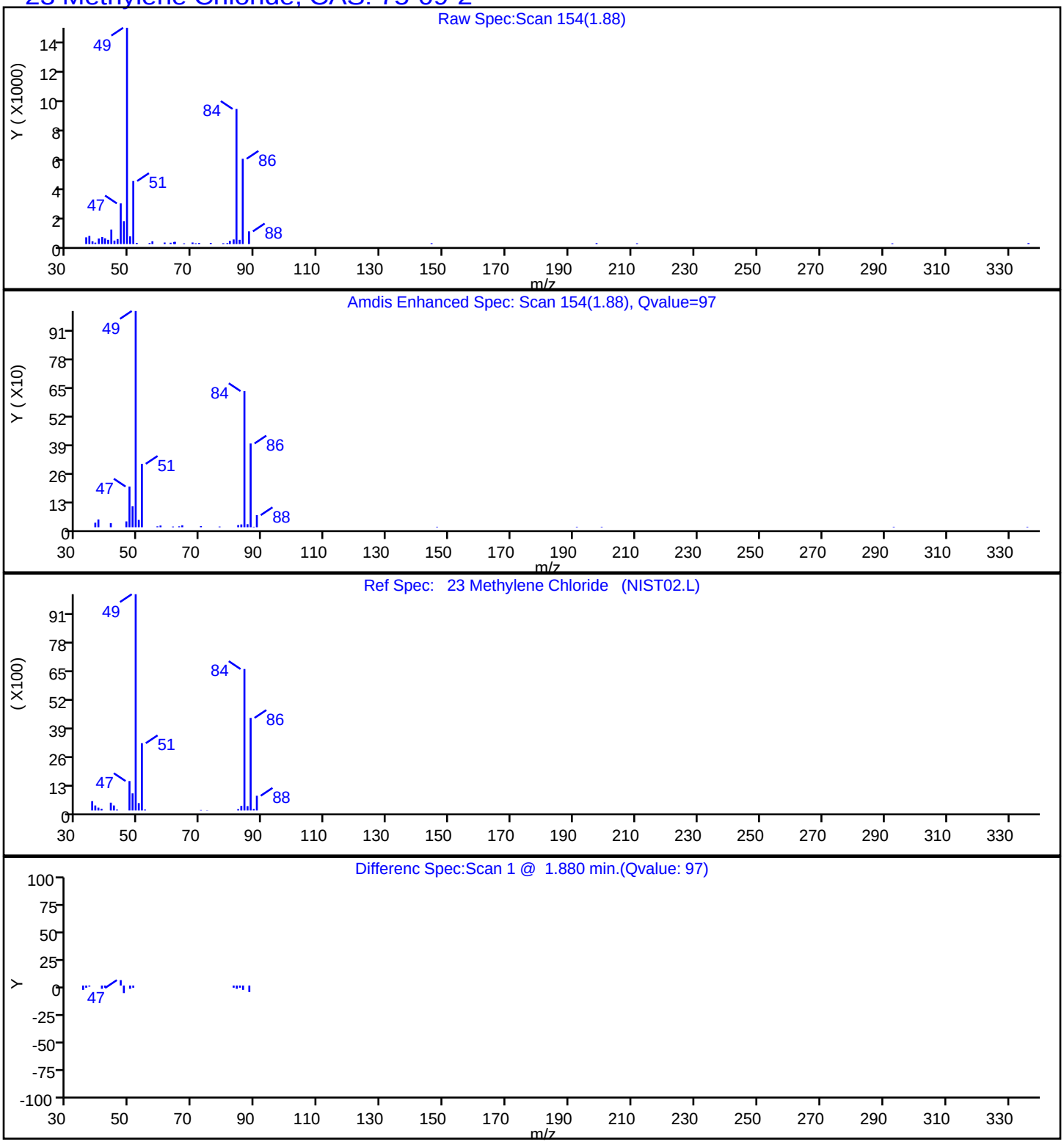


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D

Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2		
Client ID:	PDI-FB-06202018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

23 Methylene Chloride, CAS: 75-09-2



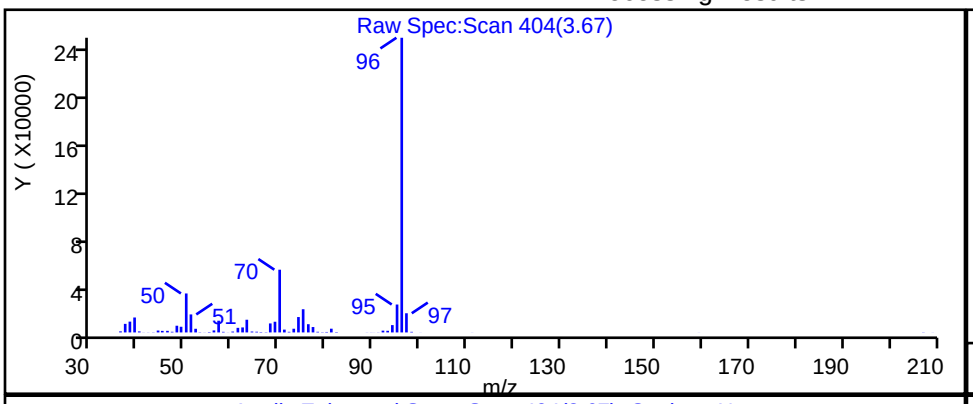
User Disabled Compound Report

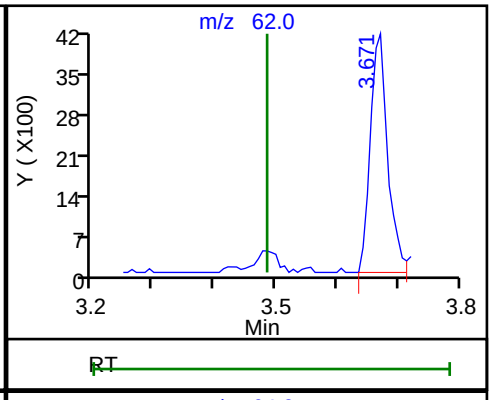
TestAmerica Edison

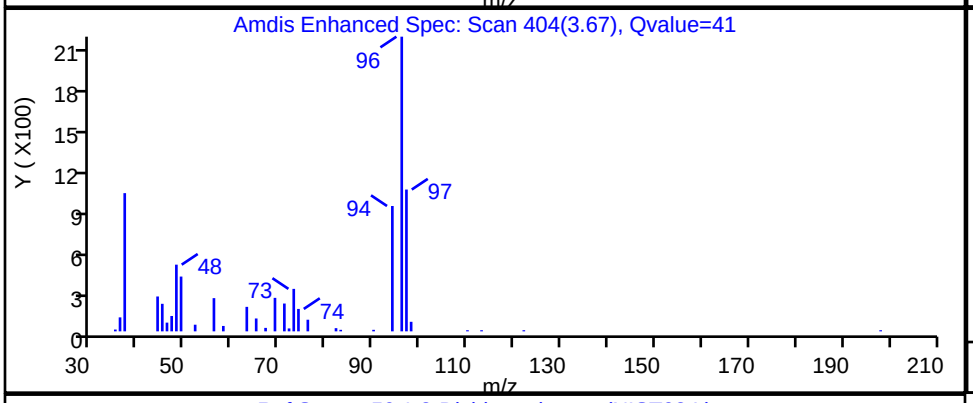
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D		
Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2
Client ID:	PDI-FB-06202018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

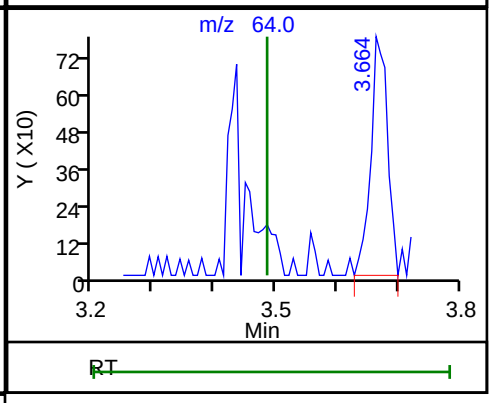
59 1,2-Dichloroethane, CAS: 107-06-2

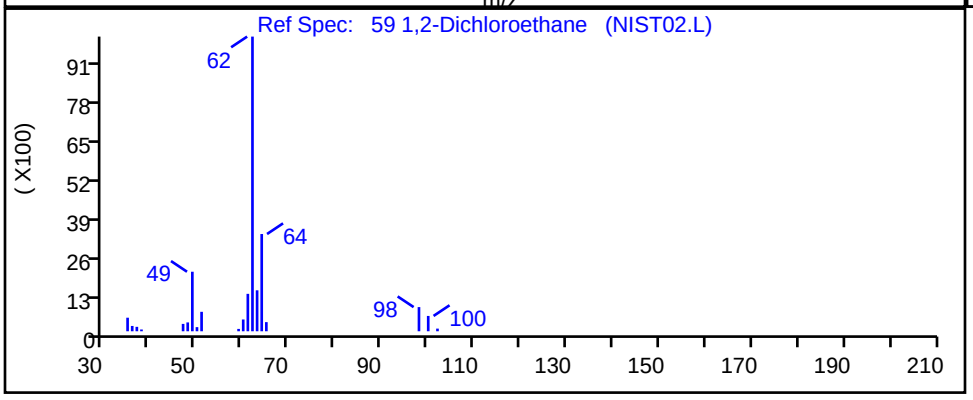
Processing Results











RT	Mass	Response	Amount
3.67	62.00	8176	1.650317
3.66	64.00	1511	

Reviewer: moroneyc, 01-Jul-2018 07:47:56

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

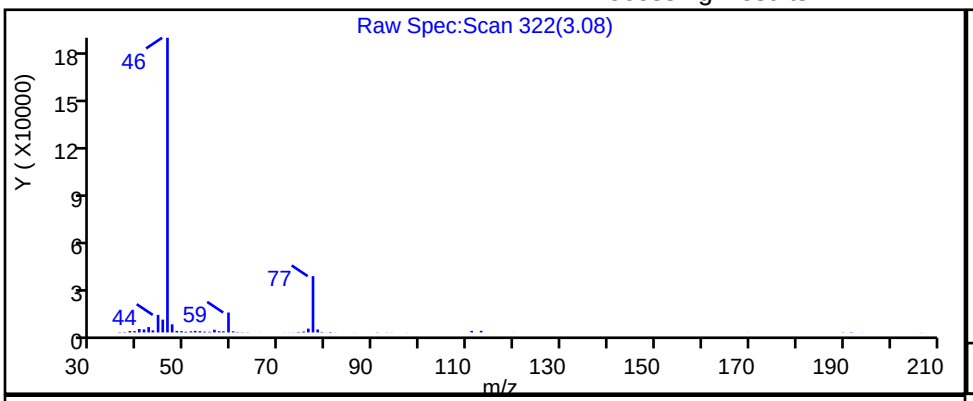
User Disabled Compound Report

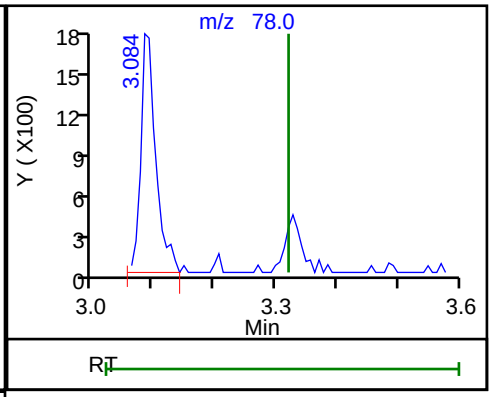
TestAmerica Edison

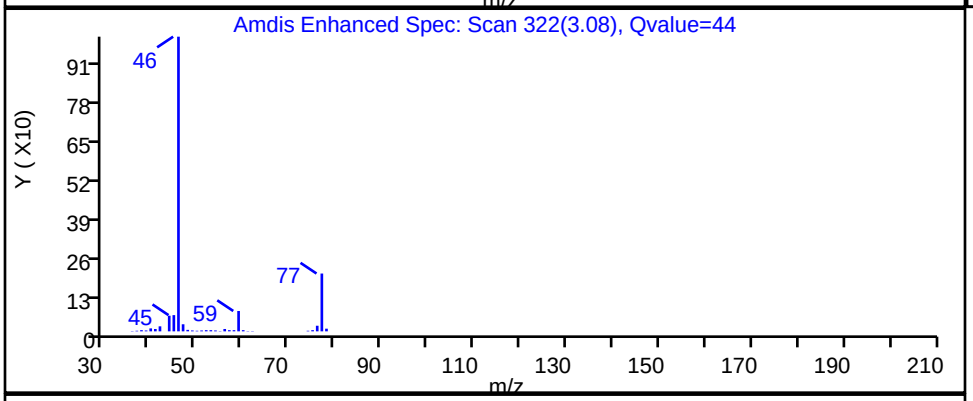
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D		
Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2
Client ID:	PDI-FB-06202018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

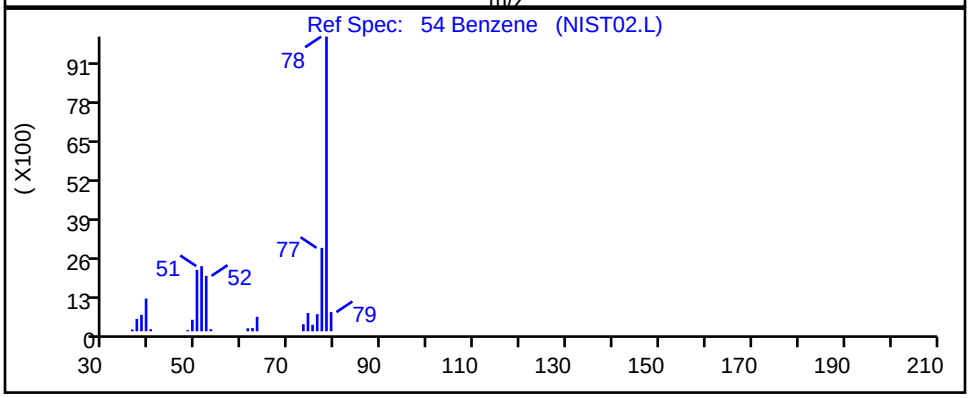
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.08	78.00	3064	0.246444

Reviewer: moroneyc, 01-Jul-2018 07:47:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

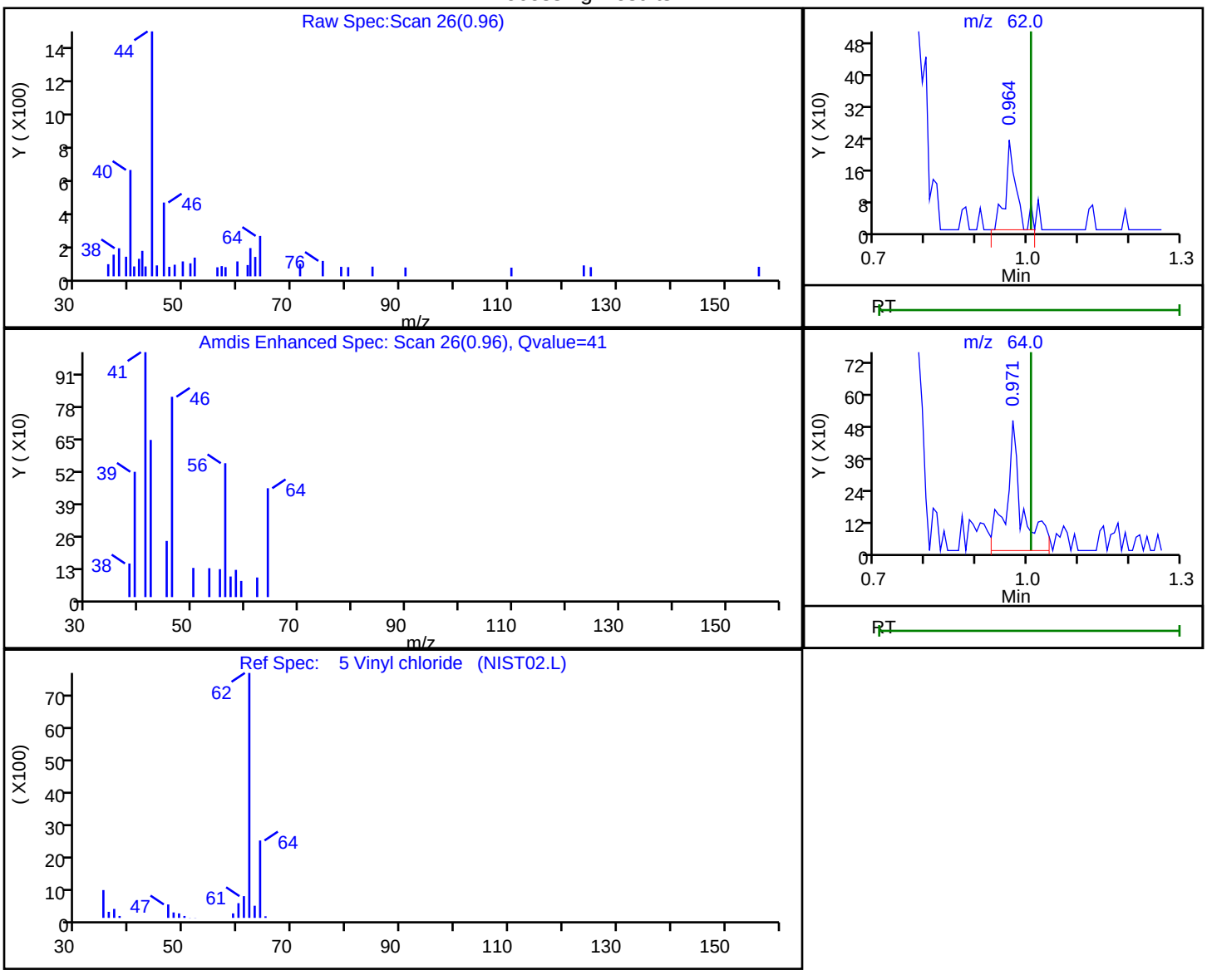
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47488.D		
Injection Date:	30-Jun-2018 21:11:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-2	Lab Sample ID:	460-159001-2
Client ID:	PDI-FB-06202018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
0.96	62.00	335	0.080273
0.97	64.00	1075	

Reviewer: moroneyc, 01-Jul-2018 07:47:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12-WG-75-06202018 | Lab Sample ID: 460-159001-3

Matrix: Water | Lab File ID: P47494.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 23:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	15		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	0.90	J	1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	0.35	J	1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND	* F1	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12-WG-75-06202018 | Lab Sample ID: 460-159001-3

Matrix: Water | Lab File ID: P47494.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 23:43

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.43	J	1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		74-132
460-00-4	4-Bromofluorobenzene	83		77-124
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	88		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D
Lims ID: 460-159001-B-3
Client ID: PDI-12-WG-75-06202018
Sample Type: Client
Inject. Date: 30-Jun-2018 23:43:30 ALS Bottle#: 21 Worklist Smp#: 22
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-3
Misc. Info.: 460-0074647-022
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:19:26 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: sarmientod Date: 30-Jun-2018 23:47:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
22 Isopropyl alcohol	45	1.845	1.838	0.007	97	4065	18.9	
24 Acetone	43	1.909	1.902	0.007	84	15960	15.4	
27 Hexane	86	2.024	2.024	0.000	97	272	0.3253	
* 29 TBA-d9 (IS)	65	2.052	2.060	-0.008	0	249026	1000.0	
30 2-Methyl-2-propanol	59	2.095	2.103	-0.008	33	1589	5.12	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	-0.001	96	124921	44.1	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	354637	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	161480	41.7	
* 62 Fluorobenzene	96	3.664	3.671	-0.007	98	534856	50.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	25764	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	487688	44.7	
82 Tetrachloroethene	166	5.698	5.691	0.007	82	1261	0.4342	
87 Chlorodibromomethane	129	6.157	6.135	0.022	93	991	0.3476	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	398144	50.0	
98 Bromoform	173	8.069	8.055	0.014	91	1611	0.8966	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	87	128619	41.3	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	204710	50.0	
131 Naphthalene	128	13.370	13.356	0.014	97	3738	0.4137	

Reagents:

8260ISNEW_00123	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added: 1.00	Units: uL	Run Reagent

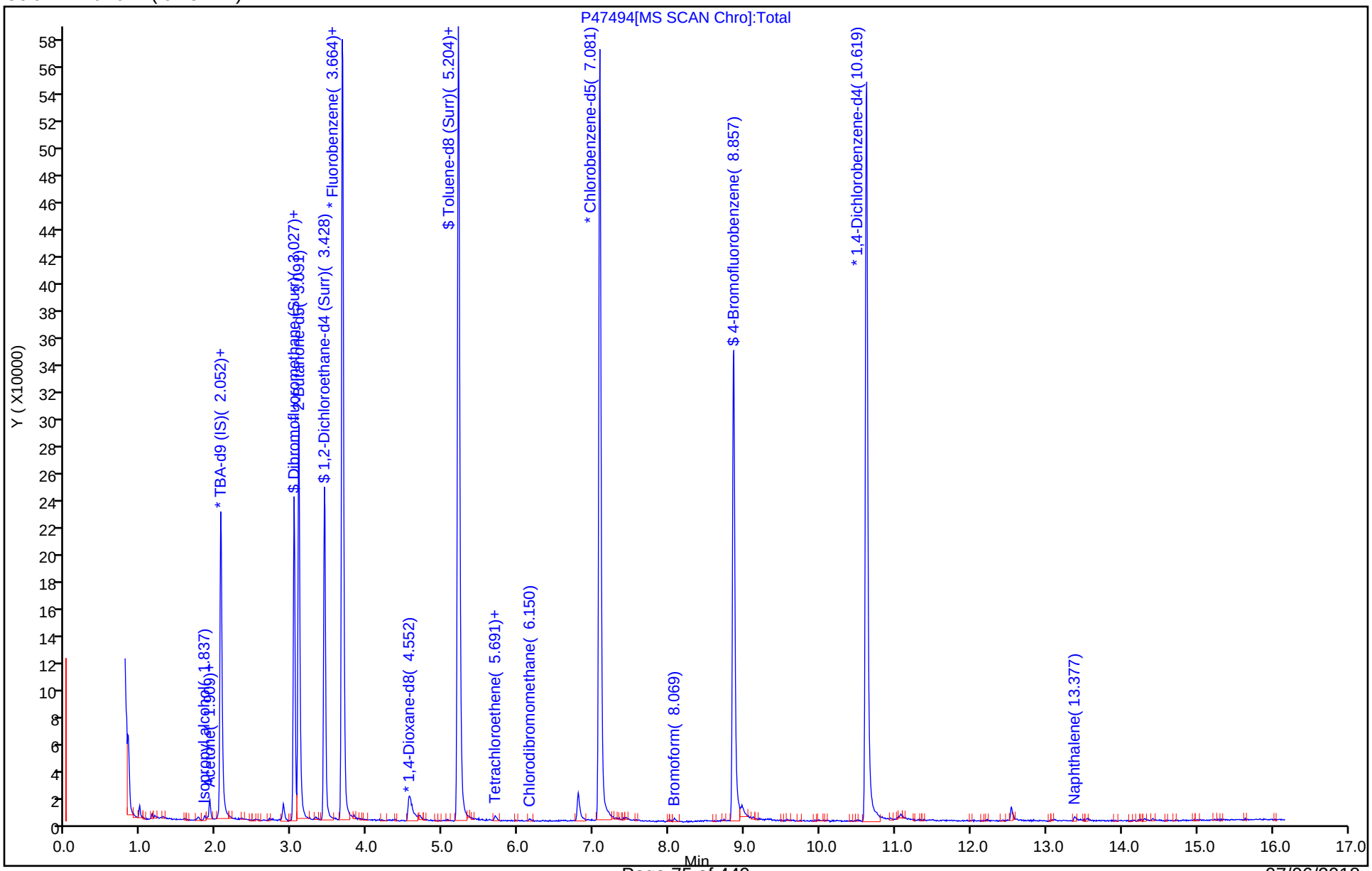
Report Date: 01-Jul-2018 14:20:50 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D

Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3	Worklist Smp#:	22
Client ID:	PDI-12-WG-75-06202018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	21
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

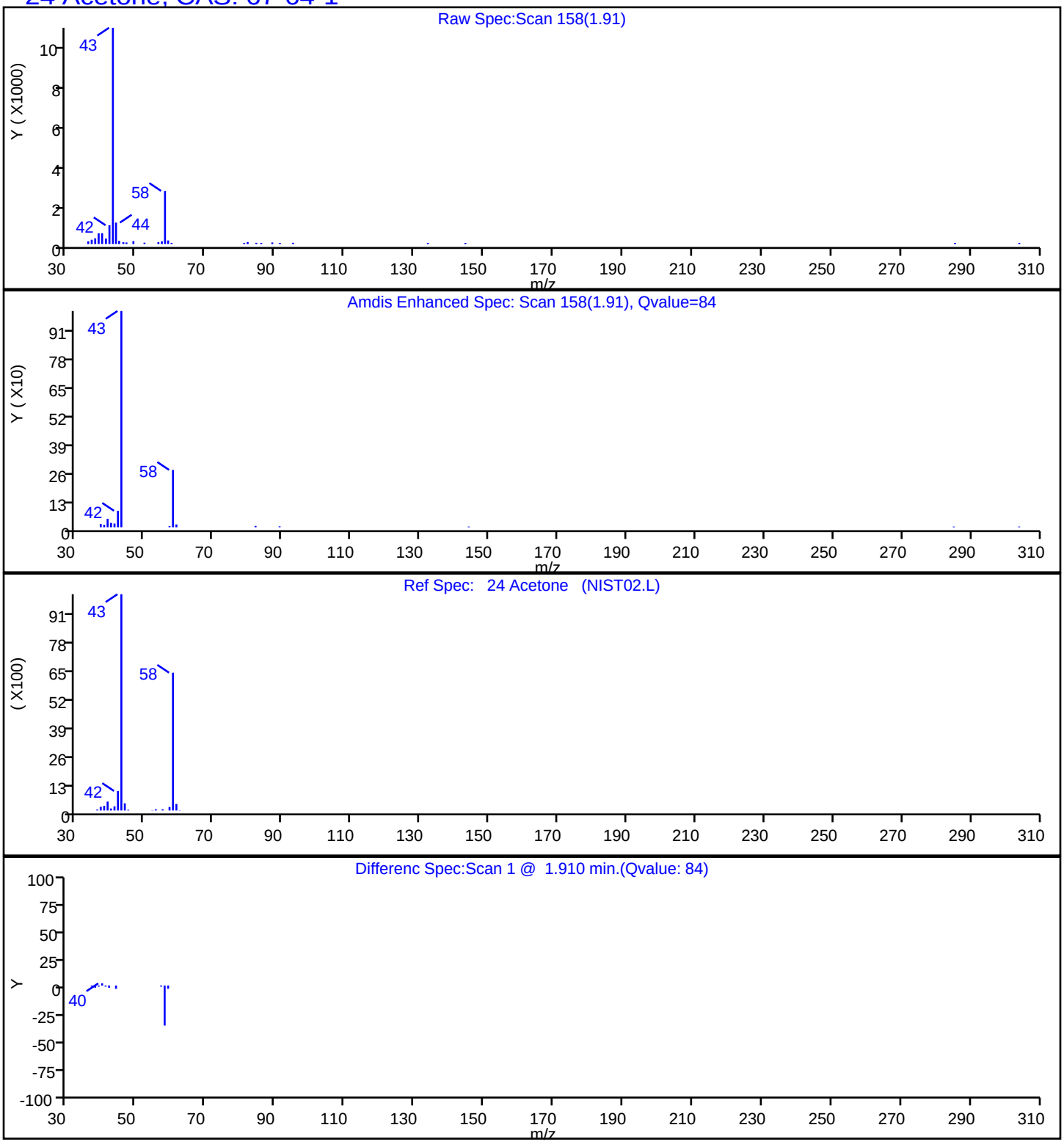
Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D

Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3		
Client ID:	PDI-12-WG-75-06202018				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

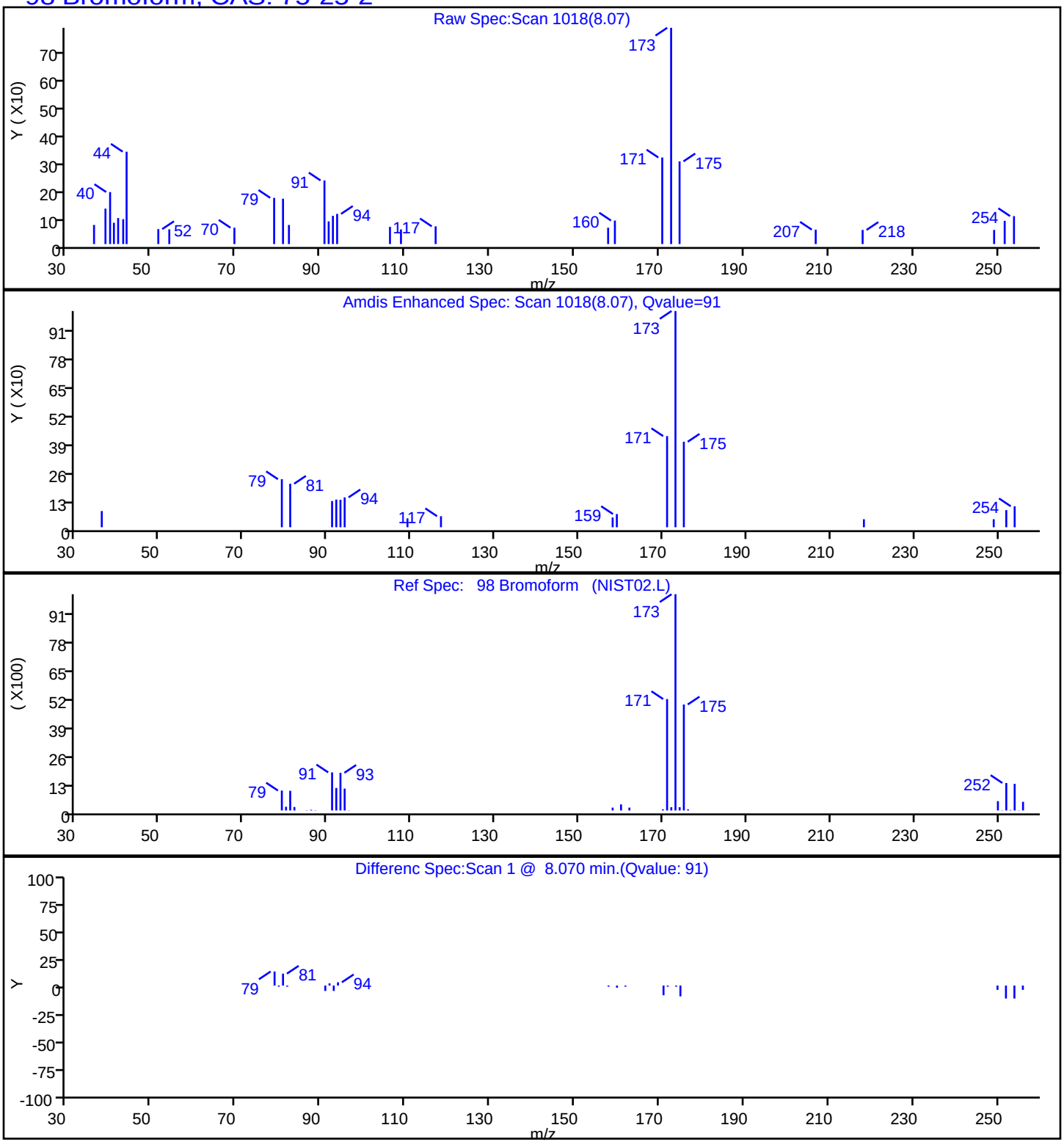
24 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D		
Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3
Client ID:	PDI-12-WG-75-06202018		
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

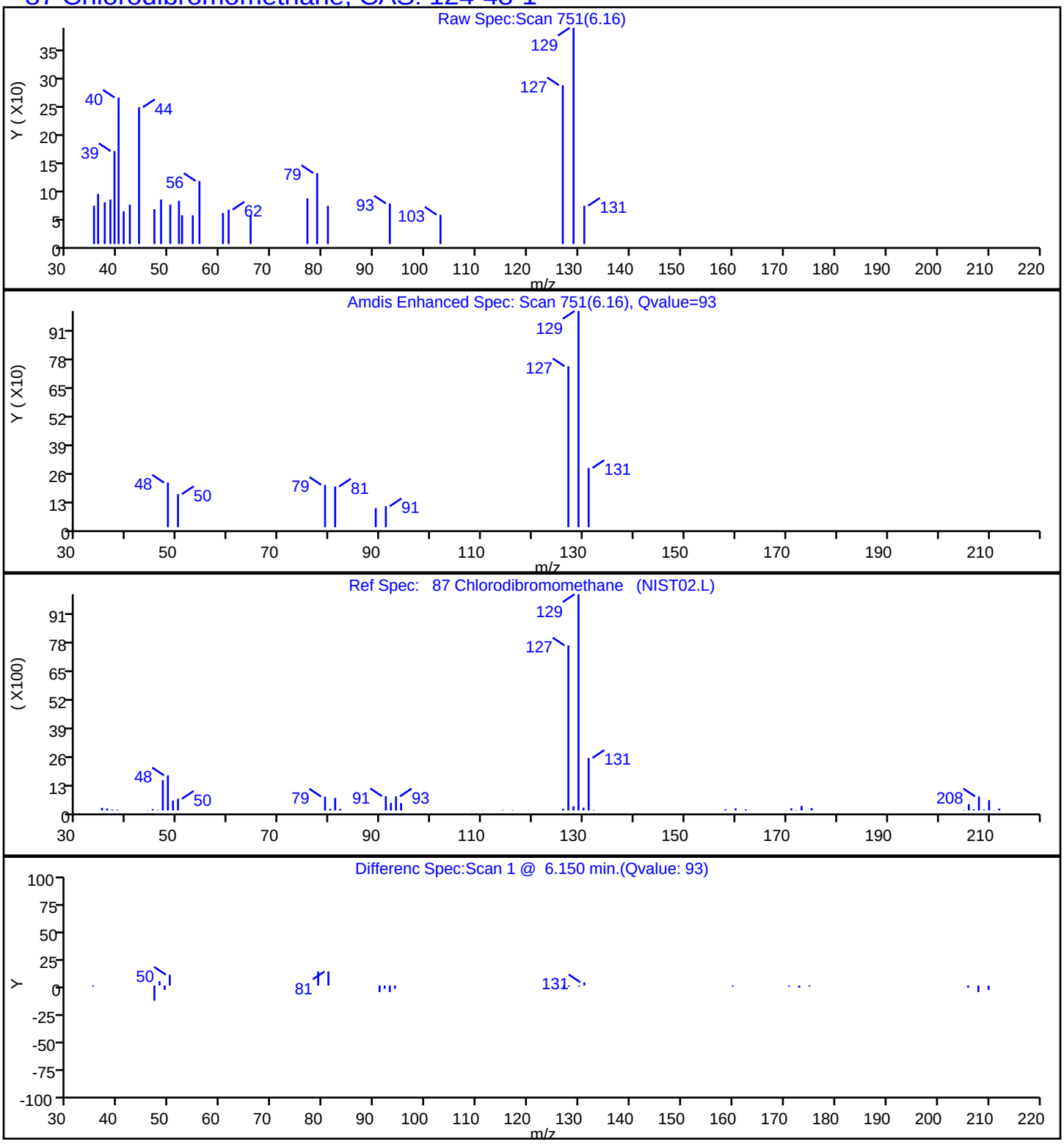
98 Bromoform, CAS: 75-25-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D		
Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3
Client ID:	PDI-12-WG-75-06202018		
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

87 Chlorodibromomethane, CAS: 124-48-1

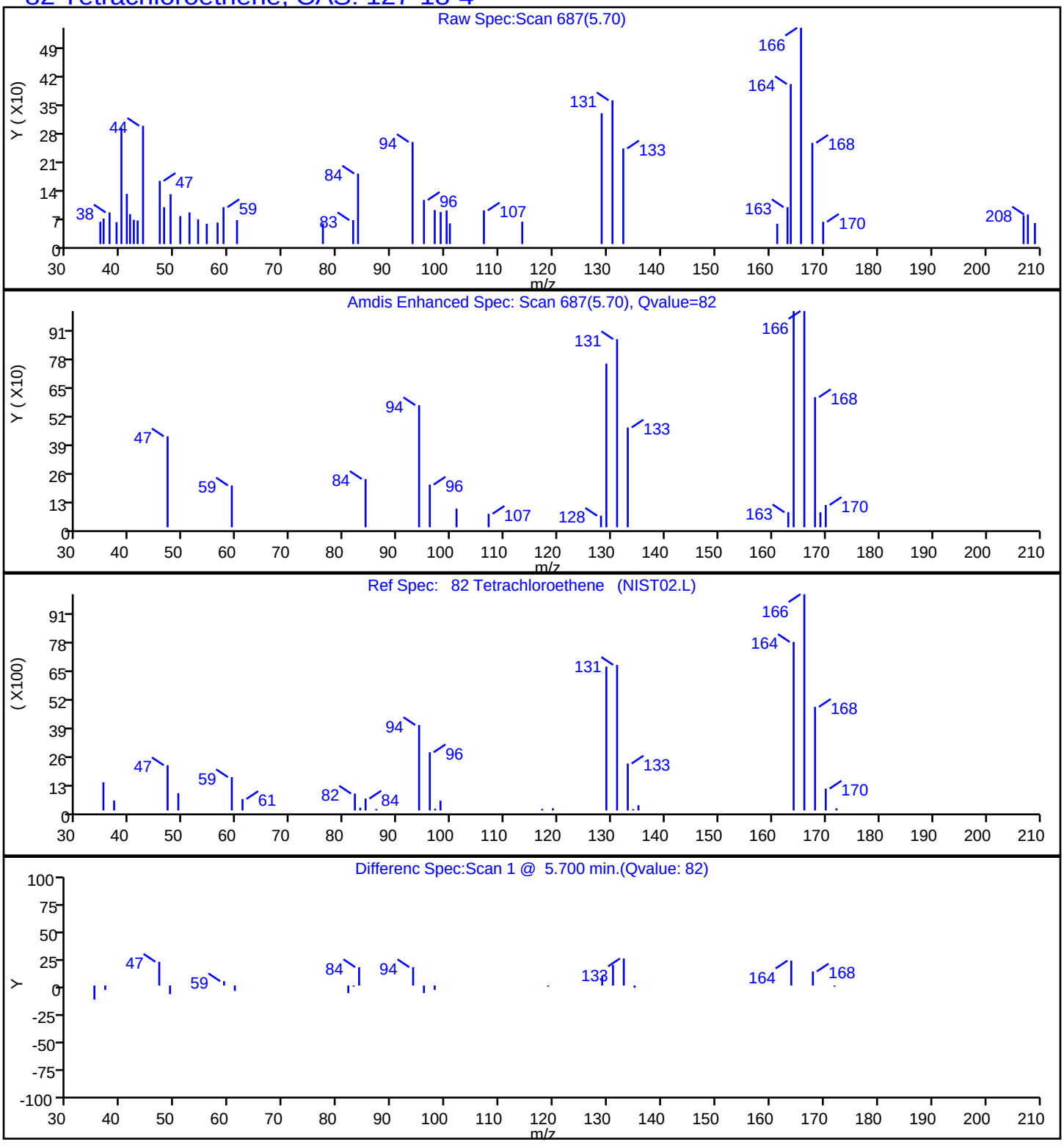


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D

Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3
Client ID:	PDI-12-WG-75-06202018		
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

82 Tetrachloroethene, CAS: 127-18-4



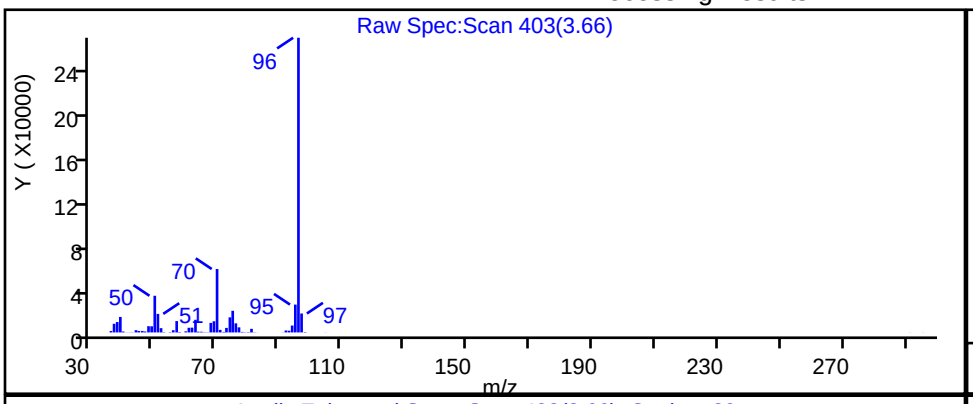
User Disabled Compound Report

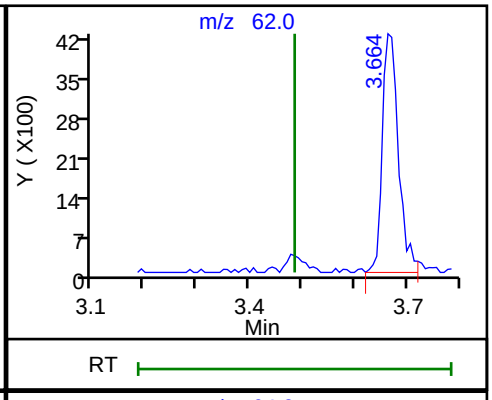
TestAmerica Edison

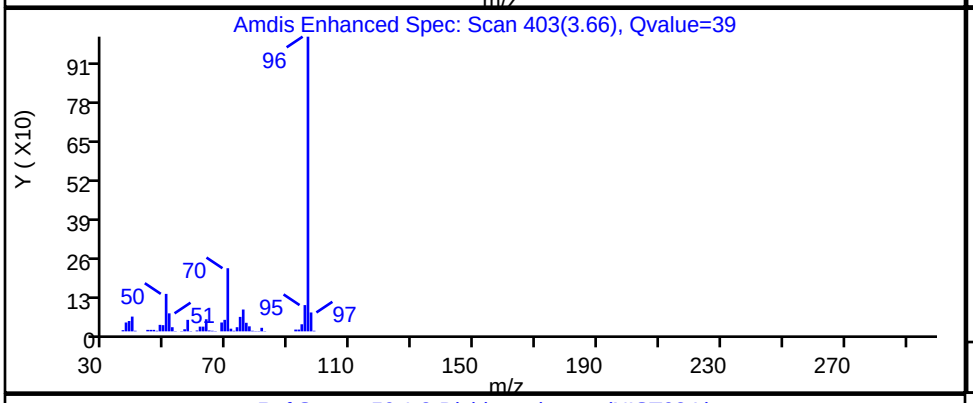
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D		
Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3
Client ID:	PDI-12-WG-75-06202018		
Operator ID:		ALS Bottle#:	21 Worklist Smp#: 22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

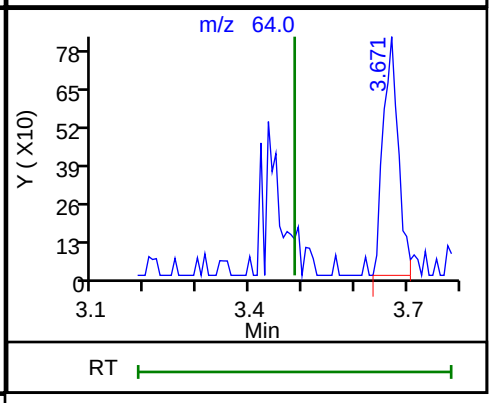
59 1,2-Dichloroethane, CAS: 107-06-2

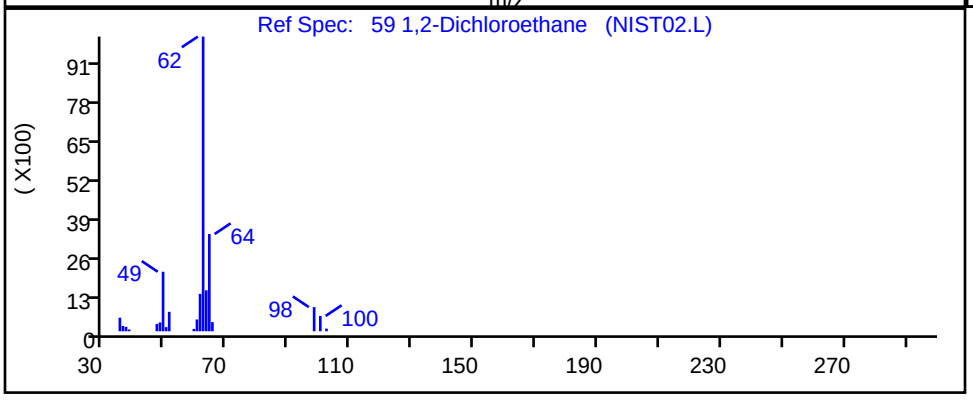
Processing Results











RT	Mass	Response	Amount
3.66	62.00	9097	1.724568
3.67	64.00	1667	

Reviewer: moroneyc, 01-Jul-2018 07:51:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

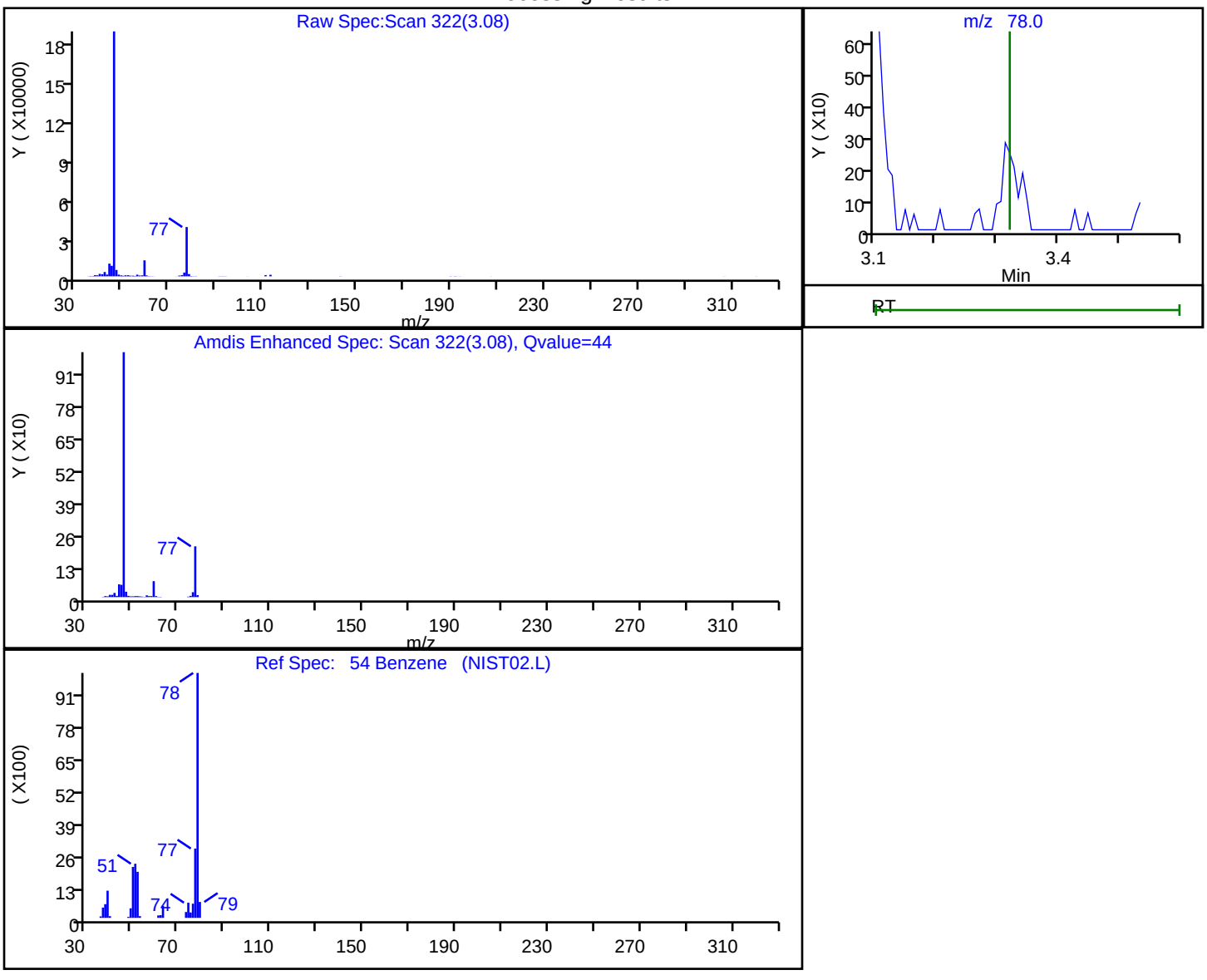
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D				
Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3		
Client ID:	PDI-12-WG-75-06202018				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

54 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
3.08	78.00	3052	0.241776

Reviewer: moroneyc, 01-Jul-2018 07:51:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

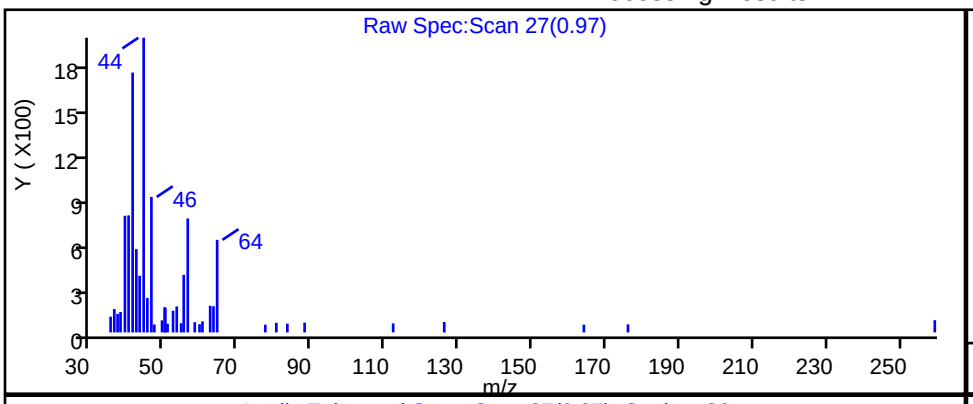
User Disabled Compound Report

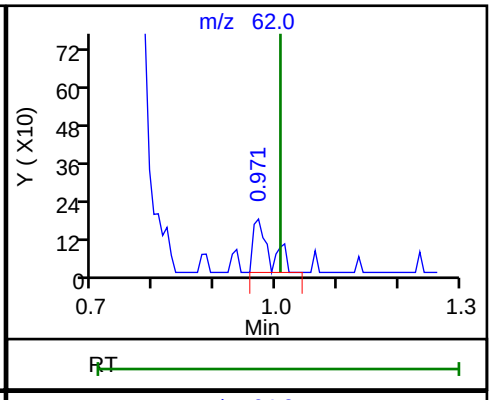
TestAmerica Edison

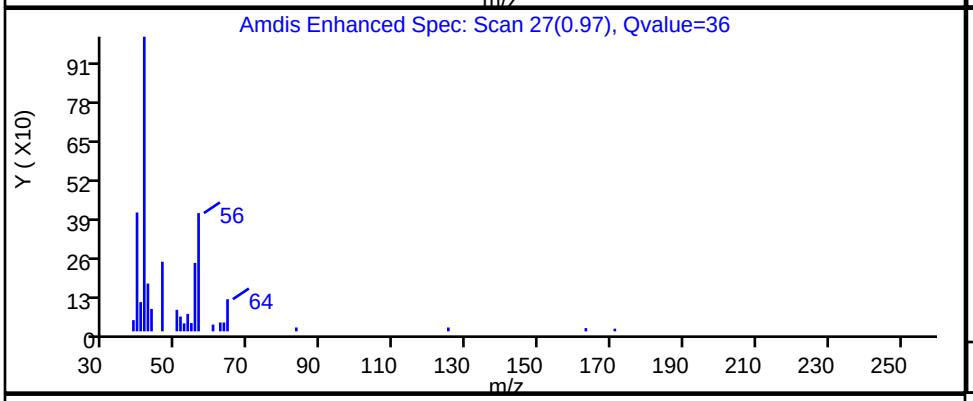
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47494.D				
Injection Date:	30-Jun-2018 23:43:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-3	Lab Sample ID:	460-159001-3		
Client ID:	PDI-12-WG-75-06202018				
Operator ID:		ALS Bottle#:	21	Worklist Smp#:	22
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

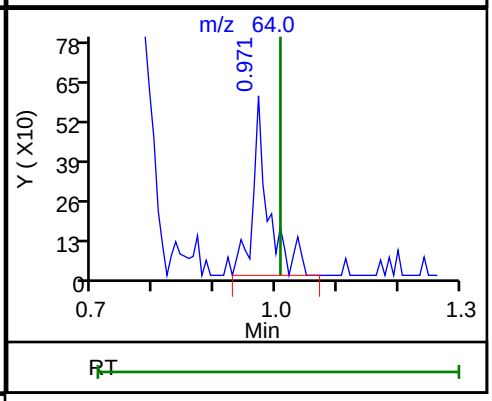
5 Vinyl chloride, CAS: 75-01-4

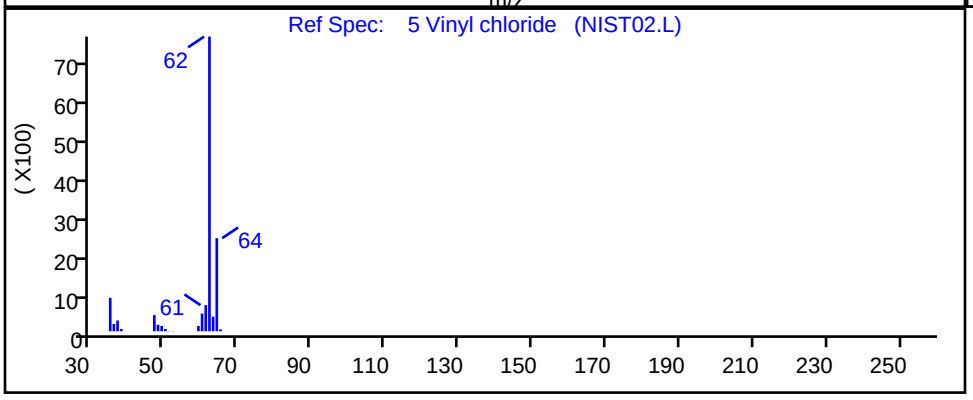
Processing Results











RT	Mass	Response	Amount
0.97	62.00	328	0.073817
0.97	64.00	1062	

Reviewer: moroneyc, 01-Jul-2018 07:50:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-FB-06212018 | Lab Sample ID: 460-159001-4

Matrix: Water | Lab File ID: P47489.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 21:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	7.5		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	14		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND	*	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-FB-06212018 | Lab Sample ID: 460-159001-4

Matrix: Water | Lab File ID: P47489.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:35

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 21:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	5.1		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	88		74-132
460-00-4	4-Bromofluorobenzene	89		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	90		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D
Lims ID: 460-159001-A-4
Client ID: PDI-FB-06212018
Sample Type: Client
Inject. Date: 30-Jun-2018 21:36:30 ALS Bottle#: 16 Worklist Smp#: 17
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-A-4
Misc. Info.: 460-0074647-017
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 07:53:11 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: sarmientod Date: 30-Jun-2018 23:28:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
23 Methylene Chloride	84	1.880	1.880	0.000	97	16469	5.13	
24 Acetone	43	1.909	1.902	0.007	86	13922	13.6	
* 29 TBA-d9 (IS)	65	2.052	2.059	-0.007	0	246798	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.026	0.000	96	120535	45.2	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	350443	250.0	
50 2-Butanone (MEK)	72	3.120	3.127	-0.007	99	3210	7.49	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	160327	43.9	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	503940	50.0	
* 72 1,4-Dioxane-d8	96	4.559	4.552	0.007	0	25609	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	474289	48.7	
91 2-Hexanone	43	6.816	6.794	0.022	89	3045	1.23	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	90	355688	50.0	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	88	124093	44.6	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	186202	50.0	

Reagents:

8260ISNEW_00123 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

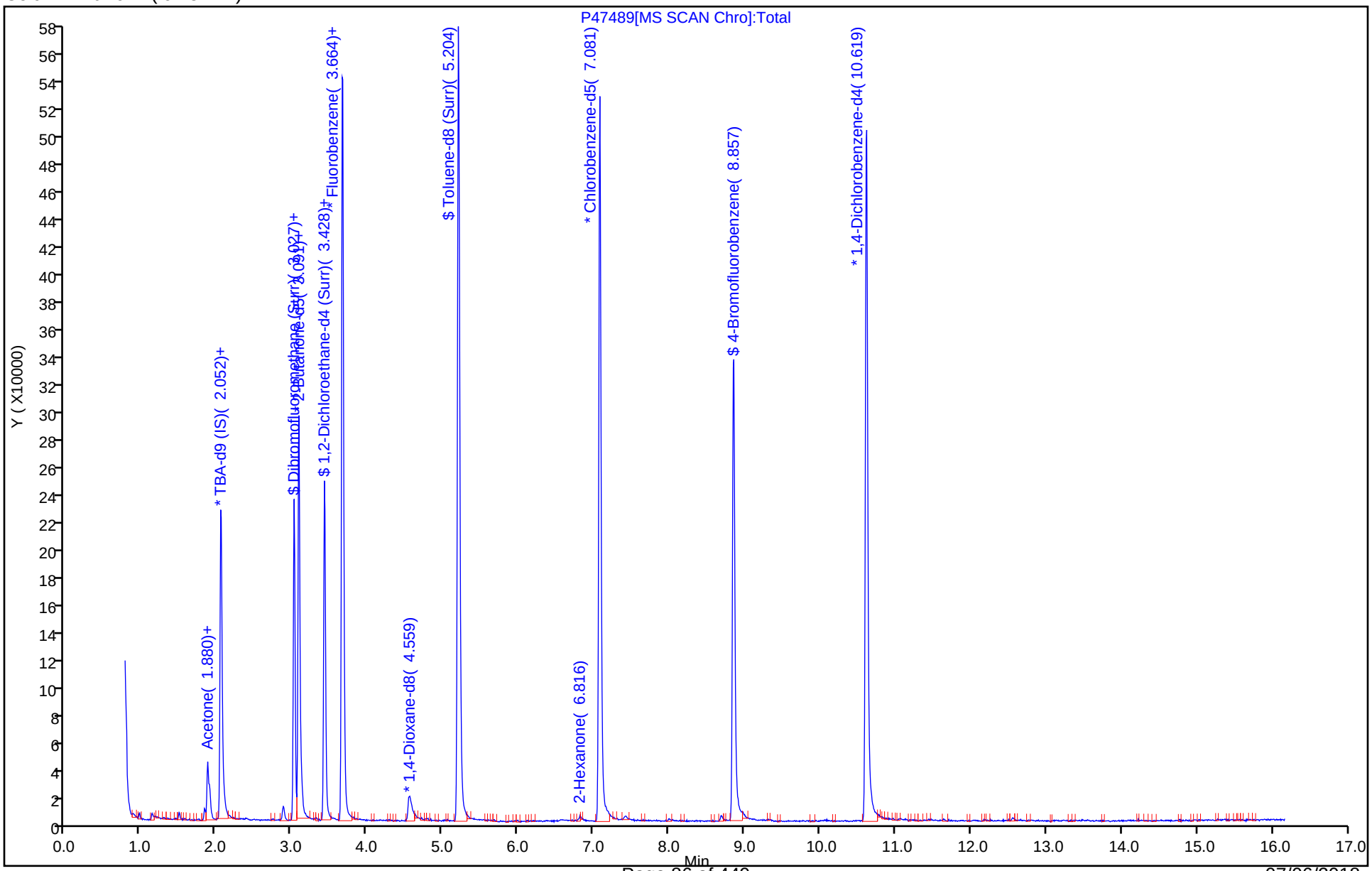
Report Date: 01-Jul-2018 07:55:22 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D

Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4	Worklist Smp#:	17
Client ID:	PDI-FB-06212018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	16
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

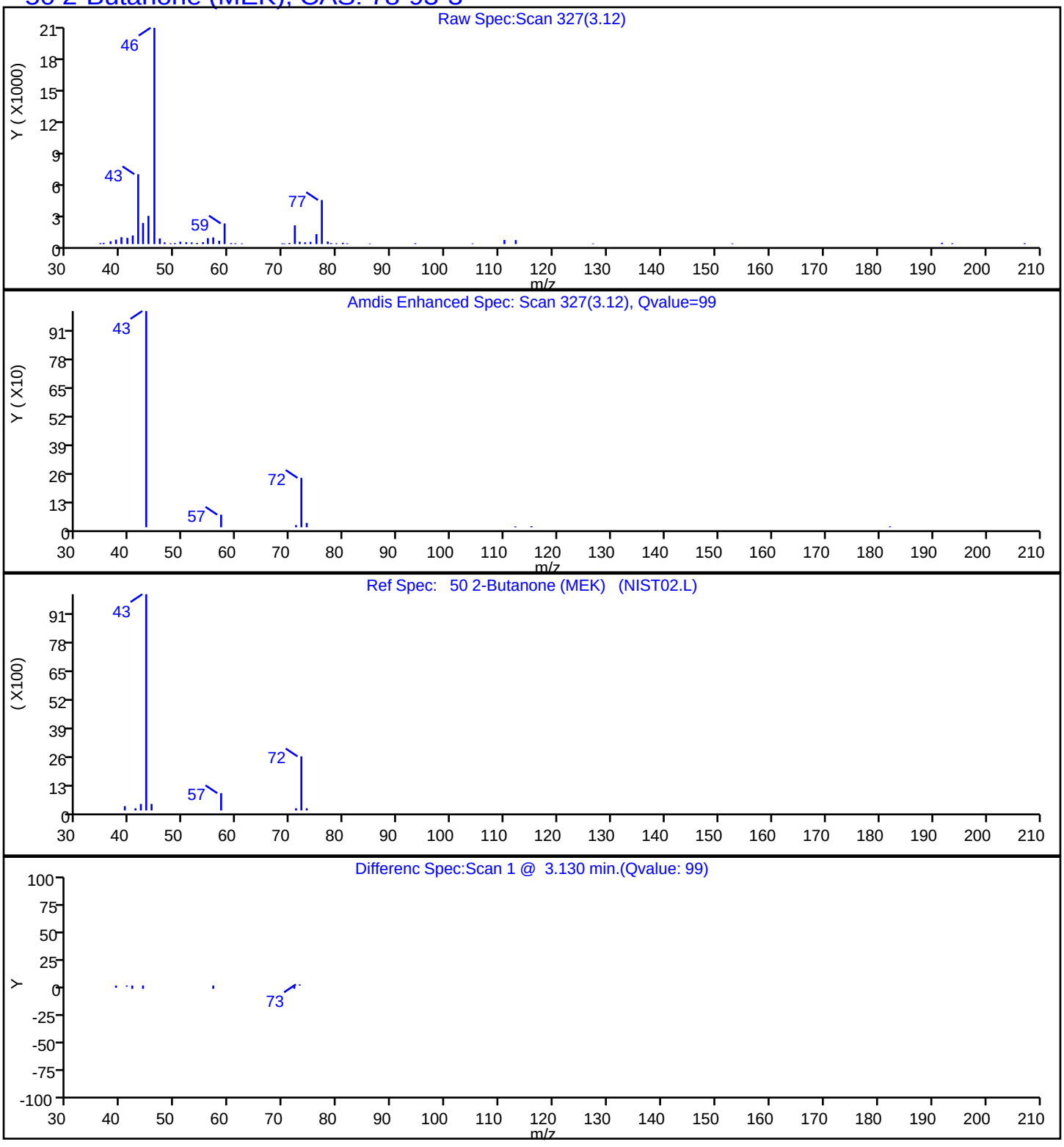
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D		
Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4
Client ID:	PDI-FB-06212018		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

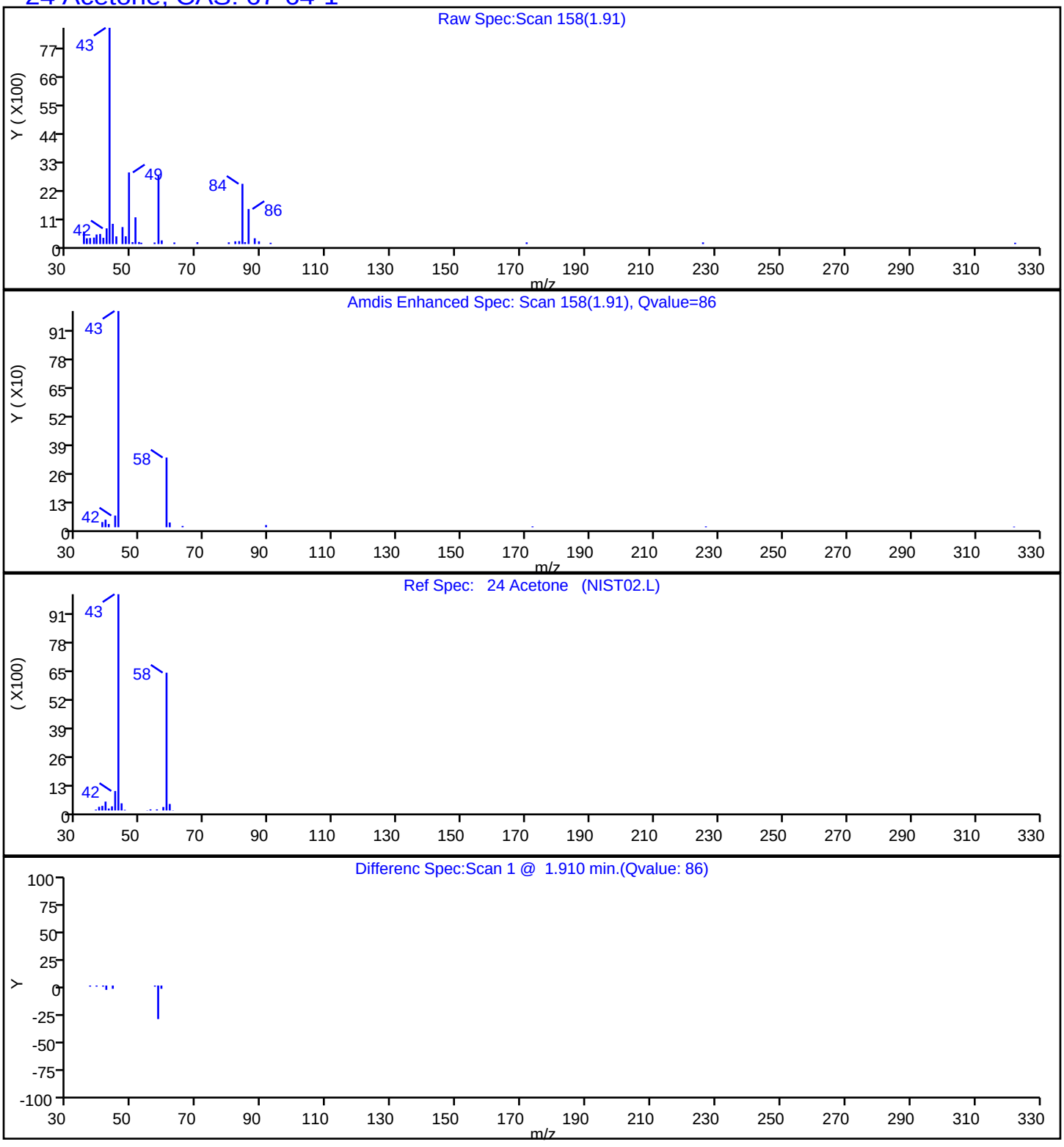
50 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D		
Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4
Client ID:	PDI-FB-06212018		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

24 Acetone, CAS: 67-64-1

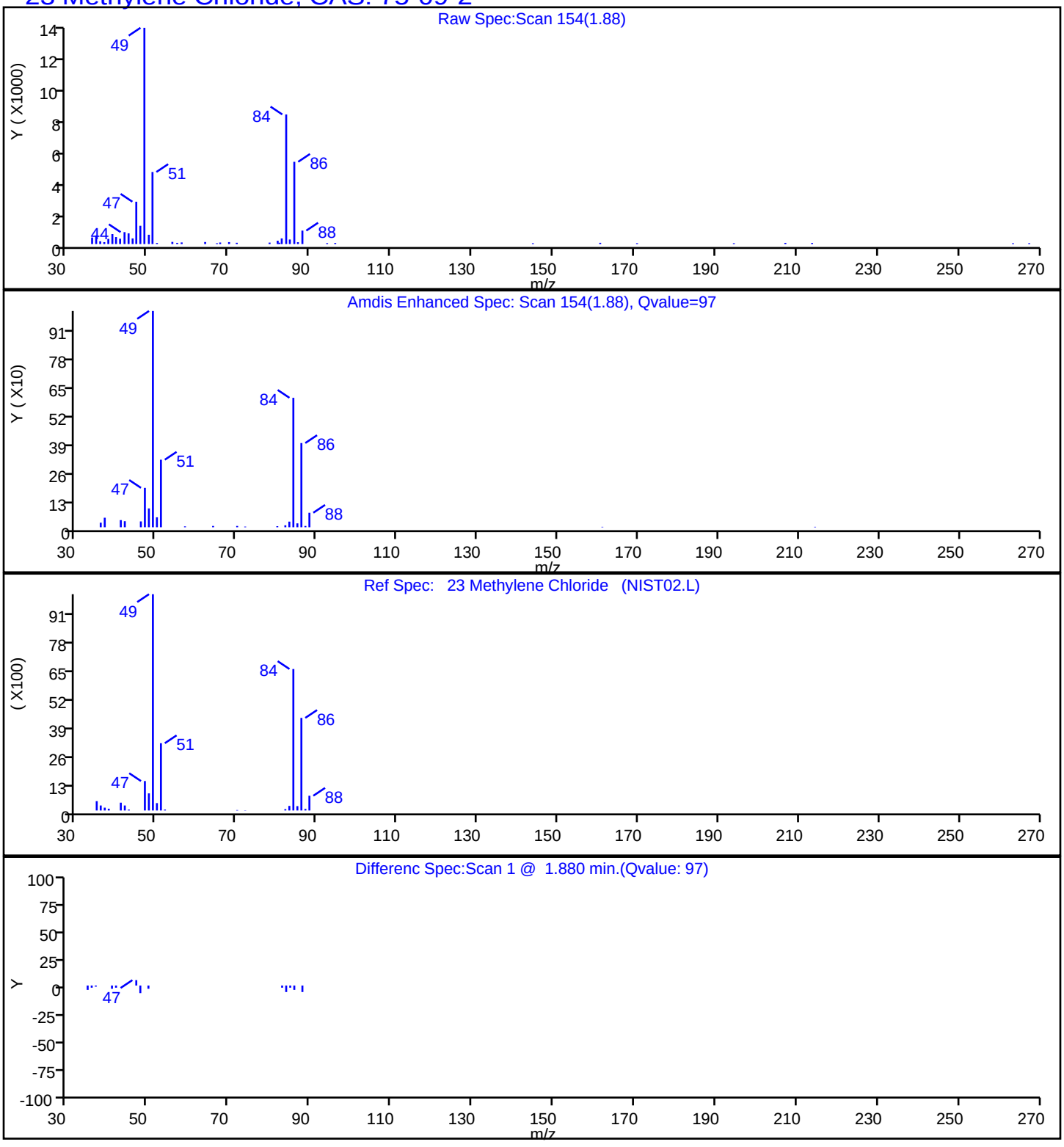


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D

Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4		
Client ID:	PDI-FB-06212018				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

23 Methylene Chloride, CAS: 75-09-2



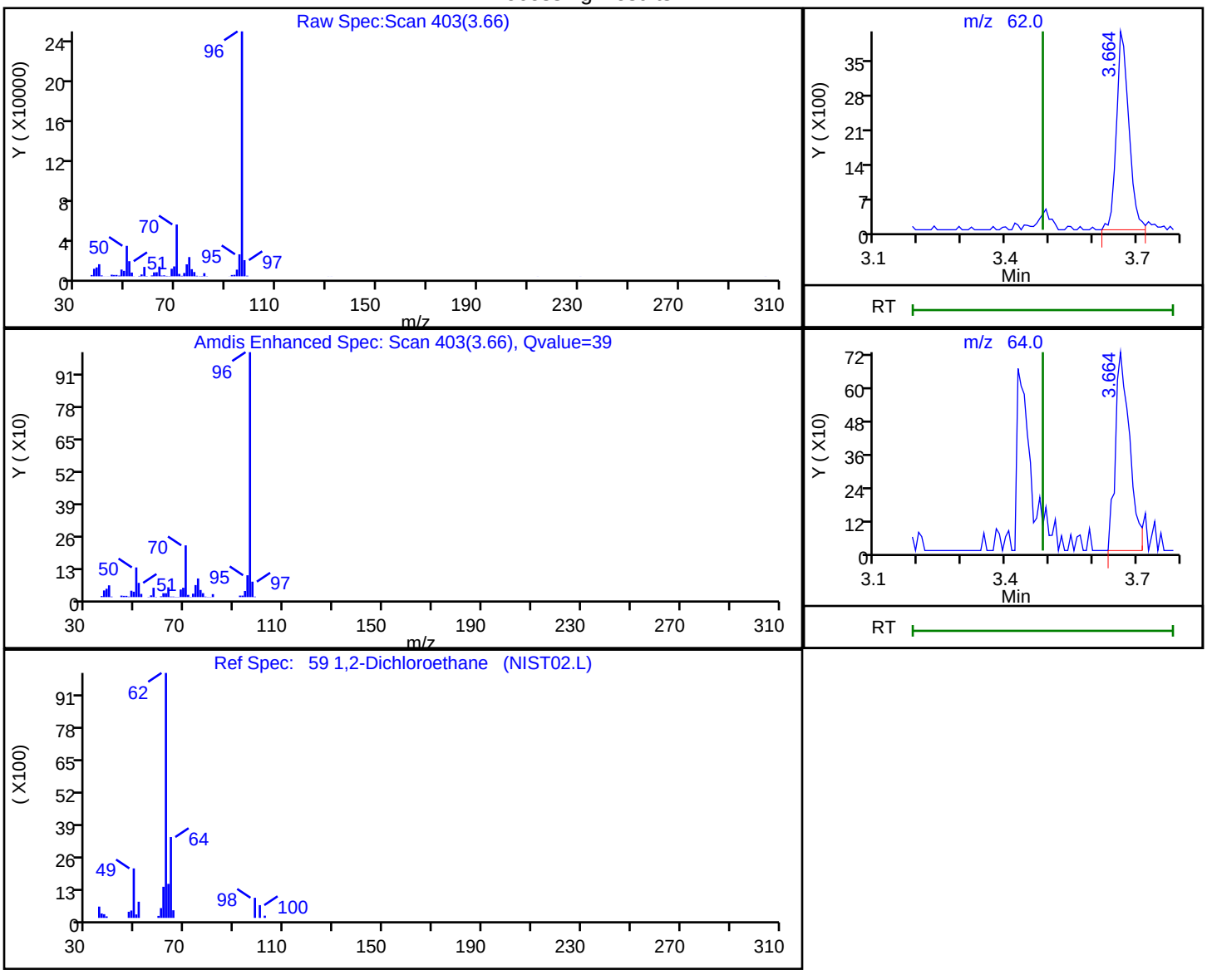
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D				
Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4		
Client ID:	PDI-FB-06212018				
Operator ID:		ALS Bottle#:	16	Worklist Smp#:	17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
3.66	62.00	8049	1.619504
3.66	64.00	1653	

Reviewer: moroneyc, 01-Jul-2018 07:48:24

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

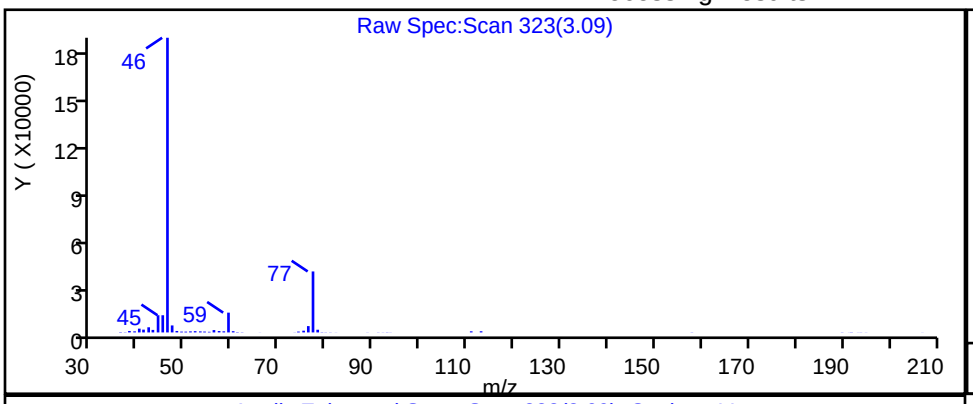
User Disabled Compound Report

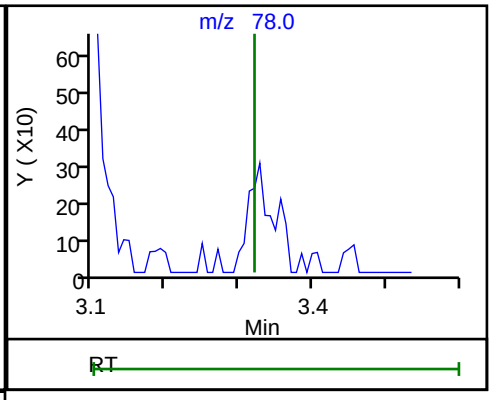
TestAmerica Edison

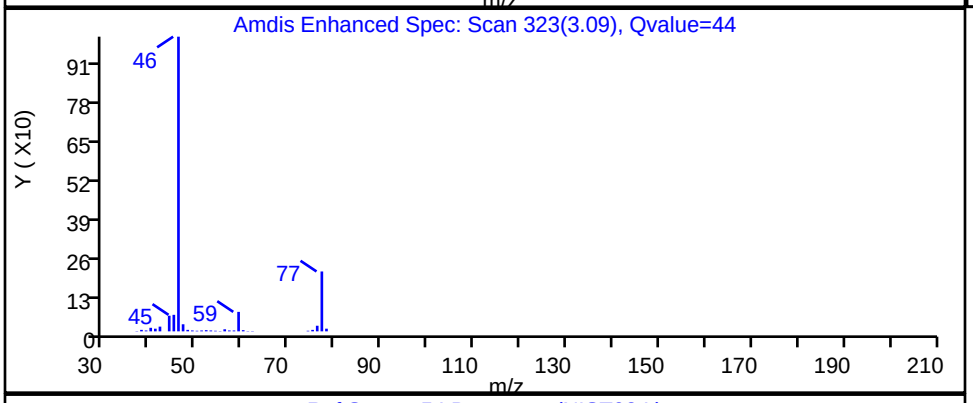
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47489.D		
Injection Date:	30-Jun-2018 21:36:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-A-4	Lab Sample ID:	460-159001-4
Client ID:	PDI-FB-06212018		
Operator ID:		ALS Bottle#:	16 Worklist Smp#: 17
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

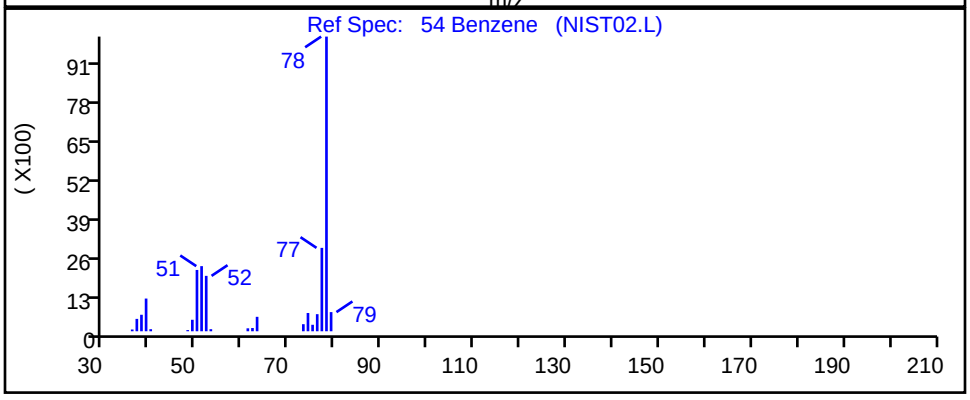
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.09	78.00	3142	0.278616

Reviewer: moroneyc, 01-Jul-2018 07:48:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-13-WG-75-06212018 | Lab Sample ID: 460-159001-5

Matrix: Water | Lab File ID: P47495.D

Analysis Method: 8260C | Date Collected: 06/21/2018 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2018 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	7.1		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND	*	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-13-WG-75-06212018 | Lab Sample ID: 460-159001-5

Matrix: Water | Lab File ID: P47495.D

Analysis Method: 8260C | Date Collected: 06/21/2018 13:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/01/2018 00:08

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.26	J	1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	8.5		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		74-132
460-00-4	4-Bromofluorobenzene	84		77-124
2037-26-5	Toluene-d8 (Surr)	91		80-120
1868-53-7	Dibromofluoromethane (Surr)	85		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D
Lims ID: 460-159001-B-5
Client ID: PDI-13-WG-75-06212018
Sample Type: Client
Inject. Date: 01-Jul-2018 00:08:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-5
Misc. Info.: 460-0074647-023
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:21:26 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: moroneyc Date: 01-Jul-2018 07:52:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
24 Acetone	43	1.909	1.902	0.007	89	7166	7.13	
* 29 TBA-d9 (IS)	65	2.053	2.060	-0.007	0	223740	1000.0	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	122998	42.4	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	344029	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	164042	41.3	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	547964	50.0	
65 Trichloroethene	130	3.815	3.815	0.000	97	28996	8.55	
* 72 1,4-Dioxane-d8	96	4.545	4.552	-0.007	0	26294	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	493360	45.7	
79 Toluene	91	5.262	5.262	0.000	90	4557	0.3328	
82 Tetrachloroethene	166	5.691	5.691	0.000	82	761	0.2646	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	394361	50.0	
98 Bromoform	173	8.084	8.055	0.029	14	608	0.3416	M
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	88	129709	42.1	
* 119 1,4-Dichlorobenzene-d4	152	10.620	10.612	0.008	97	201988	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260ISNEW_00123 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

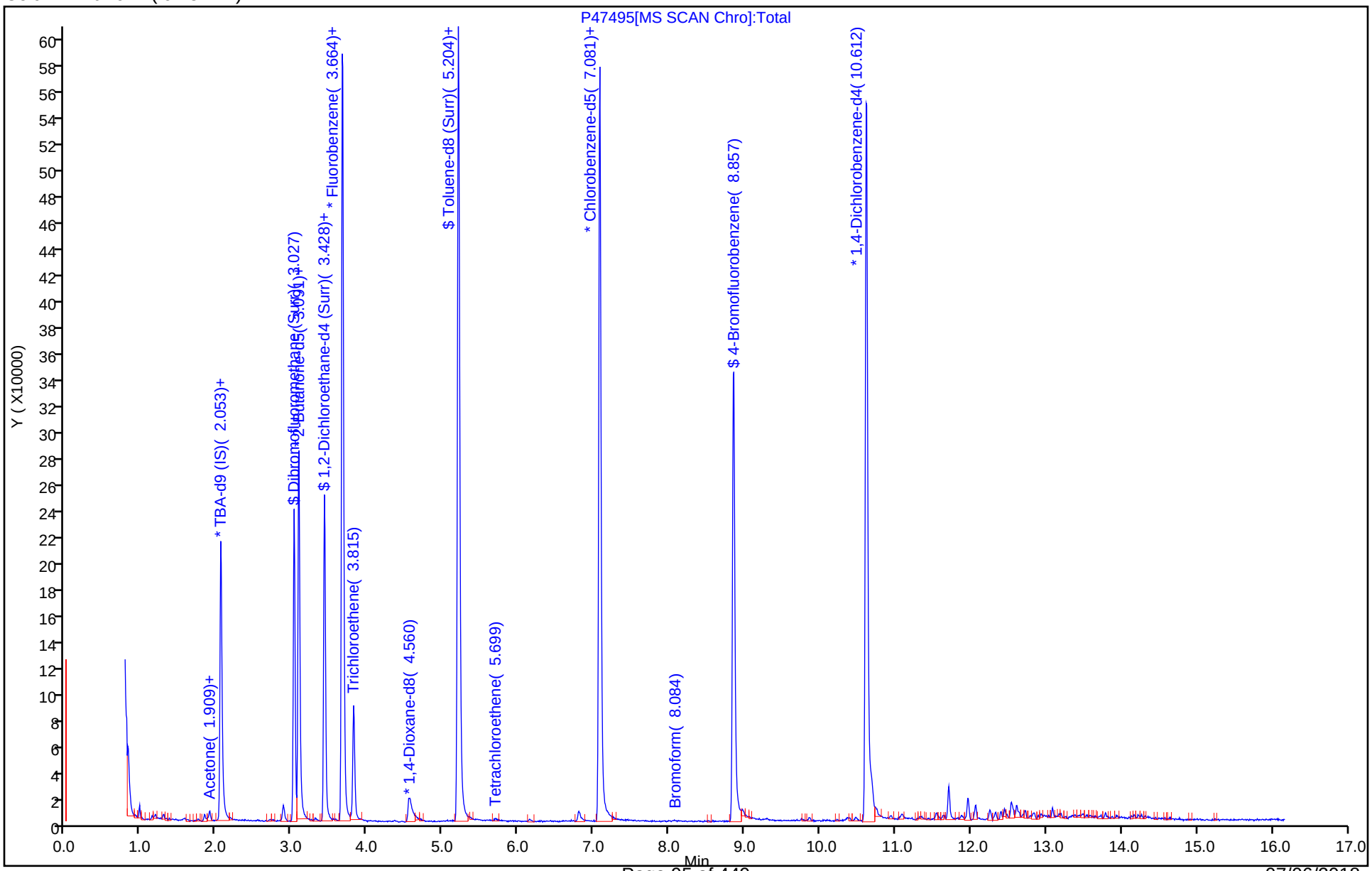
Report Date: 01-Jul-2018 14:21:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D

Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5	Worklist Smp#:	23
Client ID:	PDI-13-WG-75-06212018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

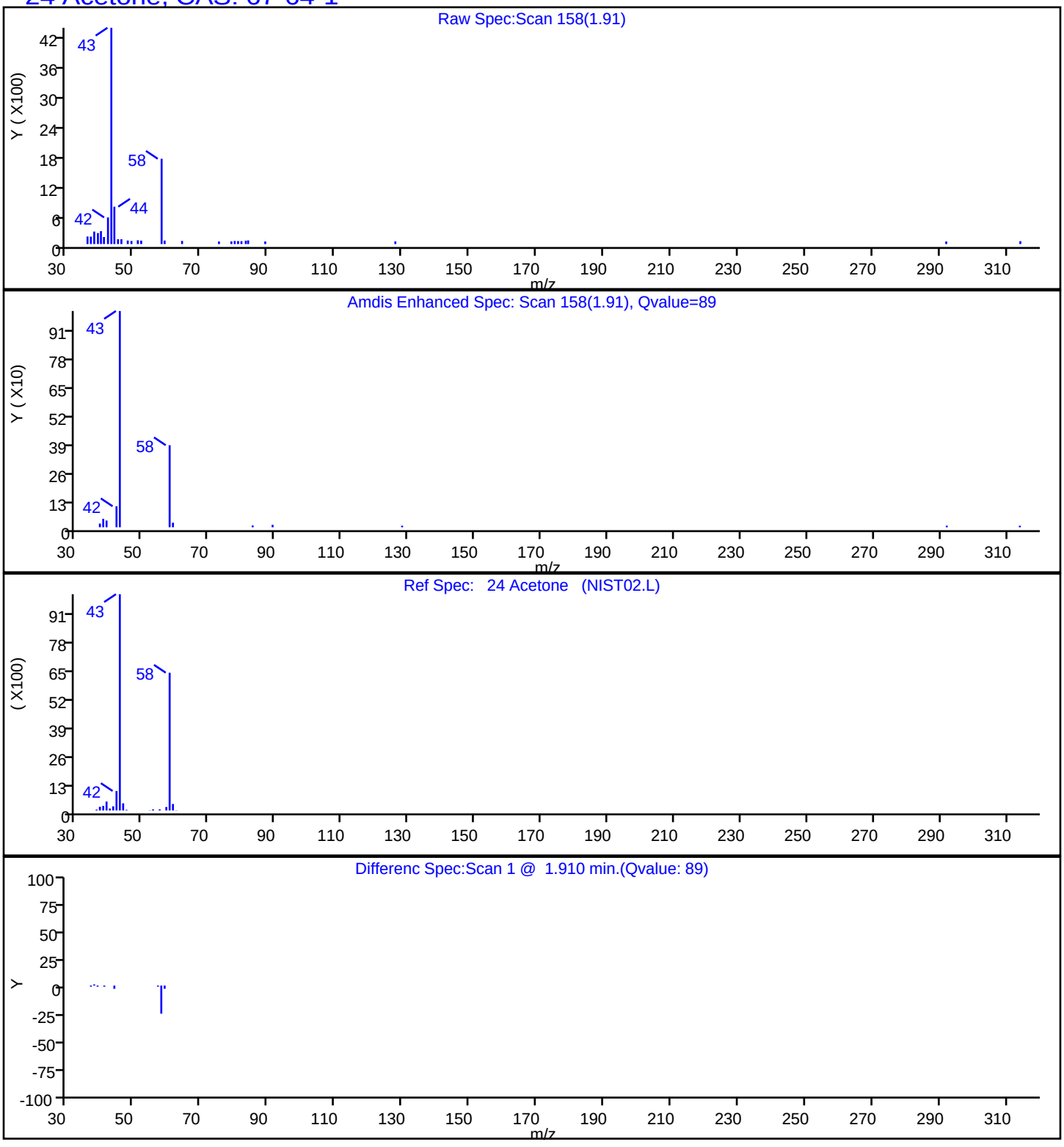
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D				
Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5		
Client ID:	PDI-13-WG-75-06212018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

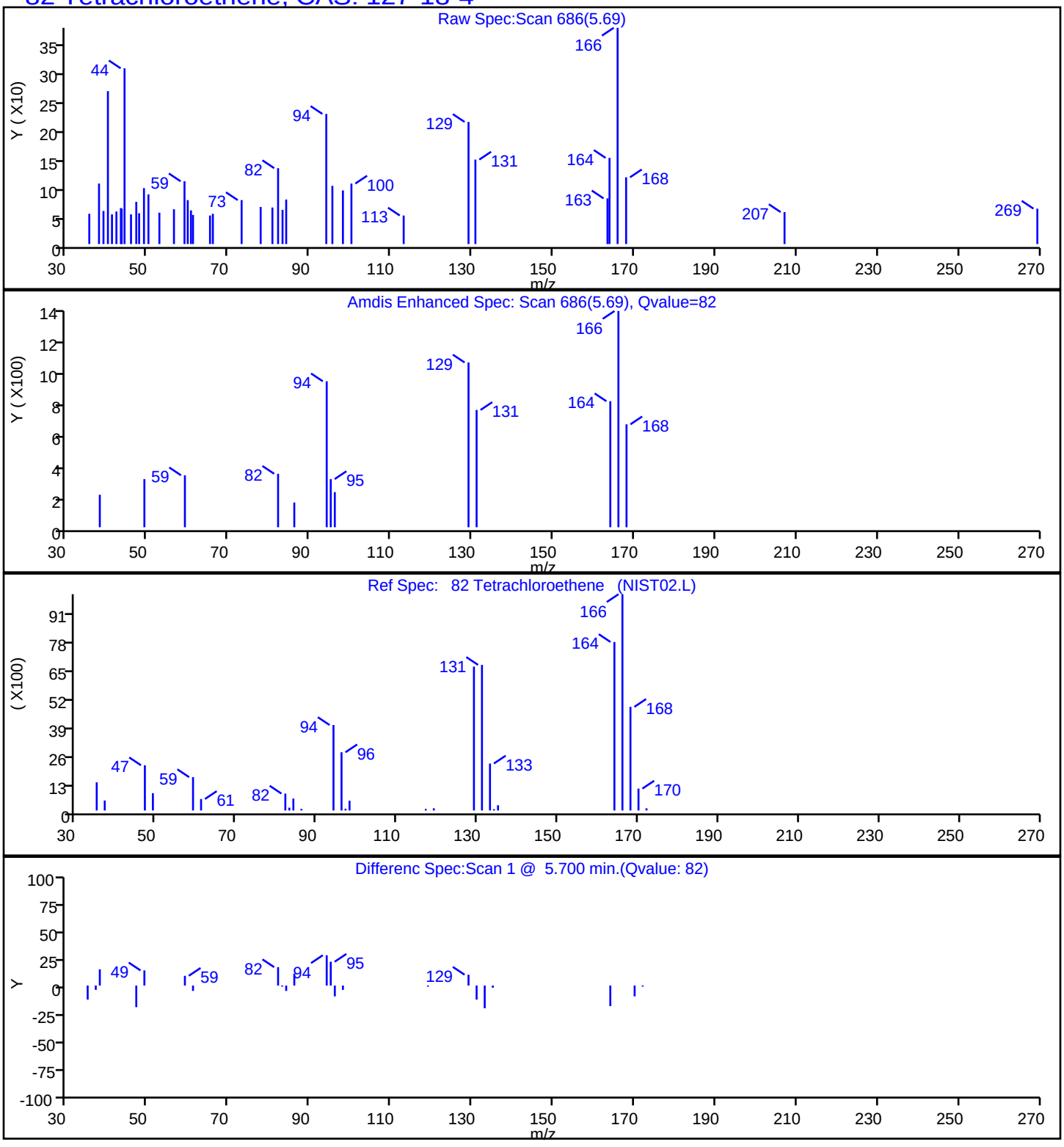
24 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D		
Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5
Client ID:	PDI-13-WG-75-06212018		
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

82 Tetrachloroethene, CAS: 127-18-4



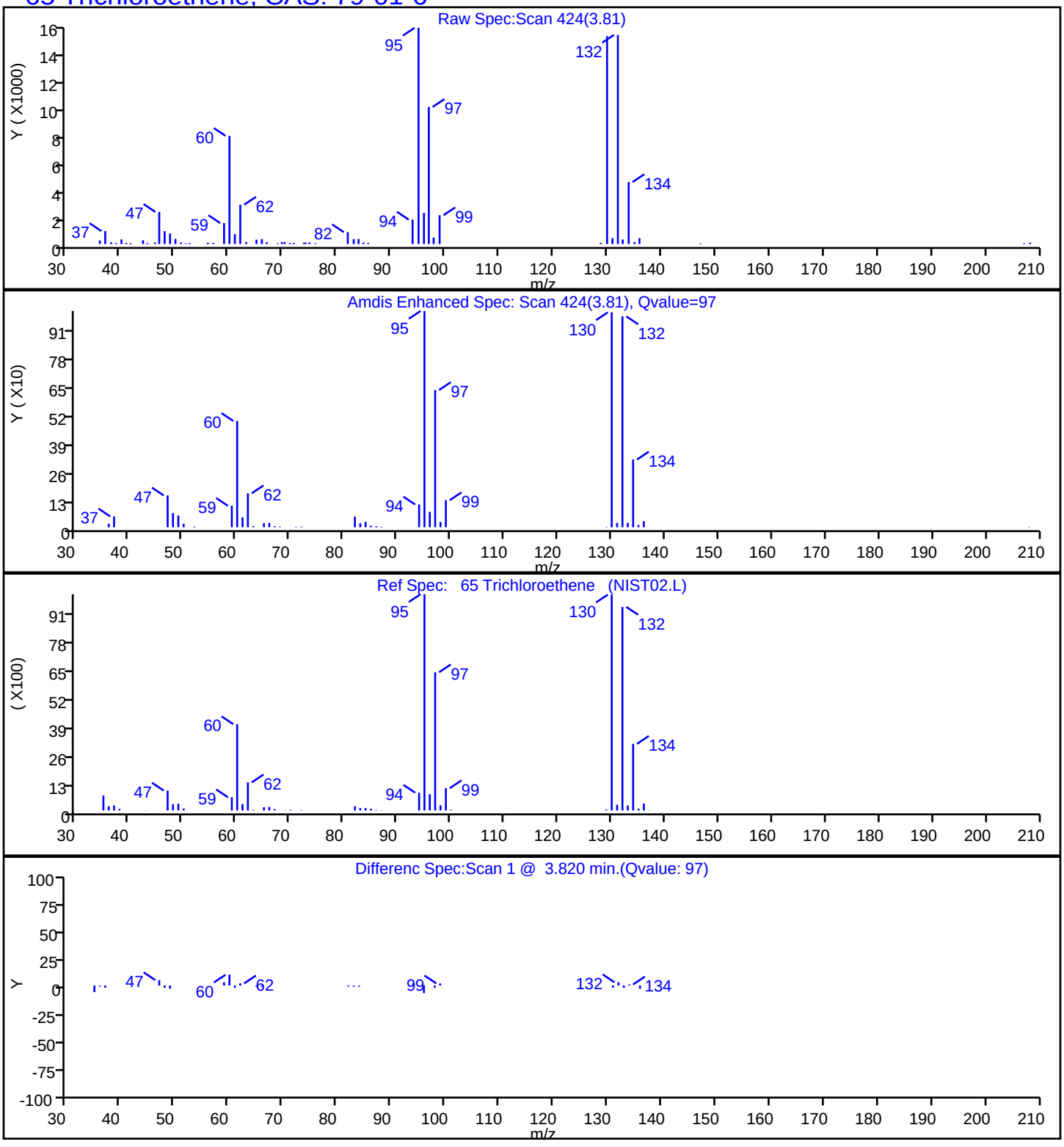
Report Date: 01-Jul-2018 14:21:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D

Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5		
Client ID:	PDI-13-WG-75-06212018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

65 Trichloroethene, CAS: 79-01-6



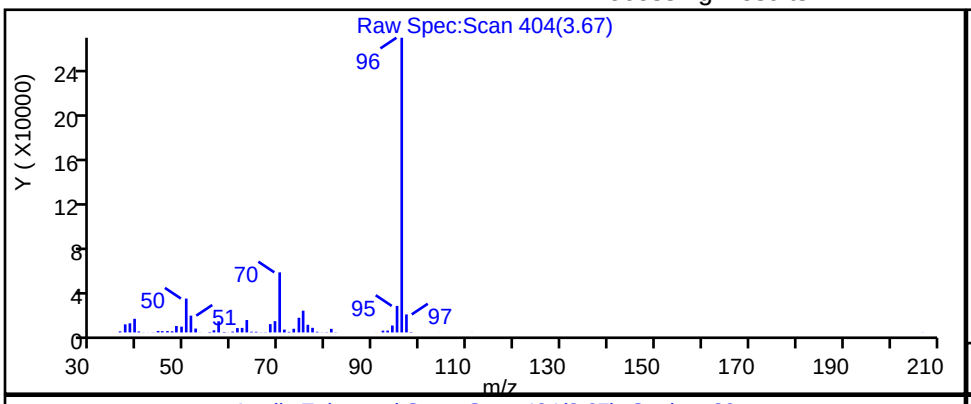
User Disabled Compound Report

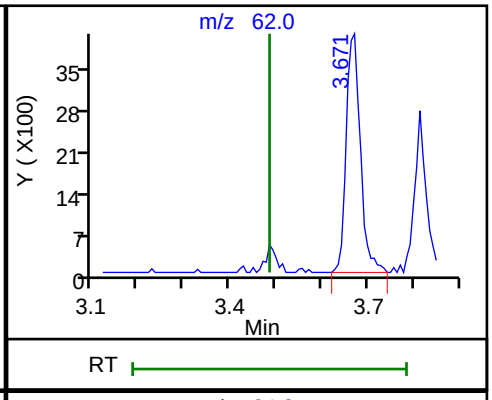
TestAmerica Edison

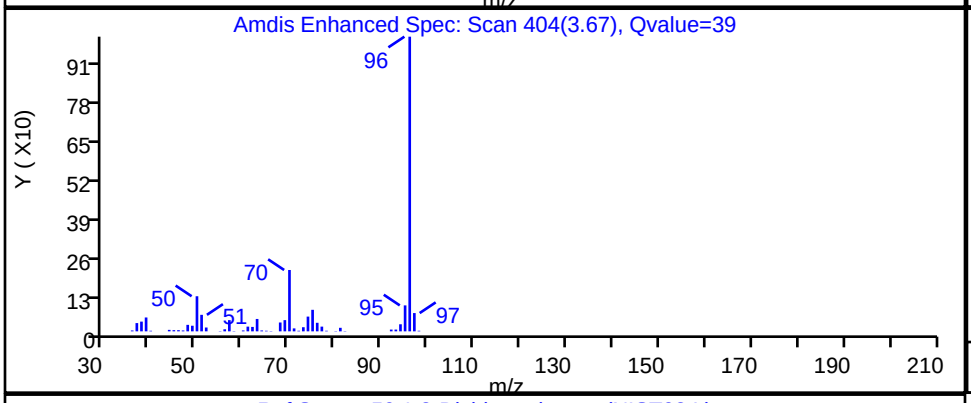
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D				
Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5		
Client ID:	PDI-13-WG-75-06212018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

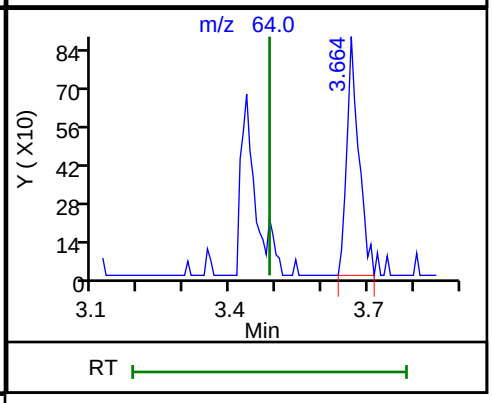
59 1,2-Dichloroethane, CAS: 107-06-2

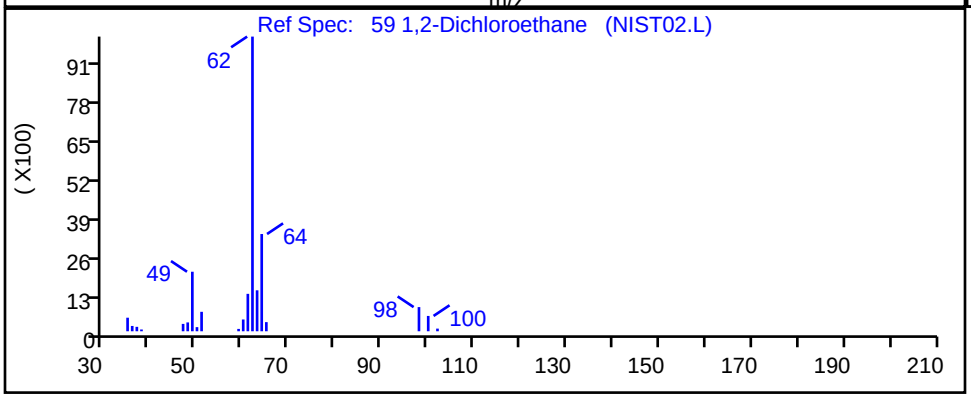
Processing Results











RT	Mass	Response	Amount
3.67	62.00	8841	1.635944
3.66	64.00	1605	

Reviewer: moroneyc, 01-Jul-2018 07:52:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

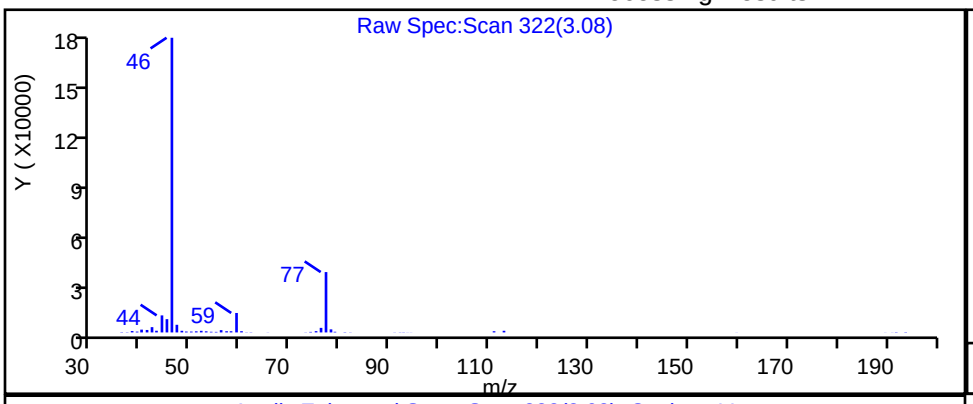
User Disabled Compound Report

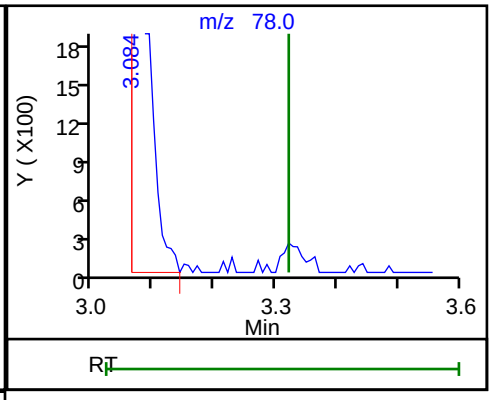
TestAmerica Edison

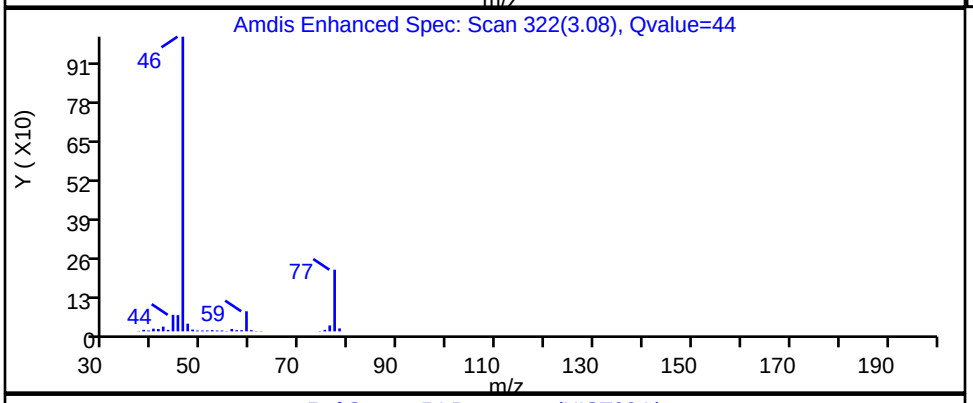
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D				
Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5		
Client ID:	PDI-13-WG-75-06212018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

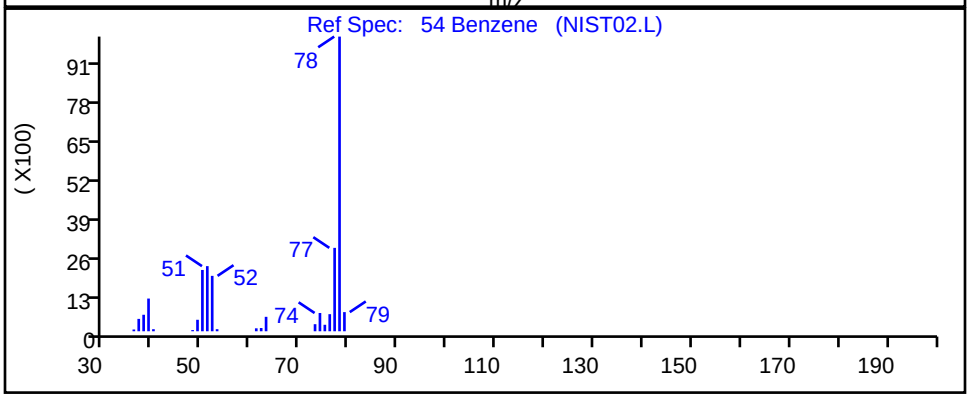
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.08	78.00	3286	0.262811

Reviewer: moroneyc, 01-Jul-2018 07:52:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

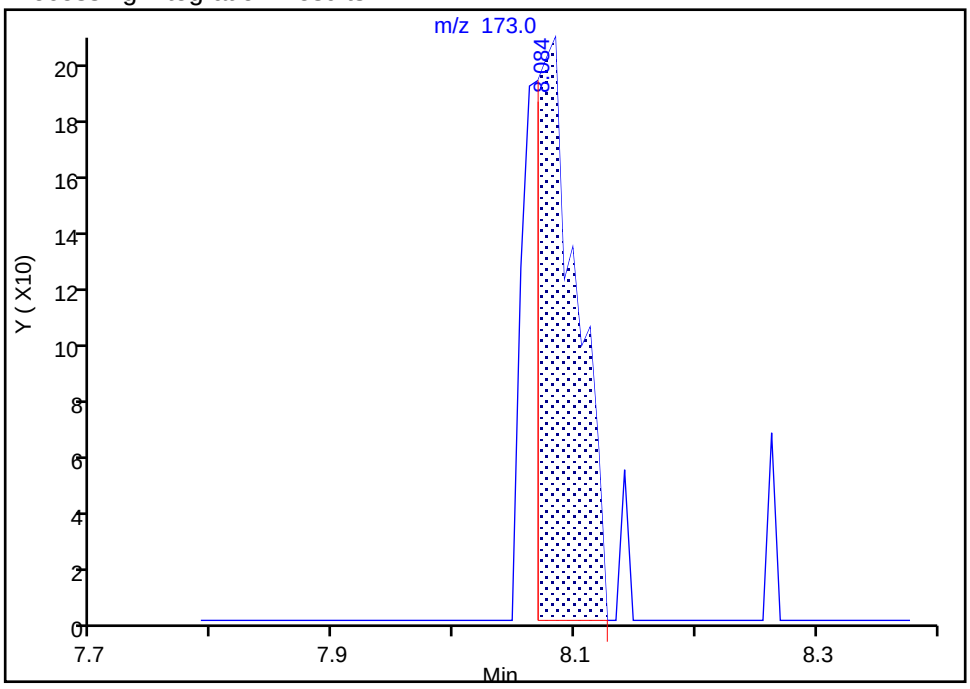
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47495.D				
Injection Date:	01-Jul-2018 00:08:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-5	Lab Sample ID:	460-159001-5		
Client ID:	PDI-13-WG-75-06212018				
Operator ID:		ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

98 Bromoform, CAS: 75-25-2

Signal: 1

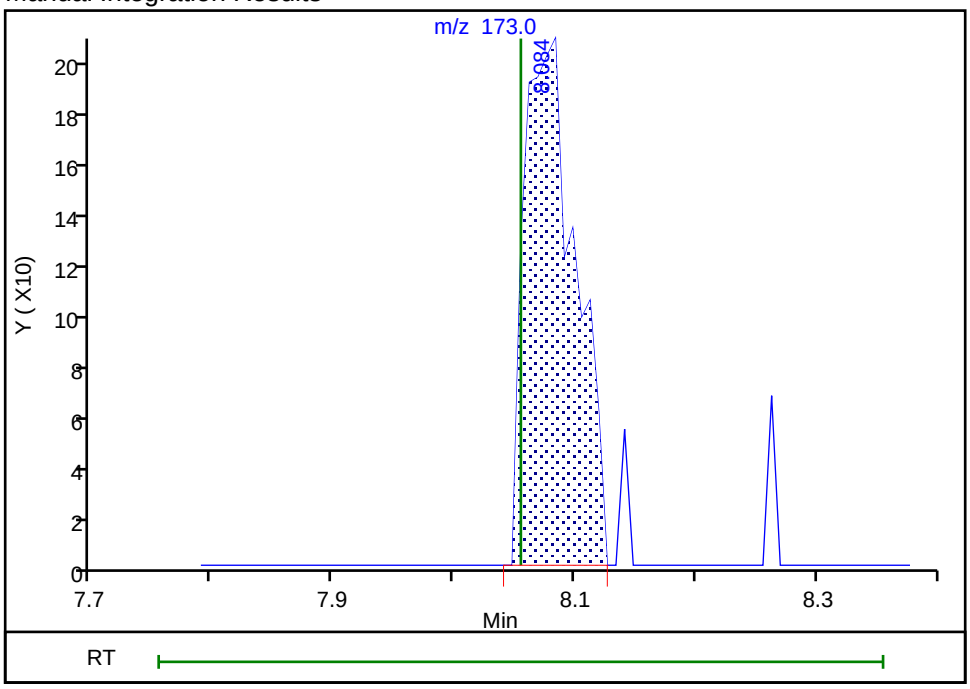
Processing Integration Results

RT: 8.08
Area: 474
Amount: 0.266322
Amount Units: ug/l



Manual Integration Results

RT: 8.08
Area: 608
Amount: 0.341611
Amount Units: ug/l



Reviewer: xuyvo, 01-Jul-2018 14:21:19

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-13-SO-53-06212018 | Lab Sample ID: 460-159001-6

Matrix: Solid | Lab File ID: D52046.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:20

Sample wt/vol: 7.516(g) | Date Analyzed: 07/01/2018 01:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.6 | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.82	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.82	0.17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25
79-00-5	1,1,2-Trichloroethane	ND		0.82	0.15
75-34-3	1,1-Dichloroethane	ND		0.82	0.17
75-35-4	1,1-Dichloroethene	ND		0.82	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		0.82	0.075
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.82	0.38
95-50-1	1,2-Dichlorobenzene	ND		0.82	0.12
107-06-2	1,2-Dichloroethane	ND		0.82	0.24
78-87-5	1,2-Dichloropropane	ND		0.82	0.35
541-73-1	1,3-Dichlorobenzene	ND		0.82	0.13
106-46-7	1,4-Dichlorobenzene	ND		0.82	0.082
78-93-3	2-Butanone (MEK)	2.3	J	4.1	0.91
591-78-6	2-Hexanone	ND		4.1	0.64
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.1	0.54
67-64-1	Acetone	15		4.1	3.1
71-43-2	Benzene	ND		0.82	0.21
75-25-2	Bromoform	ND		0.82	0.35
74-83-9	Bromomethane	ND		0.82	0.39
75-15-0	Carbon disulfide	ND		0.82	0.22
56-23-5	Carbon tetrachloride	ND		0.82	0.15
108-90-7	Chlorobenzene	ND		0.82	0.14
124-48-1	Dibromochloromethane	ND		0.82	0.16
75-00-3	Chloroethane	ND		0.82	0.43
67-66-3	Chloroform	ND		0.82	0.26
74-87-3	Chloromethane	ND		0.82	0.36
156-59-2	cis-1,2-Dichloroethene	1.1		0.82	0.12
110-82-7	Cyclohexane	ND		0.82	0.18
75-27-4	Bromodichloromethane	ND		0.82	0.21
75-71-8	Dichlorodifluoromethane	ND		0.82	0.28
100-41-4	Ethylbenzene	ND		0.82	0.16
106-93-4	1,2-Dibromoethane	ND		0.82	0.15
98-82-8	Isopropylbenzene	ND		0.82	0.10
79-20-9	Methyl acetate	ND		4.1	3.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-13-SO-53-06212018 | Lab Sample ID: 460-159001-6

Matrix: Solid | Lab File ID: D52046.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:20

Sample wt/vol: 7.516(g) | Date Analyzed: 07/01/2018 01:28

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 18.6 | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.82	0.10
108-87-2	Methylcyclohexane	ND		0.82	0.13
75-09-2	Methylene Chloride	0.52	J	0.82	0.13
127-18-4	Tetrachloroethene	0.80	J	0.82	0.12
108-88-3	Toluene	ND		0.82	0.51
156-60-5	trans-1,2-Dichloroethene	ND		0.82	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.82	0.22
79-01-6	Trichloroethene	27		0.82	0.12
75-69-4	Trichlorofluoromethane	ND		0.82	0.33
75-01-4	Vinyl chloride	ND		0.82	0.45
1330-20-7	Xylenes, Total	0.36	J	1.6	0.21
10061-01-5	cis-1,3-Dichloropropene	ND		0.82	0.22
100-42-5	Styrene	ND		0.82	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		78-135
460-00-4	4-Bromofluorobenzene	88		67-126
2037-26-5	Toluene-d8 (Surr)	100		73-121
1868-53-7	Dibromofluoromethane (Surr)	103		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D
Lims ID: 460-159001-B-6-A
Client ID: PDI-13-SO-53-06212018
Sample Type: Client
Inject. Date: 01-Jul-2018 01:28:30 ALS Bottle#: 20 Worklist Smp#: 21
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-6-A
Misc. Info.: 460-0074660-021
Operator ID: Instrument ID: CVOAMS4

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 10:08:40 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: tupayachia Date: 01-Jul-2018 10:05:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.112	3.118	-0.006	89	11941	18.4	
26 Methylene Chloride	84	3.539	3.551	-0.012	91	1985	0.6420	
* 27 TBA-d9 (IS)	65	3.557	3.569	-0.012	81	363848	1000.0	
* 38 2-Butanone-d5	46	4.850	4.856	-0.006	0	243067	250.0	
40 cis-1,2-Dichloroethene	96	4.892	4.904	-0.012	97	4309	1.31	
41 2-Butanone (MEK)	72	4.917	4.929	-0.012	98	741	2.79	
$ 51 Dibromofluoromethane (Surr	113	5.441	5.447	-0.006	98	152322	51.3	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.868	5.874	-0.006	96	129018	50.0	
* 61 Fluorobenzene	96	6.209	6.209	0.000	100	500348	50.0	
63 Trichloroethene	95	6.648	6.654	-0.006	95	86842	32.9	
* 67 1,4-Dioxane-d8	96	7.056	7.056	0.000	0	32131	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	449020	49.8	
83 Tetrachloroethene	166	8.556	8.556	0.000	93	2766	0.9829	
* 89 Chlorobenzene-d5	117	9.337	9.336	0.000	83	339687	50.0	
93 m-Xylene & p-Xylene	106	9.519	9.525	-0.006	97	1413	0.3440	
95 o-Xylene	106	9.849	9.849	0.000	91	409	0.1015	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	159229	43.9	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	93	207643	50.0	
S 132 Xylenes, Total	100				0		0.4455	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00175 Amount Added: 1.00 Units: uL Run Reagent

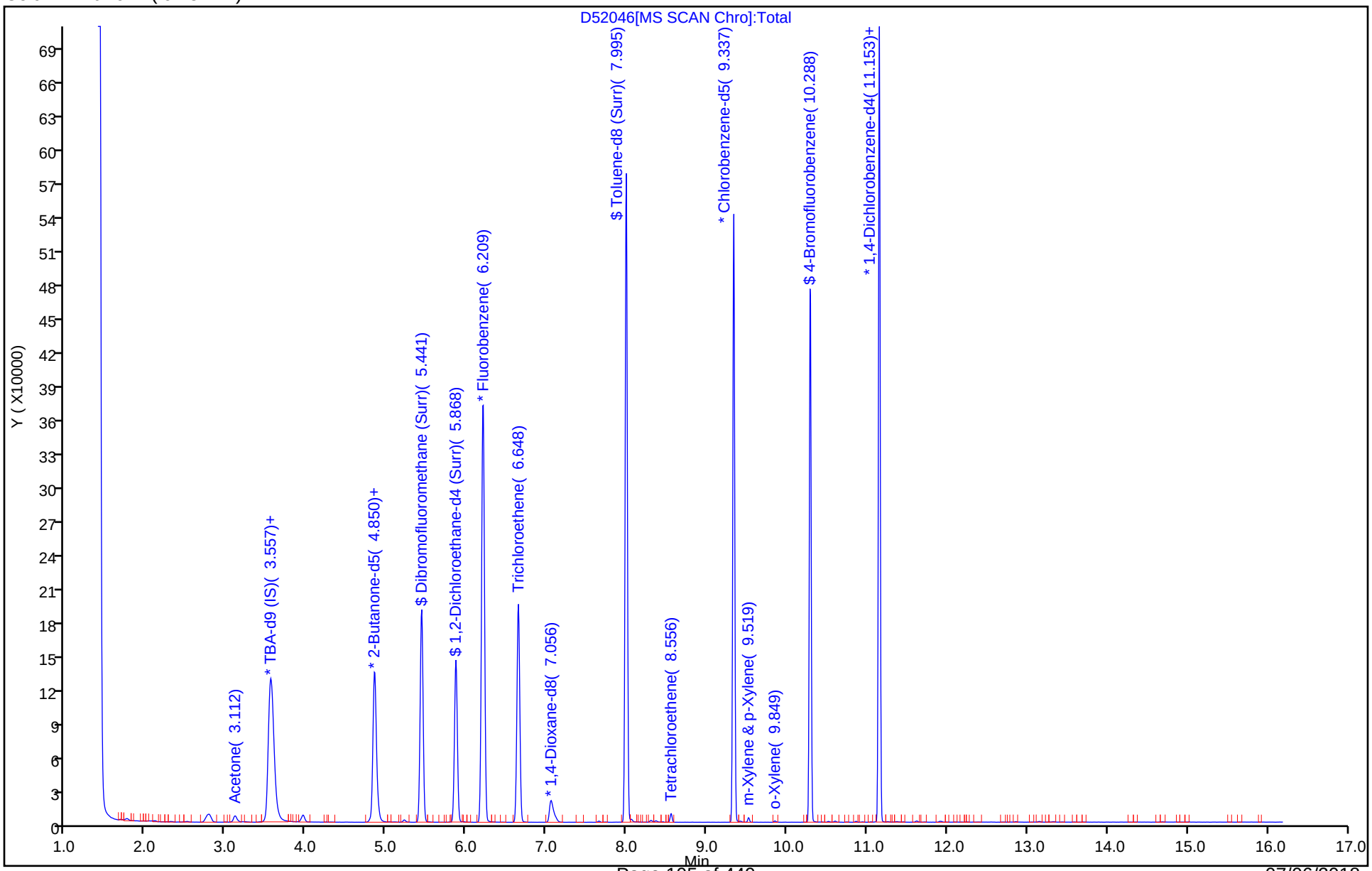
Report Date: 01-Jul-2018 10:14:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D

Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6	Worklist Smp#:	21
Client ID:	PDI-13-SO-53-06212018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	20
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

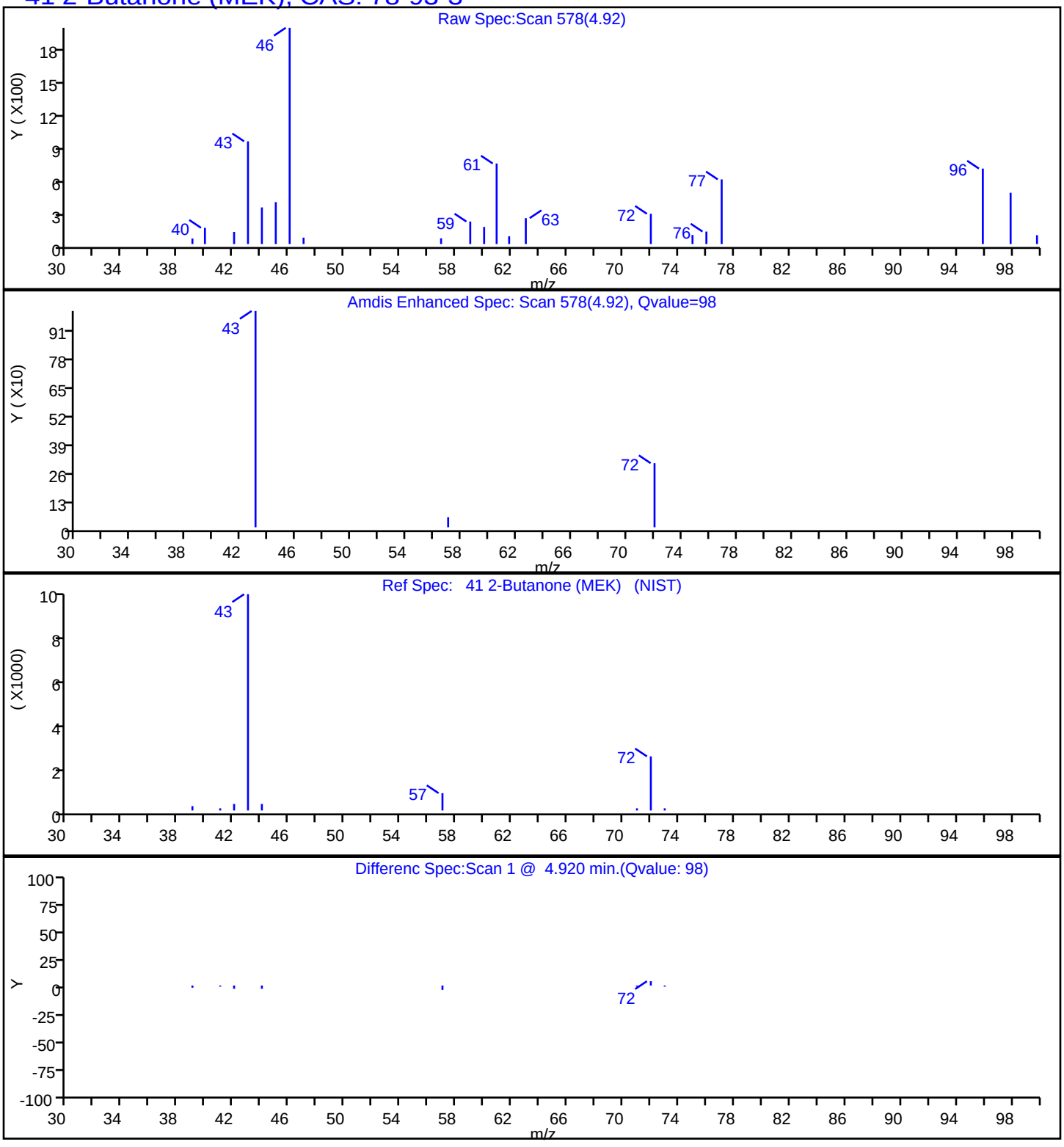
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D				
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

41 2-Butanone (MEK), CAS: 78-93-3

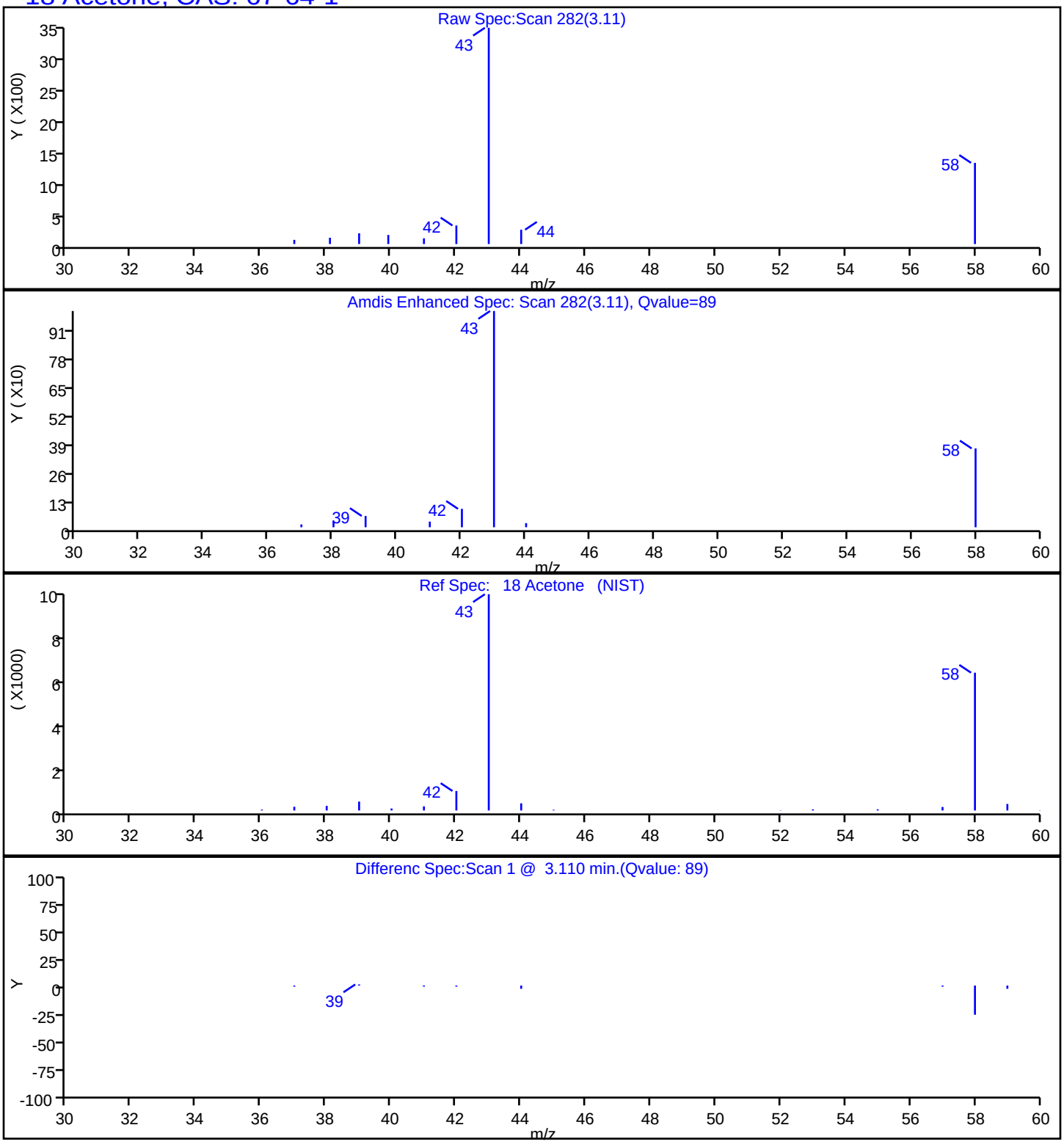


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D

Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6
Client ID:	PDI-13-SO-53-06212018		
Operator ID:		ALS Bottle#:	20 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

18 Acetone, CAS: 67-64-1

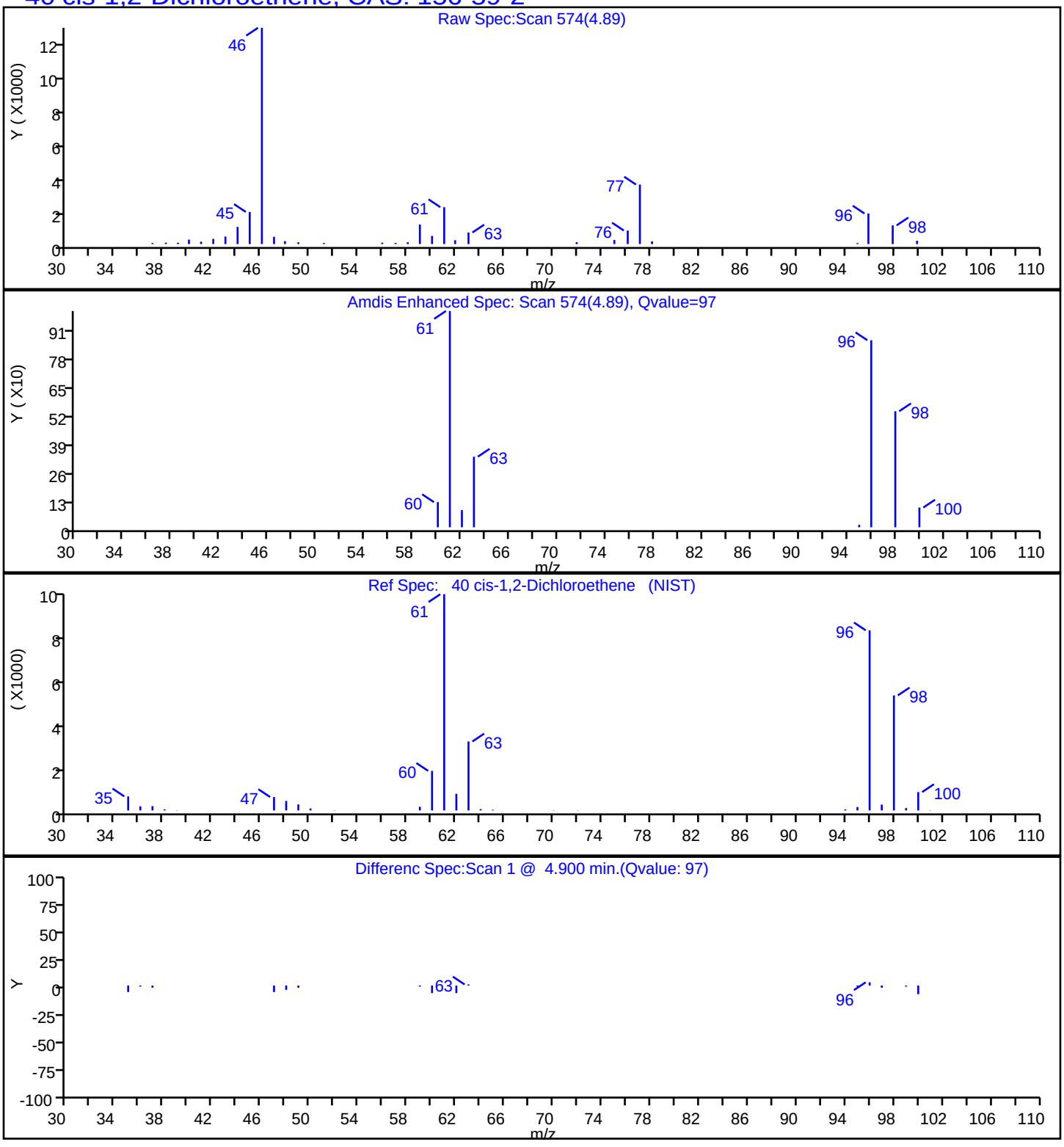


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D

Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

40 cis-1,2-Dichloroethene, CAS: 156-59-2

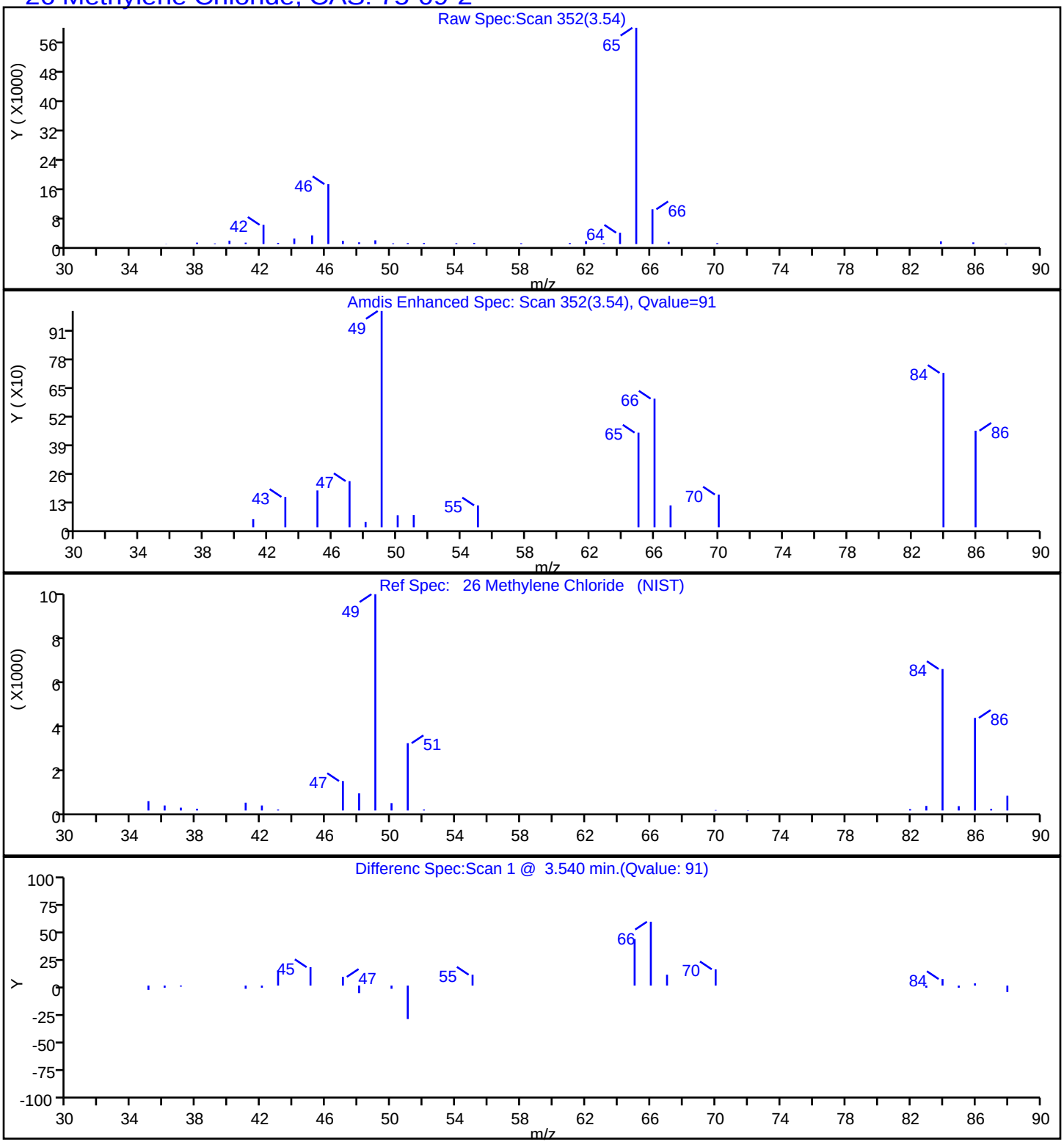


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D

Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

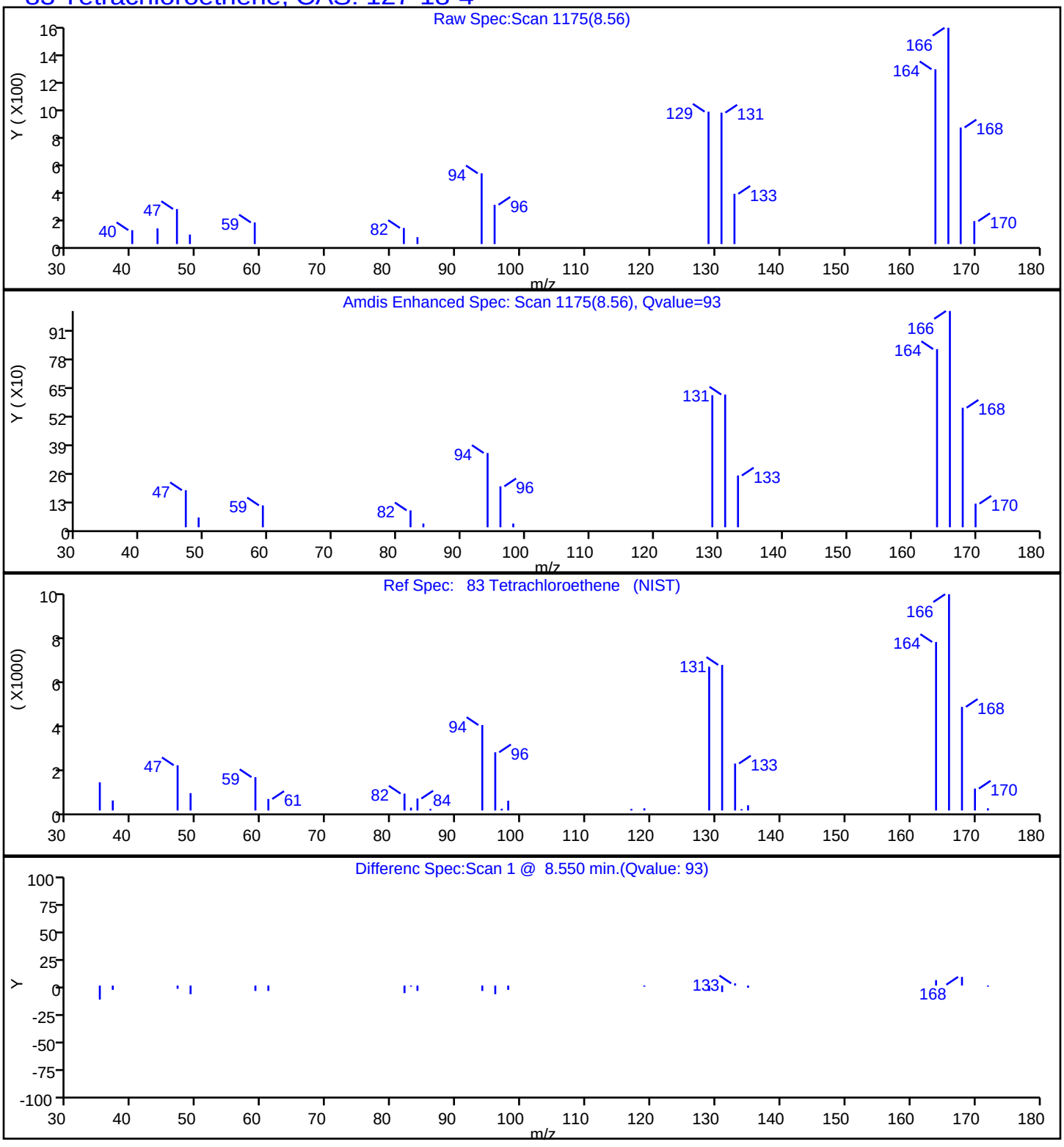
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D		
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6
Client ID:	PDI-13-SO-53-06212018		
Operator ID:		ALS Bottle#:	20 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

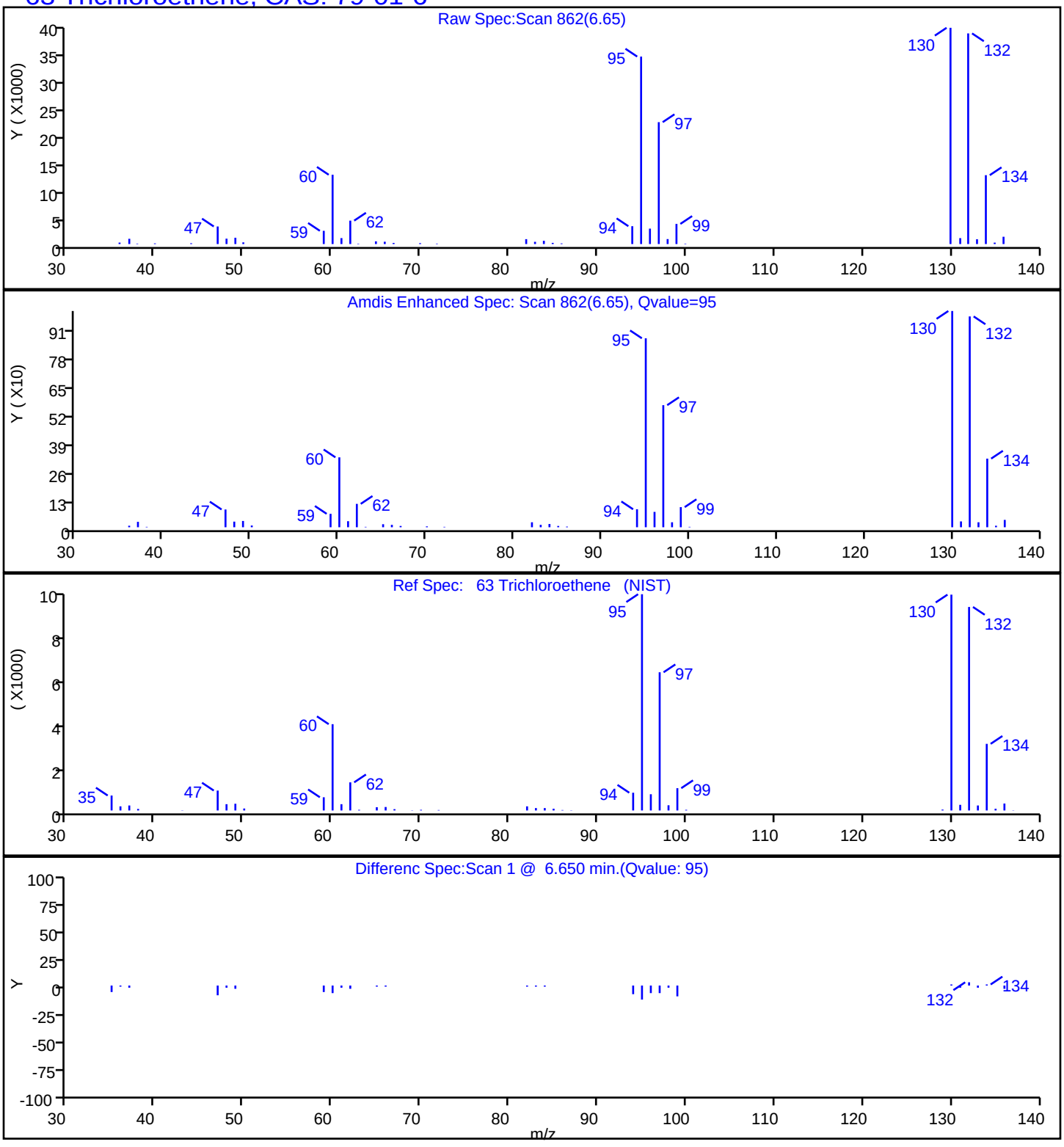
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D				
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

63 Trichloroethene, CAS: 79-01-6



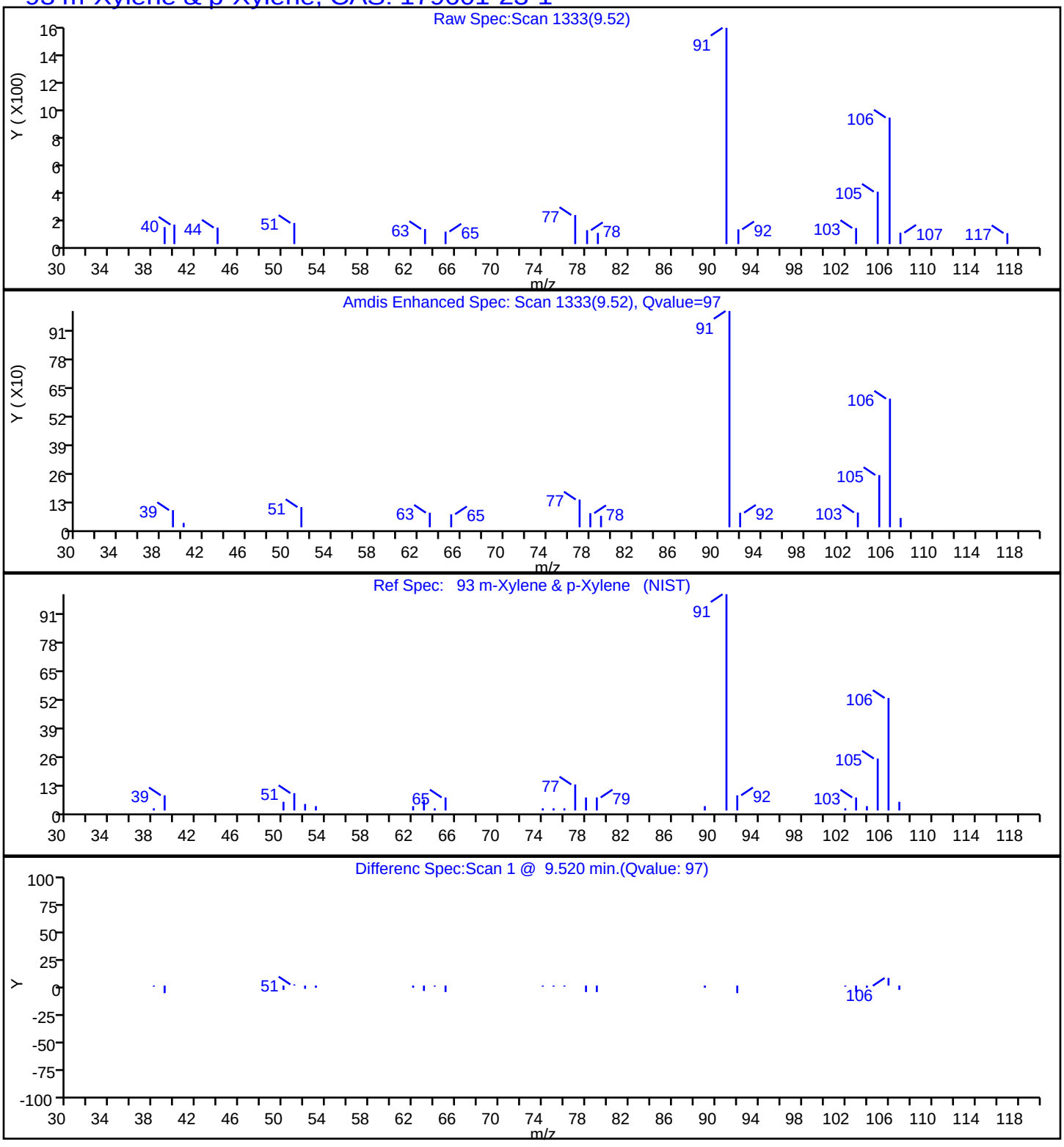
Report Date: 01-Jul-2018 10:14:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D

Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

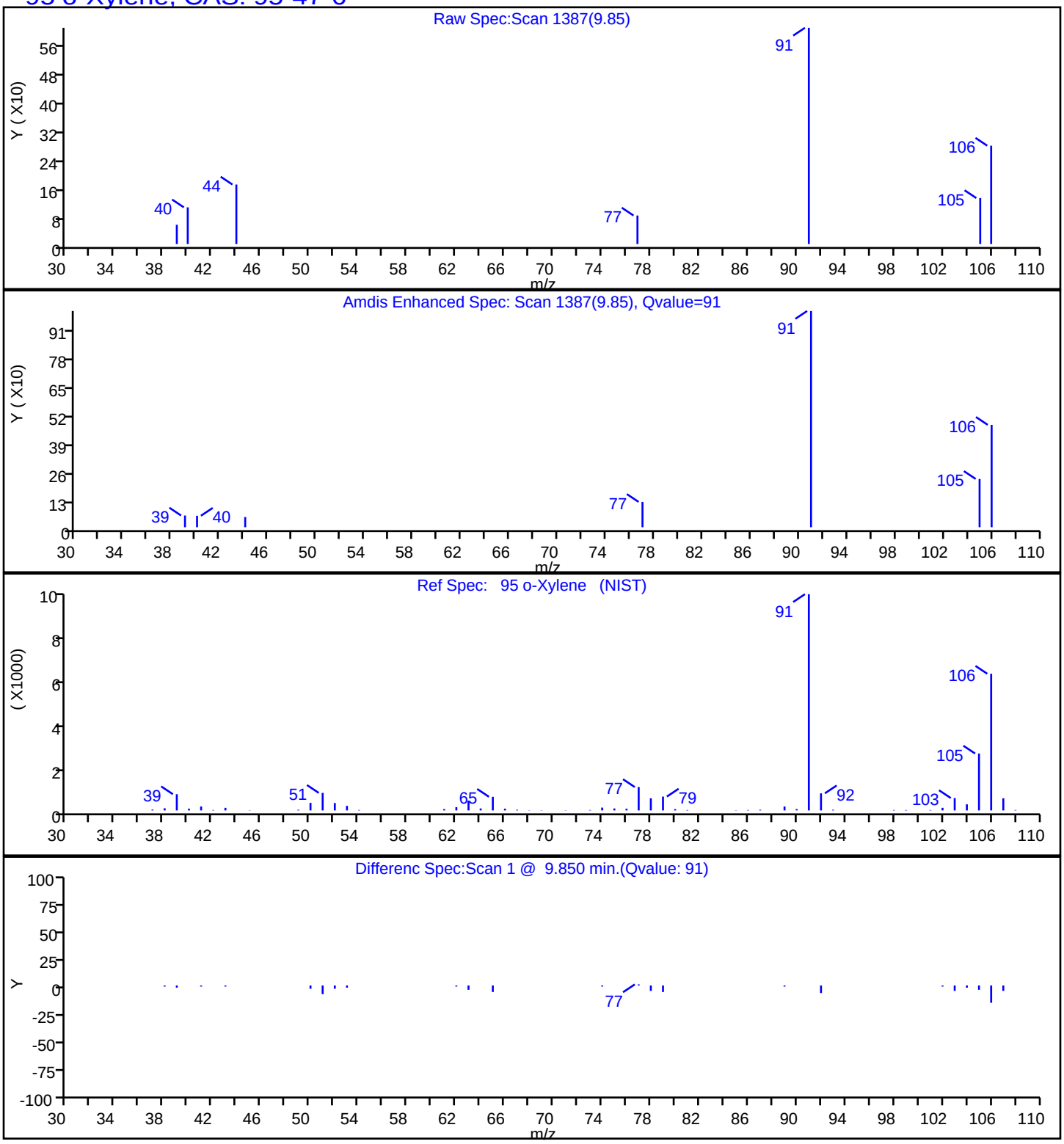
93 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D				
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

95 o-Xylene, CAS: 95-47-6



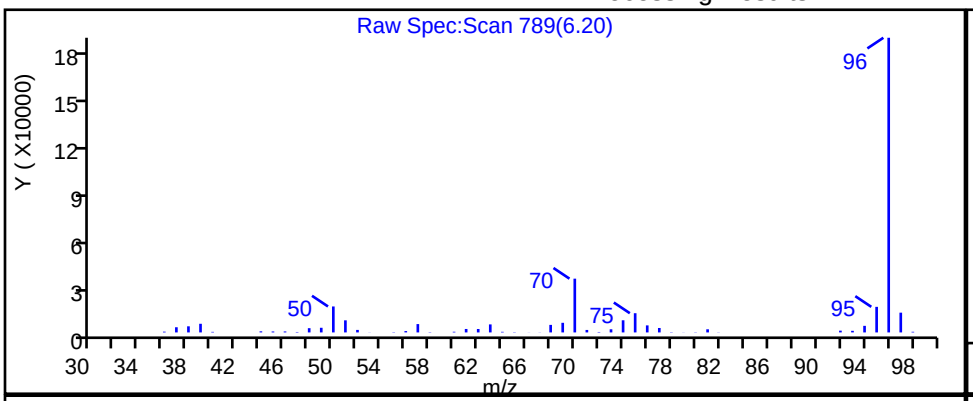
User Disabled Compound Report

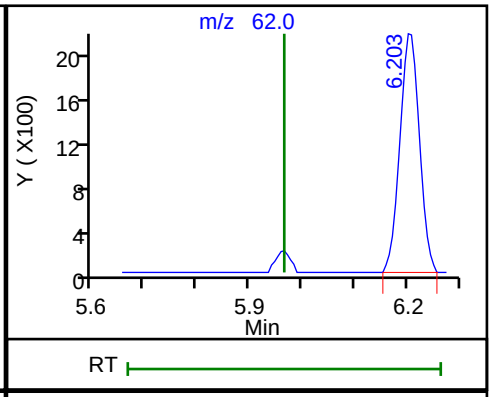
TestAmerica Edison

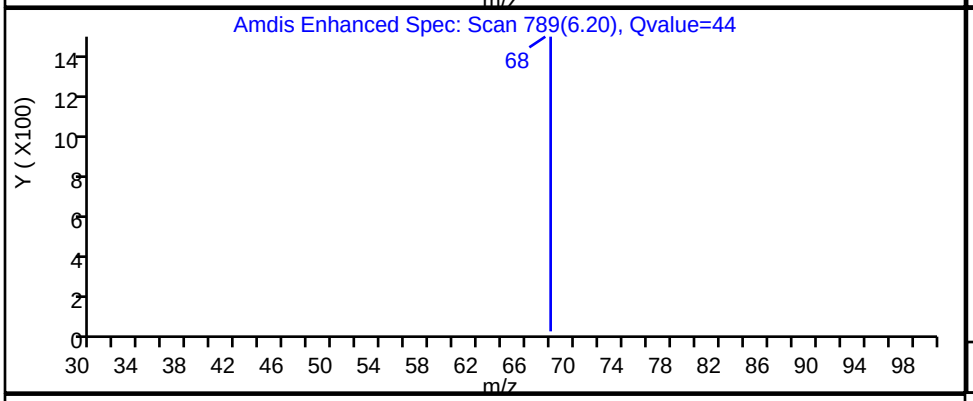
Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D				
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6		
Client ID:	PDI-13-SO-53-06212018				
Operator ID:		ALS Bottle#:	20	Worklist Smp#:	21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

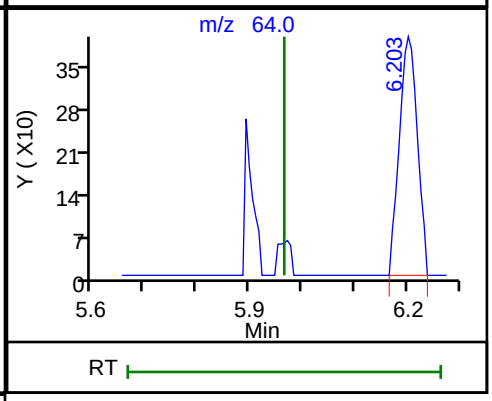
59 1,2-Dichloroethane, CAS: 107-06-2

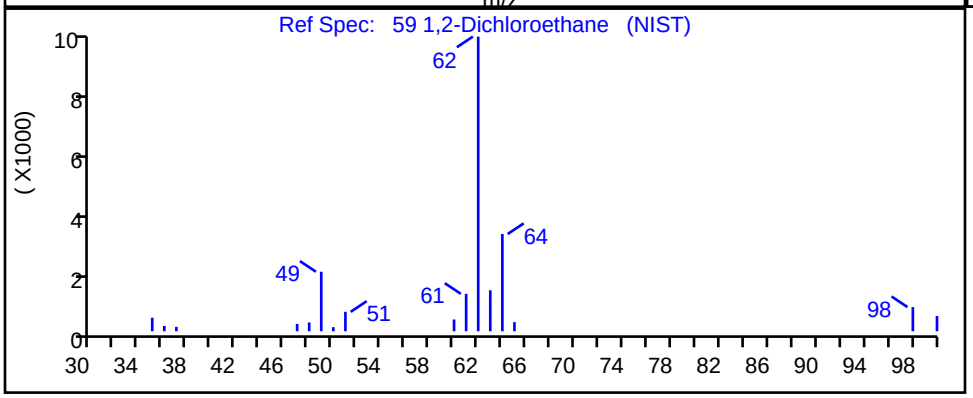
Processing Results











RT	Mass	Response	Amount
6.20	62.00	5733	1.891630
6.20	64.00	955	

Reviewer: tupayachia, 01-Jul-2018 10:04:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

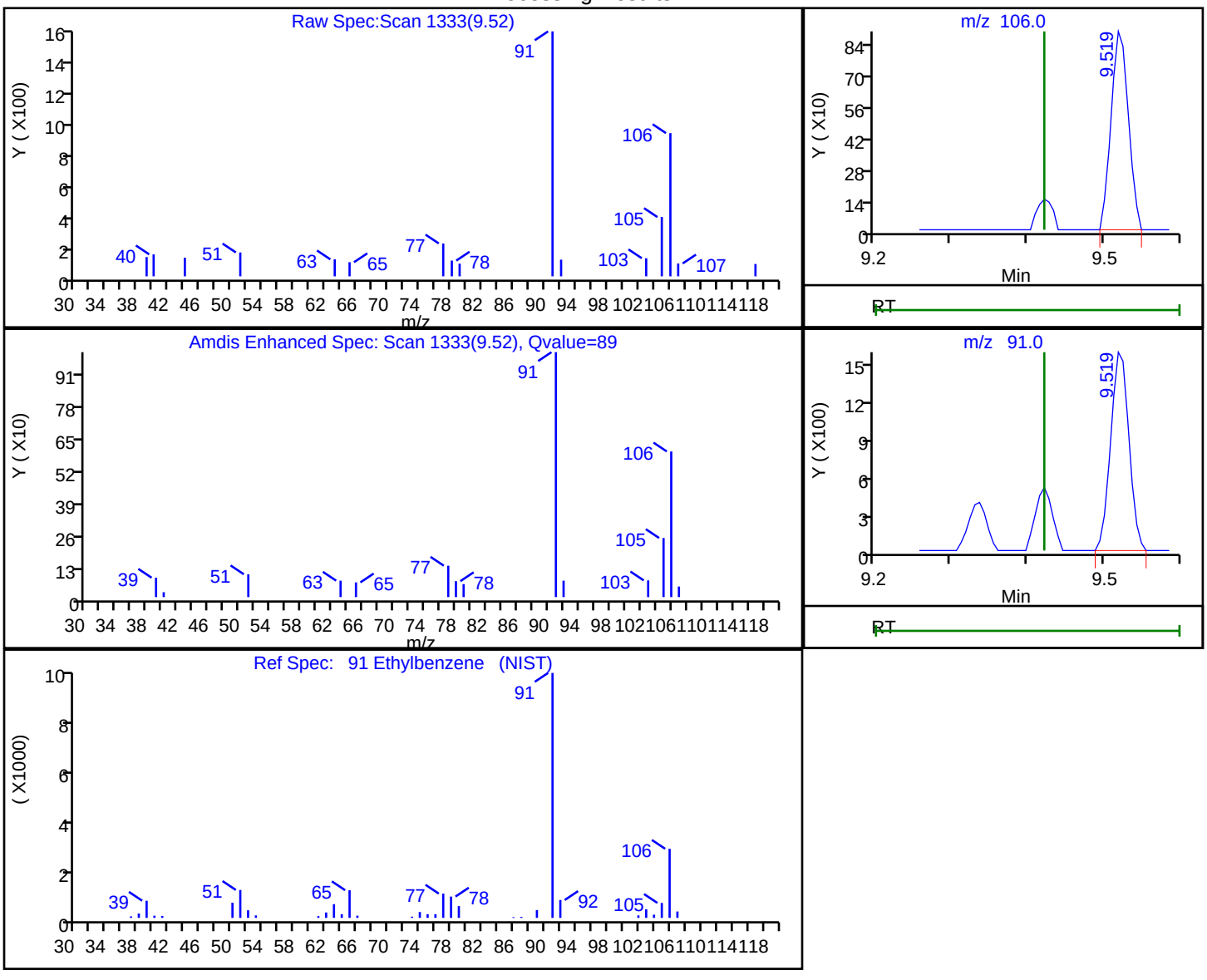
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52046.D		
Injection Date:	01-Jul-2018 01:28:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-6-A	Lab Sample ID:	460-159001-6
Client ID:	PDI-13-SO-53-06212018		
Operator ID:		ALS Bottle#:	20 Worklist Smp#: 21
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

91 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.52	106.00	1413	0.427399
9.52	91.00	2560	

Reviewer: tupayachia, 01-Jul-2018 10:04:54

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-113-SO-53-06212018 | Lab Sample ID: 460-159001-7

Matrix: Solid | Lab File ID: D52045.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:30

Sample wt/vol: 7.56(g) | Date Analyzed: 07/01/2018 01:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.79	0.18
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.79	0.17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.79	0.24
79-00-5	1,1,2-Trichloroethane	ND		0.79	0.14
75-34-3	1,1-Dichloroethane	ND		0.79	0.16
75-35-4	1,1-Dichloroethene	ND		0.79	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		0.79	0.073
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.79	0.36
95-50-1	1,2-Dichlorobenzene	ND		0.79	0.11
107-06-2	1,2-Dichloroethane	ND		0.79	0.23
78-87-5	1,2-Dichloropropane	ND		0.79	0.34
541-73-1	1,3-Dichlorobenzene	ND		0.79	0.13
106-46-7	1,4-Dichlorobenzene	ND		0.79	0.079
78-93-3	2-Butanone (MEK)	ND		4.0	0.88
591-78-6	2-Hexanone	ND		4.0	0.62
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.0	0.53
67-64-1	Acetone	11		4.0	3.0
71-43-2	Benzene	ND		0.79	0.20
75-25-2	Bromoform	ND		0.79	0.34
74-83-9	Bromomethane	ND		0.79	0.38
75-15-0	Carbon disulfide	ND		0.79	0.21
56-23-5	Carbon tetrachloride	ND		0.79	0.14
108-90-7	Chlorobenzene	ND		0.79	0.14
124-48-1	Dibromochloromethane	ND		0.79	0.15
75-00-3	Chloroethane	ND		0.79	0.41
67-66-3	Chloroform	ND		0.79	0.25
74-87-3	Chloromethane	ND		0.79	0.35
156-59-2	cis-1,2-Dichloroethene	1.1		0.79	0.12
110-82-7	Cyclohexane	ND		0.79	0.18
75-27-4	Bromodichloromethane	ND		0.79	0.20
75-71-8	Dichlorodifluoromethane	ND		0.79	0.27
100-41-4	Ethylbenzene	ND		0.79	0.16
106-93-4	1,2-Dibromoethane	ND		0.79	0.14
98-82-8	Isopropylbenzene	ND		0.79	0.10
79-20-9	Methyl acetate	ND		4.0	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-113-SO-53-06212018 | Lab Sample ID: 460-159001-7

Matrix: Solid | Lab File ID: D52045.D

Analysis Method: 8260C | Date Collected: 06/21/2018 12:30

Sample wt/vol: 7.56(g) | Date Analyzed: 07/01/2018 01:03

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.6 | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.79	0.099
108-87-2	Methylcyclohexane	ND		0.79	0.13
75-09-2	Methylene Chloride	0.56	J	0.79	0.13
127-18-4	Tetrachloroethene	0.90		0.79	0.11
108-88-3	Toluene	ND		0.79	0.50
156-60-5	trans-1,2-Dichloroethene	ND		0.79	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.79	0.21
79-01-6	Trichloroethene	29		0.79	0.11
75-69-4	Trichlorofluoromethane	ND		0.79	0.32
75-01-4	Vinyl chloride	ND		0.79	0.43
1330-20-7	Xylenes, Total	0.53	J	1.6	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.79	0.22
100-42-5	Styrene	ND		0.79	0.098

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-135
460-00-4	4-Bromofluorobenzene	86		67-126
2037-26-5	Toluene-d8 (Surr)	100		73-121
1868-53-7	Dibromofluoromethane (Surr)	103		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D
Lims ID: 460-159001-B-7-A
Client ID: PDI-113-SO-53-06212018
Sample Type: Client
Inject. Date: 01-Jul-2018 01:03:30 ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-7-A
Misc. Info.: 460-0074660-020
Operator ID: Instrument ID: CVOAMS4

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 10:08:40 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: tupayachia Date: 01-Jul-2018 10:04:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.118	3.118	0.000	86	9186	14.1	
26 Methylene Chloride	84	3.551	3.551	0.000	89	2323	0.7113	
* 27 TBA-d9 (IS)	65	3.563	3.569	-0.006	67	354778	1000.0	
* 38 2-Butanone-d5	46	4.856	4.856	0.000	0	244095	250.0	
40 cis-1,2-Dichloroethene	96	4.898	4.904	-0.006	98	5037	1.45	
$ 51 Dibromofluoromethane (Surr	113	5.441	5.447	-0.006	99	161831	51.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.874	5.874	0.000	96	134767	49.5	
* 61 Fluorobenzene	96	6.209	6.209	0.000	99	528569	50.0	
63 Trichloroethene	95	6.648	6.654	-0.006	95	102468	36.7	
* 67 1,4-Dioxane-d8	96	7.057	7.056	0.000	0	31358	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	476776	50.2	
83 Tetrachloroethene	166	8.556	8.556	0.000	95	3349	1.13	
* 89 Chlorobenzene-d5	117	9.337	9.336	0.001	83	358119	50.0	
93 m-Xylene & p-Xylene	106	9.519	9.525	-0.006	100	2027	0.4680	
95 o-Xylene	106	9.849	9.849	0.000	94	846	0.1991	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	166992	43.1	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	93	221920	50.0	
S 132 Xylenes, Total	100				0		0.6672	

Reagents:

8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

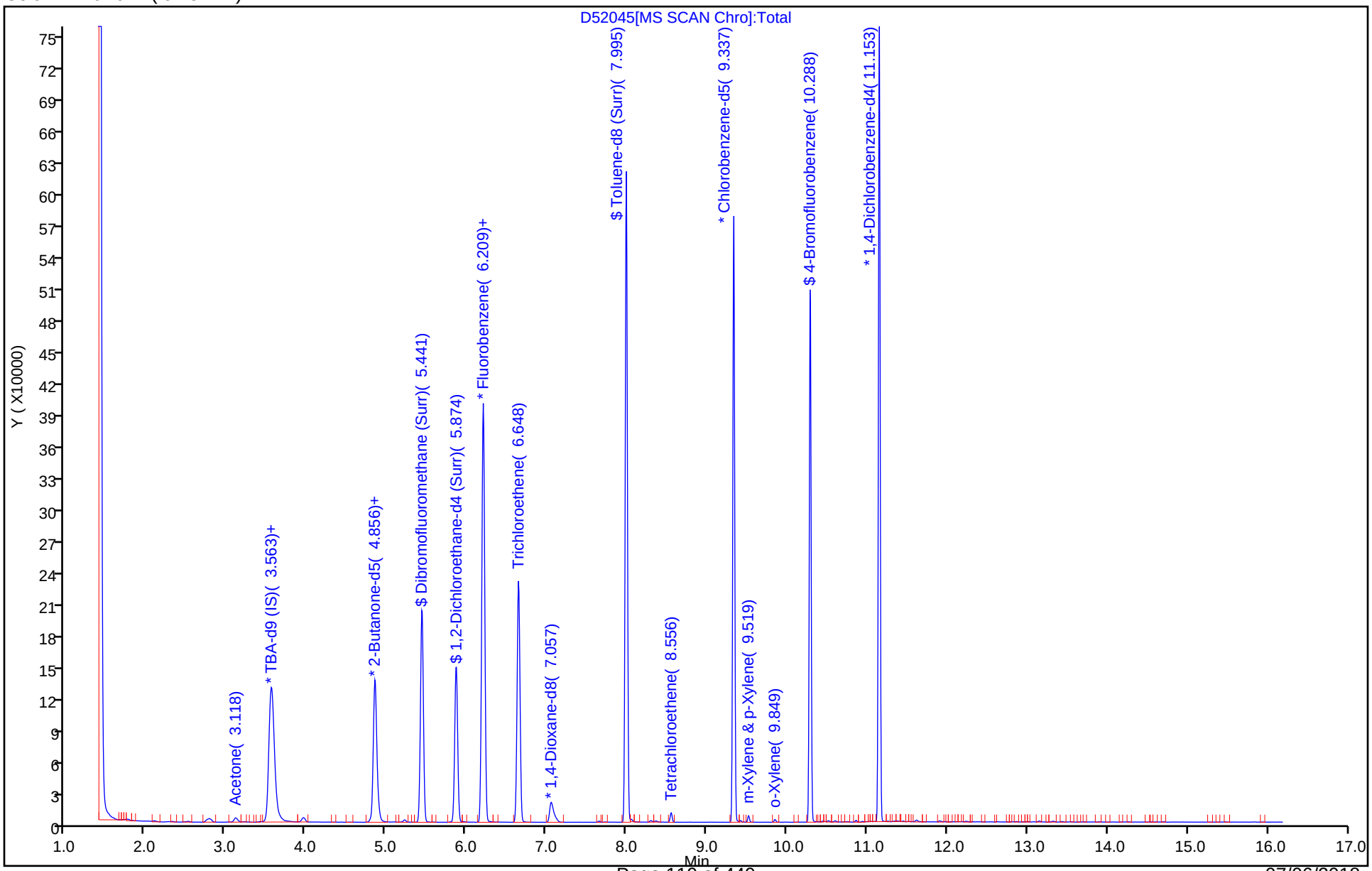
Report Date: 01-Jul-2018 10:14:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D

Injection Date:	01-Jul-2018 01:03:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	460-159001-B-7-A	Lab Sample ID:	460-159001-7	Worklist Smp#:	20
Client ID:	PDI-113-SO-53-06212018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	19
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)

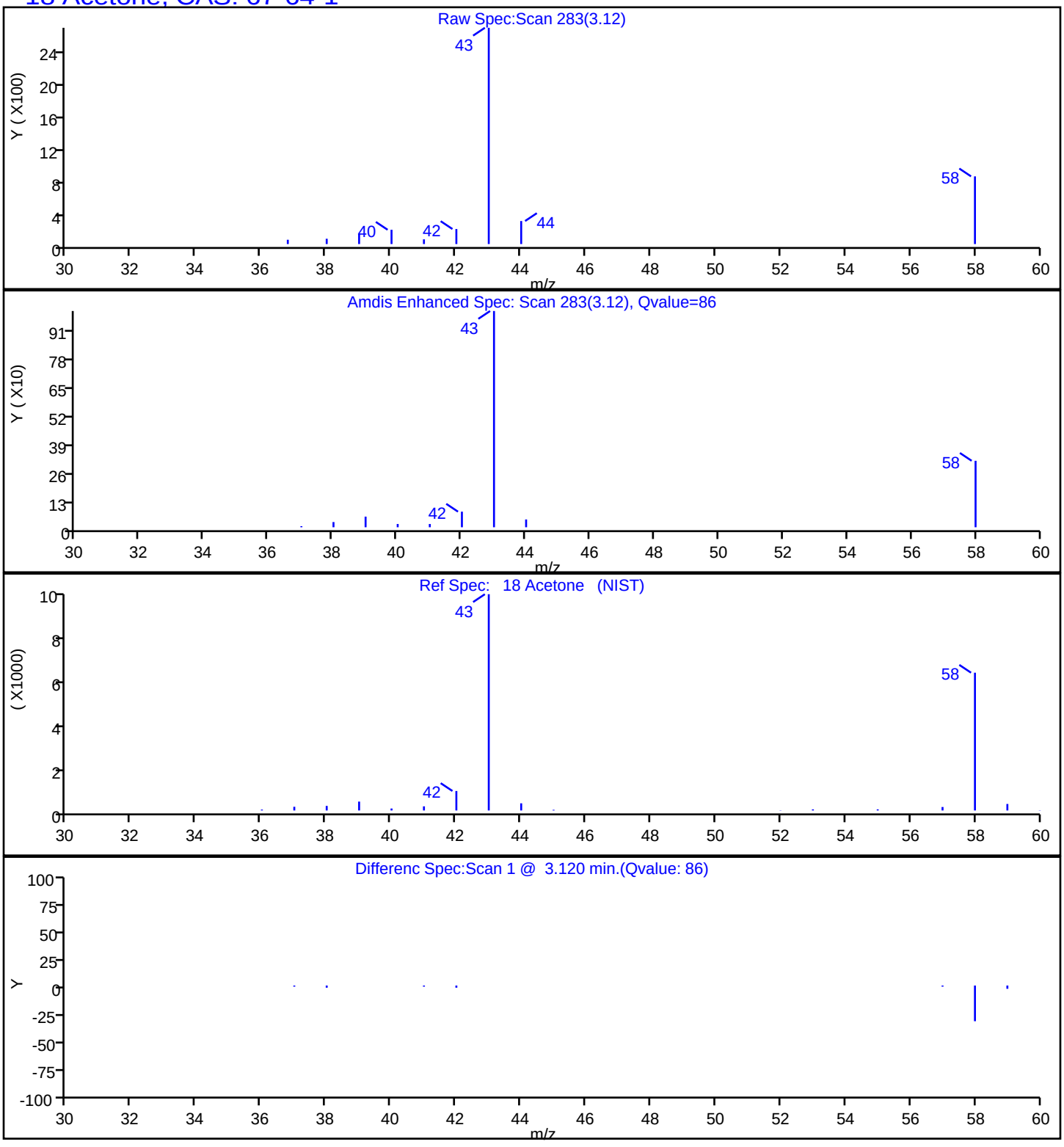


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D

Injection Date:	01-Jul-2018 01:03:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-7-A	Lab Sample ID:	460-159001-7
Client ID:	PDI-113-SO-53-06212018		
Operator ID:		ALS Bottle#:	19 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

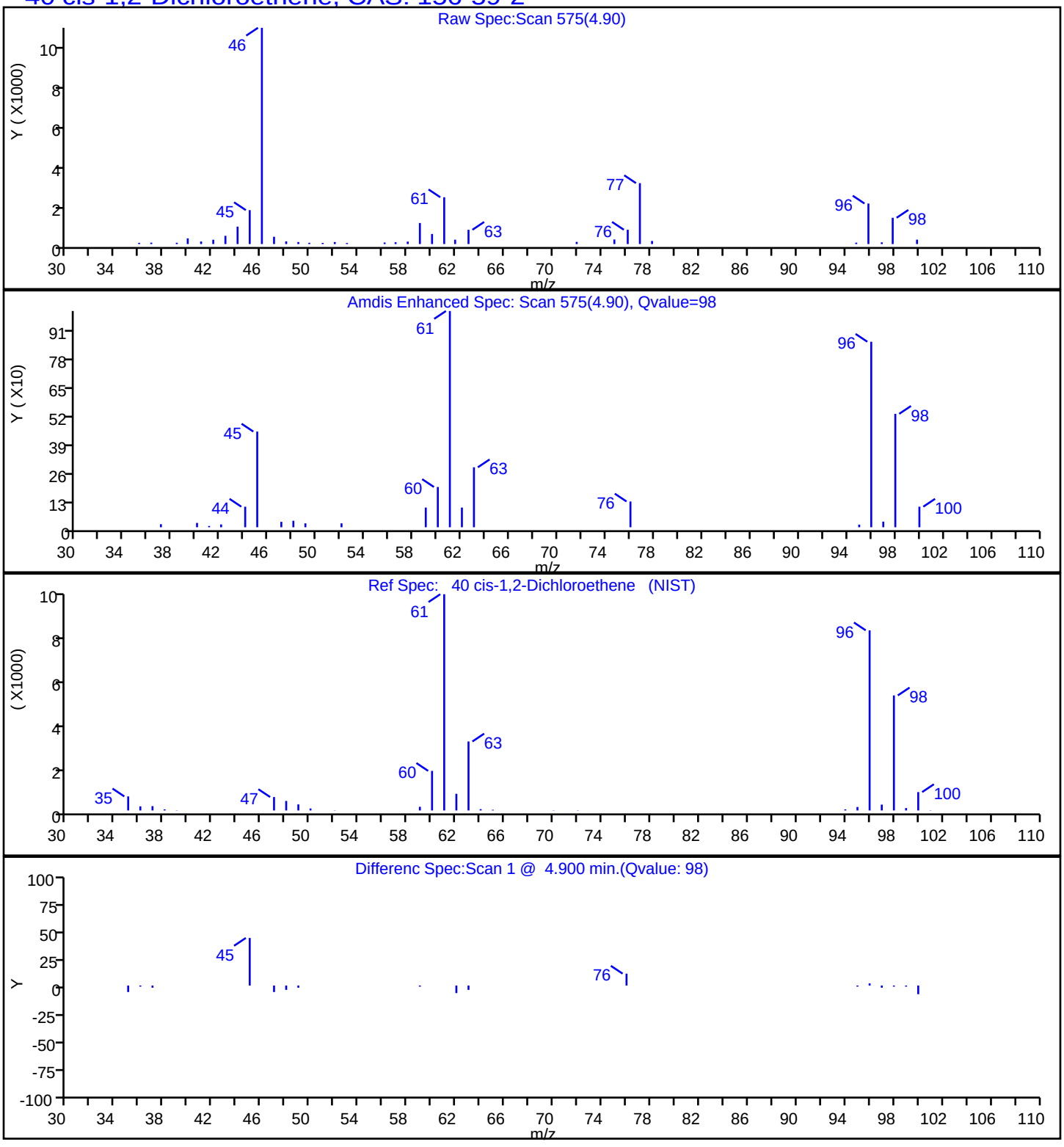
18 Acetone, CAS: 67-64-1



TestAmerica Edison

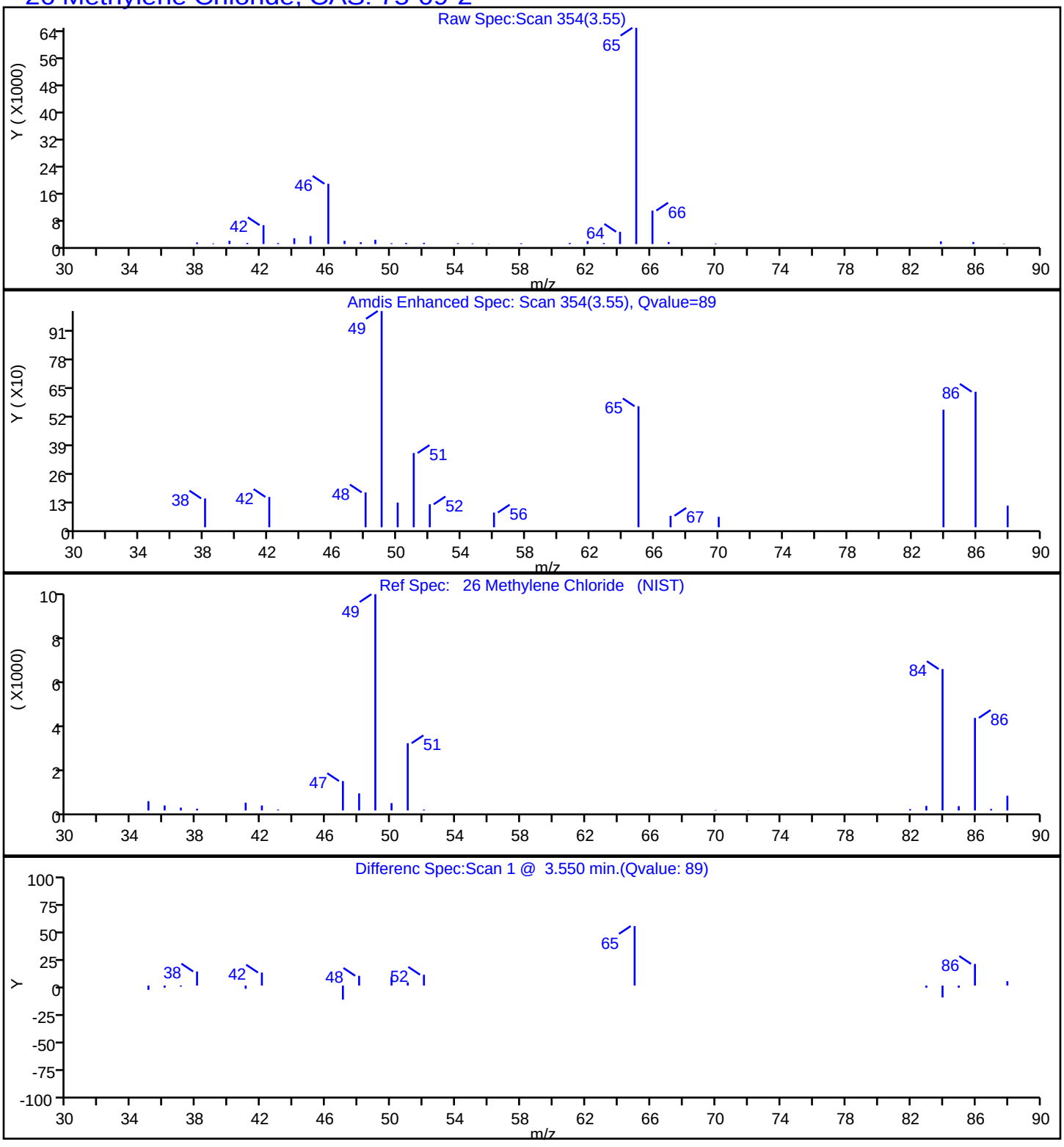
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D
Injection Date: 01-Jul-2018 01:03:30 Instrument ID: CVOAMS4
Lims ID: 460-159001-B-7-A Lab Sample ID: 460-159001-7
Client ID: PDI-113-SO-53-06212018
Operator ID: ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

40 cis-1,2-Dichloroethene, CAS: 156-59-2



Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D
Injection Date: 01-Jul-2018 01:03:30 Instrument ID: CVOAMS4
Lims ID: 460-159001-B-7-A Lab Sample ID: 460-159001-7
Client ID: PDI-113-SO-53-06212018
Operator ID: ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

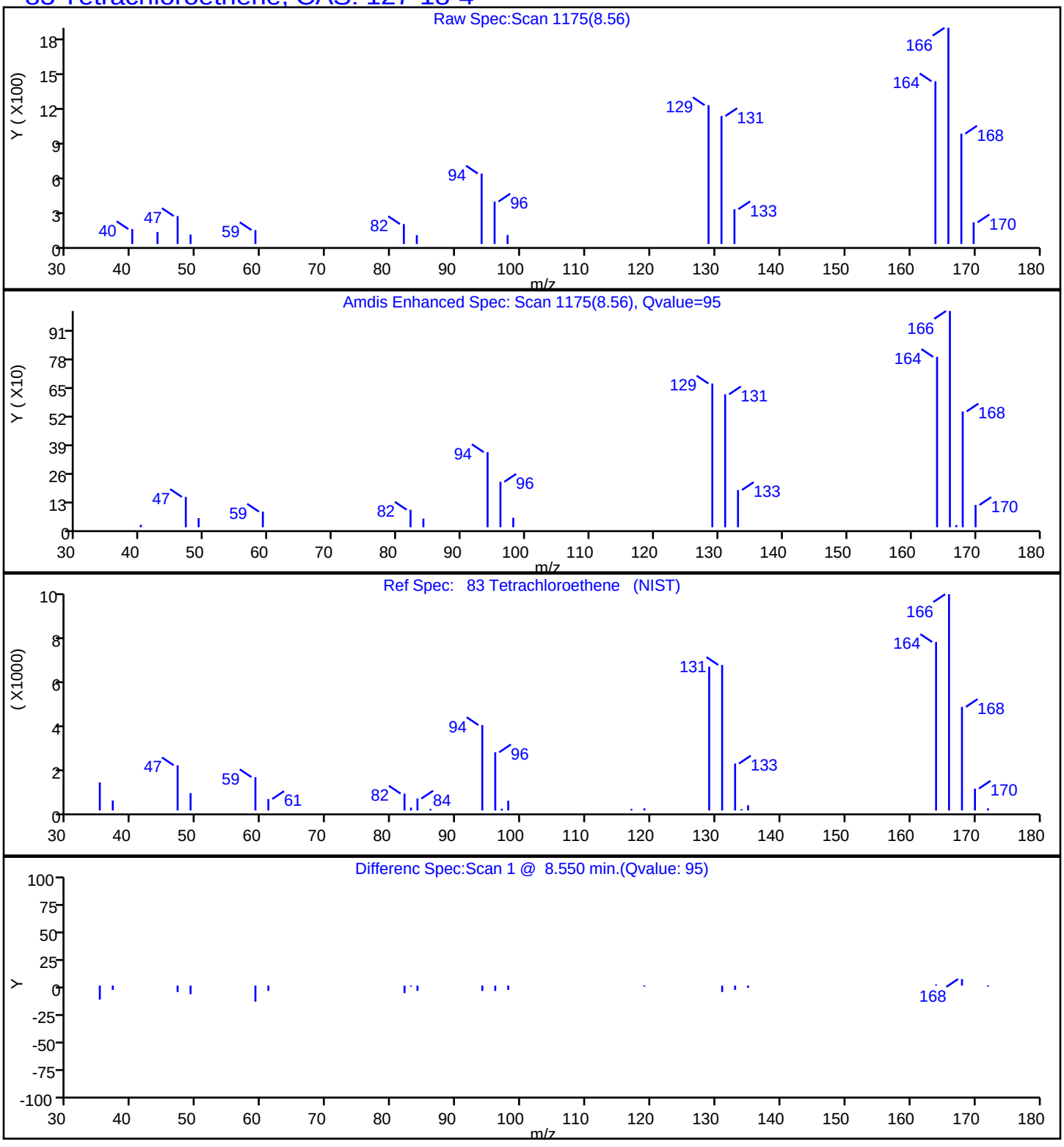
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D		
Injection Date:	01-Jul-2018 01:03:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-7-A	Lab Sample ID:	460-159001-7
Client ID:	PDI-113-SO-53-06212018		
Operator ID:		ALS Bottle#:	19 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

83 Tetrachloroethene, CAS: 127-18-4



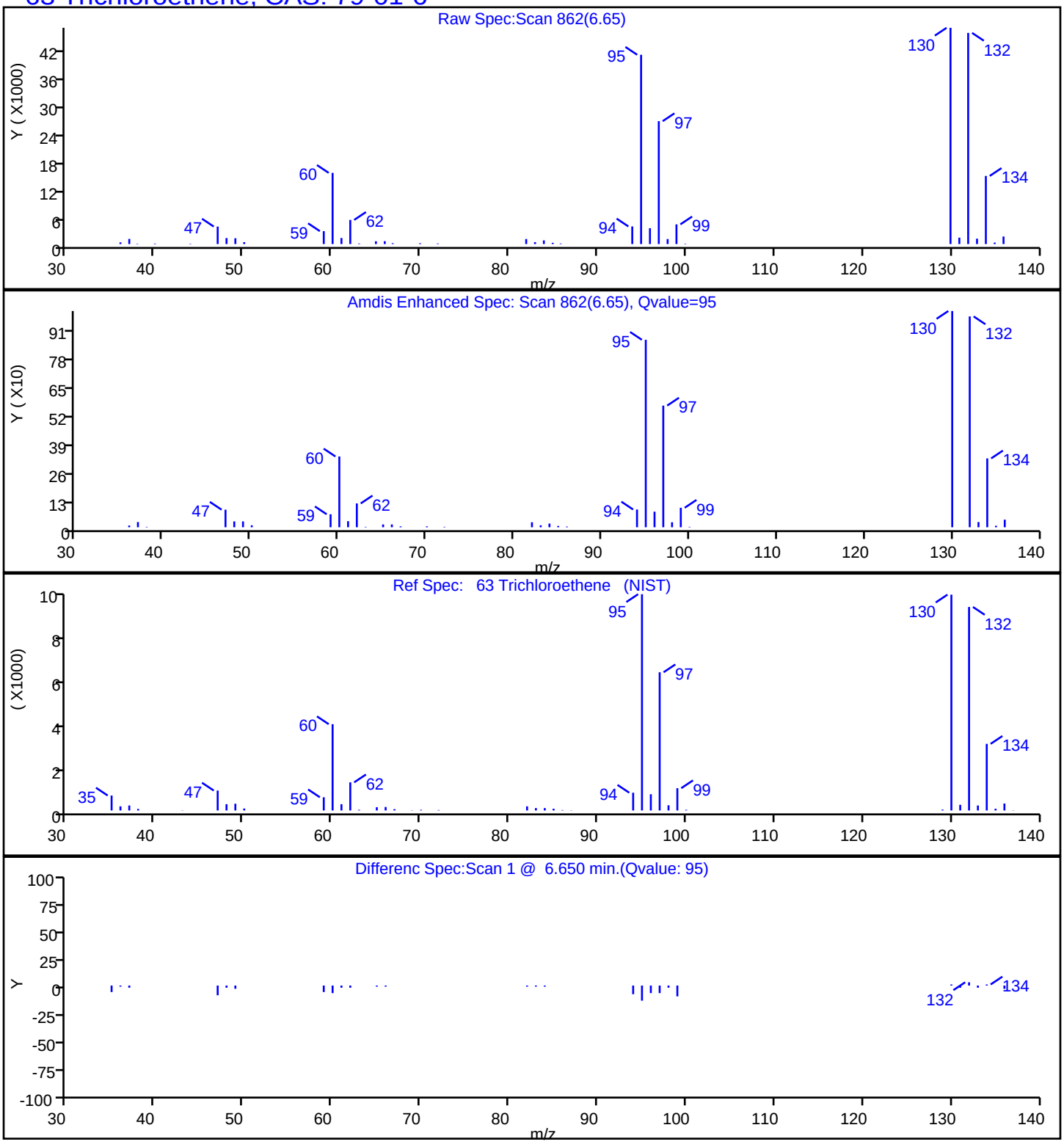
Report Date: 01-Jul-2018 10:14:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D

Injection Date:	01-Jul-2018 01:03:30	Instrument ID:	CVOAMS4		
Lims ID:	460-159001-B-7-A	Lab Sample ID:	460-159001-7		
Client ID:	PDI-113-SO-53-06212018				
Operator ID:		ALS Bottle#:	19	Worklist Smp#:	20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

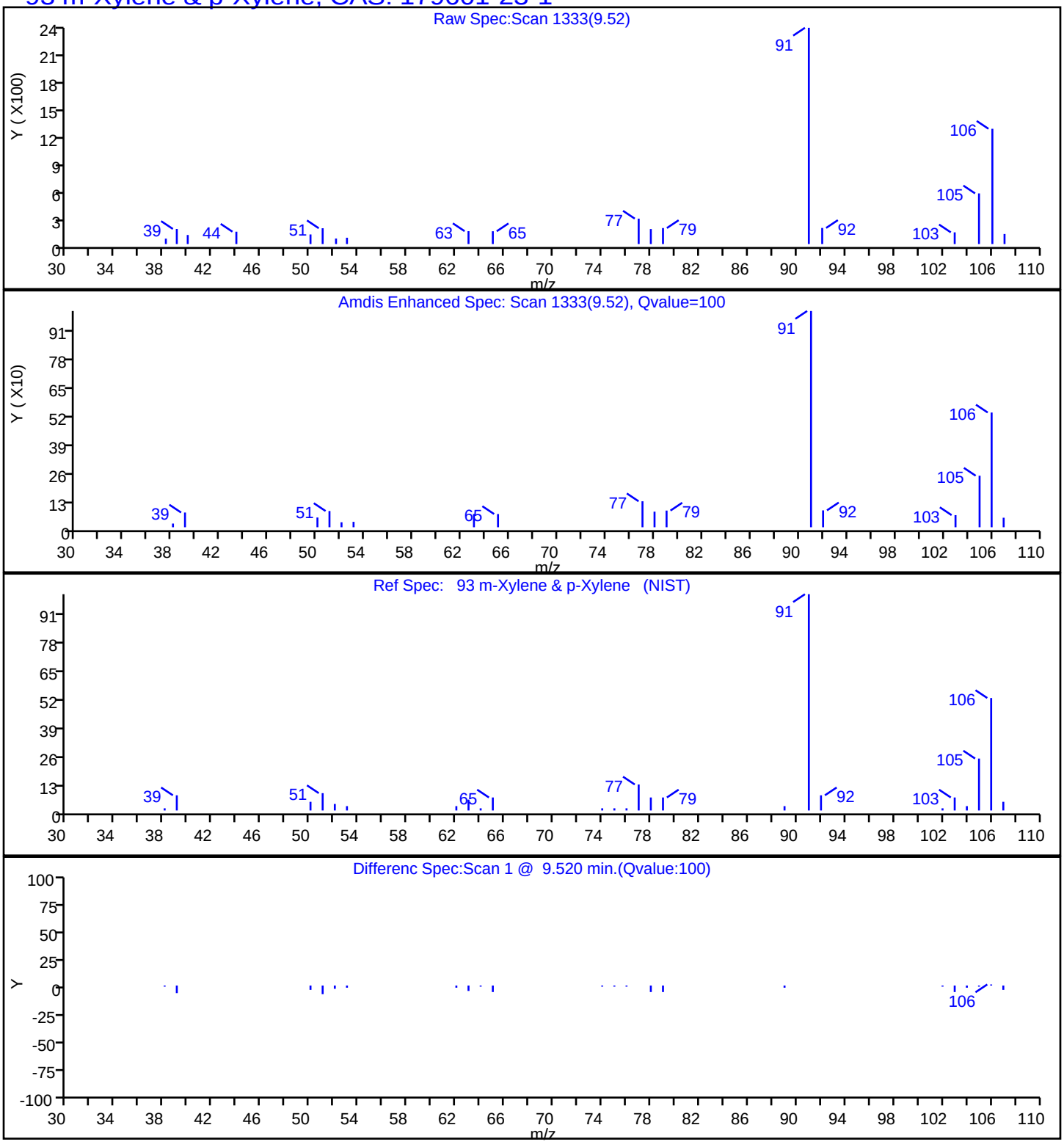
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D
Injection Date: 01-Jul-2018 01:03:30 Instrument ID: CVOAMS4
Lims ID: 460-159001-B-7-A Lab Sample ID: 460-159001-7
Client ID: PDI-113-SO-53-06212018
Operator ID: ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

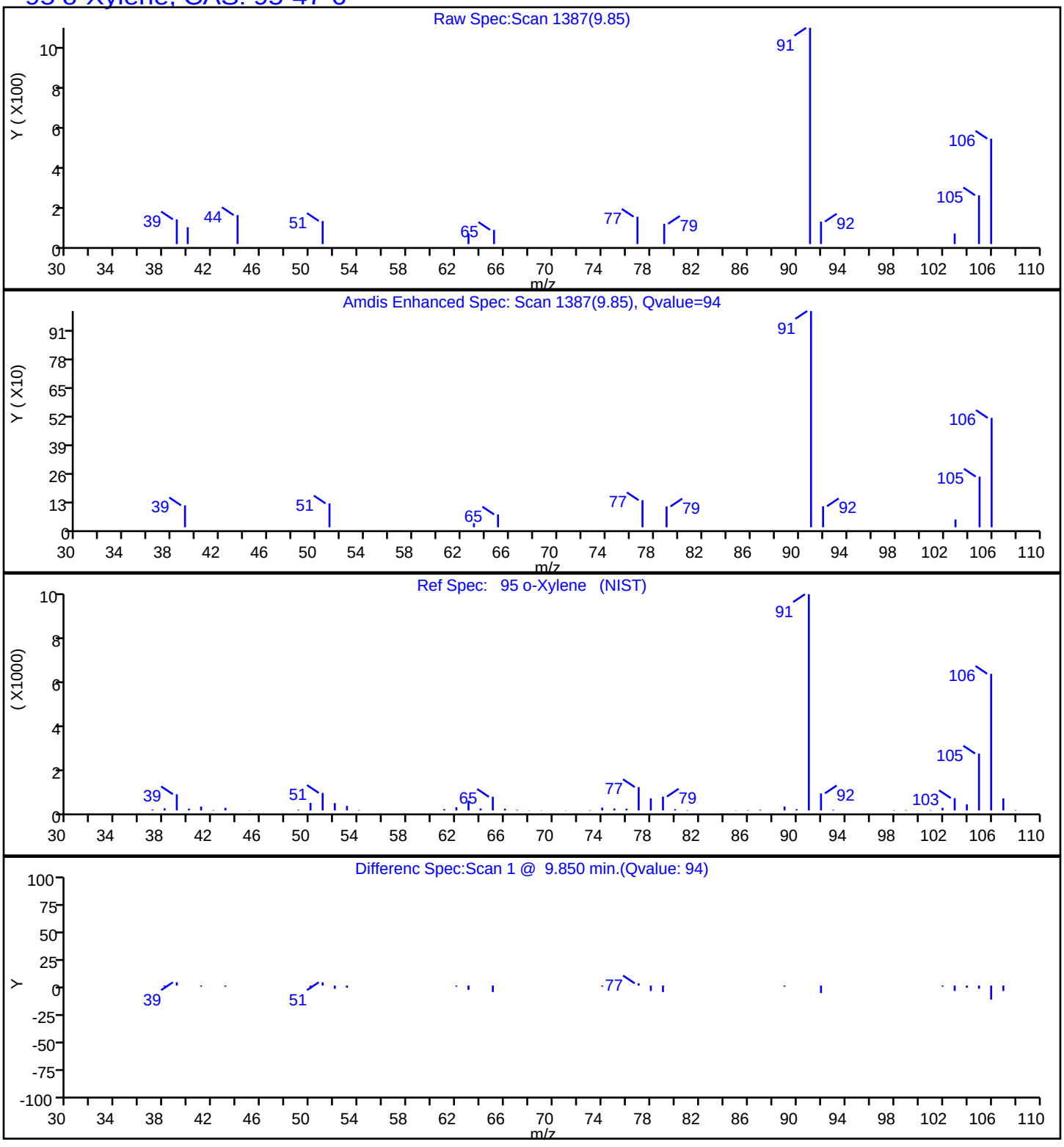
93 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D
Injection Date: 01-Jul-2018 01:03:30 Instrument ID: CVOAMS4
Lims ID: 460-159001-B-7-A Lab Sample ID: 460-159001-7
Client ID: PDI-113-SO-53-06212018
Operator ID: ALS Bottle#: 19 Worklist Smp#: 20
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

95 o-Xylene, CAS: 95-47-6



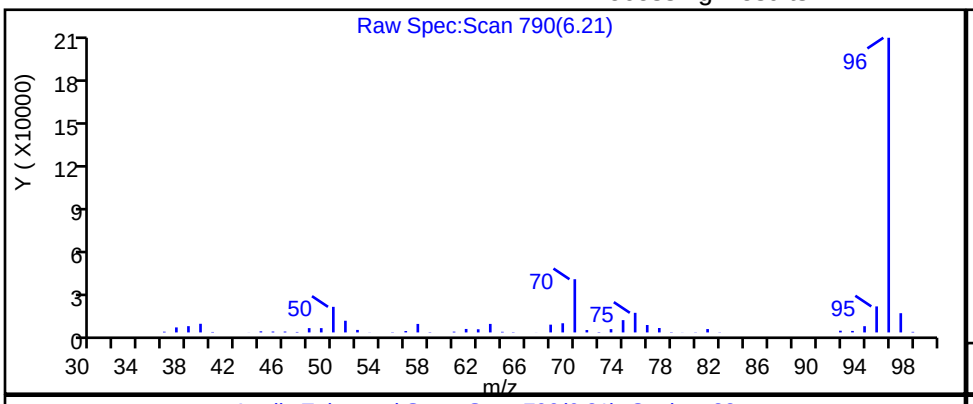
User Disabled Compound Report

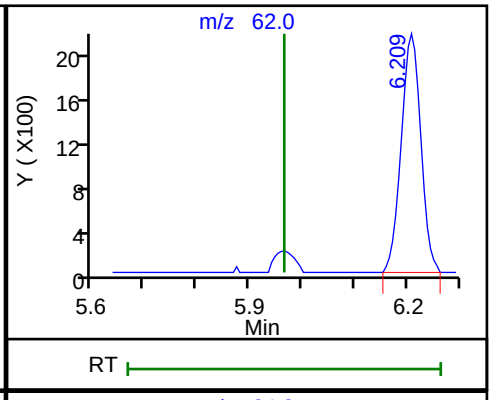
TestAmerica Edison

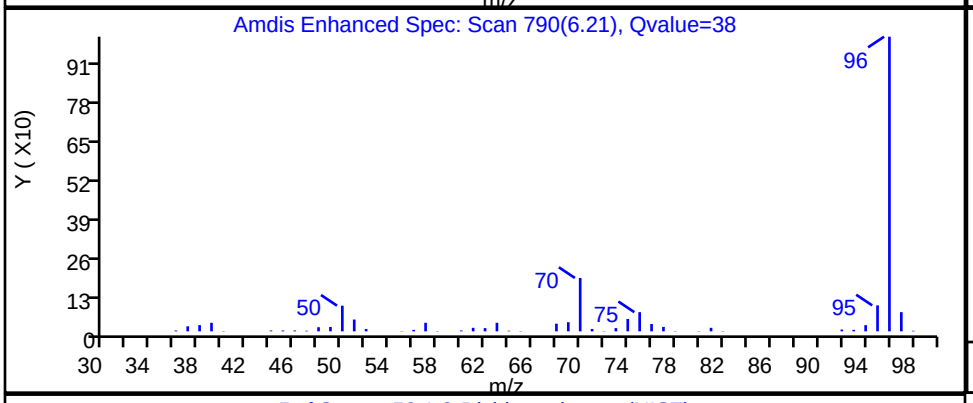
Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D		
Injection Date:	01-Jul-2018 01:03:30	Instrument ID:	CVOAMS4
Lims ID:	460-159001-B-7-A	Lab Sample ID:	460-159001-7
Client ID:	PDI-113-SO-53-06212018		
Operator ID:		ALS Bottle#:	19 Worklist Smp#: 20
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

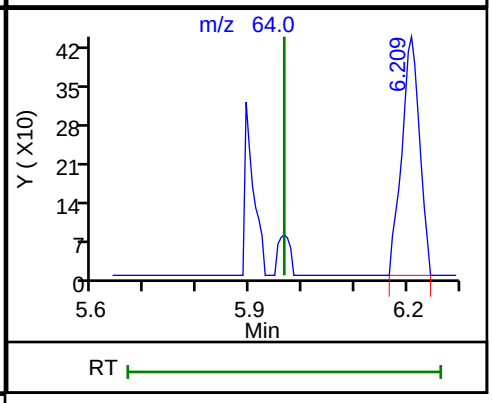
59 1,2-Dichloroethane, CAS: 107-06-2

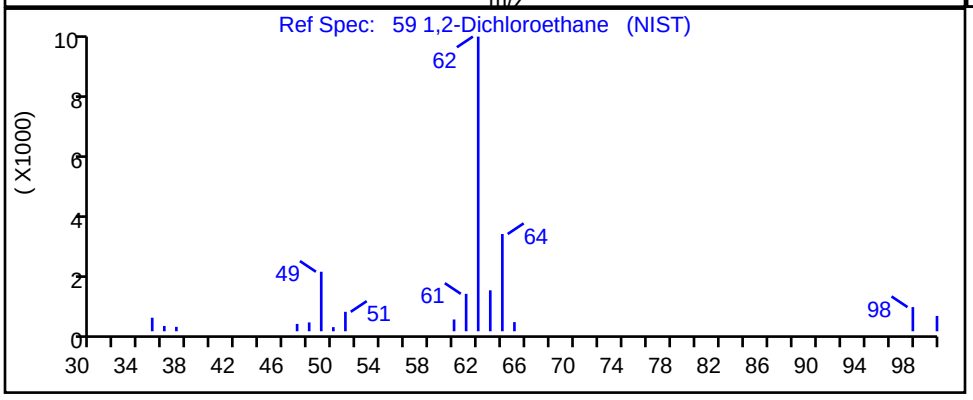
Processing Results











RT	Mass	Response	Amount
6.21	62.00	5689	1.776891
6.21	64.00	1024	

Reviewer: tupayachia, 01-Jul-2018 10:03:23

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52045.D

Injection Date: 01-Jul-2018 01:03:30 Instrument ID: CVOAMS4

Lims ID: 460-159001-B-7-A Lab Sample ID: 460-159001-7

Client ID: PDI-113-SO-53-06212018

Operator ID: ALS Bottle#: 19 Worklist Smp#: 20

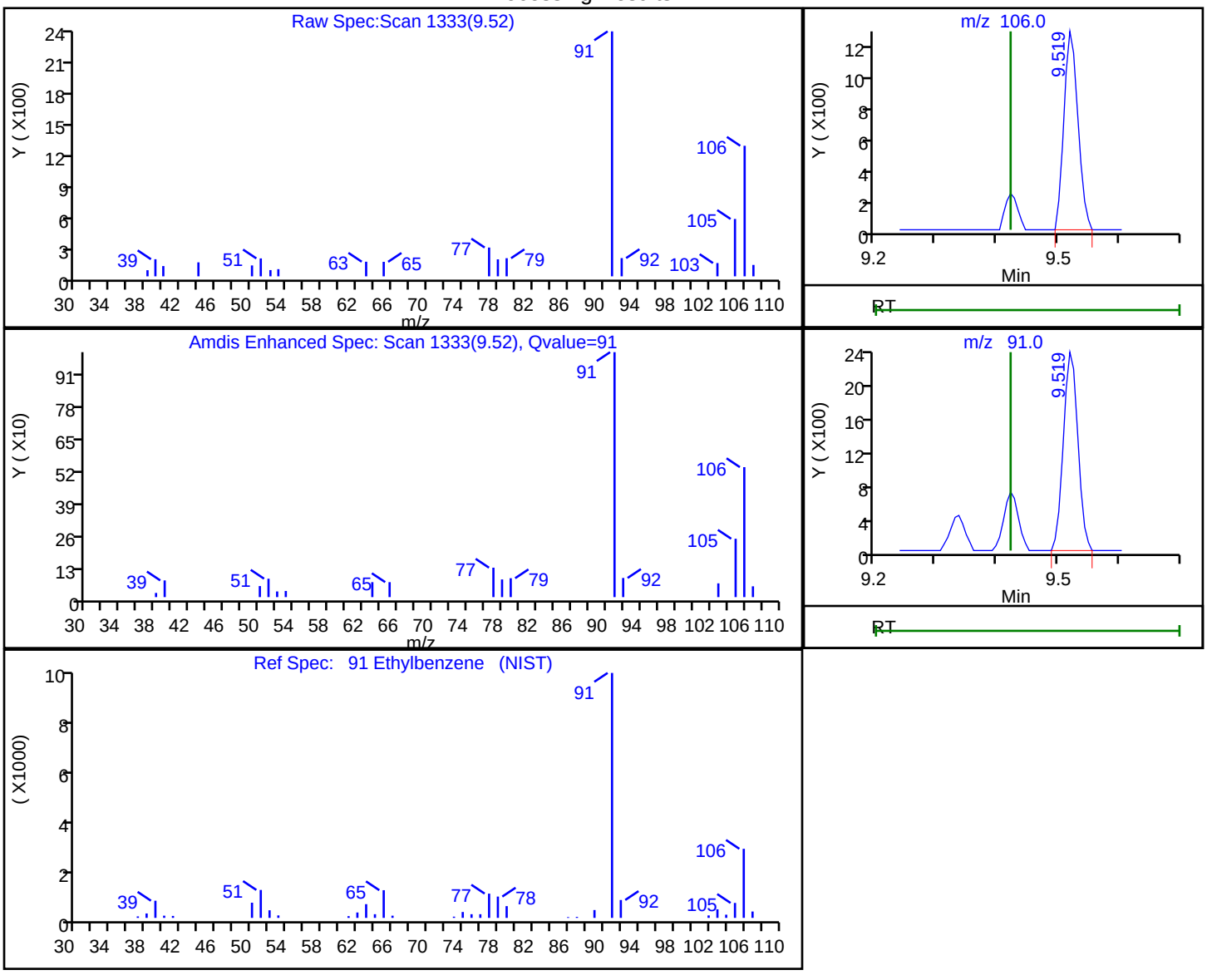
Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

91 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.52	106.00	2027	0.581562
9.52	91.00	3938	

Reviewer: tupayachia, 01-Jul-2018 10:03:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-512577/3	P43991.D
Level 2	STD05 460-512577/4	P43992.D
Level 3	STD1 460-512577/10	P43998.D
Level 4	STD5 460-512577/6	P43994.D
Level 5	STD20 460-512577/7	P43995.D
Level 6	STD50 460-512577/11	P43999.D
Level 7	STD200 460-512577/12	P44000.D
Level 8	STD500 460-512577/13	P44001.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.1188	0.1225 0.1600	0.1068 0.1542	0.1125	0.1204	Ave		0.1279				16.2		20.0			
Dichlorodifluoromethane	+++++ 0.3028	0.4332 0.4214	0.3662 0.3986	0.4036	0.3717	Ave		0.3854			0.1000	11.3		20.0			
Chloromethane	+++++ 0.3247	0.4466 0.3708	0.3636 0.3820	0.3649	0.3353	Ave		0.3697			0.1000	10.7		20.0			
Vinyl chloride	+++++ 0.3599	0.5041 0.3982	0.4455 0.3821	0.4343	0.3836	Ave		0.4154			0.1000	11.9		20.0			
Butadiene	+++++ 0.3014	0.4049 0.3861	0.3783 0.3674	0.3794	0.3481	Ave		0.3665				9.1		20.0			
Bromomethane	+++++ 1.1202	1.2679 1.3095	1.2257 1.1774	1.2915	1.2075	Ave		1.2285			0.1000	5.4		20.0			
Chloroethane	+++++ 0.2130	0.2717 0.2008	0.2584 +++++	0.2569	0.2199	Ave		0.2368			0.1000	12.3		20.0			
Pentane	+++++ 1.6493	1.9936 1.8914	1.6611 1.4067	1.7586	1.7113	Ave		1.7246				10.9		20.0			
Trichlorofluoromethane	+++++ 0.3405	0.4810 0.4240	0.3993 0.3703	0.4298	0.3962	Ave		0.4059			0.1000	11.1		20.0			
Dichlorofluoromethane	+++++ 0.5223	0.6040 0.5261	0.5432 0.4768	0.5820	0.5351	Ave		0.5414				7.7		20.0			
2-Methyl-1,3-butadiene	+++++ 0.4061	0.4327 0.4203	0.3671 0.3873	0.3887	0.4235	Ave		0.4037				5.9		20.0			
Ethyl ether	+++++ 0.2764	0.2700 0.2693	0.2822 0.2547	0.2768	0.2744	Ave		0.2720				3.2		20.0			
Ethanol	+++++ 0.0669	0.0498 0.0656	0.0747 0.0635	0.0617	0.0708	Ave		0.0647				12.2		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.3615	0.3798 0.3517	0.3826 0.3423	0.3722	0.3687	Ave		0.3655				4.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloroethene	+++++ 0.2470	0.2408 0.2457	0.2443 0.2454	0.2554	0.2486	Ave		0.2468			0.1000	1.8		20.0			
Carbon disulfide	+++++ 0.9649	1.1042 0.9842	0.9745 0.9528	0.9114	0.9387	Ave		0.9758			0.1000	6.3		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2613	0.2653 0.2655	0.2291 0.2492	0.2594	0.2554	Ave		0.2550			0.1000	5.0		20.0			
Iodomethane	+++++ 0.2515	0.0742 0.3057	0.0854 0.2819	0.0958	0.1668	QuaF		0.3086	-0.000052						0.9990		0.9900
Cyclopentene	+++++ 0.7136	0.7231 0.7244	0.6370 0.7015	0.6975	0.7215	Ave		0.7027				4.4		20.0			
Acrolein	+++++ 1.1654	1.1111 1.3448	0.8580 1.3835	0.9601	0.9601	Ave		1.1119				18.0		20.0			
Allyl chloride	+++++ 0.1774	0.1840 0.1682	0.1910 0.1505	0.1773	0.1756	Ave		0.1749				7.4		20.0			
Isopropyl alcohol	+++++ 0.8024	1.0601 0.7905	0.9671 0.7681	0.8372	0.8196	Ave		0.8636				12.5		20.0			
Methylene Chloride	+++++ 0.3133	0.3234 0.3017	0.3621 0.2991	0.3170	0.3122	Ave		0.3184			0.1000	6.6		20.0			
Acetone	+++++ 0.6368	0.9454 0.6290	0.8267 +++++	0.6847	0.6599	Ave		0.7304			0.0500	17.5		20.0			
trans-1,2-Dichloroethene	+++++ 0.2846	0.3533 0.2777	0.3125 0.2729	0.2732	0.2830	Ave		0.2939			0.1000	10.0		20.0			
Methyl acetate	+++++ 0.2420	0.2570 0.2568	0.2696 0.2663	0.2517	0.2739	Ave		0.2596			0.1000	4.3		20.0			
Hexane	+++++ 0.0717	0.0913 0.0811	0.0684 0.0794	0.0760	0.0791	Ave		0.0782				9.4		20.0			
Methyl tert-butyl ether	+++++ 0.9434	0.9313 0.9281	0.9339 0.8999	0.9598	0.9314	Ave		0.9326			0.1000	1.9		20.0			
2-Methyl-2-propanol	+++++ 1.2134	1.3752 1.1997	1.2940 1.1867	1.2520	1.2017	Ave		1.2461				5.5		20.0			
Acetonitrile	+++++ 1.5546	1.5219 1.5610	1.4950 1.3574	1.5597	1.5263	Ave		1.5108				4.8		20.0			
Isopropyl ether	+++++ 1.2233	1.1897 1.1993	1.2214 1.1826	1.2195	1.2148	Ave		1.2072				1.4		20.0			
2-Chloro-1,3-butadiene	+++++ 0.2683	0.2641 0.2743	0.2602 0.2596	0.2650	0.2759	Ave		0.2668				2.4		20.0			
1,1-Dichloroethane	+++++ 0.5894	0.5839 0.5587	0.5752 0.5543	0.5763	0.5895	Ave		0.5753			0.2000	2.4		20.0			
Acrylonitrile	0.1574 0.1365	0.1292 0.1364	0.1343 0.1295	0.1378	0.1372	Ave		0.1373				6.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	+++++ 1.0970	1.0370 1.0841	1.0546 1.0611	1.1311	1.0920	Ave		1.0796				2.9		20.0			
Vinyl acetate	+++++ 0.8047	0.7055 0.8523	0.8898 0.7223	0.8813	0.8626	Ave		0.8169				9.3		20.0			
cis-1,2-Dichloroethene	+++++ 0.3444	0.3576 0.3188	0.3487 0.3320	0.3355	0.3386	Ave		0.3394			0.1000	3.7		20.0			
2,2-Dichloropropane	+++++ 0.4973	0.5477 0.4742	0.5159 0.4350	0.4790	0.4971	Ave		0.4923				7.2		20.0			
Cyclohexane	+++++ 0.5913	0.6246 0.6281	0.5498 0.6136	0.5843	0.5991	Ave		0.5987			0.1000	4.5		20.0			
Chlorobromomethane	+++++ 0.1542	0.1641 0.1396	0.1477 0.1350	0.1555	0.1499	Ave		0.1494				6.6		20.0			
Chloroform	+++++ 0.5611	0.5867 0.5331	0.5648 0.5241	0.5568	0.5634	Ave		0.5557			0.2000	3.8		20.0			
Carbon tetrachloride	+++++ 0.3946	0.4096 0.4013	0.3744 0.3870	0.3719	0.3748	Ave		0.3877			0.1000	3.8		20.0			
Ethyl acetate	+++++ 0.2802	0.4267 0.2851	0.2913 0.2771	0.2840	0.2876	Ave		0.3046				17.7		20.0			
Methyl acrylate	+++++ 0.3324	0.3400 0.3324	0.2788 0.3243	0.3246	0.3218	Ave		0.3220				6.2		20.0			
Tetrahydrofuran	+++++ 1.0453	1.0606 1.0501	1.0670 1.0189	1.0317	1.0554	Ave		1.0470				1.6		20.0			
1,1,1-Trichloroethane	+++++ 0.4825	0.5137 0.4722	0.4660 0.4609	0.4715	0.4740	Ave		0.4773			0.1000	3.6		20.0			
2-Butanone (MEK)	+++++ 0.2919	0.3469 0.3021	0.3055 0.2967	0.2998	0.2965	Ave		0.3056			0.0500	6.1		20.0			
1,1-Dichloropropene	+++++ 0.4557	0.4977 0.4542	0.5185 0.4435	0.4954	0.4555	Ave		0.4744				6.1		20.0			
2,2,4-Trimethylpentane	+++++ 1.1228	1.2981 1.1801	1.1696 1.1209	1.1581	1.1747	Ave		1.1749				5.1		20.0			
n-Heptane	+++++ 0.3130	0.3251 0.3410	0.3103 0.3144	0.3205	0.3246	Ave		0.3213				3.2		20.0			
Benzene	+++++ 1.6288	1.5810 1.6206	1.5224 1.5879	1.5301	1.6261	Ave		1.5853			0.5000	2.8		20.0			
Propionitrile	+++++ 1.7856	1.8141 1.8063	1.6828 1.6859	1.8143	1.7594	Ave		1.7641				3.3		20.0			
Methacrylonitrile	+++++ 0.1471	0.1324 0.1398	0.1349 0.1309	0.1495	0.1454	Ave		0.1400				5.3		20.0			
Tert-amyl methyl ether	+++++ 1.0321	0.9149 1.0135	0.9687 1.0024	1.0215	1.0148	Ave		0.9954				4.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.4639	0.6162 0.4423	0.5474 0.4353	0.4868	0.4599	Ave		0.4931			0.1000	13.4		20.0			
Isobutyl alcohol	+++++ 0.5723	0.4907 0.5900	0.4830 0.5798	0.5295	0.5536	Ave		0.5427				7.9		20.0			
Isopropyl acetate	+++++ 0.7372	0.6908 0.7356	0.6586 0.7320	0.7354	0.7327	Ave		0.7175				4.3		20.0			
Methylcyclohexane	+++++ 0.5608	0.5775 0.5842	0.5516 0.5942	0.5663	0.5716	Ave		0.5723			0.1000	2.5		20.0			
Trichloroethene	+++++ 0.3139	0.3573 0.3056	0.2923 0.2980	0.2927	0.3067	Ave		0.3095			0.2000	7.3		20.0			
Dibromomethane	+++++ 0.2019	0.1996 0.1993	0.2075 0.2002	0.2020	0.2013	Ave		0.2017				1.4		20.0			
n-Butanol	+++++ 0.3537	0.2704 0.3605	0.2961 0.3554	0.3126	0.3260	Ave		0.3249				10.5		20.0			
1,2-Dichloropropane	+++++ 0.3532	0.3493 0.3543	0.3455 0.3546	0.3514	0.3486	Ave		0.3510			0.1000	1.0		20.0			
Ethyl acrylate	+++++ 0.4851	0.4056 0.4815	0.3571 0.4792	0.4527	0.4676	Ave		0.4470				10.8		20.0			
Bromodichloromethane	+++++ 0.4468	0.3958 0.4429	0.4037 0.4420	0.4255	0.4330	Ave		0.4271			0.2000	4.7		20.0			
Methyl methacrylate	+++++ 0.0904	0.0684 0.0899	0.0826 0.0868	0.0906	0.0899	Ave		0.0855				9.5		20.0			
1,4-Dioxane	+++++ 1.2574	1.2069 1.3310	1.1400 1.4093	1.3077	1.2137	Ave		1.2666				7.1		20.0			
n-Propyl acetate	+++++ 0.5466	0.4062 0.5466	0.4720 0.5435	0.5408	0.5374	Ave		0.5133				10.6		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2501	0.1967 0.2408	0.2298 0.2339	0.2492	0.2451	Ave		0.2351				7.9		20.0			
cis-1,3-Dichloropropene	+++++ 0.6614	0.5805 0.6721	0.6177 0.6677	0.6167	0.6535	Ave		0.6385			0.2000	5.4		20.0			
Toluene	+++++ 1.7319	1.9353 1.6918	1.7395 1.6541	1.6571	1.7425	Ave		1.7360			0.4000	5.5		20.0			
Epichlorohydrin	0.2529 0.2578	0.2111 0.2617	0.2174 0.2551	0.2466	0.2595	Ave		0.2453				8.0		20.0			
2-Nitropropane	+++++ 0.0987	0.1280 0.1014	0.0761 0.1011	0.0994	0.0972	Ave		0.1003				15.1		20.0			
Tetrachloroethene	+++++ 0.3775	0.3484 0.3711	0.3616 0.3662	0.3533	0.3748	Ave		0.3647			0.2000	3.0		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.6283	2.3152 2.6278	2.3095 2.5187	2.5809	2.6531	Ave		2.5191			0.0500	5.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
trans-1,3-Dichloropropene	+++++ 0.6182	0.5453 0.6394	0.5073 0.6307	0.5722	0.6051	Ave		0.5883			0.1000	8.3		20.0			
1,1,2-Trichloroethane	+++++ 0.2964	0.2957 0.3062	0.2859 0.3066	0.2875	0.2913	Ave		0.2956			0.1000	2.8		20.0			
Ethyl methacrylate	+++++ 0.4783	0.3370 0.4735	0.3630 0.4773	0.4507	0.4711	Ave		0.4358				13.7		20.0			
Dibromochloromethane	+++++ 0.3759	0.3122 0.3960	0.3128 0.4035	0.3455	0.3601	Ave		0.3580			0.1000	10.3		20.0			
1,3-Dichloropropane	+++++ 0.6330	0.5766 0.6383	0.5534 0.6401	0.6059	0.6173	Ave		0.6092				5.5		20.0			
1,2-Dibromoethane	+++++ 0.3546	0.3128 0.3660	0.2905 0.3676	0.3313	0.3435	Ave		0.3381			0.1000	8.5		20.0			
n-Butyl acetate	+++++ 0.7250	0.6600 0.7491	0.6352 0.7501	0.6814	0.7131	Ave		0.7020				6.3		20.0			
2-Hexanone	+++++ 1.8642	1.6297 1.8542	1.5626 1.8016	1.8178	1.8658	Ave		1.7708			0.0500	7.0		20.0			
Chlorobenzene	+++++ 1.0369	1.1598 1.0184	1.0379 1.0078	1.0058	1.0390	Ave		1.0436			0.5000	5.1		20.0			
Ethylbenzene	+++++ 0.5848	0.5733 0.5728	0.5920 0.5664	0.5679	0.5783	Ave		0.5765			0.1000	1.6		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3526	0.3276 0.3587	0.3255 0.3558	0.3334	0.3471	Ave		0.3429				4.0		20.0			
m-Xylene & p-Xylene	+++++ 0.7157	0.6999 0.7109	0.6431 0.7091	0.6855	0.7174	Ave		0.6974			0.1000	3.8		20.0			
o-Xylene	+++++ 0.6949	0.6960 0.6807	0.6609 0.6832	0.6661	0.6901	Ave		0.6817			0.3000	2.0		20.0			
Bromoform	+++++ 0.2449	0.1808 0.2590	0.1873 0.2640	0.2131	0.2305	Ave		0.2257			0.1000	14.7		20.0			
Styrene	+++++ 1.2023	1.0684 1.1996	1.0239 1.1862	1.1238	1.1928	Ave		1.1424			0.3000	6.3		20.0			
n-Butyl acrylate	+++++ 0.3288	0.2131 0.3366	0.2459 0.3344	0.2990	0.3264	Ave		0.2978				16.5		20.0			
Isopropylbenzene	+++++ 1.8544	1.9098 1.8180	1.8482 1.8201	1.7580	1.8569	Ave		1.8379			0.1000	2.5		20.0			
Amyl acetate (mixed isomers)	+++++ 1.6718	1.4852 1.6953	1.2146 1.6549	1.5660	1.6372	Ave		1.5607				10.8		20.0			
Bromobenzene	+++++ 0.8274	0.8256 0.8133	0.7925 0.8021	0.8376	0.8029	Ave		0.8145				2.0		20.0			
N-Propylbenzene	+++++ 4.2695	4.2087 4.1907	4.2589 4.1422	4.1042	4.2547	Ave		4.2041				1.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1,2,2-Tetrachloroethane	+++++ 0.8809	0.9157 0.8961	0.8435 0.8707	0.8895	0.8684	Ave		0.8807			0.3000	2.6		20.0			
2-Chlorotoluene	+++++ 2.9212	2.9551 2.8439	2.8661 2.7830	2.7905	2.8707	Ave		2.8615				2.2		20.0			
4-Ethyltoluene	+++++ 3.5153	3.4311 3.4641	3.3192 3.3144	3.3618	3.5081	Ave		3.4163				2.5		20.0			
1,2,3-Trichloropropane	+++++ 0.2514	0.2347 0.2572	0.2341 0.2559	0.2686	0.2547	Ave		0.2510				5.0		20.0			
1,3,5-Trimethylbenzene	+++++ 2.9738	3.0914 2.9046	2.7367 2.9013	2.8594	2.9500	Ave		2.9167				3.7		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3005	0.3599 0.3120	0.3137 0.3169	0.2891	0.2872	Ave		0.3114				7.9		20.0			
4-Chlorotoluene	+++++ 2.6937	2.6192 2.6747	2.6773 2.6527	2.5367	2.6209	Ave		2.6393				2.0		20.0			
tert-Butylbenzene	+++++ 2.4658	2.2940 2.4153	2.3609 2.4133	2.3940	2.4629	Ave		2.4009				2.5		20.0			
1,2,4-Trimethylbenzene	+++++ 3.0244	2.7670 2.9255	2.9229 2.8125	2.8435	3.0053	Ave		2.9002				3.3		20.0			
Butyl Methacrylate	+++++ 1.1099	0.8271 1.1201	0.9554 1.0711	1.0090	1.0790	Ave		1.0245				10.2		20.0			
sec-Butylbenzene	+++++ 3.7744	3.8342 3.7320	3.6916 3.7317	3.6260	3.7850	Ave		3.7393				1.8		20.0			
1,3-Dichlorobenzene	+++++ 1.5763	1.5974 1.5554	1.4752 1.5021	1.5508	1.5472	Ave		1.5435			0.6000	2.7		20.0			
4-Isopropyltoluene	+++++ 3.1847	3.0189 3.1594	3.0097 3.1153	3.0487	3.1813	Ave		3.1026				2.5		20.0			
1,4-Dichlorobenzene	+++++ 1.6086	1.9978 1.5985	1.7280 1.5768	1.5924	1.5955	Ave		1.6711			0.5000	9.1		20.0			
1,2,3-Trimethylbenzene	+++++ 3.1525	3.0697 3.0574	3.0237 2.9804	2.9640	3.1219	Ave		3.0528				2.3		20.0			
Indan	+++++ 3.0416	2.9842 2.9700	2.7725 2.8765	2.9851	3.0263	Ave		2.9509				3.2		20.0			
Benzyl chloride	+++++ 0.3250	0.3298 0.3489	0.2824 0.3138	0.3245	0.3355	Ave		0.3228				6.5		20.0			
p-Diethylbenzene	+++++ 1.6994	1.7283 1.7049	1.5493 1.6384	1.5680	1.6635	Ave		1.6503				4.2		20.0			
n-Butylbenzene	+++++ 3.0309	2.9383 3.0476	2.9040 3.0346	2.8225	3.0005	Ave		2.9684				2.8		20.0			
1,2-Dichlorobenzene	+++++ 1.5279	1.4925 1.4916	1.3576 1.4671	1.4838	1.4879	Ave		1.4726			0.4000	3.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 2.7950	2.6246 2.7989	2.4325 2.6806	2.6381	2.7402	Ave		2.6729				4.7		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1621	0.1515 0.1714	0.1446 0.1697	0.1543	0.1619	Ave		0.1594			0.0500	6.1		20.0			
1,3,5-Trichlorobenzene	+++++ 1.1257	1.1359 1.1302	1.0799 1.0716	1.0828	1.1274	Ave		1.1076				2.5		20.0			
1,2,4-Trichlorobenzene	+++++ 0.9910	1.0111 1.0138	0.9631 0.9750	0.9101	0.9806	Ave		0.9778			0.2000	3.6		20.0			
Hexachlorobutadiene	+++++ 0.4891	0.4939 0.4870	0.4809 0.4667	0.4563	0.4840	Ave		0.4797				2.8		20.0			
Naphthalene	+++++ 2.1963	2.2898 2.3405	2.0287 2.3306	2.1167	2.1476	Ave		2.2072				5.3		20.0			
1,2,3-Trichlorobenzene	+++++ 0.8839	0.9470 0.8957	0.8691 0.8770	0.8504	0.8654	Ave		0.8841				3.5		20.0			
Dibromofluoromethane (Surr)	0.2675 0.2631	0.2677 0.2536	0.2674 0.2421	0.2956	0.2614	Ave		0.2648				5.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3608 0.3597	0.3592 0.3552	0.3609 0.3558	0.3982	0.3470	Ave		0.3621				4.2		20.0			
Toluene-d8 (Surr)	1.3680 1.3566	1.3707 1.3735	1.3663 1.3240	1.4727	1.3226	Ave		1.3693				3.4		20.0			
4-Bromofluorobenzene	0.3896 0.3888	0.3922 0.3890	0.3871 0.3794	0.4204	0.3806	Ave		0.3909				3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-512577/3	P43991.D
Level 2	STD05 460-512577/4	P43992.D
Level 3	STD1 460-512577/10	P43998.D
Level 4	STD5 460-512577/6	P43994.D
Level 5	STD20 460-512577/7	P43995.D
Level 6	STD50 460-512577/11	P43999.D
Level 7	STD200 460-512577/12	P44000.D
Level 8	STD500 460-512577/13	P44001.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 71454	731 408033	1247 1022651	5997	29153	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorodifluoromethane	FB	Ave	+++++ 182080	2585 1074361	4275 2643644	21521	89981	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloromethane	FB	Ave	+++++ 195287	2665 945477	4245 2533711	19458	81159	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl chloride	FB	Ave	+++++ 216410	3008 1015313	5201 2534101	23161	92854	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butadiene	FB	Ave	+++++ 181216	2416 984387	4416 2436607	20232	84262	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromomethane	BUT	Ave	+++++ 95949	1089 461494	2070 1086465	10103	41619	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloroethane	FB	Ave	+++++ 128059	1621 512041	3016 +++++	13698	53225	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
Pentane	TBAd 9	Ave	+++++ 57070	715 271627	1180 541455	5745	24127	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Trichlorofluoromethane	FB	Ave	+++++ 204746	2870 1081053	4661 2456172	22922	95911	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorofluoromethane	FB	Ave	+++++ 314063	3604 1341514	6341 3162162	31040	129522	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 244188	2582 1071691	4285 2568981	20728	102523	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl ether	FB	Ave	+++++ 166208	1611 686721	3294 1689012	14762	66409	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethanol	TBAd 9	Ave	+++++ 46273	357 188501	1061 489117	4030	19972	+++++ 2000	20.0 8000	40.0 20000	200	800
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 217367	2266 896625	4466 2270362	19850	89246	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloroethene	FB	Ave	+++++ 148561	1437 626559	2852 1627927	13622	60187	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Carbon disulfide	FB	Ave	+++++ 580228	6589 2509366	11376 6319407	48603	227224	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 157119	1583 676939	2674 1652510	13835	61826	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Iodomethane	FB	QuaF	+++++ 151223	443 779344	997 1869659	5109	40377	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclopentene	FB	Ave	+++++ 429126	4315 1847111	7436 4652524	37198	174651	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acrolein	TBAd9	Ave	+++++ 40327	797 96566	1219 213013	6273	13537	+++++ 100	2.00 200	4.00 400	20.0	40.0
Allyl chloride	FB	Ave	+++++ 106664	1098 428968	2230 997981	9453	42512	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl alcohol	TBAd9	Ave	+++++ 138824	1901 567619	3435 1478313	13674	57779	+++++ 500	5.00 2000	10.0 5000	50.0	200
Methylene Chloride	FB	Ave	+++++ 188419	1930 769269	4227 1983949	16903	75569	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acetone	BUT	Ave	+++++ 272733	4060 1108439	6981 +++++	26782	113715	+++++ 250	2.50 1000	5.00 +++++	25.0	100
trans-1,2-Dichloroethene	FB	Ave	+++++ 171134	2108 708011	3648 1809744	14567	68511	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl acetate	FB	Ave	+++++ 291039	3067 1309468	6295 3533036	26849	132620	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Hexane	FB	Ave	+++++ 43114	545 206826	799 526596	4055	19137	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 567333	5557 2366496	10902 5968756	51185	225447	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 209939	2466 861495	4596 2283905	20450	84711	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acetonitrile	TBAd9	Ave	+++++ 268974	2729 1120870	5310 2612449	25476	107597	+++++ 500	5.00 2000	10.0 5000	50.0	200
Isopropyl ether	FB	Ave	+++++ 735634	7099 3058022	14258 7843897	65037	294050	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 161354	1576 699283	3037 1721606	14134	66792	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloroethane	FB	Ave	+++++ 354459	3484 1424431	6715 3676656	30734	142687	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acrylonitrile	FB	Ave	3692 821035	7708 3477210	15674 8587568	73491	332109	2.00 500	5.00 2000	10.0 5000	50.0	200
Tert-butyl ethyl ether	FB	Ave	+++++ 659685	6188 2764072	12311 7038025	60322	264338	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl acetate	FB	Ave	+++++ 967767	8420 4346516	20773 9581862	93993	417622	+++++ 100	1.00 400	2.00 1000	10.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	+++++ 207112	2134 812824	4071 2201969	17890	81951	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2-Dichloropropane	FB	Ave	+++++ 299057	3268 1209068	6022 2885315	25545	120337	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclohexane	FB	Ave	+++++ 355591	3727 1601535	6418 4069860	31162	145016	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorobromomethane	FB	Ave	+++++ 92756	979 355869	1724 895232	8295	36290	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloroform	FB	Ave	+++++ 337423	3501 1359391	6593 3476175	29693	136382	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon tetrachloride	FB	Ave	+++++ 237292	2444 1023213	4370 2566821	19835	90733	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl acetate	BUT	Ave	+++++ 48004	733 200967	984 511492	4443	19825	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Methyl acrylate	FB	Ave	+++++ 199879	2029 847640	3255 2150651	17309	77898	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tetrahydrofuran	BUT	Ave	+++++ 179071	1822 740178	3604 1880466	16141	72752	+++++ 100	1.00 400	2.00 1000	10.0	40.0
1,1,1-Trichloroethane	FB	Ave	+++++ 290175	3065 1204071	5440 3057022	25143	114741	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Butanone (MEK)	BUT	Ave	+++++ 125016	1490 532357	2580 1368933	11727	51090	+++++ 250	2.50 1000	5.00 2500	25.0	100
1,1-Dichloropropene	FB	Ave	+++++ 274013	2970 1158068	6053 2941387	26421	110256	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 675178	7746 3009091	13653 7434537	61761	284359	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Heptane	FB	Ave	+++++ 188238	1940 869499	3622 2085090	17093	78576	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzene	CBNZ d5	Ave	+++++ 809378	7732 3317155	14754 8458892	69217	324927	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Propionitrile	TBAd 9	Ave	+++++ 308938	3253 1297078	5977 3244698	29634	124027	+++++ 500	5.00 2000	10.0 5000	50.0	200
Methacrylonitrile	FB	Ave	+++++ 884305	7903 3564171	15749 8680209	79725	351963	+++++ 500	5.00 2000	10.0 5000	50.0	200
Tert-amyl methyl ether	FB	Ave	+++++ 620655	5459 2584186	11308 6648506	54476	245635	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloroethane	FB	Ave	+++++ 278958	3677 1127717	6390 2887076	25960	111335	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 247557	2200 1059163	4289 2789500	21623	97565	+++++ 1250	12.5 5000	25.0 12500	125	500
Isopropyl acetate	FB	Ave	+++++ 443322	4122 1875558	7688 4854972	39217	177364	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Methylcyclohexane	FB	Ave	+++++ 337227	3446 1489650	6439 3941042	30199	138356	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Trichloroethene	FB	Ave	+++++ 188758	2132 779143	3412 1976792	15612	74245	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromomethane	FB	Ave	+++++ 121417	1191 508107	2422 1327513	10771	48719	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butanol	TBAd9	Ave	+++++ 153000	1212 647153	2629 1710224	12763	57449	+++++ 1250	12.5 5000	25.0 12500	125	500
1,2-Dichloropropane	FB	Ave	+++++ 212409	2084 903424	4033 2352125	18738	84382	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl acrylate	FB	Ave	+++++ 291736	2420 1227607	4169 3177974	24141	113198	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromodichloromethane	FB	Ave	+++++ 268697	2362 1129194	4712 2931417	22689	104821	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl methacrylate	FB	Ave	+++++ 108770	816 458644	1928 1151908	9667	43516	+++++ 100	1.00 400	2.00 1000	10.0	40.0
1,4-Dioxane	DXE	Ave	+++++ 45781	1145 187320	2133 493984	4395	17884	+++++ 1000	25.0 4000	50.0 10000	100	400
n-Propyl acetate	FB	Ave	+++++ 328674	2424 1393729	5510 3604614	28842	130083	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 150408	1174 614004	2682 1551015	13288	59340	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 328664	2839 1375634	5986 3557150	27896	130579	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Toluene	CBNZd5	Ave	+++++ 860617	9465 3463017	16858 8811911	74964	348179	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Epichlorohydrin	BUT	Ave	2196 441586	3626 1844275	7344 4707180	38589	178915	5.00 1000	10.0 4000	20.0 10000	100	400
2-Nitropropane	FB	Ave	+++++ 118757	1528 517244	1776 1341328	10607	47049	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Tetrachloroethene	CBNZd5	Ave	+++++ 187595	1704 759626	3504 1950888	15981	74887	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 1125626	9943 4630462	19502 11621118	100949	457222	+++++ 250	2.50 1000	5.00 2500	25.0	100
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 307192	2667 1308875	4916 3360024	25883	120901	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 147292	1446 626671	2771 1633290	13006	58200	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl methacrylate	FB	Ave	+++++ 287623	2011 1207322	4237 3165446	24034	114032	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromochloromethane	CBNZd5	Ave	+++++ 186781	1527 810632	3031 2149619	15631	71960	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 314563	2820 1306565	5363 3410101	27408	123338	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 176224	1530 749225	2815 1958409	14987	68640	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 360286	3228 1533404	6156 3995867	30825	142483	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Hexanone	BUT	Ave	+++++ 798377	6999 3267257	13195 8312258	71101	321541	+++++ 250	2.50 1000	5.00 2500	25.0	100
Chlorobenzene	CBNZ d5	Ave	+++++ 515230	5672 2084629	10058 5368823	45498	207619	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylbenzene	CBNZ d5	Ave	+++++ 290591	2804 1172555	5737 3017188	25690	115549	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 175232	1602 734239	3154 1895228	15083	69351	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 355653	3423 1455206	6232 3777529	31009	143350	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
o-Xylene	CBNZ d5	Ave	+++++ 345313	3404 1393246	6405 3639479	30134	137892	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromoform	CBNZ d5	Ave	+++++ 121702	884 530193	1815 1406611	9639	46059	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Styrene	CBNZ d5	Ave	+++++ 597422	5225 2455571	9923 6319001	50839	238335	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 163391	1042 689046	2383 1781568	13528	65222	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 921488	9340 3721245	17911 9696150	79527	371045	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 441887	3891 1848711	6241 4728386	37324	175029	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromobenzene	DCBd 4	Ave	+++++ 218696	2163 886838	4072 2291767	19962	85837	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 1128549	11026 4569893	21884 11835023	97818	454851	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 232849	2399 977130	4334 2487868	21201	92838	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 772160	7742 3101153	14727 7951482	66506	306889	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 929191	8989 3777461	17055 9470008	80122	375036	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 66450	615 280467	1203 731165	6402	27233	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 786057	8099 3167369	14062 8289503	68150	315371	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 79427	943 340279	1612 905549	6891	30703	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 712015	6862 2916738	13757 7579213	60459	280188	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 651783	6010 2633834	12131 6895175	57058	263298	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 799429	7249 3190207	15019 8035938	67771	321286	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 293387	2167 1221473	4909 3060497	24048	115353	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 997668	10045 4069594	18969 10662268	86419	404639	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 416653	4185 1696105	7580 4291887	36962	165407	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 841790	7909 3445255	15465 8901205	72660	340095	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 425184	5234 1743140	8879 4505295	37953	170565	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 833284	8042 3334033	15537 8515754	70642	333748	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Indan	DCBd 4	Ave	+++++ 803974	7818 3238705	14246 8218681	71144	323522	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 85906	864 380450	1451 896498	7734	35862	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 449197	4528 1859149	7961 4681364	37371	177839	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butylbenzene	DCBd 4	Ave	+++++ 801141	7698 3323339	14922 8670529	67270	320768	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 403858	3910 1626557	6976 4191809	35363	159060	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 738786	6876 3052145	12499 7659157	62876	292939	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 42844	397 186942	743 484865	3678	17309	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 297545	2976 1232451	5549 3061743	25806	120523	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 261952	2649 1105553	4949 2785805	21690	104827	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 129274	1294 531050	2471 1333506	10874	51742	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Naphthalene	DCBd 4	Ave	+++++ 580545	5999 2552213	10424 6658897	50447	229589	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 512577

SDG No.:

Instrument ID: CVOAMS13 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/20/2018 02:35 Calibration End Date: 04/20/2018 07:16 Calibration ID: 67790

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 233644	2481 976745	4466 2505806	20267	92520	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromofluoromethane (Surr)	FB	Ave	156883 158217	159749 161669	156101 160561	157622	158205	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	211669 216299	214332 226432	210668 235968	212359	209977	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	665831 674097	670334 702842	662057 705324	666224	660714	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	189613 193205	191810 199073	187577 202108	190164	190141	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Apr-2018 02:35:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0070689-003
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:01:10 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:24:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 29 TBA-d9 (IS)	65	2.052	2.060	-0.008	0	361443	1000.0	1000.0	
35 Acrylonitrile	53	2.375	2.375	0.000	92	3692	2.00	2.29	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	156883	50.0	50.5	
* 49 2-Butanone-d5	46	3.084	3.091	-0.007	0	434203	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	211669	50.0	49.8	
* 62 Fluorobenzene	96	3.664	3.664	0.000	98	586588	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.545	4.545	0.000	0	36467	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	99	665831	50.0	50.0	
80 Epichlorohydrin	57	5.297	5.290	0.007	95	2196	5.00	5.16	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	486732	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	189613	50.0	49.8	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	98	258172	50.0	50.0	

Reagents:

ACROLEIN W_00075	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00069	Amount Added:	0.00	Units: uL	
14DIOXINTER_00083	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00048	Amount Added:	2.00	Units: uL	
Ethanol mix_00014	Amount Added:	0.00	Units: uL	
GAS Hi_00250	Amount Added:	0.00	Units: uL	
MIX I Hi_00093	Amount Added:	0.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

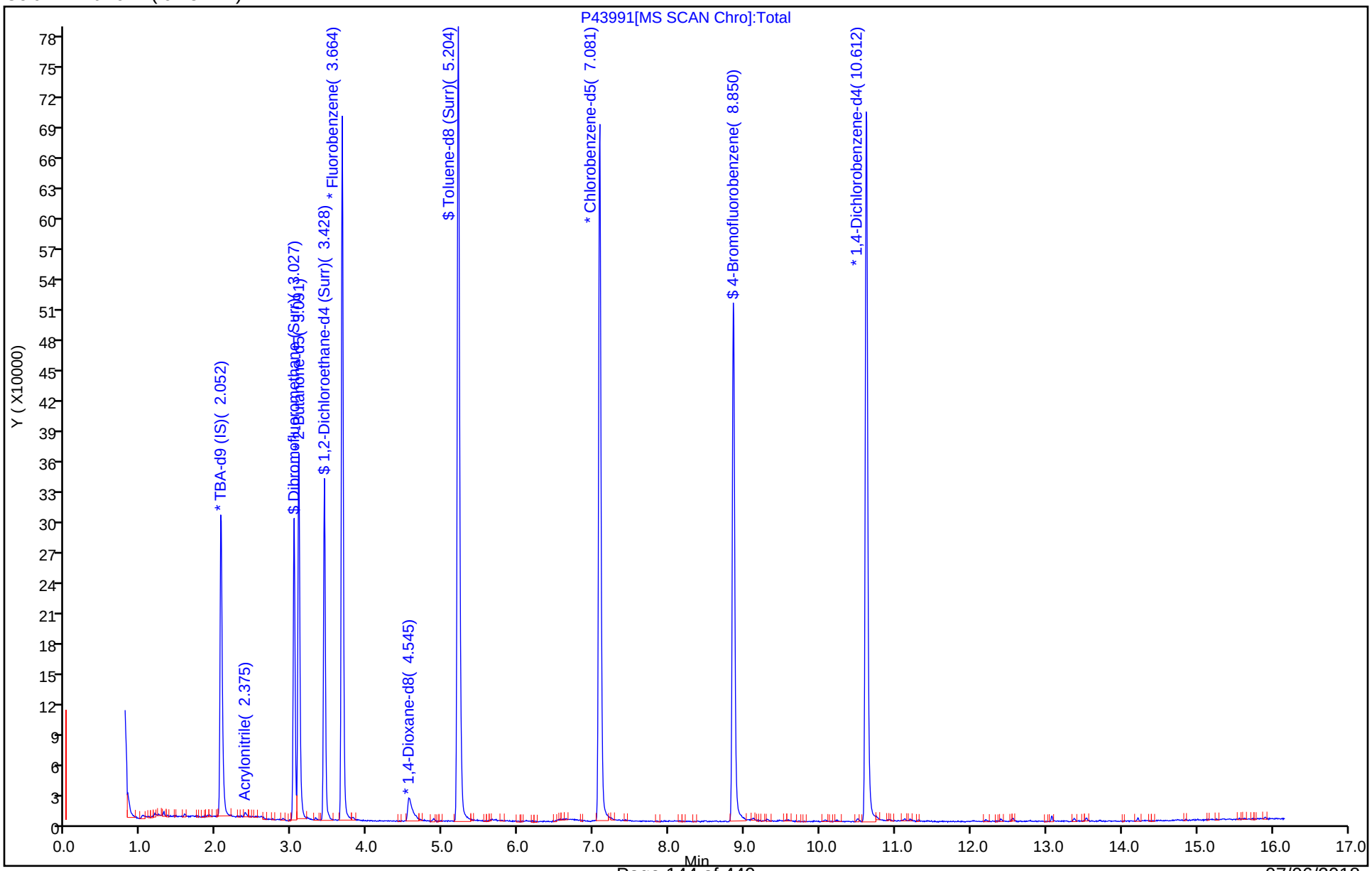
Report Date: 23-Apr-2018 14:01:41 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D

Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	STD8			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



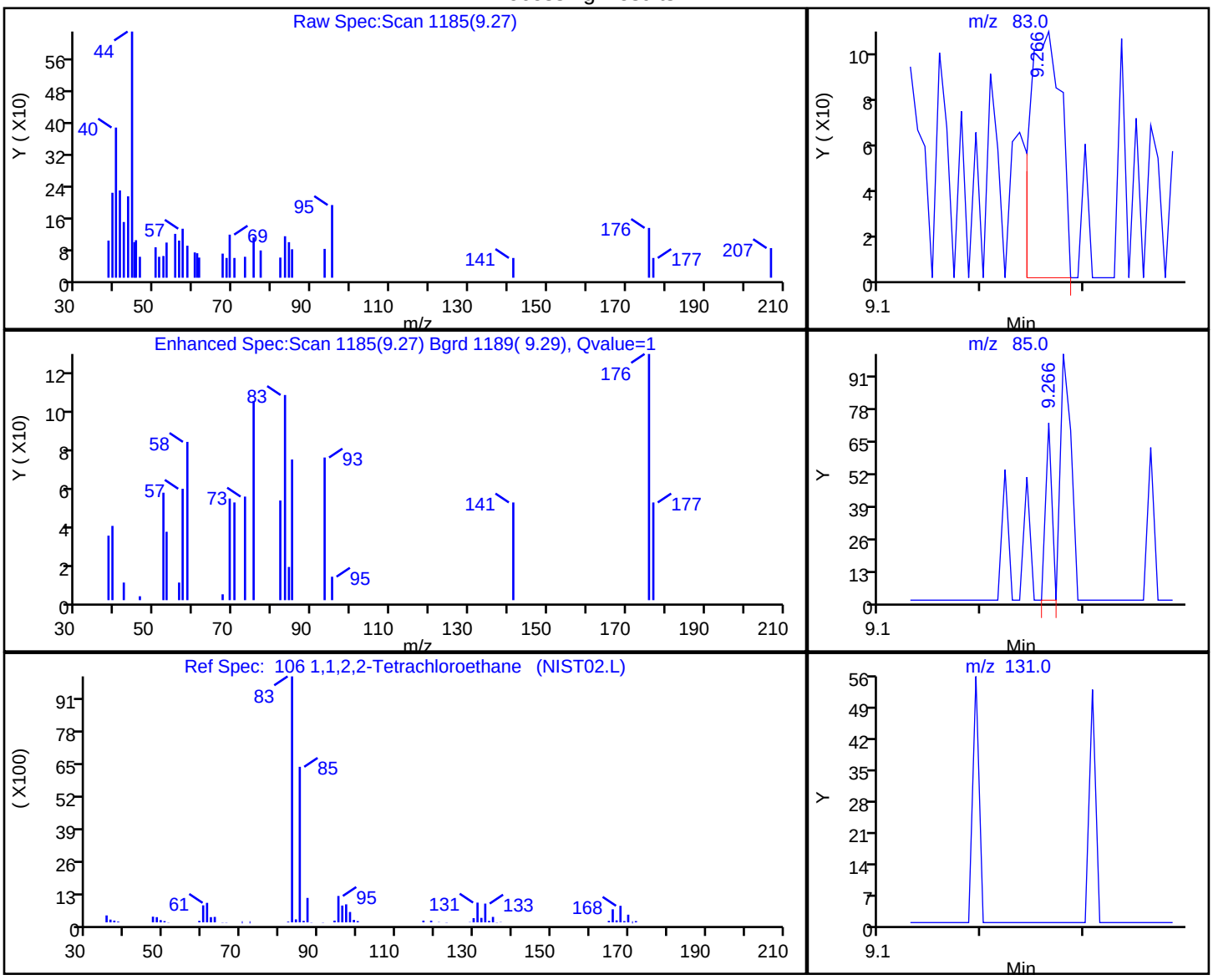
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

106 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
9.27	83.00	220	0.048379
9.27	85.00	31	
9.26	131.00	0	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

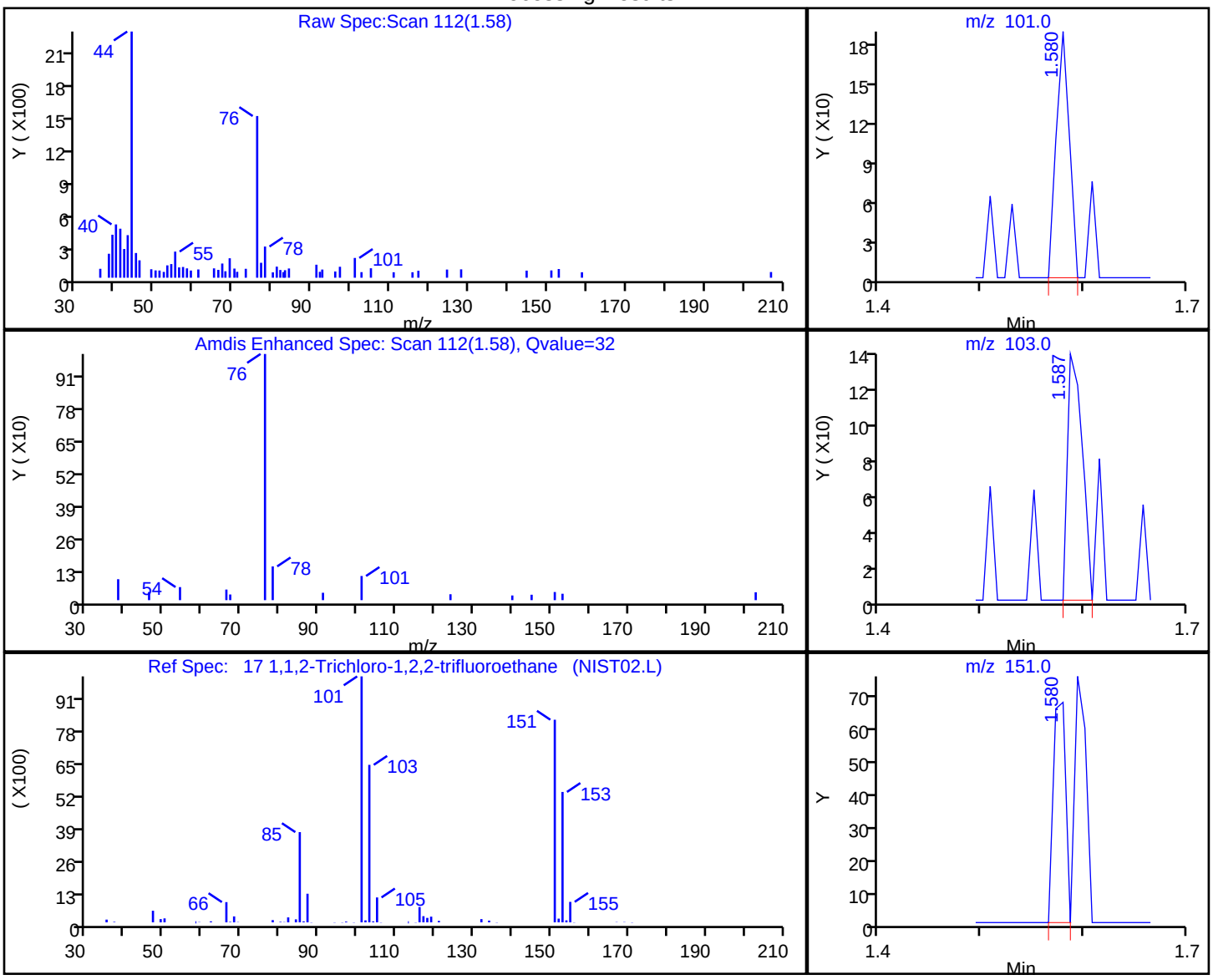
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

17 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Processing Results



RT	Mass	Response	Amount
1.58	101.00	164	0.054816
1.59	103.00	135	
1.58	151.00	58	
1.59	85.00	67	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

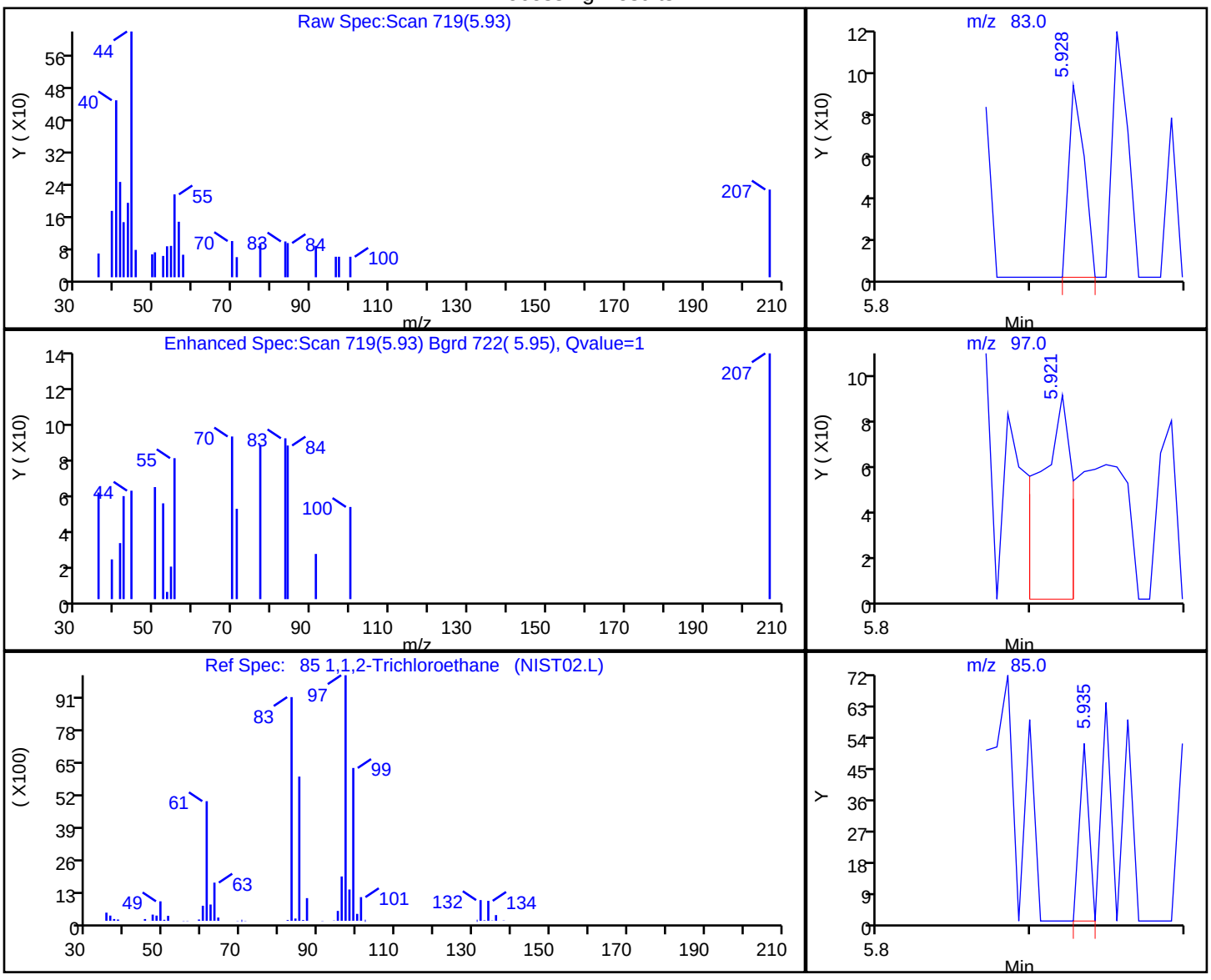
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

85 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
5.93	83.00	62	0.021543
5.92	97.00	131	
5.93	85.00	22	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

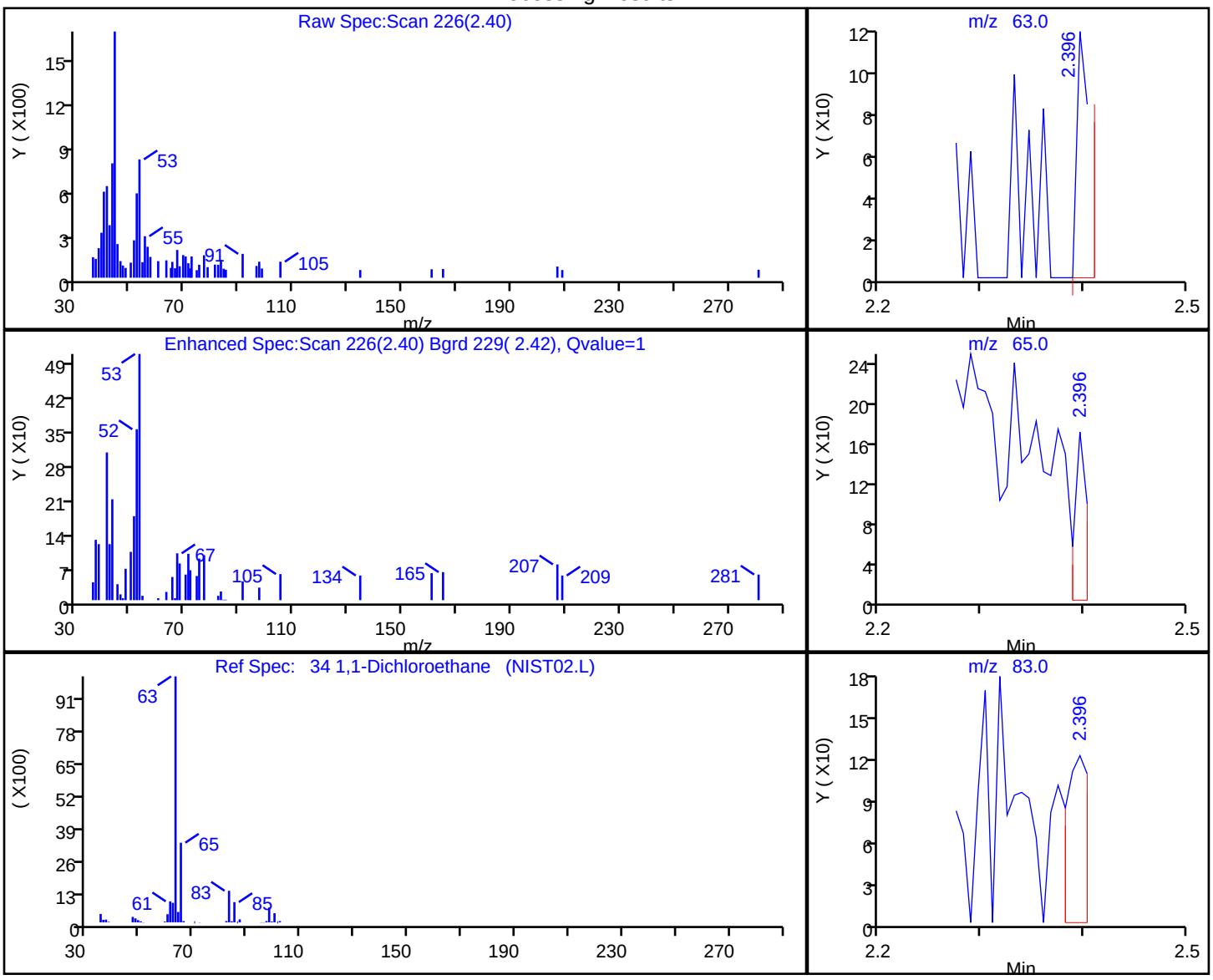
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
2.40	63.00	84	0.012445
2.40	65.00	138	
2.40	83.00	177	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

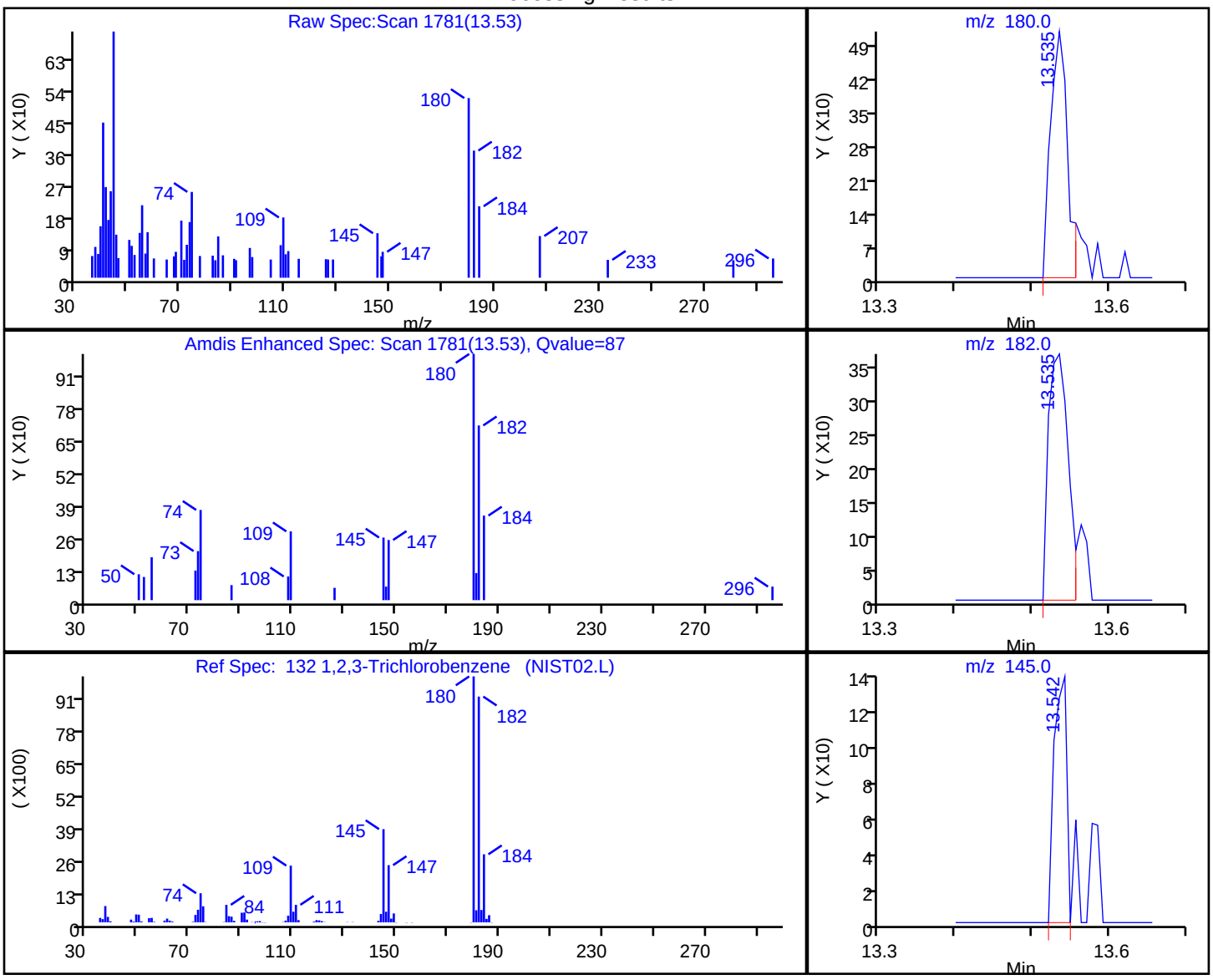
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trichlorobenzene, CAS: 87-61-6

Processing Results



RT	Mass	Response	Amount
13.53	180.00	786	0.172182
13.53	182.00	654	
13.54	145.00	159	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

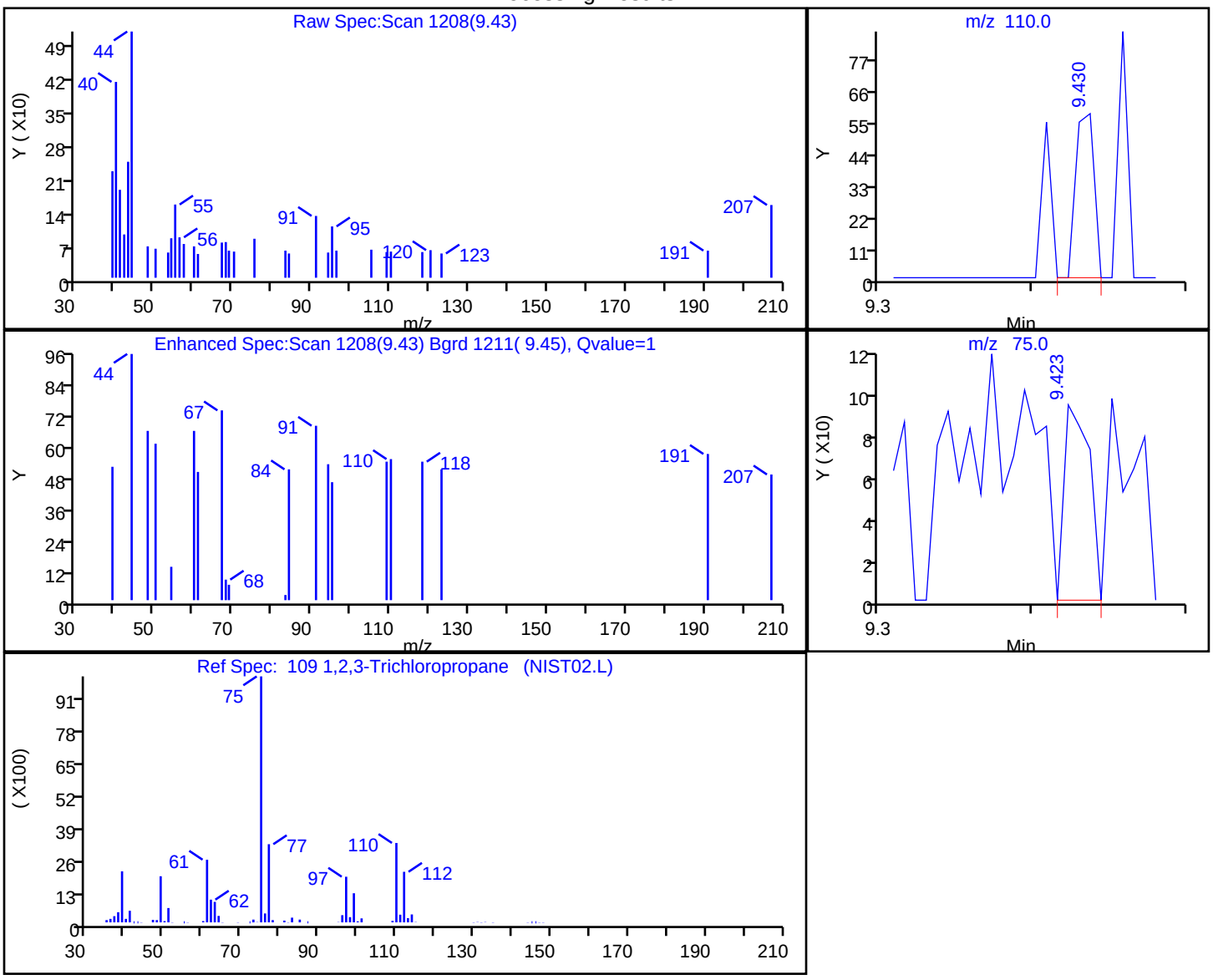
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

109 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
9.43	110.00	49	0.037814
9.42	75.00	105	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

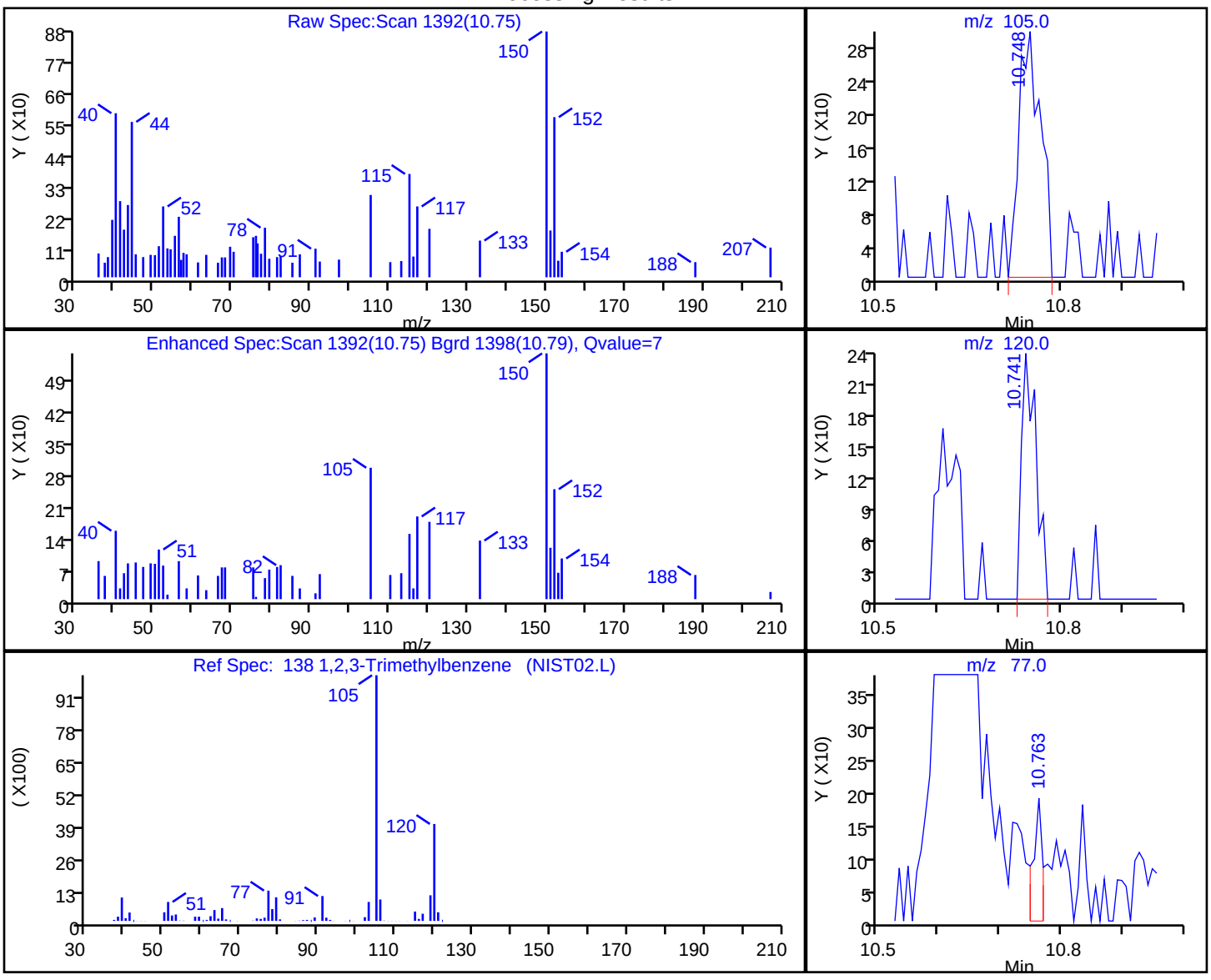
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

138 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.75	105.00	728	
10.74	120.00	393	
10.76	77.00	193	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

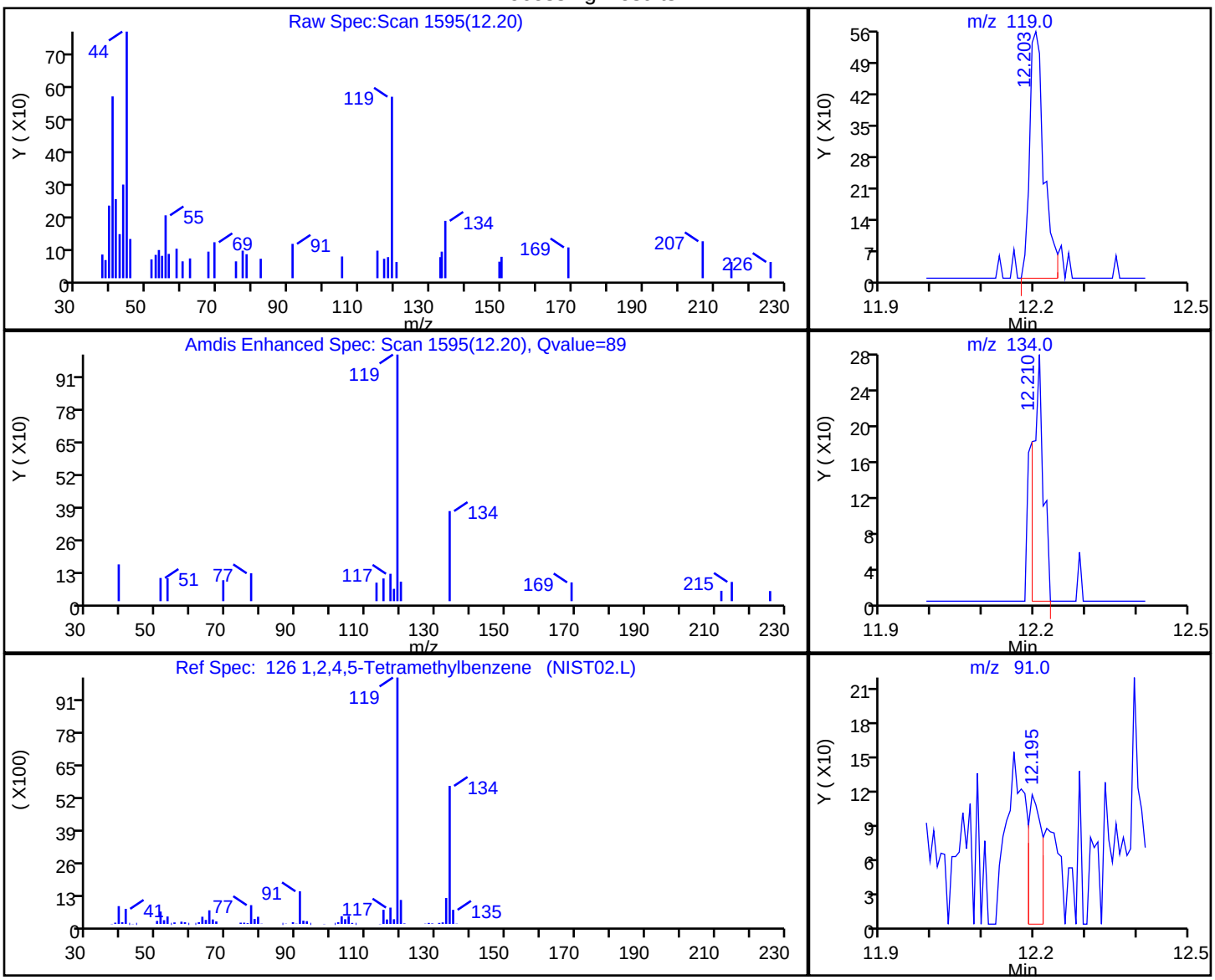
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

126 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
12.20	119.00	1087	0.078762
12.21	134.00	361	
12.20	91.00	206	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

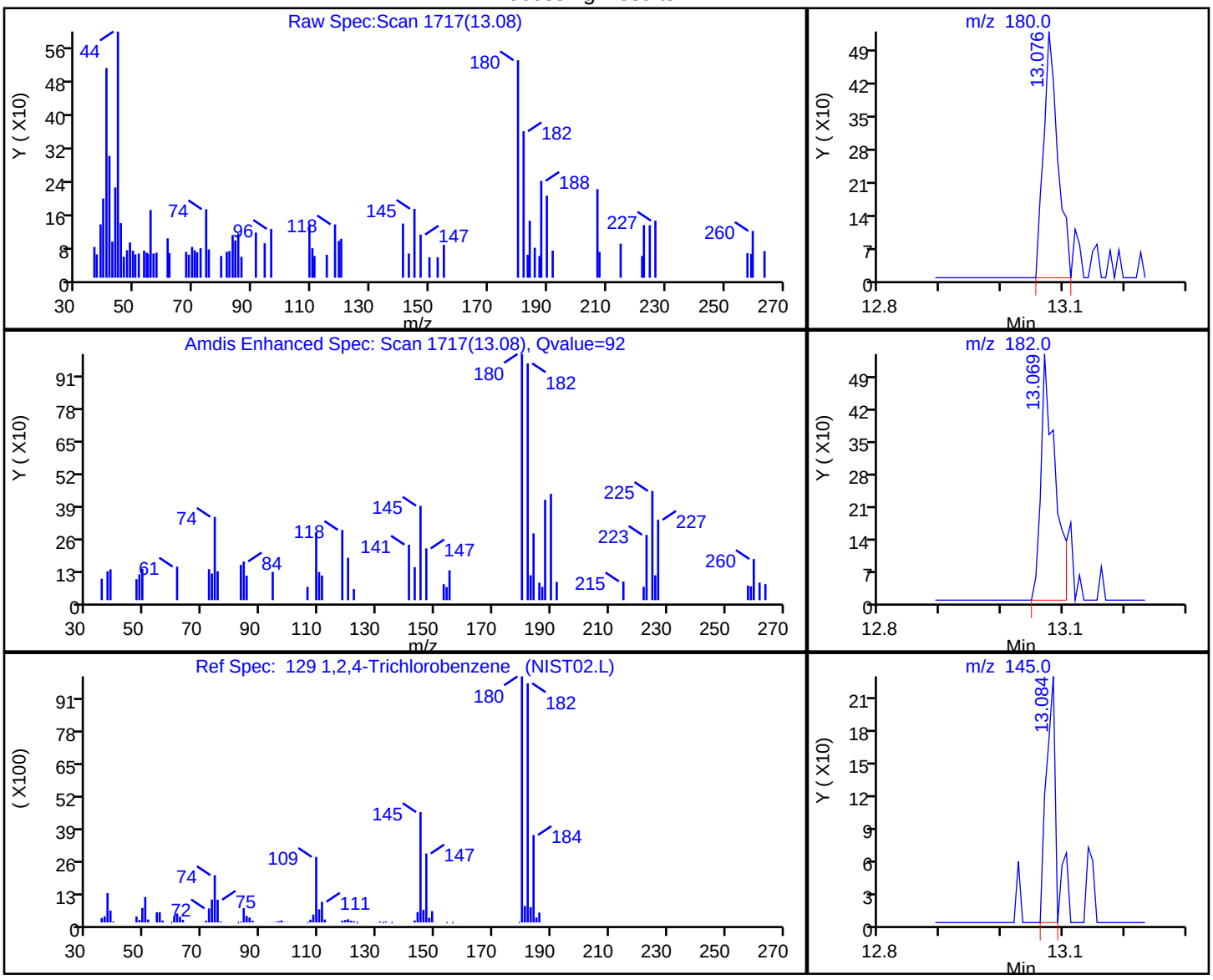
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

129 1,2,4-Trichlorobenzene, CAS: 120-82-1

Processing Results



RT	Mass	Response	Amount
13.08	180.00	848	0.167956
13.07	182.00	854	
13.08	145.00	220	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

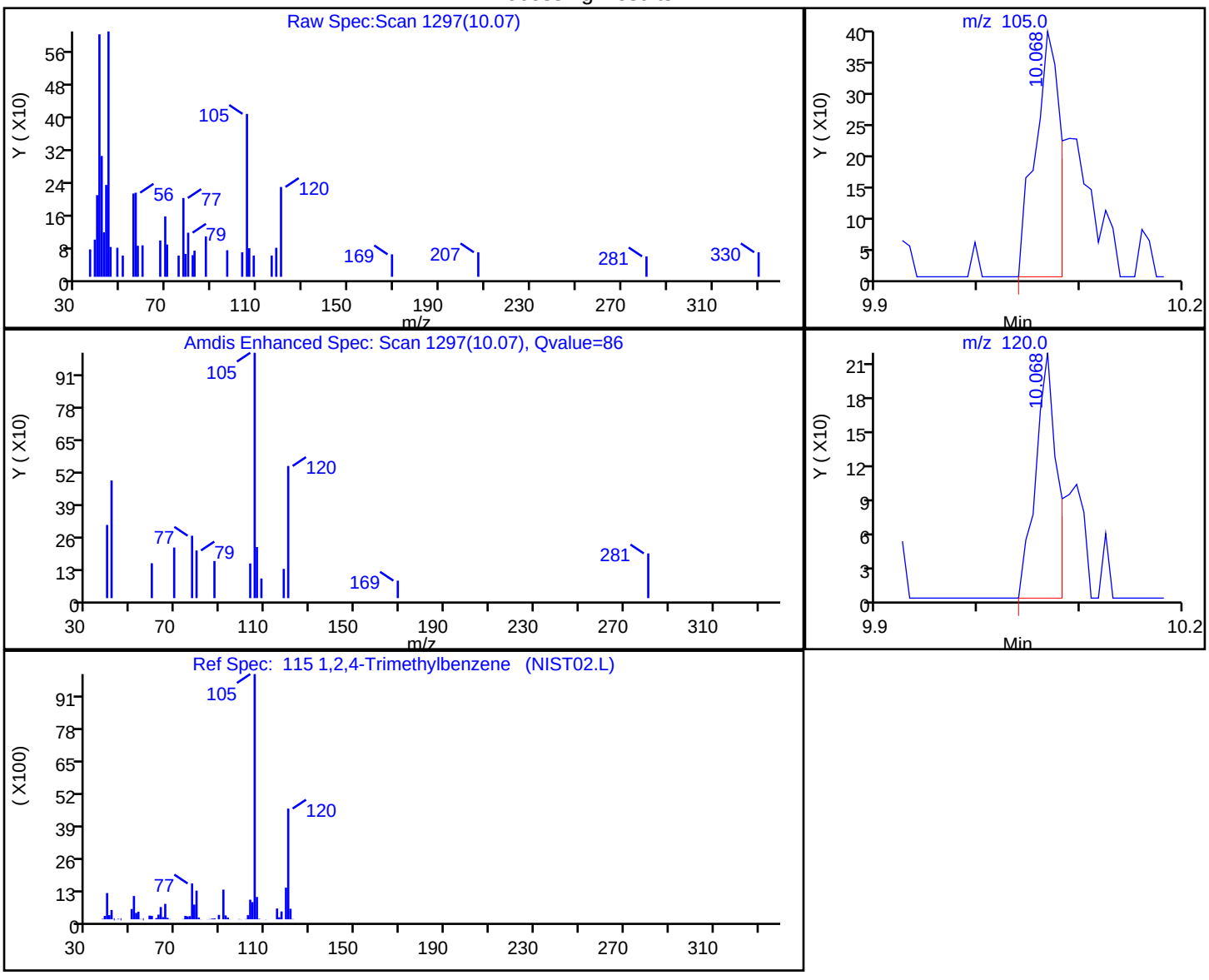
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.07	105.00	669	0.044675
10.07	120.00	314	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

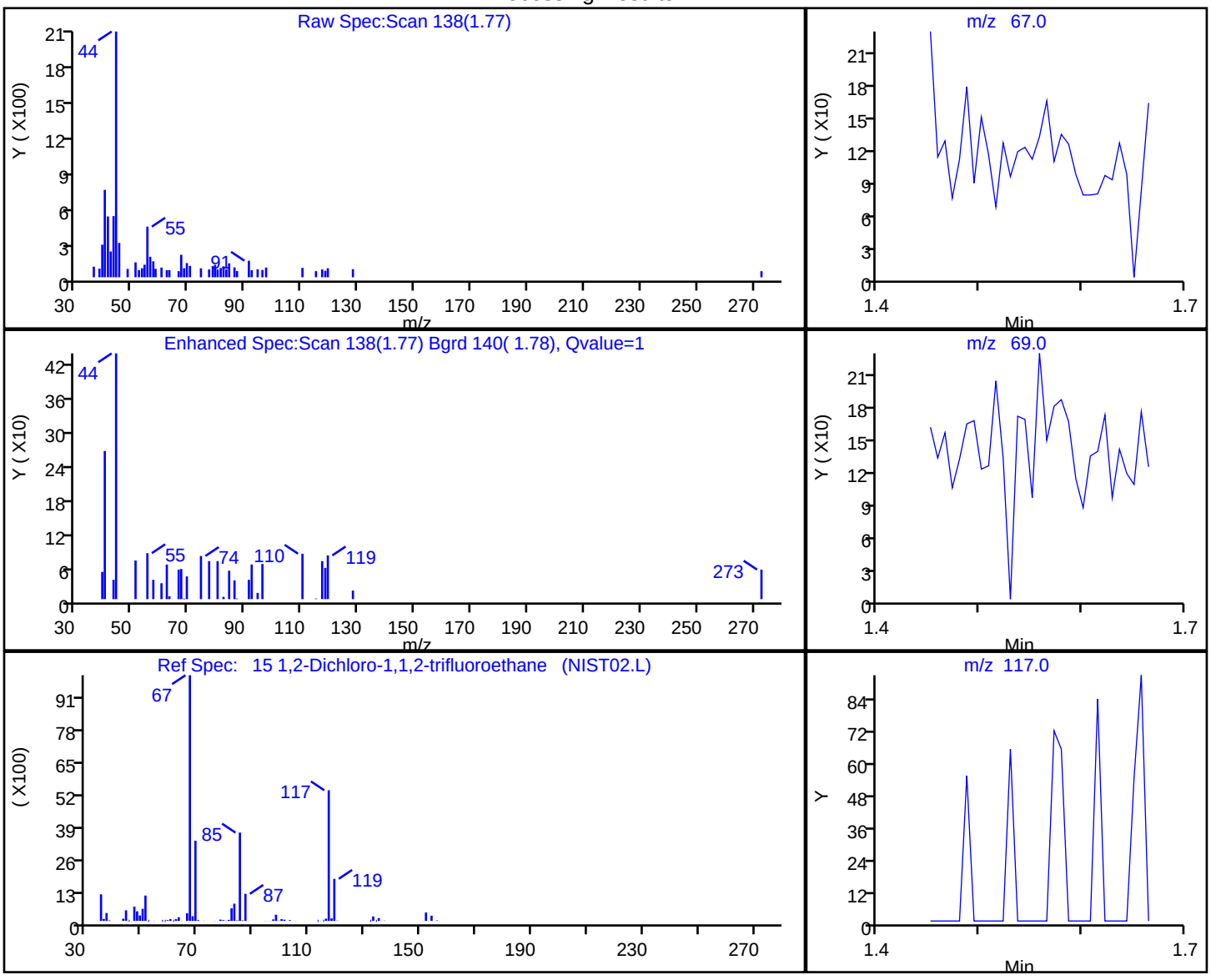
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Processing Results



RT	Mass	Response	Amount
1.77	67.00	368	0.085816
1.75	69.00	308	
1.77	117.00	29	
1.77	119.00	101	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

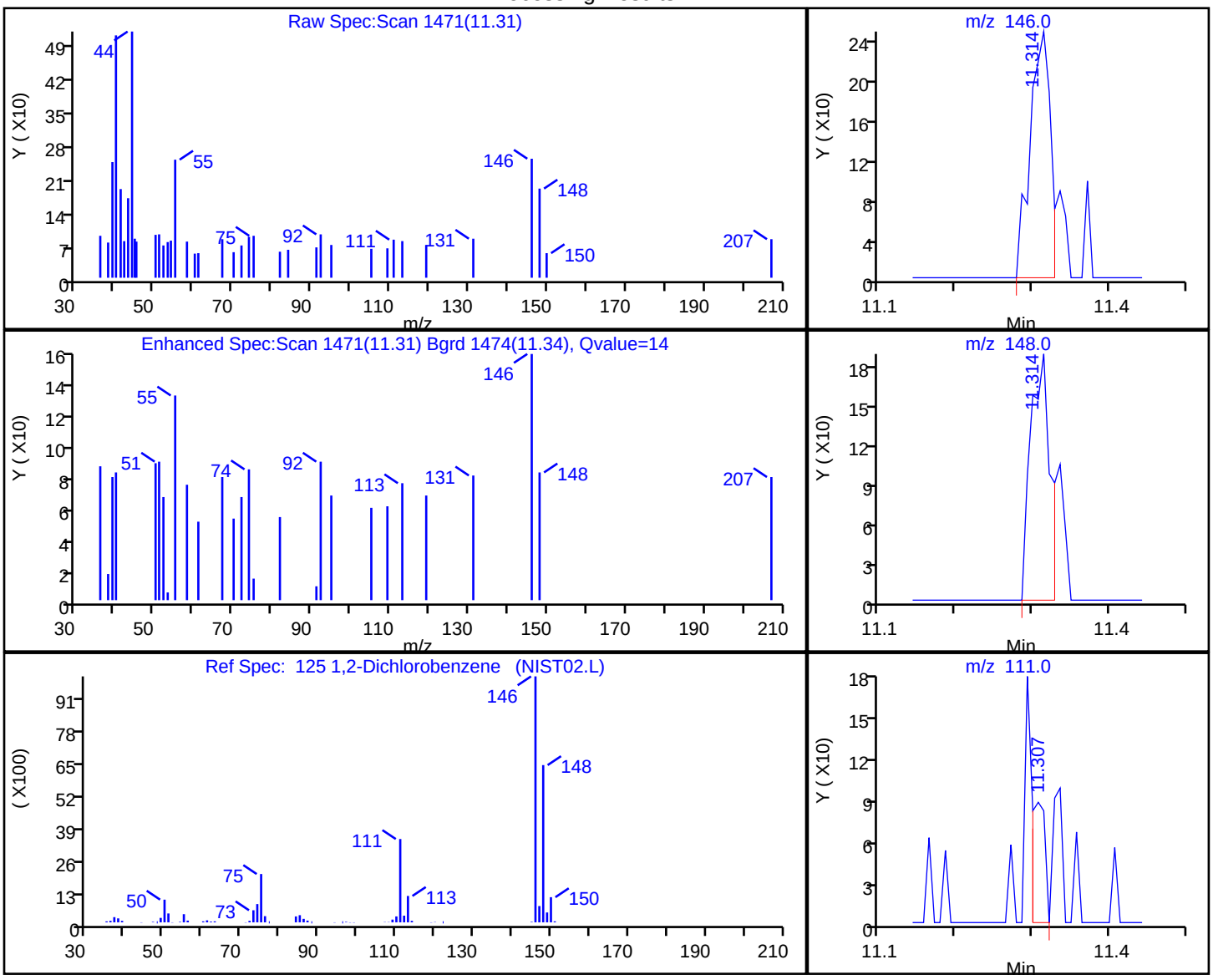
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

125 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
11.31	146.00	459	0.060365
11.31	148.00	330	
11.31	111.00	104	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

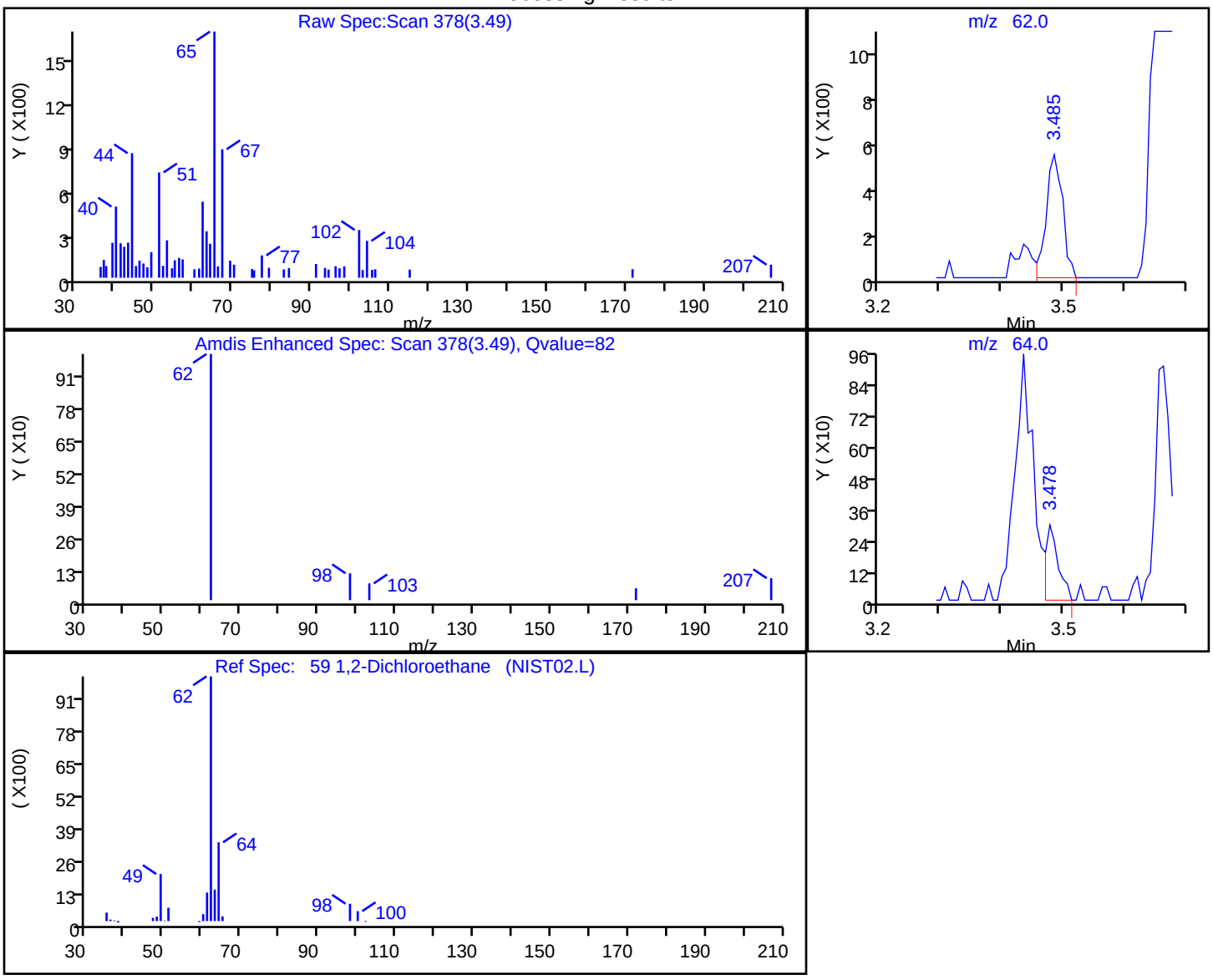
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
3.49	62.00	963	0.166461
3.48	64.00	420	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

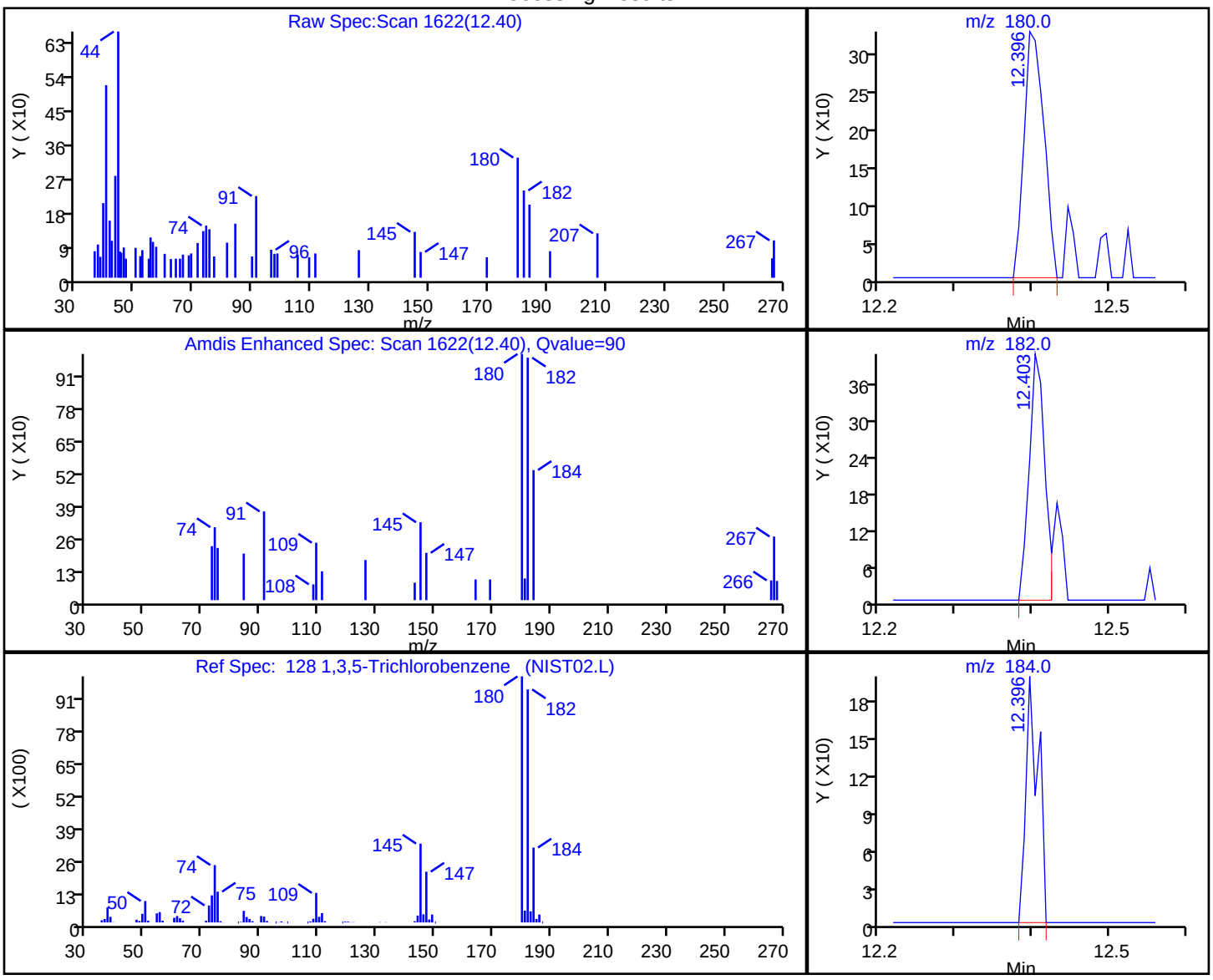
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

128 1,3,5-Trichlorobenzene, CAS: 108-70-3

Processing Results



RT	Mass	Response	Amount
12.40	180.00	583	0.102373
12.40	182.00	584	
12.40	184.00	222	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

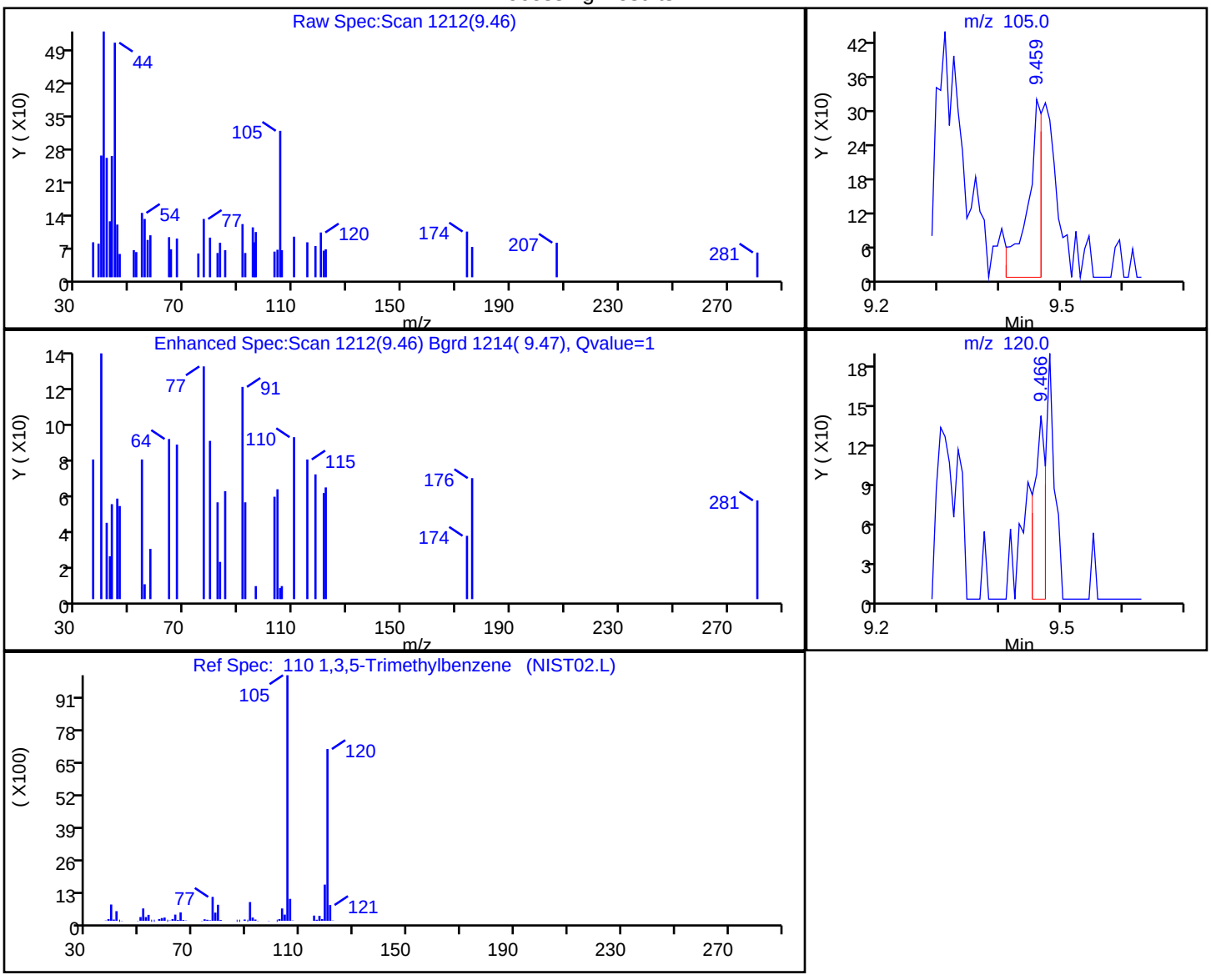
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

110 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
9.46	105.00	519	0.034461
9.47	120.00	180	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

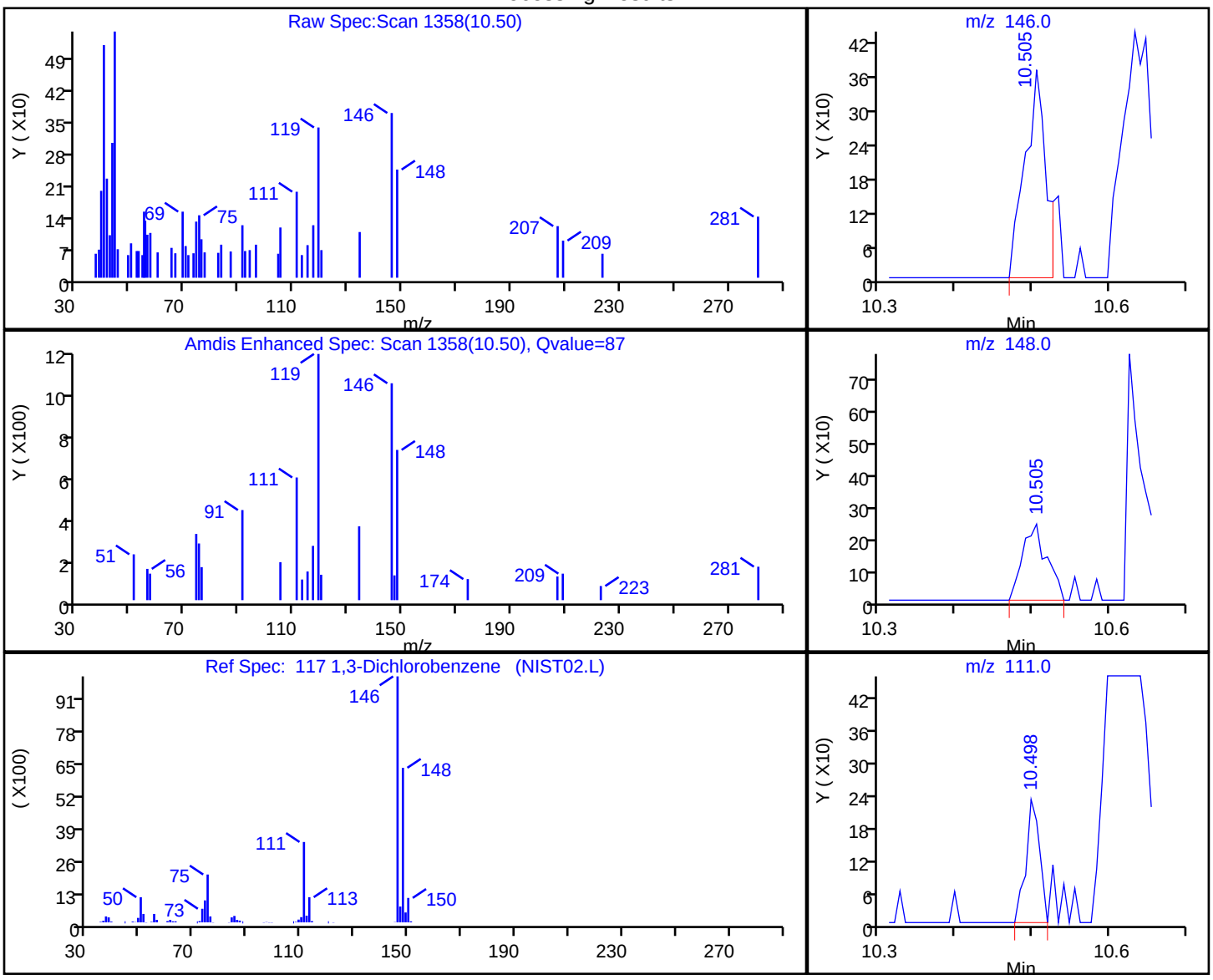
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

117 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.50	146.00	694	0.087079
10.50	148.00	526	
10.50	111.00	286	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

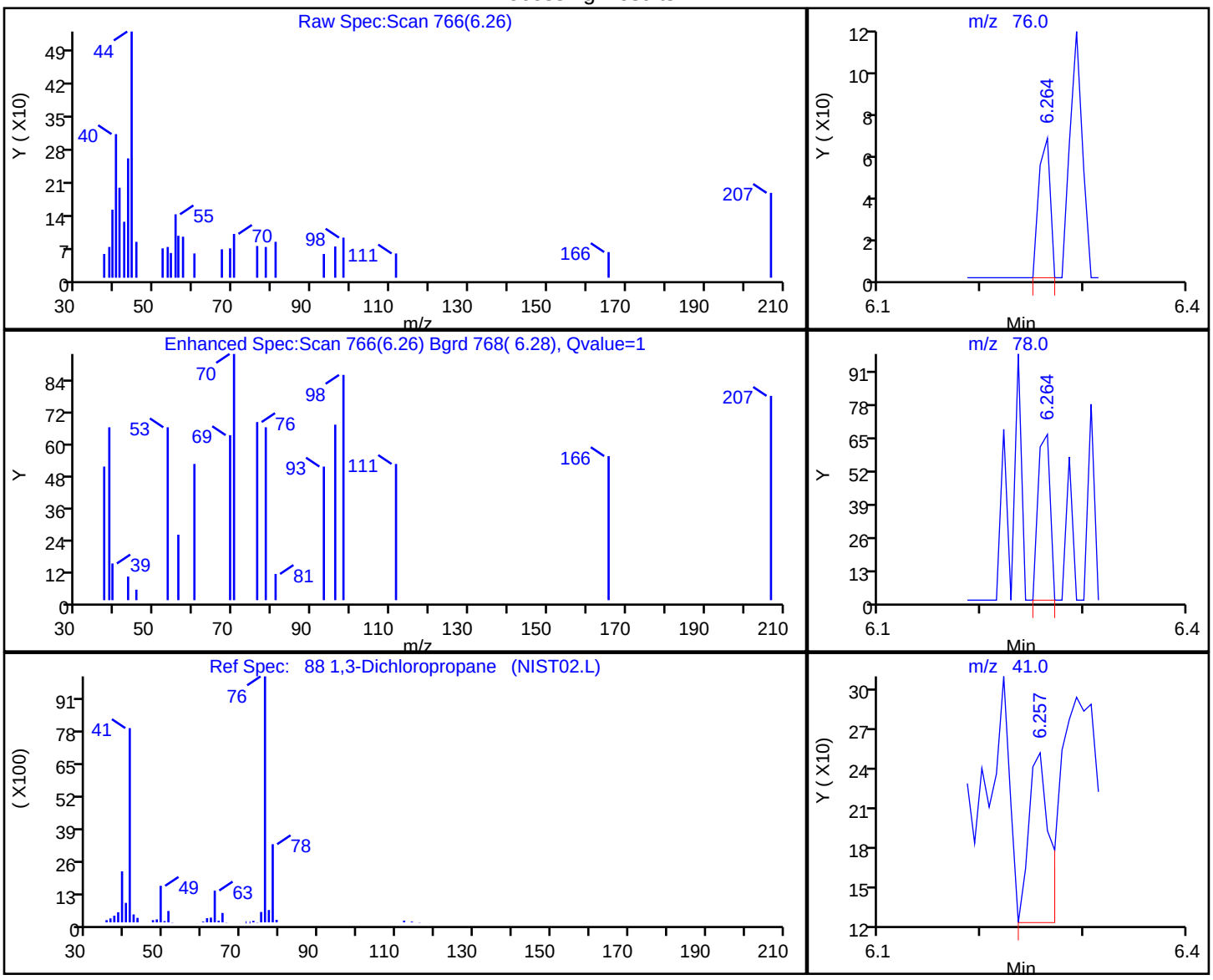
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

88 1,3-Dichloropropane, CAS: 142-28-9

Processing Results



RT	Mass	Response	Amount
6.26	76.00	53	0.008937
6.26	78.00	55	
6.26	41.00	168	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

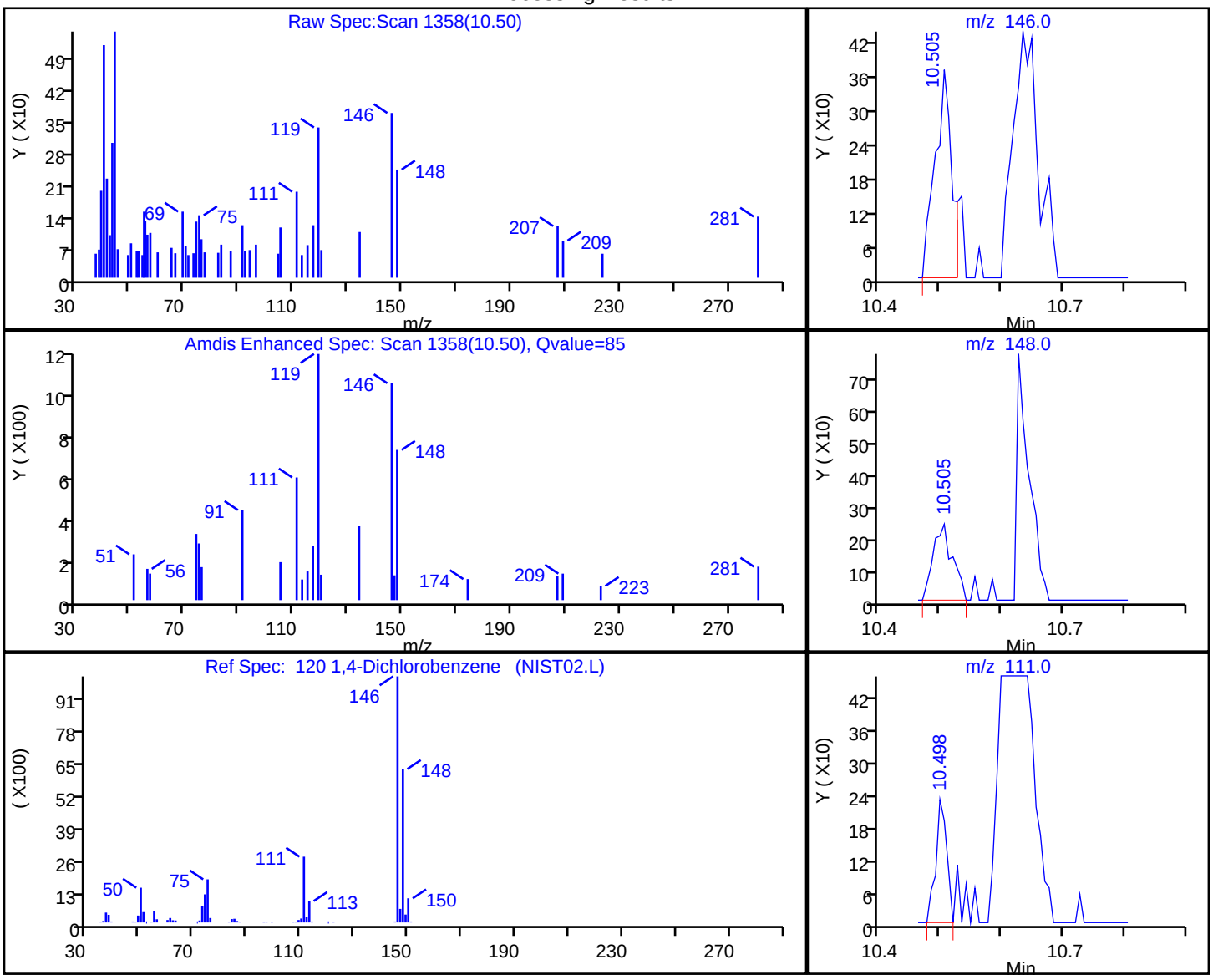
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
10.50	146.00	694	0.083356
10.50	148.00	526	
10.50	111.00	286	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

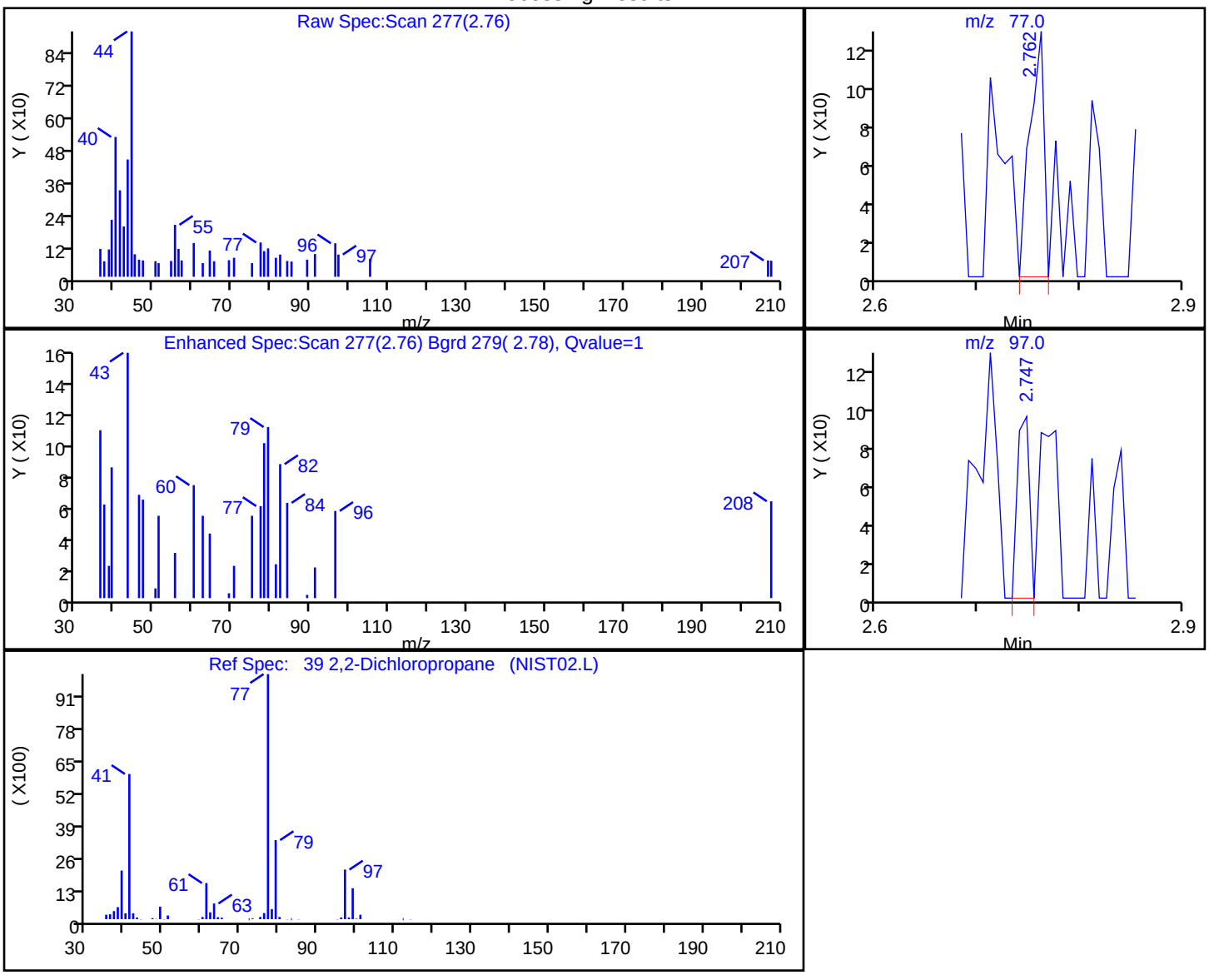
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Processing Results



RT	Mass	Response	Amount
2.76	77.00	122	0.021123
2.75	97.00	75	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

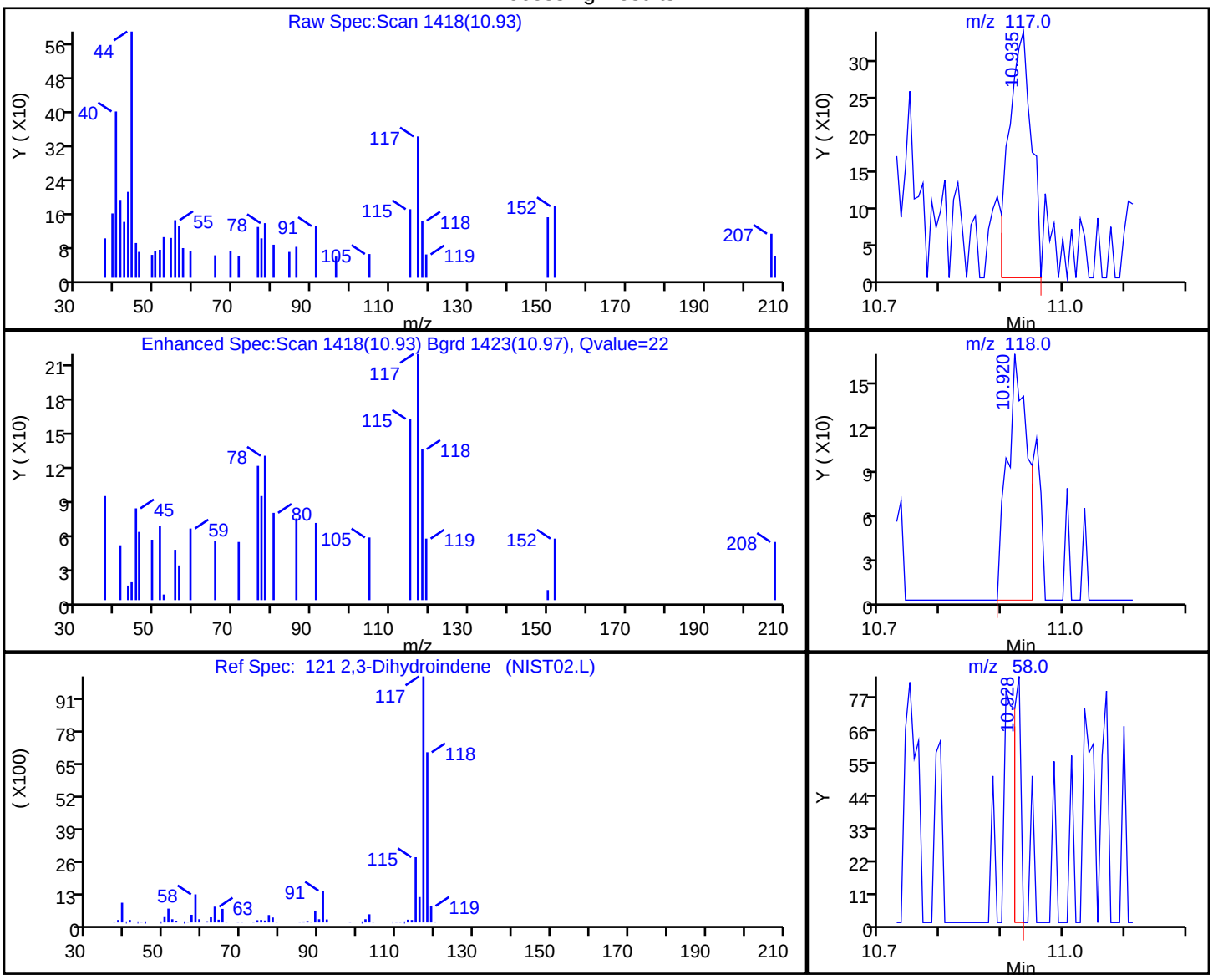
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.93	117.00	844	0.055393
10.92	118.00	370	
10.93	58.00	68	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

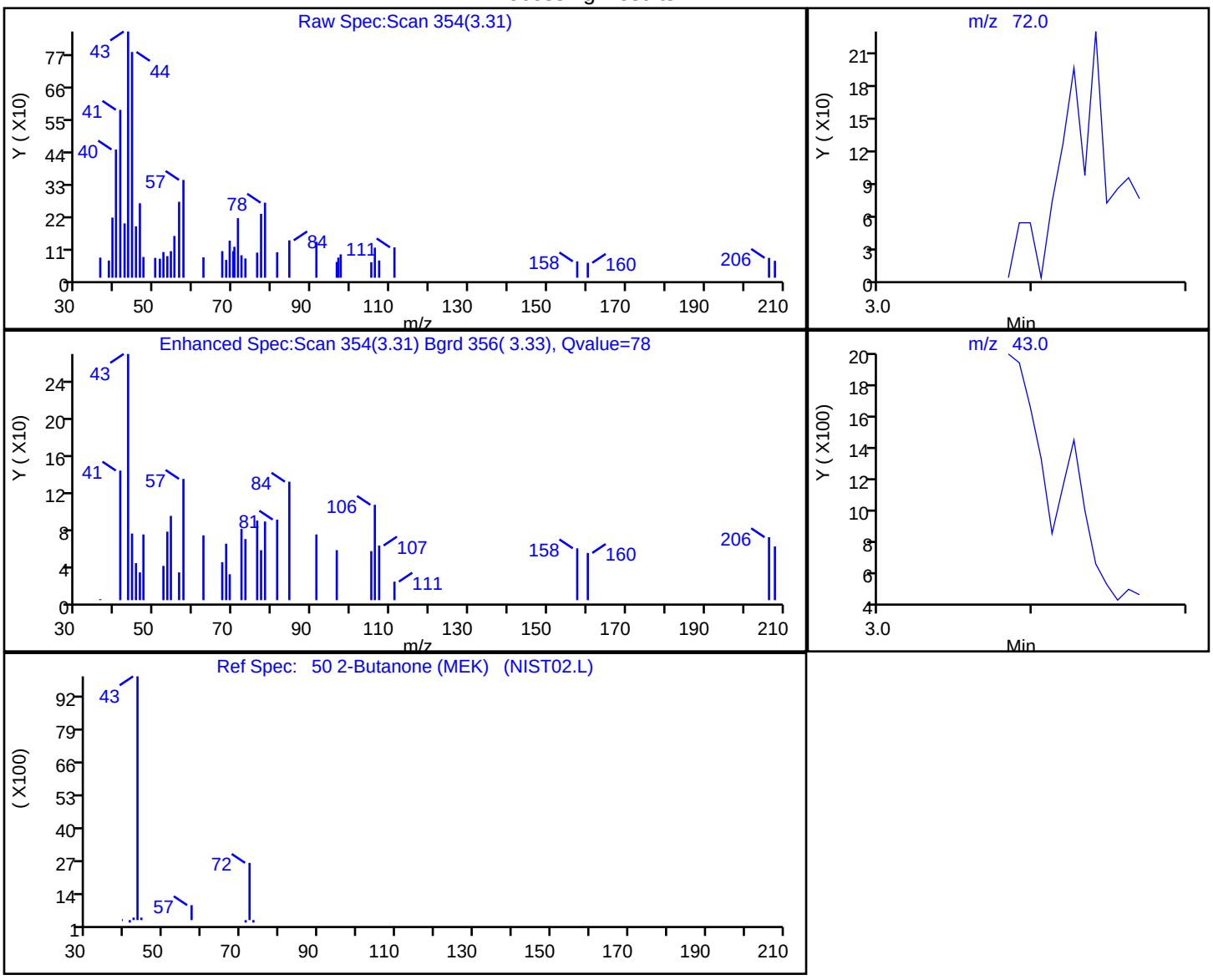
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

50 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.31	72.00	33	0.062068
3.31	43.00	1157	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

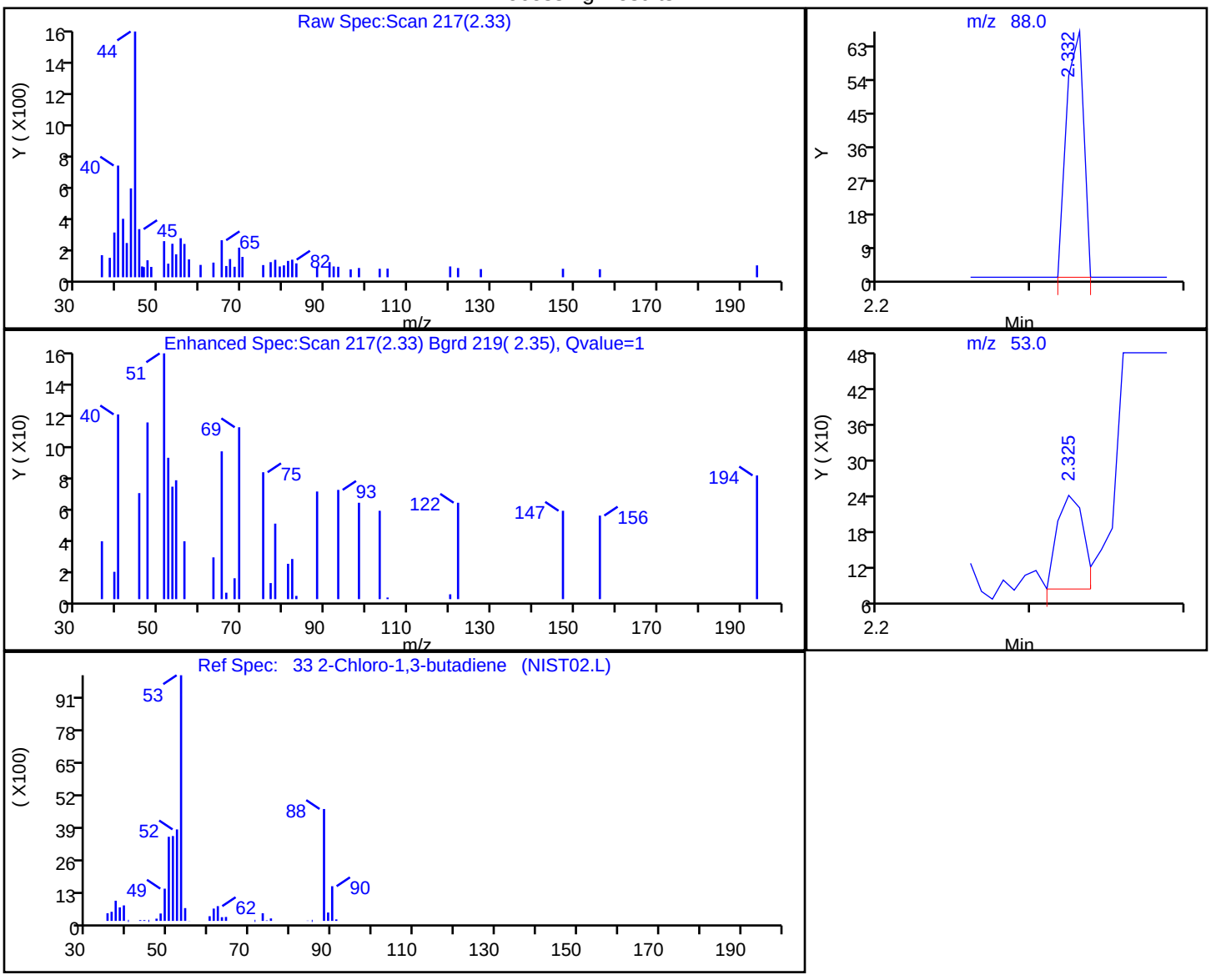
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

33 2-Chloro-1,3-butadiene, CAS: 126-99-8

Processing Results



RT	Mass	Response	Amount
2.33	88.00	52	0.015716
2.32	53.00	191	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

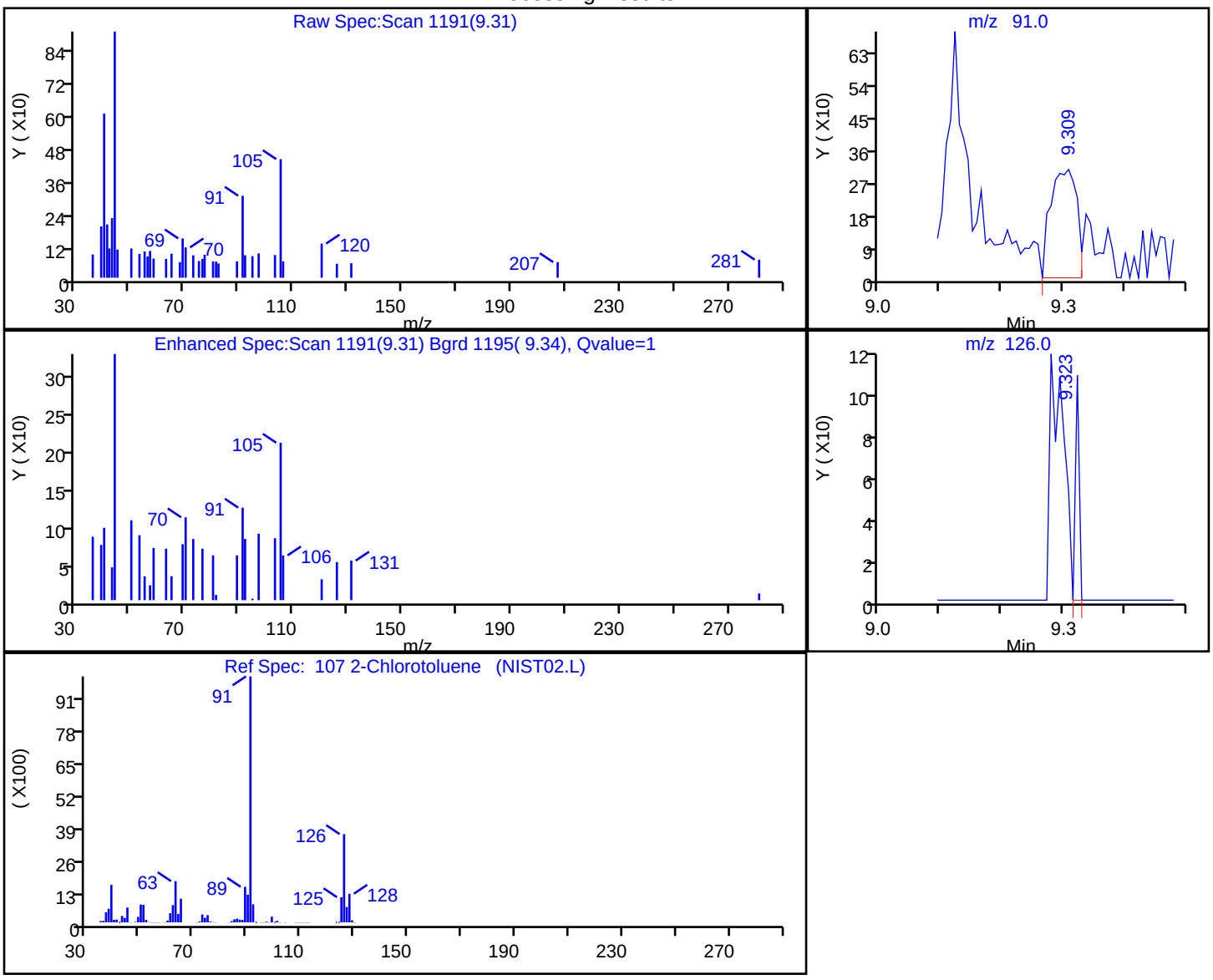
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

107 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
9.31	91.00	896	0.060642
9.32	126.00	45	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

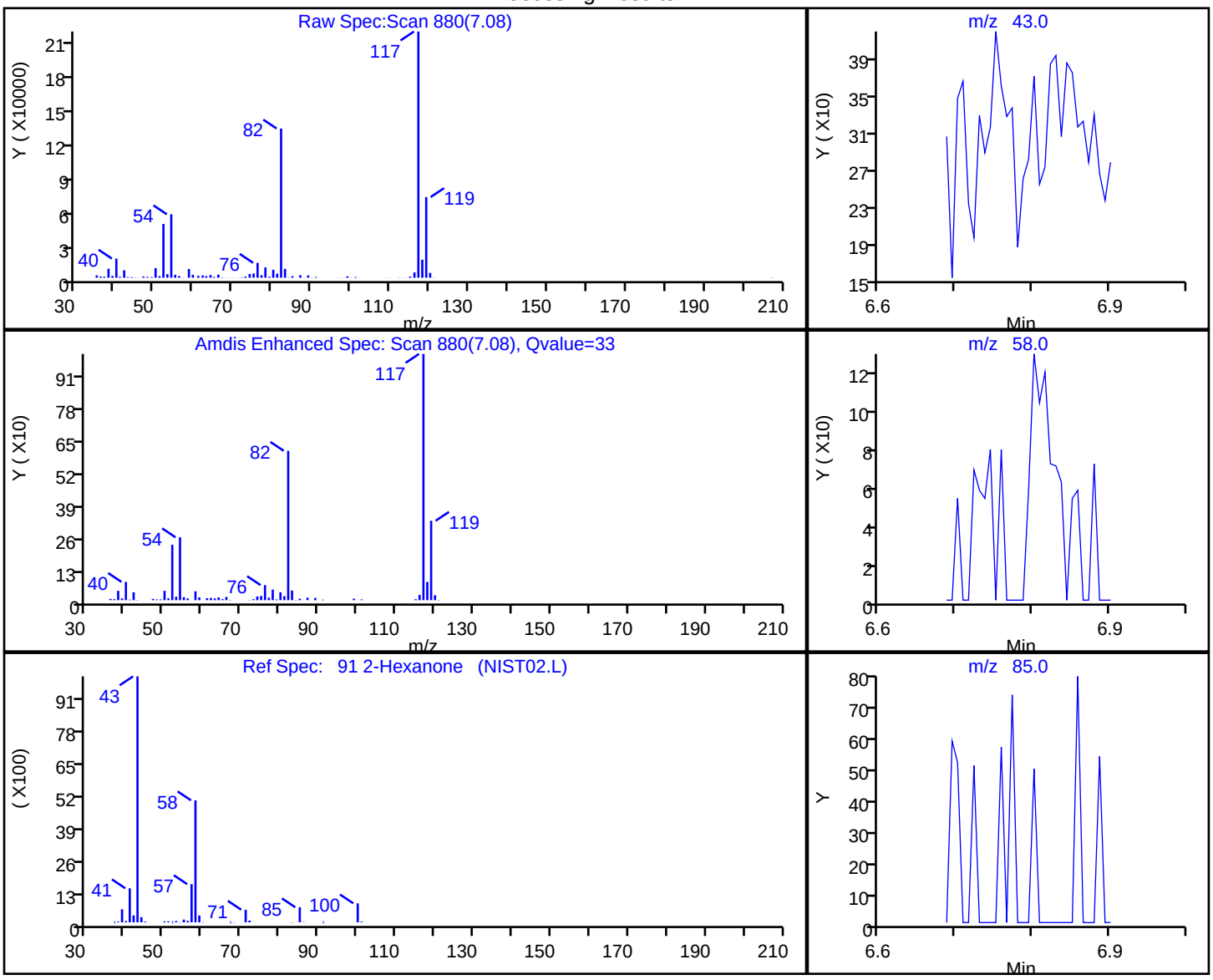
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

91 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
7.08	43.00	607	0.197359
7.08	58.00	17396	
7.08	85.00	3111	
7.08	100.00	208	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

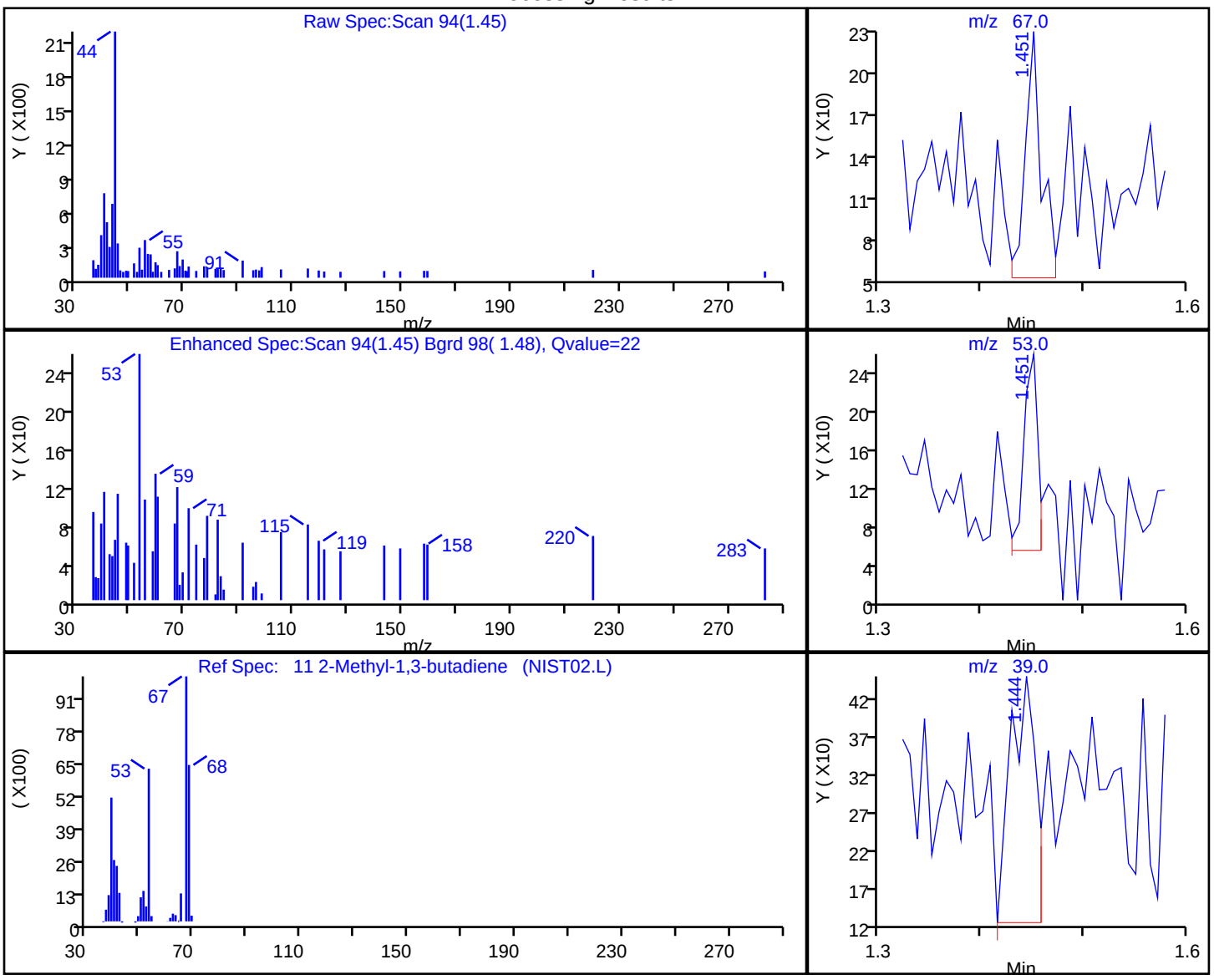
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
1.45	67.00	187	0.036422
1.45	53.00	199	
1.44	39.00	561	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

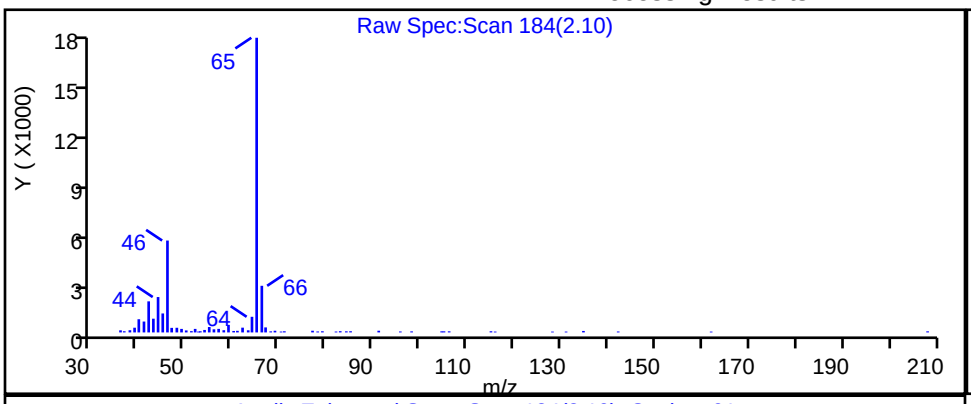
User Disabled Compound Report

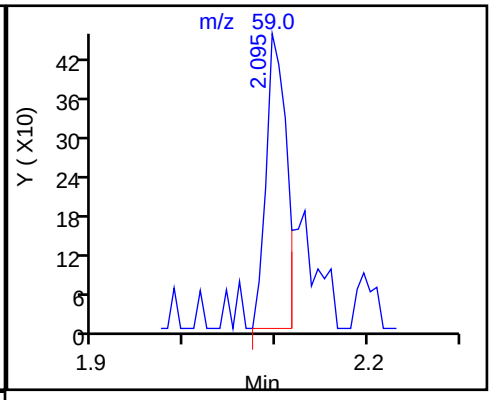
TestAmerica Edison

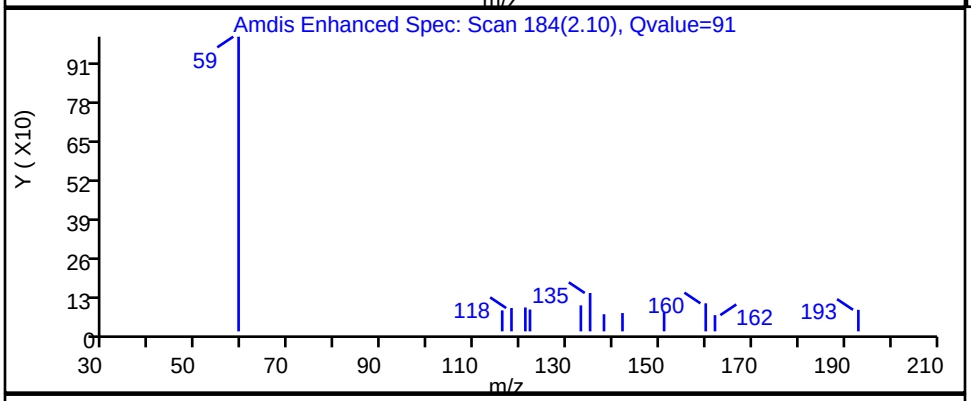
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

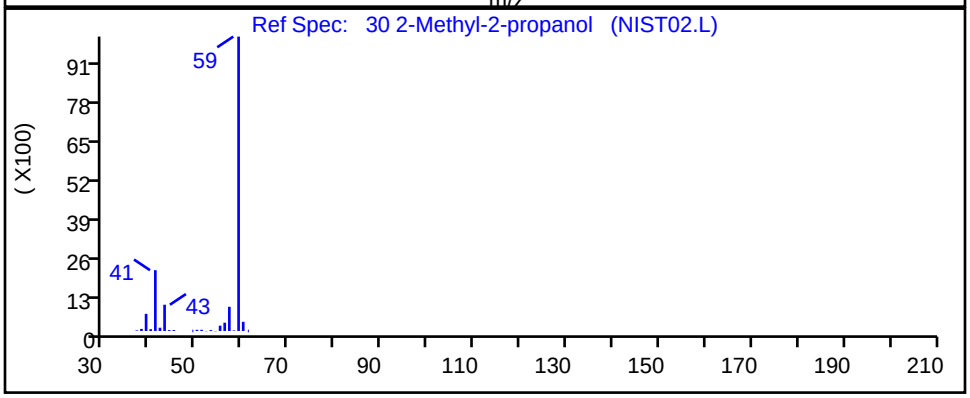
30 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
2.10	59.00	694	1.540874

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

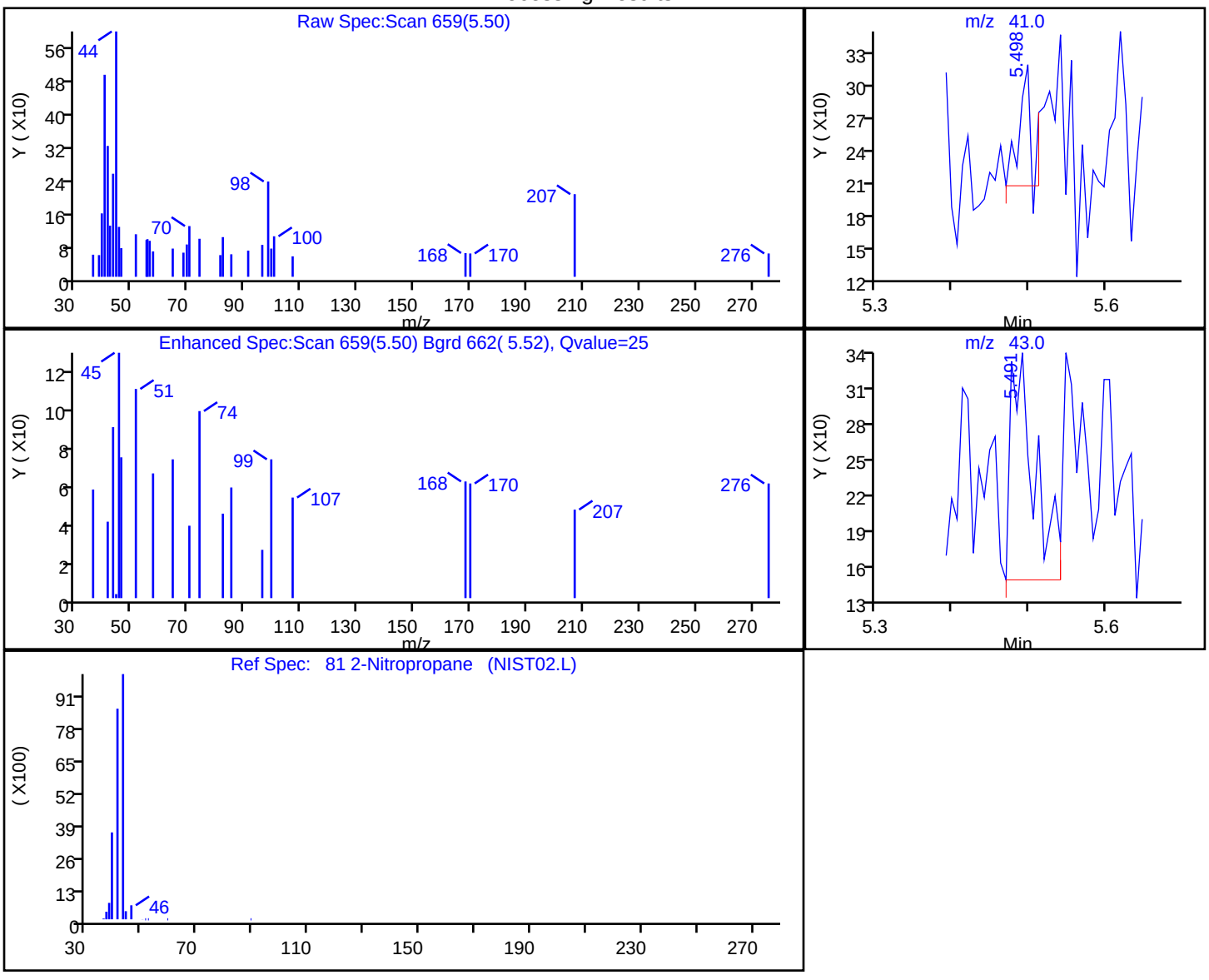
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

81 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
5.50	41.00	123	0.104540
5.49	43.00	403	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

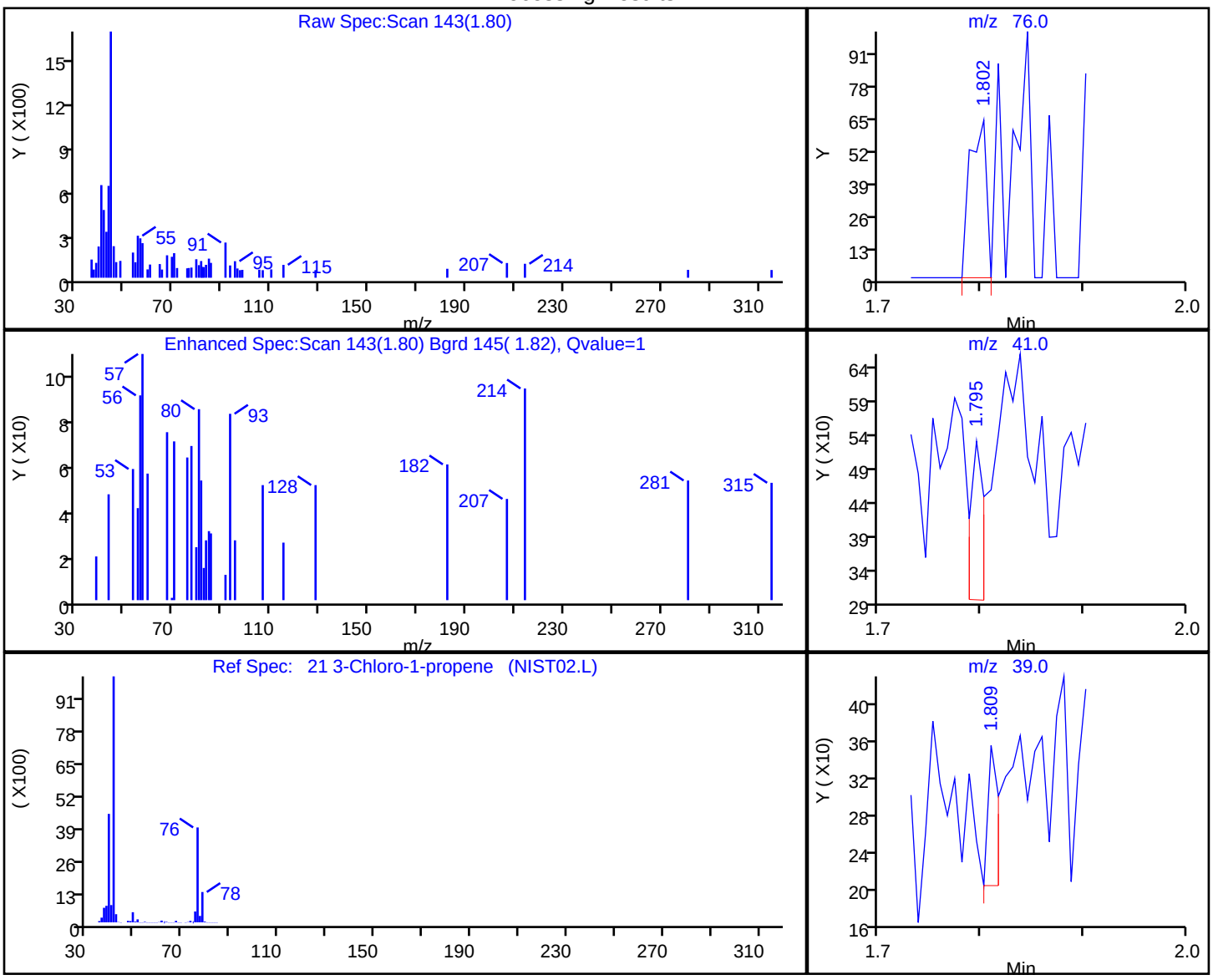
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
1.80	76.00	72	0.035098
1.79	41.00	218	
1.81	39.00	101	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

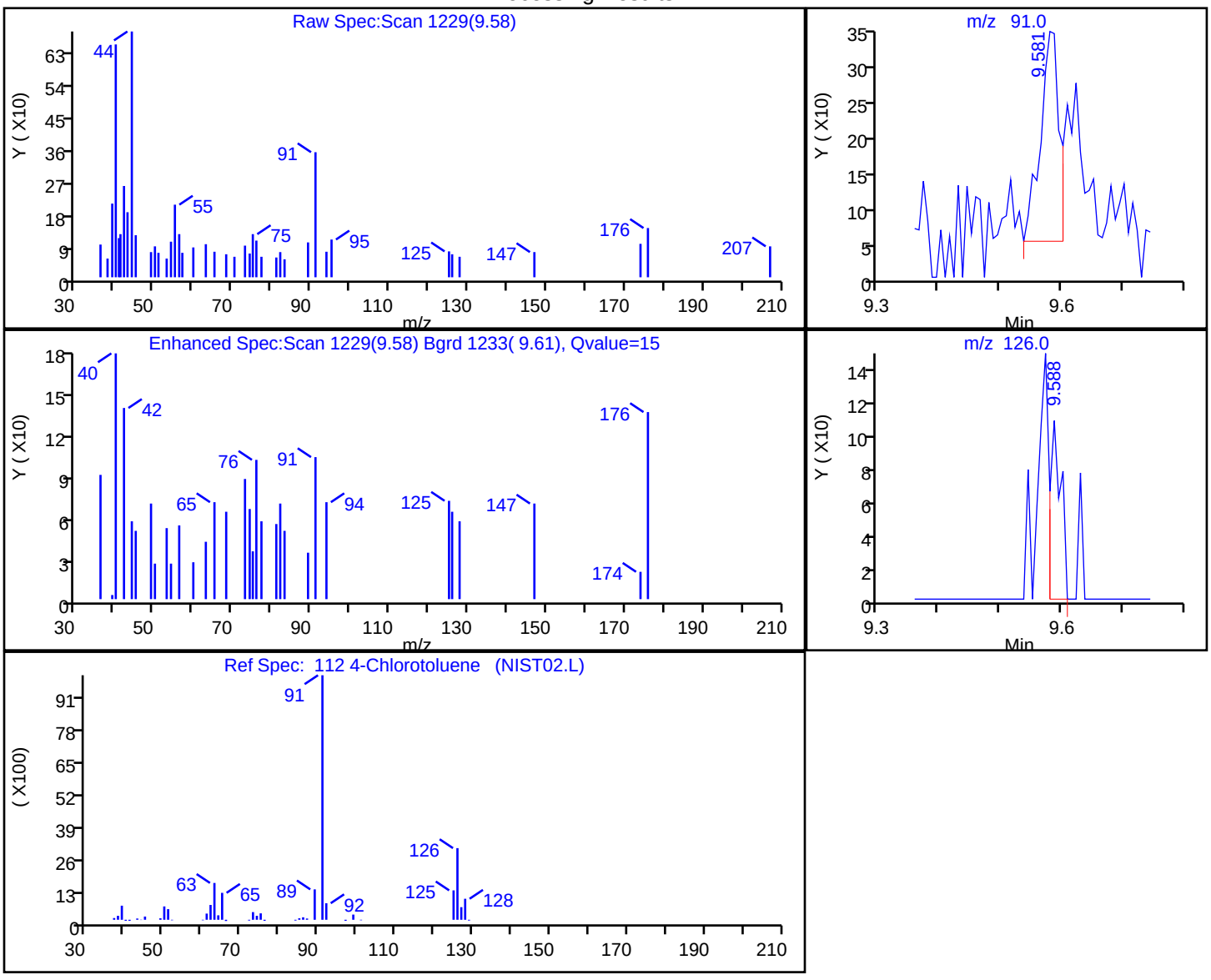
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
9.58	91.00	637	0.046742
9.59	126.00	132	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

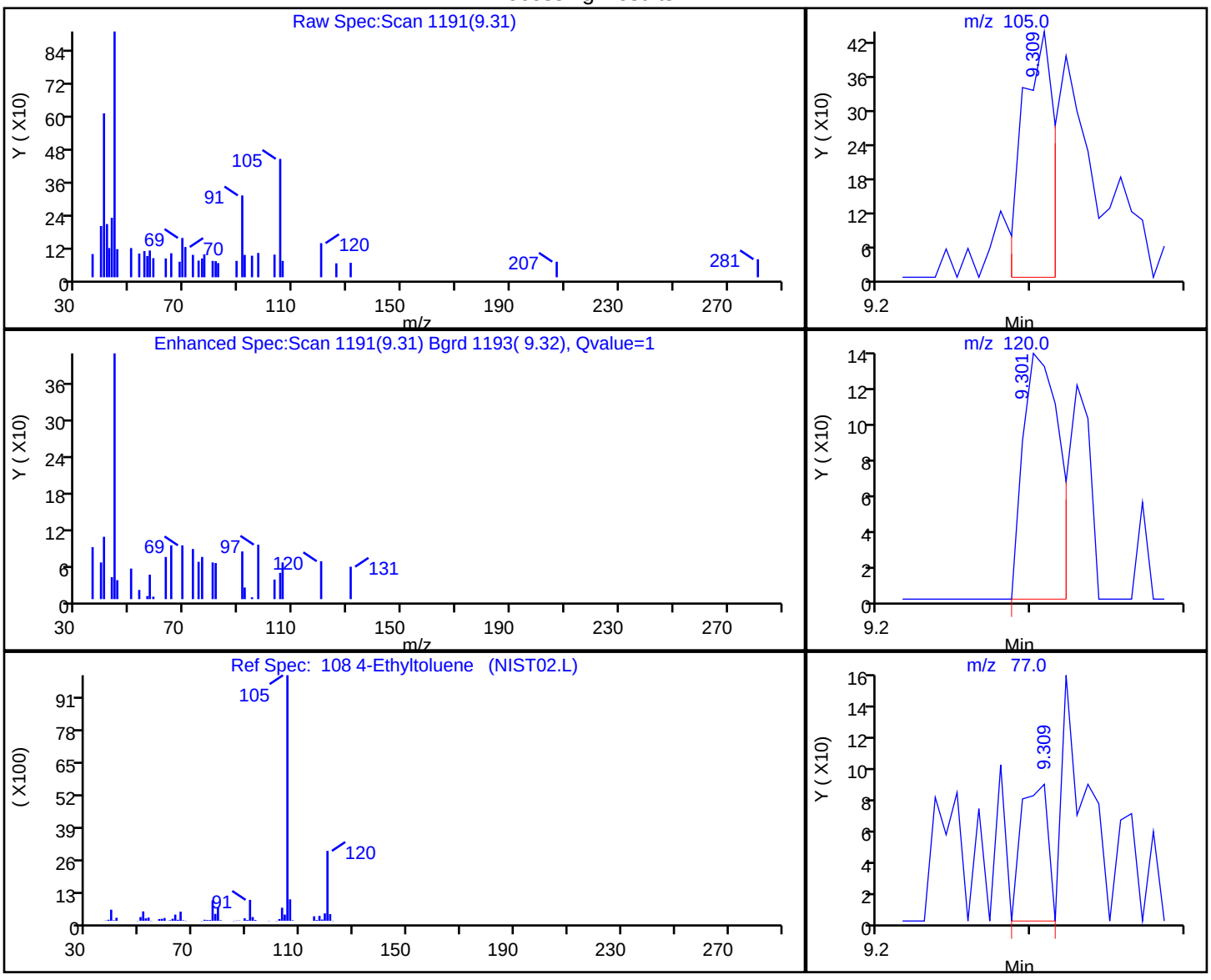
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

108 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
9.31	105.00	619	0.035091
9.30	120.00	219	
9.31	77.00	101	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

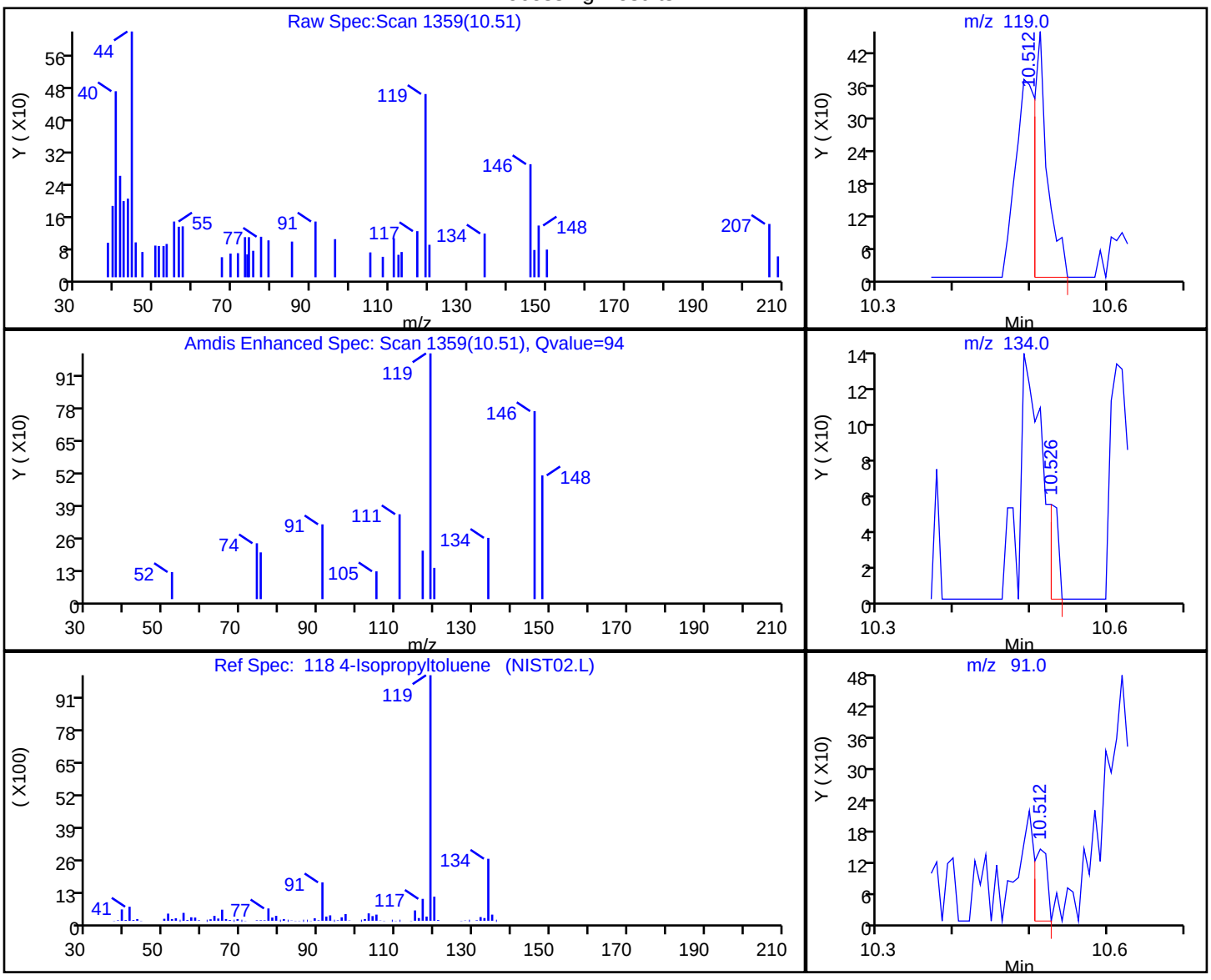
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
10.51	119.00	542	0.033833
10.53	134.00	46	
10.51	91.00	165	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

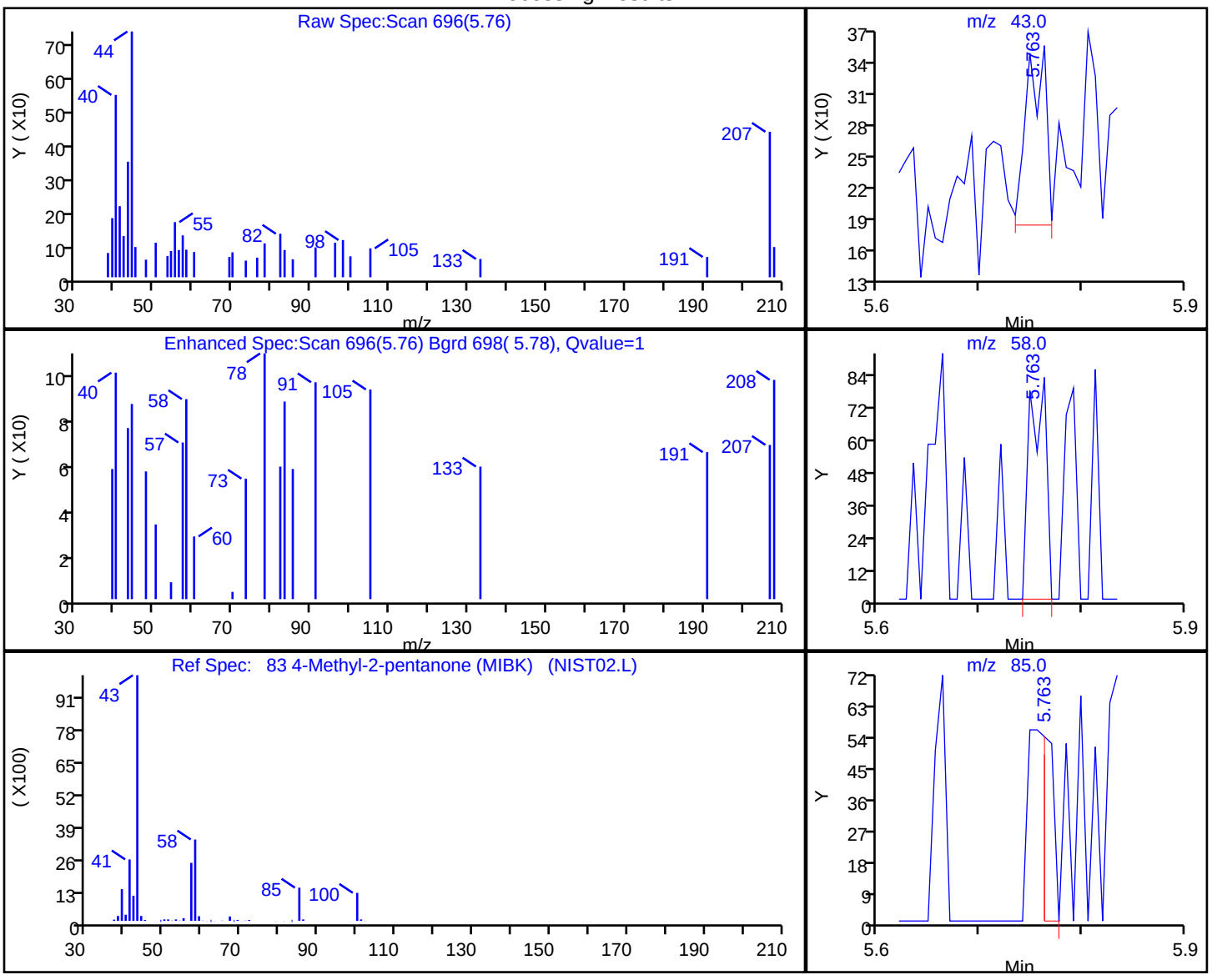
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

83 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
5.76	43.00	217	0.049419
5.76	58.00	93	
5.76	85.00	46	
5.75	100.00	66	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

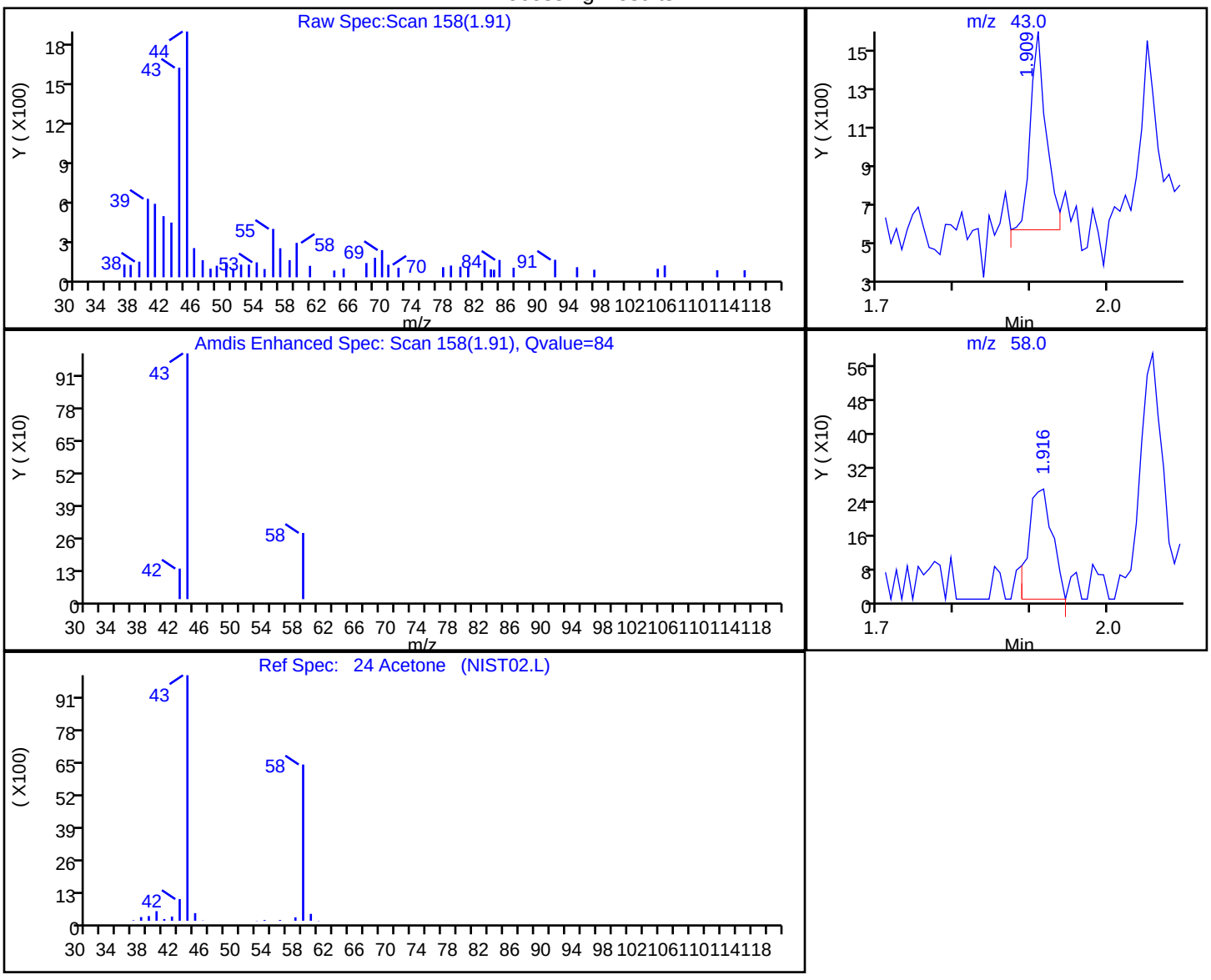
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
1.91	43.00	1355	1.193137
1.92	58.00	567	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

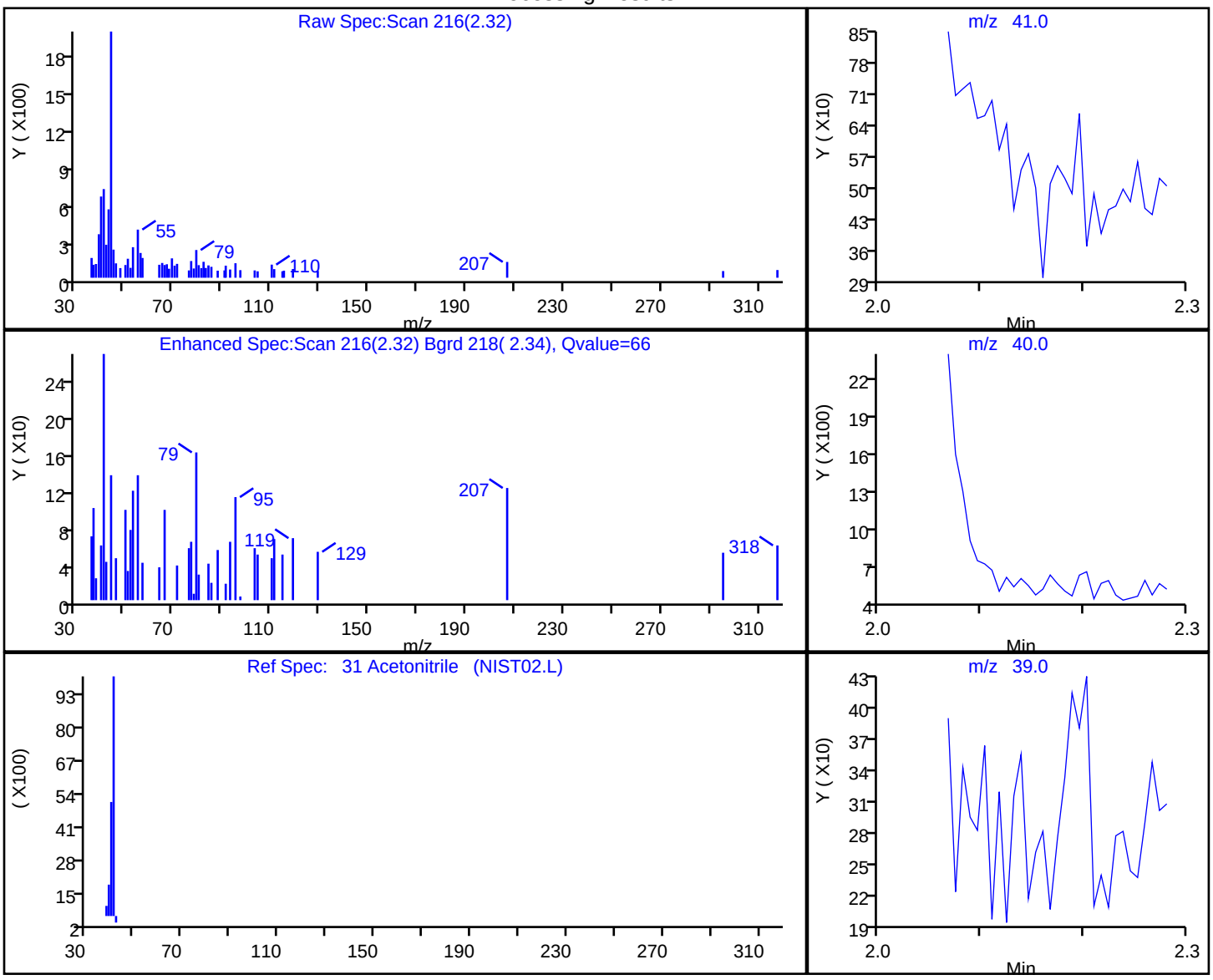
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

31 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.32	41.00	334	0.611630
2.33	40.00	227	
2.32	39.00	195	
2.33	38.00	136	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

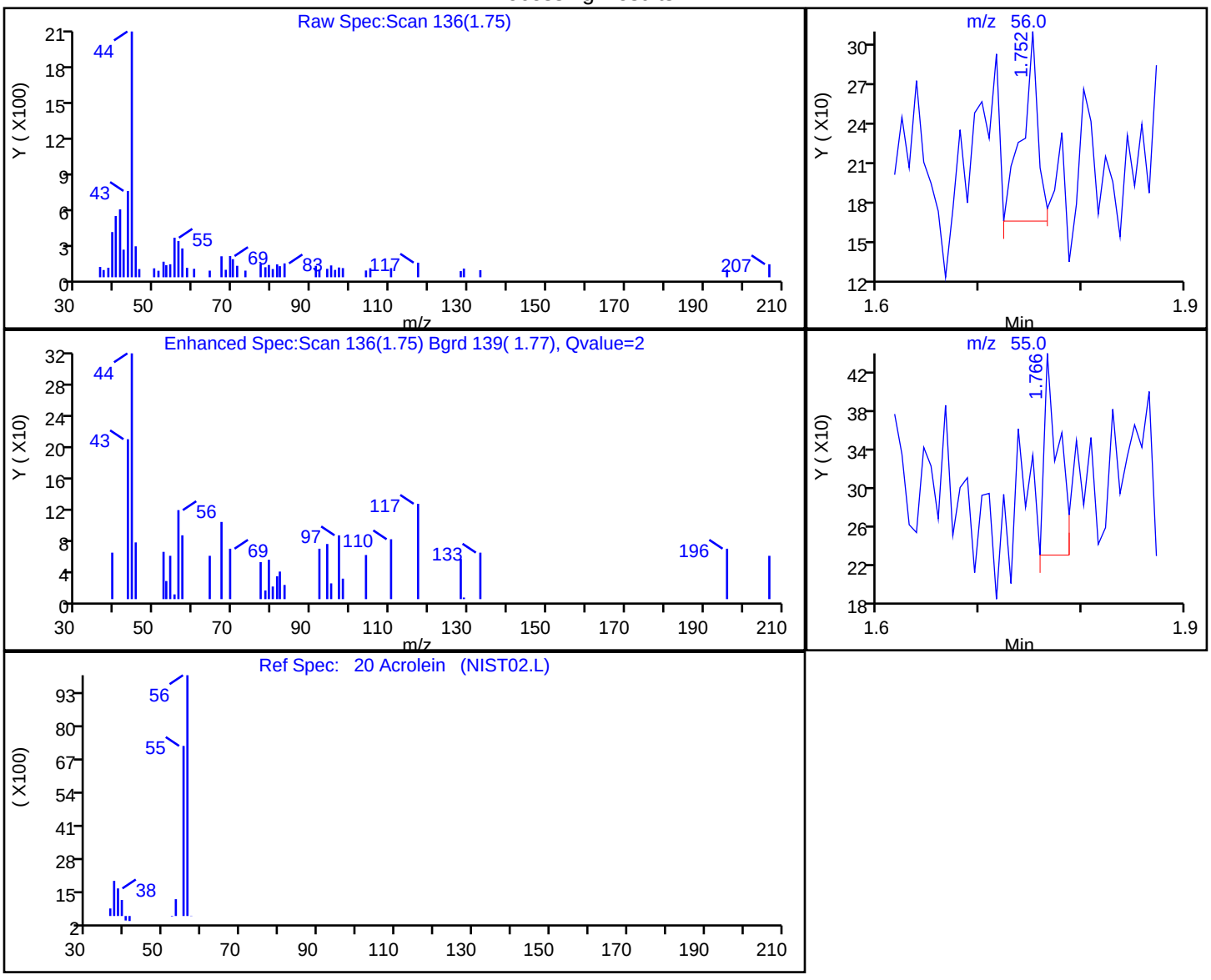
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
1.75	56.00	144	0.333163
1.77	55.00	201	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

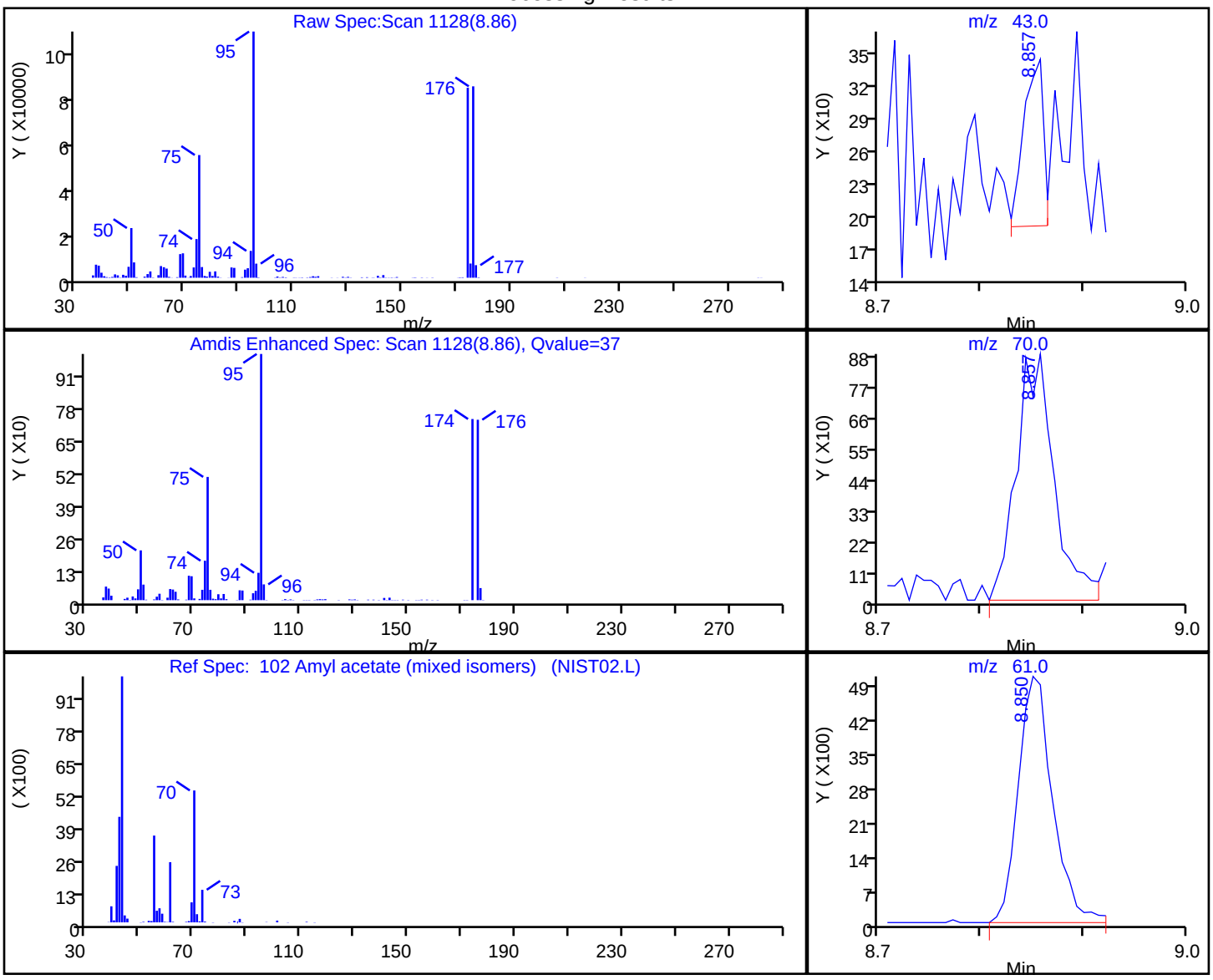
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Processing Results



RT	Mass	Response	Amount
8.86	43.00	204	0.023080
8.86	70.00	2262	
8.85	61.00	11819	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

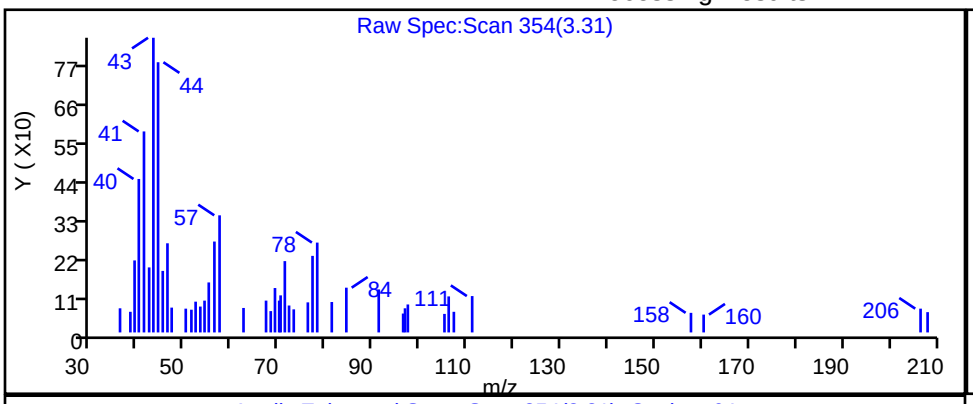
User Disabled Compound Report

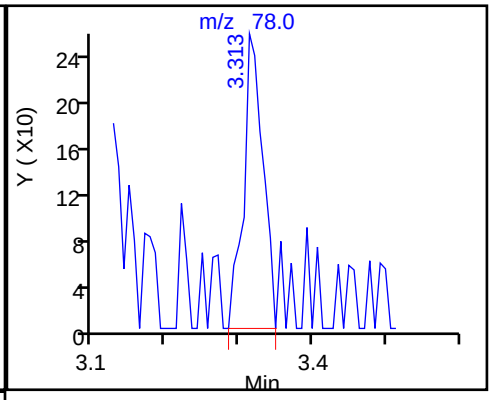
TestAmerica Edison

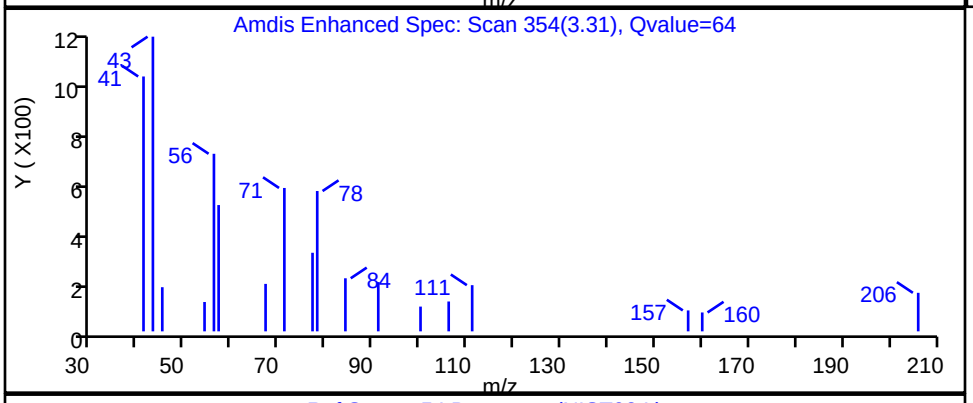
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

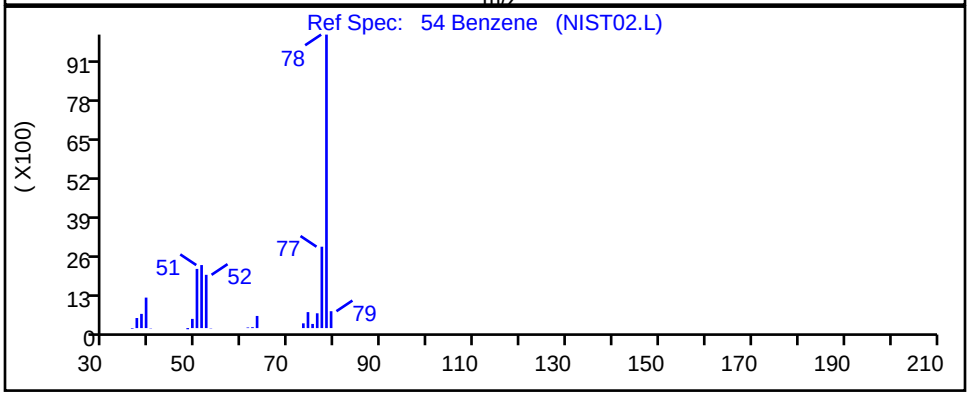
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.31	78.00	473	0.030651

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

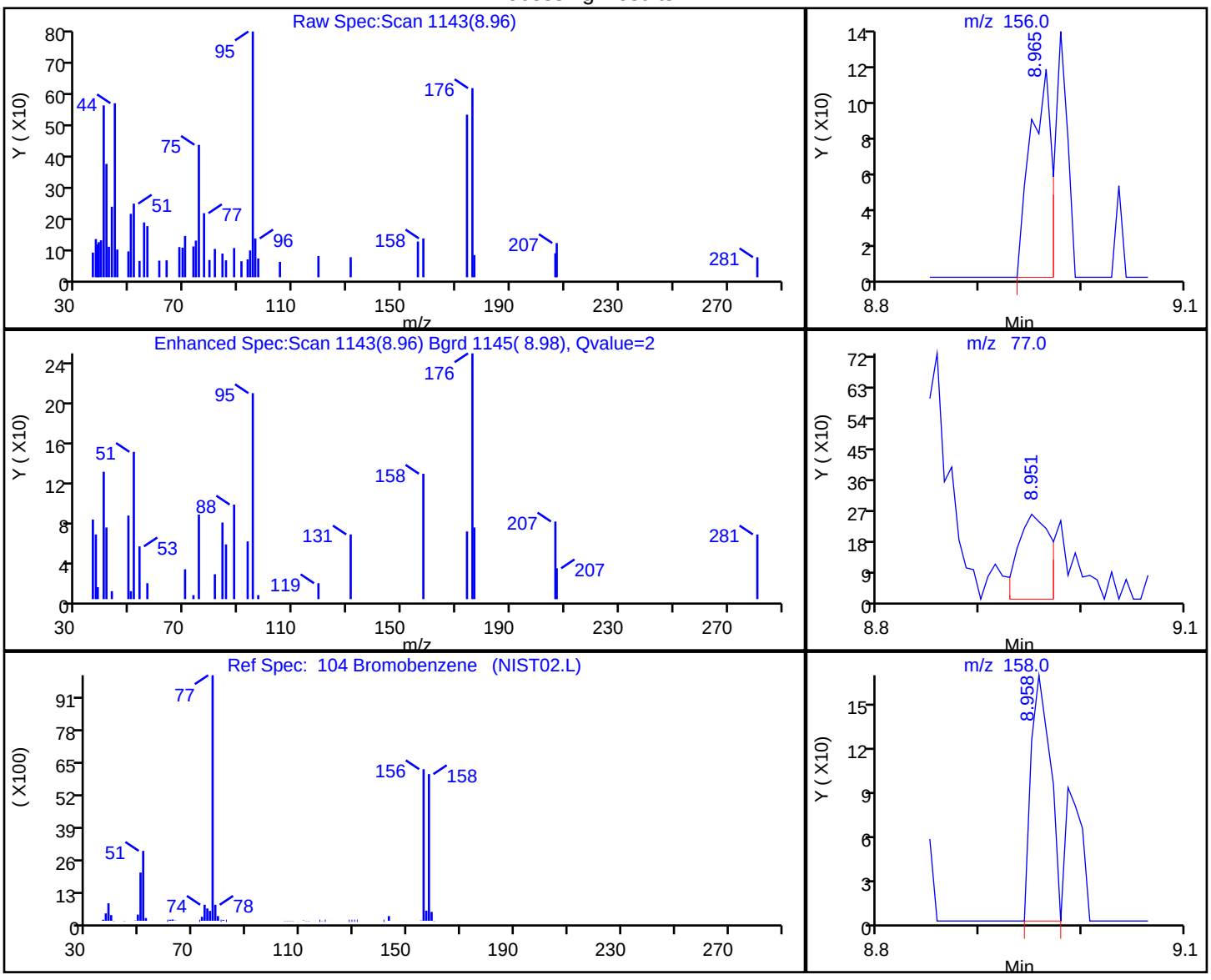
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
8.96	156.00	168	0.039948
8.95	77.00	549	
8.96	158.00	214	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

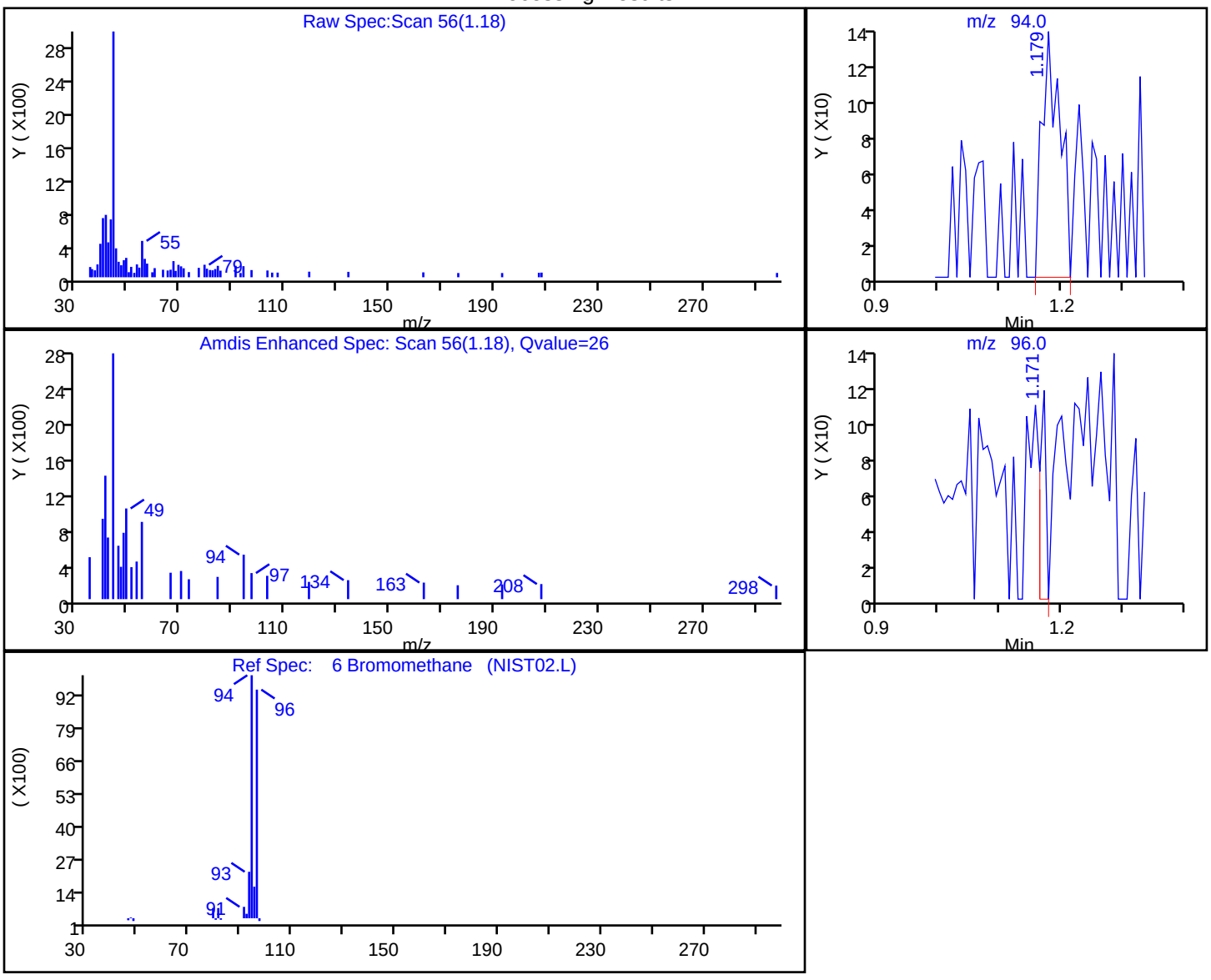
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.18	94.00	268	0.125603
1.17	96.00	78	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

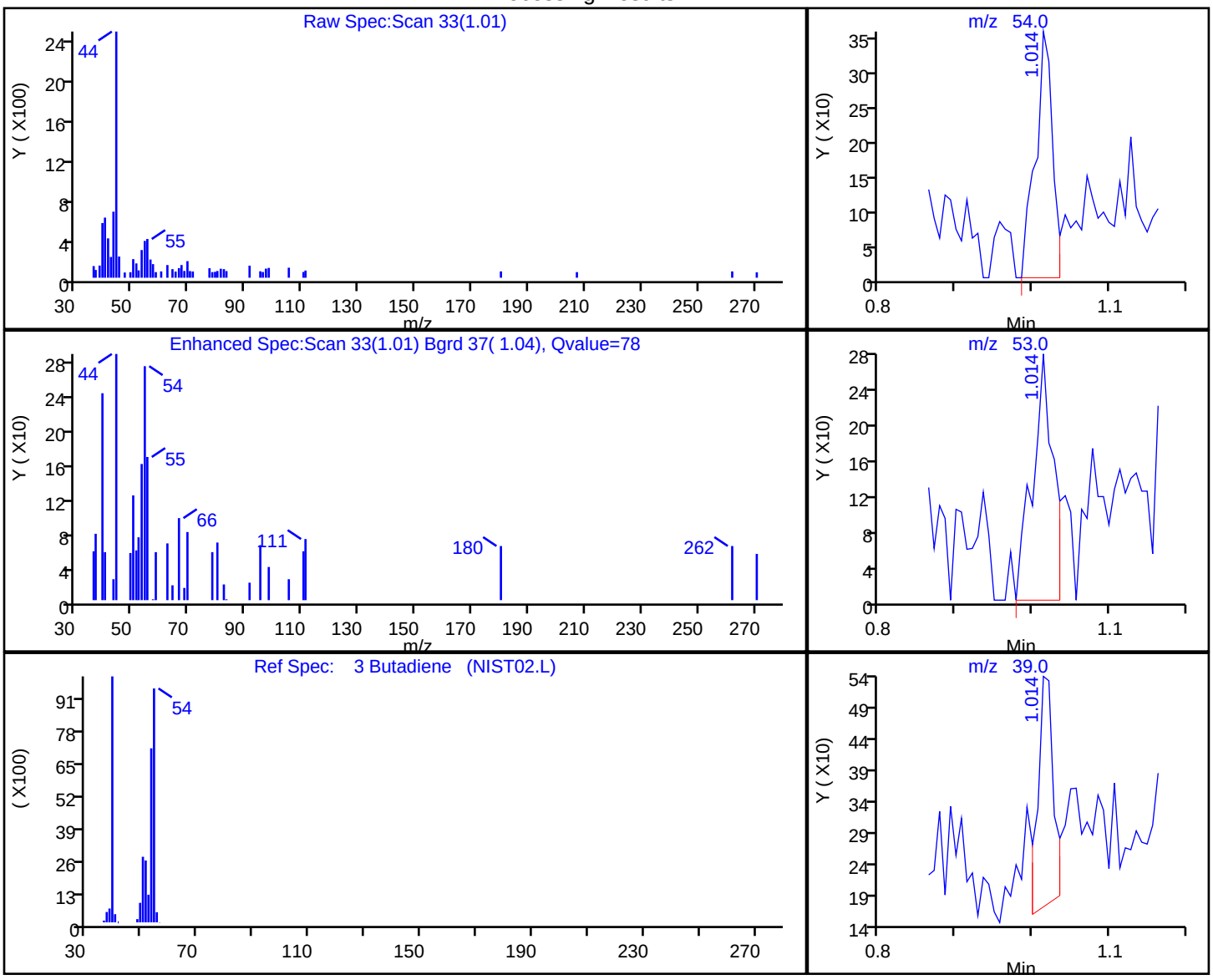
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Butadiene, CAS: 106-99-0

Processing Results



RT	Mass	Response	Amount
1.01	54.00	565	0.125240
1.01	53.00	512	
1.01	39.00	523	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

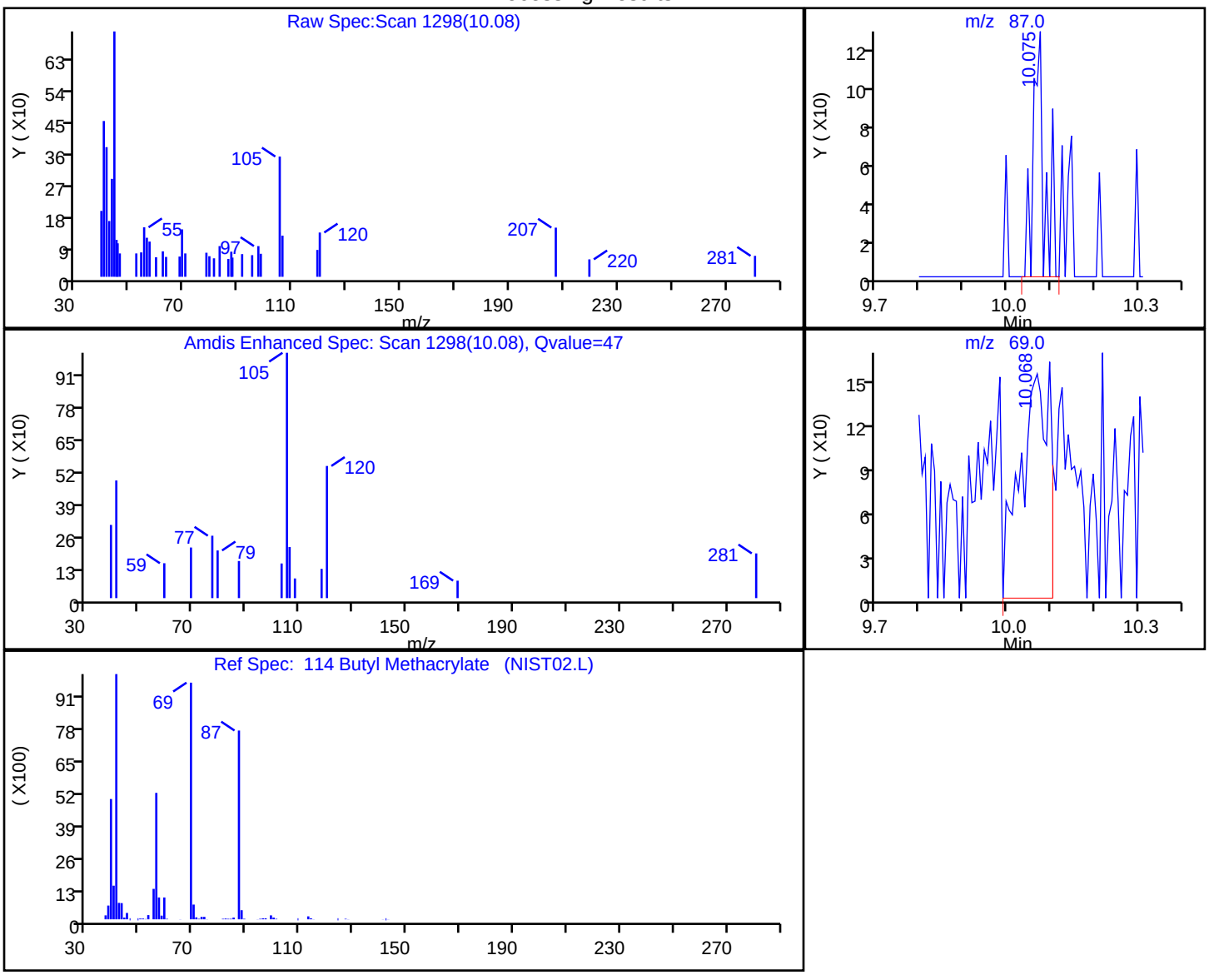
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 Butyl Methacrylate, CAS: 97-88-1

Processing Results



RT	Mass	Response	Amount
10.08	87.00	226	0.042721
10.07	69.00	689	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

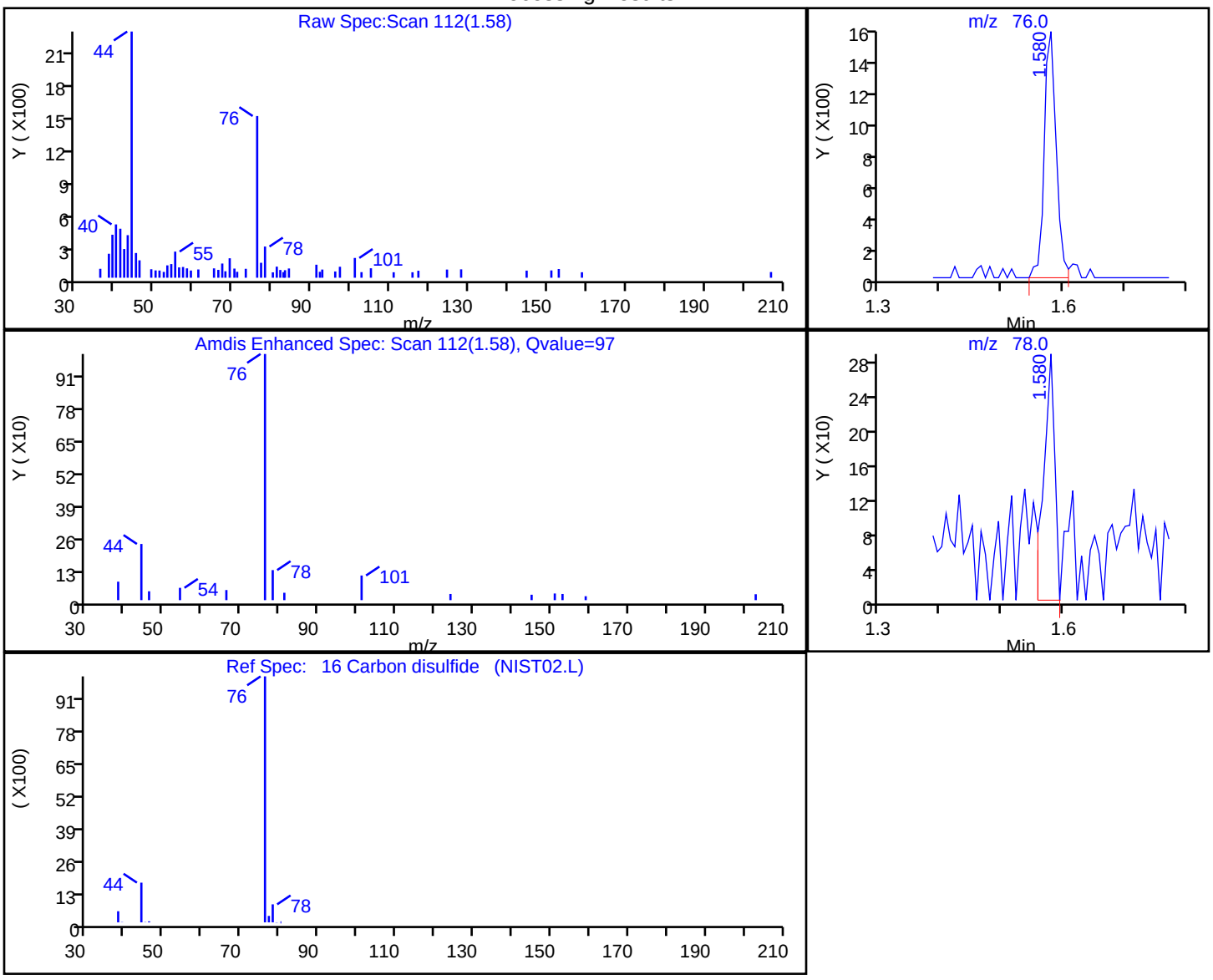
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
1.58	76.00	2050	0.179070
1.58	78.00	360	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

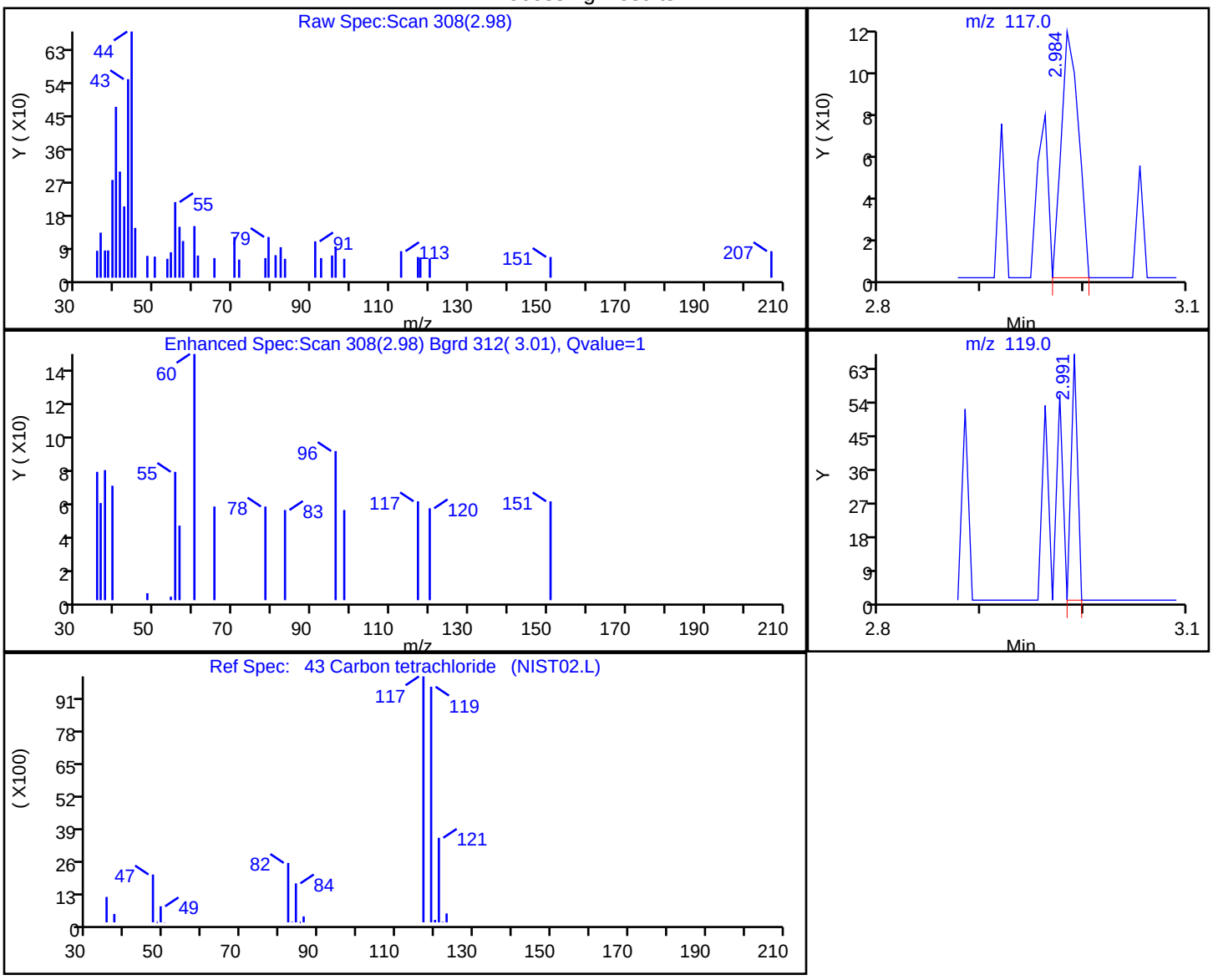
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

43 Carbon tetrachloride, CAS: 56-23-5

Processing Results



RT	Mass	Response	Amount
2.98	117.00	132	0.029024
2.99	119.00	29	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

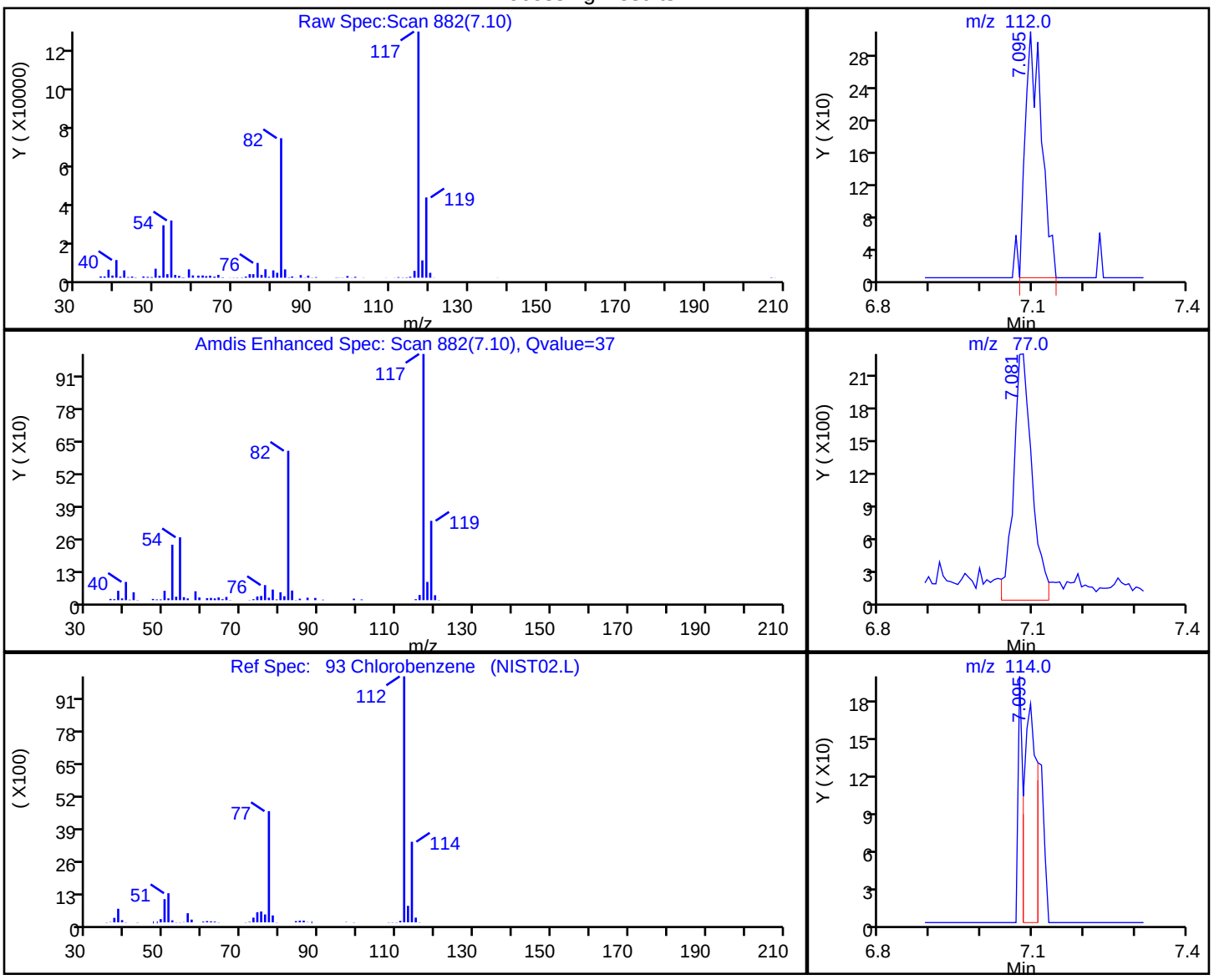
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

93 Chlorobenzene, CAS: 108-90-7

Processing Results



RT	Mass	Response	Amount
7.10	112.00	668	0.065751
7.08	77.00	5731	
7.10	114.00	298	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

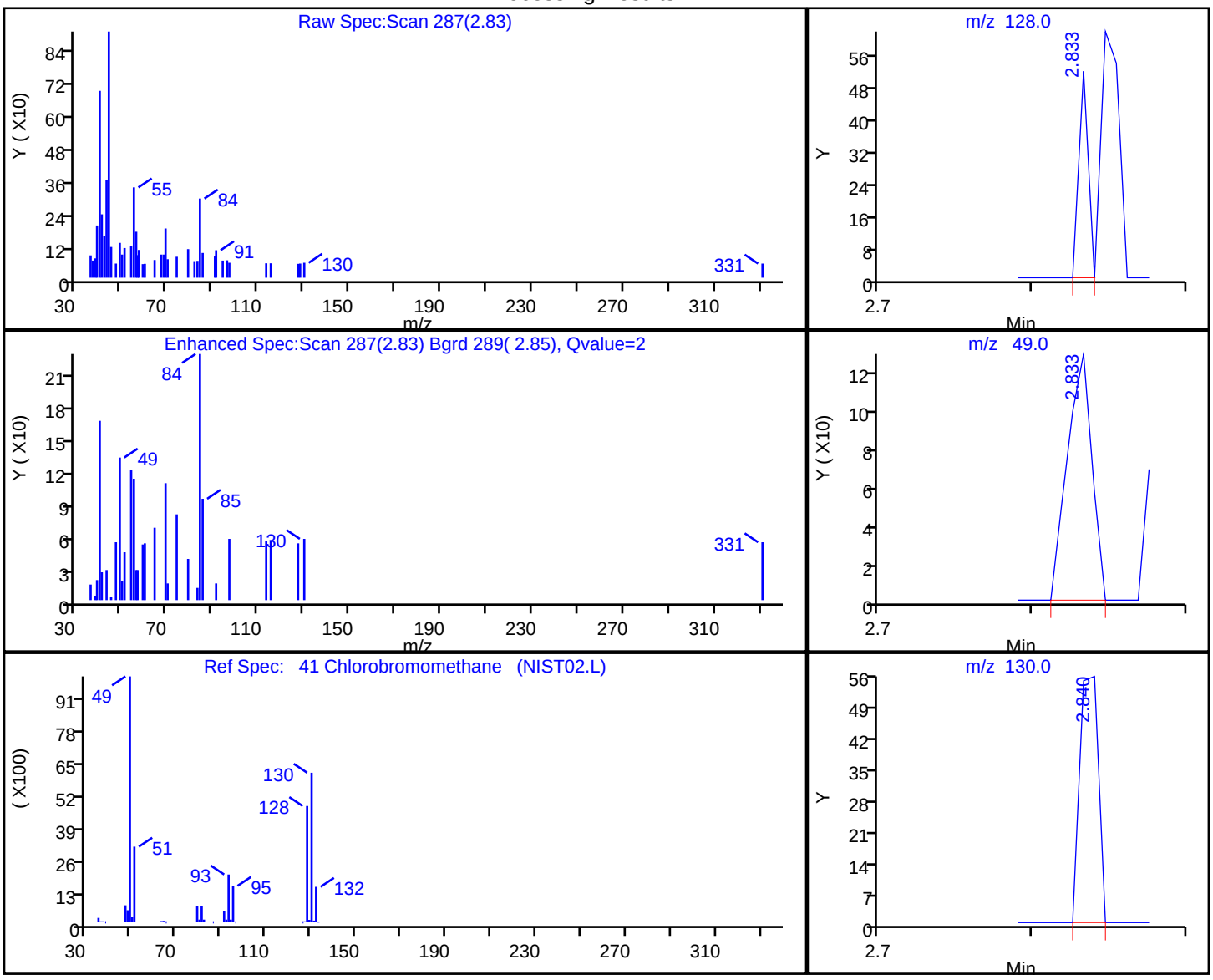
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

41 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
2.83	128.00	22	0.012549
2.83	49.00	143	
2.84	130.00	48	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

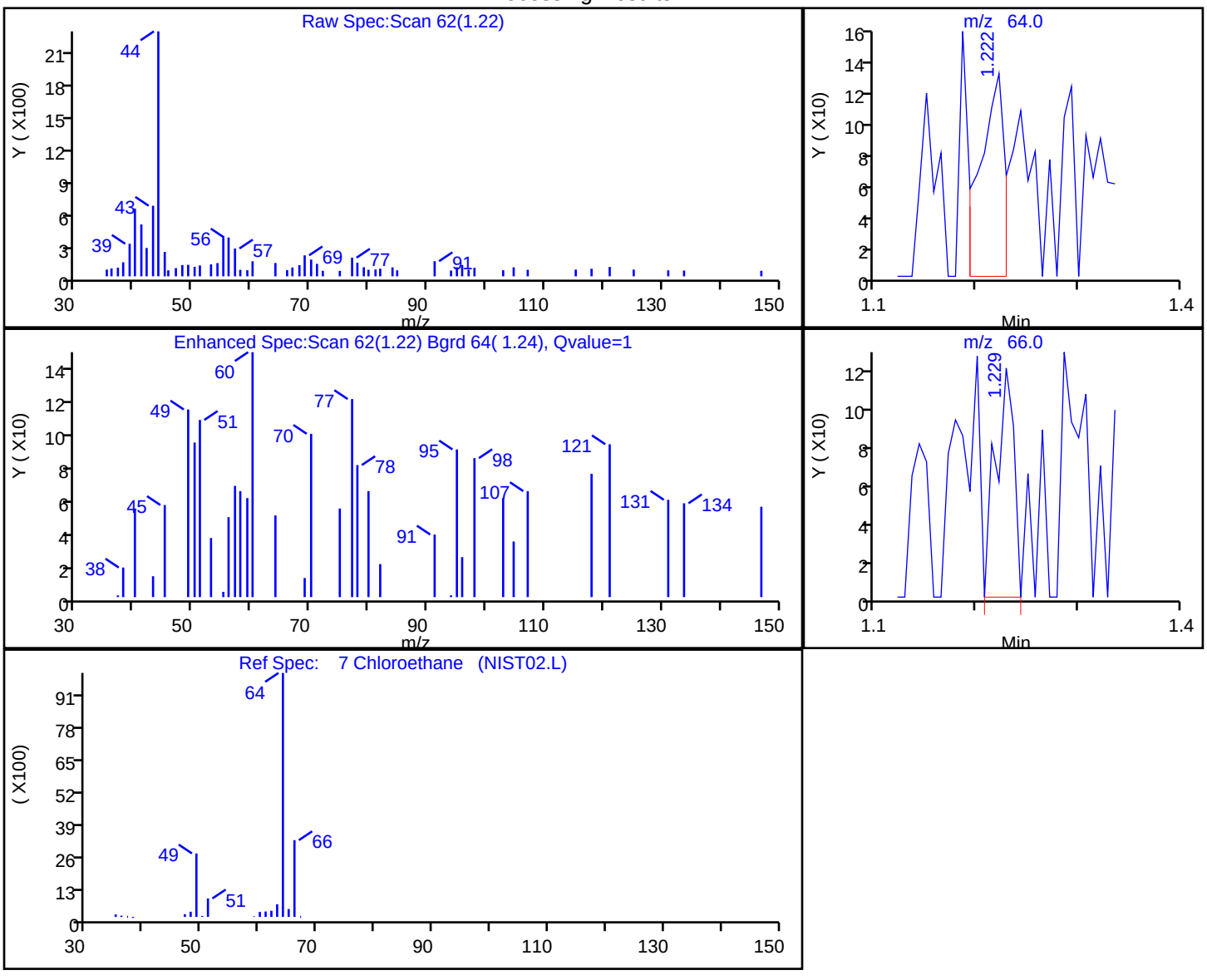
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.22	64.00	208	0.070498
1.23	66.00	144	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

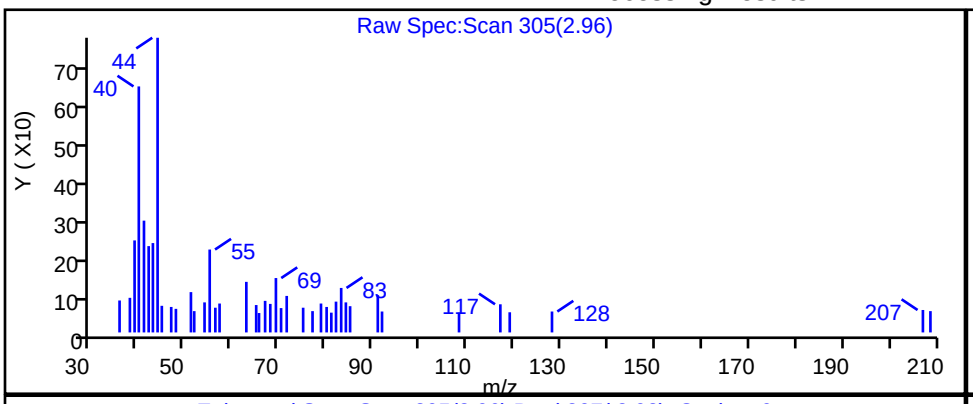
User Disabled Compound Report

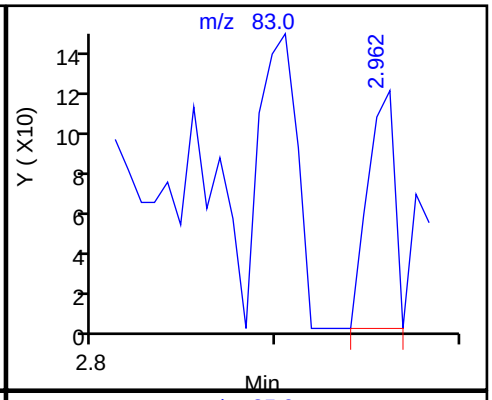
TestAmerica Edison

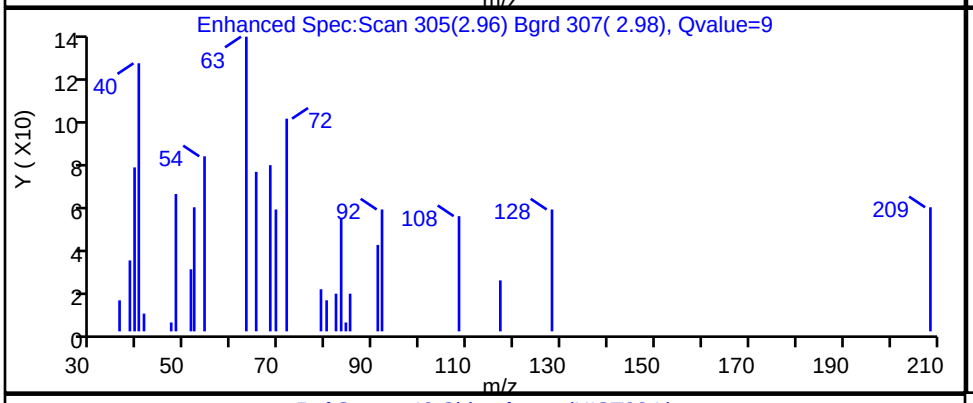
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

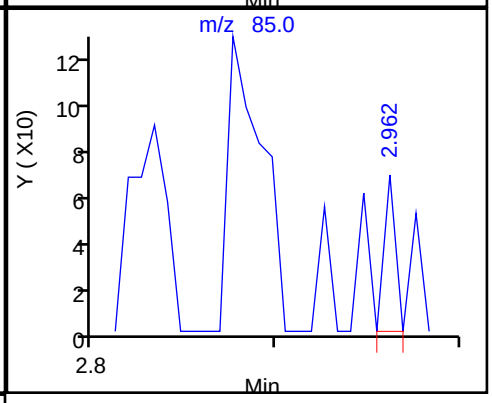
42 Chloroform, CAS: 67-66-3

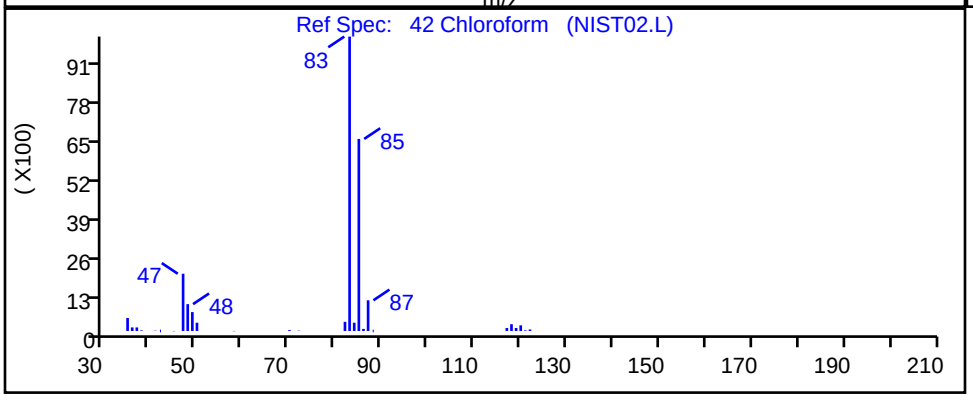
Processing Results











RT	Mass	Response	Amount
2.96	83.00	119	0.018252
2.96	85.00	30	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

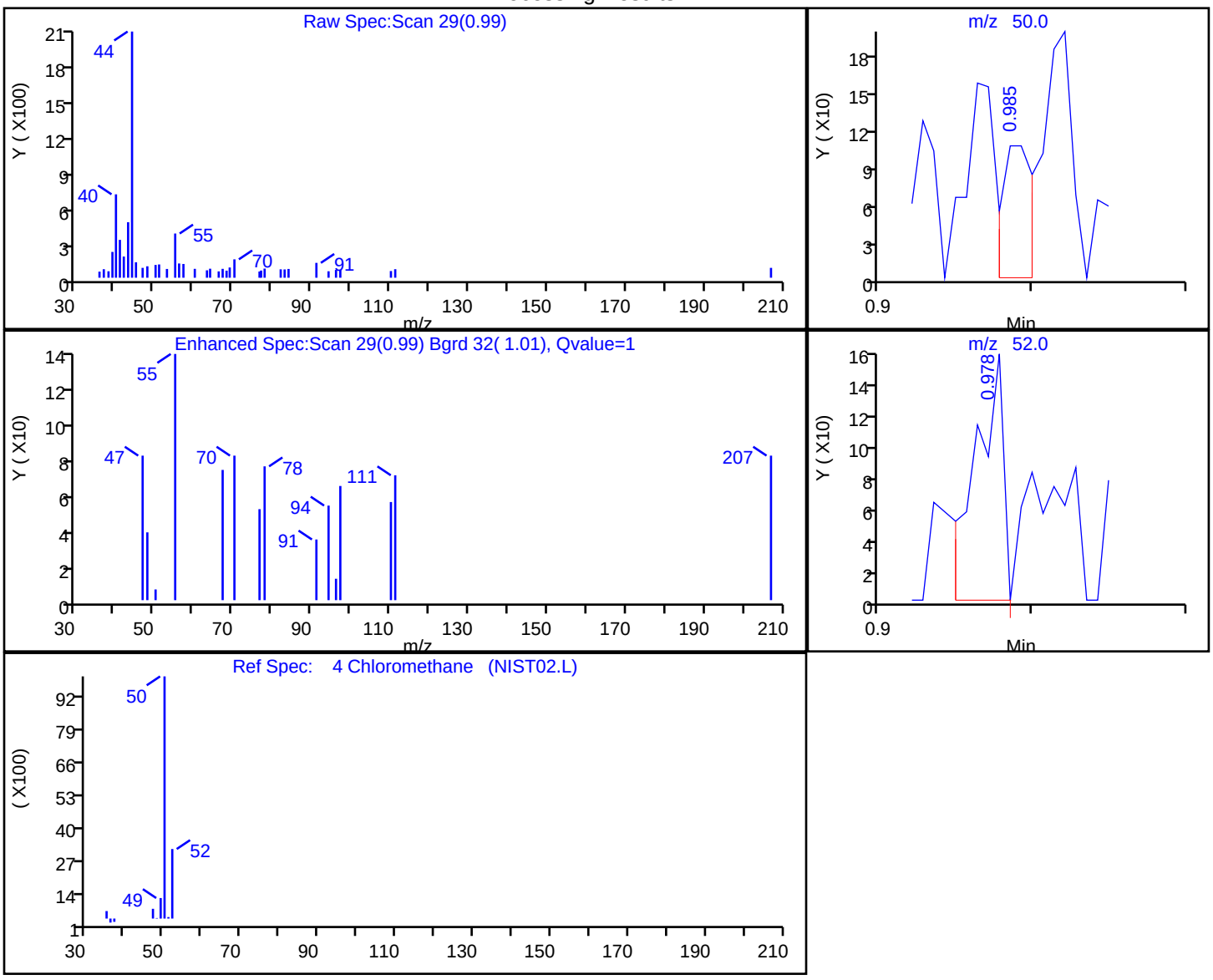
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
0.99	50.00	148	0.034122
0.98	52.00	199	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

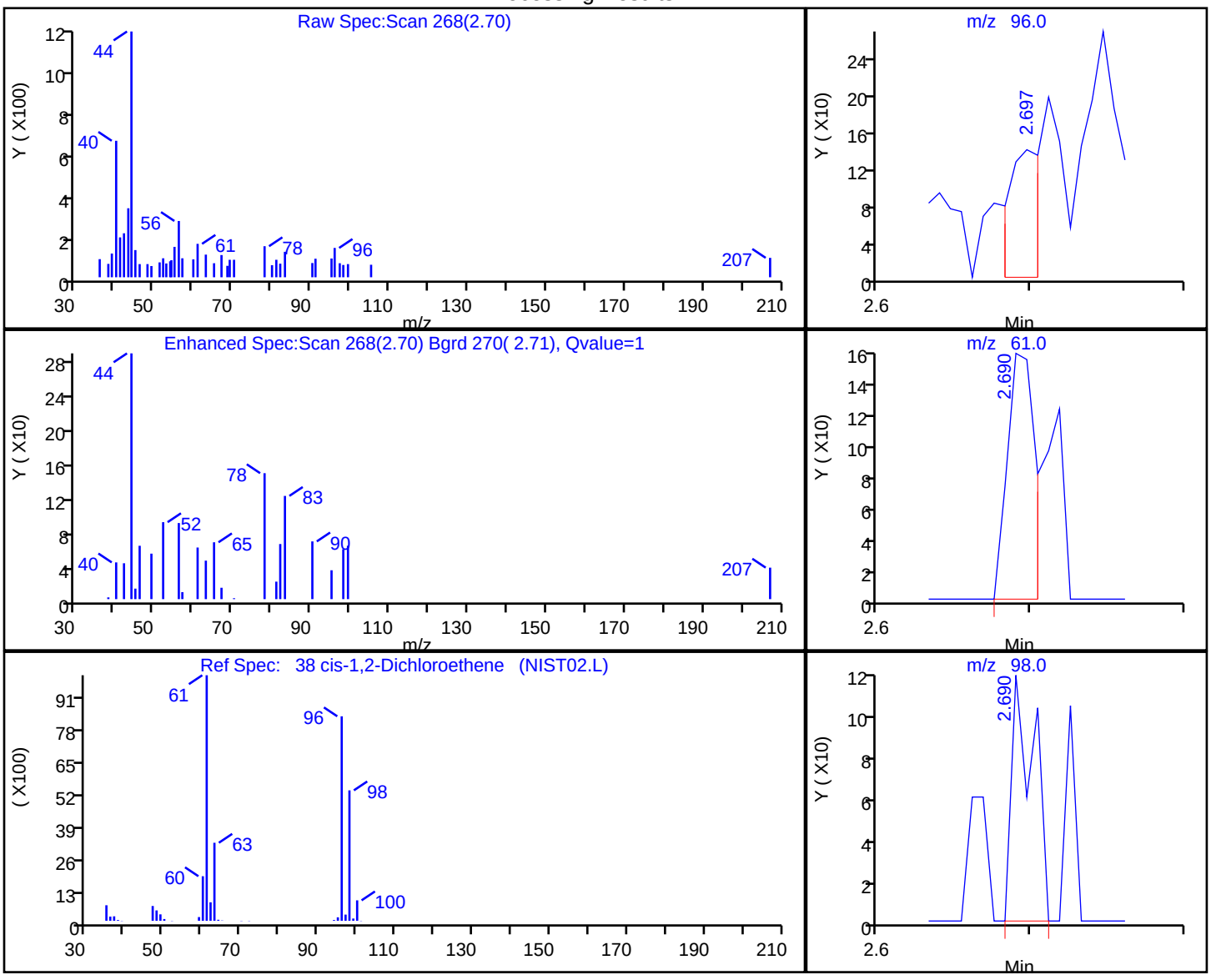
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

38 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
2.70	96.00	200	0.050233
2.69	61.00	201	
2.69	98.00	115	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

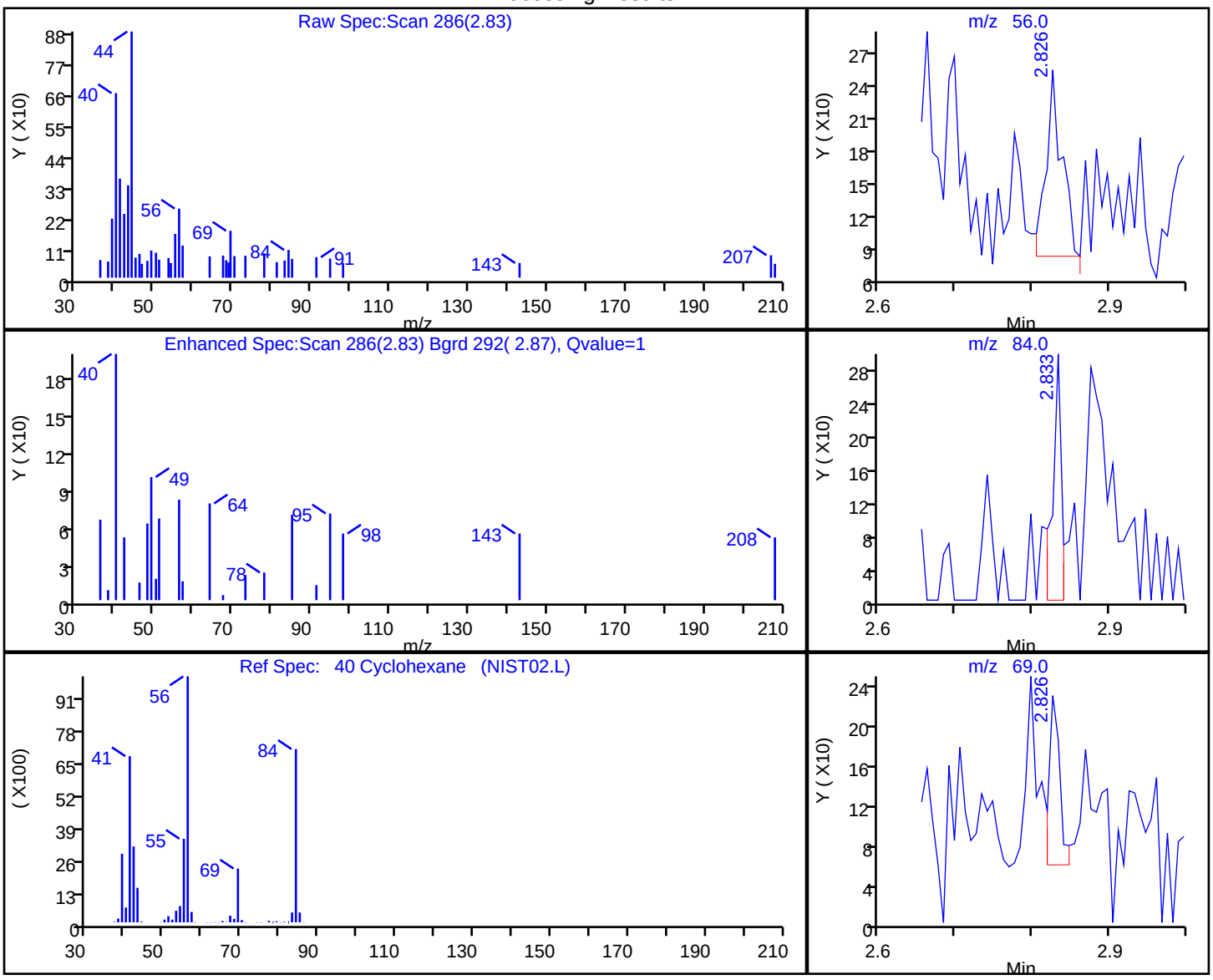
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

40 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
2.83	56.00	238	0.033885
2.83	84.00	232	
2.83	69.00	165	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

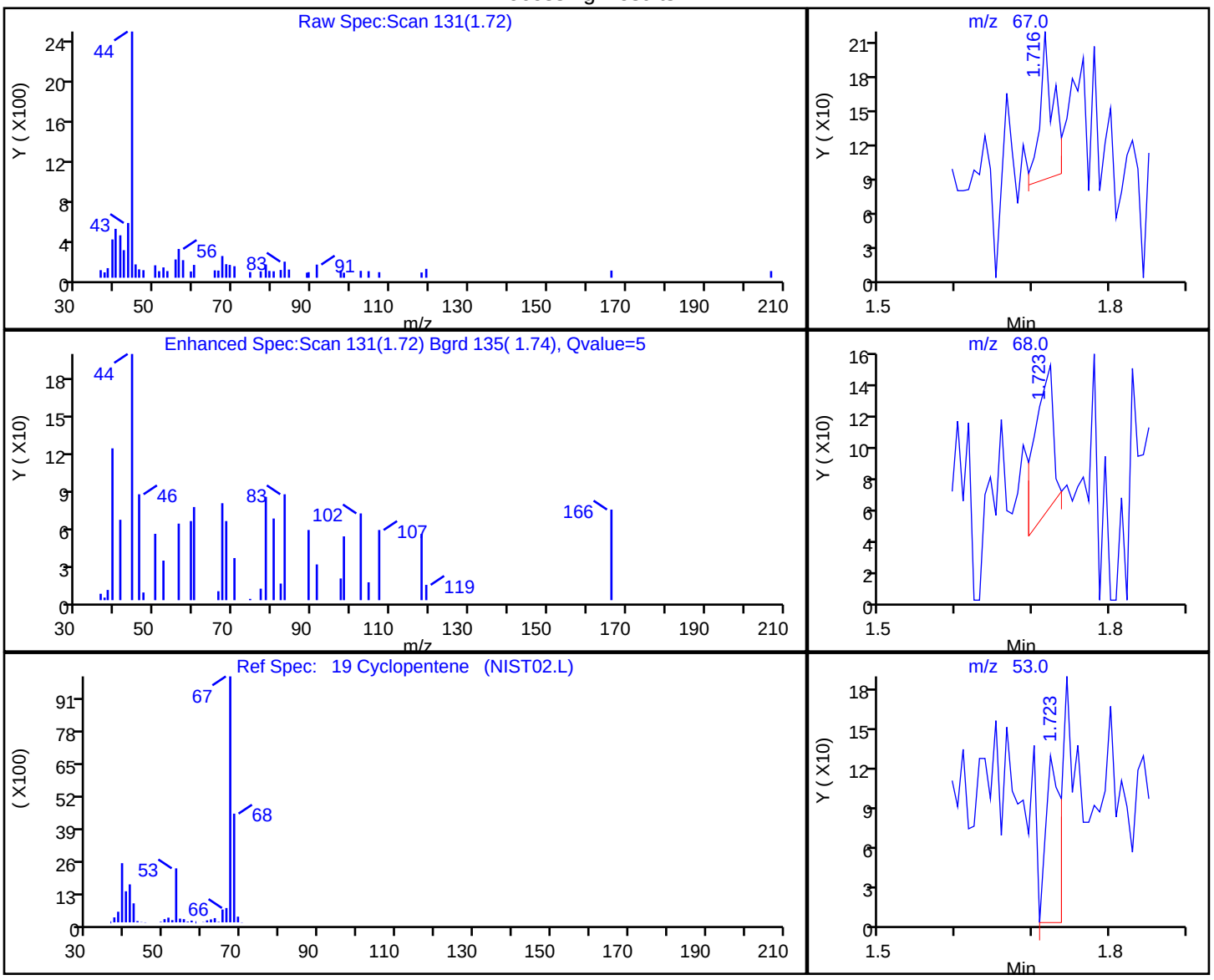
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

19 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
1.72	67.00	157	0.019045
1.72	68.00	153	
1.72	53.00	169	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

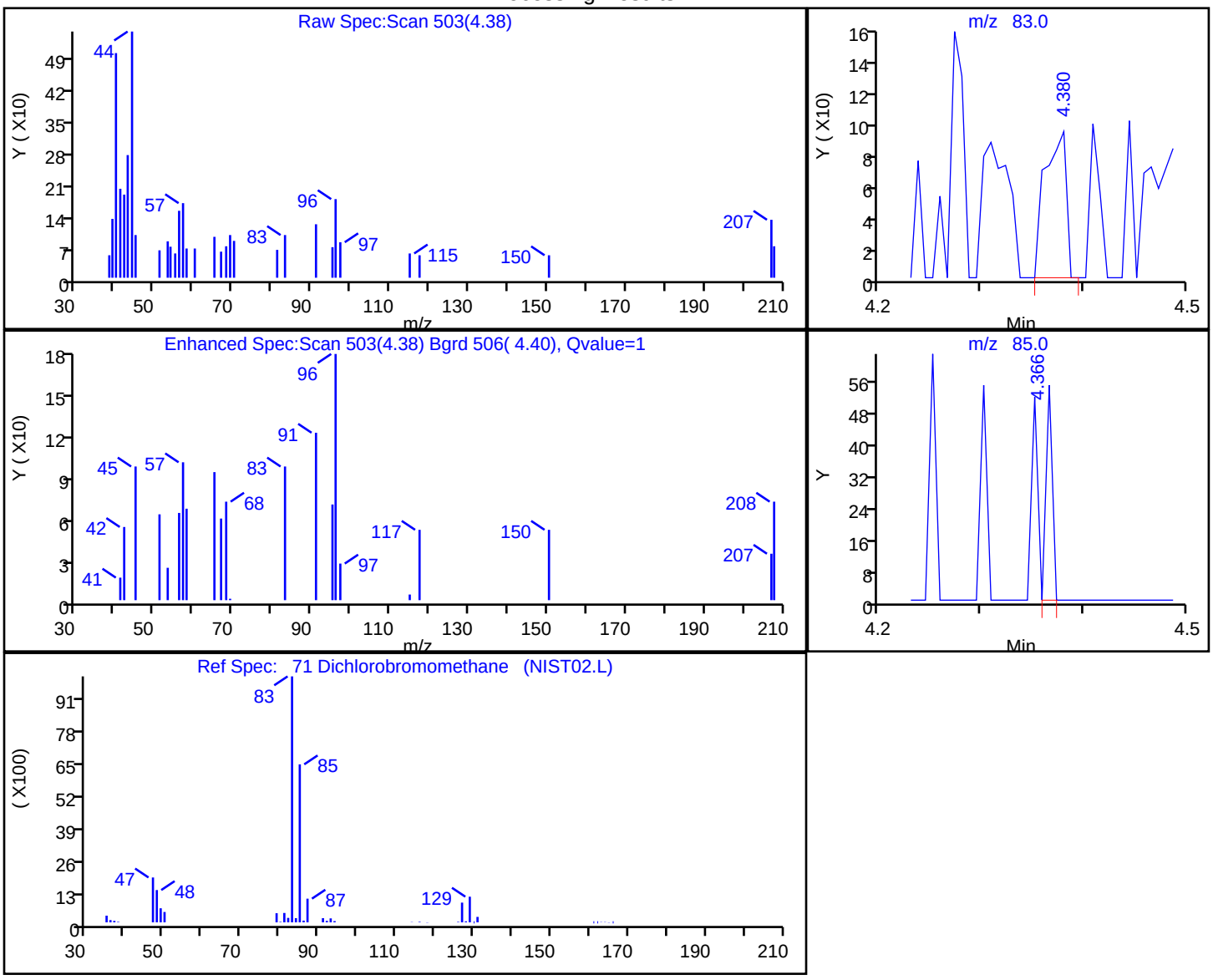
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

71 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
4.38	83.00	138	0.027542
4.37	85.00	24	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

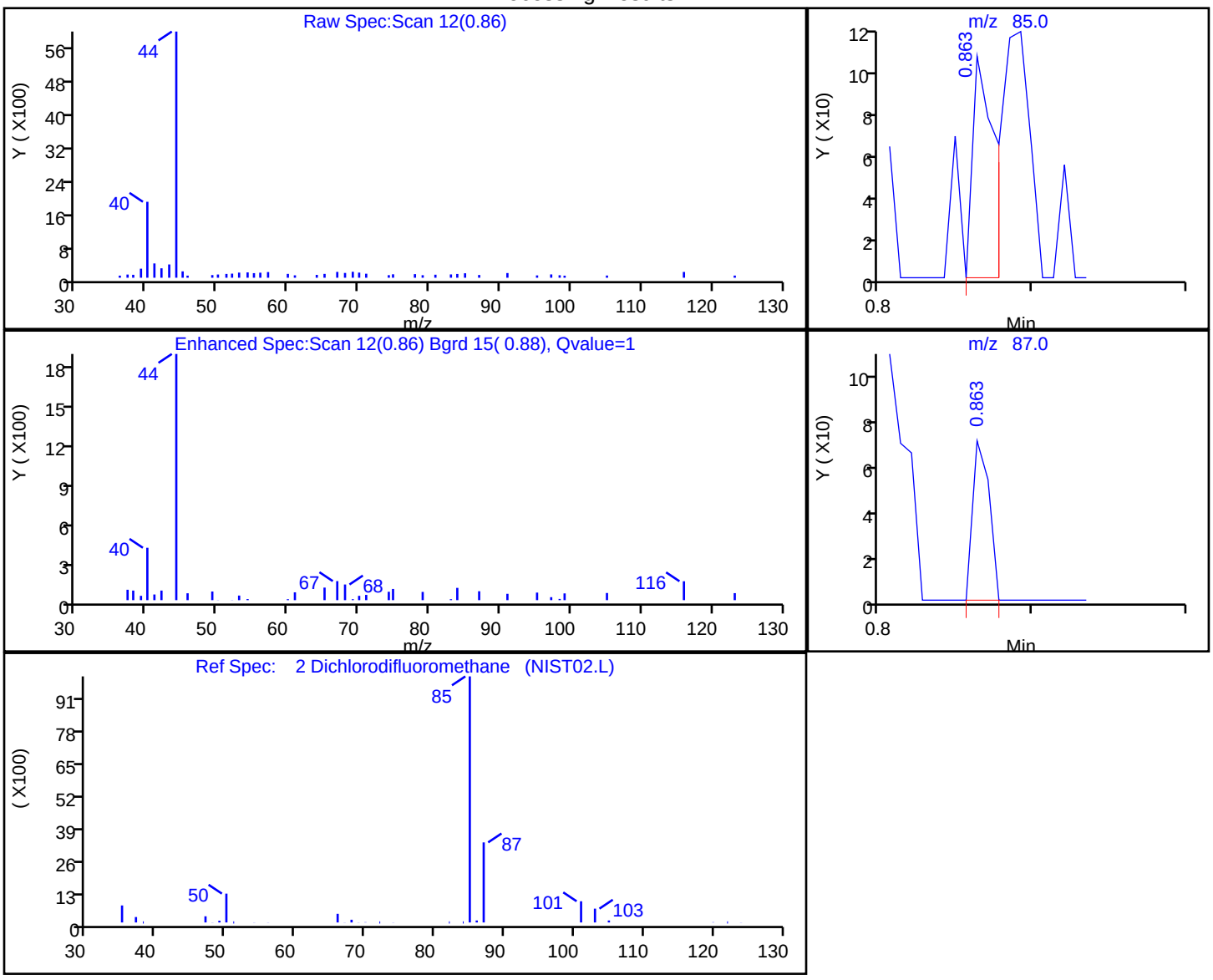
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
0.86	85.00	108	0.023889
0.86	87.00	50	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

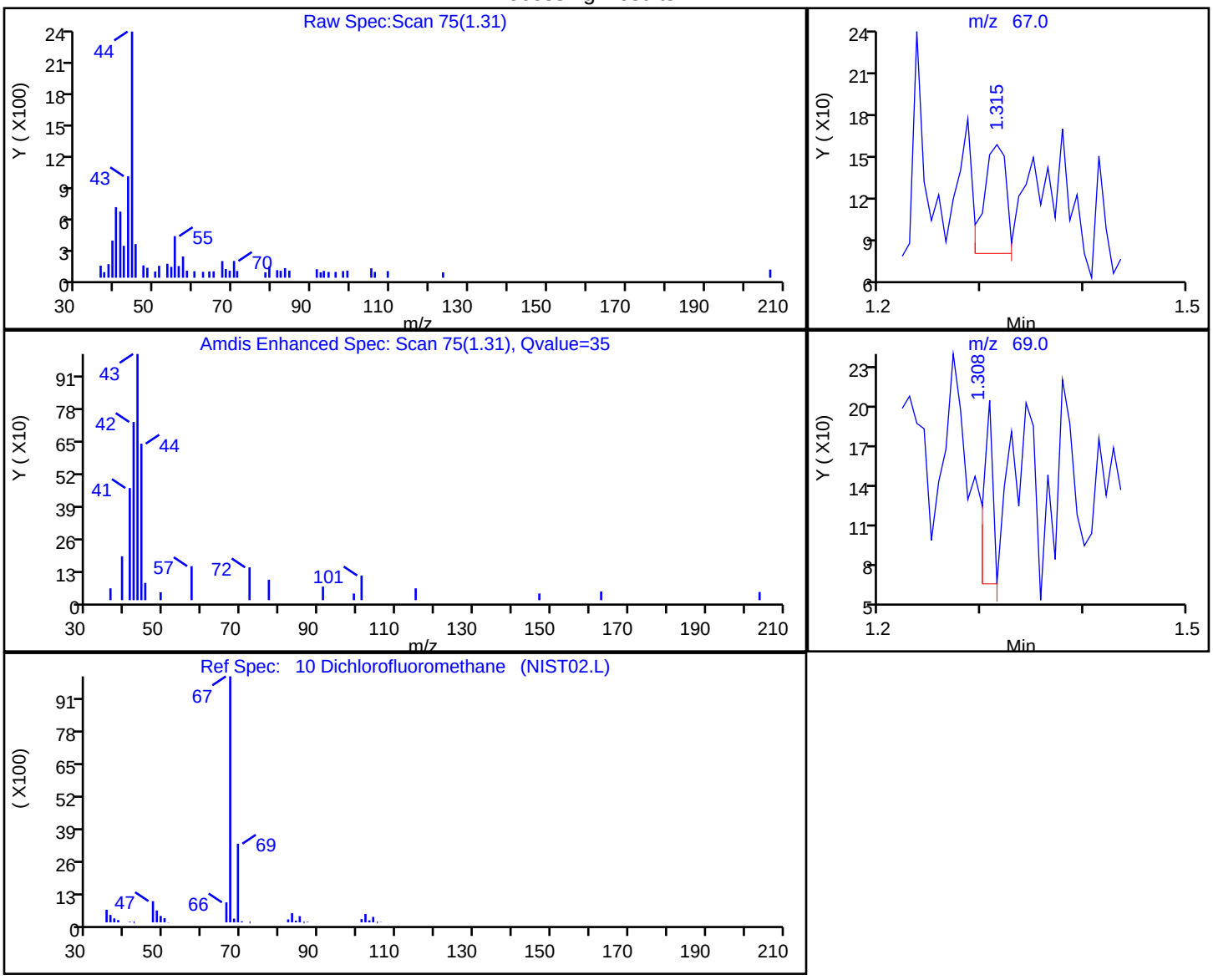
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
1.31	67.00	115	0.018107
1.31	69.00	83	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

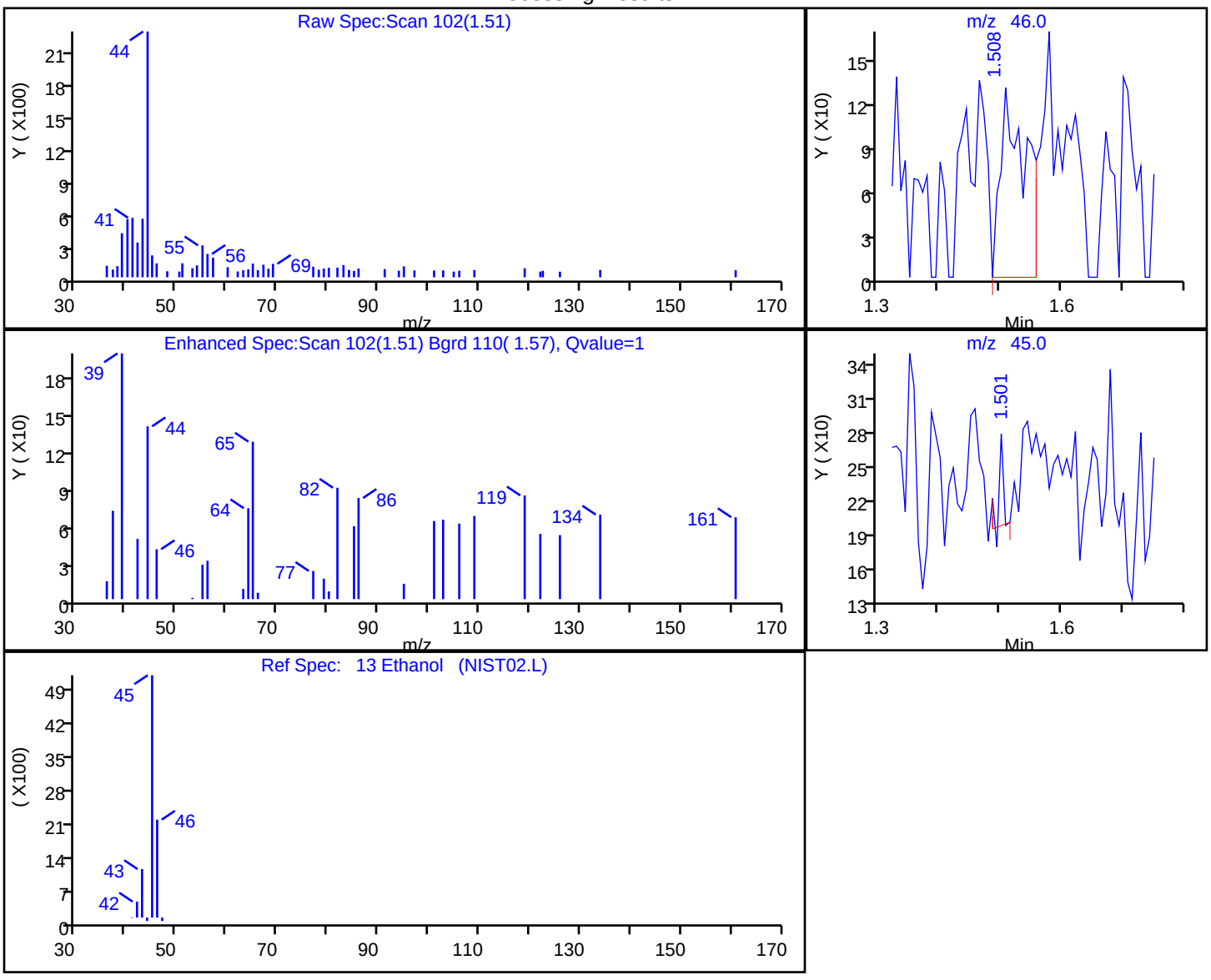
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
1.51	46.00	357	15.263043
1.50	45.00	38	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

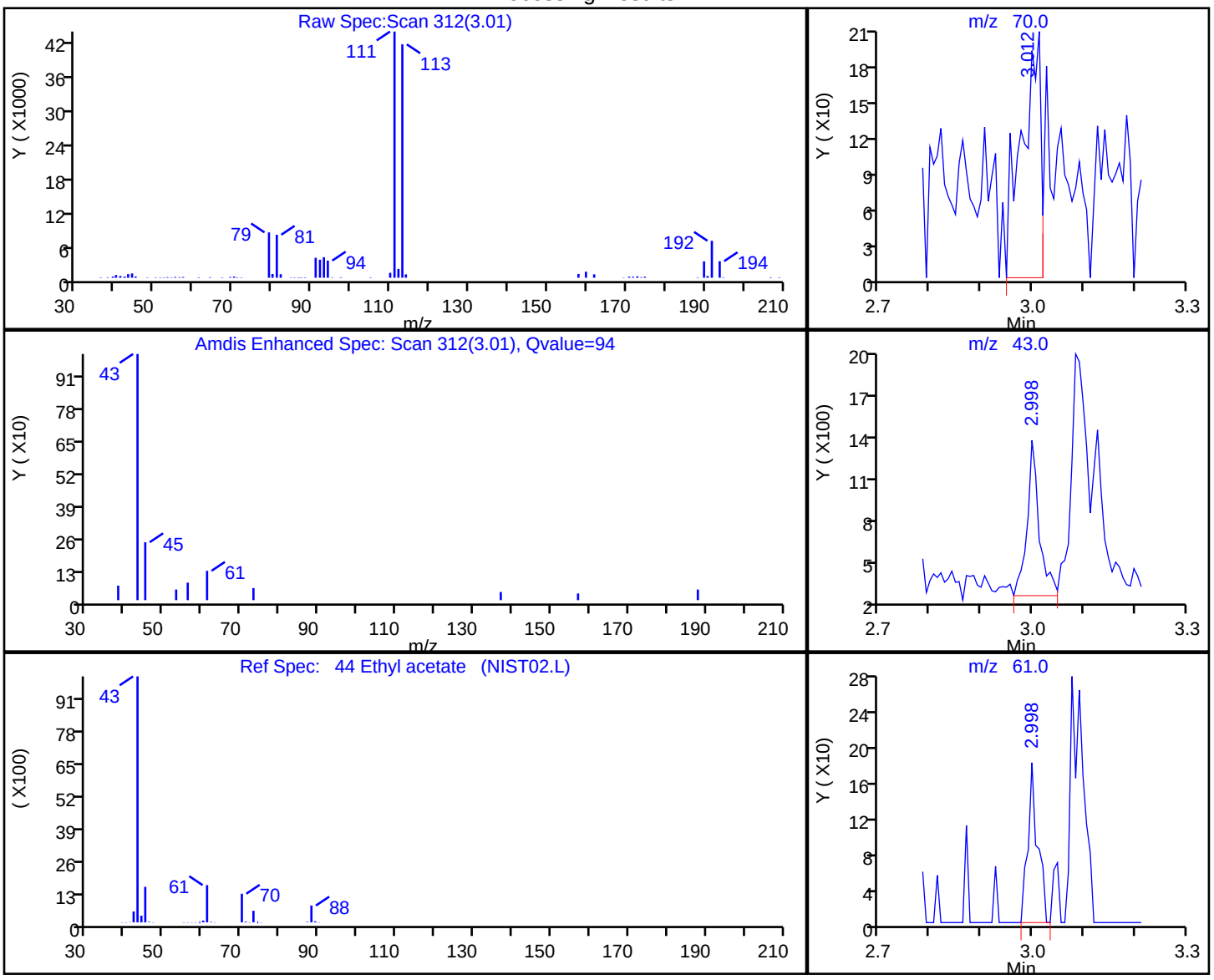
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
3.01	70.00	535	1.065677
3.00	43.00	1875	
3.00	61.00	234	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

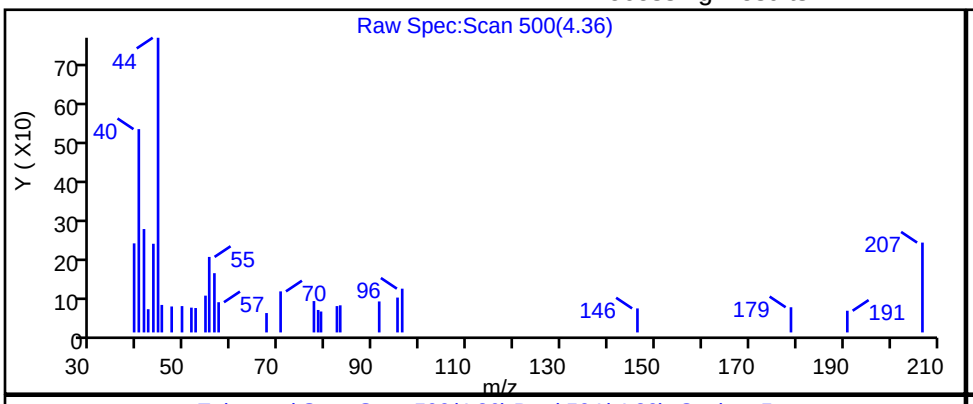
User Disabled Compound Report

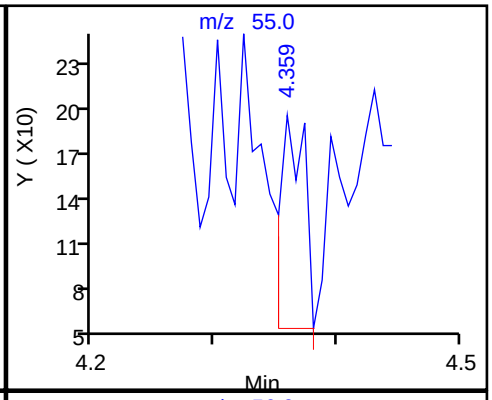
TestAmerica Edison

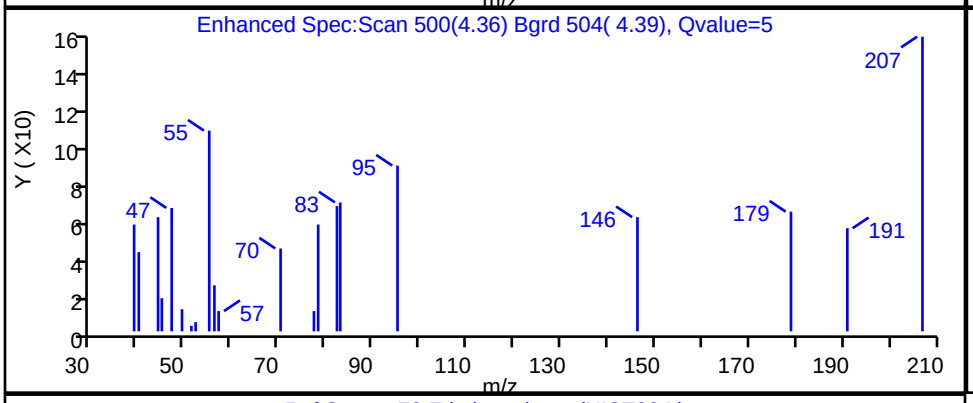
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

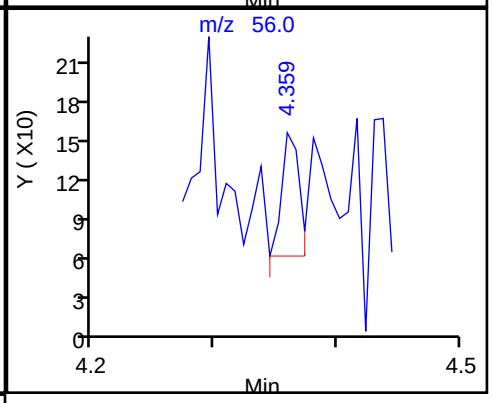
70 Ethyl acrylate, CAS: 140-88-5

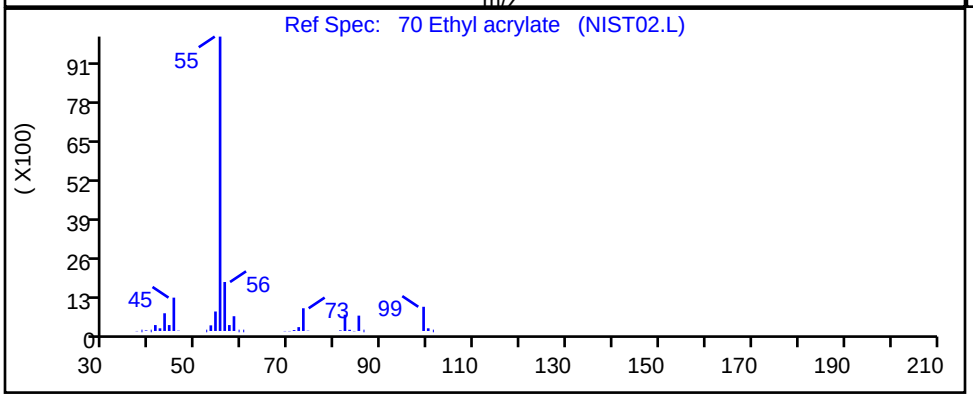
Processing Results











RT	Mass	Response	Amount
4.36	55.00	193	0.036806
4.36	56.00	95	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

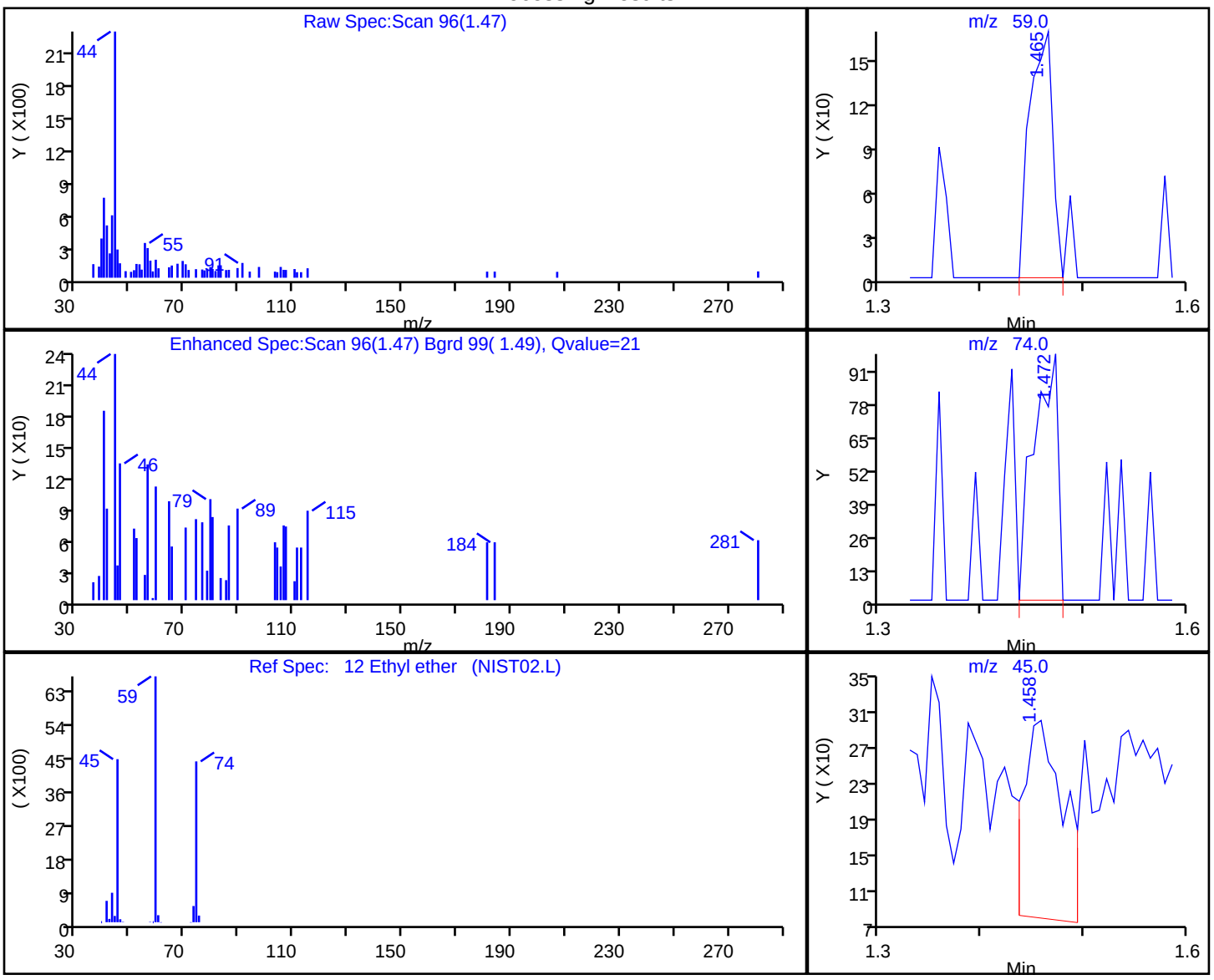
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethyl ether, CAS: 60-29-7

Processing Results



RT	Mass	Response	Amount
1.47	59.00	253	0.079297
1.47	74.00	160	
1.46	45.00	601	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

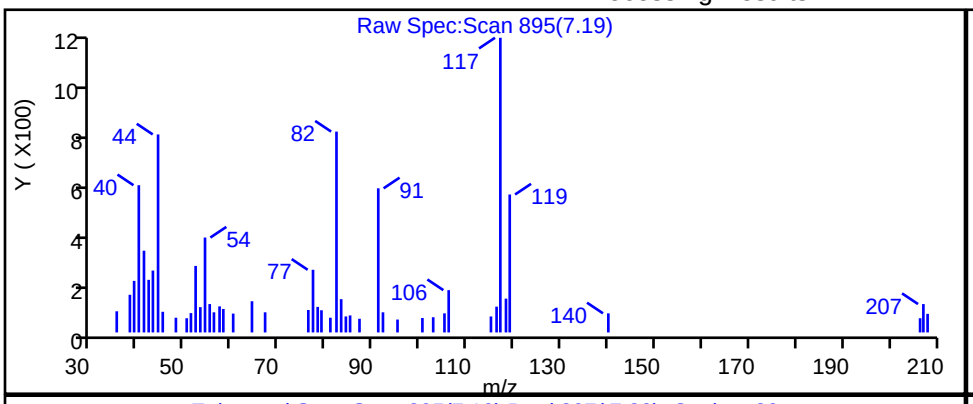
User Disabled Compound Report

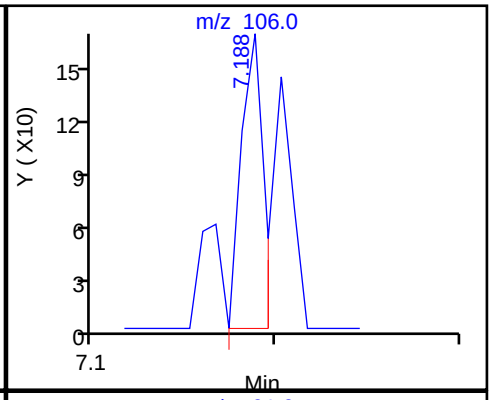
TestAmerica Edison

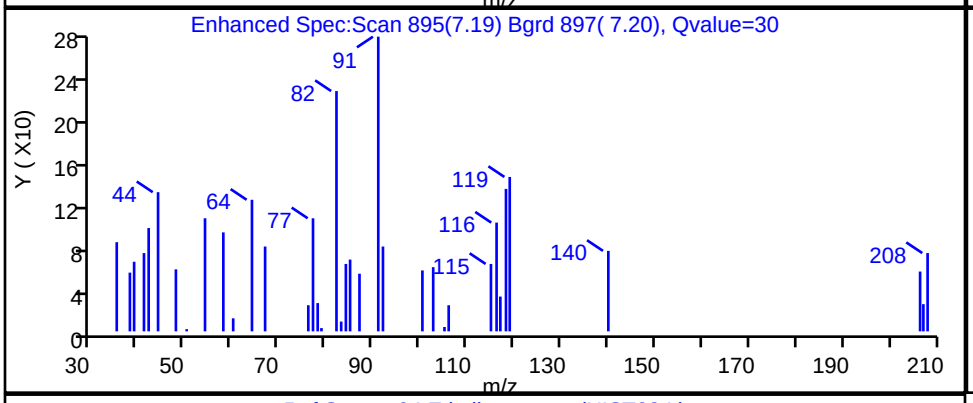
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

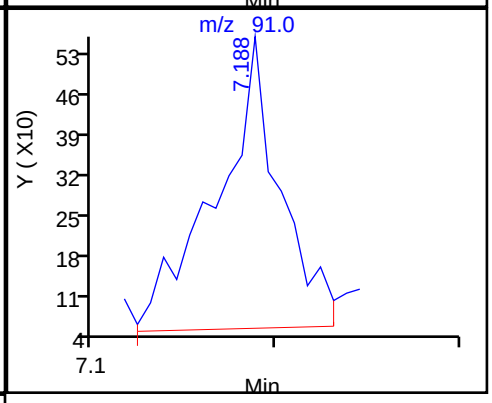
94 Ethylbenzene, CAS: 100-41-4

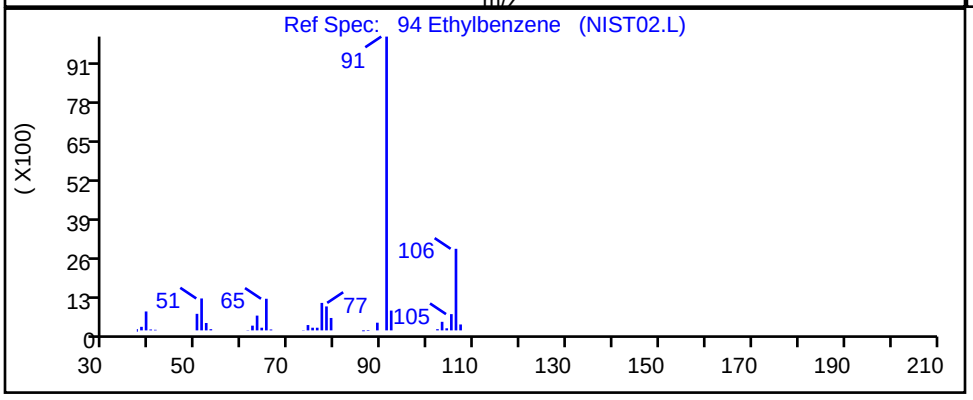
Processing Results











RT	Mass	Response	Amount
7.19	106.00	139	0.024768
7.19	91.00	1240	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

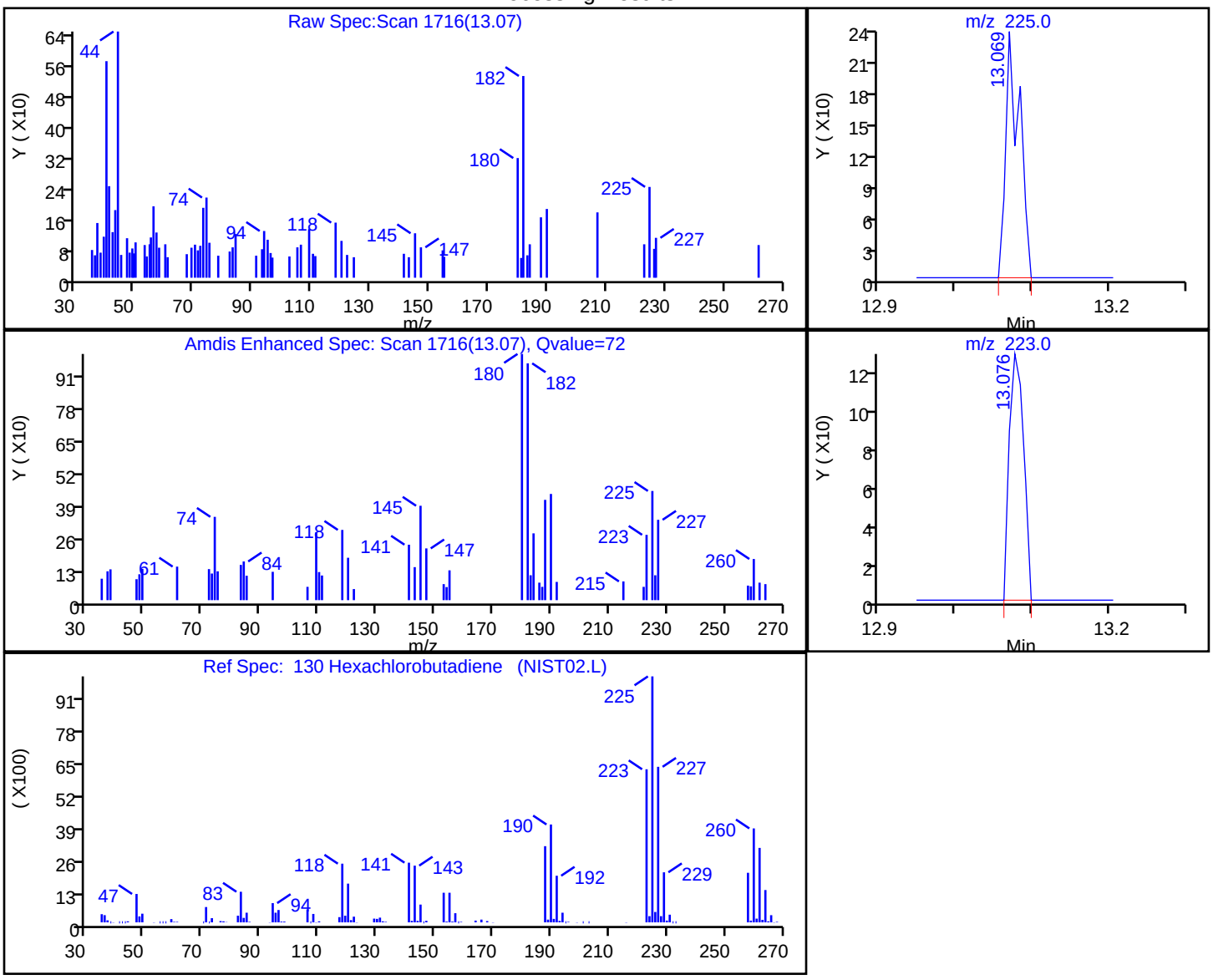
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

130 Hexachlorobutadiene, CAS: 87-68-3

Processing Results



RT	Mass	Response	Amount
13.07	225.00	300	0.121121
13.08	223.00	167	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

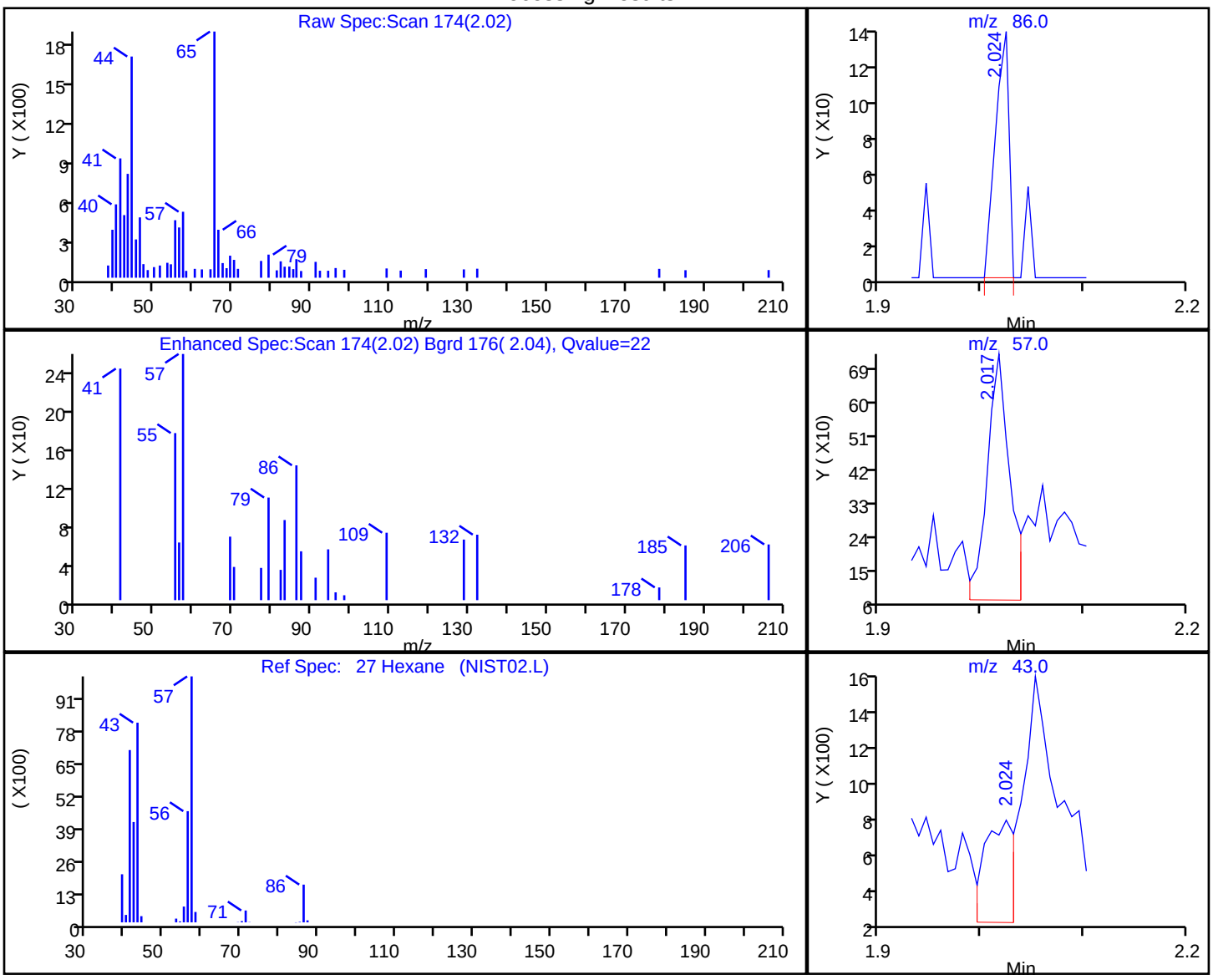
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

27 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
2.02	86.00	128	0.139601
2.02	57.00	1031	
2.02	43.00	1077	
2.02	56.00	757	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

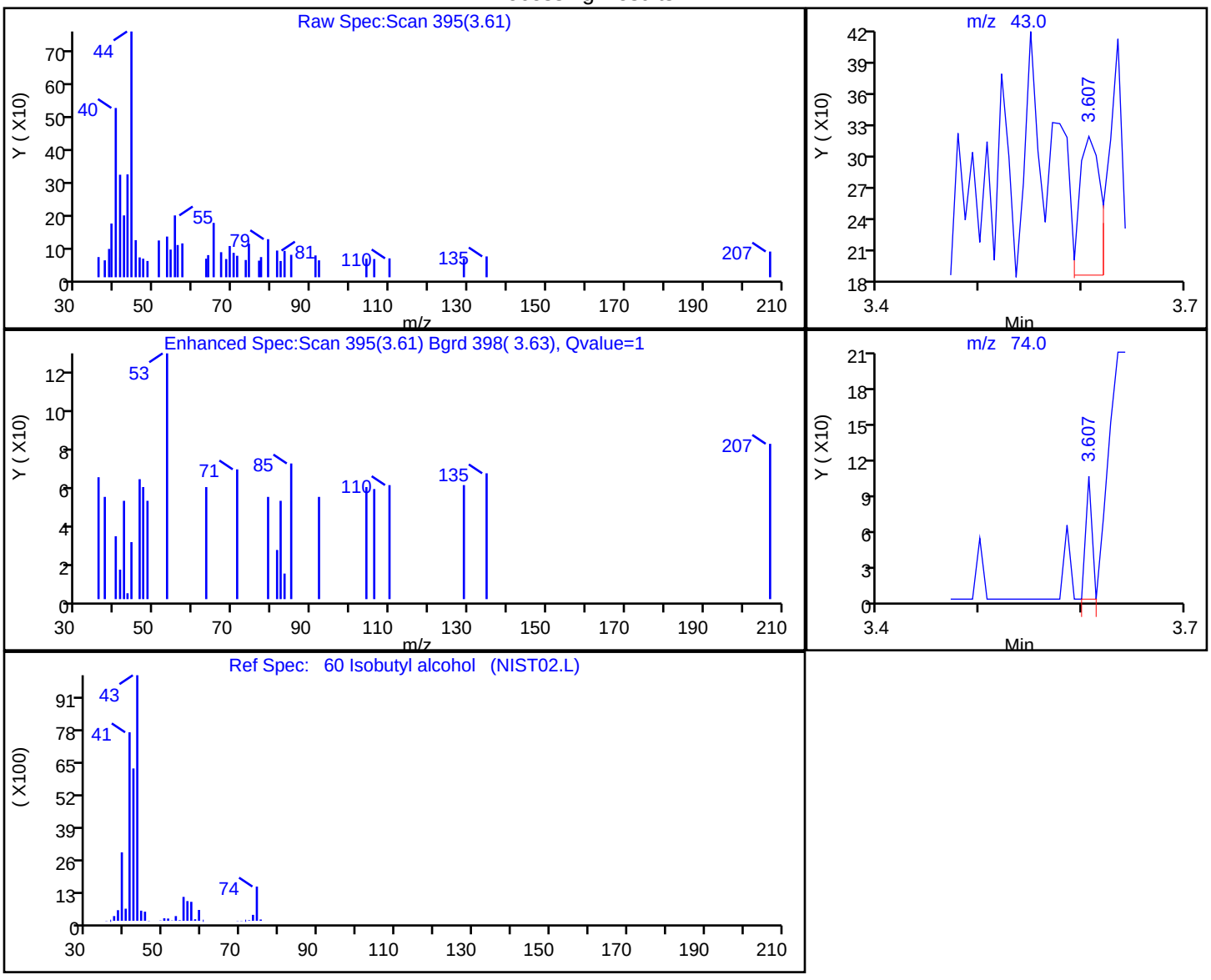
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 Isobutyl alcohol, CAS: 78-83-1

Processing Results



RT	Mass	Response	Amount
3.61	43.00	186	0.948206
3.61	74.00	44	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

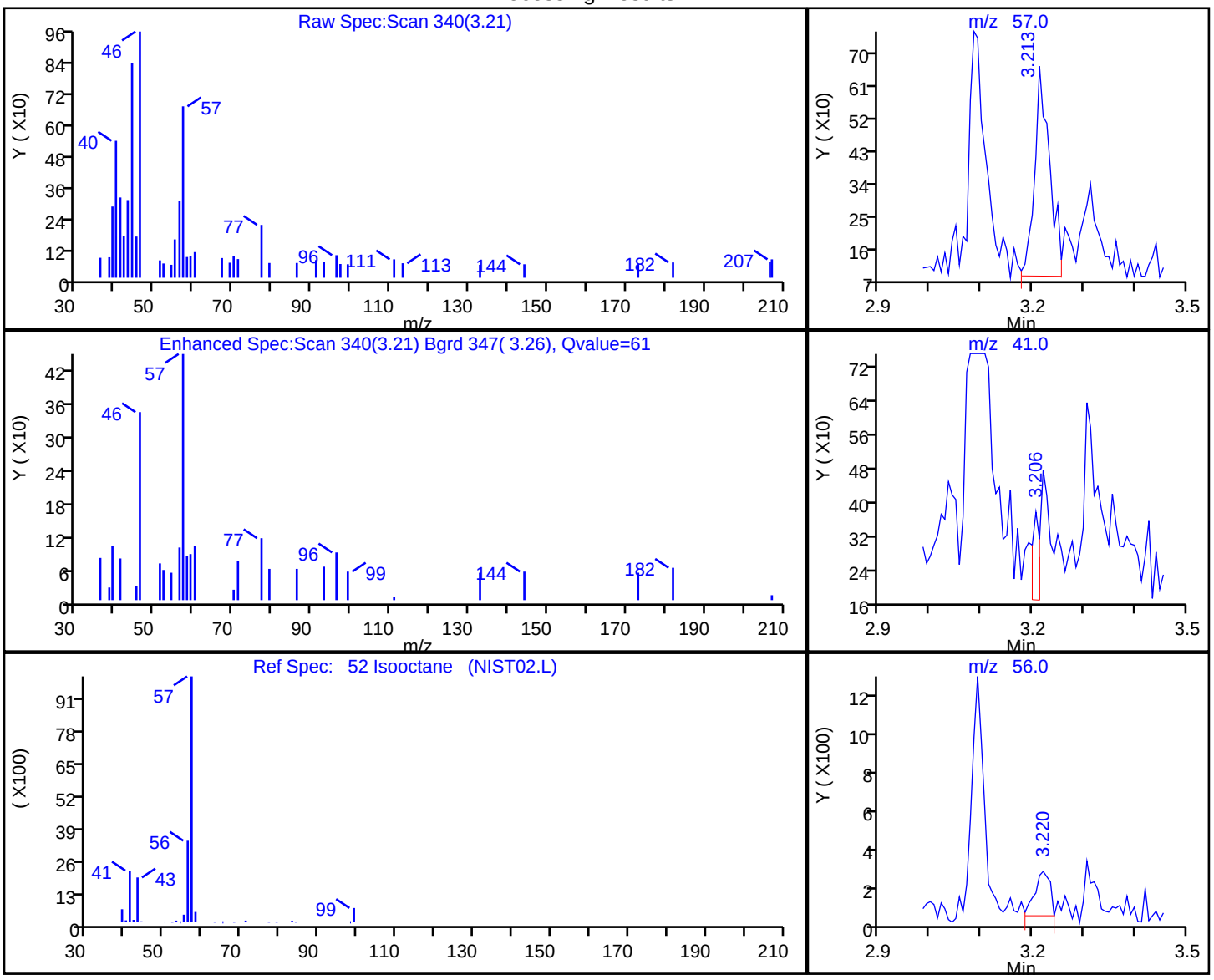
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

52 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
3.21	57.00	1195	0.086695
3.21	41.00	206	
3.22	56.00	431	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

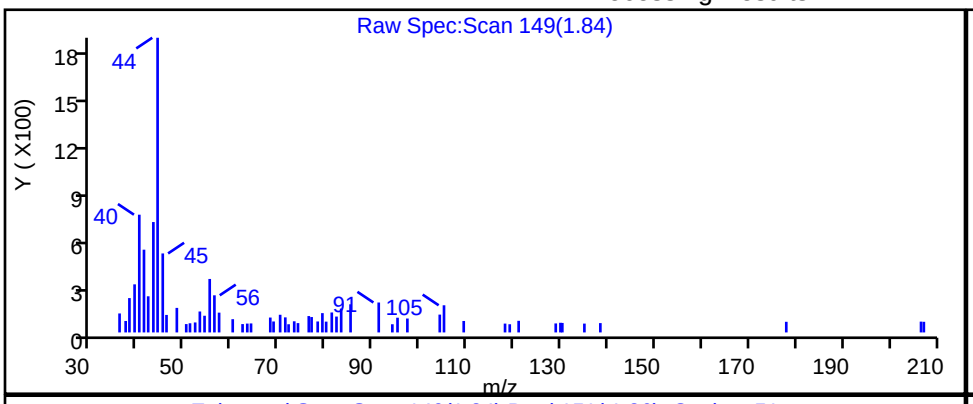
User Disabled Compound Report

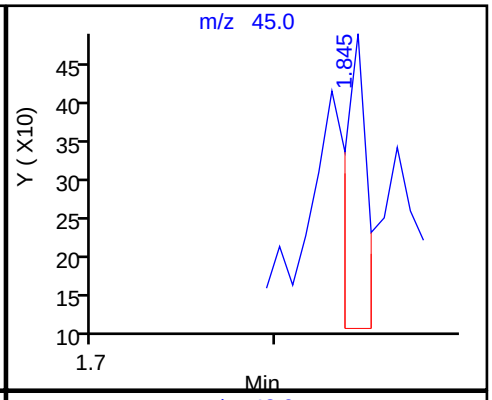
TestAmerica Edison

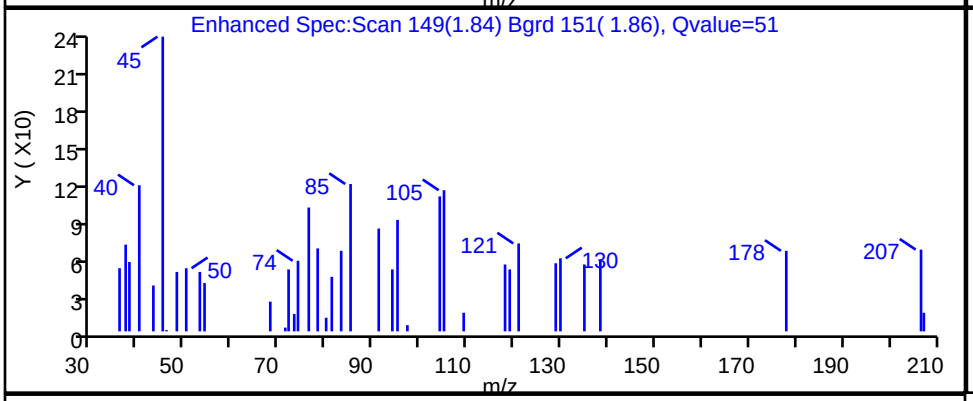
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

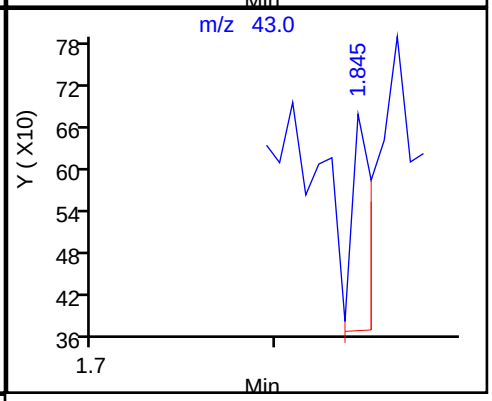
22 Isopropyl alcohol, CAS: 67-63-0

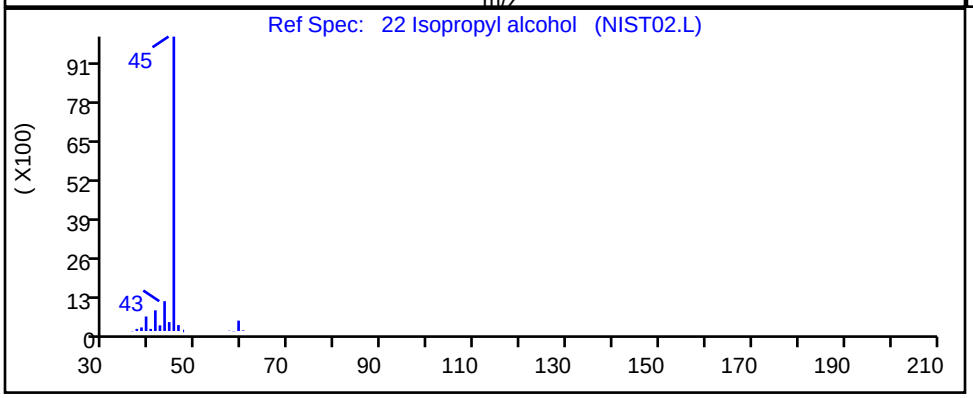
Processing Results











RT	Mass	Response	Amount
1.84	45.00	315	1.009192
1.84	43.00	231	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

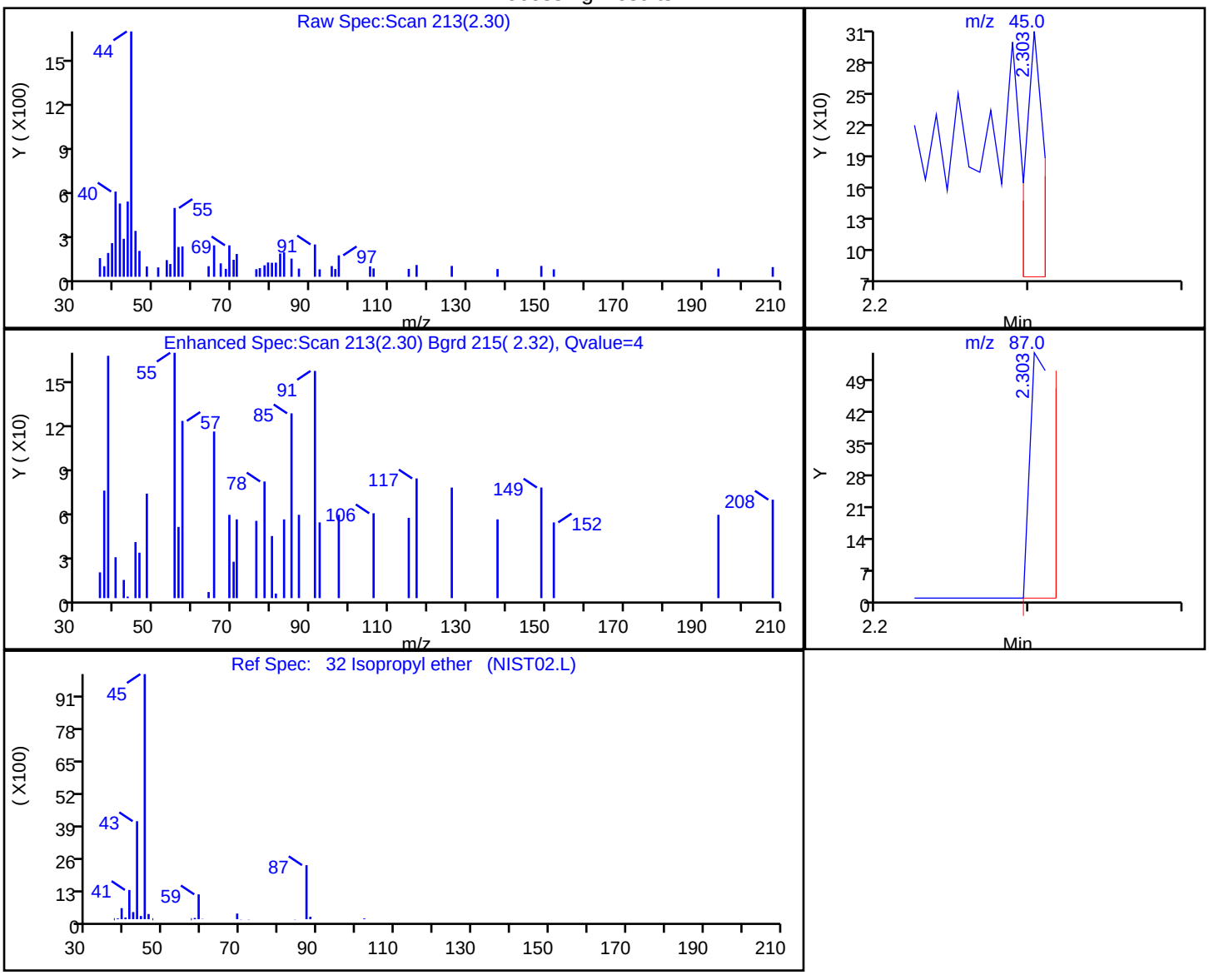
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

32 Isopropyl ether, CAS: 108-20-3

Processing Results



RT	Mass	Response	Amount
2.30	45.00	184	0.012844
2.30	87.00	46	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

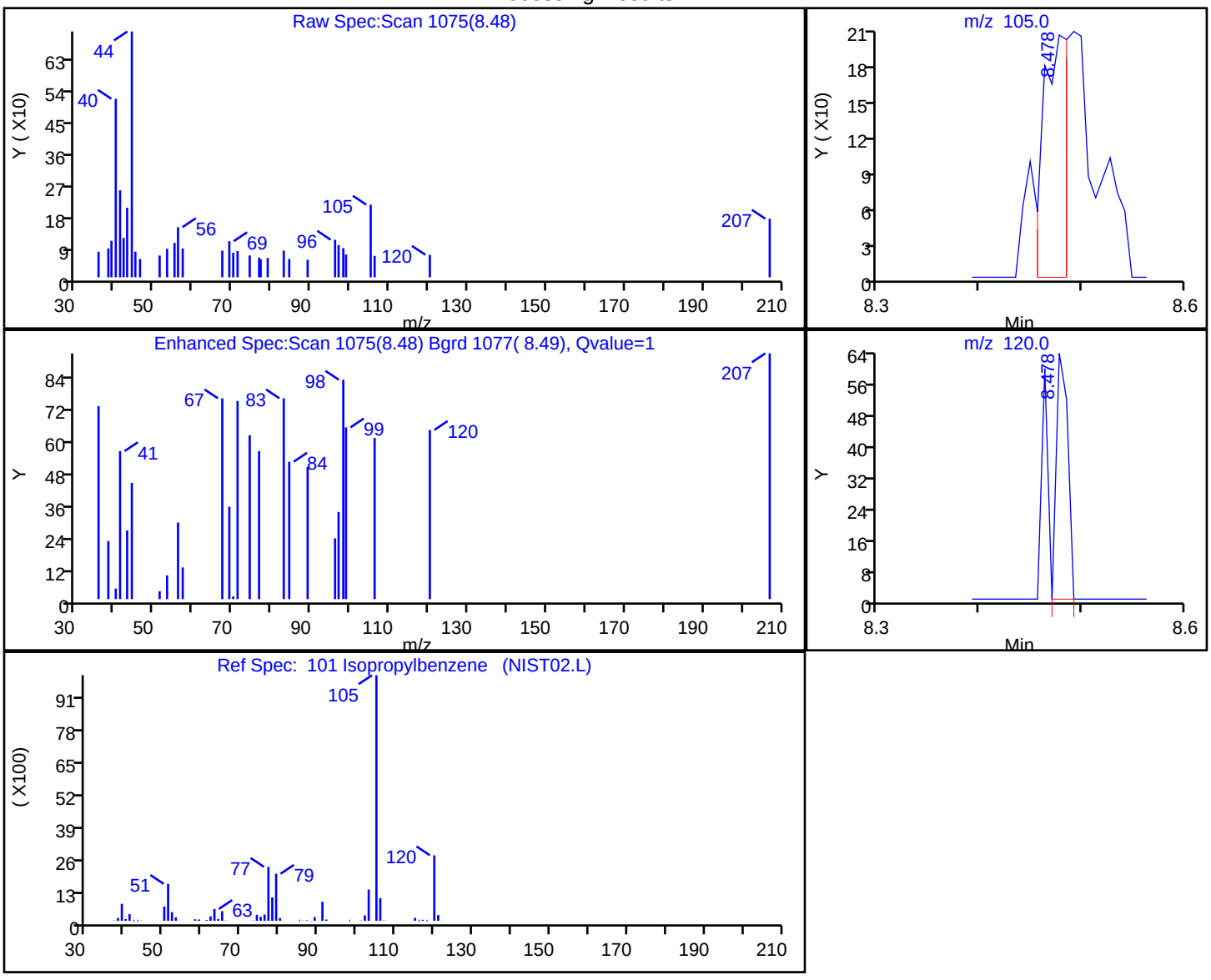
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

101 Isopropylbenzene, CAS: 98-82-8

Processing Results



RT	Mass	Response	Amount
8.48	105.00	349	0.019507
8.48	120.00	50	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

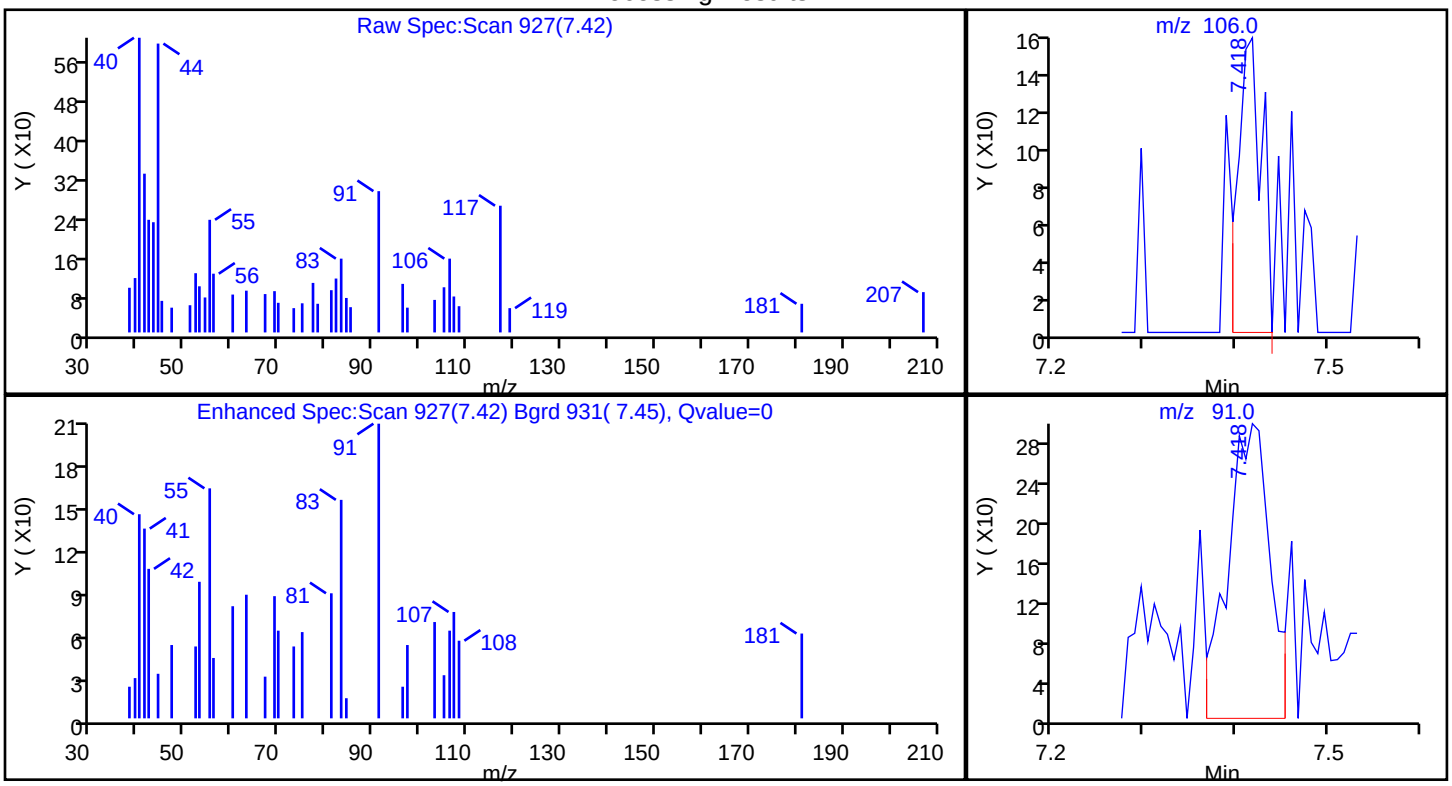
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
7.42	106.00	274	0.040362
7.42	91.00	945	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

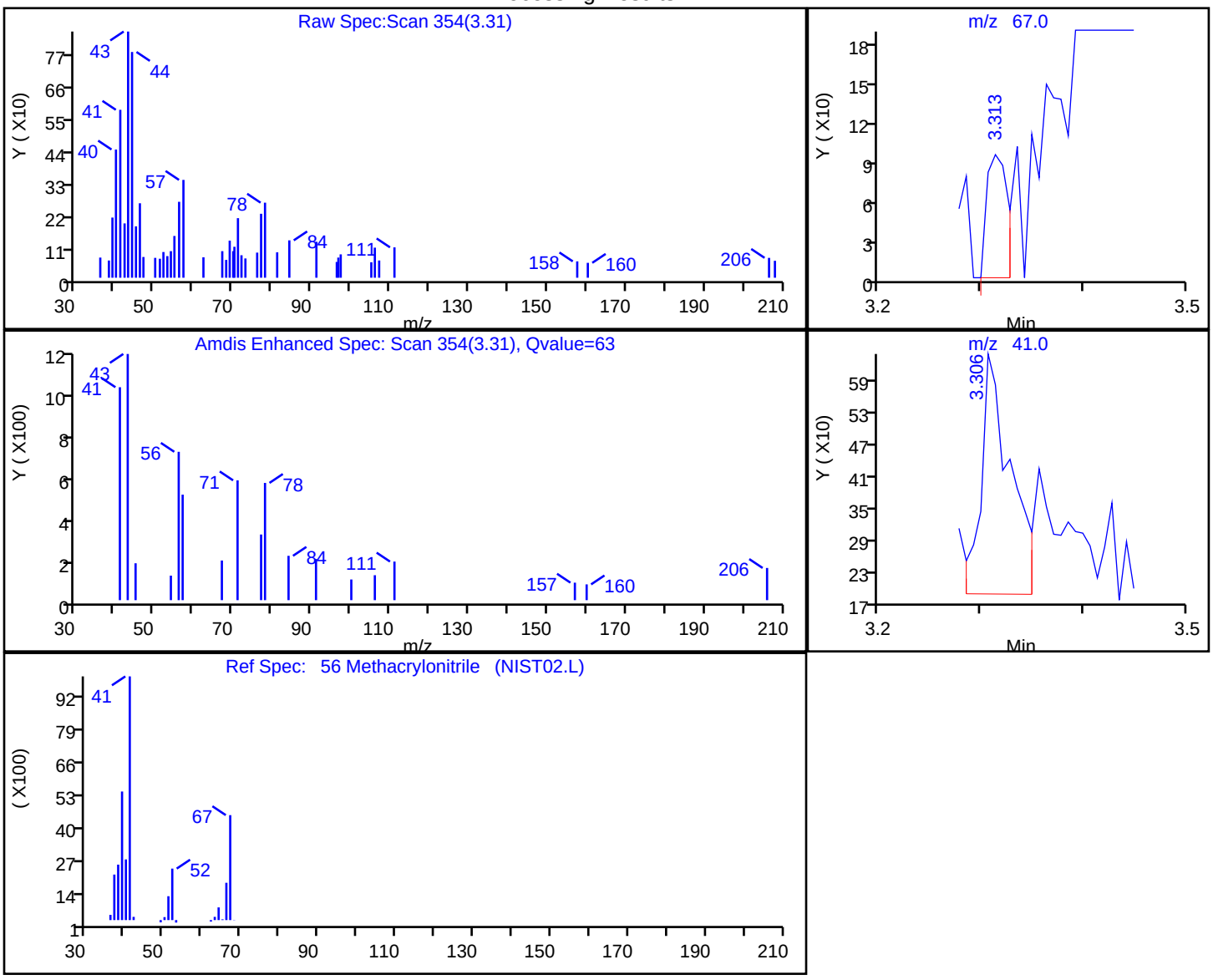
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
3.31	67.00	130	0.079152
3.31	41.00	909	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

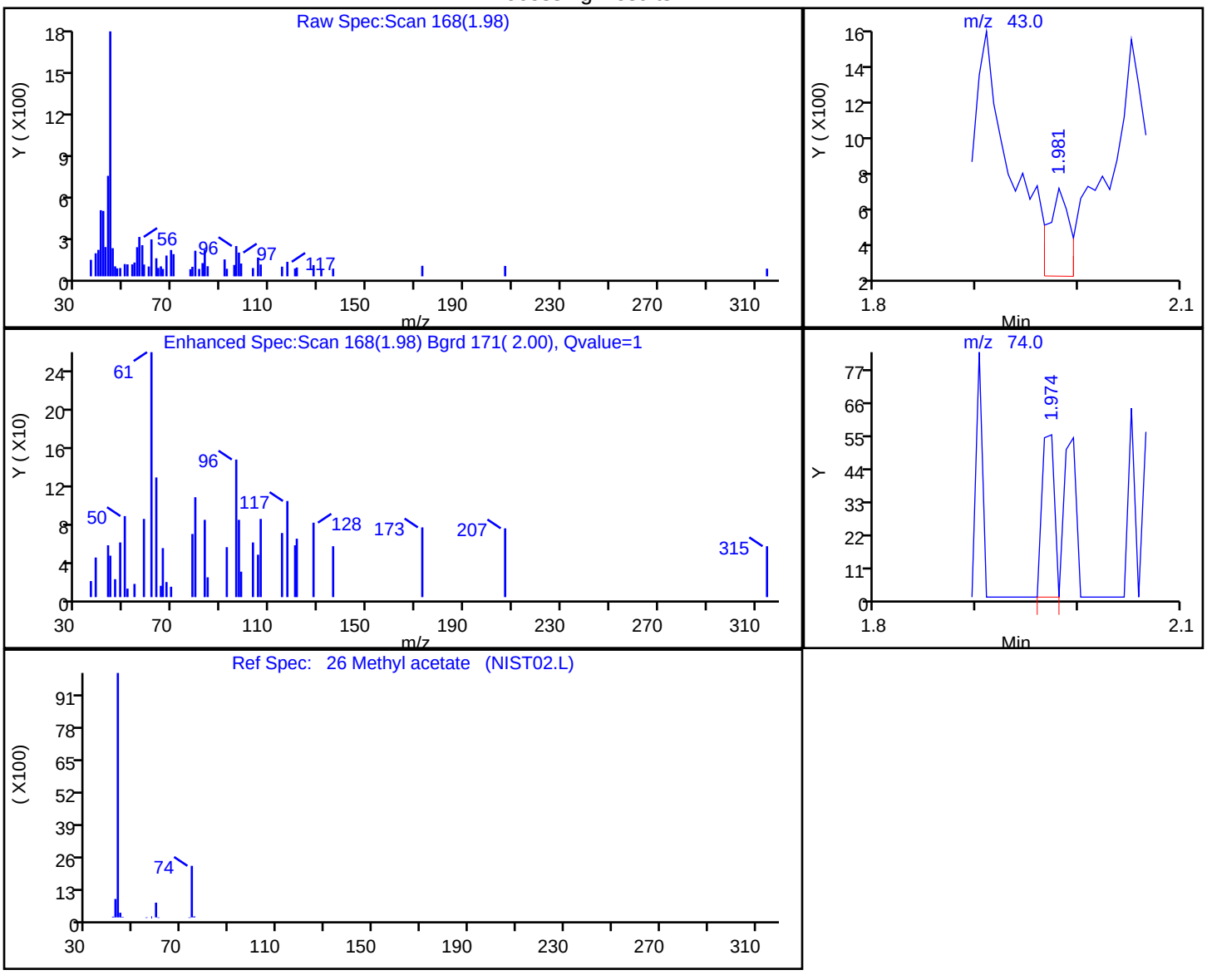
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
1.98	43.00	695	0.209440
1.97	74.00	47	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

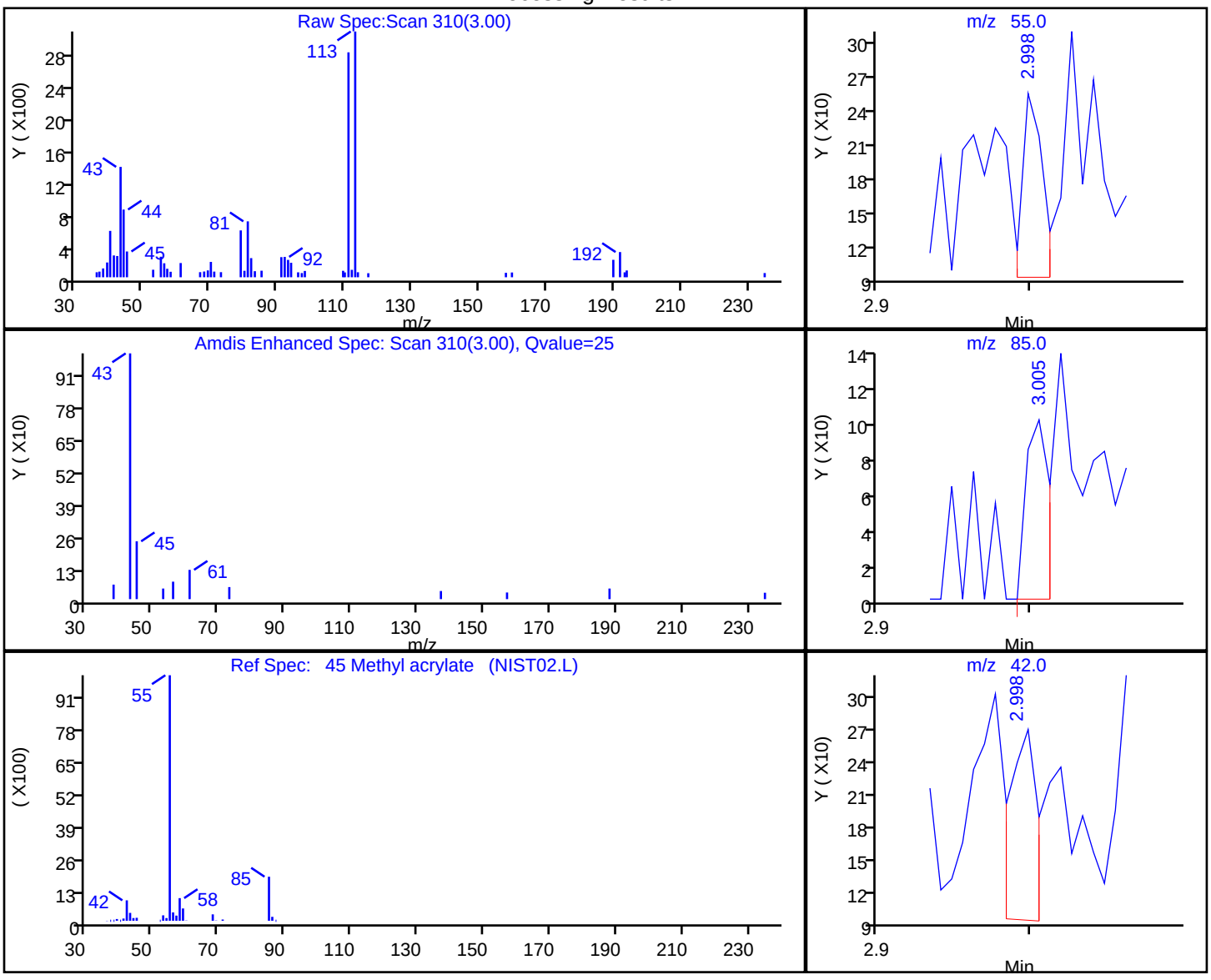
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
3.00	55.00	149	0.039437
3.01	85.00	103	
3.00	42.00	220	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

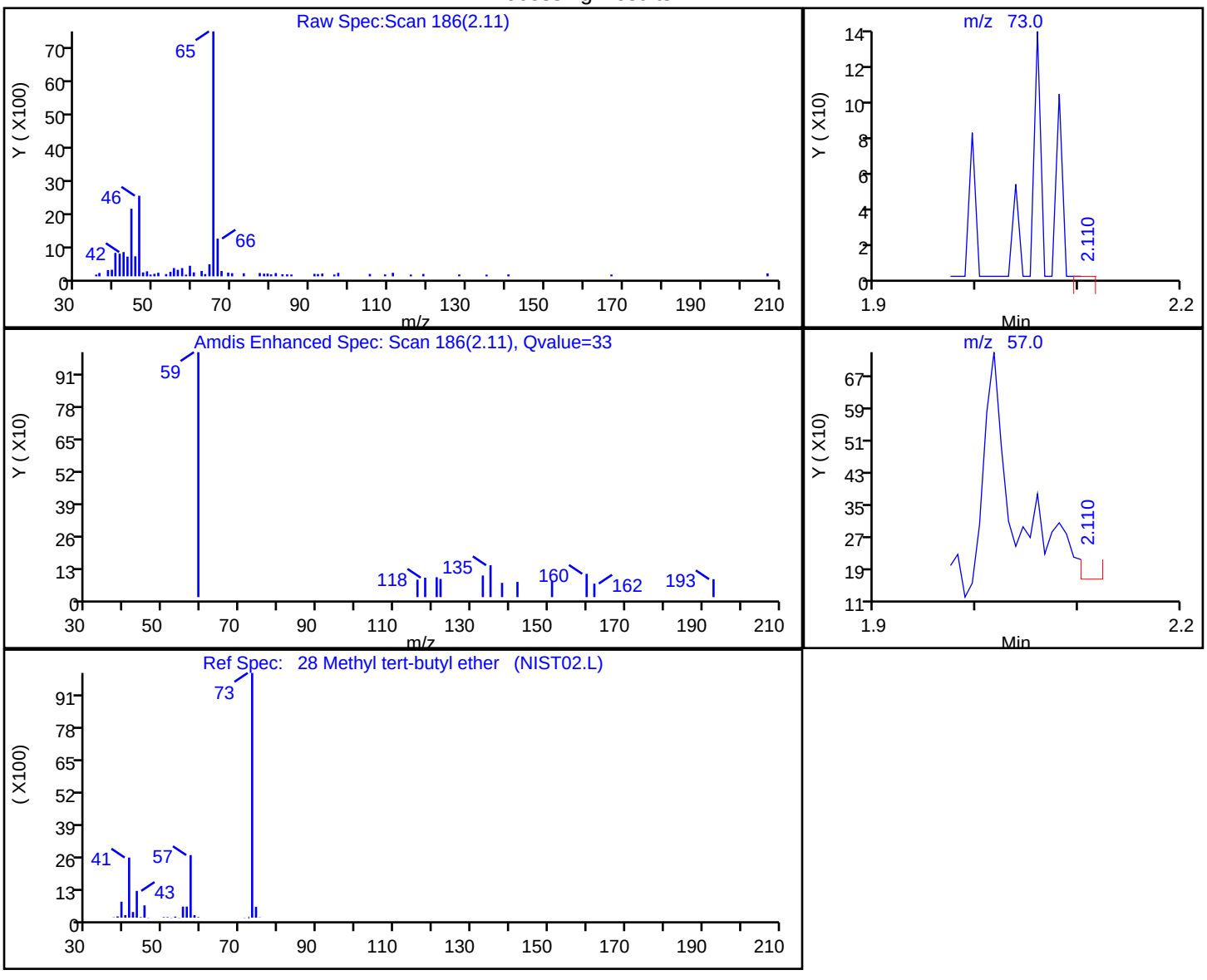
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
2.11	73.00	40	0.003656
2.11	57.00	232	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

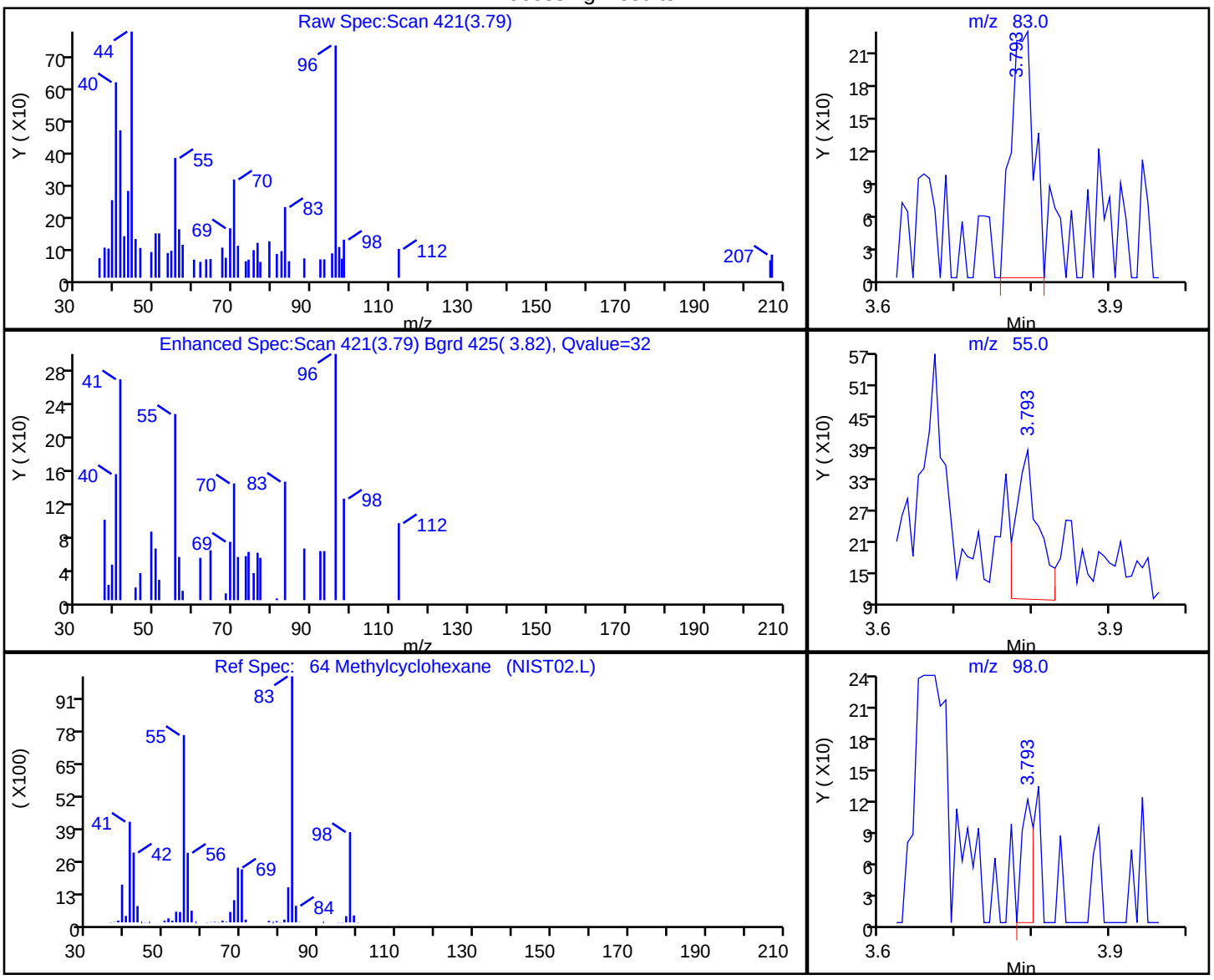
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
3.79	83.00	465	0.069256
3.79	55.00	577	
3.79	98.00	130	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

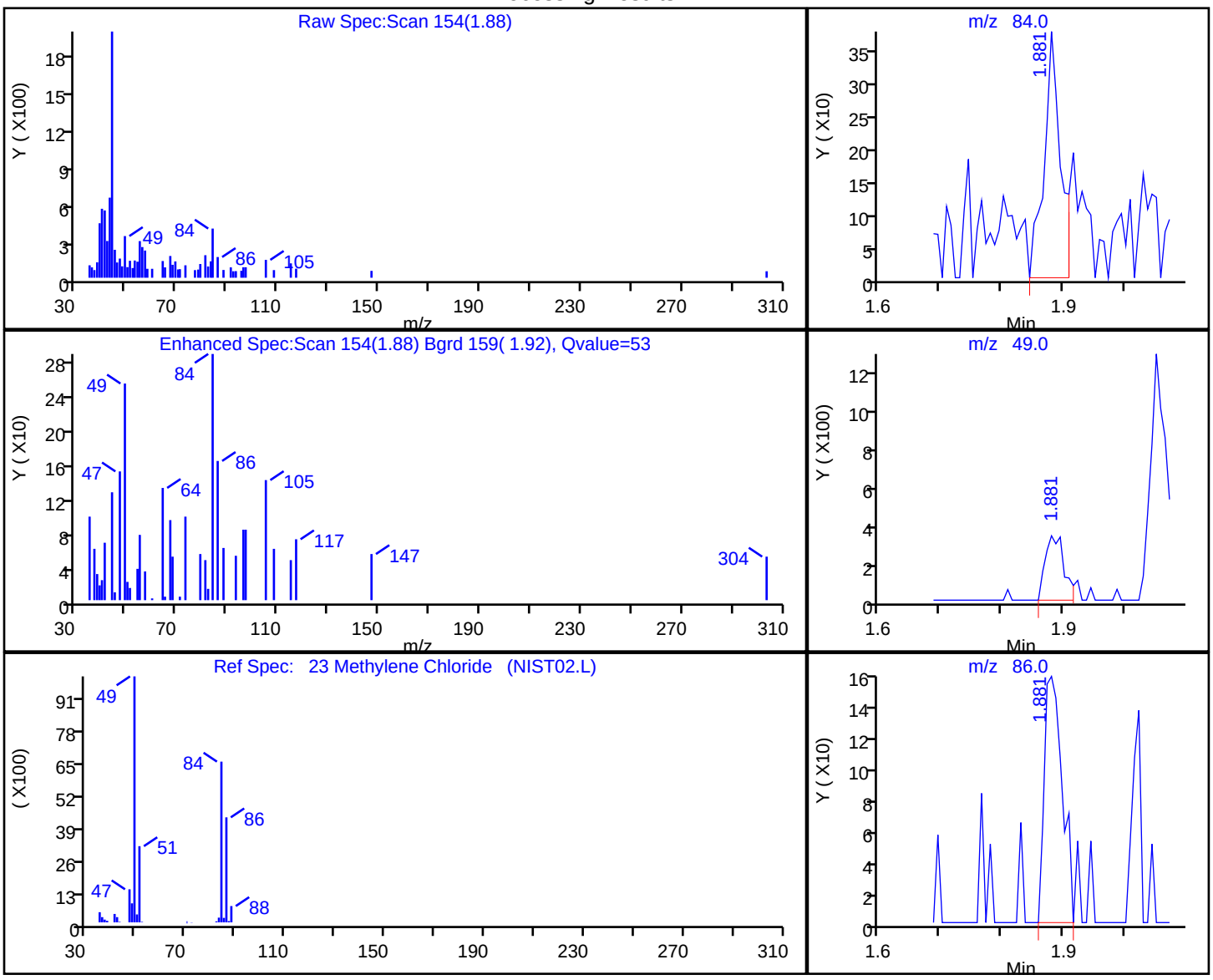
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
1.88	84.00	707	0.184335
1.88	49.00	694	
1.88	86.00	328	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

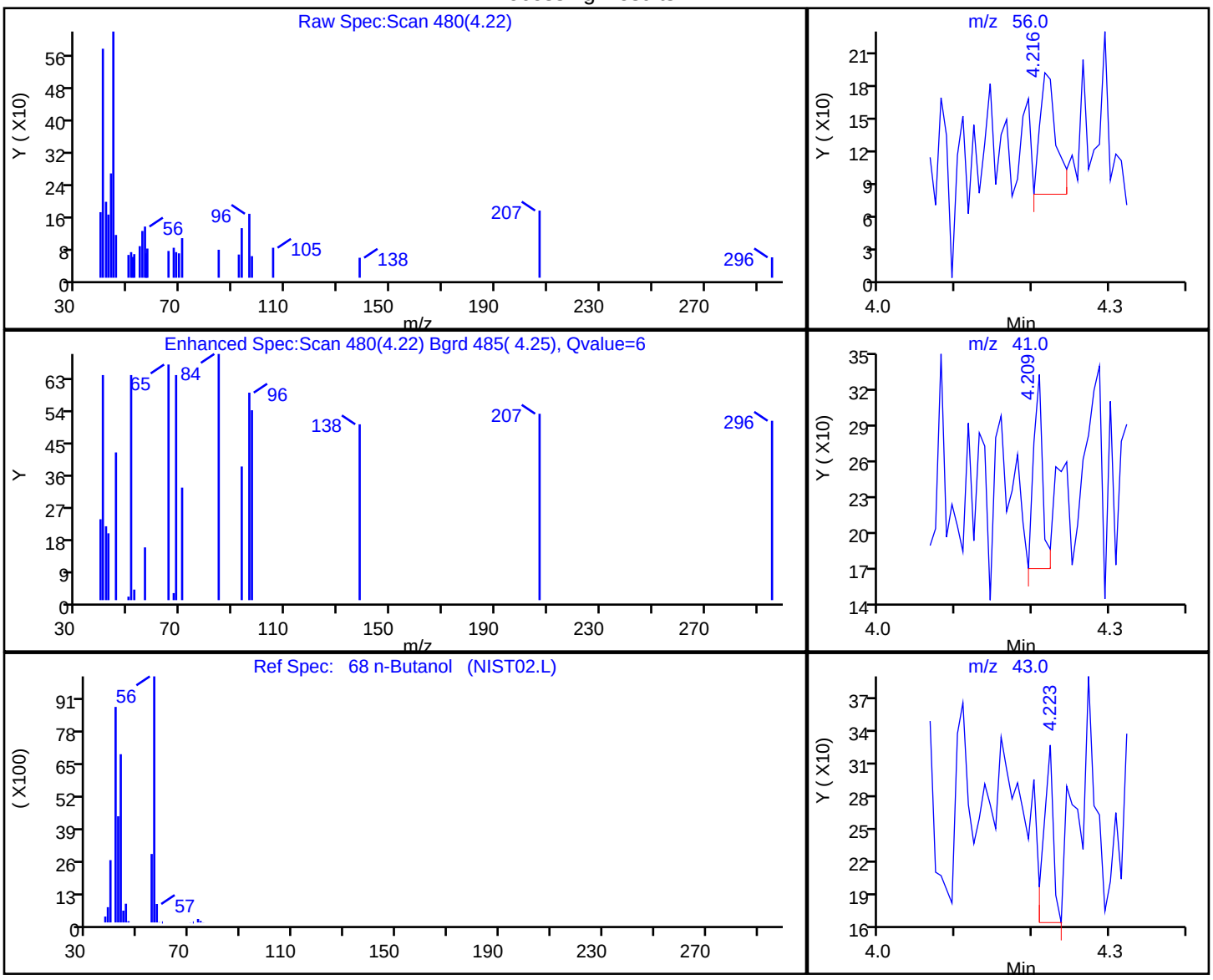
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

68 n-Butanol, CAS: 71-36-3

Processing Results



RT	Mass	Response	Amount
4.22	56.00	164	1.253551
4.21	41.00	131	
4.22	43.00	130	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

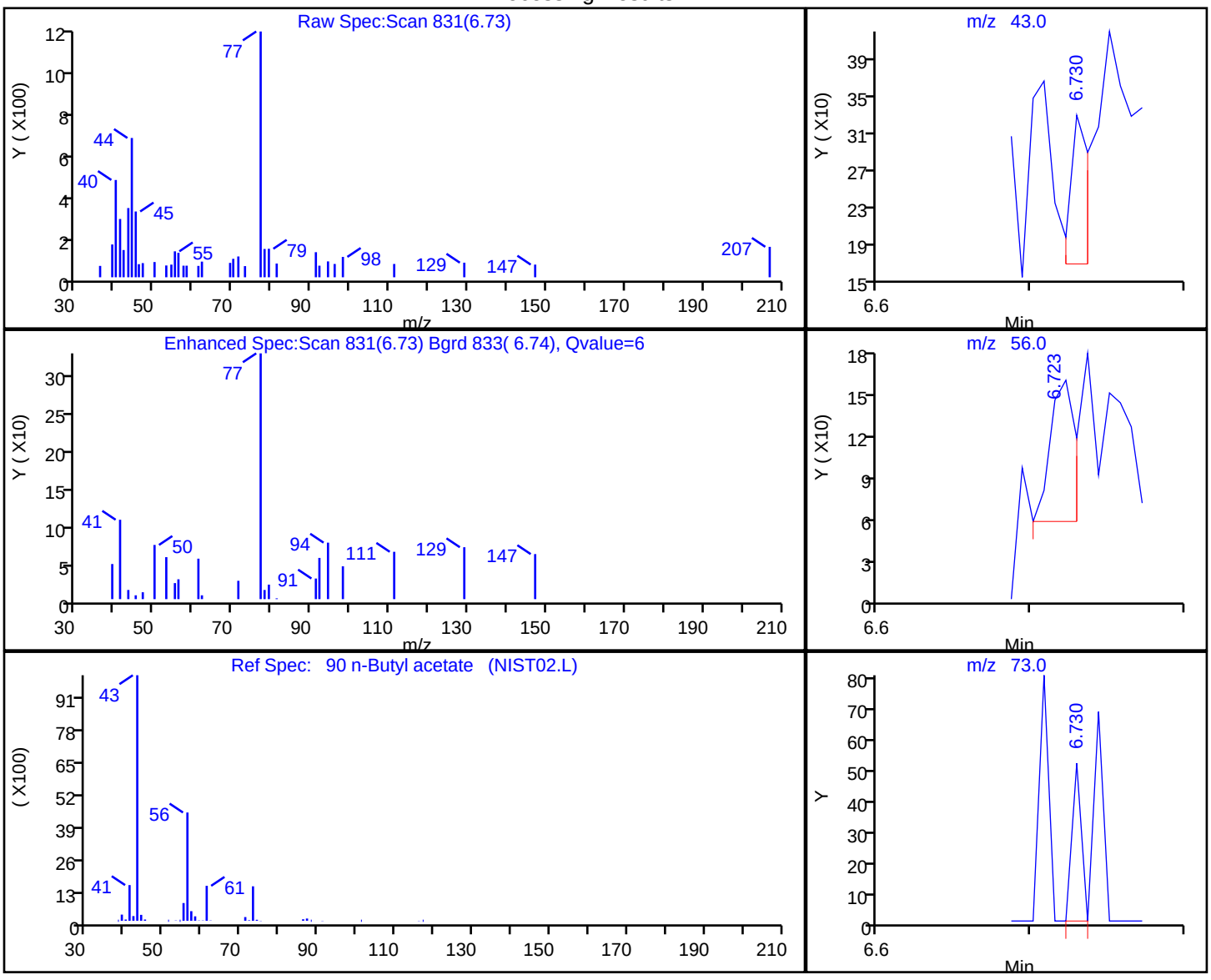
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

90 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
6.73	43.00	129	0.018877
6.72	56.00	115	
6.73	73.00	22	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

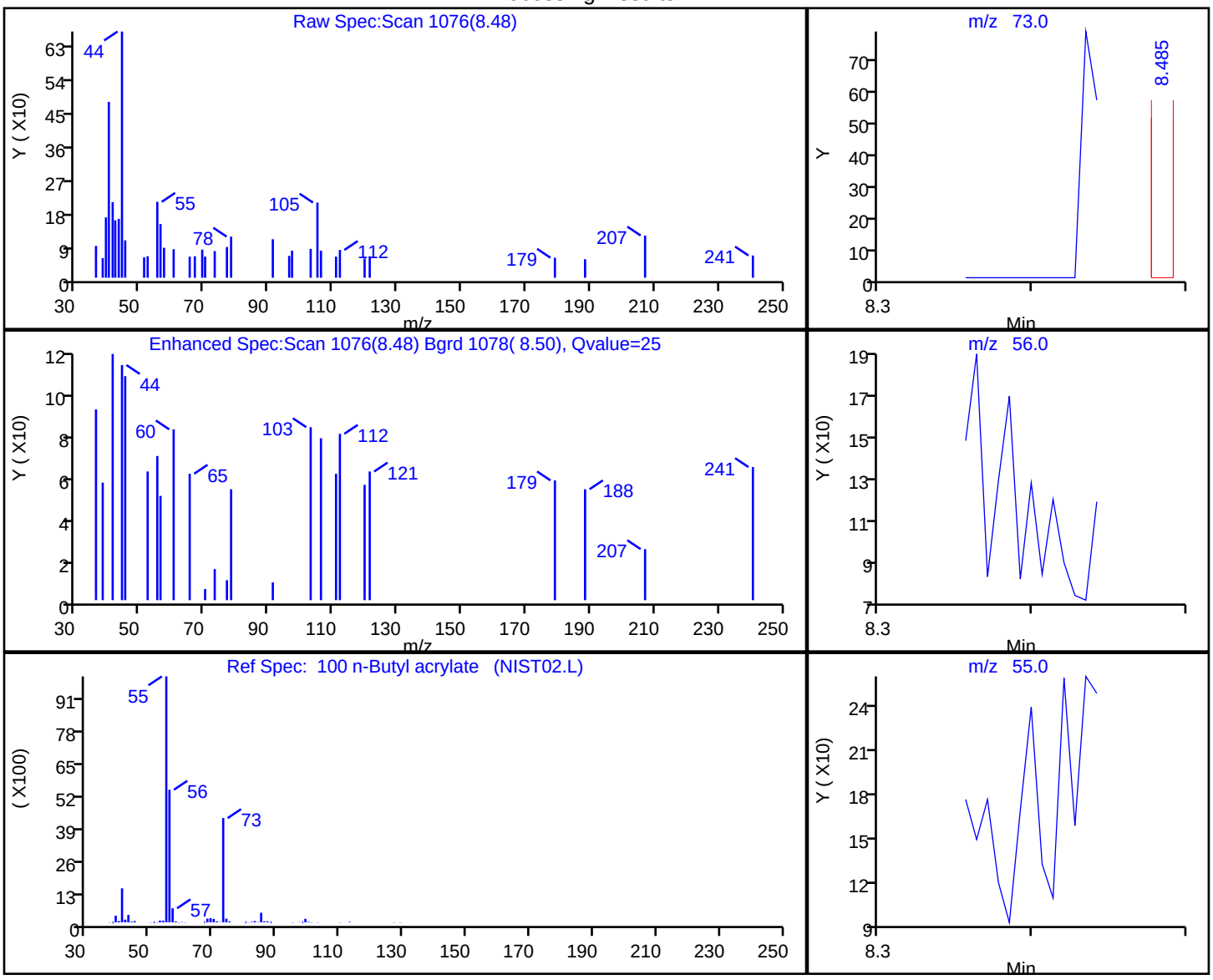
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

100 n-Butyl acrylate, CAS: 141-32-2

Processing Results



RT	Mass	Response	Amount
8.48	73.00	31	0.010695
8.48	56.00	152	
8.48	55.00	107	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

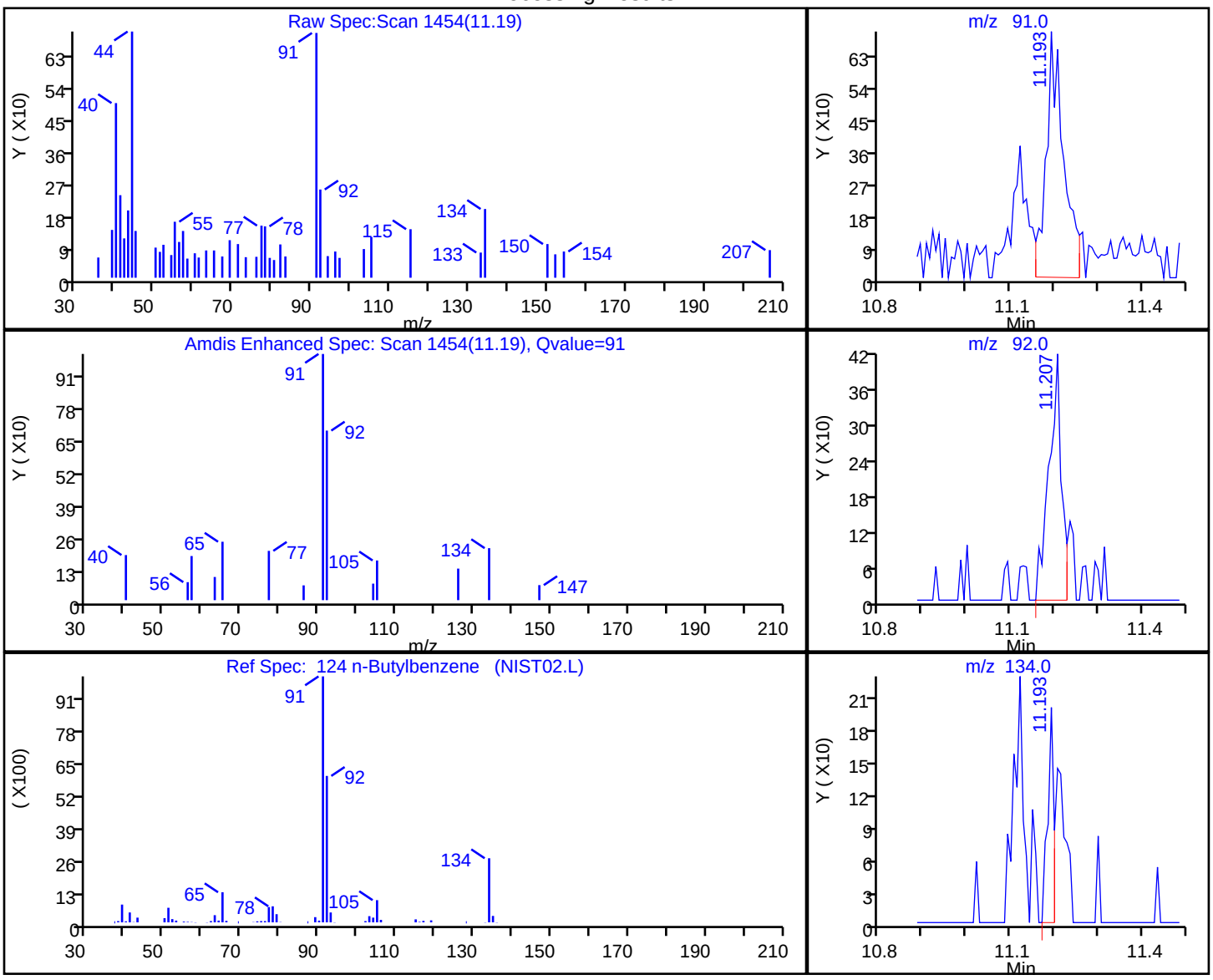
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

124 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
11.19	91.00	1920	0.125270
11.21	92.00	834	
11.19	134.00	189	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

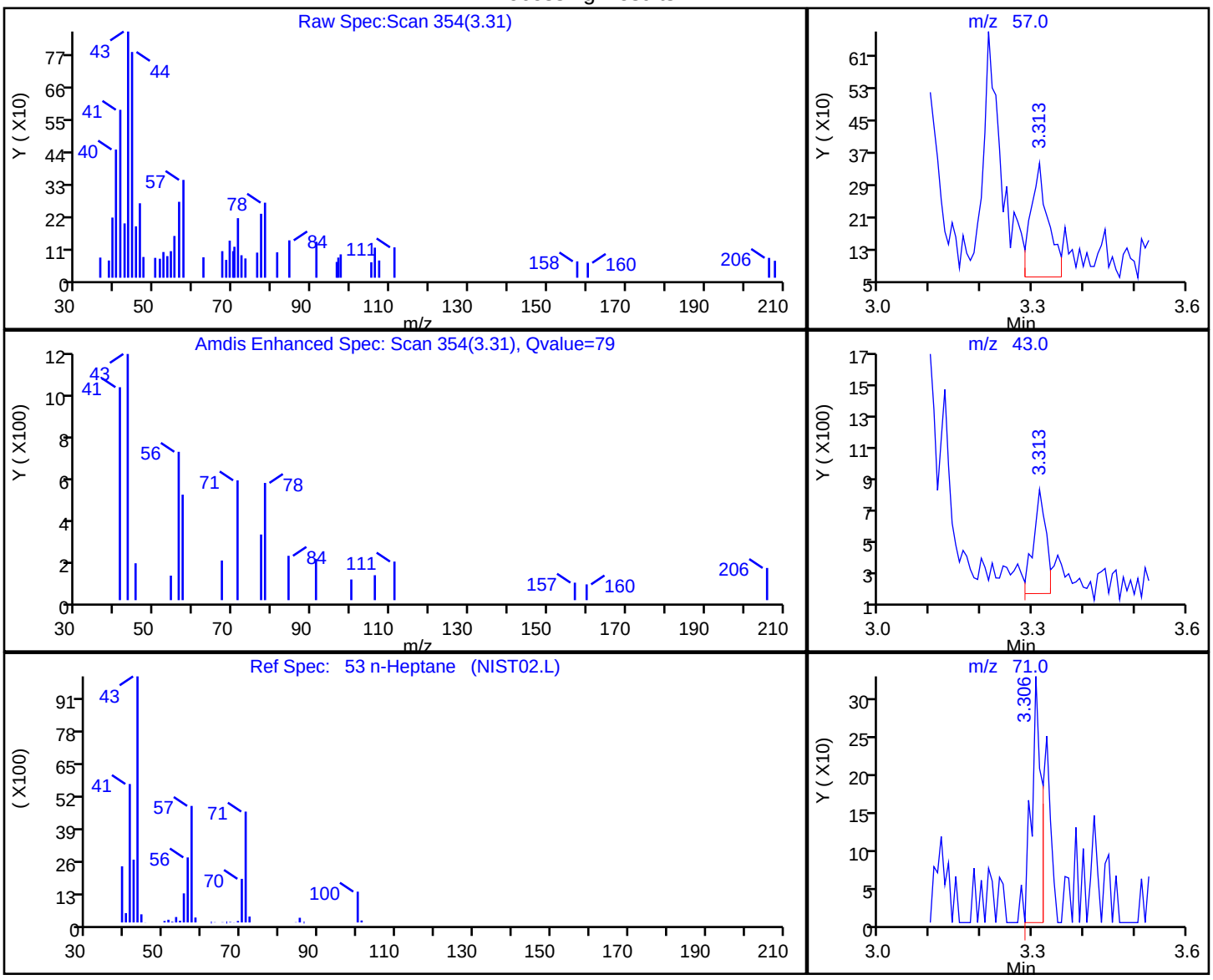
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

53 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
3.31	57.00	671	0.178024
3.31	43.00	1088	
3.31	71.00	424	

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

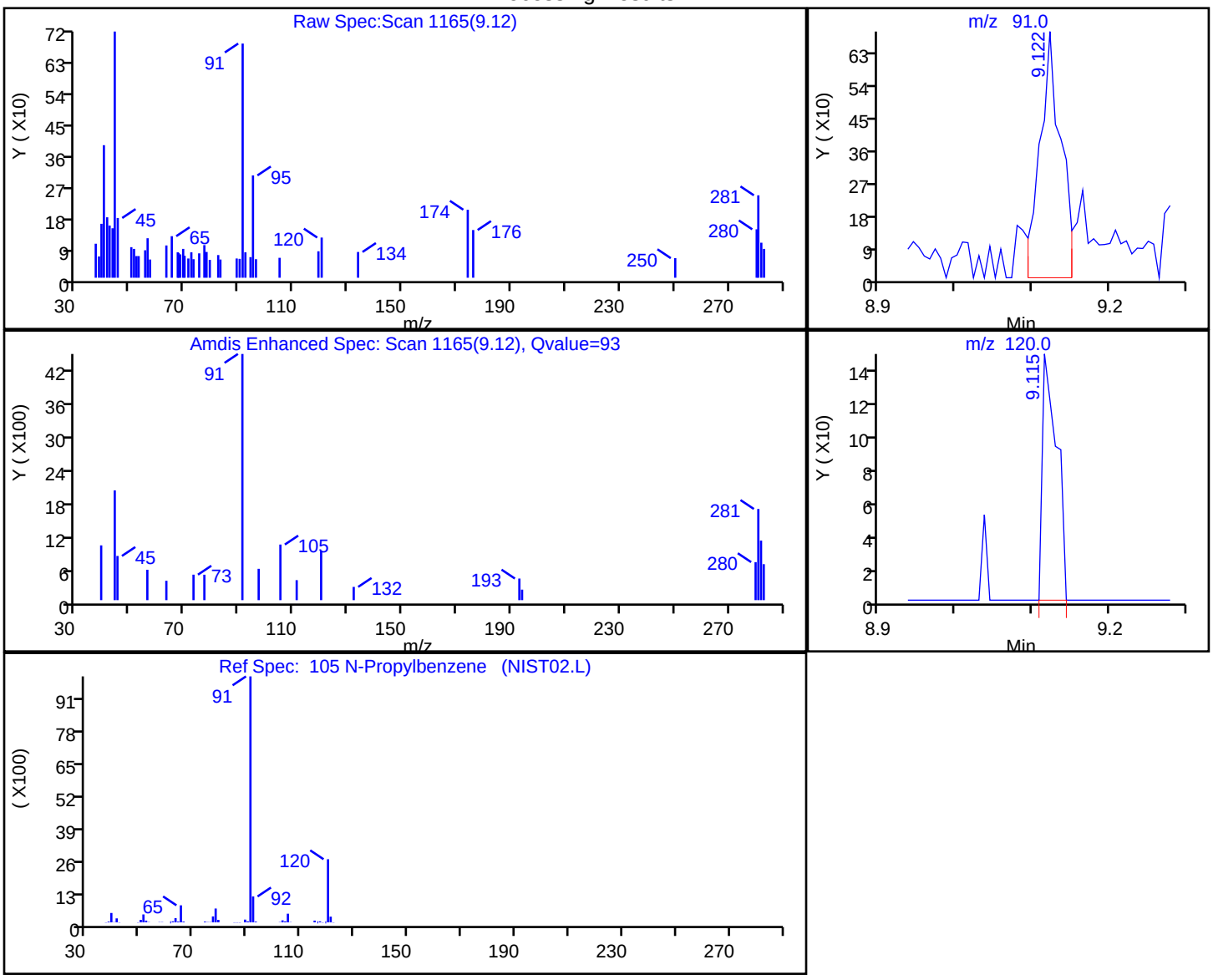
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

105 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
9.12	91.00	1309	0.060301
9.12	120.00	189	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

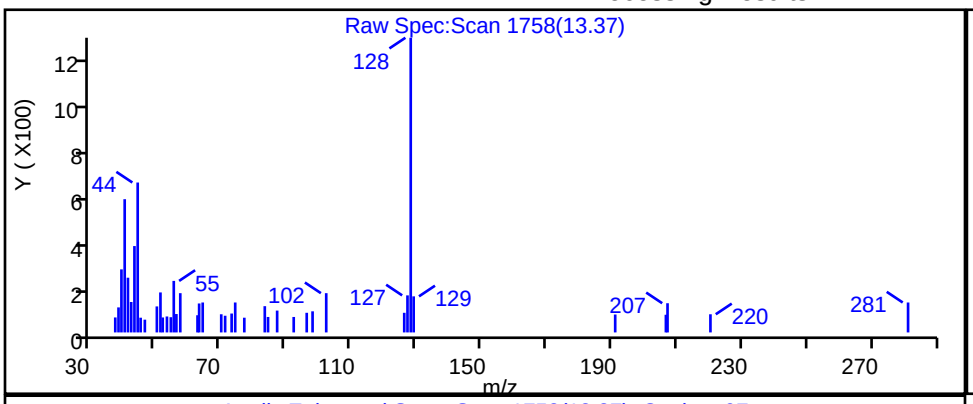
User Disabled Compound Report

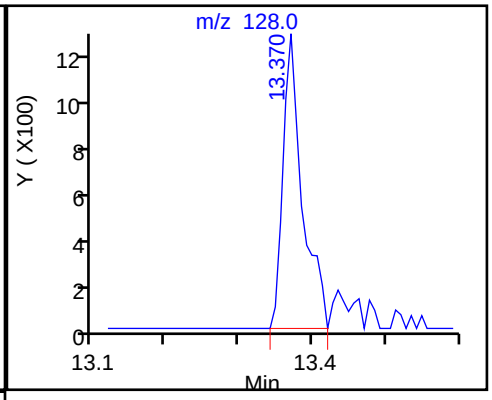
TestAmerica Edison

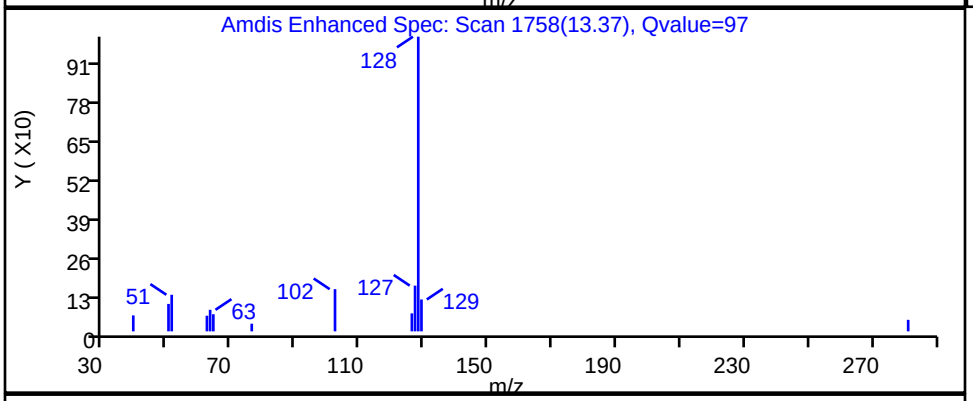
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D				
Injection Date:	20-Apr-2018 02:35:30	Instrument ID:	CVOAMS13		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

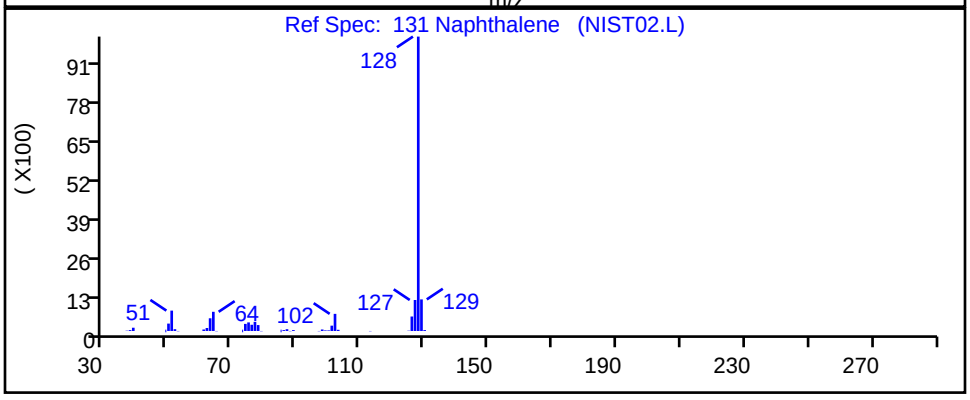
131 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
13.37	128.00	2197	0.195155

Reviewer: delpolitov, 23-Apr-2018 12:29:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

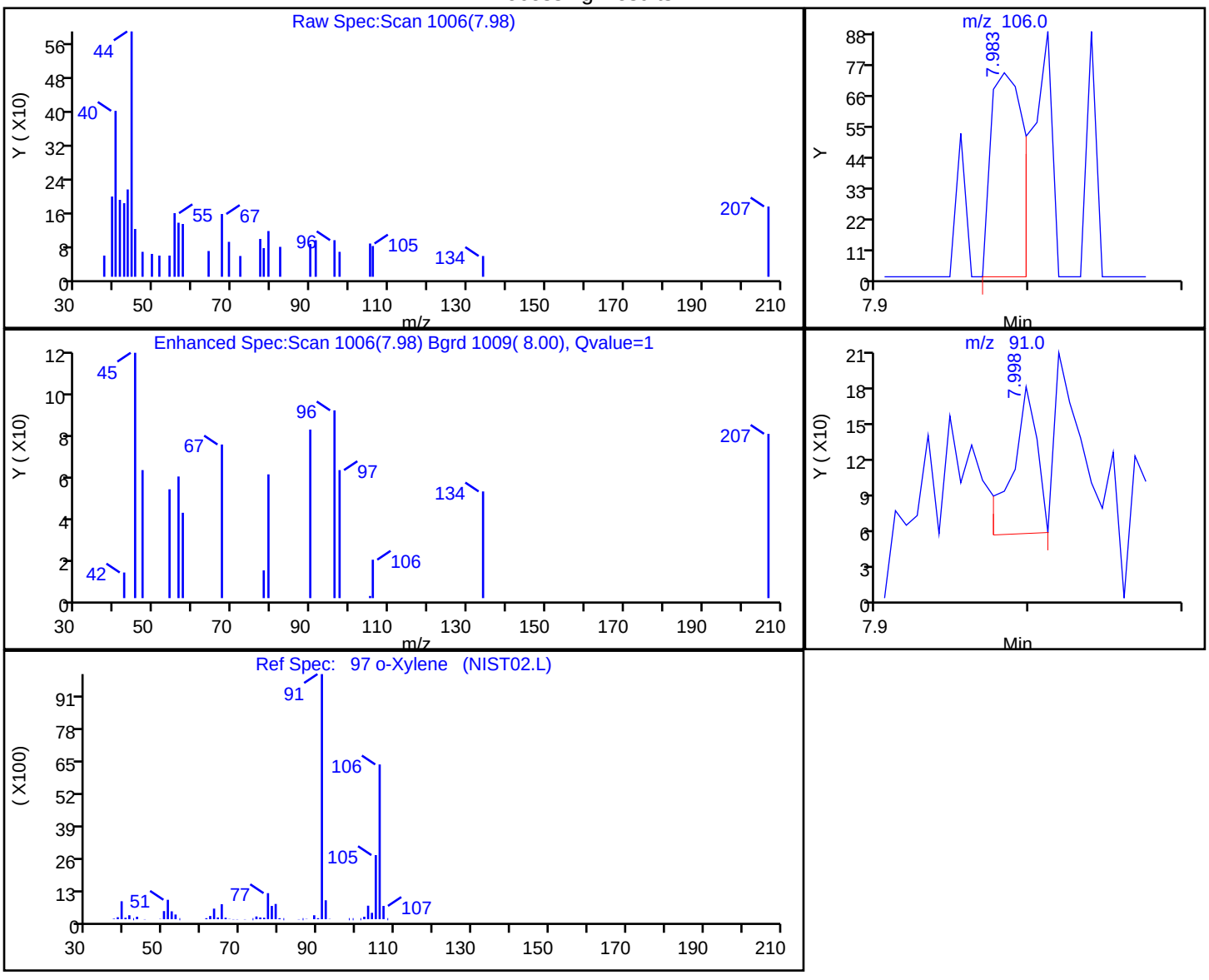
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
7.98	106.00	113	0.017028
8.00	91.00	137	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

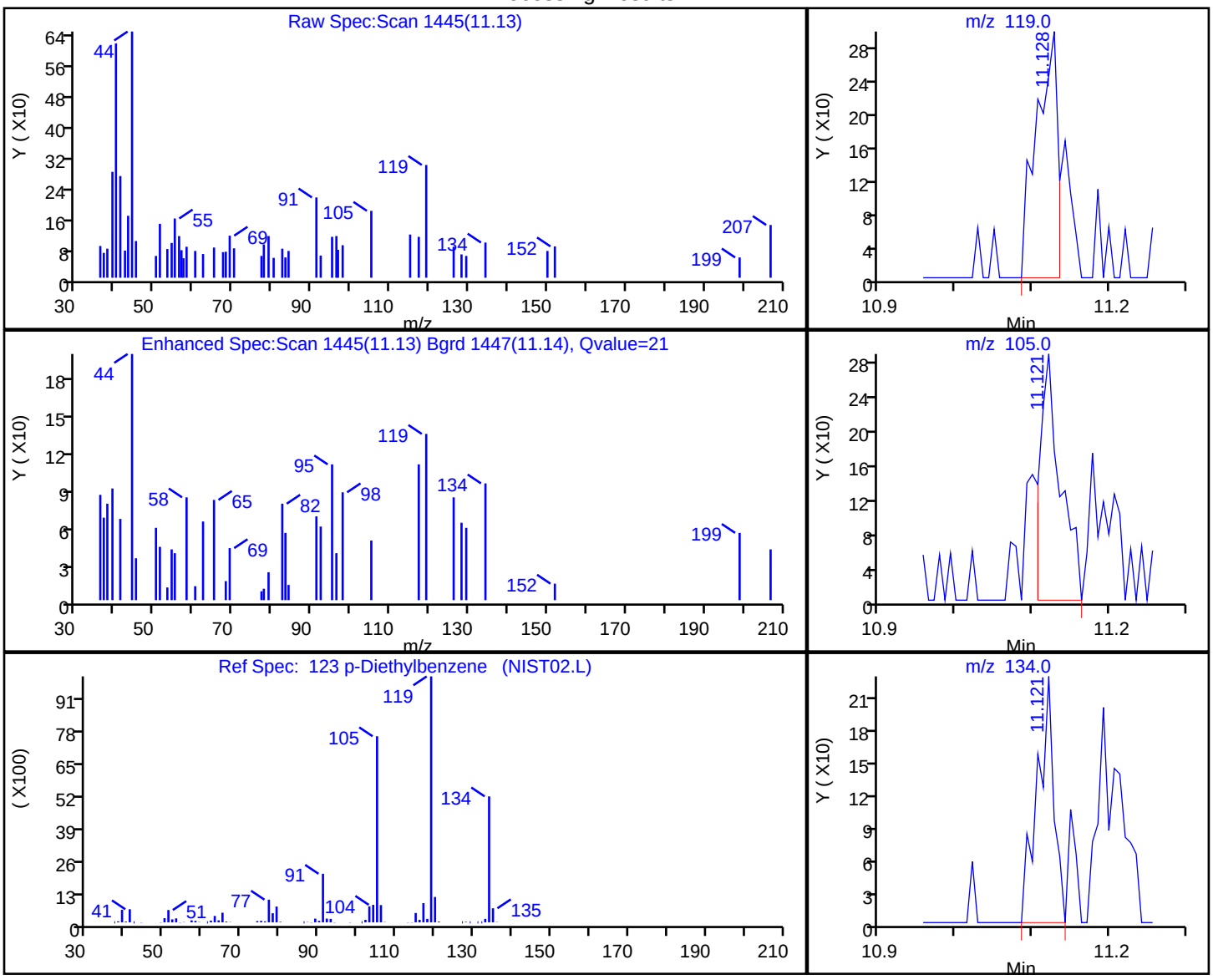
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.13	119.00	571	0.067010
11.12	105.00	533	
11.12	134.00	336	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

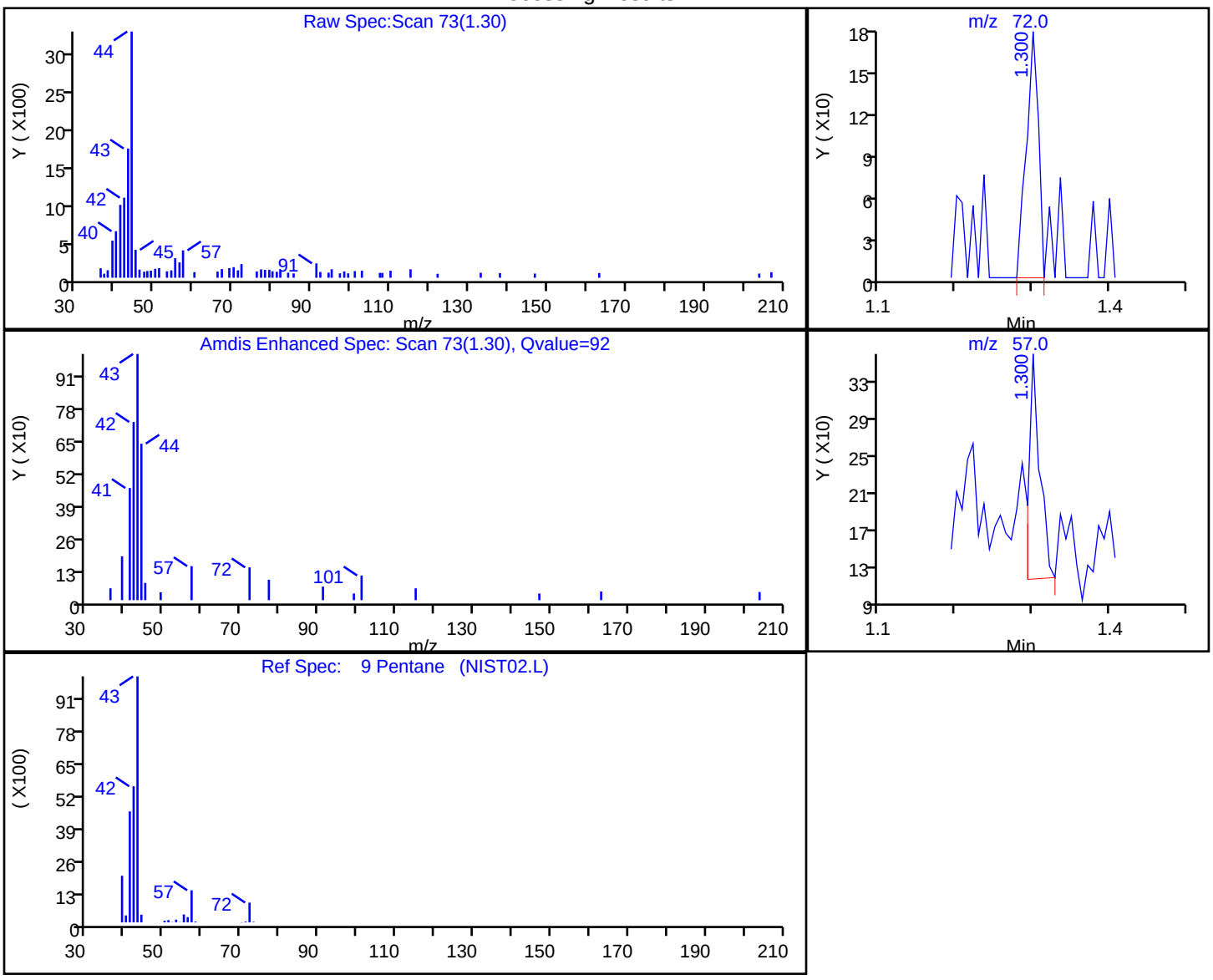
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

9 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
1.30	72.00	194	0.311230
1.30	57.00	229	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

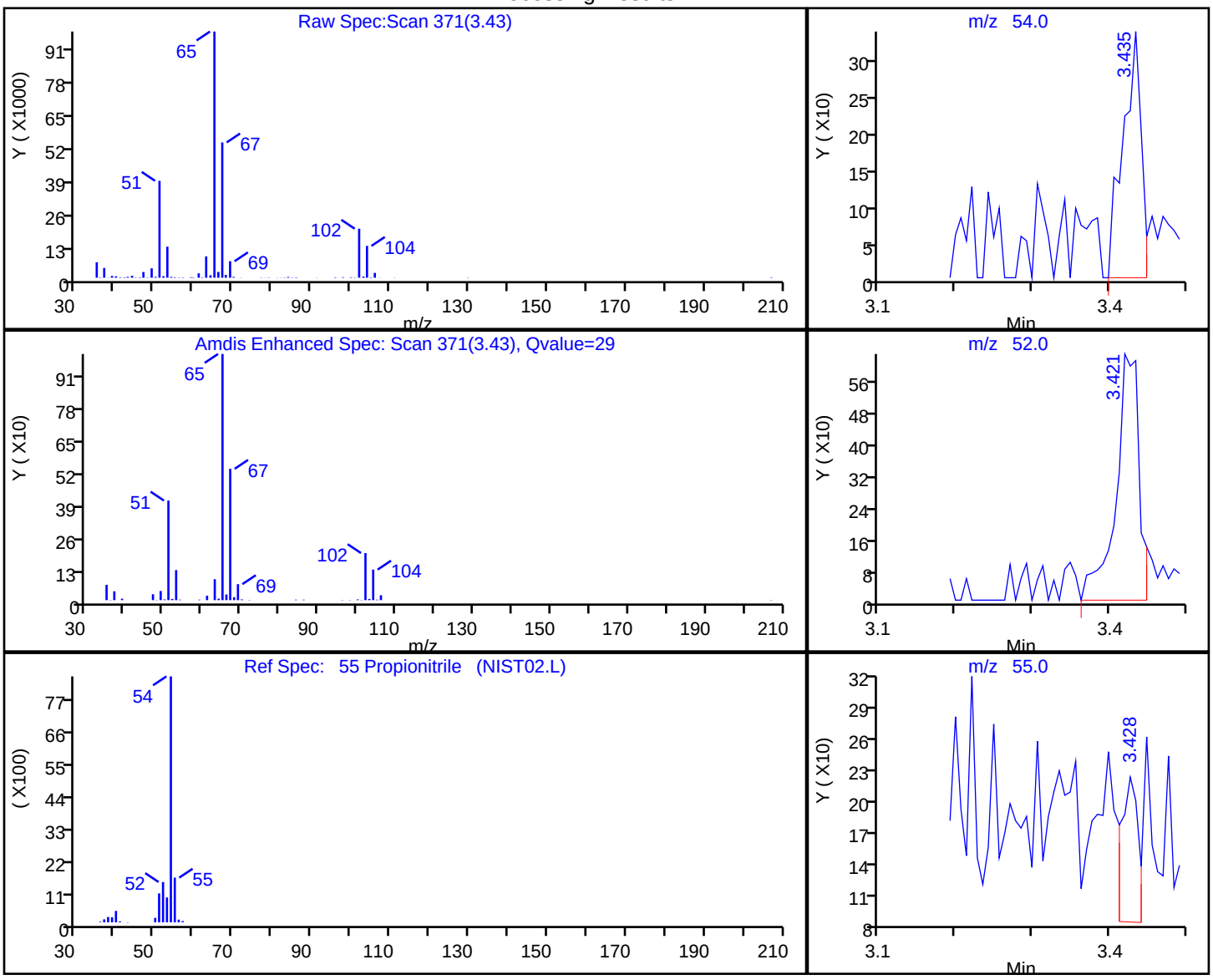
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

55 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.43	54.00	557	0.873581
3.42	52.00	1332	
3.43	55.00	213	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

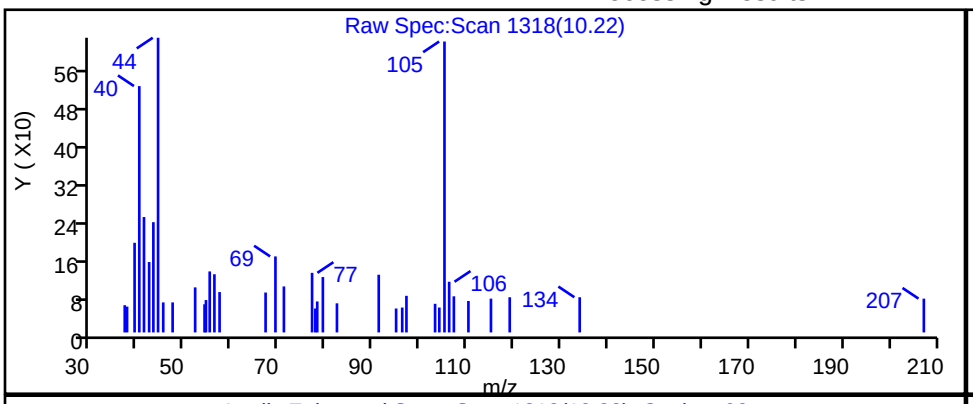
User Disabled Compound Report

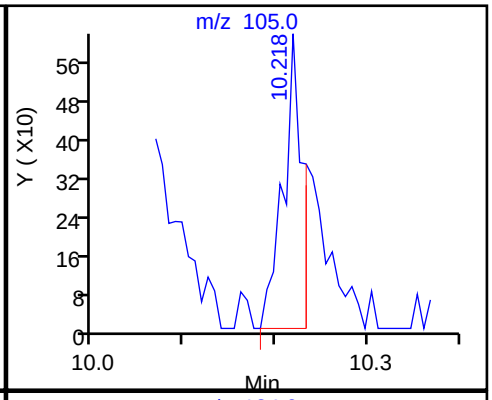
TestAmerica Edison

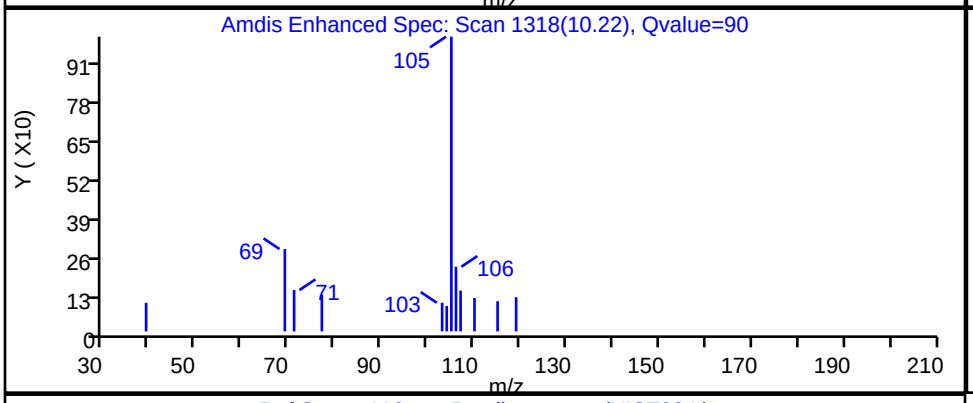
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

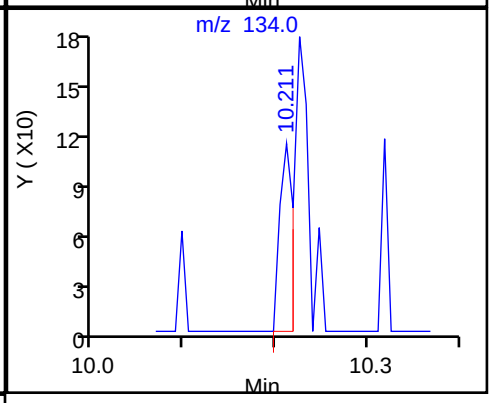
116 sec-Butylbenzene, CAS: 135-98-8

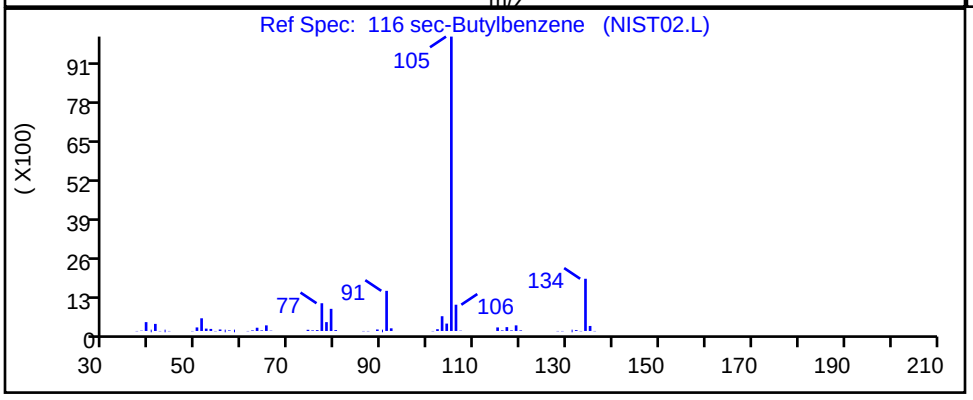
Processing Results











RT	Mass	Response	Amount
10.22	105.00	895	0.046355
10.21	134.00	114	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

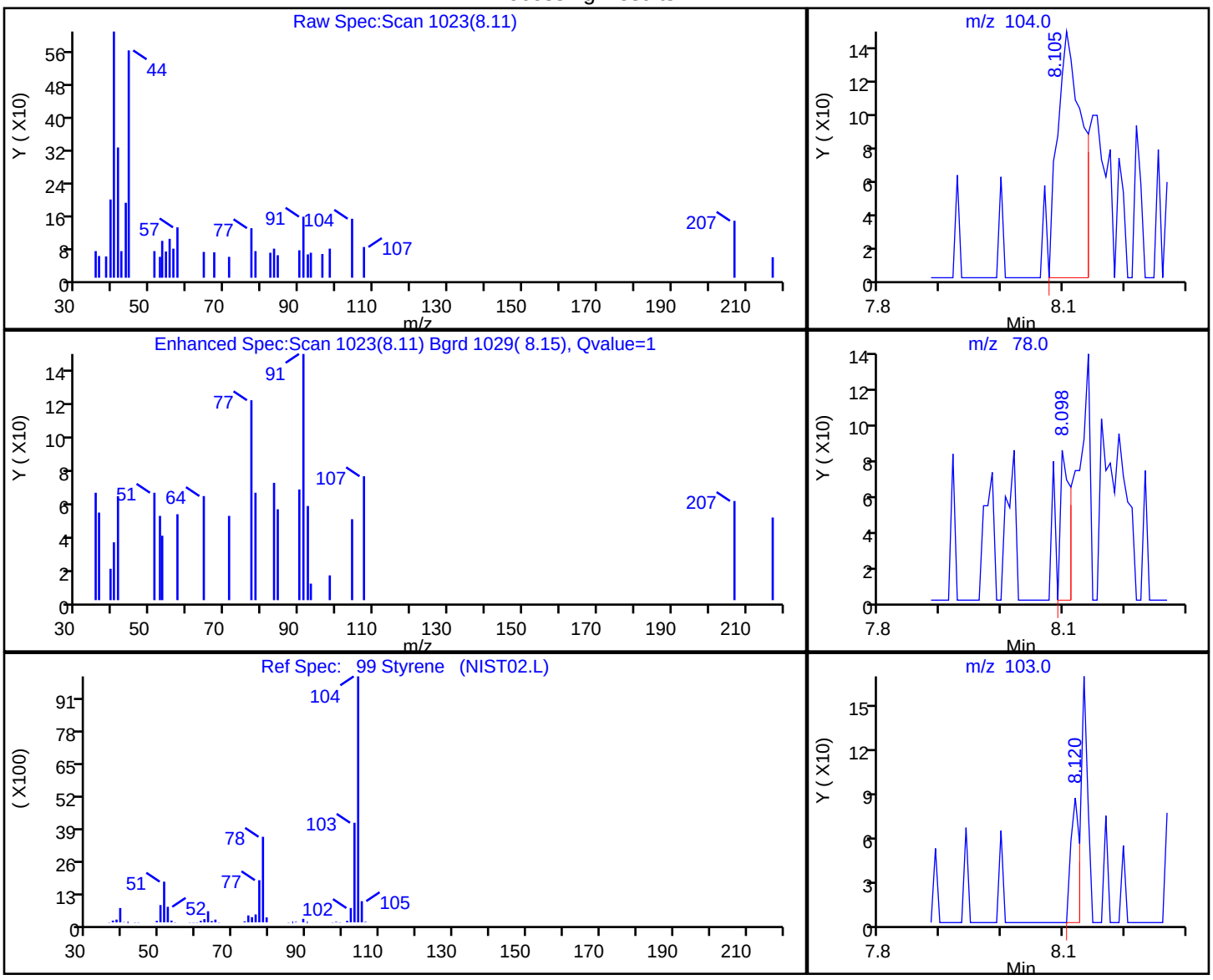
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

99 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
8.11	104.00	394	0.036219
8.10	78.00	89	
8.12	103.00	82	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

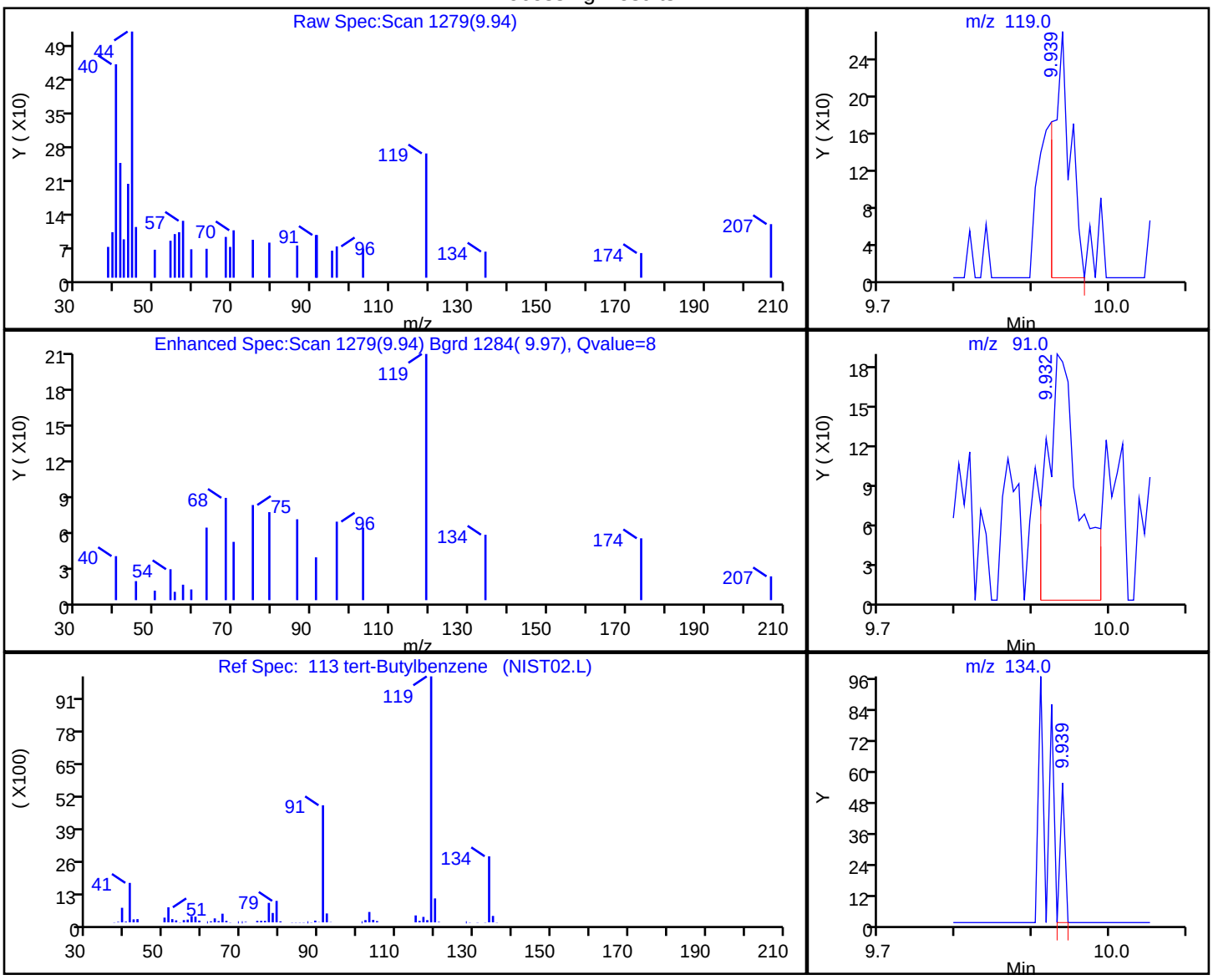
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

113 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
9.94	119.00	394	0.031782
9.93	91.00	512	
9.94	134.00	24	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

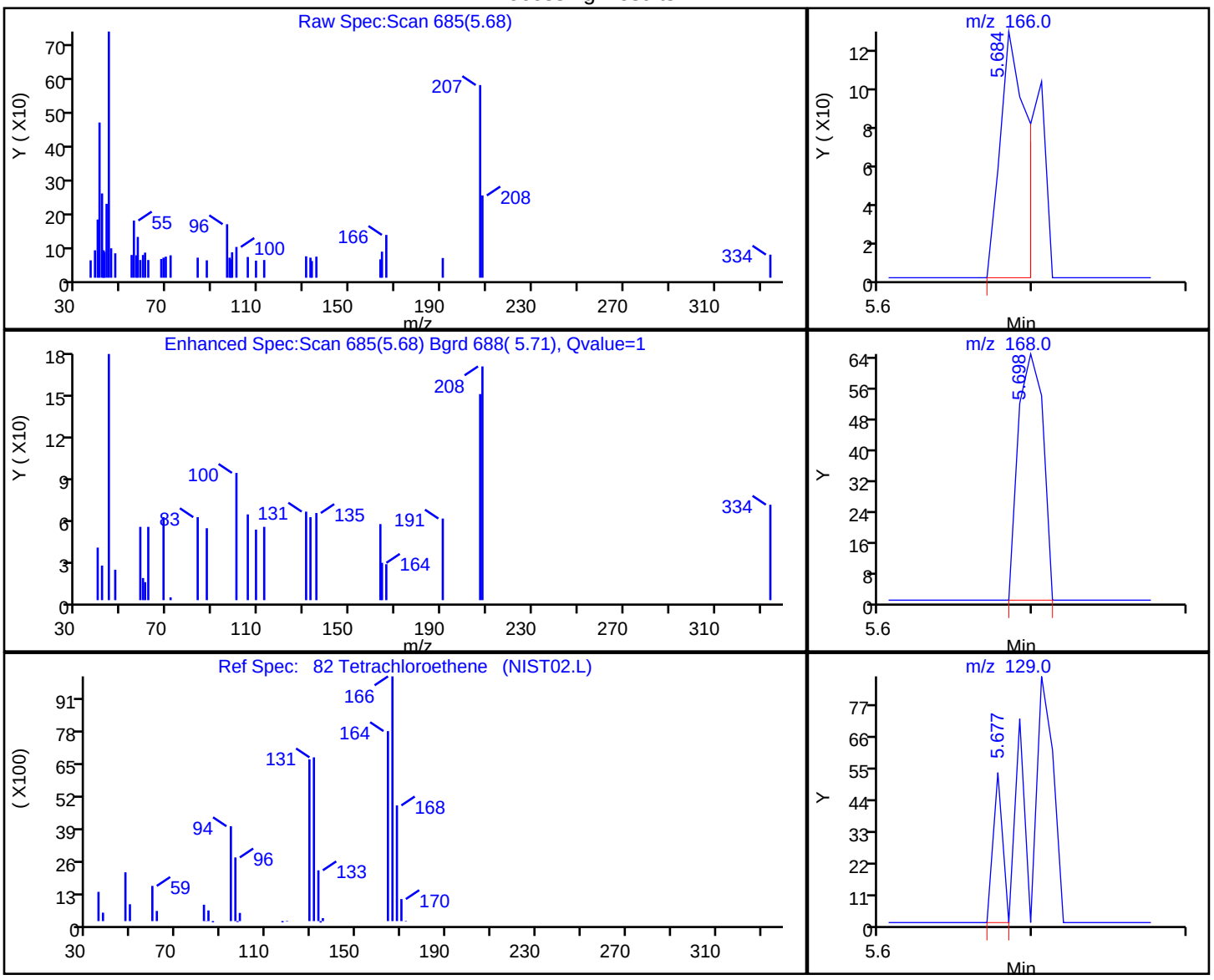
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 Tetrachloroethene, CAS: 127-18-4

Processing Results



RT	Mass	Response	Amount
5.68	166.00	154	0.043592
5.70	168.00	73	
5.68	129.00	23	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

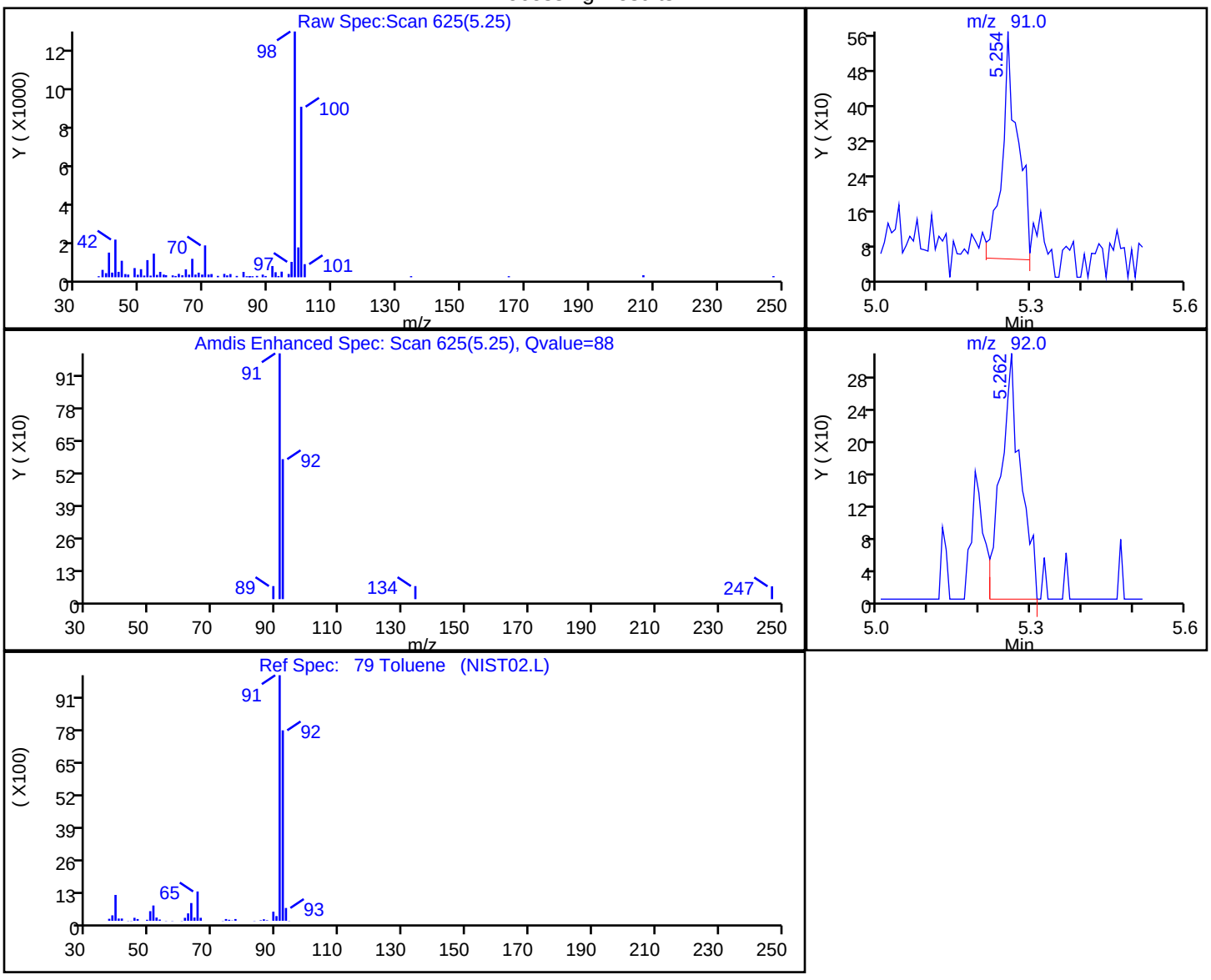
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
5.25	91.00	1117	0.066095
5.26	92.00	828	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

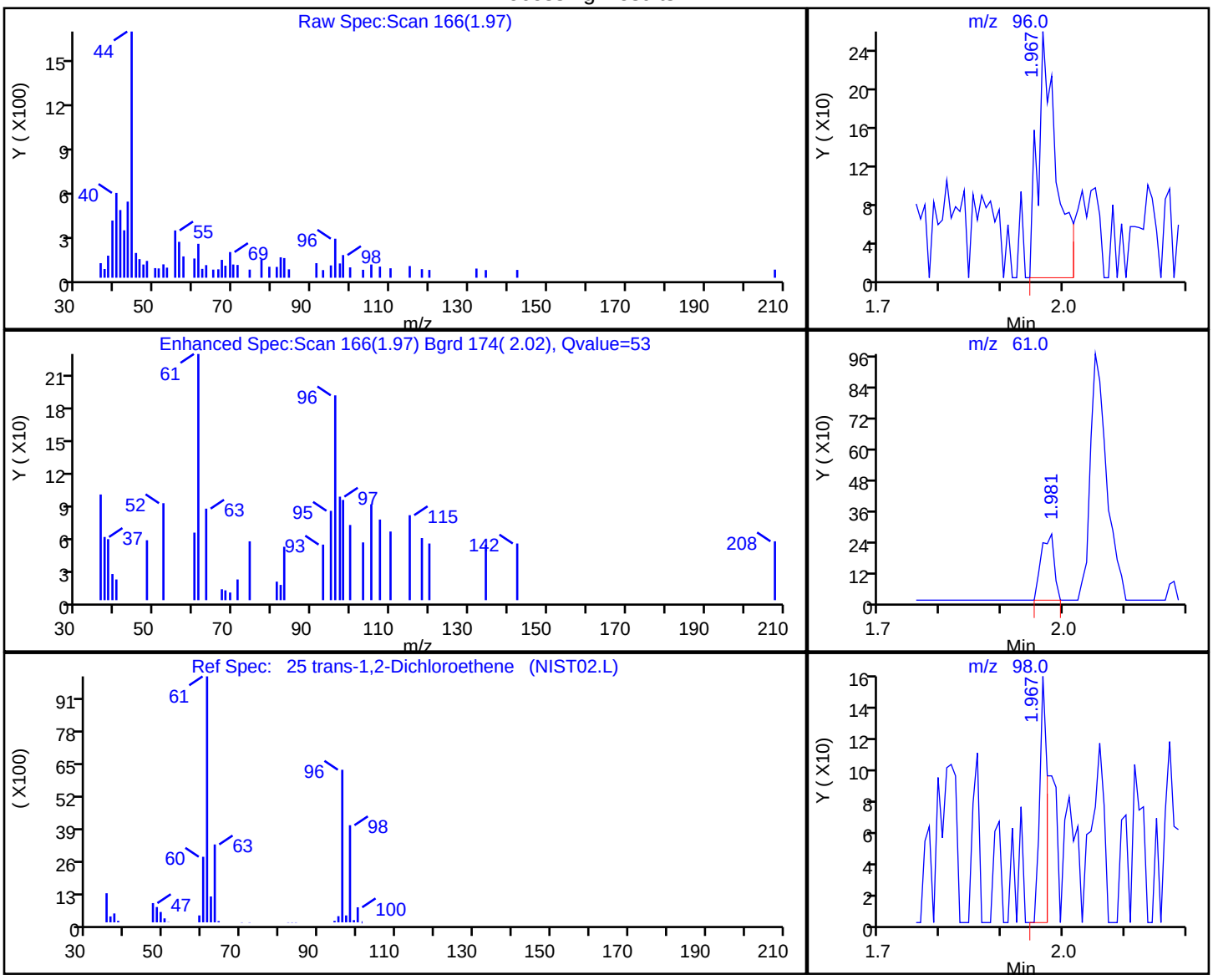
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
1.97	96.00	542	0.156558
1.98	61.00	382	
1.97	98.00	126	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

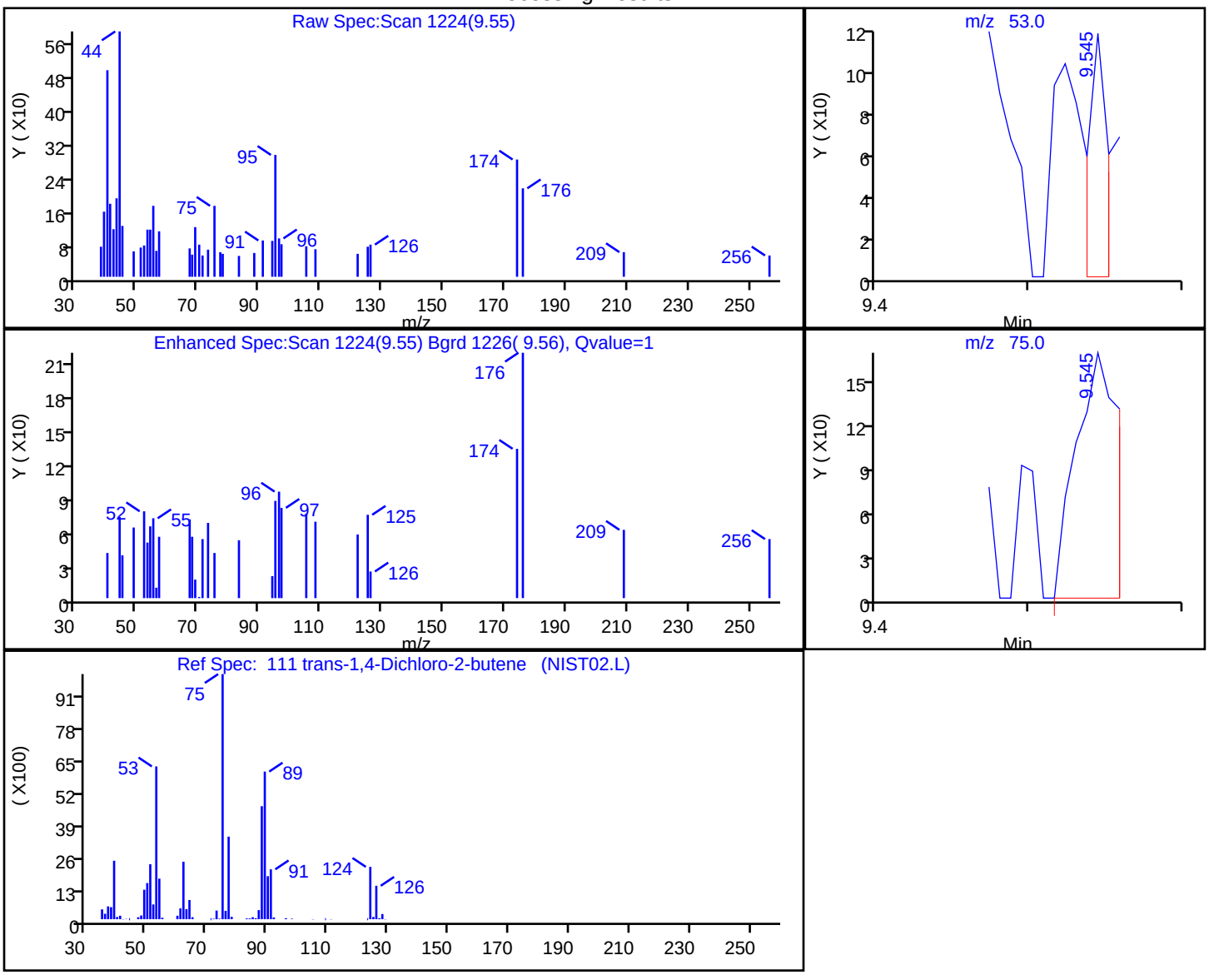
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

111 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
9.55	53.00	97	0.061396
9.55	75.00	321	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

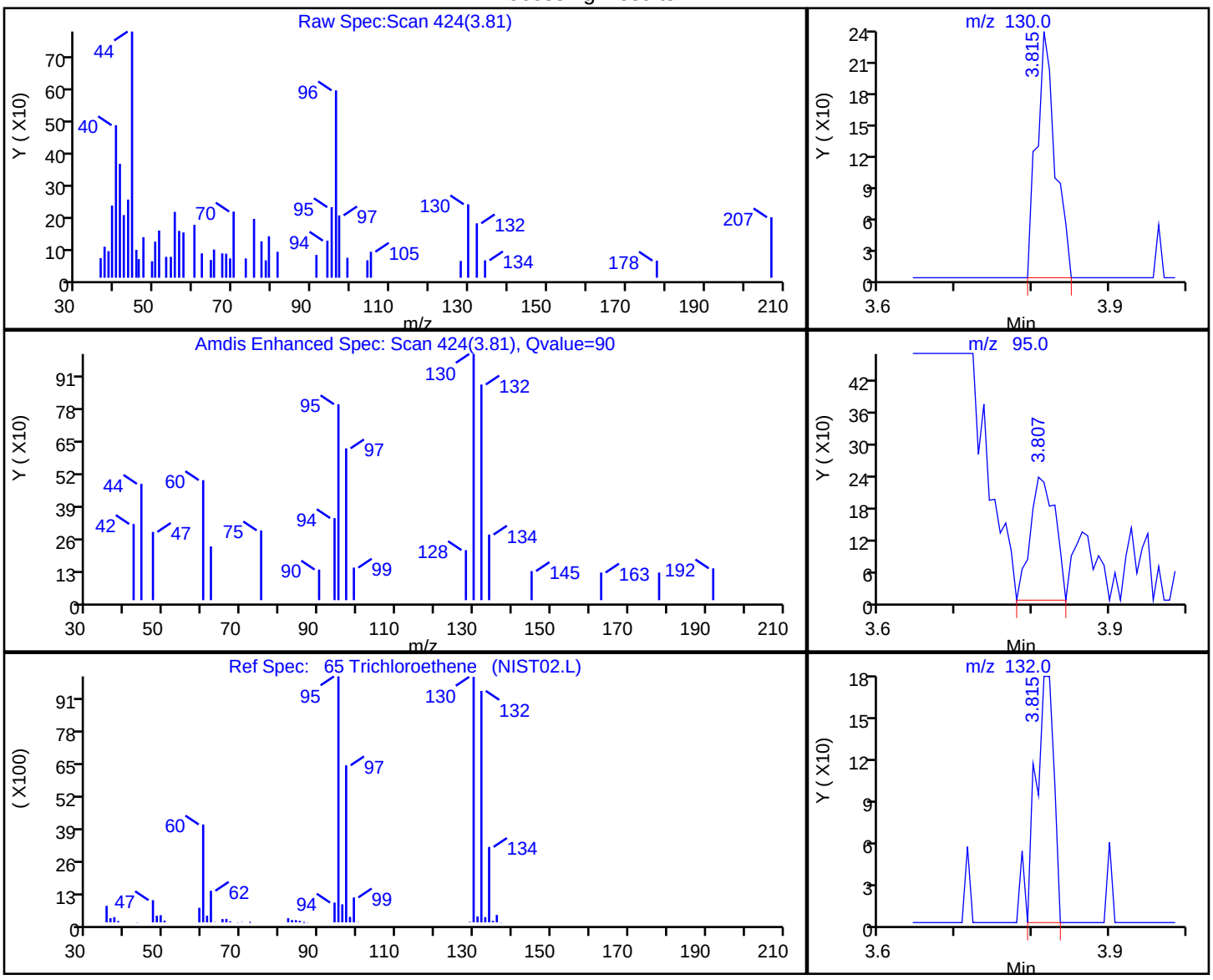
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

65 Trichloroethene, CAS: 79-01-6

Processing Results



RT	Mass	Response	Amount
3.81	130.00	389	0.107130
3.81	95.00	524	
3.81	132.00	275	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

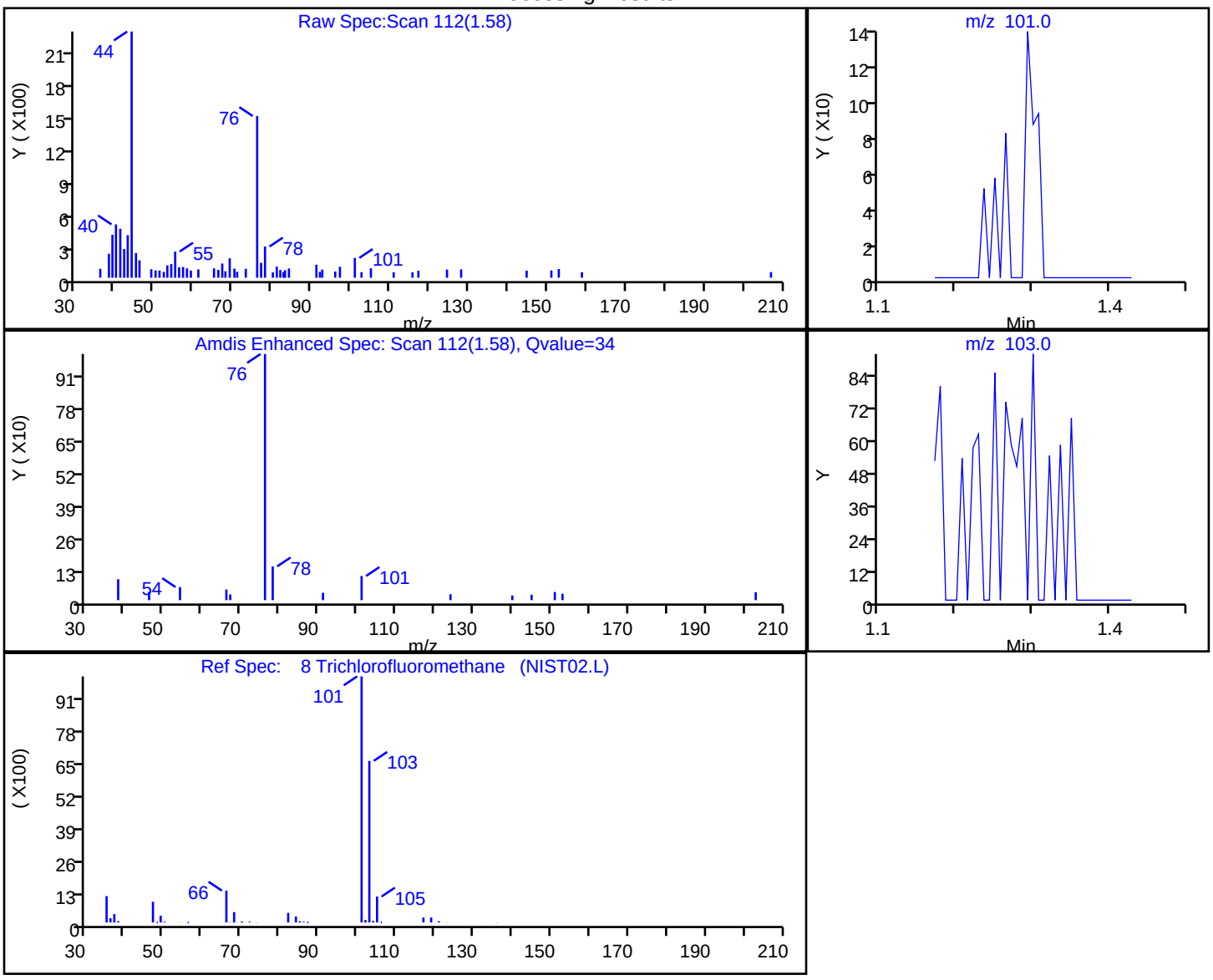
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.58	101.00	164	0.034442
1.59	103.00	168	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

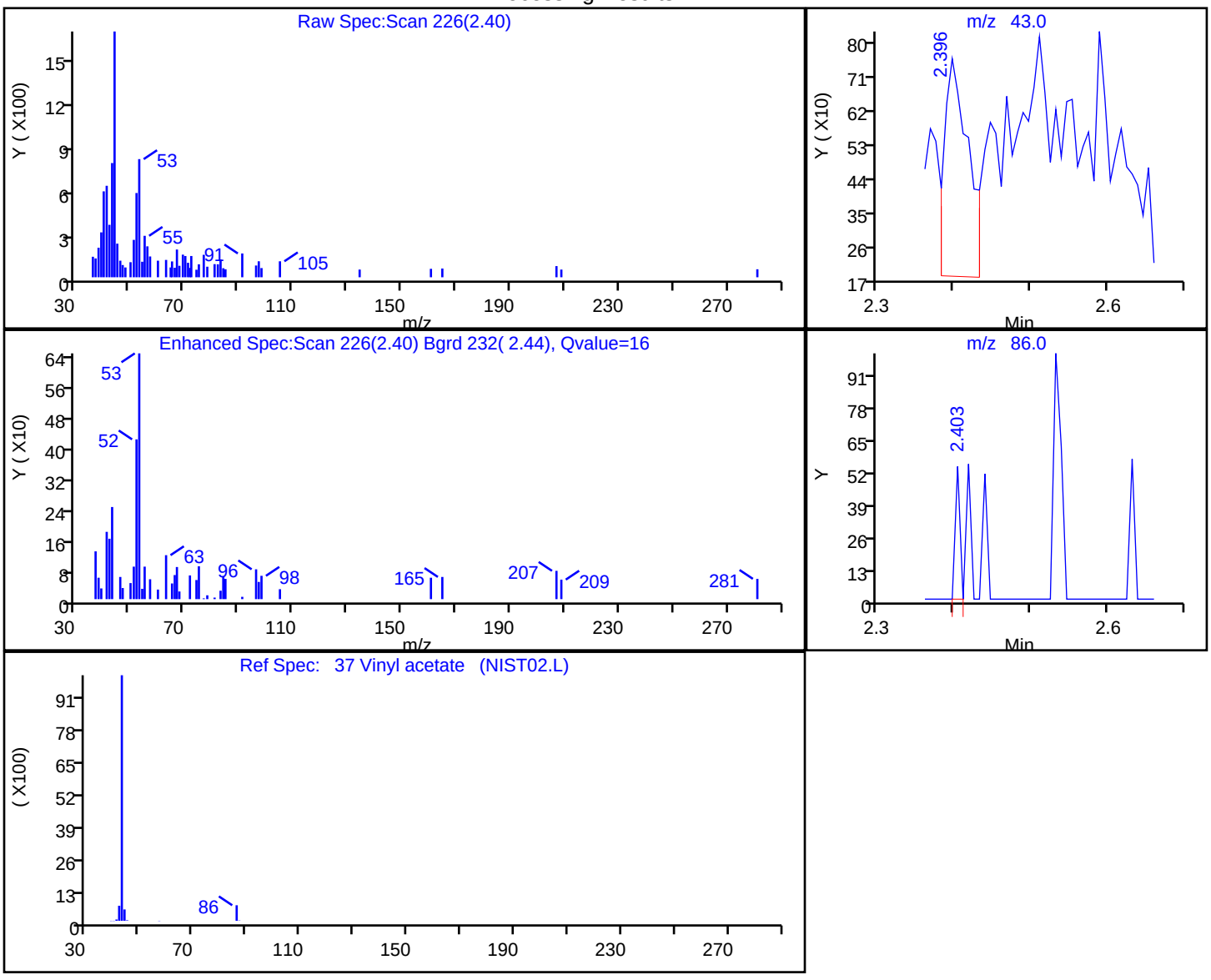
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

37 Vinyl acetate, CAS: 108-05-4

Processing Results



RT	Mass	Response	Amount
2.40	43.00	1276	0.129072
2.40	86.00	23	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

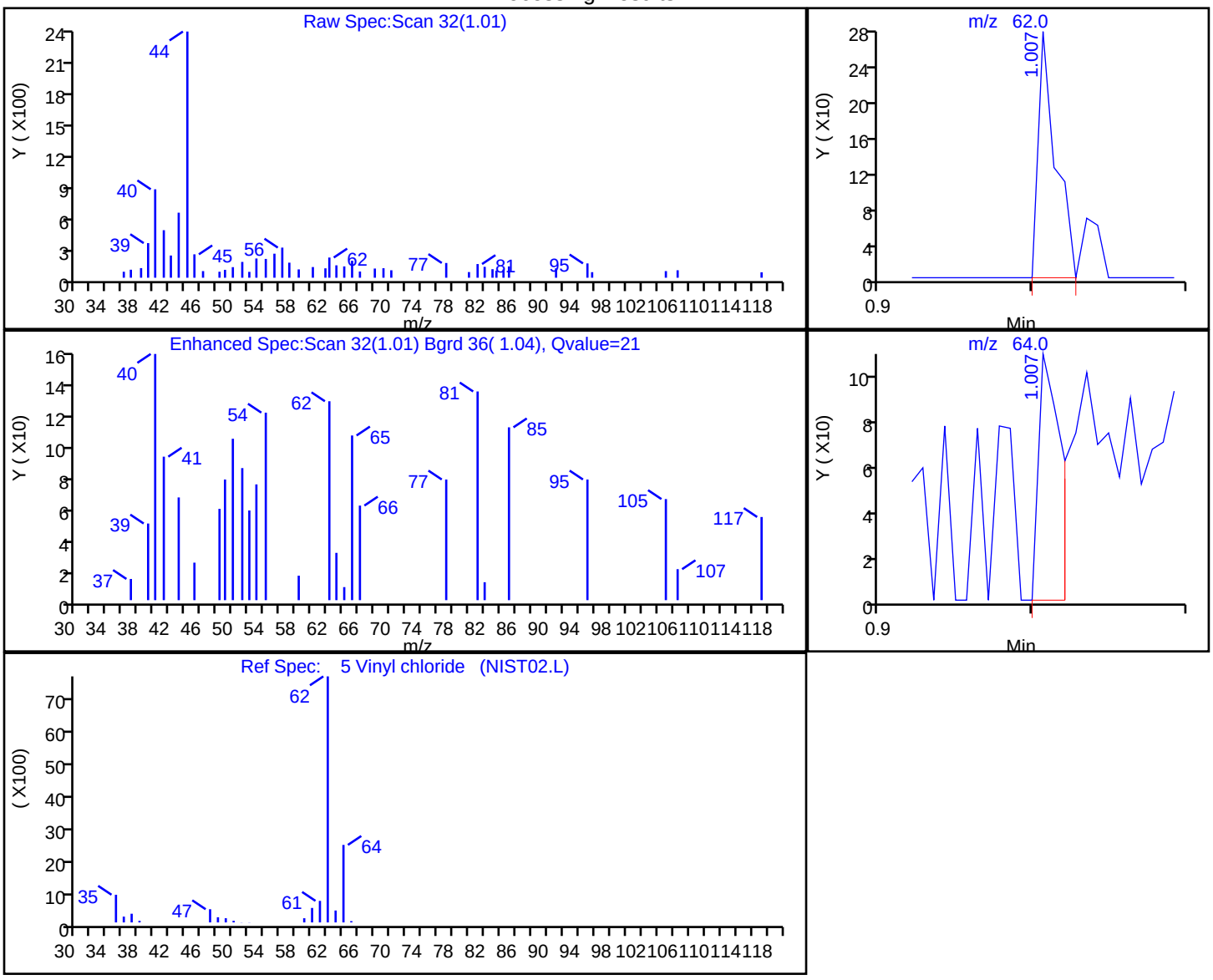
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43991.D
Injection Date: 20-Apr-2018 02:35:30 Instrument ID: CVOAMS13
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

5 Vinyl chloride, CAS: 75-01-4

Processing Results



RT	Mass	Response	Amount
1.01	62.00	219	0.044940
1.01	64.00	108	

Reviewer: delpolitov, 23-Apr-2018 12:29:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Apr-2018 03:01:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 460-0070689-004
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:03:05 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: boykink Date: 20-Apr-2018 02:49:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	85	731	0.5000	0.4789	
2 Dichlorodifluoromethane	85	0.871	0.870	0.001	50	2585	0.5000	0.5621	
4 Chloromethane	50	0.978	0.985	-0.007	97	2665	0.5000	0.6040	
5 Vinyl chloride	62	1.014	1.007	0.007	75	3008	0.5000	0.6068	
3 Butadiene	54	1.014	1.014	0.000	97	2416	0.5000	0.5524	
6 Bromomethane	94	1.171	1.164	0.007	95	1089	0.5000	0.5160	
7 Chloroethane	64	1.229	1.229	0.000	97	1621	0.5000	0.5737	M
9 Pentane	72	1.300	1.300	0.000	95	715	1.00	1.16	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	58	2870	0.5000	0.5925	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	97	3604	0.5000	0.5578	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	94	2582	0.5000	0.5360	
12 Ethyl ether	59	1.458	1.458	0.000	87	1611	0.5000	0.4964	
13 Ethanol	46	1.537	1.537	0.000	75	357	20.0	15.4	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	76	2266	0.5000	0.5195	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	90	1437	0.5000	0.4879	
16 Carbon disulfide	76	1.580	1.580	0.000	100	6589	0.5000	0.5658	
17 1,1,2-Trichloro-1,2,2-trif	101	1.580	1.580	0.000	37	1583	0.5000	0.5201	
18 Iodomethane	142	1.659	1.644	0.015	17	443	0.5000	0.1203	
19 Cyclopentene	67	1.723	1.723	0.000	96	4315	0.5000	0.5146	
20 Acrolein	56	1.744	1.744	0.000	50	797	2.00	2.00	M
21 3-Chloro-1-propene	76	1.816	1.816	0.000	90	1098	0.5000	0.5262	
22 Isopropyl alcohol	45	1.838	1.838	0.000	97	1901	5.00	6.14	
23 Methylene Chloride	84	1.881	1.880	0.001	97	1930	0.5000	0.5079	
24 Acetone	43	1.909	1.902	0.007	85	4060	2.50	3.24	M
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	97	2108	0.5000	0.6011	
26 Methyl acetate	43	1.981	1.981	0.000	48	3067	1.00	0.9899	
27 Hexane	86	2.017	2.017	0.000	72	545	0.5000	0.5843	
28 Methyl tert-butyl ether	73	2.031	2.038	-0.007	91	5557	0.5000	0.4993	
* 29 TBA-d9 (IS)	65	2.052	2.060	-0.008	0	358641	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.095	2.103	-0.008	91	2466	5.00	5.52	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	99	2729	5.00	5.04	
32 Isopropyl ether	45	2.275	2.267	0.008	97	7099	0.5000	0.4927	
33 2-Chloro-1,3-butadiene	88	2.332	2.325	0.007	91	1576	0.5000	0.4950	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	98	3484	0.5000	0.5074	
35 Acrylonitrile	53	2.375	2.375	0.000	94	7708	5.00	4.71	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	81	6188	0.5000	0.4803	
37 Vinyl acetate	43	2.518	2.511	0.007	99	8420	1.00	0.8636	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	93	2134	0.5000	0.5269	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	95	3268	0.5000	0.5562	
40 Cyclohexane	56	2.826	2.826	0.000	94	3727	0.5000	0.5216	
41 Chlorobromomethane	128	2.833	2.833	0.000	75	979	0.5000	0.5490	
42 Chloroform	83	2.898	2.898	0.000	96	3501	0.5000	0.5279	
43 Carbon tetrachloride	117	2.984	2.984	0.000	71	2444	0.5000	0.5283	
44 Ethyl acetate	70	2.998	2.998	0.000	96	733	1.00	1.40	
45 Methyl acrylate	55	3.005	2.998	0.007	43	2029	0.5000	0.5279	
46 Tetrahydrofuran	42	3.012	3.005	0.007	34	1822	1.00	1.01	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	159749	50.0	50.6	
48 1,1,1-Trichloroethane	97	3.027	3.034	-0.007	48	3065	0.5000	0.5381	
* 49 2-Butanone-d5	46	3.084	3.091	-0.007	0	429459	250.0	250.0	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	98	1490	2.50	2.84	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	49	2970	0.5000	0.5246	a
52 Isooctane	57	3.220	3.220	0.000	96	7746	0.5000	0.5524	
53 n-Heptane	57	3.320	3.313	0.007	63	1940	0.5000	0.5060	
54 Benzene	78	3.320	3.320	0.000	97	7732	0.5000	0.4987	
55 Propionitrile	54	3.349	3.342	0.007	35	3253	5.00	5.14	
56 Methacrylonitrile	67	3.363	3.363	0.000	94	7903	5.00	4.73	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	214332	50.0	49.6	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	37	5459	0.5000	0.4595	
59 1,2-Dichloroethane	62	3.492	3.485	0.007	94	3677	0.5000	0.6248	
60 Isobutyl alcohol	43	3.557	3.557	0.000	92	2200	12.5	11.3	
61 t-Amyl alcohol	59	3.643	3.628	0.015	32	1926	5.00	5.36	a
* 62 Fluorobenzene	96	3.664	3.664	0.000	98	596701	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	93	4122	0.5000	0.4814	
64 Methylcyclohexane	83	3.793	3.793	0.000	87	3446	0.5000	0.5045	
65 Trichloroethene	130	3.815	3.815	0.001	94	2132	0.5000	0.5772	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	91	5281	0.5000	0.4871	
67 Dibromomethane	93	4.194	4.187	0.007	94	1191	0.5000	0.4949	
68 n-Butanol	56	4.216	4.194	0.022	37	1212	12.5	10.4	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	85	2084	0.5000	0.4975	
70 Ethyl acrylate	55	4.373	4.359	0.014	82	2420	0.5000	0.4537	
71 Dichlorobromomethane	83	4.366	4.359	0.007	95	2362	0.5000	0.4634	
* 72 1,4-Dioxane-d8	96	4.552	4.545	0.007	0	37947	1000.0	1000.0	M
73 Methyl methacrylate	100	4.552	4.552	0.000	47	816	1.00	0.7995	
74 1,4-Dioxane	88	4.574	4.574	0.000	27	1145	25.0	23.8	
75 n-Propyl acetate	43	4.724	4.710	0.014	97	2424	0.5000	0.3957	
76 2-Chloroethyl vinyl ether	63	4.982	4.975	0.007	95	1174	0.5000	0.4185	
77 cis-1,3-Dichloropropene	75	5.011	5.004	0.007	97	2839	0.5000	0.4546	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	670334	50.0	50.0	
79 Toluene	91	5.262	5.261	0.001	89	9465	0.5000	0.5574	
80 Epichlorohydrin	57	5.290	5.290	0.000	96	3626	10.0	8.61	
81 2-Nitropropane	41	5.519	5.519	0.000	92	1528	1.00	1.28	
82 Tetrachloroethene	166	5.691	5.691	0.000	88	1704	0.5000	0.4777	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.734	5.727	0.007	96	9943	2.50	2.30	
84 trans-1,3-Dichloropropene	75	5.777	5.763	0.014	92	2667	0.5000	0.4635	
85 1,1,2-Trichloroethane	83	5.935	5.935	0.000	90	1446	0.5000	0.5000	
86 Ethyl methacrylate	69	6.035	6.021	0.014	91	2011	0.5000	0.3866	
87 Chlorodibromomethane	129	6.143	6.135	0.008	95	1527	0.5000	0.4361	
88 1,3-Dichloropropane	76	6.257	6.250	0.007	96	2820	0.5000	0.4732	
89 Ethylene Dibromide	107	6.393	6.386	0.007	97	1530	0.5000	0.4627	
90 n-Butyl acetate	43	6.744	6.730	0.014	97	3228	0.5000	0.4701	
91 2-Hexanone	43	6.809	6.794	0.015	97	6999	2.50	2.30	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	489062	50.0	50.0	
93 Chlorobenzene	112	7.095	7.102	-0.007	94	5672	0.5000	0.5556	
94 Ethylbenzene	106	7.196	7.181	0.015	97	2804	0.5000	0.4973	
95 1,1,1,2-Tetrachloroethane	131	7.217	7.210	0.007	84	1602	0.5000	0.4776	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	3423	0.5000	0.5018	
97 o-Xylene	106	7.998	7.991	0.007	94	3404	0.5000	0.5105	
98 Bromoform	173	8.069	8.055	0.014	92	884	0.5000	0.4005	
99 Styrene	104	8.105	8.077	0.029	94	5225	0.5000	0.4676	
100 n-Butyl acrylate	73	8.435	8.399	0.036	95	1042	0.5000	0.3578	
101 Isopropylbenzene	105	8.478	8.478	0.000	94	9340	0.5000	0.5196	
102 Amyl acetate (mixed isomer	43	8.836	8.814	0.022	37	3891	0.5000	0.4758	a
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	191810	50.0	50.2	
104 Bromobenzene	156	8.965	8.958	0.007	95	2163	0.5000	0.5068	
105 N-Propylbenzene	91	9.115	9.108	0.007	99	11026	0.5000	0.5005	
106 1,1,2,2-Tetrachloroethane	83	9.259	9.258	0.000	59	2399	0.5000	0.5199	
107 2-Chlorotoluene	91	9.294	9.287	0.007	95	7742	0.5000	0.5164	
108 4-Ethyltoluene	105	9.309	9.301	0.008	92	8989	0.5000	0.5022	
109 1,2,3-Trichloropropane	110	9.395	9.395	0.001	90	615	0.5000	0.4677	
110 1,3,5-Trimethylbenzene	105	9.466	9.459	0.007	93	8099	0.5000	0.5299	
111 trans-1,4-Dichloro-2-buten	53	9.581	9.516	0.065	54	943	0.5000	0.5780	
112 4-Chlorotoluene	91	9.567	9.552	0.014	97	6862	0.5000	0.4962	
113 tert-Butylbenzene	119	9.925	9.925	0.000	89	6010	0.5000	0.4777	
114 Butyl Methacrylate	87	10.061	10.054	0.007	60	2167	0.5000	0.4037	
115 1,2,4-Trimethylbenzene	105	10.068	10.054	0.014	95	7249	0.5000	0.4770	
116 sec-Butylbenzene	105	10.226	10.218	0.008	98	10045	0.5000	0.5127	
117 1,3-Dichlorobenzene	146	10.498	10.483	0.015	75	4185	0.5000	0.5175	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	7909	0.5000	0.4865	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	261984	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.641	10.634	0.007	36	5234	0.5000	0.5978	a
138 1,2,3-Trimethylbenzene	105	10.756	10.741	0.015	98	8042	0.5000	0.5028	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	7818	0.5000	0.5056	
122 Benzyl chloride	126	11.114	11.092	0.022	95	864	0.5000	0.5108	
123 p-Diethylbenzene	119	11.114	11.106	0.008	81	4528	0.5000	0.5237	
124 n-Butylbenzene	91	11.193	11.185	0.008	98	7698	0.5000	0.4949	
125 1,2-Dichlorobenzene	146	11.307	11.293	0.014	92	3910	0.5000	0.5067	
126 1,2,4,5-Tetramethylbenzene	119	12.203	12.202	0.000	97	6876	0.5000	0.4910	
127 1,2-Dibromo-3-Chloropropan	157	12.353	12.346	0.007	75	397	0.5000	0.4754	
128 1,3,5-Trichlorobenzene	180	12.396	12.389	0.007	85	2976	0.5000	0.5128	a
129 1,2,4-Trichlorobenzene	180	13.076	13.062	0.014	91	2649	0.5000	0.5170	
130 Hexachlorobutadiene	225	13.069	13.076	-0.007	85	1294	0.5000	0.5148	
131 Naphthalene	128	13.363	13.356	0.007	98	5999	0.5000	0.5187	
132 1,2,3-Trichlorobenzene	180	13.535	13.528	0.007	94	2481	0.5000	0.5356	
S 133 1,2-Dichloroethene, Total	100				0		1.00	1.13	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		1.00	0.9181	
S 135 Xylenes, Total	100				0		1.00	1.01	
S 137 Total BTEX	1				0		2.50	2.57	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

MIX 2 Hi_00069	Amount Added:	0.50	Units: uL	
Ethanol mix_00014	Amount Added:	0.50	Units: uL	
ACROLEIN W_00075	Amount Added:	2.00	Units: uL	
14DIOXINTER_00083	Amount Added:	15.00	Units: uL	
GAS Hi_00250	Amount Added:	0.50	Units: uL	
MIX I Hi_00093	Amount Added:	0.50	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-Apr-2018 14:03:13 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D

Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13 Operator ID:

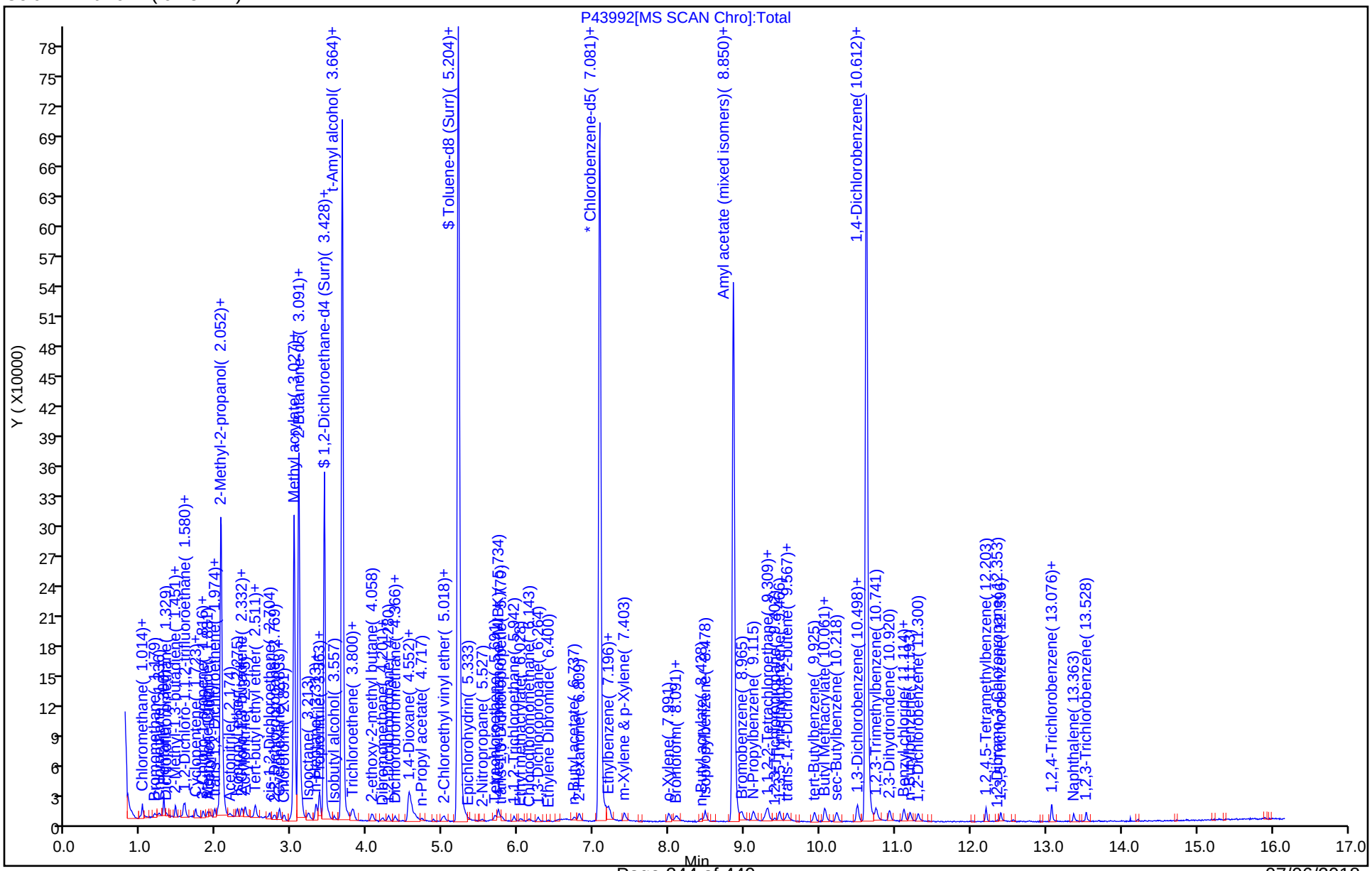
Lims ID: STD05 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

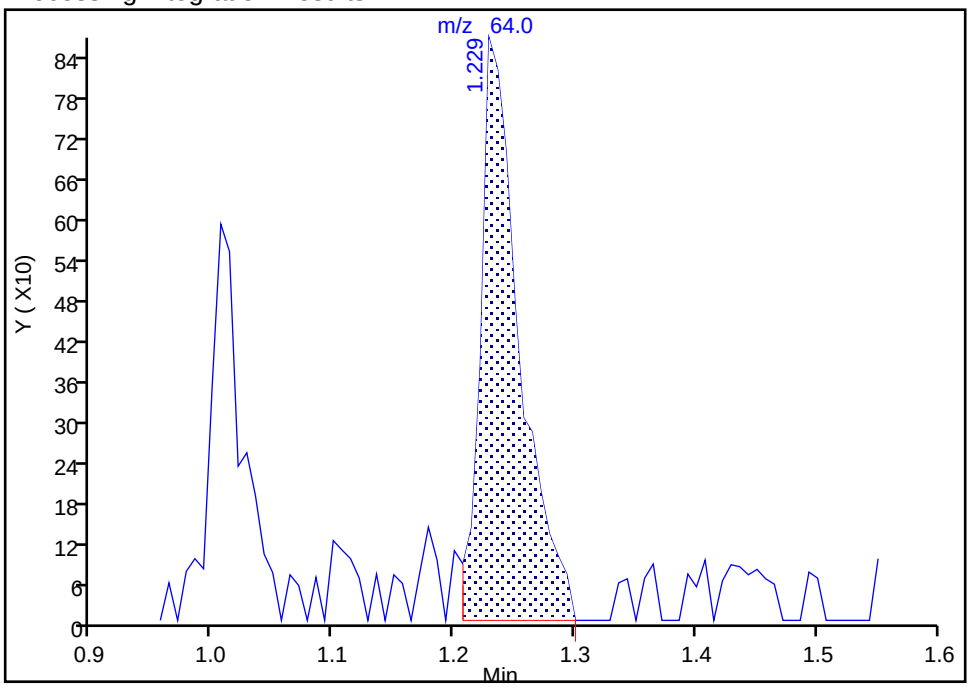
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Signal: 1

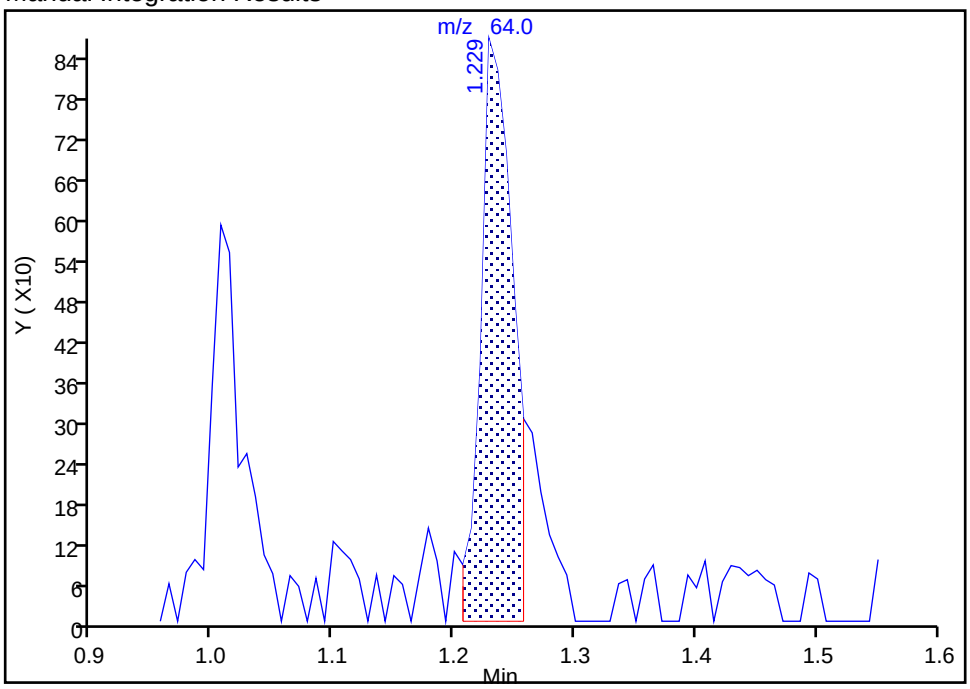
Processing Integration Results

RT: 1.23
Area: 1951
Amount: 0.650447
Amount Units: ug/l



Manual Integration Results

RT: 1.23
Area: 1621
Amount: 0.573711
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 13:03:08
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

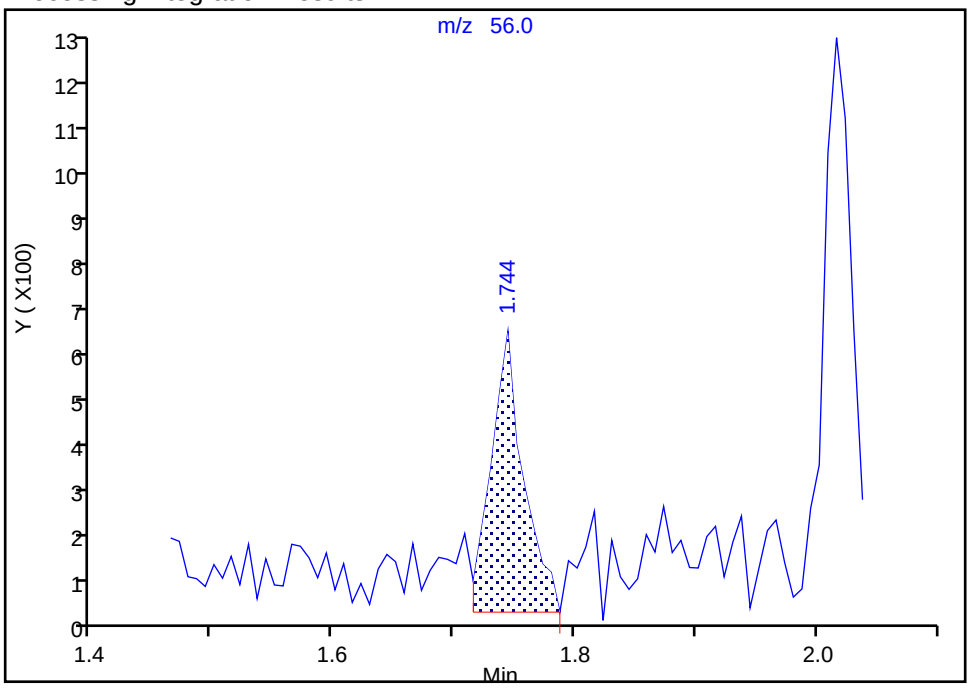
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

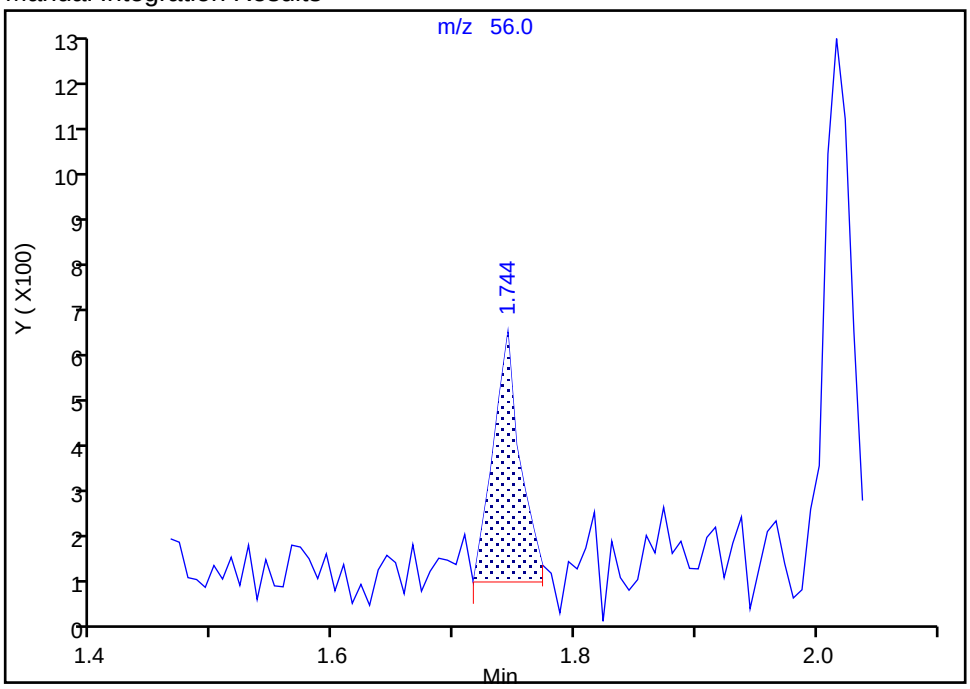
Processing Integration Results

RT: 1.74
Area: 1080
Amount: 2.515903
Amount Units: ug/l



Manual Integration Results

RT: 1.74
Area: 797
Amount: 1.998682
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 13:06:41
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

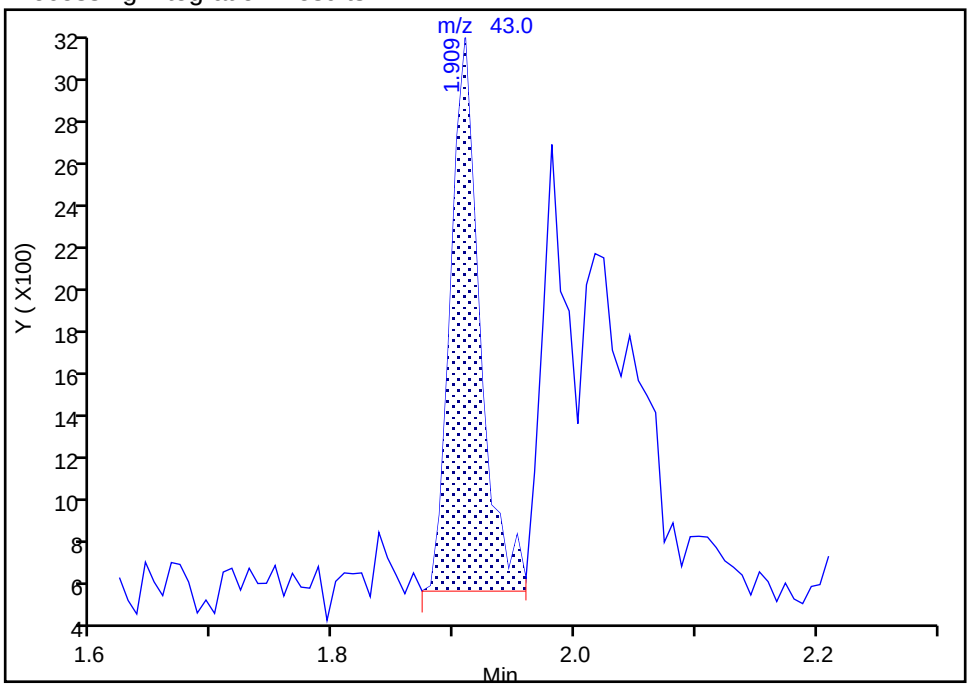
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Acetone, CAS: 67-64-1

Signal: 1

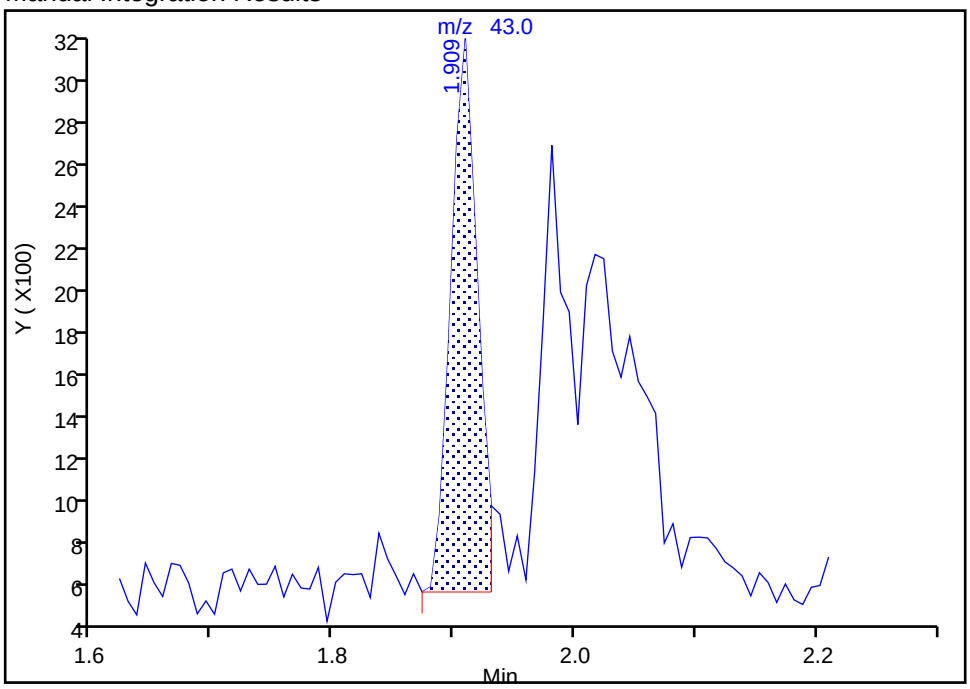
Processing Integration Results

RT: 1.91
Area: 4399
Amount: 3.916721
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 4060
Amount: 3.235710
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 13:06:56
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

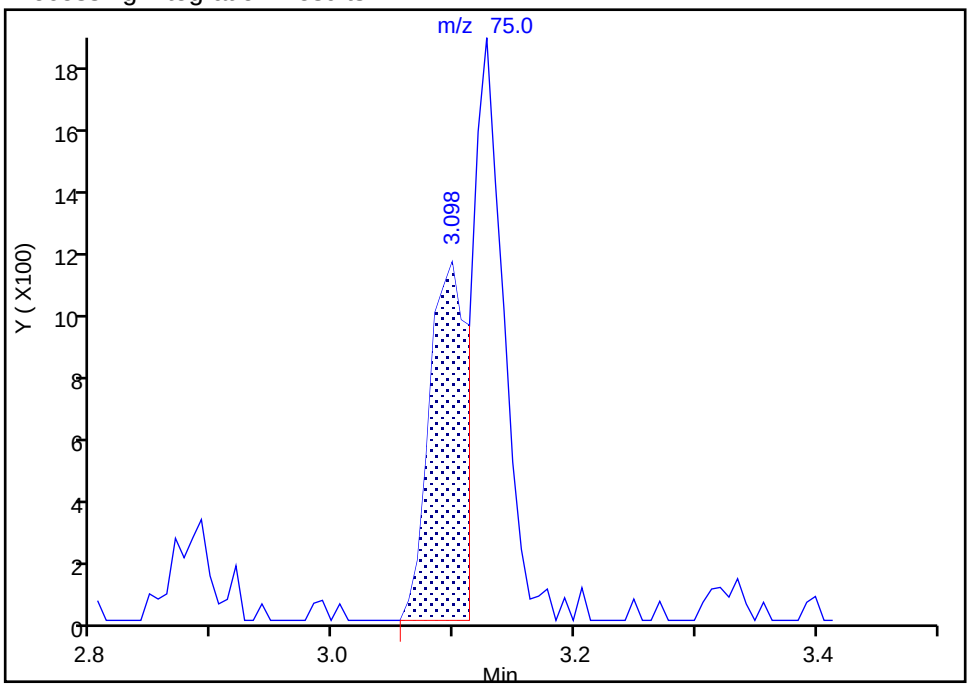
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

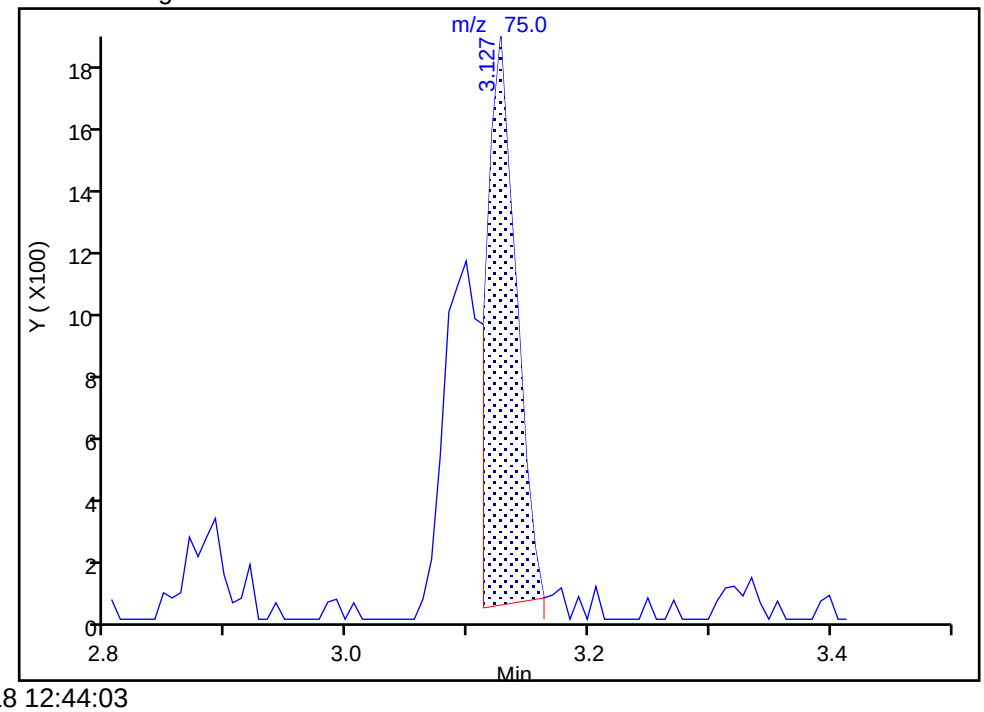
Processing Integration Results

RT: 3.10
Area: 2444
Amount: 0.445251
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 2970
Amount: 0.524639
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:44:03
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

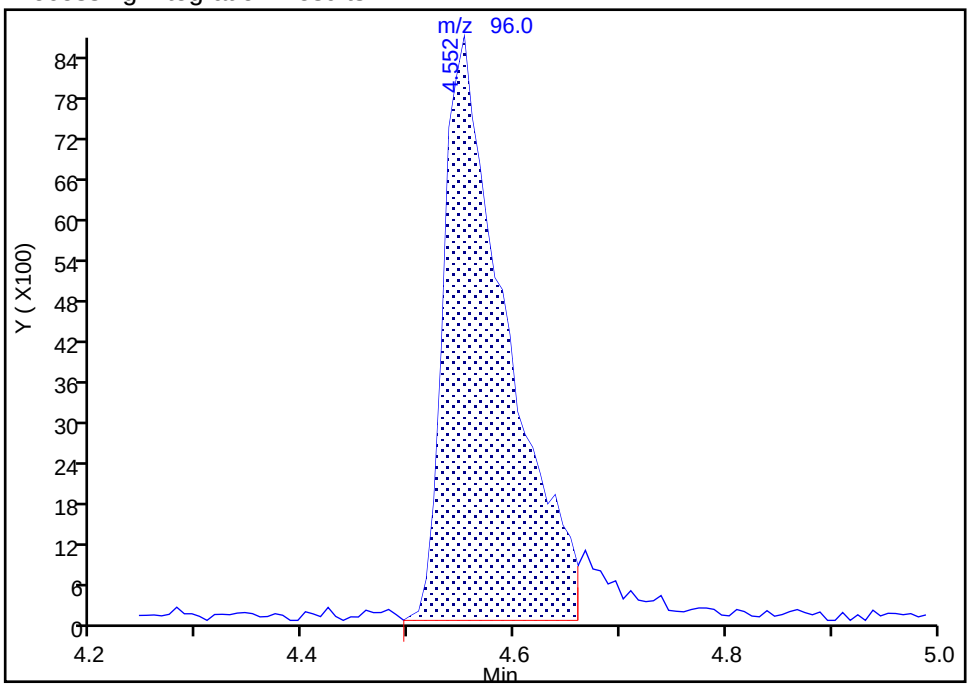
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 72 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

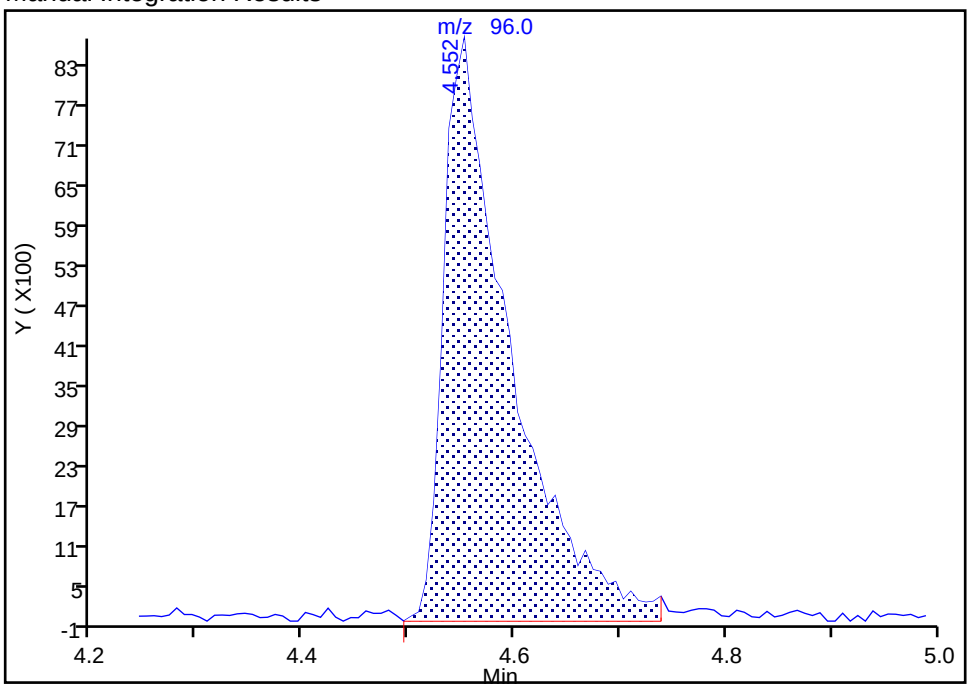
Processing Integration Results

RT: 4.55
Area: 35488
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 37947
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:45:23
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

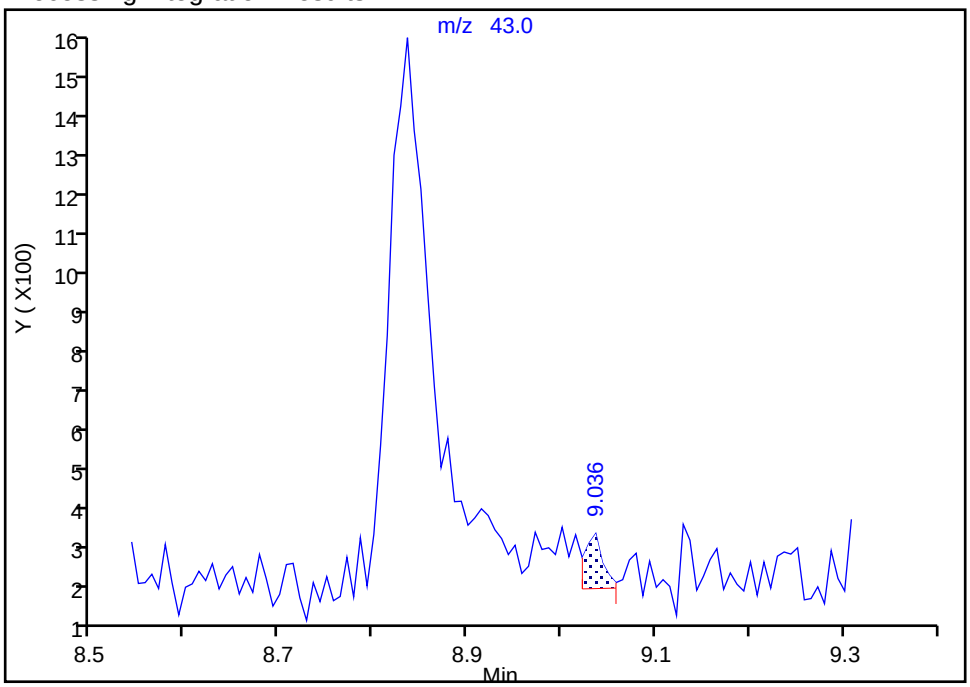
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

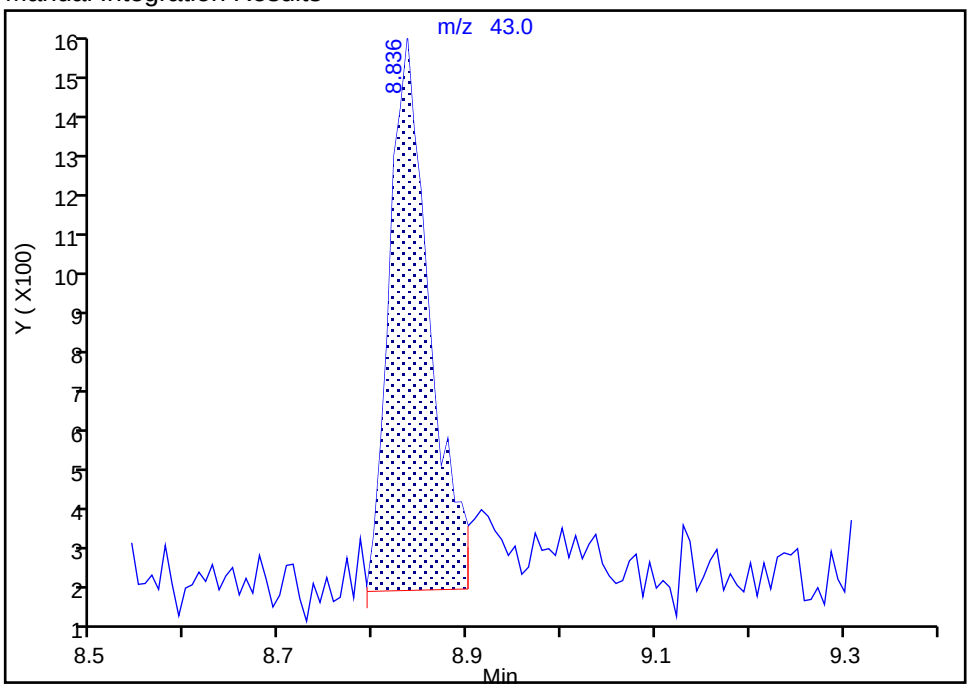
Processing Integration Results

RT: 9.04
Area: 180
Amount: 0.020069
Amount Units: ug/l



Manual Integration Results

RT: 8.84
Area: 3891
Amount: 0.475807
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:44:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

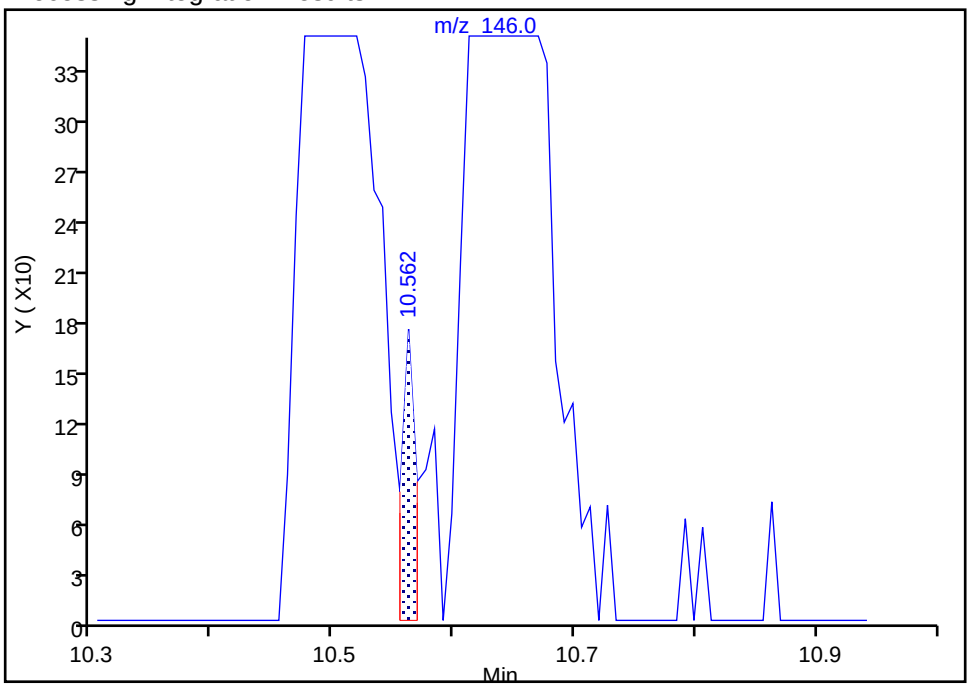
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D				
Injection Date:	20-Apr-2018 03:01:30	Instrument ID:	CVOAMS13		
Lims ID:	STD05				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

120 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

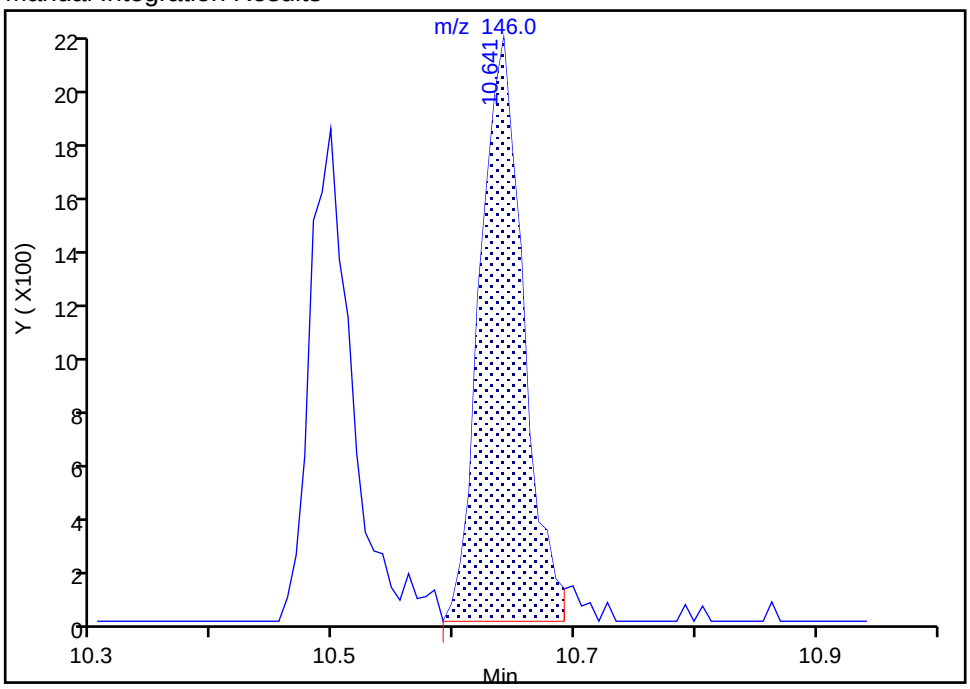
Processing Integration Results

RT: 10.56
Area: 142
Amount: 0.016807
Amount Units: ug/l



Manual Integration Results

RT: 10.64
Area: 5234
Amount: 0.597763
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:44:47

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

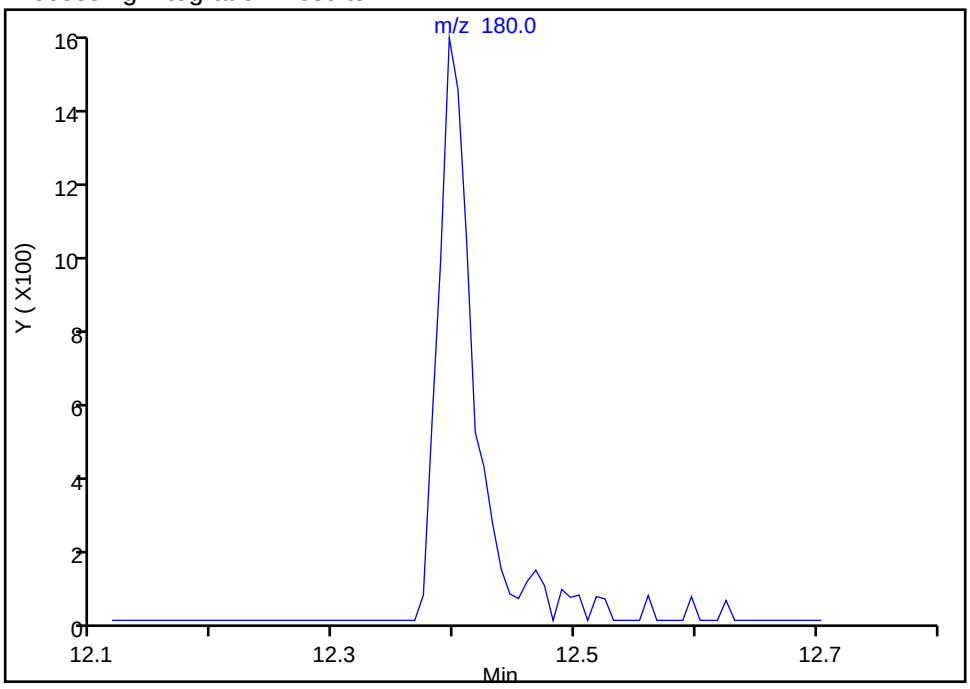
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43992.D
Injection Date: 20-Apr-2018 03:01:30 Instrument ID: CVOAMS13
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

128 1,3,5-Trichlorobenzene, CAS: 108-70-3

Signal: 1

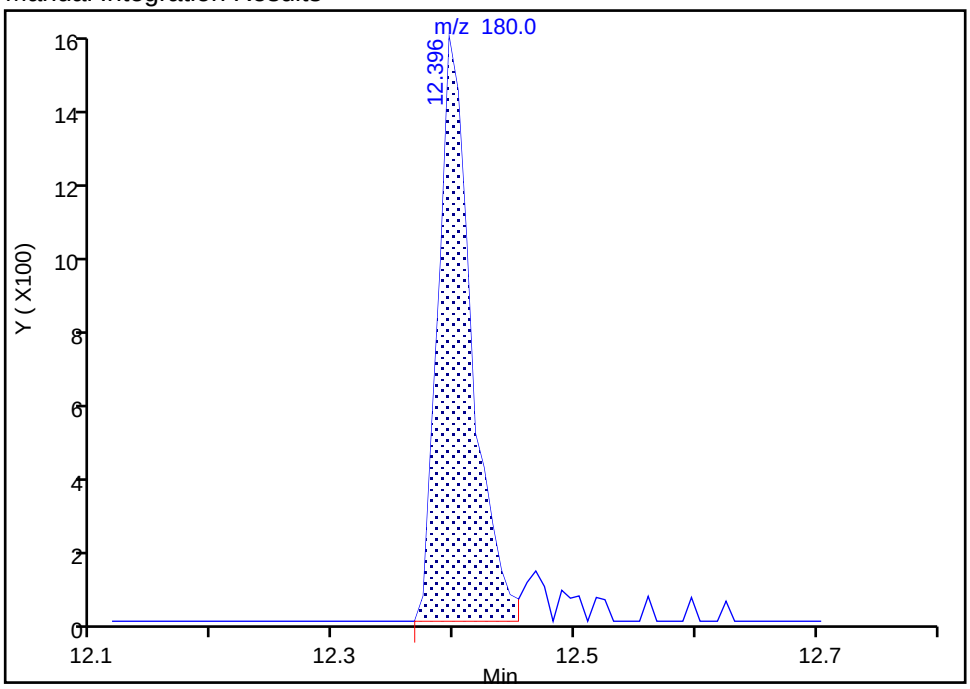
Not Detected
Expected RT: 12.39

Processing Integration Results



Manual Integration Results

RT: 12.40
Area: 2976
Amount: 0.512779
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:44:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43994.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Apr-2018 03:51:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0070689-006
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:03:38 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:25:41

	Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1	Chlorotrifluoroethene	116	0.863	0.863	0.000	90	5997	5.00	4.40	
2	Dichlorodifluoromethane	85	0.870	0.870	0.000	98	21521	5.00	5.24	
4	Chloromethane	50	0.985	0.985	0.000	99	19458	5.00	4.93	
5	Vinyl chloride	62	1.007	1.007	0.000	98	23161	5.00	5.23	
3	Butadiene	54	1.014	1.014	0.000	99	20232	5.00	5.18	
6	Bromomethane	94	1.164	1.164	0.000	97	10103	5.00	5.26	
7	Chloroethane	64	1.229	1.229	0.000	99	13698	5.00	5.42	
8	Trichlorofluoromethane	101	1.300	1.300	0.000	98	22922	5.00	5.30	
9	Pentane	72	1.300	1.300	0.000	98	5745	10.0	10.2	
10	Dichlorofluoromethane	67	1.329	1.329	0.000	98	31040	5.00	5.38	
11	2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	20728	5.00	4.81	
12	Ethyl ether	59	1.458	1.458	0.000	96	14762	5.00	5.09	
13	Ethanol	46	1.537	1.537	0.000	98	4030	200.0	190.6	
14	1,1-Dichloroethene	96	1.565	1.558	0.007	97	13622	5.00	5.18	
15	1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	83	19850	5.00	5.09	
17	1,1,2-Trichloro-1,2,2-trif	101	1.587	1.580	0.007	97	13835	5.00	5.09	
16	Carbon disulfide	76	1.580	1.580	0.000	100	48603	5.00	4.67	
18	Iodomethane	142	1.644	1.644	0.000	100	5109	5.00	1.55	
19	Cyclopentene	67	1.723	1.723	0.000	97	37198	5.00	4.96	
20	Acrolein	56	1.744	1.744	0.000	95	6273	20.0	17.3	
21	3-Chloro-1-propene	76	1.816	1.816	0.000	90	9453	5.00	5.07	
22	Isopropyl alcohol	45	1.837	1.838	-0.001	96	13674	50.0	48.5	
23	Methylene Chloride	84	1.880	1.880	0.000	97	16903	5.00	4.98	
24	Acetone	43	1.902	1.902	0.000	86	26782	25.0	23.4	
25	trans-1,2-Dichloroethene	96	1.974	1.974	0.000	98	14567	5.00	4.65	
26	Methyl acetate	43	1.981	1.981	0.000	100	26849	10.0	9.70	
27	Hexane	86	2.017	2.017	0.000	90	4055	5.00	4.86	
28	Methyl tert-butyl ether	73	2.038	2.038	0.000	94	51185	5.00	5.15	
* 29	TBA-d9 (IS)	65	2.059	2.060	-0.001	0	326675	1000.0	1000.0	
30	2-Methyl-2-propanol	59	2.102	2.103	-0.001	98	20450	50.0	50.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.181	2.174	0.007	98	25476	50.0	51.6	
32 Isopropyl ether	45	2.267	2.267	0.000	97	65037	5.00	5.05	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	-0.001	93	14134	5.00	4.97	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	100	30734	5.00	5.01	
35 Acrylonitrile	53	2.375	2.375	0.000	94	73491	50.0	50.2	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	87	60322	5.00	5.24	
37 Vinyl acetate	43	2.511	2.511	0.000	100	93993	10.0	10.8	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	93	17890	5.00	4.94	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	96	25545	5.00	4.86	
40 Cyclohexane	56	2.833	2.826	0.007	93	31162	5.00	4.88	
41 Chlorobromomethane	128	2.833	2.833	0.000	97	8295	5.00	5.20	
42 Chloroform	83	2.898	2.898	0.000	98	29693	5.00	5.01	
43 Carbon tetrachloride	117	2.984	2.984	0.000	97	19835	5.00	4.80	
45 Methyl acrylate	55	2.998	2.998	0.000	60	17309	5.00	5.04	
44 Ethyl acetate	70	2.998	2.998	0.000	98	4443	10.0	9.32	
46 Tetrahydrofuran	42	3.012	3.005	0.007	94	16141	10.0	9.85	
$ 47 Dibromofluoromethane (Surr	113	3.026	3.027	-0.001	96	157622	50.0	55.8	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	97	25143	5.00	4.94	
* 49 2-Butanone-d5	46	3.084	3.091	-0.007	0	391144	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	81	26421	5.00	5.22	a
50 2-Butanone (MEK)	72	3.127	3.127	0.000	99	11727	25.0	24.5	
52 Isooctane	57	3.213	3.220	-0.007	98	61761	5.00	4.93	
53 n-Heptane	57	3.306	3.313	-0.007	92	17093	5.00	4.99	
54 Benzene	78	3.320	3.320	0.000	97	69217	5.00	4.83	
55 Propionitrile	54	3.342	3.342	0.000	97	29634	50.0	51.4	
56 Methacrylonitrile	67	3.363	3.363	0.000	95	79725	50.0	53.4	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	212359	50.0	55.0	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	98	54476	5.00	5.13	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	25960	5.00	4.94	
60 Isobutyl alcohol	43	3.557	3.557	0.000	97	21623	125.0	122.0	
61 t-Amyl alcohol	59	3.628	3.628	0.000	97	16561	50.0	50.6	
* 62 Fluorobenzene	96	3.664	3.664	0.000	98	533288	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	39217	5.00	5.12	
64 Methylcyclohexane	83	3.800	3.793	0.007	94	30199	5.00	4.95	
65 Trichloroethene	130	3.814	3.815	0.000	97	15612	5.00	4.73	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	92	49197	5.00	5.08	
67 Dibromomethane	93	4.187	4.187	0.000	95	10771	5.00	5.01	
68 n-Butanol	56	4.201	4.194	0.007	96	12763	125.0	120.2	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	86	18738	5.00	5.01	
71 Dichlorobromomethane	83	4.366	4.359	0.007	98	22689	5.00	4.98	
70 Ethyl acrylate	55	4.359	4.359	0.000	90	24141	5.00	5.06	
* 72 1,4-Dioxane-d8	96	4.552	4.545	0.007	0	33609	1000.0	1000.0	
73 Methyl methacrylate	100	4.559	4.552	0.007	93	9667	10.0	10.6	
74 1,4-Dioxane	88	4.581	4.574	0.007	93	4395	100.0	103.2	
75 n-Propyl acetate	43	4.717	4.710	0.007	99	28842	5.00	5.27	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	13288	5.00	5.30	
77 cis-1,3-Dichloropropene	75	5.011	5.004	0.007	98	27896	5.00	4.83	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	666224	50.0	53.8	
79 Toluene	91	5.261	5.261	0.000	93	74964	5.00	4.77	
80 Epichlorohydrin	57	5.290	5.290	0.000	100	38589	100.0	100.6	
81 2-Nitropropane	41	5.519	5.519	0.000	98	10607	10.0	9.92	
82 Tetrachloroethene	166	5.684	5.691	-0.007	92	15981	5.00	4.84	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.734	5.727	0.007	99	100949	25.0	25.6	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	98	25883	5.00	4.86	
85 1,1,2-Trichloroethane	83	5.942	5.935	0.007	94	13006	5.00	4.86	
86 Ethyl methacrylate	69	6.021	6.021	0.000	93	24034	5.00	5.17	
87 Chlorodibromomethane	129	6.142	6.135	0.007	98	15631	5.00	4.83	
88 1,3-Dichloropropane	76	6.257	6.250	0.007	97	27408	5.00	4.97	
89 Ethylene Dibromide	107	6.393	6.386	0.007	99	14987	5.00	4.90	
90 n-Butyl acetate	43	6.730	6.730	0.000	98	30825	5.00	4.85	
91 2-Hexanone	43	6.794	6.794	0.000	99	71101	25.0	25.7	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	452378	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	91	45498	5.00	4.82	
94 Ethylbenzene	106	7.181	7.181	0.000	99	25690	5.00	4.93	
95 1,1,1,2-Tetrachloroethane	131	7.217	7.210	0.007	93	15083	5.00	4.86	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	31009	5.00	4.91	
97 o-Xylene	106	7.990	7.991	-0.001	93	30134	5.00	4.89	
98 Bromoform	173	8.055	8.055	0.000	94	9639	5.00	4.72	
99 Styrene	104	8.084	8.077	0.008	93	50839	5.00	4.92	
100 n-Butyl acrylate	73	8.406	8.399	0.007	96	13528	5.00	5.02	
101 Isopropylbenzene	105	8.478	8.478	0.000	97	79527	5.00	4.78	
102 Amyl acetate (mixed isomer	43	8.821	8.814	0.007	90	37324	5.00	5.02	a
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	190164	50.0	53.8	
104 Bromobenzene	156	8.957	8.958	-0.001	95	19962	5.00	5.14	
105 N-Propylbenzene	91	9.115	9.108	0.007	99	97818	5.00	4.88	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.258	0.000	98	21201	5.00	5.05	
107 2-Chlorotoluene	91	9.287	9.287	0.000	96	66506	5.00	4.88	
108 4-Ethyltoluene	105	9.301	9.301	0.000	97	80122	5.00	4.92	
109 1,2,3-Trichloropropane	110	9.394	9.395	0.000	96	6402	5.00	5.35	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	92	68150	5.00	4.90	
111 trans-1,4-Dichloro-2-buten	53	9.531	9.516	0.015	84	6891	5.00	4.64	
112 4-Chlorotoluene	91	9.552	9.552	0.000	98	60459	5.00	4.81	
113 tert-Butylbenzene	119	9.924	9.925	-0.001	93	57058	5.00	4.99	
115 1,2,4-Trimethylbenzene	105	10.061	10.054	0.007	95	67771	5.00	4.90	
114 Butyl Methacrylate	87	10.061	10.054	0.007	63	24048	5.00	4.92	
116 sec-Butylbenzene	105	10.218	10.218	0.000	98	86419	5.00	4.85	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	94	36962	5.00	5.02	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	72660	5.00	4.91	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	97	238334	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.641	10.634	0.007	92	37953	5.00	4.76	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	70642	5.00	4.85	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	71144	5.00	5.06	
122 Benzyl chloride	126	11.099	11.092	0.007	97	7734	5.00	5.03	
123 p-Diethylbenzene	119	11.106	11.106	0.000	91	37371	5.00	4.75	
124 n-Butylbenzene	91	11.192	11.185	0.007	99	67270	5.00	4.75	
125 1,2-Dichlorobenzene	146	11.300	11.293	0.007	94	35363	5.00	5.04	
126 1,2,4,5-Tetramethylbenzene	119	12.202	12.202	0.000	97	62876	5.00	4.94	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	91	3678	5.00	4.84	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	25806	5.00	4.89	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	94	21690	5.00	4.65	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	91	10874	5.00	4.76	
131 Naphthalene	128	13.356	13.356	0.000	99	50447	5.00	4.79	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	94	20267	5.00	4.81	
S 133 1,2-Dichloroethene, Total	100				0		10.0	9.59	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		10.0	9.69	
S 135 Xylenes, Total	100				0		10.0	9.80	
S 137 Total BTEX	1				0		25.0	24.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00075	Amount Added:	4.00	Units: uL		
MIX 2 Hi_00069	Amount Added:	1.00	Units: uL		
Ethanol mix_00014	Amount Added:	1.00	Units: uL		
GAS Hi_00250	Amount Added:	1.00	Units: uL		
MIX I Hi_00093	Amount Added:	1.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 23-Apr-2018 14:03:41 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43994.D

Injection Date: 20-Apr-2018 03:51:30 Instrument ID: CVOAMS13 Operator ID:

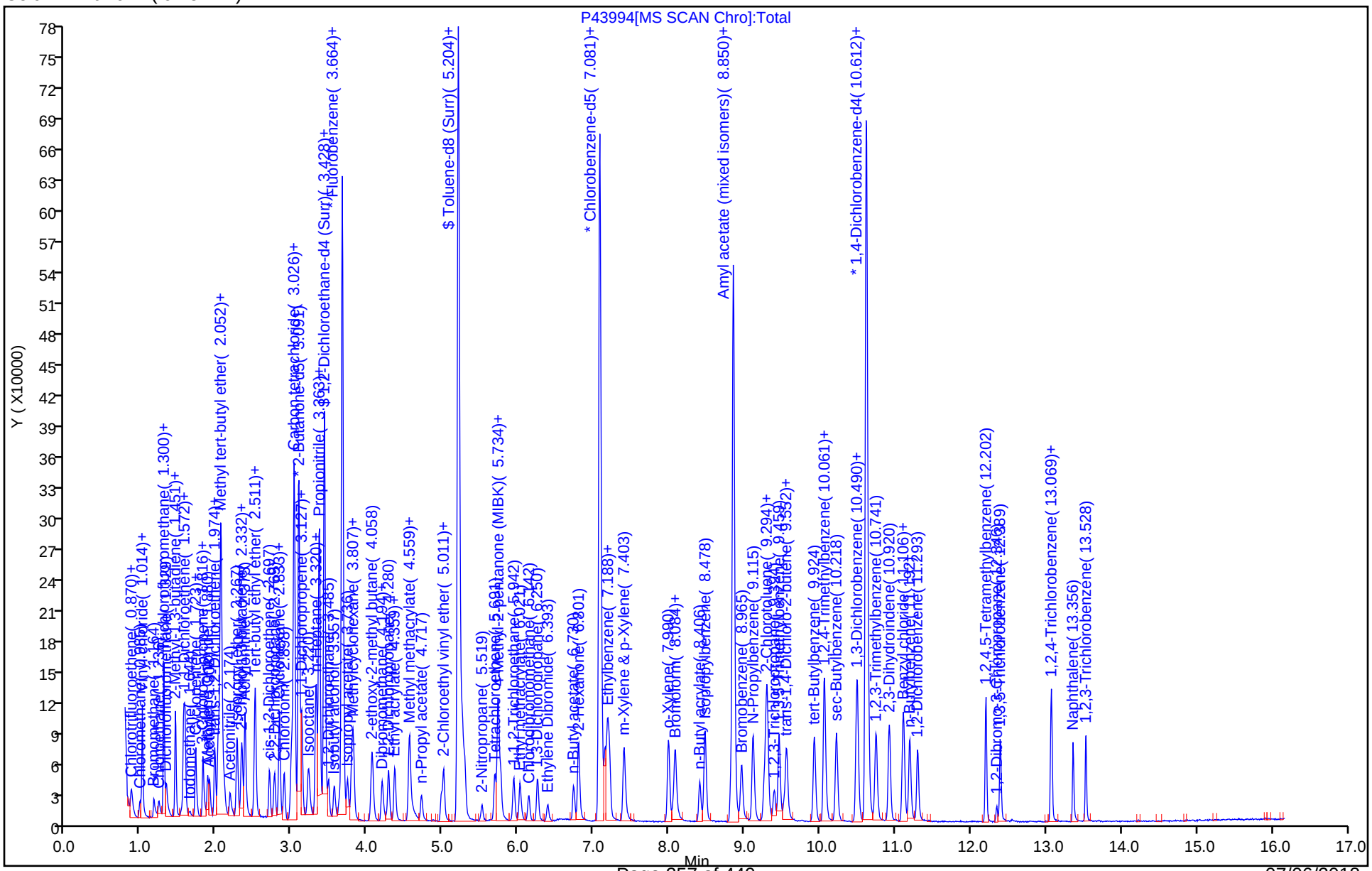
Lims ID: STD5 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

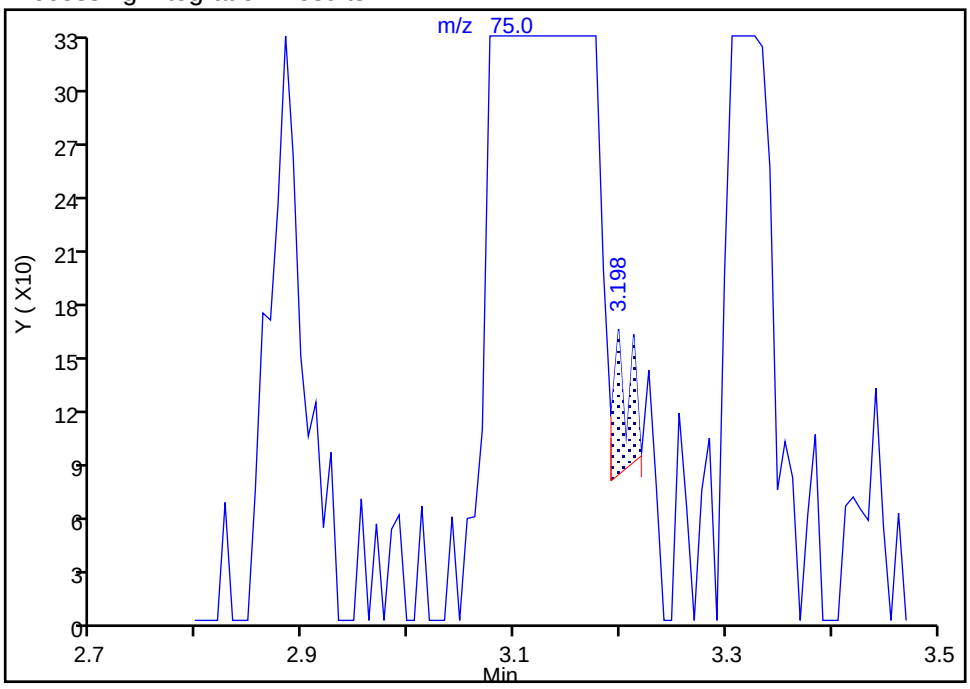
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43994.D
Injection Date: 20-Apr-2018 03:51:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

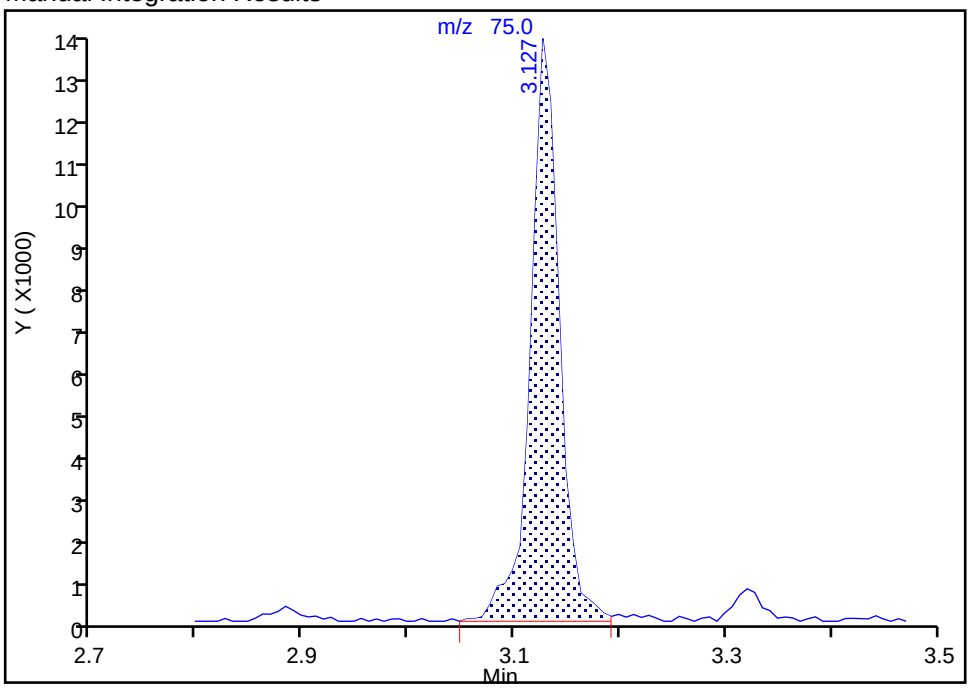
Processing Integration Results

RT: 3.20
Area: 87
Amount: 0.017734
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 26421
Amount: 5.222136
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:47:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

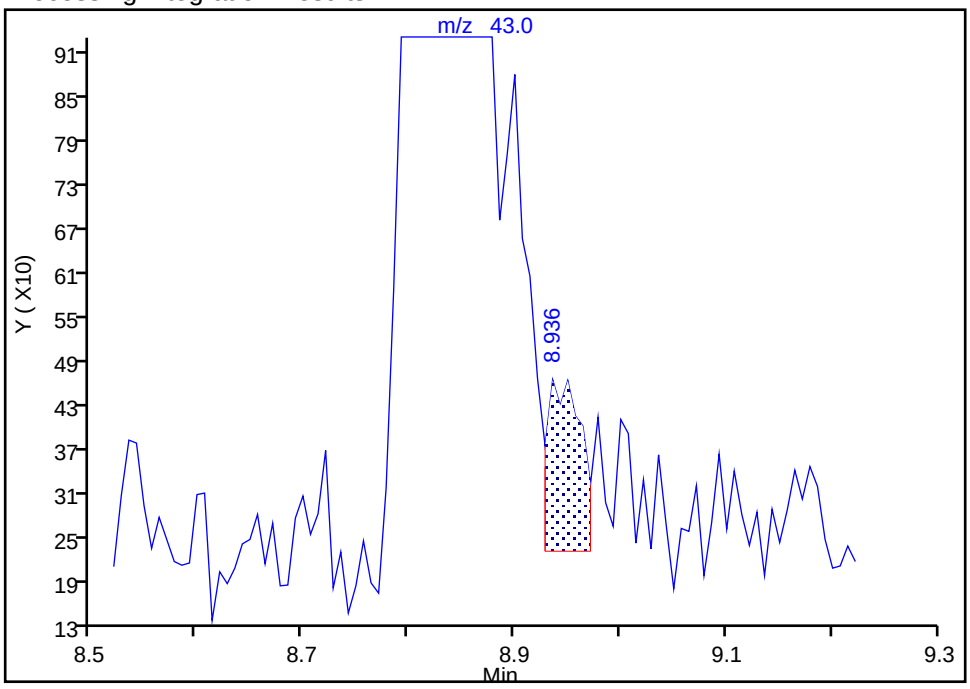
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43994.D
Injection Date: 20-Apr-2018 03:51:30 Instrument ID: CVOAMS13
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

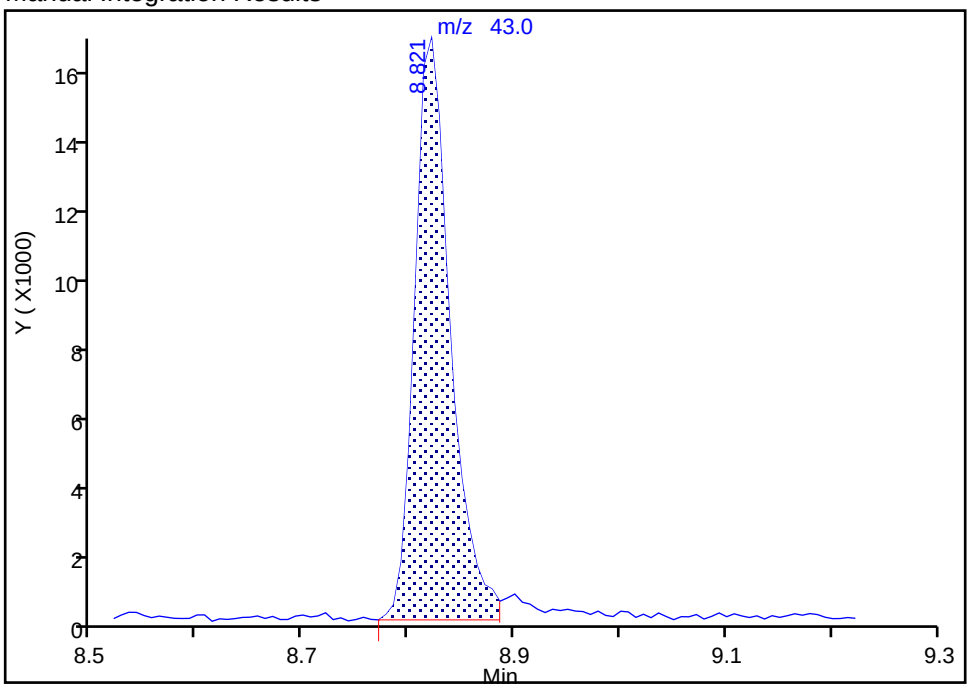
Processing Integration Results

RT: 8.94
Area: 538
Amount: 0.065935
Amount Units: ug/l



Manual Integration Results

RT: 8.82
Area: 37324
Amount: 5.017030
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:48:01
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43995.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 20-Apr-2018 04:17:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0070689-007
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:04:02 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: boykink Date: 20-Apr-2018 03:52:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	91	29153	20.0	18.8	
2 Dichlorodifluoromethane	85	0.870	0.870	0.000	99	89981	20.0	19.3	
4 Chloromethane	50	0.985	0.985	0.000	99	81159	20.0	18.1	
5 Vinyl chloride	62	1.007	1.007	0.000	98	92854	20.0	18.5	
3 Butadiene	54	1.014	1.014	0.000	99	84262	20.0	19.0	
6 Bromomethane	94	1.164	1.164	0.000	99	41619	20.0	19.7	
7 Chloroethane	64	1.229	1.229	0.000	100	53225	20.0	18.6	
9 Pentane	72	1.300	1.300	0.000	97	24127	40.0	39.7	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	98	95911	20.0	19.5	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	129522	20.0	19.8	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	97	102523	20.0	21.0	
12 Ethyl ether	59	1.458	1.458	0.000	92	66409	20.0	20.2	
13 Ethanol	46	1.537	1.537	0.000	99	19972	800.0	875.6	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	84	89246	20.0	20.2	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	97	60187	20.0	20.2	
16 Carbon disulfide	76	1.580	1.580	0.000	100	227224	20.0	19.2	
17 1,1,2-Trichloro-1,2,2-trif	101	1.580	1.580	0.000	91	61826	20.0	20.0	
18 Iodomethane	142	1.644	1.644	0.000	100	40377	20.0	10.8	
19 Cyclopentene	67	1.723	1.723	0.000	97	174651	20.0	20.5	
20 Acrolein	56	1.744	1.744	0.000	96	13537	40.0	34.5	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	90	42512	20.0	20.1	
22 Isopropyl alcohol	45	1.838	1.838	0.000	97	57779	200.0	189.8	
23 Methylene Chloride	84	1.880	1.880	0.000	98	75569	20.0	19.6	
24 Acetone	43	1.902	1.902	0.000	85	113715	100.0	90.3	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	98	68511	20.0	19.3	
26 Methyl acetate	43	1.981	1.981	0.000	99	132620	40.0	42.2	
27 Hexane	86	2.017	2.017	0.000	95	19137	20.0	20.2	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	94	225447	20.0	20.0	
* 29 TBA-d9 (IS)	65	2.060	2.060	0.000	0	352476	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.103	2.103	0.000	99	84711	200.0	192.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	99	107597	200.0	202.0	
32 Isopropyl ether	45	2.267	2.267	0.000	97	294050	20.0	20.1	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	93	66792	20.0	20.7	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	142687	20.0	20.5	
35 Acrylonitrile	53	2.375	2.375	0.000	93	332109	200.0	199.9	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	87	264338	20.0	20.2	
37 Vinyl acetate	43	2.511	2.511	0.000	100	417622	40.0	42.2	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	94	81951	20.0	20.0	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	98	120337	20.0	20.2	
40 Cyclohexane	56	2.826	2.826	0.000	95	145016	20.0	20.0	
41 Chlorobromomethane	128	2.833	2.833	0.000	96	36290	20.0	20.1	
42 Chloroform	83	2.898	2.898	0.000	97	136382	20.0	20.3	
43 Carbon tetrachloride	117	2.984	2.984	0.000	98	90733	20.0	19.3	
44 Ethyl acetate	70	2.998	2.998	0.000	99	19825	40.0	37.8	
45 Methyl acrylate	55	2.998	2.998	0.000	96	77898	20.0	20.0	
46 Tetrahydrofuran	42	3.005	3.005	0.000	94	72752	40.0	40.3	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	158205	50.0	49.4	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	98	114741	20.0	19.9	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	430832	250.0	250.0	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	99	51090	100.0	97.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	93	110256	20.0	19.2	
52 Isooctane	57	3.220	3.220	0.000	98	284359	20.0	20.0	
53 n-Heptane	57	3.313	3.313	0.000	94	78576	20.0	20.2	
54 Benzene	78	3.320	3.320	0.000	96	324927	20.0	20.5	
55 Propionitrile	54	3.342	3.342	0.000	94	124027	200.0	199.5	
56 Methacrylonitrile	67	3.363	3.363	0.000	95	351963	200.0	207.7	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	209977	50.0	47.9	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	99	245635	20.0	20.4	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	111335	20.0	18.7	
60 Isobutyl alcohol	43	3.557	3.557	0.000	98	97565	500.0	510.0	
61 t-Amyl alcohol	59	3.628	3.628	0.000	98	69095	200.0	195.8	
* 62 Fluorobenzene	96	3.664	3.664	0.000	98	605148	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	177364	20.0	20.4	
64 Methylcyclohexane	83	3.793	3.793	0.000	94	138356	20.0	20.0	
65 Trichloroethene	130	3.815	3.815	0.000	97	74245	20.0	19.8	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	90	223106	20.0	20.3	
67 Dibromomethane	93	4.187	4.187	0.000	95	48719	20.0	20.0	
68 n-Butanol	56	4.194	4.194	0.000	90	57449	500.0	501.6	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	89	84382	20.0	19.9	
70 Ethyl acrylate	55	4.359	4.359	0.000	97	113198	20.0	20.9	
71 Dichlorobromomethane	83	4.359	4.359	0.000	98	104821	20.0	20.3	
* 72 1,4-Dioxane-d8	96	4.545	4.545	0.000	0	36837	1000.0	1000.0	
73 Methyl methacrylate	100	4.552	4.552	0.000	93	43516	40.0	42.0	
74 1,4-Dioxane	88	4.574	4.574	0.000	98	17884	400.0	383.3	
75 n-Propyl acetate	43	4.710	4.710	0.000	100	130083	20.0	20.9	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	59340	20.0	20.9	
77 cis-1,3-Dichloropropene	75	5.004	5.004	0.000	97	130579	20.0	20.5	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	660714	50.0	48.3	
79 Toluene	91	5.261	5.261	0.000	93	348179	20.0	20.1	
80 Epichlorohydrin	57	5.290	5.290	0.000	99	178915	400.0	423.3	
81 2-Nitropropane	41	5.519	5.519	0.000	98	47049	40.0	38.8	
82 Tetrachloroethene	166	5.691	5.691	0.000	97	74887	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	99	457222	100.0	105.3	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	96	120901	20.0	20.6	
85 1,1,2-Trichloroethane	83	5.935	5.935	0.000	95	58200	20.0	19.7	
86 Ethyl methacrylate	69	6.021	6.021	0.000	92	114032	20.0	21.6	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	71960	20.0	20.1	
88 1,3-Dichloropropane	76	6.250	6.250	0.000	97	123338	20.0	20.3	
89 Ethylene Dibromide	107	6.386	6.386	0.000	98	68640	20.0	20.3	
90 n-Butyl acetate	43	6.730	6.730	0.000	98	142483	20.0	20.3	
91 2-Hexanone	43	6.794	6.794	0.000	98	321541	100.0	105.4	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	90	499543	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	98	207619	20.0	19.9	
94 Ethylbenzene	106	7.181	7.181	0.000	99	115549	20.0	20.1	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	94	69351	20.0	20.2	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	143350	20.0	20.6	
97 o-Xylene	106	7.991	7.991	0.000	93	137892	20.0	20.2	
98 Bromoform	173	8.055	8.055	0.000	94	46059	20.0	20.4	
99 Styrene	104	8.077	8.077	0.000	93	238335	20.0	20.9	
100 n-Butyl acrylate	73	8.399	8.399	0.000	95	65222	20.0	21.9	
101 Isopropylbenzene	105	8.478	8.478	0.000	96	371045	20.0	20.2	
102 Amyl acetate (mixed isomer	43	8.814	8.814	0.000	88	175029	20.0	21.0	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	190141	50.0	48.7	
104 Bromobenzene	156	8.958	8.958	0.000	95	85837	20.0	19.7	
105 N-Propylbenzene	91	9.108	9.108	0.000	99	454851	20.0	20.2	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.258	0.000	98	92838	20.0	19.7	
107 2-Chlorotoluene	91	9.287	9.287	0.000	96	306889	20.0	20.1	
108 4-Ethyltoluene	105	9.301	9.301	0.000	98	375036	20.0	20.5	
109 1,2,3-Trichloropropane	110	9.395	9.395	0.000	97	27233	20.0	20.3	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	92	315371	20.0	20.2	
111 trans-1,4-Dichloro-2-buten	53	9.516	9.516	0.000	88	30703	20.0	18.4	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	280188	20.0	19.9	
113 tert-Butylbenzene	119	9.925	9.925	0.000	93	263298	20.0	20.5	
114 Butyl Methacrylate	87	10.054	10.054	0.000	66	115353	20.0	21.1	
115 1,2,4-Trimethylbenzene	105	10.054	10.054	0.000	95	321286	20.0	20.7	
116 sec-Butylbenzene	105	10.218	10.218	0.000	99	404639	20.0	20.2	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	94	165407	20.0	20.0	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	340095	20.0	20.5	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	97	267262	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.634	0.000	92	170565	20.0	19.1	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	333748	20.0	20.5	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	323522	20.0	20.5	
122 Benzyl chloride	126	11.092	11.092	0.000	96	35862	20.0	20.8	
123 p-Diethylbenzene	119	11.106	11.106	0.000	91	177839	20.0	20.2	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	320768	20.0	20.2	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	94	159060	20.0	20.2	
126 1,2,4,5-Tetramethylbenzene	119	12.202	12.202	0.000	97	292939	20.0	20.5	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	95	17309	20.0	20.3	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	120523	20.0	20.4	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	94	104827	20.0	20.1	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	92	51742	20.0	20.2	
131 Naphthalene	128	13.356	13.356	0.000	99	229589	20.0	19.5	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	95	92520	20.0	19.6	
S 133 1,2-Dichloroethene, Total	100				0		40.0	39.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		40.0	41.0	
S 135 Xylenes, Total	100				0		40.0	40.8	
S 137 Total BTEX	1				0		100.0	101.5	

Reagents:

MIX 2 Hi_00069	Amount Added:	2.00	Units: uL		
Ethanol mix_00014	Amount Added:	2.00	Units: uL		
ACROLEIN W_00075	Amount Added:	4.00	Units: uL		
GAS Hi_00250	Amount Added:	2.00	Units: uL		
MIX I Hi_00093	Amount Added:	2.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 23-Apr-2018 14:04:06 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43995.D

Injection Date: 20-Apr-2018 04:17:30 Instrument ID: CVOAMS13 Operator ID:

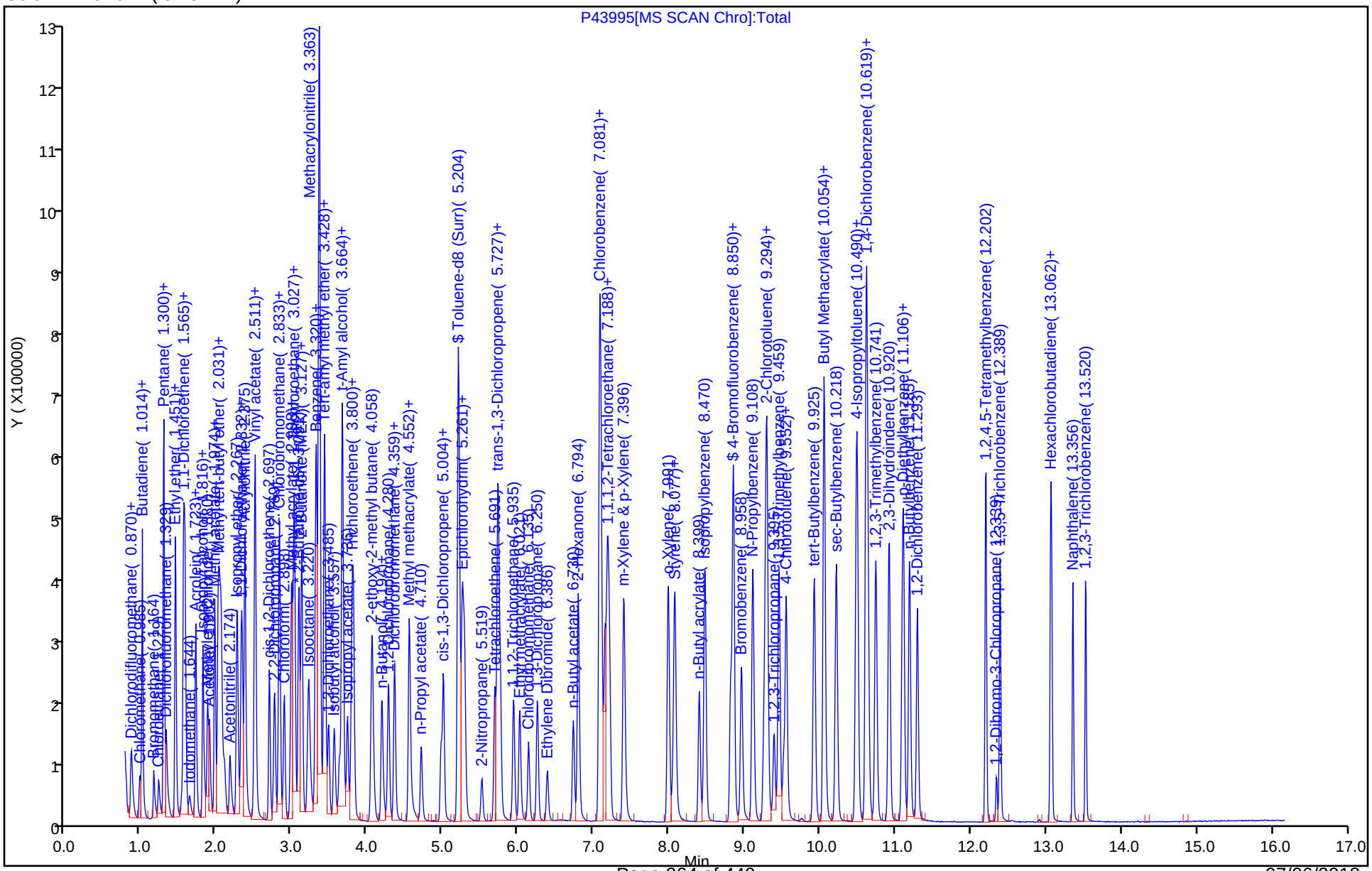
Lims ID: STD20 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Apr-2018 06:00:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0070689-010
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:04:23 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:26:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.864	0.863	0.001	88	1247	1.00	0.8353	
2 Dichlorodifluoromethane	85	0.871	0.870	0.001	99	4275	1.00	0.9504	
4 Chloromethane	50	0.985	0.985	0.000	98	4245	1.00	0.9836	
5 Vinyl chloride	62	1.007	1.007	0.000	77	5201	1.00	1.07	
3 Butadiene	54	1.014	1.014	0.000	97	4416	1.00	1.03	
6 Bromomethane	94	1.164	1.164	0.000	96	2070	1.00	1.00	
7 Chloroethane	64	1.229	1.229	0.000	97	3016	1.00	1.09	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	94	4661	1.00	0.9838	
9 Pentane	72	1.300	1.300	0.000	96	1180	2.00	1.93	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	98	6341	1.00	1.00	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	4285	1.00	0.9093	
12 Ethyl ether	59	1.458	1.458	0.000	93	3294	1.00	1.04	
13 Ethanol	46	1.537	1.537	0.000	97	1061	40.0	46.2	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	93	2852	1.00	0.99	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	75	4466	1.00	1.05	
17 1,1,2-Trichloro-1,2,2-trif	101	1.580	1.580	0.000	40	2674	1.00	0.8982	
16 Carbon disulfide	76	1.580	1.580	0.000	100	11376	1.00	1.00	
18 Iodomethane	142	1.644	1.644	0.000	95	997	1.00	0.2768	
19 Cyclopentene	67	1.723	1.723	0.000	98	7436	1.00	0.9065	
20 Acrolein	56	1.737	1.744	-0.007	94	1219	4.00	3.09	M
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	2230	1.00	1.09	
22 Isopropyl alcohol	45	1.838	1.838	0.000	96	3435	10.0	11.2	
23 Methylene Chloride	84	1.881	1.880	0.001	95	4227	1.00	1.14	
24 Acetone	43	1.909	1.902	0.007	86	6981	5.00	5.66	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	96	3648	1.00	1.06	
26 Methyl acetate	43	1.981	1.981	0.000	99	6295	2.00	2.08	
27 Hexane	86	2.017	2.017	0.000	64	799	1.00	0.8758	
28 Methyl tert-butyl ether	73	2.031	2.038	-0.007	91	10902	1.00	1.00	
* 29 TBA-d9 (IS)	65	2.053	2.060	-0.007	0	355185	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.103	2.103	0.000	92	4596	10.0	10.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	100	5310	10.0	9.90	
32 Isopropyl ether	45	2.267	2.267	0.000	97	14258	1.00	1.01	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	94	3037	1.00	0.9752	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	6715	1.00	1.00	
35 Acrylonitrile	53	2.375	2.375	0.000	94	15674	10.0	9.78	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	87	12311	1.00	0.9769	
37 Vinyl acetate	43	2.518	2.511	0.007	100	20773	2.00	2.18	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	93	4071	1.00	1.03	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	97	6022	1.00	1.05	
40 Cyclohexane	56	2.826	2.826	0.000	94	6418	1.00	0.9183	
41 Chlorobromomethane	128	2.833	2.833	0.000	84	1724	1.00	0.9883	
42 Chloroform	83	2.898	2.898	0.000	98	6593	1.00	1.02	
43 Carbon tetrachloride	117	2.984	2.984	0.000	95	4370	1.00	0.9657	
45 Methyl acrylate	55	3.005	2.998	0.007	51	3255	1.00	0.8658	
44 Ethyl acetate	70	2.998	2.998	0.000	96	984	2.00	1.91	
46 Tetrahydrofuran	42	3.012	3.005	0.007	33	3604	2.00	2.04	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	156101	50.0	50.5	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	36	5440	1.00	0.9764	
* 49 2-Butanone-d5	46	3.084	3.091	-0.007	0	422206	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	66	6053	1.00	1.09	a
50 2-Butanone (MEK)	72	3.134	3.127	0.007	97	2580	5.00	5.00	
52 Isooctane	57	3.213	3.220	-0.007	98	13653	1.00	1.00	
53 n-Heptane	57	3.306	3.313	-0.007	60	3622	1.00	0.9658	
54 Benzene	78	3.320	3.320	0.000	97	14754	1.00	0.9604	
55 Propionitrile	54	3.342	3.342	0.000	94	5977	10.0	9.54	
56 Methacrylonitrile	67	3.363	3.363	0.000	94	15749	10.0	9.64	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	210668	50.0	49.8	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	39	11308	1.00	0.9732	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	94	6390	1.00	1.11	
60 Isobutyl alcohol	43	3.557	3.557	0.000	97	4289	25.0	22.3	
61 t-Amyl alcohol	59	3.636	3.628	0.008	52	3498	10.0	9.84	a
* 62 Fluorobenzene	96	3.664	3.664	0.000	98	583669	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	97	7688	1.00	0.9179	
64 Methylcyclohexane	83	3.793	3.793	0.000	95	6439	1.00	0.9638	
65 Trichloroethene	130	3.815	3.815	0.001	95	3412	1.00	0.9444	
66 2-ethoxy-2-methyl butane	59	4.065	4.058	0.007	91	10552	1.00	1.00	
67 Dibromomethane	93	4.194	4.187	0.007	88	2422	1.00	1.03	
68 n-Butanol	56	4.216	4.194	0.022	91	2629	25.0	22.8	M
69 1,2-Dichloropropane	63	4.280	4.280	0.000	88	4033	1.00	0.9843	
71 Dichlorobromomethane	83	4.359	4.359	0.000	96	4712	1.00	0.9451	
70 Ethyl acrylate	55	4.366	4.359	0.007	81	4169	1.00	0.7990	
* 72 1,4-Dioxane-d8	96	4.552	4.545	0.007	0	37422	1000.0	1000.0	M
73 Methyl methacrylate	100	4.560	4.552	0.008	64	1928	2.00	1.93	
74 1,4-Dioxane	88	4.588	4.574	0.014	80	2133	50.0	45.0	
75 n-Propyl acetate	43	4.717	4.710	0.007	98	5510	1.00	0.9196	
76 2-Chloroethyl vinyl ether	63	4.989	4.975	0.014	95	2682	1.00	0.9773	
77 cis-1,3-Dichloropropene	75	5.011	5.004	0.007	98	5986	1.00	0.9674	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	662057	50.0	49.9	
79 Toluene	91	5.254	5.261	-0.007	93	16858	1.00	1.00	
80 Epichlorohydrin	57	5.297	5.290	0.007	98	7344	20.0	17.7	
81 2-Nitropropane	41	5.527	5.519	0.008	98	1776	2.00	1.52	
82 Tetrachloroethene	166	5.691	5.691	0.000	93	3504	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.734	5.727	0.007	97	19502	5.00	4.58	
84 trans-1,3-Dichloropropene	75	5.770	5.763	0.007	96	4916	1.00	0.8623	
85 1,1,2-Trichloroethane	83	5.949	5.935	0.014	93	2771	1.00	0.9671	
86 Ethyl methacrylate	69	6.028	6.021	0.007	91	4237	1.00	0.8328	
87 Chlorodibromomethane	129	6.143	6.135	0.008	96	3031	1.00	0.8736	
88 1,3-Dichloropropane	76	6.257	6.250	0.007	94	5363	1.00	0.9084	
89 Ethylene Dibromide	107	6.386	6.386	0.000	99	2815	1.00	0.8592	
90 n-Butyl acetate	43	6.737	6.730	0.007	98	6156	1.00	0.9049	
91 2-Hexanone	43	6.809	6.794	0.015	97	13195	5.00	4.41	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	484552	50.0	50.0	
93 Chlorobenzene	112	7.095	7.102	-0.007	85	10058	1.00	0.99	
94 Ethylbenzene	106	7.181	7.181	0.000	98	5737	1.00	1.03	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	89	3154	1.00	0.9490	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	6232	1.00	0.9221	
97 o-Xylene	106	7.998	7.991	0.007	92	6405	1.00	0.9695	
98 Bromoform	173	8.062	8.055	0.007	93	1815	1.00	0.8300	
99 Styrene	104	8.091	8.077	0.015	95	9923	1.00	0.8963	M
100 n-Butyl acrylate	73	8.421	8.399	0.021	98	2383	1.00	0.8258	
101 Isopropylbenzene	105	8.485	8.478	0.007	96	17911	1.00	1.01	
102 Amyl acetate (mixed isomer	43	8.829	8.814	0.015	44	6241	1.00	0.7782	a
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	187577	50.0	49.5	
104 Bromobenzene	156	8.965	8.958	0.007	93	4072	1.00	0.9730	
105 N-Propylbenzene	91	9.115	9.108	0.007	98	21884	1.00	1.01	
106 1,1,2,2-Tetrachloroethane	83	9.266	9.258	0.008	98	4334	1.00	0.9577	
107 2-Chlorotoluene	91	9.294	9.287	0.007	97	14727	1.00	1.00	
108 4-Ethyltoluene	105	9.302	9.301	0.001	98	17055	1.00	0.9716	
109 1,2,3-Trichloropropane	110	9.402	9.395	0.008	92	1203	1.00	0.9329	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	94	14062	1.00	0.9383	
111 trans-1,4-Dichloro-2-buten	53	9.538	9.516	0.022	60	1612	1.00	1.01	M
112 4-Chlorotoluene	91	9.567	9.552	0.015	98	13757	1.00	1.01	
113 tert-Butylbenzene	119	9.932	9.925	0.007	91	12131	1.00	0.9833	
115 1,2,4-Trimethylbenzene	105	10.061	10.054	0.007	94	15019	1.00	1.01	
114 Butyl Methacrylate	87	10.068	10.054	0.014	60	4909	1.00	0.9325	
116 sec-Butylbenzene	105	10.226	10.218	0.008	99	18969	1.00	0.9873	
117 1,3-Dichlorobenzene	146	10.491	10.483	0.008	90	7580	1.00	0.9557	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	15465	1.00	0.9701	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	98	256918	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.634	0.000	90	8879	1.00	1.03	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	15537	1.00	0.99	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	14246	1.00	0.9395	
122 Benzyl chloride	126	11.107	11.092	0.015	95	1451	1.00	0.8747	
123 p-Diethylbenzene	119	11.114	11.106	0.008	81	7961	1.00	0.9388	
124 n-Butylbenzene	91	11.193	11.185	0.008	97	14922	1.00	0.9783	
125 1,2-Dichlorobenzene	146	11.300	11.293	0.007	93	6976	1.00	0.9219	
126 1,2,4,5-Tetramethylbenzene	119	12.203	12.202	0.001	98	12499	1.00	0.9101	
127 1,2-Dibromo-3-Chloropropan	157	12.353	12.346	0.007	90	743	1.00	0.9073	
128 1,3,5-Trichlorobenzene	180	12.396	12.389	0.007	94	5549	1.00	0.9750	
129 1,2,4-Trichlorobenzene	180	13.069	13.062	0.007	90	4949	1.00	0.9850	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	90	2471	1.00	1.00	
131 Naphthalene	128	13.363	13.356	0.007	98	10424	1.00	0.9191	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	94	4466	1.00	0.9831	
S 133 1,2-Dichloroethene, Total	100				0		2.00	2.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		2.00	1.83	
S 135 Xylenes, Total	100				0		2.00	1.89	
S 137 Total BTEX	1				0		5.00	4.88	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00075	Amount Added:	4.00	Units: uL	
MIX 2 Hi_00069	Amount Added:	1.00	Units: uL	
Ethanol mix_00014	Amount Added:	1.00	Units: uL	
GAS Hi_00250	Amount Added:	1.00	Units: uL	
MIX I Hi_00093	Amount Added:	1.00	Units: uL	
14DIOXINTER_00083	Amount Added:	30.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

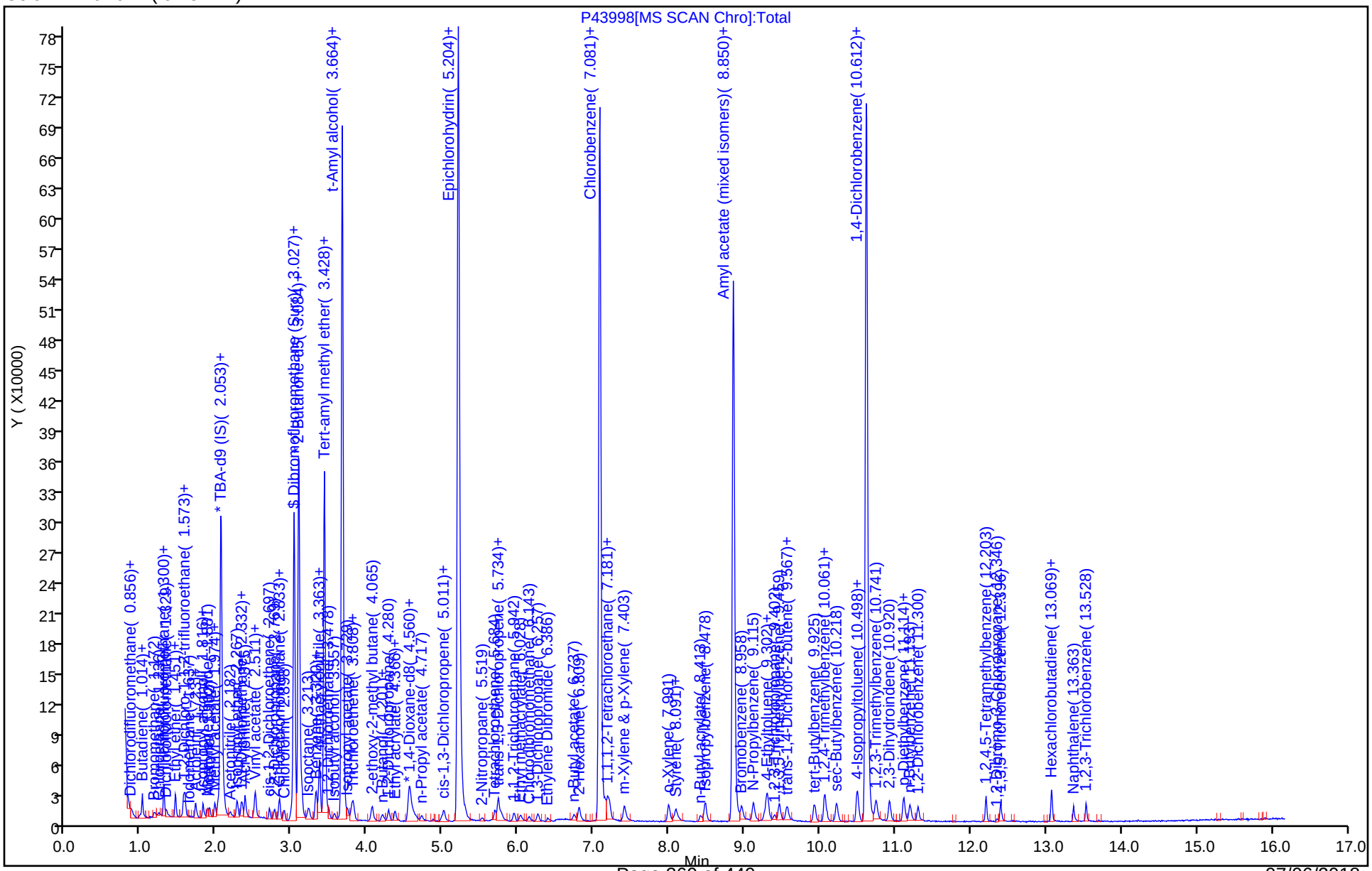
Report Date: 23-Apr-2018 14:04:26 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D

Injection Date:	20-Apr-2018 06:00:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

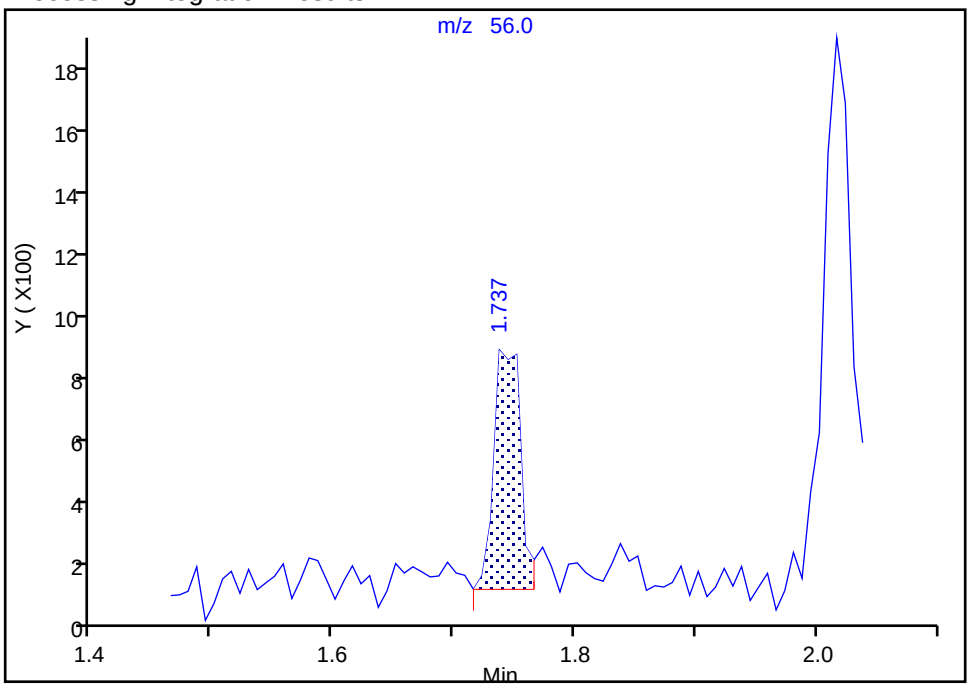
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Acrolein, CAS: 107-02-8

Signal: 1

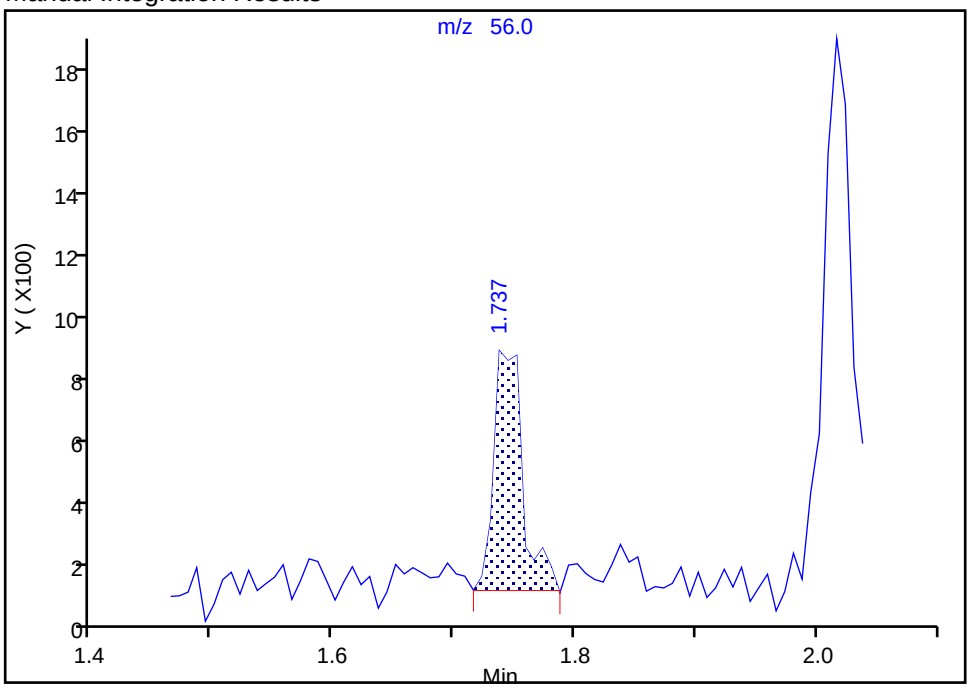
Processing Integration Results

RT: 1.74
Area: 1132
Amount: 2.662671
Amount Units: ug/l



Manual Integration Results

RT: 1.74
Area: 1219
Amount: 3.086699
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 13:04:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

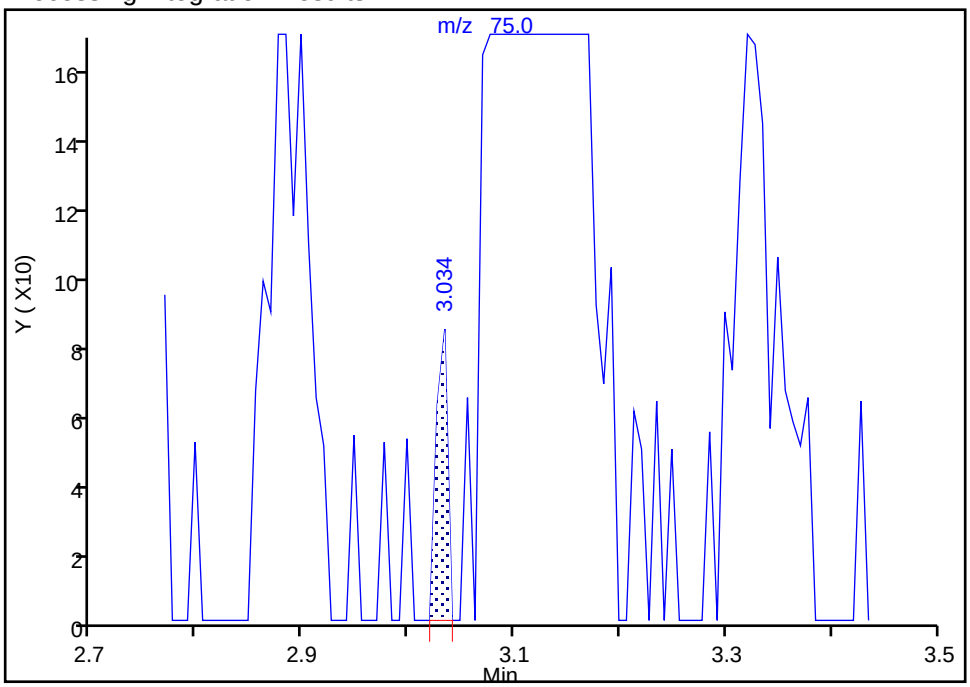
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

51 1,1-Dichloropropene, CAS: 563-58-6

Signal: 1

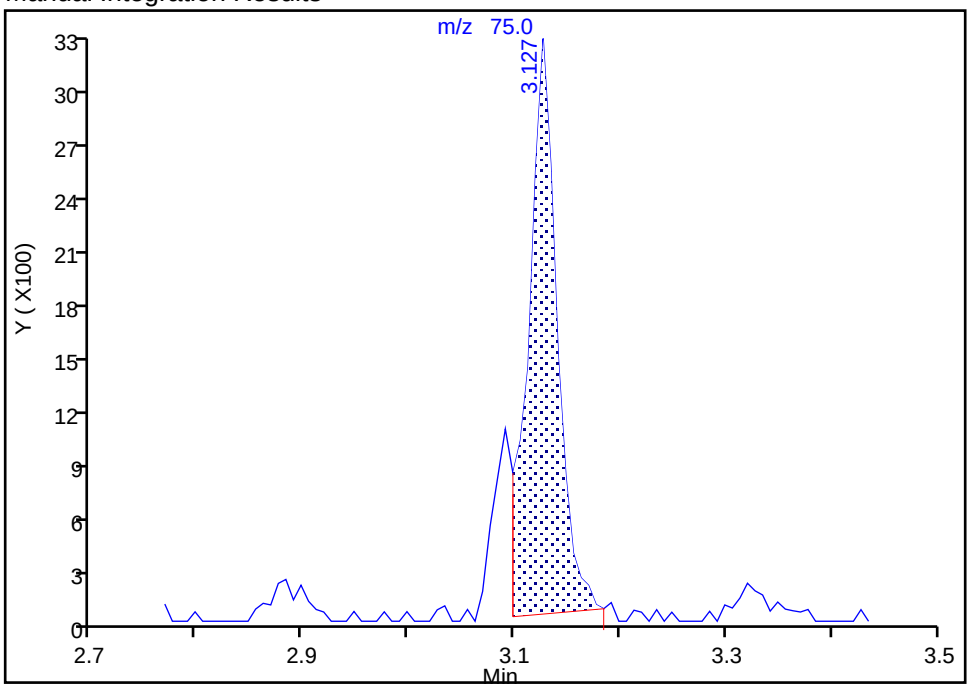
Processing Integration Results

RT: 3.03
Area: 64
Amount: 0.011900
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 6053
Amount: 1.093112
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:49:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

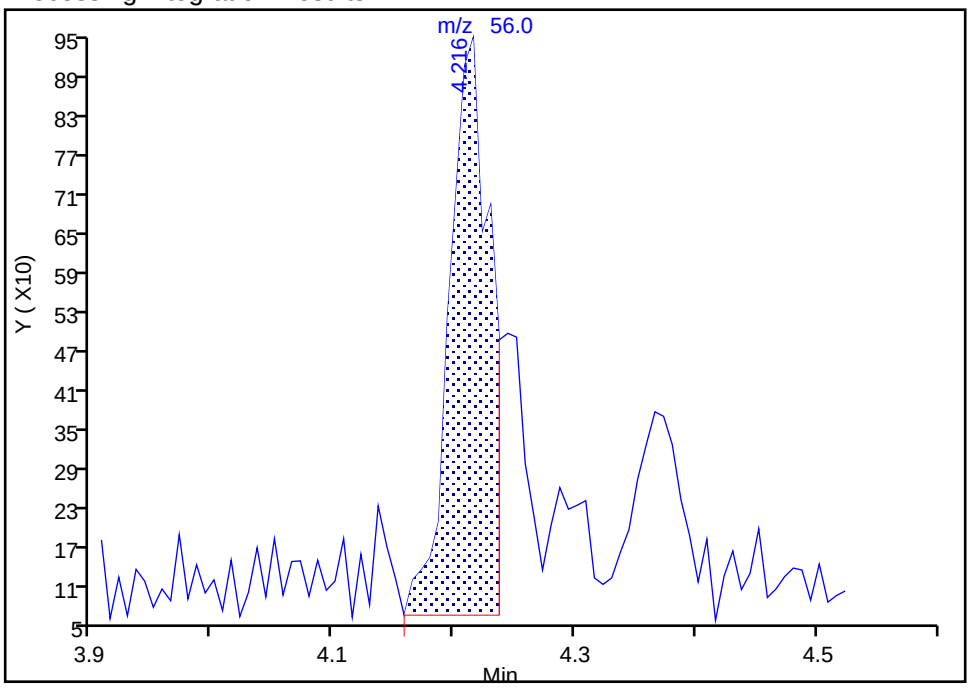
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

68 n-Butanol, CAS: 71-36-3

Signal: 1

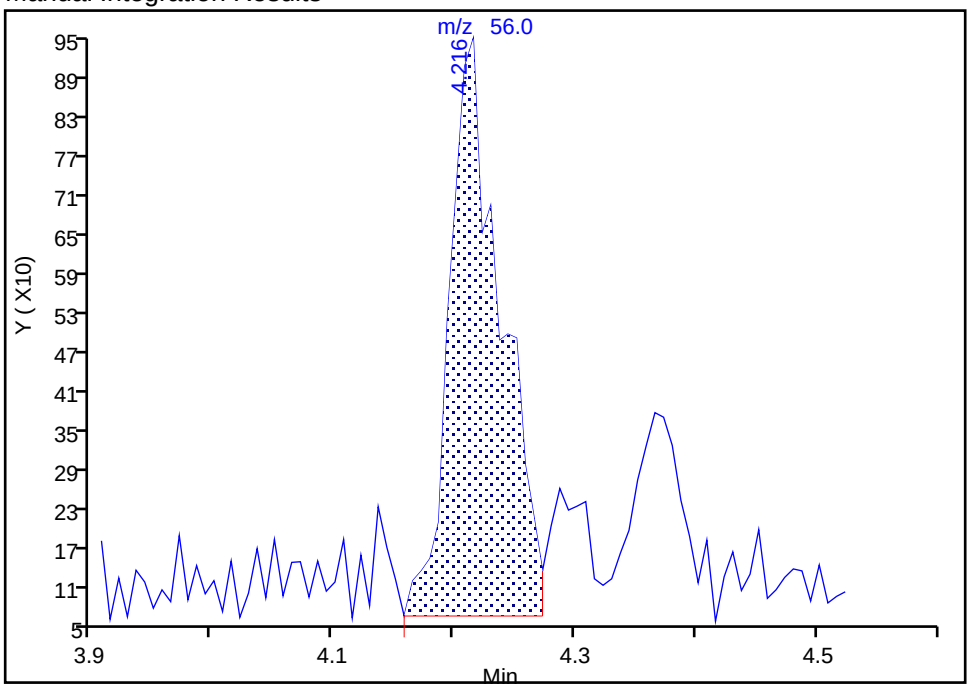
Processing Integration Results

RT: 4.22
Area: 2067
Amount: 18.401490
Amount Units: ug/l



Manual Integration Results

RT: 4.22
Area: 2629
Amount: 22.778426
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:49:51
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

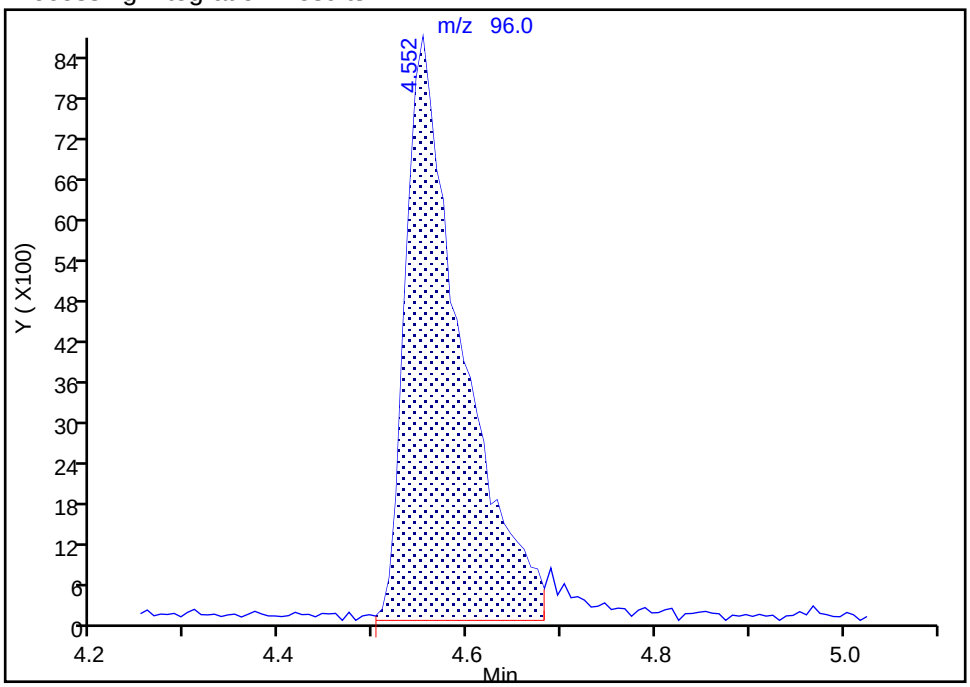
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 72 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

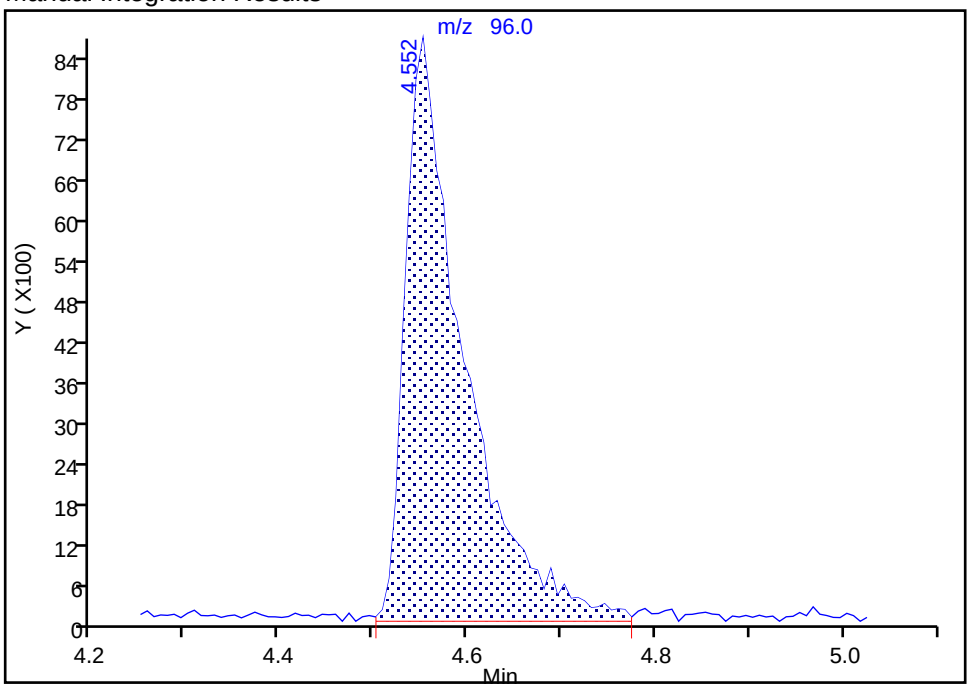
Processing Integration Results

RT: 4.55
Area: 35741
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 4.55
Area: 37422
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:51:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

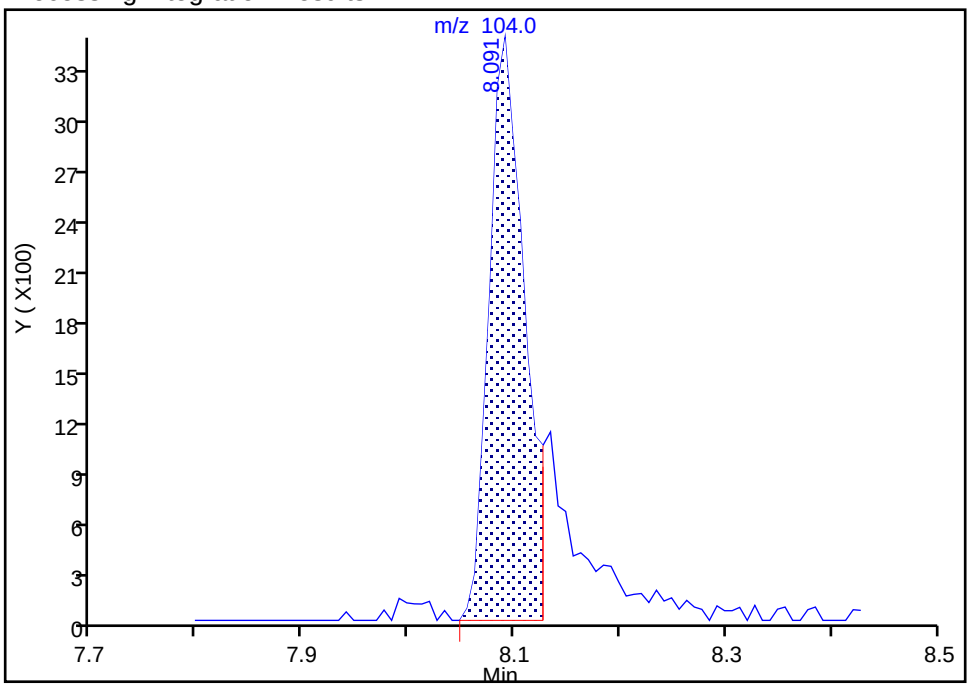
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

99 Styrene, CAS: 100-42-5

Signal: 1

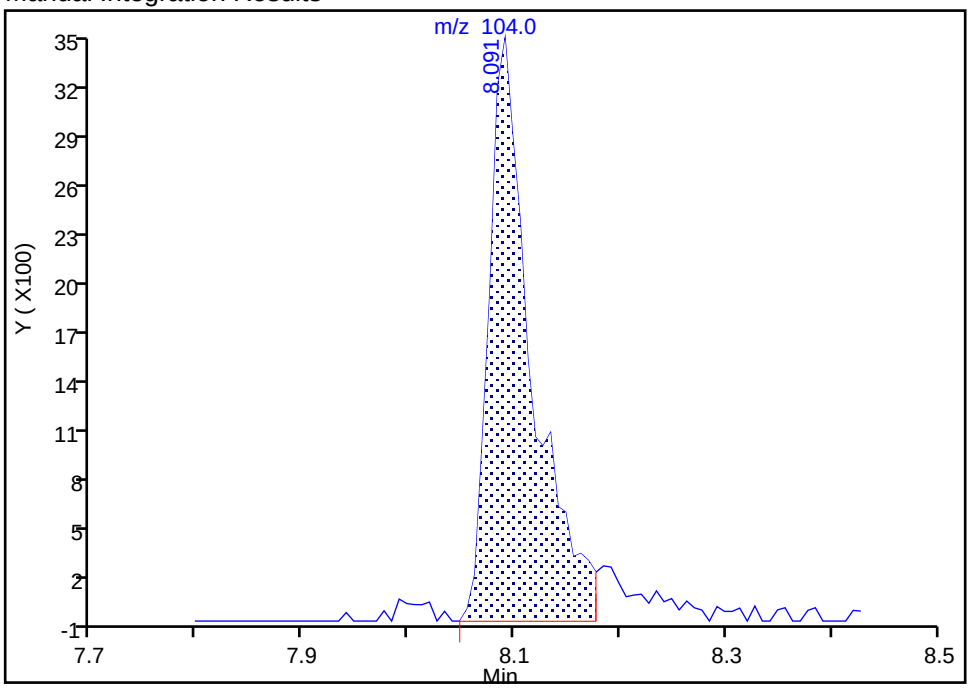
Processing Integration Results

RT: 8.09
Area: 8231
Amount: 0.760051
Amount Units: ug/l



Manual Integration Results

RT: 8.09
Area: 9923
Amount: 0.896285
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:50:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

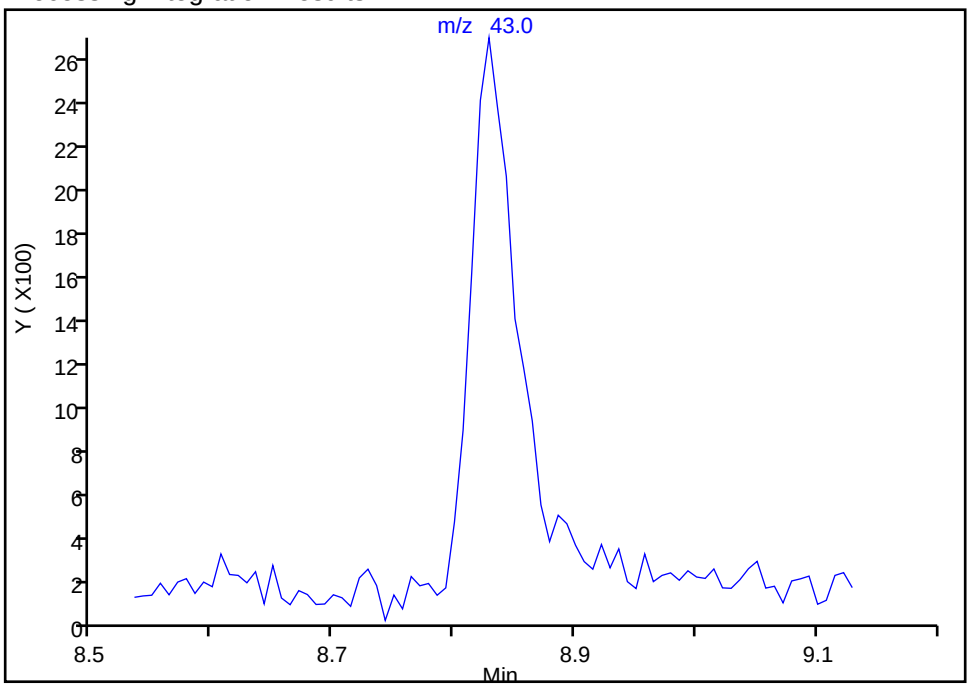
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

102 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

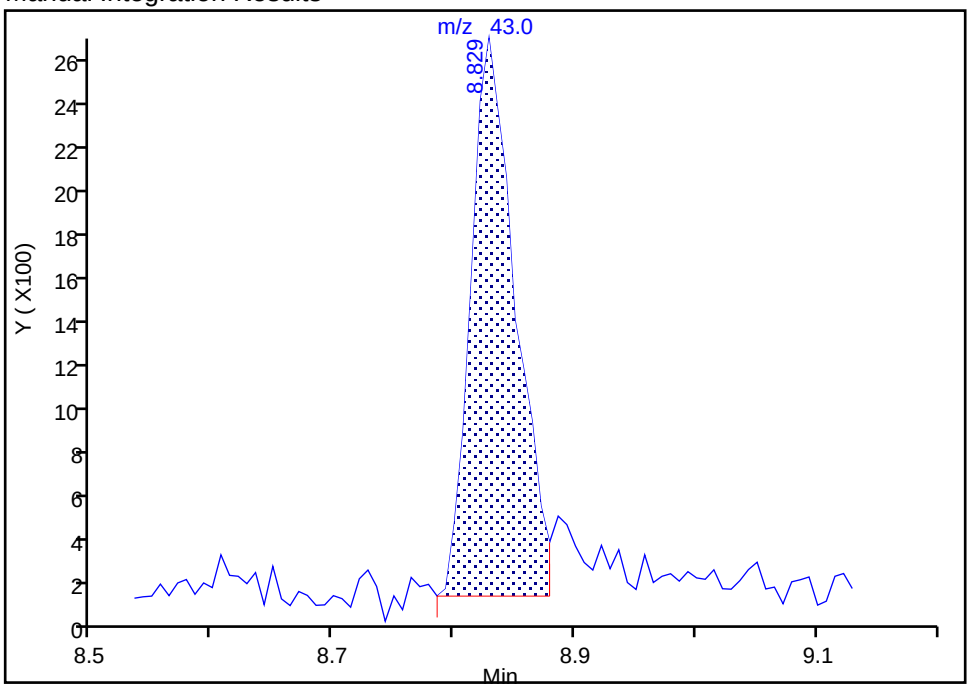
Not Detected
Expected RT: 8.81

Processing Integration Results



Manual Integration Results

RT: 8.83
Area: 6241
Amount: 0.778223
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:50:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

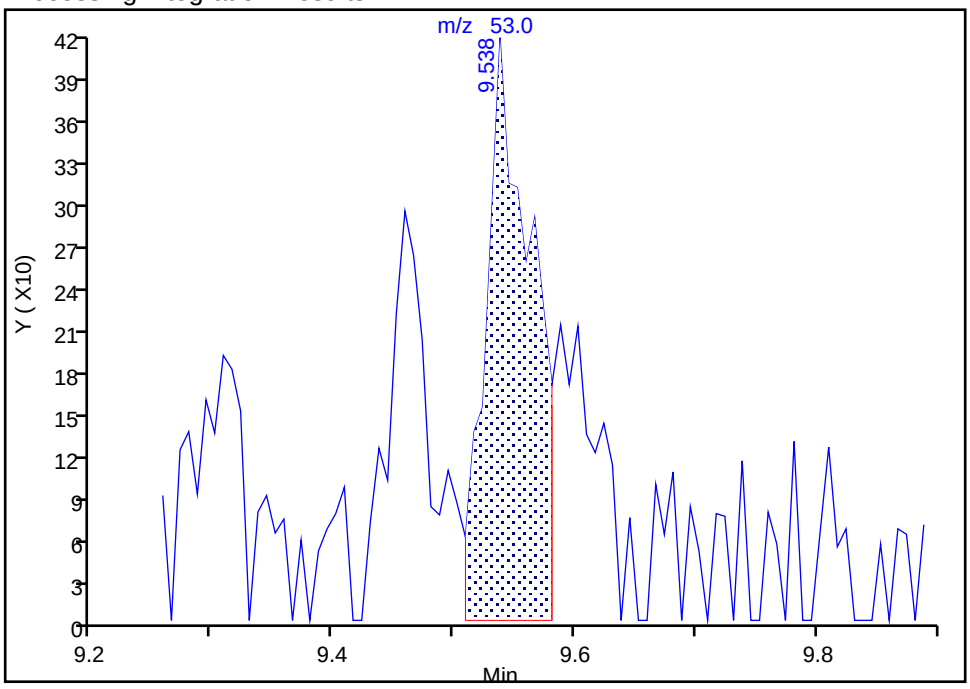
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43998.D
Injection Date: 20-Apr-2018 06:00:30 Instrument ID: CVOAMS13
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

111 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Signal: 1

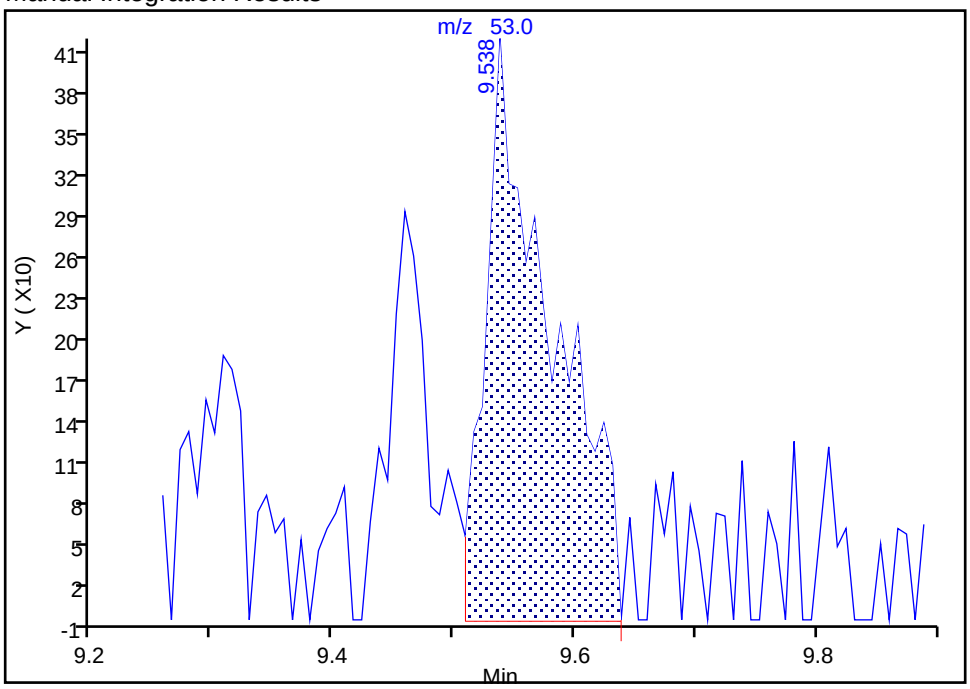
Processing Integration Results

RT: 9.54
Area: 1130
Amount: 0.740627
Amount Units: ug/l



Manual Integration Results

RT: 9.54
Area: 1612
Amount: 1.007600
Amount Units: ug/l



Reviewer: delpolitov, 23-Apr-2018 12:50:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43999.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Apr-2018 06:25:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0070689-011
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:04:45 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:19:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	90	71454	50.0	46.5	
2 Dichlorodifluoromethane	85	0.871	0.870	0.001	99	182080	50.0	39.3	
4 Chloromethane	50	0.985	0.985	0.000	99	195287	50.0	43.9	
5 Vinyl chloride	62	1.007	1.007	0.000	98	216410	50.0	43.3	
3 Butadiene	54	1.014	1.014	0.000	99	181216	50.0	41.1	
6 Bromomethane	94	1.164	1.164	0.000	98	95949	50.0	45.6	
7 Chloroethane	64	1.229	1.229	0.000	100	128059	50.0	45.0	
9 Pentane	72	1.300	1.300	0.000	96	57070	100.0	95.6	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	59	204746	50.0	41.9	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	314063	50.0	48.2	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	244188	50.0	50.3	
12 Ethyl ether	59	1.458	1.458	0.000	92	166208	50.0	50.8	
13 Ethanol	46	1.537	1.537	0.000	99	46273	2000.0	2066.5	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	87	217367	50.0	49.4	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	96	148561	50.0	50.1	
16 Carbon disulfide	76	1.580	1.580	0.000	100	580228	50.0	49.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.580	0.007	93	157119	50.0	51.2	
18 Iodomethane	142	1.637	1.644	-0.007	99	151223	50.0	41.0	
19 Cyclopentene	67	1.723	1.723	0.000	97	429126	50.0	50.8	
20 Acrolein	56	1.745	1.744	0.001	95	40327	100.0	104.8	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	106664	50.0	50.7	
22 Isopropyl alcohol	45	1.845	1.838	0.007	97	138824	500.0	464.6	
23 Methylene Chloride	84	1.881	1.880	0.001	98	188419	50.0	49.2	
24 Acetone	43	1.902	1.902	0.000	85	272733	250.0	218.0	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	99	171134	50.0	48.4	
26 Methyl acetate	43	1.981	1.981	0.000	100	291039	100.0	93.2	
27 Hexane	86	2.017	2.017	0.000	95	43114	50.0	45.9	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	91	567333	50.0	50.6	
* 29 TBA-d9 (IS)	65	2.060	2.060	0.000	0	346027	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.110	2.103	0.007	99	209939	500.0	486.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	99	268974	500.0	514.5	
32 Isopropyl ether	45	2.267	2.267	0.000	98	735634	50.0	50.7	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	93	161354	50.0	50.3	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	100	354459	50.0	51.2	
35 Acrylonitrile	53	2.375	2.375	0.000	94	821035	500.0	497.3	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	88	659685	50.0	50.8	
37 Vinyl acetate	43	2.511	2.511	0.000	100	967767	100.0	98.5	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	94	207112	50.0	50.7	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	98	299057	50.0	50.5	
40 Cyclohexane	56	2.833	2.826	0.007	94	355591	50.0	49.4	
41 Chlorobromomethane	128	2.833	2.833	0.000	80	92756	50.0	51.6	
42 Chloroform	83	2.898	2.898	0.000	98	337423	50.0	50.5	
43 Carbon tetrachloride	117	2.984	2.984	0.000	98	237292	50.0	50.9	
44 Ethyl acetate	70	2.998	2.998	0.000	99	48004	100.0	92.0	
45 Methyl acrylate	55	2.998	2.998	0.000	97	199879	50.0	51.6	
46 Tetrahydrofuran	42	3.005	3.005	0.000	94	179071	100.0	99.8	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	158217	50.0	49.7	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	99	290175	50.0	50.6	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	428265	250.0	250.0	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	99	125016	250.0	238.8	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	93	274013	50.0	48.0	
52 Isooctane	57	3.220	3.220	0.000	98	675178	50.0	47.8	
53 n-Heptane	57	3.313	3.313	0.000	94	188238	50.0	48.7	
54 Benzene	78	3.320	3.320	0.000	97	809378	50.0	51.4	
55 Propionitrile	54	3.342	3.342	0.000	97	308938	500.0	506.1	
56 Methacrylonitrile	67	3.363	3.363	0.000	95	884305	500.0	525.2	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	216299	50.0	49.7	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	99	620655	50.0	51.8	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	278958	50.0	47.0	
60 Isobutyl alcohol	43	3.557	3.557	0.000	98	247557	1250.0	1318.2	
61 t-Amyl alcohol	59	3.628	3.628	0.000	98	174564	500.0	503.9	
* 62 Fluorobenzene	96	3.671	3.664	0.007	98	601347	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	443322	50.0	51.4	
64 Methylcyclohexane	83	3.793	3.793	0.000	94	337227	50.0	49.0	
65 Trichloroethene	130	3.815	3.815	0.001	97	188758	50.0	50.7	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	91	558072	50.0	51.1	
67 Dibromomethane	93	4.187	4.187	0.000	96	121417	50.0	50.1	
68 n-Butanol	56	4.194	4.194	0.000	90	153000	1250.0	1360.7	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	89	212409	50.0	50.3	
70 Ethyl acrylate	55	4.352	4.359	-0.007	98	291736	50.0	54.3	
71 Dichlorobromomethane	83	4.359	4.359	0.000	99	268697	50.0	52.3	
* 72 1,4-Dioxane-d8	96	4.552	4.545	0.007	0	36410	1000.0	1000.0	
73 Methyl methacrylate	100	4.552	4.552	0.000	93	108770	100.0	105.7	
74 1,4-Dioxane	88	4.581	4.574	0.007	99	45781	1000.0	992.7	
75 n-Propyl acetate	43	4.710	4.710	0.000	99	328674	50.0	53.2	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	150408	50.0	53.2	
77 cis-1,3-Dichloropropene	75	5.004	5.004	0.000	97	328664	50.0	51.8	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	674097	50.0	49.5	
79 Toluene	91	5.262	5.261	0.001	93	860617	50.0	49.9	
80 Epichlorohydrin	57	5.290	5.290	0.000	99	441586	1000.0	1051.0	
81 2-Nitropropane	41	5.512	5.519	-0.007	98	118757	100.0	98.5	
82 Tetrachloroethene	166	5.691	5.691	0.000	97	187595	50.0	51.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	99	1125626	250.0	260.8	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	97	307192	50.0	52.5	
85 1,1,2-Trichloroethane	83	5.935	5.935	0.000	95	147292	50.0	50.1	
86 Ethyl methacrylate	69	6.021	6.021	0.000	91	287623	50.0	54.9	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	186781	50.0	52.5	
88 1,3-Dichloropropane	76	6.250	6.250	0.000	97	314563	50.0	52.0	
89 Ethylene Dibromide	107	6.386	6.386	0.000	99	176224	50.0	52.5	
90 n-Butyl acetate	43	6.730	6.730	0.000	98	360286	50.0	51.6	
91 2-Hexanone	43	6.794	6.794	0.000	98	798377	250.0	263.2	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	88	496918	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	91	515230	50.0	49.7	
94 Ethylbenzene	106	7.181	7.181	0.000	99	290591	50.0	50.7	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	94	175232	50.0	51.4	
96 m-Xylene & p-Xylene	106	7.396	7.403	-0.007	0	355653	50.0	51.3	
97 o-Xylene	106	7.991	7.991	0.000	93	345313	50.0	51.0	
98 Bromoform	173	8.055	8.055	0.000	94	121702	50.0	54.3	
99 Styrene	104	8.077	8.077	0.001	93	597422	50.0	52.6	
100 n-Butyl acrylate	73	8.399	8.399	0.000	96	163391	50.0	55.2	
101 Isopropylbenzene	105	8.478	8.478	0.000	96	921488	50.0	50.4	
102 Amyl acetate (mixed isomer	43	8.814	8.814	0.000	88	441887	50.0	53.6	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	86	193205	50.0	49.7	
104 Bromobenzene	156	8.958	8.958	0.000	95	218696	50.0	50.8	
105 N-Propylbenzene	91	9.108	9.108	0.000	98	1128549	50.0	50.8	
106 1,1,2,2-Tetrachloroethane	83	9.259	9.258	0.001	98	232849	50.0	50.0	
107 2-Chlorotoluene	91	9.287	9.287	0.000	96	772160	50.0	51.0	
108 4-Ethyltoluene	105	9.302	9.301	0.001	98	929191	50.0	51.4	
109 1,2,3-Trichloropropane	110	9.395	9.395	0.001	98	66450	50.0	50.1	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	92	786057	50.0	51.0	
111 trans-1,4-Dichloro-2-buten	53	9.516	9.516	0.000	87	79427	50.0	48.3	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	712015	50.0	51.0	
113 tert-Butylbenzene	119	9.925	9.925	0.000	93	651783	50.0	51.4	
114 Butyl Methacrylate	87	10.054	10.054	0.000	67	293387	50.0	54.2	
115 1,2,4-Trimethylbenzene	105	10.054	10.054	0.000	95	799429	50.0	52.1	
116 sec-Butylbenzene	105	10.218	10.218	0.000	99	997668	50.0	50.5	
117 1,3-Dichlorobenzene	146	10.476	10.483	-0.007	94	416653	50.0	51.1	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	841790	50.0	51.3	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	96	264326	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.634	0.000	93	425184	50.0	48.1	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	833284	50.0	51.6	
121 2,3-Dihydroindene	117	10.913	10.920	-0.007	94	803974	50.0	51.5	
122 Benzyl chloride	126	11.085	11.092	-0.007	97	85906	50.0	50.3	
123 p-Diethylbenzene	119	11.107	11.106	0.001	92	449197	50.0	51.5	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	801141	50.0	51.1	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	94	403858	50.0	51.9	
126 1,2,4,5-Tetramethylbenzene	119	12.203	12.202	0.001	97	738786	50.0	52.3	
127 1,2-Dibromo-3-Chloropropan	157	12.339	12.346	-0.007	95	42844	50.0	50.9	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	297545	50.0	50.8	
129 1,2,4-Trichlorobenzene	180	13.055	13.062	-0.007	94	261952	50.0	50.7	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	93	129274	50.0	51.0	
131 Naphthalene	128	13.356	13.356	0.000	99	580545	50.0	49.8	
132 1,2,3-Trichlorobenzene	180	13.521	13.528	-0.007	95	233644	50.0	50.0	
S 133 1,2-Dichloroethene, Total	100				0		100.0	99.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		100.0	104.3	
S 135 Xylenes, Total	100				0		100.0	102.3	
S 137 Total BTEX	1				0		250.0	254.3	

Reagents:

MIX 2 Hi_00069	Amount Added:	5.00	Units: uL		
ACROLEIN W_00075	Amount Added:	10.00	Units: uL		
Ethanol mix_00014	Amount Added:	5.00	Units: uL		
GAS Hi_00250	Amount Added:	5.00	Units: uL		
MIX I Hi_00093	Amount Added:	5.00	Units: uL		
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent	
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent	

Report Date: 23-Apr-2018 14:04:50 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43999.D

Injection Date: 20-Apr-2018 06:25:30 Instrument ID: CVOAMS13 Operator ID:

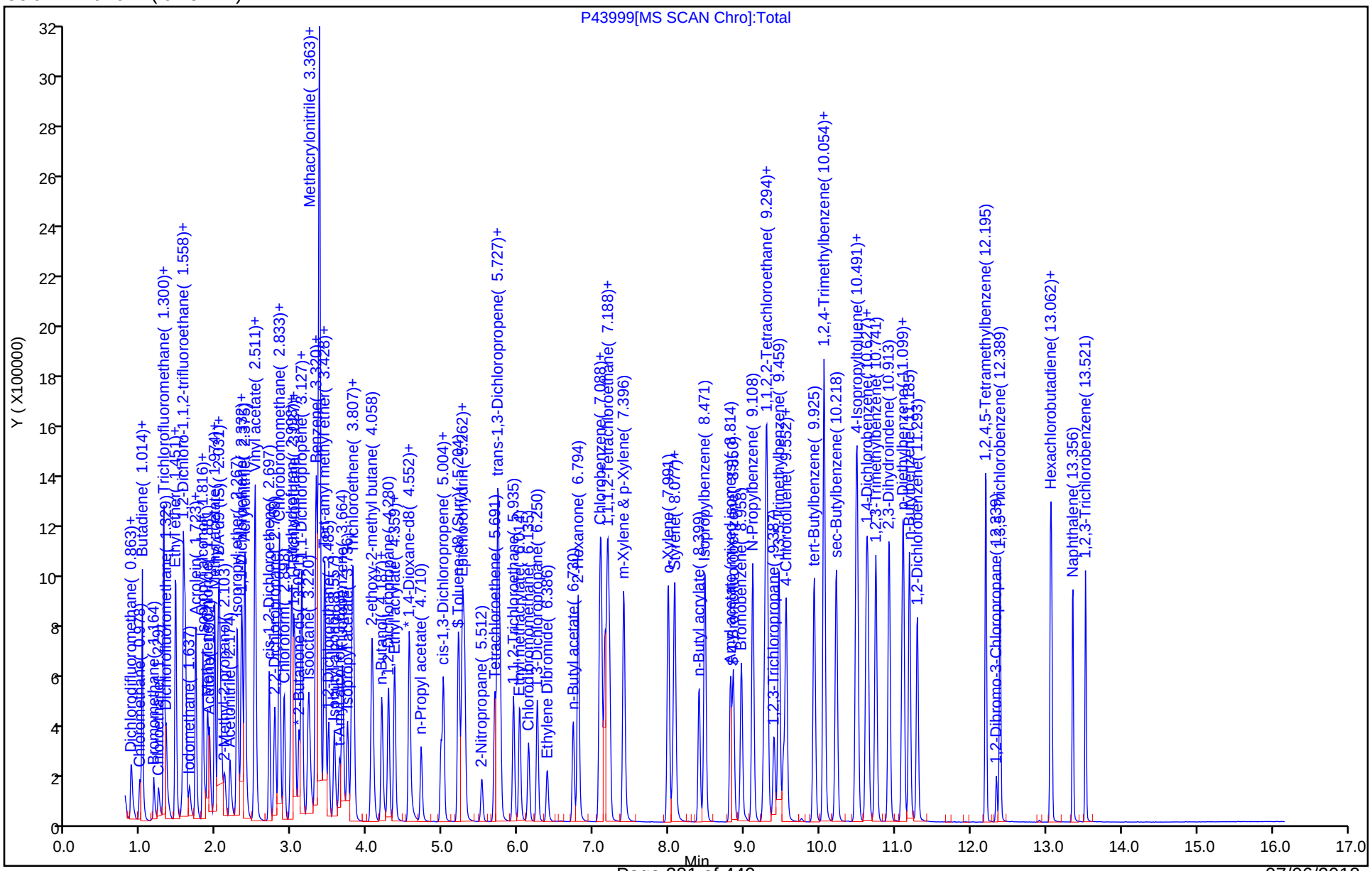
Lims ID: STD50 Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44000.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Apr-2018 06:50:30 ALS Bottle#: 11 Worklist Smp#: 12
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0070689-012
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:05:05 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:20:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.863	0.863	0.000	91	408033	200.0	250.3	
2 Dichlorodifluoromethane	85	0.871	0.870	0.001	99	1074361	200.0	218.7	
4 Chloromethane	50	0.978	0.985	-0.007	99	945477	200.0	200.6	
5 Vinyl chloride	62	1.007	1.007	0.000	99	1015313	200.0	191.7	
3 Butadiene	54	1.021	1.014	0.007	97	984387	200.0	210.7	
6 Bromomethane	94	1.164	1.164	0.000	98	461494	200.0	213.2	
7 Chloroethane	64	1.229	1.229	0.000	100	512041	200.0	169.6	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	98	1081053	200.0	208.9	
9 Pentane	72	1.300	1.300	0.000	96	271627	400.0	438.7	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	1341514	200.0	194.4	
11 2-Methyl-1,3-butadiene	67	1.458	1.451	0.007	96	1071691	200.0	208.2	
12 Ethyl ether	59	1.458	1.458	0.000	78	686721	200.0	198.1	
13 Ethanol	46	1.537	1.537	0.000	99	188501	8000.0	8113.2	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	96	626559	200.0	199.2	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	86	896625	200.0	192.4	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.580	0.007	96	676939	200.0	208.2	
16 Carbon disulfide	76	1.580	1.580	0.000	100	2509366	200.0	201.7	
18 Iodomethane	142	1.637	1.644	-0.007	99	779344	200.0	205.3	
19 Cyclopentene	67	1.723	1.723	0.000	97	1847111	200.0	206.2	
20 Acrolein	56	1.744	1.744	0.000	94	96566	200.0	241.9	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	428968	200.0	192.4	
22 Isopropyl alcohol	45	1.845	1.838	0.007	97	567619	2000.0	1830.7	
23 Methylene Chloride	84	1.881	1.880	0.001	97	769269	200.0	189.5	
24 Acetone	43	1.909	1.902	0.007	85	1108439	1000.0	861.2	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	98	708011	200.0	189.0	
26 Methyl acetate	43	1.981	1.981	0.000	99	1309468	400.0	395.6	
27 Hexane	86	2.031	2.017	0.014	92	206826	200.0	207.6	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	86	2366496	200.0	199.1	
* 29 TBA-d9 (IS)	65	2.067	2.060	0.007	0	359034	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.110	2.103	0.007	99	861495	2000.0	1925.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	98	1120870	2000.0	2066.3	
32 Isopropyl ether	45	2.282	2.267	0.015	97	3058022	200.0	198.7	
33 2-Chloro-1,3-butadiene	88	2.339	2.325	0.014	94	699283	200.0	205.6	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	1424431	200.0	194.2	
35 Acrylonitrile	53	2.375	2.375	0.000	94	3477210	2000.0	1986.9	
36 Tert-butyl ethyl ether	59	2.511	2.504	0.007	88	2764072	200.0	200.8	
37 Vinyl acetate	43	2.518	2.511	0.007	100	4346516	400.0	417.3	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	94	812824	200.0	187.9	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	98	1209068	200.0	192.6	
40 Cyclohexane	56	2.840	2.826	0.014	95	1601535	200.0	209.8	
41 Chlorobromomethane	128	2.833	2.833	0.000	96	355869	200.0	186.8	
42 Chloroform	83	2.891	2.898	-0.008	98	1359391	200.0	191.9	
43 Carbon tetrachloride	117	2.991	2.984	0.007	98	1023213	200.0	207.0	
45 Methyl acrylate	55	3.005	2.998	0.007	97	847640	200.0	206.5	
44 Ethyl acetate	70	2.998	2.998	0.000	99	200967	400.0	374.4	
46 Tetrahydrofuran	42	3.005	3.005	0.000	95	740178	400.0	401.2	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	161669	50.0	47.9	
48 1,1,1-Trichloroethane	97	3.041	3.034	0.007	99	1204071	200.0	197.9	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	440530	250.0	250.0	
51 1,1-Dichloropropene	75	3.141	3.127	0.014	94	1158068	200.0	191.5	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	100	532357	1000.0	988.5	
52 Isooctane	57	3.227	3.220	0.007	98	3009091	200.0	200.9	
53 n-Heptane	57	3.313	3.313	0.000	95	869499	200.0	212.3	
54 Benzene	78	3.335	3.320	0.015	97	3317155	200.0	204.5	
55 Propionitrile	54	3.356	3.342	0.014	95	1297078	2000.0	2047.9	
56 Methacrylonitrile	67	3.370	3.363	0.007	94	3564171	2000.0	1997.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.435	3.428	0.007	0	226432	50.0	49.0	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	99	2584186	200.0	203.6	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	1127717	200.0	179.4	
60 Isobutyl alcohol	43	3.564	3.557	0.007	97	1059163	5000.0	5435.7	
61 t-Amyl alcohol	59	3.635	3.628	0.007	99	709899	2000.0	1975.0	
* 62 Fluorobenzene	96	3.671	3.664	0.007	98	637439	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	99	1875558	200.0	205.0	
64 Methylcyclohexane	83	3.800	3.793	0.007	94	1489650	200.0	204.2	
65 Trichloroethene	130	3.822	3.815	0.008	97	779143	200.0	197.5	
66 2-ethoxy-2-methyl butane	59	4.065	4.058	0.007	90	2308302	200.0	199.3	
67 Dibromomethane	93	4.187	4.187	0.000	95	508107	200.0	197.6	
68 n-Butanol	56	4.194	4.194	0.000	90	647153	5000.0	5547.0	
69 1,2-Dichloropropane	63	4.287	4.280	0.007	89	903424	200.0	201.9	
71 Dichlorobromomethane	83	4.366	4.359	0.007	99	1129194	200.0	207.4	
70 Ethyl acrylate	55	4.359	4.359	0.000	98	1227607	200.0	215.4	
* 72 1,4-Dioxane-d8	96	4.552	4.545	0.007	0	35183	1000.0	1000.0	
73 Methyl methacrylate	100	4.560	4.552	0.008	93	458644	400.0	420.6	
74 1,4-Dioxane	88	4.574	4.574	0.000	99	187320	4000.0	4203.6	
75 n-Propyl acetate	43	4.710	4.710	0.000	99	1393729	200.0	213.0	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	614004	200.0	204.9	
77 cis-1,3-Dichloropropene	75	5.011	5.004	0.007	97	1375634	200.0	210.5	
$ 78 Toluene-d8 (Surr)	98	5.211	5.204	0.007	98	702842	50.0	50.2	
79 Toluene	91	5.261	5.261	0.000	93	3463017	200.0	194.9	
80 Epichlorohydrin	57	5.290	5.290	0.000	100	1844275	4000.0	4267.4	
81 2-Nitropropane	41	5.519	5.519	0.000	98	517244	400.0	404.5	
82 Tetrachloroethene	166	5.691	5.691	0.000	96	759626	200.0	203.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.734	5.727	0.007	98	4630462	1000.0	1043.1	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	95	1308875	200.0	217.4	
85 1,1,2-Trichloroethane	83	5.942	5.935	0.007	95	626671	200.0	207.1	
86 Ethyl methacrylate	69	6.021	6.021	0.000	91	1207322	200.0	217.3	
87 Chlorodibromomethane	129	6.143	6.135	0.008	98	810632	200.0	221.2	
88 1,3-Dichloropropane	76	6.257	6.250	0.007	97	1306565	200.0	209.5	
89 Ethylene Dibromide	107	6.386	6.386	0.000	98	749225	200.0	216.5	
90 n-Butyl acetate	43	6.730	6.730	0.000	98	1533404	200.0	213.4	
91 2-Hexanone	43	6.794	6.794	0.000	98	3267257	1000.0	1047.1	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	511729	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	91	2084629	200.0	195.2	
94 Ethylbenzene	106	7.188	7.181	0.007	99	1172555	200.0	198.7	
95 1,1,1,2-Tetrachloroethane	131	7.217	7.210	0.007	95	734239	200.0	209.2	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	1455206	200.0	203.9	
97 o-Xylene	106	7.991	7.991	0.000	93	1393246	200.0	199.7	
98 Bromoform	173	8.055	8.055	0.000	94	530193	200.0	229.6	
99 Styrene	104	8.077	8.077	0.001	92	2455571	200.0	210.0	
100 n-Butyl acrylate	73	8.399	8.399	0.000	96	689046	200.0	226.1	
101 Isopropylbenzene	105	8.478	8.478	0.000	97	3721245	200.0	197.8	
102 Amyl acetate (mixed isomer	43	8.814	8.814	0.000	89	1848711	200.0	217.2	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	85	199073	50.0	49.8	
104 Bromobenzene	156	8.958	8.958	0.000	95	886838	200.0	199.7	
105 N-Propylbenzene	91	9.115	9.108	0.007	98	4569893	200.0	199.4	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.258	0.000	99	977130	200.0	203.5	
107 2-Chlorotoluene	91	9.287	9.287	0.000	97	3101153	200.0	198.8	
108 4-Ethyltoluene	105	9.301	9.301	0.000	98	3777461	200.0	202.8	
109 1,2,3-Trichloropropane	110	9.395	9.395	0.001	98	280467	200.0	205.0	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	92	3167369	200.0	199.2	
111 trans-1,4-Dichloro-2-buten	53	9.516	9.516	0.000	91	340279	200.0	200.4	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	2916738	200.0	202.7	
113 tert-Butylbenzene	119	9.925	9.925	0.000	94	2633834	200.0	201.2	
115 1,2,4-Trimethylbenzene	105	10.061	10.054	0.007	95	3190207	200.0	201.7	
114 Butyl Methacrylate	87	10.061	10.054	0.007	67	1221473	200.0	218.7	
116 sec-Butylbenzene	105	10.218	10.218	0.000	98	4069594	200.0	199.6	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	94	1696105	200.0	201.5	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	3445255	200.0	203.7	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	272618	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.641	10.634	0.007	93	1743140	200.0	191.3	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	3334033	200.0	200.3	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	3238705	200.0	201.3	
122 Benzyl chloride	126	11.092	11.092	0.000	97	380450	200.0	216.1	
123 p-Diethylbenzene	119	11.114	11.106	0.008	92	1859149	200.0	206.6	
124 n-Butylbenzene	91	11.192	11.185	0.007	98	3323339	200.0	205.3	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	94	1626557	200.0	202.6	
126 1,2,4,5-Tetramethylbenzene	119	12.202	12.202	0.000	97	3052145	200.0	209.4	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	96	186942	200.0	215.1	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	1232451	200.0	204.1	
129 1,2,4-Trichlorobenzene	180	13.055	13.062	-0.007	94	1105553	200.0	207.4	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	92	531050	200.0	203.0	
131 Naphthalene	128	13.356	13.356	0.000	99	2552213	200.0	212.1	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	95	976745	200.0	202.6	
S 133 1,2-Dichloroethene, Total	100				0		400.0	376.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		400.0	427.9	
S 135 Xylenes, Total	100				0		400.0	403.6	
S 137 Total BTEX	1				0		1000.0	1001.7	

Reagents:

MIX 2 Hi_00069	Amount Added:	20.00	Units: uL	
ACROLEIN W_00075	Amount Added:	20.00	Units: uL	
Ethanol mix_00014	Amount Added:	20.00	Units: uL	
GAS Hi_00250	Amount Added:	20.00	Units: uL	
MIX I Hi_00093	Amount Added:	20.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

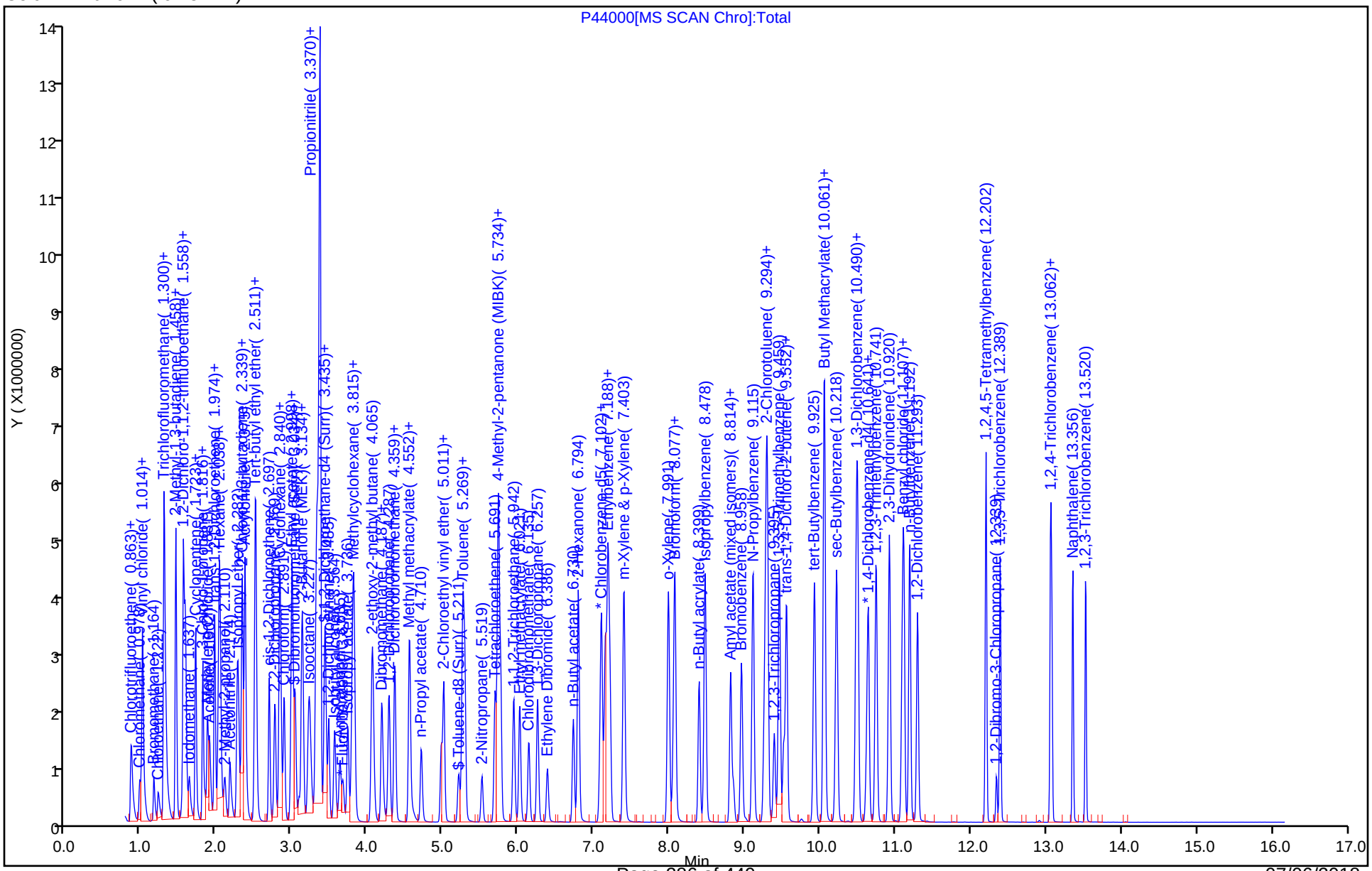
Report Date: 23-Apr-2018 14:05:08 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44000.D

Injection Date:	20-Apr-2018 06:50:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	12
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	11
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Apr-2018 07:16:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0070689-013
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 23-Apr-2018 14:05:23 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: desais Date: 20-Apr-2018 08:21:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.863	-0.007	90	1022651	500.0	602.8	
2 Dichlorodifluoromethane	85	0.870	0.870	0.000	99	2643644	500.0	517.2	
4 Chloromethane	50	0.985	0.985	0.000	98	2533711	500.0	516.6	
5 Vinyl chloride	62	1.007	1.007	0.000	99	2534101	500.0	459.9	
3 Butadiene	54	1.021	1.014	0.007	95	2436607	500.0	501.2	
6 Bromomethane	94	1.164	1.164	0.000	98	1086465	500.0	479.2	
7 Chloroethane	64	1.221	1.229	-0.008	99	780609	500.0	248.6	
9 Pentane	72	1.293	1.300	-0.007	96	541455	1000.0	815.7	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	96	2456172	500.0	456.2	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	3162162	500.0	440.3	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	2568981	500.0	479.8	
12 Ethyl ether	59	1.458	1.458	0.000	93	1689012	500.0	468.2	
13 Ethanol	46	1.558	1.537	0.021	99	489117	20000	19636	
15 1,2-Dichloro-1,1,2-trifluo	67	1.565	1.558	0.007	82	2270362	500.0	468.2	
14 1,1-Dichloroethene	96	1.565	1.558	0.007	96	1627927	500.0	497.3	
16 Carbon disulfide	76	1.572	1.580	-0.008	100	6319407	500.0	488.2	
17 1,1,2-Trichloro-1,2,2-trif	101	1.580	1.580	0.000	95	1652510	500.0	488.5	
18 Iodomethane	142	1.637	1.644	-0.007	100	1869659	500.0	499.2	
19 Cyclopentene	67	1.716	1.723	-0.007	97	4652524	500.0	499.1	
20 Acrolein	56	1.744	1.744	0.000	93	213013	400.0	497.7	
21 3-Chloro-1-propene	76	1.823	1.816	0.007	91	997981	500.0	430.3	
22 Isopropyl alcohol	45	1.866	1.838	0.028	98	1478313	5000.0	4447.3	
23 Methylene Chloride	84	1.880	1.880	0.000	98	1983949	500.0	469.7	
24 Acetone	43	1.909	1.902	0.007	86	2720524	2500.0	2018.2	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	99	1809744	500.0	464.3	
26 Methyl acetate	43	1.981	1.981	0.000	100	3533036	1000.0	1025.9	
27 Hexane	86	2.031	2.017	0.014	82	526596	500.0	507.9	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	96	5968756	500.0	482.5	
* 29 TBA-d9 (IS)	65	2.081	2.060	0.021	0	384918	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.124	2.103	0.021	99	2283905	5000.0	4761.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.181	2.174	0.007	98	2612449	5000.0	4492.2	
32 Isopropyl ether	45	2.289	2.267	0.022	97	7843897	500.0	489.8	
33 2-Chloro-1,3-butadiene	88	2.332	2.325	0.007	93	1721606	500.0	486.5	
34 1,1-Dichloroethane	63	2.346	2.339	0.007	100	3676656	500.0	481.8	
35 Acrylonitrile	53	2.382	2.375	0.007	94	8587568	5000.0	4716.0	
36 Tert-butyl ethyl ether	59	2.518	2.504	0.014	88	7038025	500.0	491.5	
37 Vinyl acetate	43	2.518	2.511	0.007	100	9581862	1000.0	884.2	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	94	2201969	500.0	489.1	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	98	2885315	500.0	441.8	
40 Cyclohexane	56	2.840	2.826	0.014	94	4069860	500.0	512.5	
41 Chlorobromomethane	128	2.840	2.833	0.007	60	895232	500.0	451.6	
42 Chloroform	83	2.898	2.898	0.000	98	3476175	500.0	471.6	
43 Carbon tetrachloride	117	2.991	2.984	0.007	98	2566821	500.0	499.2	
44 Ethyl acetate	70	3.005	2.998	0.007	99	511492	1000.0	909.9	
45 Methyl acrylate	55	3.005	2.998	0.007	99	2150651	500.0	503.4	
46 Tetrahydrofuran	42	3.012	3.005	0.007	94	1880466	1000.0	973.2	
$ 47 Dibromofluoromethane (Surr	113	3.034	3.027	0.007	95	160561	50.0	45.7	
48 1,1,1-Trichloroethane	97	3.041	3.034	0.007	97	3057022	500.0	482.9	
* 49 2-Butanone-d5	46	3.098	3.091	0.007	0	461386	250.0	250.0	
50 2-Butanone (MEK)	72	3.134	3.127	0.007	99	1368933	2500.0	2426.9	
51 1,1-Dichloropropene	75	3.141	3.127	0.014	94	2941387	500.0	467.5	
52 Isooctane	57	3.234	3.220	0.014	99	7434537	500.0	477.0	
53 n-Heptane	57	3.320	3.313	0.007	82	2085090	500.0	489.3	
54 Benzene	78	3.342	3.320	0.022	96	8458892	500.0	500.8	
55 Propionitrile	54	3.377	3.342	0.035	97	3244698	5000.0	4778.5	
56 Methacrylonitrile	67	3.385	3.363	0.022	94	8680209	5000.0	4674.2	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.442	3.428	0.014	0	235968	50.0	49.1	
58 Tert-amyl methyl ether	73	3.442	3.435	0.007	98	6648506	500.0	503.5	
59 1,2-Dichloroethane	62	3.492	3.485	0.007	97	2887076	500.0	441.4	
60 Isobutyl alcohol	43	3.578	3.557	0.021	97	2789500	12500	13353	
61 t-Amyl alcohol	59	3.650	3.628	0.022	99	1842666	5000.0	4781.7	
* 62 Fluorobenzene	96	3.678	3.664	0.014	98	663249	50.0	50.0	
63 Isopropyl acetate	43	3.743	3.736	0.007	98	4854972	500.0	510.1	
64 Methylcyclohexane	83	3.807	3.793	0.014	94	3941042	500.0	519.1	
65 Trichloroethene	130	3.829	3.815	0.015	96	1976792	500.0	481.5	
66 2-ethoxy-2-methyl butane	59	4.072	4.058	0.014	91	5919647	500.0	491.2	
67 Dibromomethane	93	4.187	4.187	0.000	95	1327513	500.0	496.3	
68 n-Butanol	56	4.216	4.194	0.022	90	1710224	12500	13673	
69 1,2-Dichloropropane	63	4.287	4.280	0.007	89	2352125	500.0	505.2	
70 Ethyl acrylate	55	4.359	4.359	0.000	98	3177974	500.0	536.0	
71 Dichlorobromomethane	83	4.366	4.359	0.007	99	2931417	500.0	517.4	
* 72 1,4-Dioxane-d8	96	4.559	4.545	0.014	0	35052	1000.0	1000.0	
73 Methyl methacrylate	100	4.559	4.552	0.007	93	1151908	1000.0	1015.3	
74 1,4-Dioxane	88	4.588	4.574	0.014	99	493984	10000	11127	
75 n-Propyl acetate	43	4.717	4.710	0.007	99	3604614	500.0	529.4	
76 2-Chloroethyl vinyl ether	63	4.982	4.975	0.007	96	1551015	500.0	497.4	
77 cis-1,3-Dichloropropene	75	5.018	5.004	0.014	97	3557150	500.0	522.9	
$ 78 Toluene-d8 (Surr)	98	5.211	5.204	0.007	98	705324	50.0	48.3	
79 Toluene	91	5.269	5.261	0.008	93	8811911	500.0	476.4	
80 Epichlorohydrin	57	5.304	5.290	0.014	100	4707180	10000	10400	
81 2-Nitropropane	41	5.526	5.519	0.007	97	1341328	1000.0	1008.3	
82 Tetrachloroethene	166	5.698	5.691	0.007	96	1950888	500.0	502.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.748	5.727	0.021	98	11621118	2500.0	2499.7	
84 trans-1,3-Dichloropropene	75	5.777	5.763	0.014	96	3360024	500.0	536.0	
85 1,1,2-Trichloroethane	83	5.949	5.935	0.014	95	1633290	500.0	518.5	
86 Ethyl methacrylate	69	6.028	6.021	0.007	91	3165446	500.0	547.5	
87 Chlorodibromomethane	129	6.150	6.135	0.015	98	2149619	500.0	563.5	
88 1,3-Dichloropropane	76	6.264	6.250	0.014	97	3410101	500.0	525.4	
89 Ethylene Dibromide	107	6.393	6.386	0.007	98	1958409	500.0	543.7	
90 n-Butyl acetate	43	6.737	6.730	0.007	98	3995867	500.0	534.2	
91 2-Hexanone	43	6.809	6.794	0.015	98	8312258	2500.0	2543.4	
* 92 Chlorobenzene-d5	117	7.088	7.081	0.007	90	532726	50.0	50.0	
93 Chlorobenzene	112	7.109	7.102	0.007	91	5368823	500.0	482.8	
94 Ethylbenzene	106	7.203	7.181	0.022	99	3017188	500.0	491.2	
95 1,1,1,2-Tetrachloroethane	131	7.224	7.210	0.014	95	1895228	500.0	518.7	
96 m-Xylene & p-Xylene	106	7.410	7.403	0.007	0	3777529	500.0	508.4	
97 o-Xylene	106	7.998	7.991	0.007	93	3639479	500.0	501.1	
98 Bromoform	173	8.062	8.055	0.007	94	1406611	500.0	585.0	
99 Styrene	104	8.084	8.077	0.008	93	6319001	500.0	519.1	
100 n-Butyl acrylate	73	8.406	8.399	0.007	96	1781568	500.0	561.6	
101 Isopropylbenzene	105	8.485	8.478	0.007	97	9696150	500.0	495.2	
102 Amyl acetate (mixed isomer	43	8.821	8.814	0.007	89	4728386	500.0	530.2	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	85	202108	50.0	48.5	
104 Bromobenzene	156	8.965	8.958	0.007	95	2291767	500.0	492.4	
105 N-Propylbenzene	91	9.122	9.108	0.014	98	11835023	500.0	492.6	
106 1,1,2,2-Tetrachloroethane	83	9.273	9.258	0.015	99	2487868	500.0	494.3	
107 2-Chlorotoluene	91	9.294	9.287	0.007	97	7951482	500.0	486.3	
108 4-Ethyltoluene	105	9.316	9.301	0.015	98	9470008	500.0	485.1	
109 1,2,3-Trichloropropane	110	9.402	9.395	0.008	98	731165	500.0	509.8	
110 1,3,5-Trimethylbenzene	105	9.473	9.459	0.014	92	8289503	500.0	497.3	
111 trans-1,4-Dichloro-2-buten	53	9.531	9.516	0.015	88	905549	500.0	509.0	
112 4-Chlorotoluene	91	9.566	9.552	0.014	99	7579213	500.0	502.5	
113 tert-Butylbenzene	119	9.939	9.925	0.014	93	6895175	500.0	502.6	
114 Butyl Methacrylate	87	10.068	10.054	0.014	67	3060497	500.0	522.7	
115 1,2,4-Trimethylbenzene	105	10.068	10.054	0.014	95	8035938	500.0	484.9	
116 sec-Butylbenzene	105	10.233	10.218	0.015	98	10662268	500.0	499.0	
117 1,3-Dichlorobenzene	146	10.490	10.483	0.007	96	4291887	500.0	486.6	
118 4-Isopropyltoluene	119	10.512	10.498	0.014	99	8901205	500.0	502.1	
* 119 1,4-Dichlorobenzene-d4	152	10.626	10.612	0.014	97	285721	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.655	10.634	0.021	93	4505295	500.0	471.8	
138 1,2,3-Trimethylbenzene	105	10.755	10.741	0.014	99	8515754	500.0	488.1	
121 2,3-Dihydroindene	117	10.934	10.920	0.014	94	8218681	500.0	487.4	
122 Benzyl chloride	126	11.099	11.092	0.007	97	896498	500.0	486.0	
123 p-Diethylbenzene	119	11.121	11.106	0.015	92	4681364	500.0	496.4	
124 n-Butylbenzene	91	11.200	11.185	0.015	99	8670529	500.0	511.2	
125 1,2-Dichlorobenzene	146	11.307	11.293	0.014	94	4191809	500.0	498.1	
126 1,2,4,5-Tetramethylbenzene	119	12.210	12.202	0.008	97	7659157	500.0	501.5	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	97	484865	500.0	532.4	
128 1,3,5-Trichlorobenzene	180	12.396	12.389	0.007	96	3061743	500.0	483.7	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	94	2785805	500.0	498.6	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	96	1333506	500.0	486.5	
131 Naphthalene	128	13.356	13.356	0.000	99	6658897	500.0	528.0	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	95	2505806	500.0	496.0	
S 133 1,2-Dichloroethene, Total	100				0		1000.0	953.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		1000.0	1058.9	
S 135 Xylenes, Total	100				0		1000.0	1009.5	
S 137 Total BTEX	1				0		2500.0	2477.9	

Reagents:

MIX 2 Hi_00069	Amount Added:	50.00	Units: uL	
ACROLEIN W_00075	Amount Added:	40.00	Units: uL	
Ethanol mix_00014	Amount Added:	50.00	Units: uL	
GAS Hi_00250	Amount Added:	50.00	Units: uL	
MIX I Hi_00093	Amount Added:	50.00	Units: uL	
8260ISNEW_00121	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00169	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 23-Apr-2018 14:05:26 Chrom Revision: 2.2 17-Apr-2018 19:19:24

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Injection Date: 20-Apr-2018 07:16:30 Instrument ID: CVOAMS13 Operator ID:

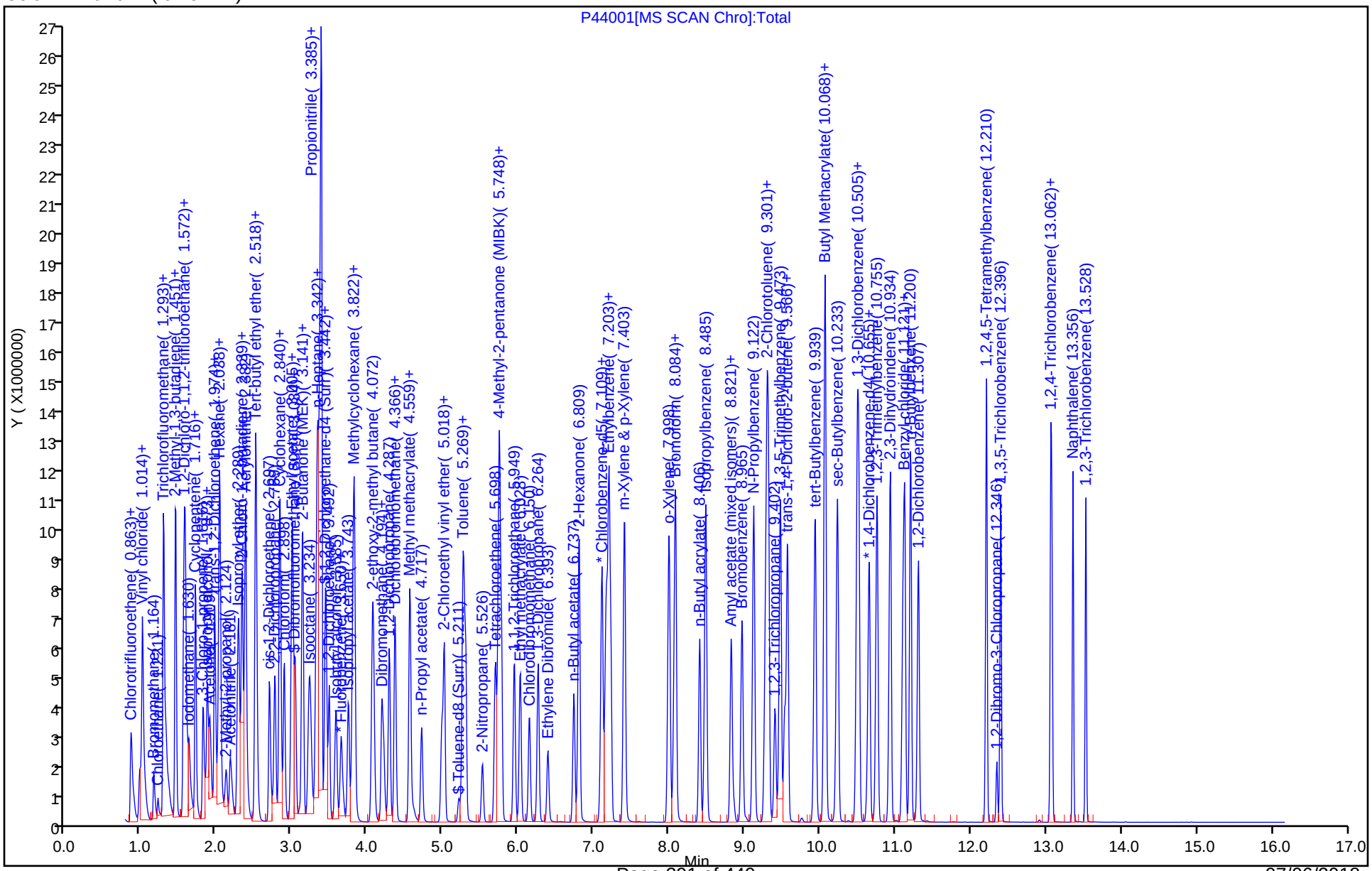
Lims ID: STD500 Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 12

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-521981/14	D50578.D
Level 2	STD5 460-521981/15	D50579.D
Level 3	STD20 460-521981/6	D50570.D
Level 4	STD50 460-521981/7	D50571.D
Level 5	STD200 460-521981/8	D50572.D
Level 6	STD500 460-521981/9	D50573.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.1349 0.2519	0.1870	0.2182	0.2279	0.2526	QuaF		0.2487	0.0000068						1.0000		0.9900
Dichlorodifluoromethane	0.2770 0.4826	0.3921	0.4683	0.4867	0.4893	Ave		0.4327			0.1000	19.6		20.0			
Chloromethane	0.3499 0.3742	0.3459	0.3615	0.3694	0.3778	Ave		0.3631			0.1000	3.6		20.0			
Butadiene	0.2000 0.3105	0.2675	0.3094	0.3141	0.3139	Ave		0.2859				16.0		20.0			
Vinyl chloride	0.2891 0.3243	0.2998	0.3238	0.3314	0.3307	Ave		0.3165			0.1000	5.6		20.0			
Bromomethane	0.2342 0.2098	0.2556	0.2541	0.2399	0.2413	Ave		0.2392			0.1000	7.0		20.0			
Chloroethane	0.1635 0.1614	0.1906	0.1858	0.1723	0.1745	Ave		0.1747			0.1000	6.7		20.0			
Dichlorofluoromethane	0.4658 0.4756	0.5053	0.5123	0.5087	0.4932	Ave		0.4935				3.9		20.0			
Pentane	0.0428 0.0456	0.0457	0.0497	0.0487	0.0457	Ave		0.0464				5.4		20.0			
Trichlorofluoromethane	0.3009 0.4061	0.3733	0.4362	0.4272	0.4243	Ave		0.3947			0.1000	12.9		20.0			
Ethyl ether	0.2139 0.1642	0.1940	0.1865	0.1811	0.1770	Ave		0.1861				9.1		20.0			
Ethanol	0.0438 0.0423	0.0456	0.0466	0.0427	0.0415	Ave		0.0437				4.5		20.0			
2-Methyl-1,3-butadiene	0.1668 0.1996	0.2028	0.2210	0.2212	0.2053	Ave		0.2028				9.8		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.2107 0.2408	0.2403	0.2628	0.2590	0.2485	Ave		0.2437				7.6		20.0			
Acrolein	0.9483 1.1801	1.0005	1.1207	1.0775	1.1893	Ave		1.0861				8.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.1908 0.2928	0.2550	0.2960	0.2988	0.2950	Ave		0.2714			0.1000	15.8		20.0			
1,1-Dichloroethene	0.2350 0.2705	0.2563	0.2672	0.2689	0.2692	Ave		0.2612			0.1000	5.3		20.0			
Acetone	0.9245 0.5766	0.6901	0.6212	0.6087	0.5909	Ave		0.6687			0.0500	19.6		20.0			
Iodomethane	0.6092 0.6131	0.6294	0.6173	0.6207	0.6263	Ave		0.6193				1.2		20.0			
Carbon disulfide	0.8101 1.0135	0.8963	0.8978	0.9192	0.9846	Ave		0.9202			0.1000	7.8		20.0			
Isopropyl alcohol	0.7263 0.6055	0.6058	0.5631	0.5438	0.5656	Ave		0.6017				11.0		20.0			
Allyl chloride	0.1478 0.1595	0.1563	0.1539	0.1592	0.1591	Ave		0.1560				2.9		20.0			
Cyclopentene	0.4638 0.5912	0.5758	0.6192	0.6240	0.5806	Ave		0.5758				10.1		20.0			
Methyl acetate	0.2169 0.1456	0.1940	0.1597	0.1577	0.1436	Ave		0.1696			0.1000	17.3		20.0			
Acetonitrile	0.7526 0.4337	0.5706	0.4409	0.4324	0.4203	QuaF		0.4149	0.0000037						1.0000		0.9900
Methylene Chloride	0.3800 0.2788	0.3209	0.2968	0.2934	0.2838	Ave		0.3090			0.1000	12.2		20.0			
2-Methyl-2-propanol	1.4111 1.0105	1.0911	1.0259	0.9914	1.0041	Ave		1.0890				14.8		20.0			
Methyl tert-butyl ether	0.7194 0.6460	0.7149	0.6826	0.6837	0.6681	Ave		0.6858			0.1000	4.1		20.0			
trans-1,2-Dichloroethene	0.2839 0.2781	0.2943	0.2886	0.2865	0.2823	Ave		0.2856			0.1000	1.9		20.0			
Acrylonitrile	2.5369 2.5041	2.4724	2.5692	2.4794	2.5030	Ave		2.5108				1.5		20.0			
Hexane	0.2561 0.3542	0.3048	0.3645	0.3650	0.3594	Ave		0.3340				13.3		20.0			
Isopropyl ether	0.7568 0.6569	0.7625	0.7134	0.7081	0.6703	Ave		0.7113				6.1		20.0			
1,1-Dichloroethane	0.4358 0.4170	0.4617	0.4511	0.4471	0.4291	Ave		0.4403			0.2000	3.7		20.0			
Vinyl acetate	0.0433 0.0480	0.0475	0.0462	0.0465	0.0487	Ave		0.0467				4.1		20.0			
2-Chloro-1,3-butadiene	0.2009 0.2345	0.2456	0.2421	0.2569	0.2345	Ave		0.2357				8.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.7095 0.6566	0.7089	0.6884	0.6841	0.6653	Ave		0.6855				3.2		20.0			
2,2-Dichloropropane	0.1317 0.1198	0.1188	0.1240	0.1241	0.1210	Ave		0.1232				3.8		20.0			
cis-1,2-Dichloroethene	0.3917 0.3021	0.3325	0.3218	0.3161	0.3079	Ave		0.3287			0.1000	9.9		20.0			
2-Butanone (MEK)	0.2884 0.2742	0.2652	0.2708	0.2663	0.2728	Ave		0.2730			0.0500	3.1		20.0			
Ethyl acetate	0.1861 0.2496	0.2109	0.2329	0.2409	0.2488	Ave		0.2282				11.0		20.0			
Methyl acrylate	0.2118 0.1752	0.2124	0.1872	0.1872	0.1838	Ave		0.1930				8.0		20.0			
Propionitrile	0.0418 0.0297	0.0384	0.0315	0.0319	0.0288	Ave		0.0337				15.5		20.0			
Tetrahydrofuran	0.3233 0.3009	0.2918	0.3193	0.3182	0.3000	Ave		0.3089				4.2		20.0			
Chlorobromomethane	0.1713 0.1545	0.1639	0.1630	0.1642	0.1606	Ave		0.1629				3.4		20.0			
Methacrylonitrile	0.1041 0.0882	0.1014	0.0901	0.0888	0.0858	Ave		0.0931				8.2		20.0			
Chloroform	0.4500 0.4341	0.4368	0.4445	0.4443	0.4388	Ave		0.4414			0.2000	1.3		20.0			
Cyclohexane	0.2724 0.4111	0.3473	0.3984	0.4070	0.4045	Ave		0.3735			0.1000	14.7		20.0			
1,1,1-Trichloroethane	0.3324 0.3934	0.3694	0.3822	0.3883	0.3895	Ave		0.3758			0.1000	6.1		20.0			
Carbon tetrachloride	0.2696 0.3605	0.3139	0.3380	0.3507	0.3524	Ave		0.3308			0.1000	10.3		20.0			
1,1-Dichloropropene	0.3102 0.3688	0.3274	0.3490	0.3542	0.3588	Ave		0.3447				6.3		20.0			
Isobutyl alcohol	0.4214 0.6285	0.4826	0.5648	0.5547	0.5977	Ave		0.5416				14.1		20.0			
Benzene	1.4370 1.1724	1.4064	1.3468	1.3395	1.2449	Ave		1.3245			0.5000	7.5		20.0			
Isopropyl acetate	0.7610 0.6274	0.6952	0.6352	0.6483	0.6340	Ave		0.6668				7.8		20.0			
Tert-amyl methyl ether	0.2179 0.2204	0.2102	0.2162	0.2195	0.2189	Ave		0.2172				1.7		20.0			
1,2-Dichloroethane	0.3455 0.2871	0.3106	0.2941	0.2866	0.2933	Ave		0.3029			0.1000	7.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.1295 0.2093	0.1687	0.1998	0.2067	0.2059	Ave		0.1867				17.0		20.0			
n-Butanol	0.1933 0.2657	0.2023	0.2161	0.2163	0.2468	Ave		0.2234				12.3		20.0			
Trichloroethene	0.2729 0.2676	0.2545	0.2616	0.2620	0.2659	Ave		0.2641			0.2000	2.4		20.0			
Methylcyclohexane	0.3416 0.5056	0.3968	0.4744	0.4894	0.4938	Ave		0.4503			0.1000	14.6		20.0			
Ethyl acrylate	0.0133 0.0204	0.0179	0.0158	0.0173	0.0200	Ave		0.0174				15.2		20.0			
1,2-Dichloropropane	0.2157 0.2401	0.2281	0.2308	0.2348	0.2393	Ave		0.2315			0.1000	3.9		20.0			
Methyl methacrylate	0.0484 0.0654	0.0580	0.0568	0.0593	0.0625	Ave		0.0584				10.0		20.0			
1,4-Dioxane	1.1032 0.9981	1.1666	1.1311	1.0325	0.9962	Ave		1.0713				6.8		20.0			
Dibromomethane	0.1688 0.1607	0.1589	0.1524	0.1545	0.1602	Ave		0.1593				3.6		20.0			
n-Propyl acetate	0.2955 0.3013	0.2880	0.2650	0.2707	0.2819	Ave		0.2837				5.0		20.0			
Bromodichloromethane	0.2776 0.3376	0.2716	0.2927	0.2980	0.3276	Ave		0.3008			0.2000	8.8		20.0			
2-Nitropropane	0.0670 0.0511	0.0478	0.0428	0.0455	0.0477	Ave		0.0503				17.2		20.0			
2-Chloroethyl vinyl ether	0.0670 0.0907	0.0736	0.0727	0.0732	0.0827	Ave		0.0766				11.2		20.0			
Epichlorohydrin	0.1859 0.2191	0.1807	0.1983	0.1989	0.2126	Ave		0.1992				7.4		20.0			
cis-1,3-Dichloropropene	0.4063 0.4599	0.4336	0.4582	0.4643	0.4776	Ave		0.4500			0.2000	5.7		20.0			
4-Methyl-2-pentanone (MIBK)	1.7966 1.9378	1.8059	1.9550	2.0164	2.0090	Ave		1.9201			0.0500	5.0		20.0			
Toluene	1.5444 1.2789	1.4075	1.3597	1.3734	1.3285	Ave		1.3821			0.4000	6.6		20.0			
trans-1,3-Dichloropropene	0.3805 0.3893	0.3509	0.3708	0.3746	0.3920	Ave		0.3764			0.1000	4.0		20.0			
Ethyl methacrylate	0.2265 0.2762	0.2456	0.2404	0.2525	0.2660	Ave		0.2512				7.1		20.0			
1,1,2-Trichloroethane	0.2425 0.2110	0.2272	0.2181	0.2159	0.2156	Ave		0.2217			0.1000	5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.3757 0.4154	0.4072	0.4219	0.4347	0.4305	Ave		0.4142			0.2000	5.2		20.0			
1,3-Dichloropropane	0.4050 0.4137	0.4075	0.4012	0.4016	0.4157	Ave		0.4075				1.5		20.0			
2-Hexanone	1.1641 1.3476	1.1671	1.2176	1.2235	1.2983	Ave		1.2363			0.0500	5.9		20.0			
n-Butyl acetate	0.0746 0.0668	0.0771	0.0692	0.0715	0.0668	Ave		0.0710				5.9		20.0			
Dibromochloromethane	0.2838 0.3350	0.2889	0.3044	0.3142	0.3346	Ave		0.3102			0.1000	7.1		20.0			
1,2-Dibromoethane	0.2741 0.2746	0.2598	0.2592	0.2571	0.2688	Ave		0.2656			0.1000	3.0		20.0			
Chlorobenzene	0.9642 0.8833	0.9109	0.8959	0.9042	0.8950	Ave		0.9089			0.5000	3.2		20.0			
Ethylbenzene	0.4680 0.4825	0.4900	0.4879	0.5001	0.4913	Ave		0.4866			0.1000	2.2		20.0			
1,1,1,2-Tetrachloroethane	0.3191 0.3402	0.3435	0.3539	0.3659	0.3660	Ave		0.3481				5.1		20.0			
m-Xylene & p-Xylene	0.5861 0.6032	0.6059	0.5996	0.6169	0.6163	Ave		0.6047			0.1000	1.9		20.0			
n-Butyl acrylate	0.1868 0.1793	0.1942	0.1864	0.1947	0.1845	Ave		0.1877				3.1		20.0			
o-Xylene	0.5541 0.5746	0.5996	0.6008	0.6290	0.6007	Ave		0.5931			0.3000	4.3		20.0			
Styrene	0.9217 0.9610	0.9076	0.9634	0.9761	0.9803	Ave		0.9517			0.3000	3.1		20.0			
Amyl acetate (mixed isomers)	0.7438 0.6887	0.7764	0.7398	0.7399	0.6786	Ave		0.7279				5.1		20.0			
Bromoform	0.1863 0.2343	0.2029	0.2075	0.2211	0.2316	Ave		0.2140			0.1000	8.6		20.0			
Isopropylbenzene	1.4368 1.6080	1.5396	1.5910	1.6719	1.6333	Ave		1.5801			0.1000	5.2		20.0			
Bromobenzene	0.7754 0.7130	0.7139	0.7205	0.7055	0.7003	Ave		0.7214				3.8		20.0			
1,1,2,2-Tetrachloroethane	0.6610 0.6416	0.6348	0.6113	0.6173	0.6173	Ave		0.6306			0.3000	3.0		20.0			
N-Propylbenzene	2.8018 3.2208	2.9145	3.0748	3.1257	3.1638	Ave		3.0502				5.3		20.0			
1,2,3-Trichloropropane	0.1896 0.1820	0.2006	0.1787	0.1803	0.1791	Ave		0.1851				4.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.1539 0.1429	0.1441	0.1442	0.1406	0.1423	Ave		0.1447				3.3		20.0			
4-Ethyltoluene	2.3904 2.6183	2.5381	2.6764	2.6991	2.6721	Ave		2.5991				4.5		20.0			
2-Chlorotoluene	1.9715 2.1234	1.9532	2.0665	2.0927	2.1525	Ave		2.0600				3.9		20.0			
1,3,5-Trimethylbenzene	1.9158 2.4385	2.0730	2.2980	2.3418	2.4686	Ave		2.2559				9.6		20.0			
4-Chlorotoluene	1.7764 1.7927	1.6791	1.7391	1.7337	1.7753	Ave		1.7494				2.4		20.0			
Butyl Methacrylate	0.6044 0.7160	0.6142	0.6790	0.7164	0.7246	Ave		0.6758				8.0		20.0			
tert-Butylbenzene	1.4685 2.1245	1.7101	1.9583	2.0300	2.1254	Ave		1.9028				13.8		20.0			
1,2,4-Trimethylbenzene	2.1079 2.3972	2.1425	2.3053	2.3286	2.4173	Ave		2.2831				5.7		20.0			
sec-Butylbenzene	2.3705 3.1958	2.7117	2.9349	3.0531	3.1621	Ave		2.9047				10.8		20.0			
4-Isopropyltoluene	2.1944 2.7103	2.3822	2.6528	2.7085	2.7369	Ave		2.5642				8.7		20.0			
1,3-Dichlorobenzene	1.4950 1.2690	1.2906	1.3746	1.3615	1.3610	Ave		1.3586			0.6000	5.8		20.0			
1,4-Dichlorobenzene	1.5549 1.2141	1.3538	1.3946	1.3594	1.3512	Ave		1.3713			0.5000	8.0		20.0			
Benzyl chloride	0.1755 0.2461	0.1715	0.2316	0.2414	0.2460	Ave		0.2187				16.2		20.0			
Indan	1.0706 1.2026	1.0707	1.1117	1.1498	1.2062	Ave		1.1353				5.4		20.0			
p-Diethylbenzene	1.4689 1.5124	1.4965	1.5989	1.6400	1.6125	Ave		1.5549				4.6		20.0			
n-Butylbenzene	1.1677 1.2944	1.2397	1.3555	1.3449	1.3491	Ave		1.2919				5.8		20.0			
1,2-Dichlorobenzene	1.4753 1.2831	1.3096	1.3533	1.3544	1.3669	Ave		1.3571			0.4000	4.9		20.0			
1,2,4,5-Tetramethylbenzene	2.0358 2.4799	2.1352	2.3402	2.3809	2.4284	Ave		2.3001				7.6		20.0			
1,2-Dibromo-3-Chloropropane	0.1569 0.1742	0.1627	0.1555	0.1652	0.1664	Ave		0.1635			0.0500	4.2		20.0			
1,3,5-Trichlorobenzene	1.2906 1.1024	1.1171	1.1925	1.1872	1.1268	Ave		1.1695				6.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.2810 0.9997	1.0096	1.0595	1.0717	1.0061	Ave		1.0713			0.2000	10.0		20.0			
Hexachlorobutadiene	0.5421 0.5769	0.4814	0.5328	0.5391	0.5465	Ave		0.5365				5.8		20.0			
Naphthalene	2.9703 2.3573	2.3431	2.2418	2.3229	2.3106	Ave		2.4243				11.2		20.0			
1,2,3-Trichlorobenzene	1.2847 0.9814	1.0259	1.0194	1.0312	0.9930	Ave		1.0559				10.8		20.0			
Dibromofluoromethane (Surr)	0.2860 0.2986	0.2904	0.3011	0.3018	0.3019	Ave		0.2966				2.3		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2483 0.2809	0.2481	0.2534	0.2531	0.2622	Ave		0.2577				4.8		20.0			
Toluene-d8 (Surr)	1.2847 1.2796	1.3158	1.3734	1.3747	1.3272	Ave		1.3259				3.1		20.0			
4-Bromofluorobenzene	0.8322 0.9003	0.8473	0.8985	0.8860	0.8758	Ave		0.8734				3.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-521981/14	D50578.D
Level 2	STD5 460-521981/15	D50579.D
Level 3	STD20 460-521981/6	D50570.D
Level 4	STD50 460-521981/7	D50571.D
Level 5	STD200 460-521981/8	D50572.D
Level 6	STD500 460-521981/9	D50573.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	QuaF	1452 1604210	10215	51840	129716	629546	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Ave	2981 3072813	21420	111276	277031	1219507	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	3766 2382616	18900	85888	210267	941546	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	2153 1977175	14615	73505	178770	782370	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	3111 2064698	16377	76948	188664	824215	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	2521 1335908	13965	60378	136540	601386	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1760 1027571	10411	44153	98106	434877	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	5013 3028144	27607	121719	289595	1229327	1.00 500	5.00	20.0	50.0	200
Pentane	FB	Ave	921 580308	4991	23629	55423	227851	2.00 1000	10.0	40.0	100	400
Trichlorofluoromethane	FB	Ave	3238 2585959	20393	103642	243157	1057489	1.00 500	5.00	20.0	50.0	200
Ethyl ether	FB	Ave	2302 1045436	10599	44318	103110	441241	1.00 500	5.00	20.0	50.0	200
Ethanol	TBAd9	Ave	807 332609	3914	13992	32110	124145	40.0 20000	200	800	2000	8000
2-Methyl-1,3-butadiene	FB	Ave	1795 1270947	11082	52508	125885	511747	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	2268 1533409	13130	62451	147431	619337	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	43660 278170	85949	126294	162199	222352	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2053 1864500	13930	70324	170113	735194	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	2529 1722609	14004	63488	153076	670994	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	Ave	6097 1833937	22328	73772	174367	709888	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	6557 3903922	34388	146663	353315	1560915	1.00 500	5.00	20.0	50.0	200
Carbon disulfide	FB	Ave	8719 6453101	48967	213322	523214	2453996	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	3344 1189444	13010	42304	102326	422976	10.0 5000	50.0	200	500	2000
Allyl chloride	FB	Ave	1591 1015606	8537	36557	90626	396543	1.00 500	5.00	20.0	50.0	200
Cyclopentene	FB	Ave	4992 3764201	31459	147132	355222	1447012	1.00 500	5.00	20.0	50.0	200
Methyl acetate	FB	Ave	4669 1853592	21199	75883	179511	716046	2.00 1000	10.0	40.0	100	400
Acetonitrile	TBAd9	QuaF	3465 851927	12253	33124	81361	314331	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	4090 1775251	17533	70526	166987	707346	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	6497 1984893	23431	77074	186550	750932	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	7743 4113411	39055	162185	389198	1665068	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	3056 1770727	16076	68575	163066	703473	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	TBAd9	Ave	11680 4918651	53097	193011	466544	1871876	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	2756 2255500	16654	86599	207772	895853	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	8145 4182777	41659	169496	403060	1670715	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	4690 2655194	25223	107176	254520	1069581	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	FB	Ave	931 611050	5195	21933	52912	242928	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	2162 1493075	13420	57521	146245	584417	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	7636 4180508	38729	163578	389422	1658142	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	1417 762596	6491	29456	70627	301478	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	4216 1923602	18164	76464	179955	767468	1.00 500	5.00	20.0	50.0	200
2-Butanone (MEK)	BUT	Ave	1902 872234	8582	32154	76285	327751	5.00 2500	25.0	100	250	1000
Ethyl acetate	BUT	Ave	491 317610	2729	11063	27602	119580	2.00 1000	10.0	40.0	100	400
Methyl acrylate	FB	Ave	2280 1115826	11603	44482	106586	458185	1.00 500	5.00	20.0	50.0	200
Propionitrile	FB	Ave	4504 1891359	20956	74923	181499	717215	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	853 382795	3776	15167	36463	144158	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	1844 983947	8957	38728	93465	400329	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	11200 5619082	55422	214037	505392	2138694	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	4843 2763821	23865	105604	252925	1093579	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	2932 2617813	18977	94650	231691	1008217	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	3577 2504752	20180	90801	221031	970750	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	2902 2295302	17152	80300	199618	878242	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	3339 2348154	17885	82919	201599	894255	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	4850 3086249	25909	106069	260942	1117461	25.0 12500	125	500	1250	5000
Benzene	CBNZ d5	Ave	10921 6239816	54291	230801	553633	2435679	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	8190 3994549	37983	150922	369010	1580271	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	2345 1403274	11483	51376	124945	545486	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	3718 1827823	16971	69869	163158	731084	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	1394 1332635	9214	47482	117681	513182	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	2225 1304803	10859	40577	101741	461341	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	2937 1704102	13905	62149	149164	662608	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Methylcyclohexane	FB	Ave	3677 3219589	21680	112721	278598	1230752	1.00 500	5.00	20.0	50.0	200
Ethyl acrylate	FB	Ave	143 129838	978	3759	9831	49782	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2322 1528900	12463	54846	133646	596439	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	1042 832987	6340	26999	67515	311645	2.00 1000	10.0	40.0	100	400
1,4-Dioxane	DXE	Ave	820 408607	3986	14499	33070	145311	20.0 10000	100	400	1000	4000
Dibromomethane	FB	Ave	1817 1023468	8683	36202	87933	399314	1.00 500	5.00	20.0	50.0	200
n-Propyl acetate	FB	Ave	3180 1918559	15736	62968	154104	702666	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	2988 2149454	14837	69546	169643	816495	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	1443 650742	5228	20333	51808	237598	2.00 1000	10.0	40.0	100	400
2-Chloroethyl vinyl ether	FB	Ave	721 577619	4020	17272	41650	206212	1.00 500	5.00	20.0	50.0	200
Epichlorohydrin	BUT	Ave	4903 2788038	23382	94212	227850	1021667	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	3088 2447658	16738	78527	191905	934401	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	11849 6163448	58429	232160	577590	2413688	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	11737 6806967	54332	233000	567644	2599312	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	2892 2072032	13547	63544	154816	767053	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	FB	Ave	2438 1758531	13419	57128	143758	662948	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	1843 1122821	8771	37373	89244	421830	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	2855 2210758	15718	72304	179645	842226	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	3078 2201800	15732	68760	166001	813291	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	7677 4286307	37761	144587	350447	1559833	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	567 355682	2977	11858	29542	130742	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromochloromethane	CBNZ d5	Ave	2157 1783151	11152	52162	129840	654699	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBNZ d5	Ave	2083 1461643	10029	44423	106273	525835	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	7328 4701074	35162	153529	373708	1751197	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	3557 2568007	18916	83605	206672	961271	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	2425 1810623	13259	60652	151225	716022	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	4454 3210701	23389	102751	254964	1205750	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	1420 954402	7496	31946	80461	360912	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	4211 3058126	23145	102964	259960	1175273	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	7005 5114906	35033	165089	403437	1918055	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	3484 2068795	18448	74883	183657	777457	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	1416 1247173	7832	35555	91375	453168	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Ave	10919 8558364	59433	272647	691012	3195648	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	3632 2141920	16962	72930	175116	802321	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	3096 1927334	15084	61877	153232	707134	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	13123 9674966	69248	311248	775883	3624487	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	888 546729	4767	18086	44762	205203	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	721 429306	3423	14593	34907	163062	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	11196 7865293	60306	270918	669986	3061164	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	9234 6378583	46408	209179	519444	2465942	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	8973 7325045	49254	232614	581299	2827991	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	8320 5385073	39896	176041	430354	2033741	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	2831 2150871	14593	68737	177837	830131	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Ave	6878 6381980	40633	198234	503905	2434819	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	9873 7201053	50905	233361	578022	2769308	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Ave	11103 9600067	64430	297086	757849	3622519	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Ave	10278 8141552	56601	268528	672322	3135406	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	7002 3811943	30665	139141	337951	1559212	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	7283 3647047	32166	141165	337445	1547892	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	822 739377	4075	23449	59910	281849	1.00 500	5.00	20.0	50.0	200
Indan	FB	Ave	11523 7657134	58495	264155	654487	3006315	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	6880 4543152	35557	161848	407096	1847274	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Ave	5469 3888448	29456	137209	333846	1545582	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	6910 3854350	31116	136985	336193	1565915	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	9535 7449481	50732	236888	590989	2782042	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	735 523145	3865	15742	40999	190634	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	6045 3311631	26543	120717	294702	1290906	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	6000 3003150	23988	107248	266010	1152610	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Ave	2539 1733099	11439	53936	133828	626054	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	13912 7081073	55673	226926	576586	2647090	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	6017 2948041	24375	103192	255969	1137586	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	153885 190134	158651	178870	171783	188133	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	133643 178843	135570	150505	144092	163380	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159001-1 Analy Batch No.: 521981

SDG No.:

Instrument ID: CVOAMS4 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 05/24/2018 03:17 Calibration End Date: 05/24/2018 06:58 Calibration ID: 68781

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	488171 681058	507902	588372	568154	649194	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	DCBd 4	Ave	194881 270442	201320	227389	219928	250845	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50570.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 24-May-2018 03:17:30 ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0072566-006
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:15:46 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 24-May-2018 14:23:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.588	1.588	0.000	88	51840	20.0	17.5	a
2 Dichlorodifluoromethane	85	1.618	1.618	0.000	99	111276	20.0	21.6	
3 Chloromethane	50	1.832	1.832	0.000	97	85888	20.0	19.9	
5 Butadiene	54	1.929	1.929	0.000	99	73505	20.0	21.6	
4 Vinyl chloride	62	1.935	1.935	0.000	96	76948	20.0	20.5	
6 Bromomethane	94	2.271	2.271	0.000	99	60378	20.0	21.3	
7 Chloroethane	64	2.338	2.338	0.000	99	44153	20.0	21.3	
8 Dichlorofluoromethane	67	2.576	2.576	0.000	88	121719	20.0	20.8	
10 Pentane	72	2.576	2.576	0.000	95	23629	40.0	42.9	
9 Trichlorofluoromethane	101	2.582	2.582	0.000	97	103642	20.0	22.1	
11 Ethyl ether	59	2.807	2.807	0.000	90	44318	20.0	20.0	
12 Ethanol	46	2.813	2.813	0.000	89	13992	800.0	851.6	
13 2-Methyl-1,3-butadiene	53	2.826	2.826	0.000	97	52508	20.0	21.8	
14 1,2-Dichloro-1,1,2-trifluo	117	2.905	2.905	0.000	91	62451	20.0	21.6	
16 Acrolein	56	3.015	3.015	0.000	98	126294	300.0	309.6	
15 1,1,2-Trichloro-1,2,2-trif	101	3.051	3.051	0.000	96	70324	20.0	21.8	
17 1,1-Dichloroethene	96	3.057	3.057	0.000	97	63488	20.0	20.5	
18 Acetone	43	3.161	3.161	0.000	87	73772	100.0	92.9	
19 Iodomethane	142	3.234	3.234	0.000	97	146663	20.0	19.9	
20 Carbon disulfide	76	3.271	3.271	0.000	99	213322	20.0	19.5	
21 Isopropyl alcohol	45	3.289	3.289	0.000	98	42304	200.0	187.2	
22 3-Chloro-1-propene	76	3.435	3.435	0.000	91	36557	20.0	19.7	
24 Methyl acetate	43	3.453	3.453	0.000	66	75883	40.0	37.7	
23 Cyclopentene	67	3.453	3.453	0.000	89	147132	20.0	21.5	
25 Acetonitrile	40	3.527	3.527	0.000	93	33124	200.0	212.2	M
26 Methylene Chloride	84	3.594	3.594	0.000	90	70526	20.0	19.2	
* 27 TBA-d9 (IS)	65	3.606	3.606	0.000	37	375623	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.691	3.691	0.000	97	77074	200.0	188.4	
29 Methyl tert-butyl ether	73	3.795	3.795	0.000	96	162185	20.0	19.9	
30 trans-1,2-Dichloroethene	96	3.819	3.819	0.000	93	68575	20.0	20.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.911	3.911	0.000	94	193011	200.0	204.7	
32 Hexane	57	4.008	4.008	0.000	93	86599	20.0	21.8	
33 Isopropyl ether	45	4.276	4.276	0.000	94	169496	20.0	20.1	
34 1,1-Dichloroethane	63	4.301	4.301	0.000	99	107176	20.0	20.5	
35 Vinyl acetate	86	4.331	4.331	0.000	99	21933	40.0	39.5	
36 2-Chloro-1,3-butadiene	88	4.356	4.356	0.000	90	57521	20.0	20.5	
37 Tert-butyl ethyl ether	59	4.667	4.667	0.000	90	163578	20.0	20.1	
* 38 2-Butanone-d5	46	4.898	4.898	0.000	0	296875	250.0	250.0	
39 2,2-Dichloropropane	79	4.910	4.910	0.000	87	29456	20.0	20.1	
40 cis-1,2-Dichloroethene	96	4.941	4.941	0.000	97	76464	20.0	19.6	
41 2-Butanone (MEK)	72	4.965	4.965	0.000	97	32154	100.0	99.2	
42 Ethyl acetate	70	4.984	4.984	0.000	96	11063	40.0	40.8	
43 Methyl acrylate	55	5.045	5.045	0.000	100	44482	20.0	19.4	
44 Propionitrile	54	5.130	5.130	0.000	98	74923	200.0	187.2	
45 Tetrahydrofuran	72	5.215	5.215	0.000	92	15167	40.0	41.3	
46 Chlorobromomethane	128	5.221	5.221	0.000	79	38728	20.0	20.0	
47 Methacrylonitrile	67	5.252	5.252	0.000	92	214037	200.0	193.6	
48 Chloroform	83	5.295	5.295	0.000	99	105604	20.0	20.1	
49 Cyclohexane	84	5.441	5.441	0.000	89	94650	20.0	21.3	
50 1,1,1-Trichloroethane	97	5.465	5.465	0.000	99	90801	20.0	20.3	
$ 51 Dibromofluoromethane (Surr	113	5.484	5.484	0.000	98	178870	50.0	50.8	
52 Carbon tetrachloride	117	5.605	5.605	0.000	96	80300	20.0	20.4	
53 1,1-Dichloropropene	75	5.648	5.648	0.000	97	82919	20.0	20.2	
54 Isobutyl alcohol	43	5.837	5.837	0.000	94	106069	500.0	521.4	
55 Benzene	78	5.886	5.886	0.000	97	230801	20.0	20.3	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.910	5.910	0.000	96	150505	50.0	49.2	
57 Tert-amyl methyl ether	87	5.983	5.983	0.000	92	51376	20.0	19.9	
58 Isopropyl acetate	43	5.983	5.983	0.000	98	150922	20.0	19.1	
59 1,2-Dichloroethane	62	6.008	6.008	0.000	97	69869	20.0	19.4	
60 n-Heptane	57	6.099	6.099	0.000	90	47482	20.0	21.4	
* 61 Fluorobenzene	96	6.252	6.252	0.000	99	594011	50.0	50.0	
62 n-Butanol	56	6.660	6.660	0.000	86	40577	500.0	483.6	
63 Trichloroethene	95	6.691	6.691	0.000	95	62149	20.0	19.8	
64 Methylcyclohexane	83	6.837	6.837	0.000	93	112721	20.0	21.1	
65 Ethyl acrylate	73	6.855	6.855	0.000	98	3759	20.0	18.1	
66 1,2-Dichloropropane	63	7.026	7.026	0.000	92	54846	20.0	19.9	
* 67 1,4-Dioxane-d8	96	7.093	7.093	0.000	0	32046	1000.0	1000.0	
68 Methyl methacrylate	100	7.123	7.123	0.000	86	26999	40.0	38.9	
69 1,4-Dioxane	88	7.154	7.154	0.000	84	14499	400.0	422.3	
70 Dibromomethane	93	7.166	7.166	0.000	90	36202	20.0	19.1	
71 n-Propyl acetate	43	7.191	7.191	0.000	98	62968	20.0	18.7	
72 Dichlorobromomethane	83	7.331	7.331	0.000	99	69546	20.0	19.5	
73 2-Nitropropane	41	7.660	7.660	0.000	99	20333	40.0	34.0	
74 2-Chloroethyl vinyl ether	63	7.666	7.666	0.000	95	17272	20.0	19.0	
75 Epichlorohydrin	57	7.757	7.757	0.000	98	94212	400.0	398.2	
76 cis-1,3-Dichloropropene	75	7.806	7.806	0.000	89	78527	20.0	20.4	
77 4-Methyl-2-pentanone (MIBK	43	7.959	7.959	0.000	96	232160	100.0	101.8	
$ 78 Toluene-d8 (Surr)	98	8.026	8.026	0.000	99	588372	50.0	51.8	
79 Toluene	91	8.087	8.087	0.000	93	233000	20.0	19.7	
80 trans-1,3-Dichloropropene	75	8.379	8.379	0.000	98	63544	20.0	19.7	
81 Ethyl methacrylate	69	8.404	8.404	0.000	89	57128	20.0	19.1	
82 1,1,2-Trichloroethane	83	8.550	8.550	0.000	96	37373	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.580	8.580	0.000	96	72304	20.0	20.4	
84 1,3-Dichloropropane	76	8.702	8.702	0.000	90	68760	20.0	19.7	
85 2-Hexanone	43	8.751	8.751	0.000	96	144587	100.0	98.5	
86 n-Butyl acetate	73	8.830	8.830	0.000	98	11858	20.0	19.5	
87 Chlorodibromomethane	129	8.879	8.879	0.000	98	52162	20.0	19.6	
88 Ethylene Dibromide	107	8.989	8.989	0.000	99	44423	20.0	19.5	
* 89 Chlorobenzene-d5	117	9.361	9.361	0.000	84	428419	50.0	50.0	
90 Chlorobenzene	112	9.385	9.385	0.000	97	153529	20.0	19.7	
91 Ethylbenzene	106	9.446	9.446	0.000	98	83605	20.0	20.1	
92 1,1,1,2-Tetrachloroethane	131	9.458	9.458	0.000	96	60652	20.0	20.3	
93 m-Xylene & p-Xylene	106	9.544	9.544	0.000	100	102751	20.0	19.8	
94 n-Butyl acrylate	73	9.836	9.836	0.000	97	31946	20.0	19.9	
95 o-Xylene	106	9.873	9.873	0.000	95	102964	20.0	20.3	
96 Styrene	104	9.891	9.891	0.000	96	165089	20.0	20.2	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	91	74883	20.0	20.3	
98 Bromoform	173	10.068	10.068	0.000	99	35555	20.0	19.4	
99 Isopropylbenzene	105	10.153	10.153	0.000	95	272647	20.0	20.1	
$ 100 4-Bromofluorobenzene	174	10.318	10.318	0.000	0	227389	50.0	51.4	
101 Bromobenzene	156	10.428	10.428	0.000	88	72930	20.0	20.0	
102 1,1,2,2-Tetrachloroethane	83	10.446	10.446	0.000	98	61877	20.0	19.4	
103 N-Propylbenzene	91	10.470	10.470	0.000	100	311248	20.0	20.2	
104 1,2,3-Trichloropropane	110	10.489	10.489	0.000	97	18086	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.495	10.495	0.000	80	14593	20.0	19.9	
106 4-Ethyltoluene	105	10.556	10.556	0.000	99	270918	20.0	20.6	
107 2-Chlorotoluene	91	10.562	10.562	0.000	97	209179	20.0	20.1	
108 1,3,5-Trimethylbenzene	105	10.604	10.604	0.000	94	232614	20.0	20.4	
109 4-Chlorotoluene	91	10.653	10.653	0.000	95	176041	20.0	19.9	
110 Butyl Methacrylate	87	10.659	10.659	0.000	89	68737	20.0	20.1	
111 tert-Butylbenzene	119	10.842	10.842	0.000	96	198234	20.0	20.6	
112 1,2,4-Trimethylbenzene	105	10.885	10.885	0.000	97	233361	20.0	20.2	
113 sec-Butylbenzene	105	11.001	11.001	0.000	99	297086	20.0	20.2	
114 4-Isopropyltoluene	119	11.104	11.104	0.000	98	268528	20.0	20.7	
115 1,3-Dichlorobenzene	146	11.129	11.129	0.000	99	139141	20.0	20.2	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	94	253065	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	96	141165	20.0	20.3	
118 Benzyl chloride	126	11.299	11.299	0.000	100	23449	20.0	21.2	
119 2,3-Dihydroindene	117	11.360	11.360	0.000	94	264155	20.0	19.6	
120 p-Diethylbenzene	119	11.385	11.385	0.000	94	161848	20.0	20.6	a
121 n-Butylbenzene	92	11.403	11.403	0.000	93	137209	20.0	21.0	
122 1,2-Dichlorobenzene	146	11.482	11.482	0.000	98	136985	20.0	19.9	
123 1,2,4,5-Tetramethylbenzene	119	12.019	12.019	0.000	98	236888	20.0	20.3	
124 1,2-Dibromo-3-Chloropropan	157	12.135	12.135	0.000	91	15742	20.0	19.0	
125 1,3,5-Trichlorobenzene	180	12.263	12.263	0.000	97	120717	20.0	20.4	
126 1,2,4-Trichlorobenzene	180	12.903	12.903	0.000	94	107248	20.0	19.8	
127 Hexachlorobutadiene	225	13.013	13.013	0.000	97	53936	20.0	19.9	
128 Naphthalene	128	13.195	13.195	0.000	99	226926	20.0	18.5	
129 1,2,3-Trichlorobenzene	180	13.488	13.488	0.000	95	103192	20.0	19.3	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.8	
S 131 1,3-Dichloropropene, Total	100				0		40.0	40.1	
S 132 Xylenes, Total	100				0		40.0	40.1	
S 133 Total BTEX	1				0		100.0	100.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	3.00	Units: uL	
GASES Li_00261	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

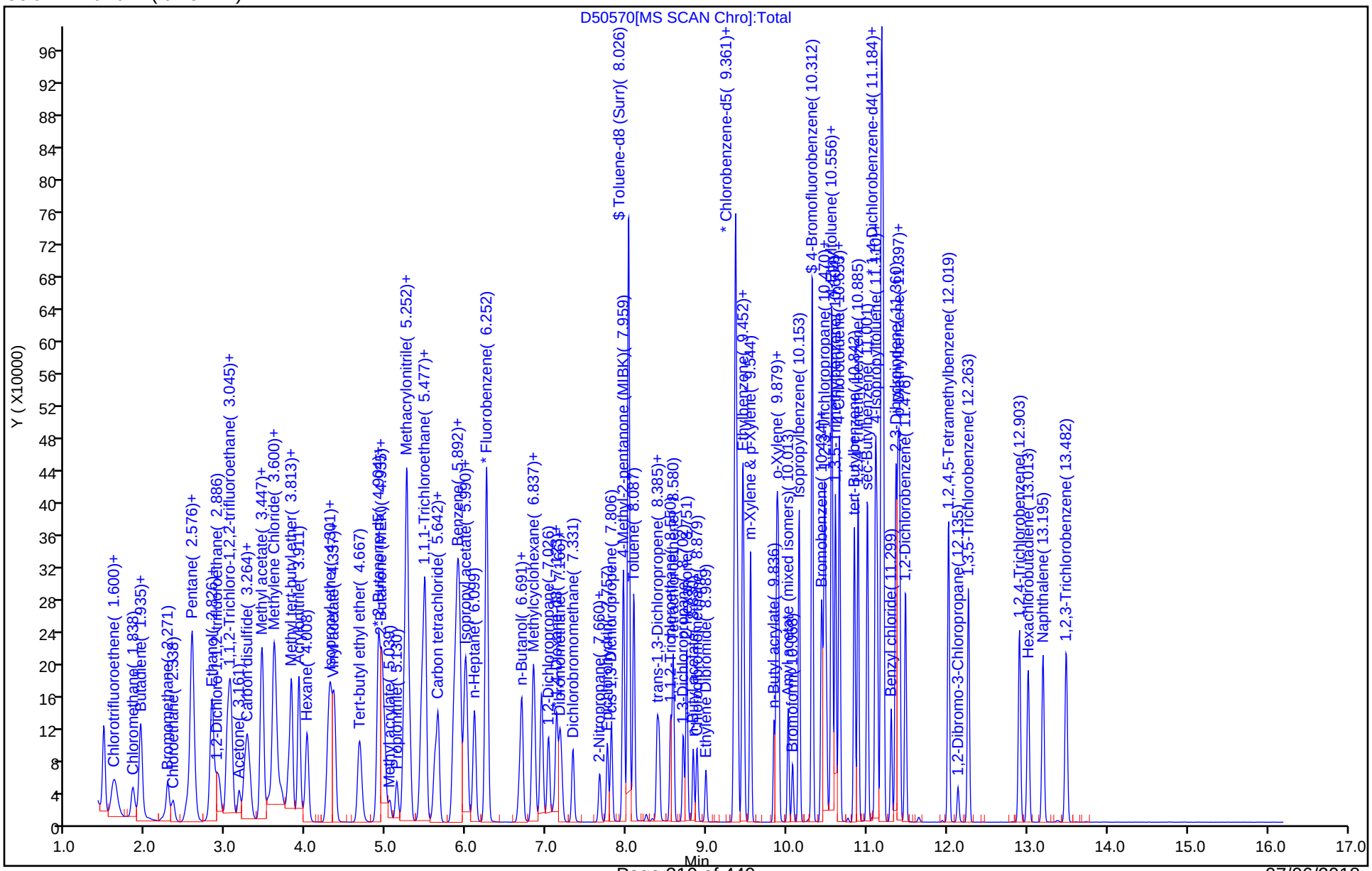
Report Date: 24-May-2018 15:15:48 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50570.D

Injection Date:	24-May-2018 03:17:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

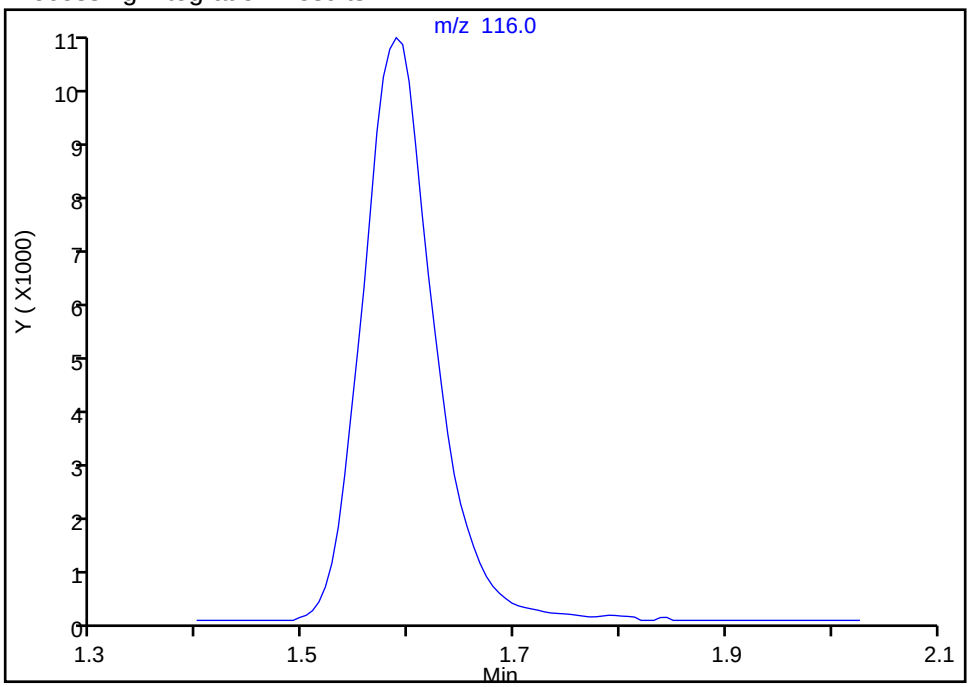
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50570.D
Injection Date: 24-May-2018 03:17:30 Instrument ID: CVOAMS4
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

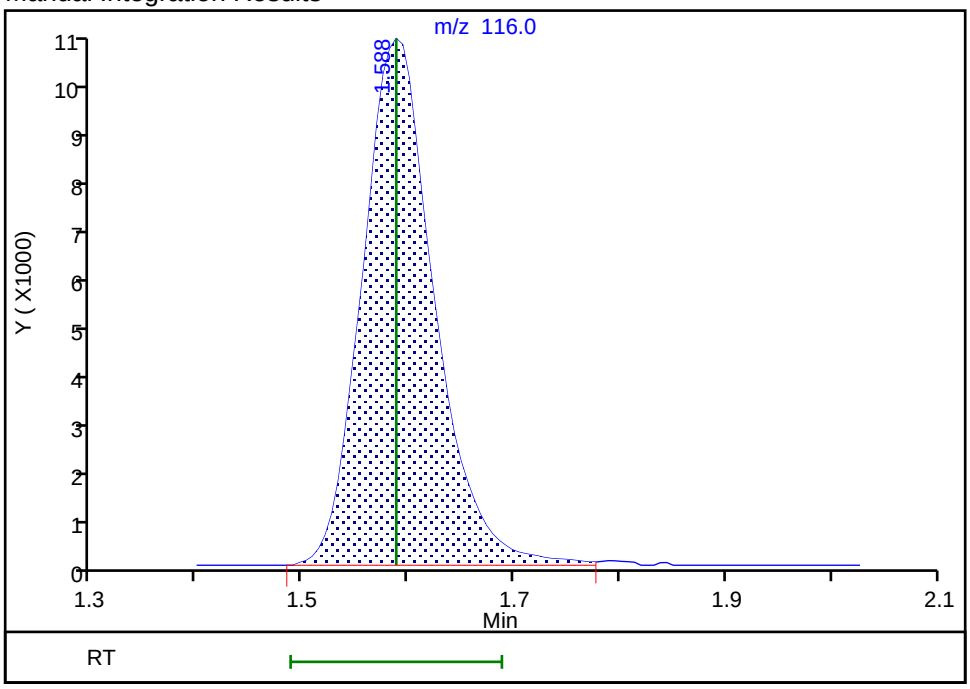
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.59
Area: 51840
Amount: 17.537621
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:27:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

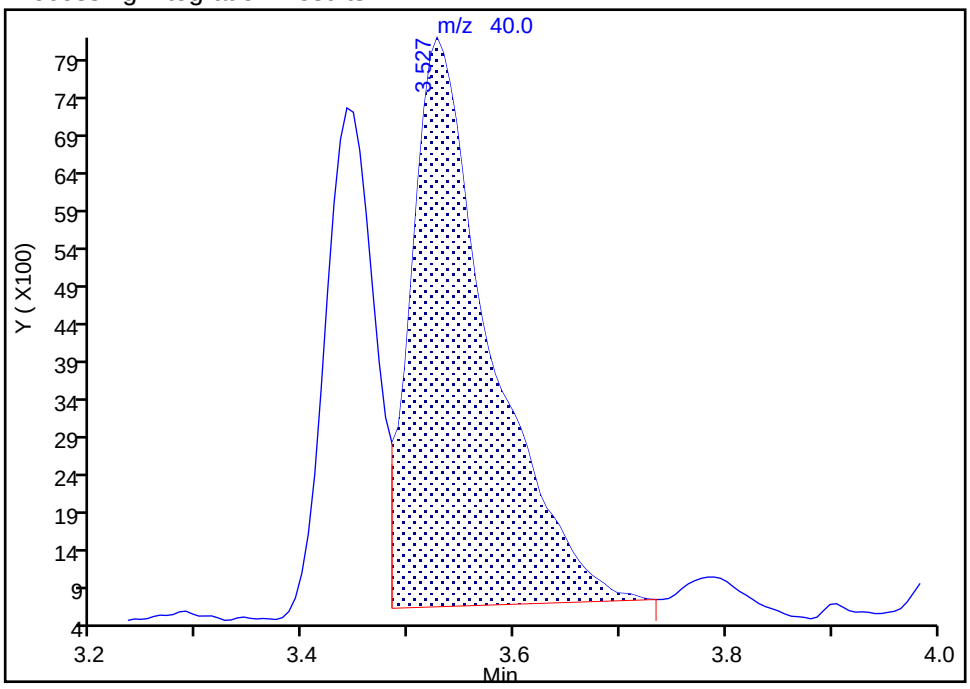
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50570.D
Injection Date: 24-May-2018 03:17:30 Instrument ID: CVOAMS4
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

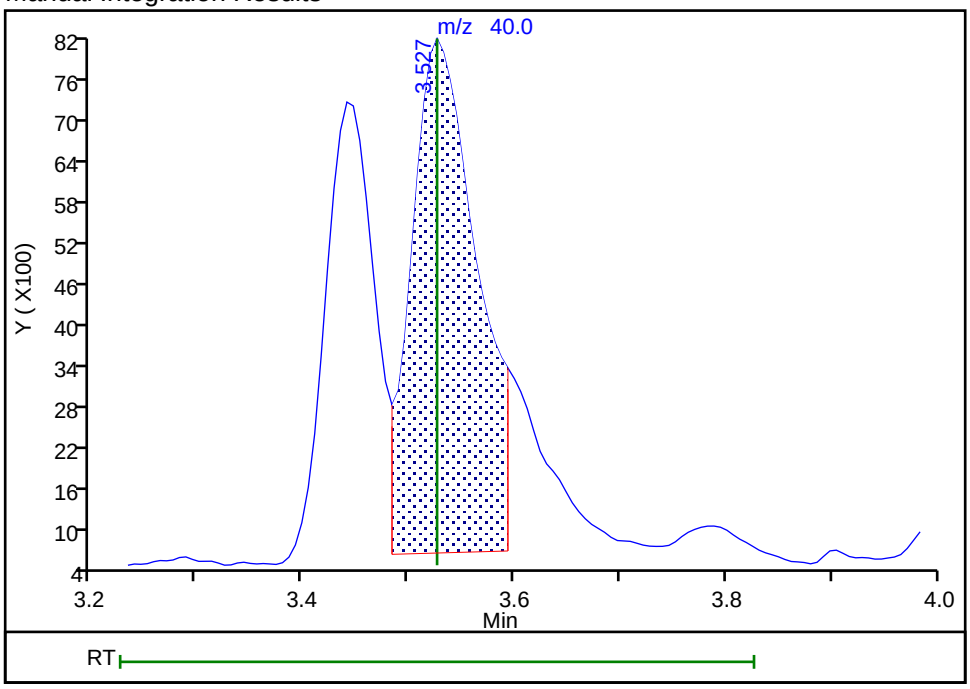
Processing Integration Results

RT: 3.53
Area: 39497
Amount: 233.7631
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 33124
Amount: 212.1552
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:49:01
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

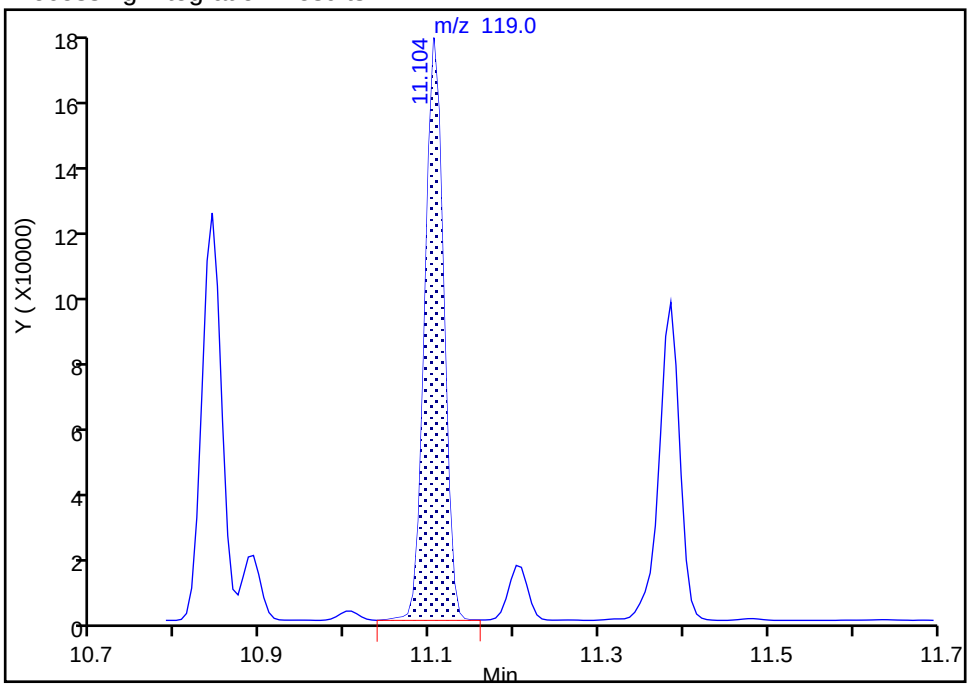
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50570.D
Injection Date: 24-May-2018 03:17:30 Instrument ID: CVOAMS4
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

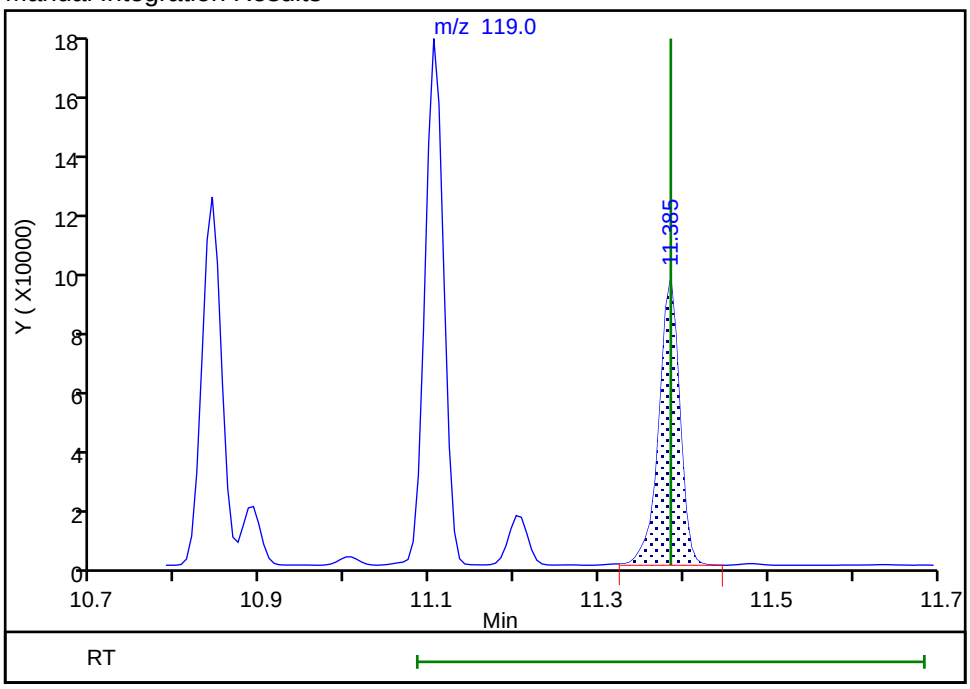
Processing Integration Results

RT: 11.10
Area: 268528
Amount: 20.700841
Amount Units: ug/l



Manual Integration Results

RT: 11.38
Area: 161848
Amount: 20.566094
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:27:30
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50571.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 24-May-2018 03:41:30 ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0072566-007
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:16:03 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 24-May-2018 14:31:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.576	1.588	-0.012	88	129716	50.0	45.8	a
2 Dichlorodifluoromethane	85	1.612	1.618	-0.006	99	277031	50.0	56.2	
3 Chloromethane	50	1.820	1.832	-0.012	98	210267	50.0	50.9	
5 Butadiene	54	1.917	1.929	-0.012	99	178770	50.0	54.9	
4 Vinyl chloride	62	1.923	1.935	-0.012	97	188664	50.0	52.4	
6 Bromomethane	94	2.252	2.271	-0.019	99	136540	50.0	50.1	
7 Chloroethane	64	2.326	2.338	-0.012	99	98106	50.0	49.3	
10 Pentane	72	2.563	2.576	-0.013	96	55423	100.0	105.0	
8 Dichlorofluoromethane	67	2.557	2.576	-0.019	98	289595	50.0	51.5	
9 Trichlorofluoromethane	101	2.569	2.582	-0.013	98	243157	50.0	54.1	
11 Ethyl ether	59	2.801	2.807	-0.006	90	103110	50.0	48.7	
12 Ethanol	46	2.807	2.813	-0.006	93	32110	2000.0	1950.7	
13 2-Methyl-1,3-butadiene	53	2.819	2.826	-0.007	97	125885	50.0	54.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.886	2.905	-0.019	83	147431	50.0	53.1	
16 Acrolein	56	3.008	3.015	-0.006	96	162199	400.0	396.8	
15 1,1,2-Trichloro-1,2,2-trif	101	3.039	3.051	-0.012	96	170113	50.0	55.1	
17 1,1-Dichloroethene	96	3.045	3.057	-0.012	96	153076	50.0	51.5	
18 Acetone	43	3.161	3.161	0.000	87	174367	250.0	227.6	
19 Iodomethane	142	3.222	3.234	-0.012	98	353315	50.0	50.1	
20 Carbon disulfide	76	3.258	3.271	-0.013	99	523214	50.0	49.9	
21 Isopropyl alcohol	45	3.295	3.289	0.006	99	102326	500.0	451.9	
22 3-Chloro-1-propene	76	3.429	3.435	-0.006	90	90626	50.0	51.0	
23 Cyclopentene	67	3.447	3.453	-0.006	95	355222	50.0	54.2	
24 Methyl acetate	43	3.453	3.453	0.000	99	179511	100.0	93.0	
25 Acetonitrile	40	3.527	3.527	0.000	98	81361	500.0	518.7	M
26 Methylene Chloride	84	3.588	3.594	-0.006	89	166987	50.0	47.5	
* 27 TBA-d9 (IS)	65	3.612	3.606	0.006	37	376337	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.691	3.691	0.000	99	186550	500.0	455.2	
29 Methyl tert-butyl ether	73	3.789	3.795	-0.006	98	389198	50.0	49.9	
30 trans-1,2-Dichloroethene	96	3.813	3.819	-0.006	93	163066	50.0	50.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.905	3.911	-0.006	94	466544	500.0	493.7	
32 Hexane	57	4.008	4.008	0.000	92	207772	50.0	54.6	
33 Isopropyl ether	45	4.276	4.276	0.000	92	403060	50.0	49.8	
34 1,1-Dichloroethane	63	4.301	4.301	0.000	99	254520	50.0	50.8	
35 Vinyl acetate	86	4.331	4.331	0.000	99	52912	100.0	99.5	
36 2-Chloro-1,3-butadiene	88	4.356	4.356	0.000	89	146245	50.0	54.5	
37 Tert-butyl ethyl ether	59	4.661	4.667	-0.006	90	389422	50.0	49.9	
* 38 2-Butanone-d5	46	4.898	4.898	0.000	0	286440	250.0	250.0	
39 2,2-Dichloropropane	79	4.910	4.910	0.000	90	70627	50.0	50.4	
40 cis-1,2-Dichloroethene	96	4.941	4.941	0.000	98	179955	50.0	48.1	
41 2-Butanone (MEK)	72	4.965	4.965	0.000	98	76285	250.0	243.9	
42 Ethyl acetate	70	4.984	4.984	0.000	96	27602	100.0	105.6	
43 Methyl acrylate	55	5.045	5.045	0.000	100	106586	50.0	48.5	
44 Propionitrile	54	5.130	5.130	0.000	98	181499	500.0	473.3	
45 Tetrahydrofuran	72	5.215	5.215	0.000	92	36463	100.0	103.0	
46 Chlorobromomethane	128	5.215	5.221	-0.006	78	93465	50.0	50.4	
47 Methacrylonitrile	67	5.252	5.252	0.000	92	505392	500.0	477.0	
48 Chloroform	83	5.288	5.295	-0.007	99	252925	50.0	50.3	
49 Cyclohexane	84	5.441	5.441	0.000	89	231691	50.0	54.5	
50 1,1,1-Trichloroethane	97	5.459	5.465	-0.006	98	221031	50.0	51.7	
$ 51 Dibromofluoromethane (Surr	113	5.484	5.484	0.000	99	171783	50.0	50.9	
52 Carbon tetrachloride	117	5.605	5.605	0.000	97	199618	50.0	53.0	
53 1,1-Dichloropropene	75	5.642	5.648	-0.006	97	201599	50.0	51.4	
54 Isobutyl alcohol	43	5.843	5.837	0.006	93	260942	1250.0	1280.2	
55 Benzene	78	5.886	5.886	0.000	96	553633	50.0	50.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.910	5.910	0.000	97	144092	50.0	49.1	
58 Isopropyl acetate	43	5.983	5.983	0.000	98	369010	50.0	48.6	
57 Tert-amyl methyl ether	87	5.983	5.983	0.000	91	124945	50.0	50.5	
59 1,2-Dichloroethane	62	6.008	6.008	0.000	97	163158	50.0	47.3	
60 n-Heptane	57	6.099	6.099	0.000	90	117681	50.0	55.4	
* 61 Fluorobenzene	96	6.252	6.252	0.000	99	569229	50.0	50.0	
62 n-Butanol	56	6.660	6.660	0.000	87	101741	1250.0	1210.2	
63 Trichloroethene	95	6.691	6.691	0.000	95	149164	50.0	49.6	
64 Methylcyclohexane	83	6.831	6.837	-0.006	93	278598	50.0	54.3	
65 Ethyl acrylate	73	6.855	6.855	0.000	97	9831	50.0	49.5	
66 1,2-Dichloropropane	63	7.026	7.026	0.000	92	133646	50.0	50.7	
* 67 1,4-Dioxane-d8	96	7.099	7.093	0.006	0	32030	1000.0	1000.0	
68 Methyl methacrylate	100	7.123	7.123	0.000	85	67515	100.0	101.5	
69 1,4-Dioxane	88	7.160	7.154	0.006	86	33070	1000.0	963.8	
70 Dibromomethane	93	7.166	7.166	0.000	90	87933	50.0	48.5	
71 n-Propyl acetate	43	7.191	7.191	-0.001	98	154104	50.0	47.7	
72 Dichlorobromomethane	83	7.331	7.331	0.000	99	169643	50.0	49.5	
73 2-Nitropropane	41	7.660	7.660	0.000	98	51808	100.0	90.4	
74 2-Chloroethyl vinyl ether	63	7.666	7.666	0.000	93	41650	50.0	47.7	
75 Epichlorohydrin	57	7.757	7.757	0.000	99	227850	1000.0	998.1	
76 cis-1,3-Dichloropropene	75	7.806	7.806	0.000	89	191905	50.0	51.6	
77 4-Methyl-2-pentanone (MIBK	43	7.959	7.959	0.000	96	577590	250.0	262.5	
$ 78 Toluene-d8 (Surr)	98	8.026	8.026	0.000	99	568154	50.0	51.8	
79 Toluene	91	8.087	8.087	0.000	93	567644	50.0	49.7	
80 trans-1,3-Dichloropropene	75	8.379	8.379	0.000	98	154816	50.0	49.8	
81 Ethyl methacrylate	69	8.404	8.404	0.000	89	143758	50.0	50.3	
82 1,1,2-Trichloroethane	83	8.550	8.550	0.000	96	89244	50.0	48.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.580	8.580	0.000	97	179645	50.0	52.5	
84 1,3-Dichloropropane	76	8.702	8.702	0.000	90	166001	50.0	49.3	
85 2-Hexanone	43	8.745	8.751	-0.006	96	350447	250.0	247.4	
86 n-Butyl acetate	73	8.830	8.830	0.000	99	29542	50.0	50.3	
87 Chlorodibromomethane	129	8.879	8.879	0.000	98	129840	50.0	50.6	
88 Ethylene Dibromide	107	8.989	8.989	0.000	98	106273	50.0	48.4	
* 89 Chlorobenzene-d5	117	9.361	9.361	0.000	84	413301	50.0	50.0	
90 Chlorobenzene	112	9.385	9.385	0.000	97	373708	50.0	49.7	
91 Ethylbenzene	106	9.446	9.446	0.000	98	206672	50.0	51.4	
92 1,1,1,2-Tetrachloroethane	131	9.458	9.458	0.000	96	151225	50.0	52.6	
93 m-Xylene & p-Xylene	106	9.544	9.544	0.000	100	254964	50.0	51.0	
94 n-Butyl acrylate	73	9.836	9.836	0.000	97	80461	50.0	51.9	
95 o-Xylene	106	9.873	9.873	0.000	95	259960	50.0	53.0	
96 Styrene	104	9.891	9.891	0.000	96	403437	50.0	51.3	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	91	183657	50.0	50.8	
98 Bromoform	173	10.068	10.068	0.000	99	91375	50.0	51.7	
99 Isopropylbenzene	105	10.153	10.153	0.000	95	691012	50.0	52.9	
$ 100 4-Bromofluorobenzene	174	10.318	10.318	0.000	0	219928	50.0	50.7	
101 Bromobenzene	156	10.428	10.428	0.000	95	175116	50.0	48.9	
102 1,1,2,2-Tetrachloroethane	83	10.446	10.446	0.000	98	153232	50.0	49.0	
103 N-Propylbenzene	91	10.470	10.470	0.000	100	775883	50.0	51.2	
104 1,2,3-Trichloropropane	110	10.489	10.489	0.000	97	44762	50.0	48.7	
105 trans-1,4-Dichloro-2-buten	53	10.495	10.495	0.000	80	34907	50.0	48.6	
106 4-Ethyltoluene	105	10.556	10.556	0.000	98	669986	50.0	51.9	
107 2-Chlorotoluene	91	10.562	10.562	0.000	97	519444	50.0	50.8	
108 1,3,5-Trimethylbenzene	105	10.604	10.604	0.000	94	581299	50.0	51.9	
109 4-Chlorotoluene	91	10.653	10.653	0.000	96	430354	50.0	49.6	
110 Butyl Methacrylate	87	10.659	10.659	0.000	88	177837	50.0	53.0	
111 tert-Butylbenzene	119	10.842	10.842	0.000	96	503905	50.0	53.3	
112 1,2,4-Trimethylbenzene	105	10.885	10.885	0.000	97	578022	50.0	51.0	
113 sec-Butylbenzene	105	11.001	11.001	0.000	99	757849	50.0	52.6	
114 4-Isopropyltoluene	119	11.104	11.104	0.000	98	672322	50.0	52.8	
115 1,3-Dichlorobenzene	146	11.129	11.129	0.000	99	337951	50.0	50.1	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	92	248223	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	95	337445	50.0	49.6	
118 Benzyl chloride	126	11.299	11.299	0.000	100	59910	50.0	55.2	
119 2,3-Dihydroindene	117	11.360	11.360	0.000	94	654487	50.0	50.6	
120 p-Diethylbenzene	119	11.385	11.385	0.000	95	407096	50.0	52.7	
121 n-Butylbenzene	92	11.403	11.403	0.000	96	333846	50.0	52.1	
122 1,2-Dichlorobenzene	146	11.482	11.482	0.000	99	336193	50.0	49.9	
123 1,2,4,5-Tetramethylbenzene	119	12.013	12.019	-0.006	98	590989	50.0	51.8	
124 1,2-Dibromo-3-Chloropropan	157	12.135	12.135	0.000	90	40999	50.0	50.5	
125 1,3,5-Trichlorobenzene	180	12.263	12.263	0.000	97	294702	50.0	50.8	
126 1,2,4-Trichlorobenzene	180	12.903	12.903	0.000	94	266010	50.0	50.0	
127 Hexachlorobutadiene	225	13.013	13.013	0.000	97	133828	50.0	50.2	
128 Naphthalene	128	13.195	13.195	0.000	99	576586	50.0	47.9	
129 1,2,3-Trichlorobenzene	180	13.482	13.488	-0.006	96	255969	50.0	48.8	
S 130 1,2-Dichloroethene, Total	100				0		100.0	98.2	
S 131 1,3-Dichloropropene, Total	100				0		100.0	101.4	
S 132 Xylenes, Total	100				0		100.0	104.0	
S 133 Total BTEX	1				0		250.0	255.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GASES Li_00261	Amount Added:	5.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	5.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 24-May-2018 15:16:09 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50571.D

Injection Date: 24-May-2018 03:41:30 Instrument ID: CVOAMS4 Operator ID:

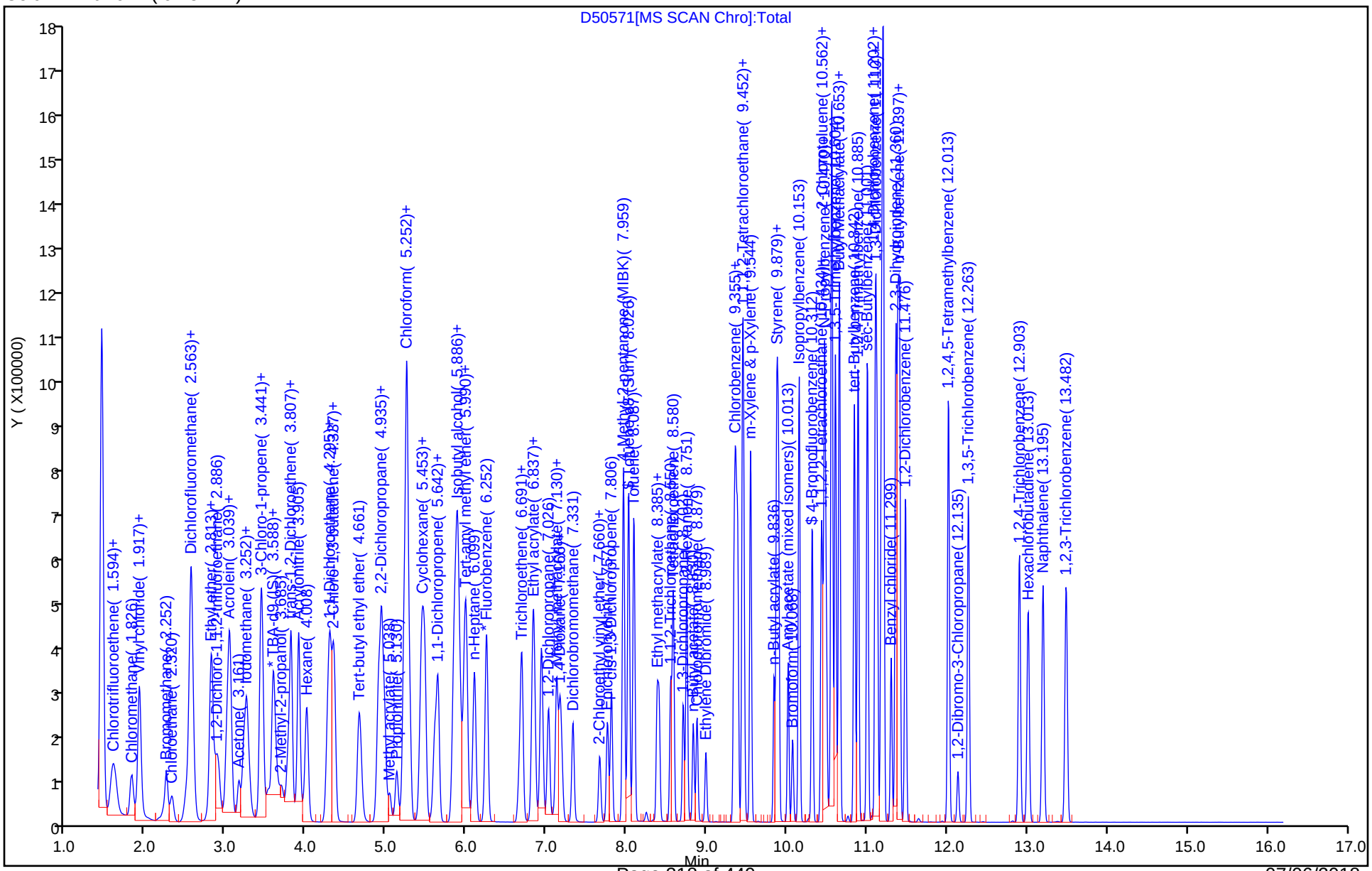
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

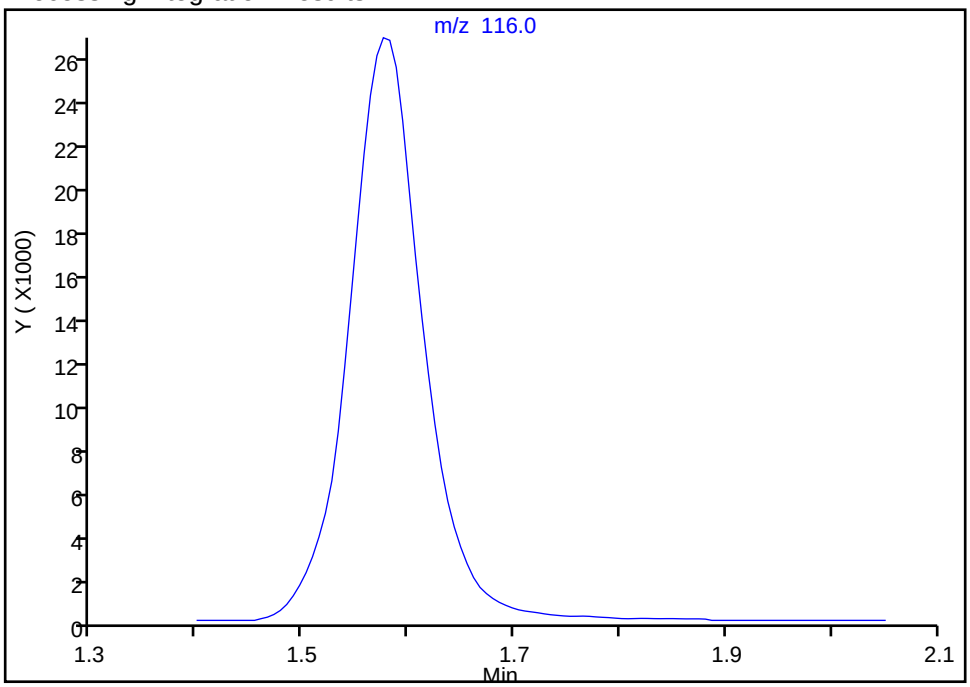
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50571.D
Injection Date: 24-May-2018 03:41:30 Instrument ID: CVOAMS4
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

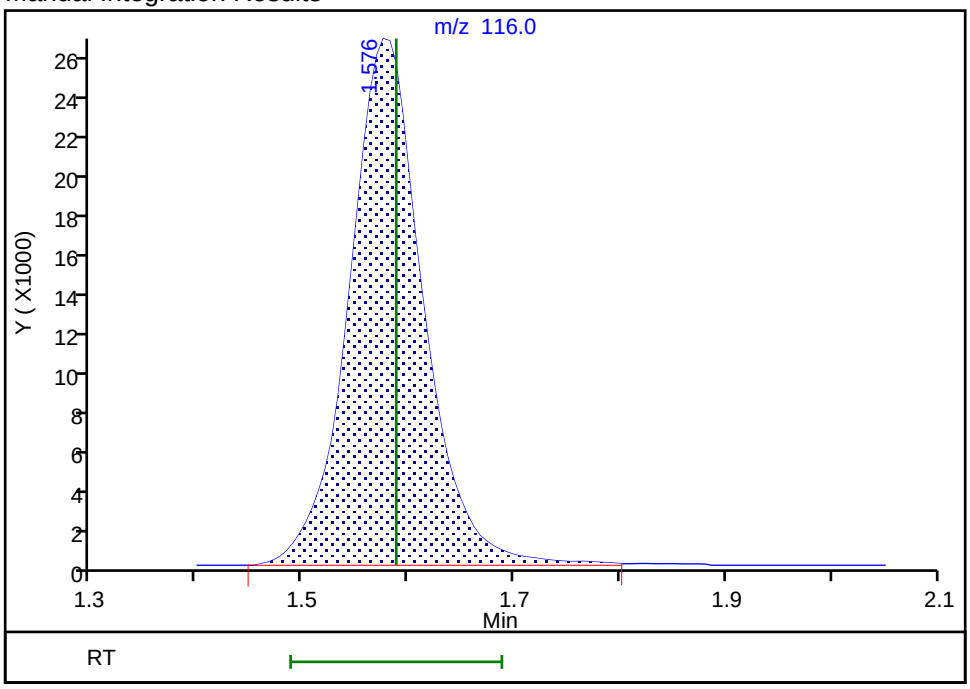
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 129716
Amount: 45.758592
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:30:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

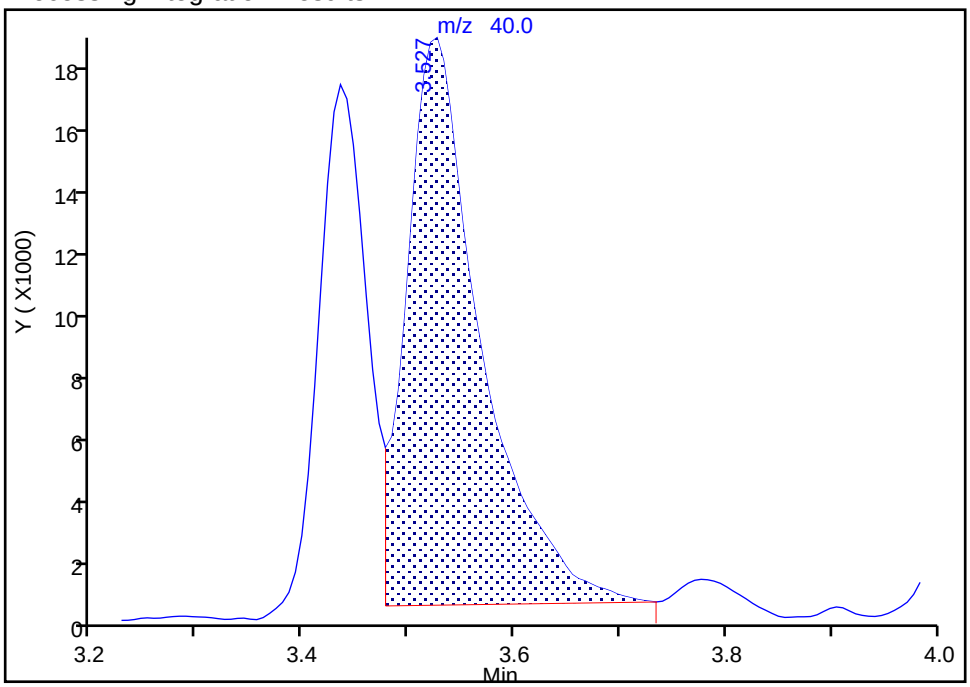
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50571.D
Injection Date: 24-May-2018 03:41:30 Instrument ID: CVOAMS4
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

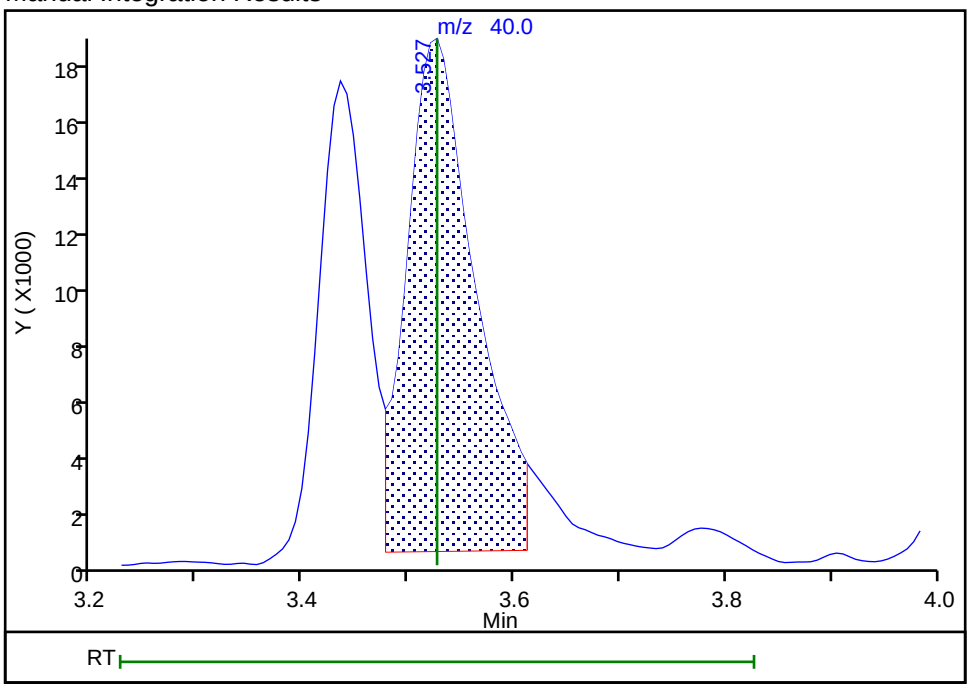
Processing Integration Results

RT: 3.53
Area: 87432
Amount: 518.0541
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 81361
Amount: 518.6854
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:49:42
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50572.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 24-May-2018 04:06:30 ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0072566-008
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:16:18 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 24-May-2018 14:32:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.582	1.588	-0.006	88	629546	200.0	202.0	a
2 Dichlorodifluoromethane	85	1.618	1.618	0.000	99	1219507	200.0	226.2	
3 Chloromethane	50	1.826	1.832	-0.006	97	941546	200.0	208.1	
5 Butadiene	54	1.923	1.929	-0.006	98	782370	200.0	219.6	
4 Vinyl chloride	62	1.935	1.935	0.000	97	824215	200.0	209.0	
6 Bromomethane	94	2.265	2.271	-0.006	99	601386	200.0	201.8	
7 Chloroethane	64	2.332	2.338	-0.006	99	434877	200.0	199.8	
8 Dichlorofluoromethane	67	2.569	2.576	-0.007	99	1229327	200.0	199.9	
10 Pentane	72	2.569	2.576	-0.007	96	227851	400.0	394.4	
9 Trichlorofluoromethane	101	2.576	2.582	-0.006	98	1057489	200.0	215.0	
11 Ethyl ether	59	2.801	2.807	-0.006	97	441241	200.0	190.2	
12 Ethanol	46	2.807	2.813	-0.006	81	124145	8000.0	7590.4	
13 2-Methyl-1,3-butadiene	53	2.826	2.826	0.000	97	511747	200.0	202.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.899	2.905	-0.006	88	619337	200.0	203.9	
16 Acrolein	56	3.008	3.015	-0.006	96	222352	500.0	547.5	
15 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.051	-0.006	97	735194	200.0	217.4	
17 1,1-Dichloroethene	96	3.057	3.057	0.000	97	670994	200.0	206.1	
18 Acetone	43	3.155	3.161	-0.006	90	709888	1000.0	883.6	
19 Iodomethane	142	3.234	3.234	0.000	97	1560915	200.0	202.2	
20 Carbon disulfide	76	3.264	3.271	-0.007	99	2453996	200.0	214.0	
21 Isopropyl alcohol	45	3.289	3.289	0.000	99	422976	2000.0	1880.0	
22 3-Chloro-1-propene	76	3.429	3.435	-0.006	89	396543	200.0	204.0	
24 Methyl acetate	43	3.453	3.453	0.000	96	716046	400.0	338.8	
23 Cyclopentene	67	3.453	3.453	0.000	91	1447012	200.0	201.7	
25 Acetonitrile	40	3.527	3.527	0.000	97	314331	2000.0	1990.5	M
26 Methylene Chloride	84	3.594	3.594	0.000	89	707346	200.0	183.7	
* 27 TBA-d9 (IS)	65	3.612	3.606	0.006	39	373926	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.691	3.691	0.000	99	750932	2000.0	1844.1	
29 Methyl tert-butyl ether	73	3.789	3.795	-0.006	96	1665068	200.0	194.8	
30 trans-1,2-Dichloroethene	96	3.813	3.819	-0.006	93	703473	200.0	197.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.905	3.911	-0.006	94	1871876	2000.0	1993.8	
32 Hexane	57	4.008	4.008	0.000	92	895853	200.0	215.2	
33 Isopropyl ether	45	4.276	4.276	0.000	94	1670715	200.0	188.5	
34 1,1-Dichloroethane	63	4.301	4.301	0.000	99	1069581	200.0	194.9	
35 Vinyl acetate	86	4.331	4.331	0.000	99	242928	400.0	417.5	
36 2-Chloro-1,3-butadiene	88	4.356	4.356	0.000	89	584417	200.0	198.9	
37 Tert-butyl ethyl ether	59	4.667	4.667	0.000	90	1658142	200.0	194.1	
* 38 2-Butanone-d5	46	4.898	4.898	0.000	0	300360	250.0	250.0	
39 2,2-Dichloropropane	79	4.917	4.910	0.007	93	301478	200.0	196.4	
40 cis-1,2-Dichloroethene	96	4.941	4.941	0.000	98	767468	200.0	187.4	
41 2-Butanone (MEK)	72	4.965	4.965	0.000	99	327751	1000.0	999.4	
42 Ethyl acetate	70	4.984	4.984	0.000	97	119580	400.0	436.1	
43 Methyl acrylate	55	5.038	5.045	-0.007	100	458185	200.0	190.5	
44 Propionitrile	54	5.130	5.130	0.000	98	717215	2000.0	1708.6	
45 Tetrahydrofuran	72	5.209	5.215	-0.006	94	144158	400.0	388.4	
46 Chlorobromomethane	128	5.221	5.221	0.000	79	400329	200.0	197.2	
47 Methacrylonitrile	67	5.258	5.252	0.006	91	2138694	2000.0	1844.0	
48 Chloroform	83	5.295	5.295	0.000	99	1093579	200.0	198.8	
49 Cyclohexane	84	5.441	5.441	0.000	89	1008217	200.0	216.6	
50 1,1,1-Trichloroethane	97	5.465	5.465	0.000	98	970750	200.0	207.3	
$ 51 Dibromofluoromethane (Surr	113	5.484	5.484	0.000	99	188133	50.0	50.9	
52 Carbon tetrachloride	117	5.605	5.605	0.000	97	878242	200.0	213.0	
53 1,1-Dichloropropene	75	5.642	5.648	-0.006	97	894255	200.0	208.2	
54 Isobutyl alcohol	43	5.837	5.837	0.000	92	1117461	5000.0	5517.9	
55 Benzene	78	5.886	5.886	0.000	96	2435679	200.0	188.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.910	5.910	0.000	97	163380	50.0	50.9	
57 Tert-amyl methyl ether	87	5.983	5.983	0.000	91	545486	200.0	201.6	
58 Isopropyl acetate	43	5.983	5.983	0.000	97	1580271	200.0	190.2	
59 1,2-Dichloroethane	62	6.008	6.008	0.000	96	731084	200.0	193.7	
60 n-Heptane	57	6.099	6.099	0.000	90	513182	200.0	220.6	
* 61 Fluorobenzene	96	6.252	6.252	0.000	99	623089	50.0	50.0	
62 n-Butanol	56	6.660	6.660	0.000	86	461341	5000.0	5522.9	
63 Trichloroethene	95	6.691	6.691	0.000	95	662608	200.0	201.3	
64 Methylcyclohexane	83	6.837	6.837	0.000	93	1230752	200.0	219.3	
65 Ethyl acrylate	73	6.855	6.855	0.000	98	49782	200.0	229.0	
66 1,2-Dichloropropane	63	7.026	7.026	0.000	92	596439	200.0	206.8	
* 67 1,4-Dioxane-d8	96	7.093	7.093	0.000	0	36465	1000.0	1000.0	
68 Methyl methacrylate	100	7.130	7.123	0.007	86	311645	400.0	428.1	
69 1,4-Dioxane	88	7.160	7.154	0.006	86	145311	4000.0	3719.7	
70 Dibromomethane	93	7.166	7.166	0.000	90	399314	200.0	201.2	
71 n-Propyl acetate	43	7.191	7.191	-0.001	98	702666	200.0	198.7	
72 Dichlorobromomethane	83	7.331	7.331	0.000	99	816495	200.0	217.8	
73 2-Nitropropane	41	7.660	7.660	0.000	98	237598	400.0	378.9	
74 2-Chloroethyl vinyl ether	63	7.666	7.666	0.000	94	206212	200.0	215.9	
75 Epichlorohydrin	57	7.764	7.757	0.007	98	1021667	4000.0	4268.0	
76 cis-1,3-Dichloropropene	75	7.812	7.806	0.006	89	934401	200.0	212.3	
77 4-Methyl-2-pentanone (MIBK	43	7.959	7.959	0.000	95	2413688	1000.0	1046.3	
$ 78 Toluene-d8 (Surr)	98	8.026	8.026	0.000	99	649194	50.0	50.0	
79 Toluene	91	8.093	8.087	0.006	93	2599312	200.0	192.2	
80 trans-1,3-Dichloropropene	75	8.379	8.379	0.000	97	767053	200.0	208.3	
81 Ethyl methacrylate	69	8.404	8.404	0.000	91	662948	200.0	211.8	
82 1,1,2-Trichloroethane	83	8.550	8.550	0.000	96	421830	200.0	194.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.580	8.580	0.000	97	842226	200.0	207.8	
84 1,3-Dichloropropane	76	8.709	8.702	0.006	90	813291	200.0	204.0	
85 2-Hexanone	43	8.745	8.751	-0.006	95	1559833	1000.0	1050.1	
86 n-Butyl acetate	73	8.830	8.830	0.000	99	130742	200.0	188.2	
87 Chlorodibromomethane	129	8.879	8.879	0.000	98	654699	200.0	215.8	
88 Ethylene Dibromide	107	8.989	8.989	0.000	99	525835	200.0	202.4	
* 89 Chlorobenzene-d5	117	9.361	9.361	0.000	87	489144	50.0	50.0	
90 Chlorobenzene	112	9.385	9.385	0.000	97	1751197	200.0	196.9	
91 Ethylbenzene	106	9.446	9.446	0.000	98	961271	200.0	201.9	
92 1,1,1,2-Tetrachloroethane	131	9.458	9.458	0.000	97	716022	200.0	210.3	
93 m-Xylene & p-Xylene	106	9.544	9.544	0.000	100	1205750	200.0	203.8	
94 n-Butyl acrylate	73	9.836	9.836	0.000	98	360912	200.0	196.6	
95 o-Xylene	106	9.873	9.873	0.000	95	1175273	200.0	202.5	
96 Styrene	104	9.897	9.891	0.006	97	1918055	200.0	206.0	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	91	777457	200.0	186.5	
98 Bromoform	173	10.068	10.068	0.000	99	453168	200.0	216.5	
99 Isopropylbenzene	105	10.153	10.153	0.000	95	3195648	200.0	206.7	
$ 100 4-Bromofluorobenzene	174	10.318	10.318	0.000	0	250845	50.0	50.1	
101 Bromobenzene	156	10.428	10.428	0.000	88	802321	200.0	194.2	
102 1,1,2,2-Tetrachloroethane	83	10.446	10.446	0.000	98	707134	200.0	195.8	
103 N-Propylbenzene	91	10.470	10.470	0.000	100	3624487	200.0	207.4	
104 1,2,3-Trichloropropane	110	10.489	10.489	0.000	97	205203	200.0	193.6	
105 trans-1,4-Dichloro-2-buten	53	10.495	10.495	0.000	89	163062	200.0	196.8	
106 4-Ethyltoluene	105	10.556	10.556	0.000	99	3061164	200.0	205.6	
107 2-Chlorotoluene	91	10.562	10.562	0.000	97	2465942	200.0	209.0	
108 1,3,5-Trimethylbenzene	105	10.604	10.604	0.000	94	2827991	200.0	218.8	
109 4-Chlorotoluene	91	10.653	10.653	0.000	96	2033741	200.0	203.0	
110 Butyl Methacrylate	87	10.659	10.659	0.000	89	830131	200.0	214.5	
111 tert-Butylbenzene	119	10.842	10.842	0.000	96	2434819	200.0	223.4	
112 1,2,4-Trimethylbenzene	105	10.891	10.885	0.006	96	2769308	200.0	211.8	
113 sec-Butylbenzene	105	11.007	11.001	0.006	99	3622519	200.0	217.7	
114 4-Isopropyltoluene	119	11.104	11.104	0.000	98	3135406	200.0	213.5	
115 1,3-Dichlorobenzene	146	11.129	11.129	0.000	98	1559212	200.0	200.4	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	90	286402	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	97	1547892	200.0	197.1	
118 Benzyl chloride	126	11.299	11.299	0.000	100	281849	200.0	225.0	
119 2,3-Dihydroindene	117	11.360	11.360	0.000	94	3006315	200.0	212.5	
120 p-Diethylbenzene	119	11.385	11.385	0.000	94	1847274	200.0	207.4	
121 n-Butylbenzene	92	11.403	11.403	0.000	96	1545582	200.0	208.9	
122 1,2-Dichlorobenzene	146	11.482	11.482	0.000	98	1565915	200.0	201.4	
123 1,2,4,5-Tetramethylbenzene	119	12.013	12.019	-0.006	98	2782042	200.0	211.2	
124 1,2-Dibromo-3-Chloropropan	157	12.135	12.135	0.000	91	190634	200.0	203.6	
125 1,3,5-Trichlorobenzene	180	12.263	12.263	0.000	97	1290906	200.0	192.7	
126 1,2,4-Trichlorobenzene	180	12.903	12.903	0.000	94	1152610	200.0	187.8	
127 Hexachlorobutadiene	225	13.013	13.013	0.000	96	626054	200.0	203.7	
128 Naphthalene	128	13.195	13.195	0.000	99	2647090	200.0	190.6	
129 1,2,3-Trichlorobenzene	180	13.482	13.488	-0.006	96	1137586	200.0	188.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	385.0	
S 131 1,3-Dichloropropene, Total	100				0		400.0	420.6	
S 132 Xylenes, Total	100				0		400.0	406.4	
S 133 Total BTEX	1				0		1000.0	988.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	5.00	Units: uL	
GASES Li_00261	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	20.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 24-May-2018 15:16:26 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50572.D

Injection Date: 24-May-2018 04:06:30 Instrument ID: CVOAMS4 Operator ID:

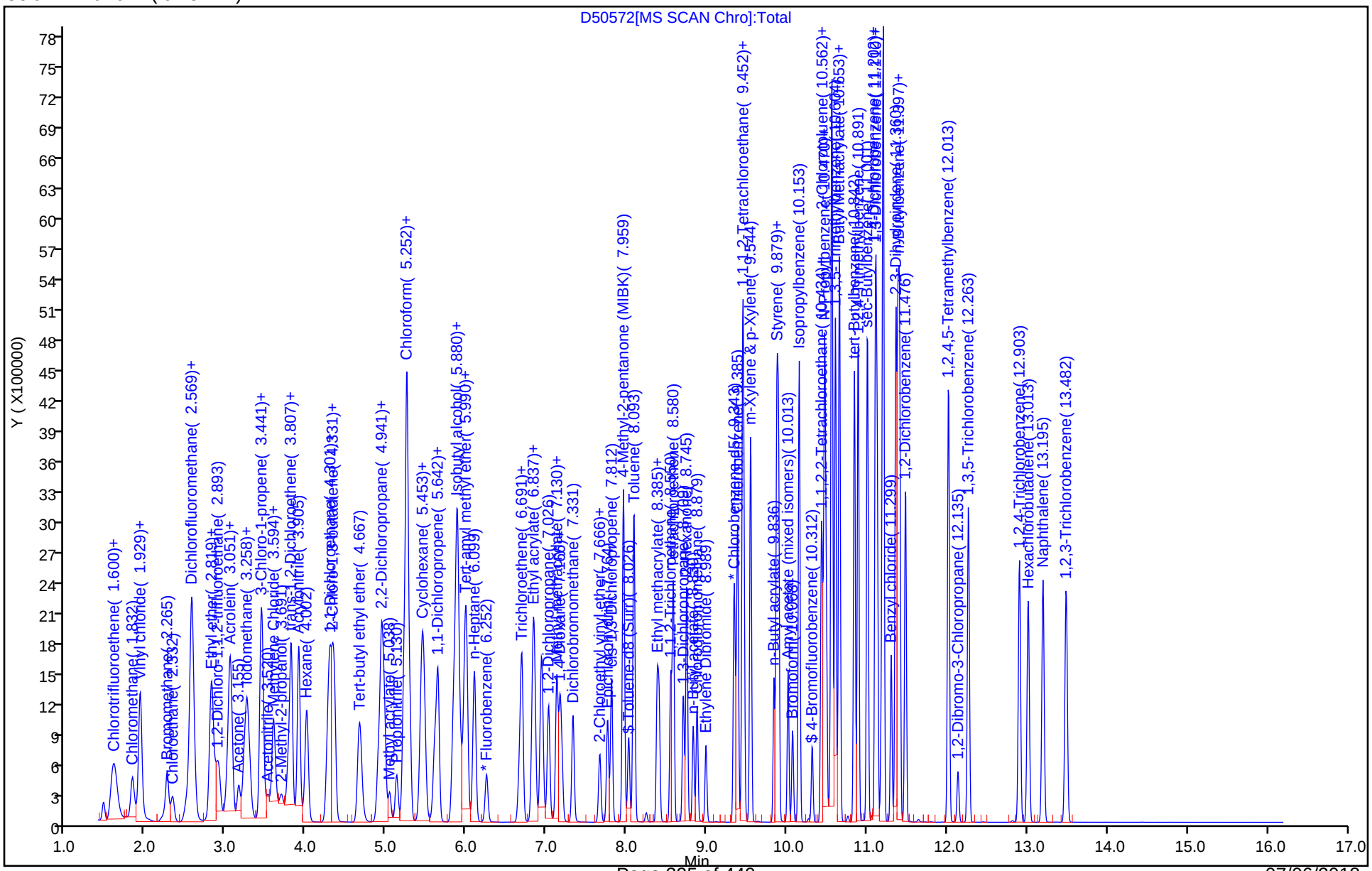
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 9

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

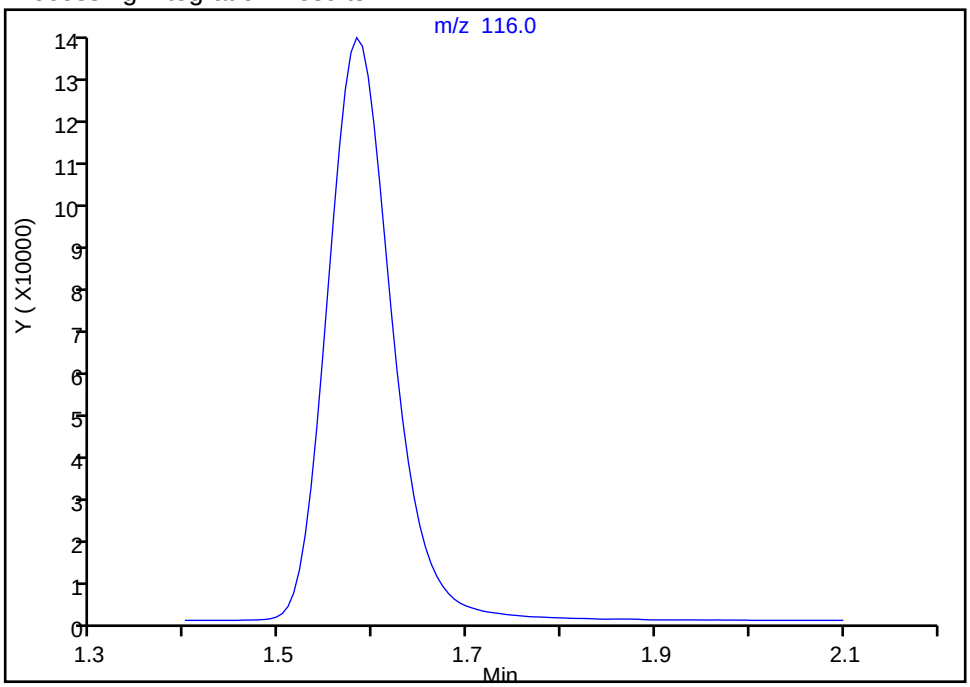
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50572.D
Injection Date: 24-May-2018 04:06:30 Instrument ID: CVOAMS4
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

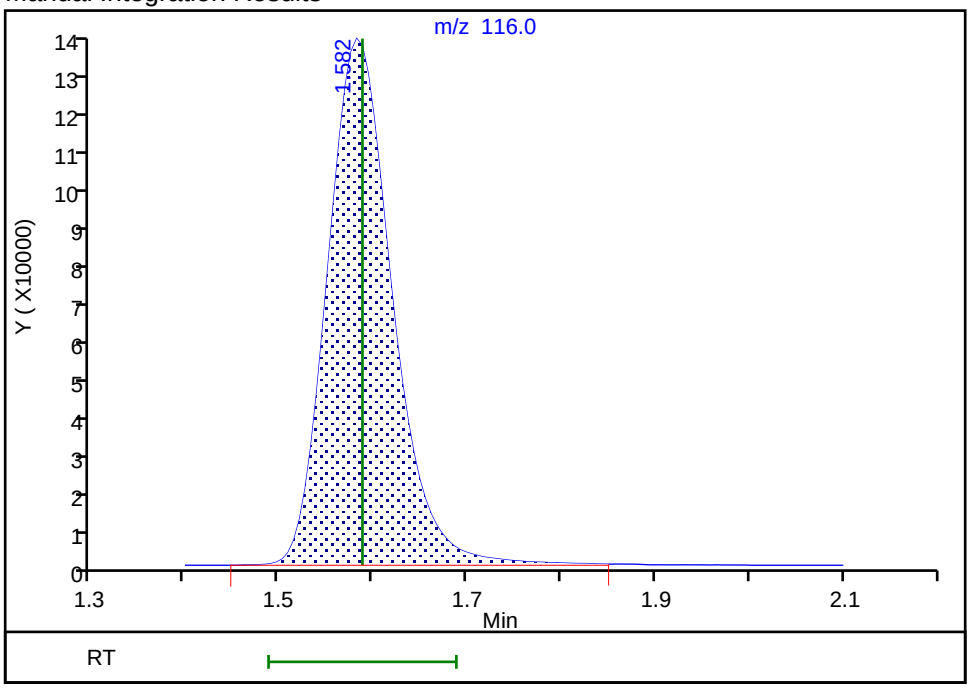
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 629546
Amount: 202.0219
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:31:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

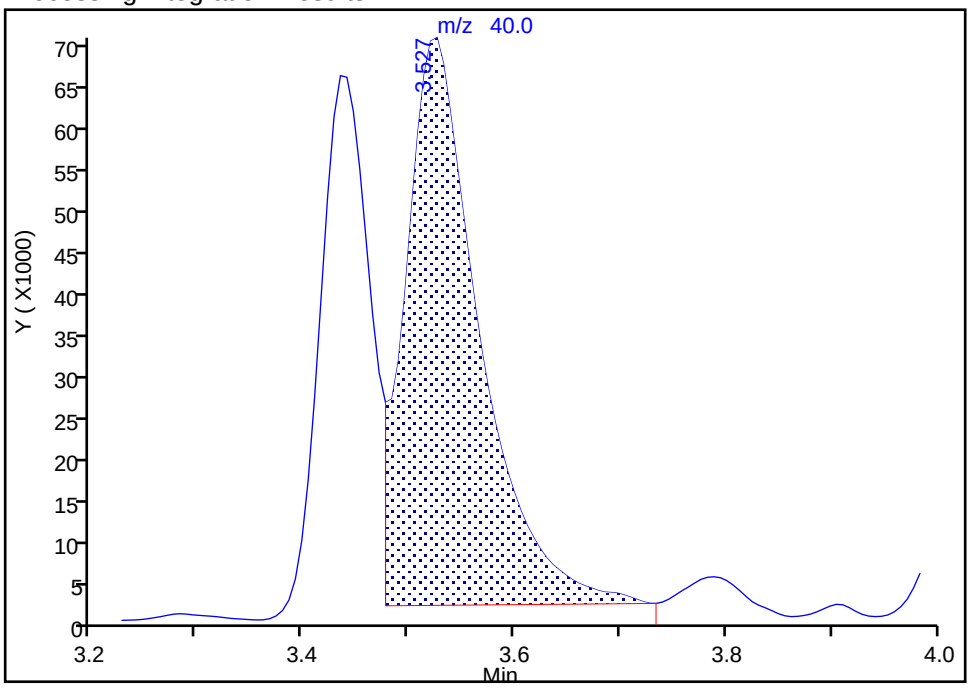
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50572.D
Injection Date: 24-May-2018 04:06:30 Instrument ID: CVOAMS4
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 9 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

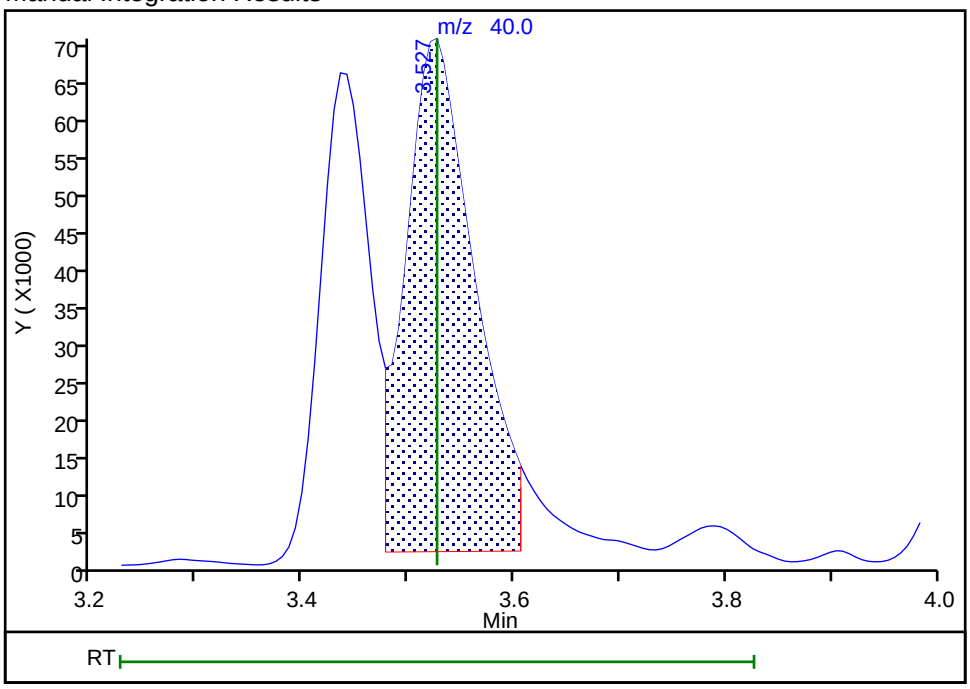
Processing Integration Results

RT: 3.53
Area: 336245
Amount: 2004.5523
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 314331
Amount: 1990.4788
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:50:09
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 24-May-2018 04:30:30 ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0072566-009
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:16:35 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: starzecm Date: 24-May-2018 12:09:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.582	1.588	-0.006	89	1604210	500.0	499.7	a
2 Dichlorodifluoromethane	85	1.612	1.618	-0.006	99	3072813	500.0	557.7	
3 Chloromethane	50	1.826	1.832	-0.006	97	2382616	500.0	515.3	
5 Butadiene	54	1.929	1.929	0.000	99	1977175	500.0	543.1	
4 Vinyl chloride	62	1.929	1.935	-0.006	97	2064698	500.0	512.2	
6 Bromomethane	94	2.259	2.271	-0.012	98	1335908	500.0	438.6	
7 Chloroethane	64	2.332	2.338	-0.006	99	1027571	500.0	461.9	
10 Pentane	72	2.582	2.576	0.006	96	580308	1000.0	983.0	
8 Dichlorofluoromethane	67	2.570	2.576	-0.006	99	3028144	500.0	481.9	
9 Trichlorofluoromethane	101	2.576	2.582	-0.006	97	2585959	500.0	514.5	
11 Ethyl ether	59	2.801	2.807	-0.006	91	1045436	500.0	441.1	
12 Ethanol	46	2.807	2.813	-0.006	97	332609	20000	19356	
13 2-Methyl-1,3-butadiene	53	2.826	2.826	0.000	97	1270947	500.0	492.2	
14 1,2-Dichloro-1,1,2-trifluo	117	2.905	2.905	0.000	86	1533409	500.0	494.1	
16 Acrolein	56	3.015	3.015	0.001	96	278170	600.0	652.0	
15 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.051	-0.006	97	1864500	500.0	539.5	
17 1,1-Dichloroethene	96	3.063	3.057	0.006	97	1722609	500.0	517.9	
18 Acetone	43	3.155	3.161	-0.006	87	1833937	2500.0	2155.7	
19 Iodomethane	142	3.240	3.234	0.006	99	3903922	500.0	495.0	
20 Carbon disulfide	76	3.277	3.271	0.006	99	6453101	500.0	550.7	
21 Isopropyl alcohol	45	3.295	3.289	0.006	99	1189444	5000.0	5032.0	
22 3-Chloro-1-propene	76	3.429	3.435	-0.006	90	1015606	500.0	511.4	
23 Cyclopentene	67	3.454	3.453	0.001	93	3764201	500.0	513.4	
24 Methyl acetate	43	3.447	3.453	-0.006	98	1853592	1000.0	858.3	
25 Acetonitrile	40	3.527	3.527	0.000	99	851927	5000.0	5001.3	M
26 Methylene Chloride	84	3.594	3.594	0.000	88	1775251	500.0	451.2	
* 27 TBA-d9 (IS)	65	3.618	3.606	0.012	32	392853	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.697	3.691	0.006	99	1984893	5000.0	4639.5	
29 Methyl tert-butyl ether	73	3.789	3.795	-0.006	97	4113411	500.0	471.0	
30 trans-1,2-Dichloroethene	96	3.813	3.819	-0.006	93	1770727	500.0	486.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.911	3.911	0.000	96	4918651	5000.0	4986.5	
32 Hexane	57	4.002	4.008	-0.006	93	2255500	500.0	530.3	
33 Isopropyl ether	45	4.277	4.276	0.001	94	4182777	500.0	461.8	
34 1,1-Dichloroethane	63	4.301	4.301	0.000	99	2655194	500.0	473.5	
35 Vinyl acetate	86	4.331	4.331	0.000	99	611050	1000.0	1027.7	
36 2-Chloro-1,3-butadiene	88	4.356	4.356	0.000	89	1493075	500.0	497.3	
37 Tert-butyl ethyl ether	59	4.667	4.667	0.000	90	4180508	500.0	478.9	
* 38 2-Butanone-d5	46	4.898	4.898	0.000	0	318069	250.0	250.0	a
39 2,2-Dichloropropane	79	4.923	4.910	0.013	94	762596	500.0	486.0	
40 cis-1,2-Dichloroethene	96	4.941	4.941	0.000	98	1923602	500.0	459.6	
41 2-Butanone (MEK)	72	4.965	4.965	0.000	99	872234	2500.0	2511.6	
42 Ethyl acetate	70	4.984	4.984	0.000	97	317610	1000.0	1093.9	
43 Methyl acrylate	55	5.039	5.045	-0.006	100	1115826	500.0	454.1	
44 Propionitrile	54	5.130	5.130	0.000	98	1891359	5000.0	4409.2	
45 Tetrahydrofuran	72	5.209	5.215	-0.006	86	382795	1000.0	974.0	
46 Chlorobromomethane	128	5.221	5.221	0.000	78	983947	500.0	474.2	
47 Methacrylonitrile	67	5.264	5.252	0.012	91	5619082	5000.0	4740.9	
48 Chloroform	83	5.295	5.295	0.000	99	2763821	500.0	491.7	
49 Cyclohexane	84	5.447	5.441	0.006	92	2617813	500.0	550.4	
50 1,1,1-Trichloroethane	97	5.465	5.465	0.000	98	2504752	500.0	523.3	
$ 51 Dibromofluoromethane (Surr	113	5.484	5.484	0.000	99	190134	50.0	50.3	
52 Carbon tetrachloride	117	5.612	5.605	0.007	97	2295302	500.0	544.8	
53 1,1-Dichloropropene	75	5.642	5.648	-0.006	97	2348154	500.0	534.9	
54 Isobutyl alcohol	43	5.843	5.837	0.006	92	3086249	12500	14505	
55 Benzene	78	5.886	5.886	0.000	96	6239816	500.0	442.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.910	5.910	0.000	89	178843	50.0	54.5	
58 Isopropyl acetate	43	5.990	5.983	0.007	95	3994549	500.0	470.4	
57 Tert-amyl methyl ether	87	5.990	5.983	0.007	84	1403274	500.0	507.4	
59 1,2-Dichloroethane	62	6.008	6.008	0.000	97	1827823	500.0	473.9	
60 n-Heptane	57	6.099	6.099	0.000	90	1332635	500.0	560.6	
* 61 Fluorobenzene	96	6.252	6.252	0.000	99	636731	50.0	50.0	
62 n-Butanol	56	6.666	6.660	0.006	86	1304803	12500	14868	
63 Trichloroethene	95	6.691	6.691	0.000	95	1704102	500.0	506.7	
64 Methylcyclohexane	83	6.837	6.837	0.000	91	3219589	500.0	561.5	
65 Ethyl acrylate	73	6.855	6.855	0.000	98	129838	500.0	584.6	
66 1,2-Dichloropropane	63	7.026	7.026	0.000	93	1528900	500.0	518.6	
* 67 1,4-Dioxane-d8	96	7.099	7.093	0.006	0	40937	1000.0	1000.0	a
68 Methyl methacrylate	100	7.130	7.123	0.007	86	832987	1000.0	1119.8	
69 1,4-Dioxane	88	7.160	7.154	0.006	86	408607	10000	9317.0	
70 Dibromomethane	93	7.166	7.166	0.000	91	1023468	500.0	504.6	
71 n-Propyl acetate	43	7.191	7.191	0.000	98	1918559	500.0	531.0	
72 Dichlorobromomethane	83	7.331	7.331	0.000	99	2149454	500.0	561.0	
73 2-Nitropropane	41	7.660	7.660	0.000	97	650742	1000.0	1015.4	
74 2-Chloroethyl vinyl ether	63	7.672	7.666	0.006	93	577619	500.0	591.8	
75 Epichlorohydrin	57	7.764	7.757	0.007	98	2788038	10000	10999	
76 cis-1,3-Dichloropropene	75	7.812	7.806	0.006	89	2447658	500.0	511.0	
77 4-Methyl-2-pentanone (MIBK	43	7.959	7.959	0.000	95	6163448	2500.0	2523.0	
$ 78 Toluene-d8 (Surr)	98	8.026	8.026	0.000	99	681058	50.0	48.3	
79 Toluene	91	8.093	8.087	0.006	93	6806967	500.0	462.7	
80 trans-1,3-Dichloropropene	75	8.379	8.379	0.000	98	2072032	500.0	517.2	
81 Ethyl methacrylate	69	8.404	8.404	0.000	91	1758531	500.0	549.7	
82 1,1,2-Trichloroethane	83	8.550	8.550	0.000	96	1122821	500.0	475.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.581	8.580	0.001	96	2210758	500.0	501.4	
84 1,3-Dichloropropane	76	8.709	8.702	0.007	89	2201800	500.0	507.6	
85 2-Hexanone	43	8.751	8.751	0.000	95	4286307	2500.0	2725.0	
86 n-Butyl acetate	73	8.831	8.830	0.001	99	355682	500.0	470.6	
87 Chlorodibromomethane	129	8.879	8.879	0.000	98	1783151	500.0	540.1	
88 Ethylene Dibromide	107	8.989	8.989	0.000	98	1461643	500.0	517.0	
* 89 Chlorobenzene-d5	117	9.361	9.361	0.000	85	532238	50.0	50.0	
90 Chlorobenzene	112	9.385	9.385	0.000	97	4701074	500.0	485.9	
91 Ethylbenzene	106	9.446	9.446	0.000	98	2568007	500.0	495.7	
92 1,1,1,2-Tetrachloroethane	131	9.465	9.458	0.007	97	1810623	500.0	488.7	
93 m-Xylene & p-Xylene	106	9.550	9.544	0.006	100	3210701	500.0	498.8	
94 n-Butyl acrylate	73	9.836	9.836	0.000	98	954402	500.0	477.8	
95 o-Xylene	106	9.873	9.873	0.000	95	3058126	500.0	484.4	
96 Styrene	104	9.897	9.891	0.006	97	5114906	500.0	504.9	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	92	2068795	500.0	473.1	
98 Bromoform	173	10.074	10.068	0.006	99	1247173	500.0	547.6	
99 Isopropylbenzene	105	10.153	10.153	0.000	95	8558364	500.0	508.8	
$ 100 4-Bromofluorobenzene	174	10.318	10.318	0.000	0	270442	50.0	51.5	
101 Bromobenzene	156	10.434	10.428	0.006	91	2141920	500.0	494.2	
102 1,1,2,2-Tetrachloroethane	83	10.446	10.446	0.000	99	1927334	500.0	508.8	
103 N-Propylbenzene	91	10.470	10.470	0.000	100	9674966	500.0	528.0	
104 1,2,3-Trichloropropane	110	10.489	10.489	0.000	98	546729	500.0	491.7	
105 trans-1,4-Dichloro-2-buten	53	10.495	10.495	0.000	89	429306	500.0	493.9	
106 4-Ethyltoluene	105	10.556	10.556	0.000	99	7865293	500.0	503.7	
107 2-Chlorotoluene	91	10.562	10.562	0.000	96	6378583	500.0	515.4	
108 1,3,5-Trimethylbenzene	105	10.605	10.604	0.001	93	7325045	500.0	540.5	
109 4-Chlorotoluene	91	10.653	10.653	0.000	96	5385073	500.0	512.4	
110 Butyl Methacrylate	87	10.659	10.659	0.000	88	2150871	500.0	529.8	
111 tert-Butylbenzene	119	10.842	10.842	0.000	94	6381980	500.0	558.3	
112 1,2,4-Trimethylbenzene	105	10.891	10.885	0.006	96	7201053	500.0	525.0	
113 sec-Butylbenzene	105	11.007	11.001	0.006	99	9600067	500.0	550.1	
114 4-Isopropyltoluene	119	11.104	11.104	0.000	98	8141552	500.0	528.5	
115 1,3-Dichlorobenzene	146	11.129	11.129	0.000	98	3811943	500.0	467.0	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	89	300394	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	96	3647047	500.0	442.7	
118 Benzyl chloride	126	11.300	11.299	0.001	100	739377	500.0	562.7	
119 2,3-Dihydroindene	117	11.361	11.360	0.001	94	7657134	500.0	529.6	
120 p-Diethylbenzene	119	11.385	11.385	0.000	94	4543152	500.0	486.3	
121 n-Butylbenzene	92	11.409	11.403	0.006	97	3888448	500.0	501.0	
122 1,2-Dichlorobenzene	146	11.482	11.482	0.000	98	3854350	500.0	472.7	
123 1,2,4,5-Tetramethylbenzene	119	12.019	12.019	0.000	97	7449481	500.0	539.1	
124 1,2-Dibromo-3-Chloropropan	157	12.135	12.135	0.000	95	523145	500.0	532.7	
125 1,3,5-Trichlorobenzene	180	12.269	12.263	0.006	98	3311631	500.0	471.3	
126 1,2,4-Trichlorobenzene	180	12.903	12.903	0.000	94	3003150	500.0	466.6	
127 Hexachlorobutadiene	225	13.013	13.013	0.000	95	1733099	500.0	537.7	
128 Naphthalene	128	13.196	13.195	0.001	99	7081073	500.0	486.2	
129 1,2,3-Trichlorobenzene	180	13.488	13.488	0.000	96	2948041	500.0	464.7	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	946.4	
S 131 1,3-Dichloropropene, Total	100				0		1000.0	1028.2	
S 132 Xylenes, Total	100				0		1000.0	983.2	
S 133 Total BTEX	1				0		2500.0	2384.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	6.00	Units: uL	
GASES Li_00261	Amount Added:	50.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	50.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 24-May-2018 15:16:43 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D

Injection Date: 24-May-2018 04:30:30 Instrument ID: CVOAMS4 Operator ID:

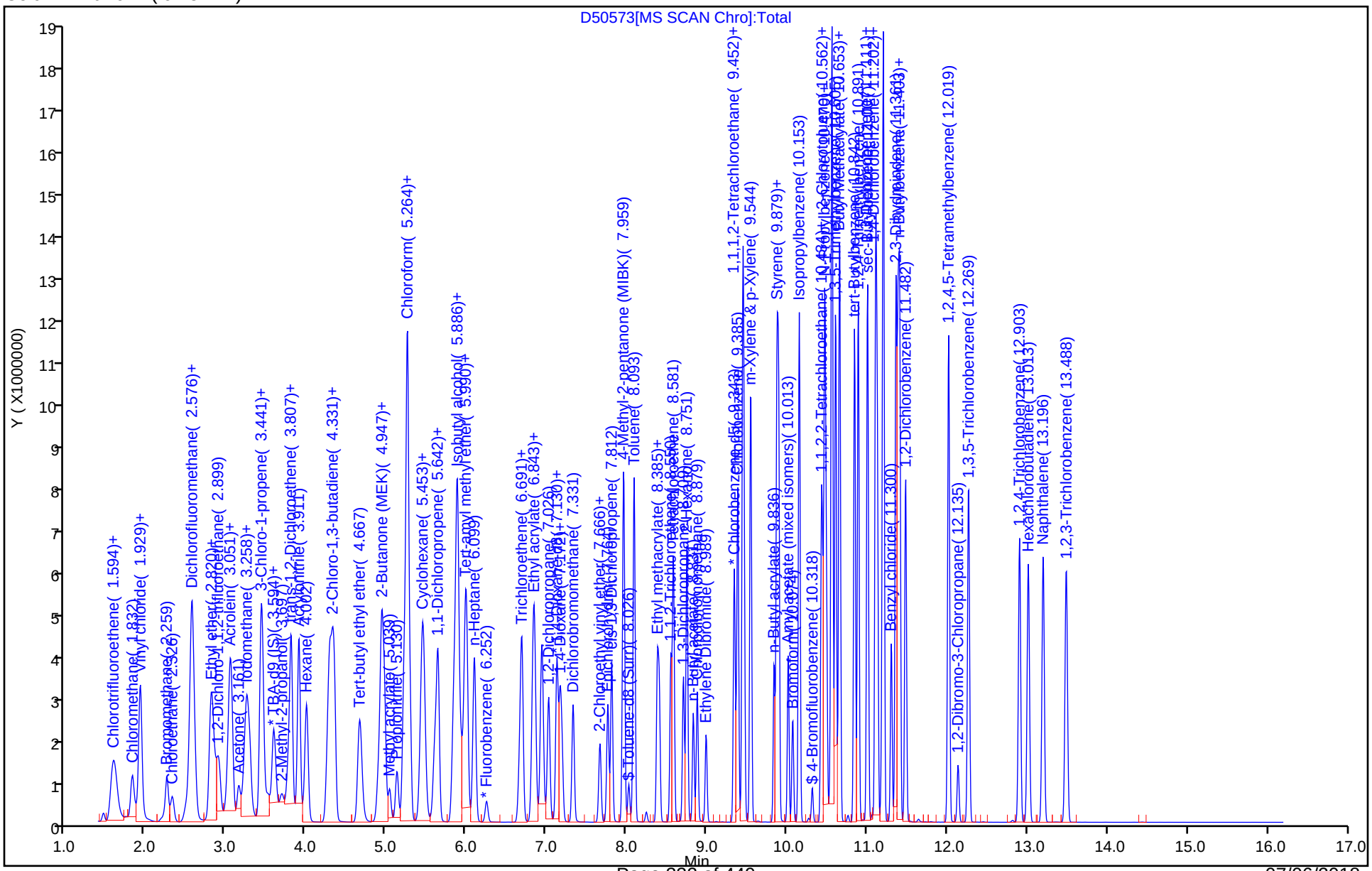
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 10

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

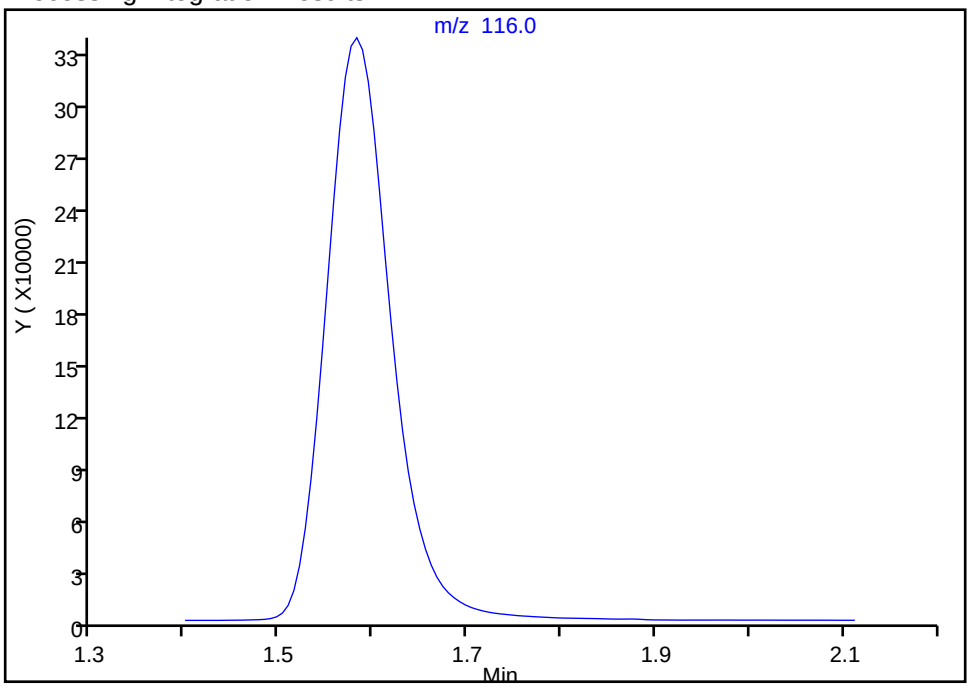
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D
Injection Date: 24-May-2018 04:30:30 Instrument ID: CVOAMS4
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

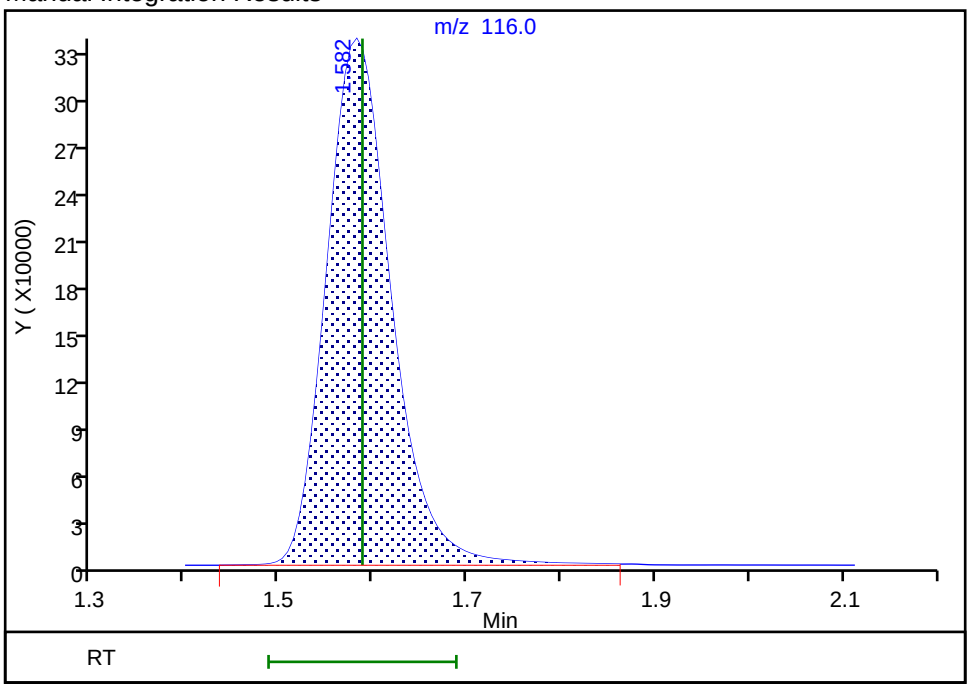
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 1604210
Amount: 499.7270
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:34:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

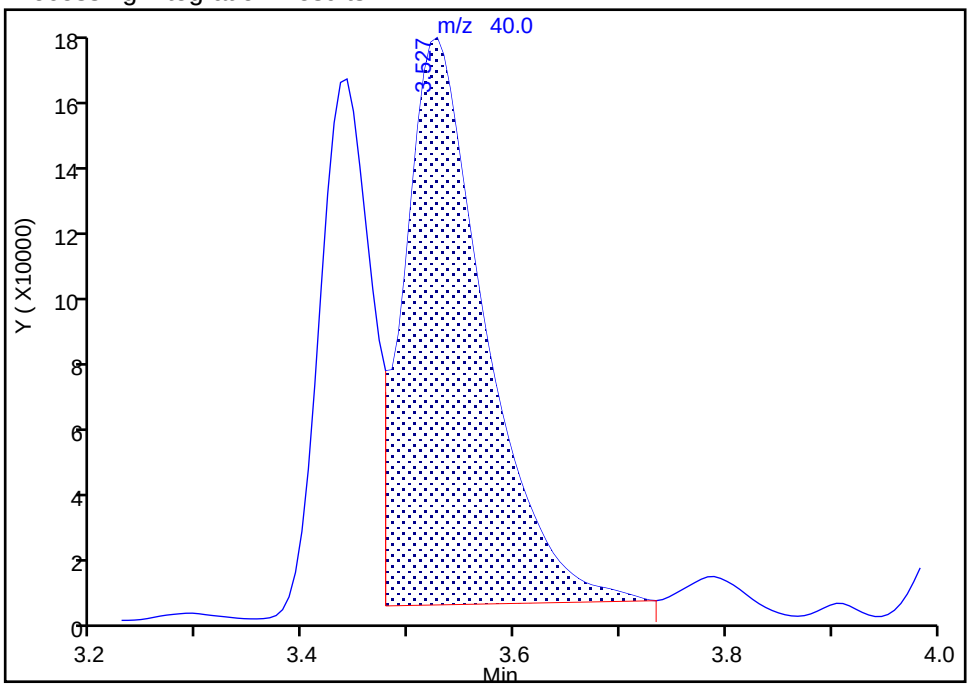
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D
Injection Date: 24-May-2018 04:30:30 Instrument ID: CVOAMS4
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

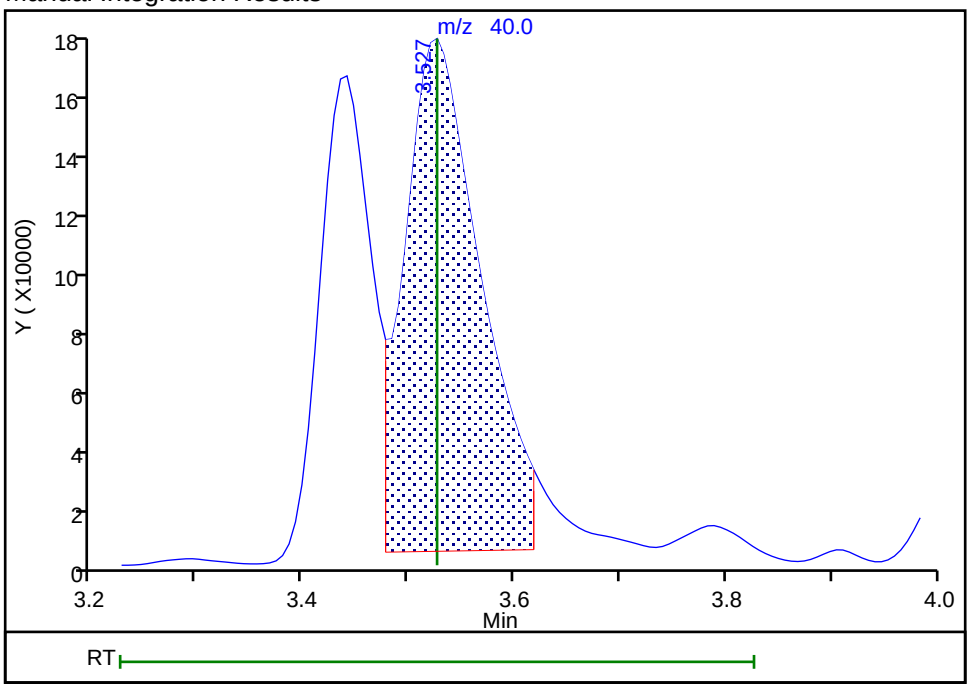
Processing Integration Results

RT: 3.53
Area: 897142
Amount: 5001.7088
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 851927
Amount: 5001.2549
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:50:35
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

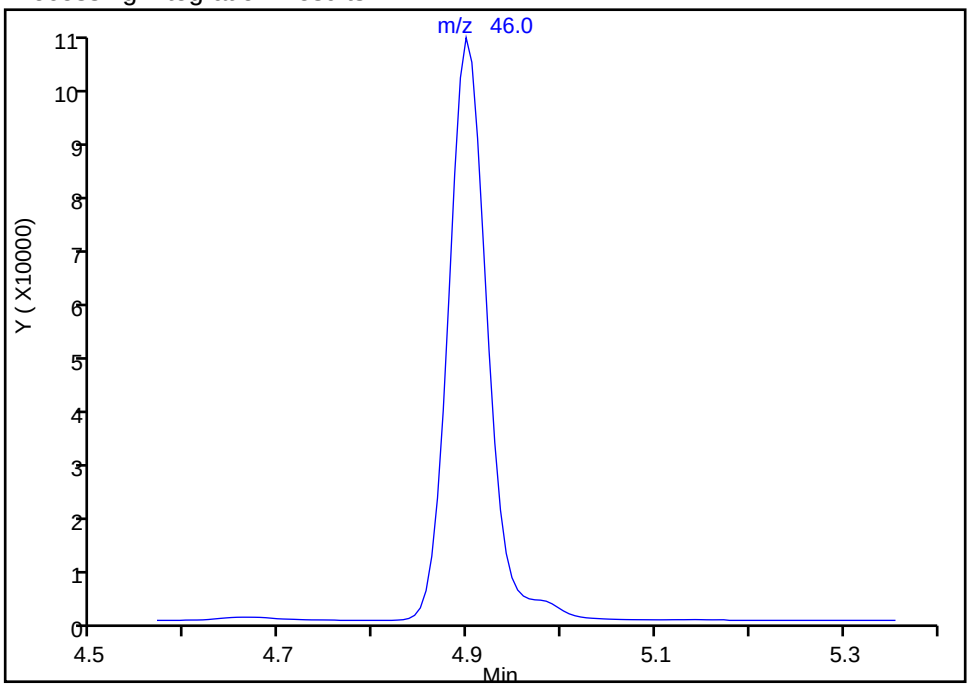
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D
Injection Date: 24-May-2018 04:30:30 Instrument ID: CVOAMS4
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

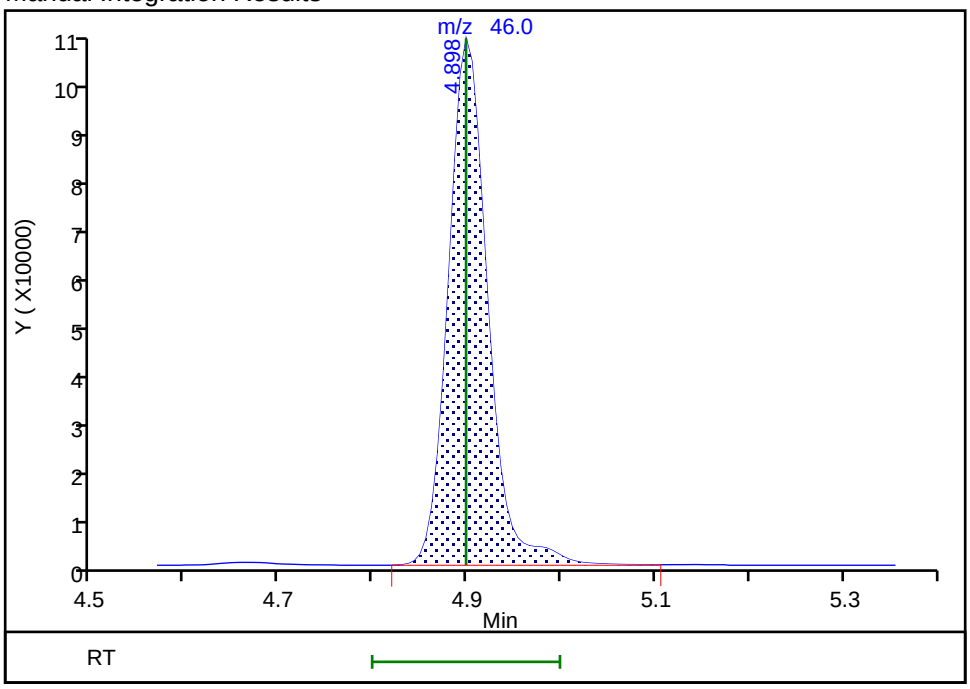
Not Detected
Expected RT: 4.90

Processing Integration Results



Manual Integration Results

RT: 4.90
Area: 318069
Amount: 250.0000
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:34:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

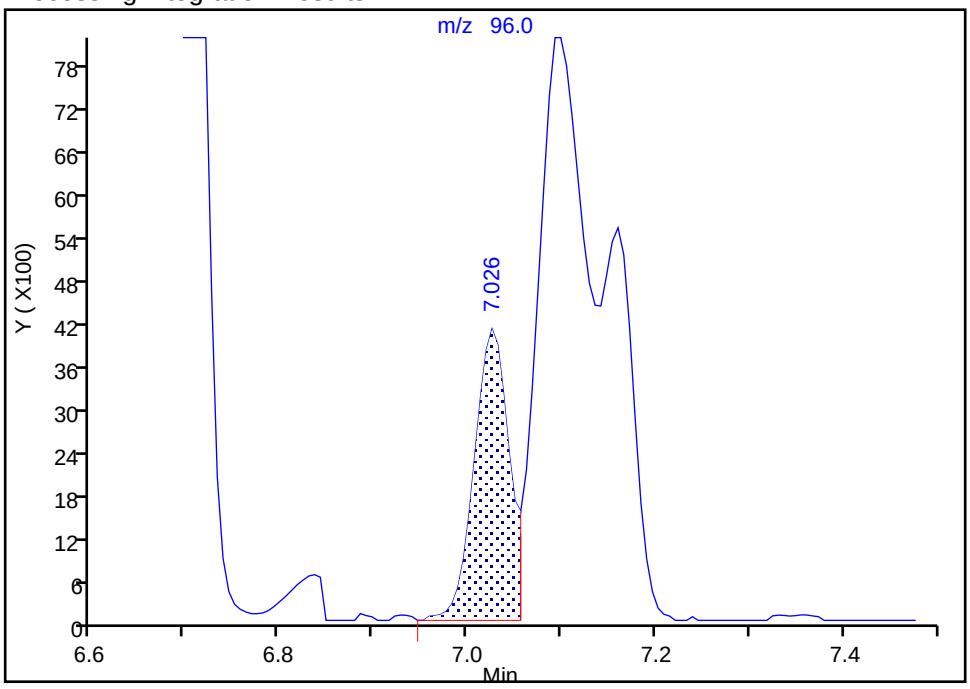
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50573.D
Injection Date: 24-May-2018 04:30:30 Instrument ID: CVOAMS4
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 10 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

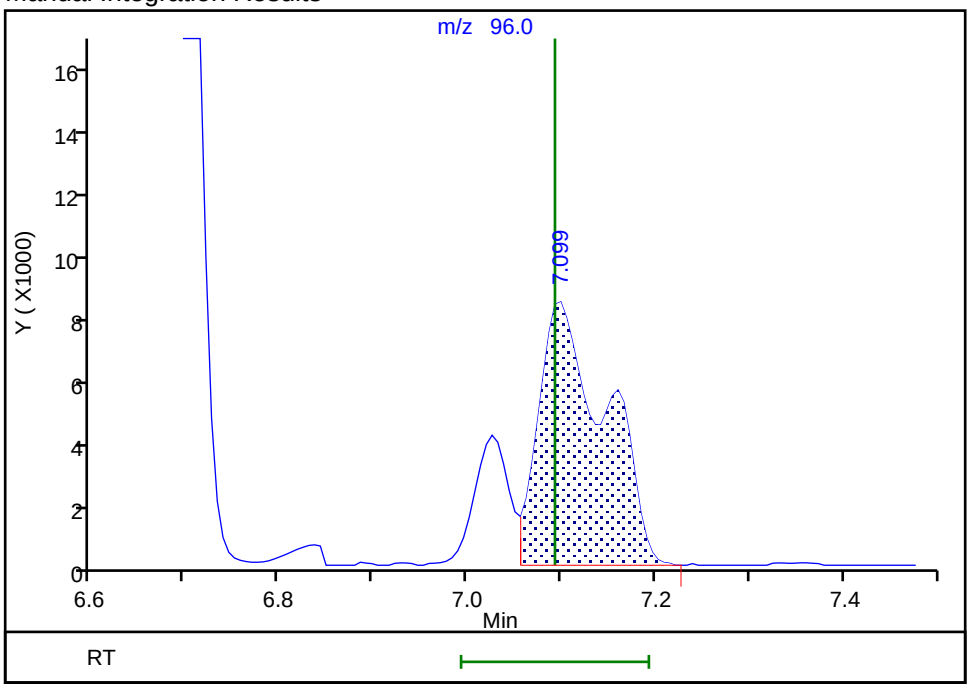
Processing Integration Results

RT: 7.03
Area: 10696
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 7.10
Area: 40937
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:34:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50578.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 24-May-2018 06:33:30 ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0072566-014
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:16:51 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 24-May-2018 14:36:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.564	1.588	-0.024	85	1452	1.00	0.5425	a
2 Dichlorodifluoromethane	85	1.613	1.618	-0.006	96	2981	1.00	0.6402	
3 Chloromethane	50	1.820	1.832	-0.012	97	3766	1.00	0.9636	
5 Butadiene	54	1.917	1.929	-0.012	94	2153	1.00	0.6997	
4 Vinyl chloride	62	1.923	1.935	-0.012	94	3111	1.00	0.9133	
6 Bromomethane	94	2.265	2.271	-0.006	98	2521	1.00	0.9794	
7 Chloroethane	64	2.326	2.338	-0.012	98	1760	1.00	0.9361	
8 Dichlorofluoromethane	67	2.557	2.576	-0.019	94	5013	1.00	0.9438	
10 Pentane	72	2.570	2.576	-0.006	95	921	2.00	1.85	
9 Trichlorofluoromethane	101	2.570	2.582	-0.012	92	3238	1.00	0.7623	
11 Ethyl ether	59	2.795	2.807	-0.012	93	2302	1.00	1.15	
12 Ethanol	46	2.820	2.813	0.007	69	807	40.0	40.1	
13 2-Methyl-1,3-butadiene	53	2.813	2.826	-0.013	94	1795	1.00	0.8225	
14 1,2-Dichloro-1,1,2-trifluo	117	2.887	2.905	-0.018	69	2268	1.00	0.8647	
16 Acrolein	56	3.002	3.015	-0.012	96	43660	100.0	87.3	
15 1,1,2-Trichloro-1,2,2-trif	101	3.039	3.051	-0.012	64	2053	1.00	0.7029	
17 1,1-Dichloroethene	96	3.045	3.057	-0.012	95	2529	1.00	0.8996	
18 Acetone	43	3.155	3.161	-0.006	88	6097	5.00	6.91	
19 Iodomethane	142	3.228	3.234	-0.006	97	6557	1.00	0.9837	
20 Carbon disulfide	76	3.259	3.271	-0.012	99	8719	1.00	0.8803	
21 Isopropyl alcohol	45	3.277	3.289	-0.012	97	3344	10.0	12.1	
22 3-Chloro-1-propene	76	3.429	3.435	-0.006	97	1591	1.00	0.9479	
24 Methyl acetate	43	3.448	3.453	-0.005	96	4669	2.00	2.56	
23 Cyclopentene	67	3.448	3.453	-0.005	94	4992	1.00	0.8056	
25 Acetonitrile	40	3.533	3.527	0.006	77	3465	10.0	18.1	Ma
26 Methylene Chloride	84	3.582	3.594	-0.012	94	4090	1.00	1.23	
* 27 TBA-d9 (IS)	65	3.600	3.606	-0.006	69	460407	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.679	3.691	-0.012	91	6497	10.0	13.0	
29 Methyl tert-butyl ether	73	3.783	3.795	-0.012	95	7743	1.00	1.05	
30 trans-1,2-Dichloroethene	96	3.807	3.819	-0.012	94	3056	1.00	0.99	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.899	3.911	-0.012	95	11680	10.0	10.1	
32 Hexane	57	3.996	4.008	-0.012	91	2756	1.00	0.7667	
33 Isopropyl ether	45	4.264	4.276	-0.012	86	8145	1.00	1.06	
34 1,1-Dichloroethane	63	4.295	4.301	-0.006	98	4690	1.00	0.9897	
35 Vinyl acetate	86	4.325	4.331	-0.006	99	931	2.00	1.85	
36 2-Chloro-1,3-butadiene	88	4.350	4.356	-0.006	89	2162	1.00	0.8521	
37 Tert-butyl ethyl ether	59	4.655	4.667	-0.012	90	7636	1.00	1.04	
* 38 2-Butanone-d5	46	4.892	4.898	-0.006	0	329753	250.0	250.0	
39 2,2-Dichloropropane	79	4.905	4.910	-0.005	47	1417	1.00	1.07	
40 cis-1,2-Dichloroethene	96	4.935	4.941	-0.006	98	4216	1.00	1.19	
41 2-Butanone (MEK)	72	4.953	4.965	-0.012	97	1902	5.00	5.28	
42 Ethyl acetate	70	4.990	4.984	0.006	95	491	2.00	1.63	
43 Methyl acrylate	55	5.039	5.045	-0.006	97	2280	1.00	1.10	a
44 Propionitrile	54	5.124	5.130	-0.006	96	4504	10.0	12.4	
45 Tetrahydrofuran	72	5.209	5.215	-0.006	65	853	2.00	2.09	
46 Chlorobromomethane	128	5.215	5.221	-0.006	89	1844	1.00	1.05	
47 Methacrylonitrile	67	5.252	5.252	0.000	92	11200	10.0	11.2	
48 Chloroform	83	5.283	5.295	-0.012	98	4843	1.00	1.02	
49 Cyclohexane	84	5.435	5.441	-0.006	92	2932	1.00	0.7294	
50 1,1,1-Trichloroethane	97	5.453	5.465	-0.012	97	3577	1.00	0.8843	
$ 51 Dibromofluoromethane (Surr	113	5.478	5.484	-0.006	98	153885	50.0	48.2	
52 Carbon tetrachloride	117	5.600	5.605	-0.005	93	2902	1.00	0.8150	
53 1,1-Dichloropropene	75	5.636	5.648	-0.012	94	3339	1.00	0.9000	
54 Isobutyl alcohol	43	5.837	5.837	0.000	93	4850	25.0	19.5	
55 Benzene	78	5.880	5.886	-0.006	96	10921	1.00	1.08	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.904	5.910	-0.006	98	133643	50.0	48.2	
57 Tert-amyl methyl ether	87	5.978	5.983	-0.005	90	2345	1.00	1.00	
58 Isopropyl acetate	43	5.978	5.983	-0.005	93	8190	1.00	1.14	
59 1,2-Dichloroethane	62	5.996	6.008	-0.012	95	3718	1.00	1.14	
60 n-Heptane	57	6.093	6.099	-0.006	88	1394	1.00	0.6939	
* 61 Fluorobenzene	96	6.246	6.252	-0.006	99	538132	50.0	50.0	
62 n-Butanol	56	6.654	6.660	-0.006	90	2225	25.0	21.6	
63 Trichloroethene	95	6.685	6.691	-0.006	96	2937	1.00	1.03	
64 Methylcyclohexane	83	6.825	6.837	-0.012	94	3677	1.00	0.7587	
65 Ethyl acrylate	73	6.849	6.855	-0.006	96	143	1.00	0.7618	
66 1,2-Dichloropropane	63	7.014	7.026	-0.012	86	2322	1.00	0.9320	
* 67 1,4-Dioxane-d8	96	7.087	7.093	-0.006	0	37163	1000.0	1000.0	
68 Methyl methacrylate	100	7.124	7.123	0.001	92	1042	2.00	1.66	
69 1,4-Dioxane	88	7.154	7.154	0.000	36	820	20.0	20.6	
70 Dibromomethane	93	7.154	7.166	-0.012	86	1817	1.00	1.06	
71 n-Propyl acetate	43	7.185	7.191	-0.006	97	3180	1.00	1.04	
72 Dichlorobromomethane	83	7.325	7.331	-0.006	98	2988	1.00	0.9228	
73 2-Nitropropane	41	7.654	7.660	-0.006	90	1443	2.00	2.66	
74 2-Chloroethyl vinyl ether	63	7.660	7.666	-0.006	61	721	1.00	0.8740	
75 Epichlorohydrin	57	7.758	7.757	0.001	99	4903	20.0	18.7	
76 cis-1,3-Dichloropropene	75	7.800	7.806	-0.006	92	3088	1.00	0.9030	
77 4-Methyl-2-pentanone (MIBK	43	7.953	7.959	-0.006	96	11849	5.00	4.68	
$ 78 Toluene-d8 (Surr)	98	8.020	8.026	-0.006	100	488171	50.0	48.4	
79 Toluene	91	8.087	8.087	0.000	93	11737	1.00	1.12	
80 trans-1,3-Dichloropropene	75	8.373	8.379	-0.006	94	2892	1.00	1.01	
81 Ethyl methacrylate	69	8.398	8.404	-0.006	91	2438	1.00	0.9017	
82 1,1,2-Trichloroethane	83	8.544	8.550	-0.006	96	1843	1.00	1.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.575	8.580	-0.005	95	2855	1.00	0.9070	
84 1,3-Dichloropropane	76	8.703	8.702	0.001	93	3078	1.00	0.99	
85 2-Hexanone	43	8.745	8.751	-0.006	97	7677	5.00	4.71	
86 n-Butyl acetate	73	8.831	8.830	0.001	97	567	1.00	1.05	
87 Chlorodibromomethane	129	8.873	8.879	-0.006	98	2157	1.00	0.9151	
88 Ethylene Dibromide	107	8.983	8.989	-0.006	95	2083	1.00	1.03	
* 89 Chlorobenzene-d5	117	9.355	9.361	-0.006	86	379988	50.0	50.0	
90 Chlorobenzene	112	9.379	9.385	-0.006	97	7328	1.00	1.06	
91 Ethylbenzene	106	9.440	9.446	-0.006	98	3557	1.00	0.9618	
92 1,1,1,2-Tetrachloroethane	131	9.459	9.458	0.001	95	2425	1.00	0.9167	
93 m-Xylene & p-Xylene	106	9.544	9.544	0.000	99	4454	1.00	0.9693	
94 n-Butyl acrylate	73	9.837	9.836	0.000	98	1420	1.00	1.00	
95 o-Xylene	106	9.873	9.873	0.000	95	4211	1.00	0.9342	
96 Styrene	104	9.891	9.891	0.000	98	7005	1.00	0.9685	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	94	3484	1.00	1.02	
98 Bromoform	173	10.068	10.068	0.000	93	1416	1.00	0.8709	
99 Isopropylbenzene	105	10.147	10.153	-0.006	95	10919	1.00	0.9093	
$ 100 4-Bromofluorobenzene	174	10.312	10.318	-0.006	0	194881	50.0	47.6	
101 Bromobenzene	156	10.428	10.428	0.000	86	3632	1.00	1.07	
102 1,1,2,2-Tetrachloroethane	83	10.440	10.446	-0.006	98	3096	1.00	1.05	
103 N-Propylbenzene	91	10.464	10.470	-0.006	99	13123	1.00	0.9186	
104 1,2,3-Trichloropropane	110	10.483	10.489	-0.006	97	888	1.00	1.02	
105 trans-1,4-Dichloro-2-buten	53	10.489	10.495	-0.006	83	721	1.00	1.06	
106 4-Ethyltoluene	105	10.556	10.556	0.000	98	11196	1.00	0.9197	
107 2-Chlorotoluene	91	10.562	10.562	0.000	98	9234	1.00	0.9571	
108 1,3,5-Trimethylbenzene	105	10.605	10.604	0.001	94	8973	1.00	0.8492	
109 4-Chlorotoluene	91	10.647	10.653	-0.006	97	8320	1.00	1.02	
110 Butyl Methacrylate	87	10.660	10.659	0.001	91	2831	1.00	0.8944	
111 tert-Butylbenzene	119	10.842	10.842	0.000	96	6878	1.00	0.7717	
112 1,2,4-Trimethylbenzene	105	10.885	10.885	0.000	96	9873	1.00	0.9233	
113 sec-Butylbenzene	105	11.001	11.001	0.000	99	11103	1.00	0.8161	
114 4-Isopropyltoluene	119	11.105	11.104	0.001	98	10278	1.00	0.8558	
115 1,3-Dichlorobenzene	146	11.123	11.129	-0.006	97	7002	1.00	1.10	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	93	234188	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	92	7283	1.00	1.13	
118 Benzyl chloride	126	11.300	11.299	0.001	99	822	1.00	0.8025	
119 2,3-Dihydroindene	117	11.355	11.360	-0.006	94	11523	1.00	0.9431	
120 p-Diethylbenzene	119	11.385	11.385	0.000	95	6880	1.00	0.9447	
121 n-Butylbenzene	92	11.403	11.403	0.000	97	5469	1.00	0.9038	
122 1,2-Dichlorobenzene	146	11.476	11.482	-0.006	97	6910	1.00	1.09	
123 1,2,4,5-Tetramethylbenzene	119	12.013	12.019	-0.006	99	9535	1.00	0.8851	
124 1,2-Dibromo-3-Chloropropan	157	12.129	12.135	-0.006	92	735	1.00	0.9600	
125 1,3,5-Trichlorobenzene	180	12.263	12.263	0.000	96	6045	1.00	1.10	
126 1,2,4-Trichlorobenzene	180	12.897	12.903	-0.006	95	6000	1.00	1.20	
127 Hexachlorobutadiene	225	13.007	13.013	-0.006	96	2539	1.00	1.01	
128 Naphthalene	128	13.190	13.195	-0.005	99	13912	1.00	1.23	
129 1,2,3-Trichlorobenzene	180	13.482	13.488	-0.006	93	6017	1.00	1.22	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.19	
S 131 1,3-Dichloropropene, Total	100				0		2.00	1.91	
S 132 Xylenes, Total	100				0		2.00	1.90	
S 133 Total BTEX	1				0		5.00	5.07	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	10.00	Units: uL	
GASES Li_00261	Amount Added:	1.00	Units: uL	
8260MIX1COMB_00080	Amount Added:	1.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

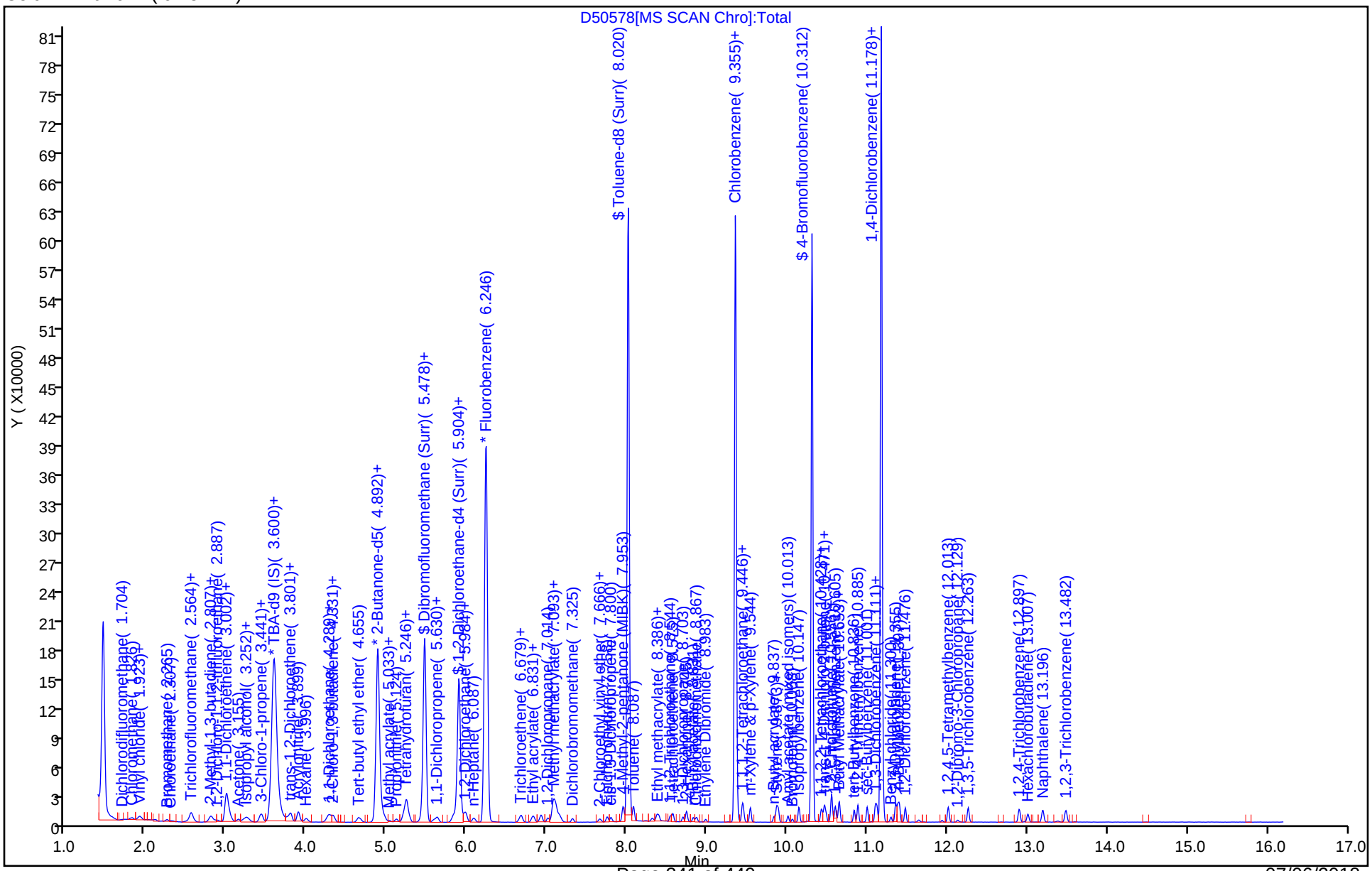
Report Date: 24-May-2018 15:16:55 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50578.D

Injection Date:	24-May-2018 06:33:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	14
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

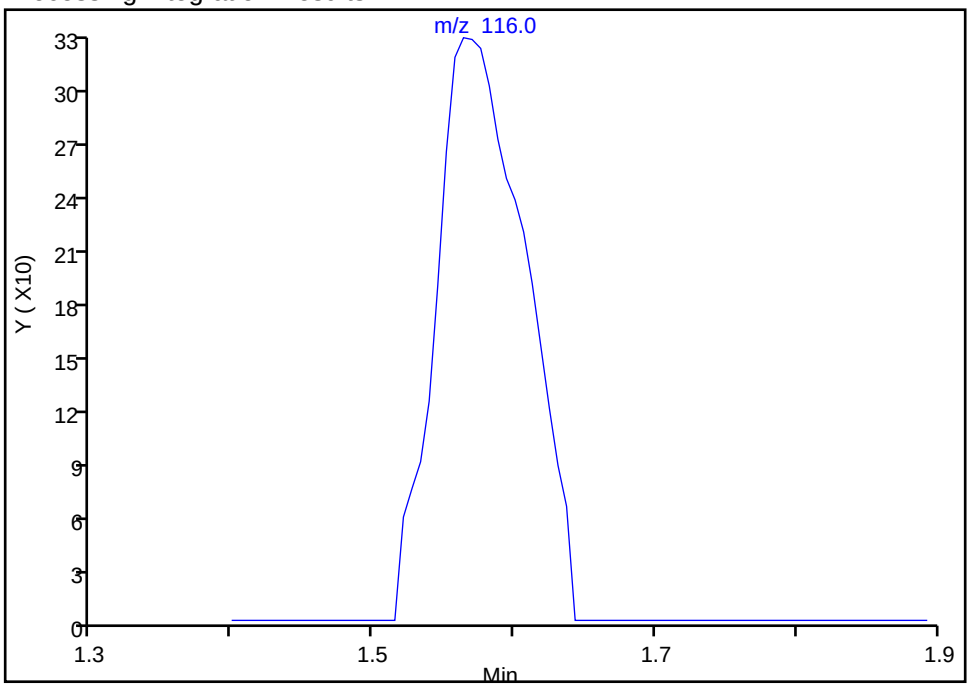
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50578.D
Injection Date: 24-May-2018 06:33:30 Instrument ID: CVOAMS4
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

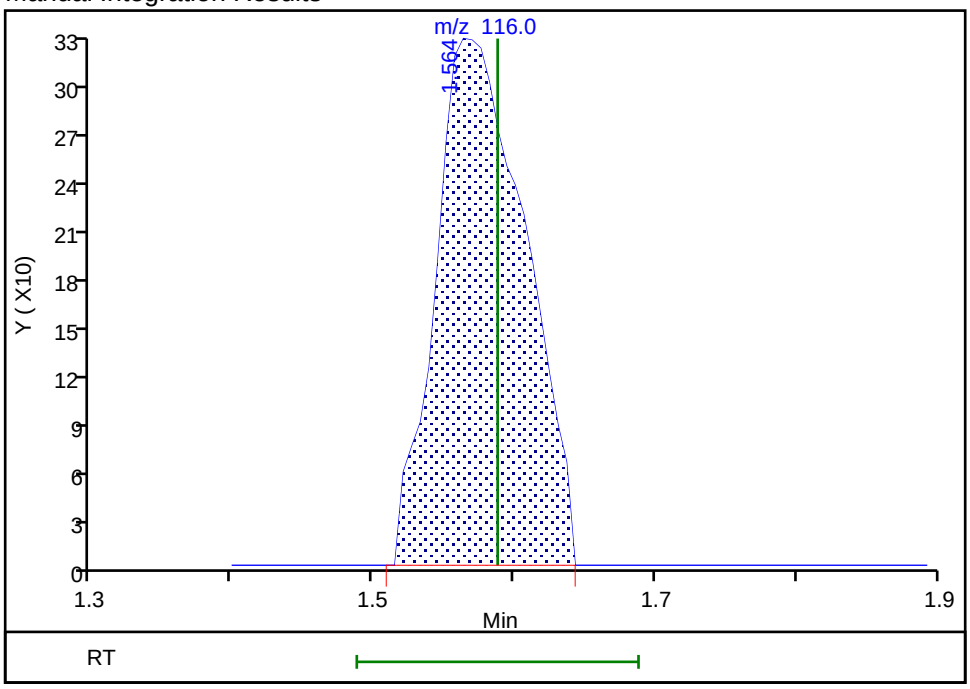
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.56
Area: 1452
Amount: 0.542474
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:35:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

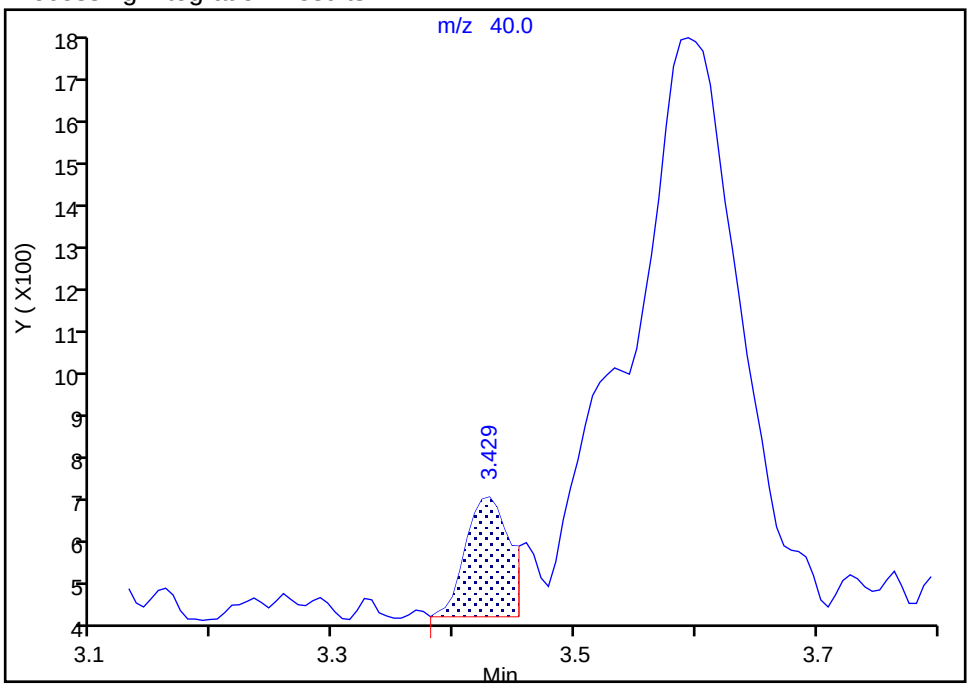
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50578.D
Injection Date: 24-May-2018 06:33:30 Instrument ID: CVOAMS4
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

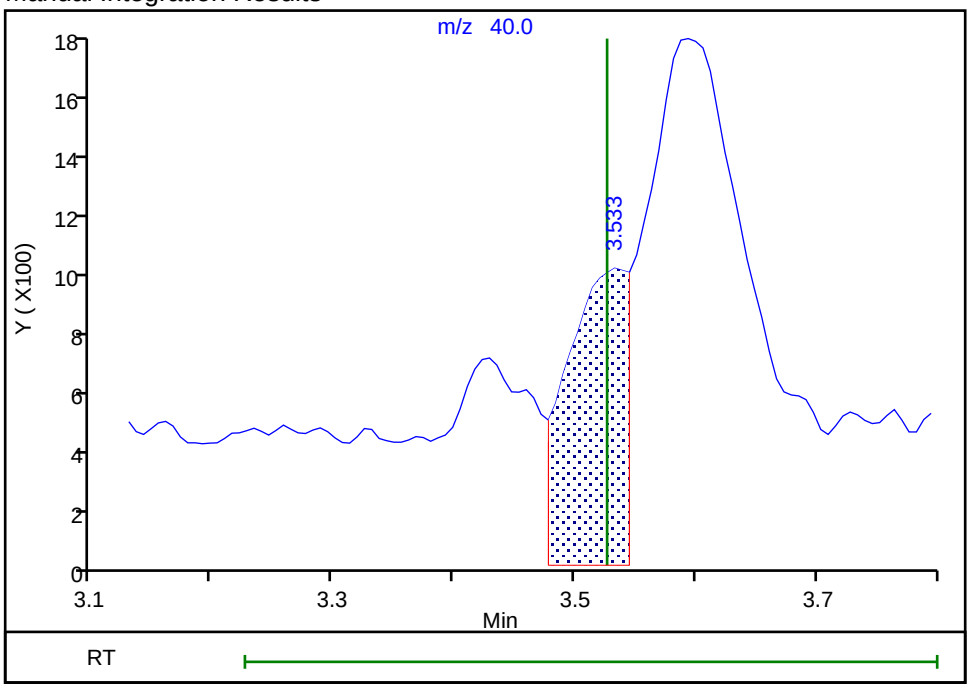
Processing Integration Results

RT: 3.43
Area: 687
Amount: 3.323073
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 3465
Amount: 18.137805
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:48:23
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

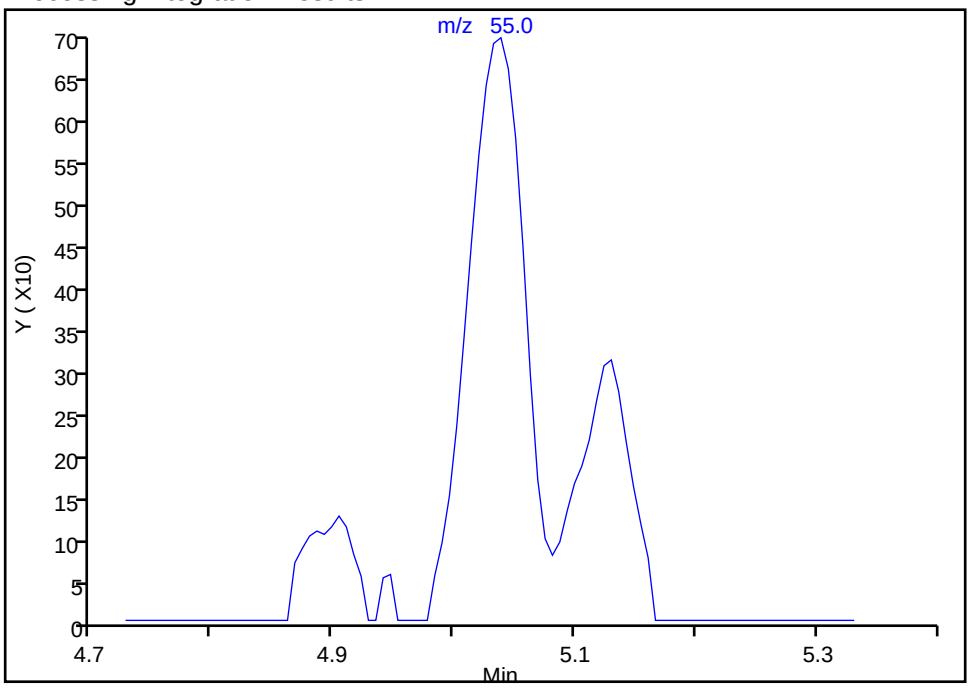
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50578.D
Injection Date: 24-May-2018 06:33:30 Instrument ID: CVOAMS4
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 15 Worklist Smp#: 14
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

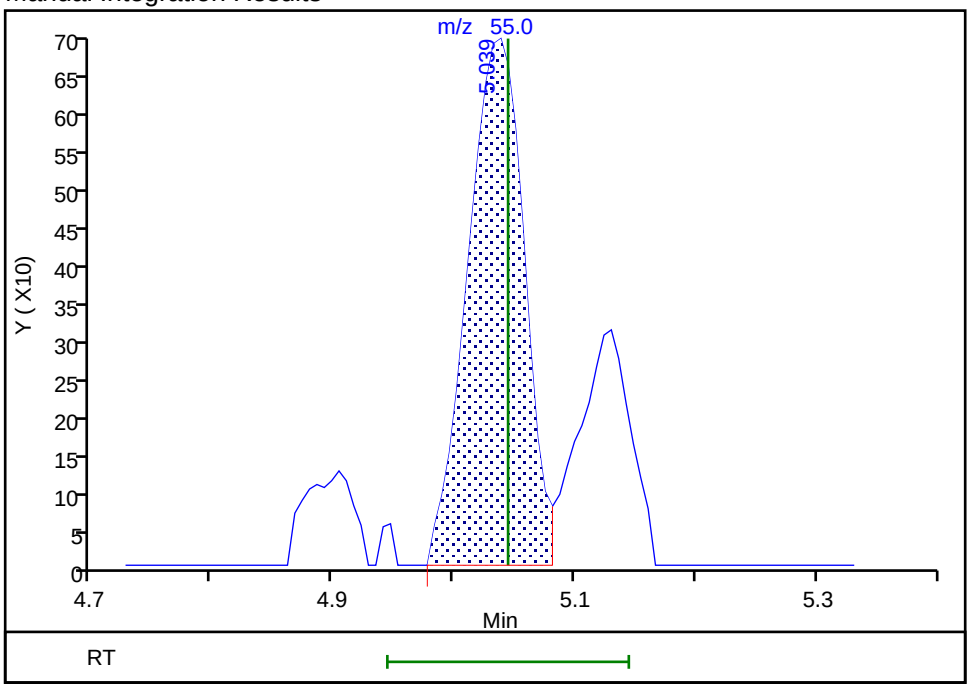
Not Detected
Expected RT: 5.04

Processing Integration Results



Manual Integration Results

RT: 5.04
Area: 2280
Amount: 1.097867
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:35:37
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 24-May-2018 06:58:30 ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0072566-015
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 24-May-2018 15:17:09 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: delpolitov Date: 24-May-2018 14:44:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.576	1.588	-0.012	88	10215	5.00	3.76	a
2 Dichlorodifluoromethane	85	1.619	1.618	0.001	98	21420	5.00	4.53	
3 Chloromethane	50	1.826	1.832	-0.006	99	18900	5.00	4.76	
5 Butadiene	54	1.917	1.929	-0.012	97	14615	5.00	4.68	
4 Vinyl chloride	62	1.930	1.935	-0.005	96	16377	5.00	4.74	
6 Bromomethane	94	2.265	2.271	-0.006	98	13965	5.00	5.34	
7 Chloroethane	64	2.332	2.338	-0.006	99	10411	5.00	5.45	
10 Pentane	72	2.564	2.576	-0.012	96	4991	10.0	9.85	
8 Dichlorofluoromethane	67	2.564	2.576	-0.012	99	27607	5.00	5.12	
9 Trichlorofluoromethane	101	2.576	2.582	-0.006	96	20393	5.00	4.73	
11 Ethyl ether	59	2.795	2.807	-0.012	88	10599	5.00	5.21	
12 Ethanol	46	2.795	2.813	-0.018	81	3914	200.0	208.3	
13 2-Methyl-1,3-butadiene	53	2.820	2.826	-0.006	95	11082	5.00	5.00	
14 1,2-Dichloro-1,1,2-trifluo	117	2.887	2.905	-0.018	92	13130	5.00	4.93	
16 Acrolein	56	3.002	3.015	-0.012	97	85949	200.0	184.2	
15 1,1,2-Trichloro-1,2,2-trif	101	3.045	3.051	-0.006	66	13930	5.00	4.70	
17 1,1-Dichloroethene	96	3.045	3.057	-0.012	97	14004	5.00	4.91	
18 Acetone	43	3.155	3.161	-0.006	87	22328	25.0	25.8	
19 Iodomethane	142	3.222	3.234	-0.012	96	34388	5.00	5.08	
20 Carbon disulfide	76	3.259	3.271	-0.012	99	48967	5.00	4.87	
21 Isopropyl alcohol	45	3.283	3.289	-0.006	98	13010	50.0	50.3	
22 3-Chloro-1-propene	76	3.423	3.435	-0.012	89	8537	5.00	5.01	
23 Cyclopentene	67	3.441	3.453	-0.012	89	31459	5.00	5.00	
24 Methyl acetate	43	3.448	3.453	-0.005	98	21199	10.0	11.4	
25 Acetonitrile	40	3.527	3.527	0.000	97	12253	50.0	68.7	M
26 Methylene Chloride	84	3.588	3.594	-0.006	90	17533	5.00	5.19	
* 27 TBA-d9 (IS)	65	3.600	3.606	-0.006	37	429511	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.679	3.691	-0.012	99	23431	50.0	50.1	
29 Methyl tert-butyl ether	73	3.783	3.795	-0.012	96	39055	5.00	5.21	
30 trans-1,2-Dichloroethene	96	3.807	3.819	-0.012	92	16076	5.00	5.15	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.899	3.911	-0.012	94	53097	50.0	49.2	
32 Hexane	57	4.002	4.008	-0.006	94	16654	5.00	4.56	
33 Isopropyl ether	45	4.271	4.276	-0.005	94	41659	5.00	5.36	
34 1,1-Dichloroethane	63	4.295	4.301	-0.006	99	25223	5.00	5.24	
35 Vinyl acetate	86	4.325	4.331	-0.006	99	5195	10.0	10.2	
36 2-Chloro-1,3-butadiene	88	4.350	4.356	-0.006	88	13420	5.00	5.21	
37 Tert-butyl ethyl ether	59	4.655	4.667	-0.012	90	38729	5.00	5.17	
* 38 2-Butanone-d5	46	4.892	4.898	-0.006	0	323552	250.0	250.0	
39 2,2-Dichloropropane	79	4.911	4.910	0.001	47	6491	5.00	4.82	
40 cis-1,2-Dichloroethene	96	4.935	4.941	-0.006	98	18164	5.00	5.06	
41 2-Butanone (MEK)	72	4.966	4.965	0.001	97	8582	25.0	24.3	
42 Ethyl acetate	70	4.972	4.984	-0.012	95	2729	10.0	9.24	
43 Methyl acrylate	55	5.039	5.045	-0.006	100	11603	5.00	5.50	
44 Propionitrile	54	5.124	5.130	-0.006	98	20956	50.0	56.9	
45 Tetrahydrofuran	72	5.215	5.215	0.000	61	3776	10.0	9.44	
46 Chlorobromomethane	128	5.215	5.221	-0.006	79	8957	5.00	5.03	
47 Methacrylonitrile	67	5.246	5.252	-0.006	92	55422	50.0	54.5	
48 Chloroform	83	5.283	5.295	-0.013	97	23865	5.00	4.95	
49 Cyclohexane	84	5.429	5.441	-0.012	89	18977	5.00	4.65	
50 1,1,1-Trichloroethane	97	5.459	5.465	-0.006	99	20180	5.00	4.91	
$ 51 Dibromofluoromethane (Surr	113	5.478	5.484	-0.006	99	158651	50.0	48.9	
52 Carbon tetrachloride	117	5.600	5.605	-0.005	96	17152	5.00	4.74	
53 1,1-Dichloropropene	75	5.636	5.648	-0.012	96	17885	5.00	4.75	
54 Isobutyl alcohol	43	5.831	5.837	-0.006	92	25909	125.0	111.4	
55 Benzene	78	5.880	5.886	-0.006	95	54291	5.00	5.31	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.904	5.910	-0.006	96	135570	50.0	48.1	
58 Isopropyl acetate	43	5.978	5.983	-0.005	97	37983	5.00	5.21	
57 Tert-amyl methyl ether	87	5.978	5.983	-0.005	90	11483	5.00	4.84	
59 1,2-Dichloroethane	62	5.996	6.008	-0.012	97	16971	5.00	5.13	
60 n-Heptane	57	6.093	6.099	-0.006	92	9214	5.00	4.52	
* 61 Fluorobenzene	96	6.246	6.252	-0.006	99	546337	50.0	50.0	
62 n-Butanol	56	6.660	6.660	0.000	88	10859	125.0	113.2	
63 Trichloroethene	95	6.685	6.691	-0.006	95	13905	5.00	4.82	
64 Methylcyclohexane	83	6.825	6.837	-0.012	94	21680	5.00	4.41	
65 Ethyl acrylate	73	6.849	6.855	-0.006	97	978	5.00	5.13	
66 1,2-Dichloropropane	63	7.014	7.026	-0.012	91	12463	5.00	4.93	
* 67 1,4-Dioxane-d8	96	7.087	7.093	-0.006	0	34167	1000.0	1000.0	
68 Methyl methacrylate	100	7.124	7.123	0.001	91	6340	10.0	9.93	
69 1,4-Dioxane	88	7.148	7.154	-0.006	44	3986	100.0	108.9	
70 Dibromomethane	93	7.160	7.166	-0.006	91	8683	5.00	4.99	
71 n-Propyl acetate	43	7.185	7.191	-0.006	97	15736	5.00	5.08	
72 Dichlorobromomethane	83	7.325	7.331	-0.006	97	14837	5.00	4.51	
73 2-Nitropropane	41	7.654	7.660	-0.006	92	5228	10.0	9.51	
74 2-Chloroethyl vinyl ether	63	7.660	7.666	-0.006	83	4020	5.00	4.80	
75 Epichlorohydrin	57	7.752	7.757	-0.005	99	23382	100.0	90.7	
76 cis-1,3-Dichloropropene	75	7.806	7.806	0.000	87	16738	5.00	4.82	
77 4-Methyl-2-pentanone (MIBK	43	7.953	7.959	-0.006	96	58429	25.0	23.5	
$ 78 Toluene-d8 (Surr)	98	8.020	8.026	-0.006	99	507902	50.0	49.6	
79 Toluene	91	8.081	8.087	-0.006	93	54332	5.00	5.09	
80 trans-1,3-Dichloropropene	75	8.373	8.379	-0.006	98	13547	5.00	4.66	
81 Ethyl methacrylate	69	8.398	8.404	-0.006	89	13419	5.00	4.89	
82 1,1,2-Trichloroethane	83	8.544	8.550	-0.006	96	8771	5.00	5.12	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.575	8.580	-0.005	94	15718	5.00	4.92	
84 1,3-Dichloropropane	76	8.703	8.702	0.001	90	15732	5.00	5.00	
85 2-Hexanone	43	8.745	8.751	-0.006	97	37761	25.0	23.6	
86 n-Butyl acetate	73	8.831	8.830	0.001	99	2977	5.00	5.43	
87 Chlorodibromomethane	129	8.873	8.879	-0.006	98	11152	5.00	4.66	
88 Ethylene Dibromide	107	8.983	8.989	-0.006	98	10029	5.00	4.89	
* 89 Chlorobenzene-d5	117	9.355	9.361	-0.006	84	386017	50.0	50.0	
90 Chlorobenzene	112	9.379	9.385	-0.006	97	35162	5.00	5.01	
91 Ethylbenzene	106	9.440	9.446	-0.006	98	18916	5.00	5.03	
92 1,1,1,2-Tetrachloroethane	131	9.459	9.458	0.001	95	13259	5.00	4.93	
93 m-Xylene & p-Xylene	106	9.544	9.544	0.000	99	23389	5.00	5.01	
94 n-Butyl acrylate	73	9.837	9.836	0.000	98	7496	5.00	5.17	
95 o-Xylene	106	9.867	9.873	-0.006	95	23145	5.00	5.05	
96 Styrene	104	9.891	9.891	0.000	97	35033	5.00	4.77	
97 Amyl acetate (mixed isomer	43	10.013	10.013	0.000	91	18448	5.00	5.33	
98 Bromoform	173	10.068	10.068	0.000	97	7832	5.00	4.74	
99 Isopropylbenzene	105	10.147	10.153	-0.006	95	59433	5.00	4.87	
$ 100 4-Bromofluorobenzene	174	10.312	10.318	-0.006	0	201320	50.0	48.5	
101 Bromobenzene	156	10.428	10.428	0.000	89	16962	5.00	4.95	
102 1,1,2,2-Tetrachloroethane	83	10.440	10.446	-0.006	98	15084	5.00	5.03	
103 N-Propylbenzene	91	10.464	10.470	-0.006	99	69248	5.00	4.78	
104 1,2,3-Trichloropropane	110	10.489	10.489	0.000	98	4767	5.00	5.42	
105 trans-1,4-Dichloro-2-buten	53	10.489	10.495	-0.006	75	3423	5.00	4.98	
106 4-Ethyltoluene	105	10.550	10.556	-0.006	99	60306	5.00	4.88	
107 2-Chlorotoluene	91	10.562	10.562	0.000	97	46408	5.00	4.74	
108 1,3,5-Trimethylbenzene	105	10.605	10.604	0.001	94	49254	5.00	4.59	
109 4-Chlorotoluene	91	10.647	10.653	-0.006	96	39896	5.00	4.80	
110 Butyl Methacrylate	87	10.660	10.659	0.001	91	14593	5.00	4.54	
111 tert-Butylbenzene	119	10.836	10.842	-0.006	96	40633	5.00	4.49	
112 1,2,4-Trimethylbenzene	105	10.885	10.885	0.000	96	50905	5.00	4.69	
113 sec-Butylbenzene	105	11.001	11.001	0.000	99	64430	5.00	4.67	
114 4-Isopropyltoluene	119	11.105	11.104	0.001	98	56601	5.00	4.65	
115 1,3-Dichlorobenzene	146	11.123	11.129	-0.006	97	30665	5.00	4.75	
* 116 1,4-Dichlorobenzene-d4	152	11.178	11.178	0.000	93	237601	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.196	11.196	0.000	95	32166	5.00	4.94	
118 Benzyl chloride	126	11.300	11.299	0.001	99	4075	5.00	3.92	
119 2,3-Dihydroindene	117	11.354	11.360	-0.006	93	58495	5.00	4.72	
120 p-Diethylbenzene	119	11.379	11.385	-0.006	95	35557	5.00	4.81	
121 n-Butylbenzene	92	11.403	11.403	0.000	95	29456	5.00	4.80	
122 1,2-Dichlorobenzene	146	11.476	11.482	-0.006	98	31116	5.00	4.82	
123 1,2,4,5-Tetramethylbenzene	119	12.013	12.019	-0.006	98	50732	5.00	4.64	
124 1,2-Dibromo-3-Chloropropan	157	12.135	12.135	0.000	91	3865	5.00	4.98	
125 1,3,5-Trichlorobenzene	180	12.263	12.263	0.000	97	26543	5.00	4.78	
126 1,2,4-Trichlorobenzene	180	12.897	12.903	-0.006	93	23988	5.00	4.71	
127 Hexachlorobutadiene	225	13.007	13.013	-0.006	96	11439	5.00	4.49	
128 Naphthalene	128	13.190	13.195	-0.005	99	55673	5.00	4.83	
129 1,2,3-Trichlorobenzene	180	13.482	13.488	-0.006	95	24375	5.00	4.86	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.2	
S 131 1,3-Dichloropropene, Total	100				0		10.0	9.48	
S 132 Xylenes, Total	100				0		10.0	10.1	
S 133 Total BTEX	1				0		25.0	25.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00261	Amount Added:	0.50	Units: uL	
8260MIX1COMB_00080	Amount Added:	0.50	Units: uL	
ACROLEIN W_00077	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 24-May-2018 15:17:15 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Injection Date: 24-May-2018 06:58:30 Instrument ID: CVOAMS4 Operator ID:

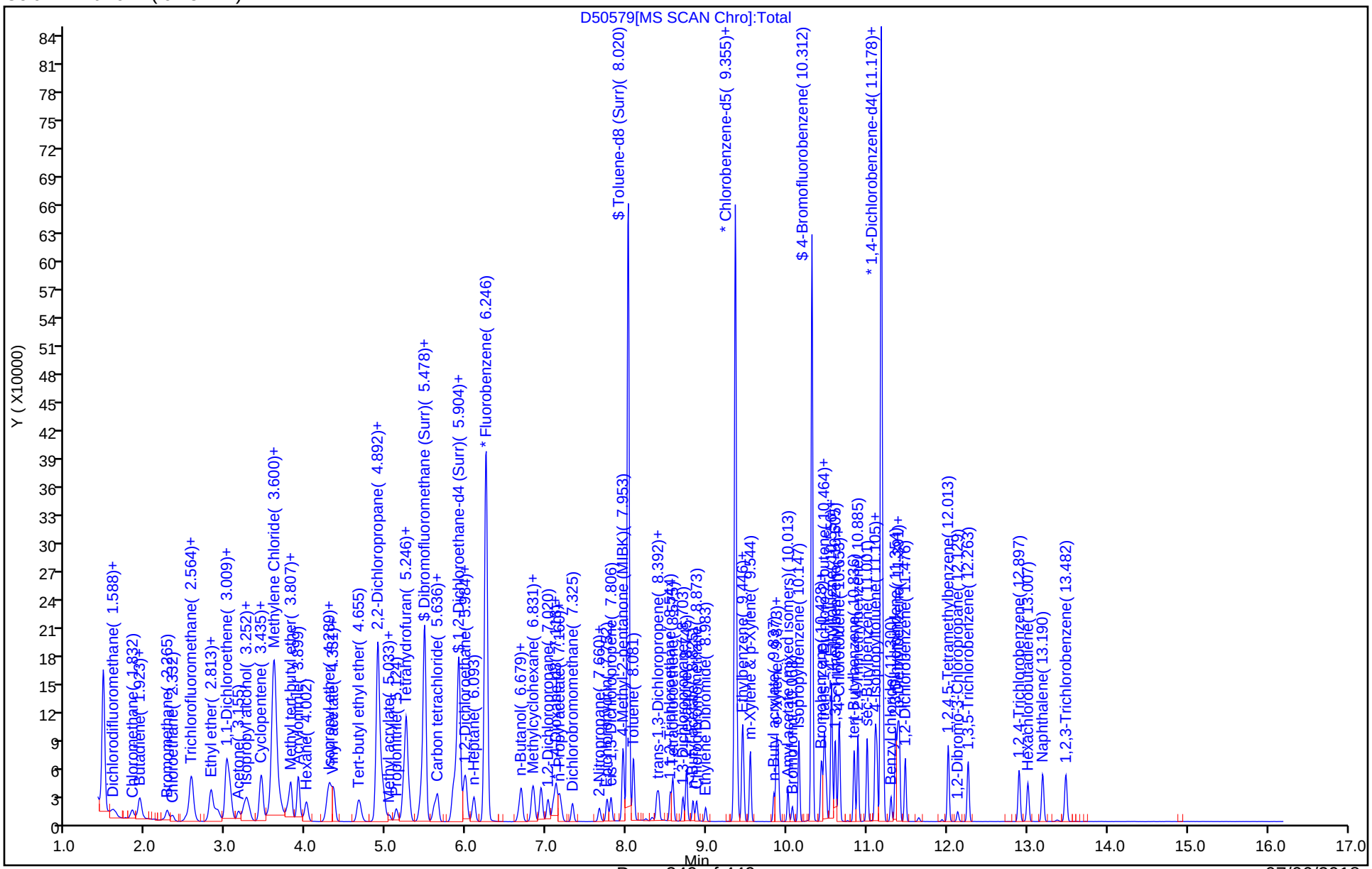
Lims ID: STD5 Worklist Smp#: 15

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 16

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

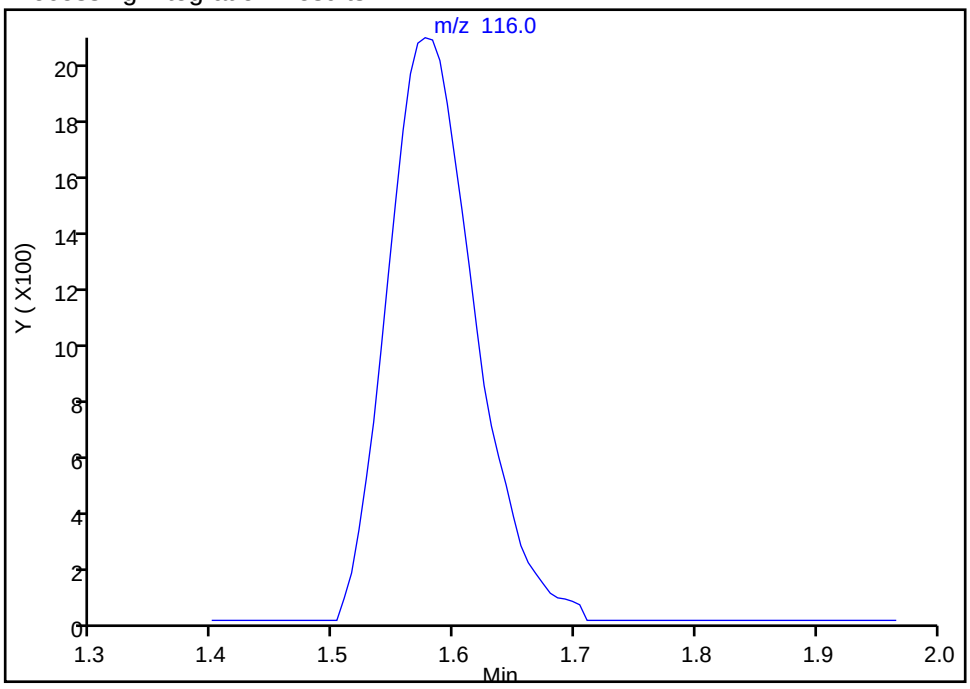
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D
Injection Date: 24-May-2018 06:58:30 Instrument ID: CVOAMS4
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

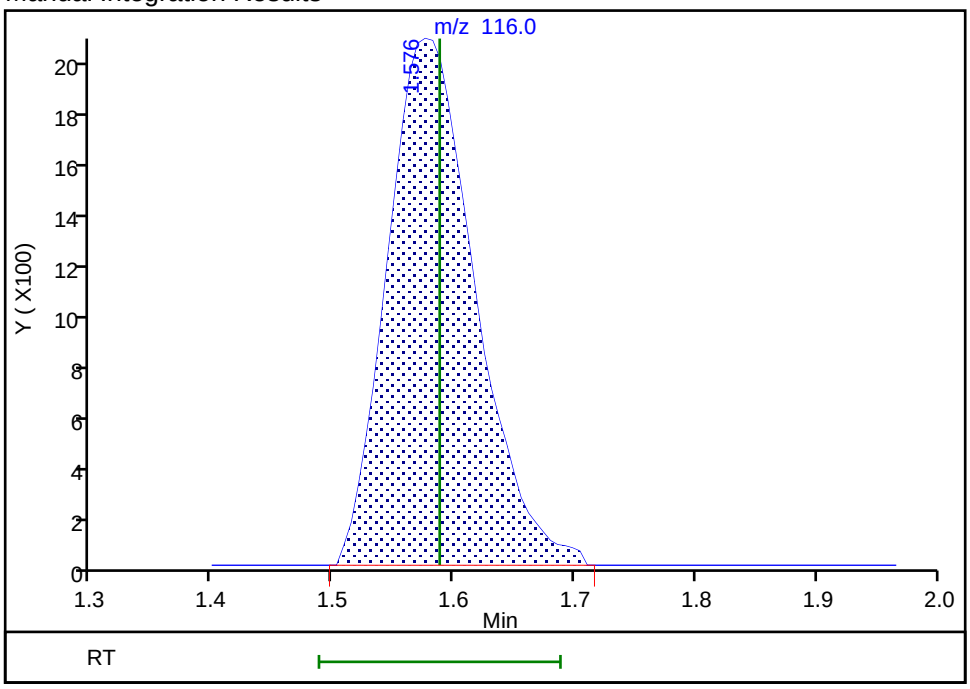
Not Detected
Expected RT: 1.59

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 10215
Amount: 3.758730
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:43:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

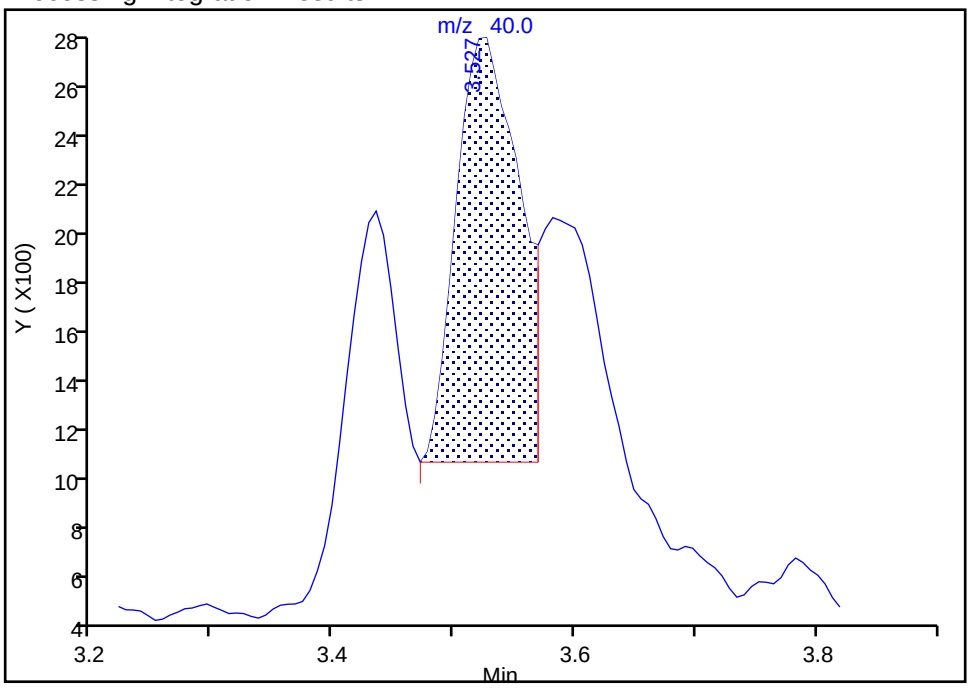
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D
Injection Date: 24-May-2018 06:58:30 Instrument ID: CVOAMS4
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 16 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

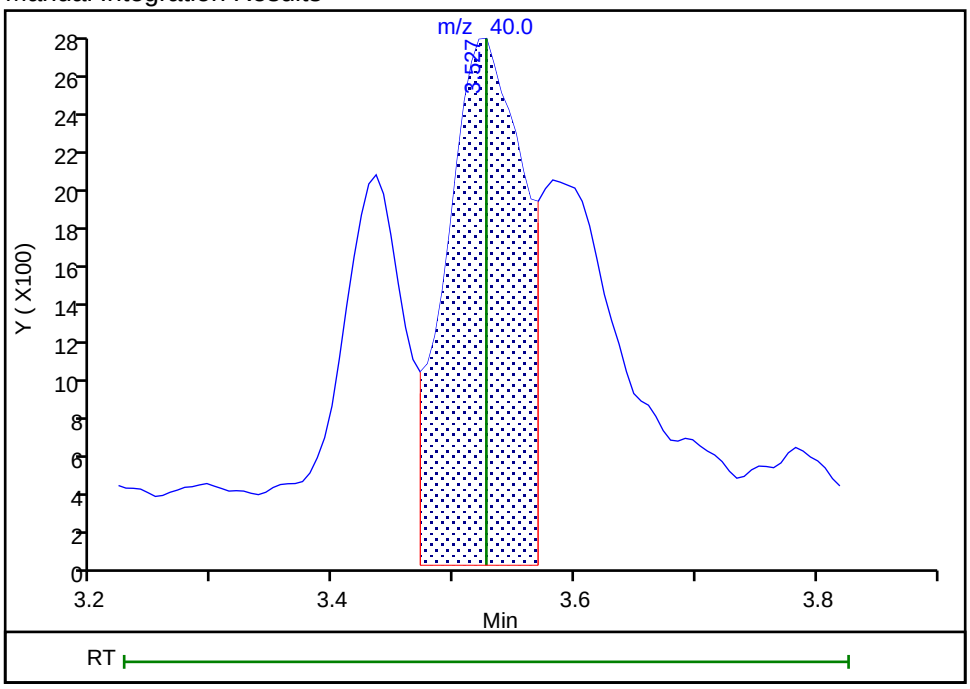
Processing Integration Results

RT: 3.53
Area: 6196
Amount: 32.119969
Amount Units: ug/l



Manual Integration Results

RT: 3.53
Area: 12253
Amount: 68.721592
Amount Units: ug/l



Reviewer: delpolitov, 24-May-2018 14:47:36
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532483/3 Calibration Date: 06/30/2018 15:41

Instrument ID: CVOAMS13 Calib Start Date: 04/20/2018 02:35

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/20/2018 07:16

Lab File ID: P47475.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1279	0.0595		9.30	20.0	-53.5*	20.0
Dichlorodifluoromethane	Ave	0.3854	0.3515	0.1000	18.2	20.0	-8.8	20.0
Chloromethane	Ave	0.3697	0.2805	0.1000	15.2	20.0	-24.1*	20.0
Vinyl chloride	Ave	0.4154	0.3788	0.1000	18.2	20.0	-8.8	20.0
Butadiene	Ave	0.3665	0.3522		19.2	20.0	-3.9	20.0
Bromomethane	Ave	1.229	0.5939	0.1000	9.67	20.0	-51.7*	50.0
Chloroethane	Ave	0.2368	0.2041	0.1000	17.2	20.0	-13.8	50.0
Pentane	Ave	1.725	2.336		54.2	40.0	35.5*	20.0
Trichlorofluoromethane	Ave	0.4059	0.4027	0.1000	19.8	20.0	-0.8	20.0
Dichlorofluoromethane	Ave	0.5414	0.5309		19.6	20.0	-1.9	20.0
2-Methyl-1,3-butadiene	Ave	0.4037	0.3771		18.7	20.0	-6.6	20.0
Ethyl ether	Ave	0.2720	0.2446		18.0	20.0	-10.1	20.0
Ethanol	Ave	0.0647	0.0733		906	800	13.3	50.0
1,1-Dichloroethene	Ave	0.2468	0.2210	0.1000	17.9	20.0	-10.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3655	0.3341		18.3	20.0	-8.6	20.0
Carbon disulfide	Ave	0.9758	0.7835	0.1000	16.1	20.0	-19.7	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2550	0.2390	0.1000	18.7	20.0	-6.3	20.0
Iodomethane	QuaF		0.1038		6.74	20.0	-66.3*	20.0
Cyclopentene	Ave	0.7027	0.6649		18.9	20.0	-5.4	20.0
Acrolein	Ave	1.112	2.141		77.0	40.0	92.5*	50.0
Allyl chloride	Ave	0.1749	0.1462		16.7	20.0	-16.4	20.0
Isopropyl alcohol	Ave	0.8636	0.8451		196	200	-2.1	50.0
Methylene Chloride	Ave	0.3184	0.2814	0.1000	17.7	20.0	-11.6	20.0
Acetone	Ave	0.7304	0.6722	0.0500	92.0	100	-8.0	50.0
trans-1,2-Dichloroethene	Ave	0.2939	0.2522	0.1000	17.2	20.0	-14.2	20.0
Methyl acetate	Ave	0.2596	0.2148	0.1000	33.1	40.0	-17.3	20.0
Hexane	Ave	0.0782	0.0706		18.1	20.0	-9.6	20.0
Methyl tert-butyl ether	Ave	0.9326	0.7724	0.1000	16.6	20.0	-17.2	20.0
2-Methyl-2-propanol	Ave	1.246	1.210		194	200	-2.9	50.0
Acetonitrile	Ave	1.511	1.893		251	200	25.3*	20.0
Isopropyl ether	Ave	1.207	1.027		17.0	20.0	-15.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2668	0.2209		16.6	20.0	-17.2	20.0
1,1-Dichloroethane	Ave	0.5753	0.5058	0.2000	17.6	20.0	-12.1	20.0
Acrylonitrile	Ave	0.1373	0.1188		173	200	-13.4	20.0
Tert-butyl ethyl ether	Ave	1.080	0.8486		15.7	20.0	-21.4*	20.0
Vinyl acetate	Ave	0.8169	0.7073		34.6	40.0	-13.4	20.0
cis-1,2-Dichloroethene	Ave	0.3394	0.2610	0.1000	15.4	20.0	-23.1*	20.0
2,2-Dichloropropane	Ave	0.4923	0.3937		16.0	20.0	-20.0	20.0
Cyclohexane	Ave	0.5987	0.4944	0.1000	16.5	20.0	-17.4	50.0
Chlorobromomethane	Ave	0.1494	0.1381		18.5	20.0	-7.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532483/3 Calibration Date: 06/30/2018 15:41

Instrument ID: CVOAMS13 Calib Start Date: 04/20/2018 02:35

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/20/2018 07:16

Lab File ID: P47475.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chloroform	Ave	0.5557	0.4708	0.2000	16.9	20.0	-15.3	20.0
Carbon tetrachloride	Ave	0.3877	0.3164	0.1000	16.3	20.0	-18.4	20.0
Ethyl acetate	Ave	0.3046	0.2564		33.7	40.0	-15.8	20.0
Methyl acrylate	Ave	0.3220	0.2496		15.5	20.0	-22.5*	20.0
Tetrahydrofuran	Ave	1.047	0.9509		36.3	40.0	-9.2	20.0
1,1,1-Trichloroethane	Ave	0.4773	0.3849	0.1000	16.1	20.0	-19.3	20.0
1,1-Dichloropropene	Ave	0.4744	0.3975		16.8	20.0	-16.2	20.0
2-Butanone (MEK)	Ave	0.3056	0.2683	0.0500	87.8	100	-12.2	50.0
2,2,4-Trimethylpentane	Ave	1.175	0.9551		16.3	20.0	-18.7	20.0
n-Heptane	Ave	0.3213	0.2396		14.9	20.0	-25.4*	20.0
Benzene	Ave	1.585	1.485	0.5000	18.7	20.0	-6.3	20.0
Propionitrile	Ave	1.764	1.947		221	200	10.4	20.0
Methacrylonitrile	Ave	0.1400	0.1232		176	200	-12.0	20.0
Tert-amyl methyl ether	Ave	0.995	0.7706		15.5	20.0	-22.6*	20.0
1,2-Dichloroethane	Ave	0.4931	0.3967	0.1000	16.1	20.0	-19.6	20.0
Isobutyl alcohol	Ave	0.5427	0.4790		441	500	-11.7	50.0
Isopropyl acetate	Ave	0.7175	0.5257		14.7	20.0	-26.7*	20.0
Methylcyclohexane	Ave	0.5723	0.4948	0.1000	17.3	20.0	-13.5	50.0
Trichloroethene	Ave	0.3095	0.2800	0.2000	18.1	20.0	-9.5	20.0
Dibromomethane	Ave	0.2017	0.1725		17.1	20.0	-14.5	20.0
n-Butanol	Ave	0.3249	0.2743		422	500	-15.6	50.0
1,2-Dichloropropane	Ave	0.3510	0.3004	0.1000	17.1	20.0	-14.4	20.0
Bromodichloromethane	Ave	0.4271	0.3416	0.2000	16.0	20.0	-20.0	20.0
Ethyl acrylate	Ave	0.4470	0.3348		15.0	20.0	-25.1*	20.0
Methyl methacrylate	Ave	0.0855	0.0680		31.8	40.0	-20.4*	20.0
1,4-Dioxane	Ave	1.267	1.304		412	400	2.9	50.0
n-Propyl acetate	Ave	0.5133	0.3873		15.1	20.0	-24.6*	20.0
2-Chloroethyl vinyl ether	Ave	0.2351	0.1600		13.6	20.0	-31.9*	20.0
cis-1,3-Dichloropropene	Ave	0.6385	0.5464	0.2000	17.1	20.0	-14.4	50.0
Toluene	Ave	1.736	1.623	0.4000	18.7	20.0	-6.5	20.0
Epichlorohydrin	Ave	0.2453	0.2284		373	400	-6.9	20.0
2-Nitropropane	Ave	0.1003	0.0639		25.5	40.0	-36.3*	20.0
Tetrachloroethene	Ave	0.3647	0.3887	0.2000	21.3	20.0	6.6	20.0
4-Methyl-2-pentanone (MIBK)	Ave	2.519	2.417	0.0500	96.0	100	-4.0	50.0
trans-1,3-Dichloropropene	Ave	0.5883	0.5046	0.1000	17.2	20.0	-14.2	50.0
1,1,2-Trichloroethane	Ave	0.2956	0.2745	0.1000	18.6	20.0	-7.1	20.0
Ethyl methacrylate	Ave	0.4358	0.3339		15.3	20.0	-23.4*	20.0
Dibromochloromethane	Ave	0.3580	0.3067	0.1000	17.1	20.0	-14.3	50.0
1,3-Dichloropropane	Ave	0.6092	0.5964		19.6	20.0	-2.1	20.0
1,2-Dibromoethane	Ave	0.3381	0.3093	0.1000	18.3	20.0	-8.5	20.0
n-Butyl acetate	Ave	0.7020	0.4874		13.9	20.0	-30.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532483/3 Calibration Date: 06/30/2018 15:41

Instrument ID: CVOAMS13 Calib Start Date: 04/20/2018 02:35

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/20/2018 07:16

Lab File ID: P47475.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
2-Hexanone	Ave	1.771	1.675	0.0500	94.6	100	-5.4	50.0
Chlorobenzene	Ave	1.044	1.030	0.5000	19.7	20.0	-1.4	20.0
Ethylbenzene	Ave	0.5765	0.5537	0.1000	19.2	20.0	-3.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3429	0.3183		18.6	20.0	-7.2	20.0
m-Xylene & p-Xylene	Ave	0.6974	0.6750	0.1000	19.4	20.0	-3.2	20.0
o-Xylene	Ave	0.6817	0.6284	0.3000	18.4	20.0	-7.8	20.0
Bromoform	Ave	0.2257	0.1858	0.1000	16.5	20.0	-17.7	20.0
Styrene	Ave	1.142	1.067	0.3000	18.7	20.0	-6.6	20.0
n-Butyl acrylate	Ave	0.2978	0.2261		15.2	20.0	-24.1*	20.0
Isopropylbenzene	Ave	1.838	1.761	0.1000	19.2	20.0	-4.2	20.0
Bromobenzene	Ave	0.8145	0.7975		19.6	20.0	-2.1	20.0
N-Propylbenzene	Ave	4.204	3.751		17.8	20.0	-10.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.8807	0.7690	0.3000	17.5	20.0	-12.7	20.0
2-Chlorotoluene	Ave	2.861	2.598		18.2	20.0	-9.2	20.0
4-Ethyltoluene	Ave	3.416	3.165		18.5	20.0	-7.3	20.0
1,2,3-Trichloropropane	Ave	0.2510	0.2320		18.5	20.0	-7.6	20.0
1,3,5-Trimethylbenzene	Ave	2.917	2.600		17.8	20.0	-10.9	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3114	0.1929		12.4	20.0	-38.0*	20.0
4-Chlorotoluene	Ave	2.639	2.385		18.1	20.0	-9.6	20.0
tert-Butylbenzene	Ave	2.401	2.177		18.1	20.0	-9.3	20.0
1,2,4-Trimethylbenzene	Ave	2.900	2.684		18.5	20.0	-7.5	20.0
Butyl Methacrylate	Ave	1.025	0.7303		14.3	20.0	-28.7*	20.0
sec-Butylbenzene	Ave	3.739	3.377		18.1	20.0	-9.7	20.0
1,3-Dichlorobenzene	Ave	1.543	1.525	0.6000	19.8	20.0	-1.2	20.0
4-Isopropyltoluene	Ave	3.103	2.866		18.5	20.0	-7.6	20.0
1,4-Dichlorobenzene	Ave	1.671	1.560	0.5000	18.7	20.0	-6.7	20.0
1,2,3-Trimethylbenzene	Ave	3.053	2.804		18.4	20.0	-8.1	20.0
Indan	Ave	2.951	2.748		18.6	20.0	-6.9	20.0
Benzyl chloride	Ave	0.3228	0.2035		12.6	20.0	-37.0	50.0
p-Diethylbenzene	Ave	1.650	1.605		19.4	20.0	-2.8	20.0
n-Butylbenzene	Ave	2.968	2.729		18.4	20.0	-8.1	20.0
1,2-Dichlorobenzene	Ave	1.473	1.488	0.4000	20.2	20.0	1.1	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.673	2.506		18.7	20.0	-6.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1594	0.1329	0.0500	16.7	20.0	-16.6	50.0
1,3,5-Trichlorobenzene	Ave	1.108	1.214		21.9	20.0	9.6	20.0
1,2,4-Trichlorobenzene	Ave	0.9778	1.026	0.2000	21.0	20.0	4.9	20.0
Hexachlorobutadiene	Ave	0.4797	0.4850		20.2	20.0	1.1	20.0
Naphthalene	Ave	2.207	1.984		18.0	20.0	-10.1	50.0
1,2,3-Trichlorobenzene	Ave	0.8841	0.9565		21.6	20.0	8.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2648	0.2240		42.3	50.0	-15.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3621	0.2921		40.3	50.0	-19.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532483/3 Calibration Date: 06/30/2018 15:41

Instrument ID: CVOAMS13 Calib Start Date: 04/20/2018 02:35

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 04/20/2018 07:16

Lab File ID: P47475.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.369	1.241		45.3	50.0	-9.4	20.0
4-Bromofluorobenzene	Ave	0.3909	0.3786		48.4	50.0	-3.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47475.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2018 15:41:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0074647-002
Operator ID: Instrument ID: CVOAMS13
Sublist: chrom-8260W_13*sub51

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:13:26 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: xuyvo Date: 01-Jul-2018 14:13:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	90	13674	20.0	9.30	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	80793	20.0	18.2	
5 Vinyl chloride	62	1.007	1.007	0.000	97	87070	20.0	18.2	
4 Chloromethane	50	0.985	0.985	0.000	99	64476	20.0	15.2	a
3 Butadiene	54	1.014	1.014	0.000	98	80961	20.0	19.2	
6 Bromomethane	94	1.164	1.164	0.000	97	16855	20.0	9.67	
7 Chloroethane	64	1.229	1.229	0.000	100	46920	20.0	17.2	
9 Pentane	72	1.293	1.293	0.000	96	23519	40.0	54.2	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	61	92571	20.0	19.8	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	98	122027	20.0	19.6	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	97	86676	20.0	18.7	
12 Ethyl ether	59	1.458	1.458	0.000	93	56219	20.0	18.0	
13 Ethanol	46	1.537	1.537	0.000	100	14760	800.0	906.3	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	85	76788	20.0	18.3	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	95	50806	20.0	17.9	
16 Carbon disulfide	76	1.580	1.580	0.000	100	180095	20.0	16.1	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	97	54928	20.0	18.7	
18 Iodomethane	142	1.637	1.637	0.000	99	23864	20.0	6.74	
19 Cyclopentene	67	1.723	1.723	0.000	97	152830	20.0	18.9	
20 Acrolein	56	1.737	1.737	0.000	93	21549	40.0	77.0	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	33617	20.0	16.7	
22 Isopropyl alcohol	45	1.838	1.838	0.000	96	42537	200.0	195.7	
23 Methylene Chloride	84	1.881	1.881	0.000	99	64685	20.0	17.7	
24 Acetone	43	1.902	1.902	0.000	86	95387	100.0	92.0	
25 trans-1,2-Dichloroethene	96	1.967	1.967	0.000	99	57983	20.0	17.2	
26 Methyl acetate	43	1.981	1.981	0.000	100	98738	40.0	33.1	
27 Hexane	86	2.024	2.024	0.000	93	16238	20.0	18.1	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	98	177542	20.0	16.6	
* 29 TBA-d9 (IS)	65	2.060	2.060	0.000	0	251668	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.103	2.103	0.000	98	60893	200.0	194.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acetonitrile	41	2.174	2.174	0.000	99	95305	200.0	250.7	
32 Isopropyl ether	45	2.267	2.267	0.000	97	235978	20.0	17.0	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	93	50773	20.0	16.6	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	116255	20.0	17.6	
35 Acrylonitrile	53	2.375	2.375	0.000	95	273138	200.0	173.1	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	89	195070	20.0	15.7	
37 Vinyl acetate	43	2.511	2.511	0.000	100	325162	40.0	34.6	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	92	60002	20.0	15.4	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	96	90508	20.0	16.0	
40 Cyclohexane	56	2.826	2.826	0.000	94	113655	20.0	16.5	
41 Chlorobromomethane	128	2.833	2.833	0.000	97	31748	20.0	18.5	
42 Chloroform	83	2.898	2.898	0.000	98	108219	20.0	16.9	
43 Carbon tetrachloride	117	2.984	2.984	0.000	97	72720	20.0	16.3	
44 Ethyl acetate	70	2.998	2.998	0.000	98	14555	40.0	33.7	
45 Methyl acrylate	55	2.998	2.998	0.000	74	57373	20.0	15.5	
46 Tetrahydrofuran	42	3.005	3.005	0.000	93	53978	40.0	36.3	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	97	128721	50.0	42.3	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	97	88480	20.0	16.1	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	354782	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	96	91377	20.0	16.8	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	98	38079	100.0	87.8	
52 Isooctane	57	3.220	3.220	0.000	98	219539	20.0	16.3	
53 n-Heptane	57	3.313	3.313	0.000	94	55081	20.0	14.9	
54 Benzene	78	3.320	3.320	0.000	96	266418	20.0	18.7	
55 Propionitrile	54	3.342	3.342	0.000	97	98024	200.0	220.8	
56 Methacrylonitrile	67	3.363	3.363	0.000	94	283184	200.0	176.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	167849	50.0	40.3	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	98	177129	20.0	15.5	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	91190	20.0	16.1	
60 Isobutyl alcohol	43	3.557	3.557	0.000	98	60279	500.0	441.3	
61 t-Amyl alcohol	59	3.628	3.628	0.000	93	39065	200.0	155.0	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	574670	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	120831	20.0	14.7	
64 Methylcyclohexane	83	3.800	3.800	0.000	95	113733	20.0	17.3	
65 Trichloroethene	130	3.815	3.815	0.000	97	64363	20.0	18.1	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	92	143521	20.0	13.7	
67 Dibromomethane	93	4.187	4.187	0.000	96	39656	20.0	17.1	
68 n-Butanol	56	4.194	4.194	0.000	94	34514	500.0	422.0	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	88	69055	20.0	17.1	
70 Ethyl acrylate	55	4.359	4.359	0.000	86	76954	20.0	15.0	
71 Dichlorobromomethane	83	4.359	4.359	0.000	97	78528	20.0	16.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	31001	1000.0	1000.0	
73 Methyl methacrylate	100	4.560	4.560	0.000	94	31280	40.0	31.8	
74 1,4-Dioxane	88	4.581	4.581	0.000	95	16169	400.0	411.8	
75 n-Propyl acetate	43	4.717	4.717	0.000	99	89017	20.0	15.1	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	36782	20.0	13.6	
77 cis-1,3-Dichloropropene	75	5.011	5.011	0.000	96	98022	20.0	17.1	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	99	556436	50.0	45.3	
79 Toluene	91	5.262	5.262	0.000	93	291180	20.0	18.7	
80 Epichlorohydrin	57	5.290	5.290	0.000	99	129655	400.0	372.5	
81 2-Nitropropane	41	5.519	5.519	0.000	98	29367	40.0	25.5	
82 Tetrachloroethene	166	5.691	5.691	0.000	98	69727	20.0	21.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	99	343023	100.0	96.0	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	95	90520	20.0	17.2	
85 1,1,2-Trichloroethane	83	5.935	5.935	0.000	94	49248	20.0	18.6	
86 Ethyl methacrylate	69	6.021	6.021	0.000	91	76760	20.0	15.3	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	55009	20.0	17.1	
88 1,3-Dichloropropane	76	6.257	6.257	0.000	96	106980	20.0	19.6	
89 Ethylene Dibromide	107	6.386	6.386	0.000	100	55486	20.0	18.3	
90 n-Butyl acetate	43	6.730	6.730	0.000	98	87437	20.0	13.9	
91 2-Hexanone	43	6.794	6.794	0.000	98	237721	100.0	94.6	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	88	448459	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	92	184675	20.0	19.7	
94 Ethylbenzene	106	7.181	7.181	0.000	99	99330	20.0	19.2	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	93	57093	20.0	18.6	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	121083	20.0	19.4	
97 o-Xylene	106	7.991	7.991	0.000	93	112720	20.0	18.4	
98 Bromoform	173	8.055	8.055	0.000	95	33334	20.0	16.5	
99 Styrene	104	8.077	8.077	0.000	95	191464	20.0	18.7	
100 n-Butyl acrylate	73	8.399	8.399	0.000	96	40553	20.0	15.2	
101 Isopropylbenzene	105	8.478	8.478	0.000	96	315930	20.0	19.2	
102 Amyl acetate (mixed isomer	43	8.814	8.814	0.000	90	107531	20.0	13.7	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	90	169797	50.0	48.4	
104 Bromobenzene	156	8.965	8.965	0.000	97	80236	20.0	19.6	
105 N-Propylbenzene	91	9.108	9.108	0.000	99	377426	20.0	17.8	
106 1,1,2,2-Tetrachloroethane	83	9.259	9.259	0.000	98	77371	20.0	17.5	
107 2-Chlorotoluene	91	9.287	9.287	0.000	97	261400	20.0	18.2	
108 4-Ethyltoluene	105	9.302	9.302	0.000	98	318491	20.0	18.5	
109 1,2,3-Trichloropropane	110	9.387	9.387	0.000	98	23339	20.0	18.5	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	93	261624	20.0	17.8	
111 trans-1,4-Dichloro-2-buten	53	9.524	9.524	0.000	81	19409	20.0	12.4	
112 4-Chlorotoluene	91	9.552	9.552	0.000	98	240016	20.0	18.1	
113 tert-Butylbenzene	119	9.925	9.925	0.000	94	219013	20.0	18.1	
115 1,2,4-Trimethylbenzene	105	10.054	10.054	0.000	97	270043	20.0	18.5	
114 Butyl Methacrylate	87	10.054	10.054	0.000	89	73476	20.0	14.3	
116 sec-Butylbenzene	105	10.218	10.218	0.000	98	339782	20.0	18.1	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	96	153419	20.0	19.8	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	98	288393	20.0	18.5	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	96	251537	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.641	10.641	0.000	94	156929	20.0	18.7	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	282143	20.0	18.4	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	95	276481	20.0	18.6	
122 Benzyl chloride	126	11.092	11.092	0.000	97	20472	20.0	12.6	
123 p-Diethylbenzene	119	11.107	11.107	0.000	93	161469	20.0	19.4	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	274550	20.0	18.4	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	96	149752	20.0	20.2	
126 1,2,4,5-Tetramethylbenzene	119	12.195	12.195	0.000	98	252104	20.0	18.7	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	91	13375	20.0	16.7	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	97	122112	20.0	21.9	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	94	103236	20.0	21.0	
130 Hexachlorobutadiene	225	13.069	13.069	0.000	94	48797	20.0	20.2	
131 Naphthalene	128	13.356	13.356	0.000	99	199654	20.0	18.0	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	94	96233	20.0	21.6	
S 133 1,2-Dichloroethene, Total	100				0		40.0	32.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 134 1,3-Dichloropropene, Total	100				0		40.0	34.3	
S 135 Xylenes, Total	100				0		40.0	37.8	
S 137 Total BTEX	1				0		100.0	94.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00266	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00123	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Jul-2018 14:13:30 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47475.D

Injection Date: 30-Jun-2018 15:41:30 Instrument ID: CVOAMS13 Operator ID:

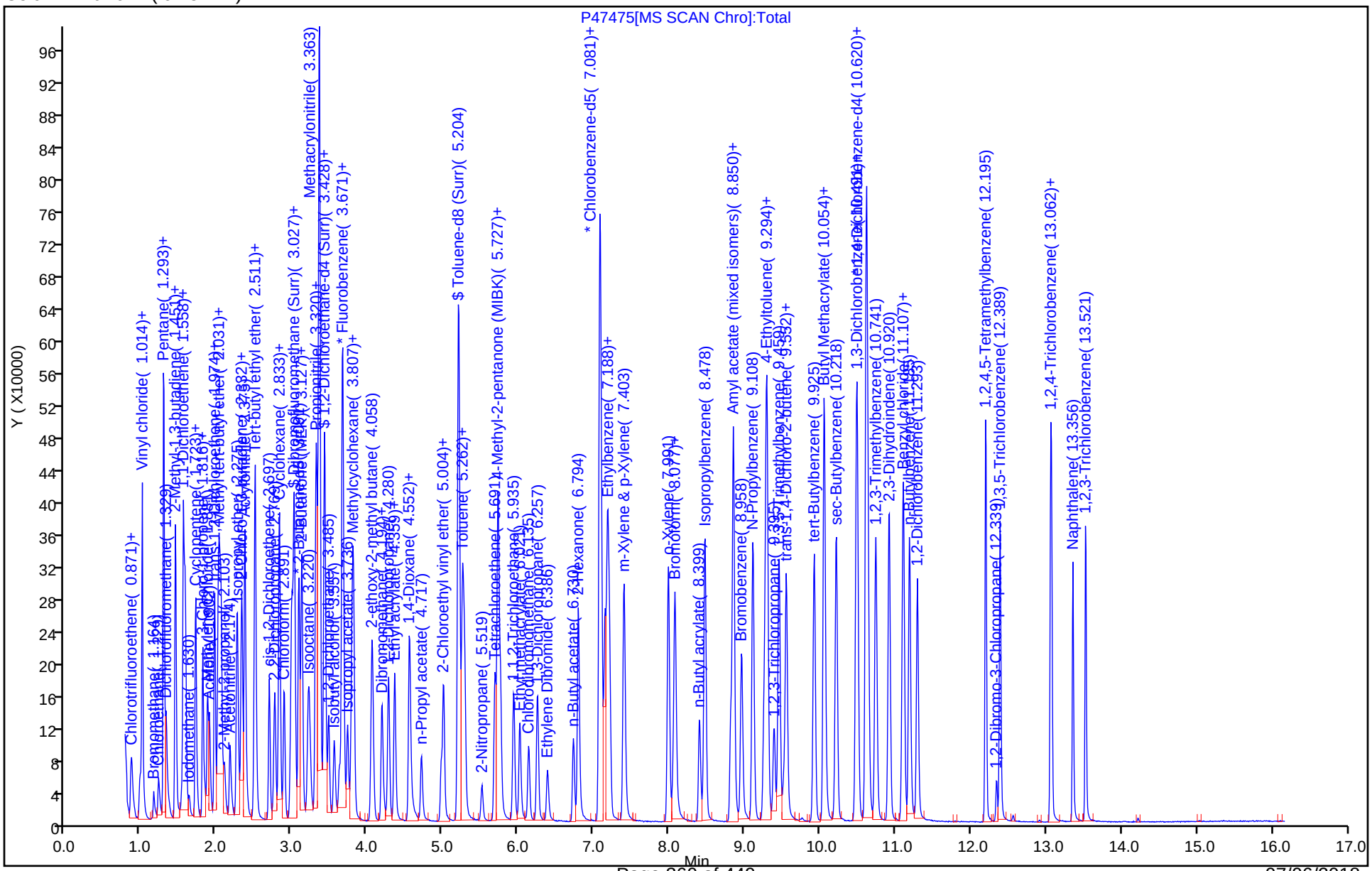
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

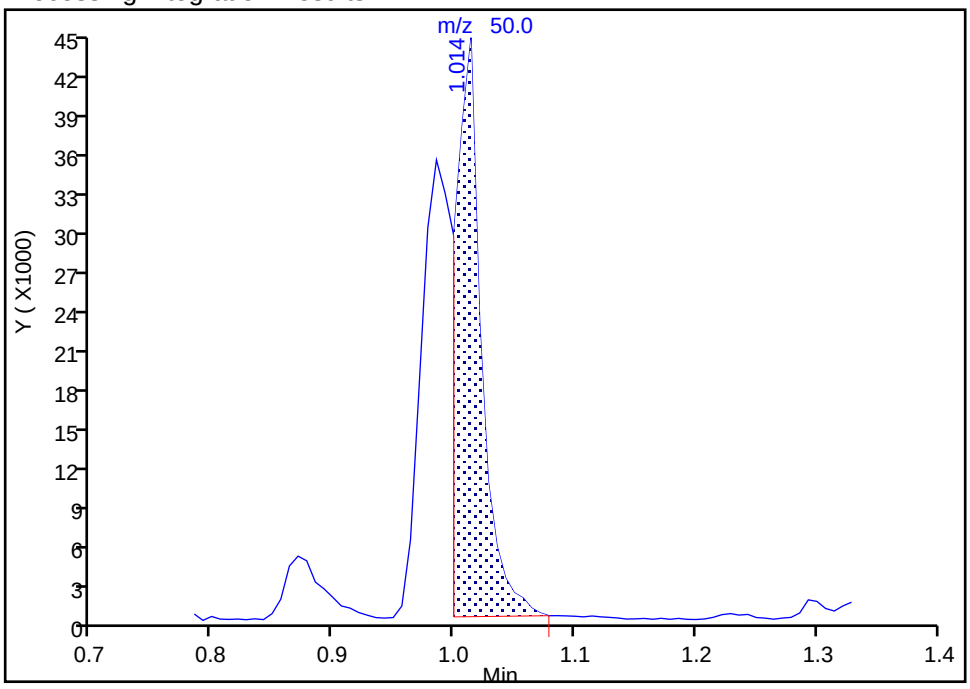
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47475.D
Injection Date: 30-Jun-2018 15:41:30 Instrument ID: CVOAMS13
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

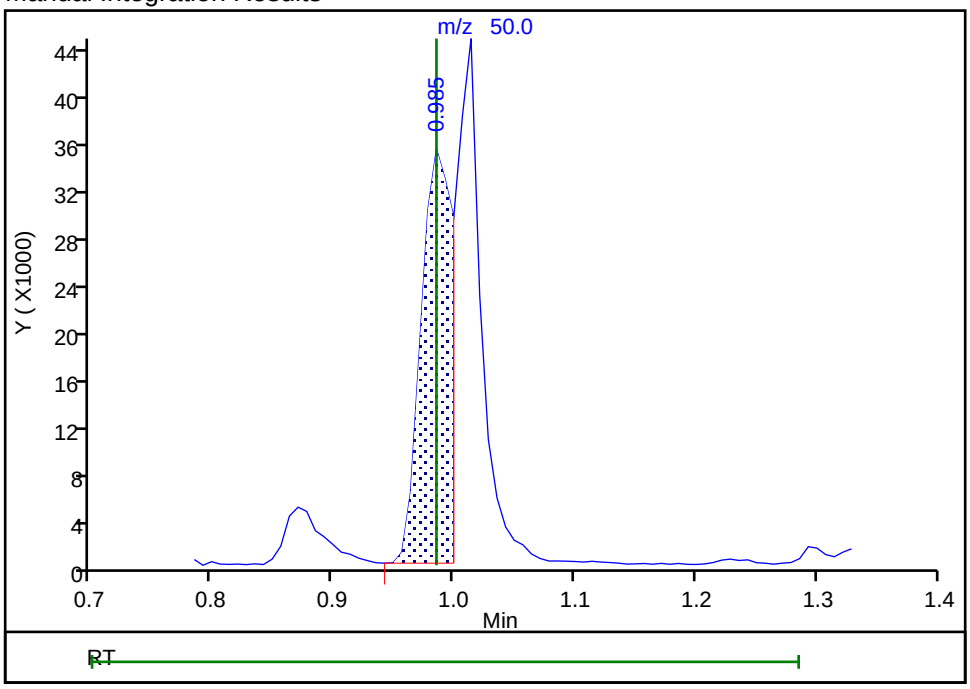
Processing Integration Results

RT: 1.01
Area: 66645
Amount: 16.247147
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 64476
Amount: 15.173417
Amount Units: ug/l



Reviewer: xuyvo, 01-Jul-2018 14:12:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532498/2 Calibration Date: 06/30/2018 17:34

Instrument ID: CVOAMS4 Calib Start Date: 05/24/2018 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/24/2018 06:58

Lab File ID: D52027.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	QuaF		0.2320		18.7	20.0	-6.7	20.0
Dichlorodifluoromethane	Ave	0.4327	0.4237	0.1000	19.6	20.0	-2.1	20.0
Chloromethane	Ave	0.3631	0.3179	0.1000	17.5	20.0	-12.5	20.0
Vinyl chloride	Ave	0.3165	0.3141	0.1000	19.8	20.0	-0.8	20.0
Butadiene	Ave	0.2859	0.2598		18.2	20.0	-9.1	20.0
Bromomethane	Ave	0.2392	0.2577	0.1000	21.6	20.0	7.8	50.0
Chloroethane	Ave	0.1747	0.1865	0.1000	21.3	20.0	6.7	50.0
Dichlorofluoromethane	Ave	0.4935	0.4823		19.5	20.0	-2.3	20.0
Pentane	Ave	0.0464	0.0467		40.3	40.0	0.7	20.0
Trichlorofluoromethane	Ave	0.3947	0.3939	0.1000	20.0	20.0	-0.2	20.0
Ethyl ether	Ave	0.1861	0.1707		18.3	20.0	-8.3	20.0
Ethanol	Ave	0.0437	0.0436		798	800	-0.2	50.0
2-Methyl-1,3-butadiene	Ave	0.2028	0.2134		21.0	20.0	5.2	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2437	0.2665		21.9	20.0	9.4	20.0
Acrolein	Ave	1.086	0.9884		273	300	-9.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2714	0.3171	0.1000	23.4	20.0	16.8	20.0
1,1-Dichloroethene	Ave	0.2612	0.2718	0.1000	20.8	20.0	4.0	20.0
Acetone	Ave	0.6687	0.6472	0.0500	96.8	100	-3.2	50.0
Iodomethane	Ave	0.6193	0.6300		20.3	20.0	1.7	20.0
Carbon disulfide	Ave	0.9202	0.9076	0.1000	19.7	20.0	-1.4	50.0
Isopropyl alcohol	Ave	0.6017	0.5170		172	200	-14.1	50.0
Allyl chloride	Ave	0.1560	0.1504		19.3	20.0	-3.6	20.0
Cyclopentene	Ave	0.5758	0.6122		21.3	20.0	6.3	20.0
Methyl acetate	Ave	0.1696	0.1413	0.1000	33.3	40.0	-16.7	20.0
Acetonitrile	QuaF		0.4952		238	200	19.1	20.0
Methylene Chloride	Ave	0.3090	0.3017	0.1000	19.5	20.0	-2.4	20.0
2-Methyl-2-propanol	Ave	1.089	1.000		184	200	-8.2	50.0
Methyl tert-butyl ether	Ave	0.6858	0.6739	0.1000	19.7	20.0	-1.7	20.0
trans-1,2-Dichloroethene	Ave	0.2856	0.2742	0.1000	19.2	20.0	-4.0	20.0
Acrylonitrile	Ave	2.511	2.225		177	200	-11.4	20.0
Hexane	Ave	0.3340	0.3248		19.4	20.0	-2.8	20.0
Isopropyl ether	Ave	0.7113	0.6731		18.9	20.0	-5.4	20.0
1,1-Dichloroethane	Ave	0.4403	0.4147	0.2000	18.8	20.0	-5.8	20.0
Vinyl acetate	Ave	0.0467	0.0424		36.3	40.0	-9.2	20.0
2-Chloro-1,3-butadiene	Ave	0.2357	0.2256		19.1	20.0	-4.3	20.0
Tert-butyl ethyl ether	Ave	0.6855	0.6632		19.3	20.0	-3.3	20.0
2,2-Dichloropropane	Ave	0.1232	0.1205		19.6	20.0	-2.2	20.0
cis-1,2-Dichloroethene	Ave	0.3287	0.2920	0.1000	17.8	20.0	-11.2	20.0
2-Butanone (MEK)	Ave	0.2730	0.2571	0.0500	94.2	100	-5.8	50.0
Ethyl acetate	Ave	0.2282	0.2295		40.2	40.0	0.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532498/2 Calibration Date: 06/30/2018 17:34

Instrument ID: CVOAMS4 Calib Start Date: 05/24/2018 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/24/2018 06:58

Lab File ID: D52027.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.1930	0.1608		16.7	20.0	-16.7	20.0
Propionitrile	Ave	0.0337	0.0289		172	200	-14.1	20.0
Tetrahydrofuran	Ave	0.3089	0.3000		38.8	40.0	-2.9	20.0
Chlorobromomethane	Ave	0.1629	0.1505		18.5	20.0	-7.6	20.0
Methacrylonitrile	Ave	0.0931	0.0799		172	200	-14.1	20.0
Chloroform	Ave	0.4414	0.3999	0.2000	18.1	20.0	-9.4	20.0
Cyclohexane	Ave	0.3735	0.4025	0.1000	21.6	20.0	7.8	50.0
1,1,1-Trichloroethane	Ave	0.3758	0.3642	0.1000	19.4	20.0	-3.1	20.0
Carbon tetrachloride	Ave	0.3308	0.3176	0.1000	19.2	20.0	-4.0	20.0
1,1-Dichloropropene	Ave	0.3447	0.3110		18.0	20.0	-9.8	20.0
Isobutyl alcohol	Ave	0.5416	0.4659		430	500	-14.0	50.0
Benzene	Ave	1.325	1.255	0.5000	18.9	20.0	-5.3	20.0
Isopropyl acetate	Ave	0.6668	0.6019		18.1	20.0	-9.7	20.0
Tert-amyl methyl ether	Ave	0.2172	0.2124		19.6	20.0	-2.2	20.0
1,2-Dichloroethane	Ave	0.3029	0.2516	0.1000	16.6	20.0	-16.9	20.0
n-Heptane	Ave	0.1867	0.1805		19.3	20.0	-3.3	20.0
n-Butanol	Ave	0.2234	0.1896		424	500	-15.1	50.0
Trichloroethene	Ave	0.2641	0.2309	0.2000	17.5	20.0	-12.5	20.0
Methylcyclohexane	Ave	0.4503	0.4675	0.1000	20.8	20.0	3.8	50.0
Ethyl acrylate	Ave	0.0174	0.0157		18.0	20.0	-9.8	20.0
1,2-Dichloropropane	Ave	0.2315	0.2070	0.1000	17.9	20.0	-10.6	20.0
Methyl methacrylate	Ave	0.0584	0.0551		37.7	40.0	-5.6	20.0
1,4-Dioxane	Ave	1.071	1.073		401	400	0.2	50.0
Dibromomethane	Ave	0.1593	0.1404		17.6	20.0	-11.8	20.0
n-Propyl acetate	Ave	0.2837	0.2467		17.4	20.0	-13.1	20.0
Bromodichloromethane	Ave	0.3008	0.2547	0.2000	16.9	20.0	-15.3	20.0
2-Nitropropane	Ave	0.0503	0.0346		27.5	40.0	-31.3*	20.0
2-Chloroethyl vinyl ether	Ave	0.0766	0.0164		4.29	20.0	-78.6*	20.0
Epichlorohydrin	Ave	0.1992	0.1913		384	400	-4.0	20.0
cis-1,3-Dichloropropene	Ave	0.4500	0.4246	0.2000	18.9	20.0	-5.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.920	1.900	0.0500	99.0	100	-1.0	50.0
Toluene	Ave	1.382	1.278	0.4000	18.5	20.0	-7.6	20.0
trans-1,3-Dichloropropene	Ave	0.3764	0.3537	0.1000	18.8	20.0	-6.0	50.0
Ethyl methacrylate	Ave	0.2512	0.2246		17.9	20.0	-10.6	20.0
1,1,2-Trichloroethane	Ave	0.2217	0.2051	0.1000	18.5	20.0	-7.5	20.0
Tetrachloroethene	Ave	0.4142	0.3937	0.2000	19.0	20.0	-4.9	20.0
1,3-Dichloropropane	Ave	0.4075	0.3821		18.8	20.0	-6.2	20.0
2-Hexanone	Ave	1.236	1.188	0.0500	96.1	100	-3.9	50.0
n-Butyl acetate	Ave	0.0710	0.0686		19.3	20.0	-3.4	20.0
Dibromochloromethane	Ave	0.3102	0.2779	0.1000	17.9	20.0	-10.4	50.0
1,2-Dibromoethane	Ave	0.2656	0.2524	0.1000	19.0	20.0	-5.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Lab Sample ID: CCVIS 460-532498/2 Calibration Date: 06/30/2018 17:34

Instrument ID: CVOAMS4 Calib Start Date: 05/24/2018 03:17

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 05/24/2018 06:58

Lab File ID: D52027.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	0.9089	0.8470	0.5000	18.6	20.0	-6.8	20.0
Ethylbenzene	Ave	0.4866	0.4680	0.1000	19.2	20.0	-3.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3481	0.3297		18.9	20.0	-5.3	20.0
m-Xylene & p-Xylene	Ave	0.6047	0.5692	0.1000	18.8	20.0	-5.9	20.0
n-Butyl acrylate	Ave	0.1877	0.1819		19.4	20.0	-3.1	20.0
o-Xylene	Ave	0.5931	0.5764	0.3000	19.4	20.0	-2.8	20.0
Styrene	Ave	0.9517	0.9040	0.3000	19.0	20.0	-5.0	20.0
Bromoform	Ave	0.2140	0.1869	0.1000	17.5	20.0	-12.6	20.0
Isopropylbenzene	Ave	1.580	1.569	0.1000	19.9	20.0	-0.7	20.0
Bromobenzene	Ave	0.7214	0.6798		18.8	20.0	-5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6306	0.6222	0.3000	19.7	20.0	-1.3	20.0
N-Propylbenzene	Ave	3.050	3.050		20.0	20.0	0.0	20.0
1,2,3-Trichloropropane	Ave	0.1851	0.1744		18.9	20.0	-5.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1447	0.1374		19.0	20.0	-5.0	20.0
4-Ethyltoluene	Ave	2.599	2.654		20.4	20.0	2.1	20.0
2-Chlorotoluene	Ave	2.060	2.030		19.7	20.0	-1.5	20.0
1,3,5-Trimethylbenzene	Ave	2.256	2.304		20.4	20.0	2.1	20.0
4-Chlorotoluene	Ave	1.749	1.681		19.2	20.0	-3.9	20.0
Butyl Methacrylate	Ave	0.6758	0.6908		20.4	20.0	2.2	20.0
tert-Butylbenzene	Ave	1.903	1.910		20.1	20.0	0.4	20.0
1,2,4-Trimethylbenzene	Ave	2.283	2.327		20.4	20.0	1.9	20.0
sec-Butylbenzene	Ave	2.905	3.005		20.7	20.0	3.5	20.0
4-Isopropyltoluene	Ave	2.564	2.670		20.8	20.0	4.1	20.0
1,3-Dichlorobenzene	Ave	1.359	1.333	0.6000	19.6	20.0	-1.9	20.0
1,4-Dichlorobenzene	Ave	1.371	1.340	0.5000	19.5	20.0	-2.3	20.0
Benzyl chloride	Ave	0.2187	0.2323		21.2	20.0	6.2	50.0
Indan	Ave	1.135	1.066		18.8	20.0	-6.1	20.0
p-Diethylbenzene	Ave	1.555	1.712		22.0	20.0	10.1	20.0
n-Butylbenzene	Ave	1.292	1.365		21.1	20.0	5.7	20.0
1,2-Dichlorobenzene	Ave	1.357	1.344	0.4000	19.8	20.0	-1.0	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.300	2.440		21.2	20.0	6.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1635	0.1541	0.0500	18.9	20.0	-5.7	50.0
1,3,5-Trichlorobenzene	Ave	1.169	1.177		20.1	20.0	0.6	20.0
1,2,4-Trichlorobenzene	Ave	1.071	1.085	0.2000	20.3	20.0	1.3	20.0
Hexachlorobutadiene	Ave	0.5365	0.5069		18.9	20.0	-5.5	20.0
Naphthalene	Ave	2.424	2.445		20.2	20.0	0.9	50.0
1,2,3-Trichlorobenzene	Ave	1.056	1.076		20.4	20.0	1.9	20.0
Dibromofluoromethane (Surr)	Ave	0.2966	0.2948		49.7	50.0	-0.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2577	0.2413		46.8	50.0	-6.4	20.0
Toluene-d8 (Surr)	Ave	1.326	1.330		50.2	50.0	0.3	20.0
4-Bromofluorobenzene	Ave	0.8734	0.7871		45.1	50.0	-9.9	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52027.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 30-Jun-2018 17:34:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0074660-002
Operator ID: Instrument ID: CVOAMS4
Sublist: chrom-8260S_4*sub35

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 05:56:32 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: kluseys Date: 30-Jun-2018 17:58:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.545	1.545	0.000	88	54567	20.0	18.7	a
2 Dichlorodifluoromethane	85	1.576	1.576	0.000	99	99635	20.0	19.6	
3 Chloromethane	50	1.783	1.783	0.000	99	74759	20.0	17.5	
4 Vinyl chloride	62	1.881	1.881	0.000	97	73862	20.0	19.8	
5 Butadiene	54	1.893	1.893	0.000	97	61095	20.0	18.2	
6 Bromomethane	94	2.222	2.222	0.000	99	60612	20.0	21.6	
7 Chloroethane	64	2.295	2.295	0.000	99	43850	20.0	21.3	
8 Dichlorofluoromethane	67	2.527	2.527	0.000	98	113432	20.0	19.5	
10 Pentane	72	2.533	2.533	0.000	96	21968	40.0	40.3	
9 Trichlorofluoromethane	101	2.533	2.533	0.000	96	92624	20.0	20.0	
11 Ethyl ether	59	2.765	2.765	0.000	91	40151	20.0	18.3	
12 Ethanol	46	2.771	2.771	0.000	88	14051	800.0	798.1	
13 2-Methyl-1,3-butadiene	53	2.789	2.789	0.000	97	50177	20.0	21.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.862	2.862	0.000	92	62679	20.0	21.9	
16 Acrolein	56	2.972	2.972	0.000	96	119359	300.0	273.0	
15 1,1,2-Trichloro-1,2,2-trif	101	3.002	3.002	0.000	97	74565	20.0	23.4	
17 1,1-Dichloroethene	96	3.015	3.015	0.000	96	63911	20.0	20.8	
18 Acetone	43	3.118	3.118	0.000	87	71784	100.0	96.8	
19 Iodomethane	142	3.191	3.191	0.000	96	148160	20.0	20.3	
20 Carbon disulfide	76	3.222	3.222	0.000	99	213453	20.0	19.7	
21 Isopropyl alcohol	45	3.252	3.252	0.000	98	41620	200.0	171.8	
22 3-Chloro-1-propene	76	3.393	3.393	0.000	89	35372	20.0	19.3	
23 Cyclopentene	67	3.411	3.411	0.000	90	143975	20.0	21.3	
24 Methyl acetate	43	3.417	3.417	0.000	99	66441	40.0	33.3	
25 Acetonitrile	40	3.490	3.490	0.000	99	39869	200.0	238.2	
26 Methylene Chloride	84	3.551	3.551	0.000	89	70944	20.0	19.5	
* 27 TBA-d9 (IS)	65	3.569	3.569	0.000	38	402524	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.649	3.649	0.000	98	80518	200.0	183.7	
29 Methyl tert-butyl ether	73	3.752	3.752	0.000	96	158486	20.0	19.7	
30 trans-1,2-Dichloroethene	96	3.777	3.777	0.000	91	64486	20.0	19.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.868	3.868	0.000	94	179092	200.0	177.2	
32 Hexane	57	3.966	3.966	0.000	92	76388	20.0	19.4	
33 Isopropyl ether	45	4.240	4.240	0.000	96	158299	20.0	18.9	
34 1,1-Dichloroethane	63	4.264	4.264	0.000	99	97536	20.0	18.8	
35 Vinyl acetate	86	4.289	4.289	0.000	99	19932	40.0	36.3	
36 2-Chloro-1,3-butadiene	88	4.313	4.313	0.000	89	53057	20.0	19.1	
37 Tert-butyl ethyl ether	59	4.630	4.630	0.000	90	155957	20.0	19.3	
* 38 2-Butanone-d5	46	4.856	4.856	0.000	0	277309	250.0	250.0	
39 2,2-Dichloropropane	79	4.874	4.874	0.000	95	28341	20.0	19.6	
40 cis-1,2-Dichloroethene	96	4.904	4.904	0.000	99	68681	20.0	17.8	
41 2-Butanone (MEK)	72	4.929	4.929	0.000	100	28516	100.0	94.2	
42 Ethyl acetate	70	4.941	4.941	0.000	97	10182	40.0	40.2	
43 Methyl acrylate	55	5.002	5.002	0.000	100	37806	20.0	16.7	
44 Propionitrile	54	5.087	5.087	0.000	98	68066	200.0	171.8	
45 Tetrahydrofuran	72	5.173	5.173	0.000	91	13311	40.0	38.8	
46 Chlorobromomethane	128	5.179	5.179	0.000	77	35398	20.0	18.5	
47 Methacrylonitrile	67	5.215	5.215	0.000	91	187932	200.0	171.7	
48 Chloroform	83	5.252	5.252	0.000	99	94055	20.0	18.1	
49 Cyclohexane	84	5.404	5.404	0.000	88	94651	20.0	21.6	
50 1,1,1-Trichloroethane	97	5.423	5.423	0.000	99	85646	20.0	19.4	
$ 51 Dibromofluoromethane (Surr	113	5.447	5.447	0.000	98	173343	50.0	49.7	
52 Carbon tetrachloride	117	5.569	5.569	0.000	97	74684	20.0	19.2	
53 1,1-Dichloropropene	75	5.606	5.606	0.000	98	73133	20.0	18.0	
54 Isobutyl alcohol	43	5.801	5.801	0.000	94	93761	500.0	430.1	
55 Benzene	78	5.849	5.849	0.000	97	208336	20.0	18.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.874	5.874	0.000	96	141880	50.0	46.8	
57 Tert-amyl methyl ether	87	5.947	5.947	0.000	91	49960	20.0	19.6	
58 Isopropyl acetate	43	5.947	5.947	0.000	96	141560	20.0	18.1	
59 1,2-Dichloroethane	62	5.965	5.965	0.000	97	59178	20.0	16.6	
60 n-Heptane	57	6.063	6.063	0.000	89	42444	20.0	19.3	
* 61 Fluorobenzene	96	6.209	6.209	0.000	99	587941	50.0	50.0	
62 n-Butanol	56	6.624	6.624	0.000	86	38154	500.0	424.3	
63 Trichloroethene	95	6.654	6.654	0.000	95	54312	20.0	17.5	
64 Methylcyclohexane	83	6.794	6.794	0.000	95	109948	20.0	20.8	
65 Ethyl acrylate	73	6.819	6.819	0.000	98	3698	20.0	18.0	
66 1,2-Dichloropropane	63	6.989	6.989	0.000	94	48684	20.0	17.9	
* 67 1,4-Dioxane-d8	96	7.056	7.056	0.000	0	33392	1000.0	1000.0	
68 Methyl methacrylate	100	7.093	7.093	0.000	85	25926	40.0	37.7	
69 1,4-Dioxane	88	7.117	7.117	0.000	83	14334	400.0	400.7	
70 Dibromomethane	93	7.130	7.130	0.000	92	33020	20.0	17.6	
71 n-Propyl acetate	43	7.160	7.160	0.000	97	58012	20.0	17.4	
72 Dichlorobromomethane	83	7.294	7.294	0.000	98	59910	20.0	16.9	
73 2-Nitropropane	41	7.629	7.629	0.000	95	16271	40.0	27.5	
74 2-Chloroethyl vinyl ether	63	7.642	7.642	0.000	87	3864	20.0	4.29	
75 Epichlorohydrin	57	7.733	7.733	0.000	98	84878	400.0	384.1	
76 cis-1,3-Dichloropropene	75	7.782	7.782	0.000	89	70501	20.0	18.9	
77 4-Methyl-2-pentanone (MIBK	43	7.928	7.928	0.000	95	210753	100.0	99.0	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	552113	50.0	50.2	
79 Toluene	91	8.062	8.062	0.000	93	212143	20.0	18.5	
80 trans-1,3-Dichloropropene	75	8.355	8.355	0.000	98	58730	20.0	18.8	
81 Ethyl methacrylate	69	8.379	8.379	0.000	89	52814	20.0	17.9	
82 1,1,2-Trichloroethane	83	8.526	8.526	0.000	96	34061	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	8.556	8.556	0.000	96	65372	20.0	19.0	
84 1,3-Dichloropropane	76	8.684	8.684	0.000	90	63449	20.0	18.8	
85 2-Hexanone	43	8.727	8.727	0.000	95	131761	100.0	96.1	
86 n-Butyl acetate	73	8.806	8.806	0.000	98	11394	20.0	19.3	
87 Chlorodibromomethane	129	8.855	8.855	0.000	98	46140	20.0	17.9	
88 Ethylene Dibromide	107	8.965	8.965	0.000	98	41913	20.0	19.0	
* 89 Chlorobenzene-d5	117	9.336	9.336	0.000	84	415100	50.0	50.0	
90 Chlorobenzene	112	9.361	9.361	0.000	97	140629	20.0	18.6	
91 Ethylbenzene	106	9.422	9.422	0.000	97	77712	20.0	19.2	
92 1,1,1,2-Tetrachloroethane	131	9.440	9.440	0.000	96	54749	20.0	18.9	
93 m-Xylene & p-Xylene	106	9.525	9.525	0.000	99	94504	20.0	18.8	
94 n-Butyl acrylate	73	9.818	9.818	0.000	98	30199	20.0	19.4	
95 o-Xylene	106	9.849	9.849	0.000	95	95710	20.0	19.4	
96 Styrene	104	9.873	9.873	0.000	97	150093	20.0	19.0	
97 Amyl acetate (mixed isomer	43	9.989	9.989	0.000	91	68168	20.0	19.7	
98 Bromoform	173	10.050	10.050	0.000	98	31040	20.0	17.5	
99 Isopropylbenzene	105	10.129	10.129	0.000	95	260543	20.0	19.9	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	186844	50.0	45.1	
101 Bromobenzene	156	10.403	10.403	0.000	90	64552	20.0	18.8	
102 1,1,2,2-Tetrachloroethane	83	10.422	10.422	0.000	98	59082	20.0	19.7	
103 N-Propylbenzene	91	10.446	10.446	0.000	100	289633	20.0	20.0	
104 1,2,3-Trichloropropane	110	10.464	10.464	0.000	98	16563	20.0	18.9	
105 trans-1,4-Dichloro-2-buten	53	10.470	10.470	0.000	81	13044	20.0	19.0	
106 4-Ethyltoluene	105	10.531	10.531	0.000	98	251974	20.0	20.4	
107 2-Chlorotoluene	91	10.537	10.537	0.000	97	192750	20.0	19.7	
108 1,3,5-Trimethylbenzene	105	10.580	10.580	0.000	94	218735	20.0	20.4	
109 4-Chlorotoluene	91	10.623	10.623	0.000	96	159654	20.0	19.2	
110 Butyl Methacrylate	87	10.635	10.635	0.000	88	65597	20.0	20.4	
111 tert-Butylbenzene	119	10.818	10.818	0.000	96	181376	20.0	20.1	
112 1,2,4-Trimethylbenzene	105	10.861	10.861	0.000	96	220923	20.0	20.4	
113 sec-Butylbenzene	105	10.976	10.976	0.000	99	285346	20.0	20.7	
114 4-Isopropyltoluene	119	11.080	11.080	0.000	98	253509	20.0	20.8	
115 1,3-Dichlorobenzene	146	11.098	11.098	0.000	98	126532	20.0	19.6	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	92	237383	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.171	11.171	0.000	96	127280	20.0	19.5	
118 Benzyl chloride	126	11.275	11.275	0.000	99	22059	20.0	21.2	
119 2,3-Dihydroindene	117	11.330	11.330	0.000	94	250693	20.0	18.8	
120 p-Diethylbenzene	119	11.354	11.354	0.000	94	162580	20.0	22.0	
121 n-Butylbenzene	92	11.379	11.379	0.000	95	129613	20.0	21.1	
122 1,2-Dichlorobenzene	146	11.452	11.452	0.000	99	127618	20.0	19.8	
123 1,2,4,5-Tetramethylbenzene	119	11.982	11.982	0.000	99	231668	20.0	21.2	
124 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	90	14632	20.0	18.9	
125 1,3,5-Trichlorobenzene	180	12.232	12.232	0.000	97	111740	20.0	20.1	
126 1,2,4-Trichlorobenzene	180	12.860	12.860	0.000	94	103046	20.0	20.3	
127 Hexachlorobutadiene	225	12.970	12.970	0.000	97	48128	20.0	18.9	
128 Naphthalene	128	13.153	13.153	0.000	99	232176	20.0	20.2	
129 1,2,3-Trichlorobenzene	180	13.439	13.439	0.000	96	102208	20.0	20.4	
S 130 1,2-Dichloroethene, Total	100				0		40.0	37.0	
S 131 1,3-Dichloropropene, Total	100				0		40.0	37.7	
S 132 Xylenes, Total	100				0		40.0	38.3	
S 133 Total BTEX	1				0		100.0	94.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00266	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

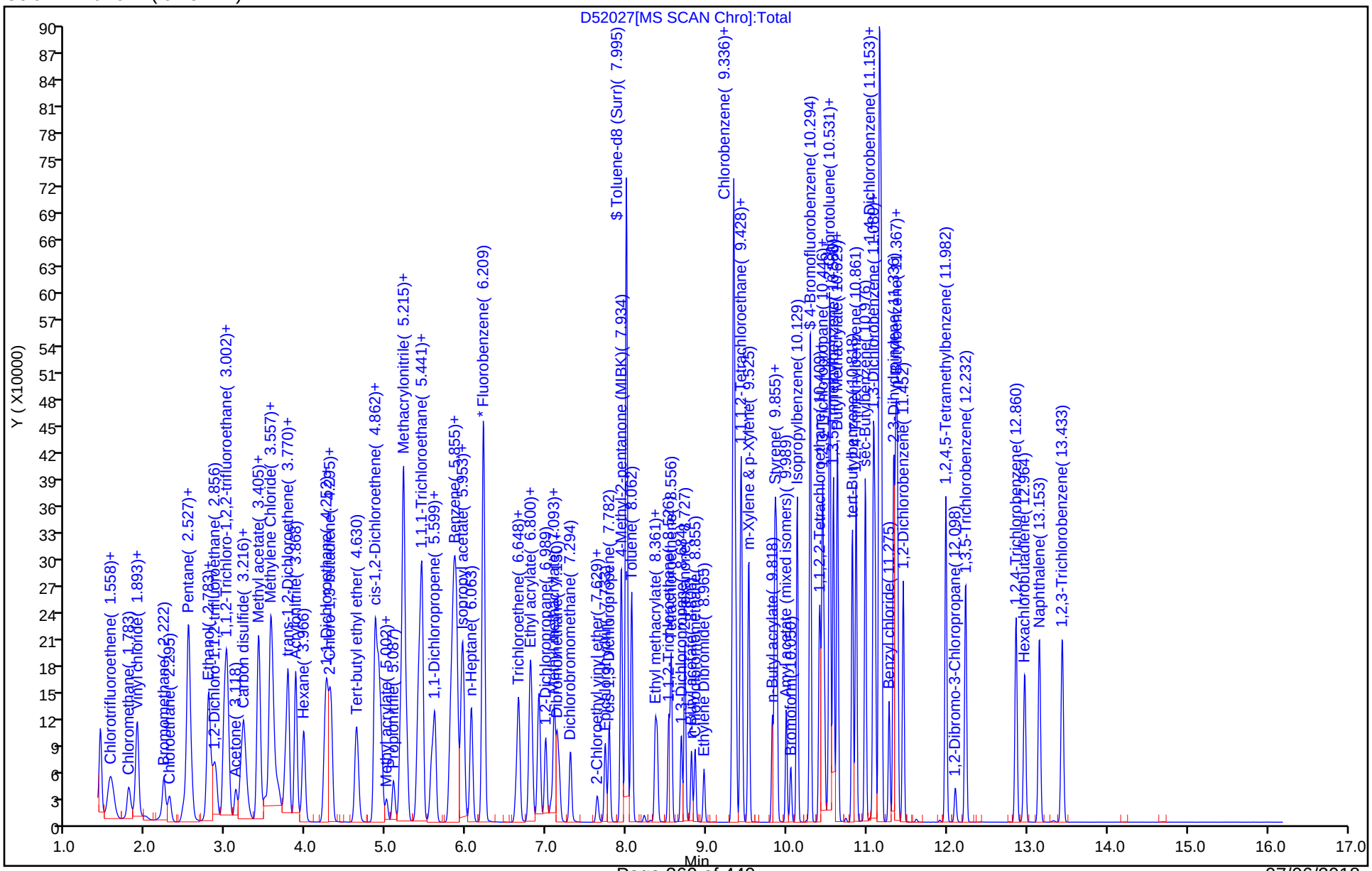
Report Date: 01-Jul-2018 05:56:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52027.D

Injection Date:	30-Jun-2018 17:34:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	CCVIS			Worklist Smp#:	2
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	1
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

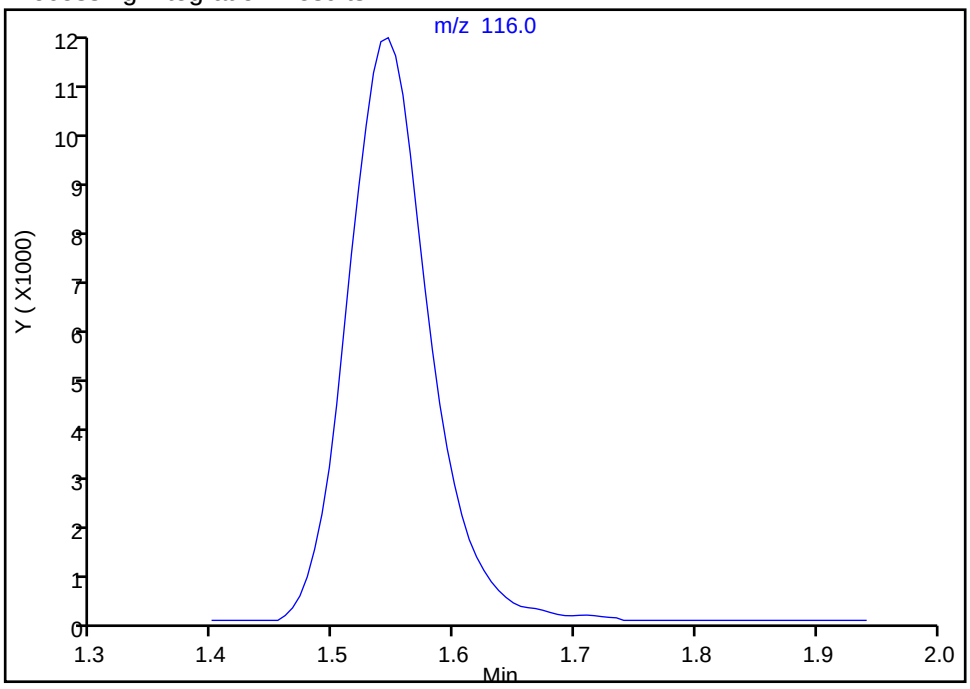
Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52027.D
Injection Date: 30-Jun-2018 17:34:30 Instrument ID: CVOAMS4
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

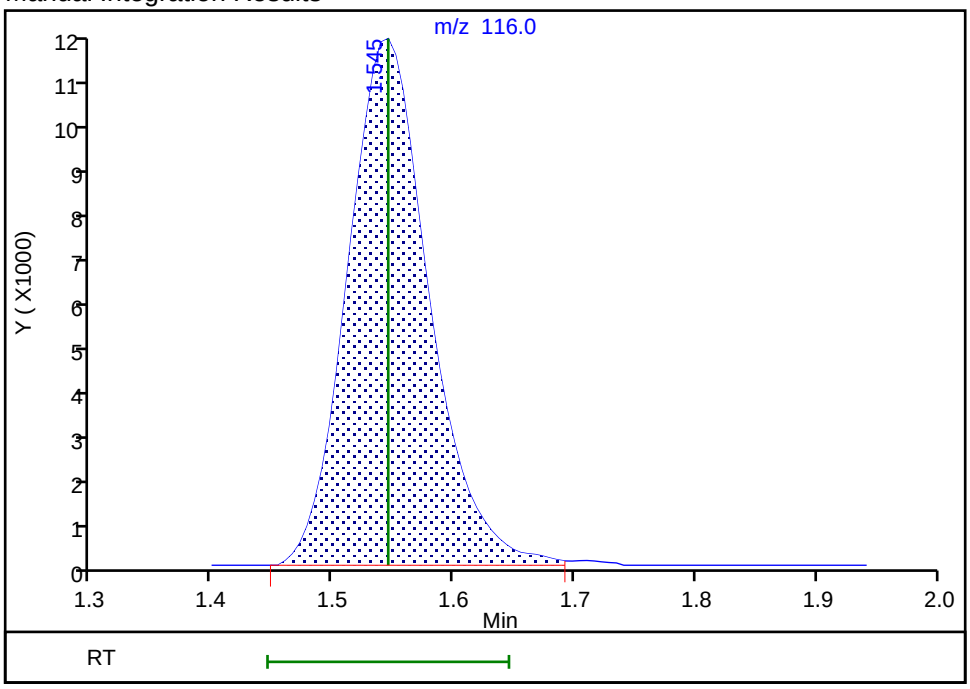
Not Detected
Expected RT: 1.55

Processing Integration Results



Manual Integration Results

RT: 1.55
Area: 54567
Amount: 18.650193
Amount Units: ug/l



Reviewer: kluseys, 30-Jun-2018 17:58:19
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43989.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Apr-2018 01:16:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0070689-001
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 20-Apr-2018 09:05:18 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: boykink Date: 20-Apr-2018 01:15:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 78 Toluene-d8 (Surr)	98	5.103	5.103	0.000	1	33	NR	NR	
$ 139 BFB	95	2.179	2.179	0.000	83	70625	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

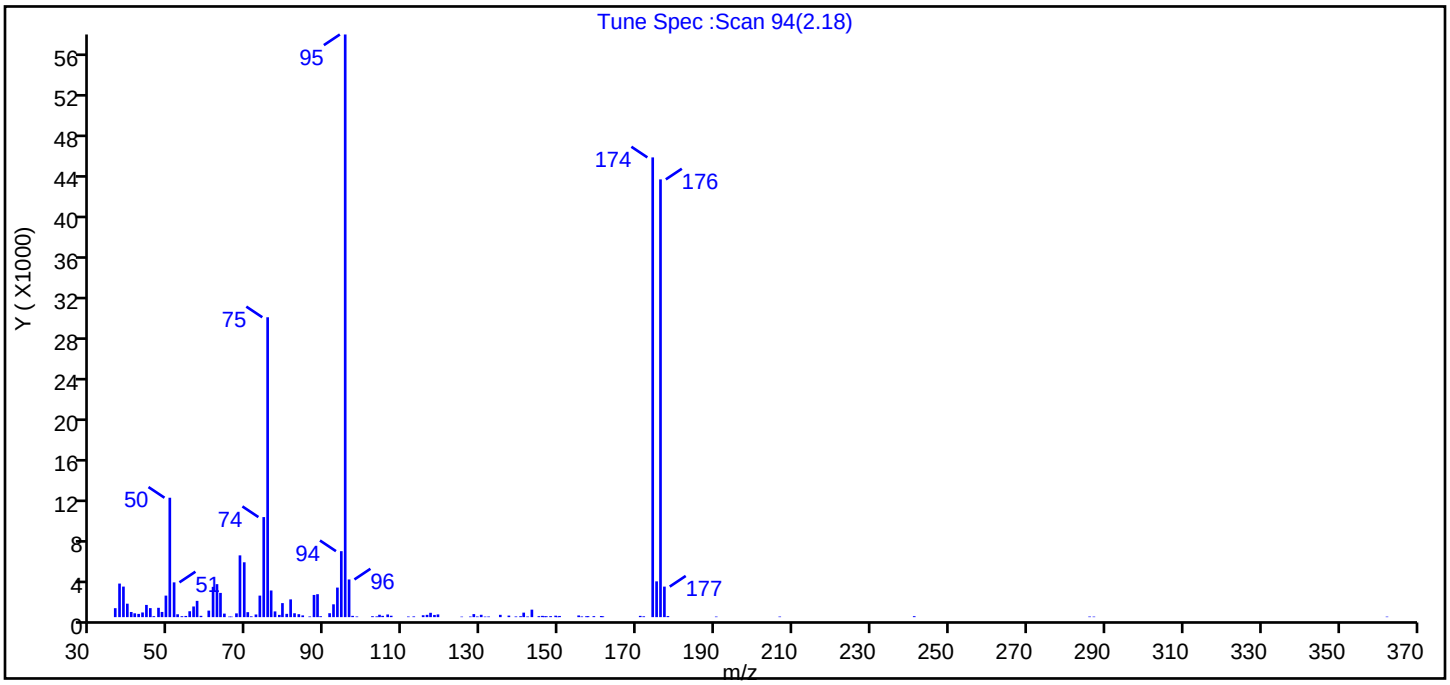
BFB_00016 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43989.D
Injection Date: 20-Apr-2018 01:16:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.5
75	30 to 60% of m/z 95	51.5
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	78.9
175	5 to 9% of m/z 174	6.1 (7.8)
176	Greater than 95% but less than 101% of m/z 174	75.1 (95.2)
177	5 to 9% of m/z 176	5.2 (7.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P43989.D\8260W_13.rslt\spectra.d
Injection Date: 20-Apr-2018 01:16:30
Spectrum: Tune Spec :Scan 94(2.18)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	878	65.80	54	96.90	127	144.70	95
37.10	3286	67.10	369	98.00	65	145.60	125
38.10	2991	68.00	6047	102.00	90	146.10	83
39.10	1318	69.10	5370	103.10	72	146.60	90
40.10	505	70.00	486	103.80	235	147.70	99
41.00	374	70.90	80	104.60	128	149.00	142
42.00	318	72.10	261	105.90	262	149.50	53
43.00	458	73.10	2108	106.80	138	150.00	117
44.00	1197	74.10	9794	111.20	62	154.90	164
45.00	883	75.10	29352	112.60	73	155.70	69
45.90	94	76.00	2609	115.00	186	156.90	85
47.10	914	77.00	562	116.00	225	157.30	96
48.00	509	78.10	221	116.90	425	158.80	98
49.00	2108	78.90	1373	117.90	216	160.70	108
50.00	11688	80.00	323	118.80	266	161.10	78
51.10	3405	81.00	1739	124.90	50	170.70	124
52.00	281	82.00	378	127.10	58	171.60	81
53.10	92	83.10	289	128.00	299	173.90	45000
54.10	118	84.10	170	128.90	64	174.90	3503
55.10	578	85.90	67	129.90	231	175.90	42848
56.10	1044	87.00	2174	130.90	53	176.90	2989
57.00	1593	87.90	2246	131.80	62	177.80	103
58.00	129	88.70	89	134.80	226	190.20	56
60.00	639	91.00	384	137.00	152	206.50	57
61.10	2964	92.00	1256	138.80	68	241.00	93
62.10	3229	93.00	2894	140.00	90	286.00	58
63.00	2372	94.00	6458	140.80	441	287.10	52
64.00	346	95.00	57032	141.80	63	362.30	50
65.30	57	96.00	3689	142.90	734		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47473.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2018 14:51:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0074647-001				
Operator ID:		Instrument ID:	CVOAMS13		
Method:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	01-Jul-2018 05:36:12	Calib Date:	20-Apr-2018 07:16:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK012				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 139 BFB	95	2.162	2.162	0.000	89	40756	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

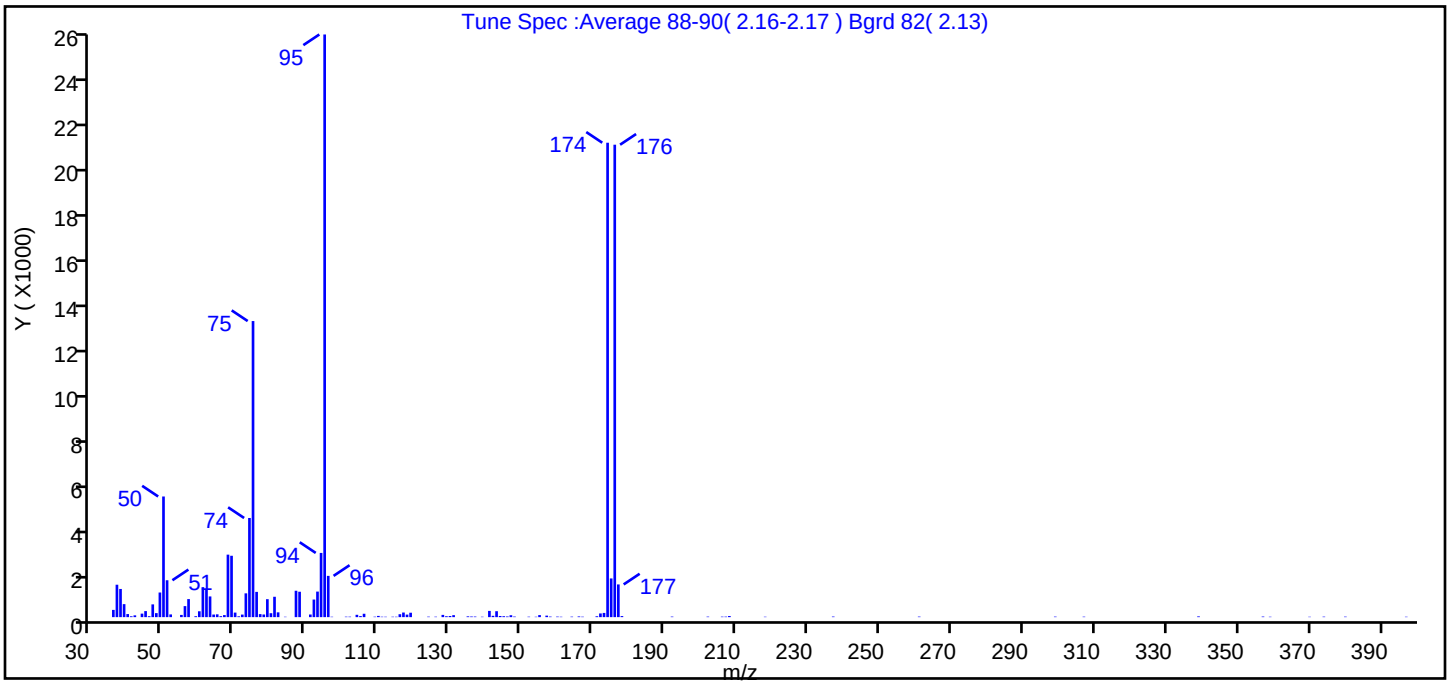
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47473.D
Injection Date: 30-Jun-2018 14:51:30 Instrument ID: CVOAMS13
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 139 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.7
75	30 to 60% of m/z 95	50.8
96	5 to 9% of m/z 95	7.1
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	81.4
175	5 to 9% of m/z 174	6.6 (8.2)
176	Greater than 95% but less than 101% of m/z 174	81.1 (99.6)
177	5 to 9% of m/z 176	5.6 (6.9)

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47473.D\8260W_13.rslt\spectra.d
Injection Date: 30-Jun-2018 14:51:30
Spectrum: Tune Spec :Average 88-90(2.16-2.17) Bgrd 82(2.13)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 121

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	322	71.00	37	114.00	19	164.00	22
37.00	1440	72.00	114	115.00	18	166.00	31
38.00	1252	73.00	1057	116.00	130	167.00	20
39.00	578	74.00	4404	117.00	205	171.00	39
40.00	137	75.00	13151	118.00	113	172.00	164
41.00	38	76.00	1122	119.00	196	173.00	187
42.00	79	77.00	135	124.00	22	174.00	21072
44.00	156	78.00	118	126.00	20	175.00	1719
45.00	268	79.00	798	128.00	100	176.00	20984
46.00	41	80.00	175	129.00	40	177.00	1453
47.00	567	81.00	905	130.00	50	178.00	47
48.00	179	82.00	213	131.00	88	192.00	24
49.00	1094	84.00	17	135.00	35	202.00	23
50.00	5359	87.00	1172	136.00	28	206.00	22
51.00	1639	88.00	1128	137.00	26	207.00	23
52.00	121	91.00	117	139.00	18	208.00	49
55.00	99	92.00	782	141.00	277	218.00	18
56.00	490	93.00	1135	142.00	59	237.00	26
57.00	802	94.00	2852	143.00	264	261.00	24
59.00	41	95.00	25880	144.00	51	299.00	23
60.00	261	96.00	1833	145.00	41	307.00	21
61.00	1332	97.00	18	146.00	29	339.00	33
62.00	1258	101.00	21	147.00	85	357.00	26
63.00	920	102.00	21	148.00	25	359.00	18
64.00	116	104.00	104	152.00	20	370.00	17
65.00	125	105.00	46	154.00	17	374.00	22
66.00	44	106.00	150	155.00	91	380.00	22
67.00	92	109.00	20	157.00	67	397.00	18
68.00	2776	110.00	55	158.00	25		
69.00	2726	111.00	19	160.00	24		
70.00	202	112.00	18	161.00	18		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50565.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	24-May-2018 00:37:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0072566-001				
Operator ID:		Instrument ID:	CVOAMS4		
Method:	\\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\8260S_4.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	24-May-2018 15:17:25	Calib Date:	24-May-2018 06:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK005				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	2.482	2.482	0.000	95	61068	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

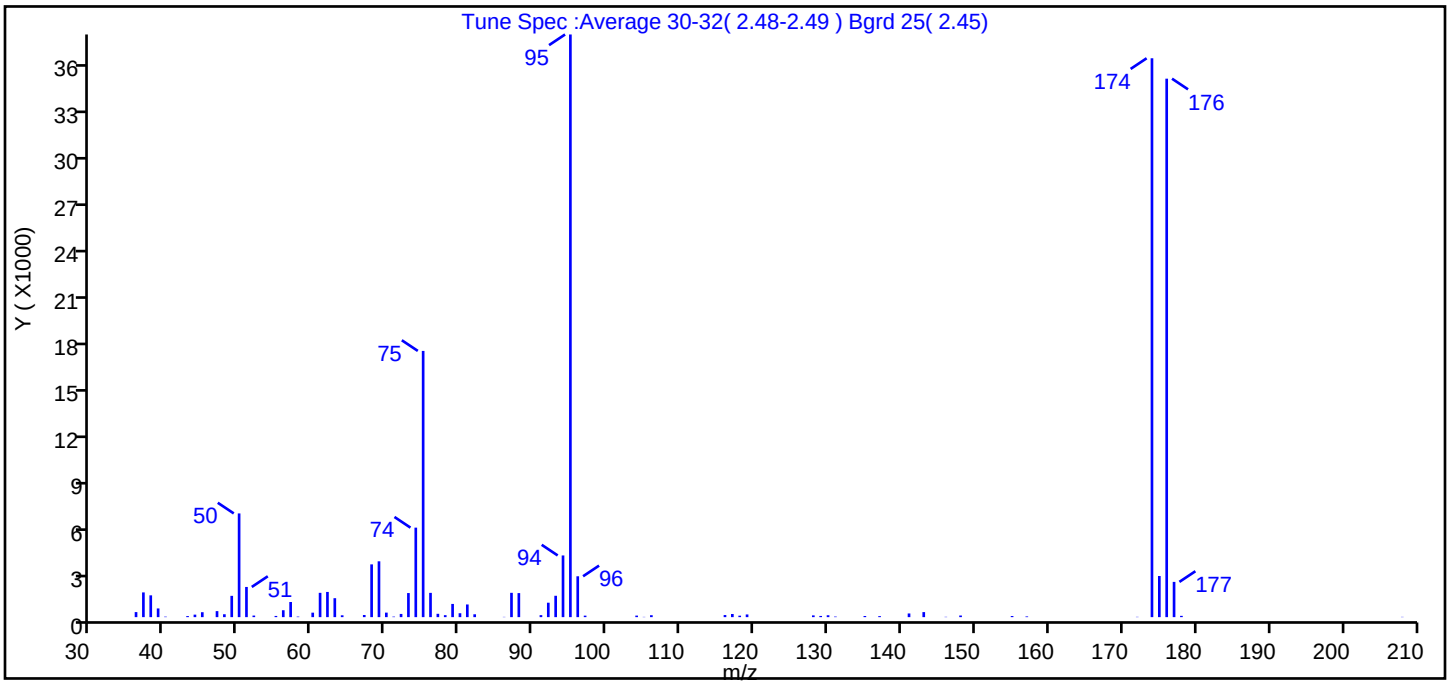
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50565.D
Injection Date: 24-May-2018 00:37:30 Instrument ID: CVOAMS4
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.8
75	30 to 60% of m/z 95	45.7
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	95.9
175	5 to 9% of m/z 174	7.1 (7.4)
176	Greater than 95% but less than 101% of m/z 174	92.4 (96.3)
177	5 to 9% of m/z 176	6.0 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50565.D\8260S_4.rslt\spectra.d
Injection Date: 24-May-2018 00:37:30
Spectrum: Tune Spec :Average 30-32(2.48-2.49) Bgrd 25(2.45)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 75

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	323	61.00	1553	82.00	183	129.00	77
37.00	1580	62.00	1610	86.00	16	130.00	121
38.00	1393	63.00	1211	87.00	1554	131.00	36
39.00	556	64.00	118	88.00	1536	135.00	73
40.00	31	67.00	137	91.00	128	137.00	65
43.00	68	68.00	3371	92.00	922	141.00	235
44.00	160	69.00	3567	93.00	1365	143.00	322
45.00	315	70.00	289	94.00	3941	146.00	20
47.00	385	71.00	34	95.00	37224	148.00	104
48.00	185	72.00	205	96.00	2611	155.00	71
49.00	1361	73.00	1539	97.00	96	157.00	46
50.00	6626	74.00	5718	104.00	99	172.00	19
51.00	1929	75.00	17008	105.00	16	174.00	35704
52.00	101	76.00	1551	106.00	123	175.00	2628
55.00	77	77.00	214	116.00	134	176.00	34400
56.00	442	78.00	126	117.00	201	177.00	2252
57.00	967	79.00	844	118.00	94	178.00	83
58.00	35	80.00	250	119.00	172	208.00	17
60.00	287	81.00	810	128.00	112		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52026.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	30-Jun-2018 17:25:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0074660-001				
Operator ID:		Instrument ID:	CVOAMS4		
Method:	\\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	01-Jul-2018 05:56:28	Calib Date:	24-May-2018 06:58:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK022				

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	2.470	2.470	0.000	93	56247	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

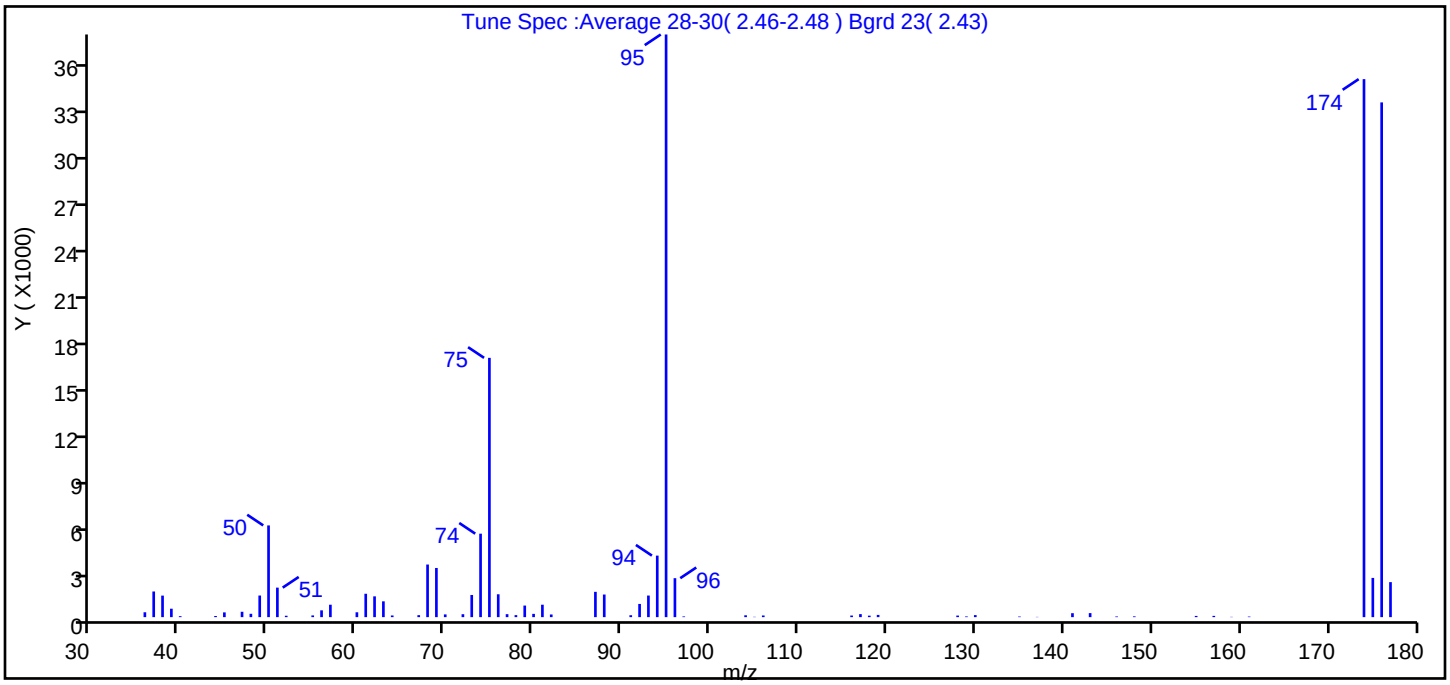
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52026.D
Injection Date: 30-Jun-2018 17:25:30 Instrument ID: CVOAMS4
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.7
75	30 to 60% of m/z 95	44.5
96	5 to 9% of m/z 95	6.7
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	92.3
175	5 to 9% of m/z 174	6.7 (7.3)
176	Greater than 95% but less than 101% of m/z 174	88.3 (95.7)
177	5 to 9% of m/z 176	6.0 (6.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52026.D\8260S_4.rslt\spectra.d
Injection Date: 30-Jun-2018 17:25:30
Spectrum: Tune Spec :Average 28-30(2.46-2.48) Bgrd 23(2.43)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 69

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	316	62.00	1345	87.00	1637	130.00	131
37.00	1659	63.00	1023	88.00	1463	135.00	39
38.00	1393	64.00	108	91.00	124	137.00	16
39.00	546	67.00	128	92.00	854	141.00	255
40.00	61	68.00	3403	93.00	1397	143.00	261
44.00	74	69.00	3180	94.00	3979	146.00	43
45.00	308	70.00	177	95.00	37680	148.00	49
47.00	348	72.00	190	96.00	2520	155.00	79
48.00	217	73.00	1433	97.00	45	157.00	82
49.00	1398	74.00	5398	104.00	119	159.00	18
50.00	5932	75.00	16768	105.00	20	161.00	37
51.00	1909	76.00	1479	106.00	107	174.00	34792
52.00	90	77.00	193	116.00	104	175.00	2537
55.00	111	78.00	130	117.00	195	176.00	33288
56.00	440	79.00	749	118.00	96	177.00	2264
57.00	804	80.00	212	119.00	144		
60.00	315	81.00	804	128.00	101		
61.00	1512	82.00	173	129.00	46		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-532483/9

Matrix: Water | Lab File ID: P47481.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 18:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-532483/9

Matrix: Water | Lab File ID: P47481.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 18:13

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	85		74-132
460-00-4	4-Bromofluorobenzene	86		77-124
2037-26-5	Toluene-d8 (Surr)	92		80-120
1868-53-7	Dibromofluoromethane (Surr)	87		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47481.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2018 18:13:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info:
Misc. Info.: 460-0074647-009
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 07:56:42 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK012

First Level Reviewer: moroneyc Date: 01-Jul-2018 10:32:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
24 Acetone	43	1.909	1.902	0.007	88	2090		1.89	
* 29 TBA-d9 (IS)	65	2.059	2.060	-0.001	0	268346	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.110	2.103	0.007	97	2735		8.18	
$ 47 Dibromofluoromethane (Surr	113	3.026	3.027	-0.001	95	127012	50.0	43.6	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	379324	250.0	250.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	168530	50.0	42.3	
* 62 Fluorobenzene	96	3.664	3.671	-0.007	98	549543	50.0	50.0	
* 72 1,4-Dioxane-d8	96	4.559	4.552	0.007	0	29608	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	509360	50.0	46.2	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	91	402627	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.857	8.850	0.007	92	135042	50.0	42.9	
* 119 1,4-Dichlorobenzene-d4	152	10.619	10.612	0.007	97	205617	50.0	50.0	

Reagents:

8260ISNEW_00123 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

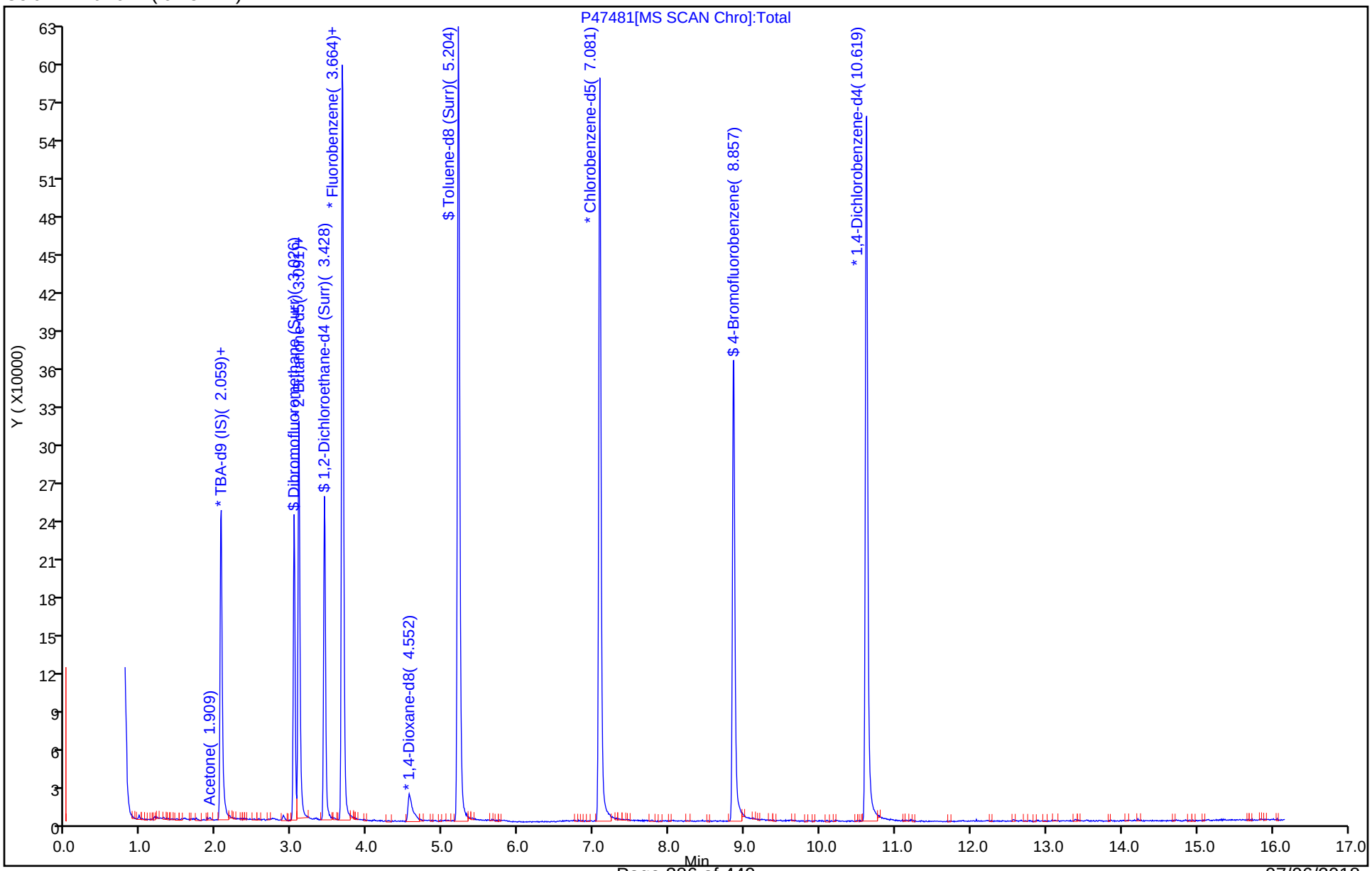
Report Date: 01-Jul-2018 10:32:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47481.D

Injection Date:	30-Jun-2018 18:13:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



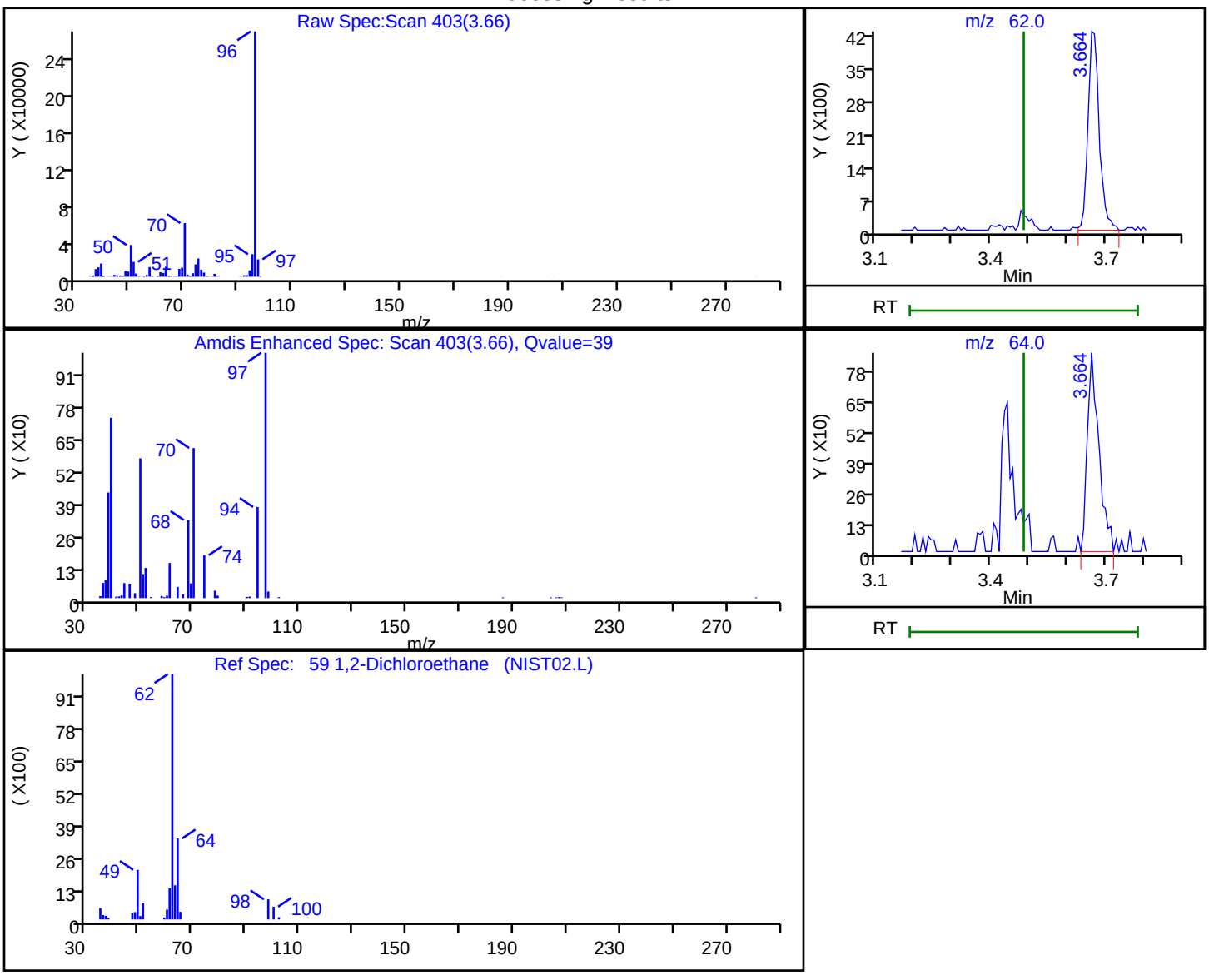
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47481.D
Injection Date: 30-Jun-2018 18:13:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
3.66	62.00	8797	1.693590
3.66	64.00	1817	

Reviewer: moroneyc, 01-Jul-2018 07:45:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

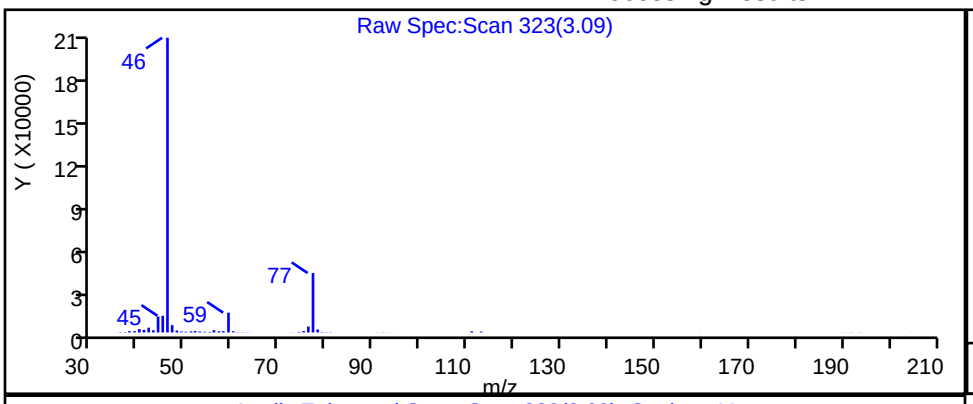
User Disabled Compound Report

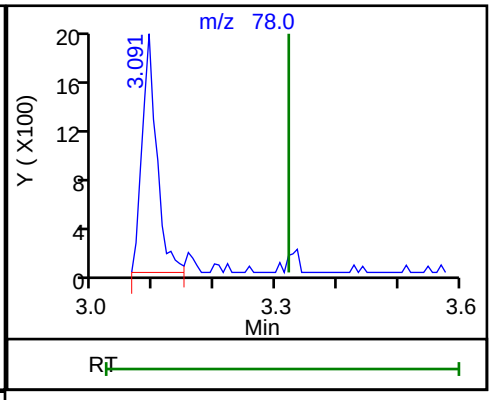
TestAmerica Edison

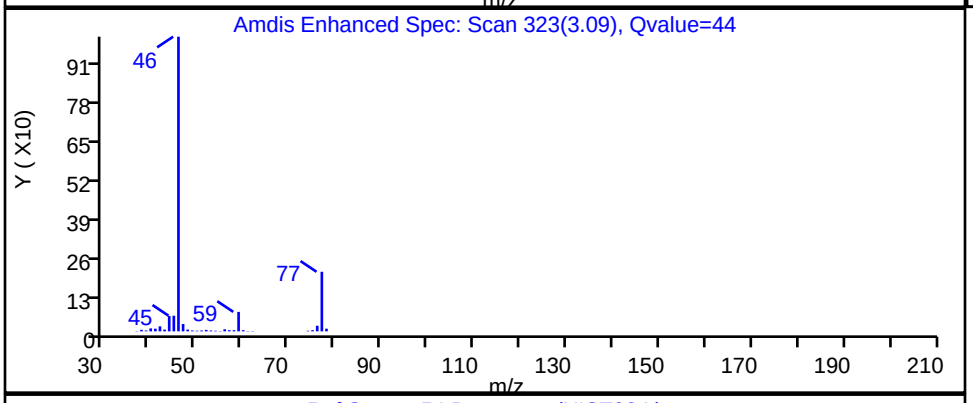
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47481.D
Injection Date: 30-Jun-2018 18:13:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

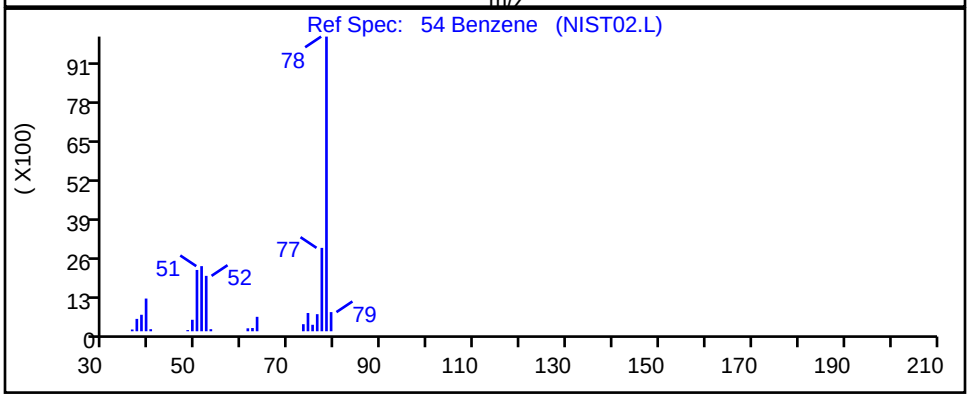
54 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
3.09	78.00	3321	0.260040

Reviewer: moroneyc, 01-Jul-2018 07:45:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

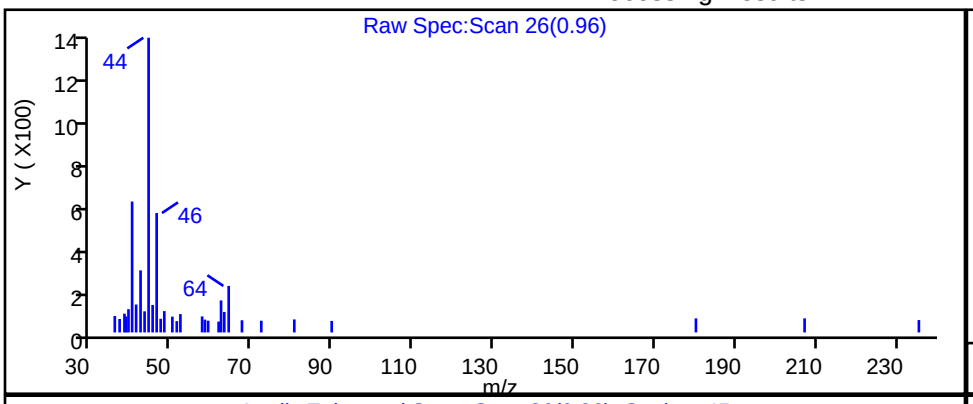
User Disabled Compound Report

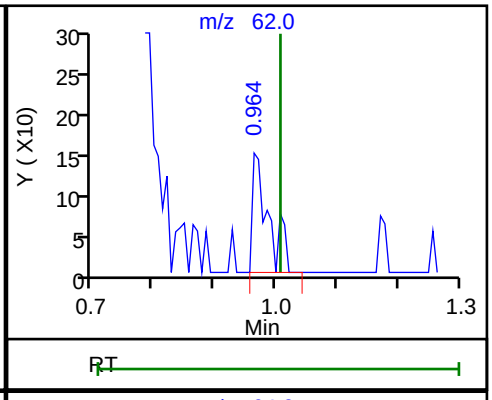
TestAmerica Edison

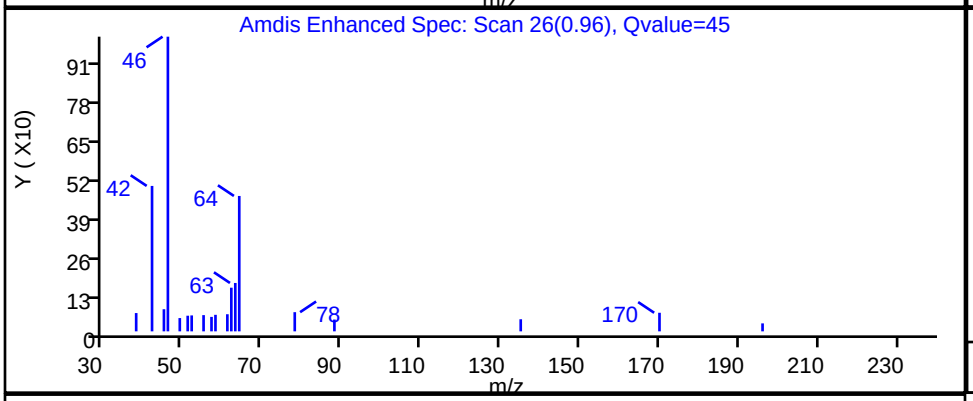
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47481.D
Injection Date: 30-Jun-2018 18:13:30 Instrument ID: CVOAMS13
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

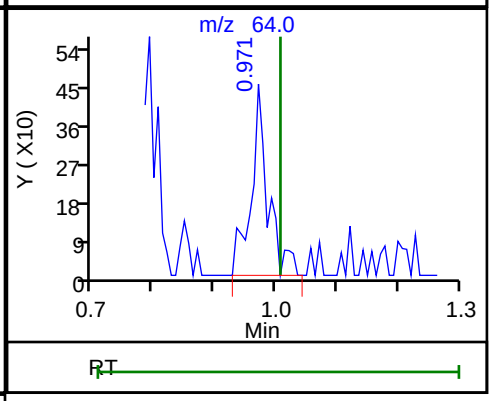
5 Vinyl chloride, CAS: 75-01-4

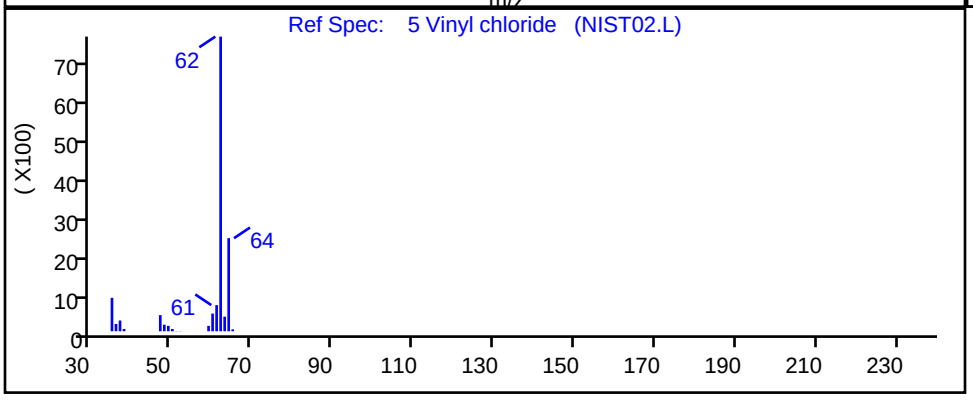
Processing Results











RT	Mass	Response	Amount
0.96	62.00	272	0.061777
0.97	64.00	874	

Reviewer: moroneyc, 01-Jul-2018 07:45:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-532498/13

Matrix: Solid | Lab File ID: D52038.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	ND		5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-532498/13

Matrix: Solid | Lab File ID: D52038.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	ND		1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-135
460-00-4	4-Bromofluorobenzene	89		67-126
2037-26-5	Toluene-d8 (Surr)	105		73-121
1868-53-7	Dibromofluoromethane (Surr)	102		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52038.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 30-Jun-2018 22:07:30 ALS Bottle#: 12 Worklist Smp#: 13
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0074660-013
Operator ID: Instrument ID: CVOAMS4

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 00:33:43 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: delpolitov Date: 06-Jul-2018 00:33:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	3.569	3.563	0.006	49	370347	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.655	3.649	0.006	94	3478		8.62	
* 38 2-Butanone-d5	46	4.862	4.856	0.006	0	246824	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	5.447	5.441	0.006	98	167115	50.0	50.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.874	5.874	0.000	97	134519	50.0	47.2	
* 61 Fluorobenzene	96	6.215	6.209	0.006	100	553379	50.0	50.0	
* 67 1,4-Dioxane-d8	96	7.063	7.057	0.006	0	27895	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	512738	50.0	52.3	
* 89 Chlorobenzene-d5	117	9.337	9.337	0.000	83	369567	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	174062	50.0	44.3	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	93	225090	50.0	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00175 Amount Added: 1.00 Units: uL Run Reagent

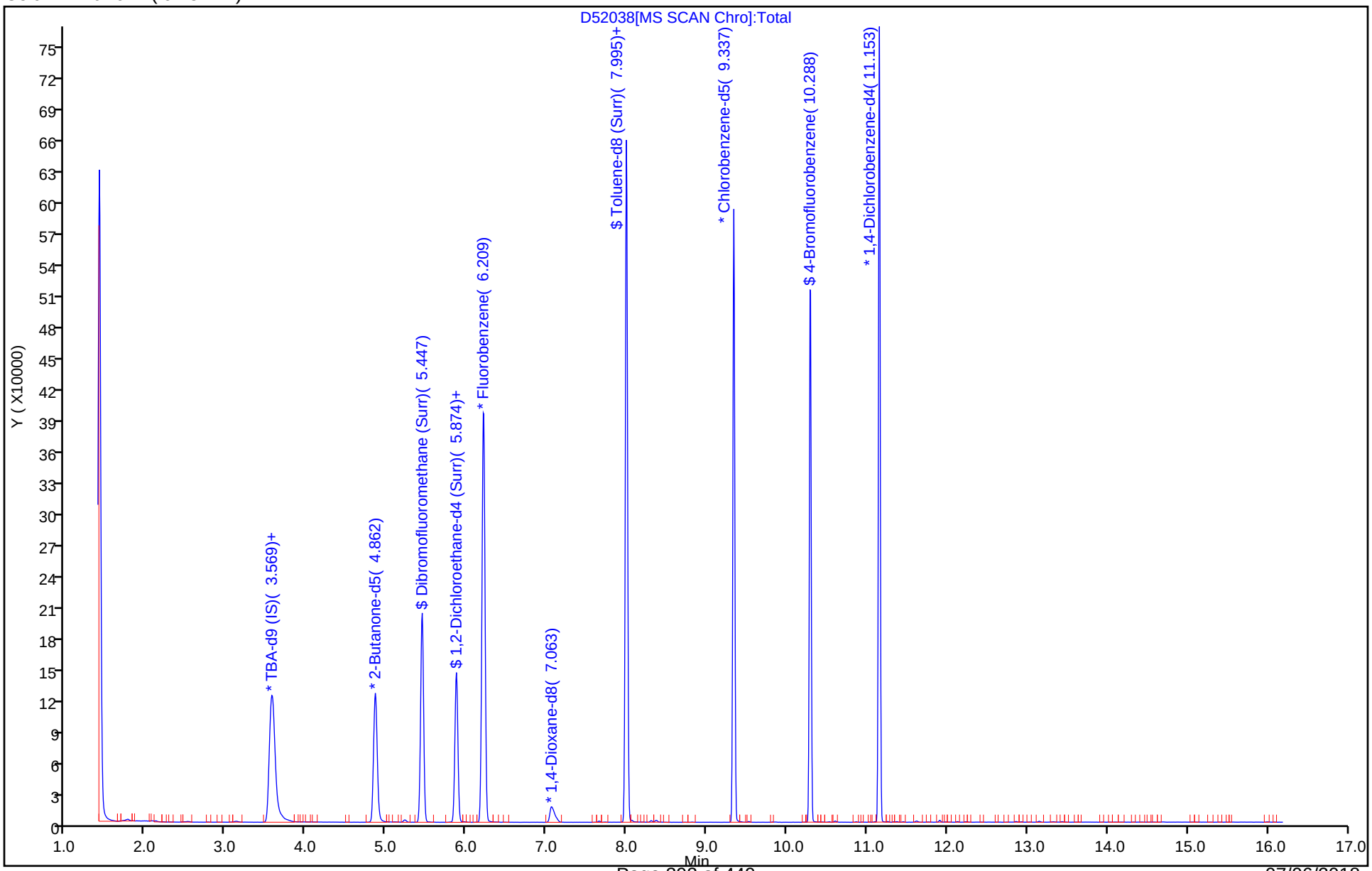
Report Date: 06-Jul-2018 00:33:44 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52038.D

Injection Date:	30-Jun-2018 22:07:30	Instrument ID:	CVOAMS4	Operator ID:	
Lims ID:	MB			Worklist Smp#:	13
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	12
Method:	8260S_4	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-532483/5

Matrix: Water | Lab File ID: P47477.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	15.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	17.6		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.4		1.0	0.43
75-34-3	1,1-Dichloroethane	17.2		1.0	0.26
75-35-4	1,1-Dichloroethene	16.2		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	21.1		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	17.5		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.1		1.0	0.43
107-06-2	1,2-Dichloroethane	16.1		1.0	0.43
78-87-5	1,2-Dichloropropane	17.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.1		1.0	0.34
106-46-7	1,4-Dichlorobenzene	18.3		1.0	0.76
78-93-3	2-Butanone (MEK)	89.5		5.0	1.9
591-78-6	2-Hexanone	93.3		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	94.5		5.0	2.7
67-64-1	Acetone	86.5		5.0	5.0
71-43-2	Benzene	18.9		1.0	0.43
75-25-2	Bromoform	16.4		1.0	0.54
74-83-9	Bromomethane	9.45		1.0	1.0
75-15-0	Carbon disulfide	15.0		1.0	0.16
56-23-5	Carbon tetrachloride	15.7		1.0	0.21
108-90-7	Chlorobenzene	19.7		1.0	0.38
124-48-1	Dibromochloromethane	17.6		1.0	0.28
75-00-3	Chloroethane	15.9		1.0	0.32
67-66-3	Chloroform	16.5		1.0	0.33
74-87-3	Chloromethane	14.0		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	15.7		1.0	0.22
110-82-7	Cyclohexane	16.1		1.0	0.32
75-27-4	Bromodichloromethane	15.8		1.0	0.34
75-71-8	Dichlorodifluoromethane	17.7		1.0	0.12
100-41-4	Ethylbenzene	19.2		1.0	0.30
106-93-4	1,2-Dibromoethane	18.7		1.0	0.50
98-82-8	Isopropylbenzene	18.6		1.0	0.34
79-20-9	Methyl acetate	33.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-532483/5

Matrix: Water | Lab File ID: P47477.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 16:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	16.6		1.0	0.47
108-87-2	Methylcyclohexane	16.3		1.0	0.26
75-09-2	Methylene Chloride	16.5		1.0	0.32
127-18-4	Tetrachloroethene	20.3		1.0	0.25
108-88-3	Toluene	18.3		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	16.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	17.4		1.0	0.49
79-01-6	Trichloroethene	17.5		1.0	0.31
75-69-4	Trichlorofluoromethane	18.5		1.0	0.14
75-01-4	Vinyl chloride	17.6		1.0	0.17
1330-20-7	Xylenes, Total	37.5		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	17.5		1.0	0.46
100-42-5	Styrene	18.3		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	80		74-132
460-00-4	4-Bromofluorobenzene	96		77-124
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	82		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47477.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2018 16:32:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LL CCV
Misc. Info.: 460-0074647-005
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:14:13 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: xuyvo Date: 01-Jul-2018 14:14:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	91	15439	20.0	9.85	
2 Dichlorodifluoromethane	85	0.871	0.871	0.000	99	83655	20.0	17.7	
4 Chloromethane	50	0.985	0.985	0.000	96	63548	20.0	14.0	a
5 Vinyl chloride	62	1.007	1.007	0.000	98	89538	20.0	17.6	
3 Butadiene	54	1.014	1.014	0.000	98	82795	20.0	18.4	
6 Bromomethane	94	1.164	1.164	0.000	98	18306	20.0	9.45	
7 Chloroethane	64	1.229	1.229	0.000	100	46278	20.0	15.9	
9 Pentane	72	1.293	1.293	0.000	97	21122	40.0	44.9	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	60	92040	20.0	18.5	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	99	123442	20.0	18.6	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	83597	20.0	16.9	
12 Ethyl ether	59	1.458	1.458	0.000	90	57211	20.0	17.2	
13 Ethanol	46	1.537	1.537	0.000	99	17263	800.0	978.4	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	86	78039	20.0	17.4	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	95	49117	20.0	16.2	
16 Carbon disulfide	76	1.580	1.580	0.000	100	179249	20.0	15.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	96	54320	20.0	17.4	
18 Iodomethane	142	1.637	1.637	0.000	99	27498	20.0	7.28	
19 Cyclopentene	67	1.723	1.723	0.000	97	150680	20.0	17.5	
20 Acrolein	56	1.737	1.737	0.000	96	21788	40.0	71.9	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	33839	20.0	15.8	
22 Isopropyl alcohol	45	1.838	1.838	0.000	96	46642	200.0	198.1	
23 Methylene Chloride	84	1.881	1.881	0.000	99	64334	20.0	16.5	
24 Acetone	43	1.902	1.902	0.000	86	99588	100.0	86.5	
25 trans-1,2-Dichloroethene	96	1.974	1.974	0.000	99	57550	20.0	16.0	
26 Methyl acetate	43	1.981	1.981	0.000	100	105381	40.0	33.1	
27 Hexane	86	2.024	2.024	0.000	92	15084	20.0	15.7	
28 Methyl tert-butyl ether	73	2.031	2.031	0.000	91	189770	20.0	16.6	
* 29 TBA-d9 (IS)	65	2.060	2.060	0.000	0	272644	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.103	2.103	0.000	99	66433	200.0	195.5	
31 Acetonitrile	41	2.174	2.174	0.000	100	103122	200.0	250.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.267	2.267	0.000	97	248858	20.0	16.8	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	93	54048	20.0	16.5	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	121349	20.0	17.2	
35 Acrylonitrile	53	2.375	2.375	0.000	93	296805	200.0	176.4	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	88	210014	20.0	15.9	
37 Vinyl acetate	43	2.511	2.511	0.000	100	326629	40.0	32.6	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	93	65111	20.0	15.7	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	96	94529	20.0	15.7	
40 Cyclohexane	56	2.826	2.826	0.000	95	118081	20.0	16.1	
41 Chlorobromomethane	128	2.833	2.833	0.000	98	32450	20.0	17.7	
42 Chloroform	83	2.890	2.890	0.000	98	112252	20.0	16.5	
43 Carbon tetrachloride	117	2.984	2.984	0.000	98	74758	20.0	15.7	
44 Ethyl acetate	70	2.998	2.998	0.000	98	15254	40.0	31.8	
45 Methyl acrylate	55	2.998	2.998	0.000	95	63201	20.0	16.0	
46 Tetrahydrofuran	42	3.005	3.005	0.000	93	61216	40.0	37.1	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	97	133547	50.0	41.2	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	97	91451	20.0	15.6	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	394173	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	95	94714	20.0	16.3	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	98	43153	100.0	89.5	
52 Isooctane	57	3.220	3.220	0.000	98	219985	20.0	15.3	
53 n-Heptane	57	3.313	3.313	0.000	94	56397	20.0	14.3	
54 Benzene	78	3.320	3.320	0.000	96	278696	20.0	18.9	
55 Propionitrile	54	3.342	3.342	0.000	97	109800	200.0	228.3	
56 Methacrylonitrile	67	3.363	3.363	0.000	94	309809	200.0	180.6	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	177615	50.0	40.0	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	98	192924	20.0	15.8	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	97209	20.0	16.1	
60 Isobutyl alcohol	43	3.557	3.557	0.000	98	68435	500.0	462.5	
61 t-Amyl alcohol	59	3.628	3.628	0.000	92	40597	200.0	148.7	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	612749	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	138894	20.0	15.8	
64 Methylcyclohexane	83	3.793	3.793	0.000	94	114391	20.0	16.3	
65 Trichloroethene	130	3.815	3.815	0.000	98	66391	20.0	17.5	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	91	158006	20.0	14.2	
67 Dibromomethane	93	4.187	4.187	0.000	98	42136	20.0	17.0	
68 n-Butanol	56	4.194	4.194	0.000	95	40826	500.0	460.8	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	89	75687	20.0	17.6	
70 Ethyl acrylate	55	4.359	4.359	0.000	92	86875	20.0	15.9	
71 Dichlorobromomethane	83	4.359	4.359	0.000	98	82470	20.0	15.8	
* 72 1,4-Dioxane-d8	96	4.559	4.559	0.000	0	32136	1000.0	1000.0	
73 Methyl methacrylate	100	4.559	4.559	0.000	94	34231	40.0	32.7	
74 1,4-Dioxane	88	4.581	4.581	0.000	98	17165	400.0	421.7	
75 n-Propyl acetate	43	4.717	4.717	0.000	99	103935	20.0	16.5	
76 2-Chloroethyl vinyl ether	63	4.975	4.975	0.000	96	41238	20.0	14.3	
77 cis-1,3-Dichloropropene	75	5.011	5.011	0.000	96	104142	20.0	17.5	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	99	567834	50.0	44.5	
79 Toluene	91	5.261	5.261	0.000	93	295541	20.0	18.3	
80 Epichlorohydrin	57	5.290	5.290	0.000	100	140141	400.0	362.4	
81 2-Nitropropane	41	5.519	5.519	0.000	99	32675	40.0	26.6	
82 Tetrachloroethene	166	5.691	5.691	0.000	97	69017	20.0	20.3	
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	98	375382	100.0	94.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	97	95535	20.0	17.4	
85 1,1,2-Trichloroethane	83	5.942	5.942	0.000	95	53494	20.0	19.4	
86 Ethyl methacrylate	69	6.021	6.021	0.000	92	83152	20.0	15.6	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	58786	20.0	17.6	
88 1,3-Dichloropropane	76	6.250	6.250	0.000	96	111382	20.0	19.6	
89 Ethylene Dibromide	107	6.386	6.386	0.000	97	59047	20.0	18.7	
90 n-Butyl acetate	43	6.730	6.730	0.000	99	97696	20.0	14.9	
91 2-Hexanone	43	6.794	6.794	0.000	98	260484	100.0	93.3	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	89	465987	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	97	191809	20.0	19.7	
94 Ethylbenzene	106	7.181	7.181	0.000	99	103175	20.0	19.2	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	94	59166	20.0	18.5	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	123249	20.0	19.0	
97 o-Xylene	106	7.991	7.991	0.000	94	117896	20.0	18.6	
98 Bromoform	173	8.055	8.055	0.000	94	34475	20.0	16.4	
99 Styrene	104	8.077	8.077	0.000	94	195132	20.0	18.3	
100 n-Butyl acrylate	73	8.399	8.399	0.000	95	40971	20.0	14.8	
101 Isopropylbenzene	105	8.478	8.478	0.000	96	317890	20.0	18.6	
102 Amyl acetate (mixed isomer	43	8.814	8.814	0.000	90	119000	20.0	14.5	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	89	174746	50.0	48.0	
104 Bromobenzene	156	8.958	8.958	0.000	97	80739	20.0	18.8	
105 N-Propylbenzene	91	9.108	9.108	0.000	99	388203	20.0	17.5	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.258	0.000	98	81914	20.0	17.6	
107 2-Chlorotoluene	91	9.287	9.287	0.000	97	263965	20.0	17.5	
108 4-Ethyltoluene	105	9.301	9.301	0.000	98	324903	20.0	18.0	
109 1,2,3-Trichloropropane	110	9.395	9.395	0.000	98	25160	20.0	19.0	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	93	268063	20.0	17.4	
111 trans-1,4-Dichloro-2-buten	53	9.516	9.516	0.000	83	20670	20.0	12.6	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	247228	20.0	17.8	
113 tert-Butylbenzene	119	9.925	9.925	0.000	95	225599	20.0	17.8	
115 1,2,4-Trimethylbenzene	105	10.054	10.054	0.000	96	276853	20.0	18.1	
114 Butyl Methacrylate	87	10.054	10.054	0.000	81	80717	20.0	14.9	
116 sec-Butylbenzene	105	10.218	10.218	0.000	99	350077	20.0	17.8	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	95	155842	20.0	19.1	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	98	294977	20.0	18.0	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	95	263694	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.634	0.000	93	161610	20.0	18.3	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	293580	20.0	18.2	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	95	288679	20.0	18.5	
122 Benzyl chloride	126	11.092	11.092	0.000	96	21245	20.0	12.5	
123 p-Diethylbenzene	119	11.106	11.106	0.000	94	165534	20.0	19.0	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	287579	20.0	18.4	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	95	156310	20.0	20.1	
126 1,2,4,5-Tetramethylbenzene	119	12.195	12.195	0.000	98	262459	20.0	18.6	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	91	14720	20.0	17.5	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	97	122956	20.0	21.0	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	93	108618	20.0	21.1	
130 Hexachlorobutadiene	225	13.076	13.076	0.000	93	48322	20.0	19.1	
131 Naphthalene	128	13.356	13.356	0.000	99	222216	20.0	19.1	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	96	103584	20.0	22.2	
S 133 1,2-Dichloroethene, Total	100				0		40.0	31.6	
S 134 1,3-Dichloropropene, Total	100				0		40.0	34.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 135 Xylenes, Total	100				0		40.0	37.5	
S 137 Total BTEX	1				0		100.0	93.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00081	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00266	Amount Added:	20.00	Units: uL	
8260ISNEW_00123	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 01-Jul-2018 14:14:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47477.D

Injection Date: 30-Jun-2018 16:32:30 Instrument ID: CVOAMS13 Operator ID:

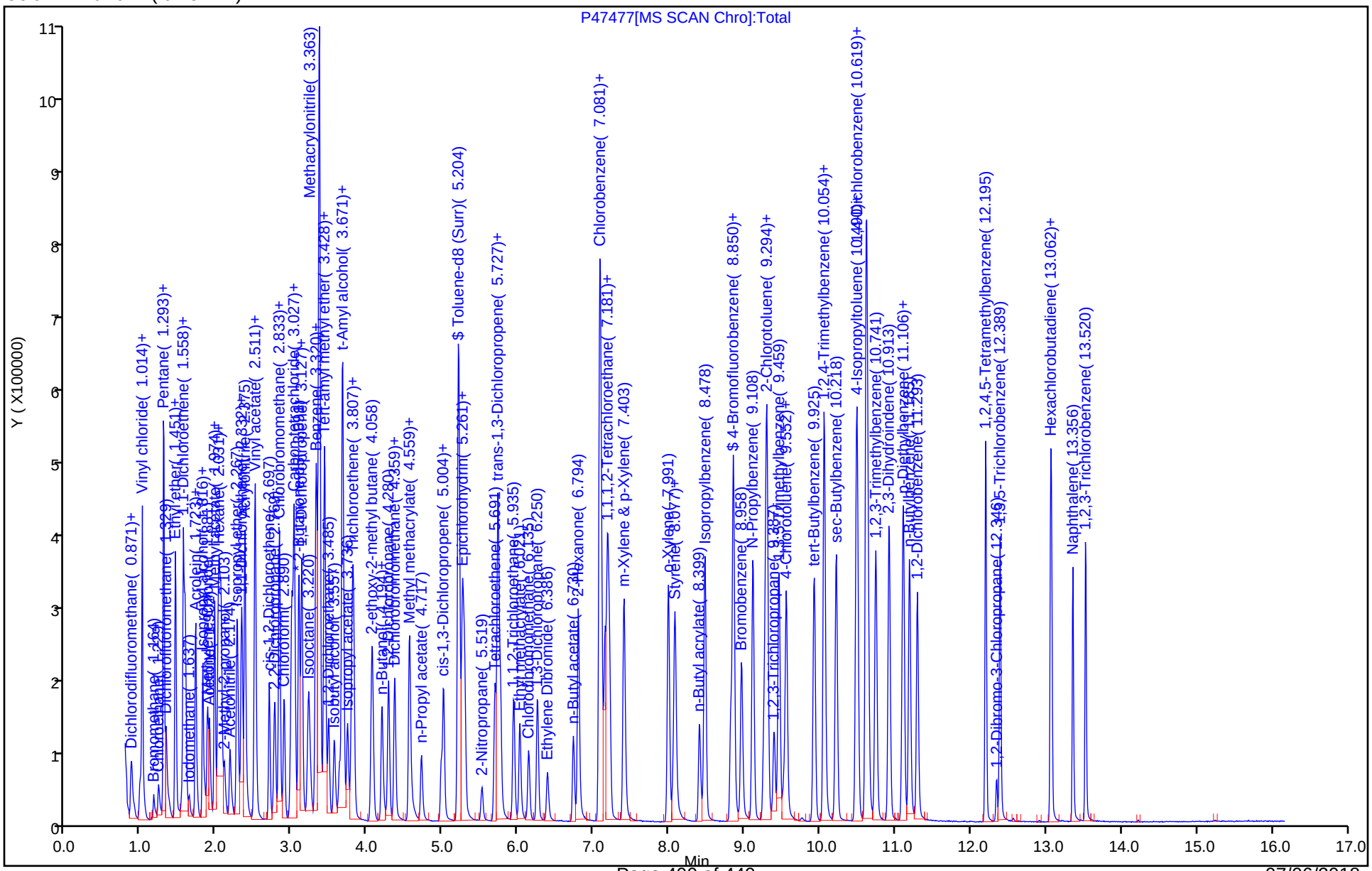
Lims ID: LCS Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

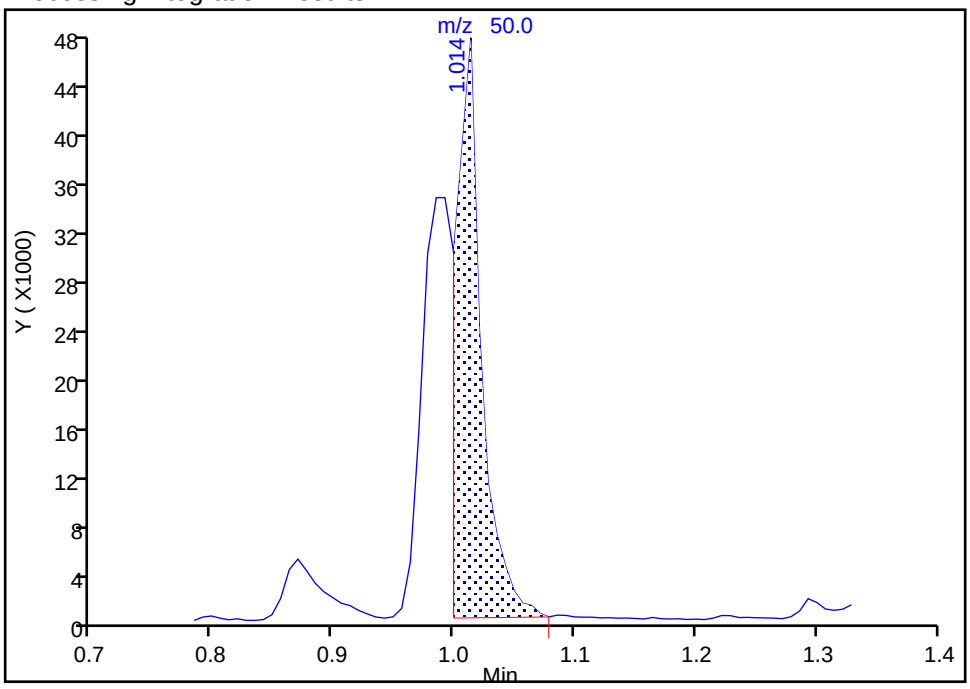
Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47477.D
Injection Date: 30-Jun-2018 16:32:30 Instrument ID: CVOAMS13
Lims ID: LCS
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_13 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Signal: 1

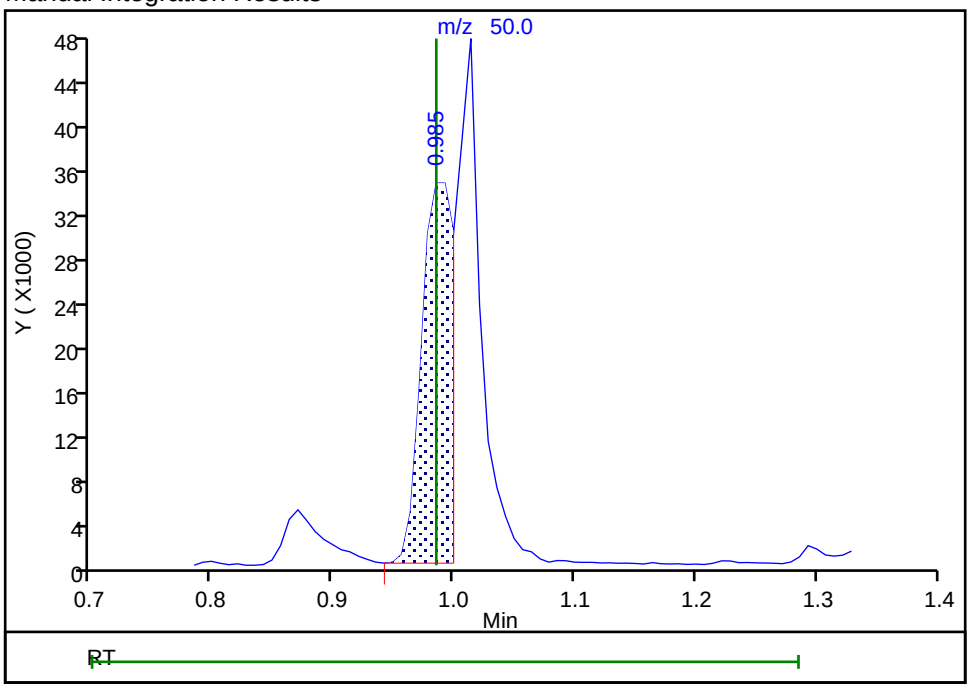
Processing Integration Results

RT: 1.01
Area: 70504
Amount: 16.119784
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 63548
Amount: 14.025654
Amount Units: ug/l



Reviewer: xuyvo, 01-Jul-2018 14:14:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-532498/3

Matrix: Solid | Lab File ID: D52028.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	19.5		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.8		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.3		1.0	0.18
75-34-3	1,1-Dichloroethane	19.3		1.0	0.21
75-35-4	1,1-Dichloroethene	21.9		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1.0	0.46
95-50-1	1,2-Dichlorobenzene	20.0		1.0	0.14
107-06-2	1,2-Dichloroethane	16.9		1.0	0.30
78-87-5	1,2-Dichloropropane	18.3		1.0	0.42
541-73-1	1,3-Dichlorobenzene	20.2		1.0	0.16
106-46-7	1,4-Dichlorobenzene	20.2		1.0	0.10
78-93-3	2-Butanone (MEK)	94.9		5.0	1.1
591-78-6	2-Hexanone	96.9		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	99.8		5.0	0.66
67-64-1	Acetone	99.2		5.0	3.8
71-43-2	Benzene	19.6		1.0	0.26
75-25-2	Bromoform	17.8		1.0	0.43
74-83-9	Bromomethane	23.6		1.0	0.47
75-15-0	Carbon disulfide	21.0		1.0	0.27
56-23-5	Carbon tetrachloride	19.7		1.0	0.18
108-90-7	Chlorobenzene	19.6		1.0	0.18
124-48-1	Dibromochloromethane	18.5		1.0	0.19
75-00-3	Chloroethane	23.1		1.0	0.52
67-66-3	Chloroform	18.6		1.0	0.32
74-87-3	Chloromethane	19.2		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	18.3		1.0	0.15
110-82-7	Cyclohexane	22.9		1.0	0.22
75-27-4	Bromodichloromethane	17.7		1.0	0.26
75-71-8	Dichlorodifluoromethane	22.5		1.0	0.34
100-41-4	Ethylbenzene	20.4		1.0	0.20
106-93-4	1,2-Dibromoethane	19.4		1.0	0.18
98-82-8	Isopropylbenzene	20.9		1.0	0.13
79-20-9	Methyl acetate	33.3		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-532498/3

Matrix: Solid | Lab File ID: D52028.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 17:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.1		1.0	0.13
108-87-2	Methylcyclohexane	22.2		1.0	0.16
75-09-2	Methylene Chloride	19.8		1.0	0.16
127-18-4	Tetrachloroethene	20.0		1.0	0.14
108-88-3	Toluene	19.5		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	20.3		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.27
79-01-6	Trichloroethene	18.6		1.0	0.14
75-69-4	Trichlorofluoromethane	22.3		1.0	0.41
75-01-4	Vinyl chloride	22.9		1.0	0.55
1330-20-7	Xylenes, Total	40.2		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	19.4		1.0	0.27
100-42-5	Styrene	19.7		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-135
460-00-4	4-Bromofluorobenzene	91		67-126
2037-26-5	Toluene-d8 (Surr)	103		73-121
1868-53-7	Dibromofluoromethane (Surr)	98		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52028.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 30-Jun-2018 17:59:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0074660-003
Operator ID: Instrument ID: CVOAMS4

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 00:32:02 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: tupayachia Date: 01-Jul-2018 03:29:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.539	1.539	0.000	89	52108	20.0	20.2	a
2 Dichlorodifluoromethane	85	1.576	1.576	0.000	99	101269	20.0	22.5	
3 Chloromethane	50	1.777	1.777	0.000	99	72419	20.0	19.2	
4 Vinyl chloride	62	1.881	1.881	0.000	98	75466	20.0	22.9	
5 Butadiene	54	1.887	1.887	0.000	97	60859	20.0	20.5	
6 Bromomethane	94	2.216	2.216	0.000	100	58550	20.0	23.6	
7 Chloroethane	64	2.289	2.289	0.000	100	41973	20.0	23.1	
8 Dichlorofluoromethane	67	2.521	2.521	0.000	99	110374	20.0	21.5	
10 Pentane	72	2.527	2.527	0.000	97	20363	40.0	42.3	
9 Trichlorofluoromethane	101	2.527	2.527	0.000	88	91439	20.0	22.3	
11 Ethyl ether	59	2.759	2.759	0.000	97	34958	20.0	18.1	
12 Ethanol	46	2.765	2.765	0.000	74	12854	800.0	842.6	
13 2-Methyl-1,3-butadiene	53	2.783	2.783	0.000	96	45466	20.0	21.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.856	2.856	0.000	86	58415	20.0	23.1	
16 Acrolein	56	2.972	2.972	0.000	97	100738	300.0	266.0	
15 1,1,2-Trichloro-1,2,2-trif	101	3.002	3.002	0.000	98	69957	20.0	24.8	
17 1,1-Dichloroethene	96	3.009	3.009	0.000	96	59501	20.0	21.9	
18 Acetone	43	3.118	3.118	0.000	87	63386	100.0	99.2	
19 Iodomethane	142	3.185	3.185	0.000	96	135331	20.0	21.0	
20 Carbon disulfide	76	3.222	3.222	0.000	99	200735	20.0	21.0	
21 Isopropyl alcohol	45	3.240	3.240	0.000	98	35708	200.0	170.2	
22 3-Chloro-1-propene	76	3.387	3.387	0.000	91	33398	20.0	20.6	
23 Cyclopentene	67	3.411	3.411	0.000	92	130122	20.0	21.8	
24 Methyl acetate	43	3.411	3.411	0.000	63	58688	40.0	33.3	
25 Acetonitrile	40	3.478	3.478	0.000	98	36013	200.0	248.3	
26 Methylene Chloride	84	3.551	3.551	0.000	88	63649	20.0	19.8	
* 27 TBA-d9 (IS)	65	3.563	3.563	0.000	43	348759	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.649	3.649	0.000	99	69829	200.0	183.9	
29 Methyl tert-butyl ether	73	3.746	3.746	0.000	96	143361	20.0	20.1	
30 trans-1,2-Dichloroethene	96	3.771	3.771	0.000	92	60246	20.0	20.3	
31 Acrylonitrile	53	3.868	3.868	0.000	93	157253	200.0	179.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.966	3.966	0.000	91	71618	20.0	20.6	
33 Isopropyl ether	45	4.234	4.234	0.000	96	142793	20.0	19.3	
34 1,1-Dichloroethane	63	4.258	4.258	0.000	99	88231	20.0	19.3	
35 Vinyl acetate	86	4.289	4.289	0.000	99	16864	40.0	34.8	
36 2-Chloro-1,3-butadiene	88	4.313	4.313	0.000	88	48561	20.0	19.8	
37 Tert-butyl ethyl ether	59	4.624	4.624	0.000	90	140500	20.0	19.7	
* 38 2-Butanone-d5	46	4.856	4.856	0.000	0	238792	250.0	250.0	
39 2,2-Dichloropropane	79	4.874	4.874	0.000	88	25103	20.0	19.6	
40 cis-1,2-Dichloroethene	96	4.898	4.898	0.000	97	62395	20.0	18.3	
41 2-Butanone (MEK)	72	4.929	4.929	0.000	99	24742	100.0	94.9	
42 Ethyl acetate	70	4.941	4.941	0.000	96	9335	40.0	42.8	
43 Methyl acrylate	55	5.002	5.002	0.000	100	33377	20.0	16.6	
44 Propionitrile	54	5.087	5.087	0.000	98	59297	200.0	169.4	
45 Tetrahydrofuran	72	5.167	5.167	0.000	88	11638	40.0	39.4	
46 Chlorobromomethane	128	5.179	5.179	0.000	78	31484	20.0	18.6	
47 Methacrylonitrile	67	5.215	5.215	0.000	90	167280	200.0	173.0	
48 Chloroform	83	5.252	5.252	0.000	99	85450	20.0	18.6	
49 Cyclohexane	84	5.398	5.398	0.000	88	88896	20.0	22.9	
50 1,1,1-Trichloroethane	97	5.423	5.423	0.000	99	78419	20.0	20.1	
$ 51 Dibromofluoromethane (Surr	113	5.441	5.441	0.000	98	151063	50.0	49.0	
52 Carbon tetrachloride	117	5.563	5.563	0.000	96	67866	20.0	19.7	
53 1,1-Dichloropropene	75	5.606	5.606	0.000	97	66404	20.0	18.5	
54 Isobutyl alcohol	43	5.801	5.801	0.000	92	82548	500.0	437.0	
55 Benzene	78	5.843	5.843	0.000	96	189453	20.0	19.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.874	5.874	0.000	97	123481	50.0	46.1	
57 Tert-amyl methyl ether	87	5.947	5.947	0.000	90	43155	20.0	19.1	
58 Isopropyl acetate	43	5.947	5.947	0.000	99	122962	20.0	17.7	
59 1,2-Dichloroethane	62	5.965	5.965	0.000	97	53266	20.0	16.9	
60 n-Heptane	57	6.057	6.057	0.000	89	39918	20.0	20.6	
* 61 Fluorobenzene	96	6.209	6.209	0.000	99	519482	50.0	50.0	
62 n-Butanol	56	6.624	6.624	0.000	86	32595	500.0	418.4	
63 Trichloroethene	95	6.648	6.648	0.000	95	51139	20.0	18.6	
64 Methylcyclohexane	83	6.794	6.794	0.000	93	103870	20.0	22.2	
65 Ethyl acrylate	73	6.819	6.819	0.000	97	3573	20.0	19.7	
66 1,2-Dichloropropane	63	6.990	6.990	0.000	94	44024	20.0	18.3	
* 67 1,4-Dioxane-d8	96	7.057	7.057	0.000	0	30665	1000.0	1000.0	
68 Methyl methacrylate	100	7.093	7.093	0.000	84	22694	40.0	37.4	
69 1,4-Dioxane	88	7.118	7.118	0.000	85	12231	400.0	372.3	
70 Dibromomethane	93	7.130	7.130	0.000	92	29222	20.0	17.7	
71 n-Propyl acetate	43	7.160	7.160	0.000	98	50148	20.0	17.0	
72 Dichlorobromomethane	83	7.294	7.294	0.000	99	55430	20.0	17.7	
73 2-Nitropropane	41	7.630	7.630	0.000	97	14547	40.0	27.8	
74 2-Chloroethyl vinyl ether	63	7.642	7.642	0.000	83	3354	20.0	4.21	
75 Epichlorohydrin	57	7.733	7.733	0.000	99	75654	400.0	397.5	
76 cis-1,3-Dichloropropene	75	7.782	7.782	0.000	89	63913	20.0	19.4	
77 4-Methyl-2-pentanone (MIBK	43	7.928	7.928	0.000	95	183002	100.0	99.8	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	501040	50.0	51.7	
79 Toluene	91	8.062	8.062	0.000	93	196540	20.0	19.5	
80 trans-1,3-Dichloropropene	75	8.355	8.355	0.000	98	52198	20.0	19.0	
81 Ethyl methacrylate	69	8.379	8.379	0.000	88	46167	20.0	17.7	
82 1,1,2-Trichloroethane	83	8.526	8.526	0.000	96	31196	20.0	19.3	
83 Tetrachloroethene	166	8.556	8.556	0.000	97	60600	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.684	8.684	0.000	89	57119	20.0	19.2	
85 2-Hexanone	43	8.727	8.727	0.000	95	114484	100.0	96.9	
86 n-Butyl acetate	73	8.806	8.806	0.000	98	9841	20.0	19.0	
87 Chlorodibromomethane	129	8.855	8.855	0.000	98	41974	20.0	18.5	
88 Ethylene Dibromide	107	8.965	8.965	0.000	99	37587	20.0	19.4	
* 89 Chlorobenzene-d5	117	9.337	9.337	0.000	84	365398	50.0	50.0	
90 Chlorobenzene	112	9.361	9.361	0.000	98	130152	20.0	19.6	
91 Ethylbenzene	106	9.422	9.422	0.000	97	72394	20.0	20.4	
92 1,1,1,2-Tetrachloroethane	131	9.440	9.440	0.000	96	49578	20.0	19.5	
93 m-Xylene & p-Xylene	106	9.526	9.526	0.000	100	87251	20.0	19.7	
94 n-Butyl acrylate	73	9.818	9.818	0.000	97	27059	20.0	19.7	
95 o-Xylene	106	9.849	9.849	0.000	95	88458	20.0	20.4	
96 Styrene	104	9.873	9.873	0.000	97	136884	20.0	19.7	
97 Amyl acetate (mixed isomer	43	9.989	9.989	0.000	91	59539	20.0	19.3	
98 Bromoform	173	10.050	10.050	0.000	98	27820	20.0	17.8	
99 Isopropylbenzene	105	10.129	10.129	0.000	95	241418	20.0	20.9	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	167599	50.0	45.4	
101 Bromobenzene	156	10.403	10.403	0.000	89	59089	20.0	19.4	
102 1,1,2,2-Tetrachloroethane	83	10.422	10.422	0.000	98	52051	20.0	19.5	
103 N-Propylbenzene	91	10.446	10.446	0.000	100	268794	20.0	20.8	
104 1,2,3-Trichloropropane	110	10.464	10.464	0.000	98	14899	20.0	19.0	
105 trans-1,4-Dichloro-2-buten	53	10.471	10.471	0.000	80	11702	20.0	19.1	
106 4-Ethyltoluene	105	10.532	10.532	0.000	98	233346	20.0	21.2	
107 2-Chlorotoluene	91	10.538	10.538	0.000	97	175017	20.0	20.1	
108 1,3,5-Trimethylbenzene	105	10.580	10.580	0.000	94	202877	20.0	21.3	
109 4-Chlorotoluene	91	10.623	10.623	0.000	95	147290	20.0	19.9	
110 Butyl Methacrylate	87	10.635	10.635	0.000	89	58173	20.0	20.3	
111 tert-Butylbenzene	119	10.818	10.818	0.000	96	170282	20.0	21.1	
112 1,2,4-Trimethylbenzene	105	10.861	10.861	0.000	96	202514	20.0	21.0	
113 sec-Butylbenzene	105	10.977	10.977	0.000	99	266916	20.0	21.7	
114 4-Isopropyltoluene	119	11.080	11.080	0.000	98	235563	20.0	21.7	
115 1,3-Dichlorobenzene	146	11.098	11.098	0.000	99	115851	20.0	20.2	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	92	211561	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.172	11.172	0.000	97	117111	20.0	20.2	
118 Benzyl chloride	126	11.275	11.275	0.000	99	19171	20.0	20.7	
119 2,3-Dihydroindene	117	11.330	11.330	0.000	95	227566	20.0	19.3	
120 p-Diethylbenzene	119	11.355	11.355	0.000	95	152266	20.0	23.1	
121 n-Butylbenzene	92	11.379	11.379	0.000	95	119555	20.0	21.9	
122 1,2-Dichlorobenzene	146	11.452	11.452	0.000	99	114690	20.0	20.0	
123 1,2,4,5-Tetramethylbenzene	119	11.982	11.982	0.000	98	212656	20.0	21.9	
124 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	90	13167	20.0	19.0	
125 1,3,5-Trichlorobenzene	180	12.232	12.232	0.000	97	103203	20.0	20.9	
126 1,2,4-Trichlorobenzene	180	12.860	12.860	0.000	94	93285	20.0	20.6	
127 Hexachlorobutadiene	225	12.970	12.970	0.000	97	44612	20.0	19.7	
128 Naphthalene	128	13.153	13.153	0.000	99	207746	20.0	20.3	
129 1,2,3-Trichlorobenzene	180	13.439	13.439	0.000	96	91895	20.0	20.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	38.6	
S 131 1,3-Dichloropropene, Total	100				0		40.0	38.4	
S 132 Xylenes, Total	100				0		40.0	40.2	
S 133 Total BTEX	1				0		100.0	99.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00266	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jul-2018 00:32:07 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52028.D

Injection Date: 30-Jun-2018 17:59:30 Instrument ID: CVOAMS4 Operator ID:

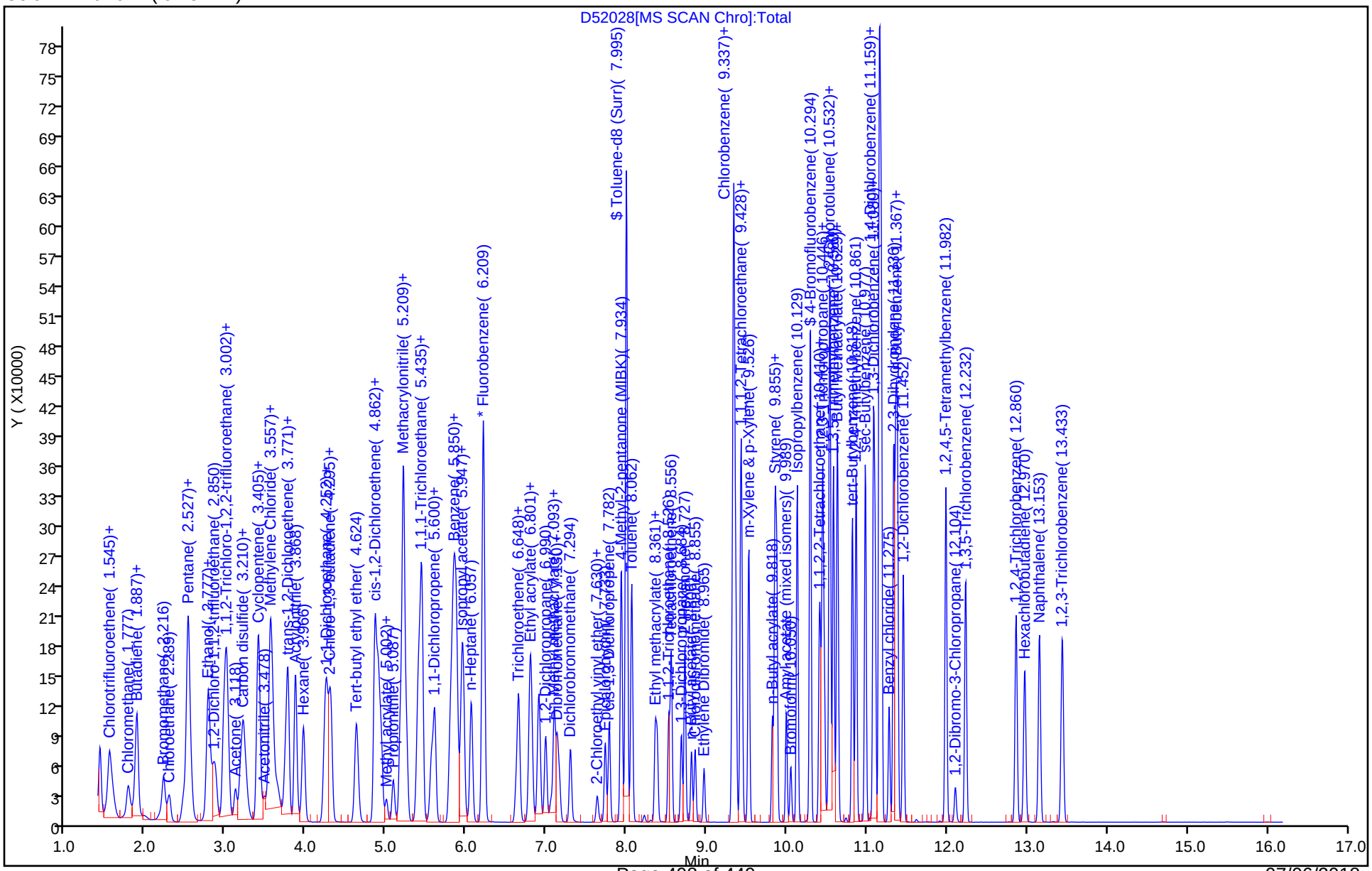
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-532498/4

Matrix: Solid | Lab File ID: D52029.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 18:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.3		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	19.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	24.3		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.3		1.0	0.18
75-34-3	1,1-Dichloroethane	19.4		1.0	0.21
75-35-4	1,1-Dichloroethene	21.2		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	19.0		1.0	0.46
95-50-1	1,2-Dichlorobenzene	20.1		1.0	0.14
107-06-2	1,2-Dichloroethane	16.9		1.0	0.30
78-87-5	1,2-Dichloropropane	18.3		1.0	0.42
541-73-1	1,3-Dichlorobenzene	20.2		1.0	0.16
106-46-7	1,4-Dichlorobenzene	20.4		1.0	0.10
78-93-3	2-Butanone (MEK)	97.1		5.0	1.1
591-78-6	2-Hexanone	96.4		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	103		5.0	0.66
67-64-1	Acetone	99.3		5.0	3.8
71-43-2	Benzene	20.0		1.0	0.26
75-25-2	Bromoform	17.7		1.0	0.43
74-83-9	Bromomethane	23.2		1.0	0.47
75-15-0	Carbon disulfide	20.3		1.0	0.27
56-23-5	Carbon tetrachloride	20.1		1.0	0.18
108-90-7	Chlorobenzene	19.5		1.0	0.18
124-48-1	Dibromochloromethane	18.6		1.0	0.19
75-00-3	Chloroethane	22.9		1.0	0.52
67-66-3	Chloroform	18.7		1.0	0.32
74-87-3	Chloromethane	18.3		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	18.5		1.0	0.15
110-82-7	Cyclohexane	22.4		1.0	0.22
75-27-4	Bromodichloromethane	17.7		1.0	0.26
75-71-8	Dichlorodifluoromethane	21.9		1.0	0.34
100-41-4	Ethylbenzene	20.2		1.0	0.20
106-93-4	1,2-Dibromoethane	19.1		1.0	0.18
98-82-8	Isopropylbenzene	21.0		1.0	0.13
79-20-9	Methyl acetate	32.1		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-532498/4

Matrix: Solid | Lab File ID: D52029.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 18:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532498 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.9		1.0	0.13
108-87-2	Methylcyclohexane	21.5		1.0	0.16
75-09-2	Methylene Chloride	19.6		1.0	0.16
127-18-4	Tetrachloroethene	19.9		1.0	0.14
108-88-3	Toluene	19.5		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.27
79-01-6	Trichloroethene	18.2		1.0	0.14
75-69-4	Trichlorofluoromethane	21.7		1.0	0.41
75-01-4	Vinyl chloride	20.8		1.0	0.55
1330-20-7	Xylenes, Total	40.6		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	19.4		1.0	0.27
100-42-5	Styrene	19.9		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-135
460-00-4	4-Bromofluorobenzene	89		67-126
2037-26-5	Toluene-d8 (Surr)	103		73-121
1868-53-7	Dibromofluoromethane (Surr)	101		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52029.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 30-Jun-2018 18:23:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0074660-004
Operator ID: Instrument ID: CVOAMS4

Method: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\8260S_4.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 00:32:02 Calib Date: 24-May-2018 06:58:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS4\20180524-72566.b\D50579.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK019

First Level Reviewer: tupayachia Date: 01-Jul-2018 03:30:52

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.539	1.539	0.000	92	51658	20.0	19.5	a
2 Dichlorodifluoromethane	85	1.570	1.576	-0.006	99	100822	20.0	21.9	
3 Chloromethane	50	1.777	1.777	0.000	99	70634	20.0	18.3	
4 Vinyl chloride	62	1.875	1.881	-0.006	97	70214	20.0	20.8	
5 Butadiene	54	1.881	1.887	-0.006	98	59300	20.0	19.5	
6 Bromomethane	94	2.216	2.216	0.000	99	59083	20.0	23.2	
7 Chloroethane	64	2.289	2.289	0.000	99	42525	20.0	22.9	
8 Dichlorofluoromethane	67	2.521	2.521	0.000	99	108395	20.0	20.6	
10 Pentane	72	2.527	2.527	0.000	97	20045	40.0	40.6	
9 Trichlorofluoromethane	101	2.527	2.527	0.000	97	91373	20.0	21.7	
11 Ethyl ether	59	2.765	2.759	0.006	89	36320	20.0	18.3	
12 Ethanol	46	2.765	2.765	0.000	75	11921	800.0	796.5	
13 2-Methyl-1,3-butadiene	53	2.783	2.783	0.000	94	44946	20.0	20.8	
14 1,2-Dichloro-1,1,2-trifluo	117	2.856	2.856	0.000	79	58190	20.0	22.4	
16 Acrolein	56	2.972	2.972	0.000	97	97240	300.0	261.7	
15 1,1,2-Trichloro-1,2,2-trif	101	3.002	3.002	0.000	98	70202	20.0	24.3	
17 1,1-Dichloroethene	96	3.008	3.009	-0.001	95	58868	20.0	21.2	
18 Acetone	43	3.118	3.118	0.000	87	61986	100.0	99.3	
19 Iodomethane	142	3.185	3.185	0.000	96	136421	20.0	20.7	
20 Carbon disulfide	76	3.222	3.222	0.000	98	199084	20.0	20.3	
21 Isopropyl alcohol	45	3.246	3.240	0.006	98	34841	200.0	169.2	
22 3-Chloro-1-propene	76	3.393	3.387	0.006	89	32475	20.0	19.6	
23 Cyclopentene	67	3.411	3.411	0.000	91	132986	20.0	21.7	
24 Methyl acetate	43	3.417	3.411	0.006	98	57974	40.0	32.1	
25 Acetonitrile	40	3.484	3.478	0.006	98	34669	200.0	243.7	
26 Methylene Chloride	84	3.551	3.551	0.000	86	64596	20.0	19.6	
* 27 TBA-d9 (IS)	65	3.569	3.563	0.006	36	342154	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.655	3.649	0.006	99	67815	200.0	182.0	
29 Methyl tert-butyl ether	73	3.752	3.746	0.006	96	145578	20.0	19.9	
30 trans-1,2-Dichloroethene	96	3.777	3.771	0.006	92	60622	20.0	19.9	
31 Acrylonitrile	53	3.868	3.868	0.000	93	158632	200.0	184.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.966	3.966	0.000	91	72069	20.0	20.3	
33 Isopropyl ether	45	4.240	4.234	0.006	95	147344	20.0	19.5	
34 1,1-Dichloroethane	63	4.258	4.258	0.000	99	90938	20.0	19.4	
35 Vinyl acetate	86	4.295	4.289	0.006	99	18083	40.0	36.4	
36 2-Chloro-1,3-butadiene	88	4.313	4.313	0.000	88	50318	20.0	20.0	
37 Tert-butyl ethyl ether	59	4.630	4.624	0.006	90	143607	20.0	19.7	
* 38 2-Butanone-d5	46	4.862	4.856	0.006	0	233455	250.0	250.0	
39 2,2-Dichloropropane	79	4.874	4.874	0.000	96	26040	20.0	19.9	
40 cis-1,2-Dichloroethene	96	4.898	4.898	0.000	97	64777	20.0	18.5	
41 2-Butanone (MEK)	72	4.929	4.929	0.000	98	24754	100.0	97.1	
42 Ethyl acetate	70	4.941	4.941	0.000	96	9011	40.0	42.3	
43 Methyl acrylate	55	5.002	5.002	0.000	99	32838	20.0	16.0	
44 Propionitrile	54	5.087	5.087	0.000	98	60366	200.0	168.3	
45 Tetrahydrofuran	72	5.173	5.167	0.006	94	11963	40.0	41.5	
46 Chlorobromomethane	128	5.179	5.179	0.000	78	33262	20.0	19.2	
47 Methacrylonitrile	67	5.215	5.215	0.000	90	166613	200.0	168.1	
48 Chloroform	83	5.252	5.252	0.000	99	87825	20.0	18.7	
49 Cyclohexane	84	5.398	5.398	0.000	87	89103	20.0	22.4	
50 1,1,1-Trichloroethane	97	5.423	5.423	0.000	99	81225	20.0	20.3	
$ 51 Dibromofluoromethane (Surr	113	5.447	5.441	0.006	98	160059	50.0	50.7	
52 Carbon tetrachloride	117	5.569	5.563	0.006	96	70646	20.0	20.1	
53 1,1-Dichloropropene	75	5.606	5.606	0.000	97	68137	20.0	18.6	
54 Isobutyl alcohol	43	5.801	5.801	0.000	93	85855	500.0	463.3	
55 Benzene	78	5.849	5.843	0.006	96	195979	20.0	20.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.874	5.874	0.000	97	128929	50.0	47.0	
57 Tert-amyl methyl ether	87	5.947	5.947	0.000	90	44672	20.0	19.3	
58 Isopropyl acetate	43	5.947	5.947	0.000	98	122961	20.0	17.3	
59 1,2-Dichloroethane	62	5.965	5.965	0.000	95	54642	20.0	16.9	
60 n-Heptane	57	6.063	6.057	0.006	89	39574	20.0	19.9	
* 61 Fluorobenzene	96	6.209	6.209	0.000	99	532359	50.0	50.0	
62 n-Butanol	56	6.624	6.624	0.000	87	31373	500.0	410.5	
63 Trichloroethene	95	6.654	6.648	0.006	95	51215	20.0	18.2	
64 Methylcyclohexane	83	6.794	6.794	0.000	95	103104	20.0	21.5	
65 Ethyl acrylate	73	6.825	6.819	0.006	97	3273	20.0	17.6	
66 1,2-Dichloropropane	63	6.989	6.990	-0.001	93	45153	20.0	18.3	
* 67 1,4-Dioxane-d8	96	7.063	7.057	0.006	0	30757	1000.0	1000.0	
68 Methyl methacrylate	100	7.093	7.093	0.000	85	22502	40.0	36.2	
69 1,4-Dioxane	88	7.117	7.118	-0.001	85	12564	400.0	381.3	
70 Dibromomethane	93	7.130	7.130	0.000	91	29509	20.0	17.4	
71 n-Propyl acetate	43	7.160	7.160	0.000	97	50021	20.0	16.6	
72 Dichlorobromomethane	83	7.300	7.294	0.006	99	56834	20.0	17.7	
73 2-Nitropropane	41	7.630	7.630	0.000	96	14516	40.0	27.1	
74 2-Chloroethyl vinyl ether	63	7.642	7.642	0.000	86	3181	20.0	3.90	
75 Epichlorohydrin	57	7.733	7.733	0.000	98	72226	400.0	388.2	
76 cis-1,3-Dichloropropene	75	7.782	7.782	0.000	89	64630	20.0	19.4	
77 4-Methyl-2-pentanone (MIBK	43	7.934	7.928	0.006	95	184612	100.0	103.0	
$ 78 Toluene-d8 (Surr)	98	7.995	7.995	0.000	99	503418	50.0	51.3	
79 Toluene	91	8.062	8.062	0.000	93	199235	20.0	19.5	
80 trans-1,3-Dichloropropene	75	8.355	8.355	0.000	98	52850	20.0	19.0	
81 Ethyl methacrylate	69	8.379	8.379	0.000	88	46640	20.0	17.4	
82 1,1,2-Trichloroethane	83	8.526	8.526	0.000	96	31710	20.0	19.3	
83 Tetrachloroethene	166	8.556	8.556	0.000	97	60959	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.684	8.684	0.000	88	58192	20.0	19.3	
85 2-Hexanone	43	8.727	8.727	0.000	95	111307	100.0	96.4	
86 n-Butyl acetate	73	8.806	8.806	0.000	98	9515	20.0	18.1	
87 Chlorodibromomethane	129	8.855	8.855	0.000	98	42573	20.0	18.6	
88 Ethylene Dibromide	107	8.965	8.965	0.000	99	37562	20.0	19.1	
* 89 Chlorobenzene-d5	117	9.337	9.337	0.000	83	369734	50.0	50.0	
90 Chlorobenzene	112	9.361	9.361	0.000	98	130826	20.0	19.5	
91 Ethylbenzene	106	9.422	9.422	0.000	97	72696	20.0	20.2	
92 1,1,1,2-Tetrachloroethane	131	9.440	9.440	0.000	96	52457	20.0	20.4	
93 m-Xylene & p-Xylene	106	9.526	9.526	0.000	100	88749	20.0	19.8	
94 n-Butyl acrylate	73	9.818	9.818	0.000	98	27656	20.0	19.9	
95 o-Xylene	106	9.849	9.849	0.000	95	90815	20.0	20.7	
96 Styrene	104	9.873	9.873	0.000	98	139697	20.0	19.9	
97 Amyl acetate (mixed isomer	43	9.989	9.989	0.000	92	60481	20.0	19.3	
98 Bromoform	173	10.050	10.050	0.000	98	28057	20.0	17.7	
99 Isopropylbenzene	105	10.129	10.129	0.000	95	245404	20.0	21.0	
$ 100 4-Bromofluorobenzene	174	10.294	10.294	0.000	0	167670	50.0	44.7	
101 Bromobenzene	156	10.403	10.403	0.000	90	61124	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.422	10.422	0.000	98	53056	20.0	19.6	
103 N-Propylbenzene	91	10.446	10.446	0.000	100	268882	20.0	20.5	
104 1,2,3-Trichloropropane	110	10.464	10.464	0.000	98	15290	20.0	19.2	
105 trans-1,4-Dichloro-2-buten	53	10.470	10.471	-0.001	80	11496	20.0	18.5	
106 4-Ethyltoluene	105	10.531	10.532	-0.001	99	235248	20.0	21.1	
107 2-Chlorotoluene	91	10.538	10.538	0.000	97	180003	20.0	20.3	
108 1,3,5-Trimethylbenzene	105	10.580	10.580	0.000	94	205860	20.0	21.2	
109 4-Chlorotoluene	91	10.623	10.623	0.000	95	148634	20.0	19.8	
110 Butyl Methacrylate	87	10.635	10.635	0.000	88	60198	20.0	20.7	
111 tert-Butylbenzene	119	10.818	10.818	0.000	96	171559	20.0	21.0	
112 1,2,4-Trimethylbenzene	105	10.861	10.861	0.000	96	205726	20.0	21.0	
113 sec-Butylbenzene	105	10.976	10.977	-0.001	99	266794	20.0	21.4	
114 4-Isopropyltoluene	119	11.080	11.080	0.000	98	237475	20.0	21.6	
115 1,3-Dichlorobenzene	146	11.098	11.098	0.000	98	117633	20.0	20.2	
* 116 1,4-Dichlorobenzene-d4	152	11.153	11.153	0.000	93	214812	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.172	11.172	0.000	97	119973	20.0	20.4	
118 Benzyl chloride	126	11.275	11.275	0.000	99	18743	20.0	19.9	
119 2,3-Dihydroindene	117	11.330	11.330	0.000	94	234637	20.0	19.4	
120 p-Diethylbenzene	119	11.361	11.355	0.006	95	151509	20.0	22.7	
121 n-Butylbenzene	92	11.379	11.379	0.000	97	119040	20.0	21.4	
122 1,2-Dichlorobenzene	146	11.452	11.452	0.000	99	117480	20.0	20.1	
123 1,2,4,5-Tetramethylbenzene	119	11.982	11.982	0.000	98	214847	20.0	21.7	
124 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	89	13378	20.0	19.0	
125 1,3,5-Trichlorobenzene	180	12.232	12.232	0.000	97	103062	20.0	20.5	
126 1,2,4-Trichlorobenzene	180	12.860	12.860	0.000	94	94888	20.0	20.6	
127 Hexachlorobutadiene	225	12.970	12.970	0.000	97	43101	20.0	18.7	
128 Naphthalene	128	13.153	13.153	0.000	99	211856	20.0	20.3	
129 1,2,3-Trichlorobenzene	180	13.439	13.439	0.000	96	94405	20.0	20.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	38.4	
S 131 1,3-Dichloropropene, Total	100				0		40.0	38.4	
S 132 Xylenes, Total	100				0		40.0	40.6	
S 133 Total BTEX	1				0		100.0	100.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00266	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00175	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jul-2018 00:32:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS4\20180630-74660.b\D52029.D

Injection Date: 30-Jun-2018 18:23:30 Instrument ID: CVOAMS4 Operator ID:

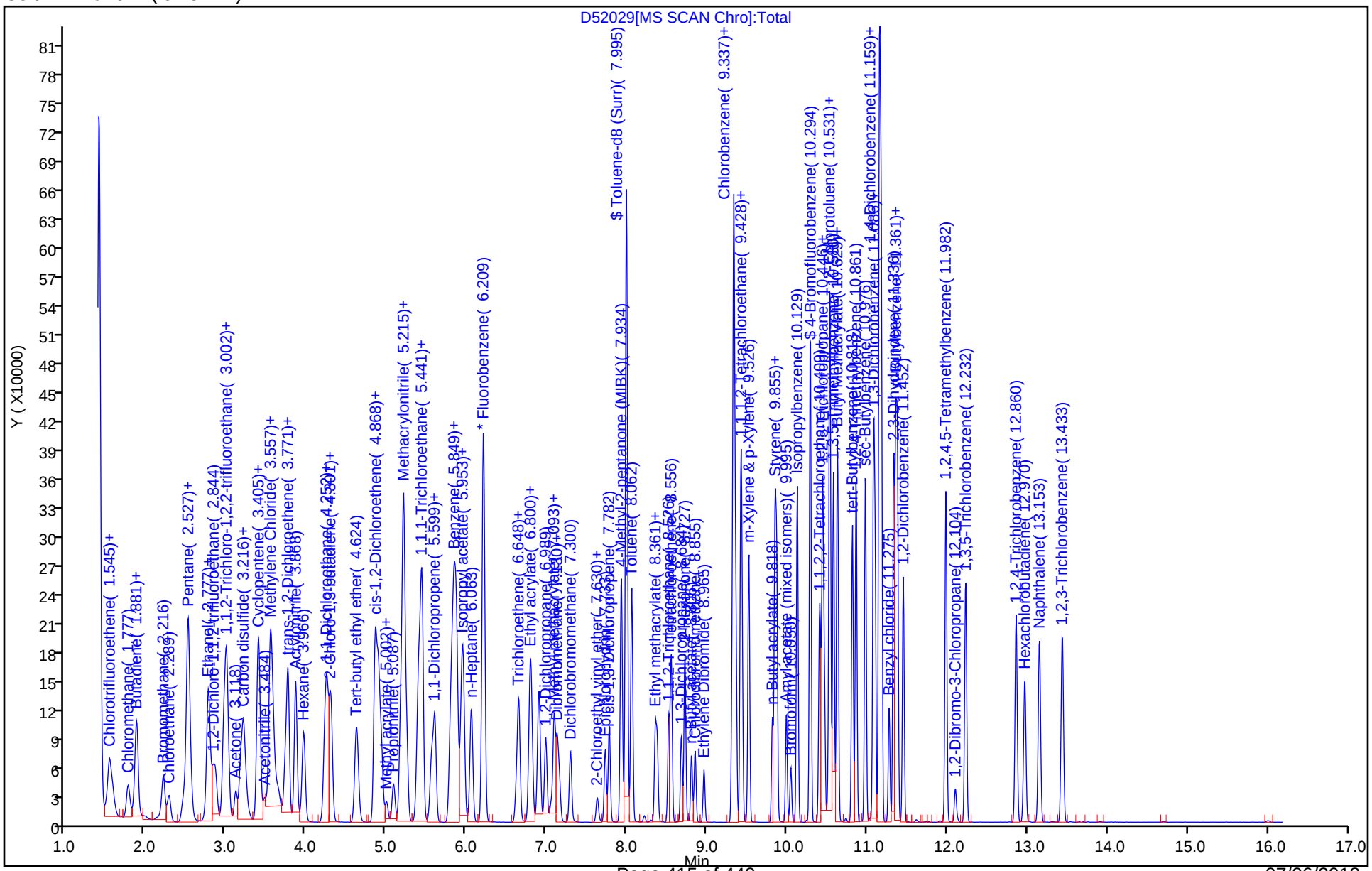
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S_4 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12MS-WG-75-06202018 MS | Lab Sample ID: 460-159001-3 MS

Matrix: Water | Lab File ID: P47490.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	16.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	18.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.7		1.0	0.43
75-34-3	1,1-Dichloroethane	19.1		1.0	0.26
75-35-4	1,1-Dichloroethene	17.0		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.2		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.43
107-06-2	1,2-Dichloroethane	17.3		1.0	0.43
78-87-5	1,2-Dichloropropane	17.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	18.9		1.0	0.34
106-46-7	1,4-Dichlorobenzene	18.5		1.0	0.76
78-93-3	2-Butanone (MEK)	84.0		5.0	1.9
591-78-6	2-Hexanone	101		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	96.6		5.0	2.7
67-64-1	Acetone	106		5.0	5.0
71-43-2	Benzene	19.8		1.0	0.43
75-25-2	Bromoform	18.4		1.0	0.54
74-83-9	Bromomethane	7.76		1.0	1.0
75-15-0	Carbon disulfide	16.0		1.0	0.16
56-23-5	Carbon tetrachloride	15.9		1.0	0.21
108-90-7	Chlorobenzene	19.9		1.0	0.38
124-48-1	Dibromochloromethane	17.8		1.0	0.28
75-00-3	Chloroethane	19.8		1.0	0.32
67-66-3	Chloroform	17.4		1.0	0.33
74-87-3	Chloromethane	15.3		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	15.6		1.0	0.22
110-82-7	Cyclohexane	17.0		1.0	0.32
75-27-4	Bromodichloromethane	17.0		1.0	0.34
75-71-8	Dichlorodifluoromethane	18.2		1.0	0.12
100-41-4	Ethylbenzene	19.6		1.0	0.30
106-93-4	1,2-Dibromoethane	19.3		1.0	0.50
98-82-8	Isopropylbenzene	19.8		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12MS-WG-75-06202018 MS | Lab Sample ID: 460-159001-3 MS

Matrix: Water | Lab File ID: P47490.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	36.6		5.0	0.31
1634-04-4	Methyl tert-butyl ether	17.2		1.0	0.47
108-87-2	Methylcyclohexane	16.7		1.0	0.26
75-09-2	Methylene Chloride	18.4		1.0	0.32
127-18-4	Tetrachloroethene	19.9		1.0	0.25
108-88-3	Toluene	18.9		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	17.1		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.0		1.0	0.49
79-01-6	Trichloroethene	17.6		1.0	0.31
75-69-4	Trichlorofluoromethane	20.6		1.0	0.14
75-01-4	Vinyl chloride	18.5		1.0	0.17
1330-20-7	Xylenes, Total	37.9		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	16.8		1.0	0.46
100-42-5	Styrene	18.3		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
2037-26-5	Toluene-d8 (Surr)	97		80-120
1868-53-7	Dibromofluoromethane (Surr)	89		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47490.D
Lims ID: 460-159001-B-3 MS
Client ID: PDI-12MS-WG-75-06202018
Sample Type: MS
Inject. Date: 30-Jun-2018 22:01:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-3 MS
Misc. Info.: 460-0074647-018
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:19:04 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: moroneyc Date: 01-Jul-2018 07:49:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	90	11967	20.0	9.05	
2 Dichlorodifluoromethane	85	0.870	0.871	-0.001	98	72484	20.0	18.2	
4 Chloromethane	50	0.985	0.985	0.000	99	58466	20.0	15.3	a
5 Vinyl chloride	62	1.007	1.007	0.000	98	79565	20.0	18.5	
3 Butadiene	54	1.014	1.014	0.000	98	70679	20.0	18.7	
6 Bromomethane	94	1.164	1.164	0.000	98	13852	20.0	7.76	
7 Chloroethane	64	1.229	1.229	0.000	99	48555	20.0	19.8	
9 Pentane	72	1.293	1.293	0.000	97	20154	40.0	46.4	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	59	86567	20.0	20.6	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	98	118497	20.0	21.2	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	95	76148	20.0	18.2	
12 Ethyl ether	59	1.458	1.458	0.000	91	50384	20.0	17.9	
13 Ethanol	46	1.537	1.537	0.000	99	15744	800.0	966.1	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	86	70826	20.0	18.7	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	95	43453	20.0	17.0	
16 Carbon disulfide	76	1.580	1.580	0.000	100	161663	20.0	16.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	97	48545	20.0	18.4	
18 Iodomethane	142	1.637	1.637	0.000	99	16949	20.0	5.32	
19 Cyclopentene	67	1.723	1.723	0.000	97	136372	20.0	18.8	
20 Acrolein	56	1.744	1.737	0.007	94	20179	40.0	72.1	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	30164	20.0	16.7	
22 Isopropyl alcohol	45	1.845	1.838	0.007	96	49682	200.0	228.5	
23 Methylene Chloride	84	1.880	1.881	-0.001	98	60581	20.0	18.4	
24 Acetone	43	1.902	1.902	0.000	85	112710	100.0	106.2	
25 trans-1,2-Dichloroethene	96	1.974	1.967	0.007	98	51956	20.0	17.1	
26 Methyl acetate	43	1.981	1.981	0.000	100	98185	40.0	36.6	
27 Hexane	86	2.017	2.024	-0.007	93	13886	20.0	17.2	
28 Methyl tert-butyl ether	73	2.038	2.038	0.000	89	166207	20.0	17.2	
* 29 TBA-d9 (IS)	65	2.060	2.060	0.000	0	251826	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.103	2.103	-0.001	98	59648	200.0	190.1	
31 Acetonitrile	41	2.174	2.174	0.000	99	102635	200.0	269.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.274	2.267	0.007	96	235492	20.0	18.9	
33 2-Chloro-1,3-butadiene	88	2.325	2.325	0.000	93	46108	20.0	16.7	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	113856	20.0	19.1	
35 Acrylonitrile	53	2.375	2.375	0.000	92	282163	200.0	198.8	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	87	185808	20.0	16.6	
37 Vinyl acetate	43	2.511	2.511	0.000	100	332570	40.0	39.4	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	91	54589	20.0	15.6	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	96	83744	20.0	16.5	
40 Cyclohexane	56	2.833	2.826	0.007	97	105345	20.0	17.0	
41 Chlorobromomethane	128	2.833	2.833	0.000	92	27867	20.0	18.0	
42 Chloroform	83	2.898	2.898	0.000	97	99962	20.0	17.4	
43 Carbon tetrachloride	117	2.984	2.984	0.000	98	63761	20.0	15.9	
44 Ethyl acetate	70	2.998	2.998	0.000	98	13622	40.0	30.8	
45 Methyl acrylate	55	2.998	2.998	0.000	90	57100	20.0	17.2	
46 Tetrahydrofuran	42	3.005	3.005	0.000	92	57327	40.0	37.7	
$ 47 Dibromofluoromethane (Surr	113	3.027	3.027	0.000	96	121139	50.0	44.3	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	97	81207	20.0	16.5	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	363399	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	91	83347	20.0	17.0	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	98	37306	100.0	84.0	
52 Isooctane	57	3.220	3.220	0.000	98	195400	20.0	16.1	
53 n-Heptane	57	3.313	3.313	0.000	96	51823	20.0	15.6	
54 Benzene	78	3.320	3.320	0.000	96	249229	20.0	19.8	
55 Propionitrile	54	3.342	3.342	0.000	97	105105	200.0	236.6	
56 Methacrylonitrile	67	3.363	3.363	0.000	96	285173	200.0	197.0	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	171467	50.0	45.8	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	95	162853	20.0	15.8	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	96	88313	20.0	17.3	
60 Isobutyl alcohol	43	3.557	3.557	0.000	99	64585	500.0	472.6	
61 t-Amyl alcohol	59	3.628	3.628	0.000	89	37910	200.0	150.4	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	516900	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	127640	20.0	17.2	
64 Methylcyclohexane	83	3.793	3.800	-0.007	92	98738	20.0	16.7	
65 Trichloroethene	130	3.814	3.815	-0.001	97	56162	20.0	17.6	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	89	131496	20.0	14.0	
67 Dibromomethane	93	4.187	4.187	0.000	97	37515	20.0	18.0	
68 n-Butanol	56	4.194	4.194	0.000	93	34091	500.0	416.6	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	88	64033	20.0	17.6	
70 Ethyl acrylate	55	4.359	4.359	0.000	97	72421	20.0	15.7	
71 Dichlorobromomethane	83	4.359	4.359	0.000	99	75147	20.0	17.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	28304	1000.0	1000.0	
73 Methyl methacrylate	100	4.552	4.560	-0.008	93	30257	40.0	34.2	
74 1,4-Dioxane	88	4.581	4.581	0.000	95	15107	400.0	421.4	
75 n-Propyl acetate	43	4.717	4.717	0.000	99	88769	20.0	16.7	
77 cis-1,3-Dichloropropene	75	5.011	5.011	0.000	97	85440	20.0	16.8	
$ 78 Toluene-d8 (Surr)	98	5.204	5.204	0.000	98	526346	50.0	48.3	
79 Toluene	91	5.261	5.262	-0.001	93	261371	20.0	18.9	
80 Epichlorohydrin	57	5.290	5.290	0.000	99	123912	400.0	347.6	
81 2-Nitropropane	41	5.519	5.519	0.000	100	30344	40.0	29.3	
82 Tetrachloroethene	166	5.691	5.691	0.000	94	57769	20.0	19.9	
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	98	353703	100.0	96.6	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	93	84304	20.0	18.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	5.935	5.935	0.000	93	46383	20.0	19.7	
86 Ethyl methacrylate	69	6.021	6.021	0.000	92	70600	20.0	15.7	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	50570	20.0	17.8	
88 1,3-Dichloropropane	76	6.250	6.257	-0.007	97	99339	20.0	20.5	
89 Ethylene Dibromide	107	6.386	6.386	0.000	96	51791	20.0	19.3	
90 n-Butyl acetate	43	6.730	6.730	0.000	97	88102	20.0	15.8	
91 2-Hexanone	43	6.794	6.794	0.000	98	259686	100.0	100.9	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	90	397763	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	92	164902	20.0	19.9	
94 Ethylbenzene	106	7.188	7.181	0.007	99	89950	20.0	19.6	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	93	49208	20.0	18.0	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	105645	20.0	19.0	
97 o-Xylene	106	7.991	7.991	0.000	93	102304	20.0	18.9	
98 Bromoform	173	8.055	8.055	0.000	94	33093	20.0	18.4	
99 Styrene	104	8.076	8.077	-0.001	95	166403	20.0	18.3	
100 n-Butyl acrylate	73	8.399	8.399	0.000	95	38070	20.0	16.1	
101 Isopropylbenzene	105	8.470	8.478	-0.008	96	288830	20.0	19.8	
102 Amyl acetate (mixed isomer	43	8.821	8.814	0.007	89	106787	20.0	15.0	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	87	154278	50.0	49.6	
104 Bromobenzene	156	8.958	8.965	-0.007	95	68671	20.0	18.4	
105 N-Propylbenzene	91	9.108	9.108	0.000	98	340398	20.0	17.7	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.259	-0.001	98	76270	20.0	18.9	
107 2-Chlorotoluene	91	9.287	9.287	0.000	97	236160	20.0	18.0	
108 4-Ethyltoluene	105	9.301	9.302	-0.001	97	283062	20.0	18.1	
109 1,2,3-Trichloropropane	110	9.394	9.387	0.007	97	21934	20.0	19.1	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	92	233627	20.0	17.5	
111 trans-1,4-Dichloro-2-buten	53	9.516	9.524	-0.008	81	21025	20.0	14.8	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	216006	20.0	17.9	
113 tert-Butylbenzene	119	9.925	9.925	0.000	93	192664	20.0	17.5	
115 1,2,4-Trimethylbenzene	105	10.053	10.054	-0.001	96	242309	20.0	18.3	
114 Butyl Methacrylate	87	10.053	10.054	-0.001	66	65773	20.0	14.0	
116 sec-Butylbenzene	105	10.218	10.218	0.000	99	304551	20.0	17.8	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	94	133269	20.0	18.9	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	253586	20.0	17.9	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	96	228796	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.641	-0.007	93	141698	20.0	18.5	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	254615	20.0	18.2	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	252870	20.0	18.7	
122 Benzyl chloride	126	11.092	11.092	0.000	96	18268	20.0	12.4	
123 p-Diethylbenzene	119	11.106	11.107	-0.001	93	142703	20.0	18.9	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	256261	20.0	18.9	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	94	130843	20.0	19.4	
126 1,2,4,5-Tetramethylbenzene	119	12.195	12.195	0.000	97	222655	20.0	18.2	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	89	11909	20.0	16.3	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	102292	20.0	20.2	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	93	86022	20.0	19.2	
130 Hexachlorobutadiene	225	13.076	13.069	0.007	91	38378	20.0	17.5	
131 Naphthalene	128	13.356	13.356	0.000	99	167286	20.0	16.6	
132 1,2,3-Trichlorobenzene	180	13.528	13.528	0.000	94	79321	20.0	19.6	
S 133 1,2-Dichloroethene, Total	100				0		40.0	32.7	
S 134 1,3-Dichloropropene, Total	100				0		40.0	34.8	
S 135 Xylenes, Total	100				0		40.0	37.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Total BTEX	1				0		100.0	96.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00266	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00123	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

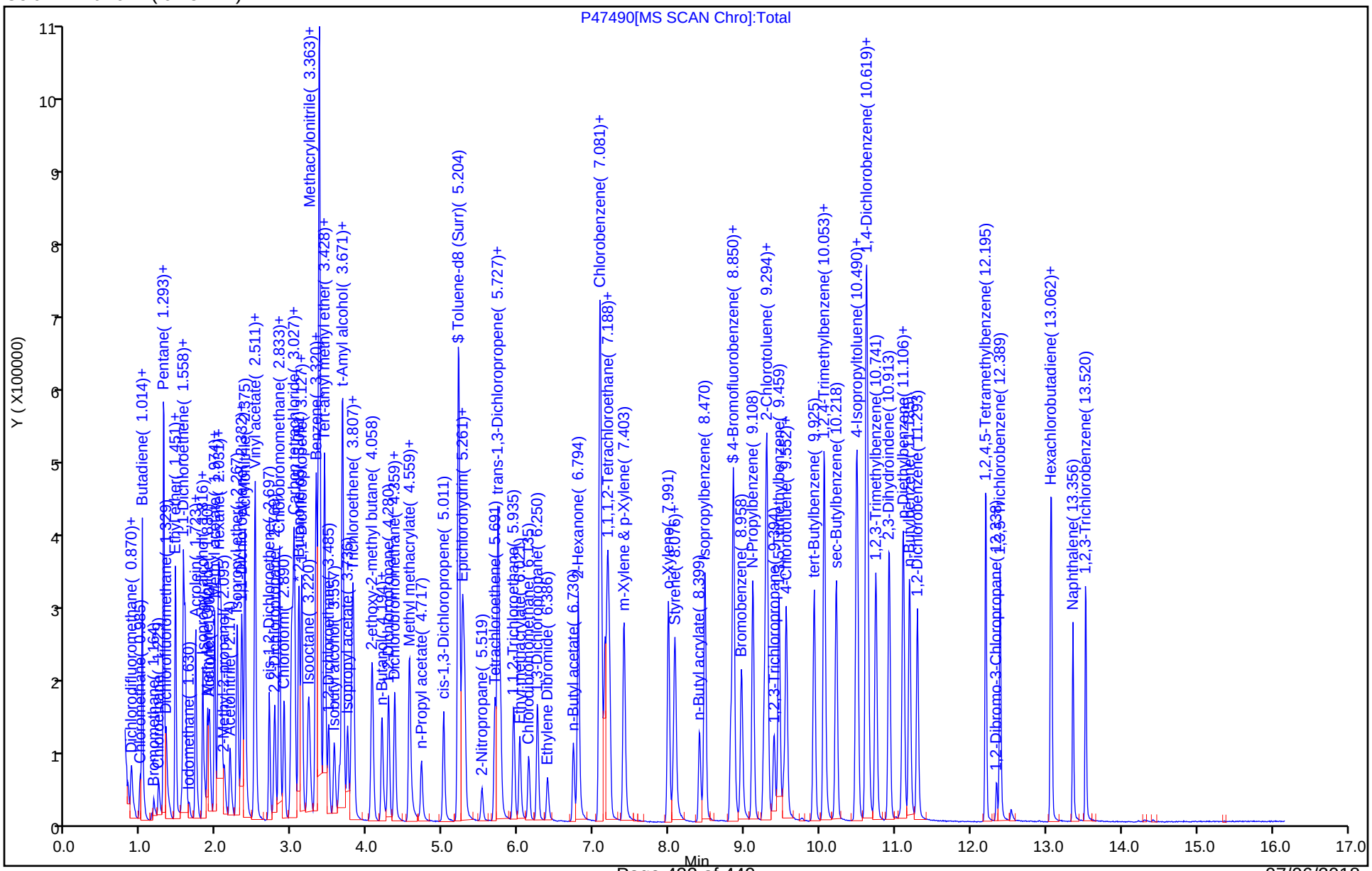
Report Date: 01-Jul-2018 14:19:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47490.D

Injection Date:	30-Jun-2018 22:01:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-B-3 MS			Worklist Smp#:	18
Client ID:	PDI-12MS-WG-75-06202018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

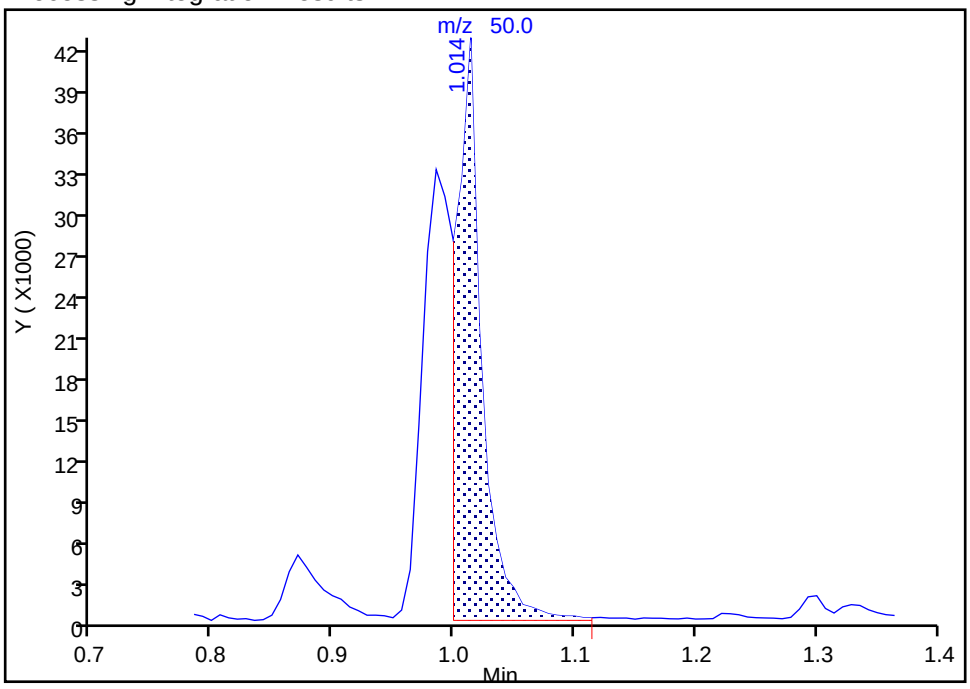
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47490.D				
Injection Date:	30-Jun-2018 22:01:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-3 MS				
Client ID:	PDI-12MS-WG-75-06202018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

4 Chloromethane, CAS: 74-87-3

Signal: 1

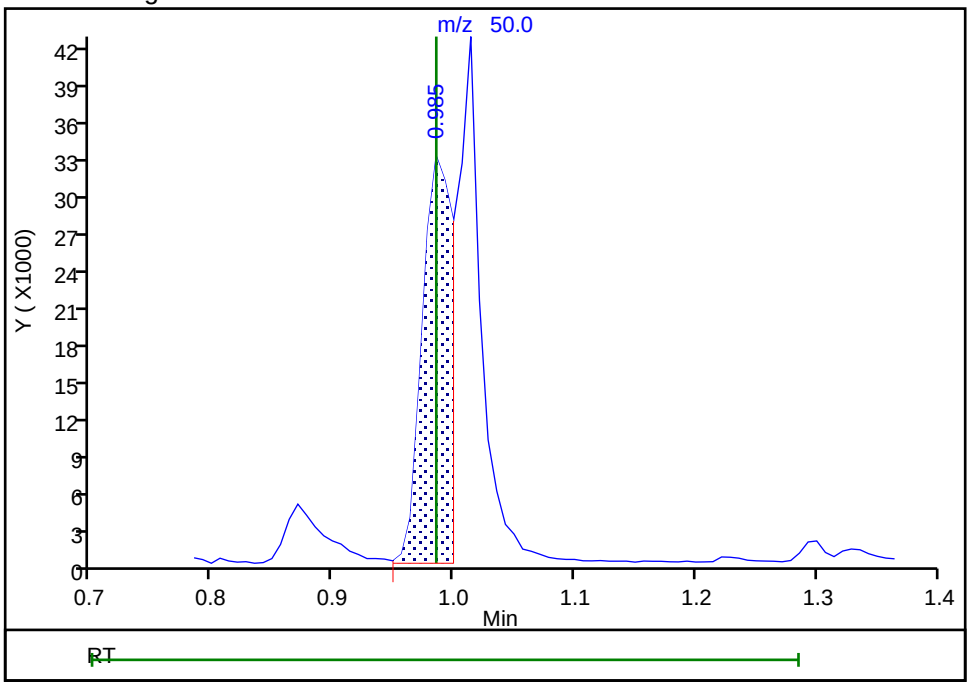
Processing Integration Results

RT: 1.01
Area: 63739
Amount: 16.676410
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 58466
Amount: 15.296804
Amount Units: ug/l



Reviewer: xuyvo, 01-Jul-2018 14:18:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12MSD-WG-75-06202018 MSD | Lab Sample ID: 460-159001-3 MSD

Matrix: Water | Lab File ID: P47491.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	16.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	18.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.4		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.6		1.0	0.43
75-34-3	1,1-Dichloroethane	19.5		1.0	0.26
75-35-4	1,1-Dichloroethene	18.0		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.9		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	16.3		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.3		1.0	0.43
107-06-2	1,2-Dichloroethane	17.2		1.0	0.43
78-87-5	1,2-Dichloropropane	18.2		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.4		1.0	0.34
106-46-7	1,4-Dichlorobenzene	18.9		1.0	0.76
78-93-3	2-Butanone (MEK)	81.7		5.0	1.9
591-78-6	2-Hexanone	99.1		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	88.7		5.0	2.7
67-64-1	Acetone	100		5.0	5.0
71-43-2	Benzene	19.8		1.0	0.43
75-25-2	Bromoform	16.8		1.0	0.54
74-83-9	Bromomethane	10.1		1.0	1.0
75-15-0	Carbon disulfide	16.6		1.0	0.16
56-23-5	Carbon tetrachloride	15.7		1.0	0.21
108-90-7	Chlorobenzene	20.0		1.0	0.38
124-48-1	Dibromochloromethane	18.0		1.0	0.28
75-00-3	Chloroethane	20.7		1.0	0.32
67-66-3	Chloroform	16.8		1.0	0.33
74-87-3	Chloromethane	16.2		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	15.8		1.0	0.22
110-82-7	Cyclohexane	17.4		1.0	0.32
75-27-4	Bromodichloromethane	17.0		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.2		1.0	0.12
100-41-4	Ethylbenzene	19.9		1.0	0.30
106-93-4	1,2-Dibromoethane	18.9		1.0	0.50
98-82-8	Isopropylbenzene	19.1		1.0	0.34

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159001-1

SDG No.:

Client Sample ID: PDI-12MSD-WG-75-06202018 MSD | Lab Sample ID: 460-159001-3 MSD

Matrix: Water | Lab File ID: P47491.D

Analysis Method: 8260C | Date Collected: 06/20/2018 14:30

Sample wt/vol: 5(mL) | Date Analyzed: 06/30/2018 22:27

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 532483 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	35.1		5.0	0.31
1634-04-4	Methyl tert-butyl ether	17.6		1.0	0.47
108-87-2	Methylcyclohexane	17.0		1.0	0.26
75-09-2	Methylene Chloride	17.5		1.0	0.32
127-18-4	Tetrachloroethene	21.7		1.0	0.25
108-88-3	Toluene	18.6		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	17.3		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	17.5		1.0	0.49
79-01-6	Trichloroethene	17.8		1.0	0.31
75-69-4	Trichlorofluoromethane	21.1		1.0	0.14
75-01-4	Vinyl chloride	19.8		1.0	0.17
1330-20-7	Xylenes, Total	38.1		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	16.3		1.0	0.46
100-42-5	Styrene	18.4		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	83		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	89		80-120
1868-53-7	Dibromofluoromethane (Surr)	83		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47491.D
Lims ID: 460-159001-B-3 MSD
Client ID: PDI-12MSD-WG-75-06202018
Sample Type: MSD
Inject. Date: 30-Jun-2018 22:27:30 ALS Bottle#: 18 Worklist Smp#: 19
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159001-B-3 MSD
Misc. Info.: 460-0074647-019
Operator ID: Instrument ID: CVOAMS13

Method: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\8260W_13.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 01-Jul-2018 14:19:26 Calib Date: 20-Apr-2018 07:16:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS13\20180419-70689.b\P44001.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: moroneyc Date: 01-Jul-2018 07:50:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.856	0.856	0.000	90	16071	20.0	11.3	
2 Dichlorodifluoromethane	85	0.870	0.871	-0.001	99	82551	20.0	19.2	
4 Chloromethane	50	0.985	0.985	0.000	99	66897	20.0	16.2	a
5 Vinyl chloride	62	1.007	1.007	-0.001	98	91649	20.0	19.8	
3 Butadiene	54	1.014	1.014	0.000	99	82697	20.0	20.3	
6 Bromomethane	94	1.164	1.164	0.000	99	19263	20.0	10.1	
7 Chloroethane	64	1.229	1.229	0.000	100	54502	20.0	20.7	
9 Pentane	72	1.300	1.293	0.007	96	22416	40.0	48.1	
8 Trichlorofluoromethane	101	1.300	1.300	0.000	59	95337	20.0	21.1	
10 Dichlorofluoromethane	67	1.329	1.329	0.000	98	130363	20.0	21.6	
11 2-Methyl-1,3-butadiene	67	1.451	1.451	0.000	96	84090	20.0	18.7	
12 Ethyl ether	59	1.458	1.458	0.000	95	56119	20.0	18.5	
13 Ethanol	46	1.537	1.537	0.000	100	16201	800.0	926.5	
15 1,2-Dichloro-1,1,2-trifluo	67	1.558	1.558	0.000	86	77618	20.0	19.1	
14 1,1-Dichloroethene	96	1.558	1.558	0.000	95	49338	20.0	18.0	
16 Carbon disulfide	76	1.580	1.580	0.000	100	180723	20.0	16.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.587	1.587	0.000	96	55169	20.0	19.4	
18 Iodomethane	142	1.637	1.637	0.000	99	25132	20.0	7.32	
19 Cyclopentene	67	1.723	1.723	0.000	97	154803	20.0	19.8	
20 Acrolein	56	1.744	1.737	0.007	93	21762	40.0	72.4	
21 3-Chloro-1-propene	76	1.816	1.816	0.000	91	33626	20.0	17.3	
22 Isopropyl alcohol	45	1.837	1.838	-0.001	96	49876	200.0	213.7	
23 Methylene Chloride	84	1.880	1.881	-0.001	98	61907	20.0	17.5	
24 Acetone	43	1.902	1.902	0.000	85	113266	100.0	100.1	
25 trans-1,2-Dichloroethene	96	1.974	1.967	0.007	98	56651	20.0	17.3	
26 Methyl acetate	43	1.981	1.981	0.000	100	101575	40.0	35.1	
27 Hexane	86	2.016	2.024	-0.008	95	15247	20.0	17.5	
28 Methyl tert-butyl ether	73	2.031	2.038	-0.007	97	182864	20.0	17.6	
* 29 TBA-d9 (IS)	65	2.059	2.060	-0.001	0	270219	1000.0	1000.0	
30 2-Methyl-2-propanol	59	2.102	2.103	-0.001	99	64097	200.0	190.4	
31 Acetonitrile	41	2.174	2.174	0.000	99	105054	200.0	257.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Isopropyl ether	45	2.267	2.267	0.000	96	244030	20.0	18.2	
33 2-Chloro-1,3-butadiene	88	2.324	2.325	-0.001	92	53054	20.0	17.9	
34 1,1-Dichloroethane	63	2.339	2.339	0.000	99	125076	20.0	19.5	
35 Acrylonitrile	53	2.375	2.375	0.000	94	299535	200.0	195.9	
36 Tert-butyl ethyl ether	59	2.504	2.504	0.000	88	203808	20.0	17.0	
37 Vinyl acetate	43	2.511	2.511	0.000	100	355192	40.0	39.0	
38 cis-1,2-Dichloroethene	96	2.697	2.697	0.000	90	59704	20.0	15.8	
39 2,2-Dichloropropane	77	2.769	2.769	0.000	93	88769	20.0	16.2	
40 Cyclohexane	56	2.833	2.826	0.007	96	115972	20.0	17.4	
41 Chlorobromomethane	128	2.833	2.833	0.000	96	27951	20.0	16.8	
42 Chloroform	83	2.898	2.898	0.000	97	103849	20.0	16.8	
43 Carbon tetrachloride	117	2.983	2.984	-0.001	97	67847	20.0	15.7	
44 Ethyl acetate	70	2.998	2.998	0.000	98	14889	40.0	31.6	
45 Methyl acrylate	55	2.998	2.998	0.000	96	61753	20.0	17.2	
46 Tetrahydrofuran	42	3.005	3.005	0.000	92	60485	40.0	37.3	
$ 47 Dibromofluoromethane (Surr	113	3.026	3.027	-0.001	96	122757	50.0	41.6	
48 1,1,1-Trichloroethane	97	3.034	3.034	0.000	97	87711	20.0	16.5	
* 49 2-Butanone-d5	46	3.091	3.091	0.000	0	387105	250.0	250.0	
51 1,1-Dichloropropene	75	3.127	3.127	0.000	94	88083	20.0	16.7	
50 2-Butanone (MEK)	72	3.127	3.127	0.000	99	38644	100.0	81.7	
52 Isooctane	57	3.220	3.220	0.000	98	204620	20.0	15.6	
53 n-Heptane	57	3.313	3.313	0.000	96	54071	20.0	15.1	
54 Benzene	78	3.320	3.320	0.000	96	269911	20.0	19.8	
55 Propionitrile	54	3.342	3.342	0.000	96	110772	200.0	232.4	
56 Methacrylonitrile	67	3.363	3.363	0.000	95	293582	200.0	188.3	
$ 57 1,2-Dichloroethane-d4 (Sur	65	3.428	3.428	0.000	0	166879	50.0	41.4	
58 Tert-amyl methyl ether	73	3.435	3.435	0.000	97	177507	20.0	16.0	
59 1,2-Dichloroethane	62	3.485	3.485	0.000	97	94678	20.0	17.2	
60 Isobutyl alcohol	43	3.557	3.557	0.000	97	66301	500.0	452.1	
61 t-Amyl alcohol	59	3.628	3.628	0.000	89	39747	200.0	146.9	
* 62 Fluorobenzene	96	3.671	3.671	0.000	98	556818	50.0	50.0	
63 Isopropyl acetate	43	3.736	3.736	0.000	98	133577	20.0	16.7	
64 Methylcyclohexane	83	3.793	3.800	-0.007	93	108343	20.0	17.0	
65 Trichloroethene	130	3.814	3.815	-0.001	97	61337	20.0	17.8	
66 2-ethoxy-2-methyl butane	59	4.058	4.058	0.000	90	144625	20.0	14.3	
67 Dibromomethane	93	4.187	4.187	0.000	97	40098	20.0	17.9	
68 n-Butanol	56	4.201	4.194	0.007	97	36613	500.0	417.0	
69 1,2-Dichloropropane	63	4.280	4.280	0.000	89	71107	20.0	18.2	
70 Ethyl acrylate	55	4.359	4.359	0.000	96	82041	20.0	16.5	
71 Dichlorobromomethane	83	4.359	4.359	0.000	98	80934	20.0	17.0	
* 72 1,4-Dioxane-d8	96	4.552	4.552	0.000	0	31358	1000.0	1000.0	
73 Methyl methacrylate	100	4.559	4.560	-0.001	94	31906	40.0	33.5	
74 1,4-Dioxane	88	4.574	4.581	-0.007	99	15882	400.0	399.9	
75 n-Propyl acetate	43	4.717	4.717	0.000	99	95359	20.0	16.7	
77 cis-1,3-Dichloropropene	75	5.011	5.011	0.000	96	89171	20.0	16.3	
$ 78 Toluene-d8 (Surr)	98	5.211	5.204	0.007	99	521043	50.0	44.3	
79 Toluene	91	5.261	5.262	-0.001	93	277019	20.0	18.6	
80 Epichlorohydrin	57	5.290	5.290	0.000	99	119152	400.0	313.8	
81 2-Nitropropane	41	5.519	5.519	0.000	99	29388	40.0	26.3	
82 Tetrachloroethene	166	5.691	5.691	0.000	98	67794	20.0	21.7	
83 4-Methyl-2-pentanone (MIBK	43	5.727	5.727	0.000	99	346151	100.0	88.7	
84 trans-1,3-Dichloropropene	75	5.763	5.763	0.000	97	88372	20.0	17.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	5.942	5.935	0.007	94	49844	20.0	19.6	
86 Ethyl methacrylate	69	6.021	6.021	0.000	91	79454	20.0	16.4	
87 Chlorodibromomethane	129	6.135	6.135	0.000	98	55419	20.0	18.0	
88 1,3-Dichloropropane	76	6.257	6.257	0.000	97	106072	20.0	20.3	
89 Ethylene Dibromide	107	6.386	6.386	0.000	99	54831	20.0	18.9	
90 n-Butyl acetate	43	6.730	6.730	0.000	97	95679	20.0	15.9	
91 2-Hexanone	43	6.794	6.794	0.000	98	271678	100.0	99.1	
* 92 Chlorobenzene-d5	117	7.081	7.081	0.000	90	429203	50.0	50.0	
93 Chlorobenzene	112	7.102	7.102	0.000	92	178945	20.0	20.0	
94 Ethylbenzene	106	7.181	7.181	0.000	99	98354	20.0	19.9	
95 1,1,1,2-Tetrachloroethane	131	7.210	7.210	0.000	93	53722	20.0	18.2	
96 m-Xylene & p-Xylene	106	7.403	7.403	0.000	0	114864	20.0	19.2	
97 o-Xylene	106	7.990	7.991	-0.001	93	110415	20.0	18.9	
98 Bromoform	173	8.055	8.055	0.000	93	32493	20.0	16.8	
99 Styrene	104	8.076	8.077	-0.001	94	180325	20.0	18.4	
100 n-Butyl acrylate	73	8.399	8.399	0.000	95	38249	20.0	15.0	
101 Isopropylbenzene	105	8.478	8.478	0.000	96	300660	20.0	19.1	
102 Amyl acetate (mixed isomer	43	8.821	8.814	0.007	89	114274	20.0	15.3	
$ 103 4-Bromofluorobenzene	174	8.850	8.850	0.000	87	156254	50.0	46.6	
104 Bromobenzene	156	8.965	8.965	0.000	96	73598	20.0	18.8	
105 N-Propylbenzene	91	9.108	9.108	0.000	99	365249	20.0	18.1	
106 1,1,2,2-Tetrachloroethane	83	9.258	9.259	-0.001	98	79460	20.0	18.8	
107 2-Chlorotoluene	91	9.287	9.287	0.000	97	254237	20.0	18.5	
108 4-Ethyltoluene	105	9.301	9.302	-0.001	97	306134	20.0	18.7	
109 1,2,3-Trichloropropane	110	9.394	9.387	0.007	98	22684	20.0	18.8	
110 1,3,5-Trimethylbenzene	105	9.459	9.459	0.000	93	249014	20.0	17.8	
111 trans-1,4-Dichloro-2-buten	53	9.523	9.524	-0.001	81	22114	20.0	14.8	
112 4-Chlorotoluene	91	9.552	9.552	0.000	99	234900	20.0	18.6	
113 tert-Butylbenzene	119	9.924	9.925	-0.001	93	207921	20.0	18.1	
115 1,2,4-Trimethylbenzene	105	10.053	10.054	-0.001	96	261300	20.0	18.8	
114 Butyl Methacrylate	87	10.061	10.054	0.007	57	73937	20.0	15.0	
116 sec-Butylbenzene	105	10.218	10.218	0.000	99	325965	20.0	18.2	
117 1,3-Dichlorobenzene	146	10.483	10.483	0.000	94	143962	20.0	19.4	
118 4-Isopropyltoluene	119	10.498	10.498	0.000	97	269900	20.0	18.1	
* 119 1,4-Dichlorobenzene-d4	152	10.612	10.612	0.000	97	239878	50.0	50.0	
120 1,4-Dichlorobenzene	146	10.634	10.641	-0.007	93	151629	20.0	18.9	
138 1,2,3-Trimethylbenzene	105	10.741	10.741	0.000	99	276373	20.0	18.9	
121 2,3-Dihydroindene	117	10.920	10.920	0.000	94	272848	20.0	19.3	
122 Benzyl chloride	126	11.092	11.092	0.000	96	19514	20.0	12.6	
123 p-Diethylbenzene	119	11.106	11.107	-0.001	92	154439	20.0	19.5	
124 n-Butylbenzene	91	11.185	11.185	0.000	98	276013	20.0	19.4	
125 1,2-Dichlorobenzene	146	11.293	11.293	0.000	94	143362	20.0	20.3	
126 1,2,4,5-Tetramethylbenzene	119	12.202	12.195	0.007	98	236477	20.0	18.4	
127 1,2-Dibromo-3-Chloropropan	157	12.346	12.346	0.000	90	12500	20.0	16.3	
128 1,3,5-Trichlorobenzene	180	12.389	12.389	0.000	96	107188	20.0	20.2	
129 1,2,4-Trichlorobenzene	180	13.062	13.062	0.000	94	93159	20.0	19.9	
130 Hexachlorobutadiene	225	13.076	13.069	0.007	91	38253	20.0	16.6	
131 Naphthalene	128	13.356	13.356	0.000	99	198434	20.0	18.7	
132 1,2,3-Trichlorobenzene	180	13.527	13.528	-0.001	94	87767	20.0	20.7	
S 133 1,2-Dichloroethene, Total	100				0		40.0	33.1	
S 134 1,3-Dichloropropene, Total	100				0		40.0	33.8	
S 135 Xylenes, Total	100				0		40.0	38.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 137 Total BTEX	1				0		100.0	96.4	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00266	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00081	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00123	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

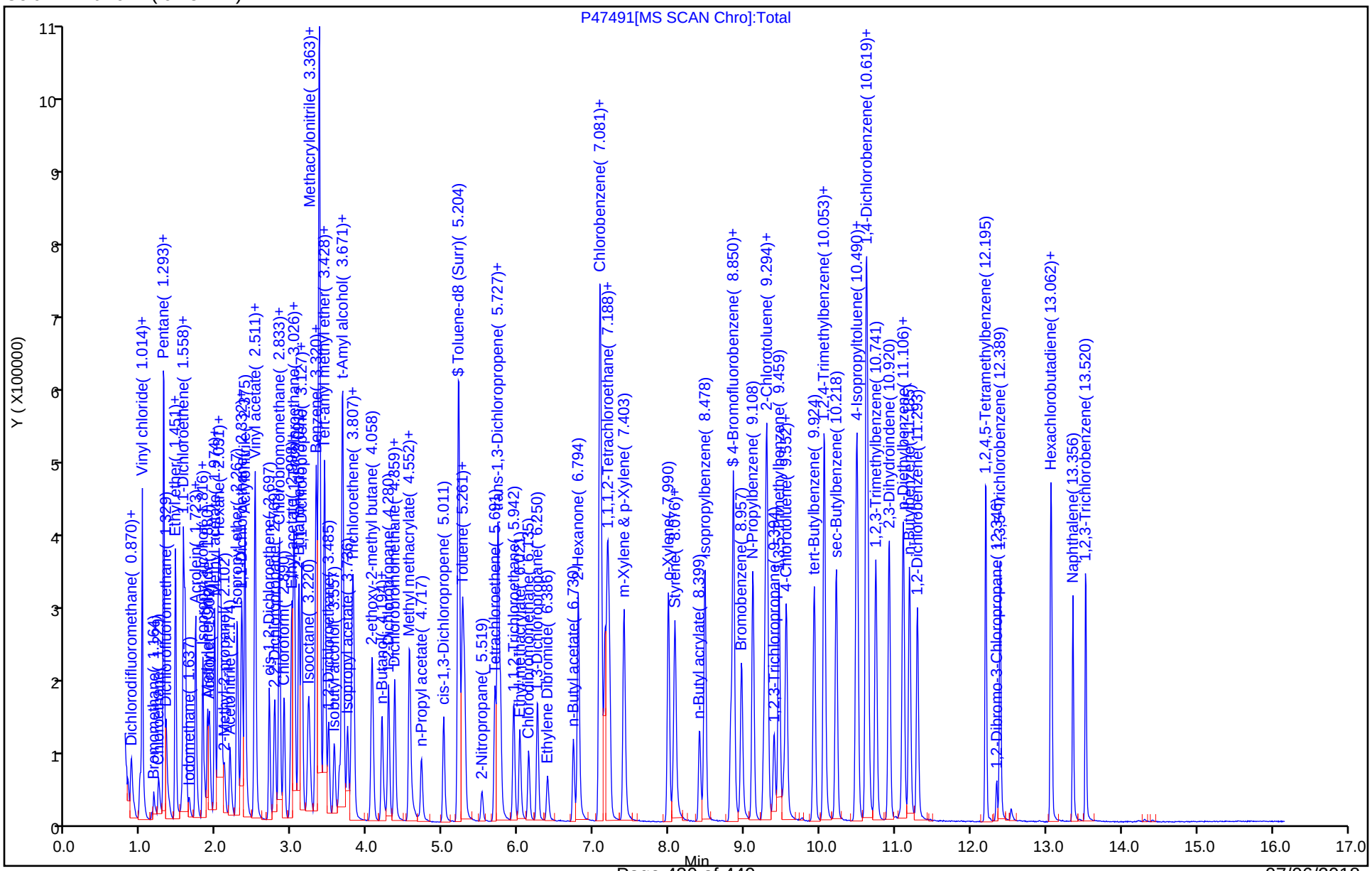
Report Date: 01-Jul-2018 14:19:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47491.D

Injection Date:	30-Jun-2018 22:27:30	Instrument ID:	CVOAMS13	Operator ID:	
Lims ID:	460-159001-B-3 MSD			Worklist Smp#:	19
Client ID:	PDI-12MSD-WG-75-06202018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	18
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

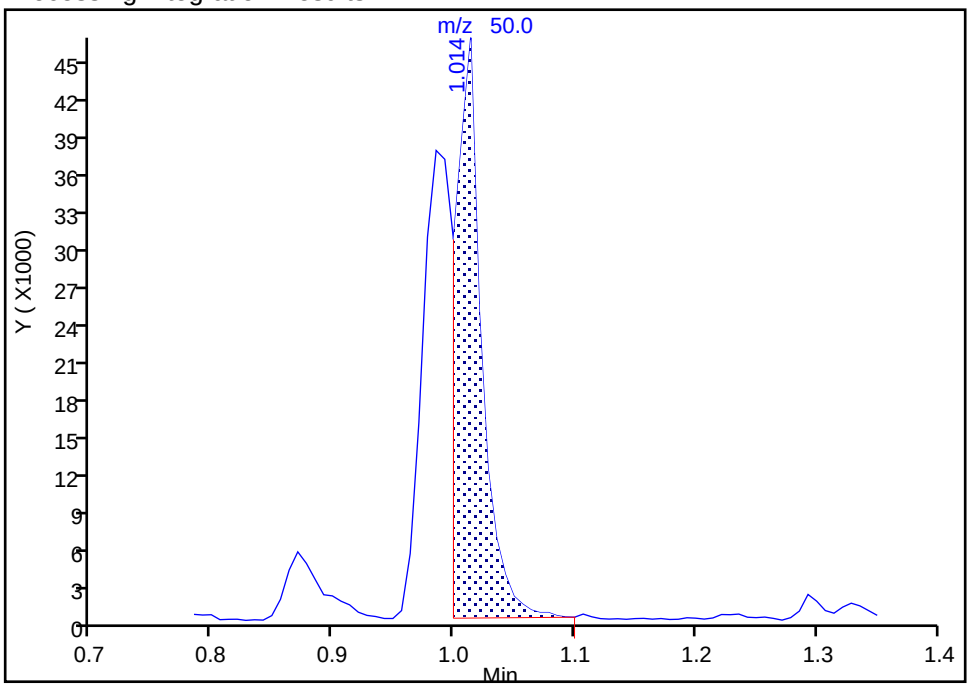
Data File:	\\ChromNA\Edison\ChromData\CVOAMS13\20180630-74647.b\P47491.D				
Injection Date:	30-Jun-2018 22:27:30	Instrument ID:	CVOAMS13		
Lims ID:	460-159001-B-3 MSD				
Client ID:	PDI-12MSD-WG-75-06202018				
Operator ID:		ALS Bottle#:	18	Worklist Smp#:	19
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_13	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

4 Chloromethane, CAS: 74-87-3

Signal: 1

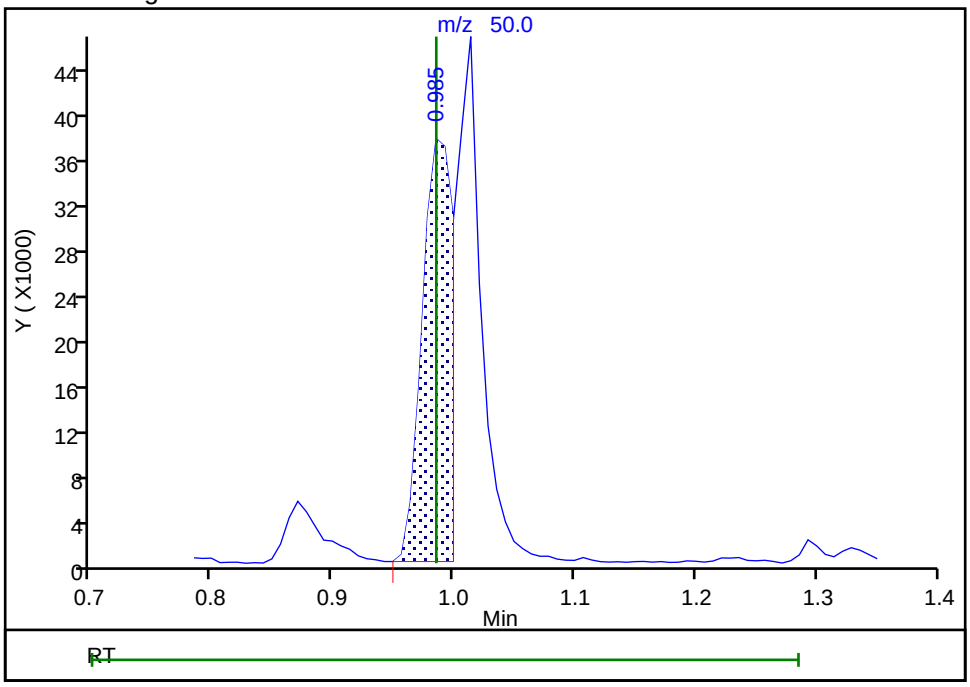
Processing Integration Results

RT: 1.01
Area: 70907
Amount: 17.221845
Amount Units: ug/l



Manual Integration Results

RT: 0.99
Area: 66897
Amount: 16.247899
Amount Units: ug/l



Reviewer: xuyvo, 01-Jul-2018 14:19:15

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 04/20/2018 01:16

Analysis Batch Number: 512577 End Date: 04/20/2018 09:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-512577/1		04/20/2018 01:16	1	P43989.D	Rtx-624 0.25(mm)
STD8 460-512577/3 IC		04/20/2018 02:35	1	P43991.D	Rtx-624 0.25(mm)
STD05 460-512577/4 IC		04/20/2018 03:01	1	P43992.D	Rtx-624 0.25(mm)
STD5 460-512577/6 IC		04/20/2018 03:51	1	P43994.D	Rtx-624 0.25(mm)
STD20 460-512577/7 ICIS		04/20/2018 04:17	1	P43995.D	Rtx-624 0.25(mm)
STD1 460-512577/10 IC		04/20/2018 06:00	1	P43998.D	Rtx-624 0.25(mm)
STD50 460-512577/11 IC		04/20/2018 06:25	1	P43999.D	Rtx-624 0.25(mm)
STD200 460-512577/12 IC		04/20/2018 06:50	1	P44000.D	Rtx-624 0.25(mm)
STD500 460-512577/13 IC		04/20/2018 07:16	1	P44001.D	Rtx-624 0.25(mm)
ICV 460-512577/17		04/20/2018 09:11	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Instrument ID: CVOAMS13 Start Date: 06/30/2018 14:51

Analysis Batch Number: 532483 End Date: 07/01/2018 02:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-532483/1		06/30/2018 14:51	1	P47473.D	Rtx-624 0.25(mm)
CCVIS 460-532483/3		06/30/2018 15:41	1	P47475.D	Rtx-624 0.25(mm)
LCS 460-532483/5		06/30/2018 16:32	1	P47477.D	Rtx-624 0.25(mm)
MB 460-532483/9		06/30/2018 18:13	1	P47481.D	Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 18:38	1		Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 19:04	1		Rtx-624 0.25(mm)
460-159001-1		06/30/2018 19:29	1	P47484.D	Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 19:55	1		Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 20:20	1		Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 20:45	1		Rtx-624 0.25(mm)
460-159001-2		06/30/2018 21:11	1	P47488.D	Rtx-624 0.25(mm)
460-159001-4		06/30/2018 21:36	1	P47489.D	Rtx-624 0.25(mm)
460-159001-3 MS		06/30/2018 22:01	1	P47490.D	Rtx-624 0.25(mm)
460-159001-3 MSD		06/30/2018 22:27	1	P47491.D	Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 23:17	1		Rtx-624 0.25(mm)
460-159001-3		06/30/2018 23:43	1	P47494.D	Rtx-624 0.25(mm)
460-159001-5		07/01/2018 00:08	1	P47495.D	Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 00:33	1		Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 00:58	1		Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 01:24	1		Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 01:49	1		Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 02:14	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Instrument ID: CVOAMS4 Start Date: 05/24/2018 00:37

Analysis Batch Number: 521981 End Date: 05/24/2018 07:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-521981/1		05/24/2018 00:37	1	D50565.D	Rtx-624 0.25(mm)
STD20 460-521981/6 ICIS		05/24/2018 03:17	1	D50570.D	Rtx-624 0.25(mm)
STD50 460-521981/7 IC		05/24/2018 03:41	1	D50571.D	Rtx-624 0.25(mm)
STD200 460-521981/8 IC		05/24/2018 04:06	1	D50572.D	Rtx-624 0.25(mm)
STD500 460-521981/9 IC		05/24/2018 04:30	1	D50573.D	Rtx-624 0.25(mm)
STD1 460-521981/14 IC		05/24/2018 06:33	1	D50578.D	Rtx-624 0.25(mm)
STD5 460-521981/15 IC		05/24/2018 06:58	1	D50579.D	Rtx-624 0.25(mm)
ICV 460-521981/16		05/24/2018 07:22	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Instrument ID: CVOAMS4 Start Date: 06/30/2018 17:25

Analysis Batch Number: 532498 End Date: 07/01/2018 01:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-532498/1		06/30/2018 17:25	1	D52026.D	Rtx-624 0.25(mm)
CCVIS 460-532498/2		06/30/2018 17:34	1	D52027.D	Rtx-624 0.25(mm)
LCS 460-532498/3		06/30/2018 17:59	1	D52028.D	Rtx-624 0.25(mm)
LCSD 460-532498/4		06/30/2018 18:23	1	D52029.D	Rtx-624 0.25(mm)
MB 460-532498/13		06/30/2018 22:07	1	D52038.D	Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 22:57	1		Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 23:21	1		Rtx-624 0.25(mm)
ZZZZZ		06/30/2018 23:47	1		Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 00:11	1		Rtx-624 0.25(mm)
460-159001-7		07/01/2018 01:03	1	D52045.D	Rtx-624 0.25(mm)
460-159001-6		07/01/2018 01:28	1	D52046.D	Rtx-624 0.25(mm)
ZZZZZ		07/01/2018 01:54	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Batch Number: 530346 Batch Start Date: 06/23/18 06:42 Batch Analyst: Morrison, Derek

Batch Method: 5035 Batch End Date: 06/23/18 06:52

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-159001-B-6	PDI-13-SO-53-062 12018	5035, 8260C	T	+030.814 g	38.33 g	7.516 g	5 mL		
460-159001-B-7	PDI-113-SO-53-06 212018	5035, 8260C	T	+030.700 g	38.26 g	7.56 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Batch Number: 532483 Batch Start Date: 06/30/18 14:51 Batch Analyst: Sarmiento, Daniel

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00123	8260MIX1COMB 00081	8260SURR250 00177	ACROLEIN W 00078
BFB 460-532483/1		8260C		5 mL	5 mL				
CCVIS 460-532483/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-532483/5		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-532483/9		8260C		5 mL	5 mL	1 uL		1 uL	
460-159001-A-1	PDI-TB-06202018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159001-A-2	PDI-FB-06202018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159001-A-4	PDI-FB-06212018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159001-B-3 MS	PDI-12MS-WG-75-06202018	8260C	T	5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
460-159001-B-3 MSD	PDI-12MSD-WG-75-06202018	8260C	T	5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
460-159001-B-3	PDI-12-WG-75-06202018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159001-B-5	PDI-13-WG-75-06212018	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00266				
BFB 460-532483/1		8260C		1 uL					
CCVIS 460-532483/3		8260C			20 uL				
LCS 460-532483/5		8260C			20 uL				
MB 460-532483/9		8260C							
460-159001-A-1	PDI-TB-06202018	8260C	T						
460-159001-A-2	PDI-FB-06202018	8260C	T						
460-159001-A-4	PDI-FB-06212018	8260C	T						
460-159001-B-3 MS	PDI-12MS-WG-75-06202018	8260C	T		20 uL				
460-159001-B-3 MSD	PDI-12MSD-WG-75-06202018	8260C	T		20 uL				
460-159001-B-3	PDI-12-WG-75-06202018	8260C	T						
460-159001-B-5	PDI-13-WG-75-06212018	8260C	T						

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Batch Number: 532483 Batch Start Date: 06/30/18 14:51 Batch Analyst: Sarmiento, Daniel

Batch Method: 8260C Batch End Date:

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159001-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-13-SO-53-06212018	460-159001-6
PDI-113-SO-53-06212018	460-159001-7

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159001-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159001-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 06/29/2018 07:41 End Date: 06/29/2018 07:41

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			07:41																					
460-159001-6	1	T	07:41	X	X																			
460-159001-7	1	T	07:41	X	X																			
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					
ZZZZZZ			07:41																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159001-1

SDG No.:

Batch Number: 532088 Batch Start Date: 06/29/18 07:41 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-159001-D-6	PDI-13-SO-53-062 12018	Moisture	T	2	1.04 g	9.05 g	7.56 g		
460-159001-D-7	PDI-113-SO-53-06 212018	Moisture	T	3	1.03 g	9.63 g	8.20 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	06/29/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	07:59
Date samples were removed from oven	06/30/2018
Oven Temp Out	104 Degrees C
Time Samples were removed from oven	05:13
Oven ID	3
Thermometer ID	146502
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	104 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

NYSC 460501

Frank Robinson

07/06/2018

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159001
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-TB-06202018	6/20/18	—	—	Water			✓					1	Trip Blank
POI-FB-06202018	6/20/18	1400	—	Water			✓					2	Field Blank
POI-12-WG-75-06202018	6/20/18	1430	G	Water			✓	✓				3	
POI-12MS-WG-75-06202018	6/20/18	1430	G	Water			✓	✓				3	MS
POI-12MSD-WG-75-06202018	6/20/18	1430	G	Water			✓	✓				3	MSD
POI-FB-06212018	6/21/18	1235	—	Water			✓					4	Field Blank
POI-13-WG-75-06212018	6/21/18	1315	G	Water			✓					5	
				Water									
				Water									
				Water									
				Water									

460-159001 Chain of Custody

Page 446 of 449

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/21/18 / 1220	Company	Received by:	Date/Time: 6/21/18 / 1350	Company TA		
Relinquished by:	Date/Time: 6/21/18 / 1700	Company	Received by:	Date/Time: 6/21/18 1710	Company TA		
Relinquished by:	Date/Time: 6/21/18 1720	Company TA	Received by: —	Date/Time: 6/22/18 0100	Company C-A		
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.: 6/4/18	Cooler Temperature(s) °C and Other Remarks:		6/21/18 2000	TA CDM		

2.3/2.3 TRK 4 NOCS

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

07/06/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 159001
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Day			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
POI-13-50-53-06212018	6/21/18	1220	G	Solid			✓						6	
POI-113-50-53-0621 2018	6/21/18	1230	G	Solid			✓						7	TCL/2018
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by: Frank Robinson	6/21/18 1320			6/21/18 1320	TA
Relinquished by:	6/21/18 1700	TA		6/21/18 1700	TA
Relinquished by:	6/21/18 1710	TA		6/21/18 2000	TA

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.: 6/21/18 2000

Cooler Temperature(s) °C and Other Remarks: TA Recd 6/21/18 2000

2.3 / 2.3 tr#'s (NOC)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159001

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.3 °C	1.8 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/2/18

07/06/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159001-1

Login Number: 159001
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159001-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/6/2018 9:07:32 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 15
QC Sample Results 16
QC Association Summary 25
Lab Chronicle 26
Certification Summary 28
Method Summary 29
Sample Summary 30
Chain of Custody 31
Receipt Checklists 34

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-159001-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159001-1

Receipt
The samples were received on 6/21/2018 8:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) associated with batch 460-532483 recovered outside acceptance criteria, low biased, for Bromomethane, Chloromethane and cis-1,2-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method 8260C: The laboratory control sample (LCS) for analytical batch 460-532483 recovered outside control limits for the following analyte: cis-1,2-Dichloroethene. This analyte was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-TB-06202018 — Lab Sample ID: 460-159001-1

No Detections.

Client Sample ID: PDI-FB-06202018 — Lab Sample ID: 460-159001-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.7		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.7		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-12-WG-75-06202018 — Lab Sample ID: 460-159001-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.90	J	1.0	0.54	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.35	J	1.0	0.28	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.43	J	1.0	0.25	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-FB-06212018 — Lab Sample ID: 460-159001-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.5		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	14		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	5.1		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-13-WG-75-06212018 — Lab Sample ID: 460-159001-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1		5.0	5.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.26	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	8.5		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-13-SO-53-06212018 — Lab Sample ID: 460-159001-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.3	J	4.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Acetone	15		4.1	3.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.1		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.52	J	0.82	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.80	J	0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	27		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.36	J	1.6	0.21	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-113-SO-53-06212018 — Lab Sample ID: 460-159001-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	11		4.0	3.0	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.1		0.79	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.56	J	0.79	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.90		0.79	0.11	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	29		0.79	0.11	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.53	J	1.6	0.20	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-TB-06202018
Date Collected: 06/20/18 00:00
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 19:29	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 19:29	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 19:29	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 19:29	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 19:29	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 19:29	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 19:29	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 19:29	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 19:29	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 19:29	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 19:29	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 19:29	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 19:29	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 19:29	1
Acetone	ND		5.0	5.0	ug/L			06/30/18 19:29	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 19:29	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 19:29	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 19:29	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 19:29	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 19:29	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 19:29	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 19:29	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 19:29	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 19:29	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 19:29	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 19:29	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 19:29	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 19:29	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 19:29	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 19:29	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 19:29	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 19:29	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 19:29	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 19:29	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 19:29	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 19:29	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 19:29	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 19:29	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 19:29	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 19:29	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 19:29	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 19:29	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 19:29	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 19:29	1

Client Sample ID: PDI-TB-06202018

Lab Sample ID: 460-159001-1

Date Collected: 06/20/18 00:00

Matrix: Water

Date Received: 06/21/18 20:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*06/30/18 19:29*	*1*
4-Bromofluorobenzene	*86*		*77 - 124*		*06/30/18 19:29*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/30/18 19:29*	*1*
Dibromofluoromethane (Surr)	*88*		*72 - 131*		*06/30/18 19:29*	*1*

Client Sample ID: PDI-FB-06202018

Lab Sample ID: 460-159001-2

Date Collected: 06/20/18 14:00

Matrix: Water

Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 21:11	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 21:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 21:11	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 21:11	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 21:11	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 21:11	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 21:11	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:11	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 21:11	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 21:11	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 21:11	1
2-Butanone (MEK)	**7.7**		5.0	1.9	ug/L			06/30/18 21:11	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 21:11	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 21:11	1
Acetone	**12**		5.0	5.0	ug/L			06/30/18 21:11	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 21:11	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 21:11	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 21:11	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 21:11	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 21:11	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 21:11	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 21:11	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 21:11	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 21:11	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 21:11	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 21:11	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 21:11	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 21:11	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 21:11	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 21:11	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 21:11	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 21:11	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 21:11	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 21:11	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 21:11	1
Methylene Chloride	**5.7**		1.0	0.32	ug/L			06/30/18 21:11	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 21:11	1

Client Sample ID: PDI-FB-06202018

Lab Sample ID: 460-159001-2
Date Collected: 06/20/18 14:00
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			06/30/18 21:11	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 21:11	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 21:11	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 21:11	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 21:11	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 21:11	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 21:11	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 21:11	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 21:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*87*		*74 - 132*		*06/30/18 21:11*	*1*
4-Bromofluorobenzene	*79*		*77 - 124*		*06/30/18 21:11*	*1*
Toluene-d8 (Surr)	*86*		*80 - 120*		*06/30/18 21:11*	*1*
Dibromofluoromethane (Surr)	*85*		*72 - 131*		*06/30/18 21:11*	*1*

Client Sample ID: PDI-12-WG-75-06202018

Lab Sample ID: 460-159001-3
Date Collected: 06/20/18 14:30
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 23:43	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 23:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 23:43	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 23:43	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 23:43	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 23:43	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 23:43	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 23:43	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 23:43	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 23:43	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 23:43	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 23:43	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 23:43	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 23:43	1
Acetone	**15**		5.0	5.0	ug/L			06/30/18 23:43	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 23:43	1
Bromoform	**0.90**	**J**	1.0	0.54	ug/L			06/30/18 23:43	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 23:43	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 23:43	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 23:43	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 23:43	1
Dibromochloromethane	**0.35**	**J**	1.0	0.28	ug/L			06/30/18 23:43	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 23:43	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 23:43	1
cis-1,2-Dichloroethene	ND	* F1	1.0	0.22	ug/L			06/30/18 23:43	1

Client Sample ID: PDI-12-WG-75-06202018

Lab Sample ID: 460-159001-3

Date Collected: 06/20/18 14:30

Matrix: Water

Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 23:43	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 23:43	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 23:43	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 23:43	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 23:43	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 23:43	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 23:43	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 23:43	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 23:43	1
Tetrachloroethene	**0.43**	**J**	1.0	0.25	ug/L			06/30/18 23:43	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 23:43	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 23:43	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 23:43	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 23:43	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 23:43	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 23:43	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 23:43	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 23:43	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*		*06/30/18 23:43*	*1*
4-Bromofluorobenzene	*83*		*77 - 124*		*06/30/18 23:43*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*06/30/18 23:43*	*1*
Dibromofluoromethane (Surr)	*88*		*72 - 131*		*06/30/18 23:43*	*1*

Client Sample ID: PDI-FB-06212018

Lab Sample ID: 460-159001-4

Date Collected: 06/21/18 12:35

Matrix: Water

Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 21:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 21:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 21:36	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 21:36	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 21:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 21:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 21:36	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 21:36	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 21:36	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 21:36	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 21:36	1
2-Butanone (MEK)	**7.5**		5.0	1.9	ug/L			06/30/18 21:36	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 21:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 21:36	1
Acetone	**14**		5.0	5.0	ug/L			06/30/18 21:36	1

Client Sample ID: PDI-FB-06212018

Lab Sample ID: 460-159001-4
Date Collected: 06/21/18 12:35
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			06/30/18 21:36	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 21:36	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 21:36	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 21:36	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 21:36	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 21:36	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 21:36	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 21:36	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 21:36	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 21:36	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			06/30/18 21:36	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 21:36	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 21:36	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 21:36	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 21:36	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 21:36	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 21:36	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 21:36	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 21:36	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 21:36	1
Methylene Chloride	**5.1**		1.0	0.32	ug/L			06/30/18 21:36	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 21:36	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 21:36	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 21:36	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 21:36	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 21:36	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 21:36	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 21:36	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 21:36	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 21:36	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*88*		*74 - 132*		*06/30/18 21:36*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*06/30/18 21:36*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*		*06/30/18 21:36*	*1*
Dibromofluoromethane (Surr)	*90*		*72 - 131*		*06/30/18 21:36*	*1*

Client Sample ID: PDI-13-WG-75-06212018

Lab Sample ID: 460-159001-5
Date Collected: 06/21/18 13:15
Matrix: Water
Date Received: 06/21/18 20:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/01/18 00:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/01/18 00:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/01/18 00:08	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/01/18 00:08	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/01/18 00:08	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-13-WG-75-06212018
Date Collected: 06/21/18 13:15
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-5
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/01/18 00:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/01/18 00:08	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/01/18 00:08	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/01/18 00:08	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/01/18 00:08	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/01/18 00:08	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/01/18 00:08	1
2-Hexanone	ND		5.0	2.9	ug/L			07/01/18 00:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/01/18 00:08	1
Acetone	**7.1**		5.0	5.0	ug/L			07/01/18 00:08	1
Benzene	ND		1.0	0.43	ug/L			07/01/18 00:08	1
Bromoform	ND		1.0	0.54	ug/L			07/01/18 00:08	1
Bromomethane	ND		1.0	1.0	ug/L			07/01/18 00:08	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/01/18 00:08	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/01/18 00:08	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/01/18 00:08	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/01/18 00:08	1
Chloroethane	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Chloroform	ND		1.0	0.33	ug/L			07/01/18 00:08	1
Chloromethane	ND		1.0	0.14	ug/L			07/01/18 00:08	1
cis-1,2-Dichloroethene	ND	*	1.0	0.22	ug/L			07/01/18 00:08	1
Cyclohexane	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/01/18 00:08	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/01/18 00:08	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/01/18 00:08	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/01/18 00:08	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/01/18 00:08	1
Methyl acetate	ND		5.0	0.31	ug/L			07/01/18 00:08	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/01/18 00:08	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/01/18 00:08	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/01/18 00:08	1
Tetrachloroethene	**0.26**	**J**	1.0	0.25	ug/L			07/01/18 00:08	1
Toluene	ND		1.0	0.38	ug/L			07/01/18 00:08	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/01/18 00:08	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/01/18 00:08	1
Trichloroethene	**8.5**		1.0	0.31	ug/L			07/01/18 00:08	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/01/18 00:08	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/01/18 00:08	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/01/18 00:08	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/01/18 00:08	1
Styrene	ND		1.0	0.42	ug/L			07/01/18 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*		*07/01/18 00:08*	*1*
4-Bromofluorobenzene	*84*		*77 - 124*		*07/01/18 00:08*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*07/01/18 00:08*	*1*
Dibromofluoromethane (Surr)	*85*		*72 - 131*		*07/01/18 00:08*	*1*

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-13-SO-53-06212018
Date Collected: 06/21/18 12:20
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-6
Matrix: Solid
Percent Solids: 81.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.82	0.19	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2,2-Tetrachloroethane	ND		0.82	0.17	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1,2-Trichloroethane	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1-Dichloroethane	ND		0.82	0.17	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,1-Dichloroethene	ND		0.82	0.18	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2,4-Trichlorobenzene	ND		0.82	0.075	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dibromo-3-Chloropropane	ND		0.82	0.38	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichlorobenzene	ND		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichloroethane	ND		0.82	0.24	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dichloropropane	ND		0.82	0.35	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,3-Dichlorobenzene	ND		0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,4-Dichlorobenzene	ND		0.82	0.082	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
2-Butanone (MEK)	**2.3**	**J**	4.1	0.91	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
2-Hexanone	ND		4.1	0.64	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.54	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Acetone	**15**		4.1	3.1	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Benzene	ND		0.82	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromoform	ND		0.82	0.35	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromomethane	ND		0.82	0.39	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Carbon disulfide	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Carbon tetrachloride	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chlorobenzene	ND		0.82	0.14	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Dibromochloromethane	ND		0.82	0.16	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloroethane	ND		0.82	0.43	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloroform	ND		0.82	0.26	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Chloromethane	ND		0.82	0.36	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
cis-1,2-Dichloroethene	**1.1**		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Cyclohexane	ND		0.82	0.18	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Bromodichloromethane	ND		0.82	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Dichlorodifluoromethane	ND		0.82	0.28	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Ethylbenzene	ND		0.82	0.16	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
1,2-Dibromoethane	ND		0.82	0.15	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Isopropylbenzene	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methyl acetate	ND		4.1	3.5	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methyl tert-butyl ether	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methylcyclohexane	ND		0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Methylene Chloride	**0.52**	**J**	0.82	0.13	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Tetrachloroethene	**0.80**	**J**	0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Toluene	ND		0.82	0.51	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
trans-1,2-Dichloroethene	ND		0.82	0.20	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
trans-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Trichloroethene	**27**		0.82	0.12	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Trichlorofluoromethane	ND		0.82	0.33	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Vinyl chloride	ND		0.82	0.45	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Xylenes, Total	**0.36**	**J**	1.6	0.21	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
cis-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1
Styrene	ND		0.82	0.10	ug/Kg	☼	06/23/18 06:48	07/01/18 01:28	1

Client Sample ID: PDI-13-SO-53-06212018

Lab Sample ID: 460-159001-6
Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 81.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*78 - 135*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
4-Bromofluorobenzene	*88*		*67 - 126*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*06/23/18 06:48*	*07/01/18 01:28*	*1*
Dibromofluoromethane (Surr)	*103*		*61 - 149*	*06/23/18 06:48*	*07/01/18 01:28*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.6**		1.0	1.0	%			06/29/18 07:41	1
Percent Solids	**81.4**		1.0	1.0	%			06/29/18 07:41	1

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7
Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2,2-Tetrachloroethane	ND		0.79	0.17	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.79	0.24	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1,2-Trichloroethane	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1-Dichloroethane	ND		0.79	0.16	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,1-Dichloroethene	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2,4-Trichlorobenzene	ND		0.79	0.073	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dibromo-3-Chloropropane	ND		0.79	0.36	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichlorobenzene	ND		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichloroethane	ND		0.79	0.23	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dichloropropane	ND		0.79	0.34	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,3-Dichlorobenzene	ND		0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,4-Dichlorobenzene	ND		0.79	0.079	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
2-Butanone (MEK)	ND		4.0	0.88	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
2-Hexanone	ND		4.0	0.62	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
4-Methyl-2-pentanone (MIBK)	ND		4.0	0.53	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Acetone	**11**		4.0	3.0	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Benzene	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromoform	ND		0.79	0.34	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromomethane	ND		0.79	0.38	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Carbon disulfide	ND		0.79	0.21	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Carbon tetrachloride	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chlorobenzene	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Dibromochloromethane	ND		0.79	0.15	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloroethane	ND		0.79	0.41	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloroform	ND		0.79	0.25	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Chloromethane	ND		0.79	0.35	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
cis-1,2-Dichloroethene	**1.1**		0.79	0.12	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Cyclohexane	ND		0.79	0.18	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Bromodichloromethane	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Dichlorodifluoromethane	ND		0.79	0.27	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Ethylbenzene	ND		0.79	0.16	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
1,2-Dibromoethane	ND		0.79	0.14	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Isopropylbenzene	ND		0.79	0.10	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1

Client Sample ID: PDI-113-SO-53-06212018
Date Collected: 06/21/18 12:30
Date Received: 06/21/18 20:00

Lab Sample ID: 460-159001-7
Matrix: Solid
Percent Solids: 83.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	ND		4.0	3.4	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methyl tert-butyl ether	ND		0.79	0.099	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methylcyclohexane	ND		0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Methylene Chloride	**0.56**	**J**	0.79	0.13	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Tetrachloroethene	**0.90**		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Toluene	ND		0.79	0.50	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
trans-1,2-Dichloroethene	ND		0.79	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
trans-1,3-Dichloropropene	ND		0.79	0.21	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Trichloroethene	**29**		0.79	0.11	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Trichlorofluoromethane	ND		0.79	0.32	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Vinyl chloride	ND		0.79	0.43	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Xylenes, Total	**0.53**	**J**	1.6	0.20	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
cis-1,3-Dichloropropene	ND		0.79	0.22	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1
Styrene	ND		0.79	0.098	ug/Kg	☼	06/23/18 06:49	07/01/18 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 135*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
4-Bromofluorobenzene	*86*		*67 - 126*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
Toluene-d8 (Surr)	*100*		*73 - 121*	*06/23/18 06:49*	*07/01/18 01:03*	*1*
Dibromofluoromethane (Surr)	*103*		*61 - 149*	*06/23/18 06:49*	*07/01/18 01:03*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**16.6**		1.0	1.0	%			06/29/18 07:41	1
Percent Solids	**83.4**		1.0	1.0	%			06/29/18 07:41	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159001-6	PDI-13-SO-53-06212018	100	88	100	103
460-159001-7	PDI-113-SO-53-06212018	99	86	100	103
LCS 460-532498/3	Lab Control Sample	92	91	103	98
LCSD 460-532498/4	Lab Control Sample Dup	94	89	103	101
MB 460-532498/13	Method Blank	94	89	105	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159001-1	PDI-TB-06202018	87	86	97	88
460-159001-2	PDI-FB-06202018	87	79	86	85
460-159001-3	PDI-12-WG-75-06202018	83	83	89	88
460-159001-3 MS	PDI-12MS-WG-75-06202018	92	99	97	89
460-159001-3 MSD	PDI-12MSD-WG-75-06202018	83	93	89	83
460-159001-4	PDI-FB-06212018	88	89	97	90
460-159001-5	PDI-13-WG-75-06212018	83	84	91	85
LCS 460-532483/5	Lab Control Sample	80	96	89	82
MB 460-532483/9	Method Blank	85	86	92	87

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-532483/9
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			06/30/18 18:13	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			06/30/18 18:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			06/30/18 18:13	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			06/30/18 18:13	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			06/30/18 18:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			06/30/18 18:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			06/30/18 18:13	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			06/30/18 18:13	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			06/30/18 18:13	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			06/30/18 18:13	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			06/30/18 18:13	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			06/30/18 18:13	1
2-Hexanone	ND		5.0	2.9	ug/L			06/30/18 18:13	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			06/30/18 18:13	1
Acetone	ND		5.0	5.0	ug/L			06/30/18 18:13	1
Benzene	ND		1.0	0.43	ug/L			06/30/18 18:13	1
Bromoform	ND		1.0	0.54	ug/L			06/30/18 18:13	1
Bromomethane	ND		1.0	1.0	ug/L			06/30/18 18:13	1
Carbon disulfide	ND		1.0	0.16	ug/L			06/30/18 18:13	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			06/30/18 18:13	1
Chlorobenzene	ND		1.0	0.38	ug/L			06/30/18 18:13	1
Dibromochloromethane	ND		1.0	0.28	ug/L			06/30/18 18:13	1
Chloroethane	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Chloroform	ND		1.0	0.33	ug/L			06/30/18 18:13	1
Chloromethane	ND		1.0	0.14	ug/L			06/30/18 18:13	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			06/30/18 18:13	1
Cyclohexane	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Bromodichloromethane	ND		1.0	0.34	ug/L			06/30/18 18:13	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			06/30/18 18:13	1
Ethylbenzene	ND		1.0	0.30	ug/L			06/30/18 18:13	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			06/30/18 18:13	1
Isopropylbenzene	ND		1.0	0.34	ug/L			06/30/18 18:13	1
Methyl acetate	ND		5.0	0.31	ug/L			06/30/18 18:13	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			06/30/18 18:13	1
Methylcyclohexane	ND		1.0	0.26	ug/L			06/30/18 18:13	1
Methylene Chloride	ND		1.0	0.32	ug/L			06/30/18 18:13	1
Tetrachloroethene	ND		1.0	0.25	ug/L			06/30/18 18:13	1
Toluene	ND		1.0	0.38	ug/L			06/30/18 18:13	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			06/30/18 18:13	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			06/30/18 18:13	1
Trichloroethene	ND		1.0	0.31	ug/L			06/30/18 18:13	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			06/30/18 18:13	1
Vinyl chloride	ND		1.0	0.17	ug/L			06/30/18 18:13	1
Xylenes, Total	ND		2.0	0.65	ug/L			06/30/18 18:13	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			06/30/18 18:13	1
Styrene	ND		1.0	0.42	ug/L			06/30/18 18:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*85*		*74 - 132*		*06/30/18 18:13*	*1*
4-Bromofluorobenzene	*86*		*77 - 124*		*06/30/18 18:13*	*1*
Toluene-d8 (Surr)	*92*		*80 - 120*		*06/30/18 18:13*	*1*
Dibromofluoromethane (Surr)	*87*		*72 - 131*		*06/30/18 18:13*	*1*

Lab Sample ID: LCS 460-532483/5
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	15.6		ug/L		78	75 - 125
1,1,2,2-Tetrachloroethane	20.0	17.6		ug/L		88	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.4		ug/L		87	59 - 150
1,1,2-Trichloroethane	20.0	19.4		ug/L		97	78 - 120
1,1-Dichloroethane	20.0	17.2		ug/L		86	77 - 123
1,1-Dichloroethene	20.0	16.2		ug/L		81	74 - 123
1,2,4-Trichlorobenzene	20.0	21.1		ug/L		105	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.5		ug/L		88	55 - 134
1,2-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
1,2-Dichloroethane	20.0	16.1		ug/L		80	76 - 121
1,2-Dichloropropane	20.0	17.6		ug/L		88	77 - 123
1,3-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.3		ug/L		92	80 - 120
2-Butanone (MEK)	100	89.5		ug/L		90	64 - 120
2-Hexanone	100	93.3		ug/L		93	71 - 125
4-Methyl-2-pentanone (MIBK)	100	94.5		ug/L		95	78 - 124
Acetone	100	86.5		ug/L		86	39 - 150
Benzene	20.0	18.9		ug/L		94	77 - 121
Bromoform	20.0	16.4		ug/L		82	53 - 120
Bromomethane	20.0	9.45		ug/L		47	10 - 150
Carbon disulfide	20.0	15.0		ug/L		75	69 - 133
Carbon tetrachloride	20.0	15.7		ug/L		79	70 - 132
Chlorobenzene	20.0	19.7		ug/L		99	80 - 120
Dibromochloromethane	20.0	17.6		ug/L		88	73 - 120
Chloroethane	20.0	15.9		ug/L		80	52 - 150
Chloroform	20.0	16.5		ug/L		82	80 - 120
Chloromethane	20.0	14.0		ug/L		70	56 - 131
cis-1,2-Dichloroethene	20.0	15.7	*	ug/L		78	80 - 120
Cyclohexane	20.0	16.1		ug/L		80	56 - 150
Bromodichloromethane	20.0	15.8		ug/L		79	76 - 120
Dichlorodifluoromethane	20.0	17.7		ug/L		89	50 - 131
Ethylbenzene	20.0	19.2		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	18.7		ug/L		94	80 - 120
Isopropylbenzene	20.0	18.6		ug/L		93	80 - 123
Methyl acetate	40.0	33.1		ug/L		83	66 - 144
Methyl tert-butyl ether	20.0	16.6		ug/L		83	79 - 122
Methylcyclohexane	20.0	16.3		ug/L		82	61 - 145
Methylene Chloride	20.0	16.5		ug/L		82	77 - 123
Tetrachloroethene	20.0	20.3		ug/L		102	78 - 122
Toluene	20.0	18.3		ug/L		91	80 - 120
trans-1,2-Dichloroethene	20.0	16.0		ug/L		80	79 - 120
trans-1,3-Dichloropropene	20.0	17.4		ug/L		87	76 - 120
Trichloroethene	20.0	17.5		ug/L		88	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532483/5
Matrix: Water
Analysis Batch: 532483

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Trichlorofluoromethane			20.0	18.5		ug/L		93	71 - 143		
Vinyl chloride			20.0	17.6		ug/L		88	62 - 138		
cis-1,3-Dichloropropene			20.0	17.5		ug/L		88	77 - 120		
Styrene			20.0	18.3		ug/L		92	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*80*		*74 - 132*
4-Bromofluorobenzene	*96*		*77 - 124*
Toluene-d8 (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*82*		*72 - 131*

Lab Sample ID: 460-159001-3 MS
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MS-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,1,1-Trichloroethane	ND		20.0	16.5		ug/L		82	75 - 125		
1,1,2,2-Tetrachloroethane	ND		20.0	18.9		ug/L		95	74 - 120		
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	18.4		ug/L		92	59 - 150		
1,1,2-Trichloroethane	ND		20.0	19.7		ug/L		99	78 - 120		
1,1-Dichloroethane	ND		20.0	19.1		ug/L		96	77 - 123		
1,1-Dichloroethene	ND		20.0	17.0		ug/L		85	74 - 123		
1,2,4-Trichlorobenzene	ND		20.0	19.2		ug/L		96	80 - 124		
1,2-Dibromo-3-Chloropropane	ND		20.0	16.3		ug/L		82	55 - 134		
1,2-Dichlorobenzene	ND		20.0	19.4		ug/L		97	80 - 120		
1,2-Dichloroethane	ND		20.0	17.3		ug/L		87	76 - 121		
1,2-Dichloropropane	ND		20.0	17.6		ug/L		88	77 - 123		
1,3-Dichlorobenzene	ND		20.0	18.9		ug/L		94	80 - 120		
1,4-Dichlorobenzene	ND		20.0	18.5		ug/L		93	80 - 120		
2-Butanone (MEK)	ND		100	84.0		ug/L		84	64 - 120		
2-Hexanone	ND		100	101		ug/L		101	71 - 125		
4-Methyl-2-pentanone (MIBK)	ND		100	96.6		ug/L		97	78 - 124		
Acetone	15		100	106		ug/L		91	39 - 150		
Benzene	ND		20.0	19.8		ug/L		99	77 - 121		
Bromoform	0.90	J	20.0	18.4		ug/L		88	53 - 120		
Bromomethane	ND		20.0	7.76		ug/L		39	10 - 150		
Carbon disulfide	ND		20.0	16.0		ug/L		80	69 - 133		
Carbon tetrachloride	ND		20.0	15.9		ug/L		80	70 - 132		
Chlorobenzene	ND		20.0	19.9		ug/L		99	80 - 120		
Dibromochloromethane	0.35	J	20.0	17.8		ug/L		87	73 - 120		
Chloroethane	ND		20.0	19.8		ug/L		99	52 - 150		
Chloroform	ND		20.0	17.4		ug/L		87	80 - 120		
Chloromethane	ND		20.0	15.3		ug/L		76	56 - 131		
cis-1,2-Dichloroethene	ND	* F1	20.0	15.6	F1	ug/L		78	80 - 120		
Cyclohexane	ND		20.0	17.0		ug/L		85	56 - 150		
Bromodichloromethane	ND		20.0	17.0		ug/L		85	76 - 120		
Dichlorodifluoromethane	ND		20.0	18.2		ug/L		91	50 - 131		

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-159001-3 MS
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MS-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	ND		20.0	19.6		ug/L		98	80 - 120
1,2-Dibromoethane	ND		20.0	19.3		ug/L		96	80 - 120
Isopropylbenzene	ND		20.0	19.8		ug/L		99	80 - 123
Methyl acetate	ND		40.0	36.6		ug/L		91	66 - 144
Methyl tert-butyl ether	ND		20.0	17.2		ug/L		86	79 - 122
Methylcyclohexane	ND		20.0	16.7		ug/L		83	61 - 145
Methylene Chloride	ND		20.0	18.4		ug/L		92	77 - 123
Tetrachloroethene	0.43	J	20.0	19.9		ug/L		97	78 - 122
Toluene	ND		20.0	18.9		ug/L		95	80 - 120
trans-1,2-Dichloroethene	ND		20.0	17.1		ug/L		86	79 - 120
trans-1,3-Dichloropropene	ND		20.0	18.0		ug/L		90	76 - 120
Trichloroethene	ND		20.0	17.6		ug/L		88	77 - 120
Trichlorofluoromethane	ND		20.0	20.6		ug/L		103	71 - 143
Vinyl chloride	ND		20.0	18.5		ug/L		93	62 - 138
cis-1,3-Dichloropropene	ND		20.0	16.8		ug/L		84	77 - 120
Styrene	ND		20.0	18.3		ug/L		92	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*99*		*77 - 124*
Toluene-d8 (Surr)	*97*		*80 - 120*
Dibromofluoromethane (Surr)	*89*		*72 - 131*

Lab Sample ID: 460-159001-3 MSD
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MSD-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		20.0	16.5		ug/L		83	75 - 125	0	30
1,1,2,2-Tetrachloroethane	ND		20.0	18.8		ug/L		94	74 - 120	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		20.0	19.4		ug/L		97	59 - 150	5	30
1,1,2-Trichloroethane	ND		20.0	19.6		ug/L		98	78 - 120	0	30
1,1-Dichloroethane	ND		20.0	19.5		ug/L		98	77 - 123	2	30
1,1-Dichloroethene	ND		20.0	18.0		ug/L		90	74 - 123	5	30
1,2,4-Trichlorobenzene	ND		20.0	19.9		ug/L		99	80 - 124	3	30
1,2-Dibromo-3-Chloropropane	ND		20.0	16.3		ug/L		82	55 - 134	0	30
1,2-Dichlorobenzene	ND		20.0	20.3		ug/L		101	80 - 120	4	30
1,2-Dichloroethane	ND		20.0	17.2		ug/L		86	76 - 121	0	30
1,2-Dichloropropane	ND		20.0	18.2		ug/L		91	77 - 123	3	30
1,3-Dichlorobenzene	ND		20.0	19.4		ug/L		97	80 - 120	3	30
1,4-Dichlorobenzene	ND		20.0	18.9		ug/L		95	80 - 120	2	30
2-Butanone (MEK)	ND		100	81.7		ug/L		82	64 - 120	3	30
2-Hexanone	ND		100	99.1		ug/L		99	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)	ND		100	88.7		ug/L		89	78 - 124	8	30
Acetone	15		100	100		ug/L		85	39 - 150	6	30
Benzene	ND		20.0	19.8		ug/L		99	77 - 121	0	30
Bromoform	0.90	J	20.0	16.8		ug/L		79	53 - 120	9	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 460-159001-3 MSD
Matrix: Water
Analysis Batch: 532483

Client Sample ID: PDI-12MSD-WG-75-06202018
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromomethane	ND		20.0	10.1		ug/L		51	10 - 150	26	30
Carbon disulfide	ND		20.0	16.6		ug/L		83	69 - 133	4	30
Carbon tetrachloride	ND		20.0	15.7		ug/L		79	70 - 132	1	30
Chlorobenzene	ND		20.0	20.0		ug/L		100	80 - 120	1	30
Dibromochloromethane	0.35	J	20.0	18.0		ug/L		88	73 - 120	2	30
Chloroethane	ND		20.0	20.7		ug/L		103	52 - 150	4	30
Chloroform	ND		20.0	16.8		ug/L		84	80 - 120	4	30
Chloromethane	ND		20.0	16.2		ug/L		81	56 - 131	6	30
cis-1,2-Dichloroethene	ND	* F1	20.0	15.8	F1	ug/L		79	80 - 120	2	30
Cyclohexane	ND		20.0	17.4		ug/L		87	56 - 150	2	30
Bromodichloromethane	ND		20.0	17.0		ug/L		85	76 - 120	0	30
Dichlorodifluoromethane	ND		20.0	19.2		ug/L		96	50 - 131	6	30
Ethylbenzene	ND		20.0	19.9		ug/L		99	80 - 120	1	30
1,2-Dibromoethane	ND		20.0	18.9		ug/L		94	80 - 120	2	30
Isopropylbenzene	ND		20.0	19.1		ug/L		95	80 - 123	4	30
Methyl acetate	ND		40.0	35.1		ug/L		88	66 - 144	4	30
Methyl tert-butyl ether	ND		20.0	17.6		ug/L		88	79 - 122	2	30
Methylcyclohexane	ND		20.0	17.0		ug/L		85	61 - 145	2	30
Methylene Chloride	ND		20.0	17.5		ug/L		87	77 - 123	5	30
Tetrachloroethene	0.43	J	20.0	21.7		ug/L		106	78 - 122	8	30
Toluene	ND		20.0	18.6		ug/L		93	80 - 120	2	30
trans-1,2-Dichloroethene	ND		20.0	17.3		ug/L		87	79 - 120	1	30
trans-1,3-Dichloropropene	ND		20.0	17.5		ug/L		87	76 - 120	3	30
Trichloroethene	ND		20.0	17.8		ug/L		89	77 - 120	1	30
Trichlorofluoromethane	ND		20.0	21.1		ug/L		105	71 - 143	2	30
Vinyl chloride	ND		20.0	19.8		ug/L		99	62 - 138	7	30
cis-1,3-Dichloropropene	ND		20.0	16.3		ug/L		81	77 - 120	3	30
Styrene	ND		20.0	18.4		ug/L		92	80 - 120	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*89*		*80 - 120*
Dibromofluoromethane (Surr)	*83*		*72 - 131*

Lab Sample ID: MB 460-532498/13
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			06/30/18 22:07	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			06/30/18 22:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			06/30/18 22:07	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			06/30/18 22:07	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			06/30/18 22:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			06/30/18 22:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			06/30/18 22:07	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-532498/13
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			06/30/18 22:07	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			06/30/18 22:07	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			06/30/18 22:07	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			06/30/18 22:07	1
2-Hexanone	ND		5.0	0.78	ug/Kg			06/30/18 22:07	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			06/30/18 22:07	1
Acetone	ND		5.0	3.8	ug/Kg			06/30/18 22:07	1
Benzene	ND		1.0	0.26	ug/Kg			06/30/18 22:07	1
Bromoform	ND		1.0	0.43	ug/Kg			06/30/18 22:07	1
Bromomethane	ND		1.0	0.47	ug/Kg			06/30/18 22:07	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			06/30/18 22:07	1
Chloroethane	ND		1.0	0.52	ug/Kg			06/30/18 22:07	1
Chloroform	ND		1.0	0.32	ug/Kg			06/30/18 22:07	1
Chloromethane	ND		1.0	0.44	ug/Kg			06/30/18 22:07	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			06/30/18 22:07	1
Cyclohexane	ND		1.0	0.22	ug/Kg			06/30/18 22:07	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			06/30/18 22:07	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			06/30/18 22:07	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			06/30/18 22:07	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			06/30/18 22:07	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			06/30/18 22:07	1
Methyl acetate	ND		5.0	4.3	ug/Kg			06/30/18 22:07	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			06/30/18 22:07	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			06/30/18 22:07	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
Toluene	ND		1.0	0.63	ug/Kg			06/30/18 22:07	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			06/30/18 22:07	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Trichloroethene	ND		1.0	0.14	ug/Kg			06/30/18 22:07	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			06/30/18 22:07	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			06/30/18 22:07	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			06/30/18 22:07	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			06/30/18 22:07	1
Styrene	ND		1.0	0.12	ug/Kg			06/30/18 22:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*		*06/30/18 22:07*	*1*
4-Bromofluorobenzene	*89*		*67 - 126*		*06/30/18 22:07*	*1*
Toluene-d8 (Surr)	*105*		*73 - 121*		*06/30/18 22:07*	*1*
Dibromofluoromethane (Surr)	*102*		*61 - 149*		*06/30/18 22:07*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532498/3
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/Kg		100	80 - 125
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/Kg		98	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	24.8		ug/Kg		124	78 - 132
1,1,2-Trichloroethane	20.0	19.3		ug/Kg		96	76 - 124
1,1-Dichloroethane	20.0	19.3		ug/Kg		96	80 - 124
1,1-Dichloroethene	20.0	21.9		ug/Kg		110	79 - 132
1,2,4-Trichlorobenzene	20.0	20.6		ug/Kg		103	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.0		ug/Kg		95	65 - 129
1,2-Dichlorobenzene	20.0	20.0		ug/Kg		100	80 - 121
1,2-Dichloroethane	20.0	16.9		ug/Kg		85	68 - 120
1,2-Dichloropropane	20.0	18.3		ug/Kg		92	77 - 124
1,3-Dichlorobenzene	20.0	20.2		ug/Kg		101	79 - 124
1,4-Dichlorobenzene	20.0	20.2		ug/Kg		101	79 - 121
2-Butanone (MEK)	100	94.9		ug/Kg		95	61 - 140
2-Hexanone	100	96.9		ug/Kg		97	78 - 120
4-Methyl-2-pentanone (MIBK)	100	99.8		ug/Kg		100	80 - 120
Acetone	100	99.2		ug/Kg		99	75 - 120
Benzene	20.0	19.6		ug/Kg		98	75 - 127
Bromoform	20.0	17.8		ug/Kg		89	19 - 150
Bromomethane	20.0	23.6		ug/Kg		118	59 - 136
Carbon disulfide	20.0	21.0		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	19.7		ug/Kg		99	77 - 138
Chlorobenzene	20.0	19.6		ug/Kg		98	80 - 120
Dibromochloromethane	20.0	18.5		ug/Kg		93	67 - 143
Chloroethane	20.0	23.1		ug/Kg		116	50 - 139
Chloroform	20.0	18.6		ug/Kg		93	80 - 122
Chloromethane	20.0	19.2		ug/Kg		96	66 - 128
cis-1,2-Dichloroethene	20.0	18.3		ug/Kg		91	80 - 123
Cyclohexane	20.0	22.9		ug/Kg		115	67 - 135
Bromodichloromethane	20.0	17.7		ug/Kg		89	76 - 129
Dichlorodifluoromethane	20.0	22.5		ug/Kg		113	72 - 127
Ethylbenzene	20.0	20.4		ug/Kg		102	79 - 124
1,2-Dibromoethane	20.0	19.4		ug/Kg		97	80 - 122
Isopropylbenzene	20.0	20.9		ug/Kg		105	80 - 125
Methyl acetate	40.0	33.3		ug/Kg		83	73 - 123
Methyl tert-butyl ether	20.0	20.1		ug/Kg		101	80 - 120
Methylcyclohexane	20.0	22.2		ug/Kg		111	71 - 137
Methylene Chloride	20.0	19.8		ug/Kg		99	79 - 128
Tetrachloroethene	20.0	20.0		ug/Kg		100	73 - 130
Toluene	20.0	19.5		ug/Kg		97	75 - 122
trans-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	80 - 129
trans-1,3-Dichloropropene	20.0	19.0		ug/Kg		95	72 - 121
Trichloroethene	20.0	18.6		ug/Kg		93	79 - 122
Trichlorofluoromethane	20.0	22.3		ug/Kg		112	68 - 136
Vinyl chloride	20.0	22.9		ug/Kg		115	70 - 134
cis-1,3-Dichloropropene	20.0	19.4		ug/Kg		97	75 - 124
Styrene	20.0	19.7		ug/Kg		98	78 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-532498/3
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 135*
4-Bromofluorobenzene	*91*		*67 - 126*
Toluene-d8 (Surr)	*103*		*73 - 121*
Dibromofluoromethane (Surr)	*98*		*61 - 149*

Lab Sample ID: LCSD 460-532498/4
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	20.3		ug/Kg		101	80 - 125	1	30
1,1,2,2-Tetrachloroethane			20.0	19.6		ug/Kg		98	72 - 131	0	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	24.3		ug/Kg		121	78 - 132	2	30
1,1,2-Trichloroethane			20.0	19.3		ug/Kg		97	76 - 124	0	30
1,1-Dichloroethane			20.0	19.4		ug/Kg		97	80 - 124	1	30
1,1-Dichloroethene			20.0	21.2		ug/Kg		106	79 - 132	4	30
1,2,4-Trichlorobenzene			20.0	20.6		ug/Kg		103	74 - 124	0	30
1,2-Dibromo-3-Chloropropane			20.0	19.0		ug/Kg		95	65 - 129	0	30
1,2-Dichlorobenzene			20.0	20.1		ug/Kg		101	80 - 121	1	30
1,2-Dichloroethane			20.0	16.9		ug/Kg		85	68 - 120	0	30
1,2-Dichloropropane			20.0	18.3		ug/Kg		92	77 - 124	0	30
1,3-Dichlorobenzene			20.0	20.2		ug/Kg		101	79 - 124	0	30
1,4-Dichlorobenzene			20.0	20.4		ug/Kg		102	79 - 121	1	30
2-Butanone (MEK)			100	97.1		ug/Kg		97	61 - 140	2	30
2-Hexanone			100	96.4		ug/Kg		96	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)			100	103		ug/Kg		103	80 - 120	3	30
Acetone			100	99.3		ug/Kg		99	75 - 120	0	30
Benzene			20.0	20.0		ug/Kg		100	75 - 127	2	30
Bromoform			20.0	17.7		ug/Kg		89	19 - 150	0	30
Bromomethane			20.0	23.2		ug/Kg		116	59 - 136	2	30
Carbon disulfide			20.0	20.3		ug/Kg		102	74 - 130	3	30
Carbon tetrachloride			20.0	20.1		ug/Kg		100	77 - 138	2	30
Chlorobenzene			20.0	19.5		ug/Kg		97	80 - 120	1	30
Dibromochloromethane			20.0	18.6		ug/Kg		93	67 - 143	0	30
Chloroethane			20.0	22.9		ug/Kg		114	50 - 139	1	30
Chloroform			20.0	18.7		ug/Kg		93	80 - 122	0	30
Chloromethane			20.0	18.3		ug/Kg		91	66 - 128	5	30
cis-1,2-Dichloroethene			20.0	18.5		ug/Kg		93	80 - 123	1	30
Cyclohexane			20.0	22.4		ug/Kg		112	67 - 135	2	30
Bromodichloromethane			20.0	17.7		ug/Kg		89	76 - 129	0	30
Dichlorodifluoromethane			20.0	21.9		ug/Kg		109	72 - 127	3	30
Ethylbenzene			20.0	20.2		ug/Kg		101	79 - 124	1	30
1,2-Dibromoethane			20.0	19.1		ug/Kg		96	80 - 122	1	30
Isopropylbenzene			20.0	21.0		ug/Kg		105	80 - 125	0	30
Methyl acetate			40.0	32.1		ug/Kg		80	73 - 123	4	30
Methyl tert-butyl ether			20.0	19.9		ug/Kg		100	80 - 120	1	30
Methylcyclohexane			20.0	21.5		ug/Kg		108	71 - 137	3	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-532498/4
Matrix: Solid
Analysis Batch: 532498

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride			20.0	19.6		ug/Kg		98	79 - 128	1	30
Tetrachloroethene			20.0	19.9		ug/Kg		100	73 - 130	1	30
Toluene			20.0	19.5		ug/Kg		97	75 - 122	0	30
trans-1,2-Dichloroethene			20.0	19.9		ug/Kg		100	80 - 129	2	30
trans-1,3-Dichloropropene			20.0	19.0		ug/Kg		95	72 - 121	0	30
Trichloroethene			20.0	18.2		ug/Kg		91	79 - 122	2	30
Trichlorofluoromethane			20.0	21.7		ug/Kg		109	68 - 136	3	30
Vinyl chloride			20.0	20.8		ug/Kg		104	70 - 134	10	30
cis-1,3-Dichloropropene			20.0	19.4		ug/Kg		97	75 - 124	0	30
Styrene			20.0	19.9		ug/Kg		99	78 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*
4-Bromofluorobenzene	*89*		*67 - 126*
Toluene-d8 (Surr)	*103*		*73 - 121*
Dibromofluoromethane (Surr)	*101*		*61 - 149*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

GC/MS VOA

Prep Batch: 530346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	5035	
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	5035	

Analysis Batch: 532483

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-1	PDI-TB-06202018	Total/NA	Water	8260C	
460-159001-2	PDI-FB-06202018	Total/NA	Water	8260C	
460-159001-3	PDI-12-WG-75-06202018	Total/NA	Water	8260C	
460-159001-4	PDI-FB-06212018	Total/NA	Water	8260C	
460-159001-5	PDI-13-WG-75-06212018	Total/NA	Water	8260C	
MB 460-532483/9	Method Blank	Total/NA	Water	8260C	
LCS 460-532483/5	Lab Control Sample	Total/NA	Water	8260C	
460-159001-3 MS	PDI-12MS-WG-75-06202018	Total/NA	Water	8260C	
460-159001-3 MSD	PDI-12MSD-WG-75-06202018	Total/NA	Water	8260C	

Analysis Batch: 532498

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	8260C	530346
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	8260C	530346
MB 460-532498/13	Method Blank	Total/NA	Solid	8260C	
LCS 460-532498/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-532498/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Analysis Batch: 532088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159001-6	PDI-13-SO-53-06212018	Total/NA	Solid	Moisture	
460-159001-7	PDI-113-SO-53-06212018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-TB-06202018
Lab Sample ID: 460-159001-1
Date Collected: 06/20/18 00:00
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 19:29	DAS	TAL EDI

Client Sample ID: PDI-FB-06202018
Lab Sample ID: 460-159001-2
Date Collected: 06/20/18 14:00
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 21:11	DAS	TAL EDI

Client Sample ID: PDI-12-WG-75-06202018
Lab Sample ID: 460-159001-3
Date Collected: 06/20/18 14:30
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 23:43	DAS	TAL EDI

Client Sample ID: PDI-FB-06212018
Lab Sample ID: 460-159001-4
Date Collected: 06/21/18 12:35
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	06/30/18 21:36	DAS	TAL EDI

Client Sample ID: PDI-13-WG-75-06212018
Lab Sample ID: 460-159001-5
Date Collected: 06/21/18 13:15
Matrix: Water
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	532483	07/01/18 00:08	DAS	TAL EDI

Client Sample ID: PDI-13-SO-53-06212018
Lab Sample ID: 460-159001-6
Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	532088	06/29/18 07:41	BJP	TAL EDI

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Client Sample ID: PDI-13-SO-53-06212018

Lab Sample ID: 460-159001-6
Date Collected: 06/21/18 12:20
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 81.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:48	DBM	TAL EDI
Total/NA	Analysis	8260C		1	532498	07/01/18 01:28	AAT	TAL EDI

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7
Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	532088	06/29/18 07:41	BJP	TAL EDI

Client Sample ID: PDI-113-SO-53-06212018

Lab Sample ID: 460-159001-7
Date Collected: 06/21/18 12:30
Matrix: Solid
Date Received: 06/21/18 20:00
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			530346	06/23/18 06:49	DBM	TAL EDI
Total/NA	Analysis	8260C		1	532498	07/01/18 01:03	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159001-1	PDI-TB-06202018	Water	06/20/18 00:00	06/21/18 20:00
460-159001-2	PDI-FB-06202018	Water	06/20/18 14:00	06/21/18 20:00
460-159001-3	PDI-12-WG-75-06202018	Water	06/20/18 14:30	06/21/18 20:00
460-159001-4	PDI-FB-06212018	Water	06/21/18 12:35	06/21/18 20:00
460-159001-5	PDI-13-WG-75-06212018	Water	06/21/18 13:15	06/21/18 20:00
460-159001-6	PDI-13-SO-53-06212018	Solid	06/21/18 12:20	06/21/18 20:00
460-159001-7	PDI-113-SO-53-06212018	Solid	06/21/18 12:30	06/21/18 20:00

NYSC 460501

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159001
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS_Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	A	N		
PDI-TB-06202018	6/20/18	—	—	Water			✓						Trip Blank 1
PDI-FB-06202018	6/20/18	1400	—	Water			✓						Field Blank 2
PDI-12-WG-75-06202018	6/20/18	1430	G	Water			✓	✓					3
PDI-12MS-WG-75-06202018	6/20/18	1430	G	Water			✓	✓					MS 3
PDI-12MSD-WG-75-06202018	6/20/18	1430	G	Water			✓	✓					MSD 3
PDI-FB-06212018	6/21/18	1235	—	Water			✓						Field Blank 4
PDI-13-WG-75-06212018	6/21/18	1315	G	Water			✓						5
				Water									
				Water									
				Water									
				Water									

460-159001 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: Date: Time: Method of Shipment:

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	6/21/18 1320			6/21/18 1320	
Relinquished by:	6/21/18 1700			6/21/18 1700	TA
Relinquished by:	6/21/18 1720	TA		6/21/18 2000	

Custody Seals Intact: Δ Yes Δ No Custody Seal No.: 6/21/18

Cooler Temperature(s) °C and Other Remarks: 6/21/18 2000

2.3/2.3 IR#4 NOCS

Ver: 08/04/2016

7/6/2018

Page 31 of 34

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

7/6/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com	COC No: 480-114385-26474.4
Company: CDM Smith, Inc.			Page: Page 4 of 4
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested	Job #: 154001
City: Latham	TAT Requested (days): 14 Day		
State, Zip: NY, 12110	PO #: 77861		
Phone:	WO #:		
Email: picunasae@cdmsmith.com	Project #: 48016917		
Project Name: Former Aluminum Louvre	SSOW#:		
Site:			

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
POI-13-50-53-06212018	6/21/18	1220	G	Solid			✓						6	
POI-113-50-53-0621 2019	6/21/18	1230	G	Solid			✓						7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/21/18 1320	Company	Received by:	Date/Time: 6/21/18 1320	Company
Relinquished by:	Date/Time: 6/21/18 1700	Company	Received by:	Date/Time: 6/21/18 1700	Company
Relinquished by:	Date/Time: 6/21/18 1710	Company	Received by:	Date/Time: 6/21/18 2000	Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 6/21/18 2000		Cooler Temperature(s) °C and Other Remarks: TACO: 6/21/18 2000		

2.3 / 2.3 tr# 11 NOC

Ver: 08/04/2016

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159001

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	1.3 °C	1.3 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/2/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159001-1

Login Number: 159001

List Source: TestAmerica Edison

List Number: 1

Creator: Villanueva, Angelica P

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159208-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/10/2018 10:38 AM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/10/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 12

QC Sample Results 13

Definitions 17

QC Association 18

Chronicle 19

Certification Summary 20

Organic Sample Data 21

GC/MS VOA 21

8260C 21

8260C QC Summary 22

8260C Sample Data 32

Standards Data 58

8260C ICAL Data 58

8260C CCAL Data 199

Raw QC Data 209

8260C Tune Data 209

8260C Blank Data 215

8260C LCS/LCSD Data 220

8260C Run Logs 234

Table of Contents

8260C Prep Data 236

Shipping and Receiving Documents 237

Client Chain of Custody 238

Sample Receipt Checklist 240

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159208-1	PDI-TB-06252018	Water	06/25/18 00:00	06/25/18 19:20
460-159208-2	PDI-FB-06252018	Water	06/25/18 08:30	06/25/18 19:20
460-159208-3	PDI-IS-WG-75-06252018	Water	06/25/18 11:25	06/25/18 19:20

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Client Sample ID: PDI-TB-06252018 — Lab Sample ID: 460-159208-1

No Detections.

Client Sample ID: PDI-FB-06252018 — Lab Sample ID: 460-159208-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.8		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	16		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.9		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-IS-WG-75-06252018 — Lab Sample ID: 460-159208-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.46	J	1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	8.4		5.0	5.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.48	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0	0.31	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-TB-06252018

Date Collected: 06/25/18 00:00
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:26	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:26	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:26	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 11:26	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:26	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:26	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:26	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 11:26	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:26	1
Acetone	ND		5.0	5.0	ug/L			07/07/18 11:26	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:26	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 11:26	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 11:26	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:26	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:26	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:26	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 11:26	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 11:26	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:26	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:26	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:26	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:26	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:26	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:26	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:26	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:26	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:26	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:26	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 11:26	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:26	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:26	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:26	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:26	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:26	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:26	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:26	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:26	1

Client Sample ID: PDI-TB-06252018

Lab Sample ID: 460-159208-1

Date Collected: 06/25/18 00:00

Matrix: Water

Date Received: 06/25/18 19:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*07/07/18 11:26*	*1*
4-Bromofluorobenzene	*118*		*77 - 124*		*07/07/18 11:26*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/07/18 11:26*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/07/18 11:26*	*1*

Client Sample ID: PDI-FB-06252018

Lab Sample ID: 460-159208-2

Date Collected: 06/25/18 08:30

Matrix: Water

Date Received: 06/25/18 19:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:51	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:51	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:51	1
2-Butanone (MEK)	**9.8**		5.0	1.9	ug/L			07/07/18 11:51	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:51	1
Acetone	**16**		5.0	5.0	ug/L			07/07/18 11:51	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:51	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 11:51	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 11:51	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:51	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:51	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:51	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 11:51	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 11:51	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:51	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:51	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:51	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:51	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:51	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:51	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:51	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:51	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:51	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:51	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:51	1
Methylene Chloride	**4.9**		1.0	0.32	ug/L			07/07/18 11:51	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:51	1

Client Sample ID: PDI-FB-06252018

Date Collected: 06/25/18 08:30
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:51	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:51	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:51	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:51	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:51	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*		*07/07/18 11:51*	*1*
4-Bromofluorobenzene	*115*		*77 - 124*		*07/07/18 11:51*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/07/18 11:51*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/07/18 11:51*	*1*

Client Sample ID: PDI-IS-WG-75-06252018

Date Collected: 06/25/18 11:25
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.46**	**J**	1.0	0.24	ug/L			07/07/18 12:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 12:16	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 12:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 12:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 12:16	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 12:16	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 12:16	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 12:16	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 12:16	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 12:16	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 12:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 12:16	1
Acetone	**8.4**		5.0	5.0	ug/L			07/07/18 12:16	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 12:16	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 12:16	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 12:16	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 12:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 12:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 12:16	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 12:16	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 12:16	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 12:16	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 12:16	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 12:16	1

Client Sample ID: PDI-IS-WG-75-06252018

Date Collected: 06/25/18 11:25
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 12:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 12:16	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 12:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 12:16	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 12:16	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 12:16	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 12:16	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 12:16	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 12:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 12:16	1
Tetrachloroethene	**0.48**	**J**	1.0	0.25	ug/L			07/07/18 12:16	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 12:16	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 12:16	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 12:16	1
Trichloroethene	**15**		1.0	0.31	ug/L			07/07/18 12:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 12:16	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 12:16	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 12:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 12:16	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/07/18 12:16*	*1*
4-Bromofluorobenzene	*117*		*77 - 124*		*07/07/18 12:16*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/07/18 12:16*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/07/18 12:16*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159208-1	PDI-TB-06252018	107	118	109	108
460-159208-2	PDI-FB-06252018	108	115	108	108
460-159208-3	PDI-IS-WG-75-06252018	110	117	109	109
LCS 460-534240/3	Lab Control Sample	92	122	104	99
LCSD 460-534240/4	Lab Control Sample Dup	96	120	105	101
MB 460-534240/7	Method Blank	105	116	106	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534240/7
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:01	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:01	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/07/18 11:01	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:01	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:01	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:01	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 11:01	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:01	1
Acetone	ND		5.0	5.0	ug/L			07/07/18 11:01	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:01	1
Bromoform	ND		1.0	0.54	ug/L			07/07/18 11:01	1
Bromomethane	ND		1.0	1.0	ug/L			07/07/18 11:01	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:01	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:01	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:01	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/07/18 11:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:01	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:01	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:01	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:01	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:01	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:01	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:01	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:01	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:01	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:01	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:01	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:01	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:01	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:01	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:01	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:01	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:01	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:01	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:01	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/07/18 11:01*	*1*
4-Bromofluorobenzene	*116*		*77 - 124*		*07/07/18 11:01*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/07/18 11:01*	*1*
Dibromofluoromethane (Surr)	*107*		*72 - 131*		*07/07/18 11:01*	*1*

Lab Sample ID: LCS 460-534240/3
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	75 - 125
1,1,2,2-Tetrachloroethane	20.0	15.8		ug/L		79	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8		ug/L		99	59 - 150
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	78 - 120
1,1-Dichloroethane	20.0	21.9		ug/L		110	77 - 123
1,1-Dichloroethene	20.0	20.7		ug/L		104	74 - 123
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	9.78	*	ug/L		49	55 - 134
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	20.6		ug/L		103	76 - 121
1,2-Dichloropropane	20.0	22.2		ug/L		111	77 - 123
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120
2-Butanone (MEK)	100	107		ug/L		107	64 - 120
2-Hexanone	100	109		ug/L		109	71 - 125
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	78 - 124
Acetone	100	115		ug/L		115	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	9.50	*	ug/L		47	53 - 120
Bromomethane	20.0	25.9		ug/L		130	10 - 150
Carbon disulfide	20.0	18.0		ug/L		90	69 - 133
Carbon tetrachloride	20.0	16.9		ug/L		84	70 - 132
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120
Dibromochloromethane	20.0	13.3	*	ug/L		67	73 - 120
Chloroethane	20.0	59.0	*	ug/L		295	52 - 150
Chloroform	20.0	22.0		ug/L		110	80 - 120
Chloromethane	20.0	22.1		ug/L		111	56 - 131
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	80 - 120
Cyclohexane	20.0	19.8		ug/L		99	56 - 150
Bromodichloromethane	20.0	17.5		ug/L		88	76 - 120
Dichlorodifluoromethane	20.0	19.0		ug/L		95	50 - 131
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
1,2-Dibromoethane	20.0	17.6		ug/L		88	80 - 120
Isopropylbenzene	20.0	20.7		ug/L		103	80 - 123
Methyl acetate	40.0	31.9		ug/L		80	66 - 144
Methyl tert-butyl ether	20.0	19.4		ug/L		97	79 - 122
Methylcyclohexane	20.0	19.6		ug/L		98	61 - 145
Methylene Chloride	20.0	20.8		ug/L		104	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.8		ug/L		104	80 - 120
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	79 - 120
trans-1,3-Dichloropropene	20.0	17.3		ug/L		86	76 - 120
Trichloroethene	20.0	20.1		ug/L		101	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534240/3
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	21.1		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	77 - 120
Styrene	20.0	20.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*122*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*72 - 131*

Lab Sample ID: LCSD 460-534240/4
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	75 - 125	11	30
1,1,2,2-Tetrachloroethane	20.0	17.3		ug/L		87	74 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	78 - 120	7	30
1,1-Dichloroethane	20.0	24.1		ug/L		120	77 - 123	9	30
1,1-Dichloroethene	20.0	23.0		ug/L		115	74 - 123	10	30
1,2,4-Trichlorobenzene	20.0	22.3		ug/L		112	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	10.7	*	ug/L		54	55 - 134	9	30
1,2-Dichlorobenzene	20.0	22.1		ug/L		111	80 - 120	7	30
1,2-Dichloroethane	20.0	21.7		ug/L		109	76 - 121	5	30
1,2-Dichloropropane	20.0	23.7		ug/L		119	77 - 123	7	30
1,3-Dichlorobenzene	20.0	22.3		ug/L		112	80 - 120	8	30
1,4-Dichlorobenzene	20.0	22.7		ug/L		114	80 - 120	8	30
2-Butanone (MEK)	100	110		ug/L		110	64 - 120	2	30
2-Hexanone	100	109		ug/L		109	71 - 125	0	30
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	78 - 124	0	30
Acetone	100	117		ug/L		117	39 - 150	2	30
Benzene	20.0	22.9		ug/L		114	77 - 121	10	30
Bromoform	20.0	10.5	*	ug/L		52	53 - 120	10	30
Bromomethane	20.0	31.7	*	ug/L		158	10 - 150	20	30
Carbon disulfide	20.0	20.7		ug/L		104	69 - 133	14	30
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 132	10	30
Chlorobenzene	20.0	22.2		ug/L		111	80 - 120	8	30
Dibromochloromethane	20.0	14.4	*	ug/L		72	73 - 120	8	30
Chloroethane	20.0	60.6	*	ug/L		303	52 - 150	3	30
Chloroform	20.0	23.8		ug/L		119	80 - 120	8	30
Chloromethane	20.0	22.9		ug/L		114	56 - 131	3	30
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	80 - 120	9	30
Cyclohexane	20.0	20.0		ug/L		100	56 - 150	1	30
Bromodichloromethane	20.0	18.8		ug/L		94	76 - 120	7	30
Dichlorodifluoromethane	20.0	20.3		ug/L		101	50 - 131	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534240/4
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	22.4		ug/L		112	80 - 120	11	30
1,2-Dibromoethane			20.0	18.7		ug/L		94	80 - 120	6	30
Isopropylbenzene			20.0	22.8		ug/L		114	80 - 123	10	30
Methyl acetate			40.0	33.7		ug/L		84	66 - 144	5	30
Methyl tert-butyl ether			20.0	20.7		ug/L		103	79 - 122	6	30
Methylcyclohexane			20.0	20.8		ug/L		104	61 - 145	6	30
Methylene Chloride			20.0	22.4		ug/L		112	77 - 123	8	30
Tetrachloroethene			20.0	22.9		ug/L		114	78 - 122	11	30
Toluene			20.0	22.8		ug/L		114	80 - 120	9	30
trans-1,2-Dichloroethene			20.0	24.0		ug/L		120	79 - 120	11	30
trans-1,3-Dichloropropene			20.0	18.8		ug/L		94	76 - 120	9	30
Trichloroethene			20.0	21.7		ug/L		108	77 - 120	7	30
Trichlorofluoromethane			20.0	21.4		ug/L		107	71 - 143	1	30
Vinyl chloride			20.0	21.9		ug/L		110	62 - 138	4	30
cis-1,3-Dichloropropene			20.0	21.2		ug/L		106	77 - 120	8	30
Styrene			20.0	21.7		ug/L		108	80 - 120	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*
4-Bromofluorobenzene	*120*		*77 - 124*
Toluene-d8 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

GC/MS VOA

Analysis Batch: 534240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159208-1	PDI-TB-06252018	Total/NA	Water	8260C	
460-159208-2	PDI-FB-06252018	Total/NA	Water	8260C	
460-159208-3	PDI-IS-WG-75-06252018	Total/NA	Water	8260C	
MB 460-534240/7	Method Blank	Total/NA	Water	8260C	
LCS 460-534240/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534240/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Client Sample ID: PDI-TB-06252018
Lab Sample ID: 460-159208-1
Date Collected: 06/25/18 00:00
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 11:26	XXC	TAL EDI

Client Sample ID: PDI-FB-06252018
Lab Sample ID: 460-159208-2
Date Collected: 06/25/18 08:30
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 11:51	XXC	TAL EDI

Client Sample ID: PDI-IS-WG-75-06252018
Lab Sample ID: 460-159208-3
Date Collected: 06/25/18 11:25
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 12:16	XXC	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159208-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): DB-624 ID: 0.18(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06252018	460-159208-1	108	107	109	118
PDI-FB-06252018	460-159208-2	108	108	108	115
PDI-IS-WG-75-06252018	460-159208-3	109	110	109	117
	MB 460-534240/7	107	105	106	116
	LCS 460-534240/3	99	92	104	122
	LCSD 460-534240/4	101	96	105	120

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T09453.D

Lab ID: LCS 460-534240/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.6	98	75-125	
1,1,2,2-Tetrachloroethane	20.0	15.8	79	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8	99	59-150	
1,1,2-Trichloroethane	20.0	19.1	95	78-120	
1,1-Dichloroethane	20.0	21.9	110	77-123	
1,1-Dichloroethene	20.0	20.7	104	74-123	
1,2,4-Trichlorobenzene	20.0	20.0	100	80-124	
1,2-Dibromo-3-Chloropropane	20.0	9.78	49	55-134	*
1,2-Dichlorobenzene	20.0	20.7	103	80-120	
1,2-Dichloroethane	20.0	20.6	103	76-121	
1,2-Dichloropropane	20.0	22.2	111	77-123	
1,3-Dichlorobenzene	20.0	20.6	103	80-120	
1,4-Dichlorobenzene	20.0	21.0	105	80-120	
2-Butanone (MEK)	100	107	107	64-120	
2-Hexanone	100	109	109	71-125	
4-Methyl-2-pentanone (MIBK)	100	116	116	78-124	
Acetone	100	115	115	39-150	
Benzene	20.0	20.7	104	77-121	
Bromoform	20.0	9.50	47	53-120	*
Bromomethane	20.0	25.9	130	10-150	
Carbon disulfide	20.0	18.0	90	69-133	
Carbon tetrachloride	20.0	16.9	84	70-132	
Chlorobenzene	20.0	20.4	102	80-120	
Dibromochloromethane	20.0	13.3	67	73-120	*
Chloroethane	20.0	59.0	295	52-150	*
Chloroform	20.0	22.0	110	80-120	
Chloromethane	20.0	22.1	111	56-131	
cis-1,2-Dichloroethene	20.0	21.3	107	80-120	
Cyclohexane	20.0	19.8	99	56-150	
Bromodichloromethane	20.0	17.5	88	76-120	
Dichlorodifluoromethane	20.0	19.0	95	50-131	
Ethylbenzene	20.0	20.0	100	80-120	
1,2-Dibromoethane	20.0	17.6	88	80-120	
Isopropylbenzene	20.0	20.7	103	80-123	
Methyl acetate	40.0	31.9	80	66-144	
Methyl tert-butyl ether	20.0	19.4	97	79-122	
Methylcyclohexane	20.0	19.6	98	61-145	
Methylene Chloride	20.0	20.8	104	77-123	
Tetrachloroethene	20.0	20.4	102	78-122	
Toluene	20.0	20.8	104	80-120	
trans-1,2-Dichloroethene	20.0	21.5	107	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T09453.D

Lab ID: LCS 460-534240/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.3	86	76-120	
Trichloroethene	20.0	20.1	101	77-120	
Trichlorofluoromethane	20.0	21.3	106	71-143	
Vinyl chloride	20.0	21.1	106	62-138	
cis-1,3-Dichloropropene	20.0	19.5	98	77-120	
Styrene	20.0	20.1	101	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T09454.D

Lab ID: LCSD 460-534240/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.8	109	11	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	17.3	87	9	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	5	30	59-150	
1,1,2-Trichloroethane	20.0	20.4	102	7	30	78-120	
1,1-Dichloroethane	20.0	24.1	120	9	30	77-123	
1,1-Dichloroethene	20.0	23.0	115	10	30	74-123	
1,2,4-Trichlorobenzene	20.0	22.3	112	11	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	10.7	54	9	30	55-134	*
1,2-Dichlorobenzene	20.0	22.1	111	7	30	80-120	
1,2-Dichloroethane	20.0	21.7	109	5	30	76-121	
1,2-Dichloropropane	20.0	23.7	119	7	30	77-123	
1,3-Dichlorobenzene	20.0	22.3	112	8	30	80-120	
1,4-Dichlorobenzene	20.0	22.7	114	8	30	80-120	
2-Butanone (MEK)	100	110	110	2	30	64-120	
2-Hexanone	100	109	109	0	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	116	116	0	30	78-124	
Acetone	100	117	117	2	30	39-150	
Benzene	20.0	22.9	114	10	30	77-121	
Bromoform	20.0	10.5	52	10	30	53-120	*
Bromomethane	20.0	31.7	158	20	30	10-150	*
Carbon disulfide	20.0	20.7	104	14	30	69-133	
Carbon tetrachloride	20.0	18.6	93	10	30	70-132	
Chlorobenzene	20.0	22.2	111	8	30	80-120	
Dibromochloromethane	20.0	14.4	72	8	30	73-120	*
Chloroethane	20.0	60.6	303	3	30	52-150	*
Chloroform	20.0	23.8	119	8	30	80-120	
Chloromethane	20.0	22.9	114	3	30	56-131	
cis-1,2-Dichloroethene	20.0	23.2	116	9	30	80-120	
Cyclohexane	20.0	20.0	100	1	30	56-150	
Bromodichloromethane	20.0	18.8	94	7	30	76-120	
Dichlorodifluoromethane	20.0	20.3	101	6	30	50-131	
Ethylbenzene	20.0	22.4	112	11	30	80-120	
1,2-Dibromoethane	20.0	18.7	94	6	30	80-120	
Isopropylbenzene	20.0	22.8	114	10	30	80-123	
Methyl acetate	40.0	33.7	84	5	30	66-144	
Methyl tert-butyl ether	20.0	20.7	103	6	30	79-122	
Methylcyclohexane	20.0	20.8	104	6	30	61-145	
Methylene Chloride	20.0	22.4	112	8	30	77-123	
Tetrachloroethene	20.0	22.9	114	11	30	78-122	
Toluene	20.0	22.8	114	9	30	80-120	
trans-1,2-Dichloroethene	20.0	24.0	120	11	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Matrix: Water Level: Low Lab File ID: T09454.D

Lab ID: LCSD 460-534240/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.8	94	9	30	76-120	
Trichloroethene	20.0	21.7	108	7	30	77-120	
Trichlorofluoromethane	20.0	21.4	107	1	30	71-143	
Vinyl chloride	20.0	21.9	110	4	30	62-138	
cis-1,3-Dichloropropene	20.0	21.2	106	8	30	77-120	
Styrene	20.0	21.7	108	8	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab File ID: T09457.D Lab Sample ID: MB 460-534240/7

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS15 Date Analyzed: 07/07/2018 11:01

GC Column: DB-624 ID: 0.18(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534240/3	T09453.D	07/07/2018 09:12
	LCSD 460-534240/4	T09454.D	07/07/2018 09:46
PDI-TB-06252018	460-159208-1	T09458.D	07/07/2018 11:26
PDI-FB-06252018	460-159208-2	T09459.D	07/07/2018 11:51
PDI-IS-WG-75-06252018	460-159208-3	T09460.D	07/07/2018 12:16

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab File ID: T08675.D BFB Injection Date: 06/20/2018

Instrument ID: CVOAMS15 BFB Injection Time: 20:18

Analysis Batch No.: 529548

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.1	
75	30.0 - 60.0 % of mass 95	45.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.8	
173	Less than 2.0 % of mass 174	0.7	(0.9) 1
174	50.0 - 120.00 % of mass 95	81.9	
175	5.0 - 9.0 % of mass 174	6.0	(7.3) 1
176	95.0 - 101.0 % of mass 174	79.9	(97.6) 1
177	5.0 - 9.0 % of mass 176	5.1	(6.4) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD8 460-529548/2	T08676.D	06/20/2018	20:46
	STD05 460-529548/3	T08677.D	06/20/2018	21:11
	STD1 460-529548/4	T08678.D	06/20/2018	21:36
	STD5 460-529548/5	T08679.D	06/20/2018	22:01
	STD20 460-529548/6	T08680.D	06/20/2018	22:27
	STD50 460-529548/7	T08681.D	06/20/2018	22:52
	STD200 460-529548/8	T08682.D	06/20/2018	23:17
	STD500 460-529548/9	T08683.D	06/20/2018	23:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab File ID: T09451.D BFB Injection Date: 07/07/2018

Instrument ID: CVOAMS15 BFB Injection Time: 08:24

Analysis Batch No.: 534240

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.2	
75	30.0 - 60.0 % of mass 95	48.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	0.2	(0.3) 1
174	50.0 - 120.00 % of mass 95	81.5	
175	5.0 - 9.0 % of mass 174	6.0	(7.3) 1
176	95.0 - 101.0 % of mass 174	79.1	(97.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534240/2	T09452.D	07/07/2018	08:47
	LCS 460-534240/3	T09453.D	07/07/2018	09:12
	LCSD 460-534240/4	T09454.D	07/07/2018	09:46
	MB 460-534240/7	T09457.D	07/07/2018	11:01
PDI-TB-06252018	460-159208-1	T09458.D	07/07/2018	11:26
PDI-FB-06252018	460-159208-2	T09459.D	07/07/2018	11:51
PDI-IS-WG-75-06252018	460-159208-3	T09460.D	07/07/2018	12:16

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Sample No.: CCVIS 460-534240/2 Date Analyzed: 07/07/2018 08:47

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T09452.D Heated Purge: (Y/N) N

Calibration ID: 69555

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		23604	2.14	165172	3.01	435217	4.08
UPPER LIMIT		47208	2.64	330344	3.51	870434	4.58
LOWER LIMIT		11802	1.64	82586	2.51	217609	3.58
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534240/3		24822	2.14	166891	3.02	432434	4.08
LCSD 460-534240/4		26515	2.13	176004	3.01	437517	4.08
MB 460-534240/7		20073	2.13	143114	3.01	406554	4.08
460-159208-1	PDI-TB-06252018	21326	2.13	143558	3.01	396704	4.08
460-159208-2	PDI-FB-06252018	21833	2.13	148508	3.01	404815	4.08
460-159208-3	PDI-IS-WG-75-06252018	21823	2.13	147793	3.01	400986	4.08

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Sample No.: CCVIS 460-534240/2 Date Analyzed: 07/07/2018 08:47

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm)

Lab File ID (Standard): T09452.D Heated Purge: (Y/N) N

Calibration ID: 69555

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		20841	4.80	345062	7.79	182150	11.48
UPPER LIMIT		41682	5.30	690124	8.29	364300	11.98
LOWER LIMIT		10421	4.30	172531	7.29	91075	10.98
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534240/3		21884	4.80	340018	7.79	179255	11.48
LCSD 460-534240/4		23687	4.80	344137	7.79	180749	11.48
MB 460-534240/7		19426	4.80	334074	7.79	173581	11.48
460-159208-1	PDI-TB-06252018	20513	4.80	323318	7.79	167870	11.48
460-159208-2	PDI-FB-06252018	20772	4.80	329328	7.79	170953	11.48
460-159208-3	PDI-IS-WG-75-06252018	20318	4.80	326365	7.79	169780	11.48

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-TB-06252018 | Lab Sample ID: 460-159208-1

Matrix: Water | Lab File ID: T09458.D

Analysis Method: 8260C | Date Collected: 06/25/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND	*	1.0	0.54
74-83-9	Bromomethane	ND	*	1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND	*	1.0	0.28
75-00-3	Chloroethane	ND	*	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-TB-06252018 | Lab Sample ID: 460-159208-1

Matrix: Water | Lab File ID: T09458.D

Analysis Method: 8260C | Date Collected: 06/25/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		74-132
460-00-4	4-Bromofluorobenzene	118		77-124
2037-26-5	Toluene-d8 (Surr)	109		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09458.D
Lims ID: 460-159208-A-1
Client ID: PDI-TB-06252018
Sample Type: Client
Inject. Date: 07-Jul-2018 11:26:46 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159208-A-1
Misc. Info.: 460-0075030-008
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:43:24 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: colladox Date: 08-Jul-2018 19:25:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	66	2.134	2.140	-0.006	99	21326	1000.0	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	143558	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	88460	54.1	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.749	0.005	97	95536	53.6	
* 61 Fluorobenzene	96	4.079	4.080	-0.001	98	396704	50.0	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	23	20513	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.852	5.846	0.006	99	343613	54.3	
* 90 Chlorobenzene-d5	117	7.791	7.792	-0.001	86	323318	50.0	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	124362	58.8	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.478	0.005	95	167870	50.0	

Reagents:

VOA6IS ONLY_00008 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Jul-2018 19:43:25 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09458.D

Injection Date: 07-Jul-2018 11:26:46 Instrument ID: CVOAMS15

Lims ID: 460-159208-A-1 Lab Sample ID: 460-159208-1

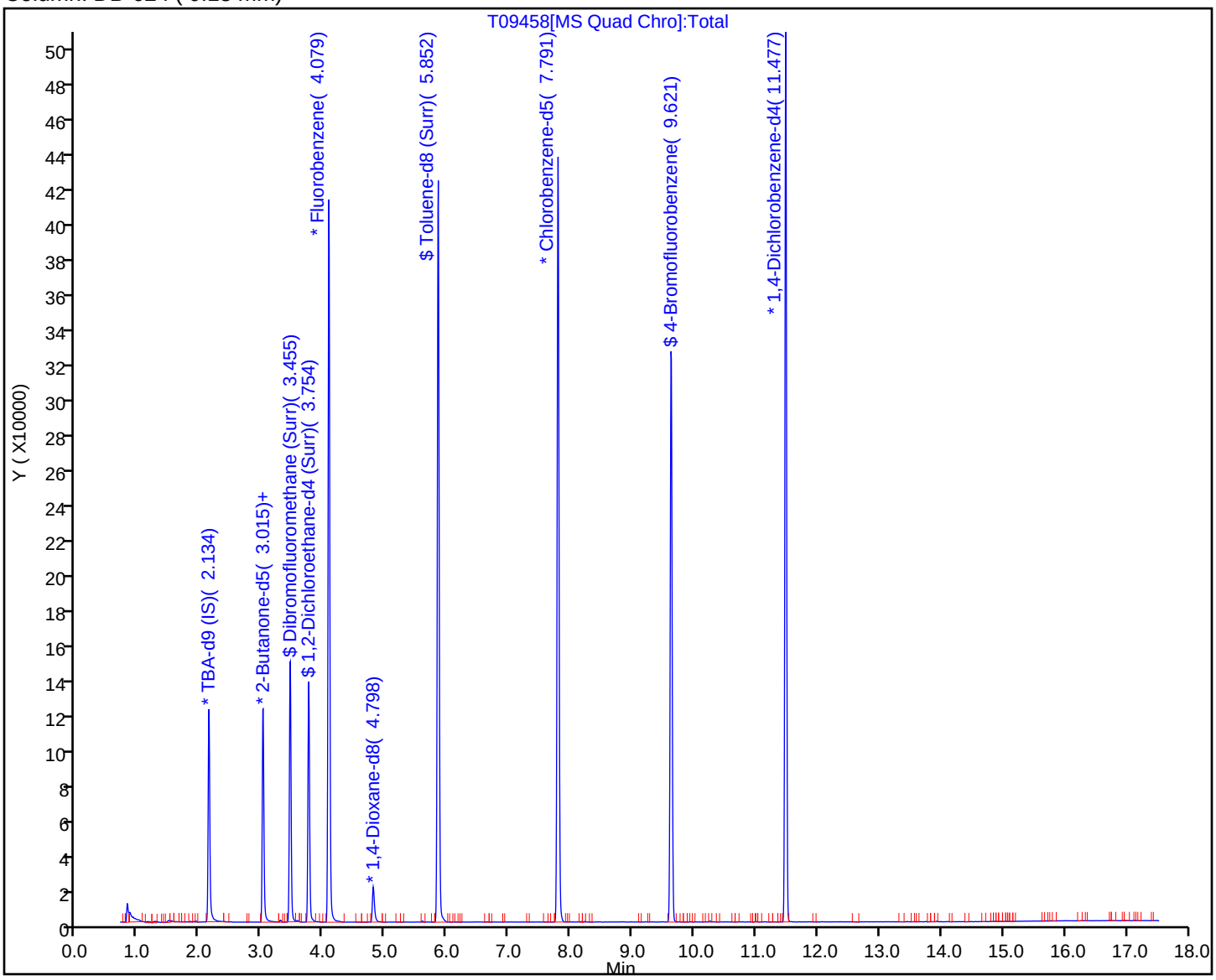
Client ID: PDI-TB-06252018

Operator ID: ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



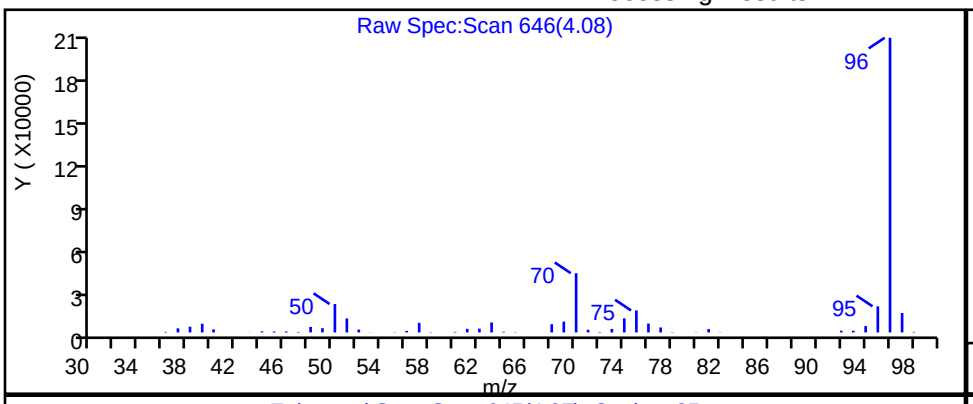
User Disabled Compound Report

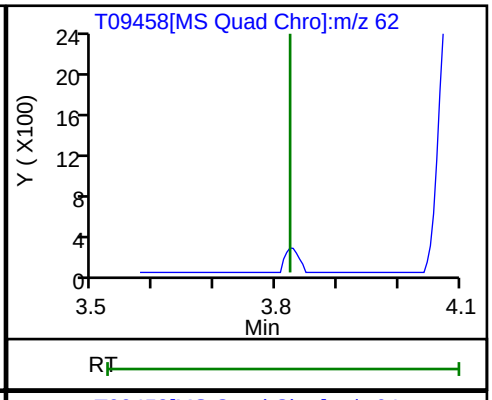
TestAmerica Edison

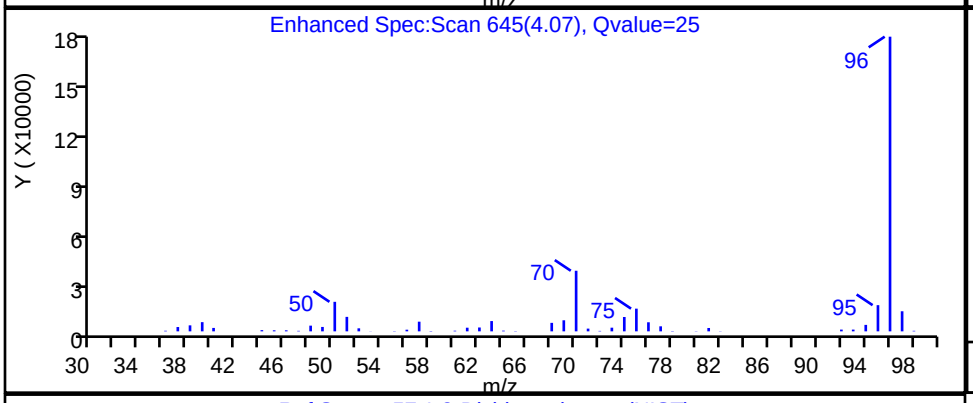
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09458.D				
Injection Date:	07-Jul-2018 11:26:46	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-1	Lab Sample ID:	460-159208-1		
Client ID:	PDI-TB-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

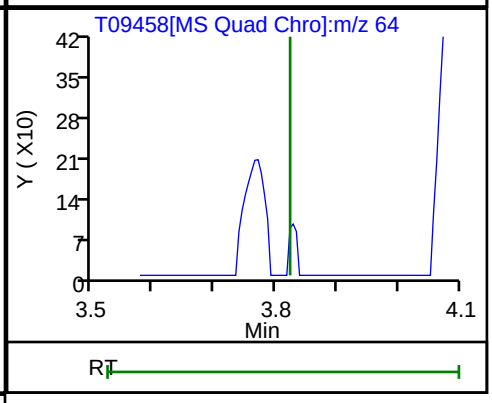
57 1,2-Dichloroethane, CAS: 107-06-2

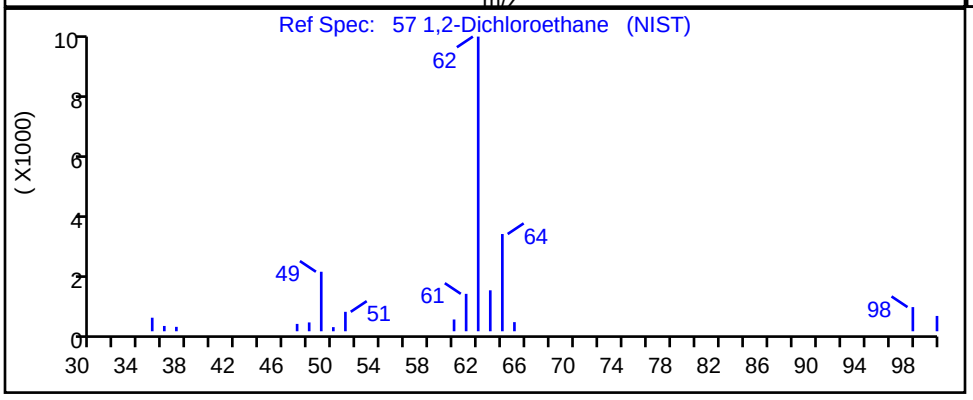
Processing Results











RT	Mass	Response	Amount
4.08	62.00	4946	1.711156
4.08	64.00	761	

Reviewer: desais, 07-Jul-2018 11:51:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

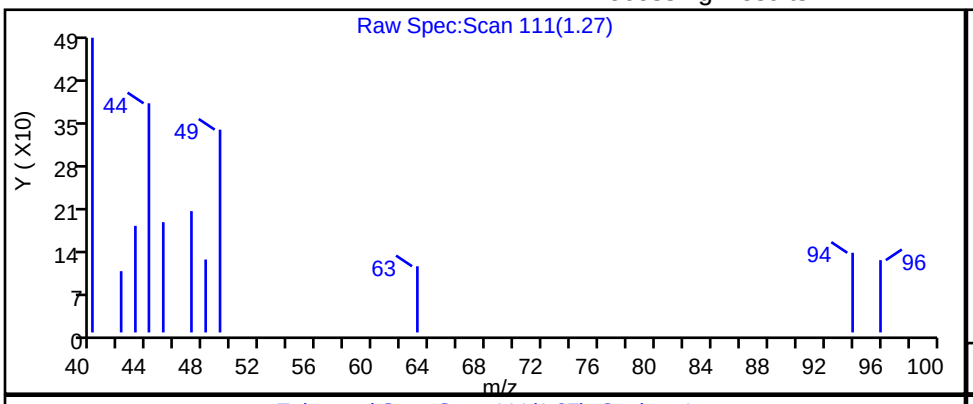
User Disabled Compound Report

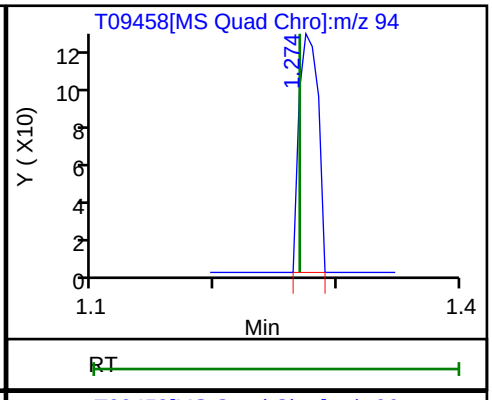
TestAmerica Edison

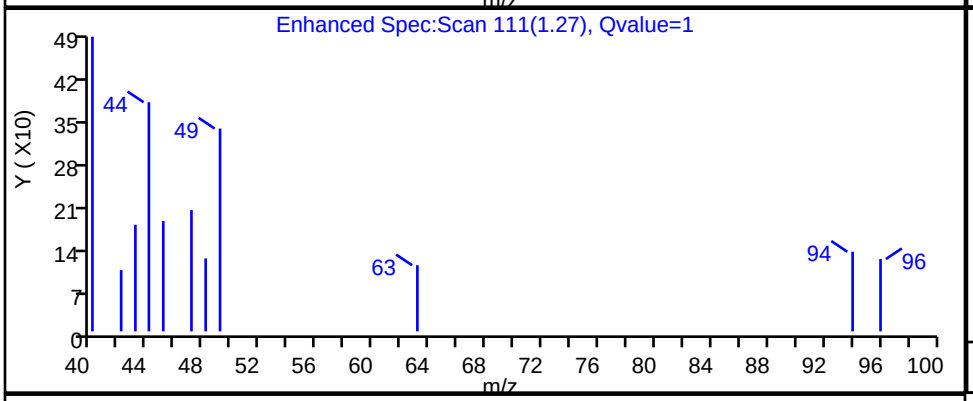
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09458.D				
Injection Date:	07-Jul-2018 11:26:46	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-1	Lab Sample ID:	460-159208-1		
Client ID:	PDI-TB-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	8
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

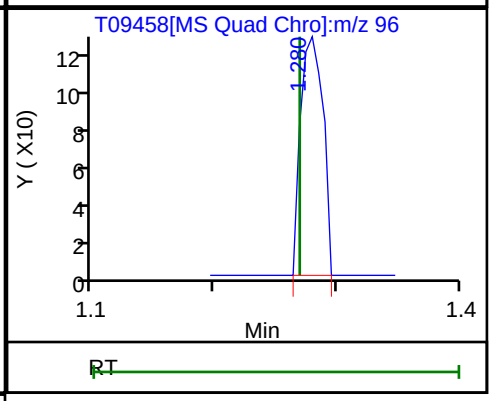
6 Bromomethane, CAS: 74-83-9

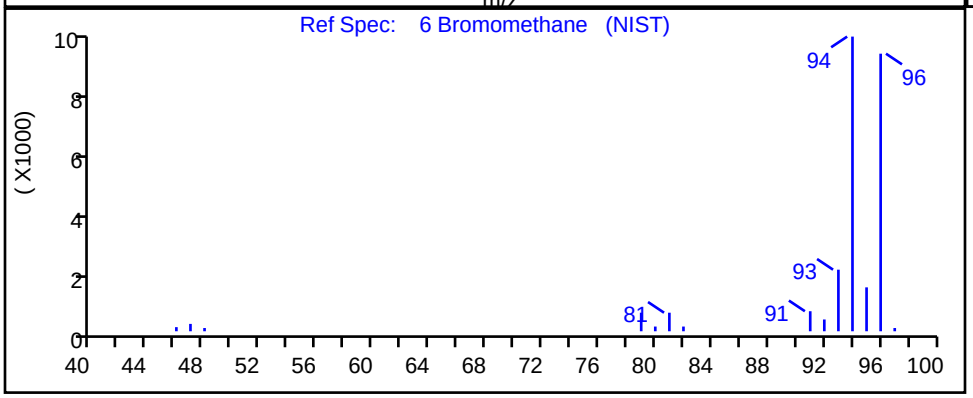
Processing Results











RT	Mass	Response	Amount
1.27	94.00	141	0.644731
1.28	96.00	161	

Reviewer: desais, 07-Jul-2018 11:51:32

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-FB-06252018 | Lab Sample ID: 460-159208-2

Matrix: Water | Lab File ID: T09459.D

Analysis Method: 8260C | Date Collected: 06/25/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	9.8		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	16		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND	*	1.0	0.54
74-83-9	Bromomethane	ND	*	1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND	*	1.0	0.28
75-00-3	Chloroethane	ND	*	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-FB-06252018 | Lab Sample ID: 460-159208-2

Matrix: Water | Lab File ID: T09459.D

Analysis Method: 8260C | Date Collected: 06/25/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:51

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	4.9		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		74-132
460-00-4	4-Bromofluorobenzene	115		77-124
2037-26-5	Toluene-d8 (Surr)	108		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D
Lims ID: 460-159208-A-2
Client ID: PDI-FB-06252018
Sample Type: Client
Inject. Date: 07-Jul-2018 11:51:50 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159208-A-2
Misc. Info.: 460-0075030-009
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:43:24 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: colladox Date: 08-Jul-2018 19:29:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	1.830	1.830	0.000	75	5147	15.7	
26 Methylene Chloride	84	2.108	2.103	0.005	89	12107	4.91	
* 27 TBA-d9 (IS)	66	2.134	2.140	-0.006	100	21833	1000.0	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	148508	250.0	
41 2-Butanone (MEK)	43	3.062	3.062	0.000	95	5856	9.77	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	90022	54.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.749	0.005	97	98137	54.0	
* 61 Fluorobenzene	96	4.080	4.080	0.000	99	404815	50.0	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	22	20772	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.852	5.846	0.006	99	347955	54.0	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	86	329328	50.0	
94 m-Xylene & p-Xylene	106	8.222	8.222	0.000	47	1399	0.3006	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	123631	57.3	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.478	0.005	96	170953	50.0	
S 132 Xylenes, Total	100				0		0.3006	

Reagents:

VOA6IS ONLY_00008 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Jul-2018 19:43:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D

Injection Date: 07-Jul-2018 11:51:50 Instrument ID: CVOAMS15

Lims ID: 460-159208-A-2 Lab Sample ID: 460-159208-2

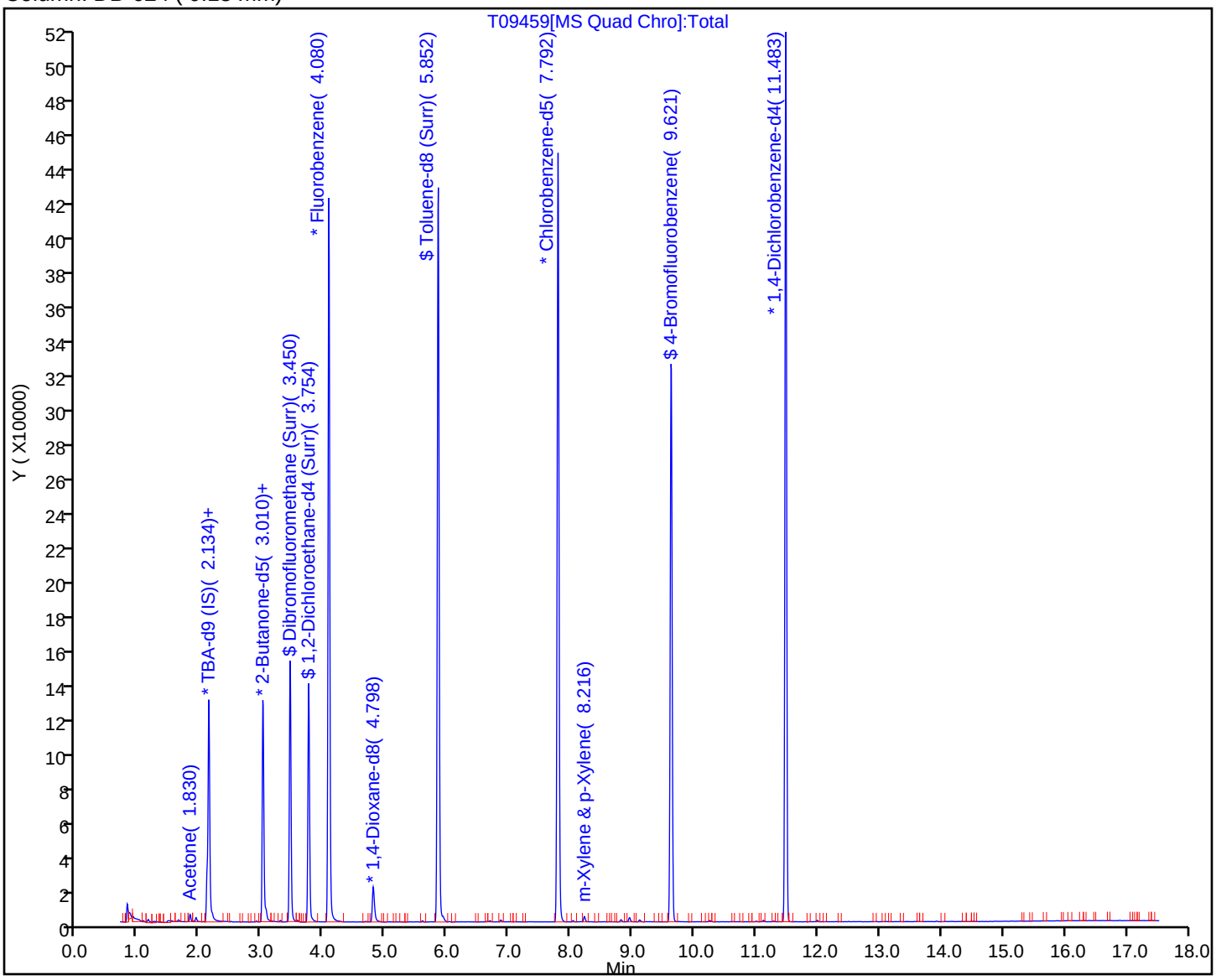
Client ID: PDI-FB-06252018

Operator ID: ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

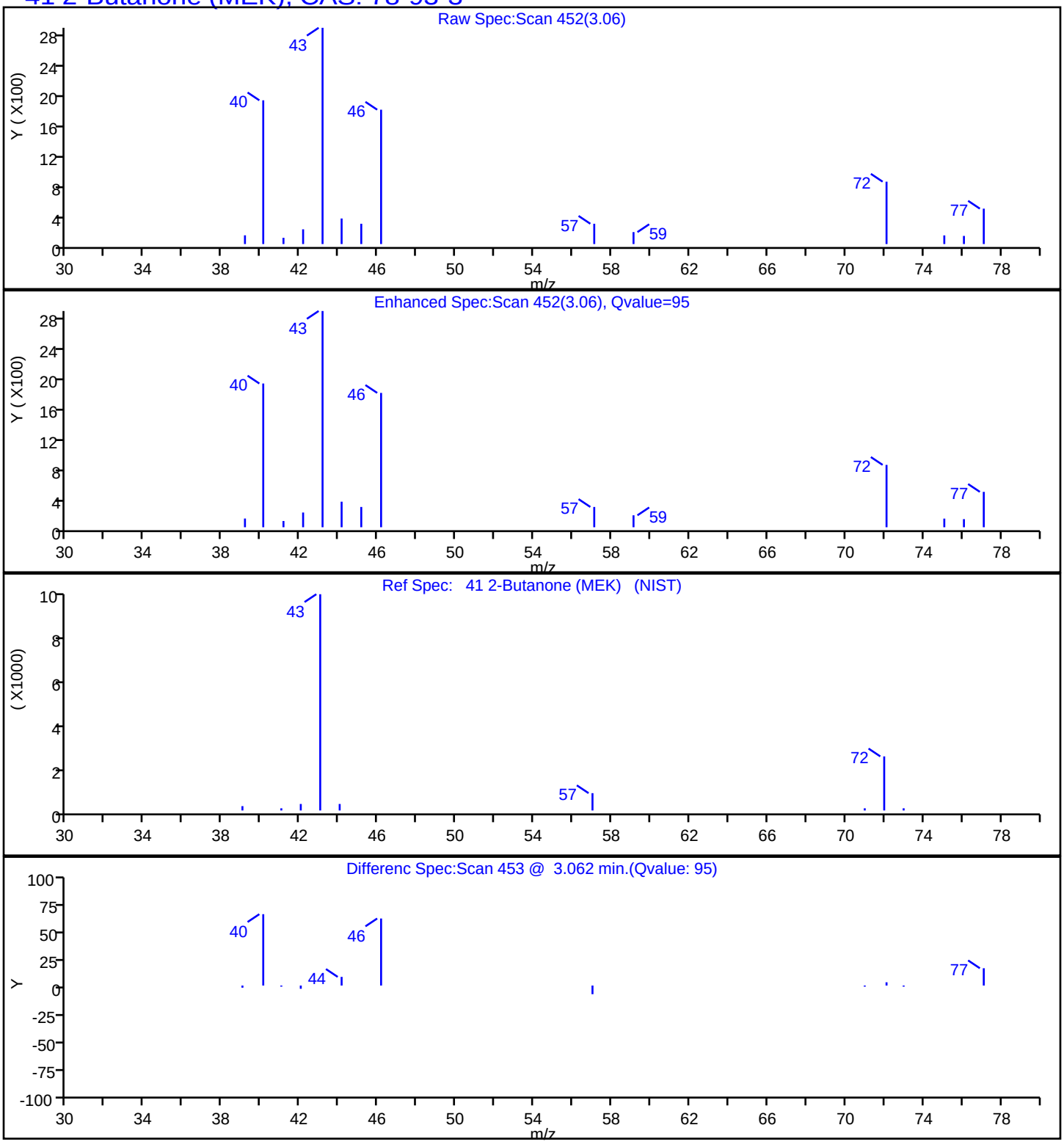
Column: DB-624 (0.18 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D				
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2		
Client ID:	PDI-FB-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

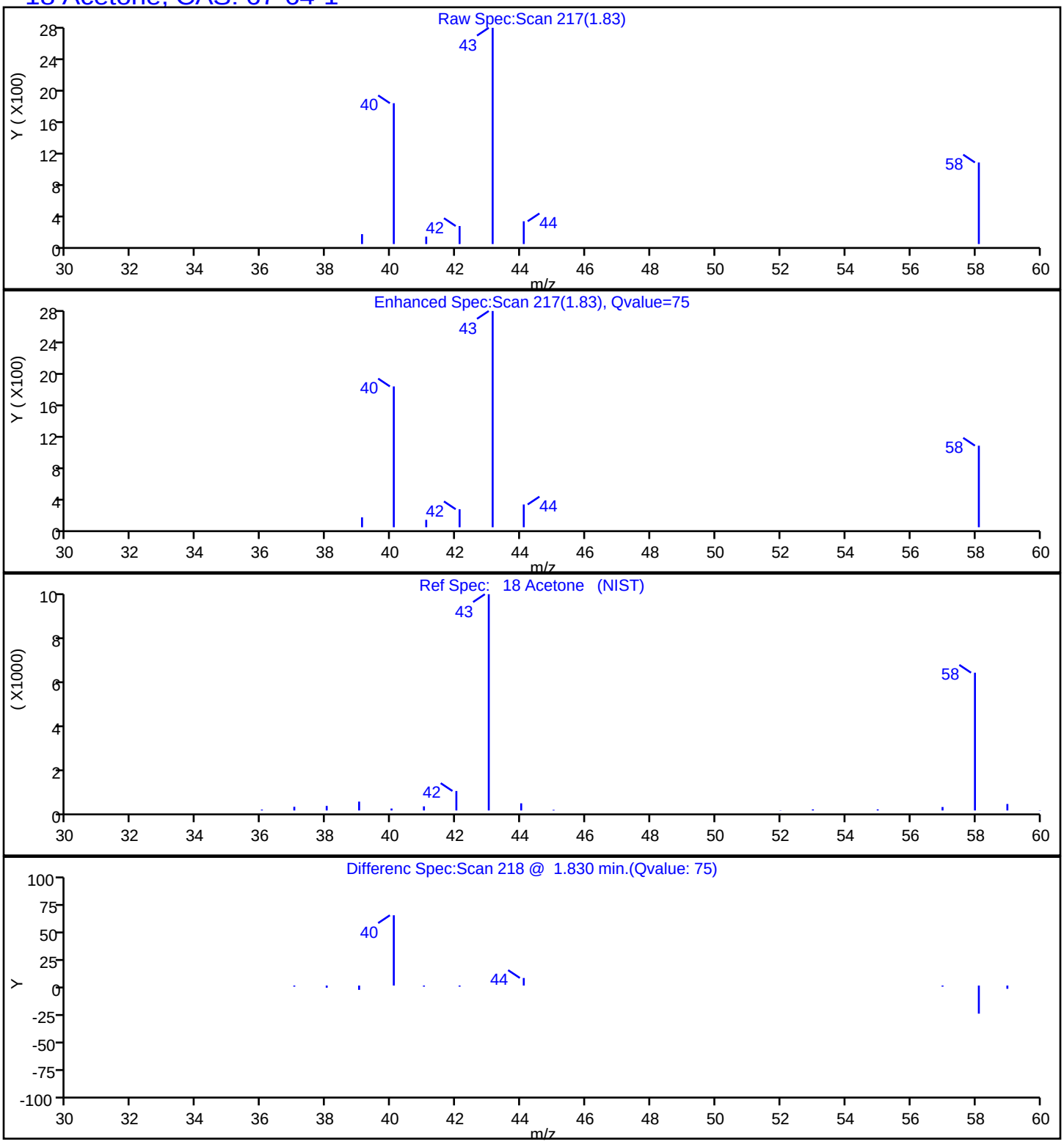
41 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D		
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2
Client ID:	PDI-FB-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

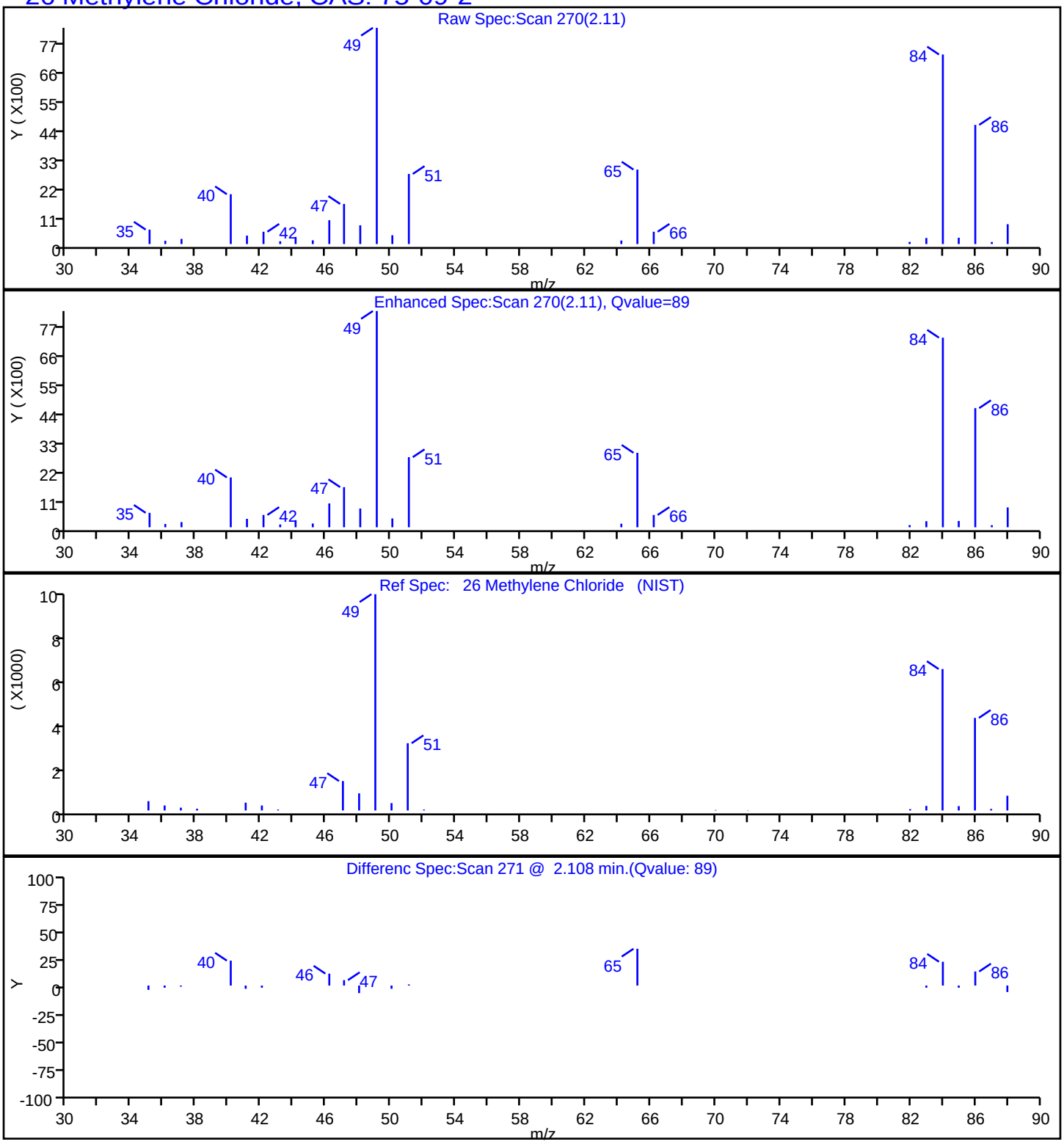
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D		
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2
Client ID:	PDI-FB-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

26 Methylene Chloride, CAS: 75-09-2



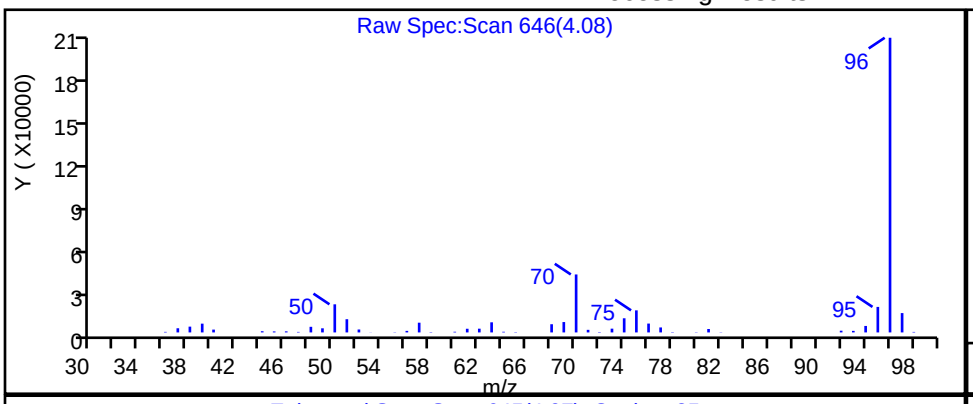
User Disabled Compound Report

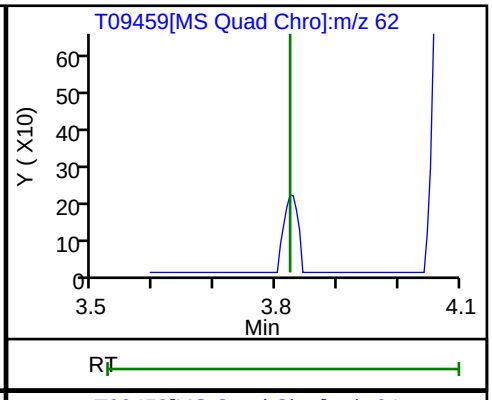
TestAmerica Edison

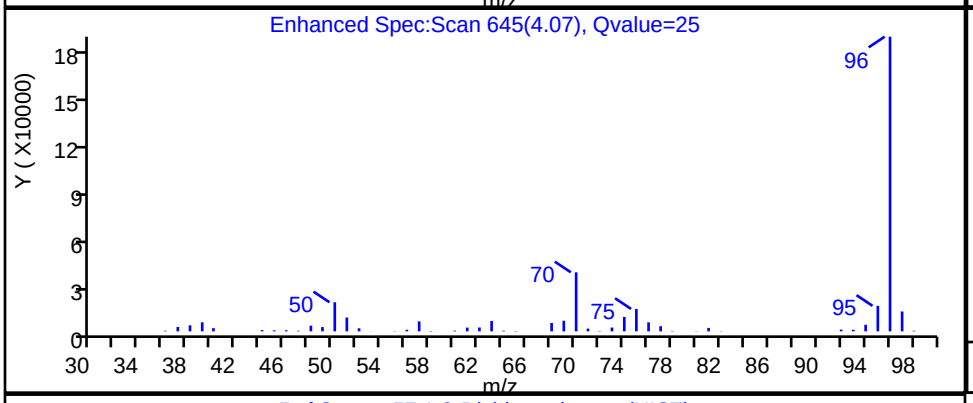
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D				
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2		
Client ID:	PDI-FB-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

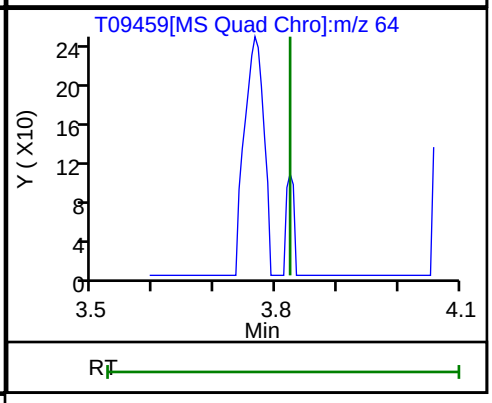
57 1,2-Dichloroethane, CAS: 107-06-2

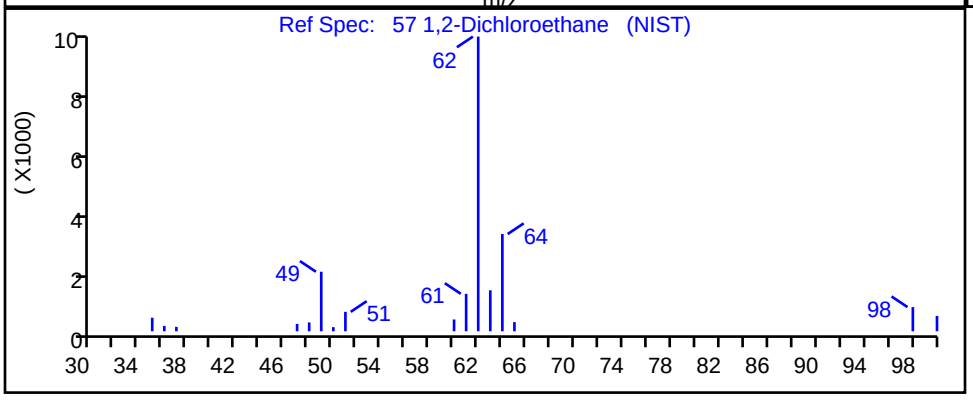
Processing Results











RT	Mass	Response	Amount
4.08	62.00	5054	1.713487
4.08	64.00	838	

Reviewer: colladox, 08-Jul-2018 19:28:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

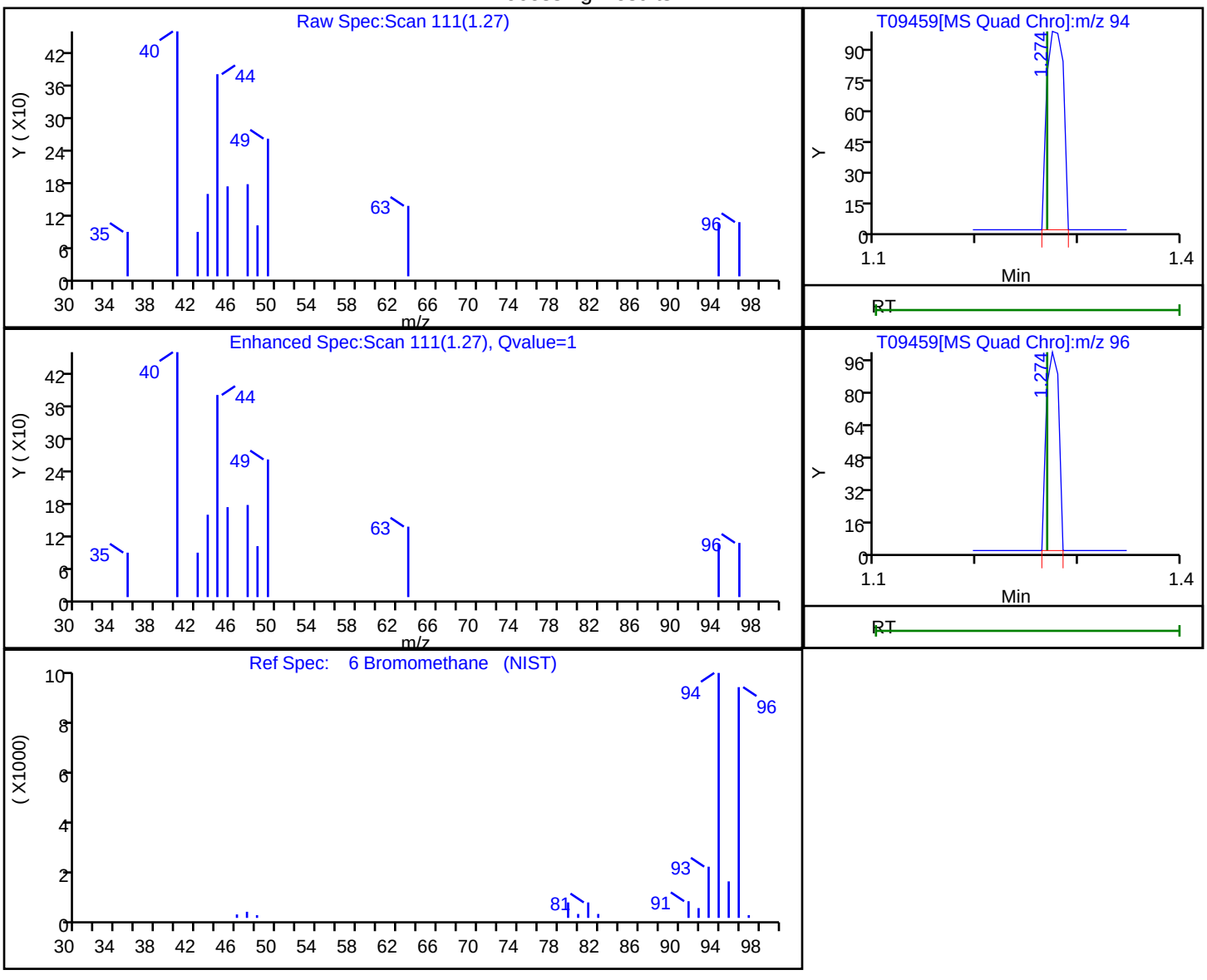
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D		
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2
Client ID:	PDI-FB-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.27	94.00	113	0.499477
1.27	96.00	86	

Reviewer: colladox, 08-Jul-2018 19:28:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

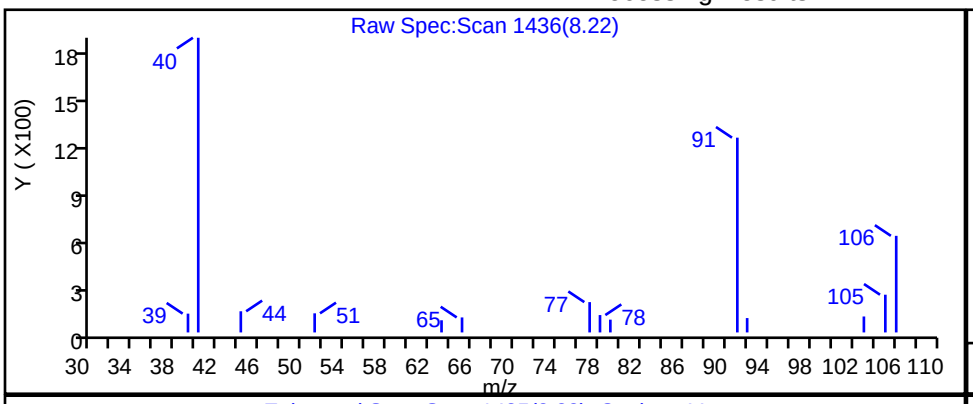
User Disabled Compound Report

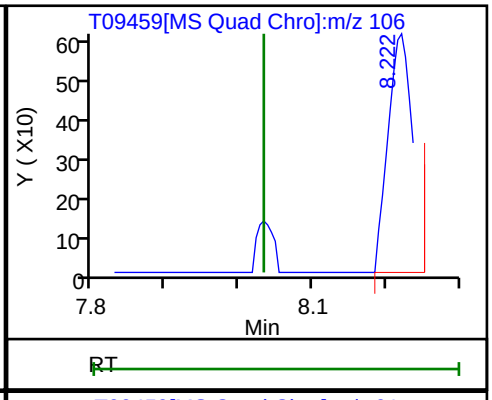
TestAmerica Edison

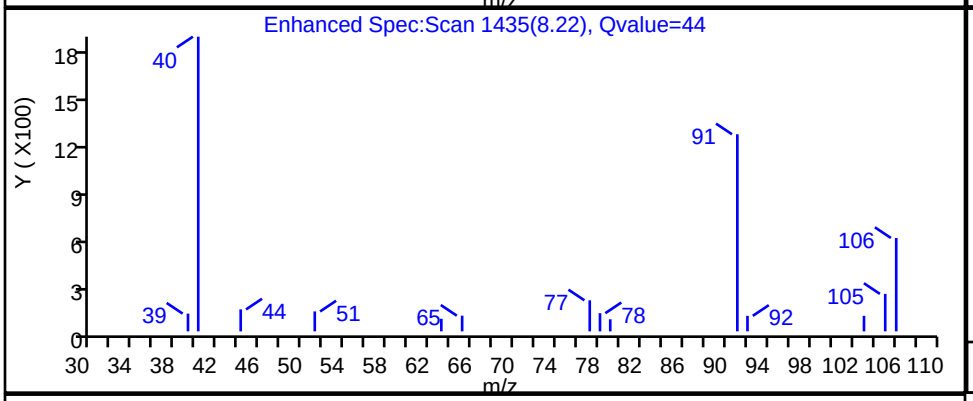
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09459.D		
Injection Date:	07-Jul-2018 11:51:50	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-2	Lab Sample ID:	460-159208-2
Client ID:	PDI-FB-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

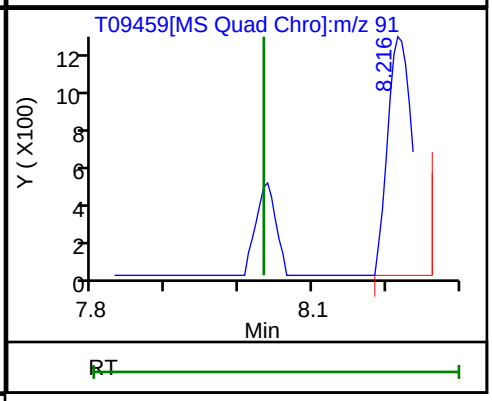
93 Ethylbenzene, CAS: 100-41-4

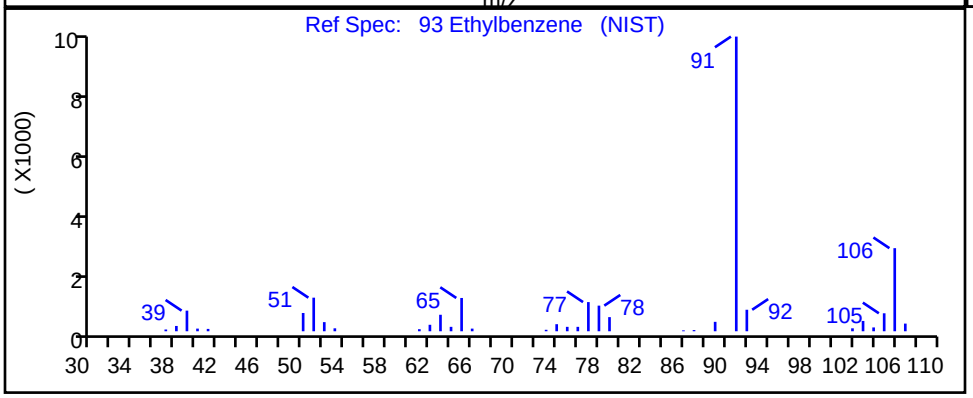
Processing Results











RT	Mass	Response	Amount
8.22	106.00	1399	0.368922
8.22	91.00	2920	

Reviewer: colladox, 08-Jul-2018 19:28:45

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-IS-WG-75-06252018 | Lab Sample ID: 460-159208-3

Matrix: Water | Lab File ID: T09460.D

Analysis Method: 8260C | Date Collected: 06/25/2018 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 12:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.46	J	1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	8.4		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND	*	1.0	0.54
74-83-9	Bromomethane	ND	*	1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND	*	1.0	0.28
75-00-3	Chloroethane	ND	*	1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: PDI-IS-WG-75-06252018 | Lab Sample ID: 460-159208-3

Matrix: Water | Lab File ID: T09460.D

Analysis Method: 8260C | Date Collected: 06/25/2018 11:25

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 12:16

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.48	J	1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	15		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	117		77-124
2037-26-5	Toluene-d8 (Surr)	109		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D
Lims ID: 460-159208-A-3
Client ID: PDI-IS-WG-75-06252018
Sample Type: Client
Inject. Date: 07-Jul-2018 12:16:57 ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159208-A-3
Misc. Info.: 460-0075030-010
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:44:01 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: colladox Date: 08-Jul-2018 19:30:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	1.830	1.830	0.000	51	2754	8.42	
* 27 TBA-d9 (IS)	66	2.134	2.140	-0.006	99	21823	1000.0	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	147793	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	90192	54.6	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	1	1669	0.4624	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.749	0.005	97	98620	54.8	
* 61 Fluorobenzene	96	4.079	4.080	-0.001	99	400986	50.0	
64 Trichloroethene	95	4.452	4.452	0.000	98	37092	14.6	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	22	20318	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.852	5.846	0.006	99	348427	54.5	
84 Tetrachloroethene	166	6.633	6.633	0.000	19	1255	0.4762	
* 90 Chlorobenzene-d5	117	7.791	7.792	-0.001	86	326365	50.0	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	125046	58.5	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.478	0.005	96	169780	50.0	

Reagents:

VOA6IS ONLY_00008 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Jul-2018 19:44:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D

Injection Date: 07-Jul-2018 12:16:57 Instrument ID: CVOAMS15

Lims ID: 460-159208-A-3 Lab Sample ID: 460-159208-3

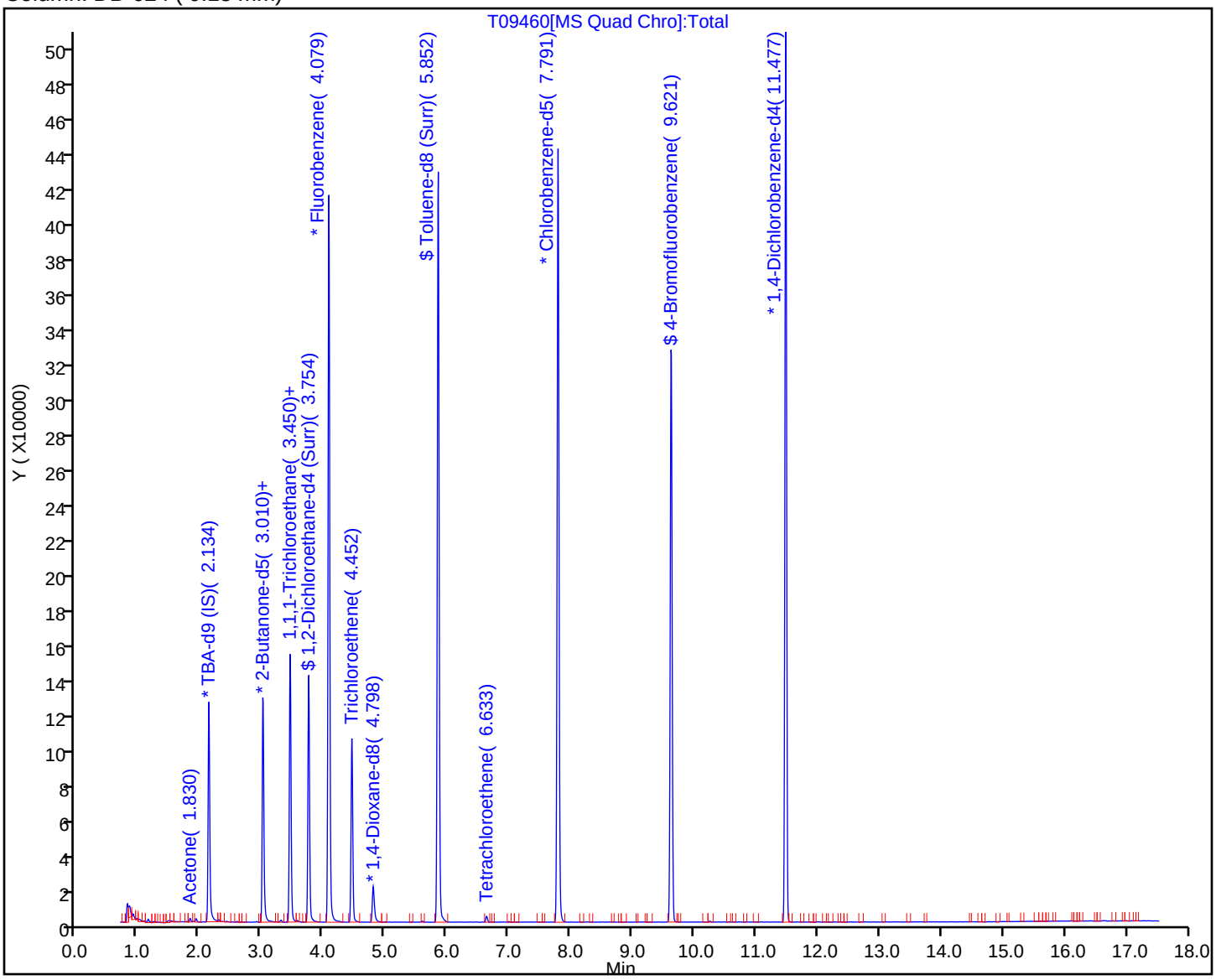
Client ID: PDI-IS-WG-75-06252018

Operator ID: ALS Bottle#: 0 Worklist Smp#: 10

Purge Vol: 5.000 mL Dil. Factor: 1.0000

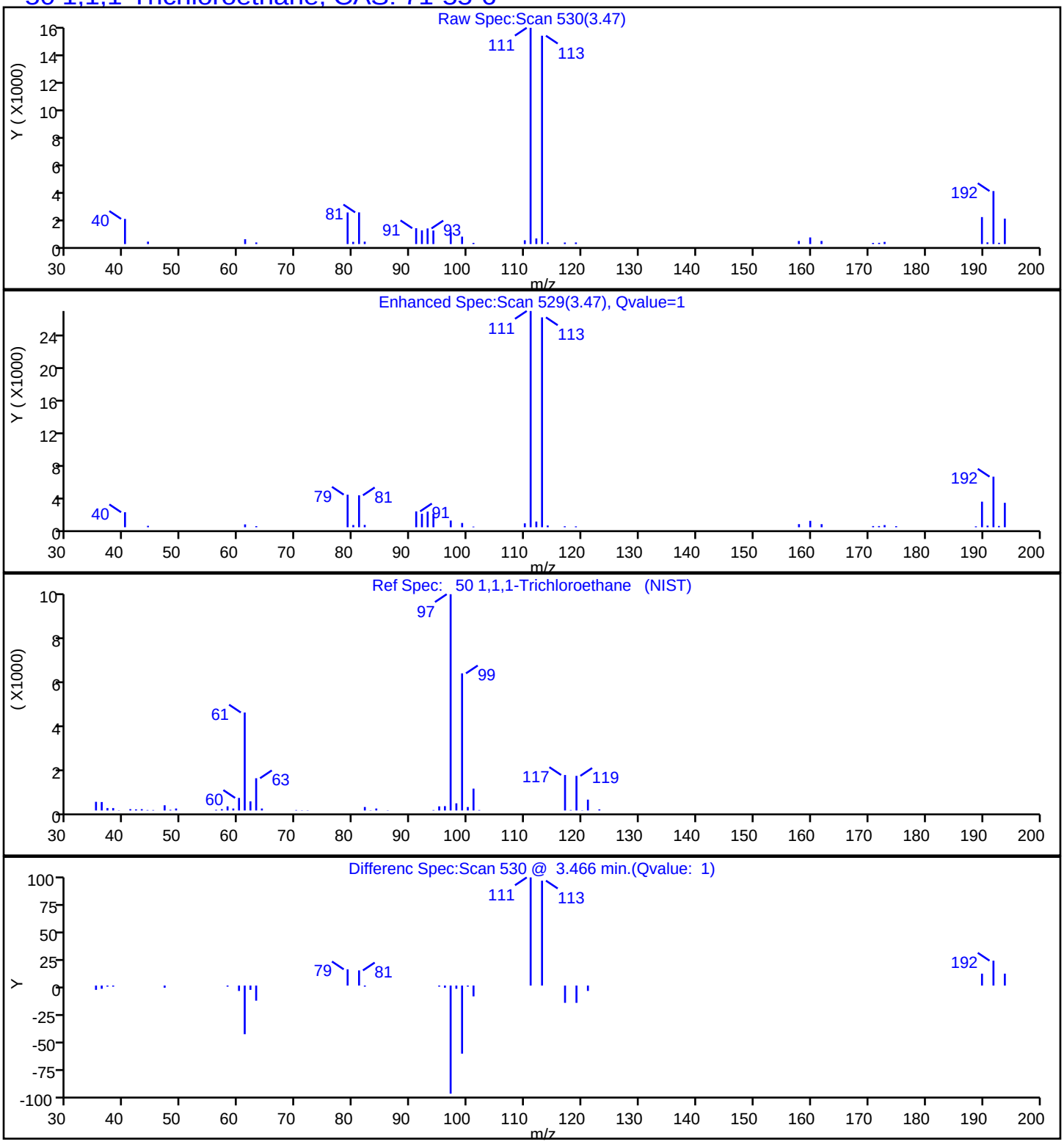
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D
Injection Date: 07-Jul-2018 12:16:57 Instrument ID: CVOAMS15
Lims ID: 460-159208-A-3 Lab Sample ID: 460-159208-3
Client ID: PDI-IS-WG-75-06252018
Operator ID: ALS Bottle#: 0 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

50 1,1,1-Trichloroethane, CAS: 71-55-6

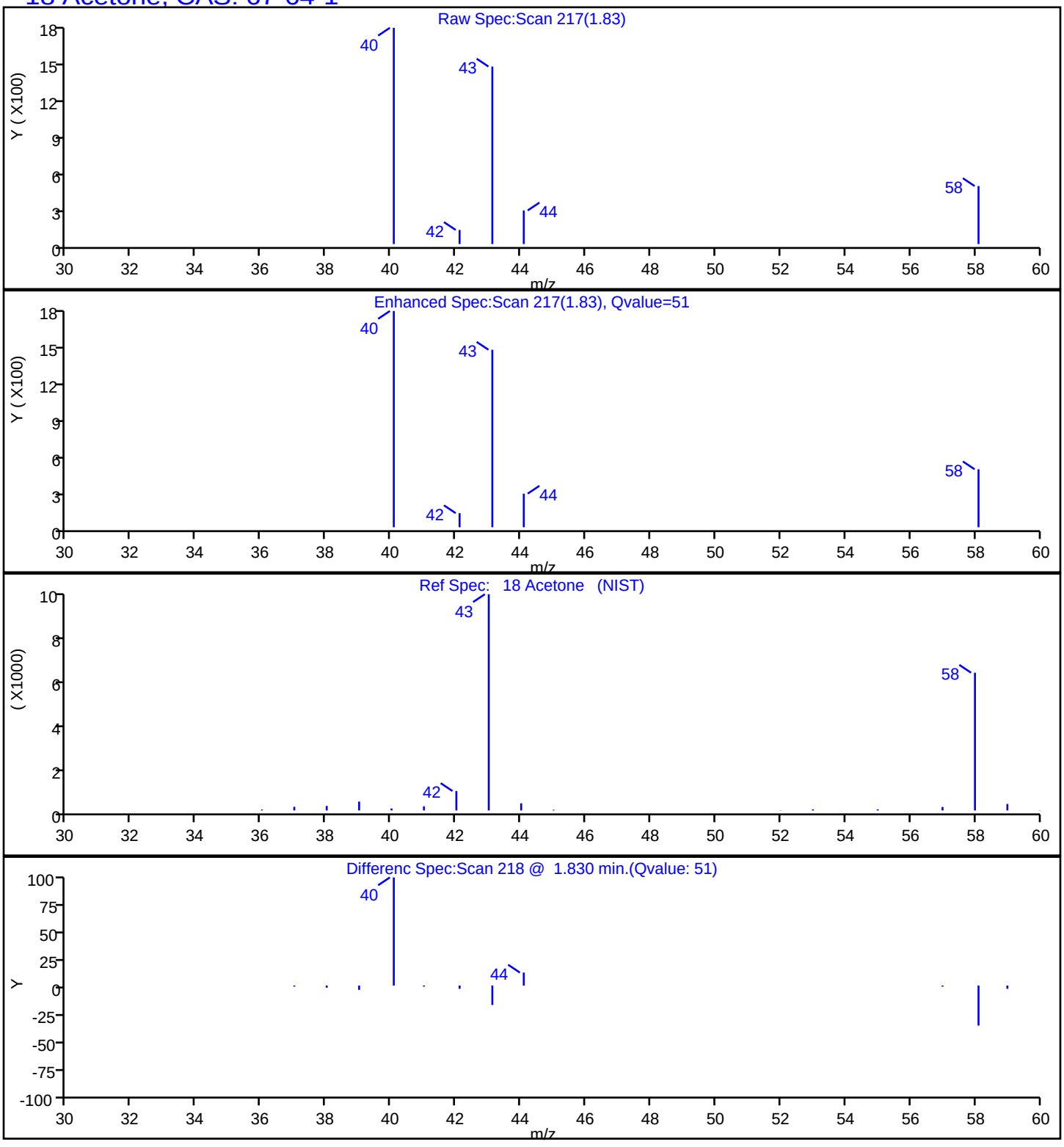


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D

Injection Date:	07-Jul-2018 12:16:57	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-3	Lab Sample ID:	460-159208-3
Client ID:	PDI-IS-WG-75-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

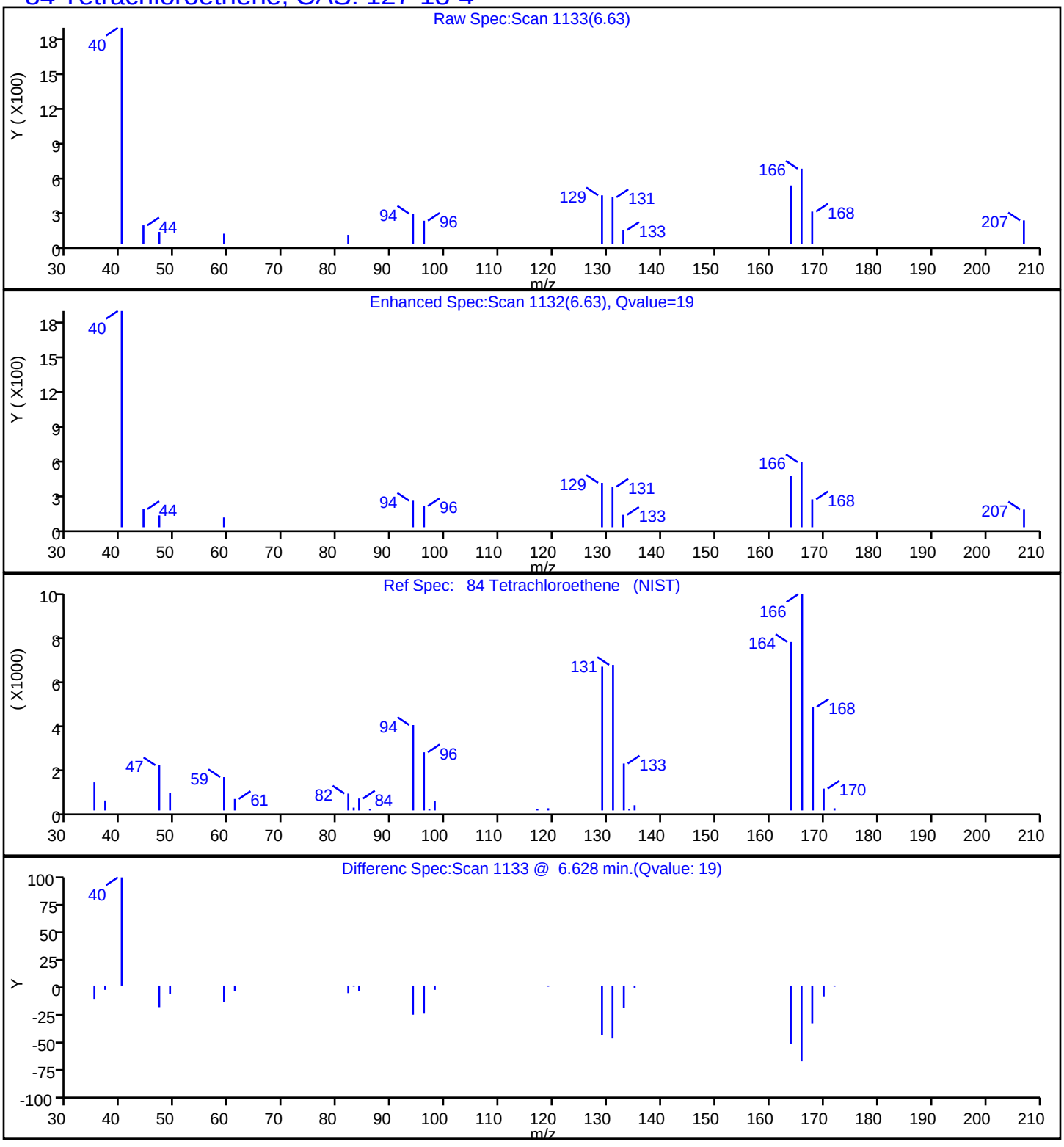
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D		
Injection Date:	07-Jul-2018 12:16:57	Instrument ID:	CVOAMS15
Lims ID:	460-159208-A-3	Lab Sample ID:	460-159208-3
Client ID:	PDI-IS-WG-75-06252018		
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

84 Tetrachloroethene, CAS: 127-18-4



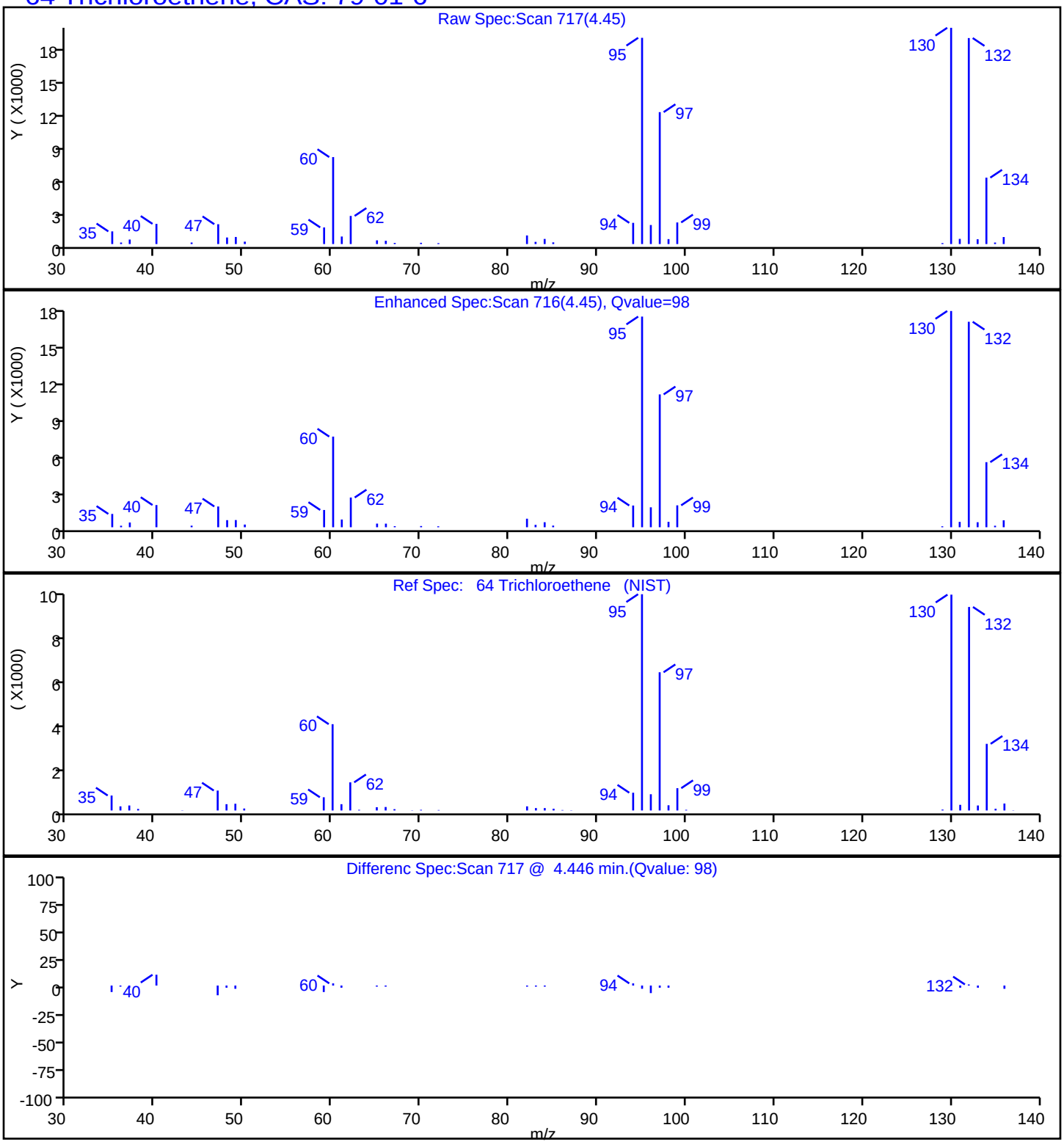
Report Date: 09-Jul-2018 19:44:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D

Injection Date:	07-Jul-2018 12:16:57	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-3	Lab Sample ID:	460-159208-3		
Client ID:	PDI-IS-WG-75-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

64 Trichloroethene, CAS: 79-01-6



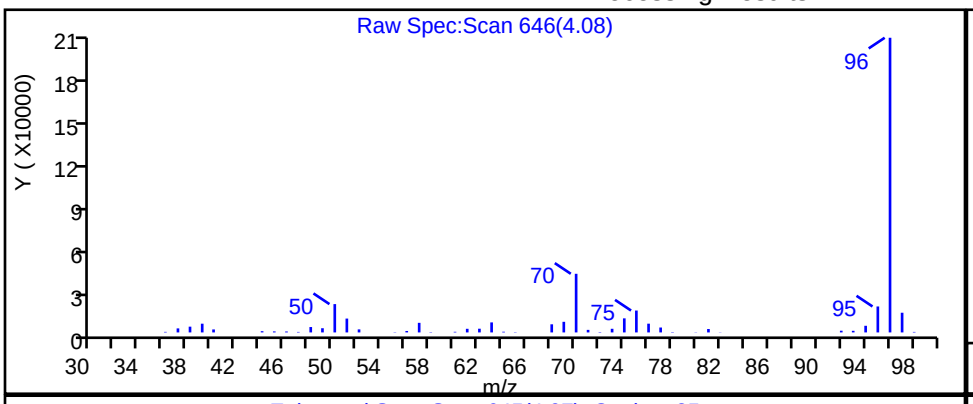
User Disabled Compound Report

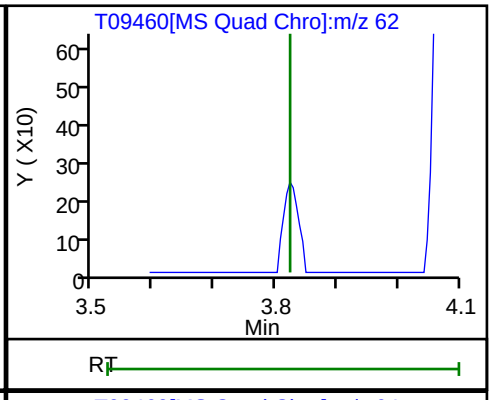
TestAmerica Edison

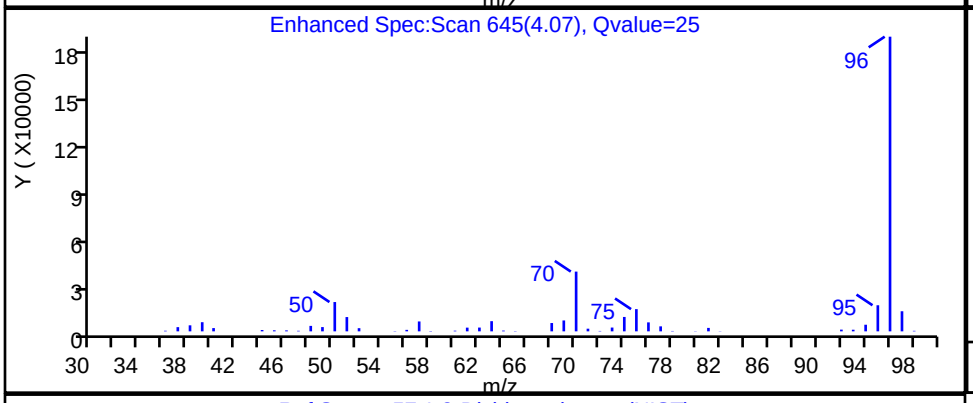
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D				
Injection Date:	07-Jul-2018 12:16:57	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-3	Lab Sample ID:	460-159208-3		
Client ID:	PDI-IS-WG-75-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

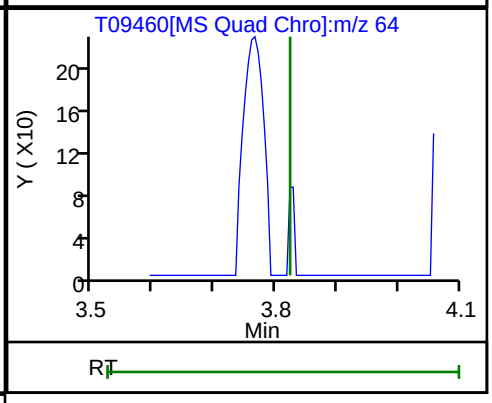
57 1,2-Dichloroethane, CAS: 107-06-2

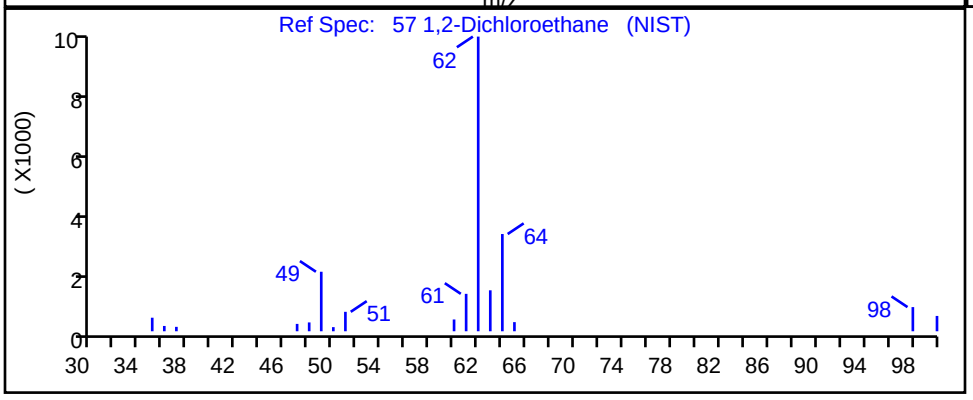
Processing Results











RT	Mass	Response	Amount
4.08	62.00	4899	1.676796
4.08	64.00	863	

Reviewer: colladox, 08-Jul-2018 19:29:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

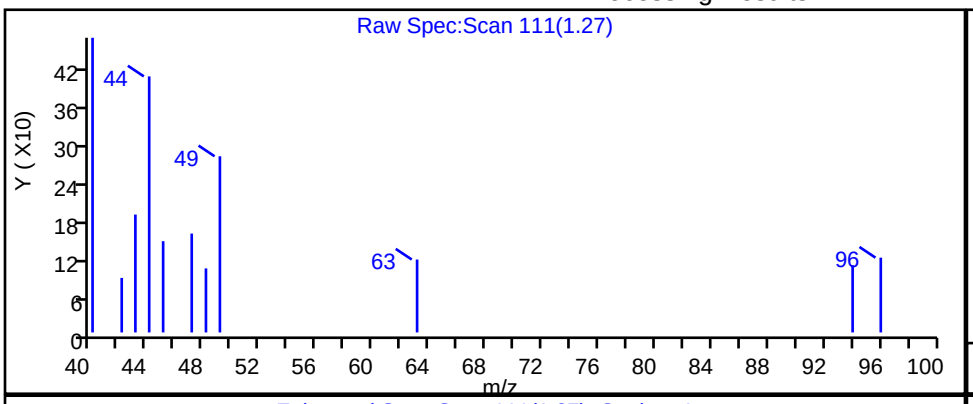
User Disabled Compound Report

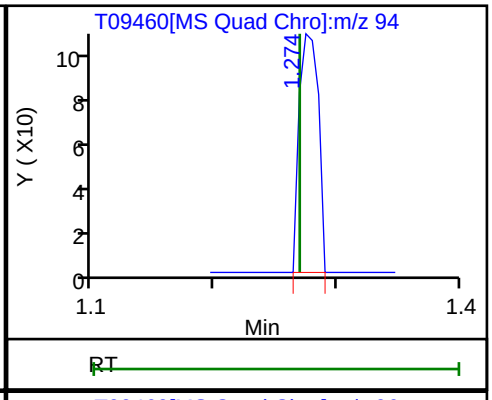
TestAmerica Edison

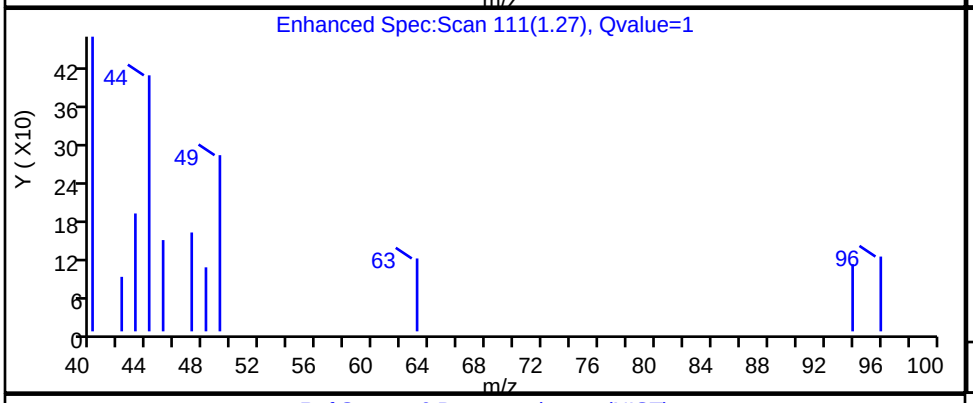
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09460.D				
Injection Date:	07-Jul-2018 12:16:57	Instrument ID:	CVOAMS15		
Lims ID:	460-159208-A-3	Lab Sample ID:	460-159208-3		
Client ID:	PDI-IS-WG-75-06252018				
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

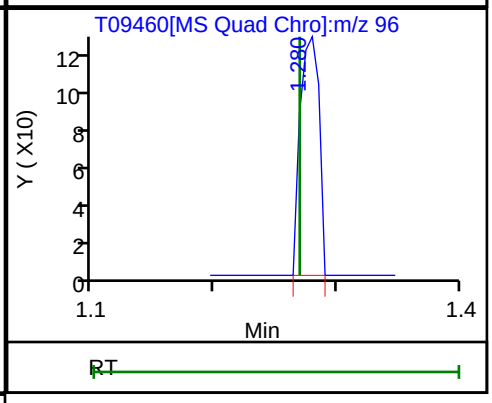
6 Bromomethane, CAS: 74-83-9

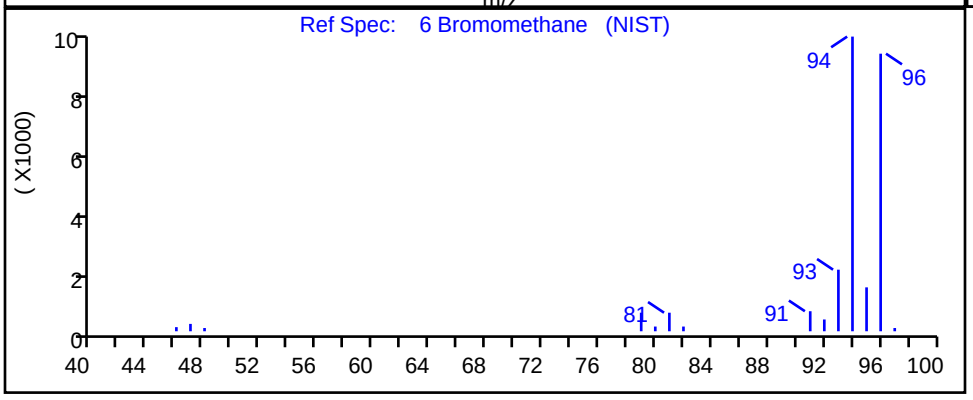
Processing Results











RT	Mass	Response	Amount
1.27	94.00	116	0.515218
1.28	96.00	135	

Reviewer: delpolitov, 09-Jul-2018 19:43:51

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-529548/2	T08676.D
Level 2	STD05 460-529548/3	T08677.D
Level 3	STD1 460-529548/4	T08678.D
Level 4	STD5 460-529548/5	T08679.D
Level 5	STD20 460-529548/6	T08680.D
Level 6	STD50 460-529548/7	T08681.D
Level 7	STD200 460-529548/8	T08682.D
Level 8	STD500 460-529548/9	T08683.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.1196	0.1045 0.1494	0.1101 0.1530	0.1034	0.1111	Ave		0.1216				17.2		20.0			
Dichlorodifluoromethane	+++++ 0.2821	0.2908 0.3812	0.2929 0.3673	0.3008	0.2791	Ave		0.3135			0.1000	13.5		20.0			
Chloromethane	+++++ 0.1815	0.2825 0.2296	0.2244 0.2396	0.1932	0.1859	Ave		0.2195			0.1000	16.4		20.0			
Vinyl chloride	+++++ 0.2138	0.2521 0.2411	0.2228 0.2233	0.2186	0.2124	Ave		0.2263			0.1000	6.5		20.0			
Butadiene	0.1803 0.1735	0.2075 0.1896	0.1756 0.1742	0.2088	0.1780	Ave		0.1859				7.9		20.0			
Bromomethane	+++++ 0.2805	0.3728 0.3903	0.2022 0.3793	0.2680	0.3575	QuaF		0.3809	-0.000002		0.1000				0.9990		0.9900
Chloroethane	+++++ 0.5013	0.7849 0.5444	1.1008 +++++	0.9189	0.6702	QuaF		0.5298	0.0000713		0.1000				0.9980		0.9900
Dichlorofluoromethane	+++++ 0.3101	0.4231 0.3163	0.3456 0.2378	0.3433	0.3163	Ave		0.3275				16.9		20.0			
Trichlorofluoromethane	+++++ 0.4005	0.4326 0.4485	0.4254 0.4012	0.4244	0.4022	Ave		0.4192			0.1000	4.4		20.0			
Pentane	+++++ 0.0461	0.0547 0.0478	0.0501 0.0383	0.0443	0.0446	Ave		0.0466				11.0		20.0			
Ethanol	+++++ 0.3112	0.8207 0.2720	0.5596 0.1718	0.3943	0.3368	QuaF		0.3375	-0.000008						1.0000		0.9900
Ethyl ether	+++++ 0.2068	0.2377 0.1847	0.2169 +++++	0.2247	0.2100	Ave		0.2135				8.4		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2432	0.3041 0.2450	0.2690 0.2141	0.2490	0.2329	Ave		0.2511				11.4		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2015	0.2528 0.1859	0.2346 +++++	0.2108	0.2029	Ave		0.2147				11.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 5.5741	7.5479 5.7523	6.0707 4.2002	6.2786	5.8629	Ave		5.8981				16.8		20.0			
1,1-Dichloroethene	+++++ 0.2552	0.2420 0.2650	0.2440 0.2444	0.2583	0.2450	Ave		0.2505			0.1000	3.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2524	0.2634 0.2622	0.2445 0.2491	0.2391	0.2388	Ave		0.2499			0.1000	4.0		20.0			
Acetone	+++++ 0.5820	1.0761 0.5741	0.9036 0.6130	0.6665	0.5847	QuaF		0.5529	0.0000240		0.0500				1.0000		0.9900
Iodomethane	+++++ 0.1671	0.0820 0.2322	0.0571 0.2027	0.0678	0.1090	QuaF		0.2374	-0.000068						0.9980		0.9900
Carbon disulfide	+++++ 0.7175	0.9045 0.7426	0.7859 0.6794	0.7733	0.7007	Ave		0.7577			0.1000	9.9		20.0			
Isopropyl alcohol	+++++ 3.4966	5.7176 3.1959	4.5651 2.3991	3.9539	3.6628	QuaF		3.7139	-0.000263						1.0000		0.9900
Acetonitrile	+++++ 0.1755	0.2139 0.1593	0.2091 0.1585	0.1938	0.1753	Ave		0.1836				12.2		20.0			
Allyl chloride	+++++ 0.2048	0.2021 0.1983	0.1937 0.1884	0.2105	0.1986	Ave		0.1995				3.6		20.0			
Methyl acetate	+++++ 0.1806	0.1769 0.1725	0.1993 0.1493	0.1943	0.1838	Ave		0.1795			0.1000	9.1		20.0			
Cyclopentene	+++++ 0.6187	0.6693 0.6029	0.6708 0.5465	0.6183	0.5794	Ave		0.6151				7.3		20.0			
Methylene Chloride	+++++ 0.2898	0.3242 0.2932	0.3454 0.2743	0.3207	0.2841	Ave		0.3045			0.1000	8.5		20.0			
2-Methyl-2-propanol	+++++ 5.9226	11.068 5.8402	8.1490 4.3158	6.8988	6.1654	QuaF		6.7503	-0.000486						1.0000		0.9900
Acrylonitrile	0.1074 0.0961	0.1032 0.0821	0.1011 +++++	0.1049	0.0993	Ave		0.0992				8.4		20.0			
trans-1,2-Dichloroethene	+++++ 0.2921	0.3073 0.2845	0.3111 0.2227	0.3048	0.2826	Ave		0.2865			0.1000	10.6		20.0			
Methyl tert-butyl ether	+++++ 0.7796	0.8056 0.7171	0.7752 0.5655	0.8298	0.7875	Ave		0.7515			0.1000	11.8		20.0			
Hexane	+++++ 0.3395	0.3756 0.3389	0.3388 0.3108	0.3188	0.3295	Ave		0.3360				6.2		20.0			
1,1-Dichloroethane	+++++ 0.4827	0.5497 0.4812	0.5065 0.4353	0.5222	0.4818	Ave		0.4942			0.2000	7.4		20.0			
Vinyl acetate	+++++ 0.6115	0.6606 0.6246	0.5747 0.5988	0.6291	0.5993	Ave		0.6141				4.5		20.0			
Isopropyl ether	+++++ 0.7926	0.8379 0.6319	0.8361 +++++	0.8625	0.8127	Ave		0.7956				10.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.2815	0.2960 0.2663	0.2796 0.2077	0.2933	0.2747	Ave		0.2713				11.0		20.0			
Tert-butyl ethyl ether	+++++ 0.8152	0.8095 0.7476	0.8284 0.6556	0.8555	0.8169	Ave		0.7898				8.6		20.0			
2,2-Dichloropropane	+++++ 0.1037	0.1458 0.1030	0.1026 0.0890	0.1218	0.1035	Ave		0.1099				16.8		20.0			
cis-1,2-Dichloroethene	+++++ 0.3332	0.3373 0.3334	0.3543 0.3005	0.3564	0.3269	Ave		0.3346			0.1000	5.6		20.0			
2-Butanone (MEK)	+++++ 0.9432	1.2693 0.8951	1.0732 0.9235	1.0366	0.9215	Ave		1.0089			0.0500	13.1		20.0			
Propionitrile	+++++ 8.0860	10.009 7.0339	9.2291 +++++	9.3371	8.5238	Ave		8.7031				12.1		20.0			
Ethyl acetate	+++++ 0.2848	0.3859 0.2783	0.3183 0.2998	0.2841	0.2780	Ave		0.3042				12.8		20.0			
Methyl acrylate	+++++ 0.2662	0.2753 0.2958	0.2797 0.2706	0.2679	0.2619	Ave		0.2739				4.1		20.0			
Methacrylonitrile	+++++ 0.1136	0.1164 0.0889	0.1170 +++++	0.1239	0.1167	Ave		0.1128				10.8		20.0			
Chlorobromomethane	+++++ 0.1432	0.1609 0.1355	0.1523 0.1178	0.1554	0.1447	Ave		0.1443				10.0		20.0			
Tetrahydrofuran	+++++ 0.3340	0.4240 0.3468	0.3657 0.3779	0.3555	0.3303	Ave		0.3620				8.9		20.0			
Chloroform	+++++ 0.4936	0.5281 0.4777	0.5179 0.4405	0.5264	0.4914	Ave		0.4965			0.2000	6.3		20.0			
1,1,1-Trichloroethane	+++++ 0.4398	0.4956 0.4389	0.4694 0.4088	0.4641	0.4337	Ave		0.4500			0.1000	6.3		20.0			
Cyclohexane	+++++ 0.4147	0.4404 0.4217	0.4488 0.4013	0.4016	0.3970	Ave		0.4179			0.1000	4.9		20.0			
Carbon tetrachloride	+++++ 0.3761	0.4323 0.3786	0.3888 0.3480	0.3779	0.3657	Ave		0.3811			0.1000	6.8		20.0			
1,1-Dichloropropene	+++++ 0.3866	0.4269 0.3651	0.4083 0.3001	0.4085	0.3819	Ave		0.3825				10.9		20.0			
Isobutyl alcohol	+++++ 2.3451	2.4245 2.2221	2.4382 +++++	2.5215	2.4112	Ave		2.3938				4.2		20.0			
Benzene	+++++ 1.4427	1.6957 1.3156	1.6283 +++++	1.6225	1.4761	Ave		1.5302			0.5000	9.3		20.0			
1,2-Dichloroethane	+++++ 0.3475	0.4711 0.3150	0.4086 0.2588	0.3937	0.3555	Ave		0.3643			0.1000	18.8		20.0			
2,2,4-Trimethylpentane	+++++ 0.6560	0.7362 0.6135	0.6609 0.5395	0.6000	0.6180	Ave		0.6320				9.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Isopropyl acetate	+++++ 0.1078	0.0879 0.1013	0.0922 0.0878	0.1086	0.1060	Ave		0.0988				9.4		20.0			
Tert-amyl methyl ether	+++++ 0.8165	0.7840 0.7532	0.8066 0.6630	0.8439	0.8096	Ave		0.7824				7.6		20.0			
n-Heptane	+++++ 0.2749	0.3557 0.2669	0.3203 0.2363	0.2557	0.2655	Ave		0.2822				14.6		20.0			
n-Butanol	+++++ 1.7159	1.6706 1.5570	1.8094 +++++	1.8417	1.7618	Ave		1.7261				6.0		20.0			
Trichloroethene	+++++ 0.3025	0.3379 0.3030	0.3691 0.2747	0.3303	0.3010	Ave		0.3169			0.2000	9.8		20.0			
Ethyl acrylate	+++++ 0.3519	0.3339 0.3656	0.3331 0.3550	0.3519	0.3470	Ave		0.3483				3.3		20.0			
Methylcyclohexane	+++++ 0.4536	0.4569 0.4641	0.4602 0.4407	0.4287	0.4341	Ave		0.4483			0.1000	3.1		20.0			
1,2-Dichloropropane	+++++ 0.2838	0.3010 0.2762	0.2882 0.2453	0.3020	0.2836	Ave		0.2829			0.1000	6.7		20.0			
Dibromomethane	+++++ 0.1766	0.2197 0.1756	0.2020 0.1516	0.1900	0.1765	Ave		0.1846				11.8		20.0			
Methyl methacrylate	+++++ 0.0835	0.0712 0.0846	0.0741 0.0832	0.0818	0.0810	Ave		0.0799				6.5		20.0			
1,4-Dioxane	+++++ 1.0591	0.9851 0.9962	0.9453 0.8902	1.1032	1.0342	Ave		1.0019				7.1		20.0			
n-Propyl acetate	+++++ 0.3599	0.3332 0.3509	0.3586 0.3326	0.3562	0.3522	Ave		0.3491				3.3		20.0			
Bromodichloromethane	+++++ 0.3814	0.3981 0.3866	0.3834 0.3598	0.3935	0.3781	Ave		0.3830			0.2000	3.2		20.0			
2-Nitropropane	+++++ 0.0598	0.0562 0.0600	0.0621 0.0589	0.0587	0.0593	Ave		0.0593				3.0		20.0			
2-Chloroethyl vinyl ether	+++++ 0.1852	0.1622 0.1847	0.1724 0.1885	0.1872	0.1818	Ave		0.1803				5.3		20.0			
Epichlorohydrin	0.2304 0.2523	0.2735 0.2495	0.2406 0.2453	0.2577	0.2474	Ave		0.2496				5.1		20.0			
cis-1,3-Dichloropropene	+++++ 0.5780	0.5946 0.5517	0.5791 0.4853	0.6173	0.5842	Ave		0.5700			0.2000	7.4		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.0297	2.0925 1.8574	1.9765 1.6800	2.0929	1.9794	Ave		1.9583			0.0500	7.5		20.0			
Toluene	+++++ 1.5409	1.8706 1.4595	1.7173 1.2064	1.6647	1.5365	Ave		1.5708			0.4000	13.4		20.0			
trans-1,3-Dichloropropene	+++++ 0.5265	0.5378 0.5102	0.5215 0.4532	0.5523	0.5290	Ave		0.5186			0.1000	6.1		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	+++++ 0.4510	0.4489 0.4408	0.4655 0.3961	0.4783	0.4540	Ave		0.4478				5.8		20.0			
1,1,2-Trichloroethane	+++++ 0.2588	0.2609 0.2550	0.2582 0.2331	0.2768	0.2631	Ave		0.2580			0.1000	5.0		20.0			
Tetrachloroethene	+++++ 0.3988	0.4137 0.4093	0.4049 0.3971	0.4133	0.3895	Ave		0.4038			0.2000	2.3		20.0			
1,3-Dichloropropane	+++++ 0.5427	0.5440 0.5240	0.5428 0.4652	0.5872	0.5552	Ave		0.5373				6.9		20.0			
2-Hexanone	+++++ 1.4103	1.4249 1.3531	1.4235 1.3068	1.4955	1.3933	Ave		1.4011			0.0500	4.3		20.0			
Dibromochloromethane	+++++ 0.3505	0.3427 0.3658	0.3390 0.3539	0.3535	0.3453	Ave		0.3501			0.1000	2.5		20.0			
n-Butyl acetate	+++++ 0.4801	0.4736 0.4404	0.5095 0.3766	0.5131	0.4820	Ave		0.4679				10.0		20.0			
1,2-Dibromoethane	+++++ 0.3263	0.3481 0.3278	0.3400 0.3071	0.3419	0.3265	Ave		0.3311			0.1000	4.1		20.0			
Chlorobenzene	+++++ 1.0146	1.1324 1.0163	1.0839 0.9145	1.0743	1.0050	Ave		1.0344			0.5000	6.8		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3551	0.3299 0.3656	0.3496 0.3479	0.3600	0.3504	Ave		0.3512				3.2		20.0			
Ethylbenzene	+++++ 0.5641	0.6201 0.5575	0.6172 0.4953	0.6138	0.5621	Ave		0.5757			0.1000	7.8		20.0			
m-Xylene & p-Xylene	+++++ 0.6908	0.7780 0.6773	0.7501 0.5998	0.7515	0.6986	Ave		0.7066			0.1000	8.5		20.0			
o-Xylene	+++++ 0.6682	0.7507 0.6568	0.6929 0.5696	0.7235	0.6779	Ave		0.6771			0.3000	8.5		20.0			
Styrene	+++++ 1.1448	1.2357 1.1063	1.1893 0.9029	1.2251	1.1565	Ave		1.1373			0.3000	9.9		20.0			
n-Butyl acrylate	+++++ 0.2708	0.2558 0.2612	0.2663 0.2467	0.2874	0.2749	Ave		0.2662				5.0		20.0			
Bromoform	+++++ 0.2182	0.1800 0.2431	0.1911 0.2438	0.2062	0.2069	Ave		0.2127			0.1000	11.4		20.0			
Amyl acetate (mixed isomers)	+++++ 1.0813	1.0735 1.0038	1.0164 0.8778	1.1355	1.0910	Ave		1.0399				8.1		20.0			
Isopropylbenzene	+++++ 1.6396	1.8439 1.5767	1.7435 1.3474	1.8008	1.6561	Ave		1.6583			0.1000	10.0		20.0			
Bromobenzene	+++++ 0.7863	0.8437 0.8176	0.8080 0.7970	0.8220	0.7877	Ave		0.8089				2.6		20.0			
1,1,2,2-Tetrachloroethane	+++++ 0.7632	0.7707 0.7724	0.7363 0.7096	0.7829	0.7530	Ave		0.7554			0.3000	3.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.2423	0.2696 0.2471	0.2963 0.2375	0.2799	0.2463	Ave		0.2598				8.6		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.1978	0.1635 0.2016	0.2839 0.1881	0.2145	0.1943	Ave		0.2062				18.2		20.0			
N-Propylbenzene	+++++ 3.6567	3.9697 3.4545	3.8722 2.9622	3.9034	3.6821	Ave		3.6430				9.6		20.0			
2-Chlorotoluene	+++++ 2.1707	2.3879 2.0668	2.3109 1.8009	2.3431	2.1983	Ave		2.1826				9.2		20.0			
4-Ethyltoluene	+++++ 3.0446	3.3642 2.8892	3.2021 2.5622	3.2313	3.0564	Ave		3.0500				8.7		20.0			
4-Chlorotoluene	+++++ 2.3261	2.5597 2.2459	2.4421 1.9299	2.4792	2.3543	Ave		2.3339				8.8		20.0			
1,3,5-Trimethylbenzene	+++++ 2.4554	2.7095 2.3787	2.5783 2.0518	2.6466	2.4720	Ave		2.4703				8.8		20.0			
Butyl Methacrylate	+++++ 0.9091	0.8989 0.8854	0.8537 0.8411	0.9436	0.9171	Ave		0.8927				4.0		20.0			
tert-Butylbenzene	+++++ 2.1357	2.4962 2.0992	2.2701 1.8999	2.2627	2.1310	Ave		2.1850				8.4		20.0			
1,2,4-Trimethylbenzene	+++++ 2.5242	2.7774 2.4503	2.6800 2.1214	2.7030	2.5440	Ave		2.5429				8.6		20.0			
sec-Butylbenzene	+++++ 3.0017	3.3448 2.8886	3.1980 2.4989	3.1285	2.9845	Ave		3.0064				9.0		20.0			
1,3-Dichlorobenzene	+++++ 1.4037	1.5105 1.4360	1.4459 1.3148	1.4601	1.3934	Ave		1.4235			0.6000	4.3		20.0			
1,4-Dichlorobenzene	+++++ 1.4371	1.5658 1.4509	1.4687 1.1770	1.4702	1.4159	Ave		1.4265			0.5000	8.4		20.0			
4-Isopropyltoluene	+++++ 2.5411	2.9062 2.4189	2.7131 1.9236	2.6668	2.5224	Ave		2.5274				12.2		20.0			
1,2,3-Trimethylbenzene	+++++ 2.5283	2.7078 2.3473	2.6094 2.0176	2.7130	2.5554	Ave		2.4970				9.8		20.0			
Benzyl chloride	+++++ 1.5810	1.4713 1.5132	1.5117 1.3957	1.6139	1.5762	Ave		1.5233				4.9		20.0			
Indan	+++++ 2.5134	2.6791 2.3706	2.6177 1.9978	2.6295	2.5150	Ave		2.4747				9.4		20.0			
1,2-Dichlorobenzene	+++++ 1.3066	1.3448 1.3275	1.2940 1.2047	1.3519	1.2946	Ave		1.3034			0.4000	3.8		20.0			
p-Diethylbenzene	+++++ 1.3354	1.4995 1.2872	1.3899 1.1452	1.3836	1.3297	Ave		1.3386				8.1		20.0			
n-Butylbenzene	+++++ 1.2197	1.4437 1.1400	1.2986 0.9336	1.2763	1.2134	Ave		1.2179				12.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.1297	0.0978 0.1397	0.1097 0.1455	0.1262	0.1236	Ave		0.1246			0.0500	13.2		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 2.1053	2.3172 1.9837	2.1361 1.6783	2.1980	2.0879	Ave		2.0724				9.7		20.0			
1,3,5-Trichlorobenzene	+++++ 0.7812	0.8249 0.7805	0.7810 0.7295	0.7778	0.7623	Ave		0.7767				3.6		20.0			
1,2,4-Trichlorobenzene	+++++ 0.7141	0.6531 0.7295	0.6533 0.6873	0.6812	0.6810	Ave		0.6856			0.2000	4.2		20.0			
Hexachlorobutadiene	+++++ 0.2705	0.2807 0.2772	0.2765 0.2739	0.2596	0.2592	Ave		0.2711				3.2		20.0			
Naphthalene	+++++ 2.1609	1.7465 2.1445	1.8577 1.8670	2.0560	2.0976	Ave		1.9900				8.2		20.0			
1,2,3-Trichlorobenzene	+++++ 0.6369	0.5917 0.6511	0.5692 0.6134	0.6131	0.6108	Ave		0.6123				4.4		20.0			
Dibromofluoromethane (Surr)	0.2083 0.2053	0.2073 0.2066	0.2051 0.2074	0.2056	0.2029	Ave		0.2061				0.8		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2306 0.2244	0.2313 0.2182	0.2307 0.2078	0.2285	0.2248	Ave		0.2245				3.6		20.0			
Toluene-d8 (Surr)	0.9789 0.9928	0.9752 0.9687	0.9847 0.9587	0.9905	0.9819	Ave		0.9789				1.2		20.0			
4-Bromofluorobenzene	0.3305 0.3221	0.3332 0.3199	0.3319 0.3188	0.3348	0.3272	Ave		0.3273				1.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD8 460-529548/2	T08676.D
Level 2	STD05 460-529548/3	T08677.D
Level 3	STD1 460-529548/4	T08678.D
Level 4	STD5 460-529548/5	T08679.D
Level 5	STD20 460-529548/6	T08680.D
Level 6	STD50 460-529548/7	T08681.D
Level 7	STD200 460-529548/8	T08682.D
Level 8	STD500 460-529548/9	T08683.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 51379	464 255545	976 653740	4544	19426	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dichlorodifluoromethane	FB	Ave	+++++ 121174	1291 652062	2597 1569043	13225	48816	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloromethane	FB	Ave	+++++ 77966	1254 392734	1989 1023692	8494	32522	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl chloride	FB	Ave	+++++ 91822	1119 412431	1975 953900	9609	37147	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butadiene	FB	Ave	413 74502	921 324395	1557 743937	9179	31136	0.250 50.0	0.500 200	1.00 500	5.00	20.0
Bromomethane	BUT	QuaF	+++++ 13573	171 73591	196 152490	1317	7127	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chloroethane	BUT	QuaF	+++++ 24260	360 102643	1067 +++++	4516	13360	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
Dichlorofluoromethane	FB	Ave	+++++ 133197	1878 540977	3064 1015763	15094	55313	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Trichlorofluoromethane	FB	Ave	+++++ 172014	1920 767155	3771 1713720	18657	70339	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Pentane	FB	Ave	+++++ 39576	486 163528	888 327590	3893	15606	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Ethanol	TBAd9	QuaF	+++++ 25650	573 94370	860 194458	3082	10855	+++++ 2000	20.0 8000	40.0 20000	200	800
Ethyl ether	FB	Ave	+++++ 88815	1055 315998	1923 +++++	9878	36734	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 104443	1350 419090	2385 914674	10946	40743	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 86544	1122 317937	2080 +++++	9267	35481	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
Acrolein	TBAd9	Ave	+++++ 22970	527 49892	933 95071	4908	9447	+++++ 100	2.00 200	4.00 400	20.0	40.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	+++++ 109596	1074 453258	2163 1043995	11354	42847	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 108428	1169 448541	2168 1064009	10510	41763	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Acetone	BUT	QuaF	+++++ 140821	2468 541186	4379 1232317	16377	58278	+++++ 250	2.50 1000	5.00 2500	25.0	100
Iodomethane	FB	QuaF	+++++ 71756	364 397166	506 865843	2981	19065	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon disulfide	FB	Ave	+++++ 308197	4015 1270249	6967 2902237	33997	122549	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl alcohol	TBAd9	QuaF	+++++ 72043	998 277191	1754 678784	7727	29510	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acetonitrile	BUT	Ave	+++++ 84942	981 300295	2027 637358	9526	34938	+++++ 500	5.00 2000	10.0 5000	50.0	200
Allyl chloride	FB	Ave	+++++ 87952	897 339212	1717 804801	9255	34739	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl acetate	FB	Ave	+++++ 155113	1570 590161	3534 1275750	17087	64307	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Cyclopentene	FB	Ave	+++++ 265767	2971 1031267	5947 2334398	27183	101338	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methylene Chloride	FB	Ave	+++++ 124456	1439 501571	3062 1171637	14100	49686	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Methyl-2-propanol	TBAd9	QuaF	+++++ 122029	1932 506540	3131 1221092	13482	49672	+++++ 500	5.00 2000	10.0 5000	50.0	200
Acrylonitrile	FB	Ave	1967 412862	4580 1404431	8966 +++++	46117	173596	2.00 500	5.00 2000	10.0 +++++	50.0	200
trans-1,2-Dichloroethene	FB	Ave	+++++ 125484	1364 486701	2758 951502	13401	49427	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl tert-butyl ether	FB	Ave	+++++ 334854	3576 1226679	6872 2415810	36480	137742	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexane	FB	Ave	+++++ 145820	1667 579765	3004 1327696	14014	57630	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloroethane	FB	Ave	+++++ 207329	2440 823203	4490 1859491	22959	84266	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Vinyl acetate	BUT	Ave	+++++ 59182	606 235530	1114 481521	6184	23893	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Isopropyl ether	FB	Ave	+++++ 340446	3719 1080878	7412 +++++	37915	142147	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
2-Chloro-1,3-butadiene	FB	Ave	+++++ 120933	1314 455592	2479 887269	12893	48047	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tert-butyl ethyl ether	FB	Ave	+++++ 350156	3593 1278743	7344 2800477	37611	142886	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 44547	647 176228	910 379969	5353	18100	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 143124	1497 570297	3141 1283578	15667	57181	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Butanone (MEK)	BUT	Ave	+++++ 228227	2911 843802	5201 1856606	25474	91849	+++++ 250	2.50 1000	5.00 2500	25.0	100
Propionitrile	TBAd9	Ave	+++++ 166603	1747 610080	3546 +++++	18247	68673	+++++ 500	5.00 2000	10.0 +++++	50.0	200
Ethyl acetate	BUT	Ave	+++++ 27561	354 104934	617 241111	2793	11084	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Methyl acrylate	FB	Ave	+++++ 114320	1222 506058	2480 1155840	11776	45812	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methacrylonitrile	FB	Ave	+++++ 487845	5168 1520175	10376 +++++	54486	204195	+++++ 500	5.00 2000	10.0 +++++	50.0	200
Chlorobromomethane	FB	Ave	+++++ 61520	714 231865	1350 503194	6833	25313	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tetrahydrofuran	BUT	Ave	+++++ 32325	389 130774	709 303851	3494	13168	+++++ 100	1.00 400	2.00 1000	10.0	40.0
Chloroform	FB	Ave	+++++ 212004	2344 817141	4591 1881747	23141	85947	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1-Trichloroethane	FB	Ave	+++++ 188885	2200 750840	4161 1746136	20403	75855	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Cyclohexane	FB	Ave	+++++ 178107	1955 721387	3979 1714097	17655	69441	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Carbon tetrachloride	FB	Ave	+++++ 161564	1919 647644	3447 1486616	16612	63965	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1-Dichloropropene	FB	Ave	+++++ 166048	1895 624483	3620 1281825	17960	66794	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isobutyl alcohol	TBAd9	Ave	+++++ 120796	1058 481838	2342 +++++	12319	48566	+++++ 1250	12.5 5000	25.0 +++++	125	500
Benzene	CBNZd5	Ave	+++++ 499786	5972 1894029	11369 +++++	55781	203779	+++++ 50.0	0.500 200	1.00 +++++	5.00	20.0
1,2-Dichloroethane	FB	Ave	+++++ 149257	2091 538792	3622 1105457	17308	62186	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2,2,4-Trimethylpentane	FB	Ave	+++++ 281749	3268 1049382	5859 2304401	26379	108085	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropyl acetate	FB	Ave	+++++ 46302	390 173335	817 375174	4775	18533	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tert-amyl methyl ether	FB	Ave	+++++ 350726	3480 1288340	7151 2832001	37098	141607	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Heptane	FB	Ave	+++++ 118094	1579 456489	2840 1009448	11243	46434	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
n-Butanol	TBAd9	Ave	+++++ 88384	729 337615	1738 +++++	8998	35485	+++++ 1250	12.5 5000	25.0 +++++	125	500
Trichloroethene	FB	Ave	+++++ 129951	1500 518307	3272 1173558	14520	52638	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl acrylate	FB	Ave	+++++ 151132	1482 625343	2953 1516572	15469	60683	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methylcyclohexane	FB	Ave	+++++ 194821	2028 793809	4080 1882525	18848	75928	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichloropropane	FB	Ave	+++++ 121900	1336 472412	2555 1048047	13277	49605	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromomethane	FB	Ave	+++++ 75835	975 300414	1791 647646	8352	30863	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Methyl methacrylate	FB	Ave	+++++ 71705	632 289494	1314 710394	7195	28337	+++++ 100	1.00 400	2.00 1000	10.0	40.0
1,4-Dioxane	DXE	Ave	+++++ 31436	677 127448	1369 302608	3210	12275	+++++ 1000	25.0 4000	50.0 10000	100	400
n-Propyl acetate	FB	Ave	+++++ 154576	1479 600317	3179 1420722	15660	61605	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromodichloromethane	FB	Ave	+++++ 163806	1767 661357	3399 1536907	17299	66134	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Nitropropane	FB	Ave	+++++ 51358	499 205241	1101 502839	5163	20733	+++++ 100	1.00 400	2.00 1000	10.0	40.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 79530	720 315928	1528 805236	8230	31797	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Epichlorohydrin	BUT	Ave	1083 244200	2509 940842	4664 1972667	25331	98625	5.00 1000	10.0 4000	20.0 10000	100	400
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 200223	2094 794301	4043 1821490	21224	80642	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 491105	4799 1750935	9579 3377204	51430	197299	+++++ 250	2.50 1000	5.00 2500	25.0	100
Toluene	CBNZd5	Ave	+++++ 533783	6588 2101165	11990 4527753	57234	212112	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 182380	1894 734490	3641 1701043	18987	73024	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethyl methacrylate	CBNZd5	Ave	+++++ 156222	1581 634547	3250 1486589	16445	62681	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 89645	919 367129	1803 874834	9516	36315	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Tetrachloroethene	CBNZd5	Ave	+++++ 138134	1457 589297	2827 1490242	14210	53767	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 188005	1916 754440	3790 1745879	20189	76645	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
2-Hexanone	BUT	Ave	+++++ 341233	3268 1275575	6899 2627081	36749	138877	+++++ 250	2.50 1000	5.00 2500	25.0	100
Dibromochloromethane	CBNZ d5	Ave	+++++ 121426	1207 526669	2367 1328212	12154	47674	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acetate	CBNZ d5	Ave	+++++ 166301	1668 633988	3557 1413207	17640	66538	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 113039	1226 471902	2374 1152500	11756	45077	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Chlorobenzene	CBNZ d5	Ave	+++++ 351486	3988 1463112	7568 3432201	36935	138735	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 123007	1162 526382	2441 1305721	12377	48372	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Ethylbenzene	CBNZ d5	Ave	+++++ 195415	2184 802670	4309 1858975	21103	77596	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 239316	2740 975059	5237 2250934	25838	96435	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
o-Xylene	CBNZ d5	Ave	+++++ 231474	2644 945547	4838 2137653	24875	93581	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Styrene	CBNZ d5	Ave	+++++ 396584	4352 1592765	8304 3388764	42120	159656	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 93797	901 376079	1859 925995	9880	37948	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromoform	CBNZ d5	Ave	+++++ 75583	634 349920	1334 915044	7089	28564	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 195432	1943 753253	3687 1689173	20527	78664	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 567986	6494 2269888	12173 5056843	61912	228626	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Bromobenzene	DCBd 4	Ave	+++++ 142123	1527 613521	2931 1533694	14859	56797	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 137941	1395 579603	2671 1365445	14153	54292	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 43788	488 185386	1075 457068	5059	17755	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 35749	296 151245	1030 361970	3878	14007	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
N-Propylbenzene	DCBd 4	Ave	+++++ 660925	7185 2592194	14047 5700247	70564	265482	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 392332	4322 1550870	8383 3465503	42357	158501	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 550285	6089 2168049	11616 4930510	58414	220366	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 420422	4633 1685301	8859 3713692	44818	169745	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 443793	4904 1784927	9353 3948299	47843	178230	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 164319	1627 664414	3097 1618490	17057	66123	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 386014	4518 1575204	8235 3655976	40904	153645	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 456238	5027 1838642	9722 4082309	48864	183426	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 542529	6054 2167577	11601 4808758	56556	215185	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 253710	2734 1077575	5245 2530053	26394	100465	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 259741	2834 1088769	5328 2264983	26578	102084	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 459286	5260 1815121	9842 3701740	48209	181867	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 456980	4901 1761408	9466 3882618	49044	184245	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Benzyl chloride	DCBd 4	Ave	+++++ 285762	2663 1135497	5484 2685887	29176	113648	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Indan	DCBd 4	Ave	+++++ 454275	4849 1778875	9496 3844429	47535	181335	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 236155	2434 996157	4694 2318262	24439	93344	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 241356	2714 965875	5042 2203843	25012	95874	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
n-Butylbenzene	DCBd 4	Ave	+++++ 220447	2613 855416	4711 1796613	23072	87484	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 23451	177 104835	398 279896	2282	8913	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 380526	4194 1488576	7749 3229652	39735	150538	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 141205	1493 585688	2833 1403717	14060	54964	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 129067	1182 547386	2370 1322660	12315	49099	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 48887	508 208014	1003 527033	4693	18690	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Naphthalene	DCBd 4	Ave	+++++ 390564	3161 1609222	6739 3592800	37167	151239	+++++ 50.0	0.500 200	1.00 500	5.00	20.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159208-1 Analy Batch No.: 529548

SDG No.:

Instrument ID: CVOAMS15 GC Column: DB-624 ID: 0.18(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/20/2018 20:46 Calibration End Date: 06/20/2018 23:42 Calibration ID: 69555

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 115124	1071 488549	2065 1180440	11083	44038	+++++ 50.0	0.500 200	1.00 500	5.00	20.0
Dibromofluoromethane (Surr)	FB	Ave	95402 88173	92021 88365	90930 88576	90376	88741	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	105607 96366	102661 93298	102270 88748	100434	98312	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	356058 343938	343461 348668	343755 359793	340554	338871	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	120226 111595	117339 115138	115872 119661	115114	112916	50.0 50.0	50.0 50.0	50.0 50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Lims ID: STD8
Client ID:
Sample Type: IC Calib Level: 8
Inject. Date: 20-Jun-2018 20:46:39 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD8
Misc. Info.: 460-0074090-002
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:07:40 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: boykink Date: 20-Jun-2018 22:20:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.112	1.112	0.000	45	413	0.2500	0.2425	
* 27 TBA-d9 (IS)	66	2.134	2.139	-0.005	99	36231	1000.0	1000.0	
29 Acrylonitrile	53	2.271	2.271	0.000	89	1967	2.00	2.17	
* 38 2-Butanone-d5	46	3.010	3.015	-0.005	99	235012	250.0	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.456	-0.006	96	95402	50.0	50.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	105607	50.0	51.3	
* 61 Fluorobenzene	96	4.079	4.079	0.000	99	458014	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.798	4.803	-0.005	37	28694	1000.0	1000.0	
76 Epichlorohydrin	57	5.432	5.432	0.000	47	1083	5.00	4.62	
$ 79 Toluene-d8 (Surr)	98	5.846	5.852	-0.006	100	356058	50.0	50.0	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	85	363733	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.621	9.627	-0.006	0	120226	50.0	50.5	
* 115 1,4-Dichlorobenzene-d4	152	11.477	11.483	-0.006	96	188786	50.0	50.0	

Reagents:

ACROLEIN W_00077	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00050	Amount Added:	20.00	Units: uL	
14DIOXINTER_00085	Amount Added:	0.00	Units: uL	
Ethanol mix_00016	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	0.00	Units: uL	
GAS Hi_00260	Amount Added:	0.00	Units: uL	
GASES Li_00265	Amount Added:	2.50	Units: uL	
MIX I Hi_00095	Amount Added:	0.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:07:44 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D

Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15

Lims ID: STD8

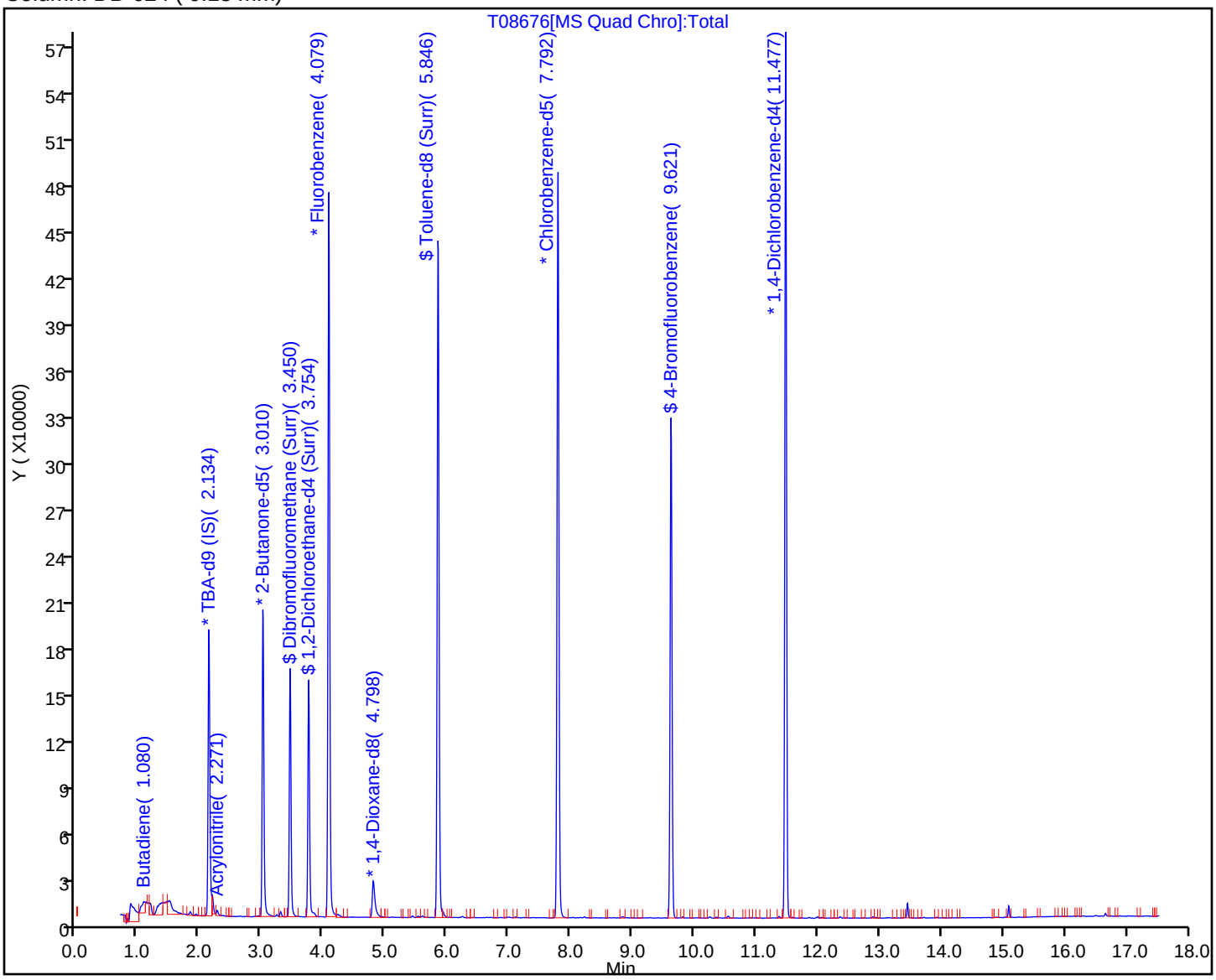
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



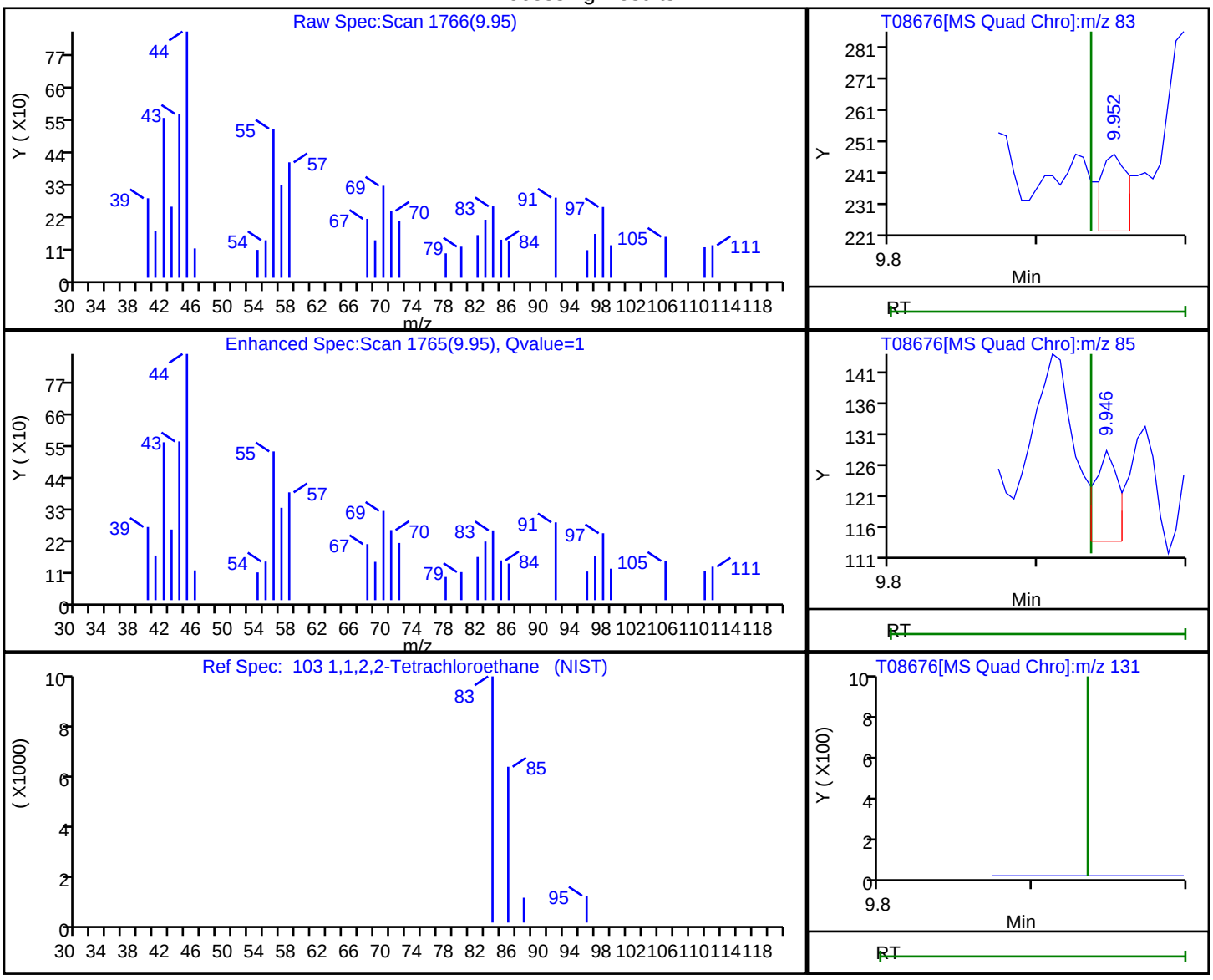
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

103 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
9.95	83.00	32	0.009794
9.95	85.00	17	
9.93	131.00	0	

Reviewer: boykink, 20-Jun-2018 22:20:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

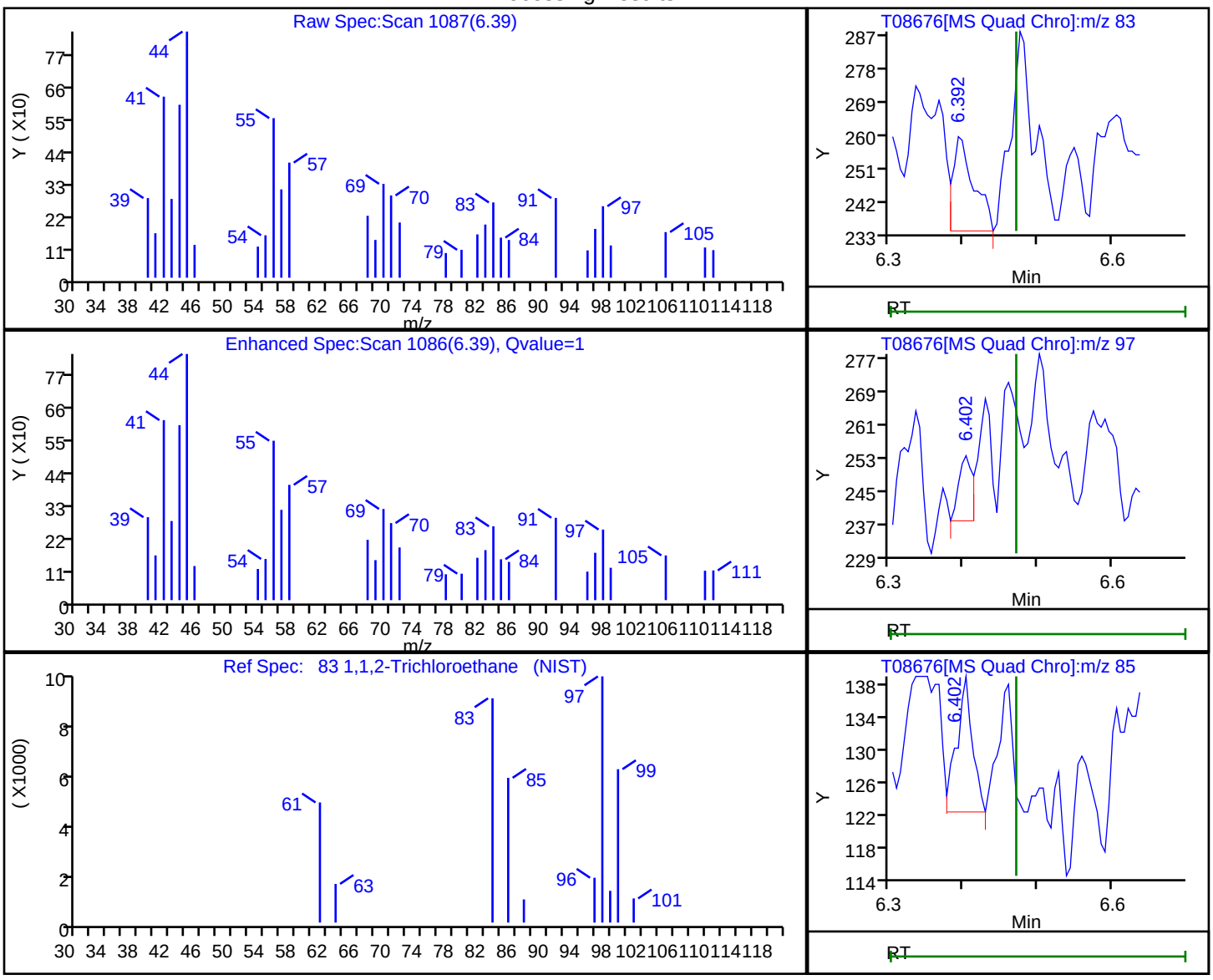
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
6.39	83.00	51	0.026072
6.40	97.00	21	
6.40	85.00	25	

Reviewer: boykink, 20-Jun-2018 22:20:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

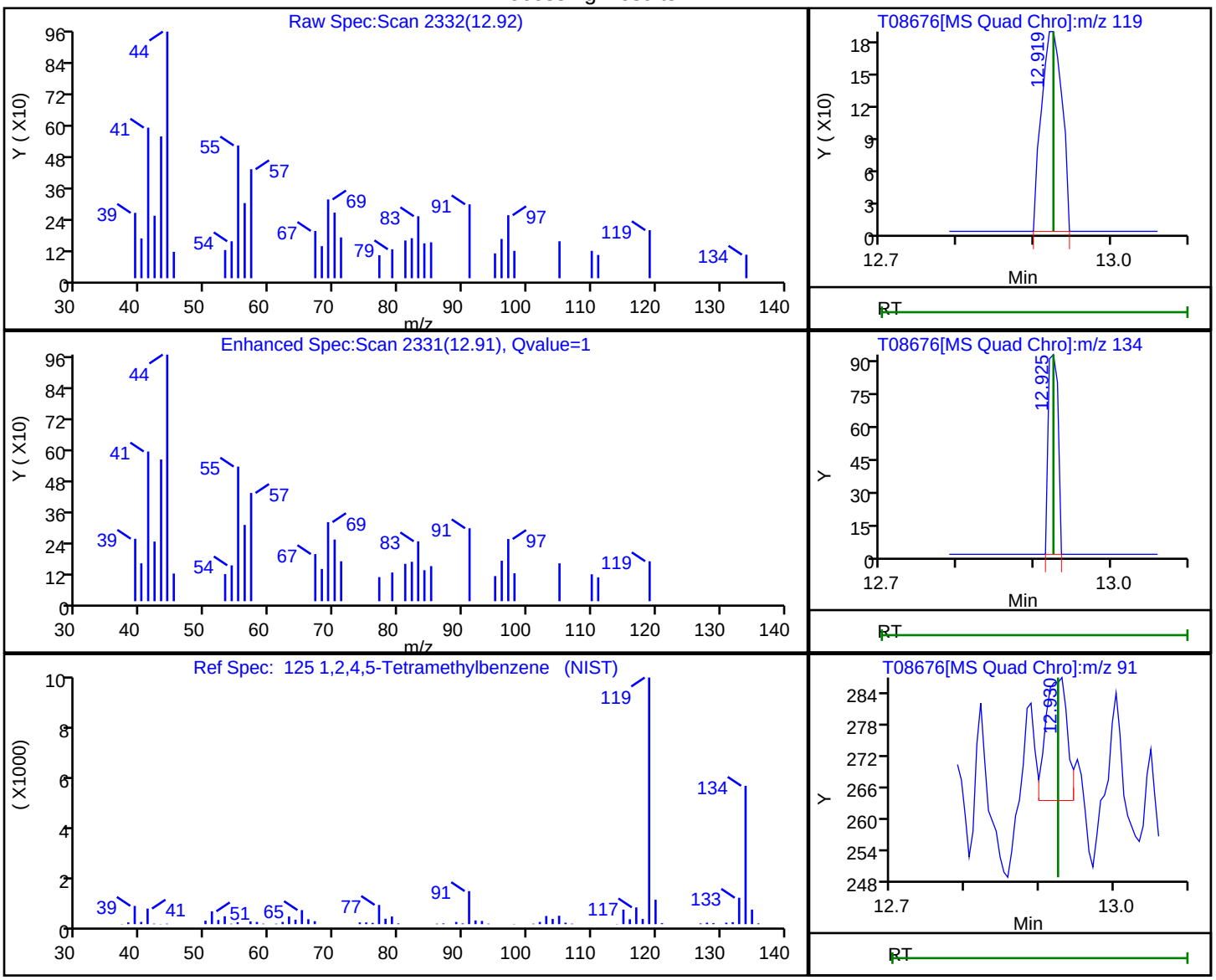
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

125 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
12.92	119.00	346	0.041155
12.92	134.00	83	
12.93	91.00	48	

Reviewer: boykink, 20-Jun-2018 22:20:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

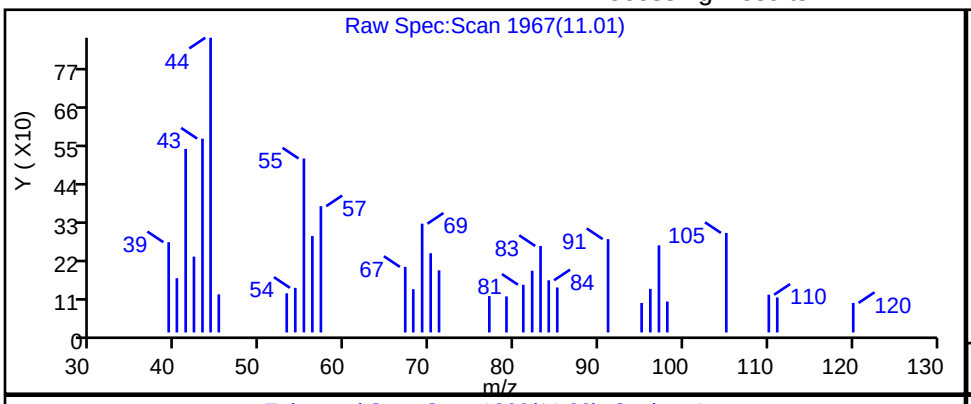
User Disabled Compound Report

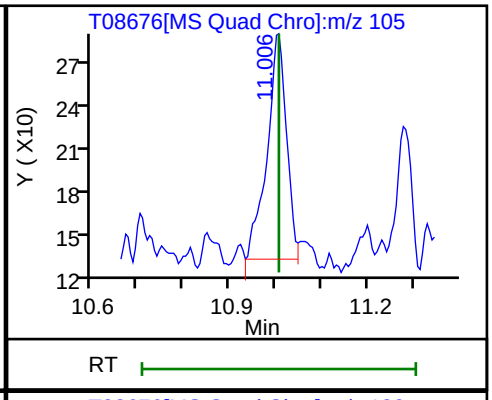
TestAmerica Edison

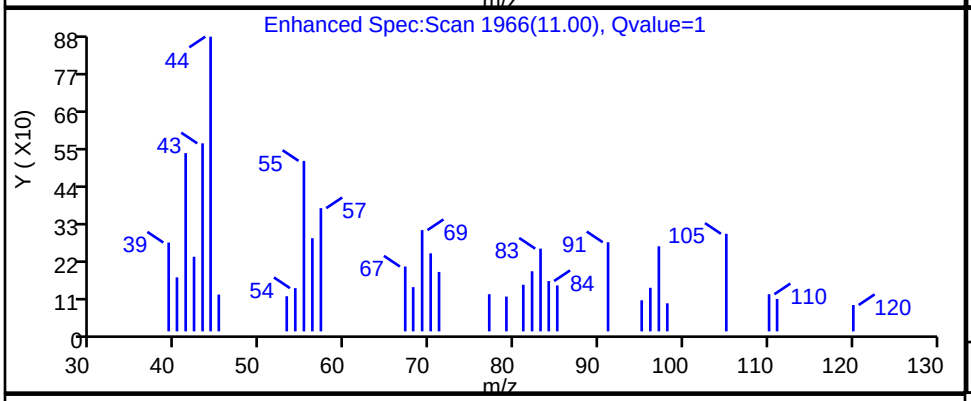
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

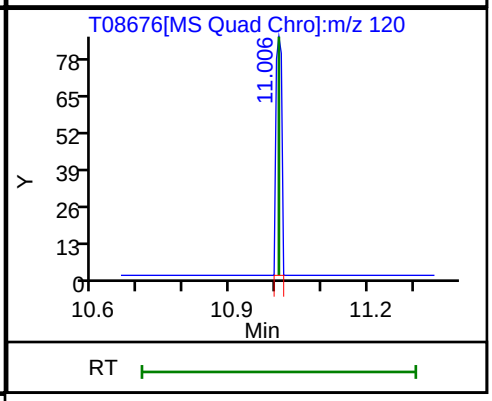
118 1,2,4-Trimethylbenzene, CAS: 95-63-6

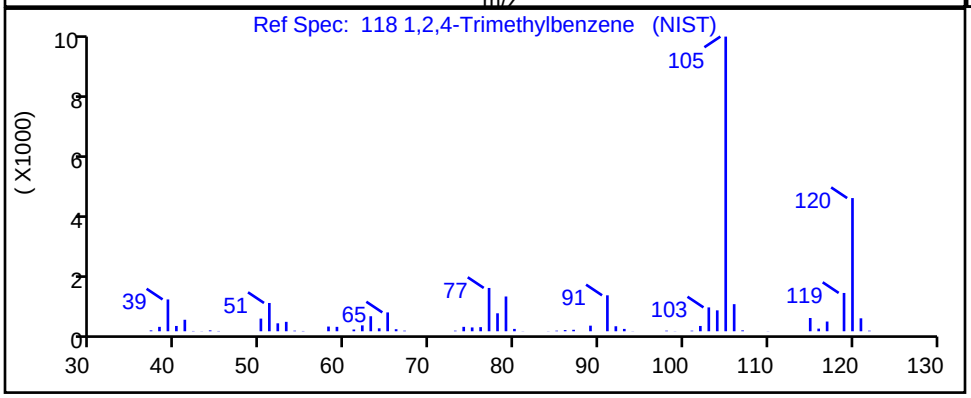
Processing Results











RT	Mass	Response	Amount
11.01	105.00	452	0.043347
11.01	120.00	77	

Reviewer: boykink, 20-Jun-2018 22:20:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

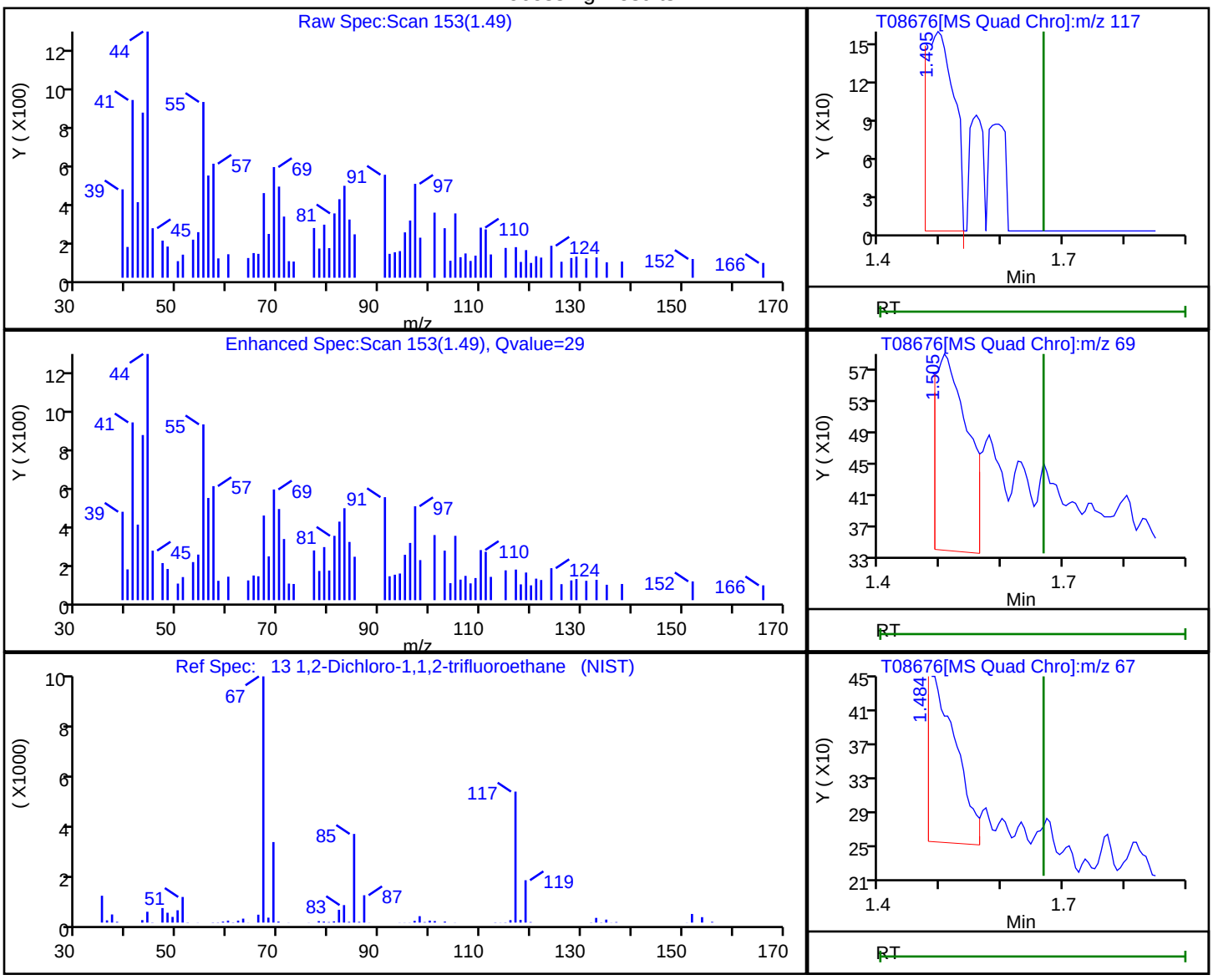
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

13 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Processing Results



RT	Mass	Response	Amount
1.49	117.00	485	0.231470
1.51	69.00	902	
1.48	67.00	604	
1.49	119.00	552	

Reviewer: boykink, 20-Jun-2018 22:19:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

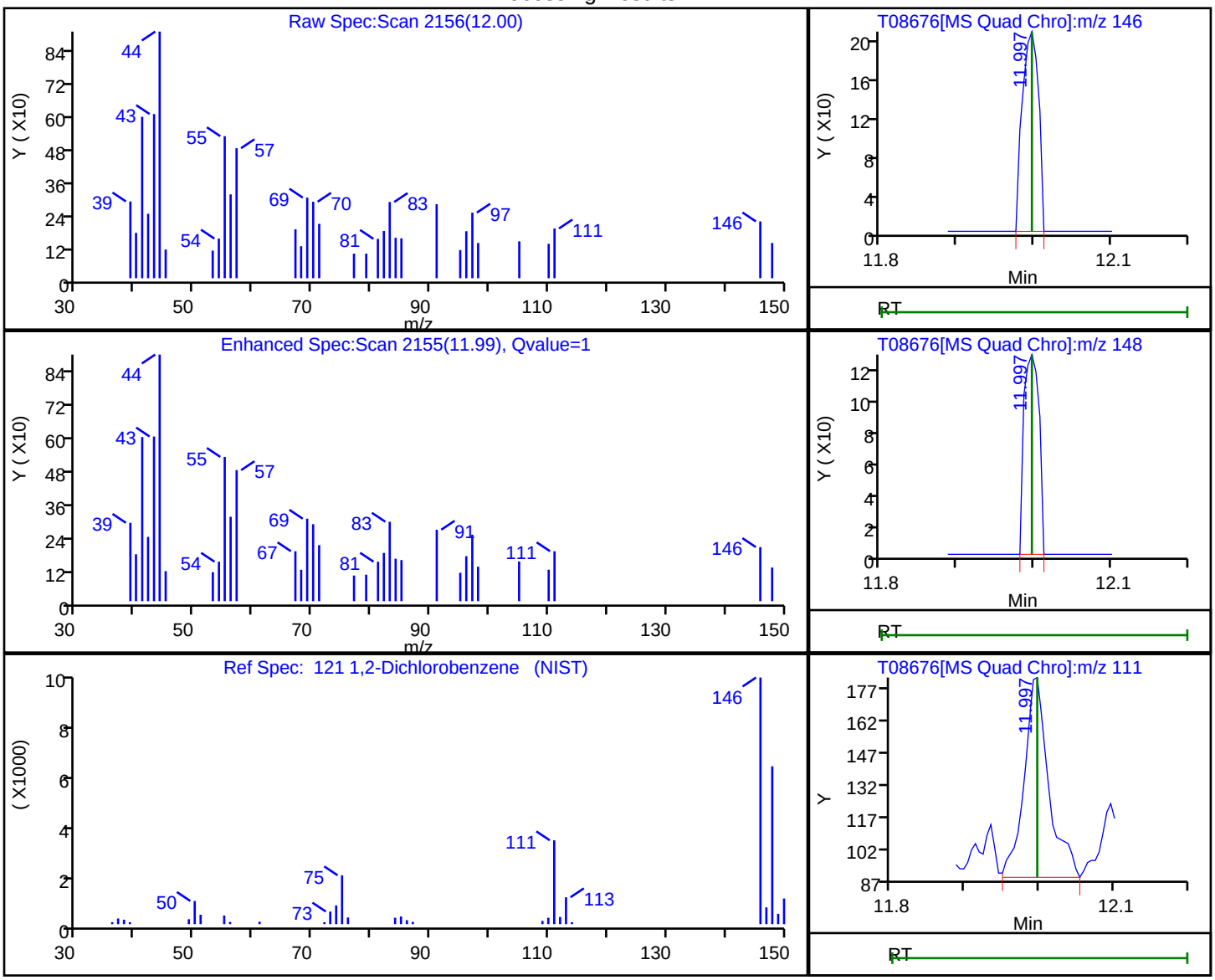
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

121 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
12.00	146.00	306	0.061811
12.00	148.00	177	
12.00	111.00	220	

Reviewer: boykink, 20-Jun-2018 22:20:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

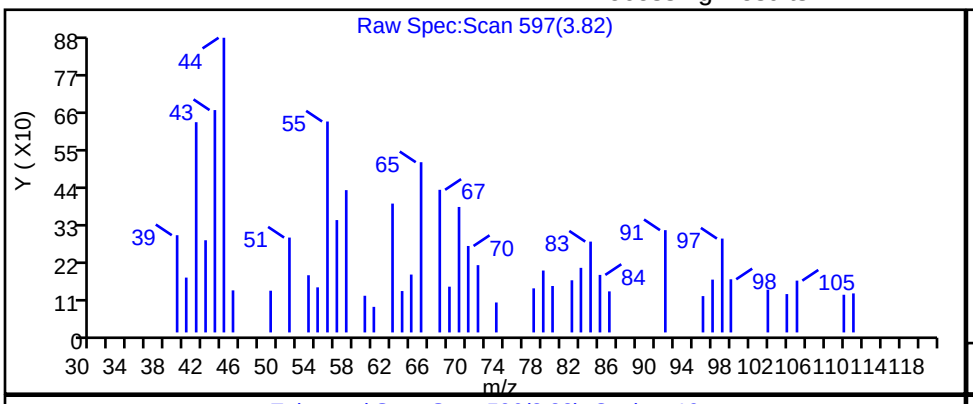
User Disabled Compound Report

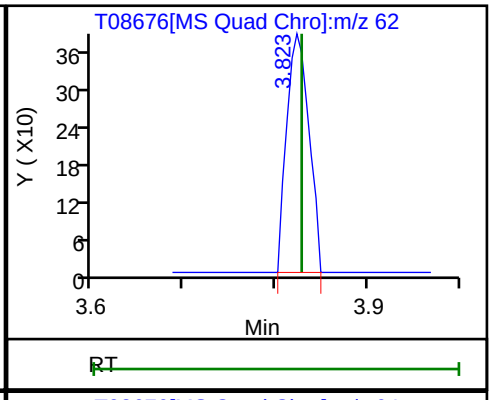
TestAmerica Edison

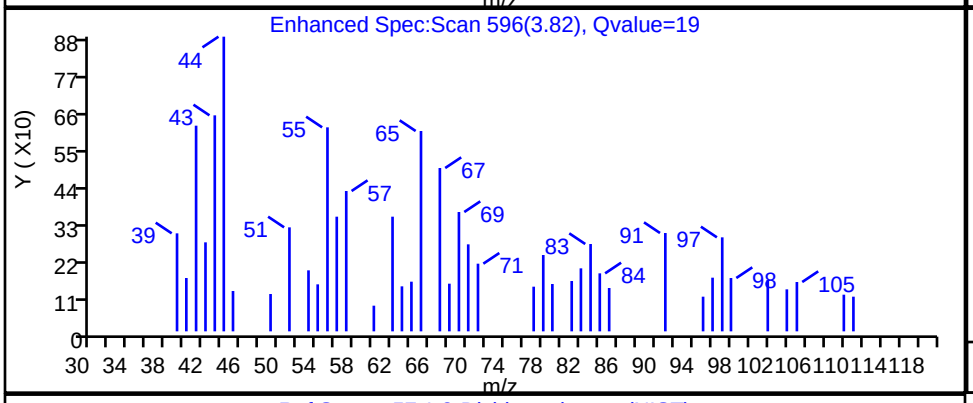
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

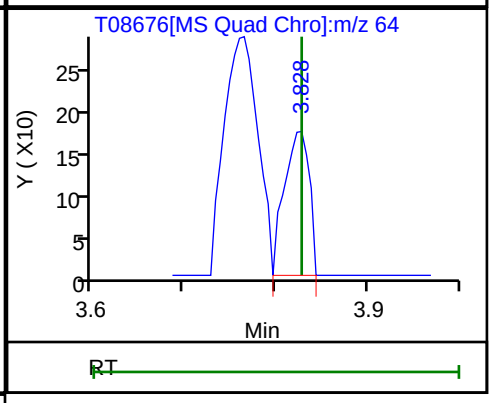
57 1,2-Dichloroethane, CAS: 107-06-2

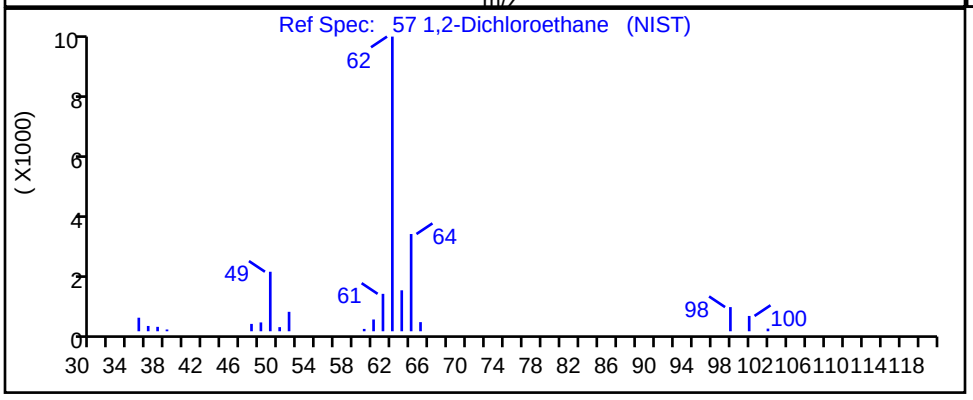
Processing Results











RT	Mass	Response	Amount
3.82	62.00	646	0.182143
3.83	64.00	327	

Reviewer: boykink, 20-Jun-2018 22:19:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

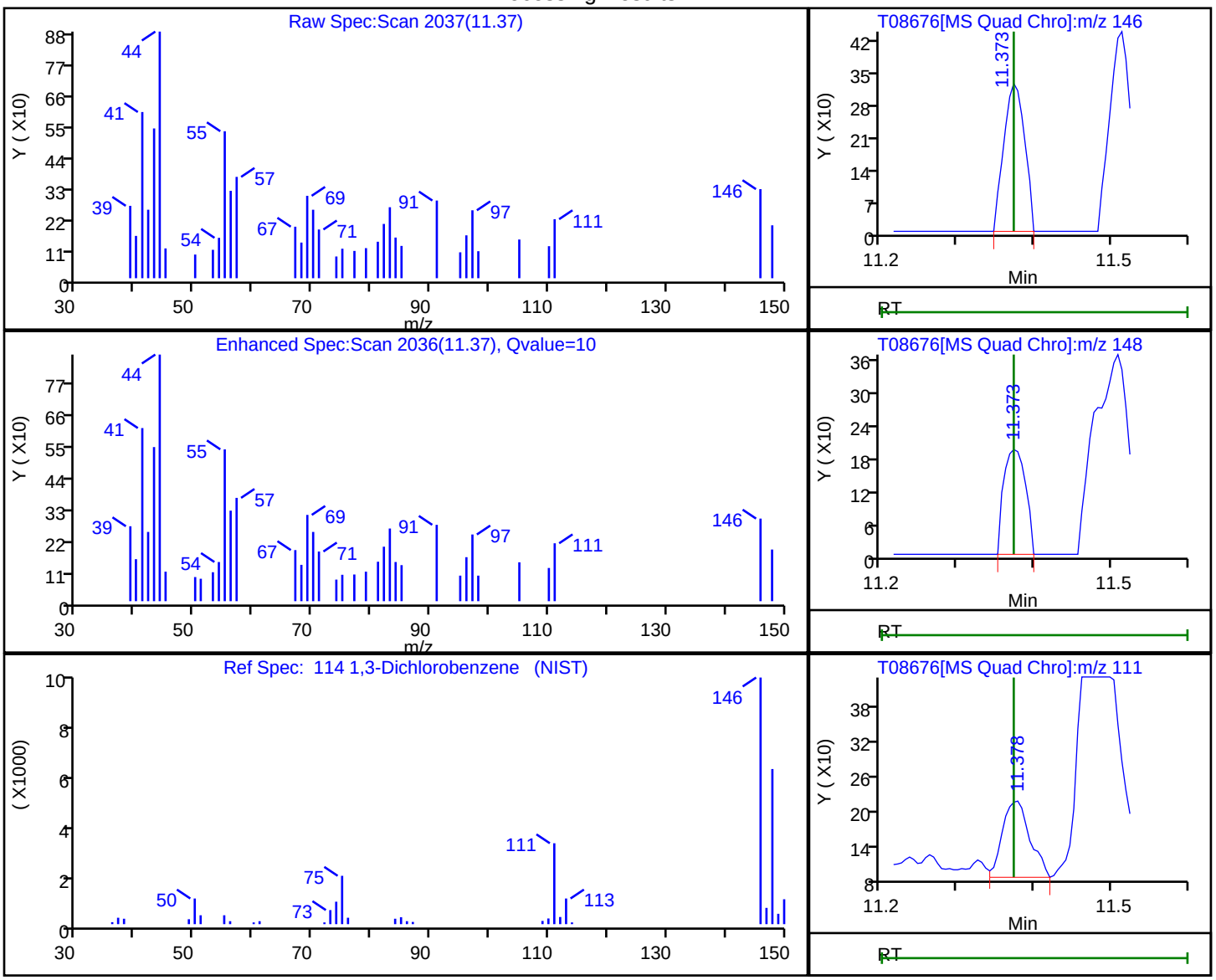
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

114 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
11.37	146.00	603	0.112286
11.37	148.00	376	
11.38	111.00	330	

Reviewer: boykink, 20-Jun-2018 22:20:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

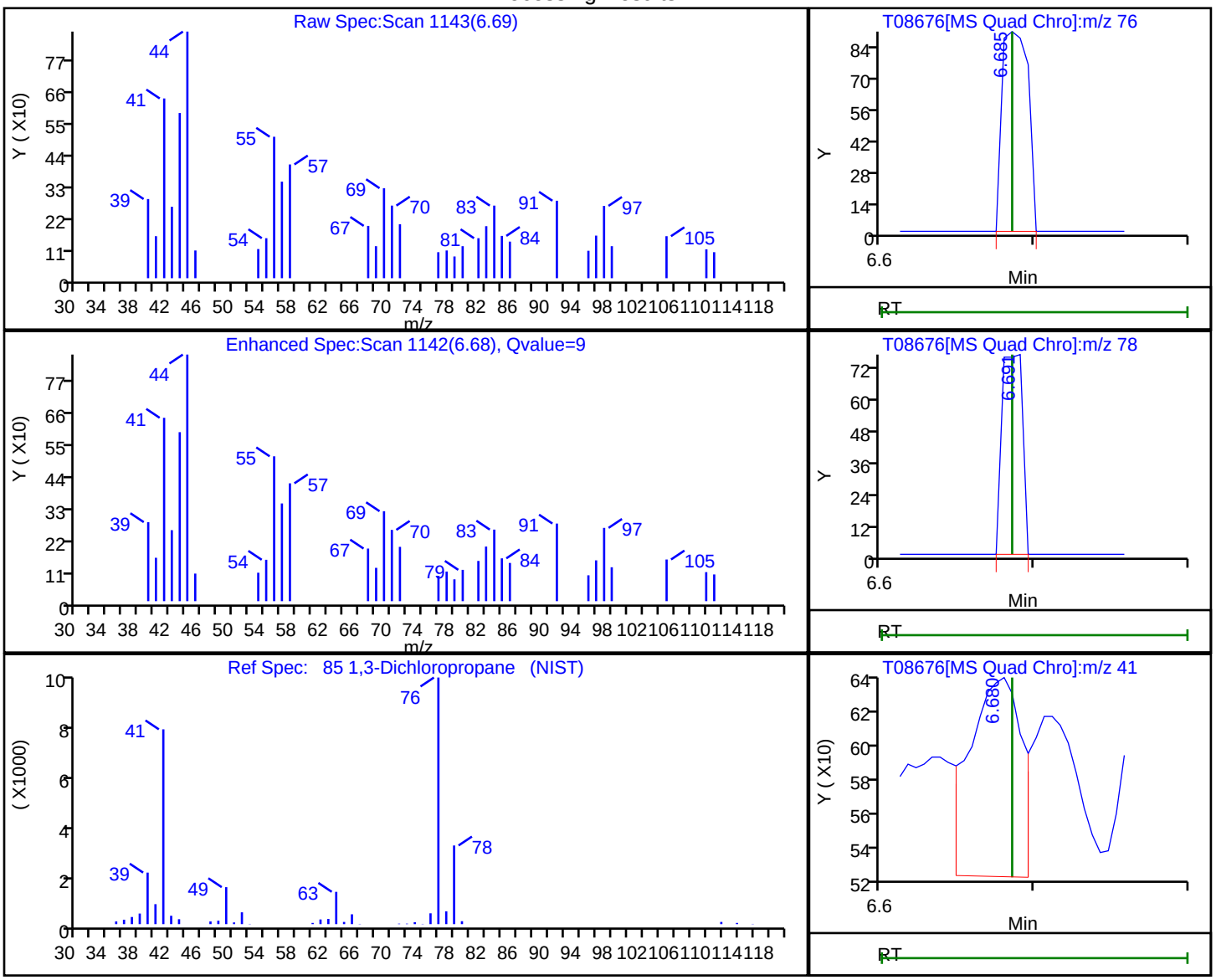
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

85 1,3-Dichloropropane, CAS: 142-28-9

Processing Results



RT	Mass	Response	Amount
6.69	76.00	108	0.025875
6.69	78.00	72	
6.68	41.00	274	

Reviewer: boykink, 20-Jun-2018 22:20:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

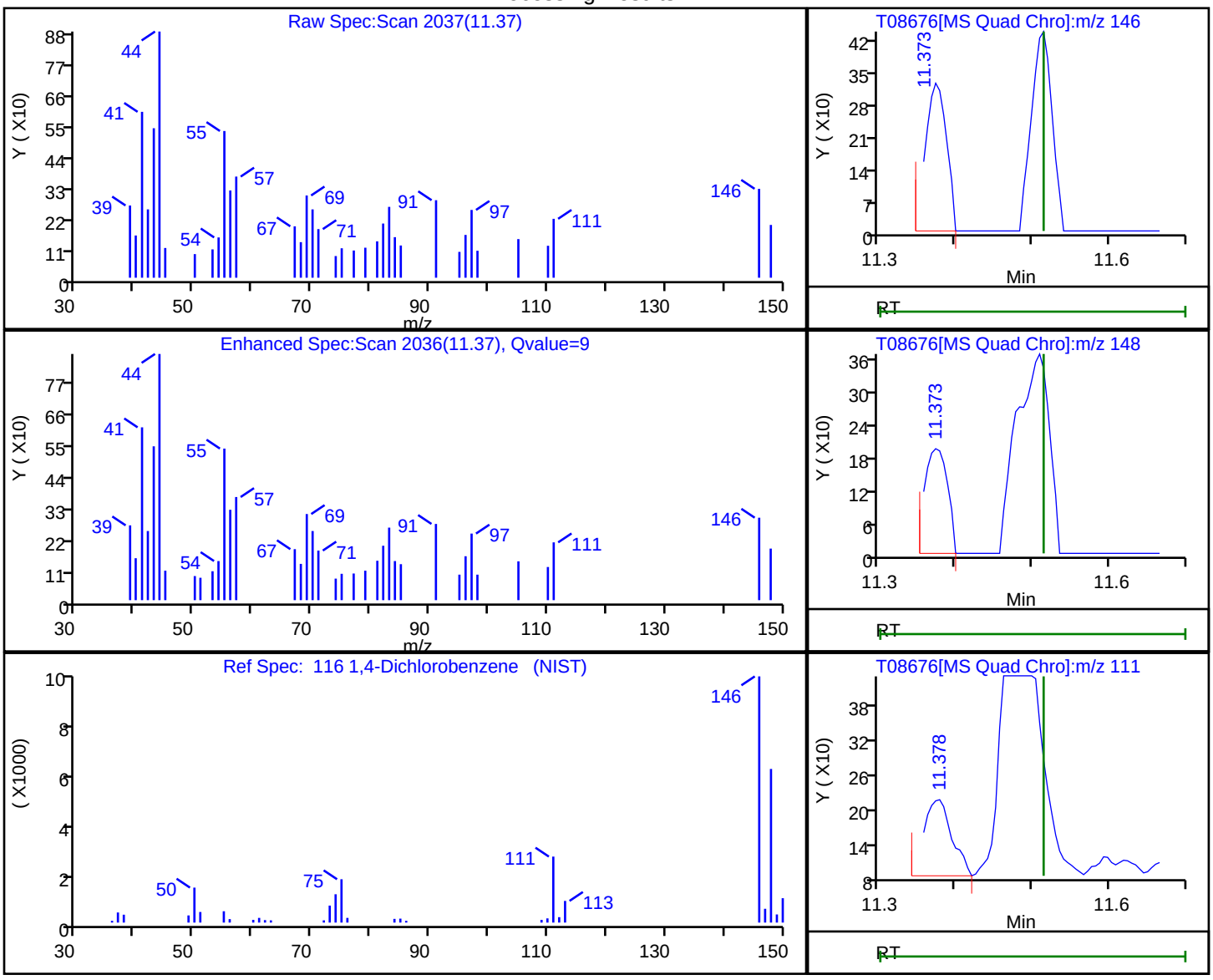
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

116 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
11.37	146.00	603	0.110296
11.37	148.00	376	
11.38	111.00	330	

Reviewer: boykink, 20-Jun-2018 22:20:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

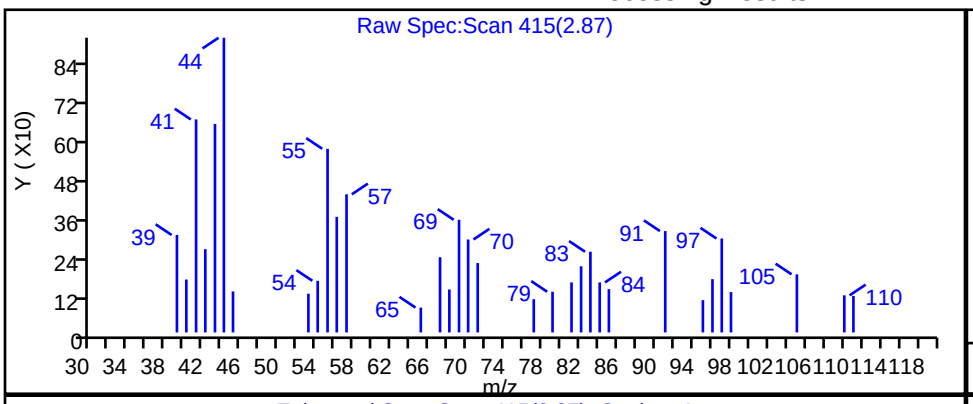
User Disabled Compound Report

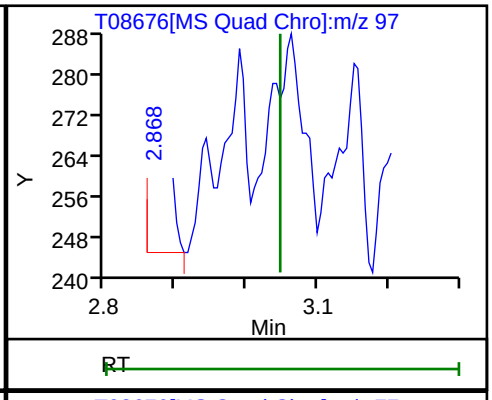
TestAmerica Edison

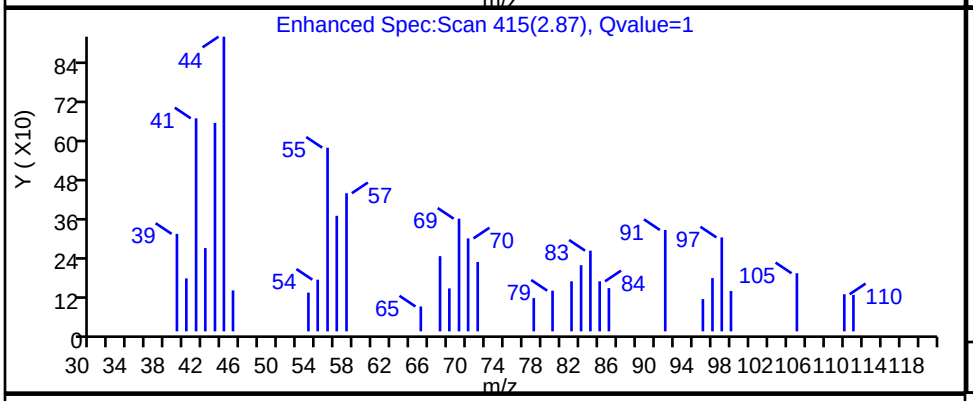
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

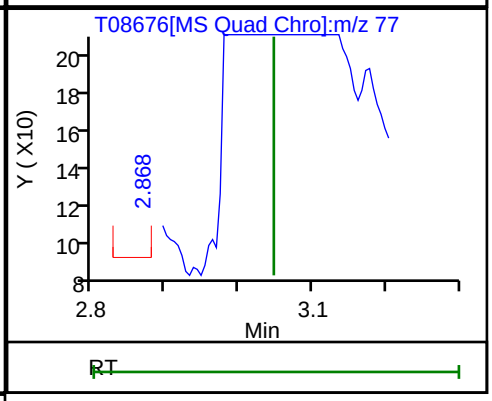
39 2,2-Dichloropropane, CAS: 594-20-7

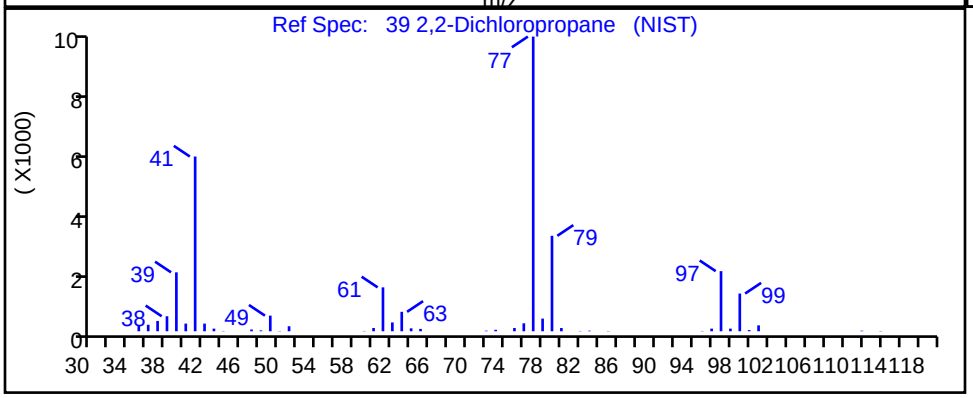
Processing Results











RT	Mass	Response	Amount
2.87	97.00	74	0.080416
2.87	77.00	55	

Reviewer: boykink, 20-Jun-2018 22:19:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

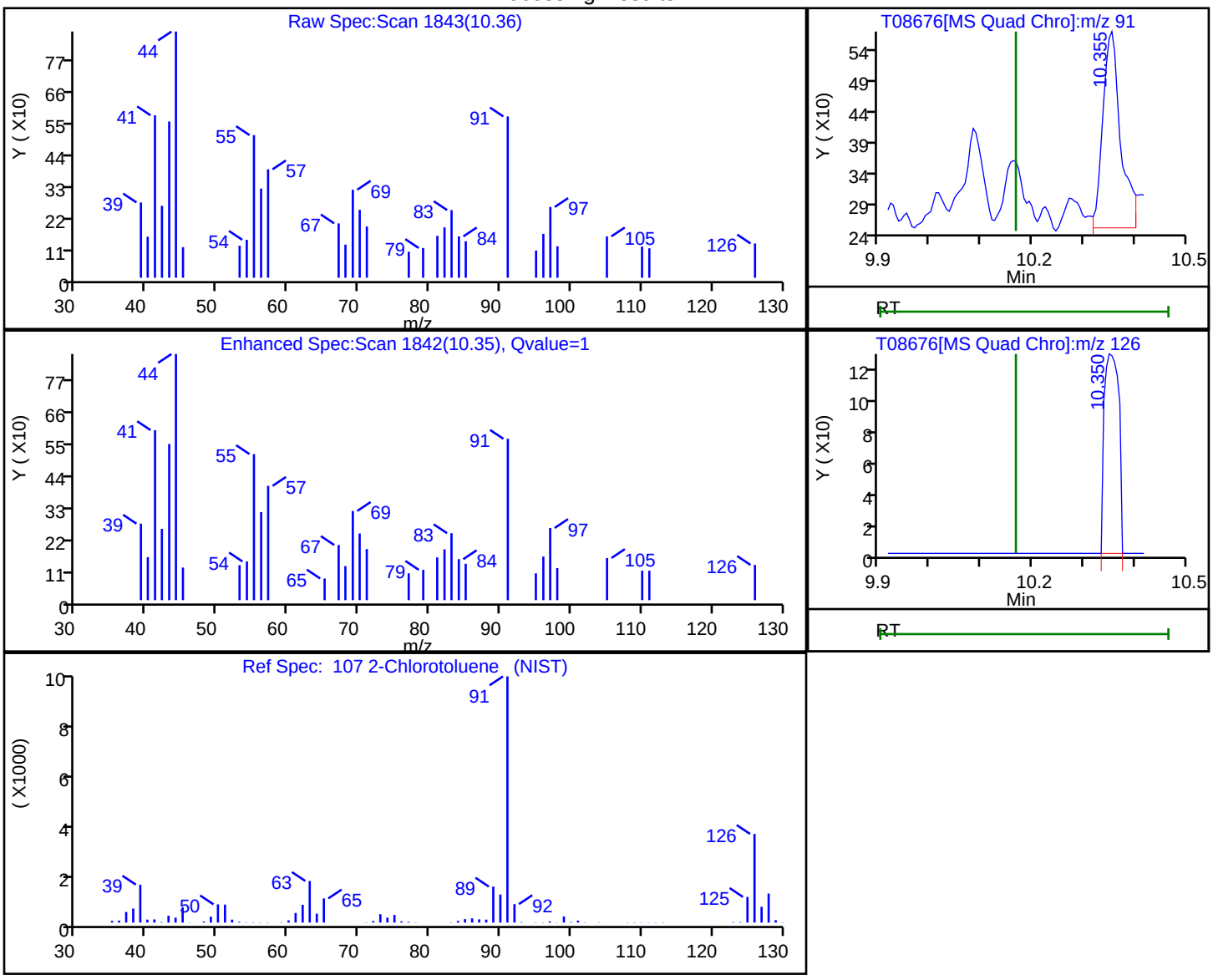
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

107 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
10.36	91.00	775	0.084390
10.35	126.00	242	

Reviewer: boykink, 20-Jun-2018 22:20:24
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

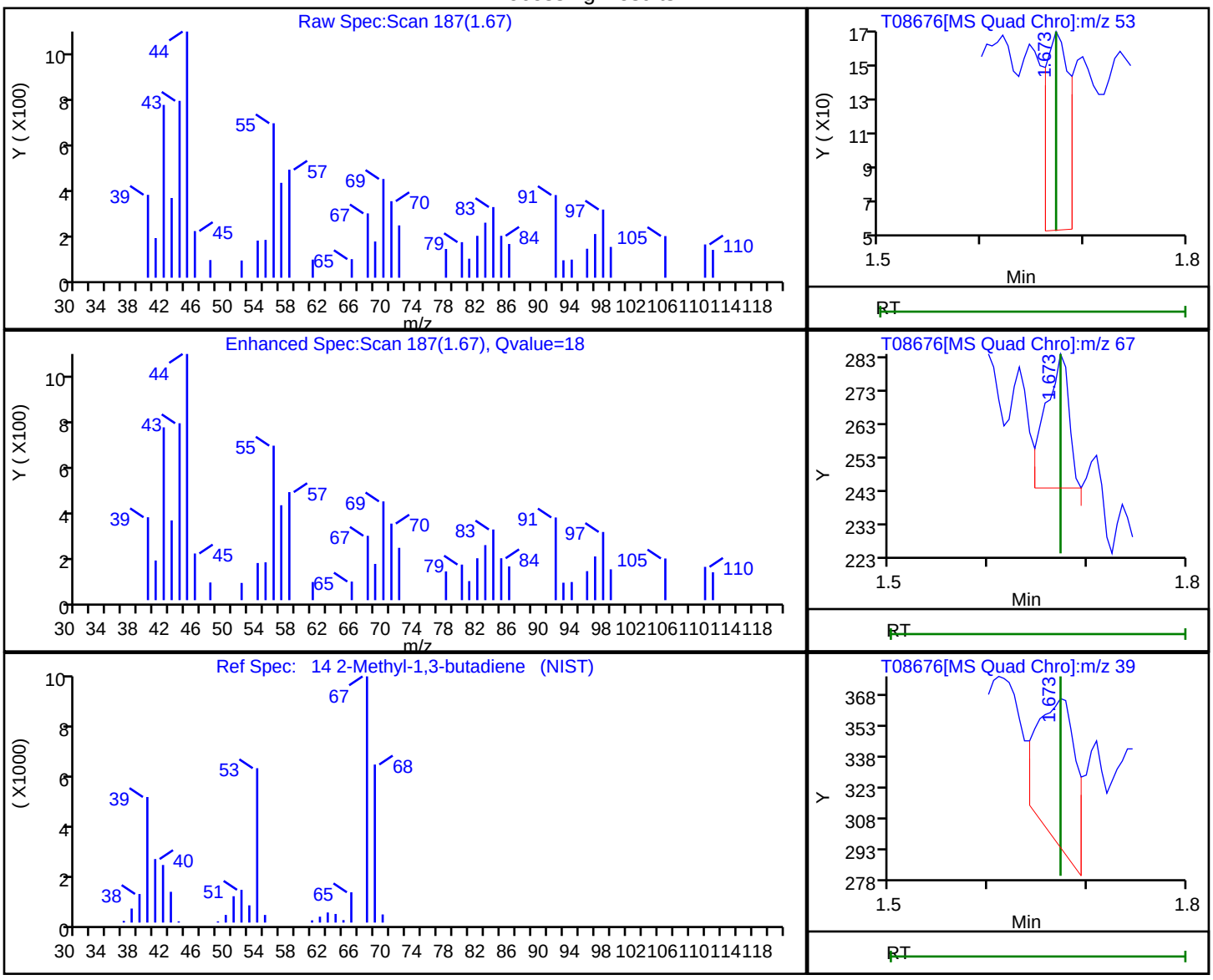
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

14 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
1.67	53.00	182	0.081529
1.67	67.00	67	
1.67	39.00	196	

Reviewer: boykink, 20-Jun-2018 22:19:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

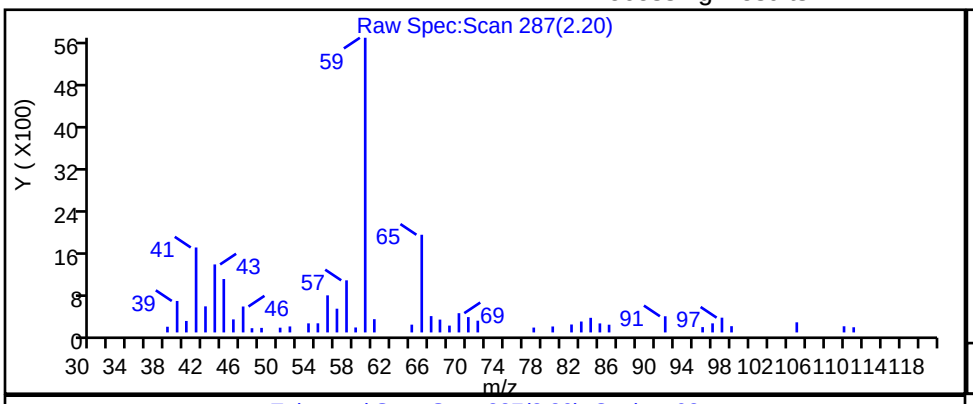
User Disabled Compound Report

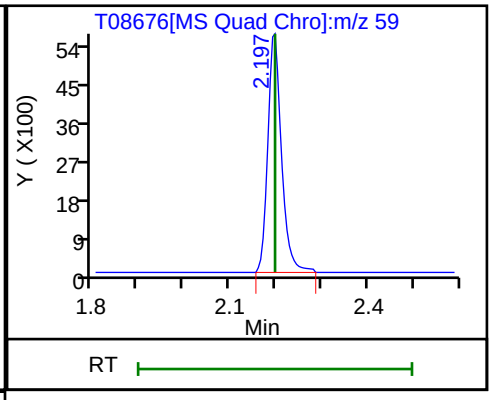
TestAmerica Edison

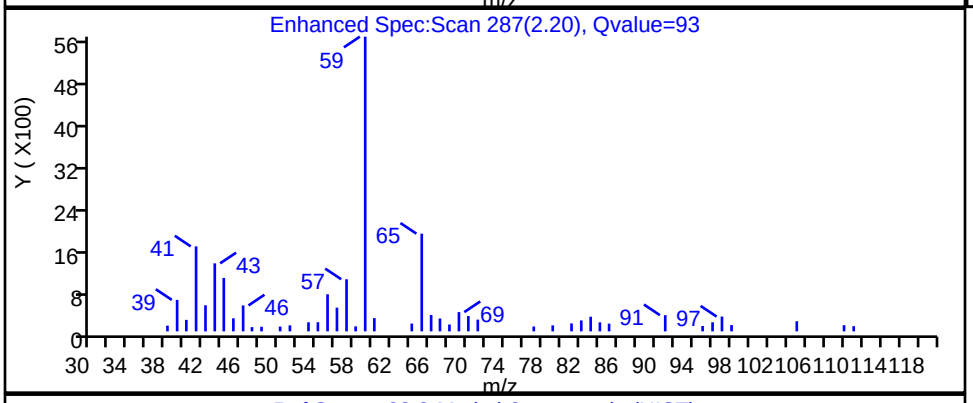
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D				
Injection Date:	20-Jun-2018 20:46:39	Instrument ID:	CVOAMS15		
Lims ID:	STD8				
Client ID:					
Operator ID:		ALS Bottle#:	0	Worklist Smp#:	2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid		
Column:	DB-624 (0.18 mm)	Detector	MS Quad		

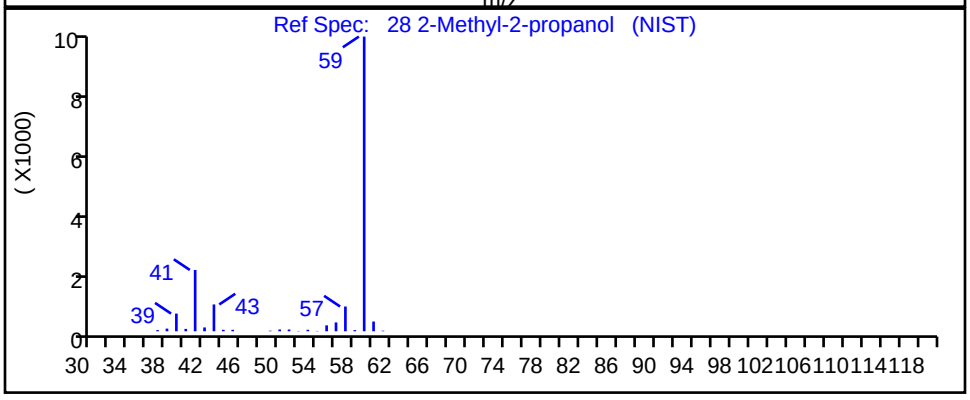
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
2.20	59.00	11782	51.630638

Reviewer: boykink, 20-Jun-2018 22:19:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

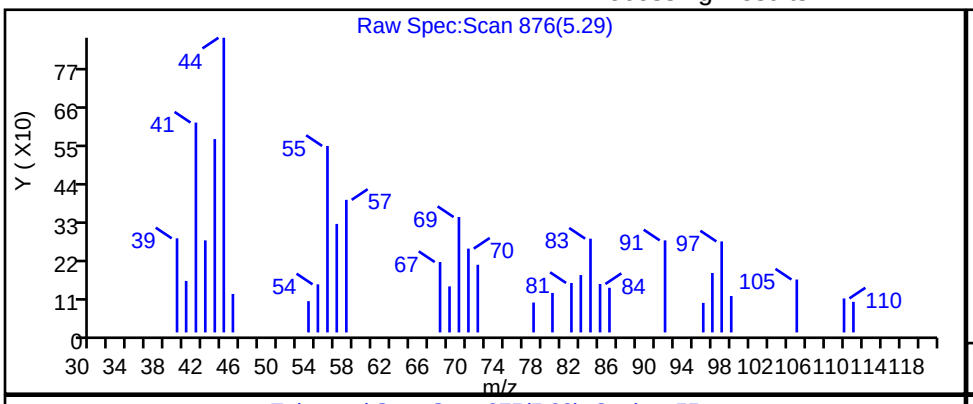
User Disabled Compound Report

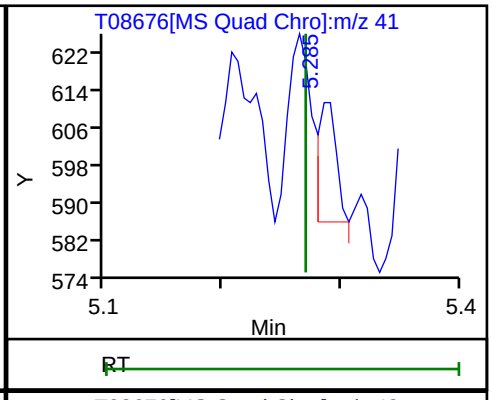
TestAmerica Edison

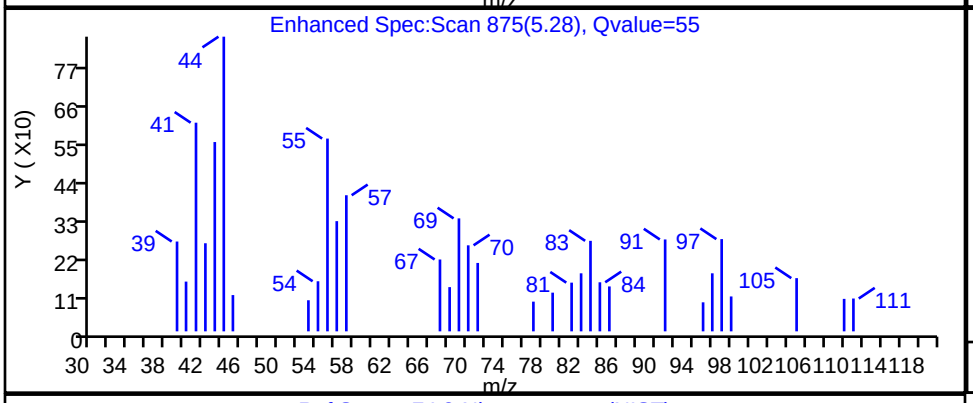
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

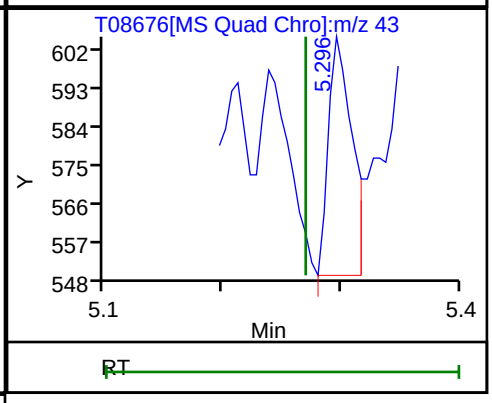
74 2-Nitropropane, CAS: 79-46-9

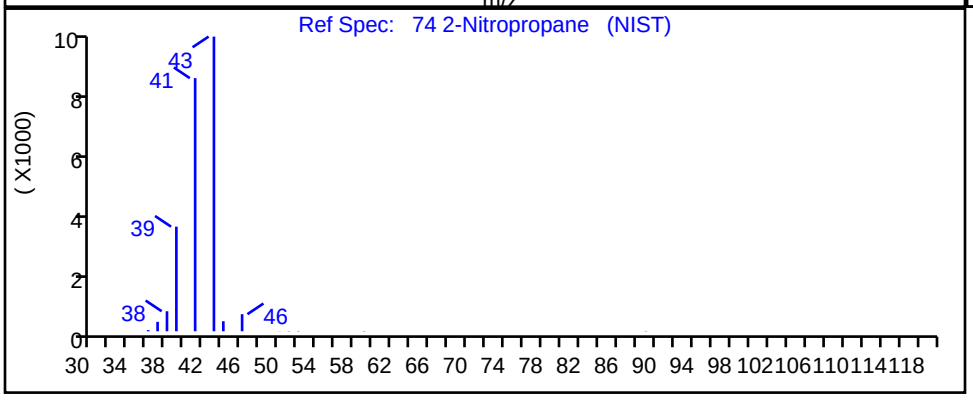
Processing Results











RT	Mass	Response	Amount
5.29	41.00	28	0.051674
5.30	43.00	80	

Reviewer: boykink, 20-Jun-2018 22:20:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

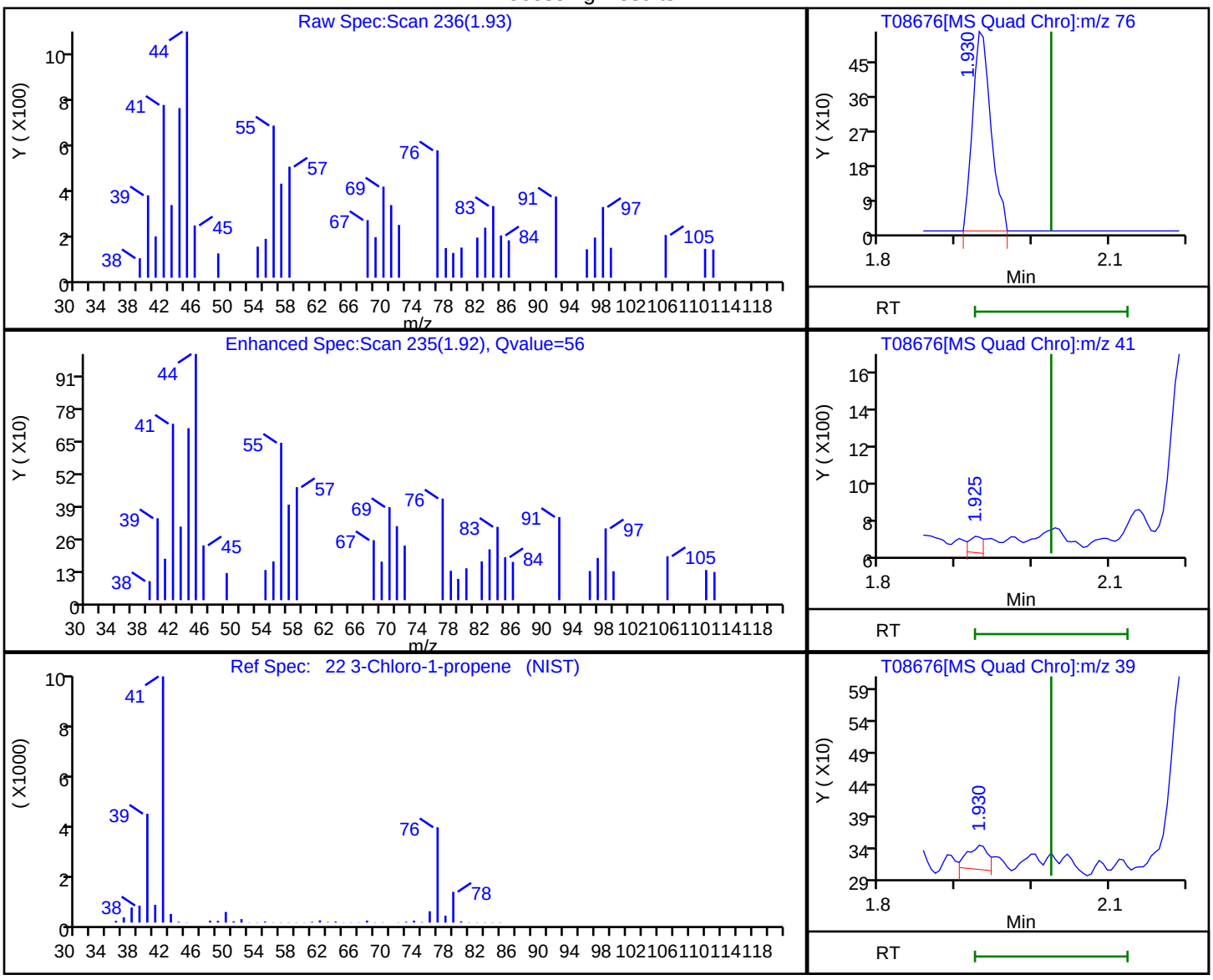
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
1.93	76.00	872	0.524906
1.92	41.00	110	
1.93	39.00	73	

Reviewer: boykink, 20-Jun-2018 22:19:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

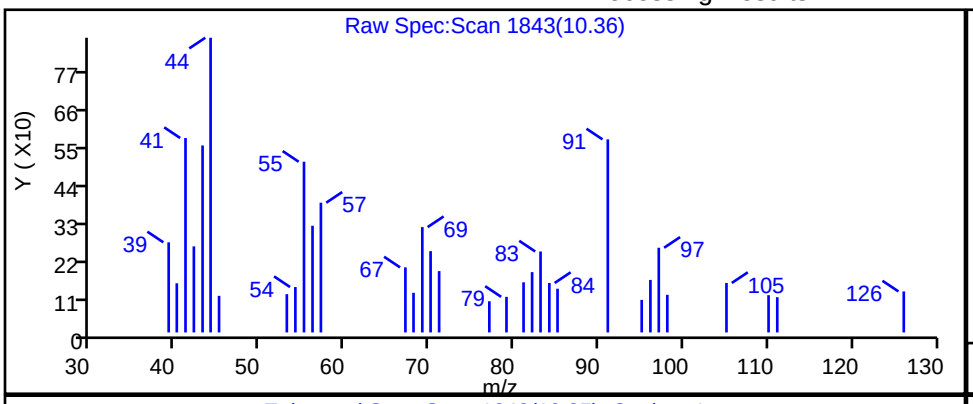
User Disabled Compound Report

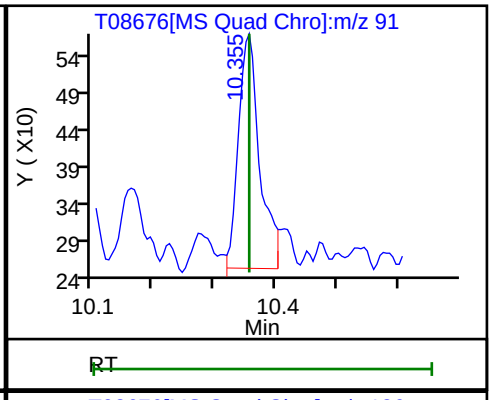
TestAmerica Edison

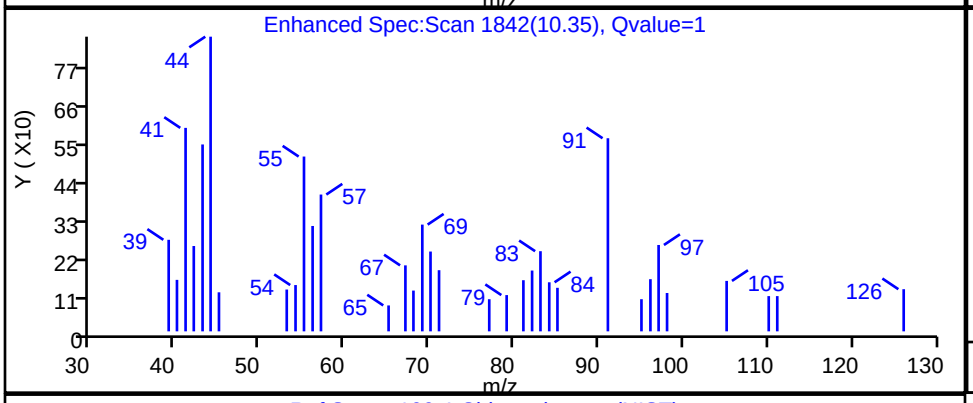
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

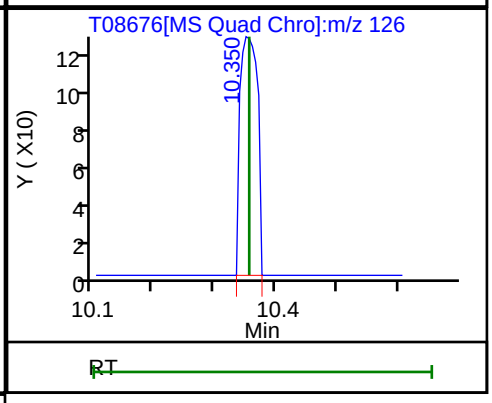
109 4-Chlorotoluene, CAS: 106-43-4

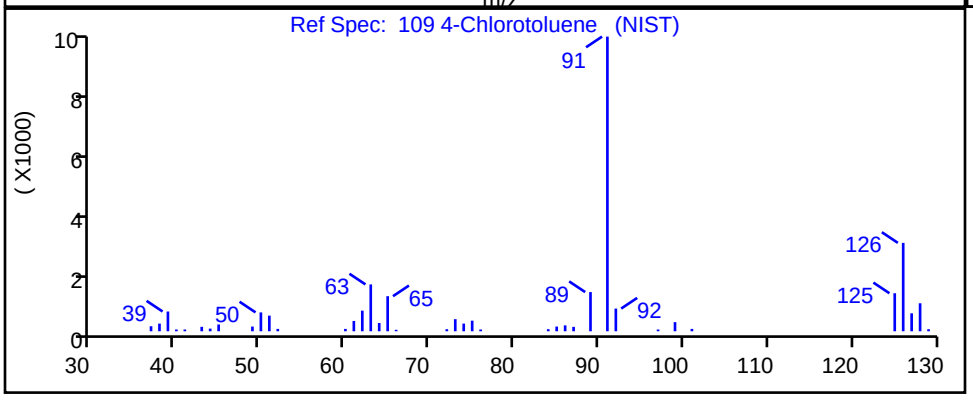
Processing Results











RT	Mass	Response	Amount
10.36	91.00	772	0.078293
10.35	126.00	242	

Reviewer: boykink, 20-Jun-2018 22:20:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

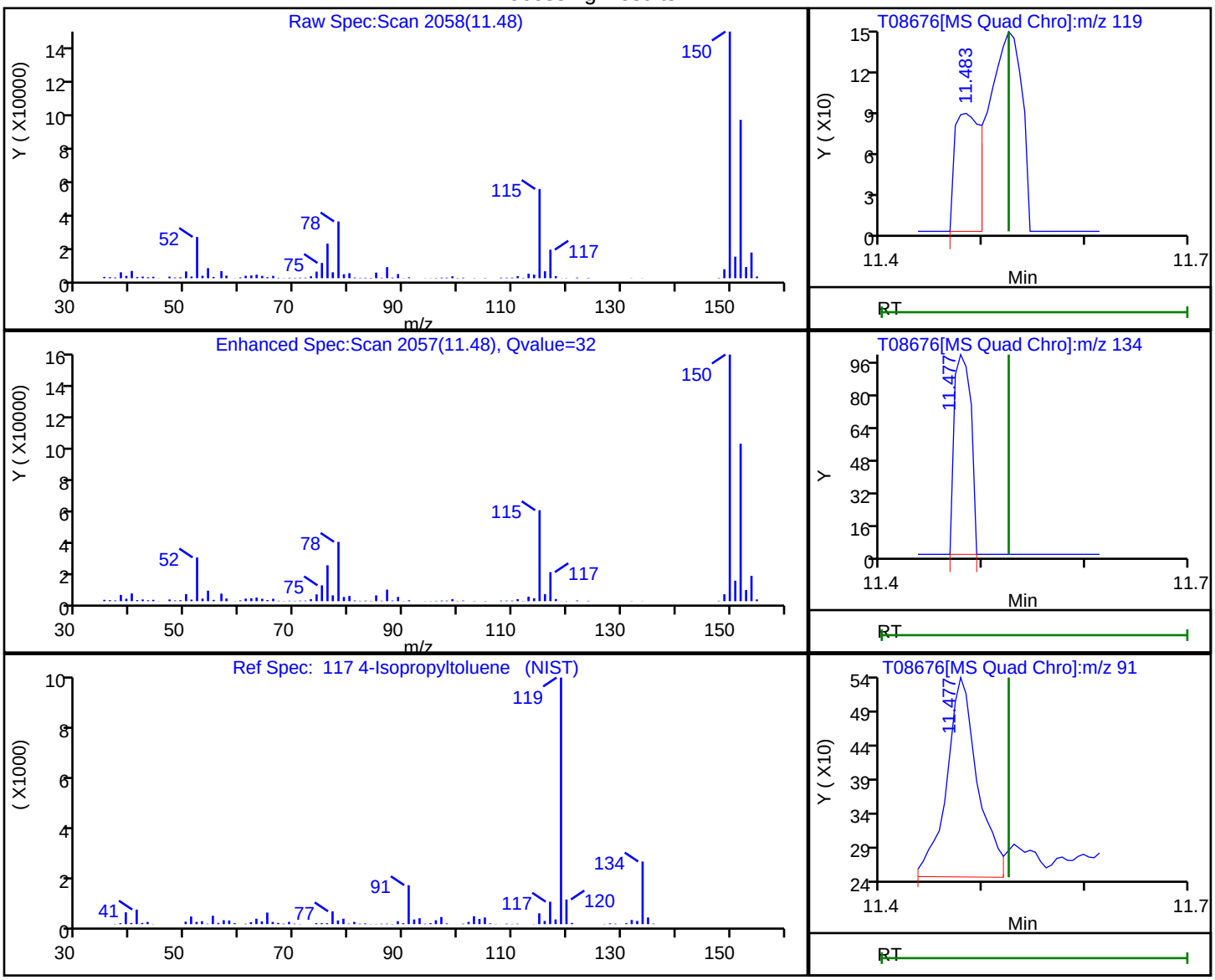
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

117 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.48	119.00	157	0.015401
11.48	134.00	113	
11.48	91.00	626	

Reviewer: boykink, 20-Jun-2018 22:20:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

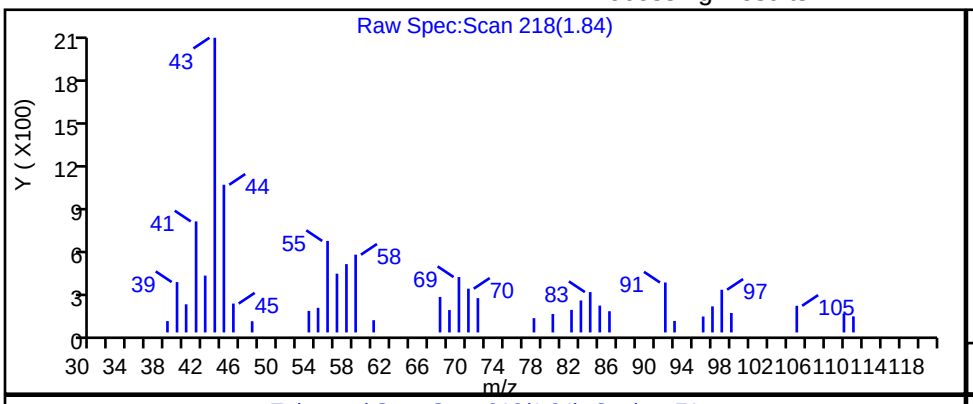
User Disabled Compound Report

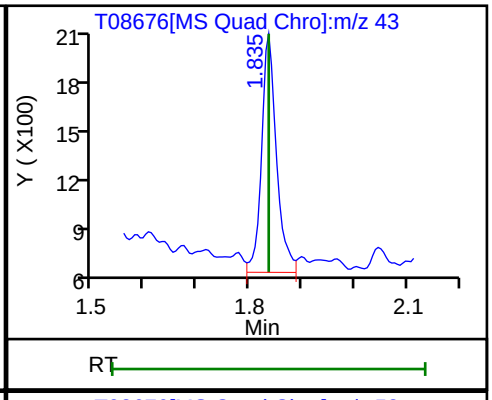
TestAmerica Edison

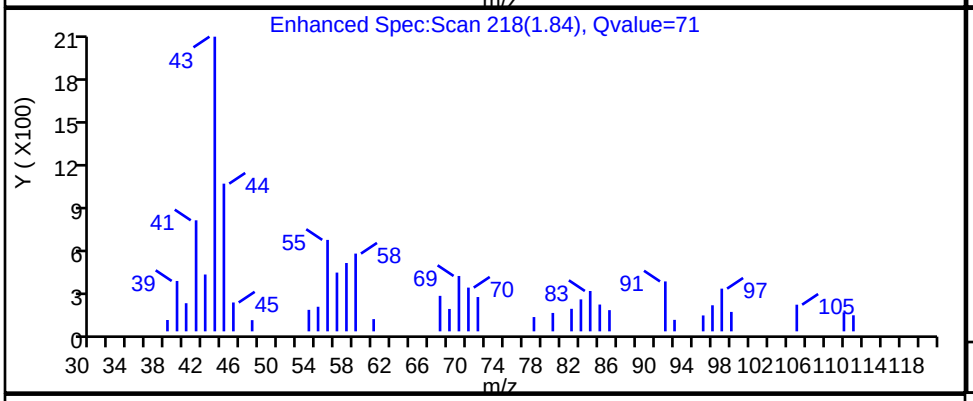
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

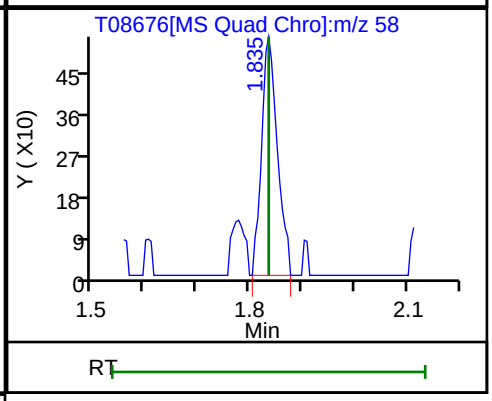
18 Acetone, CAS: 67-64-1

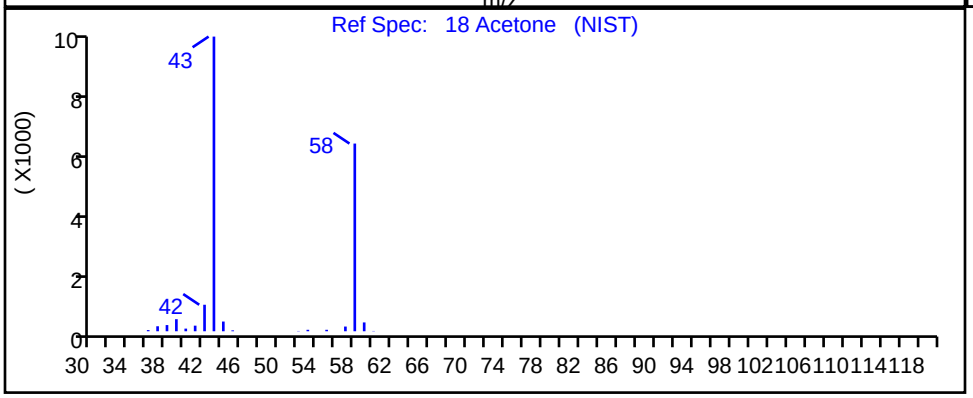
Processing Results











RT	Mass	Response	Amount
1.84	43.00	2730	5.399644
1.84	58.00	1109	

Reviewer: boykink, 20-Jun-2018 22:19:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

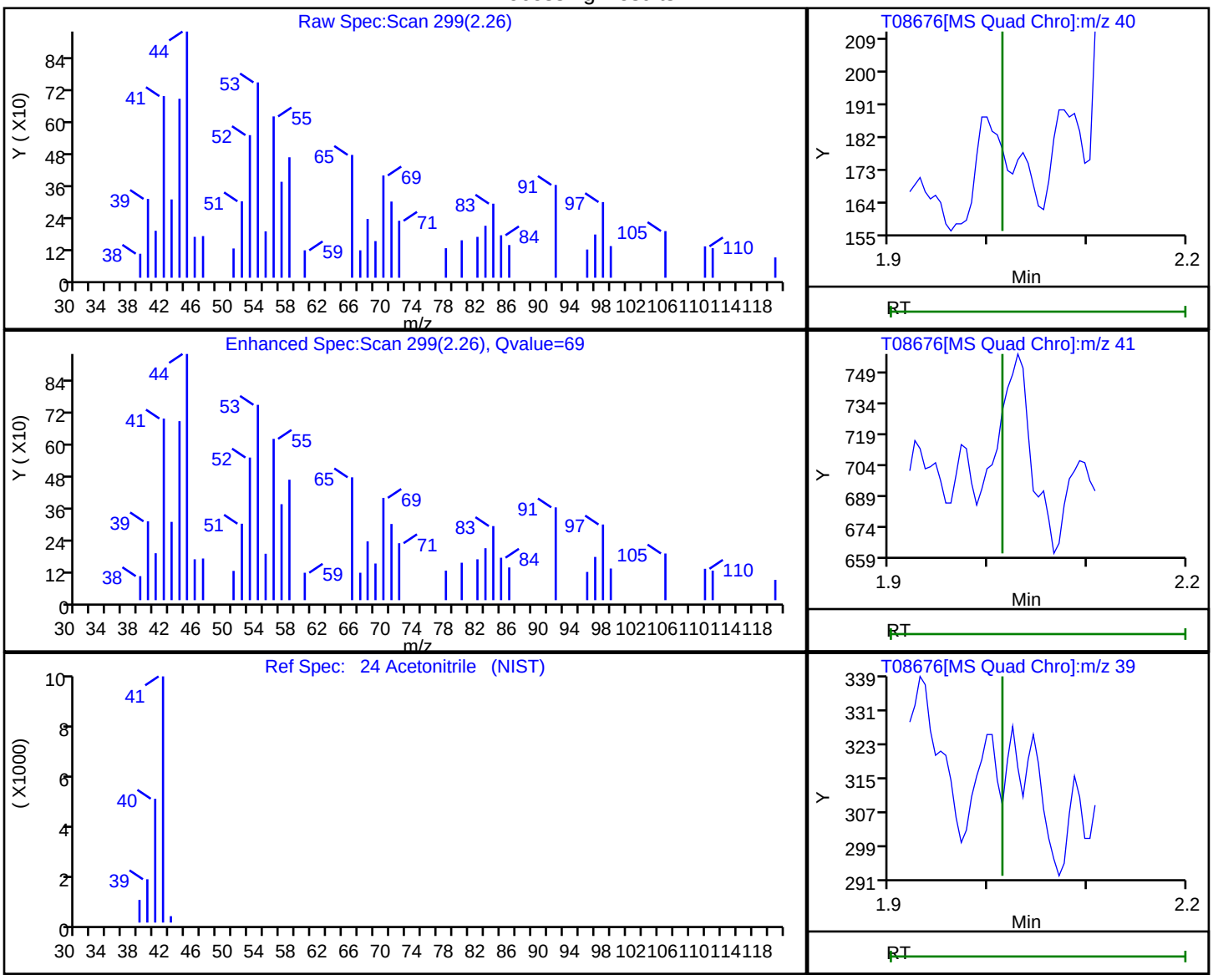
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

24 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.26	40.00	23	0.115683
2.25	41.00	126	
2.25	39.00	40	
2.27	38.00	160	

Reviewer: boykink, 20-Jun-2018 22:19:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

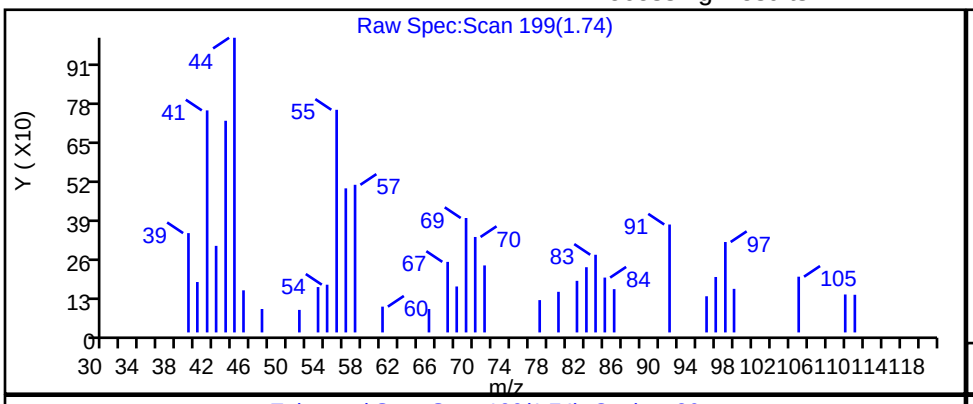
User Disabled Compound Report

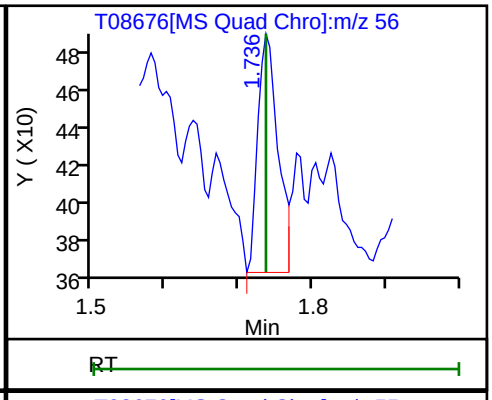
TestAmerica Edison

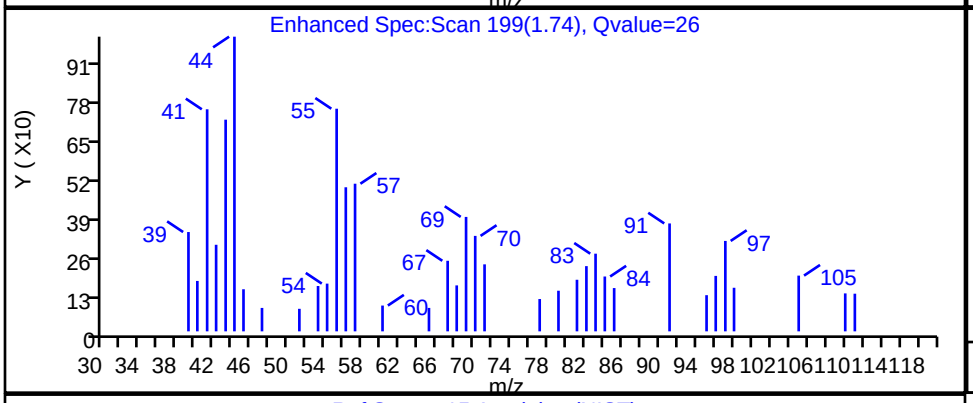
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

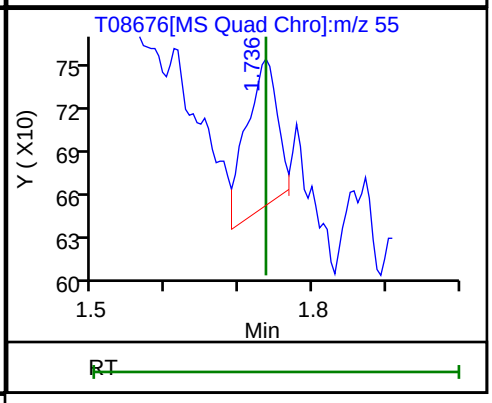
15 Acrolein, CAS: 107-02-8

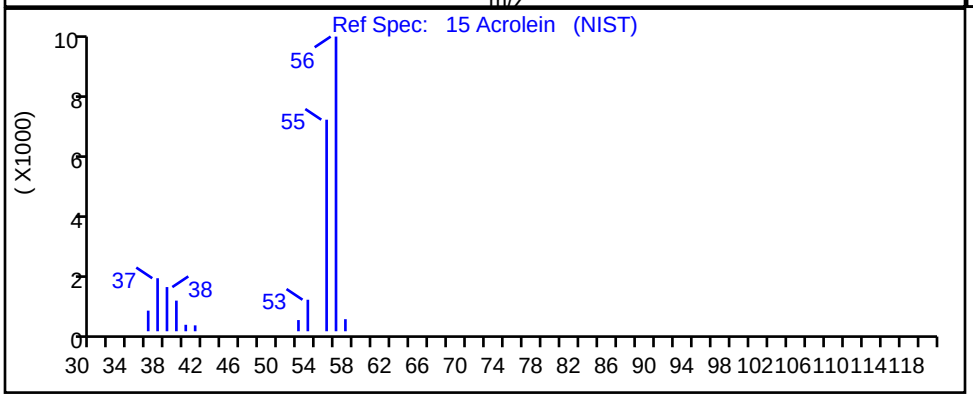
Processing Results











RT	Mass	Response	Amount
1.74	56.00	240	0.972806
1.74	55.00	299	

Reviewer: boykink, 20-Jun-2018 22:19:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

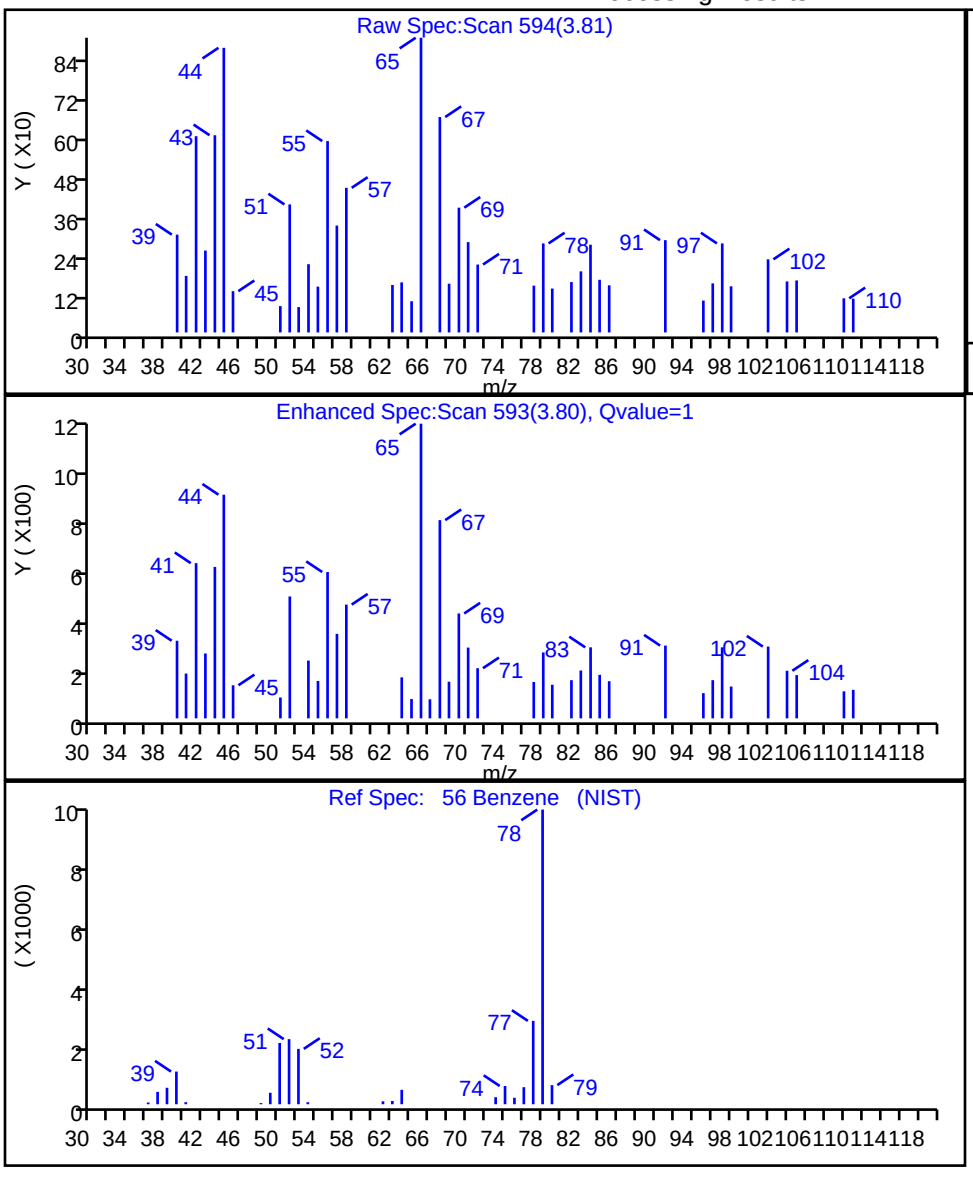
User Disabled Compound Report

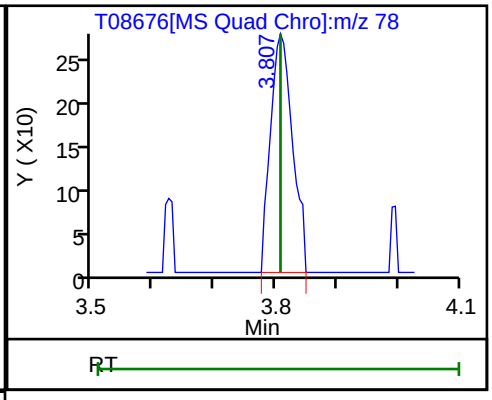
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

56 Benzene, CAS: 71-43-2

Processing Results





RT	Mass	Response	Amount
3.81	78.00	689	0.062538

Reviewer: boykink, 20-Jun-2018 22:19:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

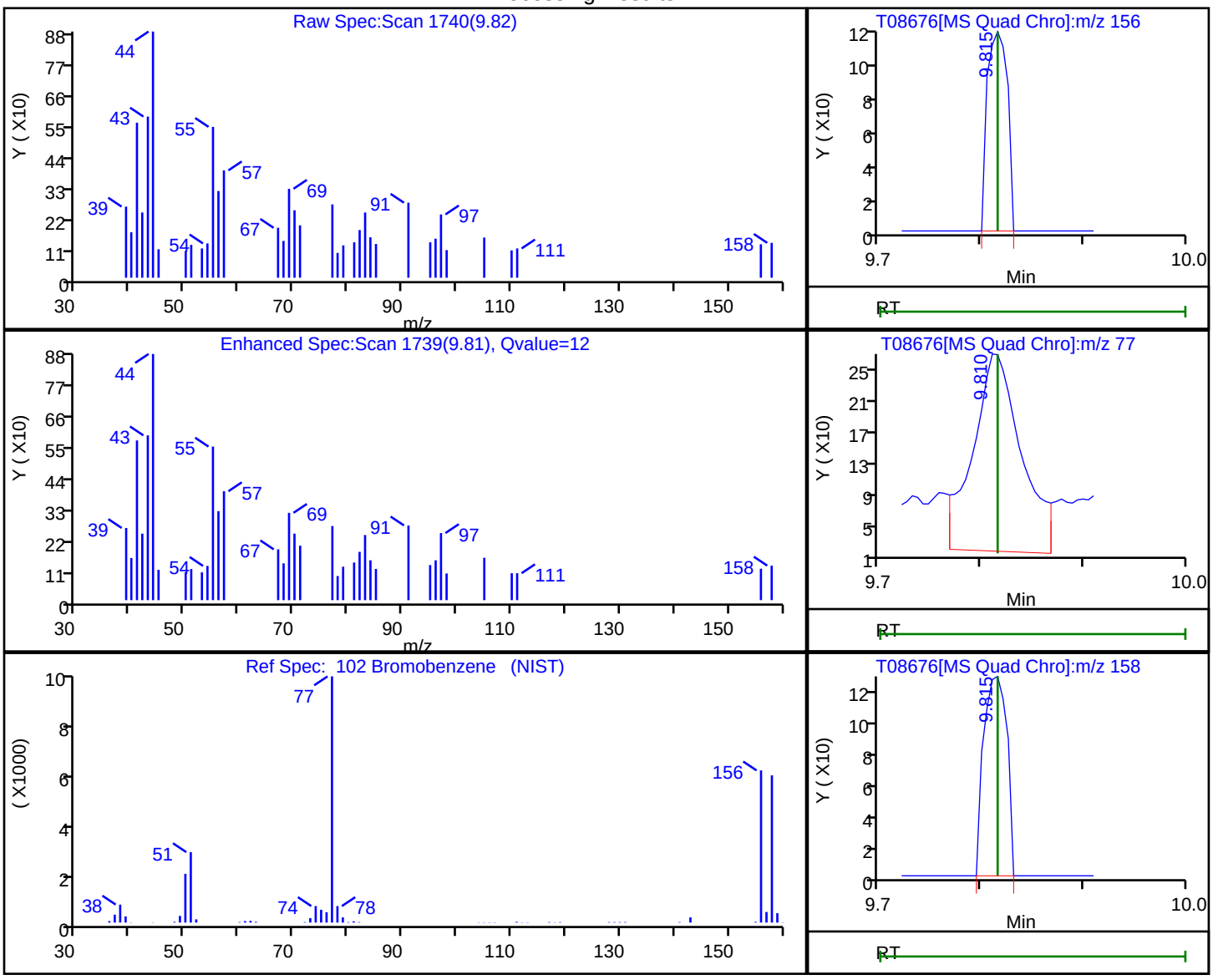
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D		
Injection Date:	20-Jun-2018 20:46:39	Instrument ID:	CVOAMS15
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

102 Bromobenzene, CAS: 108-86-1

Processing Results



RT	Mass	Response	Amount
9.82	156.00	165	0.055880
9.81	77.00	817	
9.82	158.00	198	

Reviewer: boykink, 20-Jun-2018 22:20:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

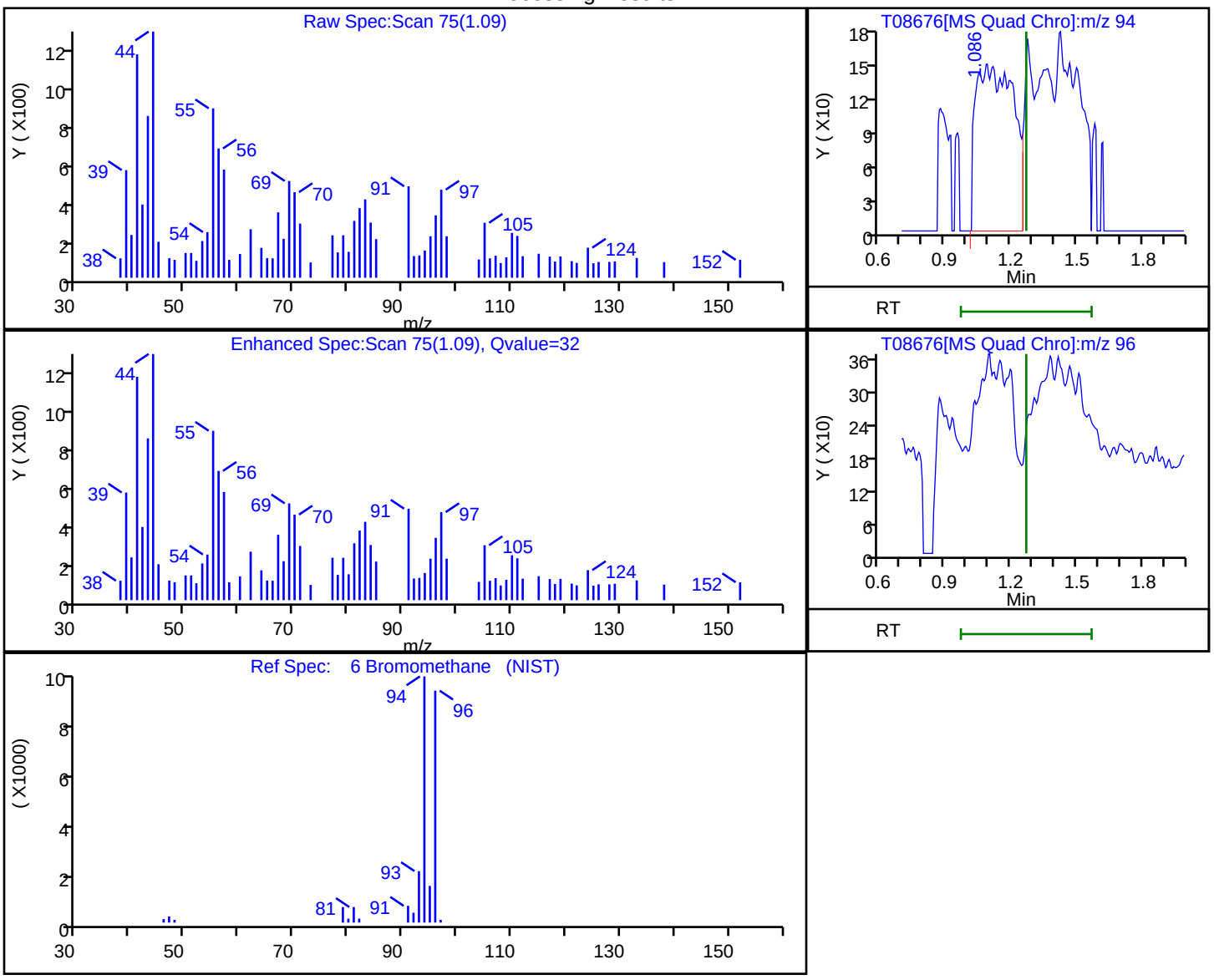
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.09	94.00	1720	0.250000
1.10	96.00	32657	

Reviewer: boykink, 20-Jun-2018 22:19:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

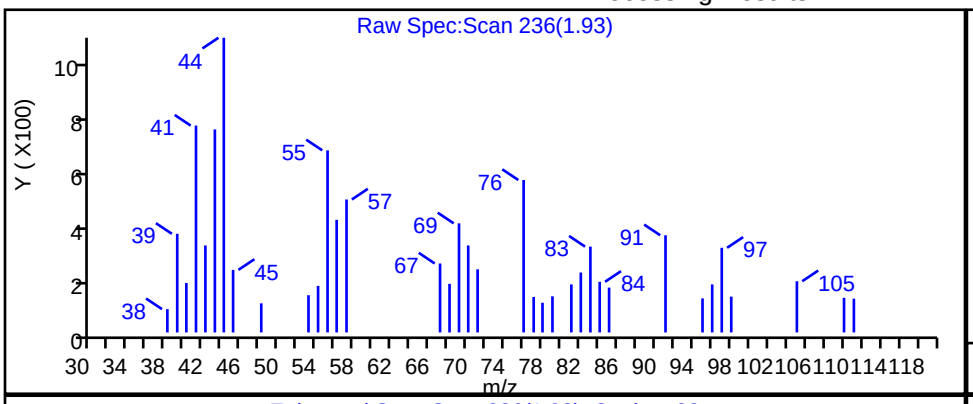
User Disabled Compound Report

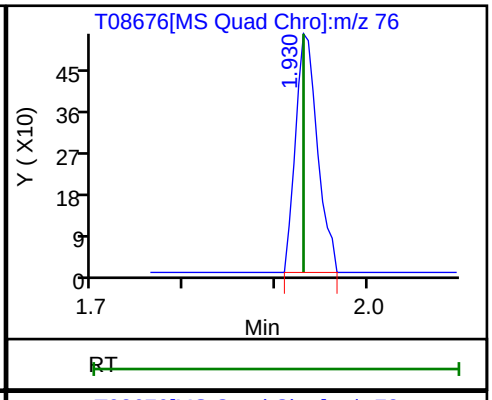
TestAmerica Edison

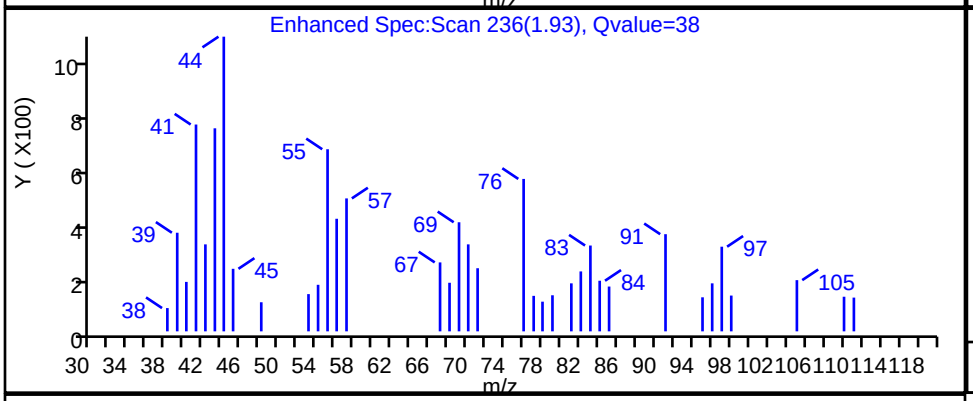
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

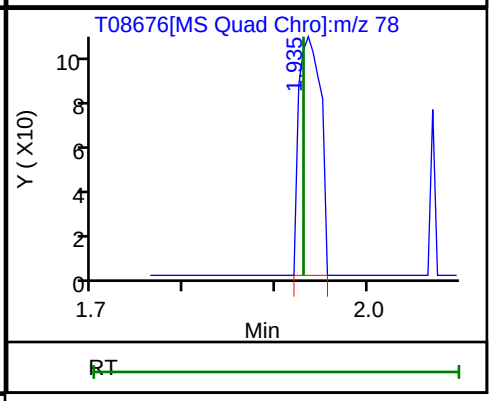
21 Carbon disulfide, CAS: 75-15-0

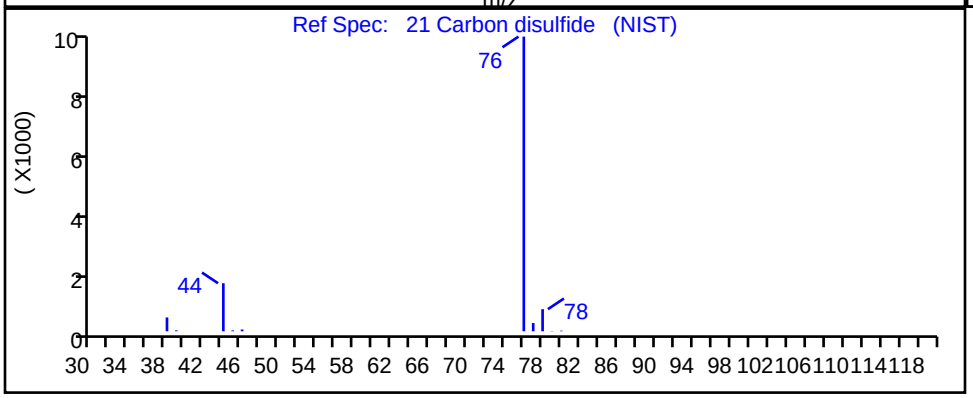
Processing Results











RT	Mass	Response	Amount
1.93	76.00	872	0.139717
1.94	78.00	178	

Reviewer: boykink, 20-Jun-2018 22:19:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

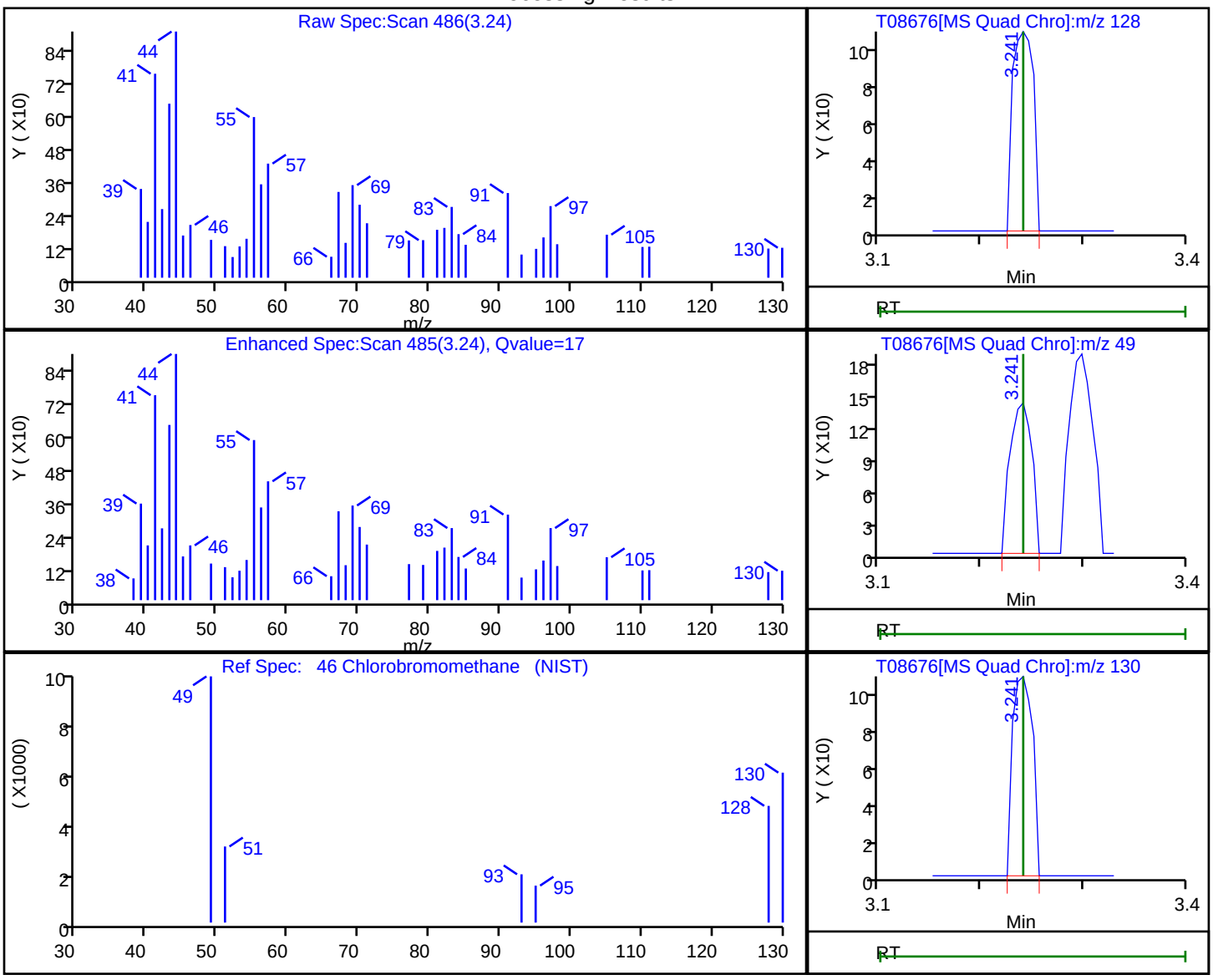
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

46 Chlorobromomethane, CAS: 74-97-5

Processing Results



RT	Mass	Response	Amount
3.24	128.00	152	0.125176
3.24	49.00	206	
3.24	130.00	150	

Reviewer: boykink, 20-Jun-2018 22:19:52
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

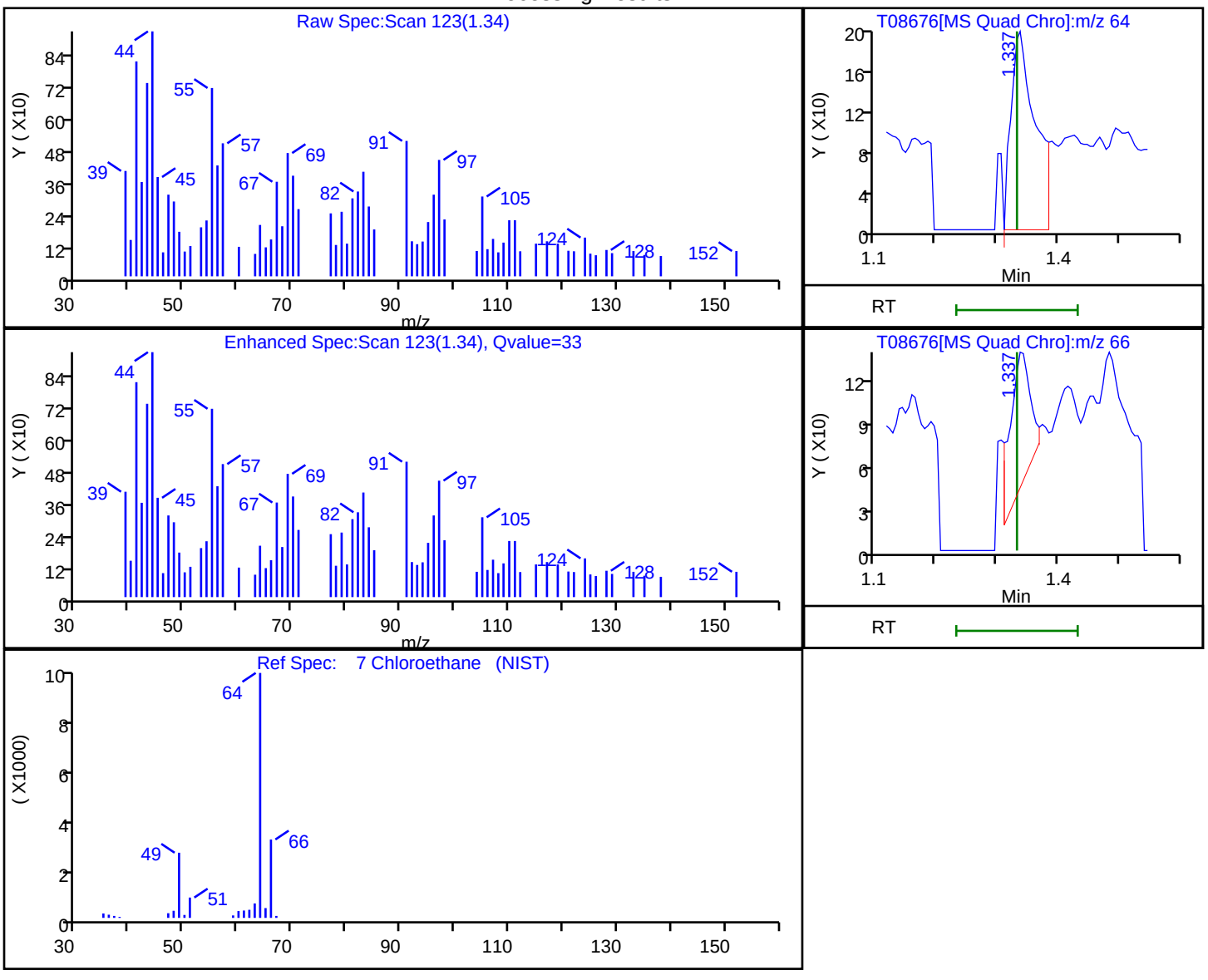
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.34	64.00	547	0.250000
1.34	66.00	220	

Reviewer: boykink, 20-Jun-2018 22:19:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

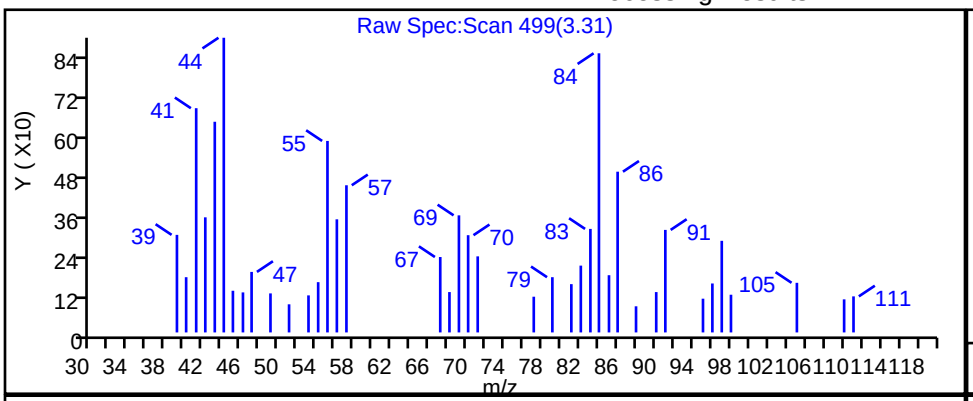
User Disabled Compound Report

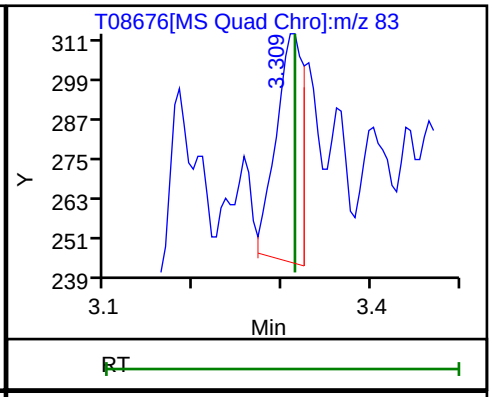
TestAmerica Edison

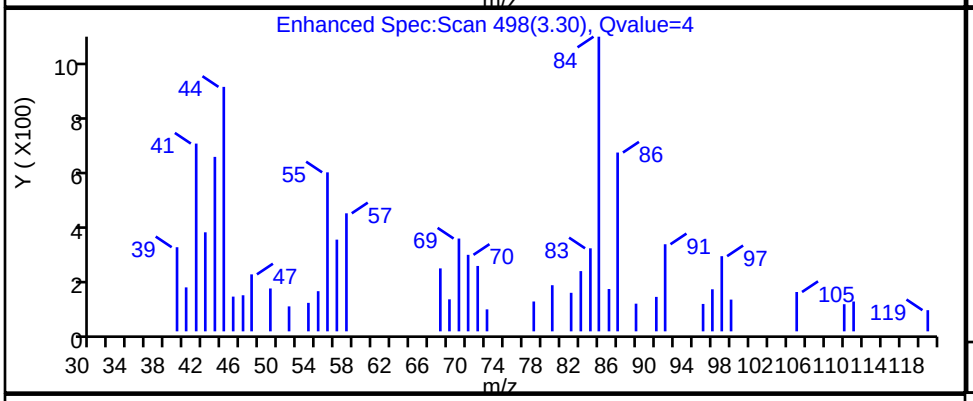
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

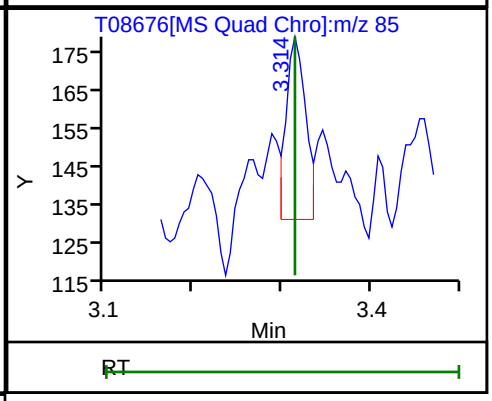
48 Chloroform, CAS: 67-66-3

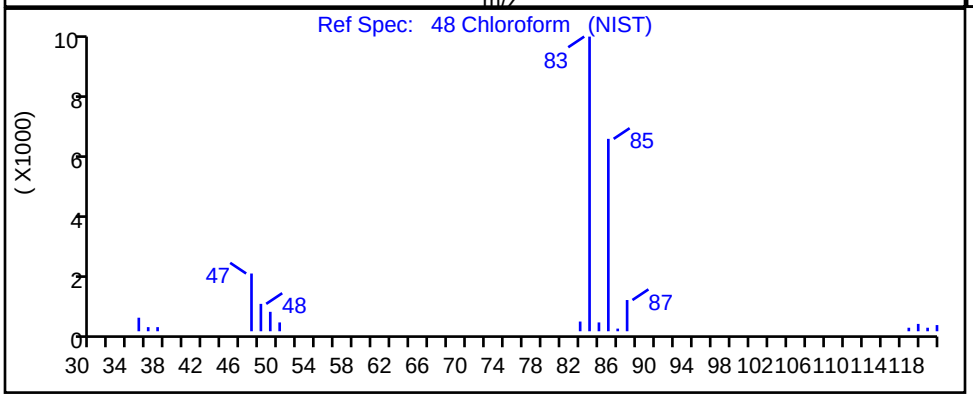
Processing Results











RT	Mass	Response	Amount
3.31	83.00	153	0.033719
3.31	85.00	78	

Reviewer: boykink, 20-Jun-2018 22:19:54
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

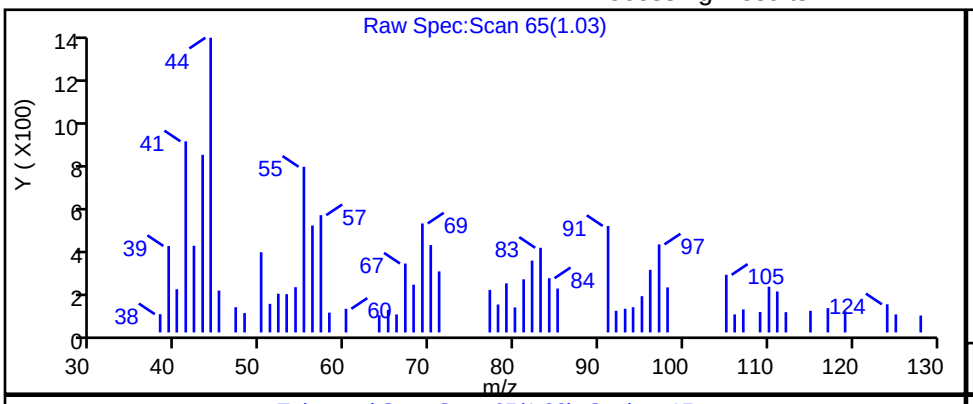
User Disabled Compound Report

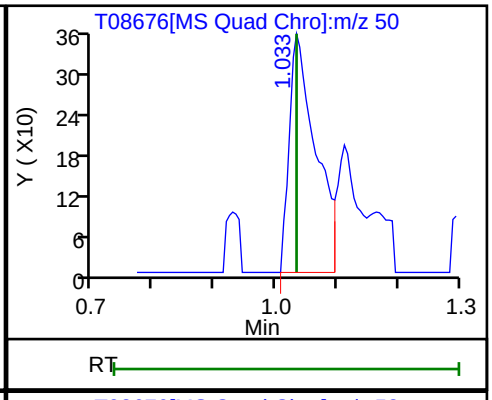
TestAmerica Edison

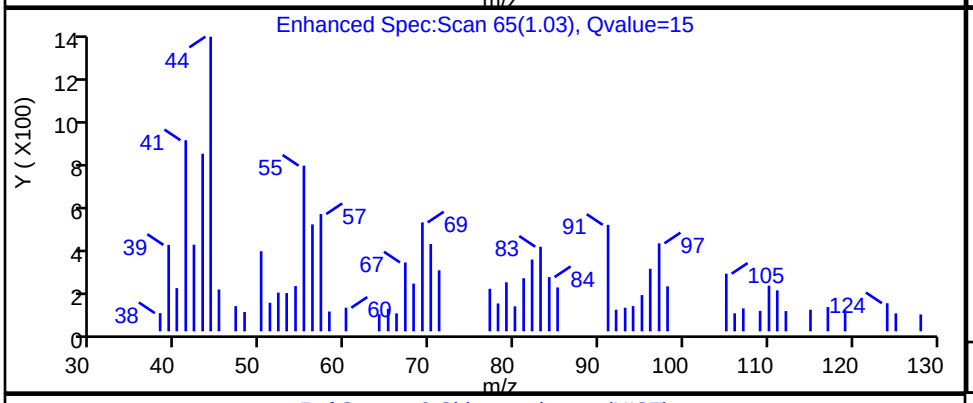
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

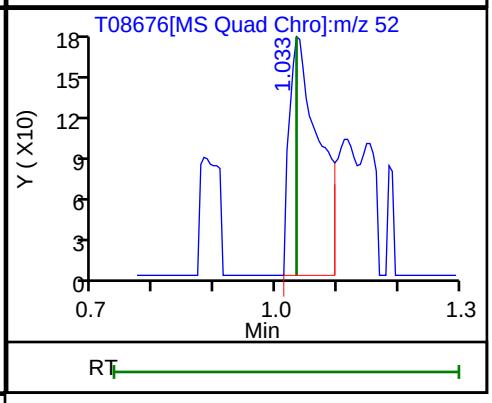
3 Chloromethane, CAS: 74-87-3

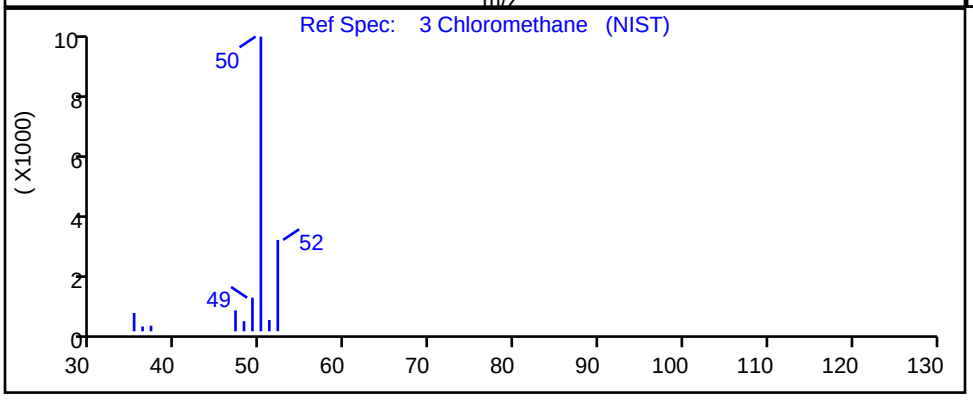
Processing Results











RT	Mass	Response	Amount
1.03	50.00	1079	0.250000
1.03	52.00	580	

Reviewer: boykink, 20-Jun-2018 22:18:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

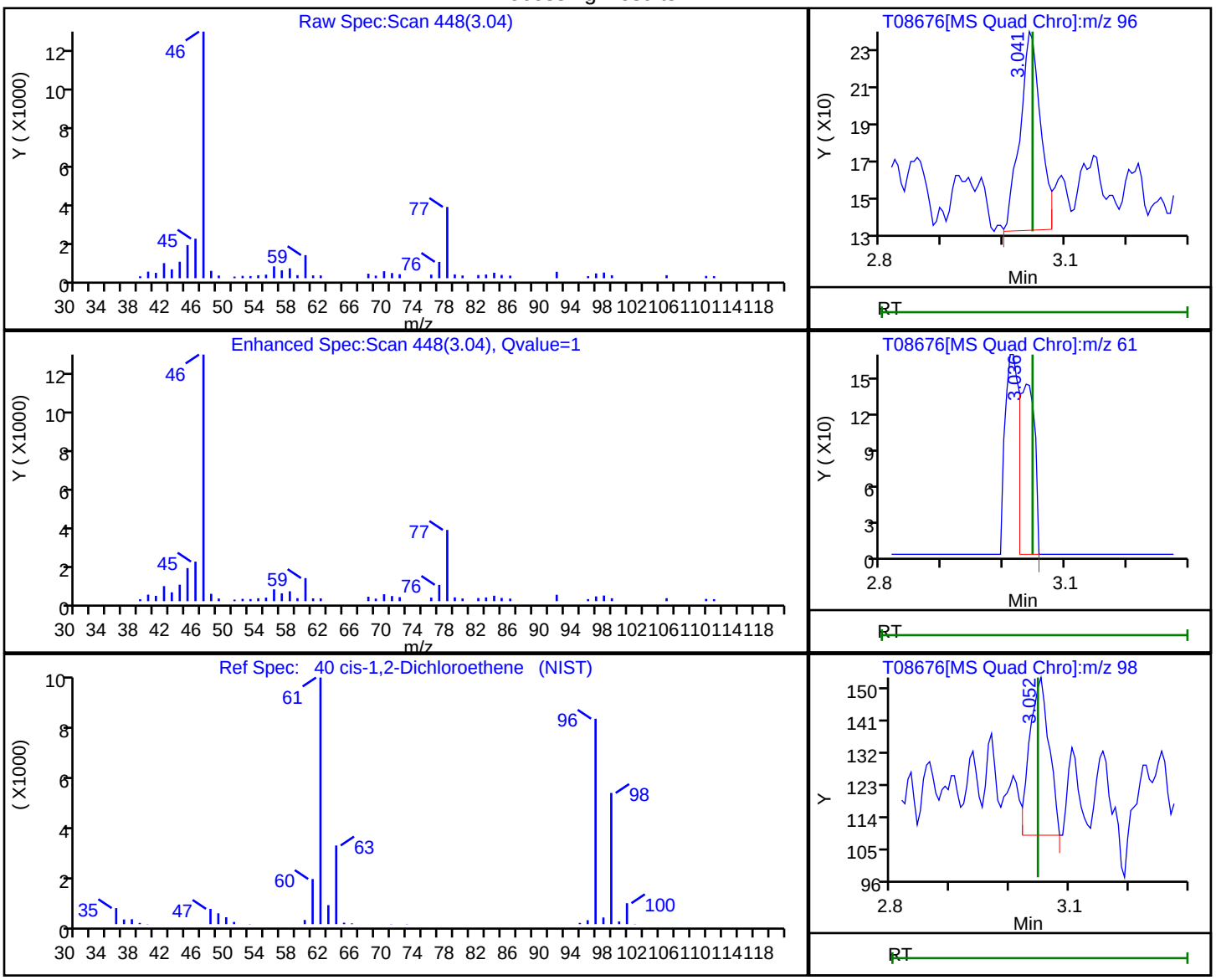
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

40 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
3.04	96.00	233	0.078415
3.04	61.00	237	
3.05	98.00	101	

Reviewer: boykink, 20-Jun-2018 22:19:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

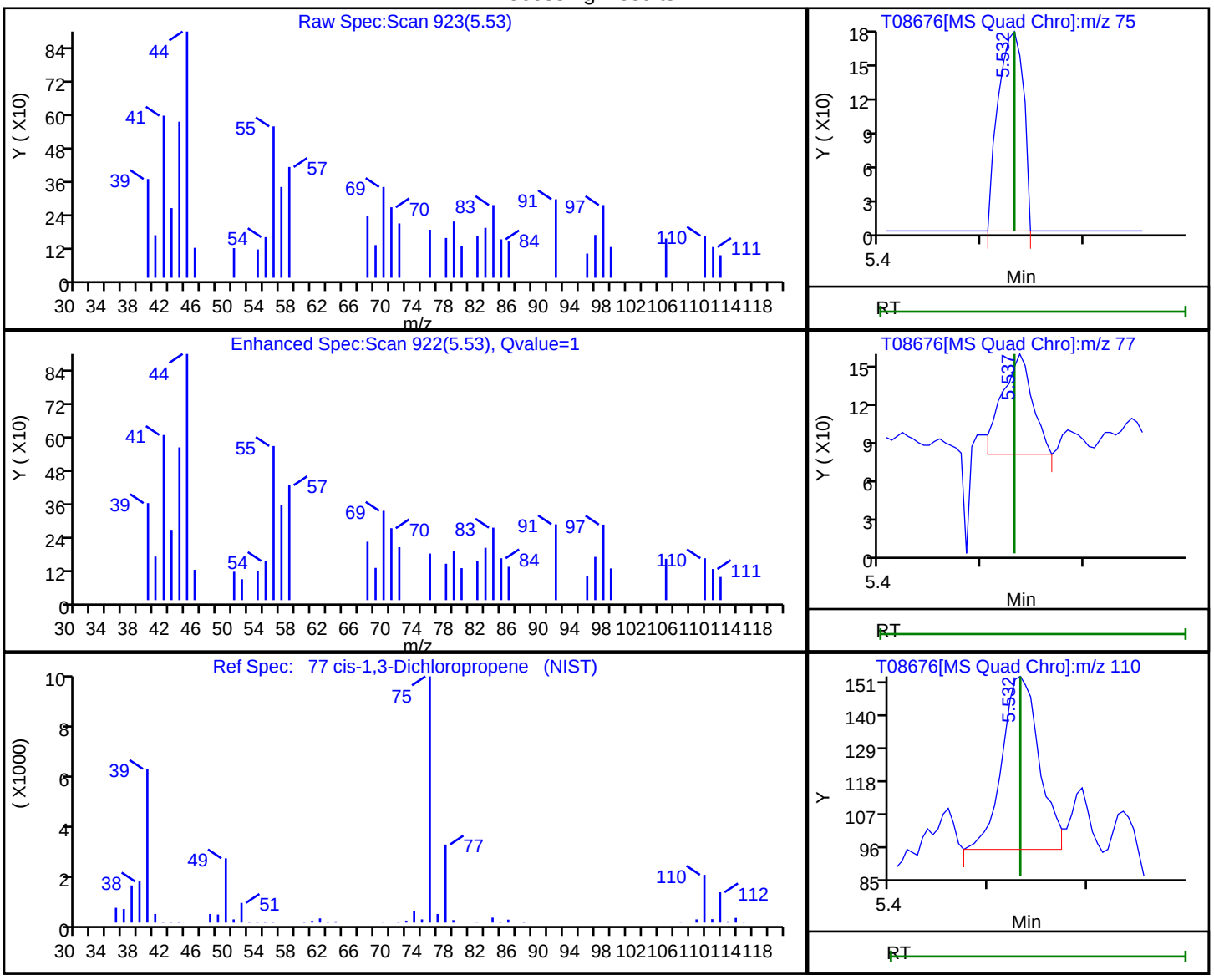
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

77 cis-1,3-Dichloropropene, CAS: 10061-01-5

Processing Results



RT	Mass	Response	Amount
5.53	75.00	300	0.072385
5.54	77.00	161	
5.53	110.00	155	

Reviewer: boykink, 20-Jun-2018 22:20:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

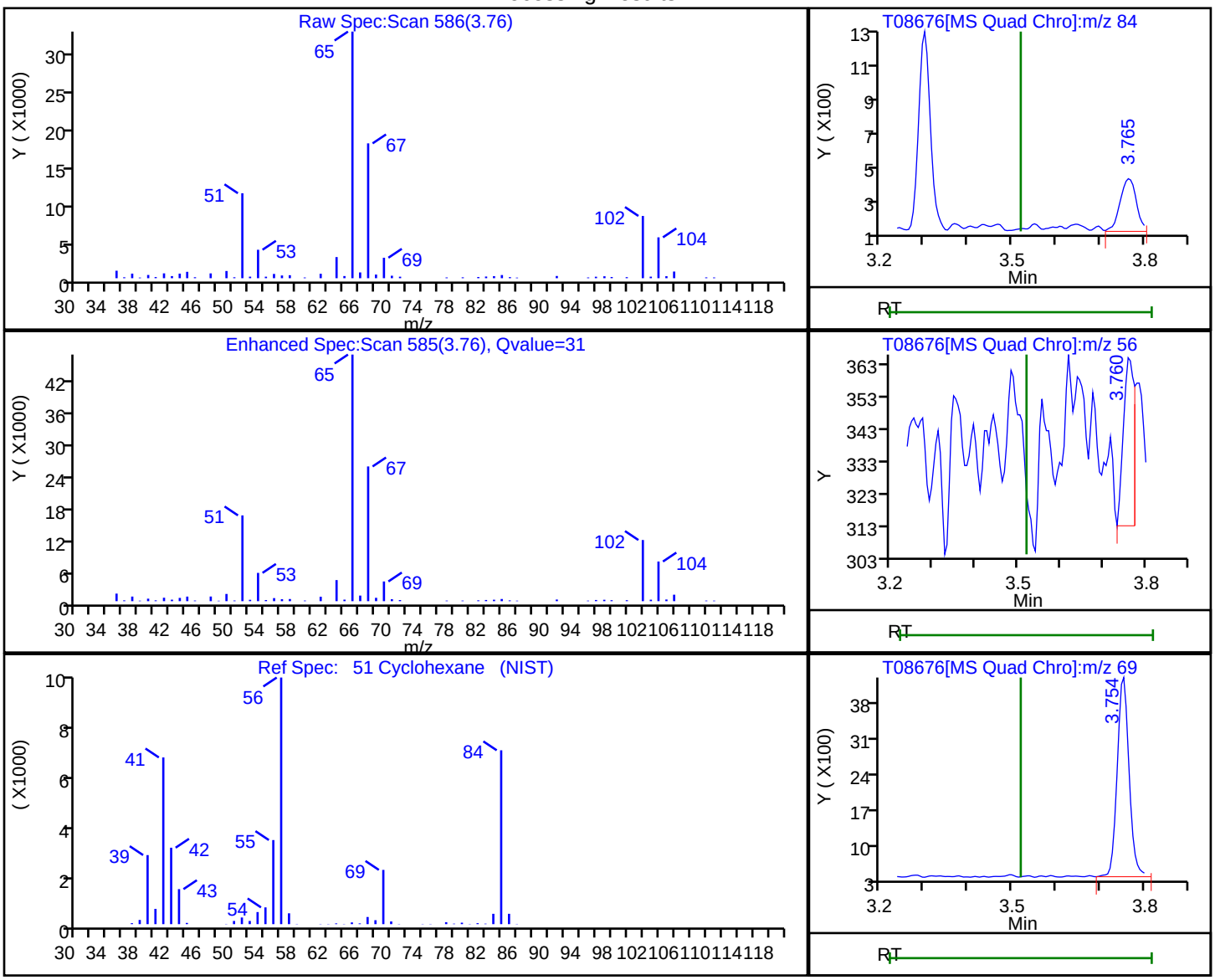
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

51 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
3.76	84.00	728	0.202040
3.76	56.00	95	
3.75	69.00	7392	

Reviewer: boykink, 20-Jun-2018 22:19:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

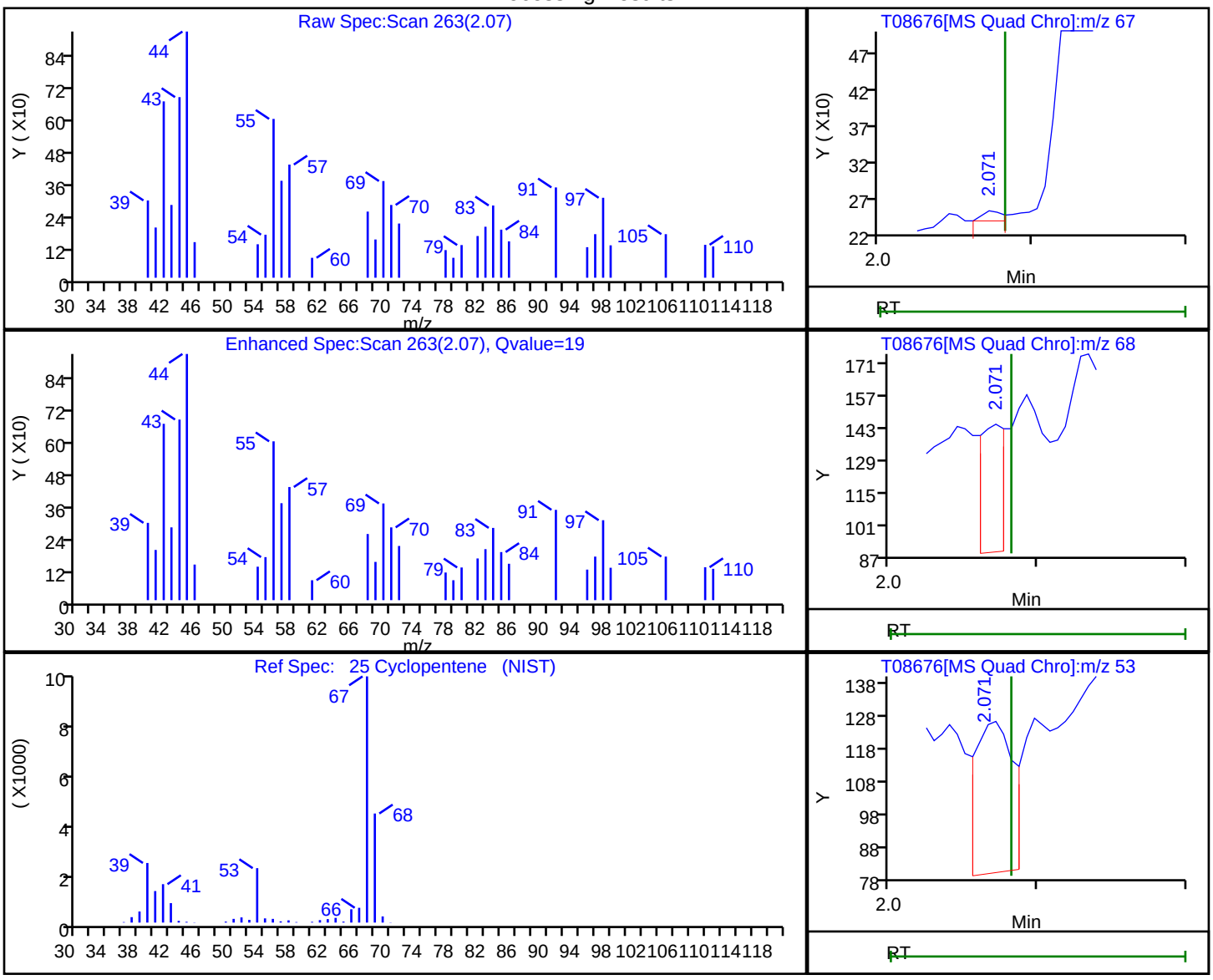
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

25 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
2.07	67.00	13	0.002118
2.07	68.00	68	
2.07	53.00	88	

Reviewer: boykink, 20-Jun-2018 22:19:25
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

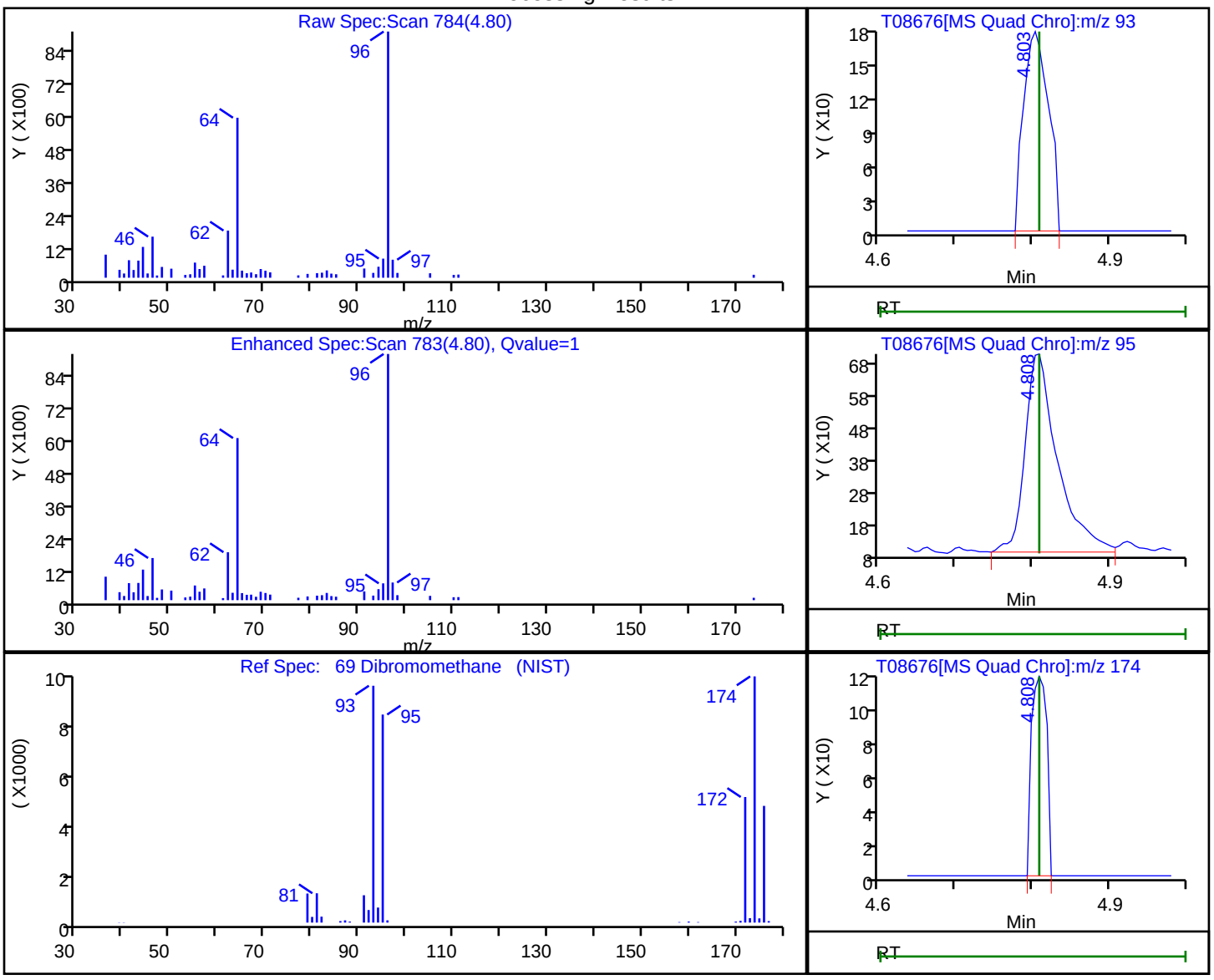
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

69 Dibromomethane, CAS: 74-95-3

Processing Results



RT	Mass	Response	Amount
4.80	93.00	400	0.240675
4.81	95.00	1820	
4.81	174.00	160	

Reviewer: boykink, 20-Jun-2018 22:20:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

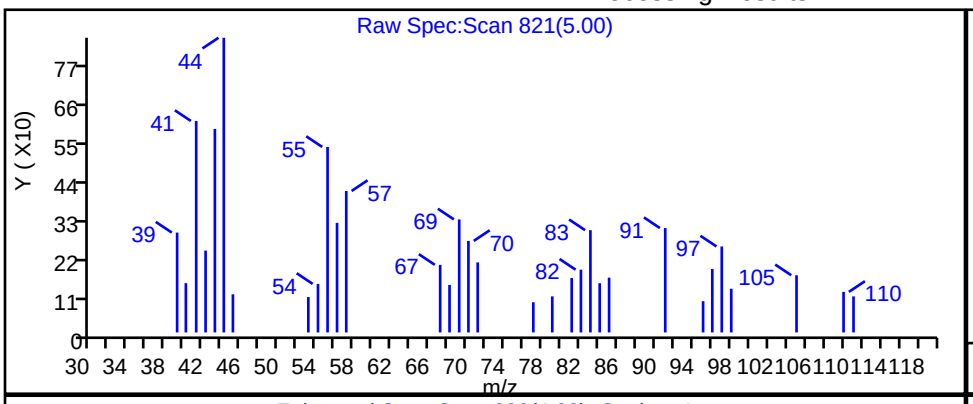
User Disabled Compound Report

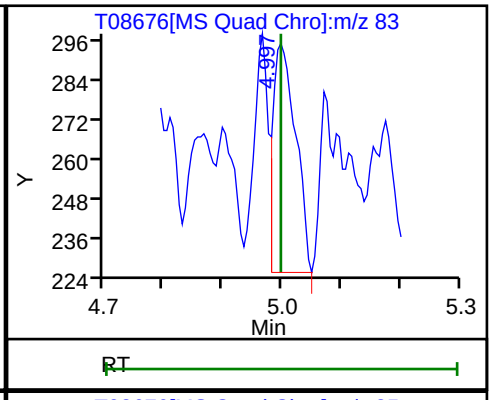
TestAmerica Edison

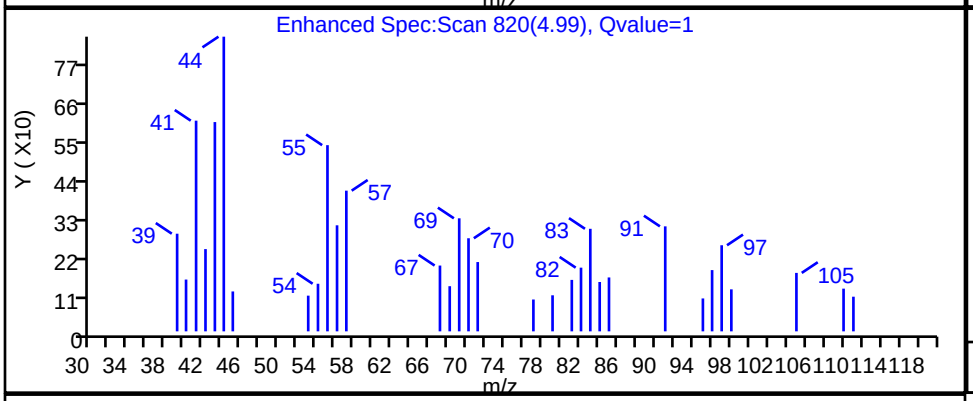
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

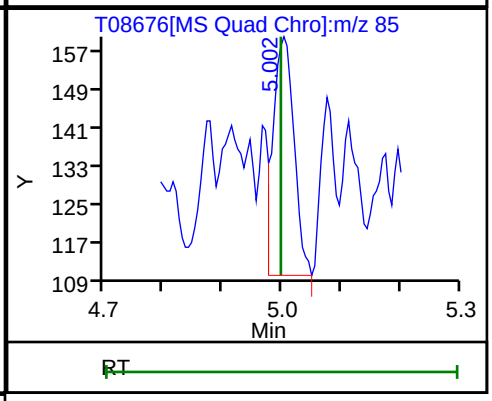
73 Dichlorobromomethane, CAS: 75-27-4

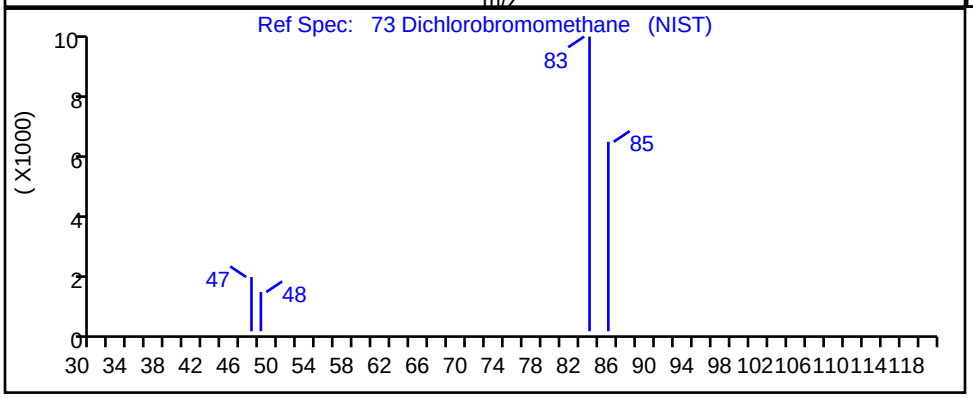
Processing Results











RT	Mass	Response	Amount
5.00	83.00	189	0.059058
5.00	85.00	126	

Reviewer: boykink, 20-Jun-2018 22:20:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

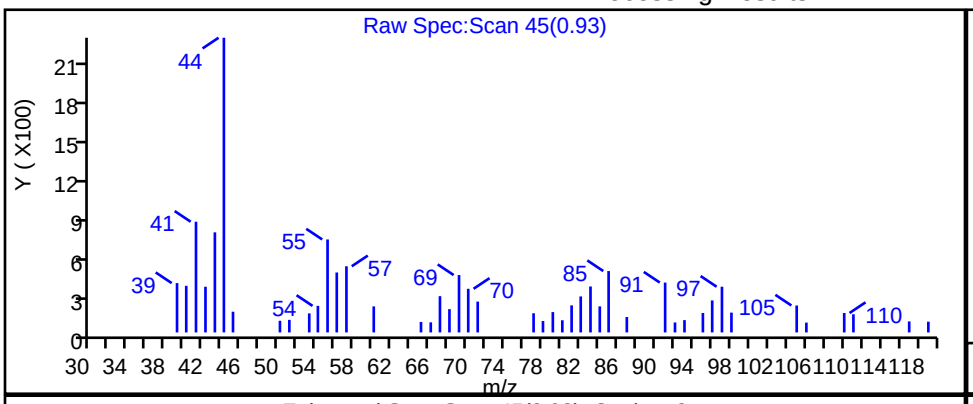
User Disabled Compound Report

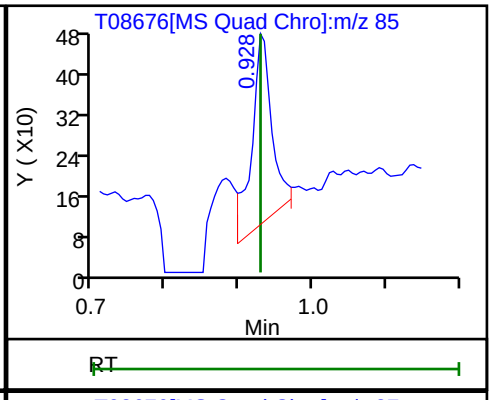
TestAmerica Edison

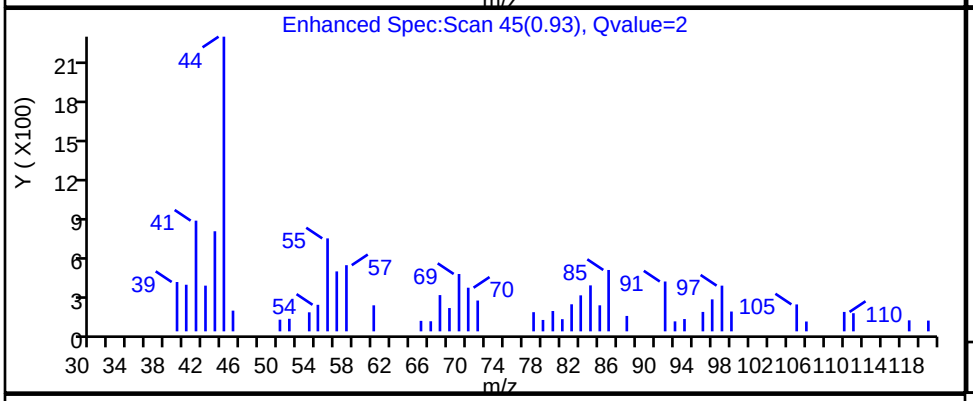
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

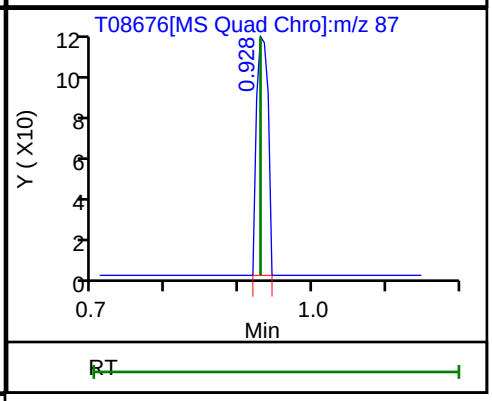
2 Dichlorodifluoromethane, CAS: 75-71-8

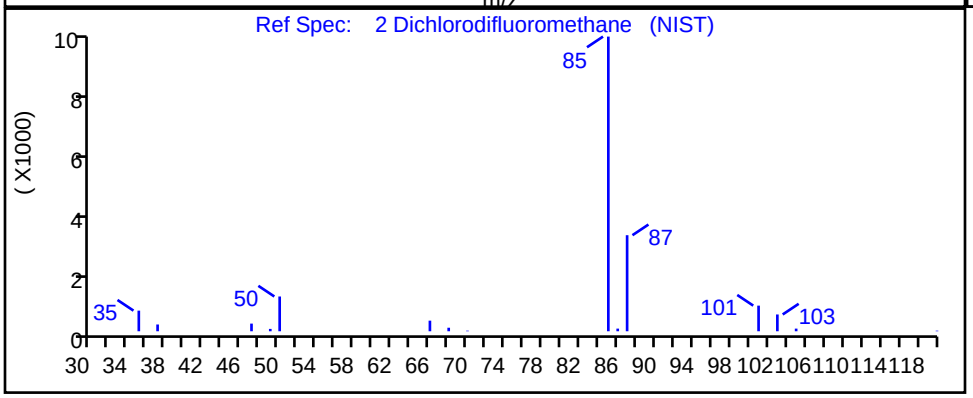
Processing Results











RT	Mass	Response	Amount
0.93	85.00	725	0.250000
0.93	87.00	131	

Reviewer: boykink, 20-Jun-2018 22:18:56
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

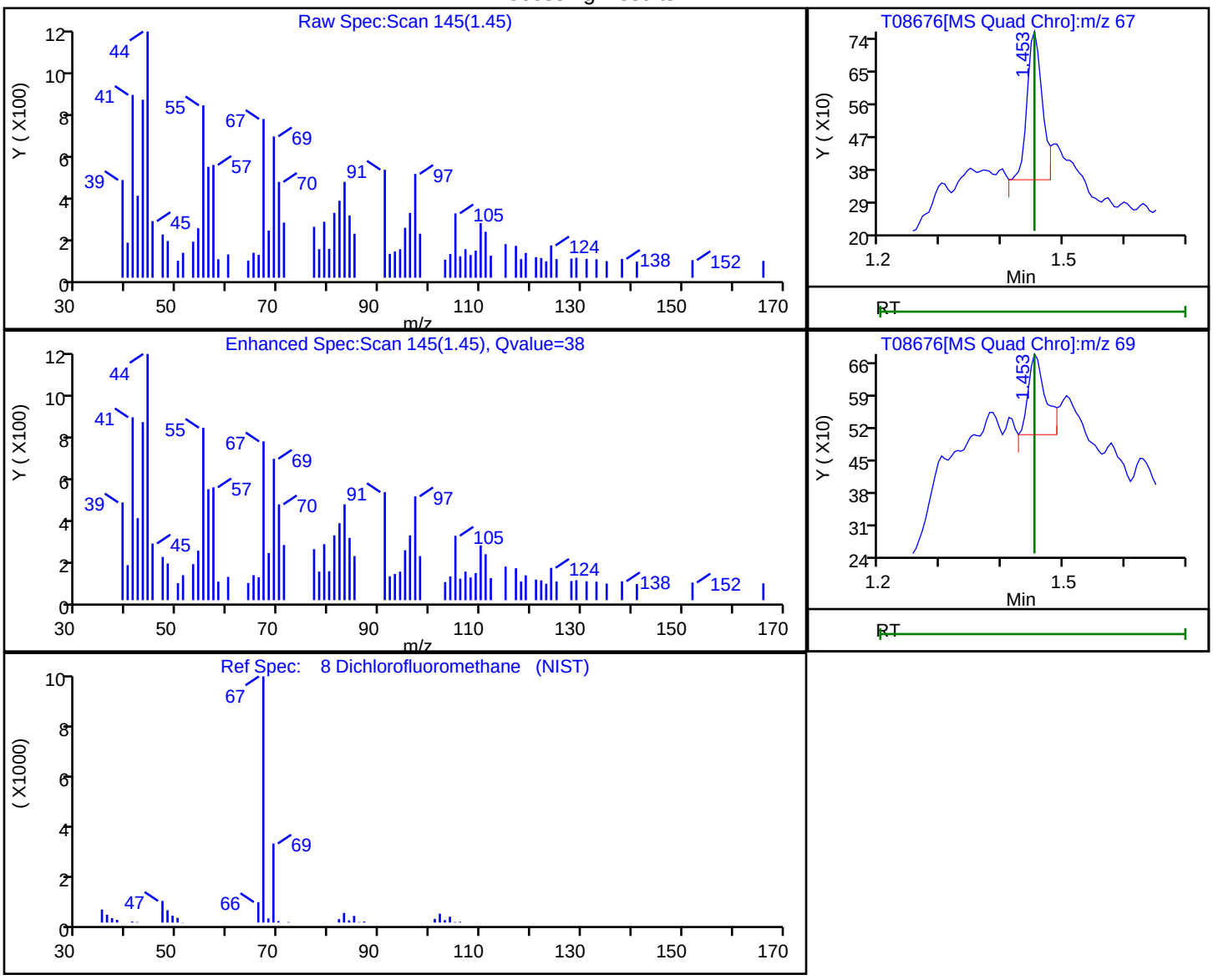
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
1.45	67.00	714	0.216416
1.45	69.00	341	

Reviewer: boykink, 20-Jun-2018 22:19:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

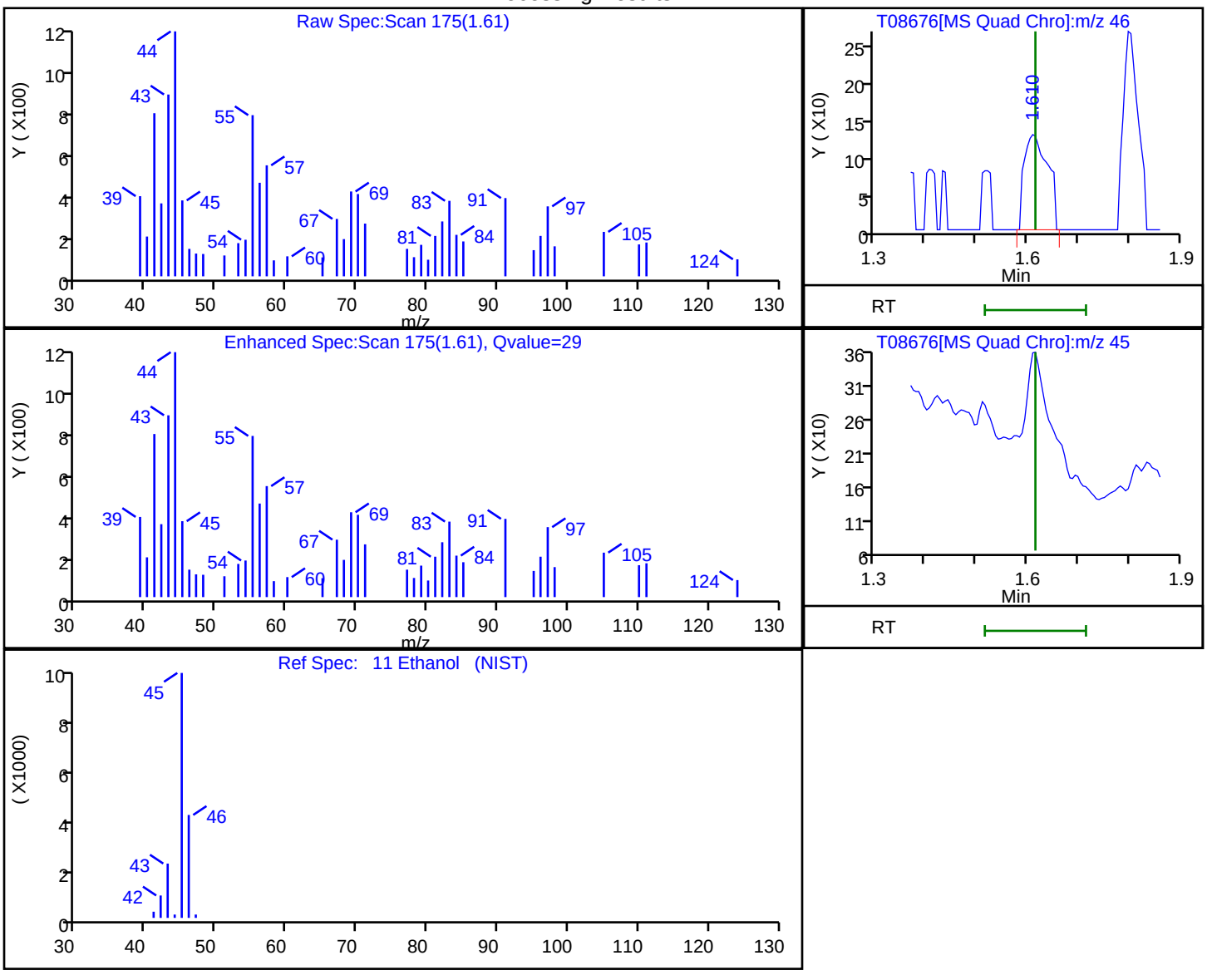
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

11 Ethanol, CAS: 64-17-5

Processing Results



RT	Mass	Response	Amount
1.61	46.00	416	12.499234
1.62	45.00	2823	

Reviewer: boykink, 20-Jun-2018 22:19:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

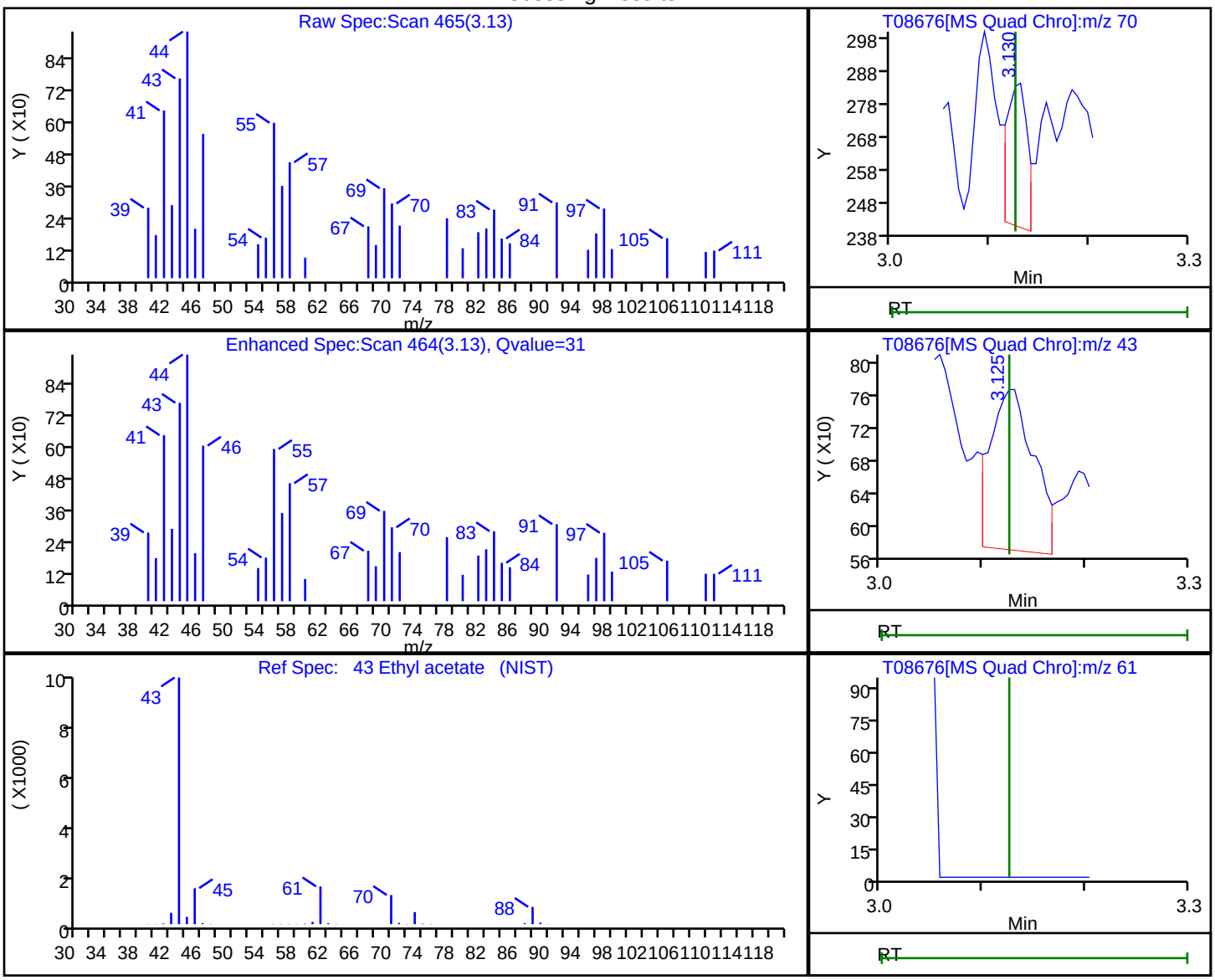
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D		
Injection Date:	20-Jun-2018 20:46:39	Instrument ID:	CVOAMS15
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

43 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
3.13	70.00	66	0.074217
3.13	43.00	585	
3.13	61.00	0	

Reviewer: boykink, 20-Jun-2018 22:19:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

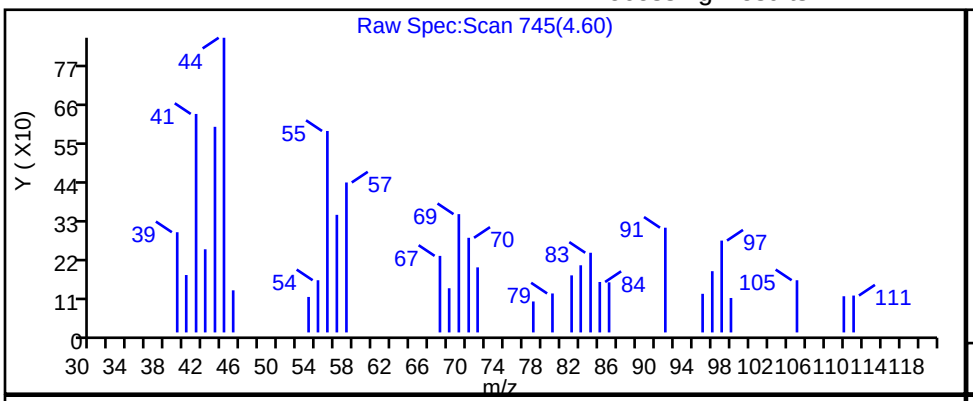
User Disabled Compound Report

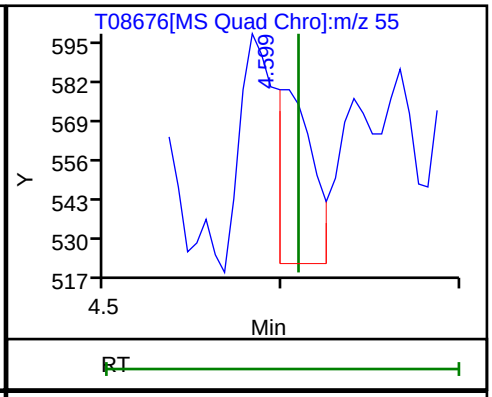
TestAmerica Edison

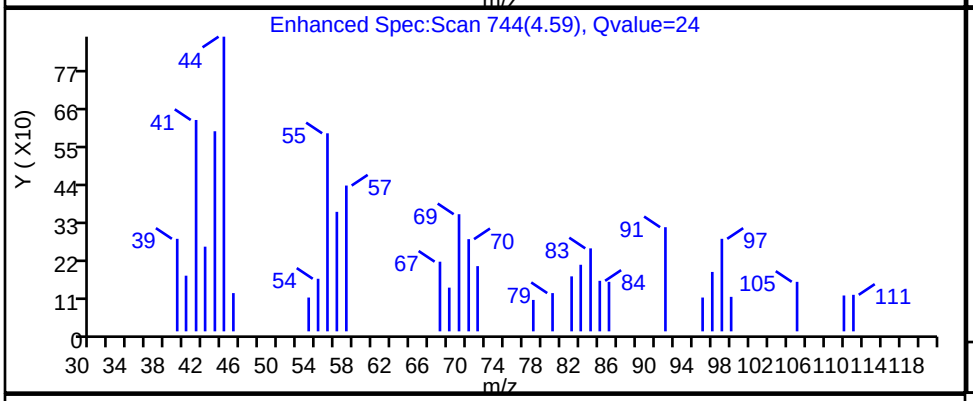
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

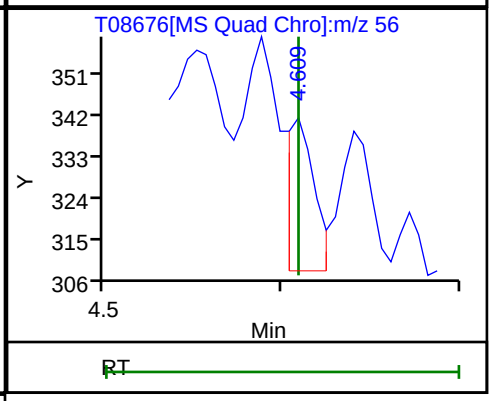
65 Ethyl acrylate, CAS: 140-88-5

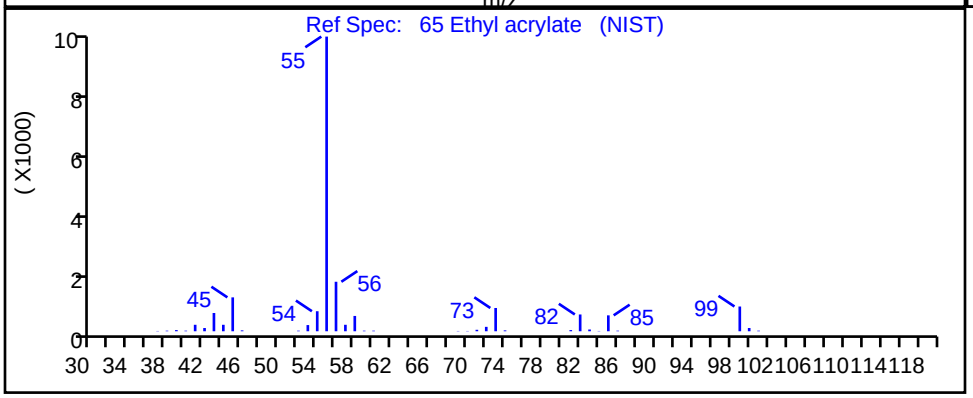
Processing Results











RT	Mass	Response	Amount
4.60	55.00	84	0.027497
4.61	56.00	37	

Reviewer: boykink, 20-Jun-2018 22:20:00
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

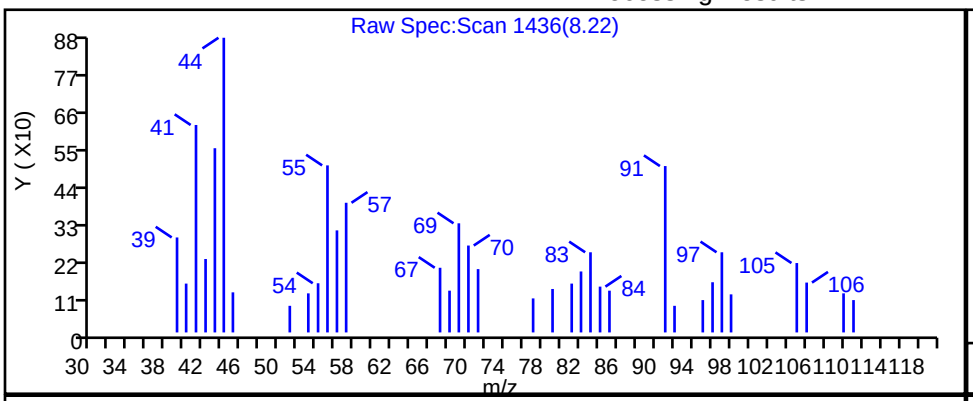
User Disabled Compound Report

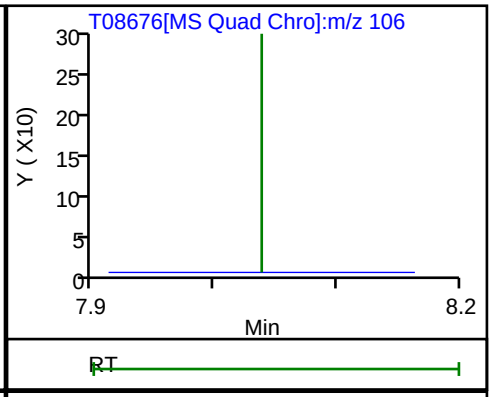
TestAmerica Edison

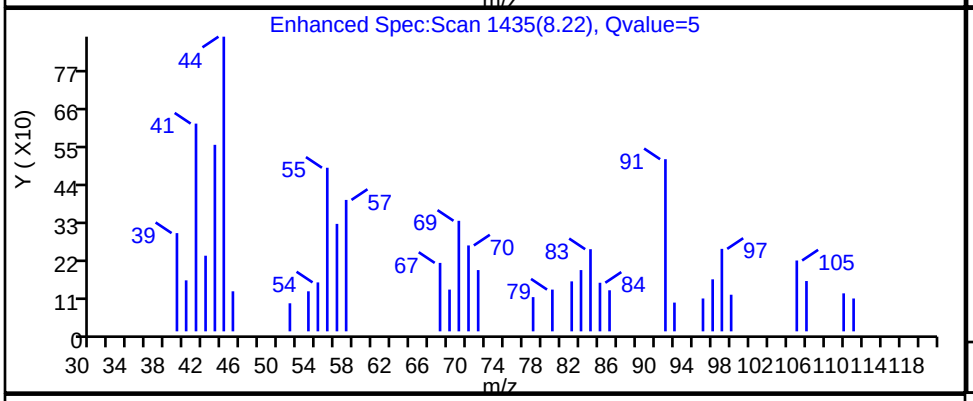
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

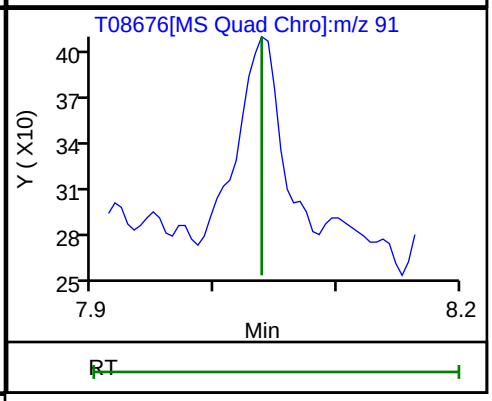
93 Ethylbenzene, CAS: 100-41-4

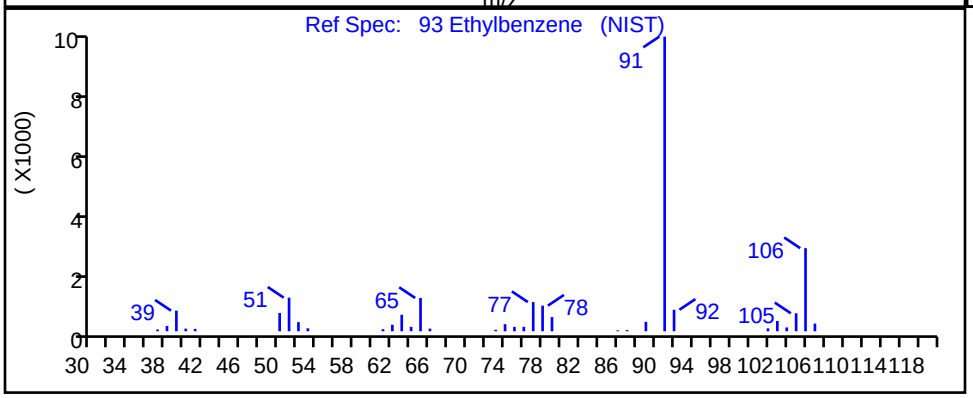
Processing Results











RT	Mass	Response	Amount
8.22	106.00	270	0.065533
8.22	91.00	510	

Reviewer: boykink, 20-Jun-2018 22:20:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

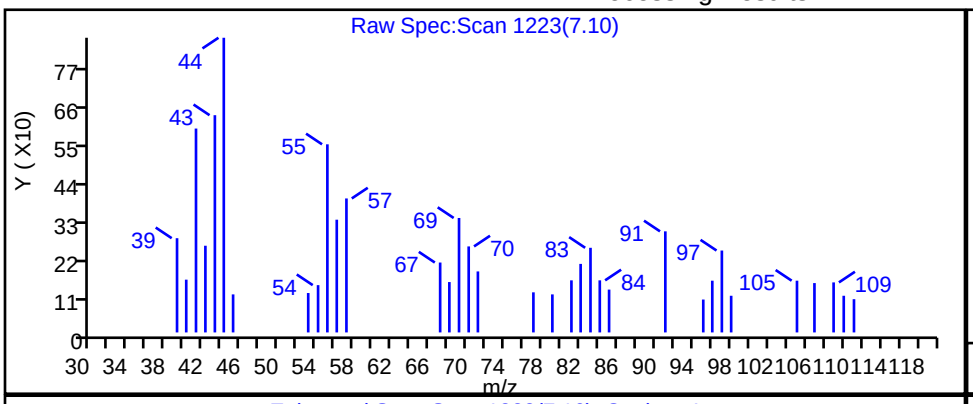
User Disabled Compound Report

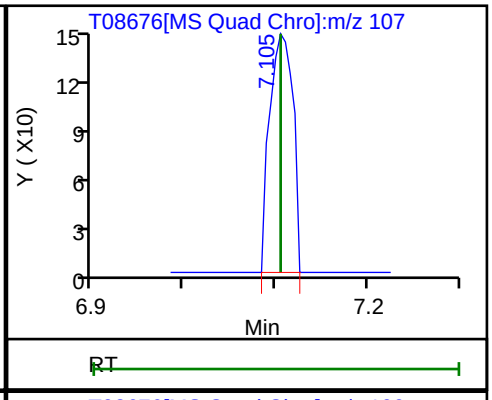
TestAmerica Edison

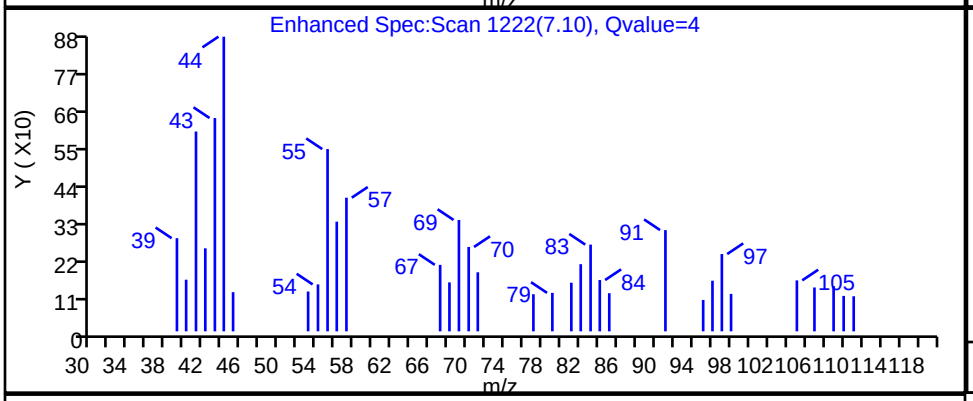
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

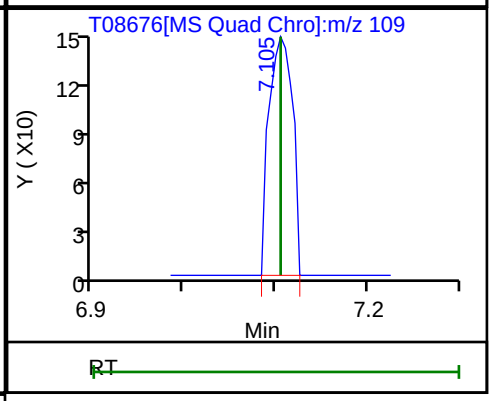
89 Ethylene Dibromide, CAS: 106-93-4

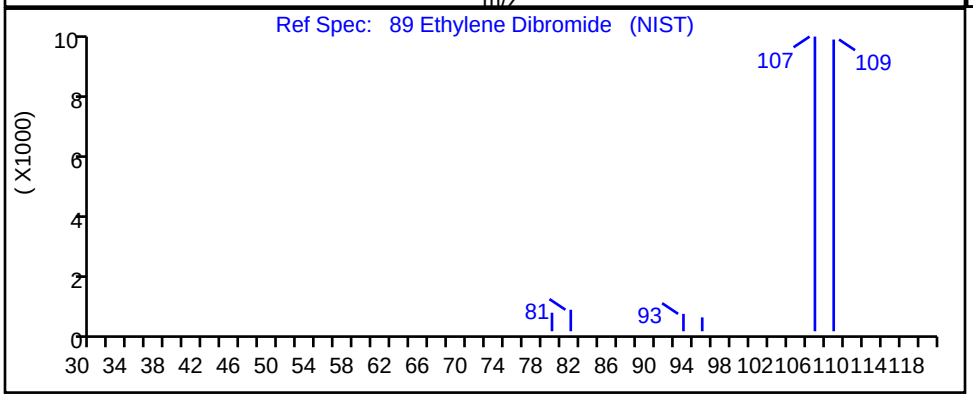
Processing Results











RT	Mass	Response	Amount
7.10	107.00	255	0.105793
7.10	109.00	261	

Reviewer: boykink, 20-Jun-2018 22:20:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

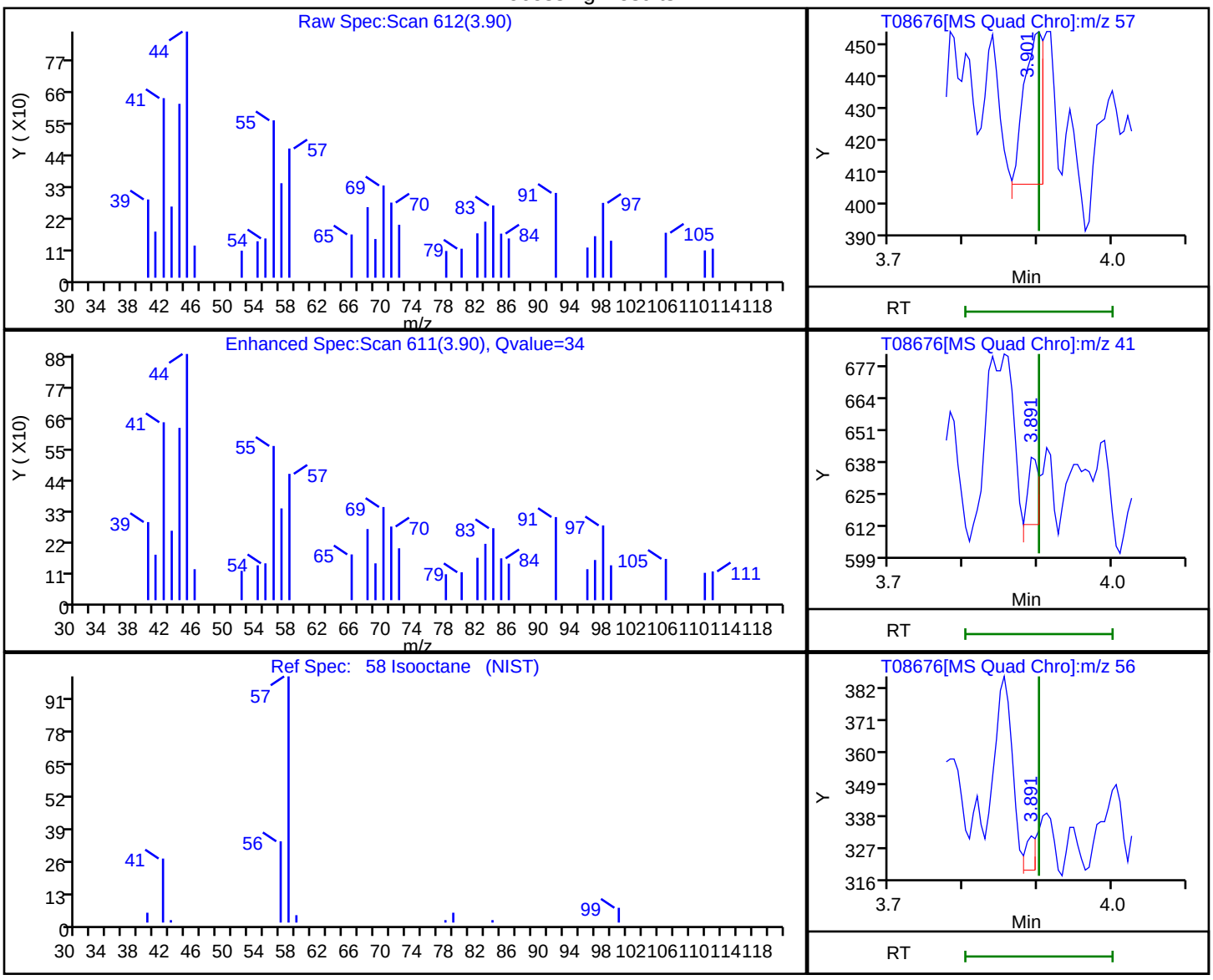
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

58 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
3.90	57.00	88	0.013752
3.89	41.00	28	
3.89	56.00	12	

Reviewer: boykink, 20-Jun-2018 22:20:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

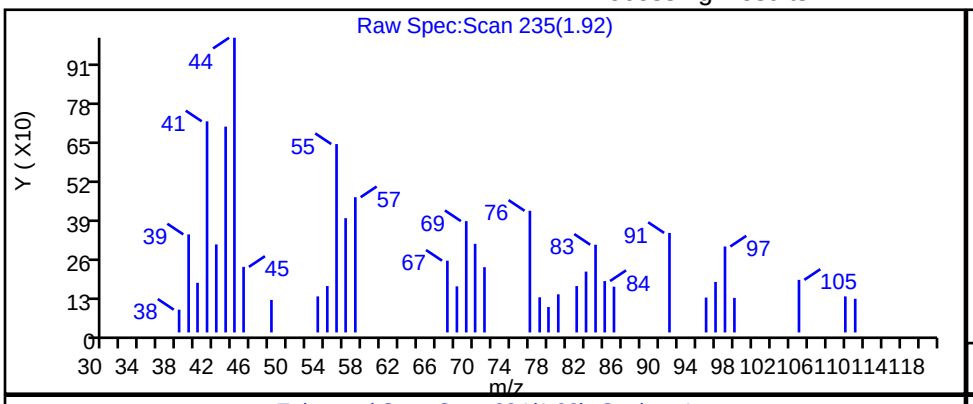
User Disabled Compound Report

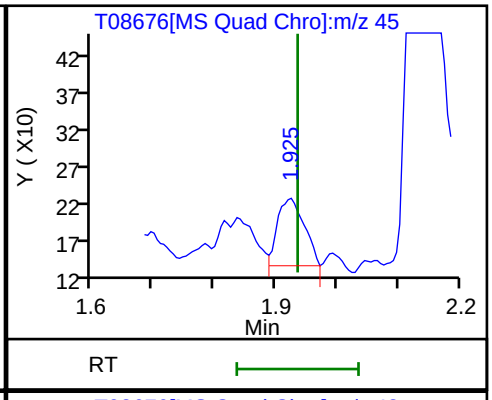
TestAmerica Edison

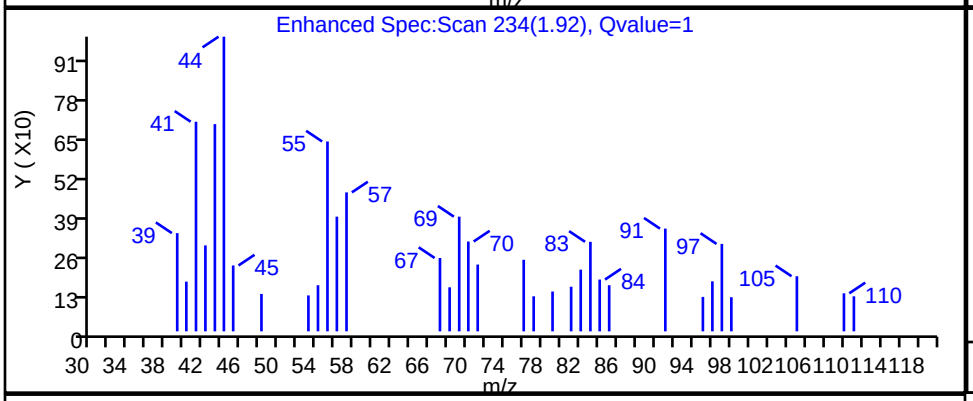
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

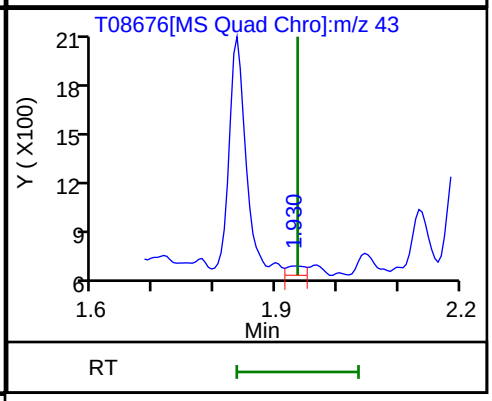
20 Isopropyl alcohol, CAS: 67-63-0

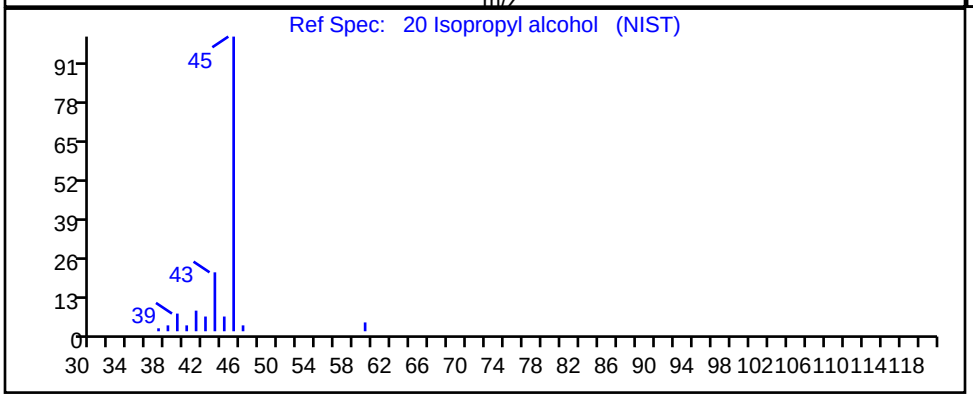
Processing Results











RT	Mass	Response	Amount
1.92	45.00	278	1.492414
1.93	43.00	121	

Reviewer: boykink, 20-Jun-2018 22:19:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

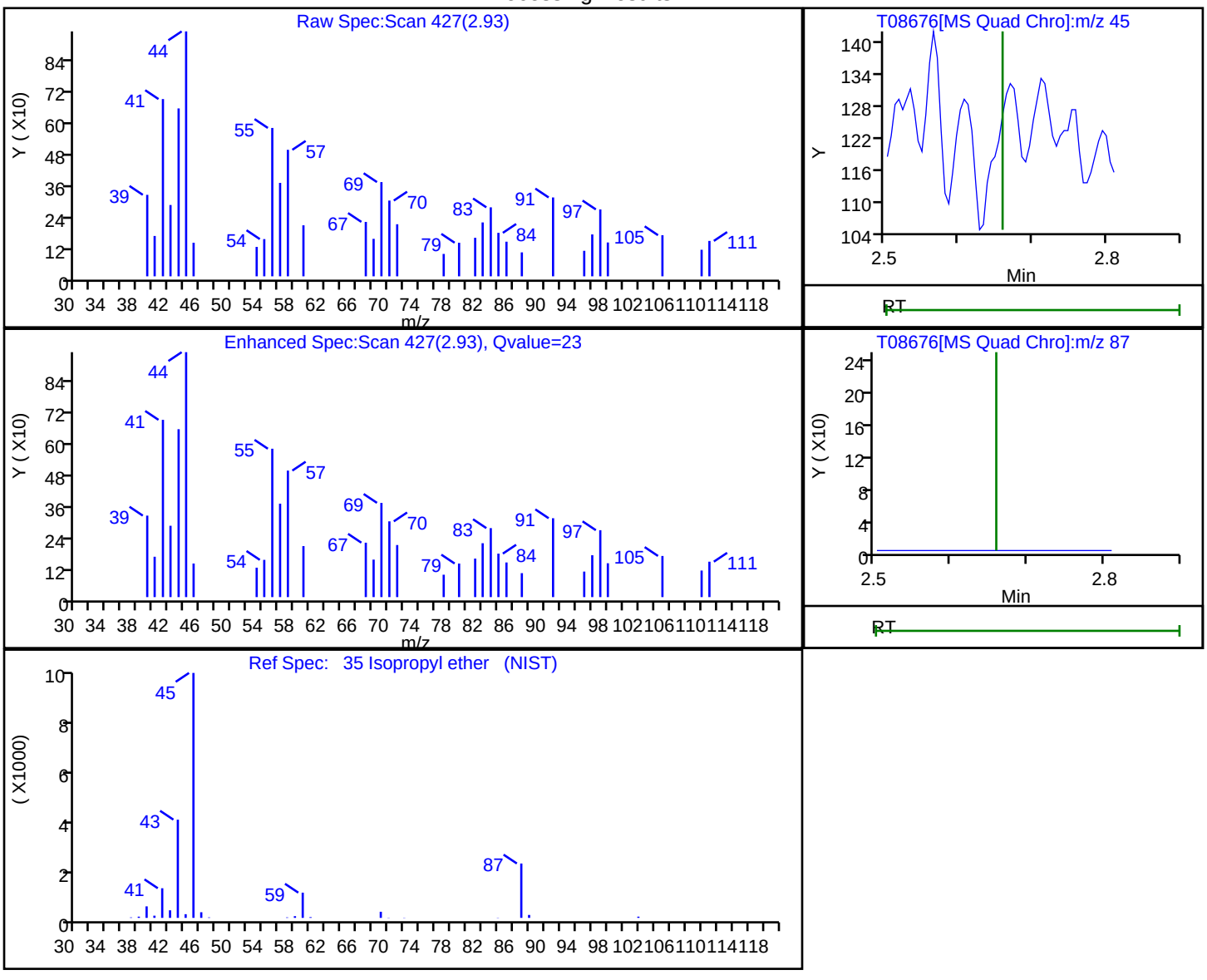
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

35 Isopropyl ether, CAS: 108-20-3

Processing Results



RT	Mass	Response	Amount
2.93	45.00	51	0.006652
2.94	87.00	136	

Reviewer: boykink, 20-Jun-2018 22:19:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

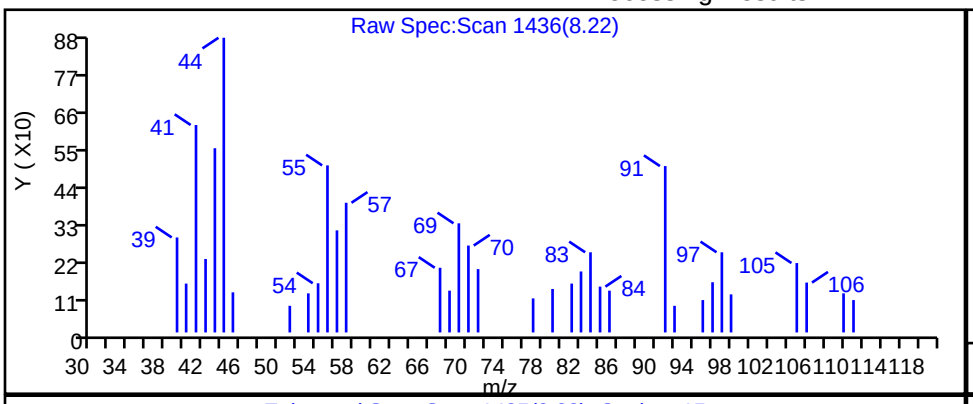
User Disabled Compound Report

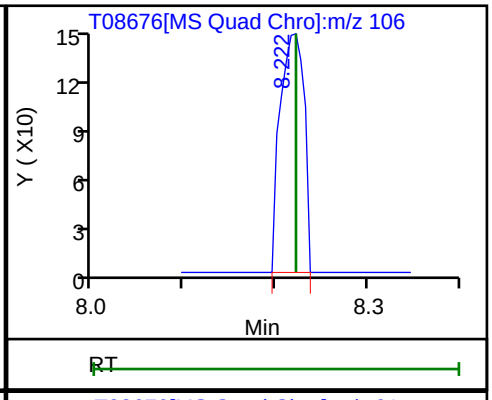
TestAmerica Edison

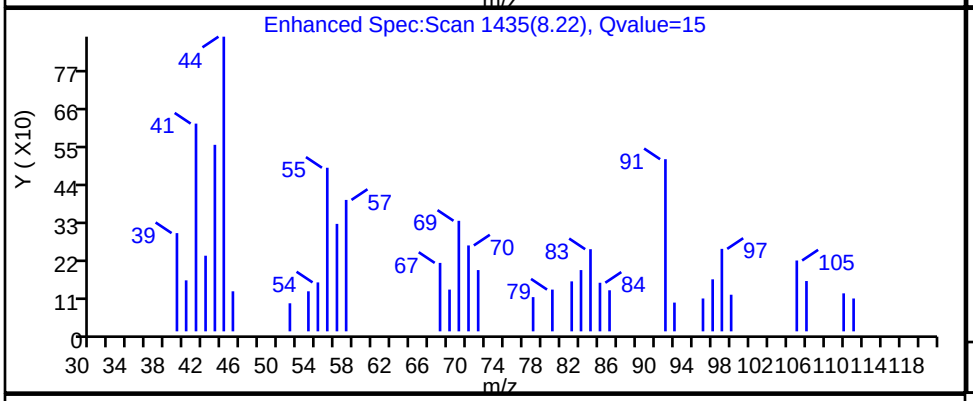
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

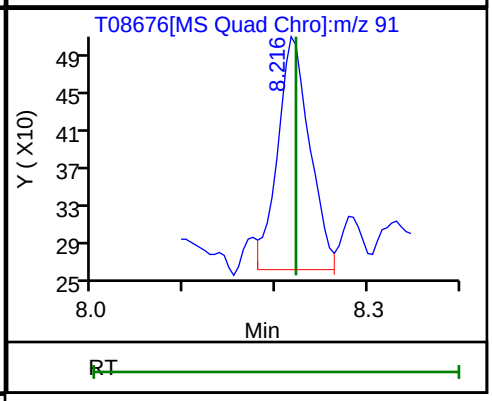
94 m-Xylene & p-Xylene, CAS: 179601-23-1

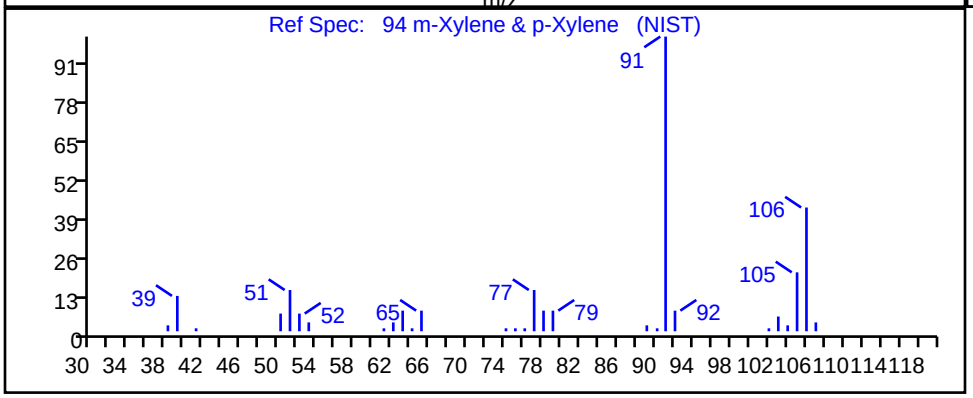
Processing Results











RT	Mass	Response	Amount
8.22	106.00	270	0.053429
8.22	91.00	601	

Reviewer: boykink, 20-Jun-2018 22:20:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

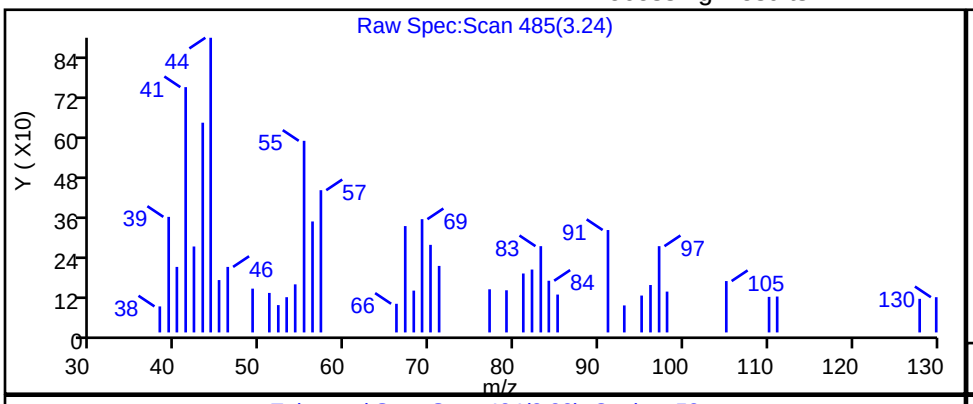
User Disabled Compound Report

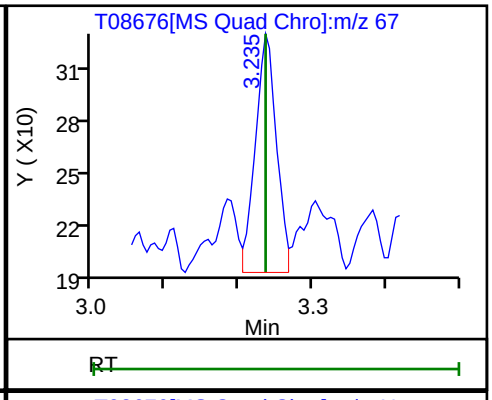
TestAmerica Edison

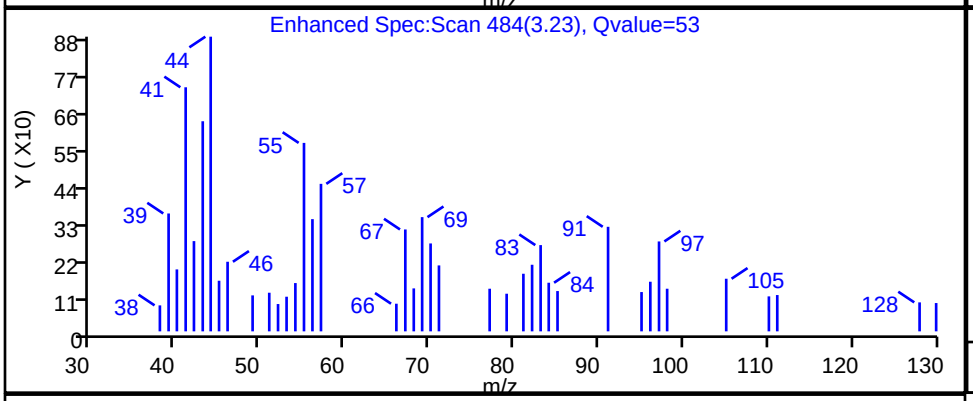
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

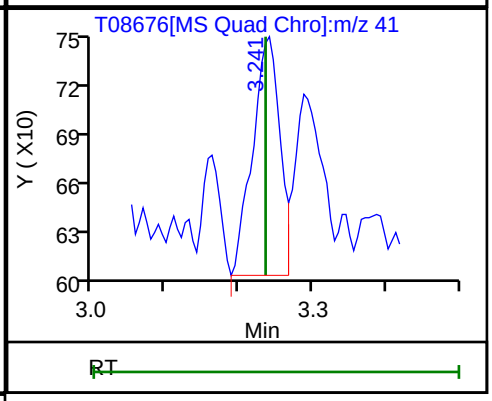
45 Methacrylonitrile, CAS: 126-98-7

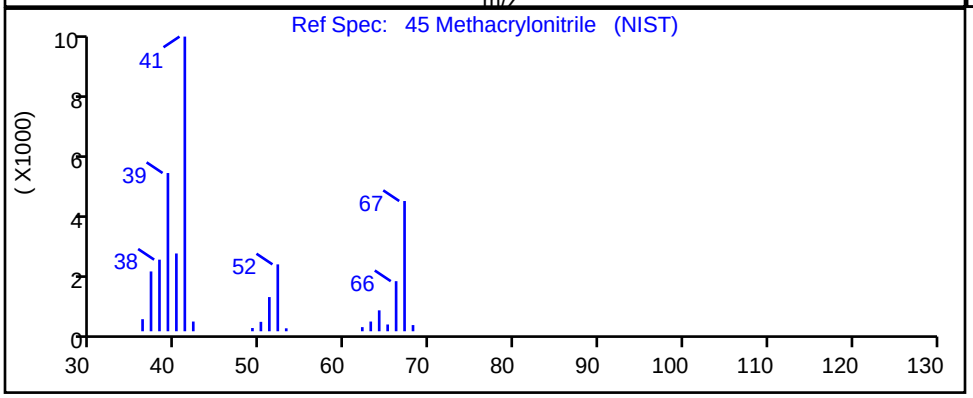
Processing Results











RT	Mass	Response	Amount
3.24	67.00	262	0.245014
3.24	41.00	379	

Reviewer: boykink, 20-Jun-2018 22:19:51
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

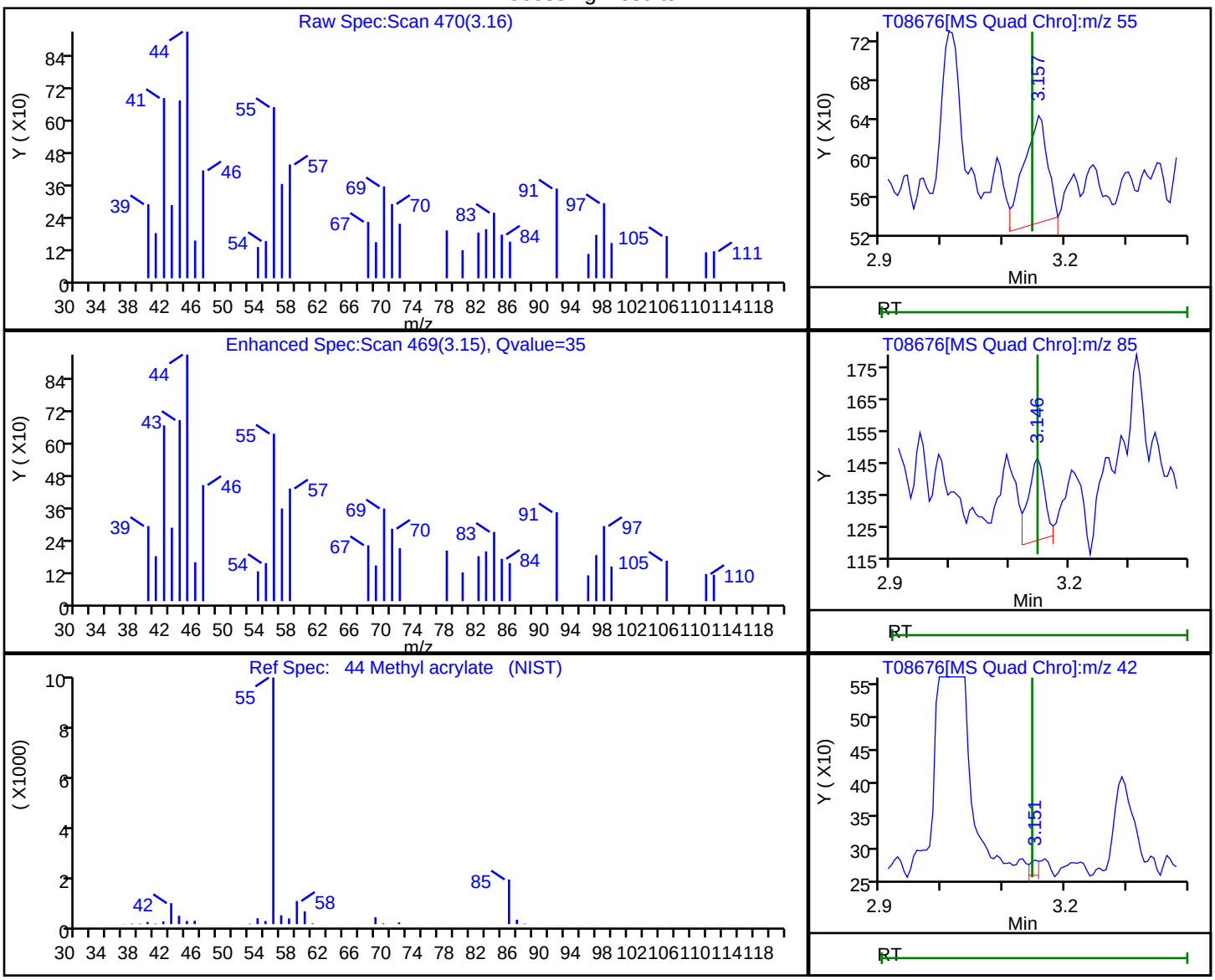
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

44 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
3.16	55.00	283	0.111321
3.15	85.00	51	
3.15	42.00	25	

Reviewer: boykink, 20-Jun-2018 22:19:49
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

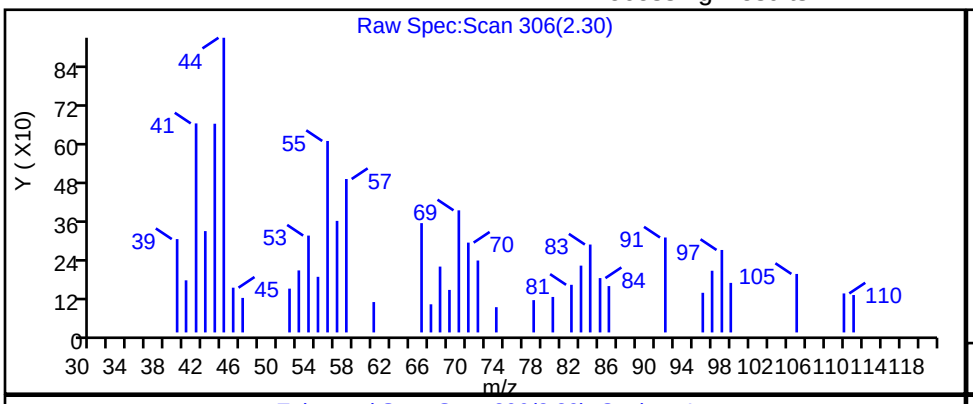
User Disabled Compound Report

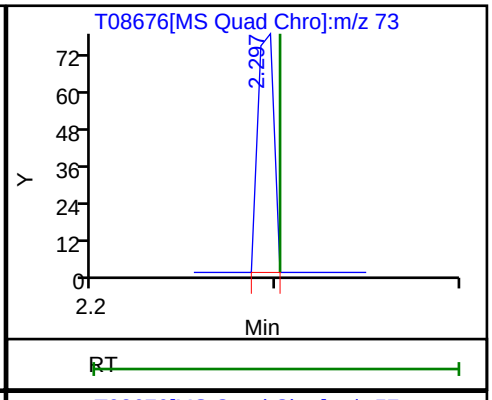
TestAmerica Edison

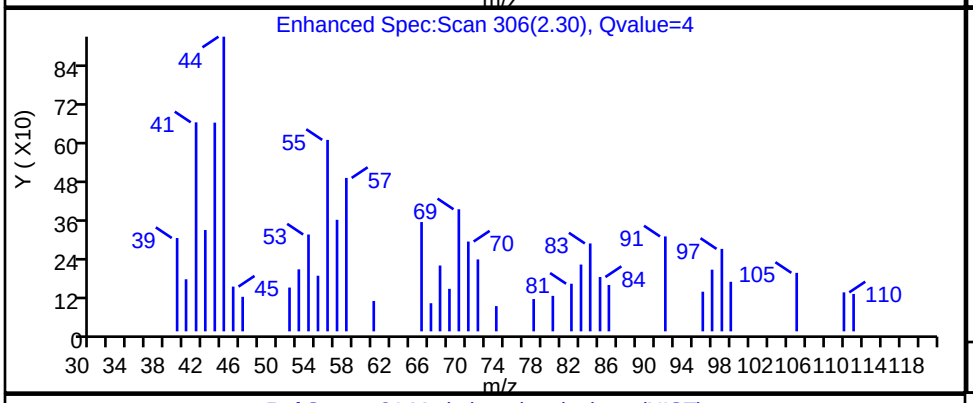
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

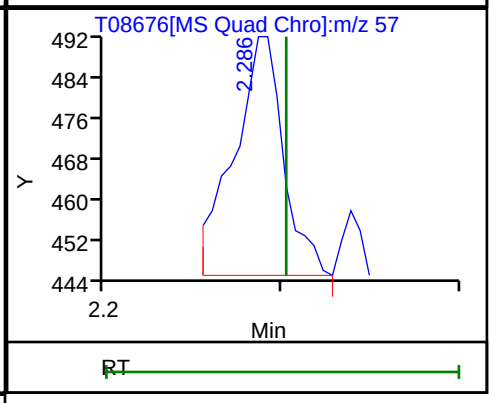
31 Methyl tert-butyl ether, CAS: 1634-04-4

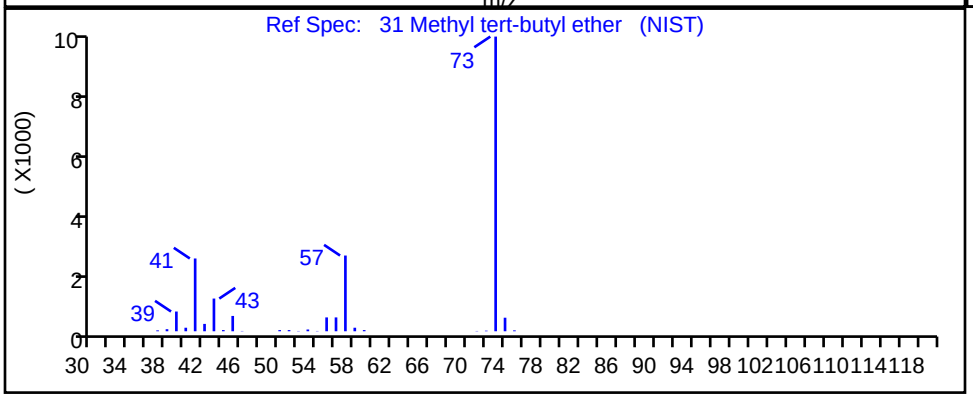
Processing Results











RT	Mass	Response	Amount
2.30	73.00	48	0.006681
2.29	57.00	95	

Reviewer: boykink, 20-Jun-2018 22:19:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

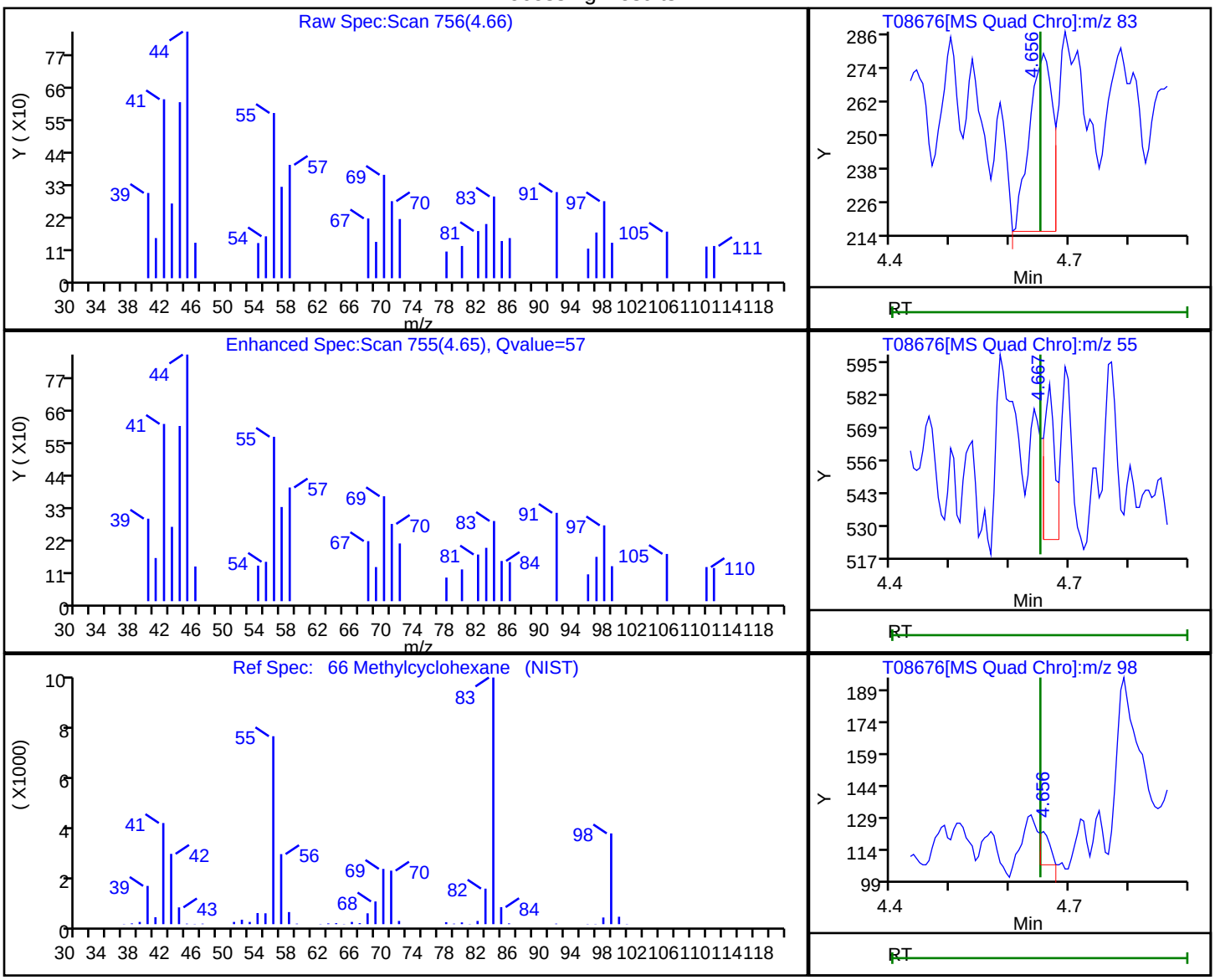
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

66 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
4.66	83.00	177	0.045121
4.67	55.00	79	
4.66	98.00	19	

Reviewer: boykink, 20-Jun-2018 22:20:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

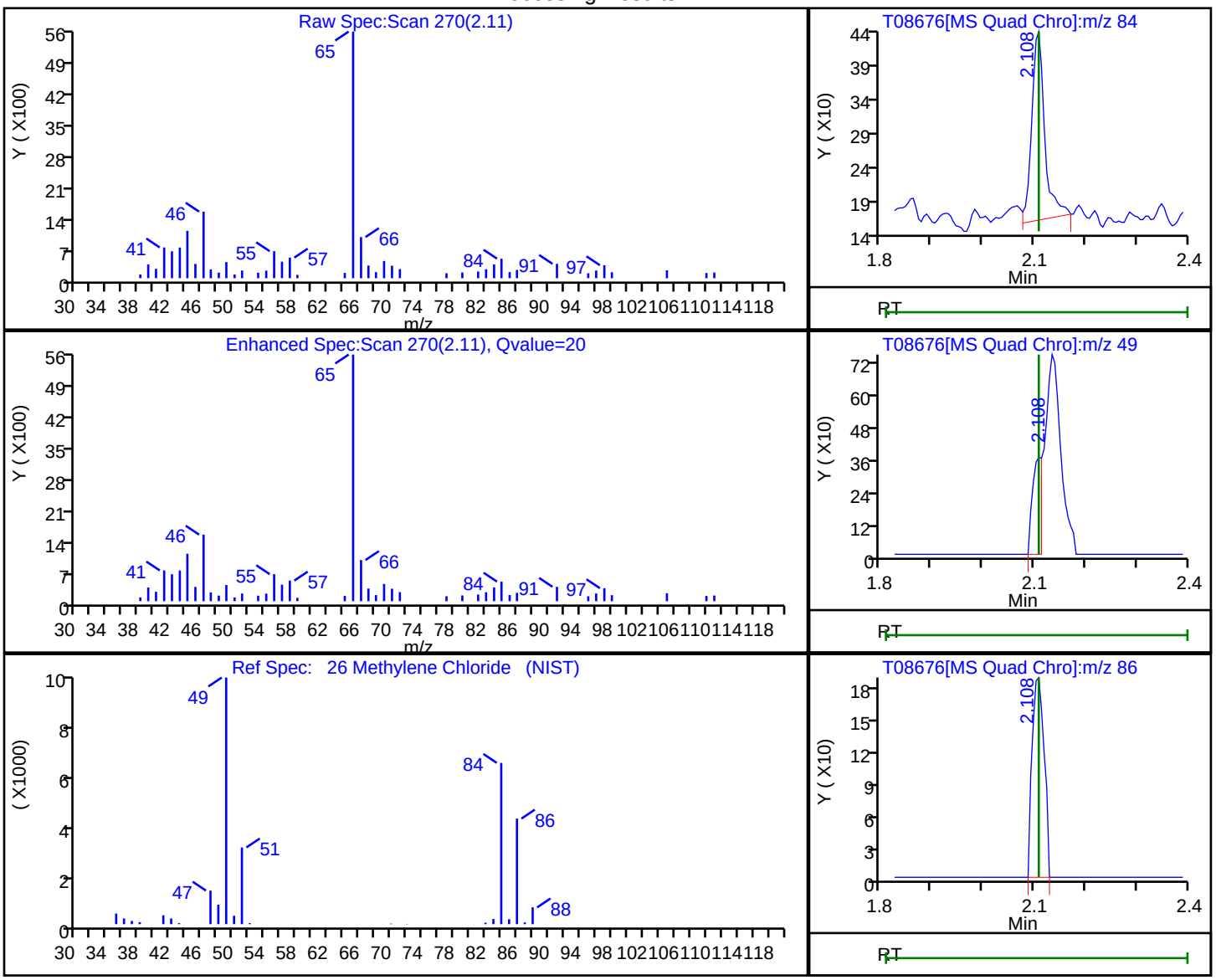
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

26 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
2.11	84.00	484	0.180001
2.11	49.00	472	
2.11	86.00	304	

Reviewer: boykink, 20-Jun-2018 22:19:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

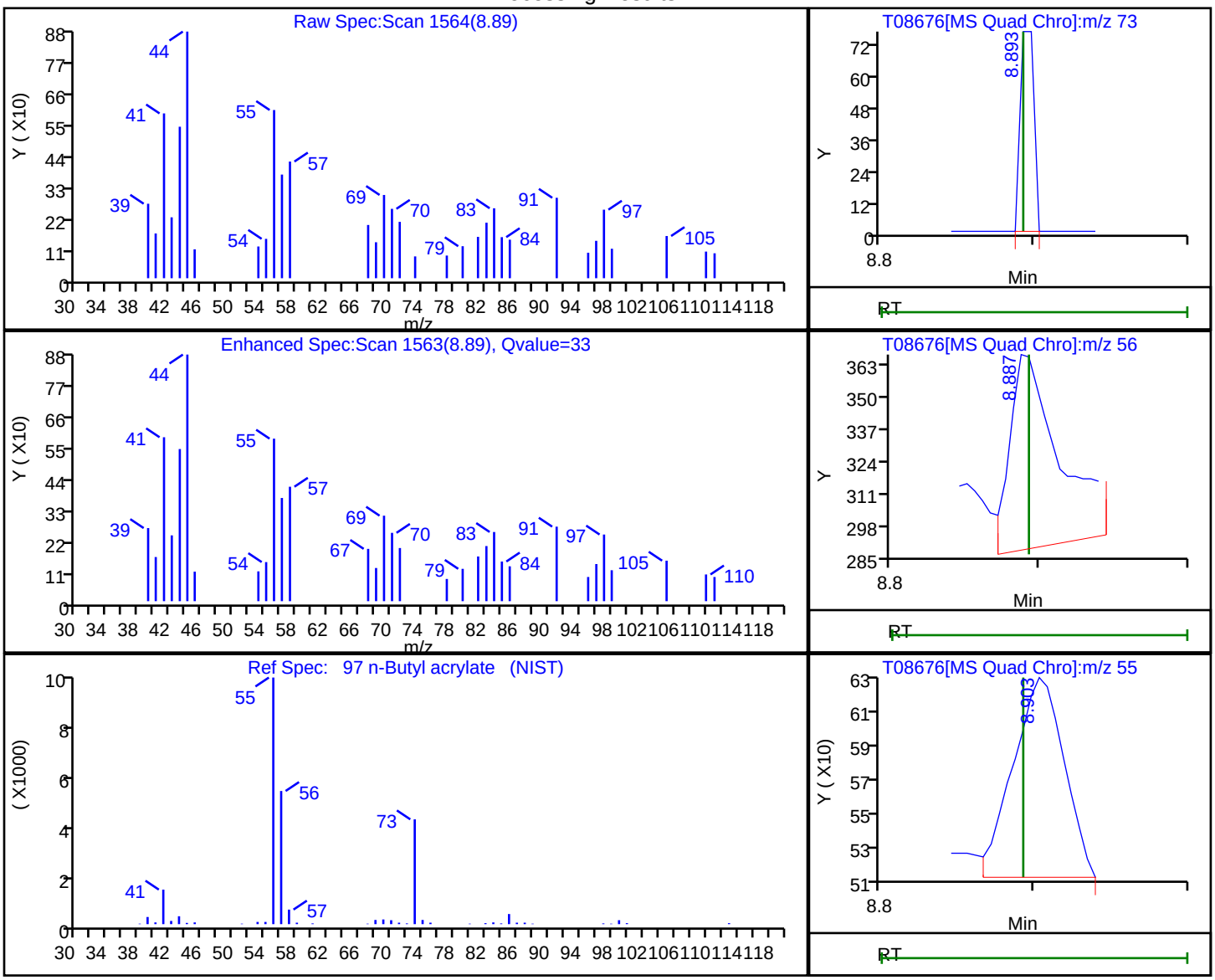
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

97 n-Butyl acrylate, CAS: 141-32-2

Processing Results



RT	Mass	Response	Amount
8.89	73.00	48	0.025276
8.89	56.00	189	
8.90	55.00	252	

Reviewer: boykink, 20-Jun-2018 22:20:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

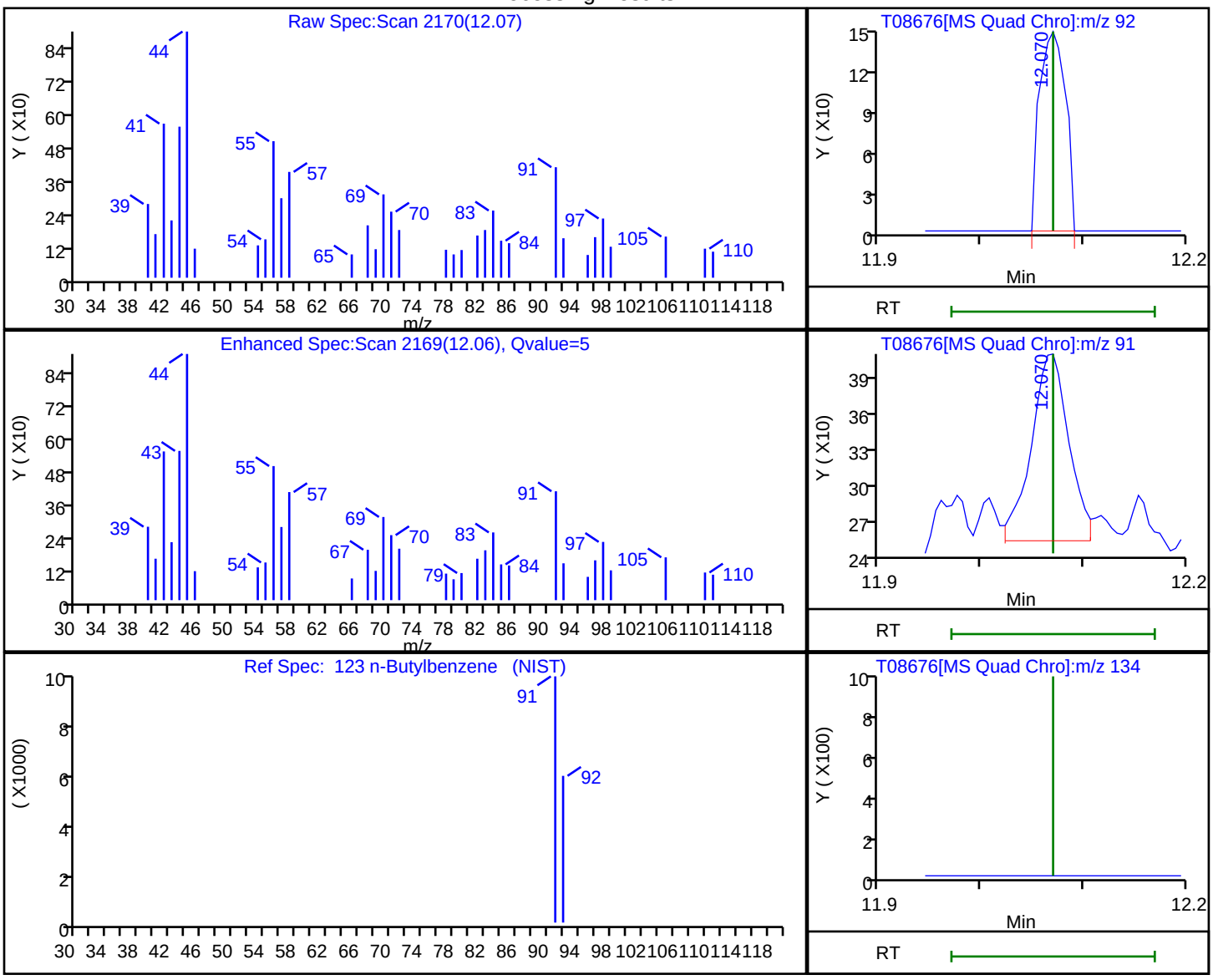
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

123 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
12.07	92.00	254	0.049090
12.07	91.00	380	
12.07	134.00	0	

Reviewer: boykink, 20-Jun-2018 22:20:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

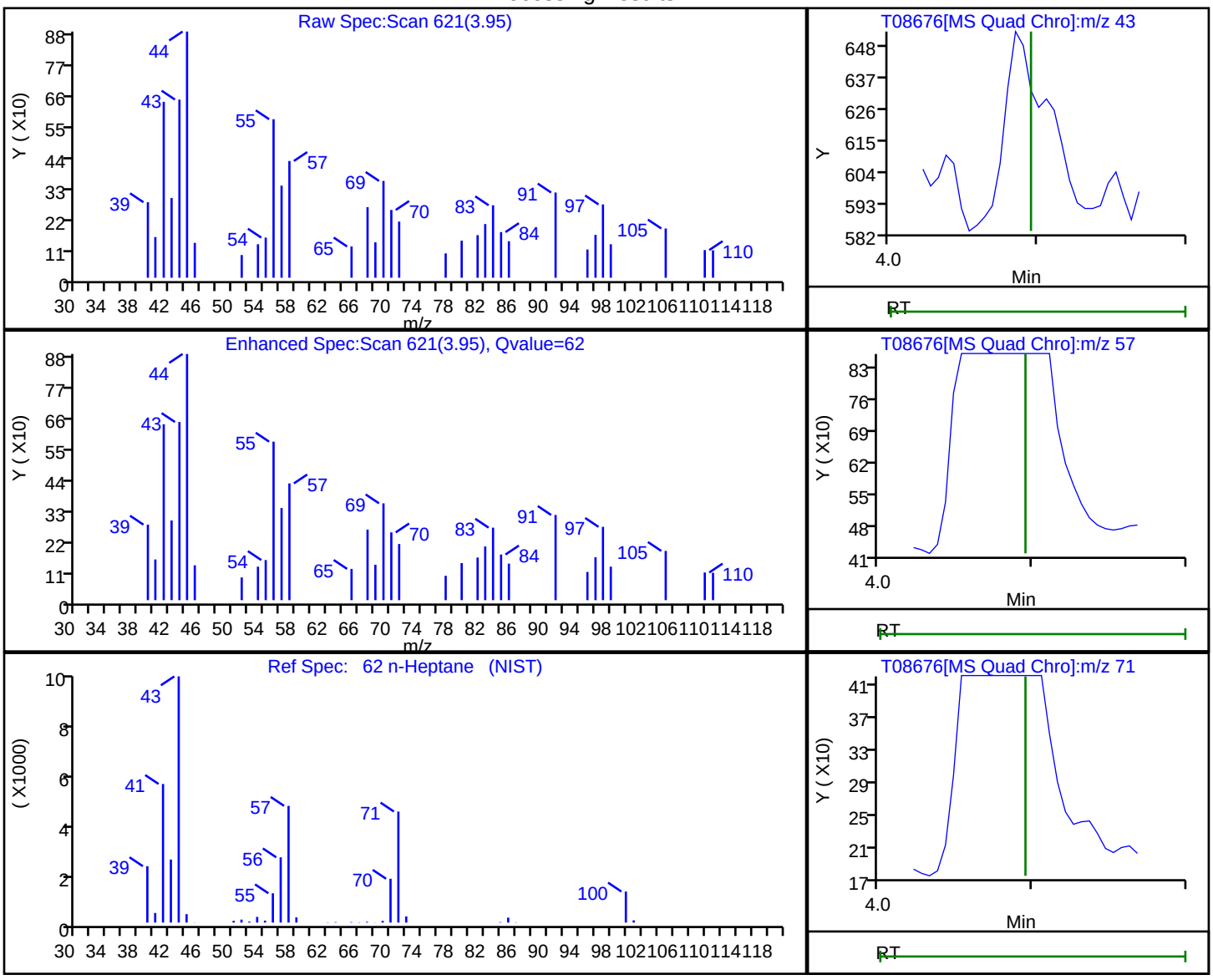
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
3.95	43.00	151	0.049271
3.94	57.00	106	
3.94	71.00	38	

Reviewer: boykink, 20-Jun-2018 22:19:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

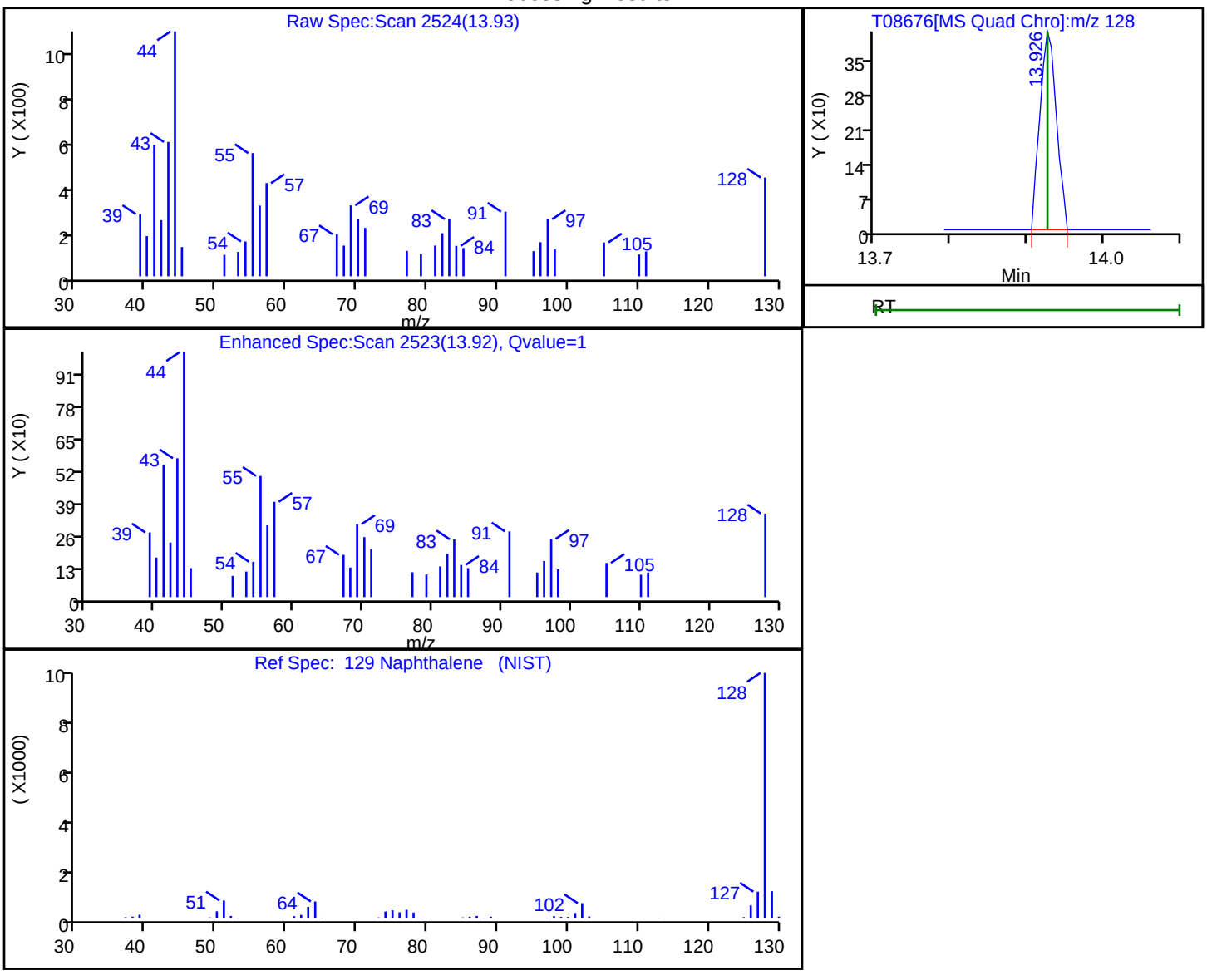
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

129 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
13.93	128.00	616	0.076326

Reviewer: boykink, 20-Jun-2018 22:20:38
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

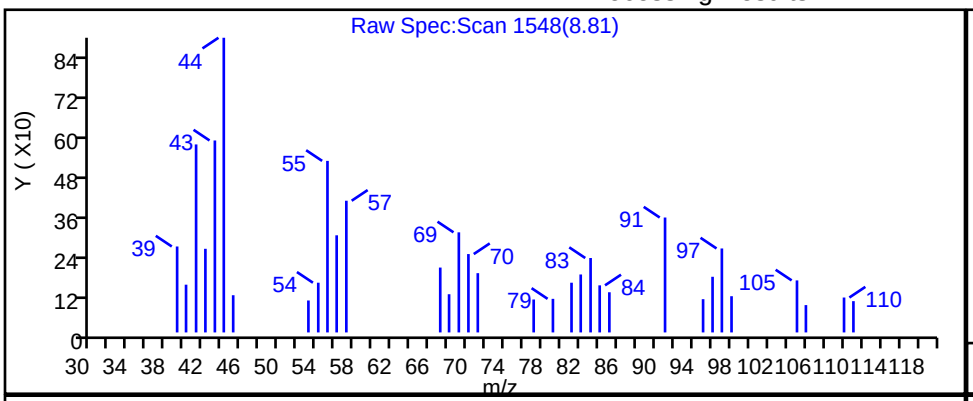
User Disabled Compound Report

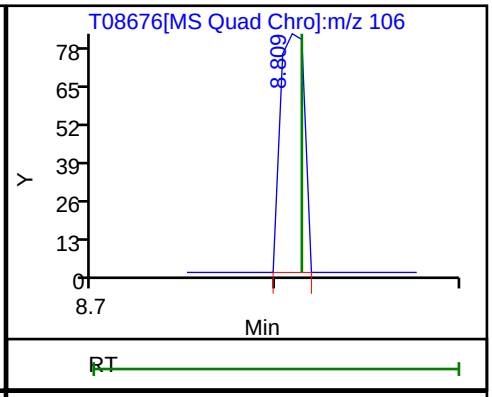
TestAmerica Edison

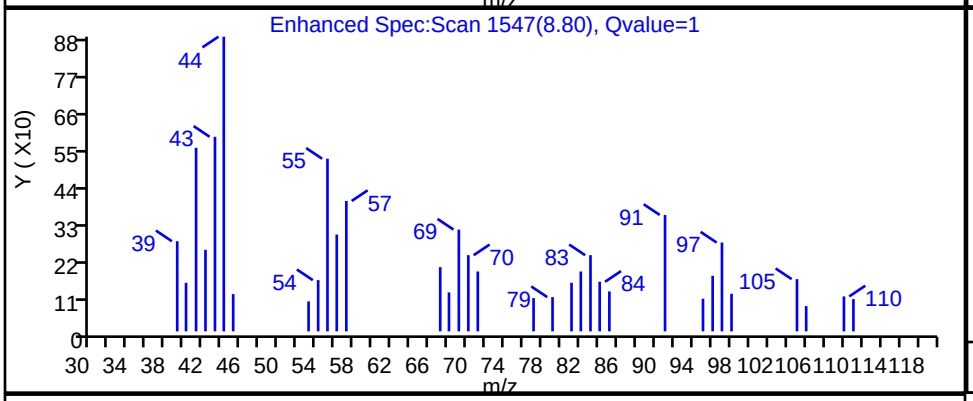
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

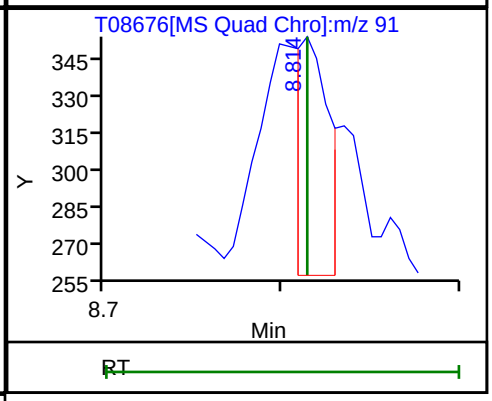
95 o-Xylene, CAS: 95-47-6

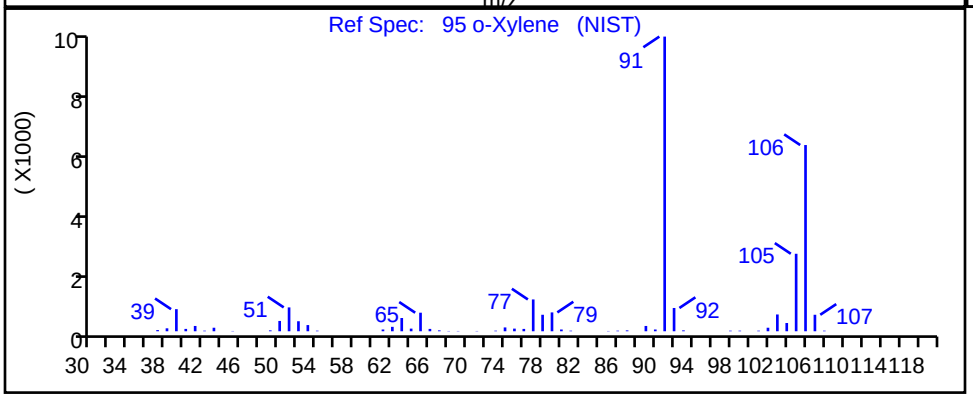
Processing Results











RT	Mass	Response	Amount
8.81	106.00	76	0.015596
8.81	91.00	131	

Reviewer: boykink, 20-Jun-2018 22:20:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

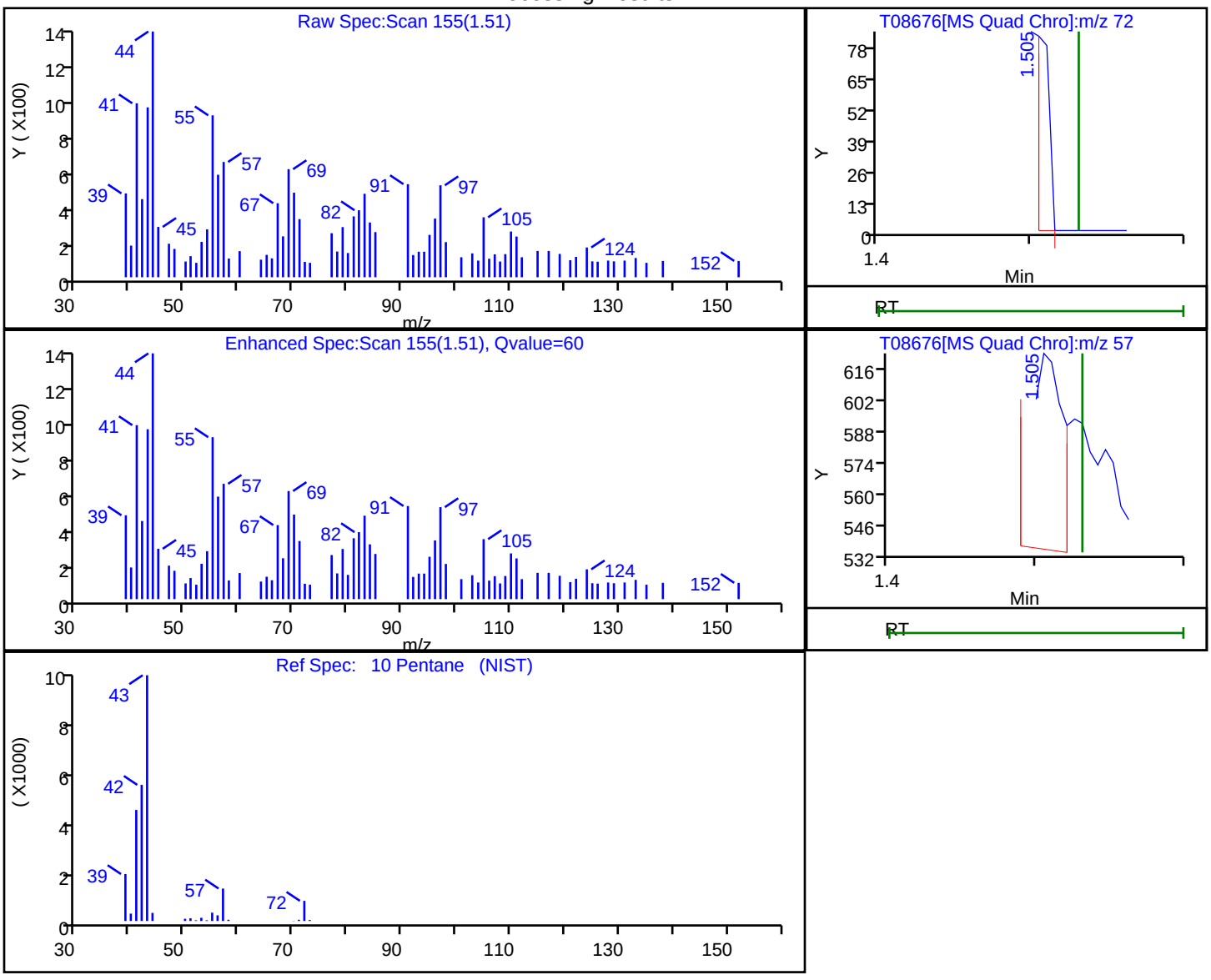
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

10 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
1.51	72.00	51	0.106222
1.51	57.00	142	

Reviewer: boykink, 20-Jun-2018 22:19:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

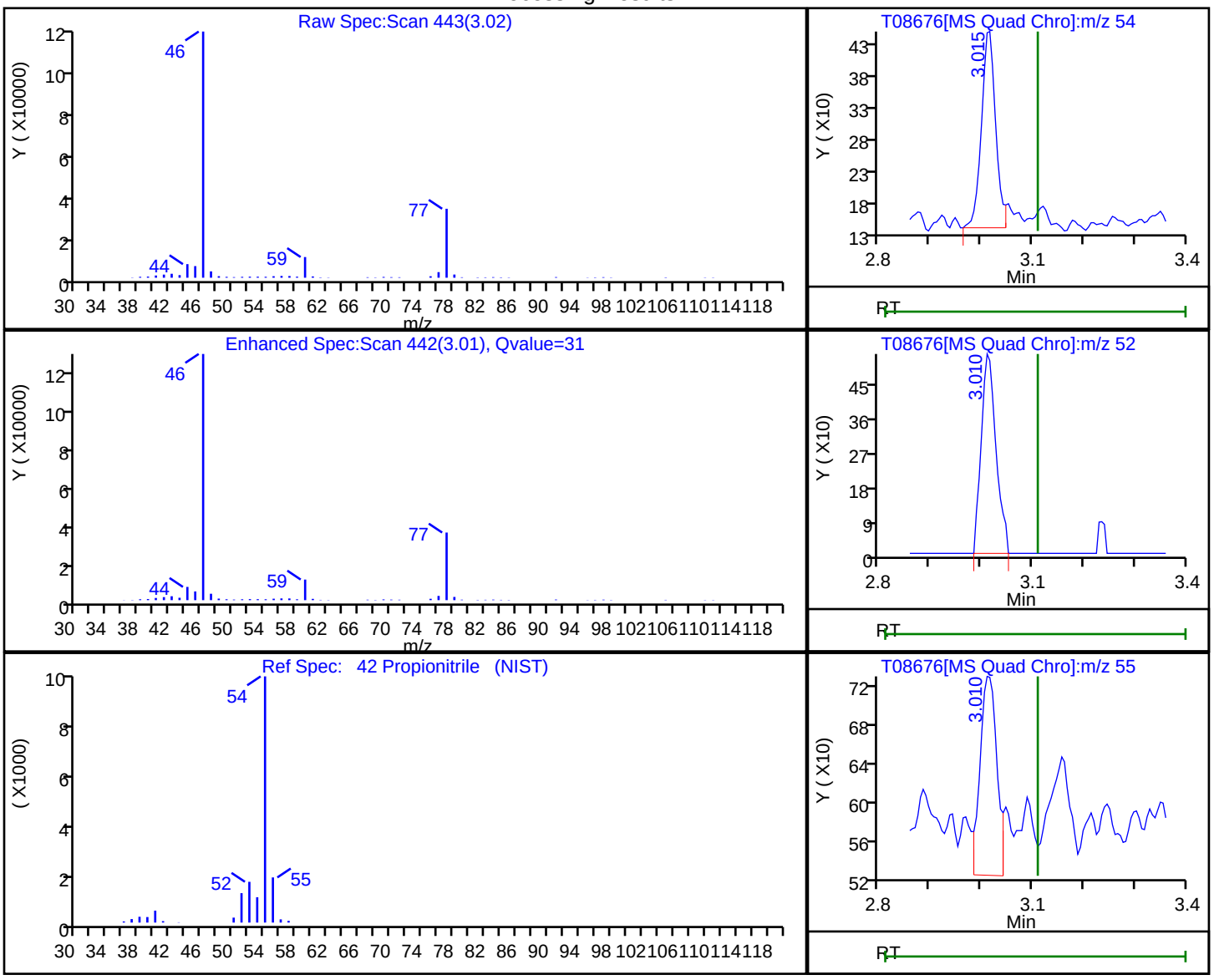
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

42 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.02	54.00	604	1.733141
3.01	52.00	1057	
3.01	55.00	472	

Reviewer: boykink, 20-Jun-2018 22:19:47
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

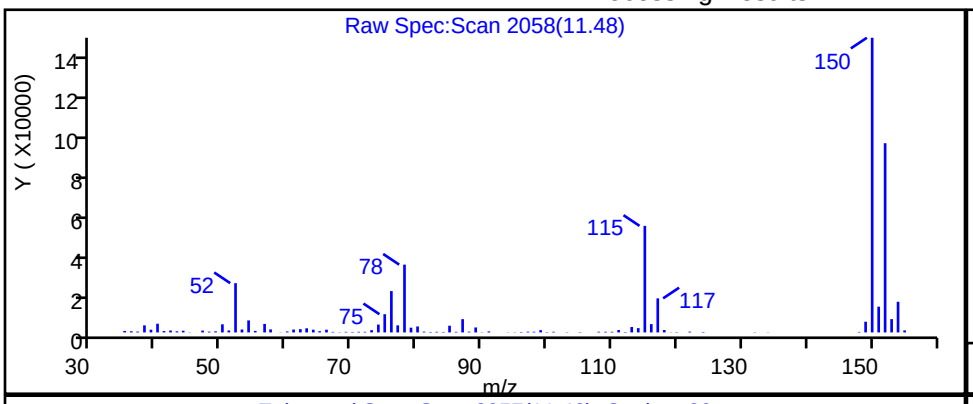
User Disabled Compound Report

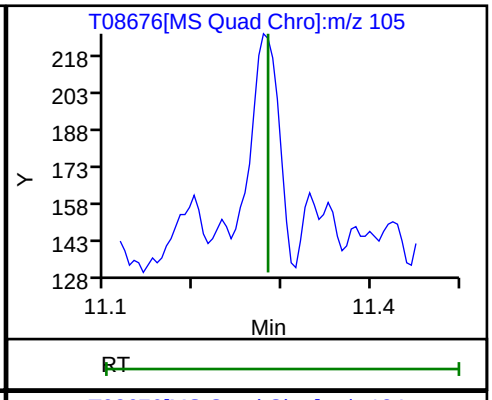
TestAmerica Edison

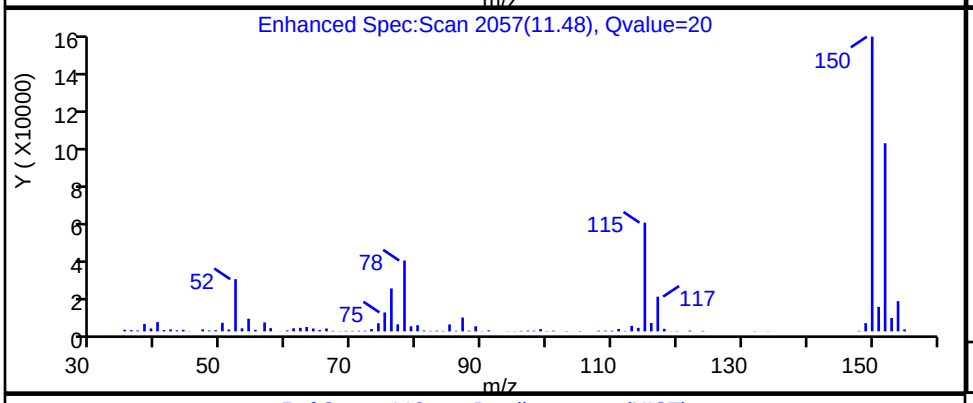
Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D		
Injection Date:	20-Jun-2018 20:46:39	Instrument ID:	CVOAMS15
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

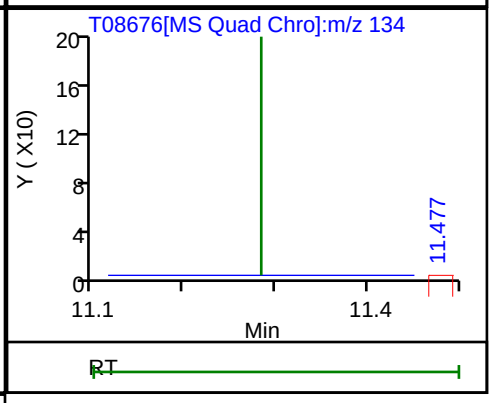
113 sec-Butylbenzene, CAS: 135-98-8

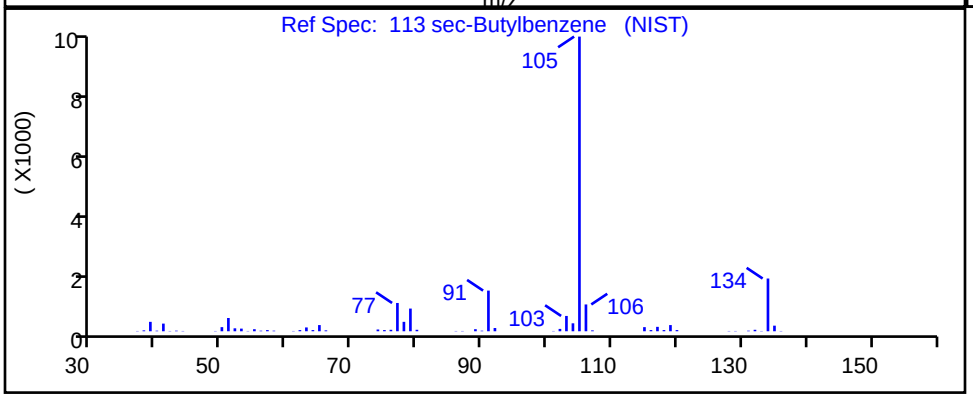
Processing Results











RT	Mass	Response	Amount
11.48	105.00	109	0.008885
11.48	134.00	113	

Reviewer: boykink, 20-Jun-2018 22:20:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

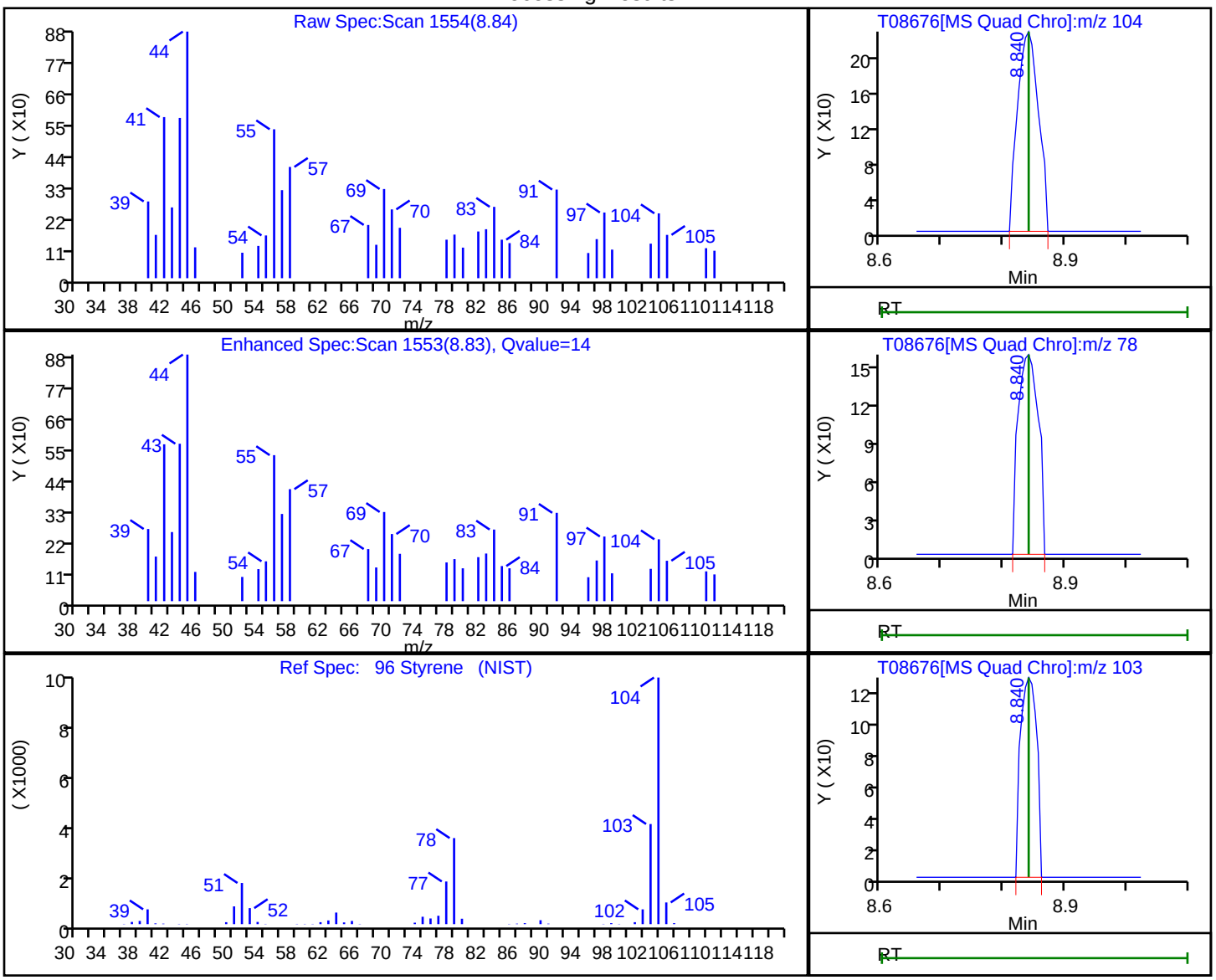
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

96 Styrene, CAS: 100-42-5

Processing Results



RT	Mass	Response	Amount
8.84	104.00	542	0.066786
8.84	78.00	351	
8.84	103.00	224	

Reviewer: boykink, 20-Jun-2018 22:20:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

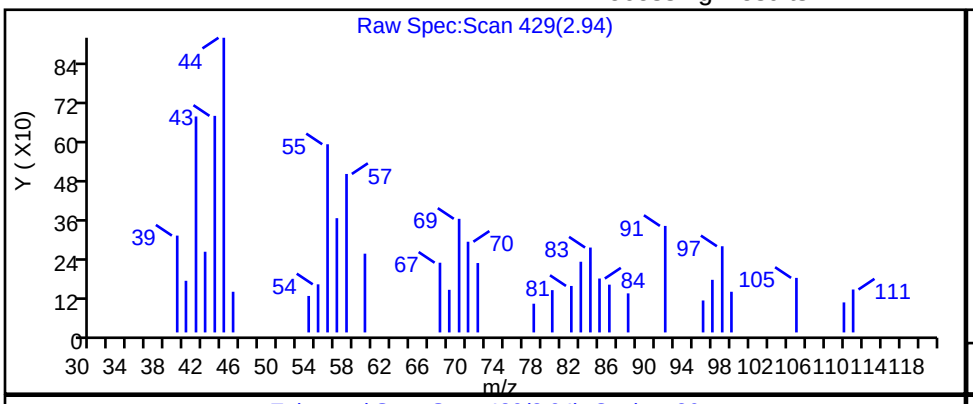
User Disabled Compound Report

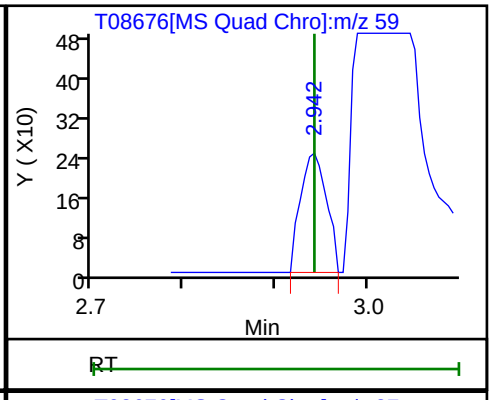
TestAmerica Edison

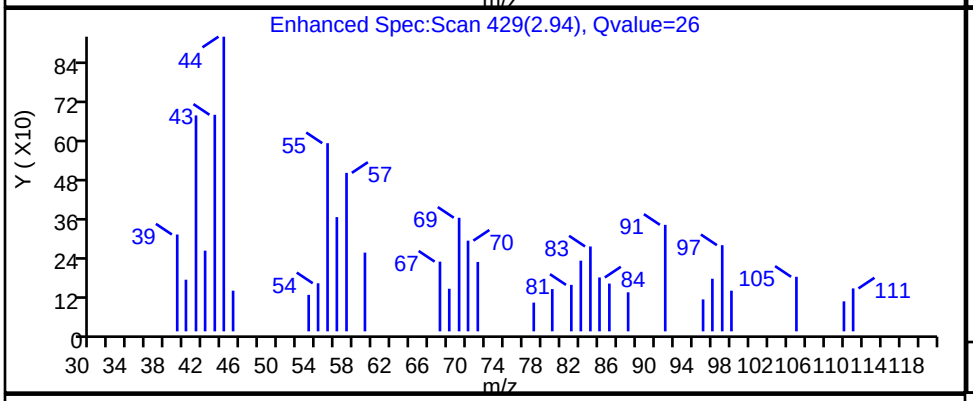
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

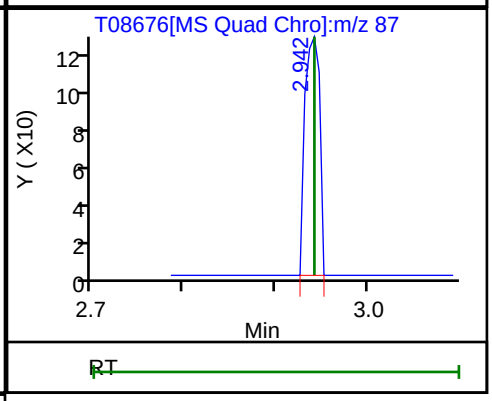
37 Tert-butyl ethyl ether, CAS: 637-92-3

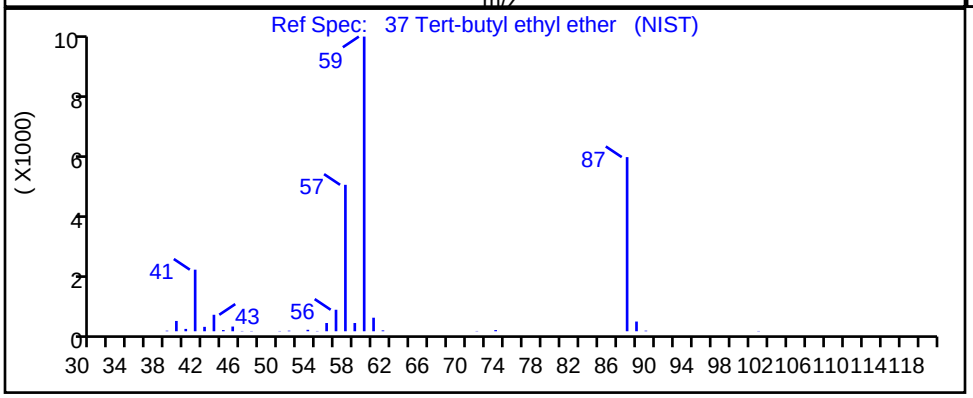
Processing Results











RT	Mass	Response	Amount
2.94	59.00	483	0.064386
2.94	87.00	136	

Reviewer: boykink, 20-Jun-2018 22:19:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

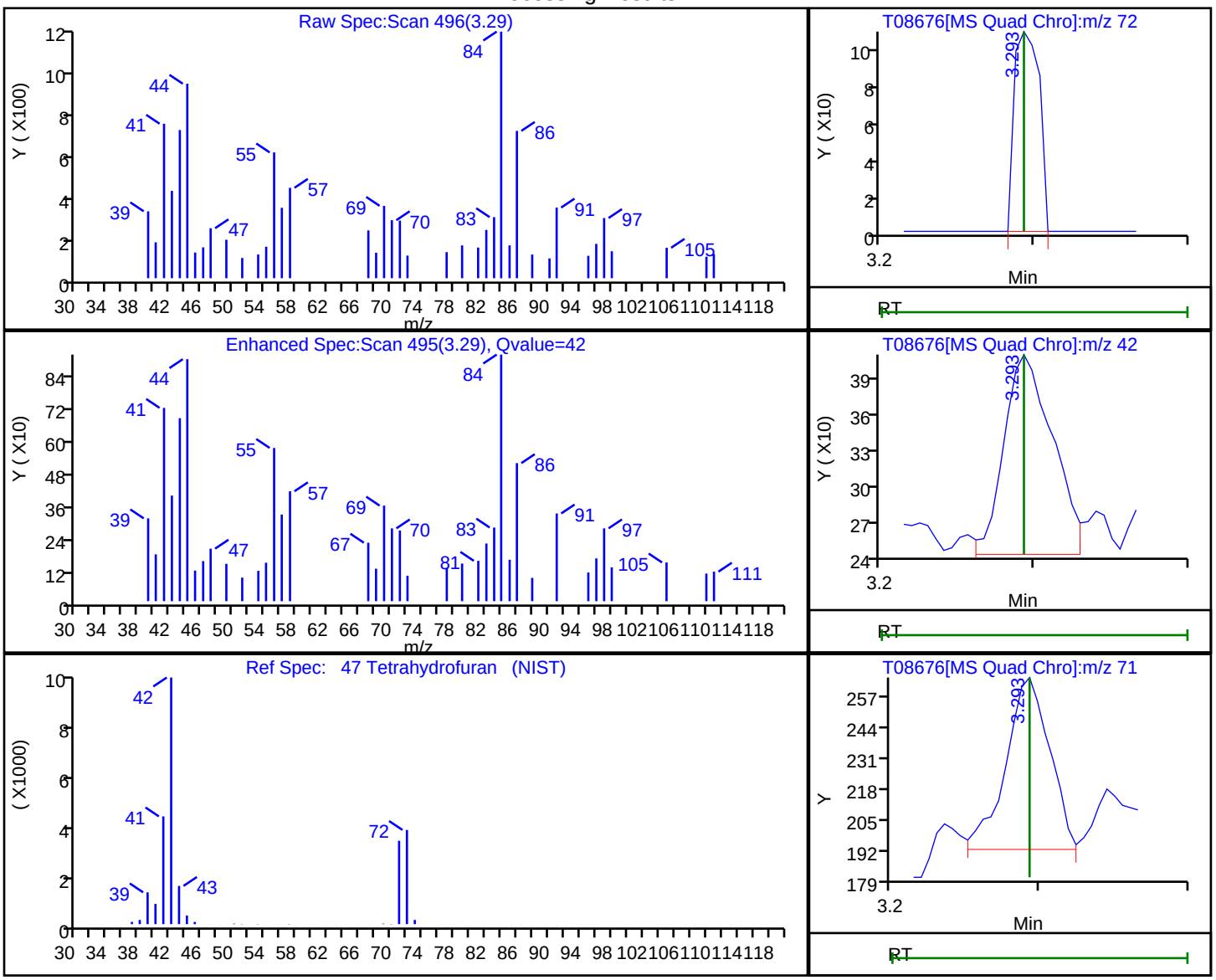
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

47 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
3.29	72.00	118	0.380518
3.29	42.00	341	
3.29	71.00	153	

Reviewer: boykink, 20-Jun-2018 22:19:53
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

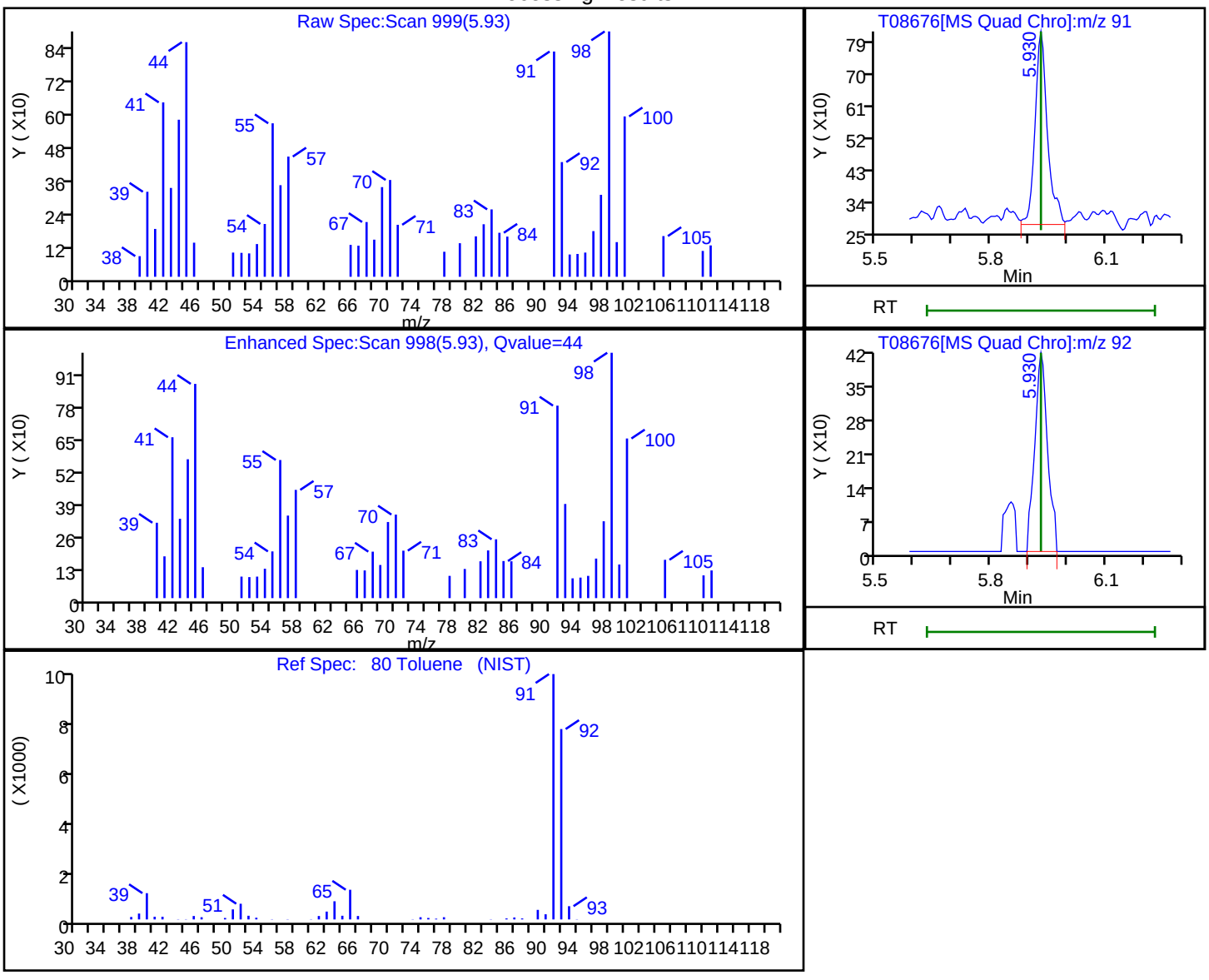
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

80 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
5.93	91.00	1241	0.106316
5.93	92.00	976	

Reviewer: boykink, 20-Jun-2018 22:20:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

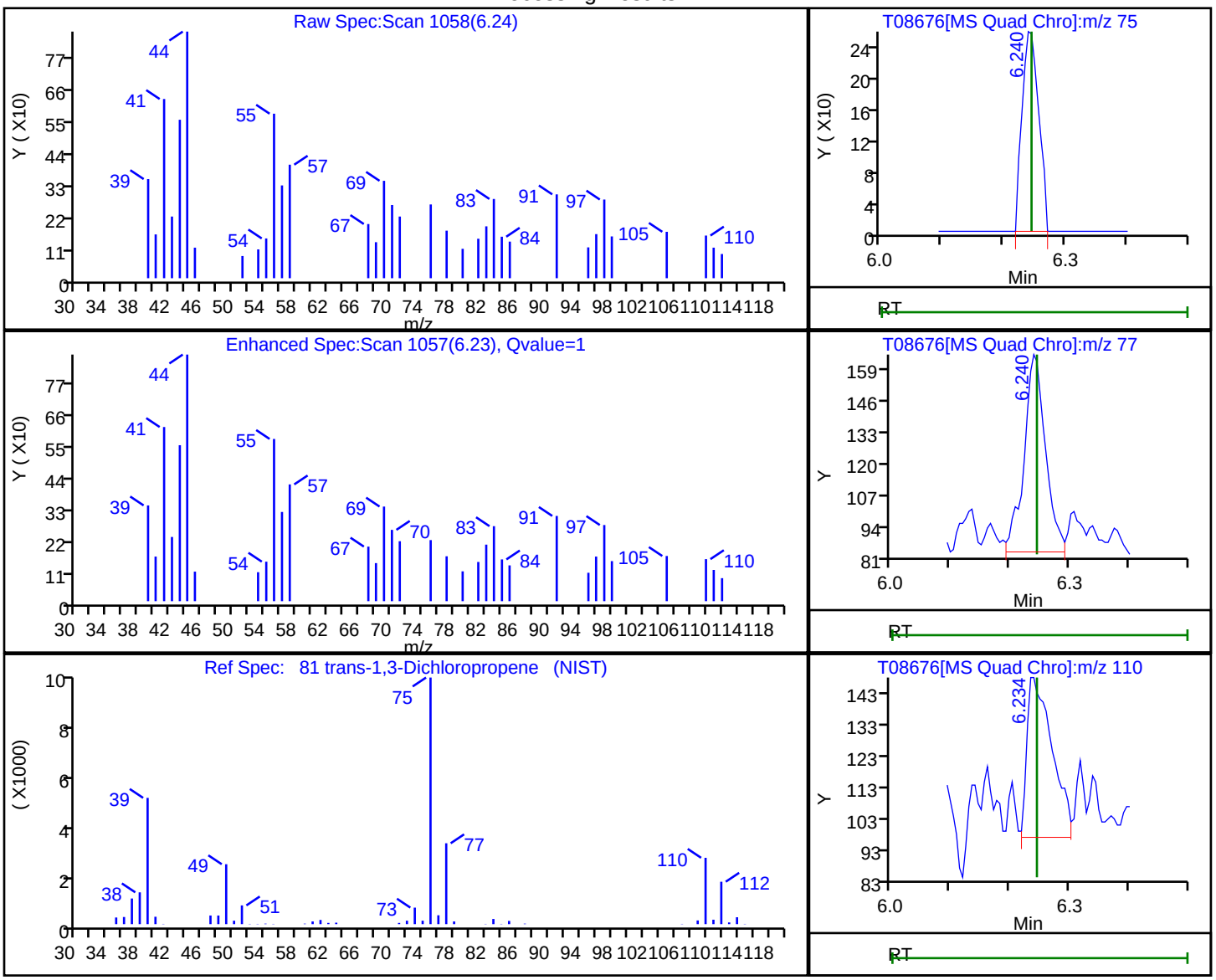
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

81 trans-1,3-Dichloropropene, CAS: 10061-02-6

Processing Results



RT	Mass	Response	Amount
6.24	75.00	485	0.131024
6.24	77.00	210	
6.23	110.00	154	

Reviewer: boykink, 20-Jun-2018 22:20:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

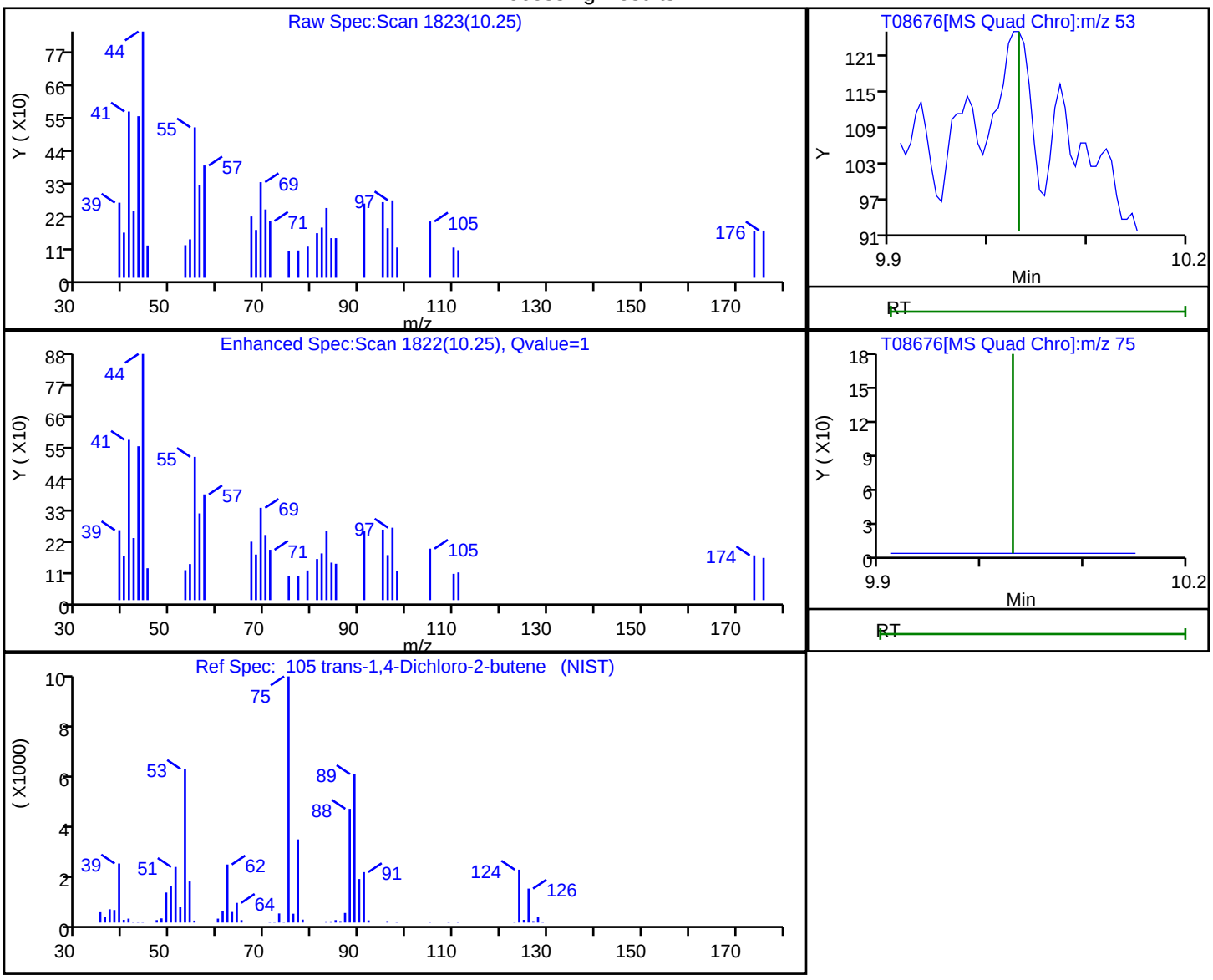
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
10.25	53.00	12	0.012681
10.25	75.00	81	

Reviewer: boykink, 20-Jun-2018 22:20:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

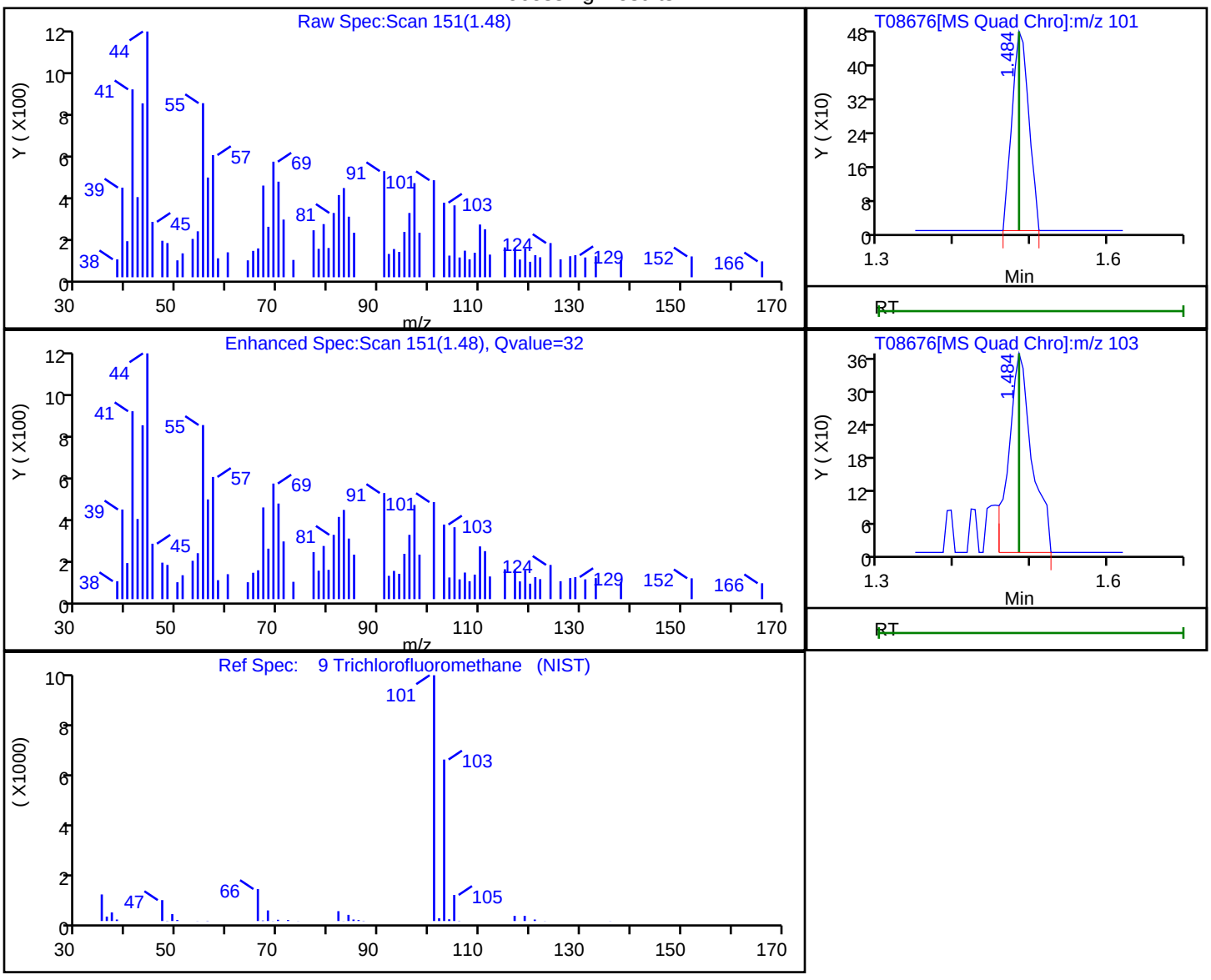
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D		
Injection Date:	20-Jun-2018 20:46:39	Instrument ID:	CVOAMS15
Lims ID:	STD8		
Client ID:			
Operator ID:		ALS Bottle#:	0 Worklist Smp#: 2
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260W_15	Limit Group:	VOA - 8260C Water and Solid
Column:	DB-624 (0.18 mm)	Detector	MS Quad

9 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
1.48	101.00	719	0.200935
1.48	103.00	758	

Reviewer: boykink, 20-Jun-2018 22:19:08

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

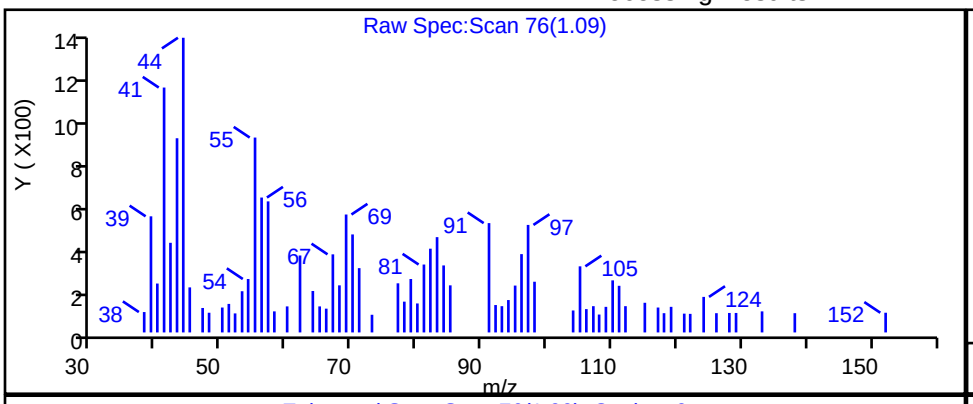
User Disabled Compound Report

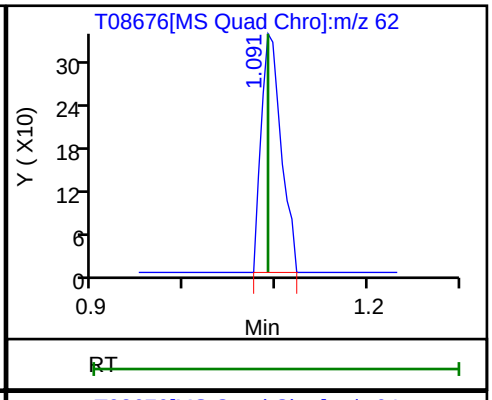
TestAmerica Edison

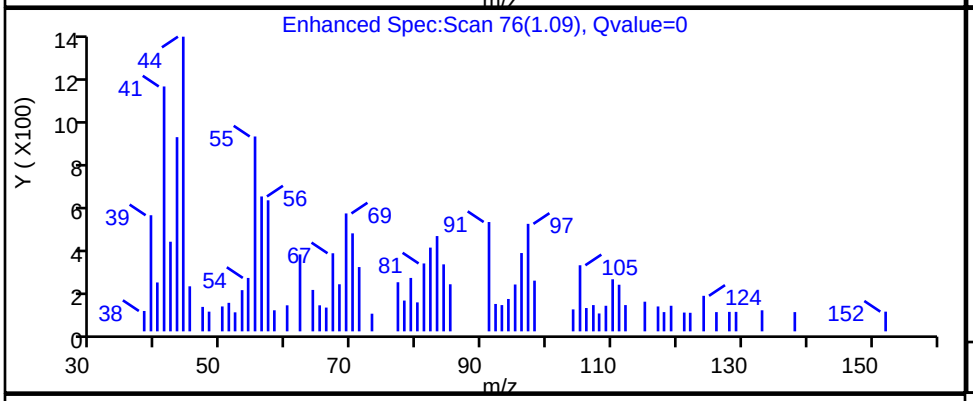
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08676.D
Injection Date: 20-Jun-2018 20:46:39 Instrument ID: CVOAMS15
Lims ID: STD8
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

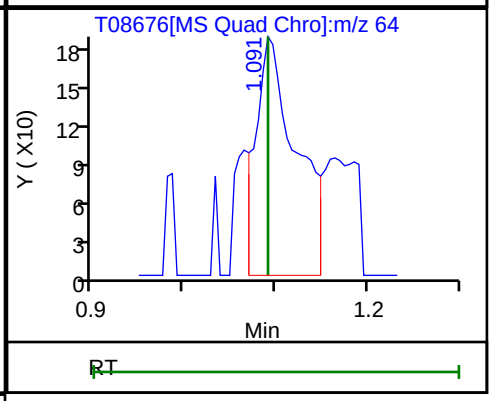
4 Vinyl chloride, CAS: 75-01-4

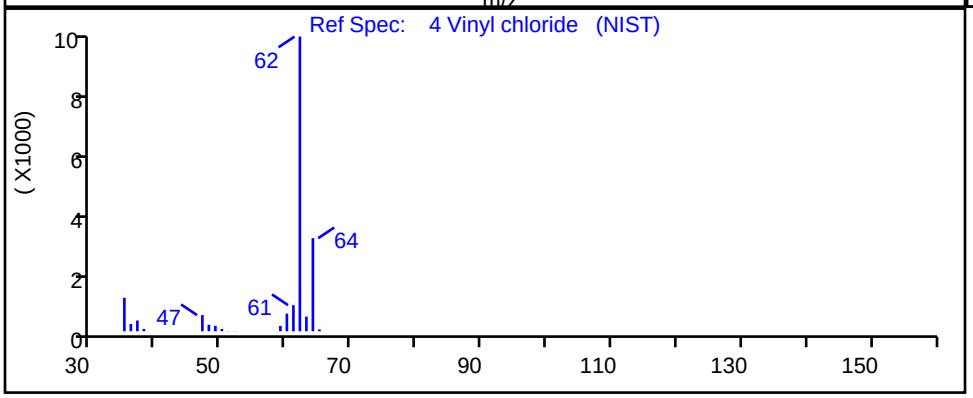
Processing Results











RT	Mass	Response	Amount
1.09	62.00	514	0.240711
1.09	64.00	574	

Reviewer: boykink, 20-Jun-2018 22:18:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Lims ID: STD05
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 20-Jun-2018 21:11:38 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD05
Misc. Info.: 460-0074090-003
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:08:11 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: boykink Date: 20-Jun-2018 22:04:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.913	0.907	0.006	21	464	0.5000	0.4299	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	32	1291	0.5000	0.4639	M
3 Chloromethane	50	1.033	1.033	0.000	24	1254	0.5000	0.6434	
4 Vinyl chloride	62	1.091	1.091	0.000	43	1119	0.5000	0.5570	
5 Butadiene	54	1.112	1.112	0.000	67	921	0.5000	0.5580	
6 Bromomethane	94	1.280	1.269	0.011	41	171	0.5000	0.4894	M
7 Chloroethane	64	1.337	1.332	0.005	43	360	0.5000	0.7406	M
8 Dichlorofluoromethane	67	1.453	1.453	0.000	62	1878	0.5000	0.6460	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	62	1920	0.5000	0.5159	
10 Pentane	72	1.531	1.531	0.000	89	486	1.00	1.18	
11 Ethanol	46	1.615	1.615	0.000	42	573	20.0	48.7	
12 Ethyl ether	59	1.662	1.662	0.000	48	1055	0.5000	0.5567	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	67	1350	0.5000	0.6057	
14 2-Methyl-1,3-butadiene	53	1.673	1.673	0.000	74	1122	0.5000	0.5886	
15 Acrolein	56	1.736	1.736	0.000	33	527	2.00	2.56	
16 1,1-Dichloroethene	96	1.799	1.793	0.006	72	1074	0.5000	0.4829	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	53	1169	0.5000	0.5269	
18 Acetone	43	1.835	1.835	0.000	69	2468	2.50	4.86	
19 Iodomethane	142	1.888	1.888	0.000	1	364	0.5000	0.1727	
21 Carbon disulfide	76	1.935	1.930	0.005	90	4015	0.5000	0.5969	
20 Isopropyl alcohol	45	1.930	1.935	-0.005	25	998	5.00	7.70	
24 Acetonitrile	40	2.014	2.014	0.000	86	981	5.00	5.82	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	74	897	0.5000	0.5065	
23 Methyl acetate	43	2.045	2.045	0.000	92	1570	1.00	0.9851	
25 Cyclopentene	67	2.082	2.082	0.000	83	2971	0.5000	0.5441	
26 Methylene Chloride	84	2.108	2.108	0.000	44	1439	0.5000	0.5323	
* 27 TBA-d9 (IS)	66	2.139	2.139	0.000	99	34910	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.197	2.197	0.000	51	1932	5.00	8.20	
29 Acrylonitrile	53	2.271	2.271	0.000	93	4580	5.00	5.20	
30 trans-1,2-Dichloroethene	96	2.292	2.292	0.000	67	1364	0.5000	0.5364	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	78	3576	0.5000	0.5360	
32 Hexane	57	2.491	2.491	0.000	86	1667	0.5000	0.5589	
33 1,1-Dichloroethane	63	2.596	2.590	0.006	69	2440	0.5000	0.5561	
34 Vinyl acetate	86	2.638	2.638	0.000	96	606	1.00	1.08	
35 Isopropyl ether	45	2.659	2.659	0.000	70	3719	0.5000	0.5266	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	48	1314	0.5000	0.5455	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	82	3593	0.5000	0.5124	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	99	229342	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.047	3.047	0.000	30	1497	0.5000	0.5040	
39 2,2-Dichloropropane	97	3.047	3.047	0.000	50	647	0.5000	0.6631	a
41 2-Butanone (MEK)	43	3.062	3.062	0.000	69	2911	2.50	3.15	
42 Propionitrile	54	3.109	3.109	0.000	68	1747	5.00	5.75	
43 Ethyl acetate	70	3.125	3.125	0.000	78	354	1.00	1.27	
44 Methyl acrylate	55	3.151	3.146	0.005	81	1222	0.5000	0.5025	
45 Methacrylonitrile	67	3.235	3.235	0.000	88	5168	5.00	5.16	
46 Chlorobromomethane	128	3.241	3.241	0.000	41	714	0.5000	0.5575	
47 Tetrahydrofuran	72	3.293	3.293	0.000	49	389	1.00	1.17	
48 Chloroform	83	3.314	3.314	0.000	71	2344	0.5000	0.5318	
$ 49 Dibromofluoromethane (Surr	113	3.455	3.456	-0.001	96	92021	50.0	50.3	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	13	2200	0.5000	0.5507	
51 Cyclohexane	84	3.524	3.518	0.006	78	1955	0.5000	0.5269	
52 Carbon tetrachloride	117	3.618	3.618	0.000	73	1919	0.5000	0.5673	
53 1,1-Dichloropropene	75	3.618	3.623	-0.005	53	1895	0.5000	0.5581	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	102661	50.0	51.5	
54 Isobutyl alcohol	43	3.770	3.770	0.000	85	1058	12.5	12.7	
56 Benzene	78	3.807	3.807	0.000	88	5972	0.5000	0.5541	
57 1,2-Dichloroethane	62	3.823	3.828	-0.006	46	2091	0.5000	0.6465	
58 Isooctane	57	3.901	3.901	0.000	88	3268	0.5000	0.5825	
59 Isopropyl acetate	61	3.917	3.917	0.000	82	390	0.5000	0.4447	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	64	3480	0.5000	0.5010	
* 61 Fluorobenzene	96	4.079	4.079	0.000	99	443872	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	36	1579	0.5000	0.6303	a
63 n-Butanol	56	4.457	4.441	0.016	64	729	12.5	12.1	
64 Trichloroethene	95	4.452	4.452	0.000	64	1500	0.5000	0.5331	
65 Ethyl acrylate	55	4.609	4.609	0.000	80	1482	0.5000	0.4793	
66 Methylcyclohexane	83	4.651	4.651	0.000	69	2028	0.5000	0.5095	
67 1,2-Dichloropropane	63	4.682	4.688	-0.006	49	1336	0.5000	0.5320	
* 68 1,4-Dioxane-d8	96	4.803	4.803	0.000	39	27489	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	19	975	0.5000	0.5951	
71 Methyl methacrylate	100	4.861	4.861	0.000	83	632	1.00	0.8909	
70 1,4-Dioxane	88	4.855	4.861	-0.006	28	677	25.0	24.6	
72 n-Propyl acetate	43	4.945	4.945	0.000	74	1479	0.5000	0.4772	
73 Dichlorobromomethane	83	4.997	4.997	0.000	63	1767	0.5000	0.5197	
74 2-Nitropropane	41	5.270	5.270	0.000	75	499	1.00	0.9483	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	39	720	0.5000	0.4499	
76 Epichlorohydrin	57	5.432	5.432	0.000	67	2509	10.0	11.0	
77 cis-1,3-Dichloropropene	75	5.532	5.532	0.000	67	2094	0.5000	0.5215	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	84	4799	2.50	2.67	
$ 79 Toluene-d8 (Surr)	98	5.852	5.852	0.000	100	343461	50.0	49.8	
80 Toluene	91	5.930	5.930	0.000	85	6588	0.5000	0.5954	
81 trans-1,3-Dichloropropene	75	6.245	6.245	0.000	67	1894	0.5000	0.5185	
82 Ethyl methacrylate	69	6.423	6.423	0.000	65	1581	0.5000	0.5012	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	44	919	0.5000	0.5057	
84 Tetrachloroethene	166	6.638	6.638	0.000	69	1457	0.5000	0.5123	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	62	1916	0.5000	0.5063	
86 2-Hexanone	43	6.864	6.858	0.006	81	3268	2.50	2.54	
87 Chlorodibromomethane	129	6.979	6.979	0.000	34	1207	0.5000	0.4894	
88 n-Butyl acetate	43	7.089	7.084	0.005	78	1668	0.5000	0.5061	
89 Ethylene Dibromide	107	7.105	7.105	0.000	30	1226	0.5000	0.5257	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	84	352183	50.0	50.0	
91 Chlorobenzene	112	7.833	7.834	-0.001	47	3988	0.5000	0.5473	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	41	1162	0.5000	0.4697	
93 Ethylbenzene	106	8.033	8.038	-0.005	81	2184	0.5000	0.5386	
94 m-Xylene & p-Xylene	106	8.221	8.222	-0.001	85	2740	0.5000	0.5505	
95 o-Xylene	106	8.809	8.814	-0.005	81	2644	0.5000	0.5544	
96 Styrene	104	8.840	8.840	0.000	81	4352	0.5000	0.5433	
97 n-Butyl acrylate	73	8.898	8.893	0.005	81	901	0.5000	0.4806	
98 Bromoform	173	9.071	9.071	0.000	24	634	0.5000	0.4231	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	79	1943	0.5000	0.5162	
100 Isopropylbenzene	105	9.422	9.422	0.000	75	6494	0.5000	0.5560	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	117339	50.0	50.9	
102 Bromobenzene	156	9.815	9.815	0.000	76	1527	0.5000	0.5215	
103 1,1,2,2-Tetrachloroethane	83	9.931	9.936	-0.005	16	1395	0.5000	0.5101	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	39	488	0.5000	0.5188	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	1	296	0.5000	0.3965	
106 N-Propylbenzene	91	10.088	10.088	0.000	88	7185	0.5000	0.5448	
107 2-Chlorotoluene	91	10.161	10.167	-0.006	59	4322	0.5000	0.5470	
108 4-Ethyltoluene	105	10.287	10.287	0.000	85	6089	0.5000	0.5515	
109 4-Chlorotoluene	91	10.355	10.355	0.000	76	4633	0.5000	0.5484	
110 1,3,5-Trimethylbenzene	105	10.403	10.403	0.000	78	4904	0.5000	0.5484	
111 Butyl Methacrylate	87	10.686	10.686	0.000	74	1627	0.5000	0.5035	
112 tert-Butylbenzene	119	10.922	10.922	0.000	71	4518	0.5000	0.5712	
118 1,2,4-Trimethylbenzene	105	11.006	11.006	0.000	82	5027	0.5000	0.5461	
113 sec-Butylbenzene	105	11.283	11.283	0.000	87	6054	0.5000	0.5563	
114 1,3-Dichlorobenzene	146	11.373	11.373	0.000	70	2734	0.5000	0.5306	
* 115 1,4-Dichlorobenzene-d4	152	11.477	11.483	-0.006	96	180995	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	47	2834	0.5000	0.5488	a
117 4-Isopropyltoluene	119	11.525	11.525	0.000	83	5260	0.5000	0.5749	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	93	4901	0.5000	0.5422	
119 Benzyl chloride	91	11.729	11.729	0.000	70	2663	0.5000	0.4829	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	81	4849	0.5000	0.5413	
121 1,2-Dichlorobenzene	146	11.997	11.997	0.000	75	2434	0.5000	0.5159	
122 p-Diethylbenzene	119	12.044	12.044	0.000	71	2714	0.5000	0.5601	
123 n-Butylbenzene	92	12.070	12.070	0.000	86	2613	0.5000	0.5927	
124 1,2-Dibromo-3-Chloropropan	155	12.904	12.904	0.000	1	177	0.5000	0.3924	
125 1,2,4,5-Tetramethylbenzene	119	12.925	12.925	0.000	83	4194	0.5000	0.5591	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	56	1493	0.5000	0.5310	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	22	1182	0.5000	0.4762	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	7	508	0.5000	0.5177	
129 Naphthalene	128	13.926	13.926	0.000	86	3161	0.5000	0.4388	
130 1,2,3-Trichlorobenzene	180	14.141	14.146	-0.005	21	1071	0.5000	0.4832	
S 131 1,2-Dichloroethene, Total	100				0		1.00	1.04	
S 132 Xylenes, Total	100				0		1.00	1.10	
S 133 Total BTEX	1				0		2.50	2.79	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		1.00	1.04	
S 134 Total 1,2-dichloroethene	1				0			1.04	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	2.00	Units: uL	
GAS Hi_00260	Amount Added:	0.50	Units: uL	
MIX 2 Hi_00071	Amount Added:	0.50	Units: uL	
Ethanol mix_00016	Amount Added:	0.50	Units: uL	
14DIOXINTER_00085	Amount Added:	15.00	Units: uL	
MIX I Hi_00095	Amount Added:	0.50	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:08:13 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D

Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15

Lims ID: STD05

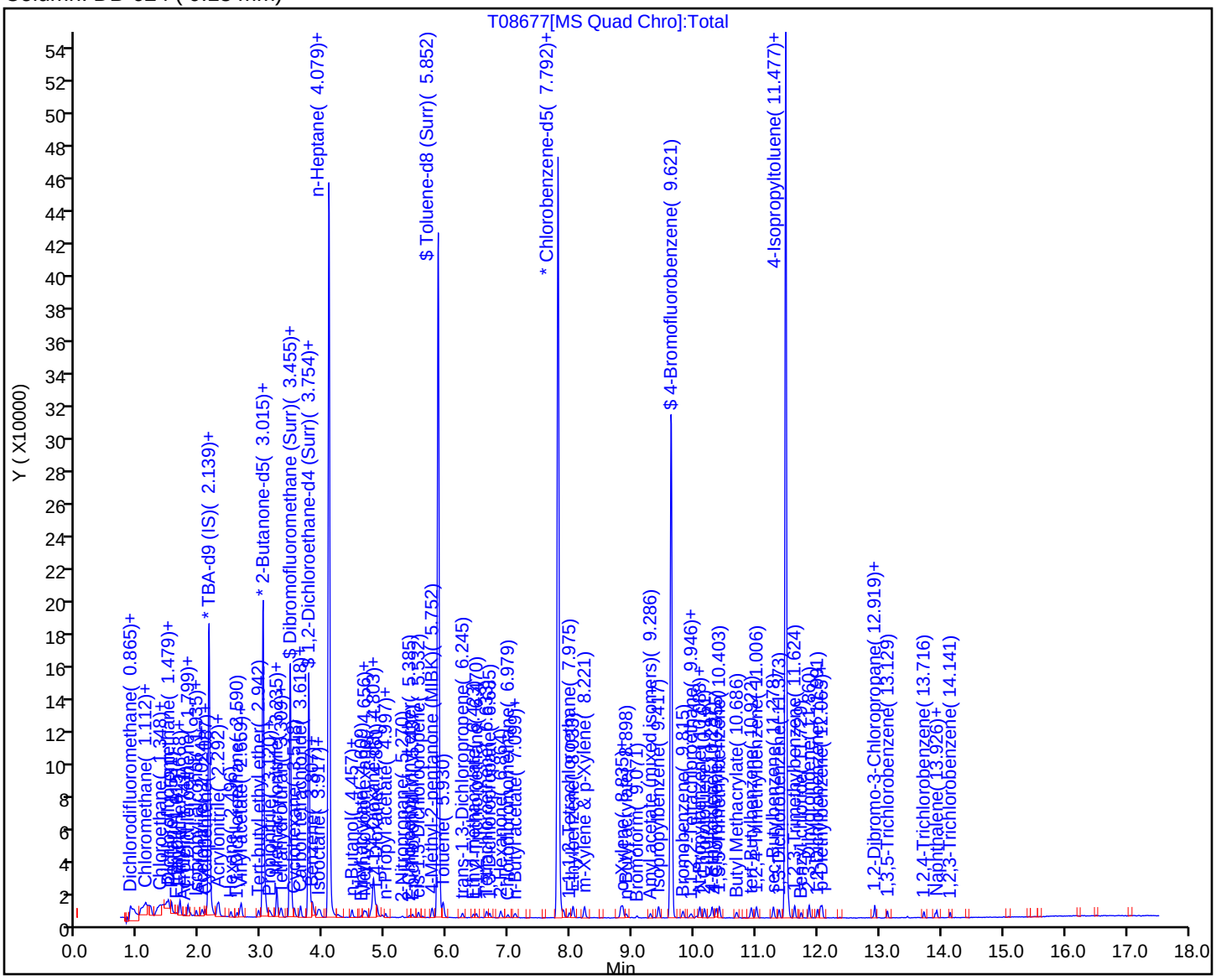
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

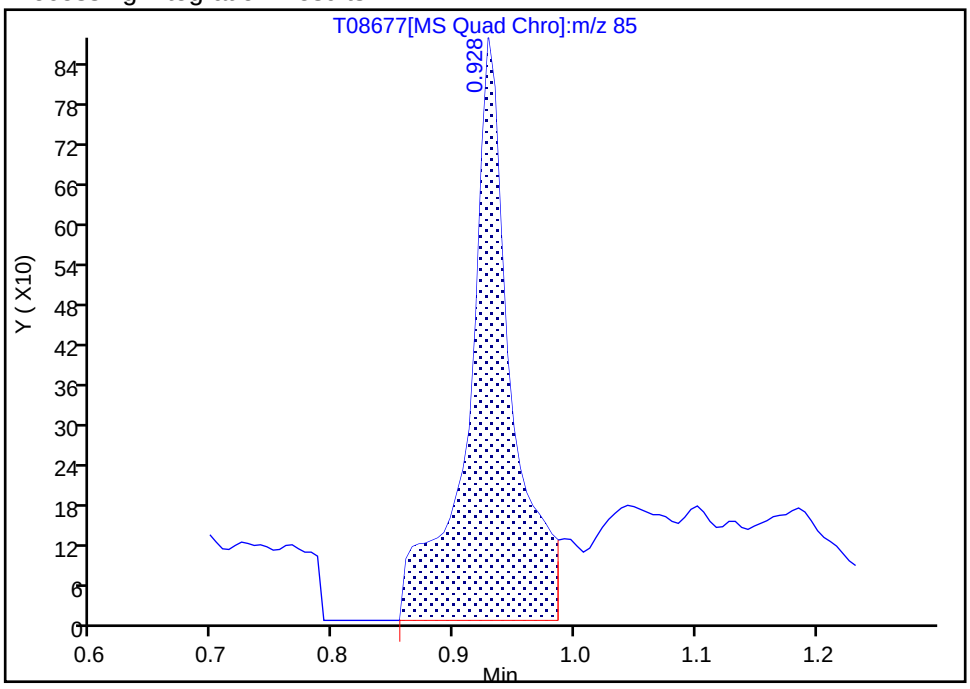
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

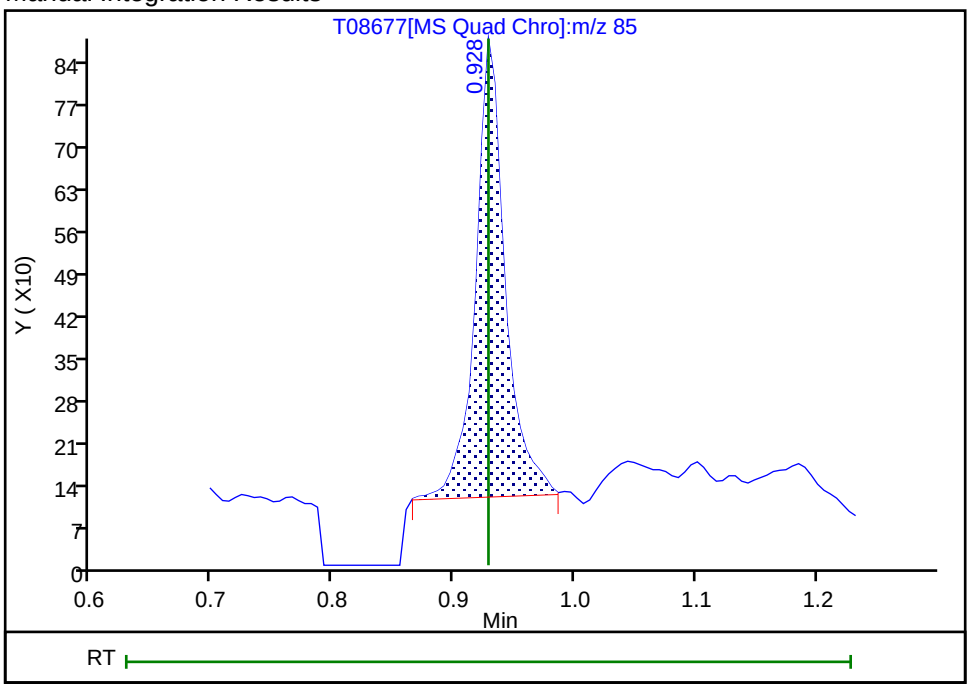
Processing Integration Results

RT: 0.93
Area: 2169
Amount: 0.654530
Amount Units: ug/l



Manual Integration Results

RT: 0.93
Area: 1291
Amount: 0.463908
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:07:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

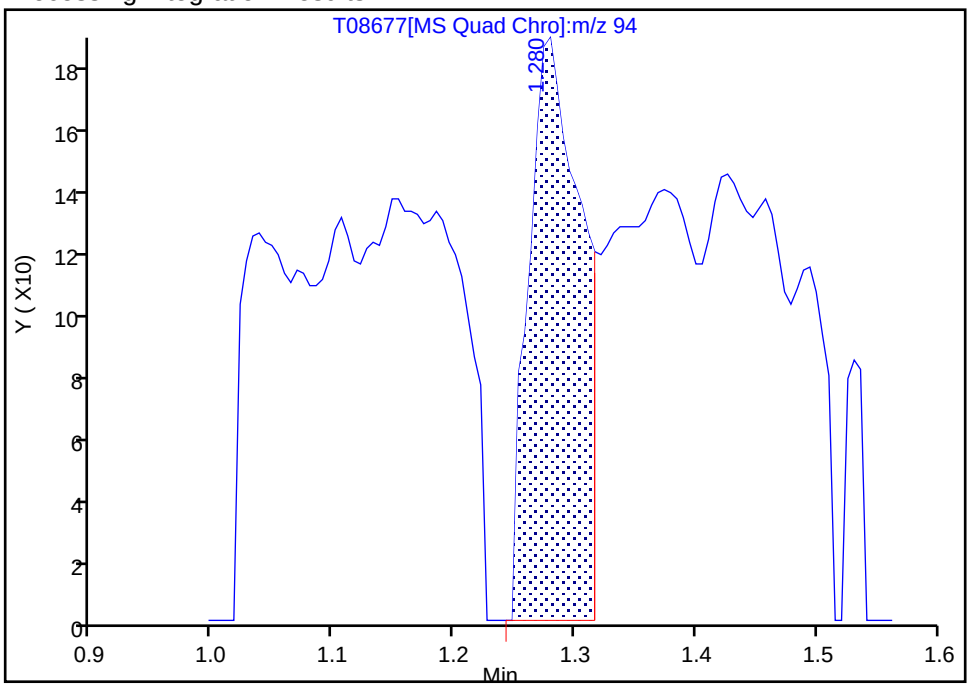
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Signal: 1

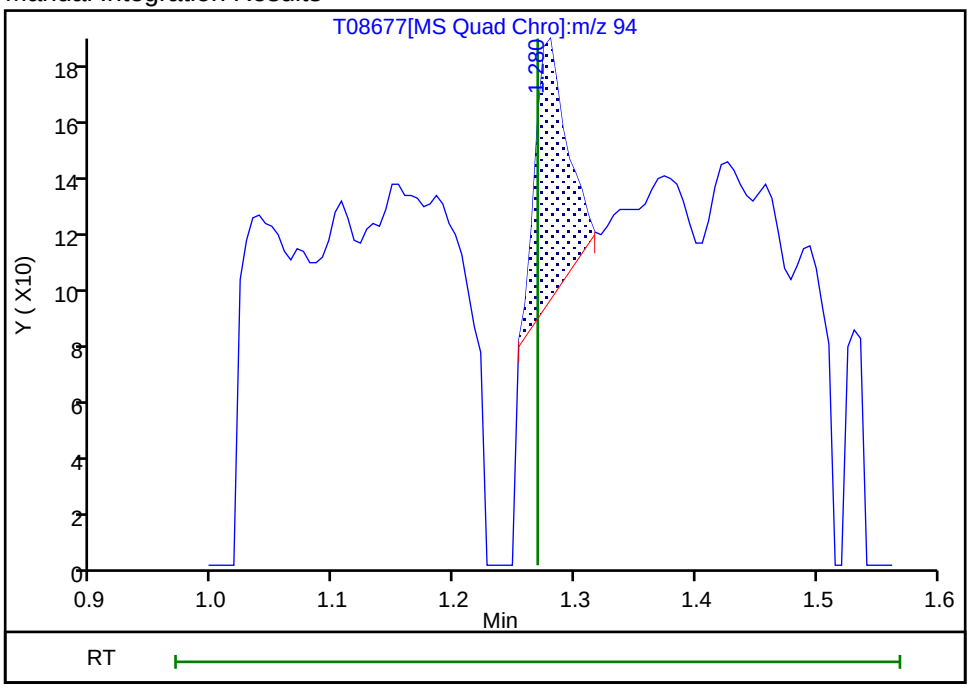
Processing Integration Results

RT: 1.28
Area: 572
Amount: 1.900624
Amount Units: ug/l



Manual Integration Results

RT: 1.28
Area: 171
Amount: 0.489440
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:07:59
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

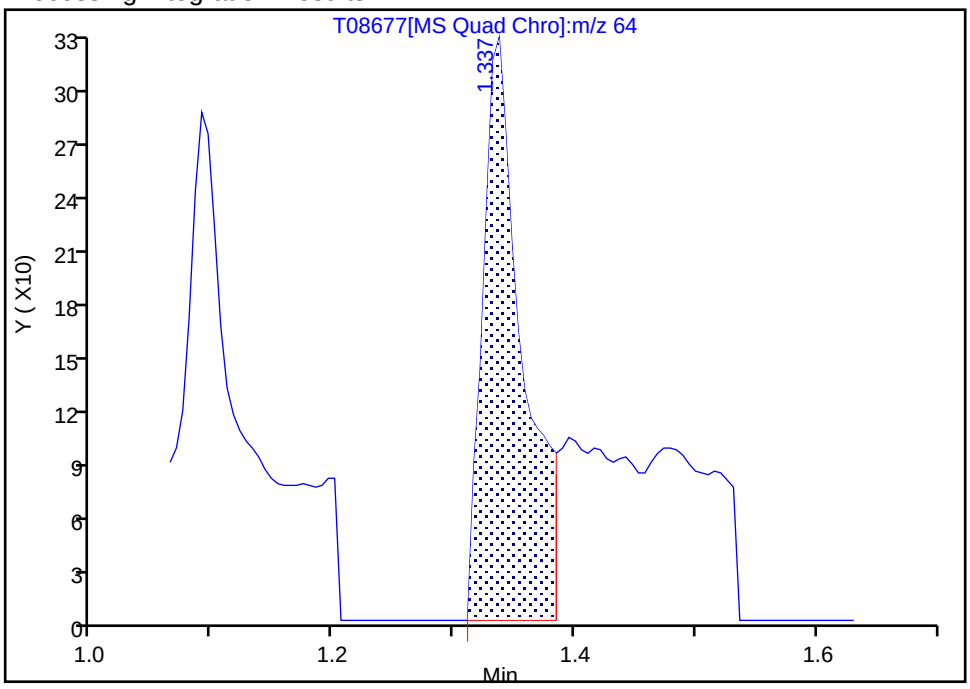
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

7 Chloroethane, CAS: 75-00-3

Signal: 1

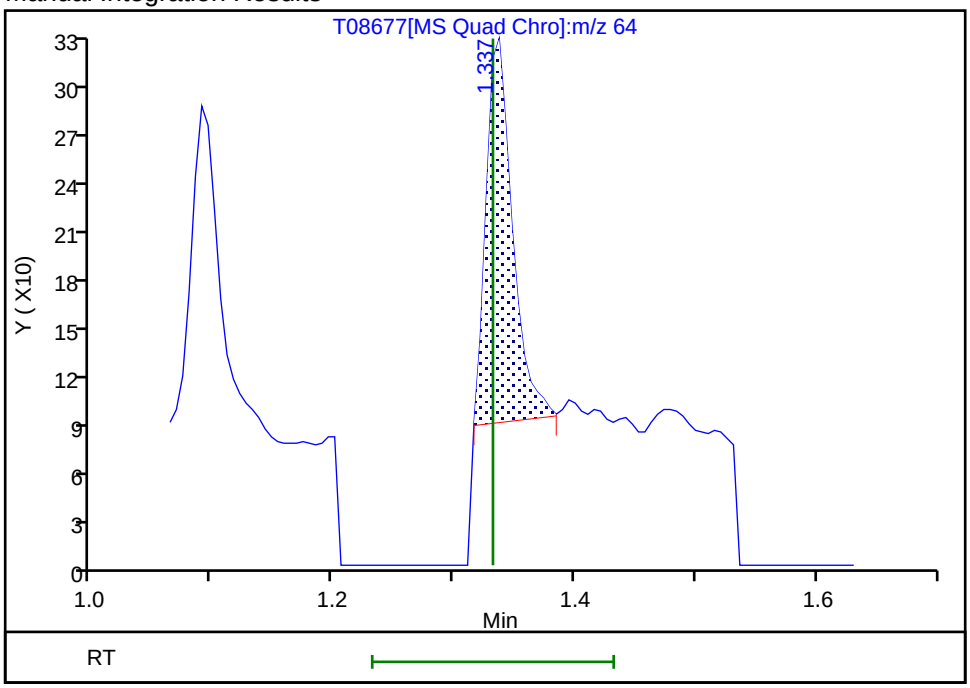
Processing Integration Results

RT: 1.34
Area: 757
Amount: 1.136273
Amount Units: ug/l



Manual Integration Results

RT: 1.34
Area: 360
Amount: 0.740613
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:08:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

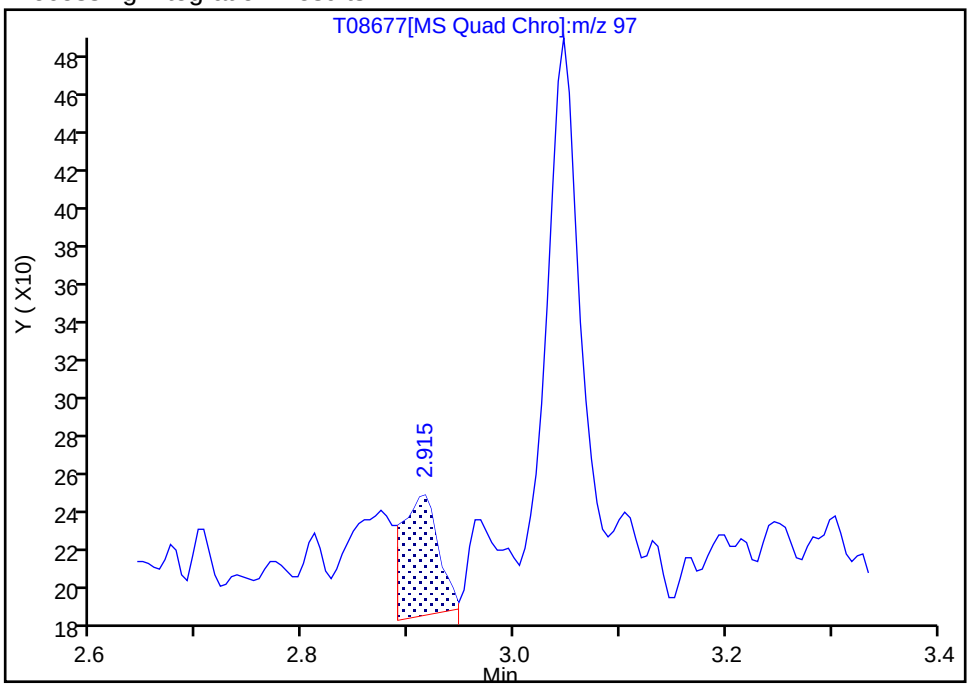
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

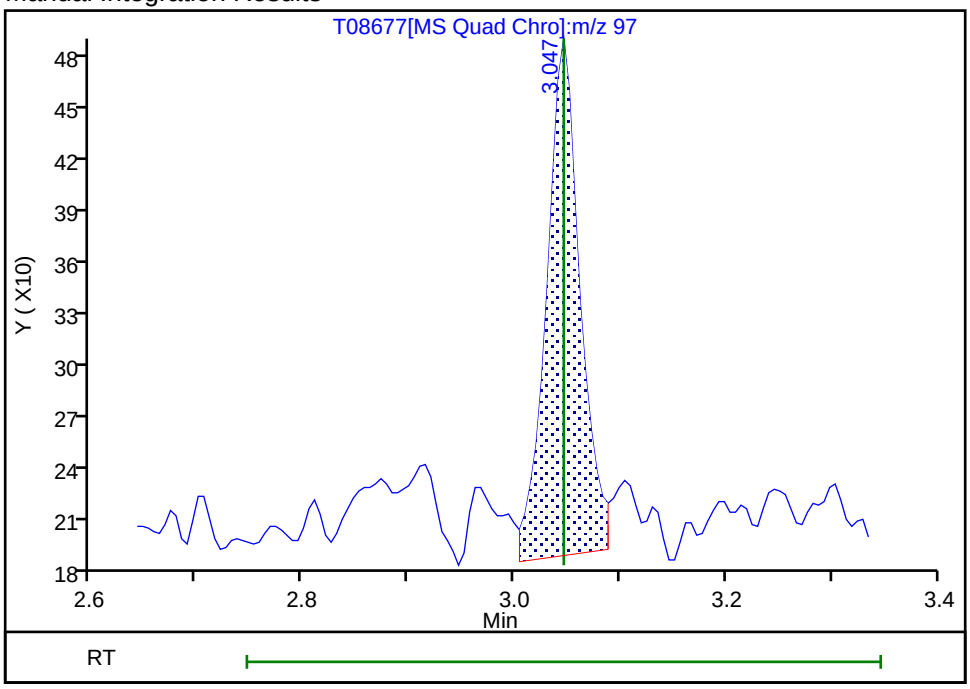
Processing Integration Results

RT: 2.92
Area: 154
Amount: 0.156028
Amount Units: ug/l



Manual Integration Results

RT: 3.05
Area: 647
Amount: 0.663120
Amount Units: ug/l



Reviewer: desais, 21-Jun-2018 07:53:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

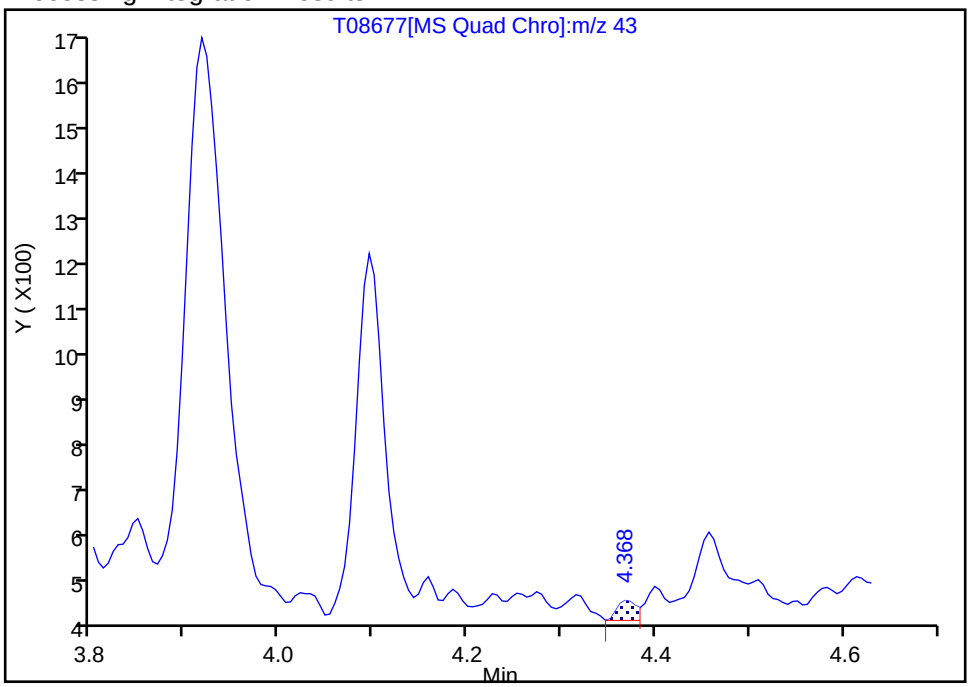
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

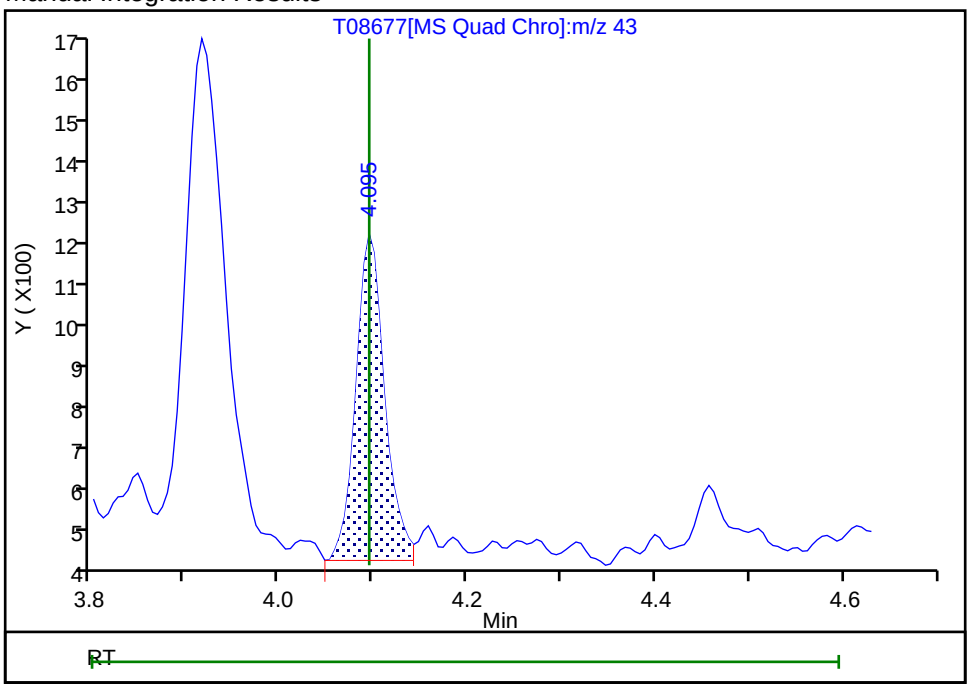
Processing Integration Results

RT: 4.37
Area: 61
Amount: 0.043574
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 1579
Amount: 0.630276
Amount Units: ug/l



Reviewer: desais, 21-Jun-2018 07:53:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

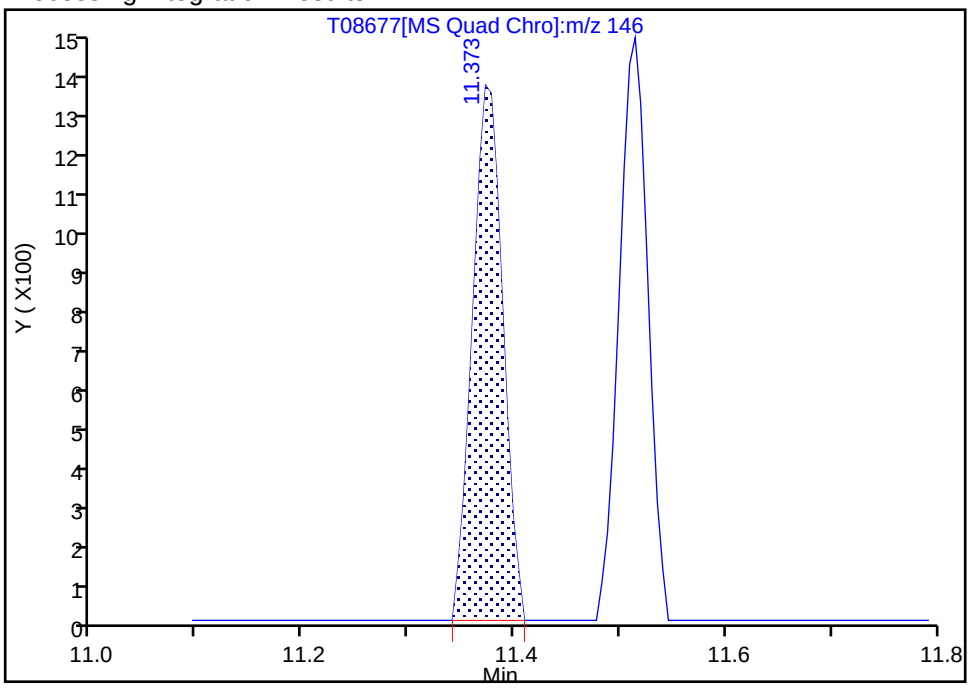
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08677.D
Injection Date: 20-Jun-2018 21:11:38 Instrument ID: CVOAMS15
Lims ID: STD05
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

116 1,4-Dichlorobenzene, CAS: 106-46-7

Signal: 1

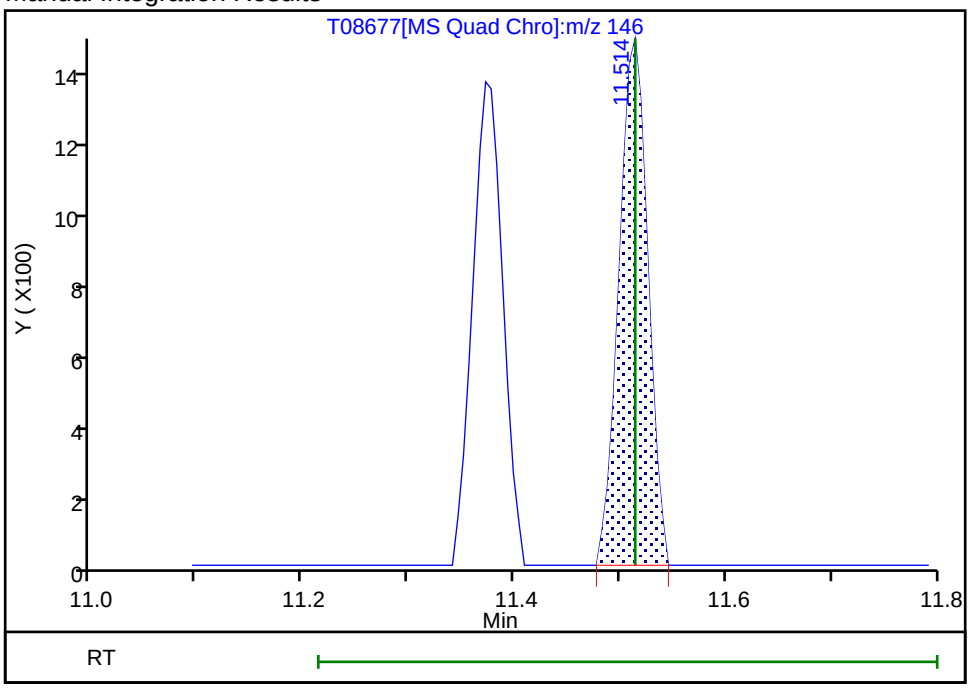
Processing Integration Results

RT: 11.37
Area: 2734
Amount: 0.532395
Amount Units: ug/l



Manual Integration Results

RT: 11.51
Area: 2834
Amount: 0.548814
Amount Units: ug/l



Reviewer: desais, 21-Jun-2018 07:53:34
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 20-Jun-2018 21:36:45 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074090-004
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:08:25 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: boykink Date: 20-Jun-2018 22:25:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	42	976	1.00	0.9055	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	68	2597	1.00	0.9345	M
3 Chloromethane	50	1.033	1.033	0.000	64	1989	1.00	1.02	
4 Vinyl chloride	62	1.091	1.091	0.000	67	1975	1.00	0.9845	
5 Butadiene	54	1.112	1.112	0.000	94	1557	1.00	0.9445	
6 Bromomethane	94	1.274	1.269	0.005	52	196	1.00	0.5310	M
7 Chloroethane	64	1.337	1.332	0.005	60	1067	1.00	2.08	
8 Dichlorofluoromethane	67	1.453	1.453	0.000	72	3064	1.00	1.06	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	76	3771	1.00	1.01	
10 Pentane	72	1.531	1.531	0.000	93	888	2.00	2.15	
11 Ethanol	46	1.610	1.615	-0.005	57	860	40.0	66.4	
12 Ethyl ether	59	1.662	1.662	0.000	52	1923	1.00	1.02	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	73	2385	1.00	1.07	
14 2-Methyl-1,3-butadiene	53	1.673	1.673	0.000	80	2080	1.00	1.09	
15 Acrolein	56	1.736	1.736	0.000	52	933	4.00	4.12	
16 1,1-Dichloroethene	96	1.799	1.793	0.006	79	2163	1.00	0.9739	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	61	2168	1.00	0.9785	
18 Acetone	43	1.835	1.835	0.000	74	4379	5.00	8.17	
19 Iodomethane	142	1.888	1.888	0.000	9	506	1.00	0.2405	
21 Carbon disulfide	76	1.935	1.930	0.005	95	6967	1.00	1.04	
20 Isopropyl alcohol	45	1.935	1.935	0.000	36	1754	10.0	12.3	
24 Acetonitrile	40	2.014	2.014	0.000	87	2027	10.0	11.4	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	86	1717	1.00	0.9709	
23 Methyl acetate	43	2.045	2.045	0.000	95	3534	2.00	2.22	
25 Cyclopentene	67	2.082	2.082	0.000	93	5947	1.00	1.09	
26 Methylene Chloride	84	2.108	2.108	0.000	72	3062	1.00	1.13	
* 27 TBA-d9 (IS)	66	2.139	2.139	0.000	99	38422	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.197	2.197	0.000	67	3131	10.0	12.1	
29 Acrylonitrile	53	2.271	2.271	-0.001	95	8966	10.0	10.2	
30 trans-1,2-Dichloroethene	96	2.291	2.292	-0.001	78	2758	1.00	1.09	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	92	6872	1.00	1.03	
32 Hexane	57	2.491	2.491	0.000	91	3004	1.00	1.01	
33 1,1-Dichloroethane	63	2.596	2.590	0.006	80	4490	1.00	1.02	
34 Vinyl acetate	86	2.638	2.638	0.000	98	1114	2.00	1.87	
35 Isopropyl ether	45	2.659	2.659	-0.001	78	7412	1.00	1.05	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	66	2479	1.00	1.03	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	89	7344	1.00	1.05	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	99	242319	250.0	250.0	
39 2,2-Dichloropropane	97	3.046	3.047	-0.001	54	910	1.00	0.9339	a
40 cis-1,2-Dichloroethene	96	3.046	3.047	-0.001	37	3141	1.00	1.06	
41 2-Butanone (MEK)	43	3.067	3.062	0.005	95	5201	5.00	5.32	
42 Propionitrile	54	3.109	3.109	0.000	83	3546	10.0	10.6	
43 Ethyl acetate	70	3.125	3.125	0.000	93	617	2.00	2.09	
44 Methyl acrylate	55	3.151	3.146	0.005	85	2480	1.00	1.02	
45 Methacrylonitrile	67	3.235	3.235	0.000	90	10376	10.0	10.4	
46 Chlorobromomethane	128	3.240	3.241	-0.001	41	1350	1.00	1.06	
47 Tetrahydrofuran	72	3.293	3.293	0.000	57	709	2.00	2.02	
48 Chloroform	83	3.314	3.314	0.000	81	4591	1.00	1.04	
$ 49 Dibromofluoromethane (Surr	113	3.455	3.456	-0.001	96	90930	50.0	49.8	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	23	4161	1.00	1.04	
51 Cyclohexane	84	3.524	3.518	0.006	86	3979	1.00	1.07	
52 Carbon tetrachloride	117	3.618	3.618	0.000	75	3447	1.00	1.02	
53 1,1-Dichloropropene	75	3.623	3.623	0.000	84	3620	1.00	1.07	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	102270	50.0	51.4	
54 Isobutyl alcohol	43	3.770	3.770	0.000	85	2342	25.0	25.5	
56 Benzene	78	3.807	3.807	0.000	96	11369	1.00	1.06	
57 1,2-Dichloroethane	62	3.828	3.828	0.000	64	3622	1.00	1.12	
58 Isooctane	57	3.901	3.901	0.000	94	5859	1.00	1.05	
59 Isopropyl acetate	61	3.917	3.917	0.000	87	817	1.00	0.9328	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	79	7151	1.00	1.03	
* 61 Fluorobenzene	96	4.079	4.079	0.000	99	443267	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	36	2840	1.00	1.14	a
63 n-Butanol	56	4.457	4.441	0.016	58	1738	25.0	26.2	
64 Trichloroethene	95	4.452	4.452	0.000	81	3272	1.00	1.16	
65 Ethyl acrylate	55	4.609	4.609	0.000	88	2953	1.00	0.9563	
66 Methylcyclohexane	83	4.651	4.651	0.000	81	4080	1.00	1.03	
67 1,2-Dichloropropane	63	4.682	4.688	-0.006	65	2555	1.00	1.02	
* 68 1,4-Dioxane-d8	96	4.803	4.803	0.000	47	28964	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	23	1791	1.00	1.09	
70 1,4-Dioxane	88	4.861	4.861	0.000	32	1369	50.0	47.2	
71 Methyl methacrylate	100	4.861	4.861	0.000	87	1314	2.00	1.85	
72 n-Propyl acetate	43	4.945	4.945	-0.001	89	3179	1.00	1.03	
73 Dichlorobromomethane	83	4.997	4.997	0.000	86	3399	1.00	1.00	
74 2-Nitropropane	41	5.270	5.270	0.000	76	1101	2.00	2.10	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	61	1528	1.00	0.9561	
76 Epichlorohydrin	57	5.432	5.432	0.000	84	4664	20.0	19.3	
77 cis-1,3-Dichloropropene	75	5.532	5.532	0.000	73	4043	1.00	1.02	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	91	9579	5.00	5.05	
$ 79 Toluene-d8 (Surr)	98	5.852	5.852	0.000	100	343755	50.0	50.3	
80 Toluene	91	5.930	5.930	0.000	90	11990	1.00	1.09	
81 trans-1,3-Dichloropropene	75	6.245	6.245	0.000	78	3641	1.00	1.01	
82 Ethyl methacrylate	69	6.423	6.423	0.000	79	3250	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	84	1803	1.00	1.00	
84 Tetrachloroethene	166	6.638	6.638	0.000	82	2827	1.00	1.00	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	83	3790	1.00	1.01	
86 2-Hexanone	43	6.863	6.858	0.005	89	6899	5.00	5.08	
87 Chlorodibromomethane	129	6.979	6.979	0.000	60	2367	1.00	0.9683	
88 n-Butyl acetate	43	7.089	7.084	0.005	84	3557	1.00	1.09	
89 Ethylene Dibromide	107	7.105	7.105	0.000	49	2374	1.00	1.03	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	84	349099	50.0	50.0	
91 Chlorobenzene	112	7.833	7.834	-0.001	64	7568	1.00	1.05	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	72	2441	1.00	1.00	
93 Ethylbenzene	106	8.038	8.038	0.000	92	4309	1.00	1.07	
94 m-Xylene & p-Xylene	106	8.221	8.222	-0.001	93	5237	1.00	1.06	
95 o-Xylene	106	8.809	8.814	-0.005	88	4838	1.00	1.02	
96 Styrene	104	8.840	8.840	0.000	88	8304	1.00	1.05	
97 n-Butyl acrylate	73	8.898	8.893	0.005	86	1859	1.00	1.00	
98 Bromoform	173	9.071	9.071	0.000	43	1334	1.00	0.8981	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	87	3687	1.00	0.9774	
100 Isopropylbenzene	105	9.422	9.422	0.000	83	12173	1.00	1.05	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	115872	50.0	50.7	
102 Bromobenzene	156	9.815	9.815	0.000	93	2931	1.00	1.00	
103 1,1,2,2-Tetrachloroethane	83	9.931	9.936	-0.005	61	2671	1.00	0.9747	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	64	1075	1.00	1.14	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	22	1030	1.00	1.38	
106 N-Propylbenzene	91	10.088	10.088	0.000	93	14047	1.00	1.06	
107 2-Chlorotoluene	91	10.167	10.167	0.000	84	8383	1.00	1.06	
108 4-Ethyltoluene	105	10.287	10.287	0.000	90	11616	1.00	1.05	
109 4-Chlorotoluene	91	10.355	10.355	0.000	90	8859	1.00	1.05	
110 1,3,5-Trimethylbenzene	105	10.403	10.403	0.000	84	9353	1.00	1.04	
111 Butyl Methacrylate	87	10.686	10.686	0.000	80	3097	1.00	0.9563	
112 tert-Butylbenzene	119	10.922	10.922	0.000	83	8235	1.00	1.04	
118 1,2,4-Trimethylbenzene	105	11.006	11.006	0.000	86	9722	1.00	1.05	
113 sec-Butylbenzene	105	11.278	11.283	-0.005	92	11601	1.00	1.06	
114 1,3-Dichlorobenzene	146	11.373	11.373	0.000	87	5245	1.00	1.02	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.483	0.000	95	181381	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	50	5328	1.00	1.03	
117 4-Isopropyltoluene	119	11.525	11.525	0.000	88	9842	1.00	1.07	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	97	9466	1.00	1.05	
119 Benzyl chloride	91	11.729	11.729	0.000	88	5484	1.00	0.99	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	87	9496	1.00	1.06	
121 1,2-Dichlorobenzene	146	11.996	11.997	-0.001	87	4694	1.00	0.99	
122 p-Diethylbenzene	119	12.044	12.044	0.000	83	5042	1.00	1.04	
123 n-Butylbenzene	92	12.070	12.070	0.000	91	4711	1.00	1.07	
124 1,2-Dibromo-3-Chloropropan	155	12.904	12.904	0.000	1	398	1.00	0.8805	
125 1,2,4,5-Tetramethylbenzene	119	12.925	12.925	-0.001	91	7749	1.00	1.03	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	76	2833	1.00	1.01	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	52	2370	1.00	0.9529	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	42	1003	1.00	1.02	
129 Naphthalene	128	13.926	13.926	0.000	93	6739	1.00	0.9335	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	66	2065	1.00	0.9296	
S 131 1,2-Dichloroethene, Total	100				0		2.00	2.14	
S 132 Xylenes, Total	100				0		2.00	2.08	
S 134 Total 1,2-dichloroethene	1				0			2.14	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		2.00	2.02	
S 133 Total BTEX	1				0		5.00	5.31	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GAS Hi_00260	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
14DIOXINTER_00085	Amount Added:	30.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:08:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D

Injection Date: 20-Jun-2018 21:36:45 Instrument ID: CVOAMS15

Lims ID: STD1

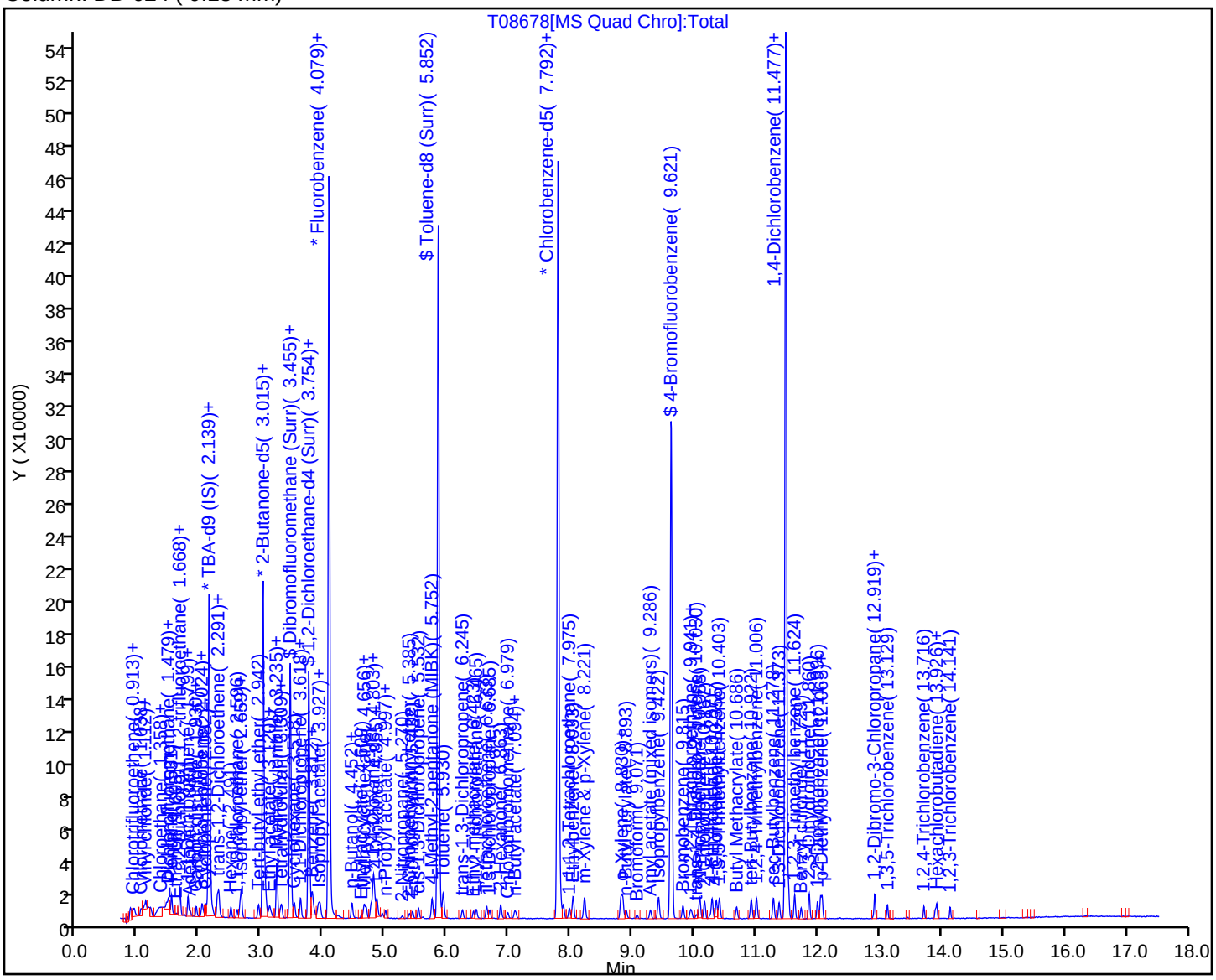
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

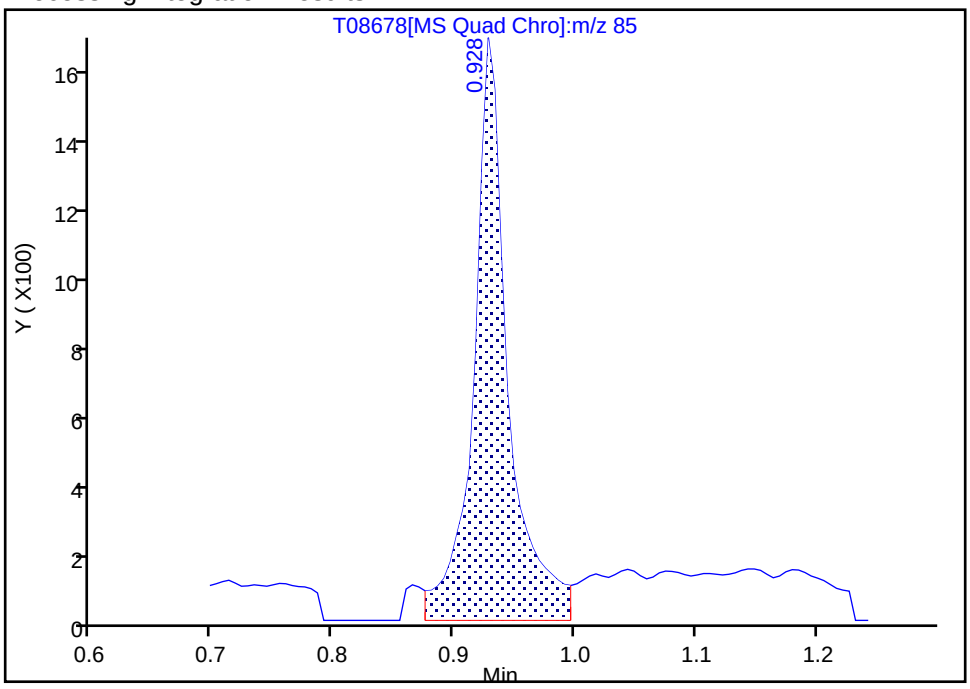
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D
Injection Date: 20-Jun-2018 21:36:45 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

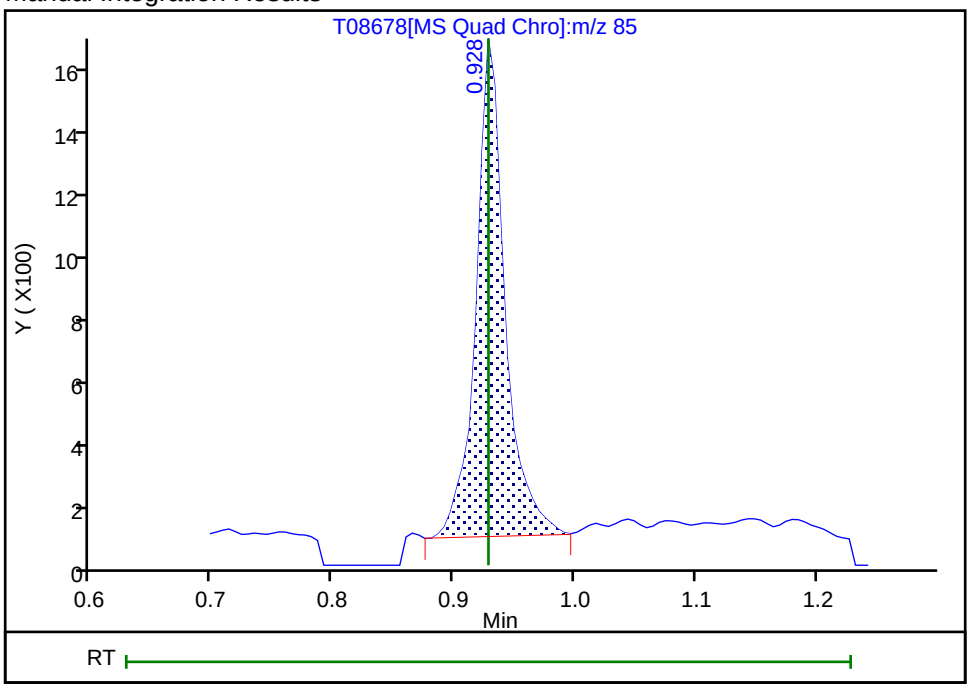
Processing Integration Results

RT: 0.93
Area: 3284
Amount: 1.141376
Amount Units: ug/l



Manual Integration Results

RT: 0.93
Area: 2597
Amount: 0.934480
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:12:52
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Edison

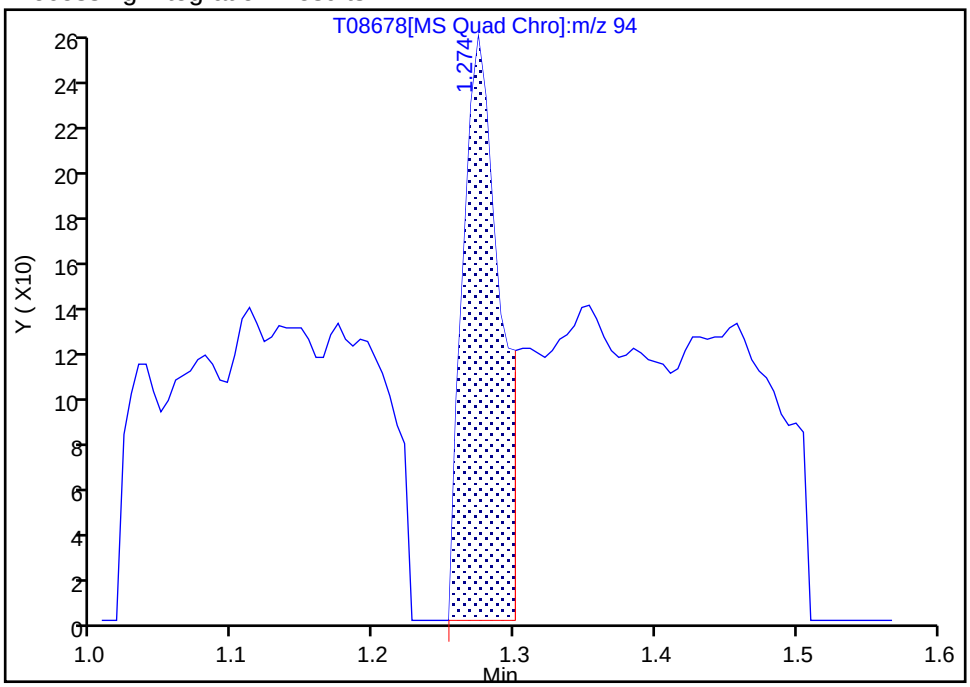
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D
Injection Date: 20-Jun-2018 21:36:45 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Signal: 1

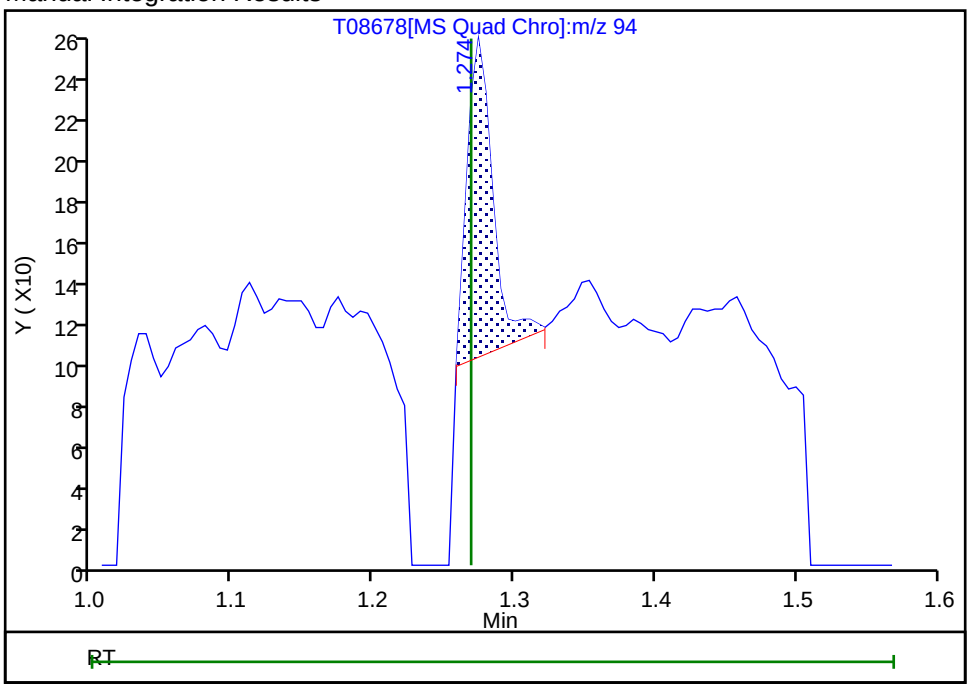
Processing Integration Results

RT: 1.27
Area: 480
Amount: 1.509240
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 196
Amount: 0.530952
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:29:24
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

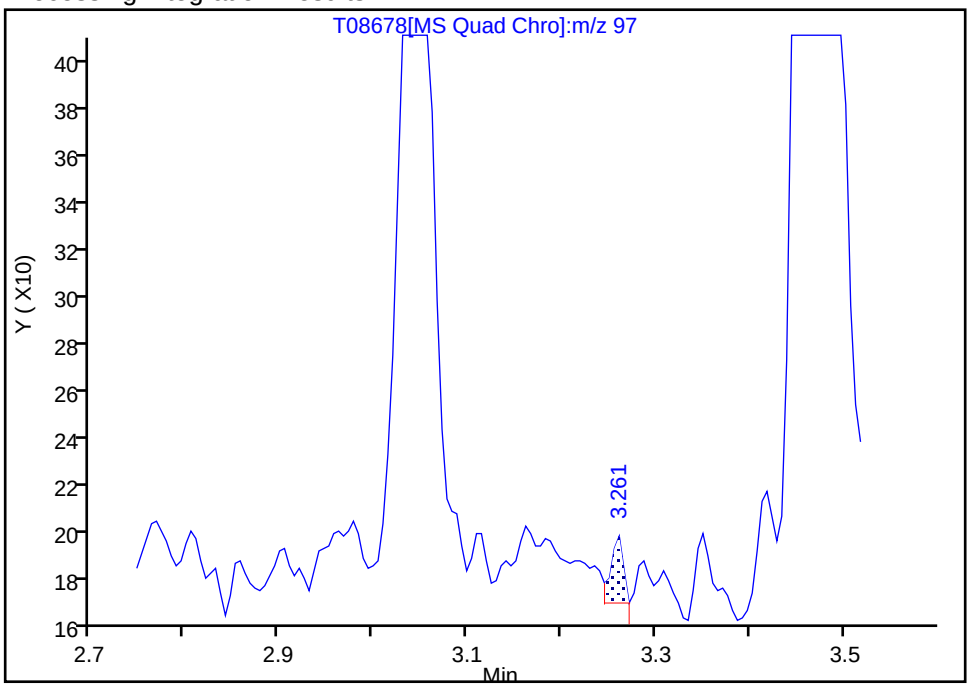
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D
Injection Date: 20-Jun-2018 21:36:45 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

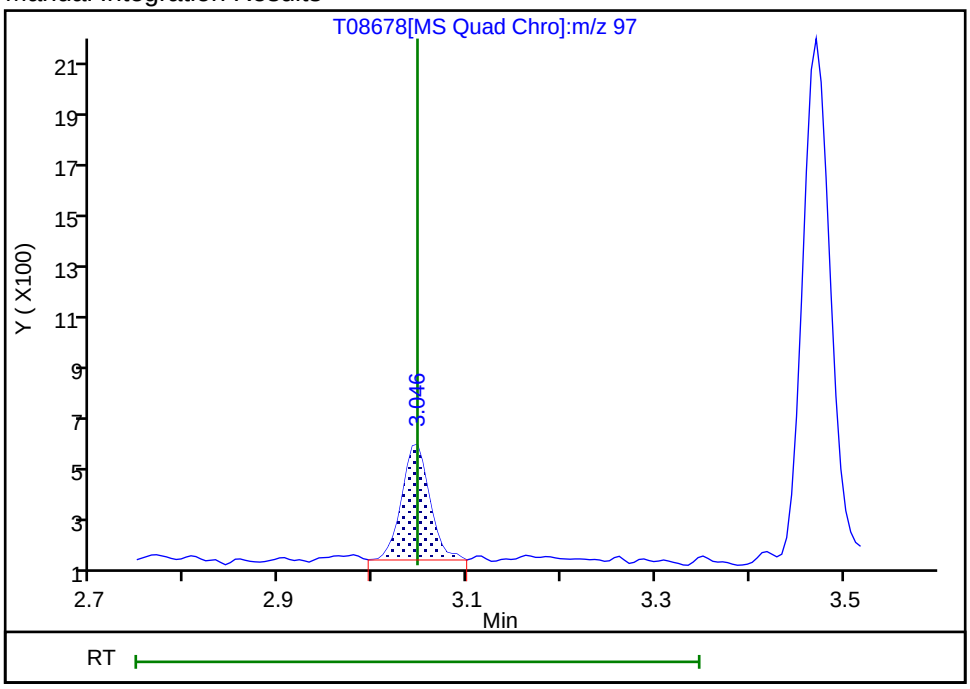
Processing Integration Results

RT: 3.26
Area: 25
Amount: 0.028071
Amount Units: ug/l



Manual Integration Results

RT: 3.05
Area: 910
Amount: 0.933946
Amount Units: ug/l



Reviewer: boykink, 20-Jun-2018 22:24:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

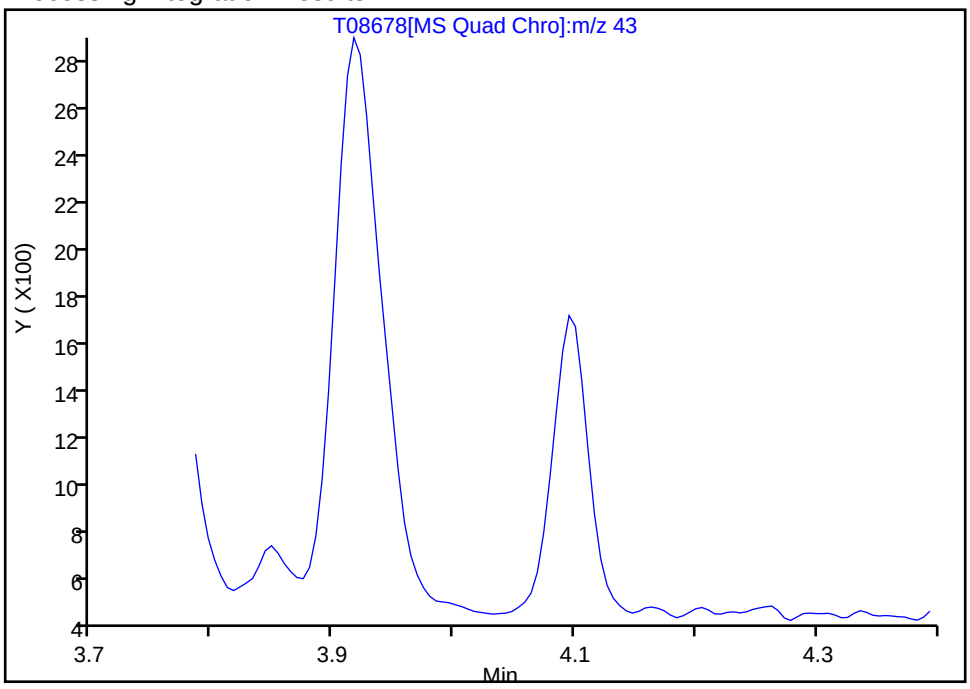
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08678.D
Injection Date: 20-Jun-2018 21:36:45 Instrument ID: CVOAMS15
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

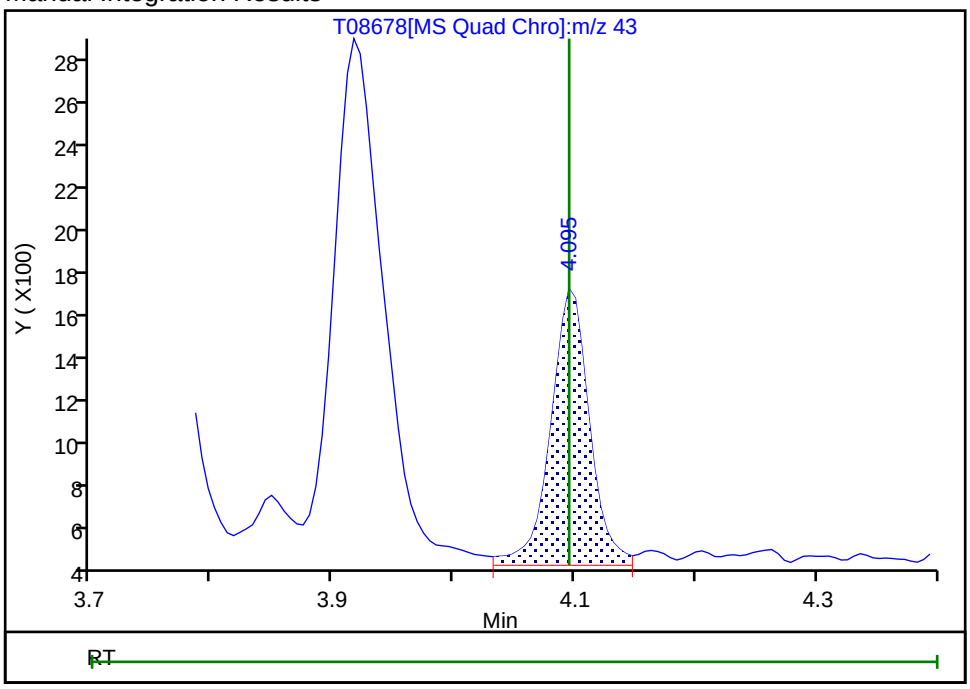
Not Detected
Expected RT: 4.10

Processing Integration Results



Manual Integration Results

RT: 4.10
Area: 2840
Amount: 1.135166
Amount Units: ug/l



Reviewer: boykink, 20-Jun-2018 22:24:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08679.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 20-Jun-2018 22:01:53 ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074090-005
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:08:40 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: desais Date: 21-Jun-2018 07:51:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	83	4544	5.00	4.25	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	88	13225	5.00	4.80	
3 Chloromethane	50	1.033	1.033	0.000	82	8494	5.00	4.40	
4 Vinyl chloride	62	1.090	1.090	0.000	94	9609	5.00	4.83	
5 Butadiene	54	1.111	1.111	0.000	93	9179	5.00	5.61	
6 Bromomethane	94	1.274	1.274	0.000	88	1317	5.00	3.52	M
7 Chloroethane	64	1.337	1.337	0.000	93	4516	5.00	8.66	
8 Dichlorofluoromethane	67	1.452	1.452	0.000	92	15094	5.00	5.24	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	85	18657	5.00	5.06	
10 Pentane	72	1.531	1.531	0.000	95	3893	10.0	9.51	
11 Ethanol	46	1.615	1.615	0.000	90	3082	200.0	235.0	
12 Ethyl ether	59	1.662	1.662	0.000	63	9878	5.00	5.26	
13 1,2-Dichloro-1,1,2-trifluo	117	1.667	1.667	0.000	81	10946	5.00	4.96	
14 2-Methyl-1,3-butadiene	53	1.672	1.672	0.000	83	9267	5.00	4.91	
15 Acrolein	56	1.735	1.735	0.000	94	4908	20.0	21.3	
16 1,1-Dichloroethene	96	1.798	1.798	0.000	89	11354	5.00	5.15	
17 1,1,2-Trichloro-1,2,2-trif	101	1.798	1.798	0.000	65	10510	5.00	4.78	
18 Acetone	43	1.835	1.835	0.000	87	16377	25.0	30.1	
19 Iodomethane	142	1.887	1.887	0.000	93	2981	5.00	1.43	
21 Carbon disulfide	76	1.935	1.935	0.000	100	33997	5.00	5.10	
20 Isopropyl alcohol	45	1.929	1.929	0.000	41	7727	50.0	53.4	
24 Acetonitrile	40	2.013	2.013	0.000	88	9526	50.0	52.8	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	93	9255	5.00	5.28	
23 Methyl acetate	43	2.045	2.045	0.000	98	17087	10.0	10.8	
25 Cyclopentene	67	2.081	2.081	0.000	97	27183	5.00	5.03	
26 Methylene Chloride	84	2.108	2.108	0.000	83	14100	5.00	5.27	
* 27 TBA-d9 (IS)	66	2.139	2.139	0.000	99	39085	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.197	2.197	0.000	96	13482	50.0	51.3	
29 Acrylonitrile	53	2.270	2.270	0.000	95	46117	50.0	52.9	
30 trans-1,2-Dichloroethene	96	2.291	2.291	0.000	81	13401	5.00	5.32	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	97	36480	5.00	5.52	
32 Hexane	57	2.496	2.496	0.000	92	14014	5.00	4.74	
33 1,1-Dichloroethane	63	2.595	2.595	0.000	94	22959	5.00	5.28	
34 Vinyl acetate	86	2.637	2.637	0.000	99	6184	10.0	10.2	
35 Isopropyl ether	45	2.658	2.658	0.000	83	37915	5.00	5.42	
36 2-Chloro-1,3-butadiene	88	2.663	2.663	0.000	73	12893	5.00	5.40	
37 Tert-butyl ethyl ether	59	2.941	2.941	0.000	90	37611	5.00	5.42	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	99	245734	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.046	3.046	0.000	83	15667	5.00	5.33	
39 2,2-Dichloropropane	97	3.046	3.046	0.000	79	5353	5.00	5.54	a
41 2-Butanone (MEK)	43	3.062	3.062	0.000	98	25474	25.0	25.7	
42 Propionitrile	54	3.109	3.109	0.000	97	18247	50.0	53.6	
43 Ethyl acetate	70	3.125	3.125	0.000	98	2793	10.0	9.34	
44 Methyl acrylate	55	3.151	3.151	0.000	95	11776	5.00	4.89	
45 Methacrylonitrile	67	3.235	3.235	0.000	90	54486	50.0	55.0	
46 Chlorobromomethane	128	3.240	3.240	0.000	45	6833	5.00	5.39	
47 Tetrahydrofuran	72	3.293	3.293	0.000	79	3494	10.0	9.82	
48 Chloroform	83	3.314	3.314	0.000	92	23141	5.00	5.30	
$ 49 Dibromofluoromethane (Surr	113	3.455	3.455	0.000	96	90376	50.0	49.9	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	52	20403	5.00	5.16	
51 Cyclohexane	84	3.523	3.523	0.000	89	17655	5.00	4.80	
52 Carbon tetrachloride	117	3.618	3.618	0.000	84	16612	5.00	4.96	
53 1,1-Dichloropropene	75	3.623	3.623	0.000	94	17960	5.00	5.34	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	100434	50.0	50.9	
54 Isobutyl alcohol	43	3.770	3.770	0.000	90	12319	125.0	131.7	
56 Benzene	78	3.806	3.806	0.000	96	55781	5.00	5.30	
57 1,2-Dichloroethane	62	3.827	3.827	0.000	67	17308	5.00	5.40	
58 Isooctane	57	3.901	3.901	0.000	98	26379	5.00	4.75	
59 Isopropyl acetate	61	3.917	3.917	0.000	93	4775	5.00	5.50	
60 Tert-amyl methyl ether	73	3.937	3.937	0.000	89	37098	5.00	5.39	
* 61 Fluorobenzene	96	4.079	4.079	0.000	99	439618	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	39	11243	5.00	4.53	a
63 n-Butanol	56	4.446	4.446	0.000	76	8998	125.0	133.4	
64 Trichloroethene	95	4.451	4.451	0.000	93	14520	5.00	5.21	
65 Ethyl acrylate	55	4.609	4.609	0.000	98	15469	5.00	5.05	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	18848	5.00	4.78	
67 1,2-Dichloropropane	63	4.687	4.687	0.000	87	13277	5.00	5.34	
* 68 1,4-Dioxane-d8	96	4.803	4.803	0.000	44	29096	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	56	8352	5.00	5.15	
71 Methyl methacrylate	100	4.860	4.860	0.000	87	7195	10.0	10.2	
70 1,4-Dioxane	88	4.860	4.860	0.000	31	3210	100.0	110.1	
72 n-Propyl acetate	43	4.944	4.944	0.000	96	15660	5.00	5.10	
73 Dichlorobromomethane	83	4.997	4.997	0.000	95	17299	5.00	5.14	
74 2-Nitropropane	41	5.269	5.269	0.000	92	5163	10.0	9.91	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	90	8230	5.00	5.19	
76 Epichlorohydrin	57	5.432	5.432	0.000	97	25331	100.0	103.3	
77 cis-1,3-Dichloropropene	75	5.531	5.531	0.000	85	21224	5.00	5.41	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	95	51430	25.0	26.7	
$ 79 Toluene-d8 (Surr)	98	5.851	5.851	0.000	100	340554	50.0	50.6	
80 Toluene	91	5.930	5.930	0.000	94	57234	5.00	5.30	
81 trans-1,3-Dichloropropene	75	6.244	6.244	0.000	92	18987	5.00	5.32	
82 Ethyl methacrylate	69	6.423	6.423	0.000	87	16445	5.00	5.34	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	93	9516	5.00	5.36	
84 Tetrachloroethene	166	6.638	6.638	0.000	96	14210	5.00	5.12	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	92	20189	5.00	5.46	
86 2-Hexanone	43	6.863	6.863	0.000	94	36749	25.0	26.7	
87 Chlorodibromomethane	129	6.978	6.978	0.000	92	12154	5.00	5.05	
88 n-Butyl acetate	43	7.089	7.089	0.000	96	17640	5.00	5.48	
89 Ethylene Dibromide	107	7.104	7.104	0.000	83	11756	5.00	5.16	
* 90 Chlorobenzene-d5	117	7.791	7.791	0.000	86	343804	50.0	50.0	
91 Chlorobenzene	112	7.833	7.833	0.000	94	36935	5.00	5.19	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	89	12377	5.00	5.12	
93 Ethylbenzene	106	8.038	8.038	0.000	98	21103	5.00	5.33	
94 m-Xylene & p-Xylene	106	8.221	8.221	0.000	96	25838	5.00	5.32	
95 o-Xylene	106	8.814	8.814	0.000	93	24875	5.00	5.34	
96 Styrene	104	8.840	8.840	0.000	92	42120	5.00	5.39	
97 n-Butyl acrylate	73	8.892	8.892	0.000	95	9880	5.00	5.40	
98 Bromoform	173	9.070	9.070	0.000	91	7089	5.00	4.85	
99 Amyl acetate (mixed isomer	43	9.285	9.285	0.000	92	20527	5.00	5.46	
100 Isopropylbenzene	105	9.422	9.422	0.000	95	61912	5.00	5.43	
$ 101 4-Bromofluorobenzene	174	9.626	9.626	0.000	0	115114	50.0	51.1	
102 Bromobenzene	156	9.815	9.815	0.000	95	14859	5.00	5.08	
103 1,1,2,2-Tetrachloroethane	83	9.936	9.936	0.000	92	14153	5.00	5.18	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	92	5059	5.00	5.39	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	82	3878	5.00	5.20	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	70564	5.00	5.36	
107 2-Chlorotoluene	91	10.166	10.166	0.000	94	42357	5.00	5.37	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	58414	5.00	5.30	
109 4-Chlorotoluene	91	10.355	10.355	0.000	98	44818	5.00	5.31	
110 1,3,5-Trimethylbenzene	105	10.402	10.402	0.000	92	47843	5.00	5.36	
111 Butyl Methacrylate	87	10.685	10.685	0.000	87	17057	5.00	5.28	
112 tert-Butylbenzene	119	10.921	10.921	0.000	93	40904	5.00	5.18	
118 1,2,4-Trimethylbenzene	105	11.005	11.005	0.000	97	48864	5.00	5.31	
113 sec-Butylbenzene	105	11.283	11.283	0.000	98	56556	5.00	5.20	
114 1,3-Dichlorobenzene	146	11.372	11.372	0.000	94	26394	5.00	5.13	
* 115 1,4-Dichlorobenzene-d4	152	11.482	11.482	0.000	96	180774	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	84	26578	5.00	5.15	
117 4-Isopropyltoluene	119	11.524	11.524	0.000	94	48209	5.00	5.28	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	49044	5.00	5.43	
119 Benzyl chloride	91	11.729	11.729	0.000	99	29176	5.00	5.30	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	47535	5.00	5.31	
121 1,2-Dichlorobenzene	146	11.996	11.996	0.000	94	24439	5.00	5.19	
122 p-Diethylbenzene	119	12.043	12.043	0.000	91	25012	5.00	5.17	
123 n-Butylbenzene	92	12.070	12.070	0.000	96	23072	5.00	5.24	
124 1,2-Dibromo-3-Chloropropan	155	12.903	12.903	0.000	73	2282	5.00	5.07	
125 1,2,4,5-Tetramethylbenzene	119	12.924	12.924	0.000	96	39735	5.00	5.30	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	96	14060	5.00	5.01	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	90	12315	5.00	4.97	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	69	4693	5.00	4.79	
129 Naphthalene	128	13.926	13.926	0.000	99	37167	5.00	5.17	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	93	11083	5.00	5.01	
S 131 1,2-Dichloroethene, Total	100				0		10.0	10.6	
S 132 Xylenes, Total	100				0		10.0	10.7	
S 133 Total BTEX	1				0		25.0	26.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		10.0	10.7	
S 134 Total 1,2-dichloroethene	1				0			10.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL	
GAS Hi_00260	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:08:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08679.D

Injection Date: 20-Jun-2018 22:01:53 Instrument ID: CVOAMS15

Lims ID: STD5

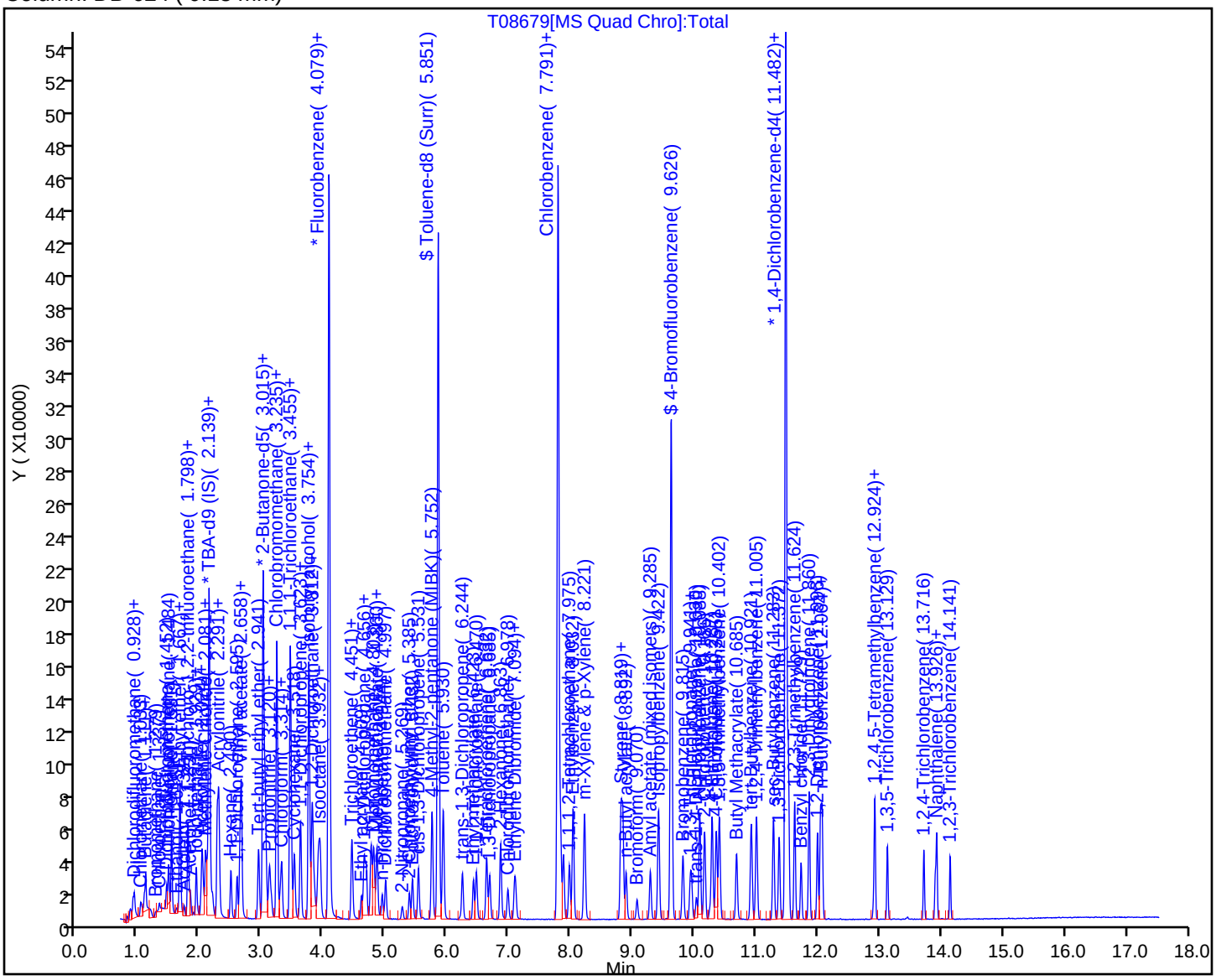
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 5

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

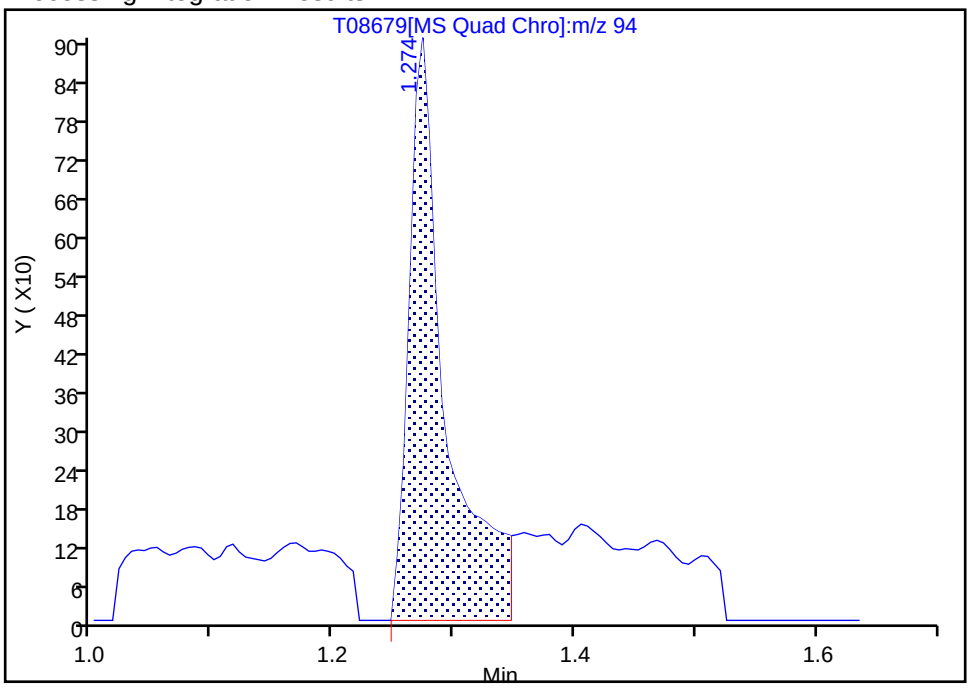
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08679.D
Injection Date: 20-Jun-2018 22:01:53 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Signal: 1

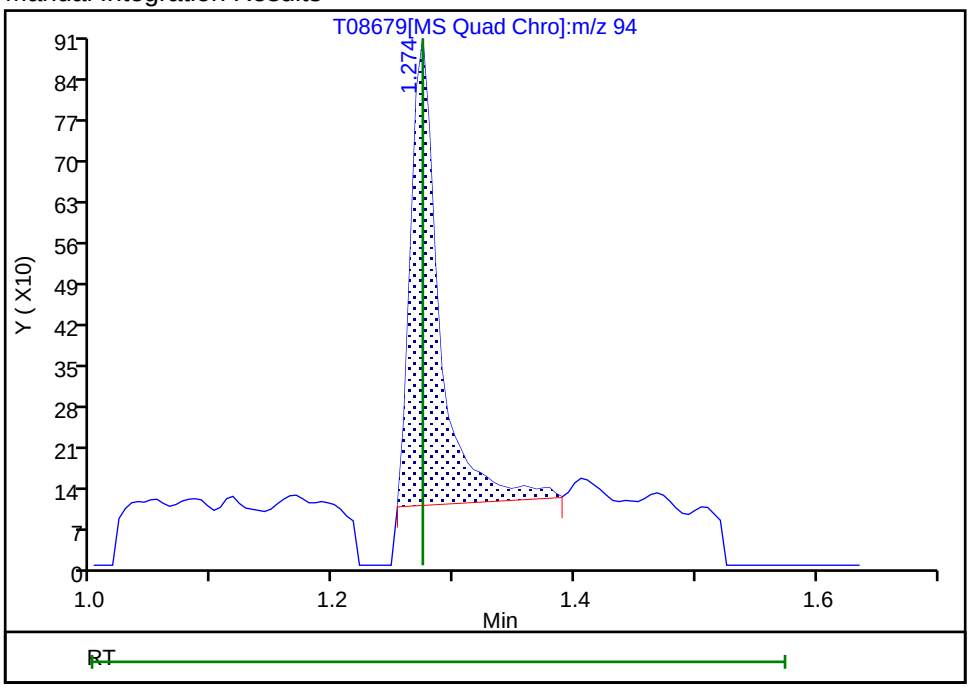
Processing Integration Results

RT: 1.27
Area: 1908
Amount: 5.937808
Amount Units: ug/l



Manual Integration Results

RT: 1.27
Area: 1317
Amount: 3.518152
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:30:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

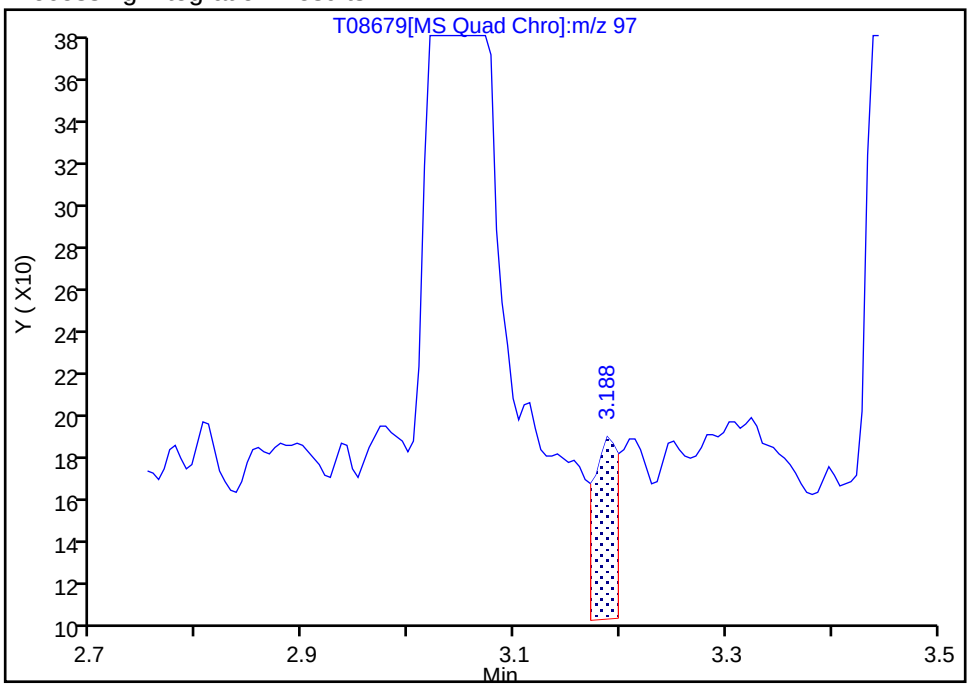
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08679.D
Injection Date: 20-Jun-2018 22:01:53 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

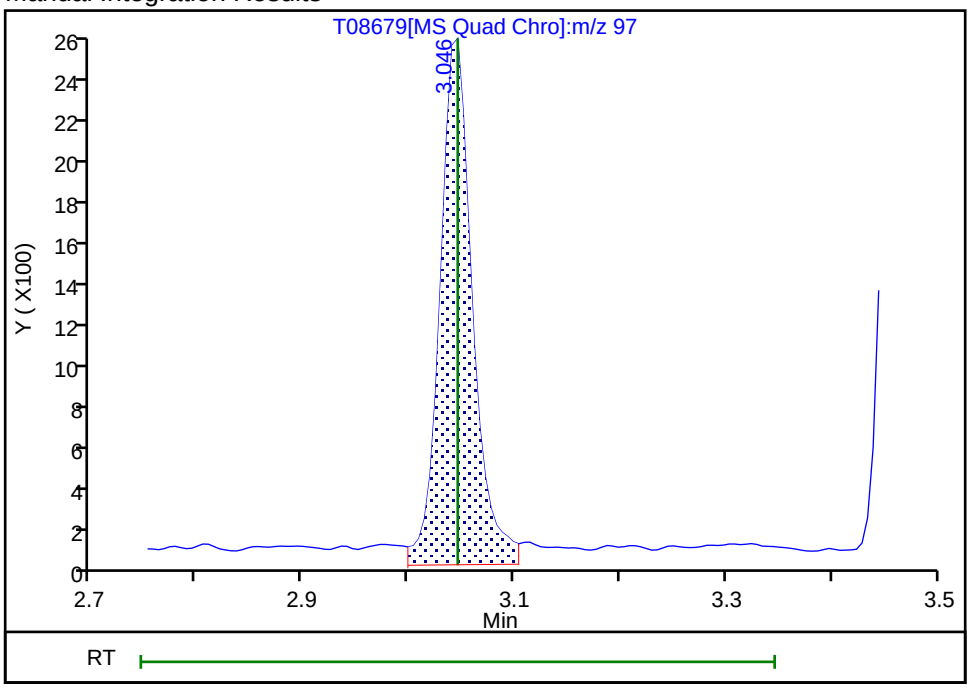
Processing Integration Results

RT: 3.19
Area: 143
Amount: 0.146283
Amount Units: ug/l



Manual Integration Results

RT: 3.05
Area: 5353
Amount: 5.539460
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:17:08
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

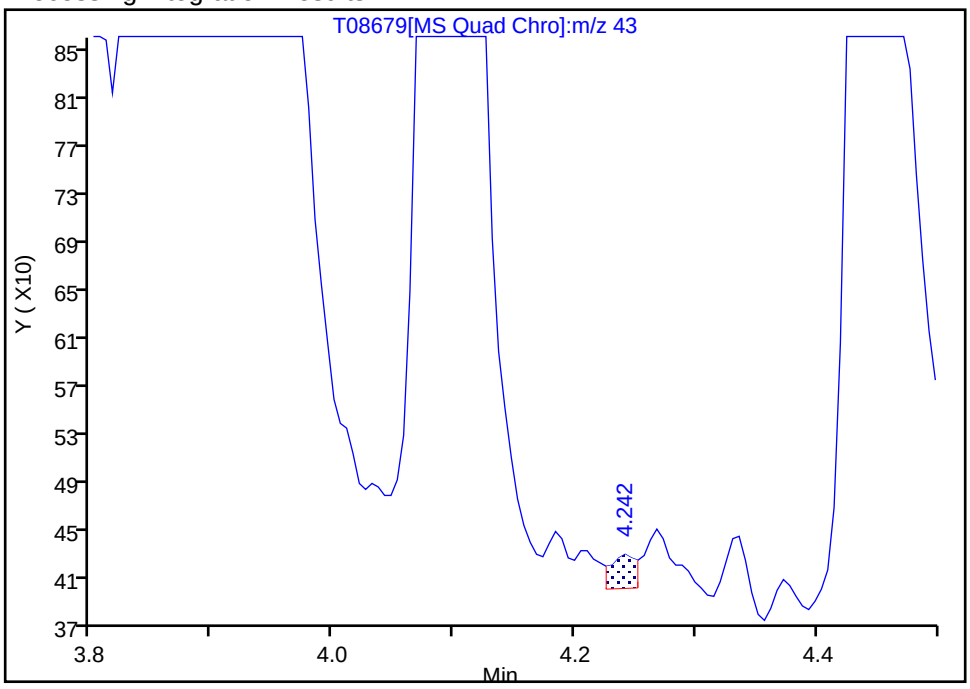
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08679.D
Injection Date: 20-Jun-2018 22:01:53 Instrument ID: CVOAMS15
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

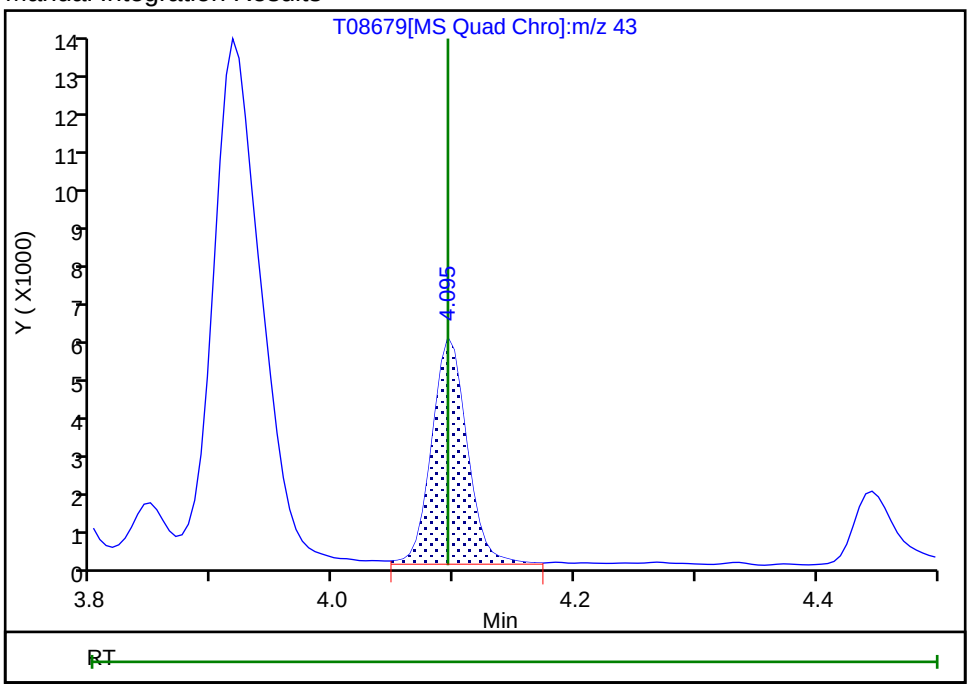
Processing Integration Results

RT: 4.24
Area: 44
Amount: 0.017537
Amount Units: ug/l



Manual Integration Results

RT: 4.09
Area: 11243
Amount: 4.531200
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:17:20
Audit Action: Assigned Compound ID Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08680.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 20-Jun-2018 22:27:06 ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074090-006
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:08:56 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: baronm Date: 22-Jun-2018 17:29:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	92	19426	20.0	18.3	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	88	48816	20.0	17.8	
3 Chloromethane	50	1.033	1.033	0.000	88	32522	20.0	16.9	
4 Vinyl chloride	62	1.091	1.091	0.000	83	37147	20.0	18.8	
5 Butadiene	54	1.112	1.112	0.000	92	31136	20.0	19.1	
6 Bromomethane	94	1.269	1.269	0.000	95	7127	20.0	18.8	
7 Chloroethane	64	1.332	1.332	0.000	99	13360	20.0	25.2	
8 Dichlorofluoromethane	67	1.453	1.453	0.000	98	55313	20.0	19.3	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	99	70339	20.0	19.2	
10 Pentane	72	1.531	1.531	0.000	96	15606	40.0	38.3	
11 Ethanol	46	1.615	1.615	0.000	97	10855	800.0	814.6	
12 Ethyl ether	59	1.662	1.662	0.000	61	36734	20.0	19.7	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	88	40743	20.0	18.6	
14 2-Methyl-1,3-butadiene	53	1.673	1.673	0.000	83	35481	20.0	18.9	
15 Acrolein	56	1.736	1.736	0.000	96	9447	40.0	39.8	
16 1,1-Dichloroethene	96	1.793	1.793	0.000	98	42847	20.0	19.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	72	41763	20.0	19.1	
18 Acetone	43	1.835	1.835	0.000	88	58278	100.0	105.3	
19 Iodomethane	142	1.888	1.888	0.000	98	19065	20.0	9.21	
21 Carbon disulfide	76	1.930	1.930	0.000	99	122549	20.0	18.5	
20 Isopropyl alcohol	45	1.935	1.935	0.000	40	29510	200.0	200.1	
24 Acetonitrile	40	2.014	2.014	0.000	88	34938	200.0	190.9	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	94	34739	20.0	19.9	
23 Methyl acetate	43	2.045	2.045	0.000	98	64307	40.0	41.0	
25 Cyclopentene	67	2.082	2.082	0.000	97	101338	20.0	18.8	
26 Methylene Chloride	84	2.108	2.108	0.000	88	49686	20.0	18.7	
* 27 TBA-d9 (IS)	66	2.139	2.139	0.000	99	40283	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.197	2.197	0.000	99	49672	200.0	185.1	
29 Acrylonitrile	53	2.271	2.271	0.000	95	173596	200.0	200.2	
30 trans-1,2-Dichloroethene	96	2.292	2.292	0.000	88	49427	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	96	137742	20.0	21.0	
32 Hexane	57	2.491	2.491	0.000	91	57630	20.0	19.6	
33 1,1-Dichloroethane	63	2.590	2.590	0.000	100	84266	20.0	19.5	
34 Vinyl acetate	86	2.638	2.638	0.000	99	23893	40.0	39.0	
35 Isopropyl ether	45	2.659	2.659	0.000	84	142147	20.0	20.4	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	72	48047	20.0	20.2	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	90	142886	20.0	20.7	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	98	249193	250.0	250.0	
39 2,2-Dichloropropane	97	3.047	3.047	0.000	78	18100	20.0	18.8	
40 cis-1,2-Dichloroethene	96	3.047	3.047	0.000	97	57181	20.0	19.5	
41 2-Butanone (MEK)	43	3.062	3.062	0.000	98	91849	100.0	91.3	
42 Propionitrile	54	3.109	3.109	0.000	99	68673	200.0	195.9	
43 Ethyl acetate	70	3.125	3.125	0.000	99	11084	40.0	36.6	
44 Methyl acrylate	55	3.146	3.146	0.000	92	45812	20.0	19.1	
45 Methacrylonitrile	67	3.235	3.235	0.000	89	204195	200.0	207.1	
46 Chlorobromomethane	128	3.241	3.241	0.000	45	25313	20.0	20.1	
47 Tetrahydrofuran	72	3.293	3.293	0.000	84	13168	40.0	36.5	
48 Chloroform	83	3.314	3.314	0.000	99	85947	20.0	19.8	
$ 49 Dibromofluoromethane (Surr	113	3.456	3.456	0.000	96	88741	50.0	49.2	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	96	75855	20.0	19.3	
51 Cyclohexane	84	3.518	3.518	0.000	89	69441	20.0	19.0	
52 Carbon tetrachloride	117	3.618	3.618	0.000	95	63965	20.0	19.2	
53 1,1-Dichloropropene	75	3.623	3.623	0.000	97	66794	20.0	20.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	98312	50.0	50.1	
54 Isobutyl alcohol	43	3.770	3.770	0.000	85	48566	500.0	503.6	
56 Benzene	78	3.807	3.807	0.000	95	203779	20.0	19.3	
57 1,2-Dichloroethane	62	3.828	3.828	0.000	74	62186	20.0	19.5	
58 Isooctane	57	3.901	3.901	0.000	99	108085	20.0	19.6	
59 Isopropyl acetate	61	3.917	3.917	0.000	94	18533	20.0	21.5	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	90	141607	20.0	20.7	
* 61 Fluorobenzene	96	4.079	4.079	0.000	98	437256	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	49	46434	20.0	18.8	a
63 n-Butanol	56	4.441	4.441	0.000	86	35485	500.0	510.3	
64 Trichloroethene	95	4.452	4.452	0.000	99	52638	20.0	19.0	
65 Ethyl acrylate	55	4.609	4.609	0.000	99	60683	20.0	19.9	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	75928	20.0	19.4	
67 1,2-Dichloropropane	63	4.688	4.688	0.000	90	49605	20.0	20.1	
* 68 1,4-Dioxane-d8	96	4.803	4.803	0.000	29	29673	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	97	30863	20.0	19.1	
70 1,4-Dioxane	88	4.861	4.861	0.000	33	12275	400.0	412.9	
71 Methyl methacrylate	100	4.861	4.861	0.000	86	28337	40.0	40.5	
72 n-Propyl acetate	43	4.945	4.945	0.000	97	61605	20.0	20.2	
73 Dichlorobromomethane	83	4.997	4.997	0.000	96	66134	20.0	19.7	
74 2-Nitropropane	41	5.270	5.270	0.000	95	20733	40.0	40.0	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	96	31797	20.0	20.2	
76 Epichlorohydrin	57	5.432	5.432	0.000	98	98625	400.0	396.4	
77 cis-1,3-Dichloropropene	75	5.532	5.532	0.000	90	80642	20.0	20.5	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	94	197299	100.0	101.1	
$ 79 Toluene-d8 (Surr)	98	5.852	5.852	0.000	99	338871	50.0	50.2	
80 Toluene	91	5.930	5.930	0.000	94	212112	20.0	19.6	
81 trans-1,3-Dichloropropene	75	6.245	6.245	0.000	93	73024	20.0	20.4	
82 Ethyl methacrylate	69	6.423	6.423	0.000	88	62681	20.0	20.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	95	36315	20.0	20.4	
84 Tetrachloroethene	166	6.638	6.638	0.000	98	53767	20.0	19.3	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	91	76645	20.0	20.7	
86 2-Hexanone	43	6.858	6.858	0.000	94	138877	100.0	99.4	
87 Chlorodibromomethane	129	6.979	6.979	0.000	96	47674	20.0	19.7	
88 n-Butyl acetate	43	7.084	7.084	0.000	98	66538	20.0	20.6	
89 Ethylene Dibromide	107	7.105	7.105	0.000	93	45077	20.0	19.7	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	85	345123	50.0	50.0	
91 Chlorobenzene	112	7.834	7.834	0.000	95	138735	20.0	19.4	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	96	48372	20.0	20.0	
93 Ethylbenzene	106	8.038	8.038	0.000	98	77596	20.0	19.5	
94 m-Xylene & p-Xylene	106	8.222	8.222	0.000	96	96435	20.0	19.8	
95 o-Xylene	106	8.814	8.814	0.000	94	93581	20.0	20.0	
96 Styrene	104	8.840	8.840	0.000	93	159656	20.0	20.3	
97 n-Butyl acrylate	73	8.893	8.893	0.000	98	37948	20.0	20.7	
98 Bromoform	173	9.071	9.071	0.000	95	28564	20.0	19.5	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	92	78664	20.0	21.0	
100 Isopropylbenzene	105	9.422	9.422	0.000	96	228626	20.0	20.0	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	112916	50.0	50.0	
102 Bromobenzene	156	9.815	9.815	0.000	98	56797	20.0	19.5	
103 1,1,2,2-Tetrachloroethane	83	9.936	9.936	0.000	92	54292	20.0	19.9	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	94	17755	20.0	19.0	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	92	14007	20.0	18.8	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	265482	20.0	20.2	
107 2-Chlorotoluene	91	10.167	10.167	0.000	96	158501	20.0	20.1	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	220366	20.0	20.0	
109 4-Chlorotoluene	91	10.355	10.355	0.000	97	169745	20.0	20.2	
110 1,3,5-Trimethylbenzene	105	10.403	10.403	0.000	92	178230	20.0	20.0	
111 Butyl Methacrylate	87	10.686	10.686	0.000	87	66123	20.0	20.5	
112 tert-Butylbenzene	119	10.922	10.922	0.000	94	153645	20.0	19.5	
118 1,2,4-Trimethylbenzene	105	11.006	11.006	0.000	97	183426	20.0	20.0	
113 sec-Butylbenzene	105	11.283	11.283	0.000	98	215185	20.0	19.9	
114 1,3-Dichlorobenzene	146	11.373	11.373	0.000	95	100465	20.0	19.6	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.483	0.000	95	180252	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	92	102084	20.0	19.9	
117 4-Isopropyltoluene	119	11.525	11.525	0.000	95	181867	20.0	20.0	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	184245	20.0	20.5	
119 Benzyl chloride	91	11.729	11.729	0.000	99	113648	20.0	20.7	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	181335	20.0	20.3	
121 1,2-Dichlorobenzene	146	11.997	11.997	0.000	95	93344	20.0	19.9	
122 p-Diethylbenzene	119	12.044	12.044	0.000	92	95874	20.0	19.9	
123 n-Butylbenzene	92	12.070	12.070	0.000	97	87484	20.0	19.9	
124 1,2-Dibromo-3-Chloropropan	155	12.904	12.904	0.000	89	8913	20.0	19.8	
125 1,2,4,5-Tetramethylbenzene	119	12.925	12.925	0.000	96	150538	20.0	20.1	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	96	54964	20.0	19.6	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	92	49099	20.0	19.9	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	75	18690	20.0	19.1	
129 Naphthalene	128	13.926	13.926	0.000	99	151239	20.0	21.1	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	95	44038	20.0	19.9	
S 131 1,2-Dichloroethene, Total	100				0		40.0	39.3	
S 132 Xylenes, Total	100				0		40.0	39.8	
S 136 1,3-Dichloropropene, Total	1				0		40.0	40.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 133 Total BTEX	1				0		100.0	98.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	4.00	Units: uL		
GAS Hi_00260	Amount Added:	2.00	Units: uL		
MIX 2 Hi_00071	Amount Added:	2.00	Units: uL		
Ethanol mix_00016	Amount Added:	2.00	Units: uL		
MIX I Hi_00095	Amount Added:	2.00	Units: uL		
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent	
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent	

Report Date: 22-Jun-2018 18:08:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08680.D

Injection Date: 20-Jun-2018 22:27:06 Instrument ID: CVOAMS15

Lims ID: STD20

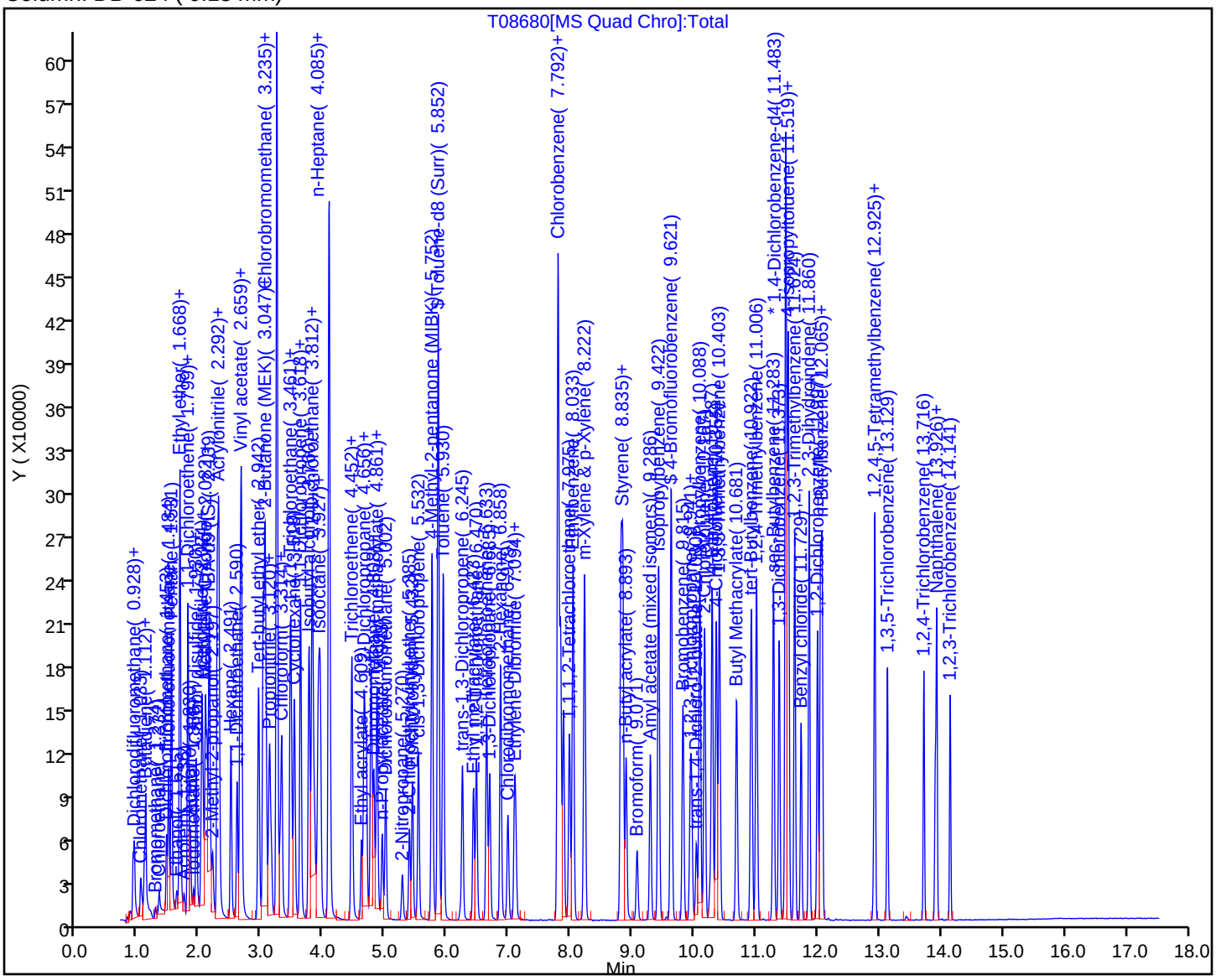
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 6

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

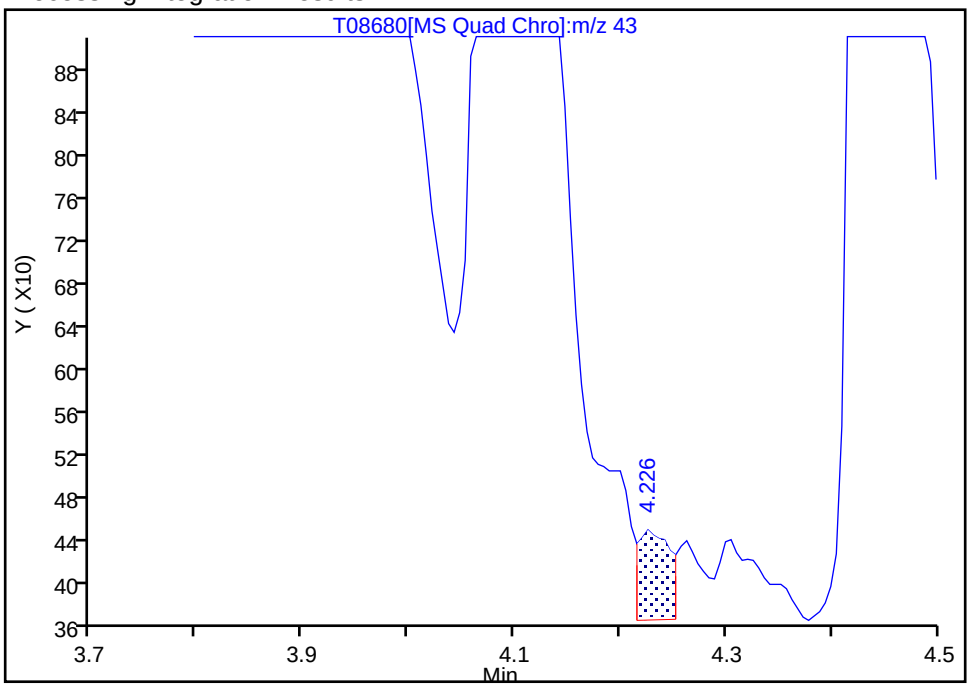
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08680.D
Injection Date: 20-Jun-2018 22:27:06 Instrument ID: CVOAMS15
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

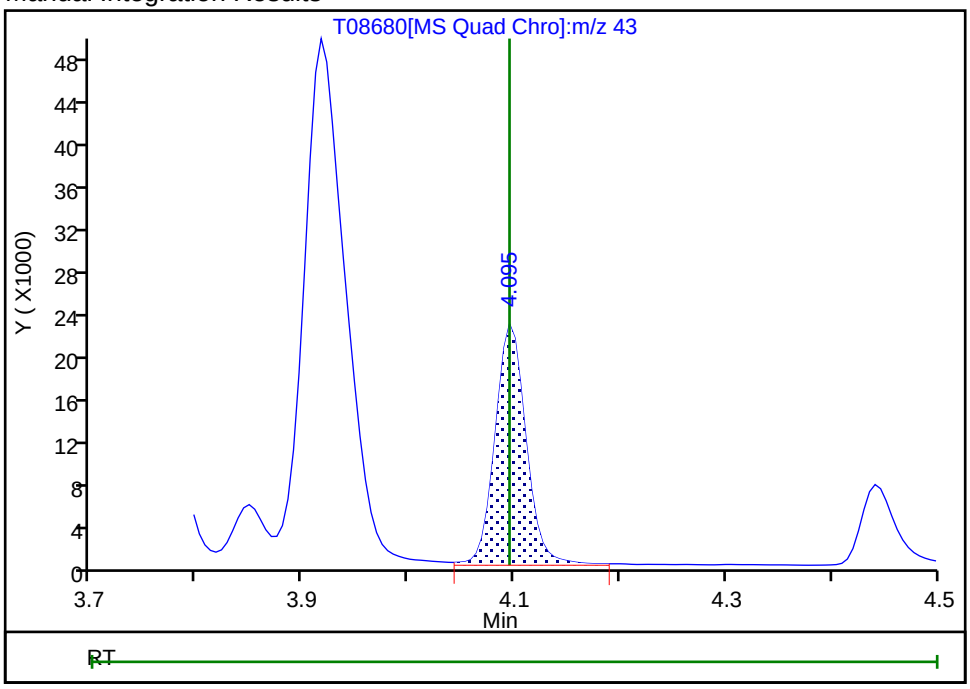
Processing Integration Results

RT: 4.23
Area: 181
Amount: 0.074031
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 46434
Amount: 18.815113
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:23:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08681.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 20-Jun-2018 22:52:17 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074090-007
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:09:09 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: desais Date: 21-Jun-2018 07:43:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	87	51379	50.0	49.2	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	121174	50.0	45.0	
3 Chloromethane	50	1.033	1.033	0.000	99	77966	50.0	41.3	
4 Vinyl chloride	62	1.091	1.091	0.000	98	91822	50.0	47.2	
5 Butadiene	54	1.112	1.112	0.000	92	74502	50.0	46.6	
6 Bromomethane	94	1.269	1.269	0.000	97	13573	50.0	36.8	
7 Chloroethane	64	1.327	1.332	-0.005	99	24260	50.0	47.0	
8 Dichlorofluoromethane	67	1.447	1.453	-0.006	99	133197	50.0	47.3	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	99	172014	50.0	47.8	
10 Pentane	72	1.531	1.531	0.000	96	39576	100.0	98.9	
11 Ethanol	46	1.620	1.615	0.005	98	25650	2000.0	1936.1	
12 Ethyl ether	59	1.662	1.662	0.000	58	88815	50.0	48.4	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	88	104443	50.0	48.4	
14 2-Methyl-1,3-butadiene	53	1.673	1.673	0.000	82	86544	50.0	46.9	
15 Acrolein	56	1.736	1.736	0.000	96	22970	100.0	94.5	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	77	108428	50.0	50.5	
16 1,1-Dichloroethene	96	1.793	1.793	0.000	97	109596	50.0	50.9	
18 Acetone	43	1.835	1.835	0.000	88	140821	250.0	260.2	
19 Iodomethane	142	1.888	1.888	0.000	98	71756	50.0	35.6	
20 Isopropyl alcohol	45	1.940	1.935	0.005	40	72043	500.0	487.6	
21 Carbon disulfide	76	1.930	1.930	0.000	99	308197	50.0	47.3	
24 Acetonitrile	40	2.014	2.014	0.000	88	84942	500.0	477.9	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	95	87952	50.0	51.3	
23 Methyl acetate	43	2.045	2.045	0.000	98	155113	100.0	100.6	
25 Cyclopentene	67	2.082	2.082	0.000	96	265767	50.0	50.3	
26 Methylene Chloride	84	2.108	2.108	0.000	88	124456	50.0	47.6	
* 27 TBA-d9 (IS)	66	2.145	2.139	0.006	99	41208	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.202	2.197	0.005	99	122029	500.0	453.5	
29 Acrylonitrile	53	2.276	2.271	0.005	95	412862	500.0	484.7	
30 trans-1,2-Dichloroethene	96	2.291	2.292	-0.001	90	125484	50.0	51.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	96	334854	50.0	51.9	
32 Hexane	57	2.491	2.491	0.000	90	145820	50.0	50.5	
33 1,1-Dichloroethane	63	2.590	2.590	0.000	100	207329	50.0	48.8	
34 Vinyl acetate	86	2.637	2.638	-0.001	99	59182	100.0	99.6	
35 Isopropyl ether	45	2.658	2.659	-0.001	83	340446	50.0	49.8	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	74	120933	50.0	51.9	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	90	350156	50.0	51.6	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	98	241964	250.0	250.0	a
40 cis-1,2-Dichloroethene	96	3.046	3.047	-0.001	97	143124	50.0	49.8	
39 2,2-Dichloropropane	97	3.046	3.047	-0.001	77	44547	50.0	47.2	
41 2-Butanone (MEK)	43	3.067	3.062	0.005	98	228227	250.0	233.7	
42 Propionitrile	54	3.109	3.109	0.000	99	166603	500.0	464.5	
43 Ethyl acetate	70	3.125	3.125	0.000	100	27561	100.0	93.6	
44 Methyl acrylate	55	3.151	3.146	0.005	96	114320	50.0	48.6	
45 Methacrylonitrile	67	3.240	3.235	0.005	87	487845	500.0	503.6	
46 Chlorobromomethane	128	3.240	3.241	-0.001	45	61520	50.0	49.6	
47 Tetrahydrofuran	72	3.293	3.293	0.000	84	32325	100.0	92.3	
48 Chloroform	83	3.319	3.314	0.005	100	212004	50.0	49.7	
$ 49 Dibromofluoromethane (Surr	113	3.455	3.456	-0.001	96	88173	50.0	49.8	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	96	188885	50.0	48.9	
51 Cyclohexane	84	3.518	3.518	0.000	88	178107	50.0	49.6	
52 Carbon tetrachloride	117	3.618	3.618	0.000	96	161564	50.0	49.4	
53 1,1-Dichloropropene	75	3.623	3.623	0.000	97	166048	50.0	50.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	96366	50.0	50.0	
54 Isobutyl alcohol	43	3.770	3.770	0.000	60	120796	1250.0	1224.6	
56 Benzene	78	3.807	3.807	0.000	95	499786	50.0	47.1	
57 1,2-Dichloroethane	62	3.828	3.828	0.000	71	149257	50.0	47.7	
58 Isooctane	57	3.901	3.901	0.000	100	281749	50.0	51.9	
59 Isopropyl acetate	61	3.917	3.917	0.000	94	46302	50.0	54.6	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	88	350726	50.0	52.2	
* 61 Fluorobenzene	96	4.079	4.079	0.000	98	429526	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	68	118094	50.0	48.7	a
63 n-Butanol	56	4.441	4.441	0.000	85	88384	1250.0	1242.6	
64 Trichloroethene	95	4.452	4.452	0.000	99	129951	50.0	47.7	
65 Ethyl acrylate	55	4.609	4.609	0.000	99	151132	50.0	50.5	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	194821	50.0	50.6	
67 1,2-Dichloropropane	63	4.688	4.688	0.000	90	121900	50.0	50.2	
* 68 1,4-Dioxane-d8	96	4.808	4.803	0.005	18	29683	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	97	75835	50.0	47.8	
71 Methyl methacrylate	100	4.861	4.861	0.000	86	71705	100.0	104.5	
70 1,4-Dioxane	88	4.861	4.861	0.000	33	31436	1000.0	1057.0	
72 n-Propyl acetate	43	4.944	4.945	-0.001	97	154576	50.0	51.5	
73 Dichlorobromomethane	83	5.002	4.997	0.005	99	163806	50.0	49.8	
74 2-Nitropropane	41	5.270	5.270	0.000	95	51358	100.0	100.9	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	96	79530	50.0	51.4	
76 Epichlorohydrin	57	5.432	5.432	0.000	98	244200	1000.0	1010.9	
77 cis-1,3-Dichloropropene	75	5.532	5.532	0.000	90	200223	50.0	50.7	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	94	491105	250.0	259.1	
$ 79 Toluene-d8 (Surr)	98	5.852	5.852	0.000	99	343938	50.0	50.7	
80 Toluene	91	5.935	5.930	0.005	94	533783	50.0	49.0	
81 trans-1,3-Dichloropropene	75	6.245	6.245	0.000	95	182380	50.0	50.8	
82 Ethyl methacrylate	69	6.423	6.423	0.000	87	156222	50.0	50.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	96	89645	50.0	50.2	
84 Tetrachloroethene	166	6.638	6.638	0.000	98	138134	50.0	49.4	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	92	188005	50.0	50.5	
86 2-Hexanone	43	6.863	6.858	0.005	94	341233	250.0	251.6	
87 Chlorodibromomethane	129	6.979	6.979	0.000	97	121426	50.0	50.1	
88 n-Butyl acetate	43	7.089	7.084	0.005	98	166301	50.0	51.3	
89 Ethylene Dibromide	107	7.105	7.105	0.000	91	113039	50.0	49.3	
* 90 Chlorobenzene-d5	117	7.791	7.792	-0.001	86	346417	50.0	50.0	
91 Chlorobenzene	112	7.833	7.834	-0.001	95	351486	50.0	49.0	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	96	123007	50.0	50.5	
93 Ethylbenzene	106	8.038	8.038	0.000	97	195415	50.0	49.0	
94 m-Xylene & p-Xylene	106	8.221	8.222	-0.001	96	239316	50.0	48.9	
95 o-Xylene	106	8.814	8.814	0.000	94	231474	50.0	49.3	
96 Styrene	104	8.840	8.840	0.000	93	396584	50.0	50.3	
97 n-Butyl acrylate	73	8.893	8.893	-0.001	98	93797	50.0	50.9	
98 Bromoform	173	9.071	9.071	0.000	95	75583	50.0	51.3	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	92	195432	50.0	52.0	
100 Isopropylbenzene	105	9.422	9.422	0.000	95	567986	50.0	49.4	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	111595	50.0	49.2	
102 Bromobenzene	156	9.815	9.815	0.000	99	142123	50.0	48.6	
103 1,1,2,2-Tetrachloroethane	83	9.936	9.936	0.000	96	137941	50.0	50.5	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	94	43788	50.0	46.6	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	93	35749	50.0	48.0	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	660925	50.0	50.2	
107 2-Chlorotoluene	91	10.167	10.167	0.000	96	392332	50.0	49.7	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	550285	50.0	49.9	
109 4-Chlorotoluene	91	10.355	10.355	0.000	97	420422	50.0	49.8	
110 1,3,5-Trimethylbenzene	105	10.408	10.403	0.005	93	443793	50.0	49.7	
111 Butyl Methacrylate	87	10.686	10.686	0.000	86	164319	50.0	50.9	
112 tert-Butylbenzene	119	10.922	10.922	0.000	91	386014	50.0	48.9	
118 1,2,4-Trimethylbenzene	105	11.005	11.006	-0.001	97	456238	50.0	49.6	
113 sec-Butylbenzene	105	11.283	11.283	0.000	98	542529	50.0	49.9	
114 1,3-Dichlorobenzene	146	11.372	11.373	-0.001	95	253710	50.0	49.3	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.483	0.000	95	180743	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	94	259741	50.0	50.4	
117 4-Isopropyltoluene	119	11.525	11.525	0.000	95	459286	50.0	50.3	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	456980	50.0	50.6	
119 Benzyl chloride	91	11.729	11.729	0.000	99	285762	50.0	51.9	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	454275	50.0	50.8	
121 1,2-Dichlorobenzene	146	11.996	11.997	-0.001	96	236155	50.0	50.1	
122 p-Diethylbenzene	119	12.044	12.044	0.000	93	241356	50.0	49.9	
123 n-Butylbenzene	92	12.070	12.070	0.000	96	220447	50.0	50.1	
124 1,2-Dibromo-3-Chloropropan	155	12.903	12.904	-0.001	94	23451	50.0	52.1	
125 1,2,4,5-Tetramethylbenzene	119	12.924	12.925	-0.001	97	380526	50.0	50.8	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	141205	50.0	50.3	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	94	129067	50.0	52.1	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	77	48887	50.0	49.9	
129 Naphthalene	128	13.926	13.926	0.000	99	390564	50.0	54.3	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	95	115124	50.0	52.0	
S 131 1,2-Dichloroethene, Total	100				0		100.0	100.8	
S 132 Xylenes, Total	100				0		100.0	98.2	
S 133 Total BTEX	1				0		250.0	243.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		100.0	101.5	
S 134 Total 1,2-dichloroethene	1				0			100.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added: 10.00	Units: uL	
GAS Hi_00260	Amount Added: 5.00	Units: uL	
MIX 2 Hi_00071	Amount Added: 5.00	Units: uL	
Ethanol mix_00016	Amount Added: 5.00	Units: uL	
MIX I Hi_00095	Amount Added: 5.00	Units: uL	
VOA6IS ONLY_00008	Amount Added: 5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added: 5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:09:11 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08681.D

Injection Date: 20-Jun-2018 22:52:17 Instrument ID: CVOAMS15

Lims ID: STD50

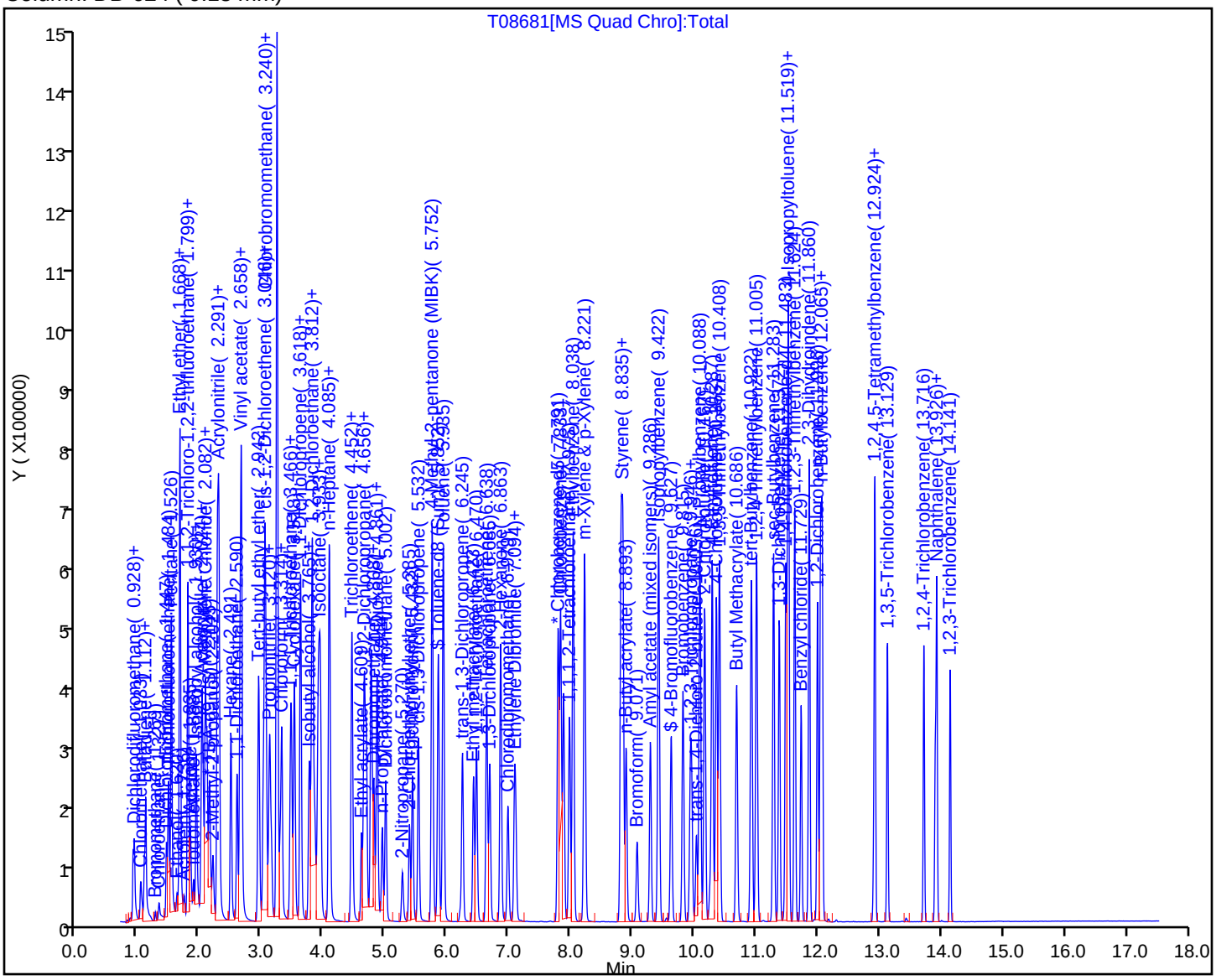
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

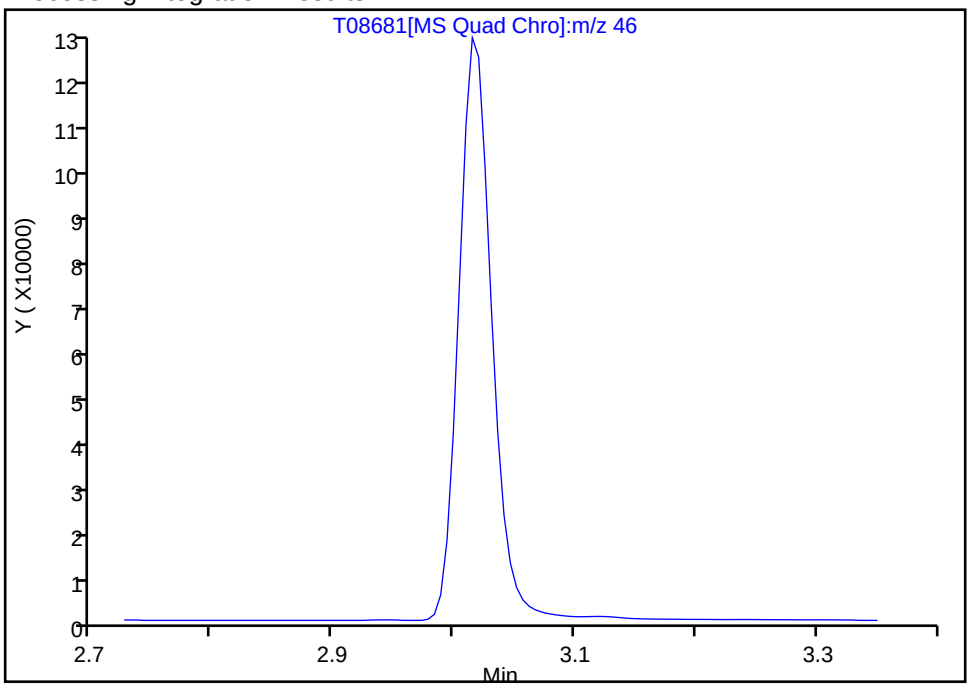
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08681.D
Injection Date: 20-Jun-2018 22:52:17 Instrument ID: CVOAMS15
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

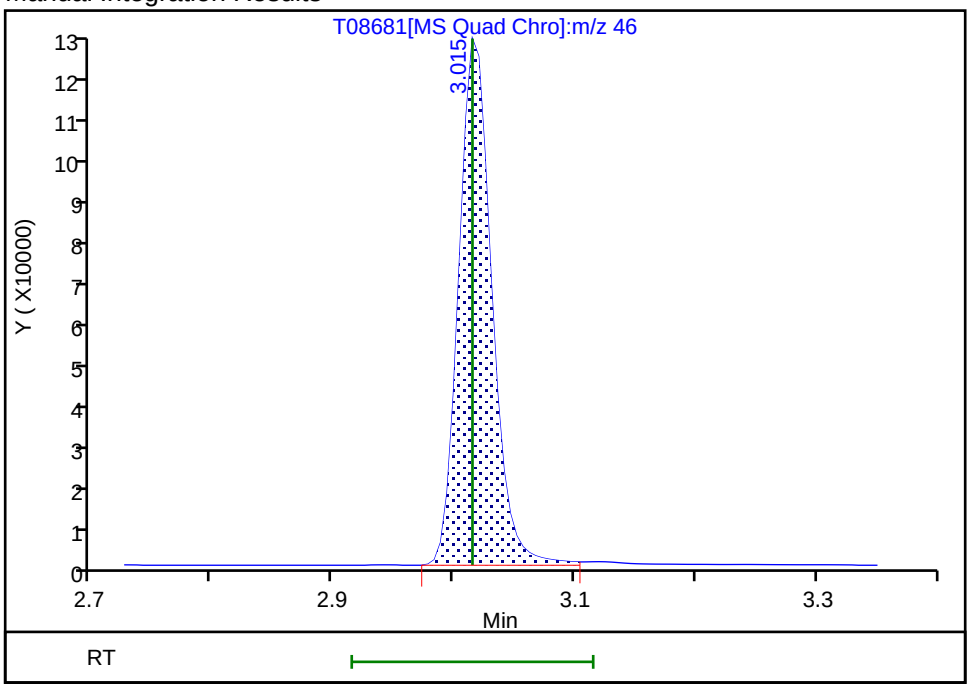
Not Detected
Expected RT: 3.02

Processing Integration Results



Manual Integration Results

RT: 3.01
Area: 241964
Amount: 250.0000
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:20:23
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

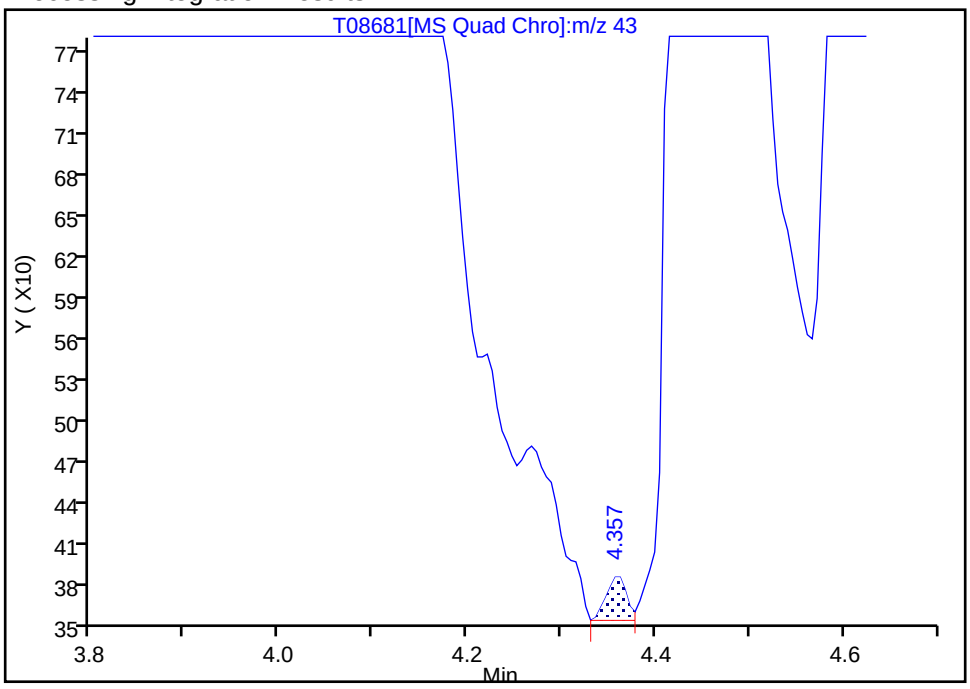
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08681.D
Injection Date: 20-Jun-2018 22:52:17 Instrument ID: CVOAMS15
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

62 n-Heptane, CAS: 142-82-5

Signal: 1

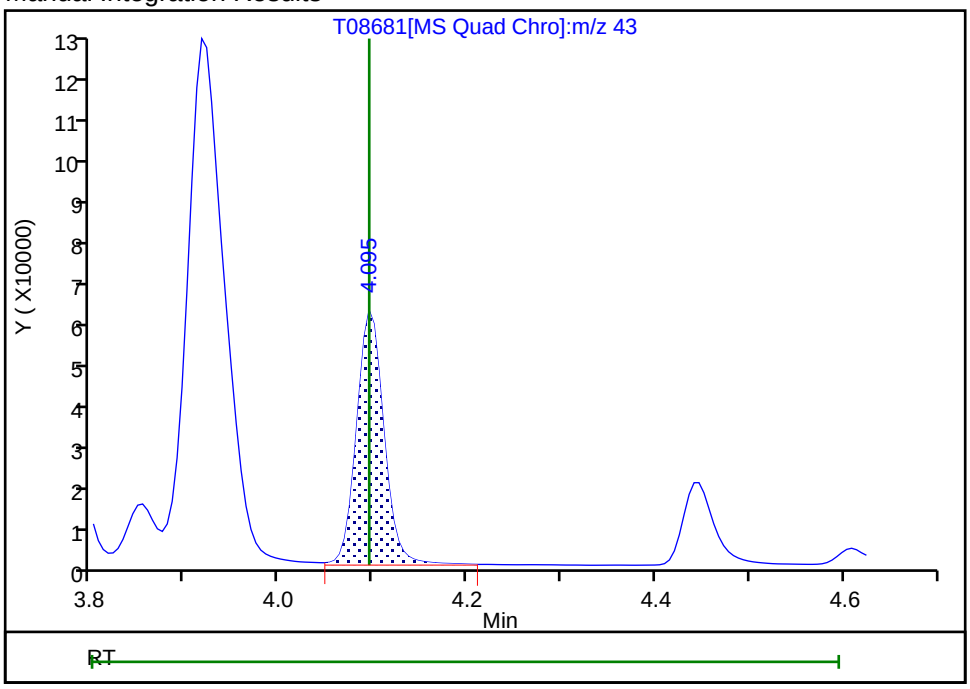
Processing Integration Results

RT: 4.36
Area: 47
Amount: 0.026667
Amount Units: ug/l



Manual Integration Results

RT: 4.10
Area: 118094
Amount: 48.713002
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:23:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08682.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 20-Jun-2018 23:17:28 ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074090-008
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:09:24 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: desais Date: 21-Jun-2018 07:45:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	92	255545	200.0	245.7	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	652062	200.0	243.2	
3 Chloromethane	50	1.033	1.033	0.000	99	392734	200.0	209.2	
4 Vinyl chloride	62	1.091	1.091	0.000	98	412431	200.0	213.1	
5 Butadiene	54	1.112	1.112	0.000	92	324395	200.0	204.0	
6 Bromomethane	94	1.269	1.269	0.000	99	73591	200.0	205.2	
7 Chloroethane	64	1.332	1.332	0.000	99	102643	200.0	200.1	
8 Dichlorofluoromethane	67	1.447	1.453	-0.006	99	540977	200.0	193.1	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	99	767155	200.0	214.0	
10 Pentane	72	1.531	1.531	0.000	95	163528	400.0	410.6	
11 Ethanol	46	1.626	1.615	0.011	99	94370	8000.0	8029.1	
12 Ethyl ether	59	1.662	1.662	0.000	62	315998	200.0	173.1	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	88	419090	200.0	195.2	
14 2-Methyl-1,3-butadiene	53	1.673	1.673	0.000	82	317937	200.0	173.1	
15 Acrolein	56	1.741	1.736	0.005	96	49892	200.0	195.1	
16 1,1-Dichloroethene	96	1.799	1.793	0.006	93	453258	200.0	211.5	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	91	448541	200.0	209.8	
18 Acetone	43	1.841	1.835	0.006	89	541186	1000.0	995.4	
19 Iodomethane	142	1.888	1.888	0.000	98	397166	200.0	208.1	
21 Carbon disulfide	76	1.930	1.930	0.000	98	1270249	200.0	196.0	
20 Isopropyl alcohol	45	1.940	1.935	0.005	38	277191	2000.0	2005.8	
24 Acetonitrile	40	2.014	2.014	0.000	90	300295	2000.0	1734.8	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	94	339212	200.0	198.8	
23 Methyl acetate	43	2.045	2.045	0.000	97	590161	400.0	384.3	
25 Cyclopentene	67	2.082	2.082	0.000	96	1031267	200.0	196.0	
26 Methylene Chloride	84	2.108	2.108	0.000	85	501571	200.0	192.6	
* 27 TBA-d9 (IS)	66	2.150	2.139	0.011	99	43367	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.208	2.197	0.011	99	506540	2000.0	2026.0	
29 Acrylonitrile	53	2.276	2.271	0.005	96	1404431	2000.0	1656.1	
30 trans-1,2-Dichloroethene	96	2.292	2.292	0.000	87	486701	200.0	198.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.302	2.302	0.000	96	1226679	200.0	190.9	
32 Hexane	57	2.496	2.491	0.005	89	579765	200.0	201.8	
33 1,1-Dichloroethane	63	2.596	2.590	0.006	99	823203	200.0	194.8	
34 Vinyl acetate	86	2.643	2.638	0.005	99	235530	400.0	406.9	
35 Isopropyl ether	45	2.664	2.659	0.005	85	1080878	200.0	158.8	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	75	455592	200.0	196.3	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	91	1278743	200.0	189.3	
* 38 2-Butanone-d5	46	3.020	3.015	0.005	91	235670	250.0	250.0	a
39 2,2-Dichloropropane	97	3.047	3.047	0.000	79	176228	200.0	187.5	
40 cis-1,2-Dichloroethene	96	3.047	3.047	0.000	97	570297	200.0	199.3	
41 2-Butanone (MEK)	43	3.068	3.062	0.006	97	843802	1000.0	887.2	
42 Propionitrile	54	3.120	3.109	0.011	97	610080	2000.0	1616.4	a
43 Ethyl acetate	70	3.130	3.125	0.005	99	104934	400.0	366.0	
44 Methyl acrylate	55	3.151	3.146	0.005	94	506058	200.0	216.0	
45 Methacrylonitrile	67	3.251	3.235	0.016	84	1520175	2000.0	1576.2	
46 Chlorobromomethane	128	3.246	3.241	0.005	51	231865	200.0	187.9	
47 Tetrahydrofuran	72	3.293	3.293	0.000	85	130774	400.0	383.2	
48 Chloroform	83	3.319	3.314	0.005	100	817141	200.0	192.4	
$ 49 Dibromofluoromethane (Surr	113	3.456	3.456	0.000	66	88365	50.0	50.1	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	96	750840	200.0	195.1	
51 Cyclohexane	84	3.524	3.518	0.006	86	721387	200.0	201.8	
52 Carbon tetrachloride	117	3.623	3.618	0.005	98	647644	200.0	198.7	
53 1,1-Dichloropropene	75	3.623	3.623	0.000	95	624483	200.0	190.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	93298	50.0	48.6	
54 Isobutyl alcohol	43	3.781	3.770	0.011	25	481838	5000.0	4641.5	a
56 Benzene	78	3.812	3.807	0.005	95	1894029	200.0	172.0	
57 1,2-Dichloroethane	62	3.828	3.828	0.000	62	538792	200.0	172.9	
58 Isooctane	57	3.906	3.901	0.005	100	1049382	200.0	194.1	
59 Isopropyl acetate	61	3.922	3.917	0.005	95	173335	200.0	205.1	
60 Tert-amyl methyl ether	73	3.943	3.938	0.005	91	1288340	200.0	192.5	
* 61 Fluorobenzene	96	4.085	4.079	0.006	95	427642	50.0	50.0	
62 n-Heptane	43	4.100	4.095	0.005	86	456489	200.0	189.1	
63 n-Butanol	56	4.447	4.441	0.005	75	337615	5000.0	4510.3	
64 Trichloroethene	95	4.457	4.452	0.005	96	518307	200.0	191.2	
65 Ethyl acrylate	55	4.614	4.609	0.005	99	625343	200.0	209.9	
66 Methylcyclohexane	83	4.656	4.651	0.005	93	793809	200.0	207.0	
67 1,2-Dichloropropane	63	4.688	4.688	0.000	90	472412	200.0	195.3	
* 68 1,4-Dioxane-d8	96	4.814	4.803	0.011	16	31985	1000.0	1000.0	
69 Dibromomethane	93	4.808	4.808	0.000	97	300414	200.0	190.3	
70 1,4-Dioxane	88	4.866	4.861	0.005	34	127448	4000.0	3977.1	
71 Methyl methacrylate	100	4.866	4.861	0.005	82	289494	400.0	423.6	
72 n-Propyl acetate	43	4.950	4.945	0.005	97	600317	200.0	201.1	
73 Dichlorobromomethane	83	5.002	4.997	0.005	99	661357	200.0	201.9	
74 2-Nitropropane	41	5.275	5.270	0.005	95	205241	400.0	404.8	
75 2-Chloroethyl vinyl ether	63	5.390	5.385	0.005	96	315928	200.0	204.9	
76 Epichlorohydrin	57	5.443	5.432	0.011	99	940842	4000.0	3998.8	
77 cis-1,3-Dichloropropene	75	5.537	5.532	0.005	89	794301	200.0	193.6	
78 4-Methyl-2-pentanone (MIBK	43	5.757	5.752	0.005	92	1750935	1000.0	948.5	
$ 79 Toluene-d8 (Surr)	98	5.857	5.852	0.005	99	348668	50.0	49.5	
80 Toluene	91	5.936	5.930	0.006	94	2101165	200.0	185.8	
81 trans-1,3-Dichloropropene	75	6.245	6.245	0.000	95	734490	200.0	196.7	
82 Ethyl methacrylate	69	6.428	6.423	0.005	86	634547	200.0	196.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.476	6.470	0.006	96	367129	200.0	197.7	
84 Tetrachloroethene	166	6.638	6.638	0.000	98	589297	200.0	202.7	
85 1,3-Dichloropropane	76	6.691	6.685	0.006	90	754440	200.0	195.1	
86 2-Hexanone	43	6.869	6.858	0.011	92	1275575	1000.0	965.8	
87 Chlorodibromomethane	129	6.984	6.979	0.005	97	526669	200.0	209.0	
88 n-Butyl acetate	43	7.089	7.084	0.005	97	633988	200.0	188.2	
89 Ethylene Dibromide	107	7.110	7.105	0.005	98	471902	200.0	198.0	
* 90 Chlorobenzene-d5	117	7.797	7.792	0.005	83	359918	50.0	50.0	
91 Chlorobenzene	112	7.839	7.834	0.005	97	1463112	200.0	196.5	
92 1,1,1,2-Tetrachloroethane	131	7.980	7.975	0.005	96	526382	200.0	208.2	
93 Ethylbenzene	106	8.043	8.038	0.005	97	802670	200.0	193.7	
94 m-Xylene & p-Xylene	106	8.227	8.222	0.005	94	975059	200.0	191.7	
95 o-Xylene	106	8.819	8.814	0.005	95	945547	200.0	194.0	
96 Styrene	104	8.845	8.840	0.005	95	1592765	200.0	194.6	
97 n-Butyl acrylate	73	8.898	8.893	0.005	99	376079	200.0	196.3	
98 Bromoform	173	9.076	9.071	0.005	97	349920	200.0	228.5	
99 Amyl acetate (mixed isomer	43	9.291	9.286	0.005	92	753253	200.0	193.1	
100 Isopropylbenzene	105	9.427	9.422	0.005	95	2269888	200.0	190.2	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	115138	50.0	48.9	
102 Bromobenzene	156	9.821	9.815	0.006	95	613521	200.0	202.2	
103 1,1,2,2-Tetrachloroethane	83	9.941	9.936	0.005	97	579603	200.0	204.5	
104 1,2,3-Trichloropropane	110	9.962	9.957	0.005	94	185386	200.0	190.2	
105 trans-1,4-Dichloro-2-buten	53	10.041	10.030	0.011	97	151245	200.0	195.5	
106 N-Propylbenzene	91	10.099	10.088	0.011	99	2592194	200.0	189.7	
107 2-Chlorotoluene	91	10.172	10.167	0.005	96	1550870	200.0	189.4	
108 4-Ethyltoluene	105	10.298	10.287	0.011	98	2168049	200.0	189.5	
109 4-Chlorotoluene	91	10.361	10.355	0.006	96	1685301	200.0	192.5	
110 1,3,5-Trimethylbenzene	105	10.413	10.403	0.010	94	1784927	200.0	192.6	
111 Butyl Methacrylate	87	10.691	10.686	0.005	84	664414	200.0	198.4	
112 tert-Butylbenzene	119	10.927	10.922	0.005	92	1575204	200.0	192.1	
118 1,2,4-Trimethylbenzene	105	11.016	11.006	0.010	96	1838642	200.0	192.7	
113 sec-Butylbenzene	105	11.289	11.283	0.006	98	2167577	200.0	192.2	
114 1,3-Dichlorobenzene	146	11.378	11.373	0.005	97	1077575	200.0	201.8	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.483	0.000	95	187597	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.519	11.514	0.005	96	1088769	200.0	203.4	
117 4-Isopropyltoluene	119	11.530	11.525	0.005	95	1815121	200.0	191.4	
135 1,2,3-Trimethylbenzene	105	11.630	11.624	0.006	98	1761408	200.0	188.0	
119 Benzyl chloride	91	11.734	11.729	0.005	99	1135497	200.0	198.7	
120 2,3-Dihydroindene	117	11.866	11.860	0.006	91	1778875	200.0	191.6	
121 1,2-Dichlorobenzene	146	11.997	11.997	0.000	96	996157	200.0	203.7	
122 p-Diethylbenzene	119	12.049	12.044	0.005	94	965875	200.0	192.3	
123 n-Butylbenzene	92	12.075	12.070	0.005	96	855416	200.0	187.2	
124 1,2-Dibromo-3-Chloropropan	155	12.909	12.904	0.005	83	104835	200.0	224.2	
125 1,2,4,5-Tetramethylbenzene	119	12.925	12.925	0.000	97	1488576	200.0	191.4	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	585688	200.0	201.0	
127 1,2,4-Trichlorobenzene	180	13.722	13.716	0.006	94	547386	200.0	212.8	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	78	208014	200.0	204.5	
129 Naphthalene	128	13.926	13.926	0.000	99	1609222	200.0	215.5	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	96	488549	200.0	212.7	
S 131 1,2-Dichloroethene, Total	100				0		400.0	397.9	
S 132 Xylenes, Total	100				0		400.0	385.7	
S 134 Total 1,2-dichloroethene	1				0			397.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		400.0	390.3	
S 133 Total BTEX	1				0		1000.0	937.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	20.00	Units: uL	
GAS Hi_00260	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	20.00	Units: uL	
Ethanol mix_00016	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:09:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08682.D

Injection Date: 20-Jun-2018 23:17:28 Instrument ID: CVOAMS15

Lims ID: STD200

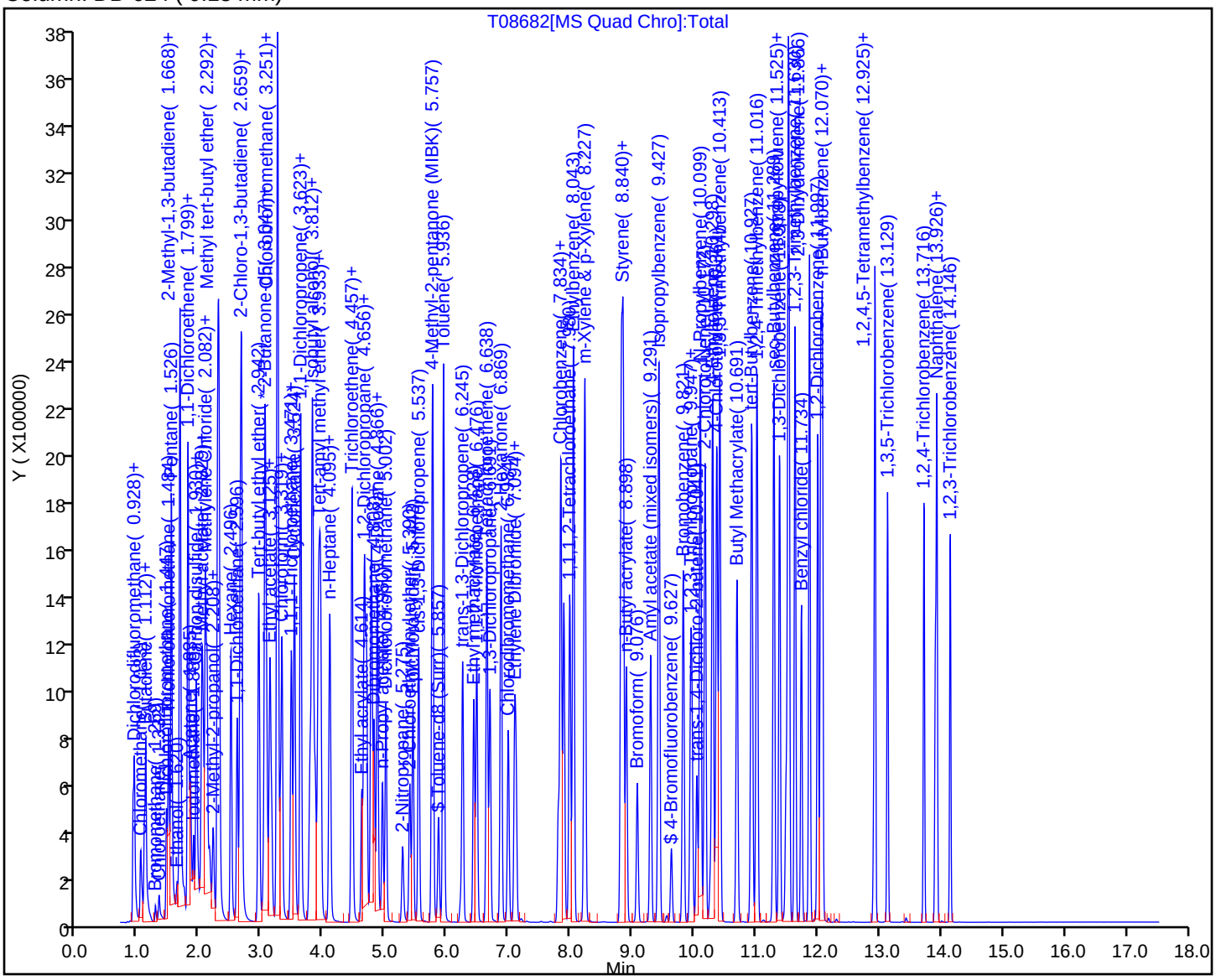
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 8

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

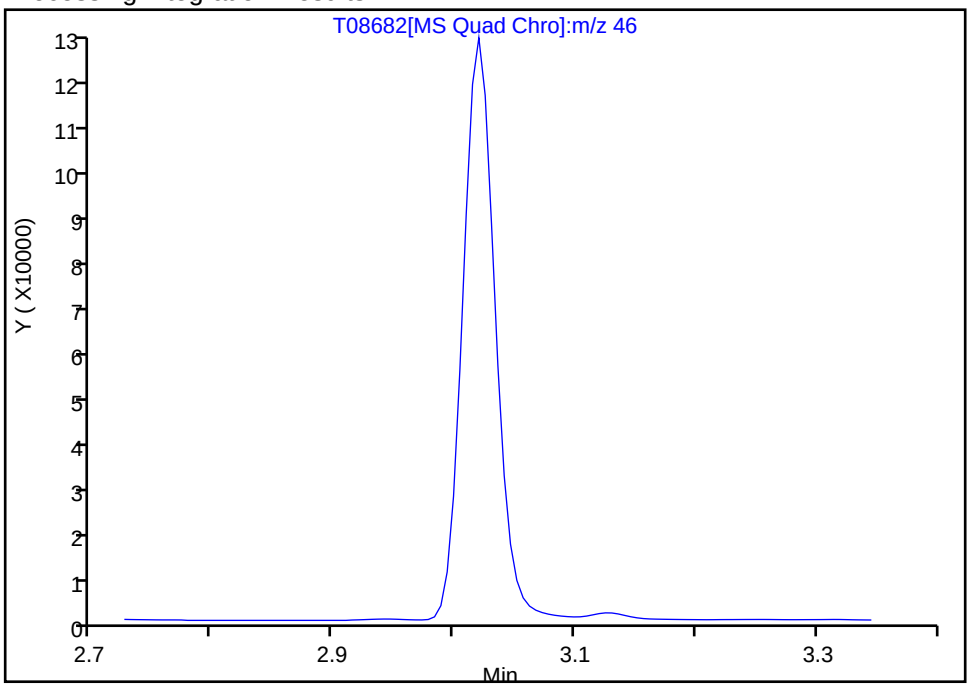
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08682.D
Injection Date: 20-Jun-2018 23:17:28 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

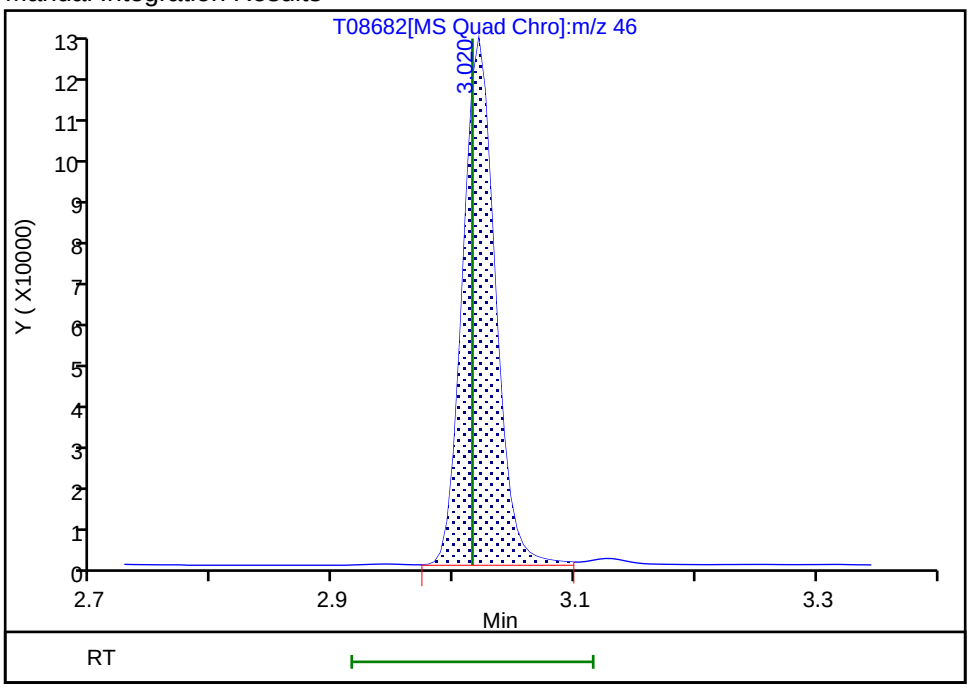
Not Detected
Expected RT: 3.02

Processing Integration Results



Manual Integration Results

RT: 3.02
Area: 235670
Amount: 250.0000
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:33:22
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

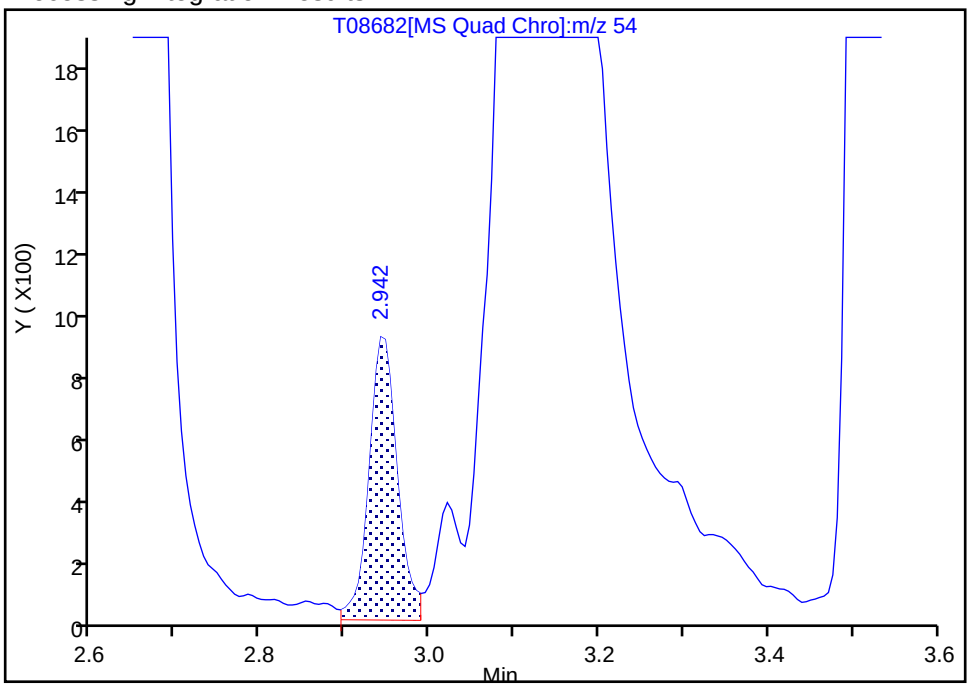
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08682.D
Injection Date: 20-Jun-2018 23:17:28 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

42 Propionitrile, CAS: 107-12-0

Signal: 1

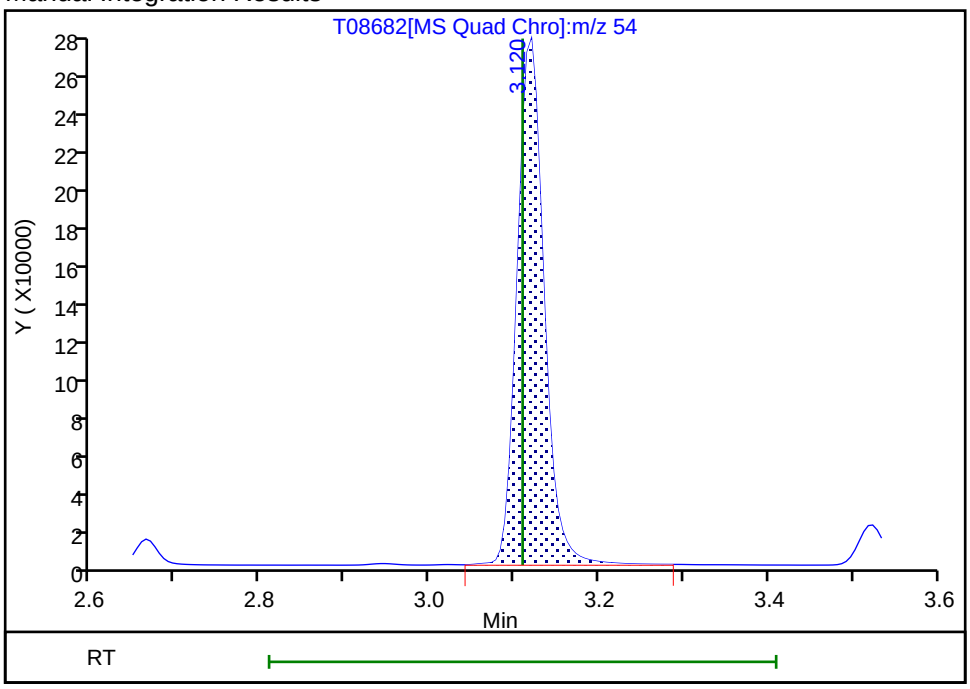
Processing Integration Results

RT: 2.94
Area: 2020
Amount: 6.540003
Amount Units: ug/l



Manual Integration Results

RT: 3.12
Area: 610080
Amount: 1616.4214
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:33:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

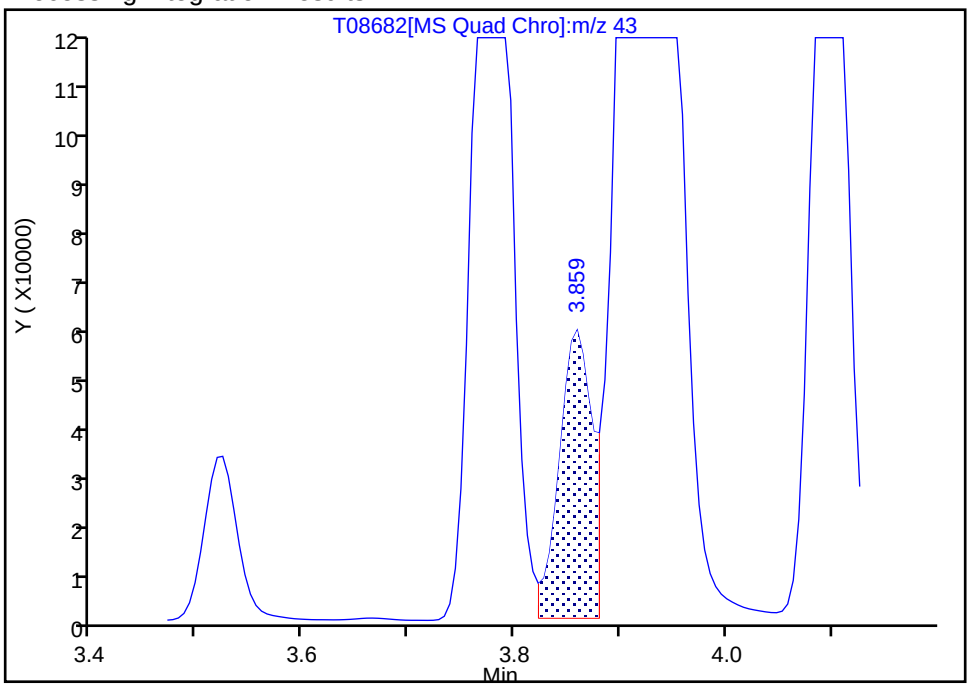
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08682.D
Injection Date: 20-Jun-2018 23:17:28 Instrument ID: CVOAMS15
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

54 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

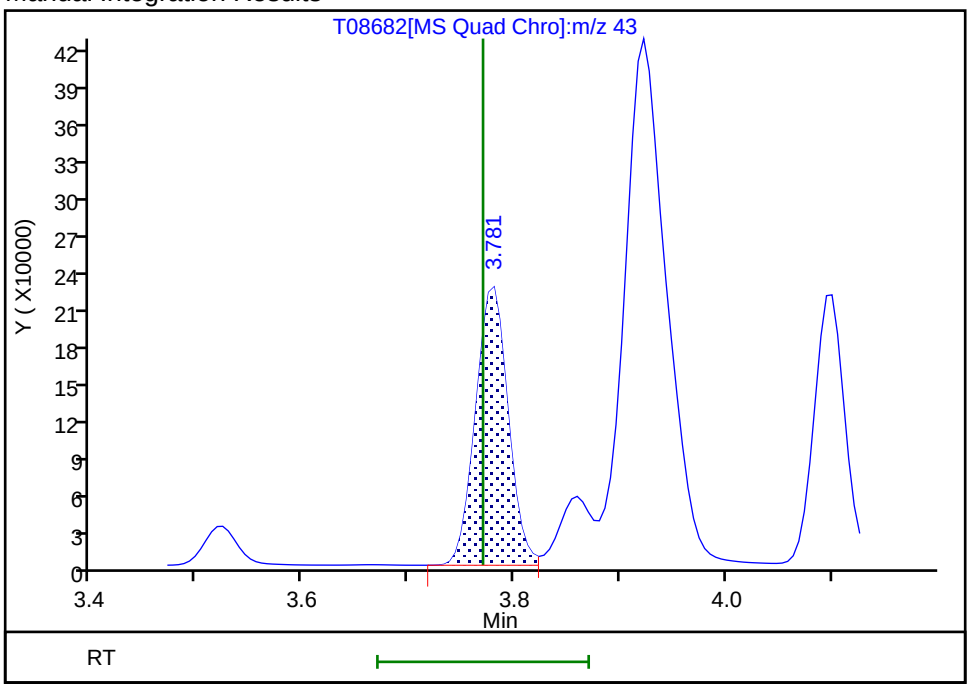
Processing Integration Results

RT: 3.86
Area: 125332
Amount: 1438.6145
Amount Units: ug/l



Manual Integration Results

RT: 3.78
Area: 481838
Amount: 4641.4949
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:34:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 20-Jun-2018 23:42:43 ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074090-009
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 22-Jun-2018 18:09:39 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK024

First Level Reviewer: desais Date: 21-Jun-2018 07:49:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	91	653740	500.0	629.4	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	1569043	500.0	585.9	
3 Chloromethane	50	1.028	1.033	-0.005	99	1023692	500.0	545.8	
4 Vinyl chloride	62	1.091	1.091	0.000	98	953900	500.0	493.4	
5 Butadiene	54	1.112	1.112	0.000	92	743937	500.0	468.3	
6 Bromomethane	94	1.269	1.269	0.000	98	152490	500.0	499.3	
7 Chloroethane	64	1.322	1.332	-0.010	99	92245	500.0	210.6	
8 Dichlorofluoromethane	67	1.447	1.453	-0.006	99	1015763	500.0	363.0	
9 Trichlorofluoromethane	101	1.479	1.484	-0.005	99	1713720	500.0	478.5	
10 Pentane	72	1.526	1.531	-0.005	95	327590	1000.0	823.5	
11 Ethanol	46	1.641	1.615	0.026	97	194458	20000	19892	M
12 Ethyl ether	59	1.662	1.662	0.000	54	577238	500.0	316.5	
13 1,2-Dichloro-1,1,2-trifluo	117	1.668	1.668	0.000	87	914674	500.0	426.5	
14 2-Methyl-1,3-butadiene	53	1.668	1.673	-0.005	83	583619	500.0	318.1	
15 Acrolein	56	1.741	1.736	0.005	86	95071	400.0	284.9	
16 1,1-Dichloroethene	96	1.793	1.793	0.000	90	1043995	500.0	487.8	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	95	1064009	500.0	498.3	
18 Acetone	43	1.841	1.835	0.006	90	1232317	2500.0	2500.6	
19 Iodomethane	142	1.888	1.888	0.000	98	865843	500.0	498.6	
21 Carbon disulfide	76	1.930	1.930	0.000	98	2902237	500.0	448.3	
20 Isopropyl alcohol	45	1.961	1.935	0.026	73	678784	5000.0	4998.1	
24 Acetonitrile	40	2.019	2.014	0.005	86	637358	5000.0	4316.4	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	96	804801	500.0	472.2	
23 Methyl acetate	43	2.050	2.045	0.005	96	1275750	1000.0	831.7	
25 Cyclopentene	67	2.082	2.082	0.000	97	2334398	500.0	444.2	
26 Methylene Chloride	84	2.108	2.108	0.000	81	1171637	500.0	450.4	
* 27 TBA-d9 (IS)	66	2.166	2.139	0.027	97	56587	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.223	2.197	0.026	99	1221092	5000.0	4991.1	
29 Acrylonitrile	53	2.281	2.271	0.010	95	2400289	5000.0	2833.6	
30 trans-1,2-Dichloroethene	96	2.297	2.292	0.005	73	951502	500.0	388.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.307	2.302	0.005	95	2415810	500.0	376.3	
32 Hexane	57	2.491	2.491	0.000	87	1327696	500.0	462.5	
33 1,1-Dichloroethane	63	2.596	2.590	0.006	99	1859491	500.0	440.4	
34 Vinyl acetate	86	2.643	2.638	0.005	98	481521	1000.0	975.1	
35 Isopropyl ether	45	2.669	2.659	0.010	84	1858508	500.0	273.4	
36 2-Chloro-1,3-butadiene	88	2.669	2.664	0.005	75	887269	500.0	382.8	
37 Tert-butyl ethyl ether	59	2.947	2.942	0.005	93	2800477	500.0	415.0	
* 38 2-Butanone-d5	46	3.026	3.015	0.011	49	201030	250.0	250.0	a
40 cis-1,2-Dichloroethene	96	3.052	3.047	0.005	94	1283578	500.0	449.1	
39 2,2-Dichloropropane	97	3.047	3.047	-0.001	82	379969	500.0	404.7	
41 2-Butanone (MEK)	43	3.078	3.062	0.016	96	1856606	2500.0	2288.4	
42 Propionitrile	54	3.136	3.109	0.027	83	1314957	5000.0	2670.1	a
43 Ethyl acetate	70	3.136	3.125	0.011	98	241111	1000.0	985.8	
44 Methyl acrylate	55	3.162	3.146	0.016	94	1155840	500.0	493.9	
45 Methacrylonitrile	67	3.272	3.235	0.037	83	2599743	5000.0	2698.5	
46 Chlorobromomethane	128	3.246	3.241	0.005	69	503194	500.0	408.3	
47 Tetrahydrofuran	72	3.303	3.293	0.010	83	303851	1000.0	1043.8	
48 Chloroform	83	3.330	3.314	0.016	100	1881747	500.0	443.6	
$ 49 Dibromofluoromethane (Surr	113	3.461	3.456	0.005	37	88576	50.0	50.3	
50 1,1,1-Trichloroethane	97	3.476	3.471	0.005	96	1746136	500.0	454.2	
51 Cyclohexane	84	3.524	3.518	0.006	83	1714097	500.0	480.1	
52 Carbon tetrachloride	117	3.623	3.618	0.005	98	1486616	500.0	456.6	
53 1,1-Dichloropropene	75	3.629	3.623	0.005	91	1281825	500.0	392.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.760	3.754	0.006	96	88748	50.0	46.3	
54 Isobutyl alcohol	43	3.791	3.770	0.021	22	950495	12500	7017.0	
56 Benzene	78	3.812	3.807	0.005	95	3723241	500.0	324.2	
57 1,2-Dichloroethane	62	3.833	3.828	0.005	65	1105457	500.0	355.2	
58 Isooctane	57	3.906	3.901	0.005	99	2304401	500.0	426.8	
59 Isopropyl acetate	61	3.927	3.917	0.010	95	375174	500.0	444.5	
60 Tert-amyl methyl ether	73	3.948	3.938	0.010	90	2832001	500.0	423.7	
* 61 Fluorobenzene	96	4.085	4.079	0.006	90	427165	50.0	50.0	
62 n-Heptane	43	4.100	4.095	0.005	84	1009448	500.0	418.7	
63 n-Butanol	56	4.473	4.441	0.032	51	765945	12500	7842.0	
64 Trichloroethene	95	4.457	4.452	0.005	94	1173558	500.0	433.4	
65 Ethyl acrylate	55	4.619	4.609	0.010	99	1516572	500.0	509.6	
66 Methylcyclohexane	83	4.656	4.651	0.005	91	1882525	500.0	491.5	
67 1,2-Dichloropropane	63	4.693	4.688	0.005	91	1048047	500.0	433.7	
* 68 1,4-Dioxane-d8	96	4.819	4.803	0.016	17	33992	1000.0	1000.0	
69 Dibromomethane	93	4.813	4.808	0.005	95	647646	500.0	410.7	
71 Methyl methacrylate	100	4.871	4.861	0.010	79	710394	1000.0	1040.5	
70 1,4-Dioxane	88	4.887	4.861	0.026	35	302608	10000	8885.4	
72 n-Propyl acetate	43	4.955	4.945	0.010	96	1420722	500.0	476.4	
73 Dichlorobromomethane	83	5.007	4.997	0.010	98	1536907	500.0	469.7	
74 2-Nitropropane	41	5.285	5.270	0.015	95	502839	1000.0	992.9	
75 2-Chloroethyl vinyl ether	63	5.395	5.385	0.010	95	805236	500.0	522.8	
76 Epichlorohydrin	57	5.458	5.432	0.026	98	1972667	10000	9829.0	
77 cis-1,3-Dichloropropene	75	5.542	5.532	0.010	88	1821490	500.0	425.7	
78 4-Methyl-2-pentanone (MIBK	43	5.773	5.752	0.021	89	3377204	2500.0	2144.6	
$ 79 Toluene-d8 (Surr)	98	5.862	5.852	0.010	99	359793	50.0	49.0	
80 Toluene	91	5.946	5.930	0.016	95	4527753	500.0	384.0	
81 trans-1,3-Dichloropropene	75	6.250	6.245	0.005	94	1701043	500.0	437.0	
82 Ethyl methacrylate	69	6.434	6.423	0.011	85	1486589	500.0	442.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.481	6.470	0.011	95	874834	500.0	451.8	
84 Tetrachloroethene	166	6.643	6.638	0.005	97	1490242	500.0	491.7	
85 1,3-Dichloropropane	76	6.696	6.685	0.011	89	1745879	500.0	432.9	
86 2-Hexanone	43	6.879	6.858	0.021	90	2627081	2500.0	2331.8	
87 Chlorodibromomethane	129	6.995	6.979	0.016	97	1328212	500.0	505.4	
88 n-Butyl acetate	43	7.094	7.084	0.010	96	1413207	500.0	402.4	
89 Ethylene Dibromide	107	7.120	7.105	0.015	99	1152500	500.0	463.7	
* 90 Chlorobenzene-d5	117	7.802	7.792	0.010	83	375301	50.0	50.0	
91 Chlorobenzene	112	7.844	7.834	0.010	98	3432201	500.0	442.0	
92 1,1,1,2-Tetrachloroethane	131	7.991	7.975	0.016	96	1305721	500.0	495.3	
93 Ethylbenzene	106	8.048	8.038	0.010	96	1858975	500.0	430.2	
94 m-Xylene & p-Xylene	106	8.232	8.222	0.010	93	2250934	500.0	424.4	
95 o-Xylene	106	8.824	8.814	0.010	96	2137653	500.0	420.6	
96 Styrene	104	8.856	8.840	0.016	95	3388764	500.0	397.0	
97 n-Butyl acrylate	73	8.908	8.893	0.015	98	925995	500.0	463.5	
98 Bromoform	173	9.081	9.071	0.010	97	915044	500.0	573.0	
99 Amyl acetate (mixed isomer	43	9.302	9.286	0.016	92	1689173	500.0	422.1	
100 Isopropylbenzene	105	9.433	9.422	0.011	94	5056843	500.0	406.3	
$ 101 4-Bromofluorobenzene	174	9.632	9.627	0.005	0	119661	50.0	48.7	
102 Bromobenzene	156	9.826	9.815	0.011	91	1533694	500.0	492.6	
103 1,1,2,2-Tetrachloroethane	83	9.946	9.936	0.010	97	1365445	500.0	469.6	
104 1,2,3-Trichloropropane	110	9.967	9.957	0.010	91	457068	500.0	457.0	
105 trans-1,4-Dichloro-2-buten	53	10.051	10.030	0.021	97	361970	500.0	456.0	
106 N-Propylbenzene	91	10.109	10.088	0.021	98	5700247	500.0	406.6	
107 2-Chlorotoluene	91	10.188	10.167	0.021	95	3465503	500.0	412.5	
108 4-Ethyltoluene	105	10.308	10.287	0.021	97	4930510	500.0	420.0	
109 4-Chlorotoluene	91	10.376	10.355	0.021	95	3713692	500.0	413.4	
110 1,3,5-Trimethylbenzene	105	10.424	10.403	0.021	95	3948299	500.0	415.3	
111 Butyl Methacrylate	87	10.701	10.686	0.015	82	1618490	500.0	471.1	
112 tert-Butylbenzene	119	10.937	10.922	0.015	92	3655976	500.0	434.8	
118 1,2,4-Trimethylbenzene	105	11.027	11.006	0.021	95	4082309	500.0	417.1	
113 sec-Butylbenzene	105	11.299	11.283	0.016	98	4808758	500.0	415.6	
114 1,3-Dichlorobenzene	146	11.388	11.373	0.015	97	2530053	500.0	461.8	
* 115 1,4-Dichlorobenzene-d4	152	11.488	11.483	0.005	96	192434	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.525	11.514	0.011	96	2264983	500.0	412.5	
117 4-Isopropyltoluene	119	11.540	11.525	0.015	95	3701740	500.0	380.6	
135 1,2,3-Trimethylbenzene	105	11.640	11.624	0.016	97	3882618	500.0	404.0	
119 Benzyl chloride	91	11.740	11.729	0.011	100	2685887	500.0	458.1	
120 2,3-Dihydroindene	117	11.871	11.860	0.011	91	3844429	500.0	403.6	
121 1,2-Dichlorobenzene	146	12.007	11.997	0.010	97	2318262	500.0	462.1	
122 p-Diethylbenzene	119	12.054	12.044	0.010	95	2203843	500.0	427.8	
123 n-Butylbenzene	92	12.080	12.070	0.010	95	1796613	500.0	383.3	
124 1,2-Dibromo-3-Chloropropan	155	12.909	12.904	0.005	90	279896	500.0	583.6	
125 1,2,4,5-Tetramethylbenzene	119	12.930	12.925	0.005	98	3229652	500.0	404.9	
126 1,3,5-Trichlorobenzene	180	13.134	13.129	0.005	97	1403717	500.0	469.6	
127 1,2,4-Trichlorobenzene	180	13.721	13.716	0.005	94	1322660	500.0	501.2	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	78	527033	500.0	505.2	
129 Naphthalene	128	13.931	13.926	0.005	99	3592800	500.0	469.1	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	96	1180440	500.0	500.9	
S 131 1,2-Dichloroethene, Total	100				0		1000.0	837.9	
S 132 Xylenes, Total	100				0		1000.0	845.0	
S 133 Total BTEX	1				0		2500.0	1983.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 136 1,3-Dichloropropene, Total	1				0		1000.0	862.7	
S 134 Total 1,2-dichloroethene	1				0			837.9	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00077	Amount Added:	40.00	Units: uL	
GAS Hi_00260	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	50.00	Units: uL	
Ethanol mix_00016	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 22-Jun-2018 18:09:41 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Injection Date: 20-Jun-2018 23:42:43 Instrument ID: CVOAMS15

Lims ID: STD500

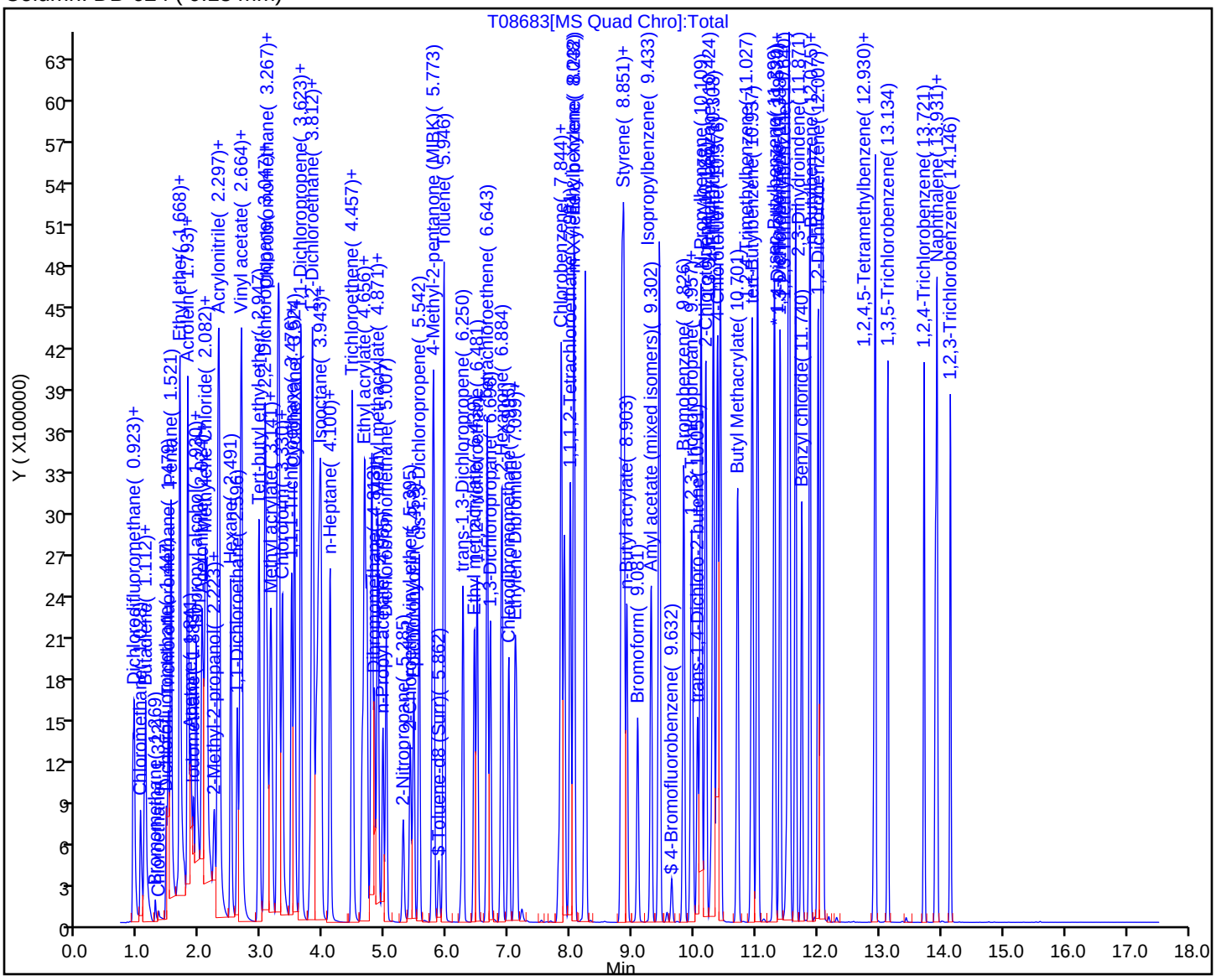
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 9

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

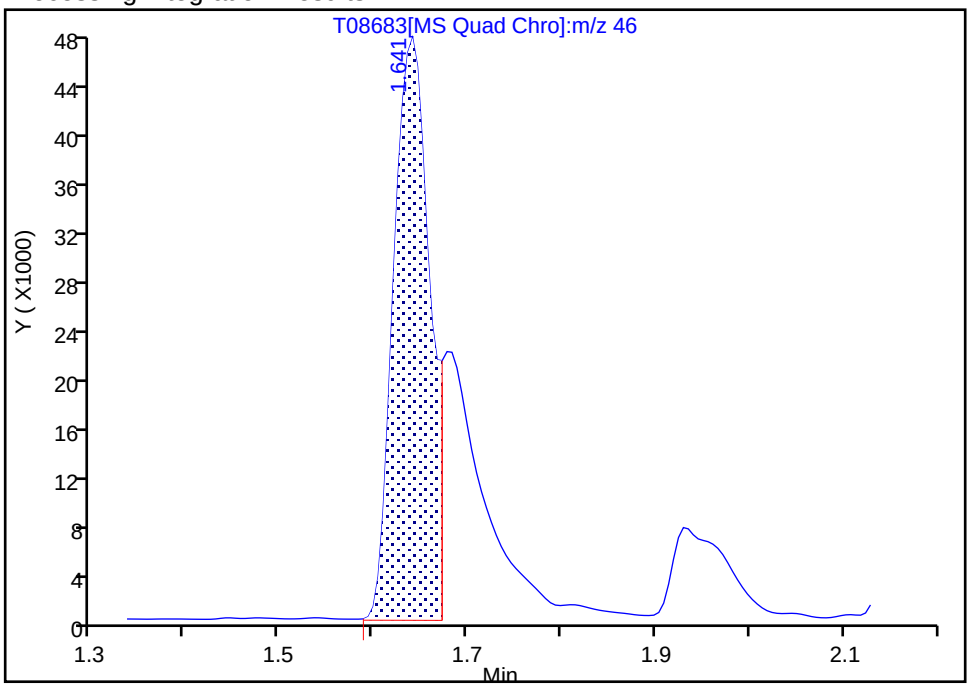
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D
Injection Date: 20-Jun-2018 23:42:43 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

11 Ethanol, CAS: 64-17-5

Signal: 1

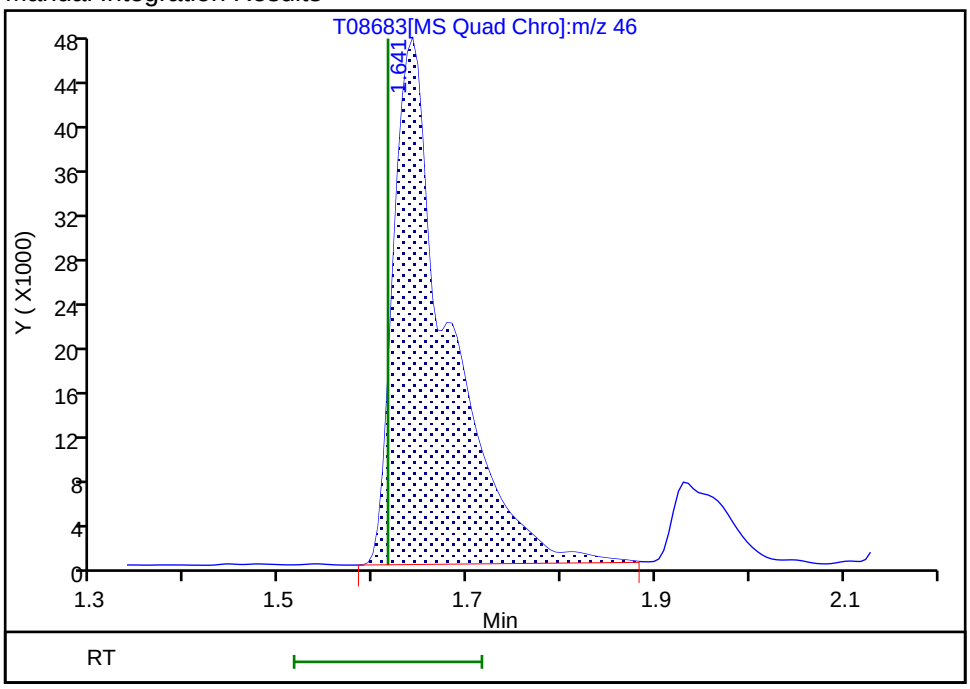
Processing Integration Results

RT: 1.64
Area: 130622
Amount: 8813.2406
Amount Units: ug/l



Manual Integration Results

RT: 1.64
Area: 194458
Amount: 19892
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:26:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

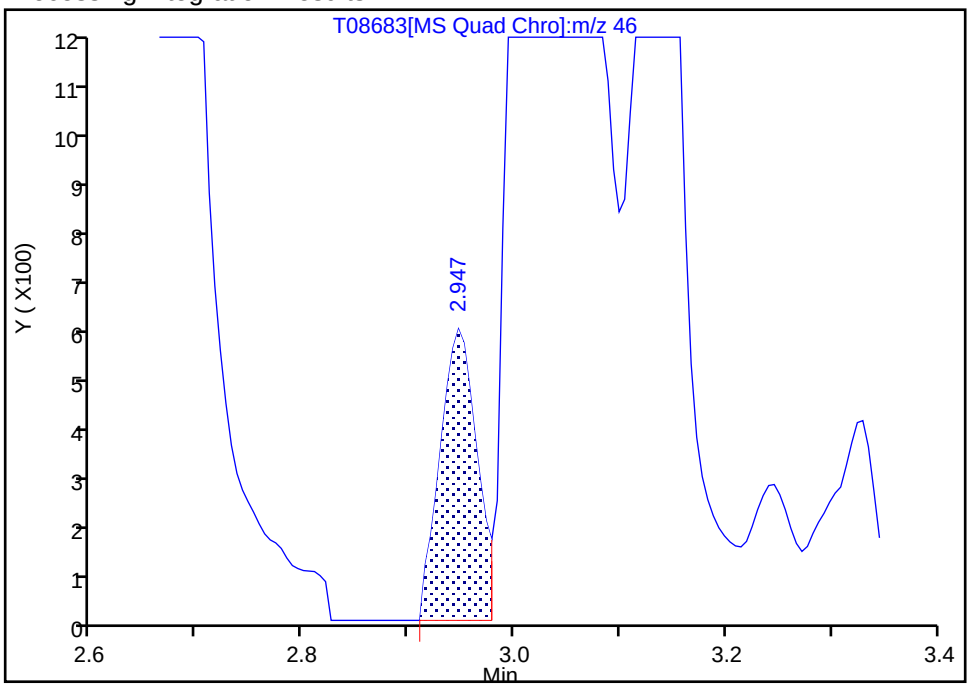
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D
Injection Date: 20-Jun-2018 23:42:43 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

* 38 2-Butanone-d5, CAS: 24313-50-6

Signal: 1

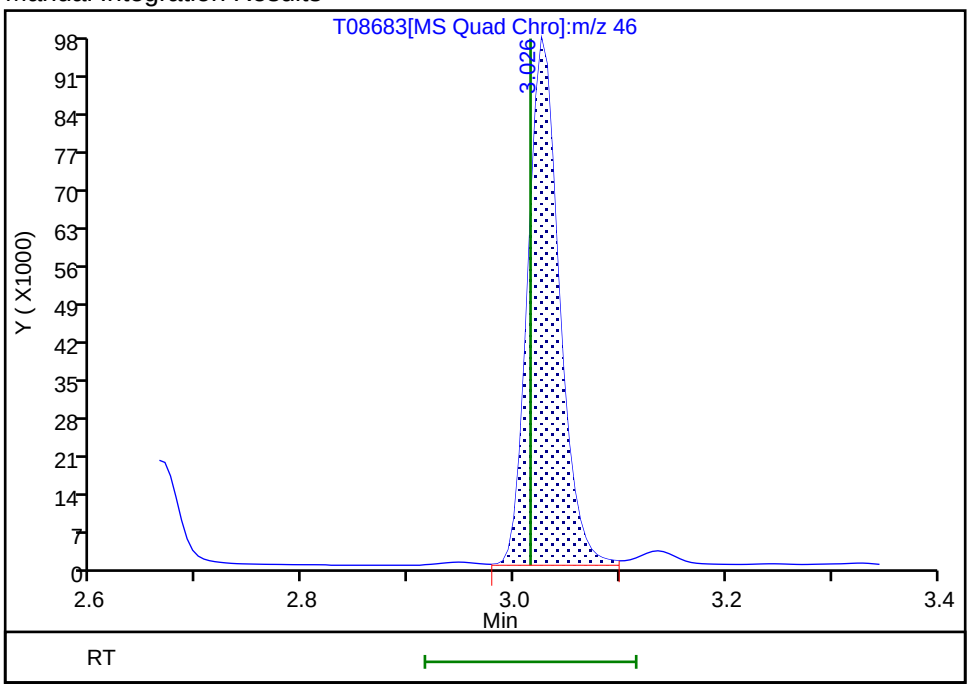
Processing Integration Results

RT: 2.95
Area: 1419
Amount: 250.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.03
Area: 201030
Amount: 250.0000
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:25:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

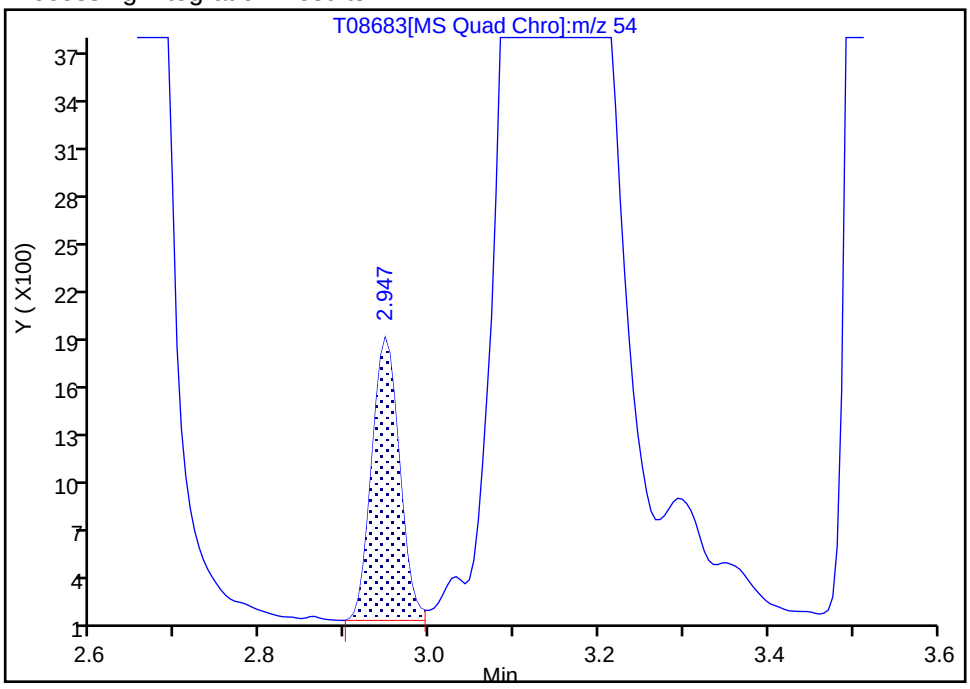
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D
Injection Date: 20-Jun-2018 23:42:43 Instrument ID: CVOAMS15
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

42 Propionitrile, CAS: 107-12-0

Signal: 1

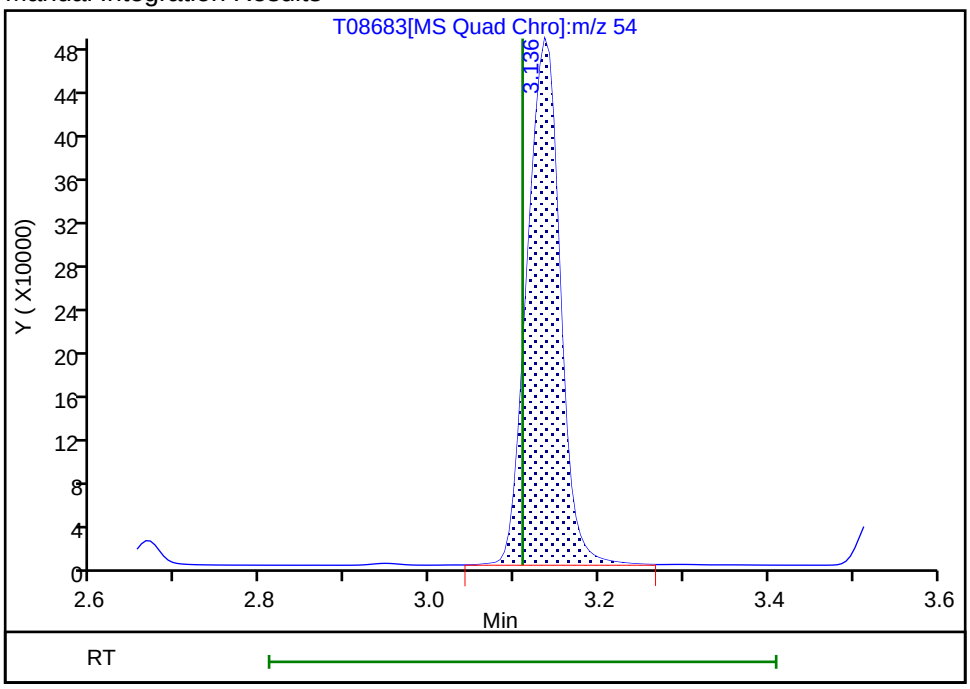
Processing Integration Results

RT: 2.95
Area: 3981
Amount: 6.227041
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1314957
Amount: 2670.0665
Amount Units: ug/l



Reviewer: baronm, 22-Jun-2018 15:26:31
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab Sample ID: CCVIS 460-534240/2 Calibration Date: 07/07/2018 08:47

Instrument ID: CVOAMS15 Calib Start Date: 06/20/2018 20:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/20/2018 23:42

Lab File ID: T09452.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1216	0.1072		17.6	20.0	-11.9	20.0
Dichlorodifluoromethane	Ave	0.3135	0.3125	0.1000	19.9	20.0	-0.3	20.0
Chloromethane	Ave	0.2195	0.2634	0.1000	24.0	20.0	20.0	20.0
Vinyl chloride	Ave	0.2263	0.2616	0.1000	23.1	20.0	15.6	20.0
Butadiene	Ave	0.1859	0.2050		22.1	20.0	10.3	20.0
Bromomethane	QuaF		0.5271	0.1000	27.7	20.0	38.4	50.0
Chloroethane	QuaF		1.842	0.1000	68.9	20.0	244.4*	50.0
Dichlorofluoromethane	Ave	0.3275	0.4462		27.2	20.0	36.2*	20.0
Trichlorofluoromethane	Ave	0.4192	0.4649	0.1000	22.2	20.0	10.9	20.0
Pentane	Ave	0.0466	0.0502		43.1	40.0	7.8	20.0
Ethanol	QuaF		0.3903		947	800	18.4	50.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2511	0.2558		20.4	20.0	1.9	20.0
Ethyl ether	Ave	0.2135	0.2187		20.5	20.0	2.4	20.0
2-Methyl-1,3-butadiene	Ave	0.2147	0.2402		22.4	20.0	11.9	20.0
Acrolein	Ave	5.898	9.174		62.2	40.0	55.5*	50.0
1,1-Dichloroethene	Ave	0.2505	0.2702	0.1000	21.6	20.0	7.9	20.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.2499	0.2596	0.1000	20.8	20.0	3.8	20.0
Acetone	QuaF		0.6381	0.0500	115	100	14.8	50.0
Iodomethane	QuaF		0.2027		17.2	20.0	-14.2	20.0
Carbon disulfide	Ave	0.7577	0.7227	0.1000	19.1	20.0	-4.6	50.0
Isopropyl alcohol	QuaF		3.609		197	200	-1.4	50.0
Acetonitrile	Ave	0.1836	0.2163		236	200	17.8	20.0
Allyl chloride	Ave	0.1995	0.1839		18.4	20.0	-7.8	20.0
Methyl acetate	Ave	0.1795	0.1399	0.1000	31.2	40.0	-22.1*	20.0
Cyclopentene	Ave	0.6151	0.7318		23.8	20.0	19.0	20.0
Methylene Chloride	Ave	0.3045	0.3237	0.1000	21.3	20.0	6.3	20.0
2-Methyl-2-propanol	QuaF		6.962		209	200	4.7	50.0
Acrylonitrile	Ave	0.0992	0.0808		163	200	-18.6	20.0
trans-1,2-Dichloroethene	Ave	0.2865	0.3165	0.1000	22.1	20.0	10.5	20.0
Methyl tert-butyl ether	Ave	0.7515	0.7174	0.1000	19.1	20.0	-4.5	20.0
Hexane	Ave	0.3360	0.3492		20.8	20.0	3.9	20.0
1,1-Dichloroethane	Ave	0.4942	0.5553	0.2000	22.5	20.0	12.4	20.0
Vinyl acetate	Ave	0.6141	0.6385		41.6	40.0	4.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2713	0.2962		21.8	20.0	9.2	20.0
Isopropyl ether	Ave	0.7956	0.8626		21.7	20.0	8.4	20.0
Tert-butyl ethyl ether	Ave	0.7898	0.7992		20.2	20.0	1.2	20.0
2,2-Dichloropropane	Ave	0.1099	0.1021		18.6	20.0	-7.1	20.0
cis-1,2-Dichloroethene	Ave	0.3346	0.3665	0.1000	21.9	20.0	9.5	20.0
2-Butanone (MEK)	Ave	1.009	1.073	0.0500	106	100	6.3	50.0
Propionitrile	Ave	8.703	11.12		255	200	27.7*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab Sample ID: CCVIS 460-534240/2 Calibration Date: 07/07/2018 08:47

Instrument ID: CVOAMS15 Calib Start Date: 06/20/2018 20:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/20/2018 23:42

Lab File ID: T09452.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Ethyl acetate	Ave	0.3042	0.2889		38.0	40.0	-5.0	20.0
Methyl acrylate	Ave	0.2739	0.1900		13.9	20.0	-30.6*	20.0
Methacrylonitrile	Ave	0.1128	0.0938		166	200	-16.8	20.0
Chlorobromomethane	Ave	0.1443	0.1600		22.2	20.0	10.9	20.0
Tetrahydrofuran	Ave	0.3620	0.3725		41.2	40.0	2.9	20.0
Chloroform	Ave	0.4965	0.5587	0.2000	22.5	20.0	12.5	20.0
1,1,1-Trichloroethane	Ave	0.4500	0.4570	0.1000	20.3	20.0	1.6	20.0
Cyclohexane	Ave	0.4179	0.4349	0.1000	20.8	20.0	4.1	50.0
1,1-Dichloropropene	Ave	0.3825	0.4340		22.7	20.0	13.5	20.0
Carbon tetrachloride	Ave	0.3811	0.3300	0.1000	17.3	20.0	-13.4	20.0
Isobutyl alcohol	Ave	2.394	2.361		493	500	-1.4	50.0
Benzene	Ave	1.530	1.616	0.5000	21.1	20.0	5.6	20.0
1,2-Dichloroethane	Ave	0.3643	0.3773	0.1000	20.7	20.0	3.6	20.0
2,2,4-Trimethylpentane	Ave	0.6320	0.6613		20.9	20.0	4.6	20.0
Isopropyl acetate	Ave	0.0988	0.0780		15.8	20.0	-21.0*	20.0
Tert-amyl methyl ether	Ave	0.7824	0.7258		18.6	20.0	-7.2	20.0
n-Heptane	Ave	0.2822	0.2820		20.0	20.0	-0.0	20.0
n-Butanol	Ave	1.726	1.543		447	500	-10.6	50.0
Trichloroethene	Ave	0.3169	0.3256	0.2000	20.5	20.0	2.7	20.0
Ethyl acrylate	Ave	0.3483	0.2425		13.9	20.0	-30.4*	20.0
Methylcyclohexane	Ave	0.4483	0.4541	0.1000	20.3	20.0	1.3	50.0
1,2-Dichloropropane	Ave	0.2829	0.3170	0.1000	22.4	20.0	12.1	20.0
Dibromomethane	Ave	0.1846	0.1685		18.3	20.0	-8.7	20.0
1,4-Dioxane	Ave	1.002	1.180		471	400	17.8	50.0
Methyl methacrylate	Ave	0.0799	0.0571		28.6	40.0	-28.6*	20.0
n-Propyl acetate	Ave	0.3491	0.2610		15.0	20.0	-25.2*	20.0
Bromodichloromethane	Ave	0.3830	0.3350	0.2000	17.5	20.0	-12.5	20.0
2-Nitropropane	Ave	0.0593	0.0253		17.1	40.0	-57.3*	20.0
2-Chloroethyl vinyl ether	Ave	0.1803	0.1598		17.7	20.0	-11.3	20.0
Epichlorohydrin	Ave	0.2496	0.2708		434	400	8.5	20.0
cis-1,3-Dichloropropene	Ave	0.5700	0.5517	0.2000	19.4	20.0	-3.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	1.958	2.236	0.0500	114	100	14.2	50.0
Toluene	Ave	1.571	1.649	0.4000	21.0	20.0	5.0	20.0
trans-1,3-Dichloropropene	Ave	0.5186	0.4380	0.1000	16.9	20.0	-15.5	50.0
Ethyl methacrylate	Ave	0.4478	0.3648		16.3	20.0	-18.5	20.0
1,1,2-Trichloroethane	Ave	0.2580	0.2420	0.1000	18.8	20.0	-6.2	20.0
Tetrachloroethene	Ave	0.4038	0.4278	0.2000	21.2	20.0	5.9	20.0
1,3-Dichloropropane	Ave	0.5373	0.5234		19.5	20.0	-2.6	20.0
2-Hexanone	Ave	1.401	1.501	0.0500	107	100	7.2	50.0
Dibromochloromethane	Ave	0.3501	0.2267	0.1000	13.0	20.0	-35.2	50.0
n-Butyl acetate	Ave	0.4679	0.3678		15.7	20.0	-21.4*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab Sample ID: CCVIS 460-534240/2 Calibration Date: 07/07/2018 08:47

Instrument ID: CVOAMS15 Calib Start Date: 06/20/2018 20:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/20/2018 23:42

Lab File ID: T09452.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Ave	0.3311	0.2826	0.1000	17.1	20.0	-14.7	20.0
Chlorobenzene	Ave	1.034	1.065	0.5000	20.6	20.0	2.9	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3512	0.2979		17.0	20.0	-15.2	20.0
Ethylbenzene	Ave	0.5757	0.5889	0.1000	20.5	20.0	2.3	20.0
m-Xylene & p-Xylene	Ave	0.7066	0.7151	0.1000	20.2	20.0	1.2	20.0
o-Xylene	Ave	0.6771	0.6828	0.3000	20.2	20.0	0.8	20.0
Styrene	Ave	1.137	1.149	0.3000	20.2	20.0	1.0	20.0
n-Butyl acrylate	Ave	0.2662	0.2138		16.1	20.0	-19.7	20.0
Bromoform	Ave	0.2127	0.0987*	0.1000	9.28	20.0	-53.6*	20.0
Isopropylbenzene	Ave	1.658	1.742	0.1000	21.0	20.0	5.0	20.0
Bromobenzene	Ave	0.8089	0.8103		20.0	20.0	0.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.7554	0.5903	0.3000	15.6	20.0	-21.9*	20.0
1,2,3-Trichloropropane	Ave	0.2598	0.1823		14.0	20.0	-29.8*	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2062	0.1266		12.3	20.0	-38.6*	20.0
N-Propylbenzene	Ave	3.643	3.836		21.1	20.0	5.3	20.0
2-Chlorotoluene	Ave	2.183	2.246		20.6	20.0	2.9	20.0
4-Ethyltoluene	Ave	3.050	3.126		20.5	20.0	2.5	20.0
4-Chlorotoluene	Ave	2.334	2.405		20.6	20.0	3.0	20.0
1,3,5-Trimethylbenzene	Ave	2.470	2.564		20.8	20.0	3.8	20.0
Butyl Methacrylate	Ave	0.8927	0.7796		17.5	20.0	-12.7	20.0
tert-Butylbenzene	Ave	2.185	2.192		20.1	20.0	0.3	20.0
1,2,4-Trimethylbenzene	Ave	2.543	2.622		20.6	20.0	3.1	20.0
sec-Butylbenzene	Ave	3.006	3.066		20.4	20.0	2.0	20.0
1,3-Dichlorobenzene	Ave	1.423	1.462	0.6000	20.5	20.0	2.7	20.0
1,4-Dichlorobenzene	Ave	1.427	1.499	0.5000	21.0	20.0	5.1	20.0
4-Isopropyltoluene	Ave	2.527	2.614		20.7	20.0	3.4	20.0
1,2,3-Trimethylbenzene	Ave	2.497	2.618		21.0	20.0	4.8	20.0
Benzyl chloride	Ave	1.523	0.6889		9.04	20.0	-54.8*	50.0
Indan	Ave	2.475	2.555		20.7	20.0	3.3	20.0
1,2-Dichlorobenzene	Ave	1.303	1.328	0.4000	20.4	20.0	1.9	20.0
p-Diethylbenzene	Ave	1.339	1.446		21.6	20.0	8.1	20.0
n-Butylbenzene	Ave	1.218	1.275		20.9	20.0	4.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1246	0.0578	0.0500	9.27	20.0	-53.7*	50.0
1,2,4,5-Tetramethylbenzene	Ave	2.072	1.946		18.8	20.0	-6.1	20.0
1,3,5-Trichlorobenzene	Ave	0.7767	0.7889		20.3	20.0	1.6	20.0
1,2,4-Trichlorobenzene	Ave	0.6856	0.6727	0.2000	19.6	20.0	-1.9	20.0
Hexachlorobutadiene	Ave	0.2711	0.2607		19.2	20.0	-3.8	20.0
Naphthalene	Ave	1.990	1.463		14.7	20.0	-26.5	50.0
1,2,3-Trichlorobenzene	Ave	0.6123	0.5498		18.0	20.0	-10.2	20.0
Dibromofluoromethane (Surr)	Ave	0.2061	0.2014		48.9	50.0	-2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2245	0.2063		45.9	50.0	-8.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Lab Sample ID: CCVIS 460-534240/2 Calibration Date: 07/07/2018 08:47

Instrument ID: CVOAMS15 Calib Start Date: 06/20/2018 20:46

GC Column: DB-624 ID: 0.18(mm) Calib End Date: 06/20/2018 23:42

Lab File ID: T09452.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	0.9789	0.9929		50.7	50.0	1.4	20.0
4-Bromofluorobenzene	Ave	0.3273	0.3912		59.8	50.0	19.5	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09452.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 07-Jul-2018 08:47:10 ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075030-002
Operator ID: Instrument ID: CVOAMS15
Sublist: chrom-8260W_15*sub3

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:36:36 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: colladox Date: 08-Jul-2018 18:35:23

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	92	18654	20.0	17.6	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	54403	20.0	19.9	
3 Chloromethane	50	1.033	1.033	0.000	99	45849	20.0	24.0	
4 Vinyl chloride	62	1.091	1.091	0.000	98	45546	20.0	23.1	
5 Butadiene	54	1.112	1.112	0.000	92	35689	20.0	22.1	
6 Bromomethane	94	1.269	1.269	0.000	96	6965	20.0	27.7	
7 Chloroethane	64	1.332	1.332	0.000	99	24337	20.0	68.9	
8 Dichlorofluoromethane	67	1.453	1.453	0.000	99	77669	20.0	27.2	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	99	80930	20.0	22.2	
10 Pentane	72	1.531	1.531	0.000	96	17471	40.0	43.1	
11 Ethanol	46	1.615	1.615	0.000	97	7370	800.0	947.1	
12 Ethyl ether	59	1.662	1.662	0.000	52	38070	20.0	20.5	
13 1,2-Dichloro-1,1,2-trifluo	117	1.662	1.662	0.000	89	44533	20.0	20.4	
14 2-Methyl-1,3-butadiene	53	1.668	1.668	0.000	81	41818	20.0	22.4	
15 Acrolein	56	1.736	1.736	0.000	95	8662	40.0	62.2	
16 1,1-Dichloroethene	96	1.794	1.794	0.000	99	47043	20.0	21.6	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	71	45184	20.0	20.8	
18 Acetone	43	1.830	1.830	0.000	89	42159	100.0	114.8	
19 Iodomethane	142	1.893	1.893	0.000	98	35291	20.0	17.2	
21 Carbon disulfide	76	1.930	1.930	0.000	99	125819	20.0	19.1	
20 Isopropyl alcohol	45	1.930	1.930	0.000	34	17038	200.0	197.1	
22 3-Chloro-1-propene	76	2.024	2.024	0.000	94	32018	20.0	18.4	
23 Methyl acetate	43	2.040	2.040	0.000	97	48725	40.0	31.2	
25 Cyclopentene	67	2.077	2.077	0.000	94	127392	20.0	23.8	
24 Acetonitrile	40	2.009	2.009	0.000	93	28576	200.0	235.5	a
26 Methylene Chloride	84	2.103	2.103	0.000	91	56354	20.0	21.3	
* 27 TBA-d9 (IS)	66	2.140	2.140	0.000	100	23604	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.192	2.192	0.000	99	32867	200.0	209.4	
29 Acrylonitrile	53	2.271	2.271	0.000	95	140584	200.0	162.9	
30 trans-1,2-Dichloroethene	96	2.292	2.292	0.000	91	55090	20.0	22.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Methyl tert-butyl ether	73	2.297	2.297	0.000	97	124885	20.0	19.1	
32 Hexane	57	2.491	2.491	0.000	89	60786	20.0	20.8	
33 1,1-Dichloroethane	63	2.590	2.590	0.000	100	96669	20.0	22.5	
34 Vinyl acetate	86	2.638	2.638	0.000	99	16874	40.0	41.6	
35 Isopropyl ether	45	2.659	2.659	0.000	91	150168	20.0	21.7	
36 2-Chloro-1,3-butadiene	88	2.659	2.659	0.000	73	51562	20.0	21.8	
37 Tert-butyl ethyl ether	59	2.937	2.937	0.000	89	139124	20.0	20.2	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	165172	250.0	250.0	
39 2,2-Dichloropropane	97	3.041	3.041	0.000	73	17778	20.0	18.6	
40 cis-1,2-Dichloroethene	96	3.041	3.041	0.000	94	63804	20.0	21.9	
41 2-Butanone (MEK)	43	3.062	3.062	0.000	98	70860	100.0	106.3	
42 Propionitrile	54	3.104	3.104	0.000	98	52485	200.0	255.5	
43 Ethyl acetate	70	3.120	3.120	0.000	99	7636	40.0	38.0	
44 Methyl acrylate	55	3.146	3.146	0.000	95	33078	20.0	13.9	
45 Methacrylonitrile	67	3.235	3.235	0.000	88	163240	200.0	166.3	
46 Chlorobromomethane	128	3.241	3.241	0.000	53	27846	20.0	22.2	
47 Tetrahydrofuran	72	3.288	3.288	0.000	82	9844	40.0	41.2	
48 Chloroform	83	3.314	3.314	0.000	100	97269	20.0	22.5	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	87635	50.0	48.9	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	95	79561	20.0	20.3	
51 Cyclohexane	84	3.519	3.519	0.000	89	75710	20.0	20.8	
52 Carbon tetrachloride	117	3.618	3.618	0.000	79	57448	20.0	17.3	
53 1,1-Dichloropropene	75	3.618	3.618	0.000	97	75554	20.0	22.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.749	3.749	0.000	97	89785	50.0	45.9	
54 Isobutyl alcohol	43	3.765	3.765	0.000	96	27868	500.0	493.2	
56 Benzene	78	3.807	3.807	0.000	96	222992	20.0	21.1	
57 1,2-Dichloroethane	62	3.823	3.823	0.000	64	65681	20.0	20.7	
58 Isooctane	57	3.901	3.901	0.000	100	115128	20.0	20.9	
59 Isopropyl acetate	61	3.912	3.912	0.000	79	13584	20.0	15.8	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	94	126353	20.0	18.6	
* 61 Fluorobenzene	96	4.080	4.080	0.000	98	435217	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	53	49090	20.0	20.0	
63 n-Butanol	56	4.441	4.441	0.000	53	18213	500.0	447.0	
64 Trichloroethene	95	4.452	4.452	0.000	98	56684	20.0	20.5	
65 Ethyl acrylate	55	4.604	4.604	0.000	98	42214	20.0	13.9	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	79056	20.0	20.3	
67 1,2-Dichloropropane	63	4.682	4.682	0.000	90	55186	20.0	22.4	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	35	20841	1000.0	1000.0	
69 Dibromomethane	93	4.803	4.803	0.000	96	29337	20.0	18.3	
70 1,4-Dioxane	88	4.856	4.856	0.000	36	9835	400.0	471.0	
71 Methyl methacrylate	100	4.856	4.856	0.000	85	19877	40.0	28.6	
72 n-Propyl acetate	43	4.939	4.939	0.000	97	45441	20.0	15.0	
73 Dichlorobromomethane	83	4.997	4.997	0.000	99	58326	20.0	17.5	
74 2-Nitropropane	41	5.270	5.270	0.000	96	8822	40.0	17.1	
75 2-Chloroethyl vinyl ether	63	5.380	5.380	0.000	95	27824	20.0	17.7	
76 Epichlorohydrin	57	5.427	5.427	0.000	99	71558	400.0	433.9	
77 cis-1,3-Dichloropropene	75	5.527	5.527	0.000	90	76147	20.0	19.4	
78 4-Methyl-2-pentanone (MIBK	43	5.747	5.747	0.000	94	147701	100.0	114.2	
$ 79 Toluene-d8 (Surr)	98	5.846	5.846	0.000	99	342618	50.0	50.7	
80 Toluene	91	5.930	5.930	0.000	93	227603	20.0	21.0	
81 trans-1,3-Dichloropropene	75	6.240	6.240	0.000	94	60454	20.0	16.9	
82 Ethyl methacrylate	69	6.418	6.418	0.000	86	50355	20.0	16.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	6.465	6.465	0.000	94	33397	20.0	18.8	
84 Tetrachloroethene	166	6.633	6.633	0.000	97	59044	20.0	21.2	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	89	72235	20.0	19.5	
86 2-Hexanone	43	6.858	6.858	0.000	94	99195	100.0	107.2	
87 Chlorodibromomethane	129	6.979	6.979	0.000	96	31291	20.0	13.0	
88 n-Butyl acetate	43	7.084	7.084	0.000	97	50759	20.0	15.7	
89 Ethylene Dibromide	107	7.105	7.105	0.000	98	39001	20.0	17.1	
* 90 Chlorobenzene-d5	117	7.792	7.792	0.000	86	345062	50.0	50.0	
91 Chlorobenzene	112	7.828	7.828	0.000	94	146935	20.0	20.6	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	93	41115	20.0	17.0	
93 Ethylbenzene	106	8.033	8.033	0.000	98	81282	20.0	20.5	
94 m-Xylene & p-Xylene	106	8.222	8.222	0.000	96	98700	20.0	20.2	
95 o-Xylene	106	8.809	8.809	0.000	94	94243	20.0	20.2	
96 Styrene	104	8.840	8.840	0.000	92	158598	20.0	20.2	
97 n-Butyl acrylate	73	8.893	8.893	0.000	97	29513	20.0	16.1	
98 Bromoform	173	9.071	9.071	0.000	94	13626	20.0	9.28	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	92	61552	20.0	16.2	
100 Isopropylbenzene	105	9.417	9.417	0.000	96	240393	20.0	21.0	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	134991	50.0	59.8	
102 Bromobenzene	156	9.815	9.815	0.000	98	59036	20.0	20.0	
103 1,1,2,2-Tetrachloroethane	83	9.931	9.931	0.000	94	43007	20.0	15.6	
104 1,2,3-Trichloropropane	110	9.952	9.952	0.000	92	13284	20.0	14.0	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	76	9227	20.0	12.3	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	279477	20.0	21.1	
107 2-Chlorotoluene	91	10.167	10.167	0.000	96	163637	20.0	20.6	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	227735	20.0	20.5	
109 4-Chlorotoluene	91	10.356	10.356	0.000	98	175193	20.0	20.6	
110 1,3,5-Trimethylbenzene	105	10.403	10.403	0.000	92	186795	20.0	20.8	
111 Butyl Methacrylate	87	10.686	10.686	0.000	87	56800	20.0	17.5	
112 tert-Butylbenzene	119	10.922	10.922	0.000	89	159733	20.0	20.1	
118 1,2,4-Trimethylbenzene	105	11.006	11.006	0.000	97	191012	20.0	20.6	
113 sec-Butylbenzene	105	11.278	11.278	0.000	98	223385	20.0	20.4	
114 1,3-Dichlorobenzene	146	11.373	11.373	0.000	96	106513	20.0	20.5	
* 115 1,4-Dichlorobenzene-d4	152	11.478	11.478	0.000	96	182150	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	93	109222	20.0	21.0	
117 4-Isopropyltoluene	119	11.525	11.525	0.000	93	190459	20.0	20.7	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	190719	20.0	21.0	
119 Benzyl chloride	91	11.729	11.729	0.000	98	50191	20.0	9.04	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	186173	20.0	20.7	
121 1,2-Dichlorobenzene	146	11.997	11.997	0.000	96	96739	20.0	20.4	
122 p-Diethylbenzene	119	12.044	12.044	0.000	92	105385	20.0	21.6	
123 n-Butylbenzene	92	12.070	12.070	0.000	96	92886	20.0	20.9	
124 1,2-Dibromo-3-Chloropropan	155	12.904	12.904	0.000	64	4208	20.0	9.27	
125 1,2,4,5-Tetramethylbenzene	119	12.925	12.925	0.000	97	141812	20.0	18.8	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	57478	20.0	20.3	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	93	49014	20.0	19.6	
128 Hexachlorobutadiene	225	13.900	13.900	0.000	73	18995	20.0	19.2	
129 Naphthalene	128	13.926	13.926	0.000	99	106629	20.0	14.7	
130 1,2,3-Trichlorobenzene	180	14.141	14.141	0.000	94	40061	20.0	18.0	
S 131 1,2-Dichloroethene, Total	100				0		40.0	44.0	
S 132 Xylenes, Total	100				0		40.0	40.4	
S 136 1,3-Dichloropropene, Total	1				0		40.0	36.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 133 Total BTEX	1				0		100.0	103.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Jul-2018 19:36:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09452.D

Injection Date: 07-Jul-2018 08:47:10 Instrument ID: CVOAMS15

Lims ID: CCVIS

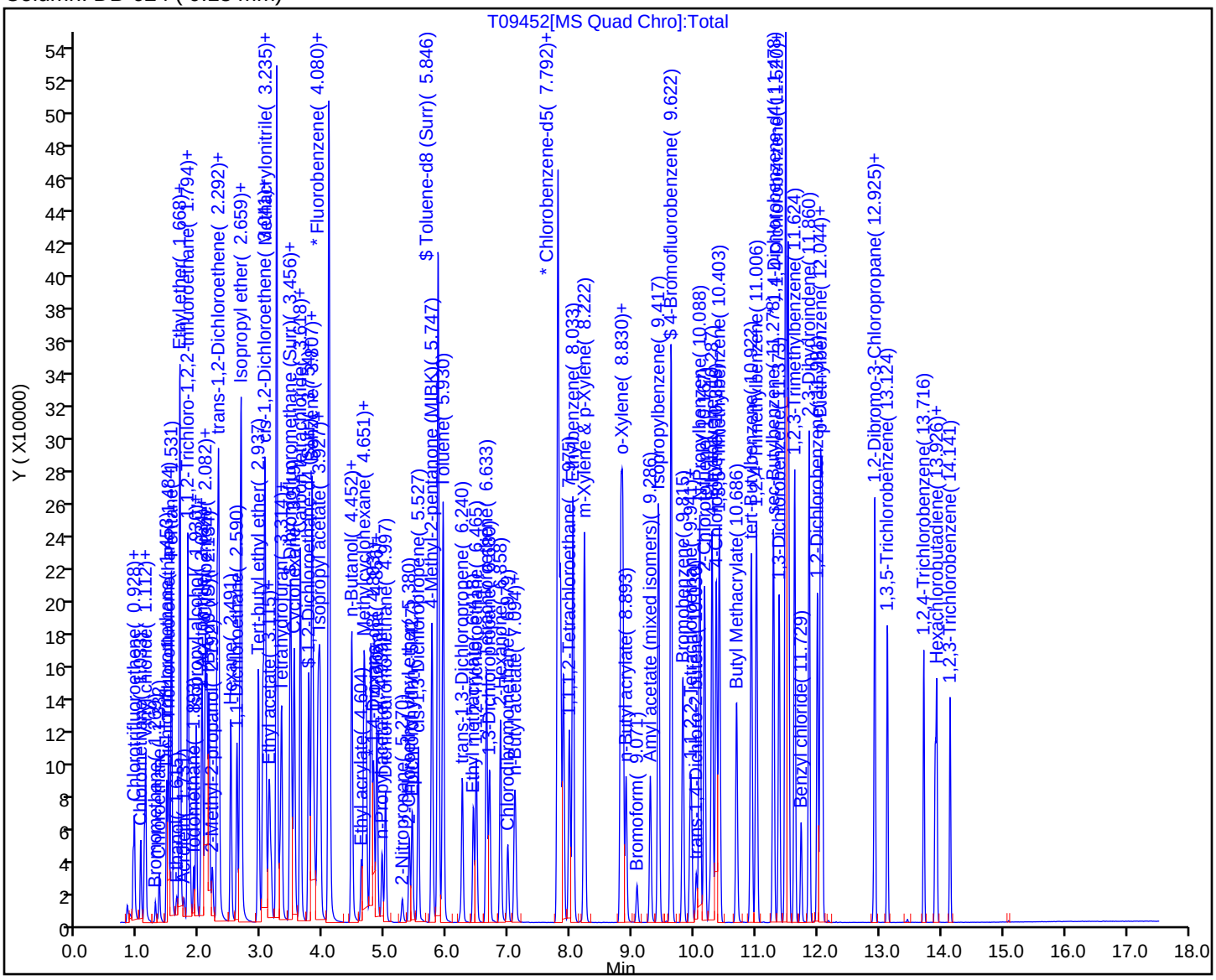
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 2

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

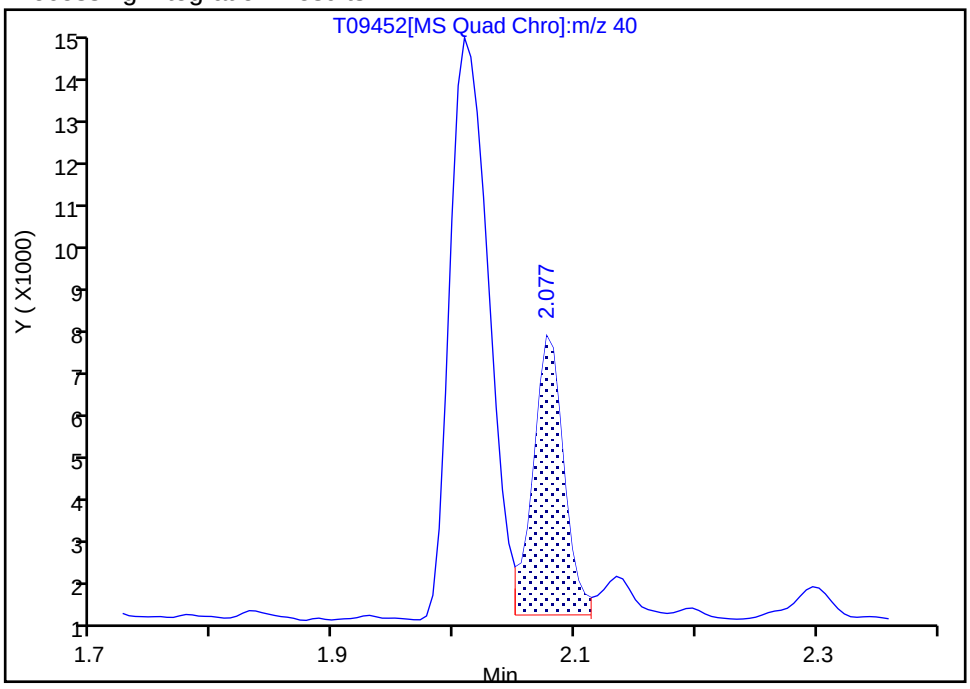
Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09452.D
Injection Date: 07-Jul-2018 08:47:10 Instrument ID: CVOAMS15
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

24 Acetonitrile, CAS: 75-05-8

Signal: 1

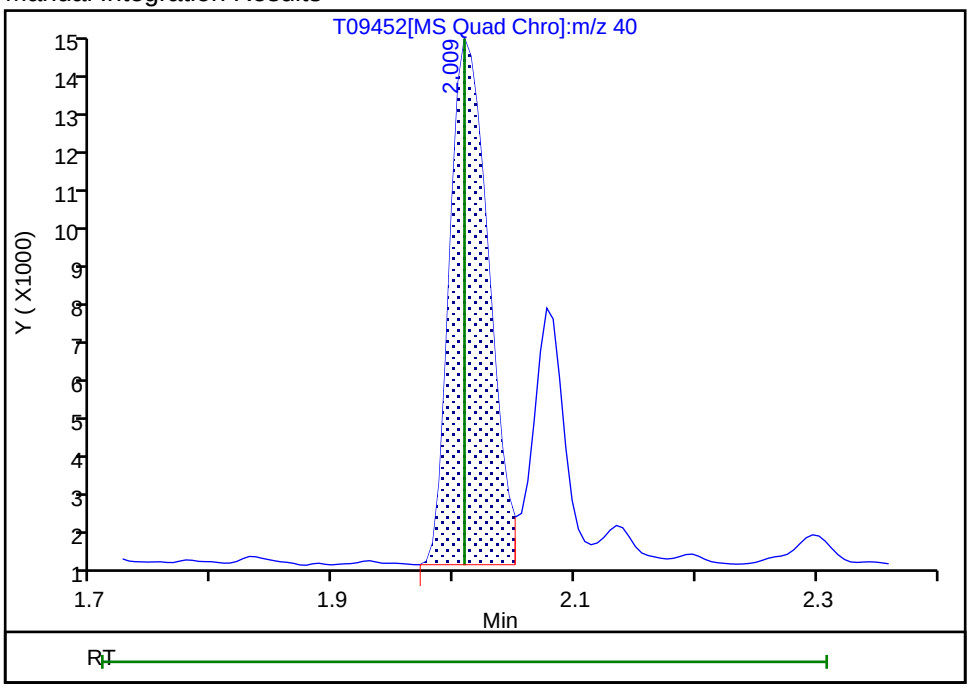
Processing Integration Results

RT: 2.08
Area: 10935
Amount: 90.132113
Amount Units: ug/l



Manual Integration Results

RT: 2.01
Area: 28576
Amount: 235.5387
Amount Units: ug/l



Reviewer: delpolitov, 09-Jul-2018 19:36:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08675.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 20-Jun-2018 20:18:41 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074090-001
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 21-Jun-2018 08:18:16 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK006

First Level Reviewer: desais Date: 21-Jun-2018 08:01:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.470	2.470	0.000	0	62505	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

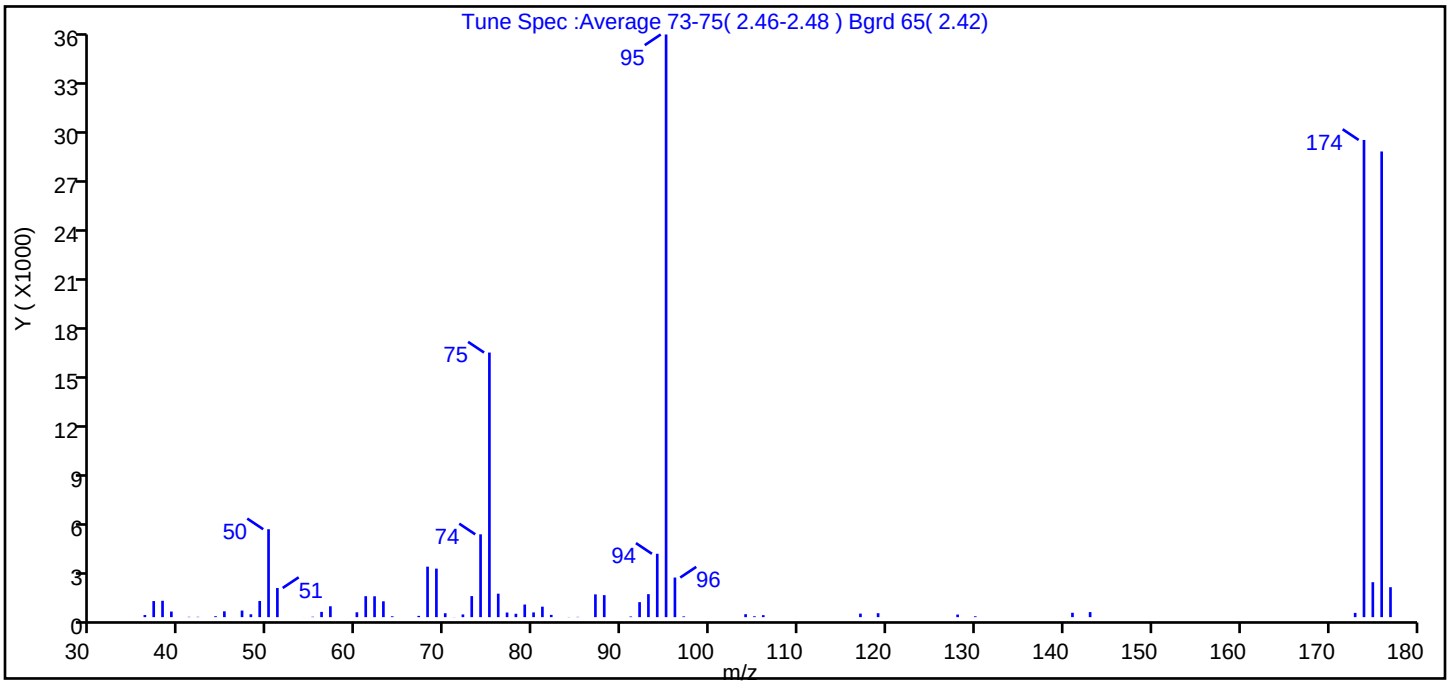
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08675.D
Injection Date: 20-Jun-2018 20:18:41 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.1
75	30 to 60% of m/z 95	45.4
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	0.7 (0.9)
174	50 to 120% of m/z 95	81.9
175	5 to 9% of m/z 174	6.0 (7.3)
176	Greater than 95% but less than 101% of m/z 174	79.9 (97.6)
177	5 to 9% of m/z 176	5.1 (6.4)

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08675.D\8260W_15.rslt\spectra.d
Injection Date: 20-Jun-2018 20:18:41
Spectrum: Tune Spec :Average 73-75(2.46-2.48) Bgrd 65(2.42)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 63

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	130	57.00	671	77.00	285	97.00	46
37.00	993	60.00	300	78.00	208	104.00	182
38.00	1011	61.00	1294	79.00	779	105.00	55
39.00	345	62.00	1288	80.00	291	106.00	123
41.00	21	63.00	979	81.00	646	117.00	218
42.00	21	64.00	53	82.00	139	119.00	243
44.00	58	67.00	78	84.00	10	128.00	160
45.00	359	68.00	3117	85.00	17	130.00	53
47.00	407	69.00	2997	87.00	1406	141.00	270
48.00	177	70.00	241	88.00	1360	143.00	312
49.00	999	71.00	7	91.00	40	173.00	263
50.00	5428	72.00	168	92.00	925	174.00	29464
51.00	1801	73.00	1300	93.00	1419	175.00	2158
54.00	2	74.00	5113	94.00	3912	176.00	28752
55.00	25	75.00	16338	95.00	35976	177.00	1848
56.00	325	76.00	1449	96.00	2445		

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09451.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	07-Jul-2018 08:24:13	ALS Bottle#:	0	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0075030-001				
Operator ID:		Instrument ID:	CVOAMS15		
Method:	\\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	07-Jul-2018 11:52:01	Calib Date:	20-Jun-2018 23:42:43		
Integrator:	RTE	ID Type:	RT Order ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D				
Column 1 :	DB-624 (0.18 mm)		Det: MS Quad		
Process Host:	XAWRK006				
First Level Reviewer: desais		Date:	07-Jul-2018 09:04:12		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.444	2.444	0.000	0	33628	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

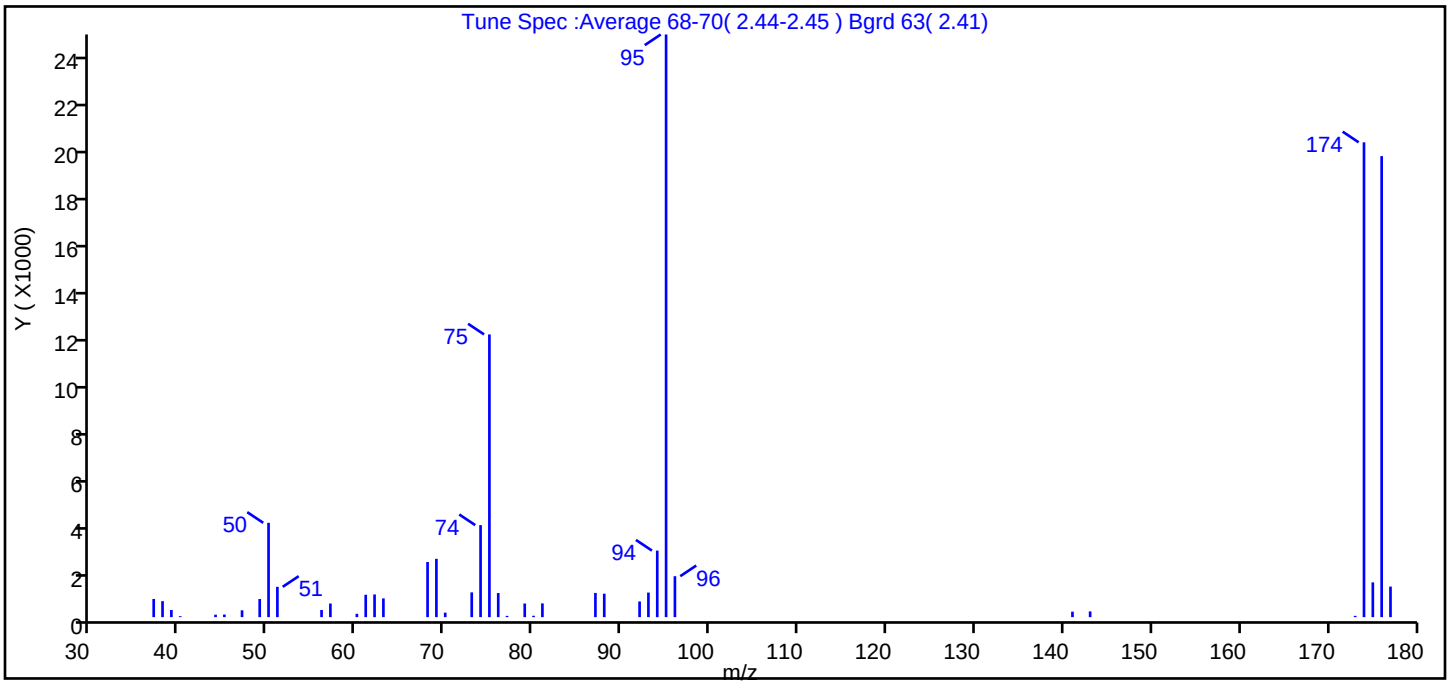
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09451.D
Injection Date: 07-Jul-2018 08:24:13 Instrument ID: CVOAMS15
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.2
75	30 to 60% of m/z 95	48.5
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.2 (0.3)
174	50 to 120% of m/z 95	81.5
175	5 to 9% of m/z 174	6.0 (7.3)
176	Greater than 95% but less than 101% of m/z 174	79.1 (97.1)
177	5 to 9% of m/z 176	5.2 (6.6)

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09451.D\8260W_15.rslt\spectra.d
Injection Date: 07-Jul-2018 08:24:13
Spectrum: Tune Spec :Average 68-70(2.44-2.45) Bgrd 63(2.41)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	770	57.00	578	76.00	1021	96.00	1734
38.00	678	60.00	141	77.00	53	141.00	233
39.00	304	61.00	948	79.00	577	143.00	243
40.00	40	62.00	961	80.00	59	173.00	55
44.00	104	63.00	794	81.00	582	174.00	20112
45.00	111	68.00	2335	87.00	1026	175.00	1472
47.00	290	69.00	2471	88.00	994	176.00	19528
49.00	768	70.00	191	92.00	665	177.00	1295
50.00	3995	73.00	1049	93.00	1041		
51.00	1284	74.00	3898	94.00	2819		
56.00	304	75.00	11975	95.00	24680		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534240/7

Matrix: Water | Lab File ID: T09457.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534240/7

Matrix: Water | Lab File ID: T09457.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 11:01

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	116		77-124
2037-26-5	Toluene-d8 (Surr)	106		80-120
1868-53-7	Dibromofluoromethane (Surr)	107		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09457.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 07-Jul-2018 11:01:43 ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075030-007
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:42:56 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: delpolitov Date: 09-Jul-2018 19:42:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
19 Iodomethane	142	1.893	1.893	0.000	1	400		0.2072	
* 27 TBA-d9 (IS)	66	2.134	2.140	-0.006	99	20073	1000.0	1000.0	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	143114	250.0	250.0	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	89822	50.0	53.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.749	0.005	97	95408	50.0	52.3	
* 61 Fluorobenzene	96	4.079	4.080	-0.001	99	406554	50.0	50.0	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	23	19426	1000.0	1000.0	
$ 79 Toluene-d8 (Surr)	98	5.852	5.846	0.006	99	347014	50.0	53.1	
* 90 Chlorobenzene-d5	117	7.791	7.792	-0.001	86	334074	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	126730	50.0	57.9	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.478	0.005	95	173581	50.0	50.0	

Reagents:

VOA6IS ONLY_00008 Amount Added: 5.00 Units: uL Run Reagent
SURR50_00005 Amount Added: 5.00 Units: uL Run Reagent

Report Date: 09-Jul-2018 19:42:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09457.D

Injection Date: 07-Jul-2018 11:01:43 Instrument ID: CVOAMS15

Lims ID: MB

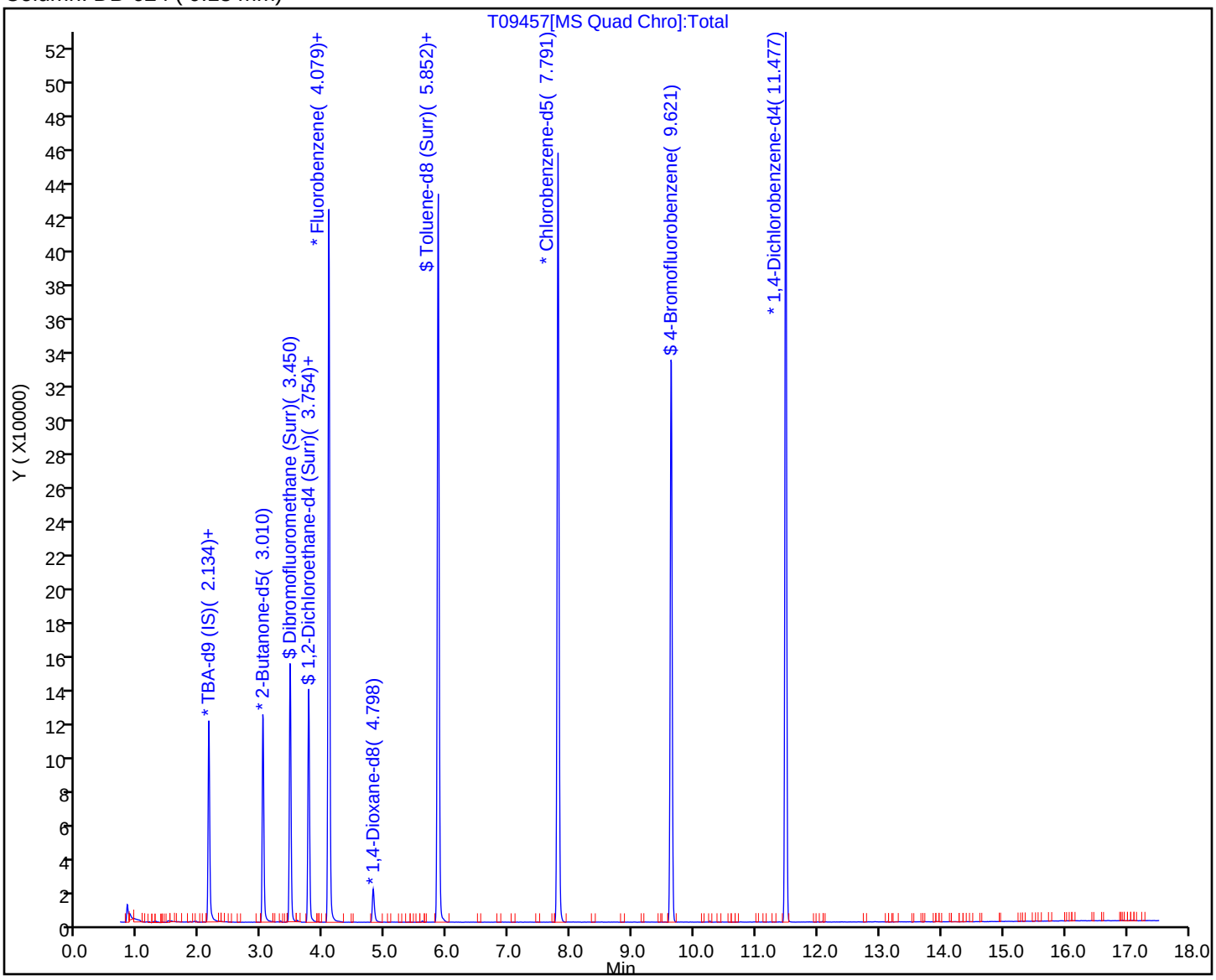
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



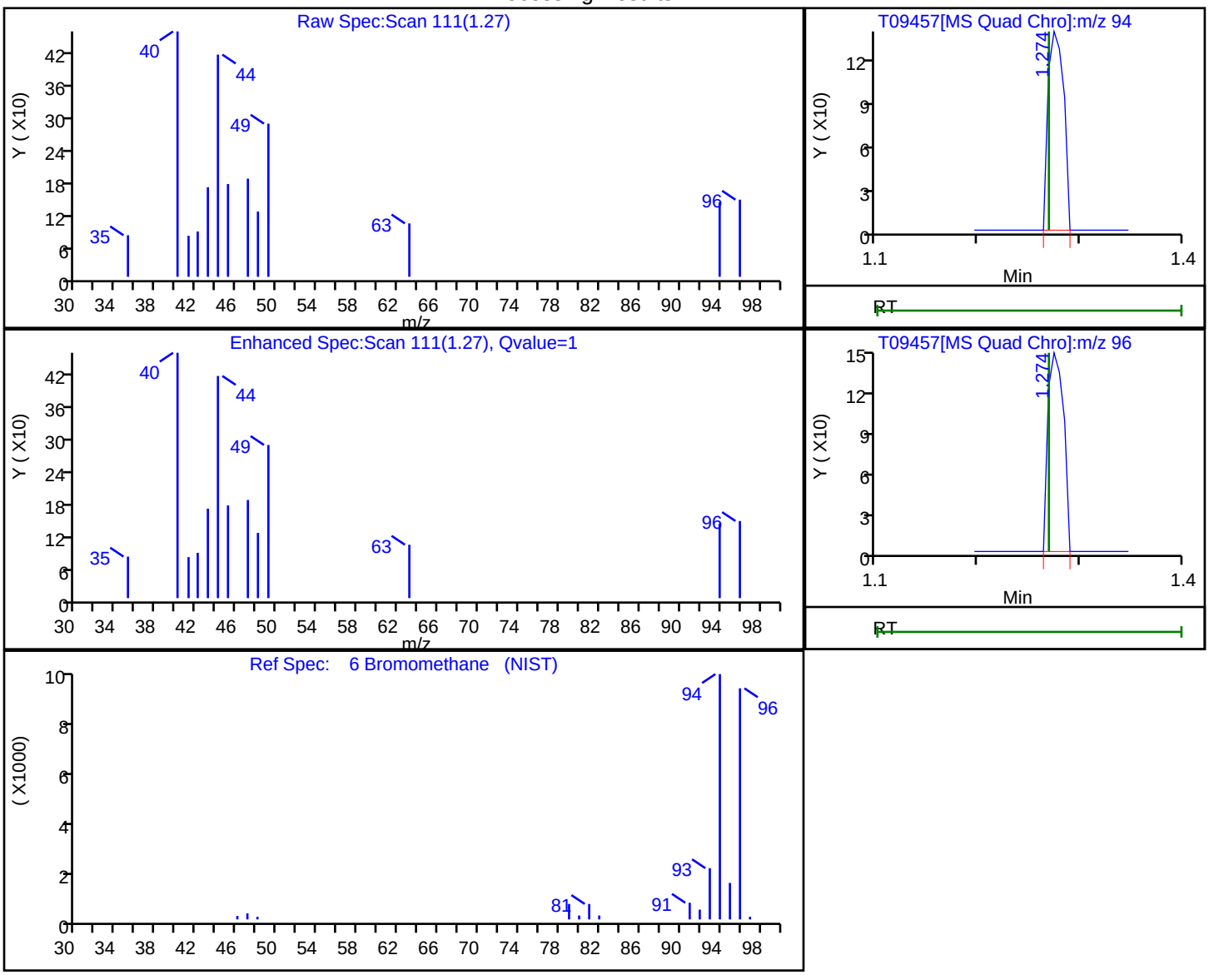
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09457.D
Injection Date: 07-Jul-2018 11:01:43 Instrument ID: CVOAMS15
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 0 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid
Column: DB-624 (0.18 mm) Detector MS Quad

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.27	94.00	147	0.674252
1.27	96.00	152	

Reviewer: desais, 07-Jul-2018 11:29:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534240/3

Matrix: Water | Lab File ID: T09453.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 09:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	15.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.1		1.0	0.43
75-34-3	1,1-Dichloroethane	21.9		1.0	0.26
75-35-4	1,1-Dichloroethene	20.7		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	20.0		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	9.78		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.7		1.0	0.43
107-06-2	1,2-Dichloroethane	20.6		1.0	0.43
78-87-5	1,2-Dichloropropane	22.2		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.6		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.0		1.0	0.76
78-93-3	2-Butanone (MEK)	107		5.0	1.9
591-78-6	2-Hexanone	109		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	116		5.0	2.7
67-64-1	Acetone	115		5.0	5.0
71-43-2	Benzene	20.7		1.0	0.43
75-25-2	Bromoform	9.50		1.0	0.54
74-83-9	Bromomethane	25.9		1.0	1.0
75-15-0	Carbon disulfide	18.0		1.0	0.16
56-23-5	Carbon tetrachloride	16.9		1.0	0.21
108-90-7	Chlorobenzene	20.4		1.0	0.38
124-48-1	Dibromochloromethane	13.3		1.0	0.28
75-00-3	Chloroethane	59.0		1.0	0.32
67-66-3	Chloroform	22.0		1.0	0.33
74-87-3	Chloromethane	22.1		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	21.3		1.0	0.22
110-82-7	Cyclohexane	19.8		1.0	0.32
75-27-4	Bromodichloromethane	17.5		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.0		1.0	0.12
100-41-4	Ethylbenzene	20.0		1.0	0.30
106-93-4	1,2-Dibromoethane	17.6		1.0	0.50
98-82-8	Isopropylbenzene	20.7		1.0	0.34
79-20-9	Methyl acetate	31.9		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534240/3

Matrix: Water | Lab File ID: T09453.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 09:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.4		1.0	0.47
108-87-2	Methylcyclohexane	19.6		1.0	0.26
75-09-2	Methylene Chloride	20.8		1.0	0.32
127-18-4	Tetrachloroethene	20.4		1.0	0.25
108-88-3	Toluene	20.8		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	21.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	17.3		1.0	0.49
79-01-6	Trichloroethene	20.1		1.0	0.31
75-69-4	Trichlorofluoromethane	21.3		1.0	0.14
75-01-4	Vinyl chloride	21.1		1.0	0.17
1330-20-7	Xylenes, Total	40.2		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.5		1.0	0.46
100-42-5	Styrene	20.1		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	122		77-124
2037-26-5	Toluene-d8 (Surr)	104		80-120
1868-53-7	Dibromofluoromethane (Surr)	99		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09453.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 07-Jul-2018 09:12:06 ALS Bottle#: 0 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075030-003
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:37:49 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: desais Date: 07-Jul-2018 11:27:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	92	18136	20.0	17.2	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	51594	20.0	19.0	
3 Chloromethane	50	1.033	1.033	0.000	99	42035	20.0	22.1	
4 Vinyl chloride	62	1.091	1.091	0.000	99	41354	20.0	21.1	
5 Butadiene	54	1.112	1.112	0.000	92	31881	20.0	19.8	
6 Bromomethane	94	1.269	1.269	0.000	97	6587	20.0	25.9	
7 Chloroethane	64	1.332	1.332	0.000	99	21038	20.0	59.0	
8 Dichlorofluoromethane	67	1.453	1.453	0.000	99	72401	20.0	25.6	
9 Trichlorofluoromethane	101	1.479	1.479	0.000	99	77143	20.0	21.3	
10 Pentane	72	1.526	1.526	0.000	96	16232	40.0	40.3	
11 Ethanol	46	1.615	1.615	0.000	98	8147	800.0	996.8	
12 Ethyl ether	59	1.662	1.662	0.000	53	37915	20.0	20.5	
13 1,2-Dichloro-1,1,2-trifluo	117	1.662	1.662	0.000	89	42463	20.0	19.6	
14 2-Methyl-1,3-butadiene	53	1.668	1.668	0.000	81	39563	20.0	21.3	
15 Acrolein	56	1.736	1.736	0.000	95	8893	40.0	60.7	
16 1,1-Dichloroethene	96	1.793	1.793	0.000	99	44955	20.0	20.7	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	72	42896	20.0	19.8	
18 Acetone	43	1.830	1.830	0.000	89	42721	100.0	115.2	
19 Iodomethane	142	1.893	1.893	0.000	98	35779	20.0	17.5	
21 Carbon disulfide	76	1.930	1.930	0.000	99	118278	20.0	18.0	
20 Isopropyl alcohol	45	1.930	1.930	0.000	36	19339	200.0	213.0	
24 Acetonitrile	40	2.008	2.008	0.000	94	29169	200.0	238.0	a
22 3-Chloro-1-propene	76	2.024	2.024	0.000	94	30764	20.0	17.8	
23 Methyl acetate	43	2.040	2.040	0.000	97	49604	40.0	31.9	
25 Cyclopentene	67	2.077	2.077	0.000	94	121182	20.0	22.8	
26 Methylene Chloride	84	2.108	2.108	0.000	90	54789	20.0	20.8	
* 27 TBA-d9 (IS)	66	2.139	2.139	0.000	100	24822	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.192	2.192	0.000	99	34434	200.0	208.6	
29 Acrylonitrile	53	2.270	2.270	0.000	95	141129	200.0	164.6	
30 trans-1,2-Dichloroethene	96	2.291	2.291	0.000	89	53221	20.0	21.5	
31 Methyl tert-butyl ether	73	2.297	2.297	0.000	97	126302	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.491	2.491	0.000	89	57561	20.0	19.8	
33 1,1-Dichloroethane	63	2.590	2.590	0.000	100	93706	20.0	21.9	
34 Vinyl acetate	86	2.638	2.638	0.000	99	16462	40.0	40.2	
35 Isopropyl ether	45	2.658	2.658	0.000	90	150804	20.0	21.9	
36 2-Chloro-1,3-butadiene	88	2.664	2.664	0.000	76	49448	20.0	21.1	
37 Tert-butyl ethyl ether	59	2.942	2.942	0.000	90	141116	20.0	20.7	
* 38 2-Butanone-d5	46	3.015	3.015	0.000	98	166891	250.0	250.0	
39 2,2-Dichloropropane	97	3.041	3.041	0.000	72	17040	20.0	17.9	
40 cis-1,2-Dichloroethene	96	3.041	3.041	0.000	94	61736	20.0	21.3	
41 2-Butanone (MEK)	43	3.062	3.062	0.000	98	72154	100.0	107.1	
42 Propionitrile	54	3.104	3.104	0.000	98	53480	200.0	247.6	
43 Ethyl acetate	70	3.125	3.125	0.000	99	7762	40.0	38.2	
44 Methyl acrylate	55	3.146	3.146	0.000	95	34271	20.0	14.5	
45 Methacrylonitrile	67	3.235	3.235	0.000	88	166556	200.0	170.8	
46 Chlorobromomethane	128	3.240	3.240	0.000	52	27426	20.0	22.0	
47 Tetrahydrofuran	72	3.288	3.288	0.000	82	9842	40.0	40.7	
48 Chloroform	83	3.314	3.314	0.000	99	94439	20.0	22.0	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	88111	50.0	49.4	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	95	76163	20.0	19.6	
51 Cyclohexane	84	3.518	3.518	0.000	88	71717	20.0	19.8	
52 Carbon tetrachloride	117	3.618	3.618	0.000	80	55549	20.0	16.9	
53 1,1-Dichloropropene	75	3.618	3.618	0.000	98	72466	20.0	21.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.754	3.754	0.000	96	89787	50.0	46.2	
54 Isobutyl alcohol	43	3.770	3.770	0.000	90	31164	500.0	524.5	
56 Benzene	78	3.807	3.807	0.000	96	215886	20.0	20.7	
57 1,2-Dichloroethane	62	3.822	3.822	0.000	62	64882	20.0	20.6	
58 Isooctane	57	3.901	3.901	0.000	99	111177	20.0	20.3	
59 Isopropyl acetate	61	3.917	3.917	0.000	93	14279	20.0	16.7	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	93	131085	20.0	19.4	
* 61 Fluorobenzene	96	4.079	4.079	0.000	98	432434	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	51	47156	20.0	19.3	
63 n-Butanol	56	4.441	4.441	0.000	59	20681	500.0	482.7	
64 Trichloroethene	95	4.452	4.452	0.000	99	55137	20.0	20.1	
65 Ethyl acrylate	55	4.609	4.609	0.000	98	42694	20.0	14.2	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	75848	20.0	19.6	
67 1,2-Dichloropropane	63	4.682	4.682	0.000	90	54371	20.0	22.2	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	39	21884	1000.0	1000.0	
69 Dibromomethane	93	4.803	4.803	0.000	96	29316	20.0	18.4	
70 1,4-Dioxane	88	4.855	4.855	0.000	37	10466	400.0	477.3	
71 Methyl methacrylate	100	4.861	4.861	0.000	85	20728	40.0	30.0	
72 n-Propyl acetate	43	4.944	4.944	0.000	97	46795	20.0	15.5	
73 Dichlorobromomethane	83	4.997	4.997	0.000	99	58055	20.0	17.5	
74 2-Nitropropane	41	5.270	5.270	0.000	95	9243	40.0	18.0	
75 2-Chloroethyl vinyl ether	63	5.385	5.385	0.000	95	28096	20.0	18.0	
76 Epichlorohydrin	57	5.432	5.432	0.000	99	74369	400.0	446.3	
77 cis-1,3-Dichloropropene	75	5.532	5.532	0.000	89	75711	20.0	19.5	
78 4-Methyl-2-pentanone (MIBK	43	5.752	5.752	0.000	94	151205	100.0	115.7	
$ 79 Toluene-d8 (Surr)	98	5.852	5.852	0.000	99	346125	50.0	52.0	
80 Toluene	91	5.930	5.930	0.000	93	222090	20.0	20.8	
81 trans-1,3-Dichloropropene	75	6.240	6.240	0.000	94	60954	20.0	17.3	
82 Ethyl methacrylate	69	6.423	6.423	0.000	86	51087	20.0	16.8	
83 1,1,2-Trichloroethane	83	6.470	6.470	0.000	94	33449	20.0	19.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.633	6.633	0.000	97	56100	20.0	20.4	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	89	73237	20.0	20.0	
86 2-Hexanone	43	6.858	6.858	0.000	94	101904	100.0	109.0	
87 Chlorodibromomethane	129	6.979	6.979	0.000	96	31697	20.0	13.3	
88 n-Butyl acetate	43	7.084	7.084	0.000	97	52341	20.0	16.5	
89 Ethylene Dibromide	107	7.105	7.105	0.000	97	39712	20.0	17.6	
* 90 Chlorobenzene-d5	117	7.791	7.791	0.000	86	340018	50.0	50.0	
91 Chlorobenzene	112	7.833	7.833	0.000	94	143346	20.0	20.4	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	93	40708	20.0	17.0	
93 Ethylbenzene	106	8.033	8.033	0.000	98	78297	20.0	20.0	
94 m-Xylene & p-Xylene	106	8.221	8.221	0.000	96	96489	20.0	20.1	
95 o-Xylene	106	8.814	8.814	0.000	93	92433	20.0	20.1	
96 Styrene	104	8.840	8.840	0.000	92	155528	20.0	20.1	
97 n-Butyl acrylate	73	8.893	8.893	0.000	97	30669	20.0	16.9	
98 Bromoform	173	9.071	9.071	0.000	94	13742	20.0	9.50	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	92	63589	20.0	17.1	
100 Isopropylbenzene	105	9.422	9.422	0.000	96	233258	20.0	20.7	
$ 101 4-Bromofluorobenzene	174	9.627	9.627	0.000	0	135373	50.0	60.8	
102 Bromobenzene	156	9.815	9.815	0.000	99	57947	20.0	20.0	
103 1,1,2,2-Tetrachloroethane	83	9.931	9.931	0.000	93	42763	20.0	15.8	
104 1,2,3-Trichloropropane	110	9.957	9.957	0.000	94	13656	20.0	14.7	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	73	9304	20.0	12.6	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	270353	20.0	20.7	
107 2-Chlorotoluene	91	10.167	10.167	0.000	96	160282	20.0	20.5	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	222885	20.0	20.4	
109 4-Chlorotoluene	91	10.355	10.355	0.000	98	172189	20.0	20.6	
110 1,3,5-Trimethylbenzene	105	10.403	10.403	0.000	92	181837	20.0	20.5	
111 Butyl Methacrylate	87	10.686	10.686	0.000	87	57288	20.0	17.9	
112 tert-Butylbenzene	119	10.922	10.922	0.000	89	155599	20.0	19.9	
118 1,2,4-Trimethylbenzene	105	11.006	11.006	0.000	97	187150	20.0	20.5	
113 sec-Butylbenzene	105	11.283	11.283	0.000	98	218361	20.0	20.3	
114 1,3-Dichlorobenzene	146	11.373	11.373	0.000	96	105242	20.0	20.6	
* 115 1,4-Dichlorobenzene-d4	152	11.483	11.483	0.000	95	179255	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	93	107341	20.0	21.0	
117 4-Isopropyltoluene	119	11.525	11.525	0.000	93	184609	20.0	20.4	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	187289	20.0	20.9	
119 Benzyl chloride	91	11.729	11.729	0.000	98	51116	20.0	9.36	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	184807	20.0	20.8	
121 1,2-Dichlorobenzene	146	11.996	11.996	0.000	96	96592	20.0	20.7	
122 p-Diethylbenzene	119	12.044	12.044	0.000	92	100922	20.0	21.0	
123 n-Butylbenzene	92	12.070	12.070	0.000	96	90241	20.0	20.7	
124 1,2-Dibromo-3-Chloropropan	155	12.904	12.904	0.000	71	4368	20.0	9.78	
125 1,2,4,5-Tetramethylbenzene	119	12.924	12.924	0.000	96	140408	20.0	18.9	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	96	57177	20.0	20.5	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	93	49165	20.0	20.0	
128 Hexachlorobutadiene	225	13.905	13.905	0.000	75	18751	20.0	19.3	
129 Naphthalene	128	13.926	13.926	0.000	99	112205	20.0	15.7	
130 1,2,3-Trichlorobenzene	180	14.146	14.146	0.000	94	42136	20.0	19.2	
S 131 1,2-Dichloroethene, Total	100				0		40.0	42.8	
S 132 Xylenes, Total	100				0		40.0	40.2	
S 134 Total 1,2-dichloroethene	1				0			42.8	
S 136 1,3-Dichloropropene, Total	1				0		40.0	36.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
S 133 Total BTEX	1				0		100.0	101.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Jul-2018 19:37:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09453.D

Injection Date: 07-Jul-2018 09:12:06 Instrument ID: CVOAMS15

Lims ID: LCS

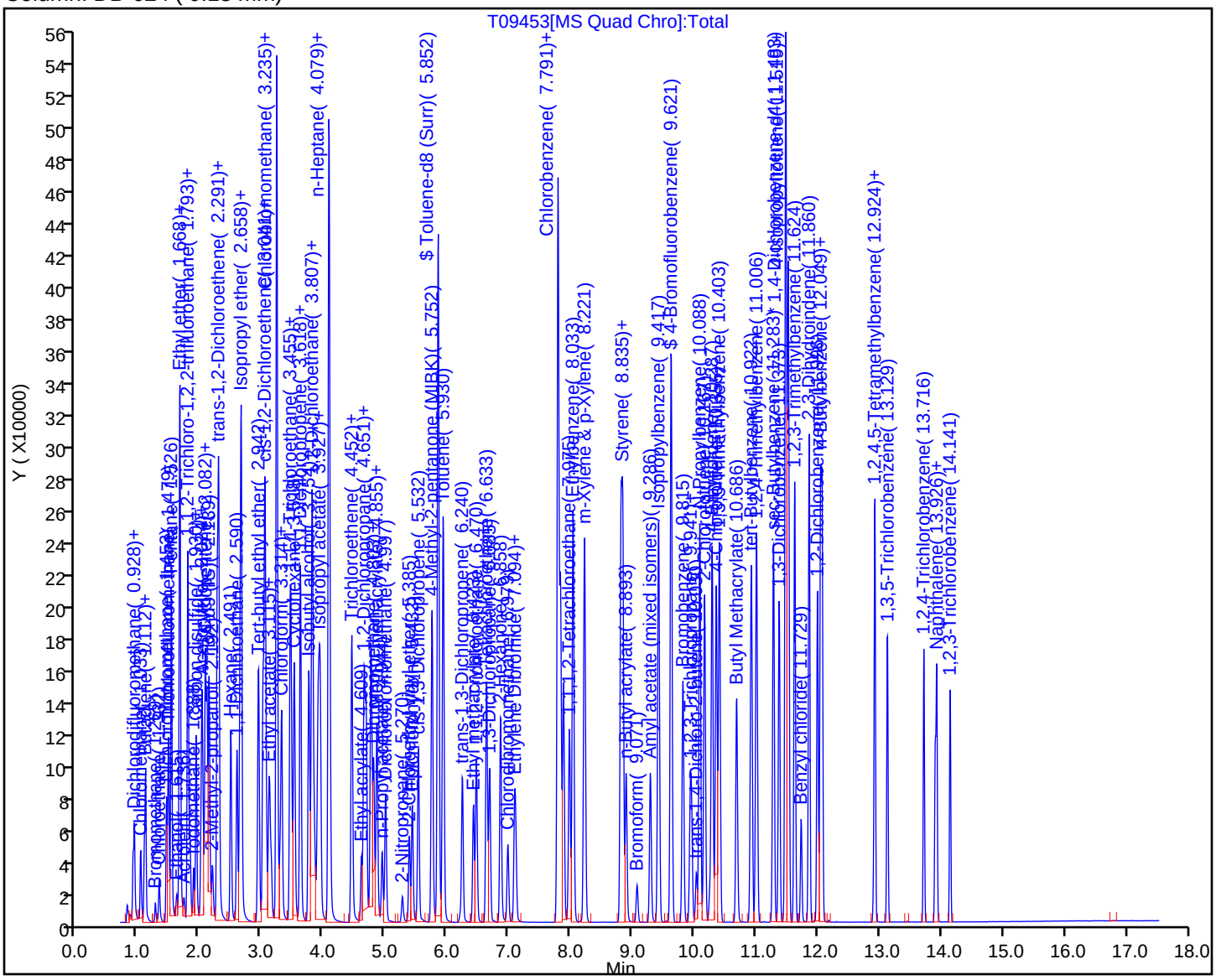
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 3

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534240/4

Matrix: Water | Lab File ID: T09454.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 09:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	17.3		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.4		1.0	0.43
75-34-3	1,1-Dichloroethane	24.1		1.0	0.26
75-35-4	1,1-Dichloroethene	23.0		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	22.3		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	10.7		1.0	0.38
95-50-1	1,2-Dichlorobenzene	22.1		1.0	0.43
107-06-2	1,2-Dichloroethane	21.7		1.0	0.43
78-87-5	1,2-Dichloropropane	23.7		1.0	0.35
541-73-1	1,3-Dichlorobenzene	22.3		1.0	0.34
106-46-7	1,4-Dichlorobenzene	22.7		1.0	0.76
78-93-3	2-Butanone (MEK)	110		5.0	1.9
591-78-6	2-Hexanone	109		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	116		5.0	2.7
67-64-1	Acetone	117		5.0	5.0
71-43-2	Benzene	22.9		1.0	0.43
75-25-2	Bromoform	10.5		1.0	0.54
74-83-9	Bromomethane	31.7		1.0	1.0
75-15-0	Carbon disulfide	20.7		1.0	0.16
56-23-5	Carbon tetrachloride	18.6		1.0	0.21
108-90-7	Chlorobenzene	22.2		1.0	0.38
124-48-1	Dibromochloromethane	14.4		1.0	0.28
75-00-3	Chloroethane	60.6		1.0	0.32
67-66-3	Chloroform	23.8		1.0	0.33
74-87-3	Chloromethane	22.9		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	23.2		1.0	0.22
110-82-7	Cyclohexane	20.0		1.0	0.32
75-27-4	Bromodichloromethane	18.8		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.3		1.0	0.12
100-41-4	Ethylbenzene	22.4		1.0	0.30
106-93-4	1,2-Dibromoethane	18.7		1.0	0.50
98-82-8	Isopropylbenzene	22.8		1.0	0.34
79-20-9	Methyl acetate	33.7		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159208-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534240/4

Matrix: Water | Lab File ID: T09454.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/07/2018 09:46

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: DB-624 ID: 0.18(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534240 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.7		1.0	0.47
108-87-2	Methylcyclohexane	20.8		1.0	0.26
75-09-2	Methylene Chloride	22.4		1.0	0.32
127-18-4	Tetrachloroethene	22.9		1.0	0.25
108-88-3	Toluene	22.8		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	24.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.8		1.0	0.49
79-01-6	Trichloroethene	21.7		1.0	0.31
75-69-4	Trichlorofluoromethane	21.4		1.0	0.14
75-01-4	Vinyl chloride	21.9		1.0	0.17
1330-20-7	Xylenes, Total	43.9		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	21.2		1.0	0.46
100-42-5	Styrene	21.7		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		74-132
460-00-4	4-Bromofluorobenzene	120		77-124
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09454.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 07-Jul-2018 09:46:41 ALS Bottle#: 0 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075030-004
Operator ID: Instrument ID: CVOAMS15

Method: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\8260W_15.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 19:38:32 Calib Date: 20-Jun-2018 23:42:43
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS15\20180620-74090.b\T08683.D

Column 1 : DB-624 (0.18 mm) Det: MS Quad
Process Host: XAWRK009

First Level Reviewer: desais Date: 07-Jul-2018 11:29:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	0.907	0.907	0.000	92	21242	20.0	20.0	
2 Dichlorodifluoromethane	85	0.928	0.928	0.000	99	55569	20.0	20.3	
3 Chloromethane	50	1.033	1.033	0.000	99	43933	20.0	22.9	
4 Vinyl chloride	62	1.091	1.091	0.000	98	43440	20.0	21.9	
5 Butadiene	54	1.112	1.112	0.000	92	33718	20.0	20.7	
6 Bromomethane	94	1.269	1.269	0.000	97	8496	20.0	31.7	
7 Chloroethane	64	1.332	1.332	0.000	99	22803	20.0	60.6	
8 Dichlorofluoromethane	67	1.452	1.453	-0.001	99	73390	20.0	25.6	
9 Trichlorofluoromethane	101	1.484	1.484	0.000	99	78532	20.0	21.4	
10 Pentane	72	1.531	1.531	0.000	96	18109	40.0	44.4	
11 Ethanol	46	1.610	1.615	-0.005	97	8744	800.0	1001.6	
12 Ethyl ether	59	1.662	1.662	0.000	52	40631	20.0	21.8	
13 1,2-Dichloro-1,1,2-trifluo	117	1.662	1.662	0.000	89	47677	20.0	21.7	
14 2-Methyl-1,3-butadiene	53	1.667	1.668	-0.001	81	43834	20.0	23.3	
15 Acrolein	56	1.736	1.736	0.000	95	8681	40.0	55.5	
16 1,1-Dichloroethene	96	1.793	1.794	-0.001	99	50485	20.0	23.0	
17 1,1,2-Trichloro-1,2,2-trif	101	1.799	1.799	0.000	69	45822	20.0	21.0	
18 Acetone	43	1.830	1.830	0.000	89	45756	100.0	117.0	
19 Iodomethane	142	1.893	1.893	0.000	98	41189	20.0	19.9	
21 Carbon disulfide	76	1.930	1.930	0.000	99	137415	20.0	20.7	
20 Isopropyl alcohol	45	1.930	1.930	0.000	37	20772	200.0	214.2	
24 Acetonitrile	40	2.008	2.008	0.000	93	32255	200.0	249.5	a
22 3-Chloro-1-propene	76	2.024	2.024	0.000	94	35448	20.0	20.3	
23 Methyl acetate	43	2.040	2.040	0.000	97	52994	40.0	33.7	
25 Cyclopentene	67	2.076	2.077	-0.001	94	132560	20.0	24.6	
26 Methylene Chloride	84	2.103	2.103	0.000	92	59785	20.0	22.4	
* 27 TBA-d9 (IS)	66	2.134	2.140	-0.006	100	26515	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.192	2.192	0.000	99	37396	200.0	212.2	
29 Acrylonitrile	53	2.270	2.271	-0.001	95	152673	200.0	176.0	
30 trans-1,2-Dichloroethene	96	2.291	2.292	-0.001	90	60113	20.0	24.0	
31 Methyl tert-butyl ether	73	2.297	2.297	0.000	97	136016	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	2.491	2.491	0.000	89	63984	20.0	21.8	
33 1,1-Dichloroethane	63	2.590	2.590	0.000	100	104188	20.0	24.1	
34 Vinyl acetate	86	2.637	2.638	-0.001	99	20406	40.0	47.2	
35 Isopropyl ether	45	2.653	2.659	-0.006	85	161728	20.0	23.2	
36 2-Chloro-1,3-butadiene	88	2.658	2.659	-0.001	74	55481	20.0	23.4	
37 Tert-butyl ethyl ether	59	2.936	2.937	-0.001	89	149714	20.0	21.7	
* 38 2-Butanone-d5	46	3.010	3.010	0.000	99	176004	250.0	250.0	
39 2,2-Dichloropropane	97	3.041	3.041	0.000	75	20306	20.0	21.1	
40 cis-1,2-Dichloroethene	96	3.041	3.041	0.000	94	68017	20.0	23.2	
41 2-Butanone (MEK)	43	3.062	3.062	0.000	98	77781	100.0	109.5	
42 Propionitrile	54	3.104	3.104	0.000	98	57604	200.0	249.6	
43 Ethyl acetate	70	3.120	3.120	0.000	99	8578	40.0	40.1	
44 Methyl acrylate	55	3.146	3.146	0.000	95	36970	20.0	15.4	
45 Methacrylonitrile	67	3.235	3.235	0.000	88	177881	200.0	180.3	
46 Chlorobromomethane	128	3.240	3.241	-0.001	52	29459	20.0	23.3	
47 Tetrahydrofuran	72	3.288	3.288	0.000	84	10725	40.0	42.1	
48 Chloroform	83	3.314	3.314	0.000	100	103431	20.0	23.8	
$ 49 Dibromofluoromethane (Surr	113	3.450	3.450	0.000	95	90920	50.0	50.4	
50 1,1,1-Trichloroethane	97	3.471	3.471	0.000	96	85871	20.0	21.8	
51 Cyclohexane	84	3.518	3.519	-0.001	89	72995	20.0	20.0	
52 Carbon tetrachloride	117	3.618	3.618	0.000	80	62164	20.0	18.6	
53 1,1-Dichloropropene	75	3.618	3.618	0.000	97	81264	20.0	24.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	3.749	3.749	0.000	97	94140	50.0	47.9	
54 Isobutyl alcohol	43	3.765	3.765	0.000	96	33911	500.0	534.3	
56 Benzene	78	3.807	3.807	0.000	96	241016	20.0	22.9	
57 1,2-Dichloroethane	62	3.822	3.823	-0.001	62	69321	20.0	21.7	
58 Isooctane	57	3.901	3.901	0.000	100	122746	20.0	22.2	
59 Isopropyl acetate	61	3.911	3.912	-0.001	80	15166	20.0	17.5	
60 Tert-amyl methyl ether	73	3.938	3.938	0.000	94	139710	20.0	20.4	
* 61 Fluorobenzene	96	4.079	4.080	-0.001	98	437517	50.0	50.0	
62 n-Heptane	43	4.095	4.095	0.000	53	51425	20.0	20.8	
63 n-Butanol	56	4.441	4.441	0.000	57	22027	500.0	481.3	
64 Trichloroethene	95	4.452	4.452	0.000	98	60128	20.0	21.7	
65 Ethyl acrylate	55	4.604	4.604	0.000	98	46658	20.0	15.3	
66 Methylcyclohexane	83	4.651	4.651	0.000	95	81483	20.0	20.8	
67 1,2-Dichloropropane	63	4.682	4.682	0.000	90	58719	20.0	23.7	
* 68 1,4-Dioxane-d8	96	4.798	4.798	0.000	37	23687	1000.0	1000.0	
69 Dibromomethane	93	4.803	4.803	0.000	96	31651	20.0	19.6	
70 1,4-Dioxane	88	4.855	4.856	-0.001	37	11310	400.0	476.6	
71 Methyl methacrylate	100	4.861	4.856	0.004	85	21823	40.0	31.2	
72 n-Propyl acetate	43	4.939	4.939	0.000	97	49919	20.0	16.3	
73 Dichlorobromomethane	83	4.997	4.997	0.000	99	62993	20.0	18.8	
74 2-Nitropropane	41	5.269	5.270	-0.001	96	10222	40.0	19.7	
75 2-Chloroethyl vinyl ether	63	5.385	5.380	0.005	95	30403	20.0	19.3	
76 Epichlorohydrin	57	5.432	5.427	0.005	99	80748	400.0	459.5	
77 cis-1,3-Dichloropropene	75	5.526	5.527	-0.001	90	83227	20.0	21.2	
78 4-Methyl-2-pentanone (MIBK	43	5.747	5.747	0.000	94	159610	100.0	115.8	
$ 79 Toluene-d8 (Surr)	98	5.851	5.846	0.005	99	353653	50.0	52.5	
80 Toluene	91	5.930	5.930	0.000	93	246017	20.0	22.8	
81 trans-1,3-Dichloropropene	75	6.239	6.240	-0.001	94	67223	20.0	18.8	
82 Ethyl methacrylate	69	6.423	6.418	0.005	85	54376	20.0	17.6	
83 1,1,2-Trichloroethane	83	6.465	6.465	0.000	95	36187	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	6.633	6.633	0.000	97	63586	20.0	22.9	
85 1,3-Dichloropropane	76	6.685	6.685	0.000	89	78518	20.0	21.2	
86 2-Hexanone	43	6.858	6.858	0.000	94	107603	100.0	109.1	
87 Chlorodibromomethane	129	6.979	6.979	0.000	96	34809	20.0	14.4	
88 n-Butyl acetate	43	7.084	7.084	0.000	97	53817	20.0	16.7	
89 Ethylene Dibromide	107	7.105	7.105	0.000	97	42619	20.0	18.7	
* 90 Chlorobenzene-d5	117	7.791	7.792	-0.001	86	344137	50.0	50.0	
91 Chlorobenzene	112	7.833	7.828	0.005	94	157878	20.0	22.2	
92 1,1,1,2-Tetrachloroethane	131	7.975	7.975	0.000	93	44583	20.0	18.4	
93 Ethylbenzene	106	8.033	8.033	0.000	98	88641	20.0	22.4	
94 m-Xylene & p-Xylene	106	8.221	8.222	-0.001	96	106982	20.0	22.0	
95 o-Xylene	106	8.809	8.809	0.000	93	101866	20.0	21.9	
96 Styrene	104	8.840	8.840	0.000	92	169769	20.0	21.7	
97 n-Butyl acrylate	73	8.892	8.893	-0.001	97	31763	20.0	17.3	
98 Bromoform	173	9.071	9.071	0.000	94	15374	20.0	10.5	
99 Amyl acetate (mixed isomer	43	9.286	9.286	0.000	92	66338	20.0	17.6	
100 Isopropylbenzene	105	9.417	9.417	0.000	96	260546	20.0	22.8	
$ 101 4-Bromofluorobenzene	174	9.621	9.627	-0.006	0	135504	50.0	60.1	
102 Bromobenzene	156	9.815	9.815	0.000	98	63446	20.0	21.7	
103 1,1,2,2-Tetrachloroethane	83	9.931	9.931	0.000	94	47310	20.0	17.3	
104 1,2,3-Trichloropropane	110	9.957	9.952	0.005	94	14694	20.0	15.6	
105 trans-1,4-Dichloro-2-buten	53	10.030	10.030	0.000	78	10552	20.0	14.2	
106 N-Propylbenzene	91	10.088	10.088	0.000	99	303254	20.0	23.0	
107 2-Chlorotoluene	91	10.167	10.167	0.000	96	177340	20.0	22.5	
108 4-Ethyltoluene	105	10.287	10.287	0.000	98	248505	20.0	22.5	
109 4-Chlorotoluene	91	10.355	10.356	-0.001	97	188908	20.0	22.4	
110 1,3,5-Trimethylbenzene	105	10.402	10.403	-0.001	92	201954	20.0	22.6	
111 Butyl Methacrylate	87	10.686	10.686	0.000	87	60661	20.0	18.8	
112 tert-Butylbenzene	119	10.922	10.922	0.000	94	174304	20.0	22.1	
118 1,2,4-Trimethylbenzene	105	11.005	11.006	-0.001	97	207558	20.0	22.6	
113 sec-Butylbenzene	105	11.278	11.278	0.000	98	243080	20.0	22.4	
114 1,3-Dichlorobenzene	146	11.372	11.373	-0.001	96	114880	20.0	22.3	
* 115 1,4-Dichlorobenzene-d4	152	11.477	11.478	-0.001	96	180749	50.0	50.0	
116 1,4-Dichlorobenzene	146	11.514	11.514	0.000	93	117208	20.0	22.7	
117 4-Isopropyltoluene	119	11.524	11.525	-0.001	95	208640	20.0	22.8	
135 1,2,3-Trimethylbenzene	105	11.624	11.624	0.000	99	205592	20.0	22.8	
119 Benzyl chloride	91	11.729	11.729	0.000	98	62576	20.0	11.4	
120 2,3-Dihydroindene	117	11.860	11.860	0.000	90	201171	20.0	22.5	
121 1,2-Dichlorobenzene	146	11.996	11.997	-0.001	96	104238	20.0	22.1	
122 p-Diethylbenzene	119	12.044	12.044	0.000	92	114369	20.0	23.6	
123 n-Butylbenzene	92	12.070	12.070	0.000	96	101847	20.0	23.1	
124 1,2-Dibromo-3-Chloropropan	155	12.903	12.904	-0.001	68	4824	20.0	10.7	
125 1,2,4,5-Tetramethylbenzene	119	12.924	12.925	-0.001	97	157325	20.0	21.0	
126 1,3,5-Trichlorobenzene	180	13.129	13.129	0.000	97	64370	20.0	22.9	
127 1,2,4-Trichlorobenzene	180	13.716	13.716	0.000	93	55288	20.0	22.3	
128 Hexachlorobutadiene	225	13.905	13.900	0.005	75	21526	20.0	22.0	
129 Naphthalene	128	13.926	13.926	0.000	99	124658	20.0	17.3	
130 1,2,3-Trichlorobenzene	180	14.141	14.141	0.000	93	46660	20.0	21.1	
S 131 1,2-Dichloroethene, Total	100				0		40.0	47.2	
S 132 Xylenes, Total	100				0		40.0	43.9	
S 136 1,3-Dichloropropene, Total	1				0		40.0	40.0	
S 133 Total BTEX	1				0		100.0	111.9	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS ONLY_00008	Amount Added:	5.00	Units: uL	Run Reagent
SURR50_00005	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 09-Jul-2018 19:38:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS15\20180707-75030.b\T09454.D

Injection Date: 07-Jul-2018 09:46:41 Instrument ID: CVOAMS15

Lims ID: LCSD

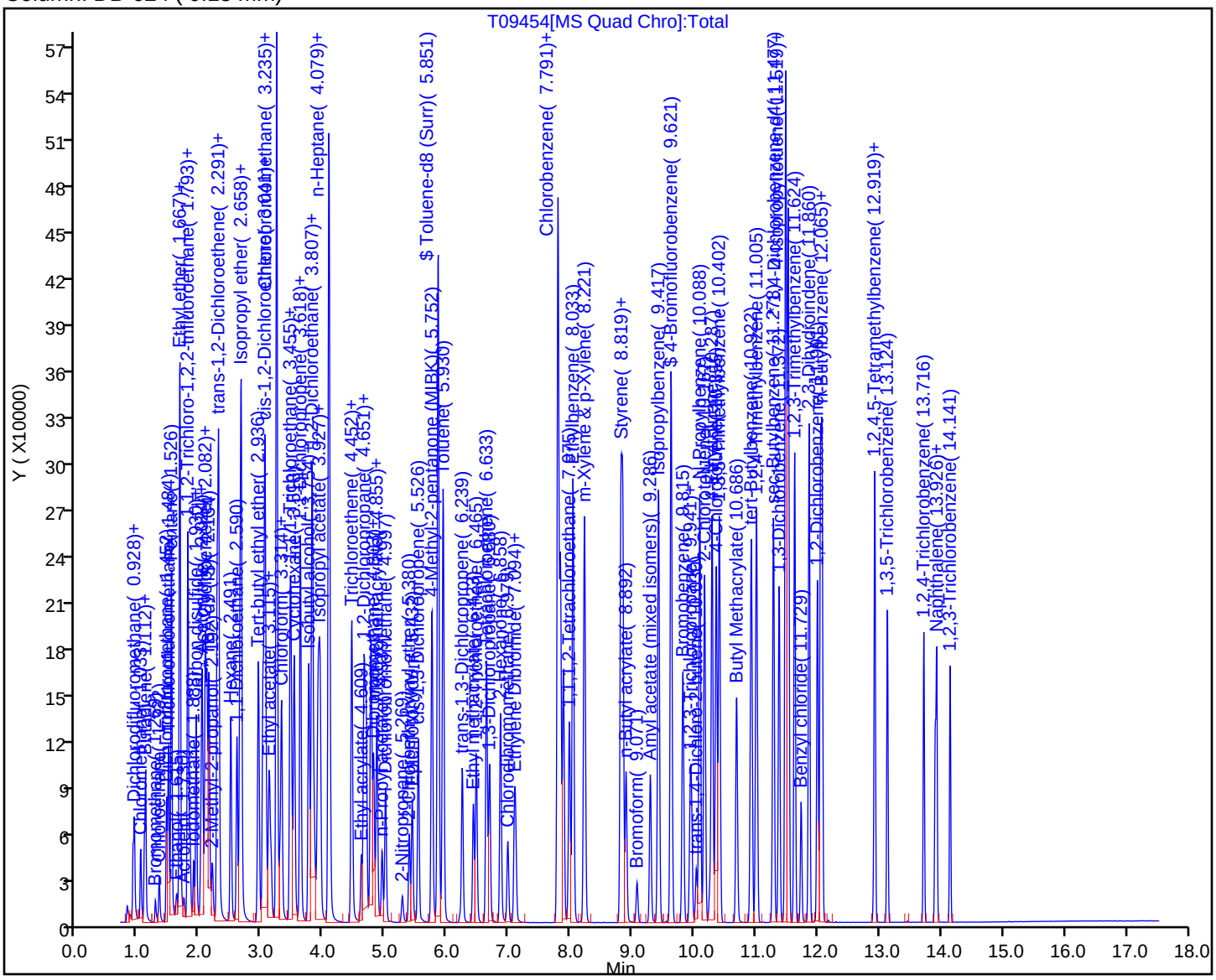
Client ID:

Operator ID: ALS Bottle#: 0 Worklist Smp#: 4

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260W_15 Limit Group: VOA - 8260C Water and Solid

Column: DB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 06/20/2018 20:18

Analysis Batch Number: 529548 End Date: 06/21/2018 01:48

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-529548/1		06/20/2018 20:18	1	T08675.D	DB-624 0.18(mm)
STD8 460-529548/2 IC		06/20/2018 20:46	1	T08676.D	DB-624 0.18(mm)
STD05 460-529548/3 IC		06/20/2018 21:11	1	T08677.D	DB-624 0.18(mm)
STD1 460-529548/4 IC		06/20/2018 21:36	1	T08678.D	DB-624 0.18(mm)
STD5 460-529548/5 IC		06/20/2018 22:01	1	T08679.D	DB-624 0.18(mm)
STD20 460-529548/6 ICIS		06/20/2018 22:27	1	T08680.D	DB-624 0.18(mm)
STD50 460-529548/7 IC		06/20/2018 22:52	1	T08681.D	DB-624 0.18(mm)
STD200 460-529548/8 IC		06/20/2018 23:17	1	T08682.D	DB-624 0.18(mm)
STD500 460-529548/9 IC		06/20/2018 23:42	1	T08683.D	DB-624 0.18(mm)
ICV 460-529548/14		06/21/2018 01:48	1		DB-624 0.18(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Instrument ID: CVOAMS15 Start Date: 07/07/2018 08:24

Analysis Batch Number: 534240 End Date: 07/07/2018 18:57

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534240/1		07/07/2018 08:24	1	T09451.D	DB-624 0.18(mm)
CCVIS 460-534240/2		07/07/2018 08:47	1	T09452.D	DB-624 0.18(mm)
LCS 460-534240/3		07/07/2018 09:12	1	T09453.D	DB-624 0.18(mm)
LCSD 460-534240/4		07/07/2018 09:46	1	T09454.D	DB-624 0.18(mm)
MB 460-534240/7		07/07/2018 11:01	1	T09457.D	DB-624 0.18(mm)
460-159208-1		07/07/2018 11:26	1	T09458.D	DB-624 0.18(mm)
460-159208-2		07/07/2018 11:51	1	T09459.D	DB-624 0.18(mm)
460-159208-3		07/07/2018 12:16	1	T09460.D	DB-624 0.18(mm)
ZZZZZ		07/07/2018 13:07	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 13:32	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 13:56	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 14:21	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 14:46	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 15:11	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 15:37	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 16:02	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 16:27	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 16:52	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 17:17	1		DB-624 0.18(mm)
ZZZZZ		07/07/2018 17:42	10		DB-624 0.18(mm)
ZZZZZ		07/07/2018 18:07	10		DB-624 0.18(mm)
ZZZZZ		07/07/2018 18:32	2		DB-624 0.18(mm)
ZZZZZ		07/07/2018 18:57	2		DB-624 0.18(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159208-1

SDG No.:

Batch Number: 534240 Batch Start Date: 07/07/18 08:24 Batch Analyst: Collado, Ximena X

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00267
BFB 460-534240/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-534240/2		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-534240/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-534240/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-534240/7		8260C		5 mL	5 mL				
460-159208-A-1	PDI-TB-06252018	8260C	T	5 mL	5 mL				
460-159208-A-2	PDI-FB-06252018	8260C	T	5 mL	5 mL				
460-159208-A-3	PDI-IS-WG-75-062 52018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	SURR50 00005	VOA6IS ONLY 00008				
BFB 460-534240/1		8260C							
CCVIS 460-534240/2		8260C		5 uL	5 uL				
LCS 460-534240/3		8260C		5 uL	5 uL				
LCSD 460-534240/4		8260C		5 uL	5 uL				
MB 460-534240/7		8260C		5 uL	5 uL				
460-159208-A-1	PDI-TB-06252018	8260C	T	5 uL	5 uL				
460-159208-A-2	PDI-FB-06252018	8260C	T	5 uL	5 uL				
460-159208-A-3	PDI-IS-WG-75-062 52018	8260C	T	5 uL	5 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

NYSC
460501

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

460-159208 Chain of Custody

159208

Special Instructions/Note:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-TB-06252018	6/25/18	—	—	Water			✓						Trip Blank
POI-FB-06252018	6/25/18	0830	—	Water			✓						Field Blank
POI-15-WG-75-06252018	06/25/18	1125	G	Water			✓						
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Frank Robinson	Date/Time: 6/25/18 1215	Company CDM	Received by:	Date/Time: 6/26/18 1210	Company
Relinquished by:	Date/Time: 6/26/18 1220	Company FA	Received by:	Date/Time: 6/27/18 1420	Company
Relinquished by:	Date/Time: 6/27/18 1920	Company	Received by:	Date/Time: 6/28/18 1920	Company TA Edison
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 08/04/2016

2.8/2.0 ENV # 1 NREC.

07/10/2018

Page 238 of 240

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159208

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.5 °C	2.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: BV Date: 6/25/18

07/10/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159208-1

Login Number: 159208
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159208-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/10/2018 10:38:29 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Detection Summary 4
Client Sample Results 5
Surrogate Summary 9
QC Sample Results 10
QC Association Summary 14
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 21

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Client Sample ID: PDI-TB-06252018 — Lab Sample ID: 460-159208-1

No Detections.

Client Sample ID: PDI-FB-06252018 — Lab Sample ID: 460-159208-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	9.8		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	16		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.9		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-IS-WG-75-06252018 — Lab Sample ID: 460-159208-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.46	J	1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	8.4		5.0	5.0	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.48	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	15		1.0	0.31	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-TB-06252018
Date Collected: 06/25/18 00:00
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:26	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:26	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:26	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 11:26	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:26	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:26	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:26	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:26	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 11:26	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:26	1
Acetone	ND		5.0	5.0	ug/L			07/07/18 11:26	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:26	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 11:26	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 11:26	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:26	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:26	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:26	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 11:26	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 11:26	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:26	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:26	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:26	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:26	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:26	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:26	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:26	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:26	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:26	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:26	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:26	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 11:26	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:26	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:26	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:26	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:26	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:26	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:26	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:26	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:26	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:26	1

Client Sample ID: PDI-TB-06252018

Lab Sample ID: 460-159208-1

Date Collected: 06/25/18 00:00

Matrix: Water

Date Received: 06/25/18 19:20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*74 - 132*		*07/07/18 11:26*	*1*
4-Bromofluorobenzene	*118*		*77 - 124*		*07/07/18 11:26*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/07/18 11:26*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/07/18 11:26*	*1*

Client Sample ID: PDI-FB-06252018

Lab Sample ID: 460-159208-2

Date Collected: 06/25/18 08:30

Matrix: Water

Date Received: 06/25/18 19:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:51	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:51	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:51	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:51	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:51	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:51	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 11:51	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:51	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:51	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:51	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:51	1
2-Butanone (MEK)	**9.8**		5.0	1.9	ug/L			07/07/18 11:51	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:51	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:51	1
Acetone	**16**		5.0	5.0	ug/L			07/07/18 11:51	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:51	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 11:51	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 11:51	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:51	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:51	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:51	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 11:51	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 11:51	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:51	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:51	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:51	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:51	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:51	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:51	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:51	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:51	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:51	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:51	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:51	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:51	1
Methylene Chloride	**4.9**		1.0	0.32	ug/L			07/07/18 11:51	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:51	1

Client Sample ID: PDI-FB-06252018

Lab Sample ID: 460-159208-2
Date Collected: 06/25/18 08:30
Matrix: Water
Date Received: 06/25/18 19:20

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:51	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:51	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:51	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:51	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:51	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:51	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:51	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:51	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*74 - 132*		*07/07/18 11:51*	*1*
4-Bromofluorobenzene	*115*		*77 - 124*		*07/07/18 11:51*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*07/07/18 11:51*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/07/18 11:51*	*1*

Client Sample ID: PDI-IS-WG-75-06252018

Lab Sample ID: 460-159208-3
Date Collected: 06/25/18 11:25
Matrix: Water
Date Received: 06/25/18 19:20

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.46**	**J**	1.0	0.24	ug/L			07/07/18 12:16	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 12:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 12:16	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 12:16	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 12:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 12:16	1
1,2-Dibromo-3-Chloropropane	ND	*	1.0	0.38	ug/L			07/07/18 12:16	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 12:16	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 12:16	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 12:16	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 12:16	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 12:16	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 12:16	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 12:16	1
Acetone	**8.4**		5.0	5.0	ug/L			07/07/18 12:16	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 12:16	1
Bromoform	ND	*	1.0	0.54	ug/L			07/07/18 12:16	1
Bromomethane	ND	*	1.0	1.0	ug/L			07/07/18 12:16	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 12:16	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 12:16	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 12:16	1
Dibromochloromethane	ND	*	1.0	0.28	ug/L			07/07/18 12:16	1
Chloroethane	ND	*	1.0	0.32	ug/L			07/07/18 12:16	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 12:16	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 12:16	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 12:16	1

Client Sample ID: PDI-IS-WG-75-06252018
Date Collected: 06/25/18 11:25
Date Received: 06/25/18 19:20

Lab Sample ID: 460-159208-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 12:16	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 12:16	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 12:16	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 12:16	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 12:16	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 12:16	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 12:16	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 12:16	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 12:16	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 12:16	1
Tetrachloroethene	**0.48**	**J**	1.0	0.25	ug/L			07/07/18 12:16	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 12:16	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 12:16	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 12:16	1
Trichloroethene	**15**		1.0	0.31	ug/L			07/07/18 12:16	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 12:16	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 12:16	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 12:16	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 12:16	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*		*07/07/18 12:16*	*1*
4-Bromofluorobenzene	*117*		*77 - 124*		*07/07/18 12:16*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*07/07/18 12:16*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/07/18 12:16*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159208-1	PDI-TB-06252018	107	118	109	108
460-159208-2	PDI-FB-06252018	108	115	108	108
460-159208-3	PDI-IS-WG-75-06252018	110	117	109	109
LCS 460-534240/3	Lab Control Sample	92	122	104	99
LCSD 460-534240/4	Lab Control Sample Dup	96	120	105	101
MB 460-534240/7	Method Blank	105	116	106	107

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534240/7
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/07/18 11:01	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/07/18 11:01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/07/18 11:01	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/07/18 11:01	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/07/18 11:01	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/07/18 11:01	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/07/18 11:01	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/07/18 11:01	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/07/18 11:01	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/07/18 11:01	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/07/18 11:01	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/07/18 11:01	1
2-Hexanone	ND		5.0	2.9	ug/L			07/07/18 11:01	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/07/18 11:01	1
Acetone	ND		5.0	5.0	ug/L			07/07/18 11:01	1
Benzene	ND		1.0	0.43	ug/L			07/07/18 11:01	1
Bromoform	ND		1.0	0.54	ug/L			07/07/18 11:01	1
Bromomethane	ND		1.0	1.0	ug/L			07/07/18 11:01	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/07/18 11:01	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/07/18 11:01	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/07/18 11:01	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/07/18 11:01	1
Chloroethane	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Chloroform	ND		1.0	0.33	ug/L			07/07/18 11:01	1
Chloromethane	ND		1.0	0.14	ug/L			07/07/18 11:01	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/07/18 11:01	1
Cyclohexane	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/07/18 11:01	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/07/18 11:01	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/07/18 11:01	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/07/18 11:01	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/07/18 11:01	1
Methyl acetate	ND		5.0	0.31	ug/L			07/07/18 11:01	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/07/18 11:01	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/07/18 11:01	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/07/18 11:01	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/07/18 11:01	1
Toluene	ND		1.0	0.38	ug/L			07/07/18 11:01	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/07/18 11:01	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/07/18 11:01	1
Trichloroethene	ND		1.0	0.31	ug/L			07/07/18 11:01	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/07/18 11:01	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/07/18 11:01	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/07/18 11:01	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/07/18 11:01	1
Styrene	ND		1.0	0.42	ug/L			07/07/18 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/07/18 11:01*	*1*
4-Bromofluorobenzene	*116*		*77 - 124*		*07/07/18 11:01*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*		*07/07/18 11:01*	*1*
Dibromofluoromethane (Surr)	*107*		*72 - 131*		*07/07/18 11:01*	*1*

Lab Sample ID: LCS 460-534240/3
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.6		ug/L		98	75 - 125
1,1,2,2-Tetrachloroethane	20.0	15.8		ug/L		79	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8		ug/L		99	59 - 150
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	78 - 120
1,1-Dichloroethane	20.0	21.9		ug/L		110	77 - 123
1,1-Dichloroethene	20.0	20.7		ug/L		104	74 - 123
1,2,4-Trichlorobenzene	20.0	20.0		ug/L		100	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	9.78	*	ug/L		49	55 - 134
1,2-Dichlorobenzene	20.0	20.7		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	20.6		ug/L		103	76 - 121
1,2-Dichloropropane	20.0	22.2		ug/L		111	77 - 123
1,3-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	20.0	21.0		ug/L		105	80 - 120
2-Butanone (MEK)	100	107		ug/L		107	64 - 120
2-Hexanone	100	109		ug/L		109	71 - 125
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	78 - 124
Acetone	100	115		ug/L		115	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	9.50	*	ug/L		47	53 - 120
Bromomethane	20.0	25.9		ug/L		130	10 - 150
Carbon disulfide	20.0	18.0		ug/L		90	69 - 133
Carbon tetrachloride	20.0	16.9		ug/L		84	70 - 132
Chlorobenzene	20.0	20.4		ug/L		102	80 - 120
Dibromochloromethane	20.0	13.3	*	ug/L		67	73 - 120
Chloroethane	20.0	59.0	*	ug/L		295	52 - 150
Chloroform	20.0	22.0		ug/L		110	80 - 120
Chloromethane	20.0	22.1		ug/L		111	56 - 131
cis-1,2-Dichloroethene	20.0	21.3		ug/L		107	80 - 120
Cyclohexane	20.0	19.8		ug/L		99	56 - 150
Bromodichloromethane	20.0	17.5		ug/L		88	76 - 120
Dichlorodifluoromethane	20.0	19.0		ug/L		95	50 - 131
Ethylbenzene	20.0	20.0		ug/L		100	80 - 120
1,2-Dibromoethane	20.0	17.6		ug/L		88	80 - 120
Isopropylbenzene	20.0	20.7		ug/L		103	80 - 123
Methyl acetate	40.0	31.9		ug/L		80	66 - 144
Methyl tert-butyl ether	20.0	19.4		ug/L		97	79 - 122
Methylcyclohexane	20.0	19.6		ug/L		98	61 - 145
Methylene Chloride	20.0	20.8		ug/L		104	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.8		ug/L		104	80 - 120
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	79 - 120
trans-1,3-Dichloropropene	20.0	17.3		ug/L		86	76 - 120
Trichloroethene	20.0	20.1		ug/L		101	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534240/3
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	21.1		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	19.5		ug/L		98	77 - 120
Styrene	20.0	20.1		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*122*		*77 - 124*
Toluene-d8 (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*72 - 131*

Lab Sample ID: LCSD 460-534240/4
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	21.8		ug/L		109	75 - 125	11	30
1,1,2,2-Tetrachloroethane	20.0	17.3		ug/L		87	74 - 120	9	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.4		ug/L		102	78 - 120	7	30
1,1-Dichloroethane	20.0	24.1		ug/L		120	77 - 123	9	30
1,1-Dichloroethene	20.0	23.0		ug/L		115	74 - 123	10	30
1,2,4-Trichlorobenzene	20.0	22.3		ug/L		112	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	10.7	*	ug/L		54	55 - 134	9	30
1,2-Dichlorobenzene	20.0	22.1		ug/L		111	80 - 120	7	30
1,2-Dichloroethane	20.0	21.7		ug/L		109	76 - 121	5	30
1,2-Dichloropropane	20.0	23.7		ug/L		119	77 - 123	7	30
1,3-Dichlorobenzene	20.0	22.3		ug/L		112	80 - 120	8	30
1,4-Dichlorobenzene	20.0	22.7		ug/L		114	80 - 120	8	30
2-Butanone (MEK)	100	110		ug/L		110	64 - 120	2	30
2-Hexanone	100	109		ug/L		109	71 - 125	0	30
4-Methyl-2-pentanone (MIBK)	100	116		ug/L		116	78 - 124	0	30
Acetone	100	117		ug/L		117	39 - 150	2	30
Benzene	20.0	22.9		ug/L		114	77 - 121	10	30
Bromoform	20.0	10.5	*	ug/L		52	53 - 120	10	30
Bromomethane	20.0	31.7	*	ug/L		158	10 - 150	20	30
Carbon disulfide	20.0	20.7		ug/L		104	69 - 133	14	30
Carbon tetrachloride	20.0	18.6		ug/L		93	70 - 132	10	30
Chlorobenzene	20.0	22.2		ug/L		111	80 - 120	8	30
Dibromochloromethane	20.0	14.4	*	ug/L		72	73 - 120	8	30
Chloroethane	20.0	60.6	*	ug/L		303	52 - 150	3	30
Chloroform	20.0	23.8		ug/L		119	80 - 120	8	30
Chloromethane	20.0	22.9		ug/L		114	56 - 131	3	30
cis-1,2-Dichloroethene	20.0	23.2		ug/L		116	80 - 120	9	30
Cyclohexane	20.0	20.0		ug/L		100	56 - 150	1	30
Bromodichloromethane	20.0	18.8		ug/L		94	76 - 120	7	30
Dichlorodifluoromethane	20.0	20.3		ug/L		101	50 - 131	6	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534240/4
Matrix: Water
Analysis Batch: 534240

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	22.4		ug/L		112	80 - 120	11	30
1,2-Dibromoethane			20.0	18.7		ug/L		94	80 - 120	6	30
Isopropylbenzene			20.0	22.8		ug/L		114	80 - 123	10	30
Methyl acetate			40.0	33.7		ug/L		84	66 - 144	5	30
Methyl tert-butyl ether			20.0	20.7		ug/L		103	79 - 122	6	30
Methylcyclohexane			20.0	20.8		ug/L		104	61 - 145	6	30
Methylene Chloride			20.0	22.4		ug/L		112	77 - 123	8	30
Tetrachloroethene			20.0	22.9		ug/L		114	78 - 122	11	30
Toluene			20.0	22.8		ug/L		114	80 - 120	9	30
trans-1,2-Dichloroethene			20.0	24.0		ug/L		120	79 - 120	11	30
trans-1,3-Dichloropropene			20.0	18.8		ug/L		94	76 - 120	9	30
Trichloroethene			20.0	21.7		ug/L		108	77 - 120	7	30
Trichlorofluoromethane			20.0	21.4		ug/L		107	71 - 143	1	30
Vinyl chloride			20.0	21.9		ug/L		110	62 - 138	4	30
cis-1,3-Dichloropropene			20.0	21.2		ug/L		106	77 - 120	8	30
Styrene			20.0	21.7		ug/L		108	80 - 120	8	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*74 - 132*
4-Bromofluorobenzene	*120*		*77 - 124*
Toluene-d8 (Surr)	*105*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

GC/MS VOA

Analysis Batch: 534240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159208-1	PDI-TB-06252018	Total/NA	Water	8260C	
460-159208-2	PDI-FB-06252018	Total/NA	Water	8260C	
460-159208-3	PDI-IS-WG-75-06252018	Total/NA	Water	8260C	
MB 460-534240/7	Method Blank	Total/NA	Water	8260C	
LCS 460-534240/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534240/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Client Sample ID: PDI-TB-06252018
Lab Sample ID: 460-159208-1
Date Collected: 06/25/18 00:00
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 11:26	XXC	TAL EDI

Client Sample ID: PDI-FB-06252018
Lab Sample ID: 460-159208-2
Date Collected: 06/25/18 08:30
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 11:51	XXC	TAL EDI

Client Sample ID: PDI-IS-WG-75-06252018
Lab Sample ID: 460-159208-3
Date Collected: 06/25/18 11:25
Matrix: Water
Date Received: 06/25/18 19:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534240	07/07/18 12:16	XXC	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159208-1	PDI-TB-06252018	Water	06/25/18 00:00	06/25/18 19:20
460-159208-2	PDI-FB-06252018	Water	06/25/18 08:30	06/25/18 19:20
460-159208-3	PDI-IS-WG-75-06252018	Water	06/25/18 11:25	06/25/18 19:20

NYSC
460501

Frank Robinson

Amy Picunas	becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.		Job #:
Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days): 14 Days	
State, Zip: NY, 12110		
Phone:	PO #: 77861	
Email: picunasae@cdmsmith.com	WO #:	
Project Name: Former Aluminum Louvre	Project #: 48016917	
Site:	SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

159208

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
PDI-TB-06252018	6/25/18	—	—	Water			✓						Trip Blank
PDI-FB-06252018	6/25/18	0830	—	Water			✓						Field Blank
PDI-15-WG-75-06252018	6/25/18	1125	G	Water			✓						
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-159208 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/25/18 1210	Company: CDM	Received by:		Date/Time: 6/26/18 1210	Company	
Relinquished by:	Date/Time: 6/26/18 1220	Company: FedEx	Received by:		Date/Time: 6/26/18 1420	Company: CDM	
Relinquished by:	Date/Time: 6/26/18 1920	Company: CDM	Received by:		Date/Time: 6/26/18 1920	Company: TA Edison	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 08/04/2016

2.5/2.6 IR# 11 NEC

7/10/2018

Page 19 of 21

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159208

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.5 °C	2.5 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/25/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159208-1

Login Number: 159208
List Number: 1
Creator: Villanueva, Angelica P

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159285-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/10/2018 3:36 PM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/10/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 10

QC Sample Results 11

Definitions 15

QC Association 16

Chronicle 17

Certification Summary 18

Organic Sample Data 19

GC/MS VOA 19

8260C 19

8260C QC Summary 20

8260C Sample Data 30

Standards Data 42

8260C ICAL Data 42

8260C CCAL Data 127

Raw QC Data 138

8260C Tune Data 138

8260C Blank Data 144

8260C LCS/LCSD Data 148

8260C Run Logs 162

Table of Contents

8260C Prep Data 164

Inorganic Sample Data 165

General Chemistry Data 165

Gen Chem Cover Page 166

Gen Chem MDL 167

Gen Chem Analysis Run Log 169

Gen Chem Prep Data 170

Shipping and Receiving Documents 171

Client Chain of Custody 172

Sample Receipt Checklist 174

Job Narrative
460-159285-1

Receipt
The sample was received on 6/26/2018 7:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159285-1	PDI-16-SO-55-06262018	Solid	06/26/18 10:05	06/26/18 19:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018

Lab Sample ID: 460-159285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.0	J	4.7	1.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	12		4.7	3.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.76	J	0.94	0.15	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.34	J	0.94	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.1		0.94	0.14	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-16-SO-55-06262018

Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1

Matrix: Solid
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.94	0.22	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2,2-Tetrachloroethane	ND		0.94	0.20	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.94	0.28	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2-Trichloroethane	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1-Dichloroethane	ND		0.94	0.19	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1-Dichloroethene	ND		0.94	0.21	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2,4-Trichlorobenzene	ND		0.94	0.086	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dibromo-3-Chloropropane	ND		0.94	0.43	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichlorobenzene	ND		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichloroethane	ND		0.94	0.28	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichloropropane	ND		0.94	0.40	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,3-Dichlorobenzene	ND		0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,4-Dichlorobenzene	ND		0.94	0.094	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
2-Butanone (MEK)	**2.0**	**J**	4.7	1.0	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
2-Hexanone	ND		4.7	0.73	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	0.62	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Acetone	**12**		4.7	3.6	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Benzene	ND		0.94	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromoform	ND		0.94	0.40	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromomethane	ND		0.94	0.44	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Carbon disulfide	ND		0.94	0.25	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Carbon tetrachloride	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chlorobenzene	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Dibromochloromethane	ND		0.94	0.18	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloroethane	ND		0.94	0.49	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloroform	ND		0.94	0.30	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloromethane	ND		0.94	0.41	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
cis-1,2-Dichloroethene	ND		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Cyclohexane	ND		0.94	0.21	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromodichloromethane	ND		0.94	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Dichlorodifluoromethane	ND		0.94	0.32	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Ethylbenzene	ND		0.94	0.19	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dibromoethane	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Isopropylbenzene	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methyl acetate	ND		4.7	4.0	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methyl tert-butyl ether	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methylcyclohexane	ND		0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methylene Chloride	**0.76**	**J**	0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Tetrachloroethene	**0.34**	**J**	0.94	0.13	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Toluene	ND		0.94	0.59	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
trans-1,2-Dichloroethene	ND		0.94	0.23	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
trans-1,3-Dichloropropene	ND		0.94	0.25	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Trichloroethene	**1.1**		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Trichlorofluoromethane	ND		0.94	0.38	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Vinyl chloride	ND		0.94	0.51	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Xylenes, Total	ND		1.9	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
cis-1,3-Dichloropropene	ND		0.94	0.26	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Styrene	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1

Client Sample ID: PDI-16-SO-55-06262018
Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1
Matrix: Solid
Percent Solids: 78.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		78 - 135	06/27/18 23:38	07/10/18 11:15	1
4-Bromofluorobenzene	100		67 - 126	06/27/18 23:38	07/10/18 11:15	1
Toluene-d8 (Surr)	103		73 - 121	06/27/18 23:38	07/10/18 11:15	1
Dibromofluoromethane (Surr)	107		61 - 149	06/27/18 23:38	07/10/18 11:15	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159285-1	PDI-16-SO-55-06262018	108	100	103	107
LCS 460-534882/3	Lab Control Sample	97	95	104	102
LCSD 460-534882/4	Lab Control Sample Dup	97	98	108	102
MB 460-534882/7	Method Blank	96	96	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534882/7
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/10/18 10:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/10/18 10:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/10/18 10:25	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/10/18 10:25	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/10/18 10:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/10/18 10:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/10/18 10:25	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/10/18 10:25	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/10/18 10:25	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/10/18 10:25	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/10/18 10:25	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/10/18 10:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/10/18 10:25	1
Acetone	ND		5.0	3.8	ug/Kg			07/10/18 10:25	1
Benzene	ND		1.0	0.26	ug/Kg			07/10/18 10:25	1
Bromoform	ND		1.0	0.43	ug/Kg			07/10/18 10:25	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/10/18 10:25	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/10/18 10:25	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/10/18 10:25	1
Chloroform	ND		1.0	0.32	ug/Kg			07/10/18 10:25	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/10/18 10:25	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/10/18 10:25	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/10/18 10:25	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/10/18 10:25	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/10/18 10:25	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/10/18 10:25	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/10/18 10:25	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/10/18 10:25	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/10/18 10:25	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
Toluene	ND		1.0	0.63	ug/Kg			07/10/18 10:25	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/10/18 10:25	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/10/18 10:25	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/10/18 10:25	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/10/18 10:25	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Styrene	ND		1.0	0.12	ug/Kg			07/10/18 10:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 135*		*07/10/18 10:25*	*1*
4-Bromofluorobenzene	*96*		*67 - 126*		*07/10/18 10:25*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*		*07/10/18 10:25*	*1*
Dibromofluoromethane (Surr)	*105*		*61 - 149*		*07/10/18 10:25*	*1*

Lab Sample ID: LCS 460-534882/3
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.7		ug/Kg		98	80 - 125
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/Kg		108	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.7		ug/Kg		114	78 - 132
1,1,2-Trichloroethane	20.0	21.1		ug/Kg		105	76 - 124
1,1-Dichloroethane	20.0	22.1		ug/Kg		111	80 - 124
1,1-Dichloroethene	20.0	21.1		ug/Kg		106	79 - 132
1,2,4-Trichlorobenzene	20.0	19.3		ug/Kg		96	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/Kg		90	65 - 129
1,2-Dichlorobenzene	20.0	19.4		ug/Kg		97	80 - 121
1,2-Dichloroethane	20.0	18.1		ug/Kg		91	68 - 120
1,2-Dichloropropane	20.0	22.4		ug/Kg		112	77 - 124
1,3-Dichlorobenzene	20.0	19.3		ug/Kg		96	79 - 124
1,4-Dichlorobenzene	20.0	19.3		ug/Kg		96	79 - 121
2-Butanone (MEK)	100	77.3		ug/Kg		77	61 - 140
2-Hexanone	100	91.2		ug/Kg		91	78 - 120
4-Methyl-2-pentanone (MIBK)	100	93.6		ug/Kg		94	80 - 120
Acetone	100	87.7		ug/Kg		88	75 - 120
Benzene	20.0	22.0		ug/Kg		110	75 - 127
Bromoform	20.0	15.9		ug/Kg		79	19 - 150
Bromomethane	20.0	18.2		ug/Kg		91	59 - 136
Carbon disulfide	20.0	21.8		ug/Kg		109	74 - 130
Carbon tetrachloride	20.0	19.6		ug/Kg		98	77 - 138
Chlorobenzene	20.0	19.5		ug/Kg		98	80 - 120
Dibromochloromethane	20.0	18.0		ug/Kg		90	67 - 143
Chloroethane	20.0	19.6		ug/Kg		98	50 - 139
Chloroform	20.0	19.7		ug/Kg		99	80 - 122
Chloromethane	20.0	20.2		ug/Kg		101	66 - 128
cis-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	80 - 123
Cyclohexane	20.0	23.3		ug/Kg		117	67 - 135
Bromodichloromethane	20.0	18.9		ug/Kg		95	76 - 129
Dichlorodifluoromethane	20.0	17.9		ug/Kg		89	72 - 127
Ethylbenzene	20.0	20.0		ug/Kg		100	79 - 124
1,2-Dibromoethane	20.0	19.1		ug/Kg		96	80 - 122
Isopropylbenzene	20.0	20.3		ug/Kg		102	80 - 125
Methyl acetate	40.0	43.9		ug/Kg		110	73 - 123
Methyl tert-butyl ether	20.0	20.4		ug/Kg		102	80 - 120
Methylcyclohexane	20.0	23.1		ug/Kg		115	71 - 137
Methylene Chloride	20.0	20.2		ug/Kg		101	79 - 128
Tetrachloroethene	20.0	18.9		ug/Kg		95	73 - 130
Toluene	20.0	20.1		ug/Kg		101	75 - 122
trans-1,2-Dichloroethene	20.0	21.0		ug/Kg		105	80 - 129
trans-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	72 - 121
Trichloroethene	20.0	20.5		ug/Kg		102	79 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534882/3
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	17.1		ug/Kg		85	68 - 136
Vinyl chloride	20.0	20.0		ug/Kg		100	70 - 134
cis-1,3-Dichloropropene	20.0	20.6		ug/Kg		103	75 - 124
Styrene	20.0	20.1		ug/Kg		101	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 135*
4-Bromofluorobenzene	*95*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*102*		*61 - 149*

Lab Sample ID: LCSD 460-534882/4
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/Kg		104	80 - 125	5	30
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/Kg		110	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/Kg		118	78 - 132	4	30
1,1,2-Trichloroethane	20.0	22.8		ug/Kg		114	76 - 124	8	30
1,1-Dichloroethane	20.0	23.6		ug/Kg		118	80 - 124	6	30
1,1-Dichloroethene	20.0	21.6		ug/Kg		108	79 - 132	2	30
1,2,4-Trichlorobenzene	20.0	19.7		ug/Kg		99	74 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/Kg		99	65 - 129	9	30
1,2-Dichlorobenzene	20.0	20.1		ug/Kg		101	80 - 121	3	30
1,2-Dichloroethane	20.0	19.2		ug/Kg		96	68 - 120	6	30
1,2-Dichloropropane	20.0	23.1		ug/Kg		115	77 - 124	3	30
1,3-Dichlorobenzene	20.0	20.4		ug/Kg		102	79 - 124	6	30
1,4-Dichlorobenzene	20.0	19.8		ug/Kg		99	79 - 121	3	30
2-Butanone (MEK)	100	87.6		ug/Kg		88	61 - 140	12	30
2-Hexanone	100	94.3		ug/Kg		94	78 - 120	3	30
4-Methyl-2-pentanone (MIBK)	100	98.6		ug/Kg		99	80 - 120	5	30
Acetone	100	90.8		ug/Kg		91	75 - 120	3	30
Benzene	20.0	23.4		ug/Kg		117	75 - 127	6	30
Bromoform	20.0	16.4		ug/Kg		82	19 - 150	3	30
Bromomethane	20.0	18.2		ug/Kg		91	59 - 136	0	30
Carbon disulfide	20.0	23.0		ug/Kg		115	74 - 130	5	30
Carbon tetrachloride	20.0	20.3		ug/Kg		102	77 - 138	4	30
Chlorobenzene	20.0	20.6		ug/Kg		103	80 - 120	5	30
Dibromochloromethane	20.0	18.7		ug/Kg		94	67 - 143	4	30
Chloroethane	20.0	19.4		ug/Kg		97	50 - 139	1	30
Chloroform	20.0	20.7		ug/Kg		104	80 - 122	5	30
Chloromethane	20.0	20.9		ug/Kg		104	66 - 128	3	30
cis-1,2-Dichloroethene	20.0	21.1		ug/Kg		106	80 - 123	4	30
Cyclohexane	20.0	23.4		ug/Kg		117	67 - 135	0	30
Bromodichloromethane	20.0	19.7		ug/Kg		99	76 - 129	4	30
Dichlorodifluoromethane	20.0	18.5		ug/Kg		92	72 - 127	3	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534882/4
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	21.2		ug/Kg		106	79 - 124	6	30
1,2-Dibromoethane			20.0	20.5		ug/Kg		102	80 - 122	7	30
Isopropylbenzene			20.0	21.7		ug/Kg		109	80 - 125	7	30
Methyl acetate			40.0	45.1		ug/Kg		113	73 - 123	3	30
Methyl tert-butyl ether			20.0	21.5		ug/Kg		107	80 - 120	5	30
Methylcyclohexane			20.0	23.7		ug/Kg		119	71 - 137	3	30
Methylene Chloride			20.0	22.2		ug/Kg		111	79 - 128	10	30
Tetrachloroethene			20.0	19.7		ug/Kg		98	73 - 130	4	30
Toluene			20.0	21.6		ug/Kg		108	75 - 122	7	30
trans-1,2-Dichloroethene			20.0	21.7		ug/Kg		109	80 - 129	3	30
trans-1,3-Dichloropropene			20.0	20.5		ug/Kg		103	72 - 121	5	30
Trichloroethene			20.0	21.5		ug/Kg		107	79 - 122	5	30
Trichlorofluoromethane			20.0	18.9		ug/Kg		94	68 - 136	10	30
Vinyl chloride			20.0	20.8		ug/Kg		104	70 - 134	4	30
cis-1,3-Dichloropropene			20.0	21.5		ug/Kg		108	75 - 124	5	30
Styrene			20.0	21.1		ug/Kg		105	78 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 135*
4-Bromofluorobenzene	*98*		*67 - 126*
Toluene-d8 (Surr)	*108*		*73 - 121*
Dibromofluoromethane (Surr)	*102*		*61 - 149*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

GC/MS VOA

Prep Batch: 531638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	5035	

Analysis Batch: 534882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	8260C	531638
MB 460-534882/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-534882/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-534882/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Analysis Batch: 533592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018
Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	533592	07/05/18 09:49	BJP	TAL EDI

Client Sample ID: PDI-16-SO-55-06262018
Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1
Matrix: Solid
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			531638	06/27/18 23:38	AVM	TAL EDI
Total/NA	Analysis	8260C		1	534882	07/10/18 11:15	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159285-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-16-SO-55-06262018	460-159285-1	107	108	103	100
	MB 460-534882/7	105	96	104	96
	LCS 460-534882/3	102	97	104	95
	LCSD 460-534882/4	102	97	108	98

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86357.D

Lab ID: LCS 460-534882/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.7	98	80-125	
1,1,2,2-Tetrachloroethane	20.0	21.6	108	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.7	114	78-132	
1,1,2-Trichloroethane	20.0	21.1	105	76-124	
1,1-Dichloroethane	20.0	22.1	111	80-124	
1,1-Dichloroethene	20.0	21.1	106	79-132	
1,2,4-Trichlorobenzene	20.0	19.3	96	74-124	
1,2-Dibromo-3-Chloropropane	20.0	18.1	90	65-129	
1,2-Dichlorobenzene	20.0	19.4	97	80-121	
1,2-Dichloroethane	20.0	18.1	91	68-120	
1,2-Dichloropropane	20.0	22.4	112	77-124	
1,3-Dichlorobenzene	20.0	19.3	96	79-124	
1,4-Dichlorobenzene	20.0	19.3	96	79-121	
2-Butanone (MEK)	100	77.3	77	61-140	
2-Hexanone	100	91.2	91	78-120	
4-Methyl-2-pentanone (MIBK)	100	93.6	94	80-120	
Acetone	100	87.7	88	75-120	
Benzene	20.0	22.0	110	75-127	
Bromoform	20.0	15.9	79	19-150	
Bromomethane	20.0	18.2	91	59-136	
Carbon disulfide	20.0	21.8	109	74-130	
Carbon tetrachloride	20.0	19.6	98	77-138	
Chlorobenzene	20.0	19.5	98	80-120	
Dibromochloromethane	20.0	18.0	90	67-143	
Chloroethane	20.0	19.6	98	50-139	
Chloroform	20.0	19.7	99	80-122	
Chloromethane	20.0	20.2	101	66-128	
cis-1,2-Dichloroethene	20.0	20.3	102	80-123	
Cyclohexane	20.0	23.3	117	67-135	
Bromodichloromethane	20.0	18.9	95	76-129	
Dichlorodifluoromethane	20.0	17.9	89	72-127	
Ethylbenzene	20.0	20.0	100	79-124	
1,2-Dibromoethane	20.0	19.1	96	80-122	
Isopropylbenzene	20.0	20.3	102	80-125	
Methyl acetate	40.0	43.9	110	73-123	
Methyl tert-butyl ether	20.0	20.4	102	80-120	
Methylcyclohexane	20.0	23.1	115	71-137	
Methylene Chloride	20.0	20.2	101	79-128	
Tetrachloroethene	20.0	18.9	95	73-130	
Toluene	20.0	20.1	101	75-122	
trans-1,2-Dichloroethene	20.0	21.0	105	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86357.D

Lab ID: LCS 460-534882/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.6	98	72-121	
Trichloroethene	20.0	20.5	102	79-122	
Trichlorofluoromethane	20.0	17.1	85	68-136	
Vinyl chloride	20.0	20.0	100	70-134	
cis-1,3-Dichloropropene	20.0	20.6	103	75-124	
Styrene	20.0	20.1	101	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86358.D

Lab ID: LCSD 460-534882/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	5	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	2	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6	118	4	30	78-132	
1,1,2-Trichloroethane	20.0	22.8	114	8	30	76-124	
1,1-Dichloroethane	20.0	23.6	118	6	30	80-124	
1,1-Dichloroethene	20.0	21.6	108	2	30	79-132	
1,2,4-Trichlorobenzene	20.0	19.7	99	2	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	19.7	99	9	30	65-129	
1,2-Dichlorobenzene	20.0	20.1	101	3	30	80-121	
1,2-Dichloroethane	20.0	19.2	96	6	30	68-120	
1,2-Dichloropropane	20.0	23.1	115	3	30	77-124	
1,3-Dichlorobenzene	20.0	20.4	102	6	30	79-124	
1,4-Dichlorobenzene	20.0	19.8	99	3	30	79-121	
2-Butanone (MEK)	100	87.6	88	12	30	61-140	
2-Hexanone	100	94.3	94	3	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	98.6	99	5	30	80-120	
Acetone	100	90.8	91	3	30	75-120	
Benzene	20.0	23.4	117	6	30	75-127	
Bromoform	20.0	16.4	82	3	30	19-150	
Bromomethane	20.0	18.2	91	0	30	59-136	
Carbon disulfide	20.0	23.0	115	5	30	74-130	
Carbon tetrachloride	20.0	20.3	102	4	30	77-138	
Chlorobenzene	20.0	20.6	103	5	30	80-120	
Dibromochloromethane	20.0	18.7	94	4	30	67-143	
Chloroethane	20.0	19.4	97	1	30	50-139	
Chloroform	20.0	20.7	104	5	30	80-122	
Chloromethane	20.0	20.9	104	3	30	66-128	
cis-1,2-Dichloroethene	20.0	21.1	106	4	30	80-123	
Cyclohexane	20.0	23.4	117	0	30	67-135	
Bromodichloromethane	20.0	19.7	99	4	30	76-129	
Dichlorodifluoromethane	20.0	18.5	92	3	30	72-127	
Ethylbenzene	20.0	21.2	106	6	30	79-124	
1,2-Dibromoethane	20.0	20.5	102	7	30	80-122	
Isopropylbenzene	20.0	21.7	109	7	30	80-125	
Methyl acetate	40.0	45.1	113	3	30	73-123	
Methyl tert-butyl ether	20.0	21.5	107	5	30	80-120	
Methylcyclohexane	20.0	23.7	119	3	30	71-137	
Methylene Chloride	20.0	22.2	111	10	30	79-128	
Tetrachloroethene	20.0	19.7	98	4	30	73-130	
Toluene	20.0	21.6	108	7	30	75-122	
trans-1,2-Dichloroethene	20.0	21.7	109	3	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86358.D

Lab ID: LCSD 460-534882/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.5	103	5	30	72-121	
Trichloroethene	20.0	21.5	107	5	30	79-122	
Trichlorofluoromethane	20.0	18.9	94	10	30	68-136	
Vinyl chloride	20.0	20.8	104	4	30	70-134	
cis-1,3-Dichloropropene	20.0	21.5	108	5	30	75-124	
Styrene	20.0	21.1	105	5	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab File ID: K86361.D Lab Sample ID: MB 460-534882/7

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS9 Date Analyzed: 07/10/2018 10:25

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534882/3	K86357.D	07/10/2018 08:47
	LCSD 460-534882/4	K86358.D	07/10/2018 09:12
PDI-16-SO-55-06262018	460-159285-1	K86363.D	07/10/2018 11:15

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab File ID: K86116.D BFB Injection Date: 07/06/2018

Instrument ID: CVOAMS9 BFB Injection Time: 00:52

Analysis Batch No.: 533800

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	103.3	
175	5.0 - 9.0 % of mass 174	8.0	(7.8) 1
176	95.0 - 101.0 % of mass 174	102.0	(98.7) 1
177	5.0 - 9.0 % of mass 176	7.6	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-533800/3	K86118.D	07/06/2018	01:46
	STD5 460-533800/4	K86119.D	07/06/2018	02:10
	STD20 460-533800/5	K86120.D	07/06/2018	02:35
	STD50 460-533800/6	K86121.D	07/06/2018	02:59
	STD200 460-533800/7	K86122.D	07/06/2018	03:23
	STD500 460-533800/8	K86123.D	07/06/2018	03:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab File ID: K86355.D BFB Injection Date: 07/10/2018

Instrument ID: CVOAMS9 BFB Injection Time: 07:57

Analysis Batch No.: 534882

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	17.2	
75	30.0 - 60.0 % of mass 95	47.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.0	
173	Less than 2.0 % of mass 174	1.3	(1.5) 1
174	50.0 - 120.00 % of mass 95	84.9	
175	5.0 - 9.0 % of mass 174	6.4	(7.5) 1
176	95.0 - 101.0 % of mass 174	85.1	(100.2) 1
177	5.0 - 9.0 % of mass 176	6.9	(8.1) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534882/2	K86356.D	07/10/2018	08:23
	LCS 460-534882/3	K86357.D	07/10/2018	08:47
	LCSD 460-534882/4	K86358.D	07/10/2018	09:12
	MB 460-534882/7	K86361.D	07/10/2018	10:25
PDI-16-SO-55-06262018	460-159285-1	K86363.D	07/10/2018	11:15

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Sample No.: CCVIS 460-534882/2 Date Analyzed: 07/10/2018 08:23

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86356.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		467631	3.36	311075	4.45	639642	5.57
UPPER LIMIT		935262	3.86	622150	4.95	1279284	6.07
LOWER LIMIT		233816	2.86	155538	3.95	319821	5.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534882/3		430600	3.35	290079	4.44	640310	5.57
LCSD 460-534882/4		431558	3.38	288105	4.45	640066	5.57
MB 460-534882/7		369228	3.37	257914	4.45	621725	5.57
460-159285-1	PDI-16-SO-55-06262018	594557	3.36	375554	4.45	605567	5.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Sample No.: CCVIS 460-534882/2 Date Analyzed: 07/10/2018 08:23

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86356.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		40636	6.27	538864	9.06	333113	11.50
UPPER LIMIT		81272	6.77	1077728	9.56	666226	12.00
LOWER LIMIT		20318	5.77	269432	8.56	166557	11.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534882/3		37123	6.27	536154	9.05	328509	11.50
LCSD 460-534882/4		36849	6.28	522352	9.06	328131	11.50
MB 460-534882/7		33347	6.28	506978	9.06	314232	11.50
460-159285-1	PDI-16-SO-55-06262018	49358	6.28	503948	9.06	322948	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: PDI-16-SO-55-06262018 | Lab Sample ID: 460-159285-1

Matrix: Solid | Lab File ID: K86363.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:05

Sample wt/vol: 6.78(g) | Date Analyzed: 07/10/2018 11:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.94	0.22
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.94	0.20
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.94	0.28
79-00-5	1,1,2-Trichloroethane	ND		0.94	0.17
75-34-3	1,1-Dichloroethane	ND		0.94	0.19
75-35-4	1,1-Dichloroethene	ND		0.94	0.21
120-82-1	1,2,4-Trichlorobenzene	ND		0.94	0.086
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.94	0.43
95-50-1	1,2-Dichlorobenzene	ND		0.94	0.14
107-06-2	1,2-Dichloroethane	ND		0.94	0.28
78-87-5	1,2-Dichloropropane	ND		0.94	0.40
541-73-1	1,3-Dichlorobenzene	ND		0.94	0.15
106-46-7	1,4-Dichlorobenzene	ND		0.94	0.094
78-93-3	2-Butanone (MEK)	2.0	J	4.7	1.0
591-78-6	2-Hexanone	ND		4.7	0.73
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.7	0.62
67-64-1	Acetone	12		4.7	3.6
71-43-2	Benzene	ND		0.94	0.24
75-25-2	Bromoform	ND		0.94	0.40
74-83-9	Bromomethane	ND		0.94	0.44
75-15-0	Carbon disulfide	ND		0.94	0.25
56-23-5	Carbon tetrachloride	ND		0.94	0.17
108-90-7	Chlorobenzene	ND		0.94	0.17
124-48-1	Dibromochloromethane	ND		0.94	0.18
75-00-3	Chloroethane	ND		0.94	0.49
67-66-3	Chloroform	ND		0.94	0.30
74-87-3	Chloromethane	ND		0.94	0.41
156-59-2	cis-1,2-Dichloroethene	ND		0.94	0.14
110-82-7	Cyclohexane	ND		0.94	0.21
75-27-4	Bromodichloromethane	ND		0.94	0.24
75-71-8	Dichlorodifluoromethane	ND		0.94	0.32
100-41-4	Ethylbenzene	ND		0.94	0.19
106-93-4	1,2-Dibromoethane	ND		0.94	0.17
98-82-8	Isopropylbenzene	ND		0.94	0.12
79-20-9	Methyl acetate	ND		4.7	4.0

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: PDI-16-SO-55-06262018 | Lab Sample ID: 460-159285-1

Matrix: Solid | Lab File ID: K86363.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:05

Sample wt/vol: 6.78(g) | Date Analyzed: 07/10/2018 11:15

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 21.4 | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.94	0.12
108-87-2	Methylcyclohexane	ND		0.94	0.15
75-09-2	Methylene Chloride	0.76	J	0.94	0.15
127-18-4	Tetrachloroethene	0.34	J	0.94	0.13
108-88-3	Toluene	ND		0.94	0.59
156-60-5	trans-1,2-Dichloroethene	ND		0.94	0.23
10061-02-6	trans-1,3-Dichloropropene	ND		0.94	0.25
79-01-6	Trichloroethene	1.1		0.94	0.14
75-69-4	Trichlorofluoromethane	ND		0.94	0.38
75-01-4	Vinyl chloride	ND		0.94	0.51
1330-20-7	Xylenes, Total	ND		1.9	0.24
10061-01-5	cis-1,3-Dichloropropene	ND		0.94	0.26
100-42-5	Styrene	ND		0.94	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		78-135
460-00-4	4-Bromofluorobenzene	100		67-126
2037-26-5	Toluene-d8 (Surr)	103		73-121
1868-53-7	Dibromofluoromethane (Surr)	107		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D
Lims ID: 460-159285-C-1-A
Client ID: PDI-16-SO-55-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 11:15:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159285-C-1-A
Misc. Info.: 460-0075170-009
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:54:12 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:54:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.010	3.004	0.006	86	18968	12.4	
* 25 TBA-d9 (IS)	65	3.364	3.358	0.006	0	594557	1000.0	
26 Methylene Chloride	84	3.376	3.370	0.006	31	3566	0.8060	M
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	375554	250.0	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	97	1484	2.12	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	223567	53.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	208316	53.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	605567	50.0	
63 Trichloroethene	95	5.936	5.930	0.006	92	4916	1.14	
* 67 1,4-Dioxane-d8	96	6.278	6.266	0.012	0	49358	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	686375	51.3	
83 Tetrachloroethene	166	7.954	7.954	0.000	96	2022	0.3649	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	503948	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	269368	49.8	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	93	322948	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

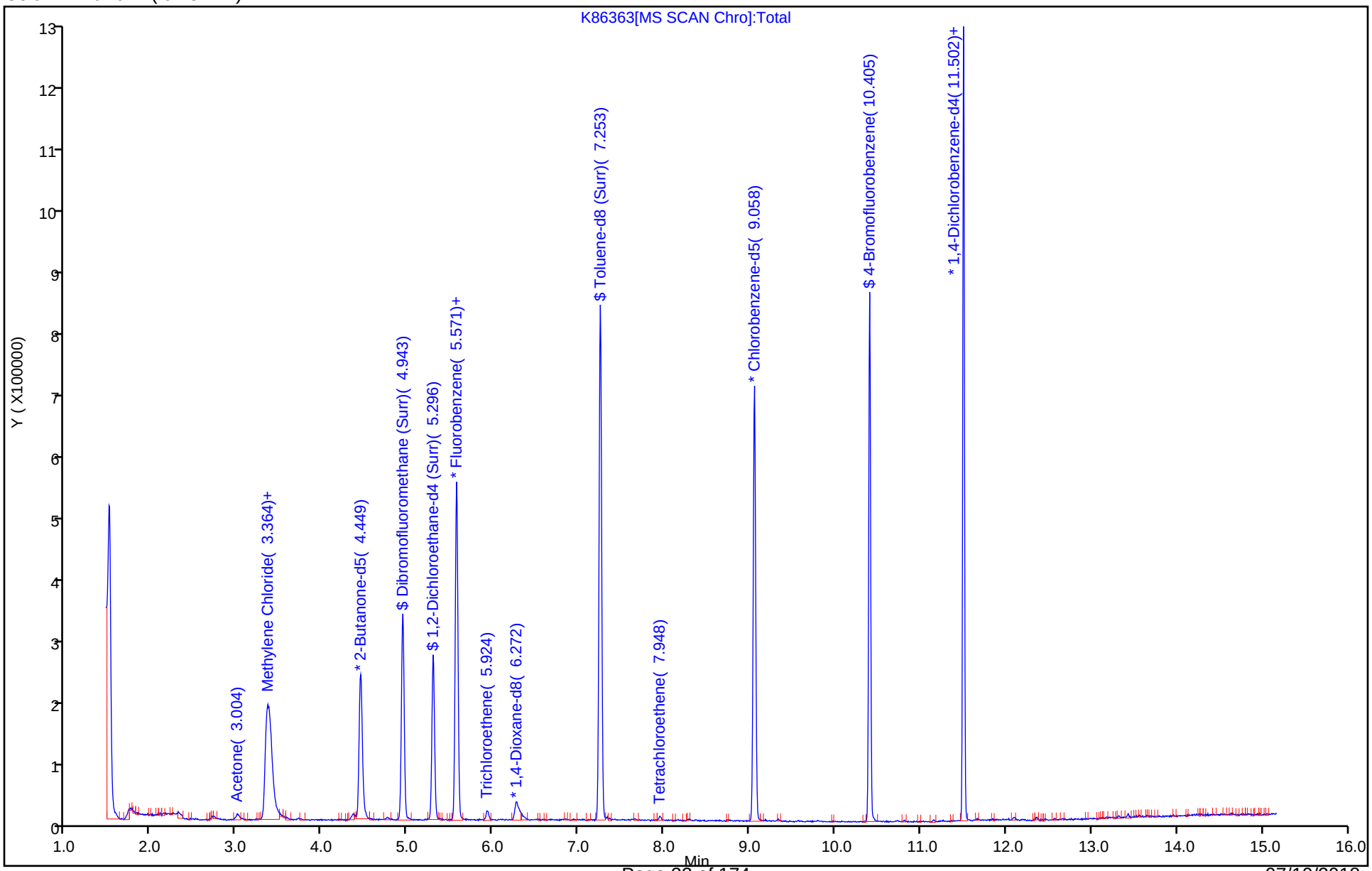
Report Date: 10-Jul-2018 12:54:13 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D

Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1	Worklist Smp#:	9
Client ID:	PDI-16-SO-55-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

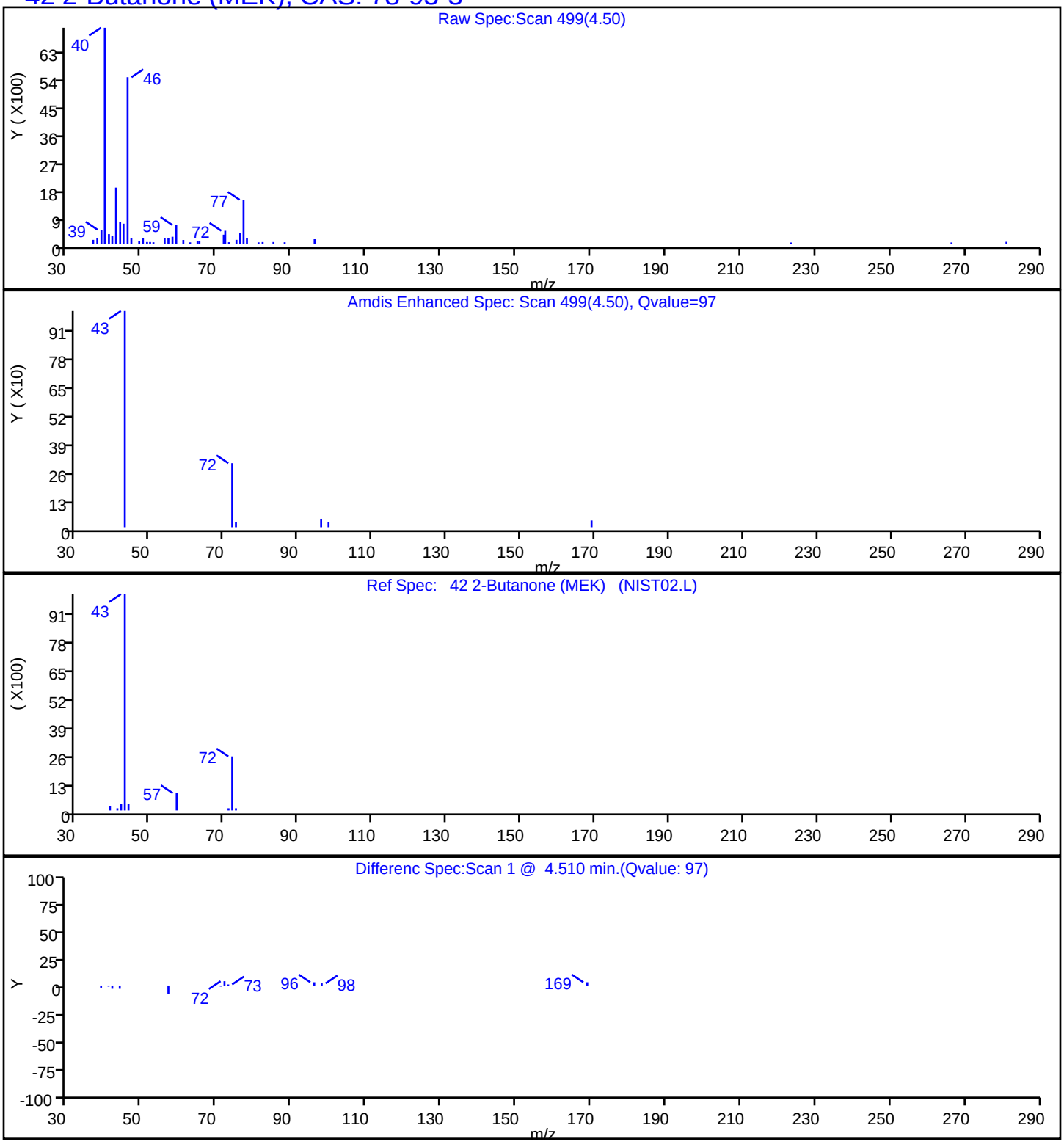
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D				
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1		
Client ID:	PDI-16-SO-55-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

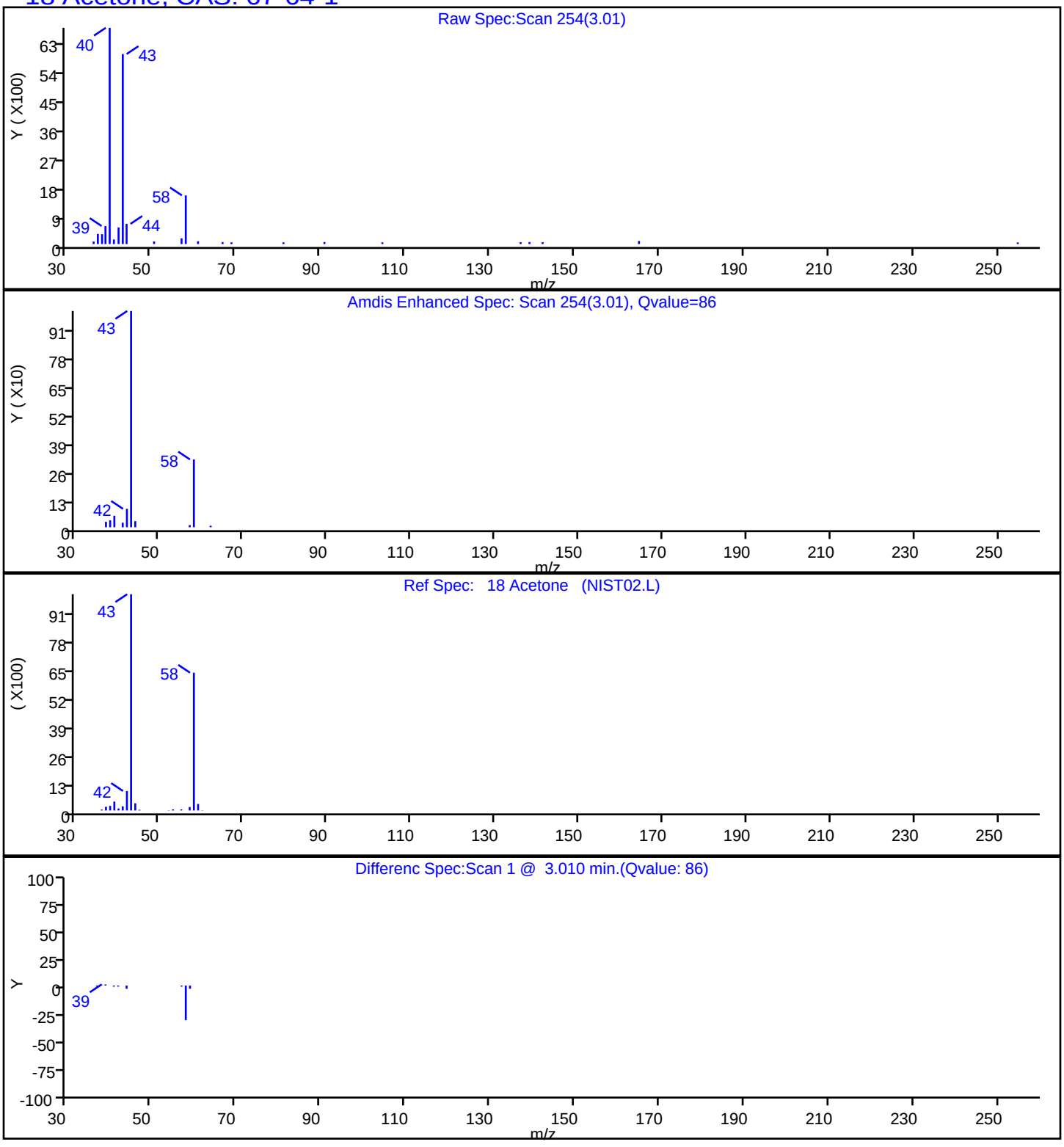
42 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D		
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1
Client ID:	PDI-16-SO-55-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

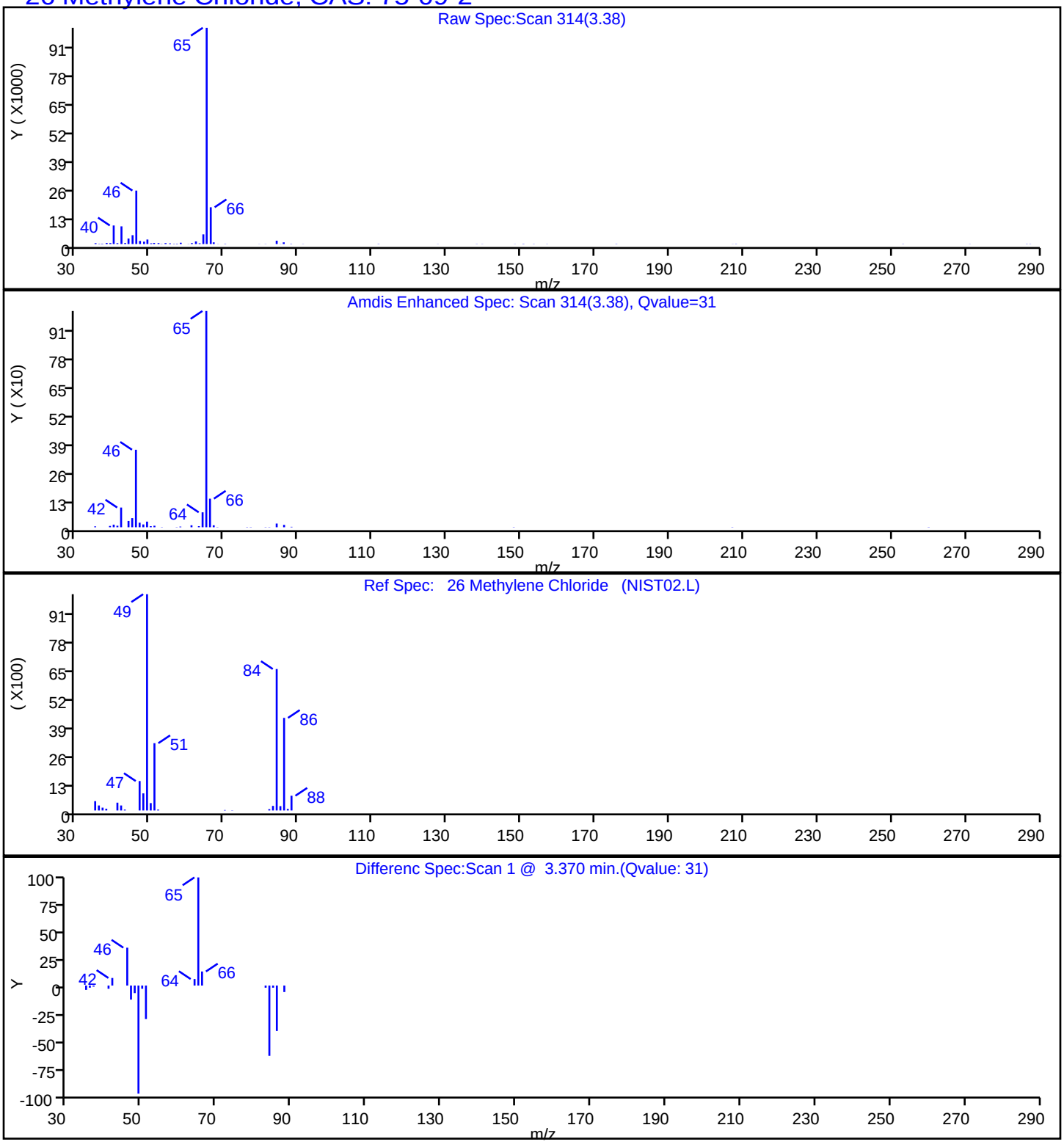
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D				
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1		
Client ID:	PDI-16-SO-55-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

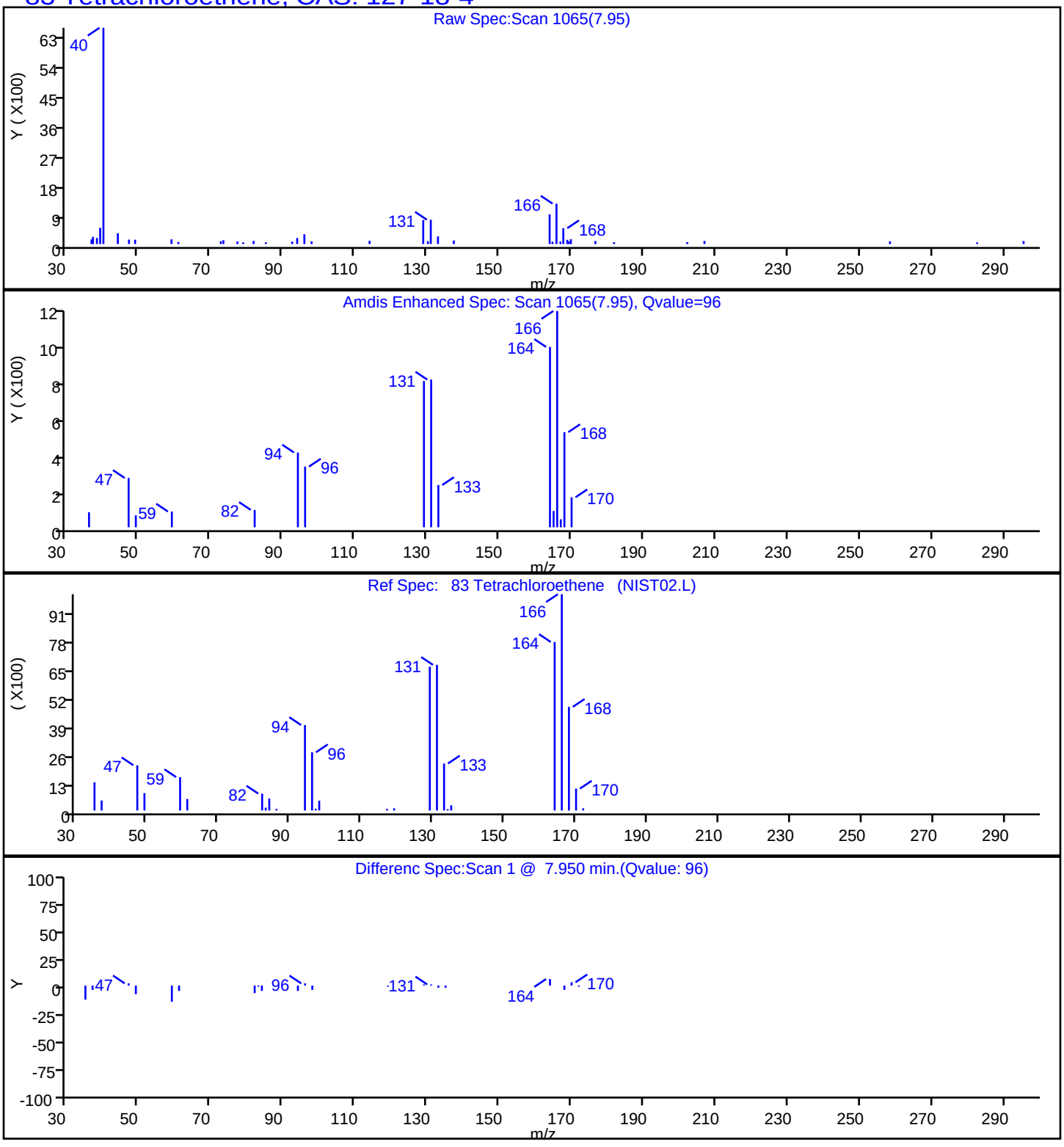
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D		
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1
Client ID:	PDI-16-SO-55-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

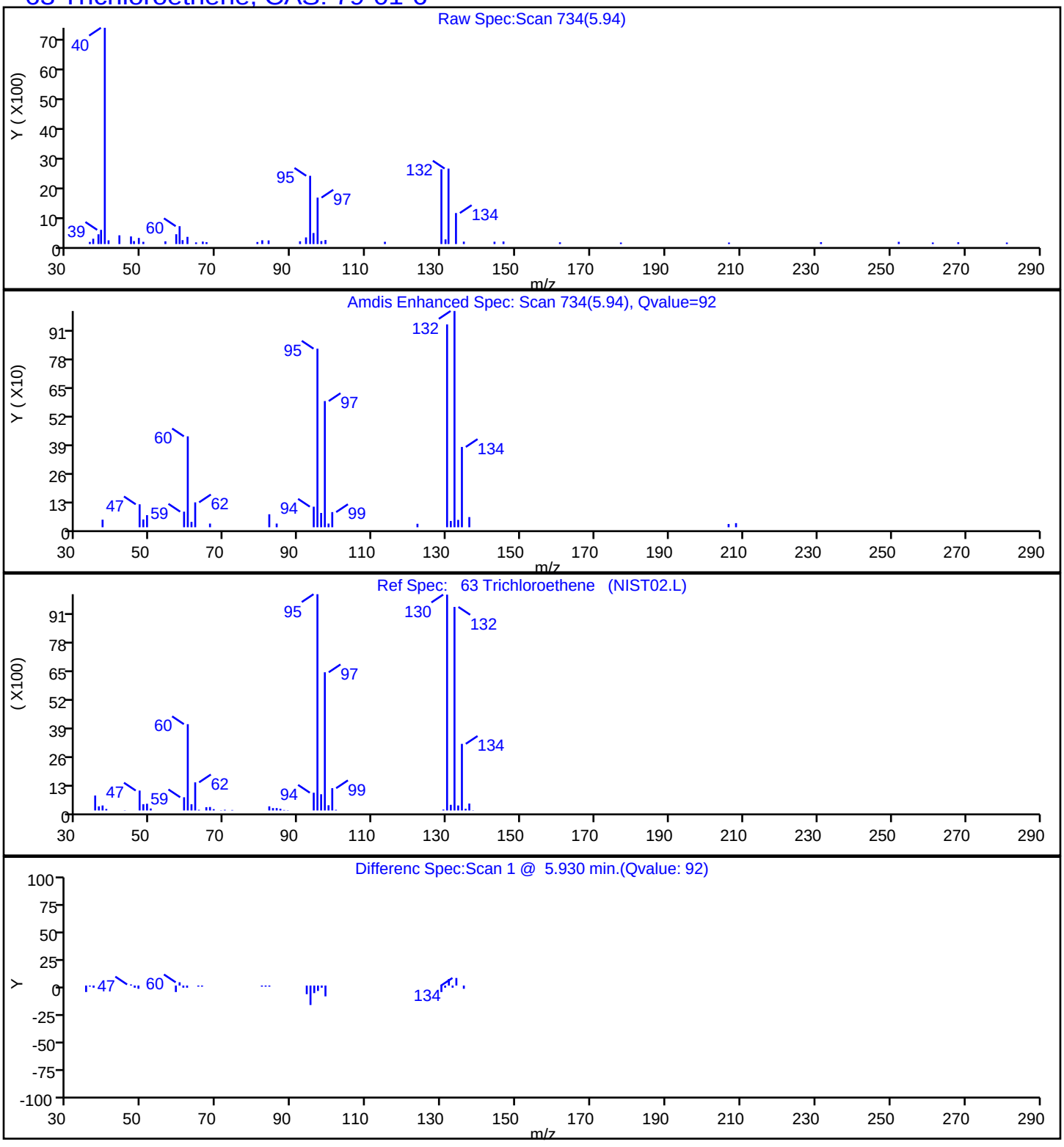
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D		
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1
Client ID:	PDI-16-SO-55-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

63 Trichloroethene, CAS: 79-01-6



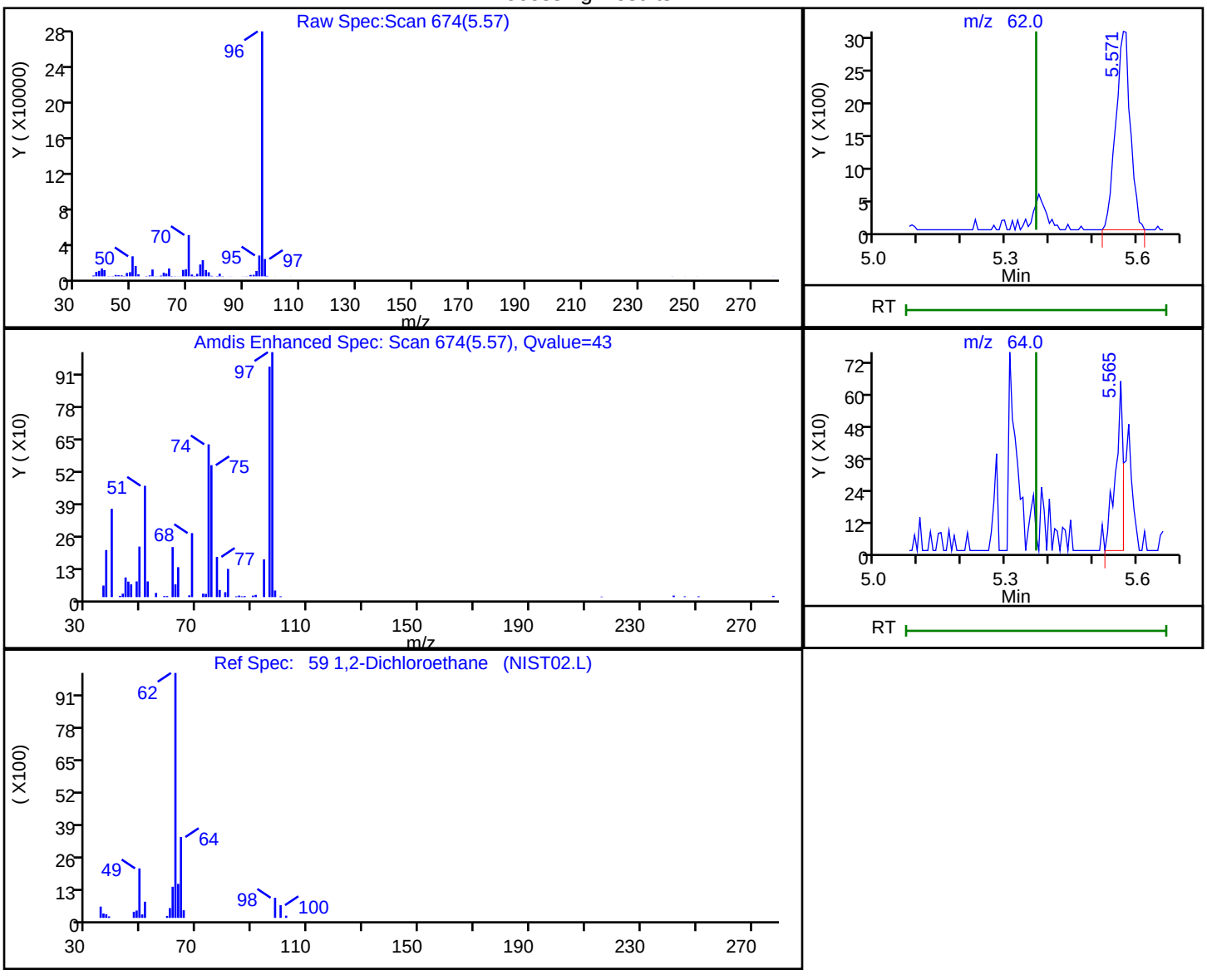
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D		
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1
Client ID:	PDI-16-SO-55-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.57	62.00	7053	1.300910
5.56	64.00	776	

Reviewer: delpolitov, 10-Jul-2018 12:53:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

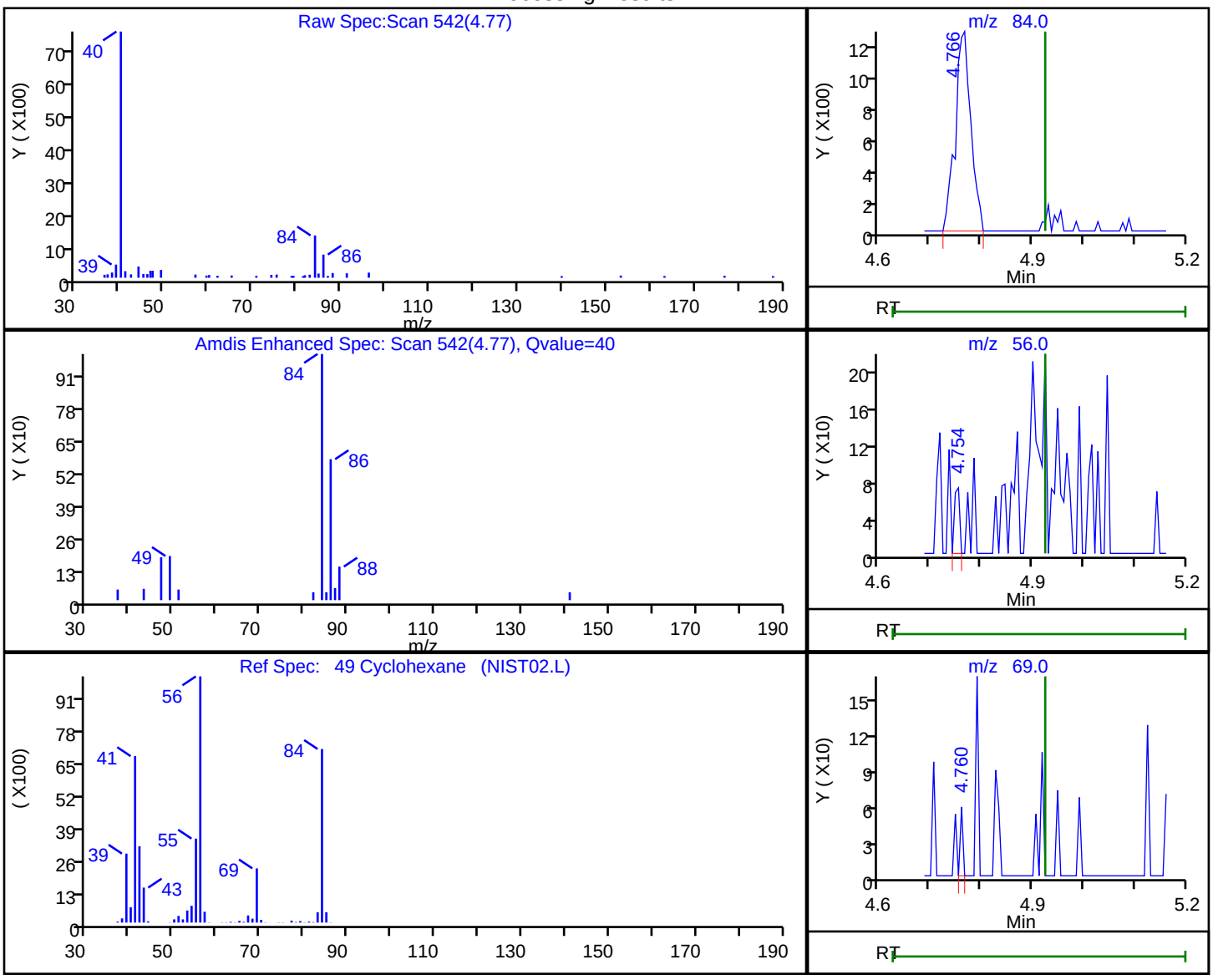
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D		
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1
Client ID:	PDI-16-SO-55-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.77	84.00	2742	0.490913
4.75	56.00	49	
4.76	69.00	21	

Reviewer: delpolitov, 10-Jul-2018 12:53:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

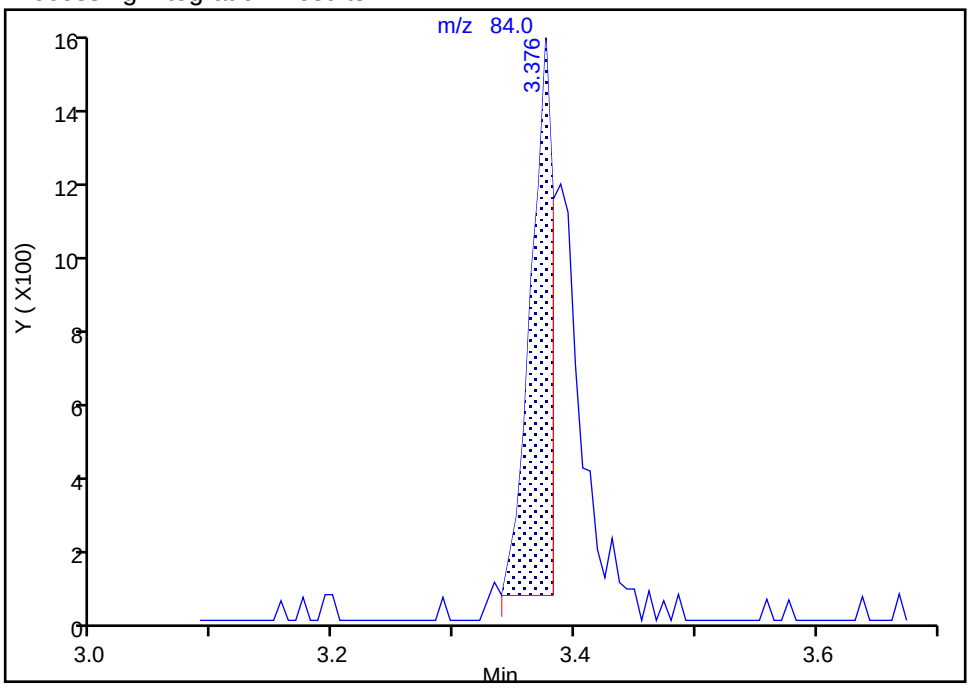
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86363.D				
Injection Date:	10-Jul-2018 11:15:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159285-C-1-A	Lab Sample ID:	460-159285-1		
Client ID:	PDI-16-SO-55-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

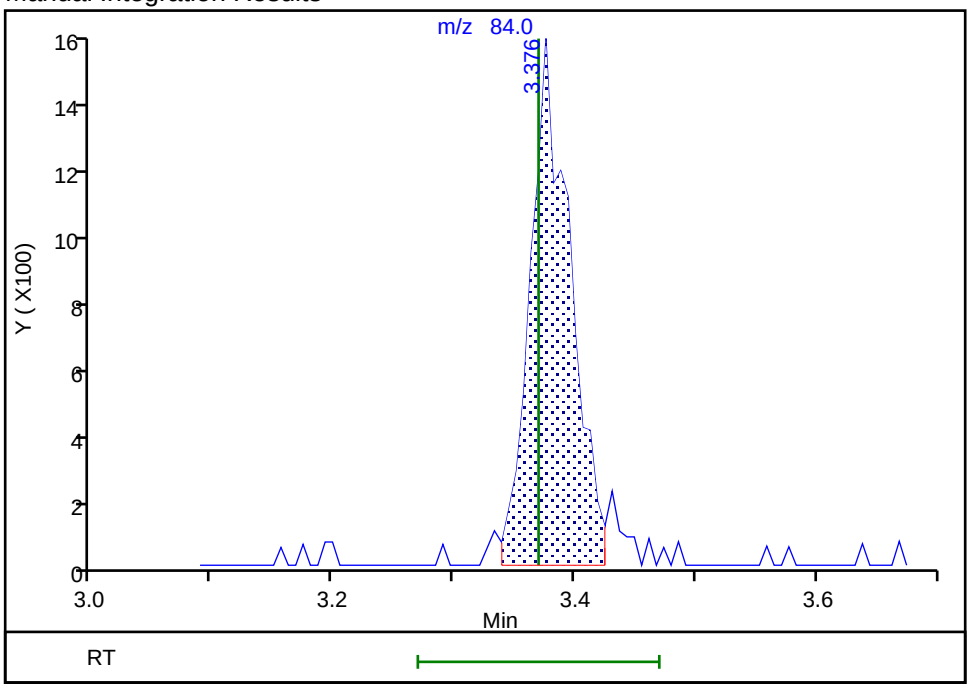
Processing Integration Results

RT: 3.38
Area: 1906
Amount: 0.430806
Amount Units: ug/l



Manual Integration Results

RT: 3.38
Area: 3566
Amount: 0.806009
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 12:53:28

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2306 0.2568	0.1967	0.2501	0.2440	0.2679	Ave		0.2410				10.4		20.0			
Dichlorodifluoromethane	0.3764 0.5483	0.4582	0.5343	0.5260	0.5675	Ave		0.5018			0.1000	14.3		20.0			
Chloromethane	0.4231 0.4348	0.3828	0.3978	0.3922	0.4455	Ave		0.4127			0.1000	6.1		20.0			
Vinyl chloride	0.3914 0.4507	0.3796	0.4312	0.4289	0.4605	Ave		0.4237			0.1000	7.6		20.0			
Butadiene	0.2791 0.3682	0.3225	0.3443	0.3398	0.3677	Ave		0.3369				9.9		20.0			
Bromomethane	0.4141 0.3727	0.3685	0.3886	0.3828	0.3980	Ave		0.3874			0.1000	4.4		20.0			
Chloroethane	0.2015 0.2343	0.2226	0.2354	0.2357	0.2421	Ave		0.2286			0.1000	6.4		20.0			
Trichlorofluoromethane	0.5863 0.6378	0.6324	0.7143	0.7174	0.7382	Ave		0.6711			0.1000	9.0		20.0			
Dichlorofluoromethane	0.5386 0.5915	0.6281	0.6705	0.6850	0.7053	Ave		0.6365				9.9		20.0			
Pentane	1.8369 1.5228	1.2693	1.3554	1.5388	1.7505	Ave		1.5456				14.2		20.0			
Ethyl ether	0.2238 0.1878	0.1986	0.1898	0.1883	0.1853	Ave		0.1956				7.4		20.0			
Ethanol	0.0258 0.0448	0.0390	0.0455	0.0467	0.0443	Ave		0.0410				19.3		20.0			
2-Methyl-1,3-butadiene	0.2057 0.2171	0.1950	0.2176	0.2190	0.2064	Ave		0.2101				4.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3019 0.3360	0.3028	0.3427	0.3567	0.3430	Ave		0.3305				6.9		20.0			
Acrolein	1.0981 1.0459	1.0389	1.0719	1.0872	1.0307	Ave		1.0621				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3308 0.3630	0.3372	0.3619	0.3794	0.3691	Ave		0.3569			0.1000	5.3		20.0			
1,1-Dichloroethene	0.3868 0.3170	0.2996	0.3192	0.3114	0.3150	Ave		0.3248			0.1000	9.6		20.0			
Acetone	1.2493 0.9161	1.1095	0.9669	0.9028	0.9833	Ave		1.0213			0.0500	13.1		20.0			
Iodomethane	0.8551 0.7497	0.7248	0.8072	0.7849	0.7705	Ave		0.7820				5.8		20.0			
Isopropyl alcohol	0.5244 0.7287	0.7432	0.7084	0.6765	0.7352	Ave		0.6861				12.1		20.0			
Carbon disulfide	1.1786 1.0613	0.9386	1.0428	1.0409	1.0583	Ave		1.0534			0.1000	7.3		20.0			
Allyl chloride	0.1827 0.1952	0.1806	0.1925	0.1920	0.1891	Ave		0.1887				3.1		20.0			
Methyl acetate	5.8101 5.3004	4.9496	4.7388	4.9080	5.2972	Ave		5.1673			0.1000	7.5		20.0			
Cyclopentene	0.6240 0.6427	0.5548	0.6749	0.6674	0.6350	Ave		0.6331				6.8		20.0			
Acetonitrile	1.6589 1.1783	1.2709	1.2187	1.1942	1.2161	Ave		1.2895				14.2		20.0			
Methylene Chloride	0.4528 0.3367	0.3639	0.3518	0.3460	0.3406	Ave		0.3653			0.1000	12.0		20.0			
2-Methyl-2-propanol	1.7077 1.3940	1.5735	1.4118	1.3838	1.4295	Ave		1.4834				8.8		20.0			
Methyl tert-butyl ether	1.0368 0.8708	0.9057	0.9414	0.9029	0.9073	Ave		0.9275			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	0.3806 0.3346	0.3442	0.3512	0.3550	0.3426	Ave		0.3514			0.1000	4.6		20.0			
Acrylonitrile	0.0857 0.0848	0.0863	0.0864	0.0822	0.0852	Ave		0.0851				1.8		20.0			
Hexane	0.2252 0.2062	0.1591	0.2030	0.1954	0.2029	Ave		0.1986				11.0		20.0			
Isopropyl ether	0.8019 0.7360	0.7017	0.7376	0.7328	0.7317	Ave		0.7403				4.5		20.0			
1,1-Dichloroethane	0.5822 0.4962	0.4843	0.5213	0.5040	0.5075	Ave		0.5159			0.2000	6.7		20.0			
Vinyl acetate	2.2095 1.8781	1.8221	1.8890	1.8803	1.9556	Ave		1.9391				7.2		20.0			
2-Chloro-1,3-butadiene	0.2807 0.2848	0.2771	0.2886	0.3008	0.2858	Ave		0.2863				2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.9732 0.8334	0.8301	0.8742	0.8591	0.8365	Ave		0.8678				6.3		20.0			
2,2-Dichloropropane	0.1653 0.1566	0.1641	0.1704	0.1672	0.1634	Ave		0.1645				2.8		20.0			
cis-1,2-Dichloroethene	0.4905 0.3836	0.4037	0.4161	0.4063	0.3971	Ave		0.4162			0.1000	9.1		20.0			
Ethyl acetate	0.6799 0.3703	0.3543	0.3972	0.3828	0.3899	Qua2	0.6247	0.3563	0.0000245						0.9900		0.9900
2-Butanone (MEK)	0.5951 0.4088	0.4774	0.4438	0.4260	0.4412	Ave		0.4654			0.0500	14.5		20.0			
Methyl acrylate	0.2052 0.2130	0.2060	0.1999	0.1933	0.2079	Ave		0.2042				3.3		20.0			
Propionitrile	1.4709 1.2271	1.1276	1.1872	1.2023	1.2331	Ave		1.2414				9.6		20.0			
Tetrahydrofuran	0.6251 0.4790	0.5530	0.5048	0.5167	0.5248	Ave		0.5339				9.5		20.0			
Chlorobromomethane	0.2645 0.2147	0.2350	0.2365	0.2290	0.2245	Ave		0.2340				7.2		20.0			
Methacrylonitrile	0.1082 0.1069	0.1038	0.1075	0.1053	0.1074	Ave		0.1065				1.6		20.0			
Chloroform	0.7176 0.5948	0.6012	0.6201	0.6248	0.6131	Ave		0.6286			0.2000	7.2		20.0			
Cyclohexane	0.4162 0.4760	0.4042	0.4859	0.4931	0.4917	Ave		0.4612			0.1000	8.7		20.0			
1,1,1-Trichloroethane	0.6241 0.5816	0.5741	0.6210	0.6129	0.6001	Ave		0.6023			0.1000	3.5		20.0			
Carbon tetrachloride	0.5413 0.5360	0.4853	0.5531	0.5503	0.5399	Ave		0.5343			0.1000	4.7		20.0			
1,1-Dichloropropene	0.4757 0.4172	0.3753	0.4374	0.4315	0.4264	Ave		0.4272				7.6		20.0			
Isobutyl alcohol	0.0689 0.0581	0.0446	0.0566	0.0524	0.0608	Ave		0.0569				14.3		20.0			
Benzene	1.6027 1.3401	1.3709	1.4541	1.4276	1.4322	Ave		1.4379			0.5000	6.3		20.0			
Isopropyl acetate	0.8181 0.8625	0.7362	0.7767	0.7736	0.8129	Ave		0.7967				5.5		20.0			
Tert-amyl methyl ether	0.3368 0.3021	0.2979	0.3158	0.3132	0.3087	Ave		0.3124				4.4		20.0			
1,2-Dichloroethane	0.5565 0.4219	0.4389	0.4272	0.4169	0.4245	Ave		0.4476			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.2452 0.2444	0.1892	0.2407	0.2383	0.2327	Ave		0.2317				9.2		20.0			
n-Butanol	0.3360 0.3375	0.2408	0.2858	0.2905	0.3260	Ave		0.3028				12.5		20.0			
Trichloroethene	0.3424 0.3609	0.3347	0.3673	0.3606	0.3641	Ave		0.3550			0.2000	3.7		20.0			
Ethyl acrylate	0.2319 0.1693	0.1584	0.1811	0.1711	0.1684	Ave		0.1800				14.7		20.0			
Methylcyclohexane	0.5304 0.5839	0.5263	0.6331	0.6206	0.6060	Ave		0.5834			0.1000	7.8		20.0			
1,2-Dichloropropane	0.2984 0.2725	0.2571	0.2627	0.2674	0.2718	Ave		0.2717			0.1000	5.3		20.0			
Methyl methacrylate	0.1436 0.1842	0.1639	0.1719	0.1690	0.1821	Ave		0.1691				8.7		20.0			
n-Propyl acetate	0.3371 0.3319	0.2894	0.2963	0.2906	0.3188	Ave		0.3107				6.9		20.0			
1,4-Dioxane	1.6427 1.3603	1.3974	1.5809	1.3814	1.5760	Ave		1.4898				8.3		20.0			
Dibromomethane	0.2678 0.2238	0.2274	0.2227	0.2174	0.2248	Ave		0.2306				8.0		20.0			
Bromodichloromethane	0.4764 0.4585	0.4127	0.4422	0.4321	0.4523	Ave		0.4457			0.2000	5.0		20.0			
2-Chloroethyl vinyl ether	0.1480 0.1564	0.1344	0.1422	0.1416	0.1484	Ave		0.1452				5.2		20.0			
2-Nitropropane	0.0736 0.0653	0.0461	0.0511	0.0485	0.0569	Ave		0.0569				18.8		20.0			
Epichlorohydrin	0.3360 0.3293	0.3068	0.3262	0.3286	0.3445	Ave		0.3286				3.8		20.0			
cis-1,3-Dichloropropene	0.6173 0.5538	0.4965	0.5299	0.5310	0.5639	Ave		0.5487			0.2000	7.5		20.0			
4-Methyl-2-pentanone (MIBK)	3.2468 2.8954	2.8918	3.0767	3.0726	3.1503	Ave		3.0556			0.0500	4.6		20.0			
Toluene	1.8989 1.5874	1.5675	1.6625	1.6525	1.6651	Ave		1.6723			0.4000	7.1		20.0			
trans-1,3-Dichloropropene	0.5617 0.5092	0.4517	0.4793	0.4826	0.5080	Ave		0.4988			0.1000	7.5		20.0			
Ethyl methacrylate	0.4379 0.3916	0.3768	0.3876	0.3854	0.4035	Ave		0.3971				5.5		20.0			
1,1,2-Trichloroethane	0.2674 0.2574	0.2447	0.2553	0.2555	0.2633	Ave		0.2573			0.1000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.6127 0.5188	0.5028	0.5608	0.5590	0.5444	Ave		0.5497			0.2000	7.0		20.0			
1,3-Dichloropropane	0.5452 0.4659	0.4469	0.4536	0.4517	0.4683	Ave		0.4719				7.8		20.0			
2-Hexanone	2.1052 1.9027	1.8446	1.9433	1.9298	2.0055	Ave		1.9552			0.0500	4.6		20.0			
n-Butyl acetate	0.4440 0.3711	0.3788	0.3699	0.3573	0.3715	Ave		0.3821				8.1		20.0			
Dibromochloromethane	0.4003 0.4358	0.3819	0.3900	0.3971	0.4303	Ave		0.4059			0.1000	5.4		20.0			
1,2-Dibromoethane	0.3827 0.3541	0.3516	0.3623	0.3502	0.3628	Ave		0.3606			0.1000	3.3		20.0			
Chlorobenzene	1.2760 1.1373	1.1211	1.1862	1.1716	1.1769	Ave		1.1782			0.5000	4.6		20.0			
Ethylbenzene	0.6871 0.6038	0.6001	0.6509	0.6436	0.6362	Ave		0.6370			0.1000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.5322 0.4745	0.4594	0.4857	0.4867	0.4966	Ave		0.4892				5.0		20.0			
m-Xylene & p-Xylene	0.8587 0.7413	0.7371	0.7869	0.7905	0.7831	Ave		0.7829			0.1000	5.6		20.0			
n-Butyl acrylate	0.2432 0.2289	0.2326	0.2405	0.2378	0.2385	Ave		0.2369				2.2		20.0			
o-Xylene	0.9008 0.7696	0.7879	0.8248	0.8293	0.8197	Ave		0.8220			0.3000	5.5		20.0			
Styrene	1.2096 1.2406	1.2023	1.2941	1.2971	1.3014	Ave		1.2575			0.3000	3.6		20.0			
Amyl acetate (mixed isomers)	0.6899 0.7447	0.6903	0.6807	0.7042	0.7374	Ave		0.7079				3.8		20.0			
Bromoform	0.3000 0.2917	0.2547	0.2580	0.2586	0.2834	Ave		0.2744			0.1000	7.2		20.0			
Isopropylbenzene	2.1553 2.0303	1.9760	2.2243	2.2254	2.1859	Ave		2.1329			0.1000	4.9		20.0			
Bromobenzene	1.0419 0.9589	0.9245	0.9616	0.9706	0.9929	Ave		0.9751				4.1		20.0			
1,1,2,2-Tetrachloroethane	0.7554 0.6963	0.6327	0.6877	0.6775	0.7151	Ave		0.6941			0.3000	5.9		20.0			
N-Propylbenzene	3.5407 3.5670	3.3595	3.6474	3.7685	3.7292	Ave		3.6021				4.1		20.0			
1,2,3-Trichloropropane	0.2081 0.2170	0.2277	0.2105	0.2187	0.2240	Ave		0.2177				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.1897 0.1624	0.1427	0.1558	0.1533	0.1640	Ave		0.1613				9.8		20.0			
2-Chlorotoluene	2.5980 2.4982	2.3185	2.4953	2.5839	2.5670	Ave		2.5101				4.1		20.0			
4-Ethyltoluene	3.3807 3.1756	3.0726	3.3124	3.4184	3.3009	Ave		3.2768				4.0		20.0			
1,3,5-Trimethylbenzene	2.7404 2.9394	2.5760	2.9056	2.9968	3.0613	Ave		2.8699				6.3		20.0			
4-Chlorotoluene	2.0696 2.1461	1.9264	2.0888	2.1511	2.1913	Ave		2.0956				4.5		20.0			
Butyl Methacrylate	0.7661 0.8539	0.7483	0.8064	0.8295	0.8649	Ave		0.8115				5.8		20.0			
tert-Butylbenzene	2.3028 2.5766	2.0843	2.4312	2.5951	2.6497	Ave		2.4400				8.8		20.0			
1,2,4-Trimethylbenzene	2.9255 3.0019	2.7827	3.0278	3.1040	3.1400	Ave		2.9970				4.3		20.0			
sec-Butylbenzene	3.5737 3.7242	3.1956	3.7296	3.9103	3.9248	Ave		3.6764				7.3		20.0			
4-Isopropyltoluene	3.4155 3.4130	3.0346	3.4917	3.6283	3.6213	Ave		3.4341				6.3		20.0			
1,3-Dichlorobenzene	2.0296 1.7236	1.7577	1.8869	1.8838	1.8311	Ave		1.8521			0.6000	5.9		20.0			
1,4-Dichlorobenzene	2.1226 1.7318	1.8354	1.8599	1.8622	1.8325	Ave		1.8741			0.5000	7.0		20.0			
Benzyl chloride	1.4558 1.4598	1.4279	1.4559	1.4510	1.5021	Ave		1.4588				1.7		20.0			
Indan	3.2506 3.1065	3.0707	3.2439	3.2908	3.2616	Ave		3.2040				2.9		20.0			
p-Diethylbenzene	1.9731 1.8593	1.8931	2.1311	2.1148	1.9530	Ave		1.9874				5.7		20.0			
n-Butylbenzene	1.5237 1.5860	1.4617	1.6562	1.7008	1.6761	Ave		1.6008				5.9		20.0			
1,2-Dichlorobenzene	1.9968 1.7888	1.7862	1.8859	1.9017	1.8867	Ave		1.8743			0.4000	4.2		20.0			
1,2,4,5-Tetramethylbenzene	3.3549 3.3554	3.1987	3.4869	3.6409	3.5939	Ave		3.4384				4.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1682 0.1425	0.1403	0.1317	0.1313	0.1440	Ave		0.1430			0.0500	9.4		20.0			
1,3,5-Trichlorobenzene	1.8160 1.5629	1.7148	1.7642	1.7545	1.6665	Ave		1.7132				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.7451 1.4720	1.6259	1.6639	1.6663	1.6059	Ave		1.6298			0.2000	5.6		20.0			
Hexachlorobutadiene	0.7920 0.7976	0.7046	0.8139	0.8438	0.8333	Ave		0.7975				6.2		20.0			
Naphthalene	3.6044 3.1733	3.3595	3.4411	3.4195	3.4048	Ave		3.4004				4.1		20.0			
1,2,3-Trichlorobenzene	1.6823 1.4362	1.5316	1.6274	1.6007	1.5582	Ave		1.5727				5.4		20.0			
Dibromofluoromethane (Surr)	0.3539 0.3345	0.3588	0.3509	0.3333	0.3329	Ave		0.3441				3.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3114 0.3550	0.3059	0.3067	0.3097	0.3294	Ave		0.3197				6.0		20.0			
Toluene-d8 (Surr)	1.3560 1.3187	1.3122	1.3247	1.3282	1.3282	Ave		1.3280				1.1		20.0			
4-Bromofluorobenzene	0.5506 0.5180	0.5434	0.5535	0.5300	0.5269	Ave		0.5371				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	2261 1581916	10049	52418	130419	607536	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Ave	3690 3377692	23410	111998	281125	1286845	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	4148 2678351	19558	83388	209589	1010119	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	3837 2776562	19396	90381	229225	1044128	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	2736 2267895	16478	72182	181610	833795	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	4060 2295633	18827	81457	204558	902516	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1976 1443523	11373	49348	125970	549048	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	5748 3928777	32312	149729	383407	1674031	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	5281 3643782	32091	140559	366071	1599349	1.00 500	5.00	20.0	50.0	200
Pentane	TBAd9	Ave	1055 544545	4094	17093	46935	227930	2.00 1000	10.0	40.0	100	400
Ethyl ether	FB	Ave	2194 1156540	10146	39782	100630	420279	1.00 500	5.00	20.0	50.0	200
Ethanol	TBAd9	Ave	296 320534	2517	11486	28493	115315	40.0 20000	200	800	2000	8000
2-Methyl-1,3-butadiene	FB	Ave	2017 1337127	9964	45609	117038	468066	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	2960 2069978	15471	71847	190654	777768	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	31536 224402	67018	101383	132647	167756	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3243 2235757	17230	75863	202738	837057	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	3792 1952859	15305	66915	166446	714314	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	Ave	4442 2274136	21583	75553	176068	842718	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	8384 4617815	37031	169207	419457	1747261	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	1506 1302896	11986	44664	103170	478640	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	11556 6537358	47954	218590	556272	2399859	1.00 500	5.00	20.0	50.0	200
Allyl chloride	FB	Ave	1791 1202538	9229	40344	102616	428768	1.00 500	5.00	20.0	50.0	200
Methyl acetate	TBAd9	Ave	3337 1895329	15964	59759	149700	689720	2.00 1000	10.0	40.0	100	400
Cyclopentene	FB	Ave	6118 3958854	28347	141480	356651	1439985	1.00 500	5.00	20.0	50.0	200
Acetonitrile	TBAd9	Ave	4764 2106672	20495	76843	182117	791685	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	4439 2074080	18594	73739	184920	772369	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	4904 2492265	25375	89019	211033	930632	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	10165 5364126	46271	197329	482529	2057279	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	3732 2061170	17585	73612	189715	776878	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	8398 5224689	44073	181194	439324	1931080	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	2208 1270133	8126	42552	104407	460117	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	7862 4533607	35852	154624	391625	1659263	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	5708 3056763	24741	109284	269363	1150773	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	TBAd9	Ave	1269 671562	5877	23821	57351	254633	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	2752 1754438	14158	60491	160745	648116	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	9542 5133710	42410	183248	459151	1896772	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	1621 964832	8382	35715	89356	370450	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	4809 2362856	20626	87227	217144	900467	1.00 500	5.00	20.0	50.0	200
Ethyl acetate	BUT	Qua2	967 367753	2757	12416	29864	133642	2.00 1000	10.0	40.0	100	400
2-Butanone (MEK)	BUT	Ave	2116 1014737	9286	34679	83071	378071	5.00 2500	25.0	100	250	1000
Methyl acrylate	FB	Ave	2012 1312106	10523	41899	103291	471496	1.00 500	5.00	20.0	50.0	200
Propionitrile	TBAd9	Ave	4224 2193917	18185	74854	183361	802779	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	889 475618	4303	15777	40304	179889	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	2593 1322454	12006	49578	122405	509139	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	10612 6585300	53044	225394	562513	2435931	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	7036 3664152	30715	129987	333917	1390169	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	4081 2931920	20650	101855	263540	1114906	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	6119 3582611	29332	130186	327534	1360855	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	5307 3301487	24796	115933	294074	1224185	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	4664 2569628	19172	91697	230608	966910	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	495 259572	1798	8917	19987	98909	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	13254 7522135	59717	263486	665118	2855529	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	8021 5312631	37612	162815	413420	1843436	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	3302 1860834	15219	66196	167390	700029	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	5456 2598734	22423	89552	222791	962696	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	2404 1505522	9667	50453	127334	527709	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	2412 1508710	9707	45046	110752	530638	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	3357 2223117	17099	76997	192736	825738	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	2274 1042735	8095	37954	91463	381762	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	5200 3596894	26889	132704	331651	1374050	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2926 1678479	13133	55073	142919	616377	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	2815 2269442	16744	72070	180614	825729	2.00 1000	10.0	40.0	100	400
n-Propyl acetate	FB	Ave	3305 2044198	14785	62119	155324	722807	1.00 500	5.00	20.0	50.0	200
1,4-Dioxane	DXE	Ave	832 469341	4033	18123	41357	181733	20.0 10000	100	400	1000	4000
Dibromomethane	FB	Ave	2626 1378497	11618	46676	116161	509861	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	4671 2824018	21083	92702	230925	1025706	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	1451 963542	6869	29805	75700	336535	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	1443 804088	4711	21432	51826	257855	2.00 1000	10.0	40.0	100	400
Epichlorohydrin	BUT	Ave	4778 3270235	23871	101973	256352	1180824	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	5105 3108588	21627	96016	247393	1124267	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	11544 7187745	56254	240422	599225	2699838	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	15703 8910383	68282	301255	769909	3319799	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	4645 2858319	19676	86857	224848	1012794	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	CBNZ d5	Ave	3621 2198043	16415	70228	179539	804595	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	2211 1444634	10661	46261	119023	524975	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	5067 2911873	21904	101618	260413	1085505	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	4509 2615165	19466	82201	210429	933709	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	7485 4723504	35883	151851	376353	1718735	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	3672 2083090	16499	67025	166473	740660	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromochloromethane	CBNZ d5	Ave	3310 2446176	16637	70673	185004	857879	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBNZ d5	Ave	3165 1987867	15316	65649	163141	723392	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	10552 6383930	48838	214946	545861	2346554	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	5682 3389025	26141	117941	299865	1268542	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4401 2663401	20011	88009	226767	990217	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	7101 4161018	32110	142588	368302	1561340	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	2011 1285099	10132	43582	110767	475456	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	7449 4319691	34320	149451	386379	1634374	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	10003 6963830	52373	234499	604297	2594673	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	3790 2524491	19888	80880	207413	914505	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	2481 1637292	11095	46754	120501	565141	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Ave	17824 11396490	86076	403055	1036812	4358252	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	5724 3250676	26635	114264	285875	1231290	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4150 2360354	18228	81714	199535	886776	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	19452 12091924	96790	433409	1109900	4624829	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	1143 735701	6561	25010	64414	277760	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1042 550467	4112	18515	45136	203418	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	14273 8468683	66796	296512	761014	3183461	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	18573 10765115	88524	393601	1006783	4093676	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	15055 9964542	74216	345257	882629	3796493	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	11370 7275181	55500	248210	633538	2717604	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	4209 2894862	21560	95827	244299	1072625	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Ave	12651 8734687	60051	288890	764303	3286057	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	16072 10176278	80171	359787	914193	3894089	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Ave	19633 12624955	92066	443178	1151652	4867383	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Ave	18764 11570143	87428	414905	1068622	4491019	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	11150 5842995	50640	224210	554819	2270831	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	11661 5870913	52879	221000	548468	2272564	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	7998 4948561	41138	173003	427347	1862889	1.00 500	5.00	20.0	50.0	200
Indan	DCBd 4	Ave	17858 10530920	88467	385458	969203	4044900	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	10840 6303088	54541	253230	622855	2422045	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Ave	8371 5376664	42111	196798	500935	2078634	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	10970 6064086	51461	224089	560102	2339789	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	18431 11374803	92156	414331	1072321	4456946	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	924 483065	4043	15652	38675	178584	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	9977 5298224	49404	209633	516732	2066725	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	9587 4989907	46843	197711	490747	1991589	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Ave	4351 2703860	20299	96713	248504	1033478	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	19802 10757429	96788	408897	1007107	4222543	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	9242 4868780	44125	193378	471447	1932351	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	173508 206030	183321	183890	178148	188726	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152658 218675	156287	160739	165511	186761	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159285-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	560673 740216	571588	600096	618788	662068	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	227666 290767	236717	250725	246914	262659	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jul-2018 01:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074947-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:17 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:54:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.578	1.608	-0.030	1	2261	1.00	0.9568	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	76	3690	1.00	0.7500	a
3 Chloromethane	50	1.809	1.822	-0.013	96	4148	1.00	1.03	
4 Vinyl chloride	62	1.907	1.913	-0.006	93	3837	1.00	0.9236	
5 Butadiene	54	1.901	1.919	-0.018	58	2736	1.00	0.8282	
6 Bromomethane	94	2.206	2.218	-0.012	82	4060	1.00	1.07	
7 Chloroethane	64	2.273	2.273	0.000	78	1976	1.00	0.8815	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	60	5748	1.00	0.8736	a
9 Dichlorofluoromethane	67	2.449	2.462	-0.013	71	5281	1.00	0.8462	
10 Pentane	72	2.498	2.504	-0.006	95	1055	2.00	2.38	
11 Ethyl ether	59	2.699	2.699	0.000	92	2194	1.00	1.14	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	2017	1.00	0.9790	
14 1,2-Dichloro-1,1,2-trifluo	117	2.730	2.748	-0.018	76	2960	1.00	0.9134	
12 Ethanol	46	2.742	2.754	-0.012	22	296	40.0	25.1	Ma
15 Acrolein	56	2.882	2.882	0.000	97	31536	100.0	103.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	82	3792	1.00	1.19	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	31	3243	1.00	0.9268	a
18 Acetone	43	3.004	3.004	0.000	63	4442	5.00	6.12	
19 Iodomethane	142	3.077	3.083	-0.006	96	8384	1.00	1.09	
22 Isopropyl alcohol	45	3.096	3.108	-0.012	29	1506	10.0	7.64	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	11556	1.00	1.12	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	80	1791	1.00	0.9681	
23 Methyl acetate	43	3.260	3.254	0.006	88	3337	2.00	2.25	a
24 Cyclopentene	67	3.266	3.266	0.000	84	6118	1.00	0.9856	
29 Acetonitrile	41	3.303	3.321	-0.018	20	4764	10.0	12.9	a
26 Methylene Chloride	84	3.376	3.370	0.006	32	4439	1.00	1.24	
* 25 TBA-d9 (IS)	65	3.358	3.376	-0.018	0	287173	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.443	3.437	0.006	91	4904	10.0	11.5	
28 Methyl tert-butyl ether	73	3.516	3.529	-0.012	94	10165	1.00	1.12	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	85	3732	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.638	-0.012	96	8398	10.0	10.1	
32 Hexane	43	3.718	3.717	0.001	86	2208	1.00	1.13	
33 Isopropyl ether	45	3.925	3.925	0.000	84	7862	1.00	1.08	
35 Vinyl acetate	86	3.967	3.974	-0.007	98	1269	2.00	2.28	
34 1,1-Dichloroethane	63	3.961	3.974	-0.013	84	5708	1.00	1.13	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	90	2752	1.00	0.9804	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	88	9542	1.00	1.12	
* 38 2-Butanone-d5	46	4.443	4.449	-0.006	0	177776	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	48	1621	1.00	1.01	a
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	81	4809	1.00	1.18	
42 2-Butanone (MEK)	72	4.498	4.504	-0.006	97	2116	5.00	6.39	
41 Ethyl acetate	70	4.486	4.504	-0.018	84	967	2.00	2.06	
44 Methyl acrylate	55	4.565	4.559	0.006	53	2012	1.00	1.00	
43 Propionitrile	54	4.644	4.644	0.000	96	4224	10.0	11.8	
45 Tetrahydrofuran	72	4.717	4.723	-0.006	53	889	2.00	2.34	a
46 Chlorobromomethane	128	4.736	4.729	0.007	75	2593	1.00	1.13	
47 Methacrylonitrile	67	4.742	4.748	-0.006	87	10612	10.0	10.2	
48 Chloroform	83	4.778	4.778	0.000	97	7036	1.00	1.14	
49 Cyclohexane	84	4.919	4.925	-0.006	87	4081	1.00	0.9025	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	6119	1.00	1.04	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	173508	50.0	51.4	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	96	5307	1.00	1.01	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	93	4664	1.00	1.11	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	27	495	25.0	30.3	Ma
54 Benzene	78	5.284	5.284	0.000	45	13254	1.00	1.11	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	152658	50.0	48.7	
57 Isopropyl acetate	43	5.327	5.321	0.006	79	8021	1.00	1.03	a
58 Tert-amyl methyl ether	87	5.339	5.327	0.012	87	3302	1.00	1.08	a
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	93	5456	1.00	1.24	
60 n-Heptane	57	5.418	5.424	-0.006	84	2404	1.00	1.06	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	490226	50.0	50.0	
62 n-Butanol	56	5.870	5.857	0.013	40	2412	25.0	27.7	a
63 Trichloroethene	95	5.931	5.930	0.000	97	3357	1.00	0.9645	
65 Methylcyclohexane	83	6.052	6.058	-0.006	89	5200	1.00	0.9092	
64 Ethyl acrylate	56	6.059	6.065	-0.006	95	2274	1.00	1.29	a
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	72	2926	1.00	1.10	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	25324	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	81	2815	2.00	1.70	
70 n-Propyl acetate	43	6.327	6.327	0.000	52	3305	1.00	1.09	
69 1,4-Dioxane	88	6.333	6.327	0.006	30	832	20.0	22.1	M
71 Dibromomethane	93	6.351	6.351	0.000	89	2626	1.00	1.16	
72 Dichlorobromomethane	83	6.497	6.504	-0.007	96	4671	1.00	1.07	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	72	1451	1.00	1.02	
74 2-Nitropropane	41	6.839	6.833	0.006	81	1443	2.00	2.59	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	4778	20.0	20.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	5105	1.00	1.12	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	11544	5.00	5.31	
$ 78 Toluene-d8 (Surr)	98	7.247	7.253	-0.006	99	560673	50.0	51.1	
79 Toluene	91	7.327	7.333	-0.006	90	15703	1.00	1.14	
80 trans-1,3-Dichloropropene	75	7.674	7.680	-0.006	94	4645	1.00	1.13	
81 Ethyl methacrylate	69	7.692	7.692	0.000	81	3621	1.00	1.10	
82 1,1,2-Trichloroethane	83	7.906	7.894	0.012	90	2211	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.948	7.954	-0.006	94	5067	1.00	1.11	
84 1,3-Dichloropropane	76	8.107	8.113	-0.006	91	4509	1.00	1.16	
85 2-Hexanone	43	8.156	8.156	0.000	95	7485	5.00	5.38	
86 n-Butyl acetate	43	8.265	8.265	0.000	95	3672	1.00	1.16	
87 Chlorodibromomethane	129	8.351	8.345	0.006	95	3310	1.00	0.9861	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	3165	1.00	1.06	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	82	413487	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	94	10552	1.00	1.08	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	5682	1.00	1.08	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	4401	1.00	1.09	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	7101	1.00	1.10	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	2011	1.00	1.03	
95 o-Xylene	106	9.802	9.802	0.000	93	7449	1.00	1.10	
96 Styrene	104	9.832	9.832	0.000	95	10003	1.00	0.9619	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	3790	1.00	0.9746	
98 Bromoform	173	10.070	10.070	0.000	92	2481	1.00	1.09	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	17824	1.00	1.01	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	227666	50.0	51.3	
101 Bromobenzene	156	10.545	10.545	0.000	82	5724	1.00	1.07	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	95	4150	1.00	1.09	
103 N-Propylbenzene	91	10.613	10.612	0.001	99	19452	1.00	0.9830	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	93	1143	1.00	0.9559	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.649	0.012	63	1042	1.00	1.18	
106 2-Chlorotoluene	91	10.728	10.728	0.000	93	14273	1.00	1.04	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	18573	1.00	1.03	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	96	15055	1.00	0.9549	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	94	11370	1.00	0.9876	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	4209	1.00	0.9440	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	12651	1.00	0.9438	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	16072	1.00	0.9761	
113 sec-Butylbenzene	105	11.289	11.295	-0.006	99	19633	1.00	0.9721	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	18764	1.00	0.99	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	11150	1.00	1.10	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	274690	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.521	11.527	-0.006	94	11661	1.00	1.13	
118 Benzyl chloride	91	11.655	11.655	0.000	99	7998	1.00	1.00	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	17858	1.00	1.01	
120 p-Diethylbenzene	119	11.759	11.759	0.000	95	10840	1.00	0.99	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	8371	1.00	0.9519	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	10970	1.00	1.07	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	18431	1.00	0.9757	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	82	924	1.00	1.18	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	96	9977	1.00	1.06	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	9587	1.00	1.07	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	4351	1.00	0.99	
128 Naphthalene	128	13.319	13.319	0.000	99	19802	1.00	1.06	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	9242	1.00	1.07	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.26	
S 131 Xylenes, Total	100				0		2.00	2.19	
S 132 Total BTEX	1				0		5.00	5.52	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	1.00	Units: uL	
ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	1.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

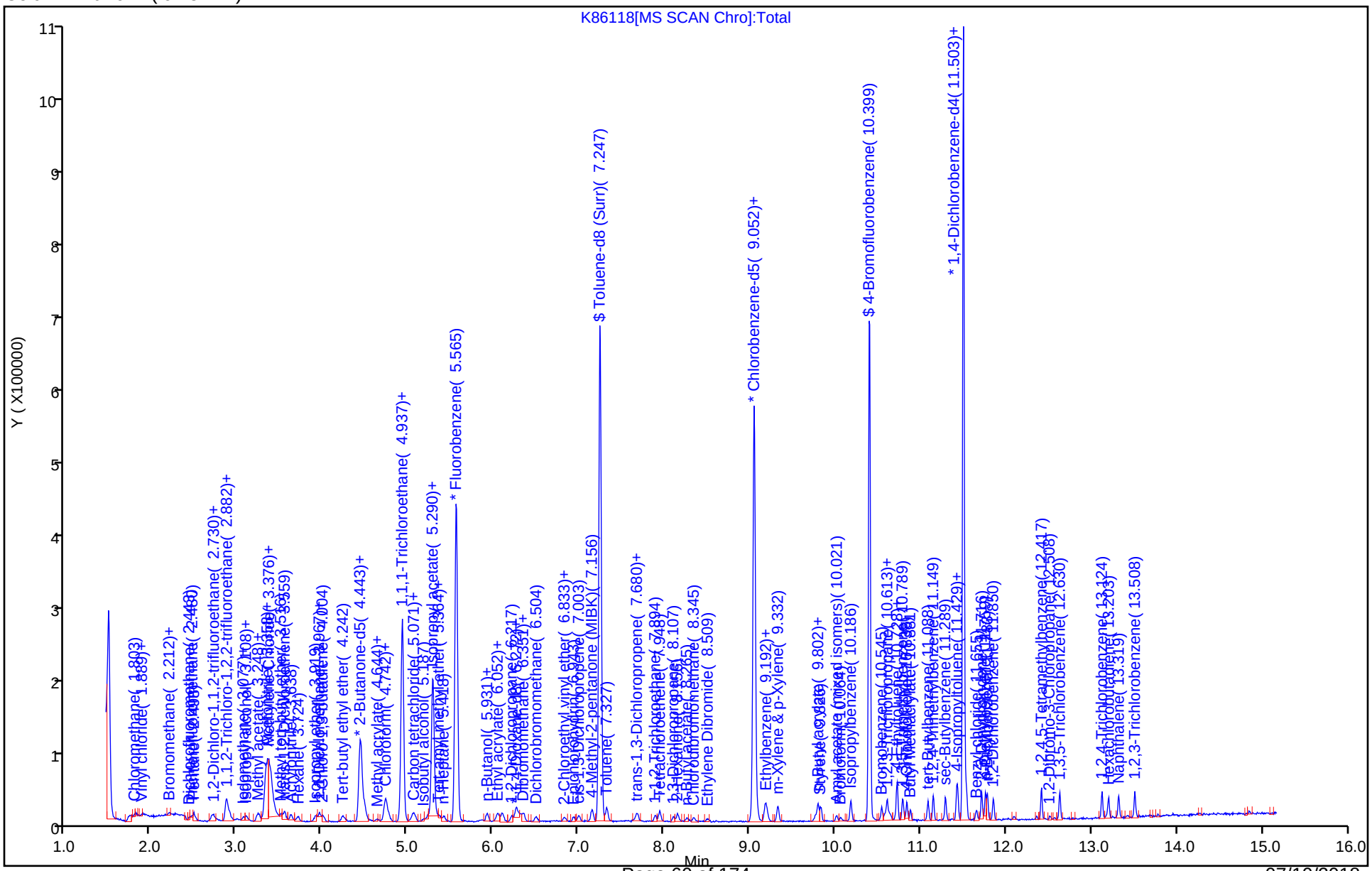
Report Date: 06-Jul-2018 18:58:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D

Injection Date:	06-Jul-2018 01:46:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

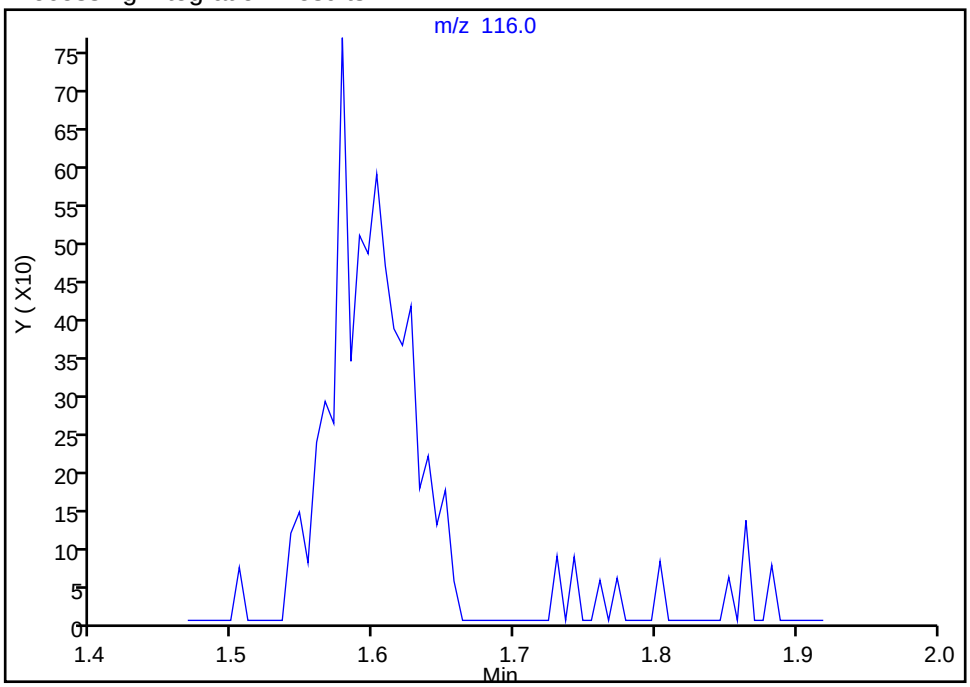
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

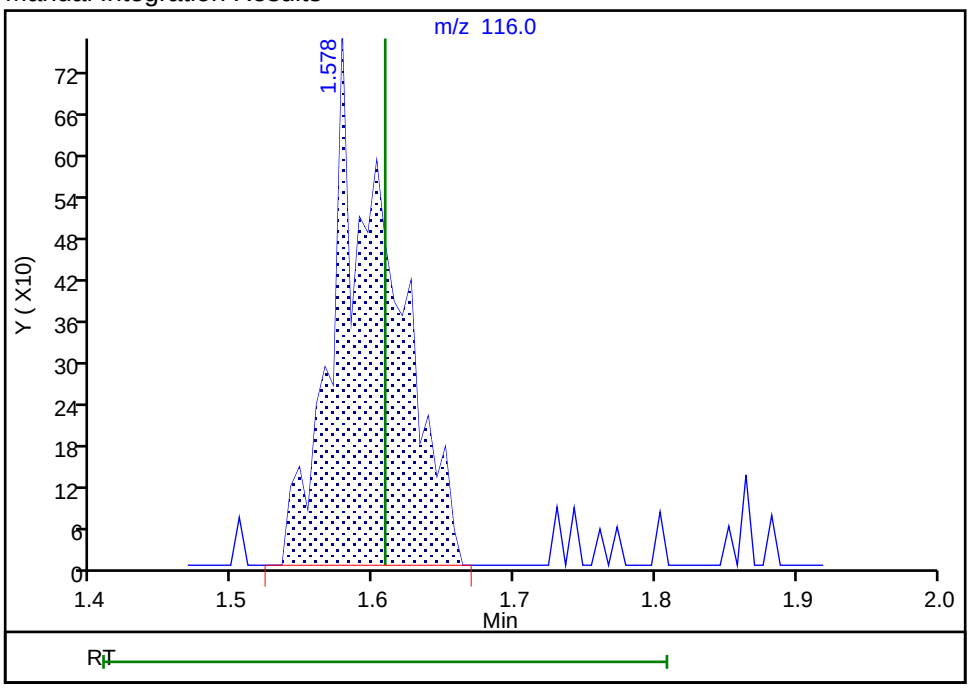
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 2261
Amount: 0.956799
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

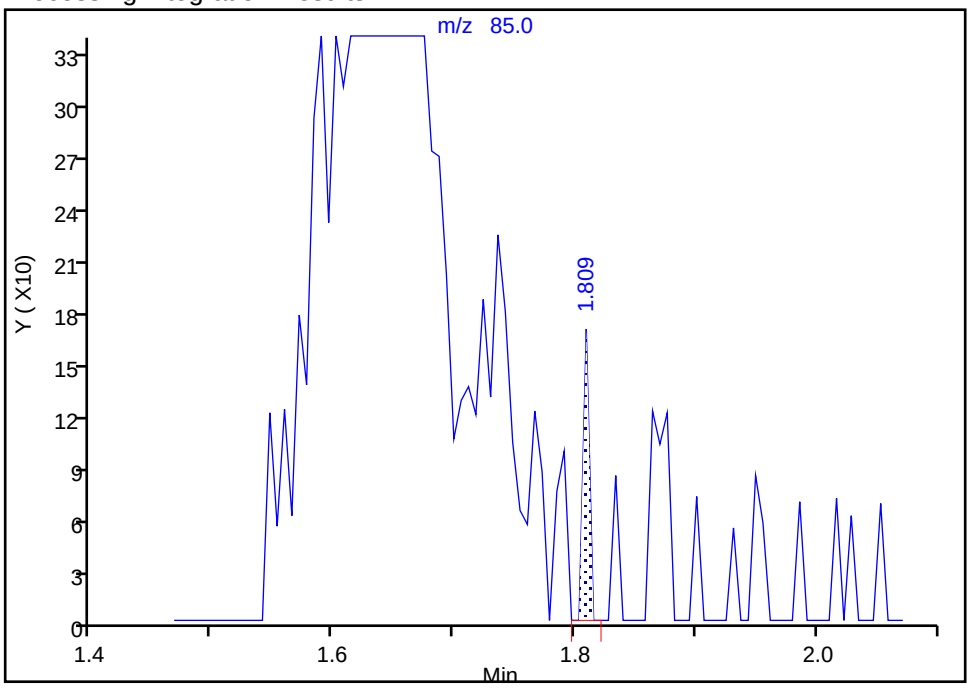
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

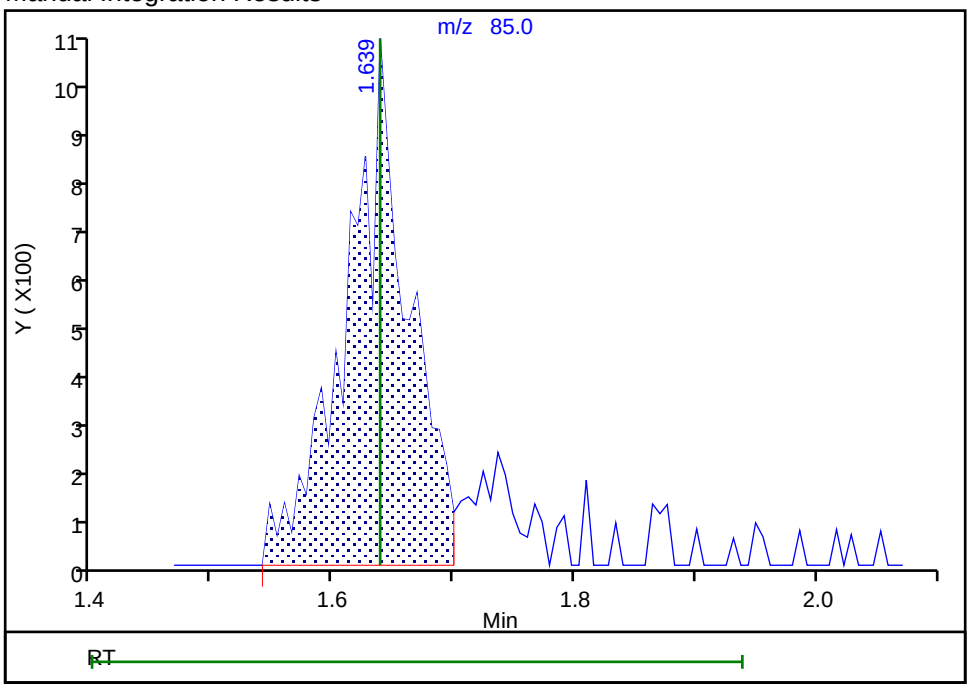
Processing Integration Results

RT: 1.81
Area: 61
Amount: 0.011841
Amount Units: ug/l



Manual Integration Results

RT: 1.64
Area: 3690
Amount: 0.750037
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

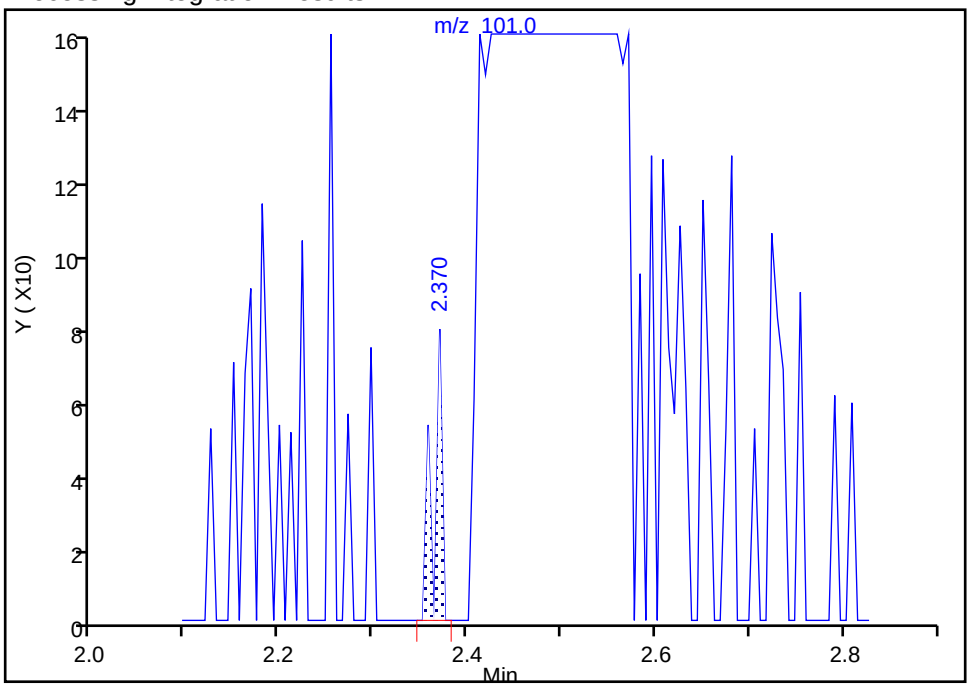
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

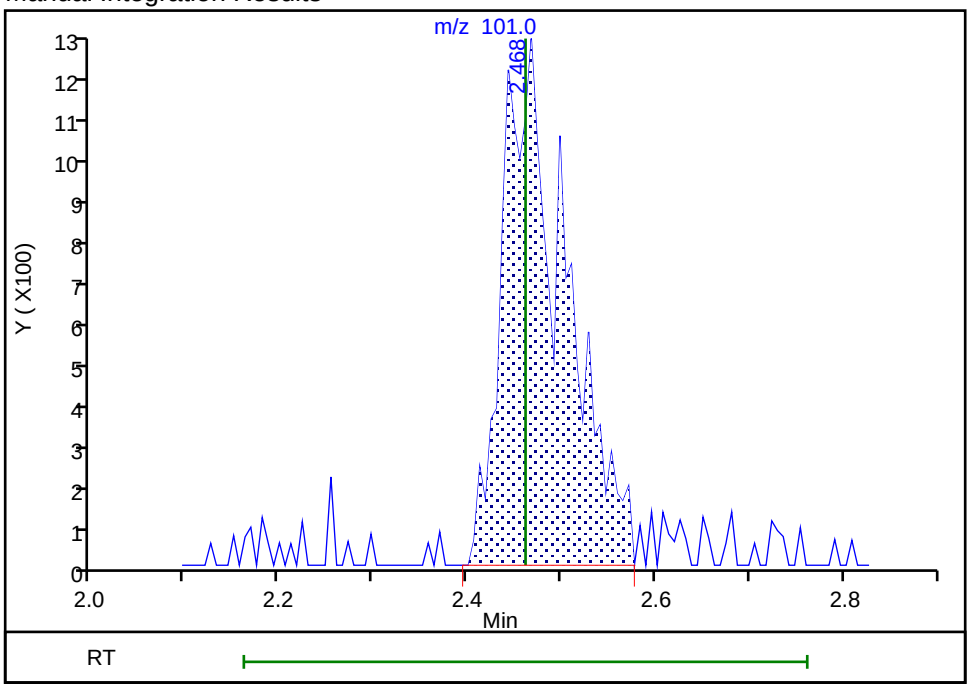
Processing Integration Results

RT: 2.37
Area: 48
Amount: 0.007026
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 5748
Amount: 0.873615
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

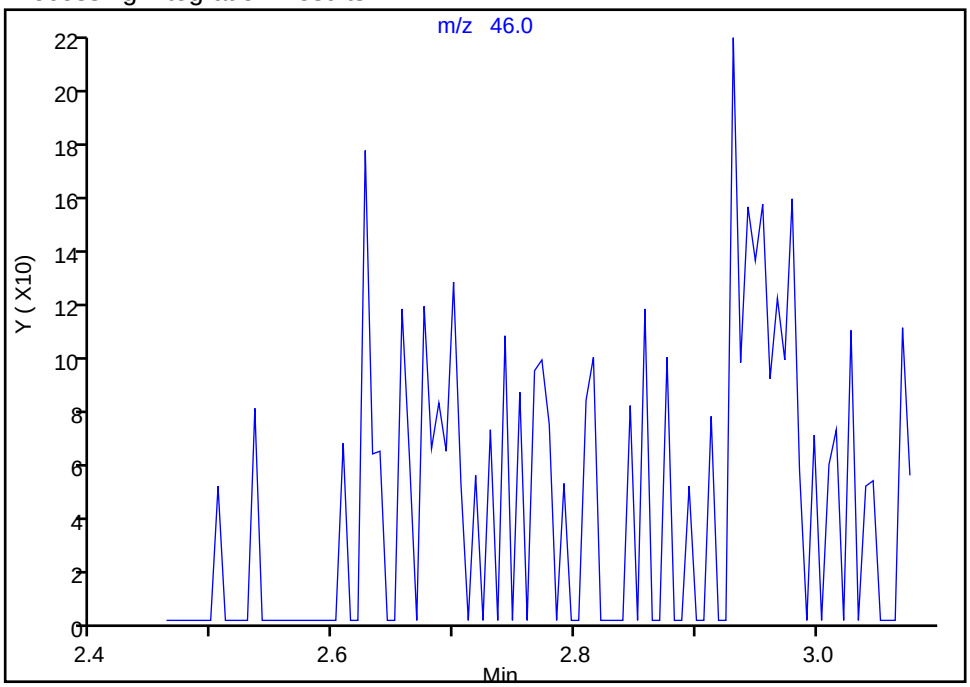
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

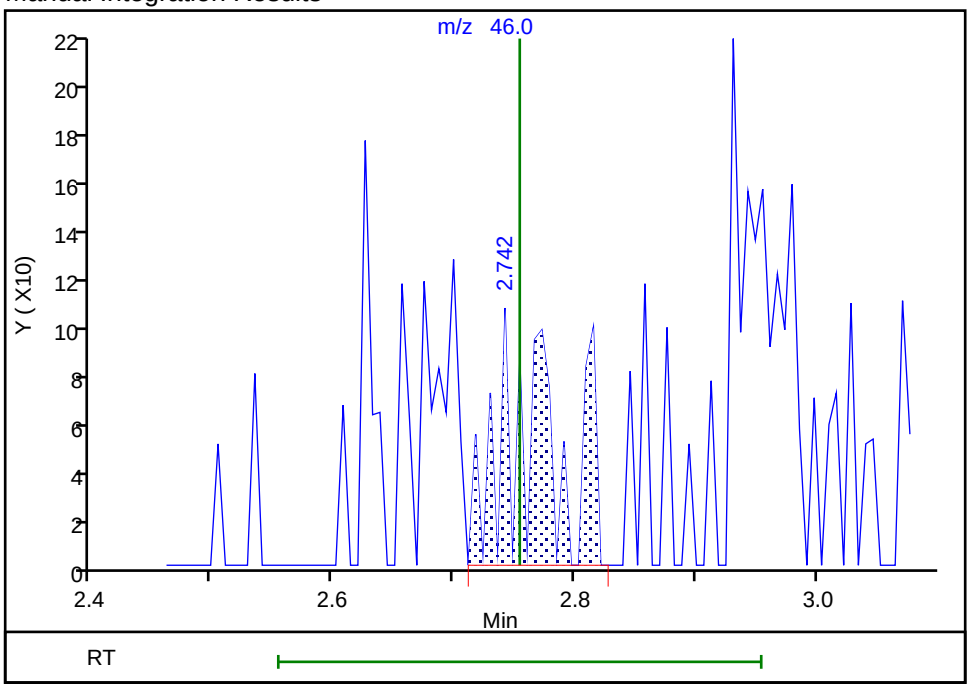
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 296
Amount: 25.125826
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

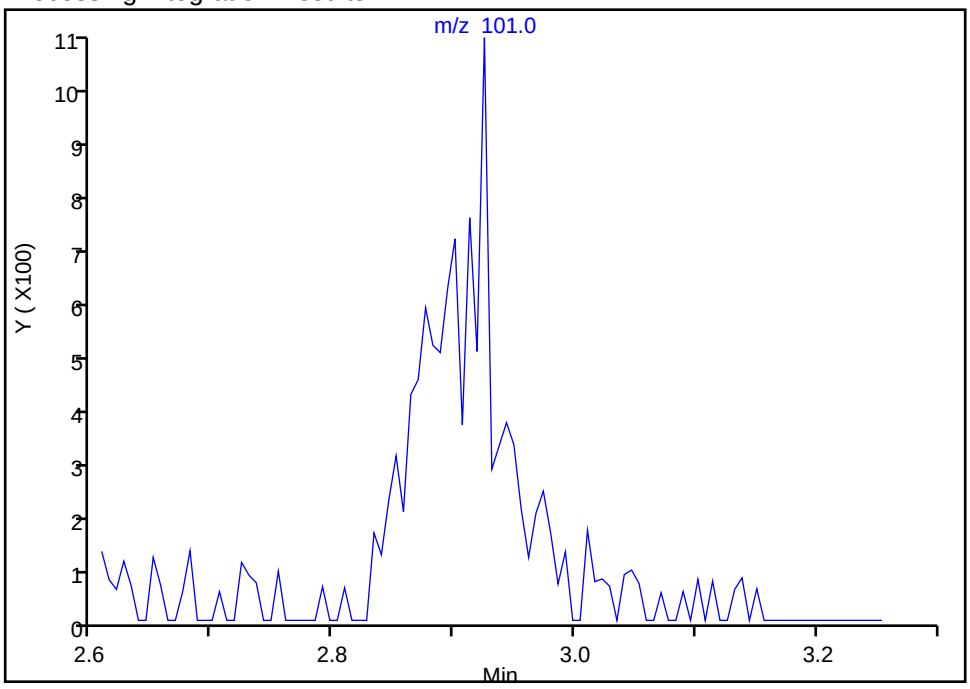
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

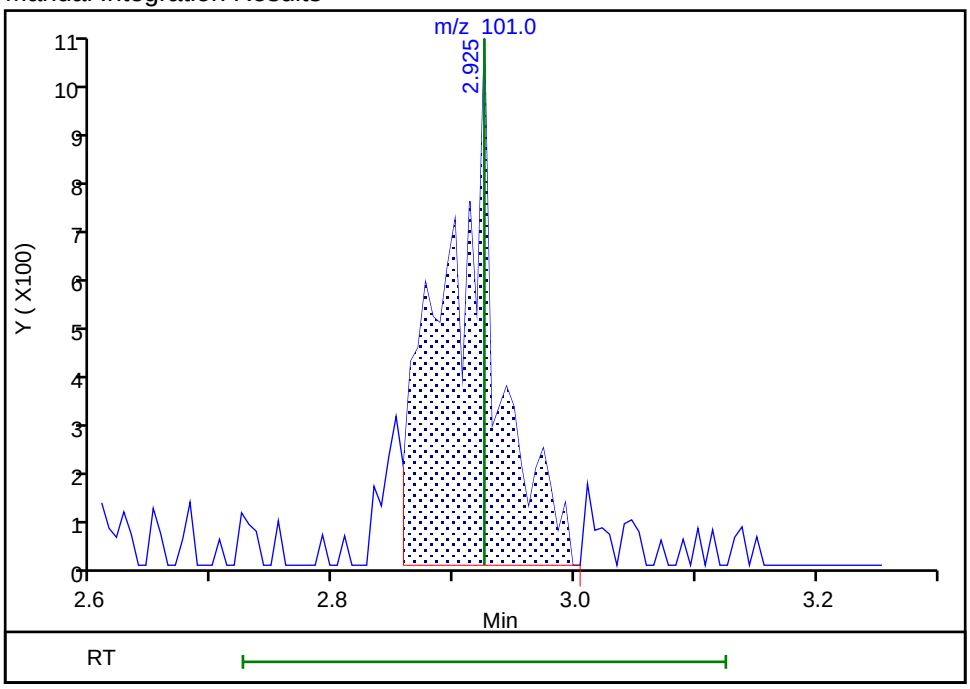
Not Detected
Expected RT: 2.92

Processing Integration Results



Manual Integration Results

RT: 2.93
Area: 3243
Amount: 0.926791
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:37
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

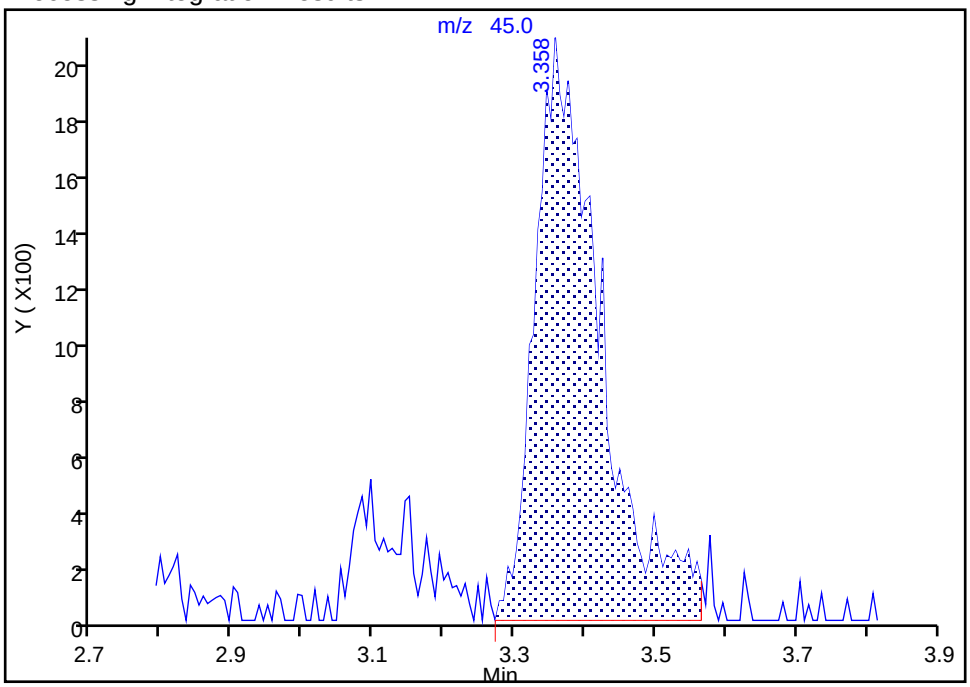
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

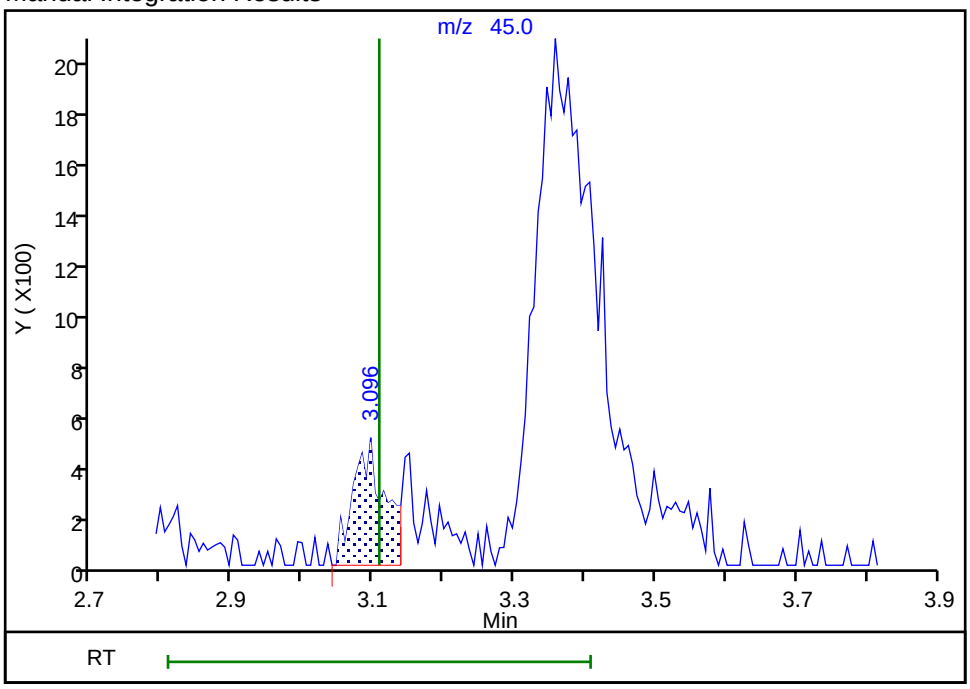
Processing Integration Results

RT: 3.36
Area: 12911
Amount: 33.520001
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 1506
Amount: 7.643810
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:58
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

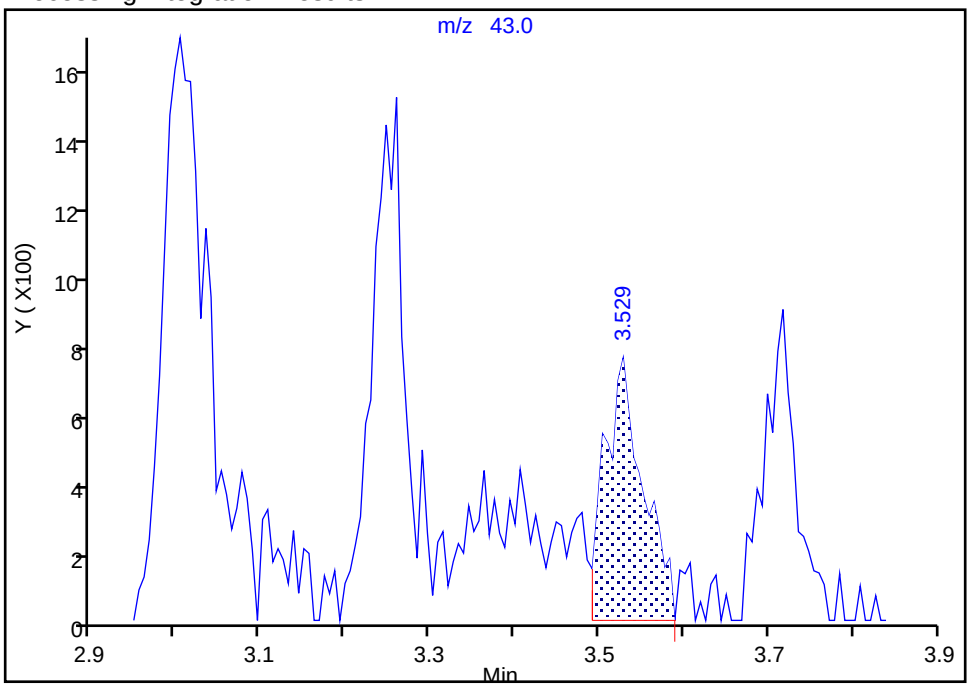
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Methyl acetate, CAS: 79-20-9

Signal: 1

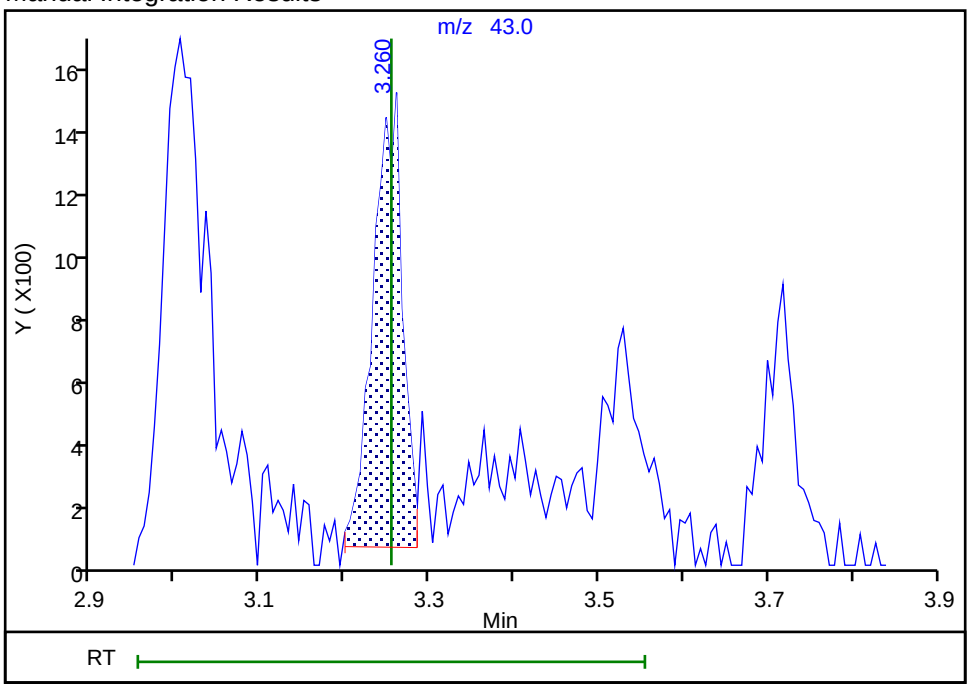
Processing Integration Results

RT: 3.53
Area: 2284
Amount: 1.712889
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 3337
Amount: 2.248775
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:25
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

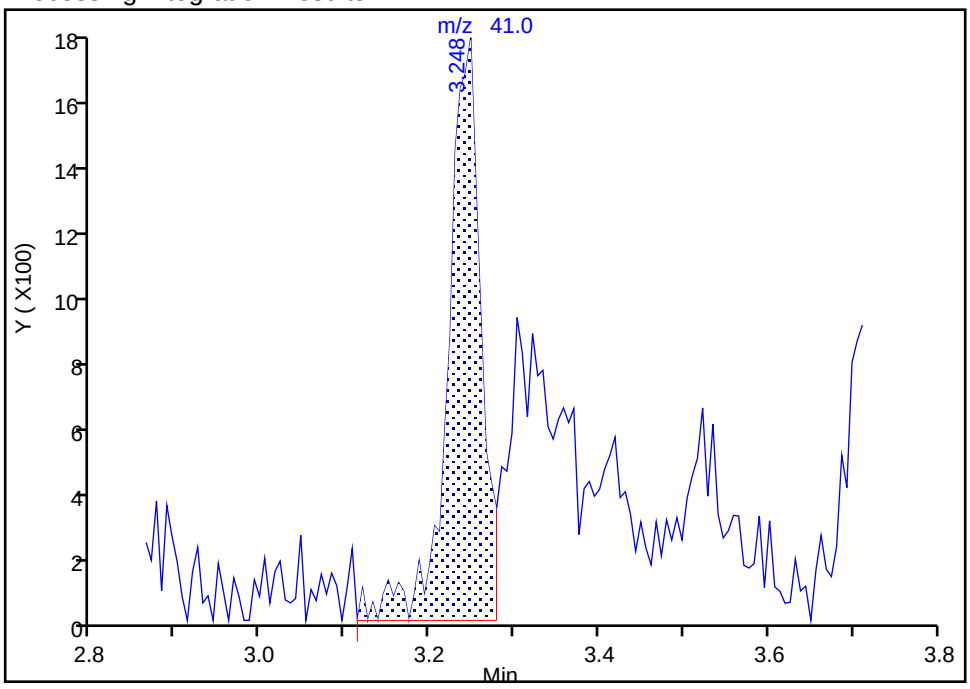
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

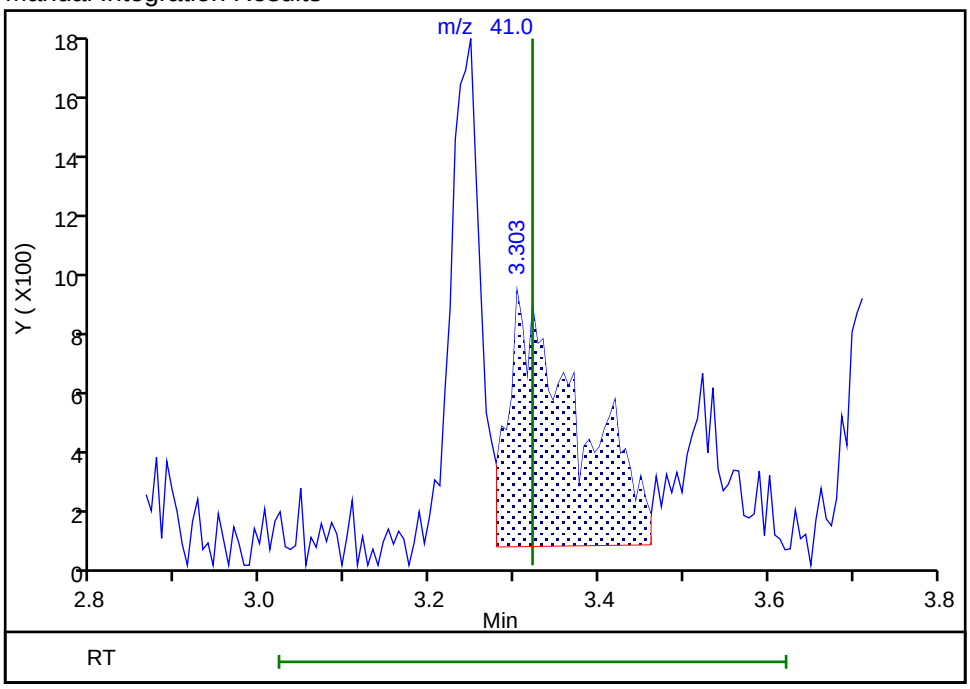
Processing Integration Results

RT: 3.25
Area: 4613
Amount: 12.146097
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 4764
Amount: 12.864889
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:34
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

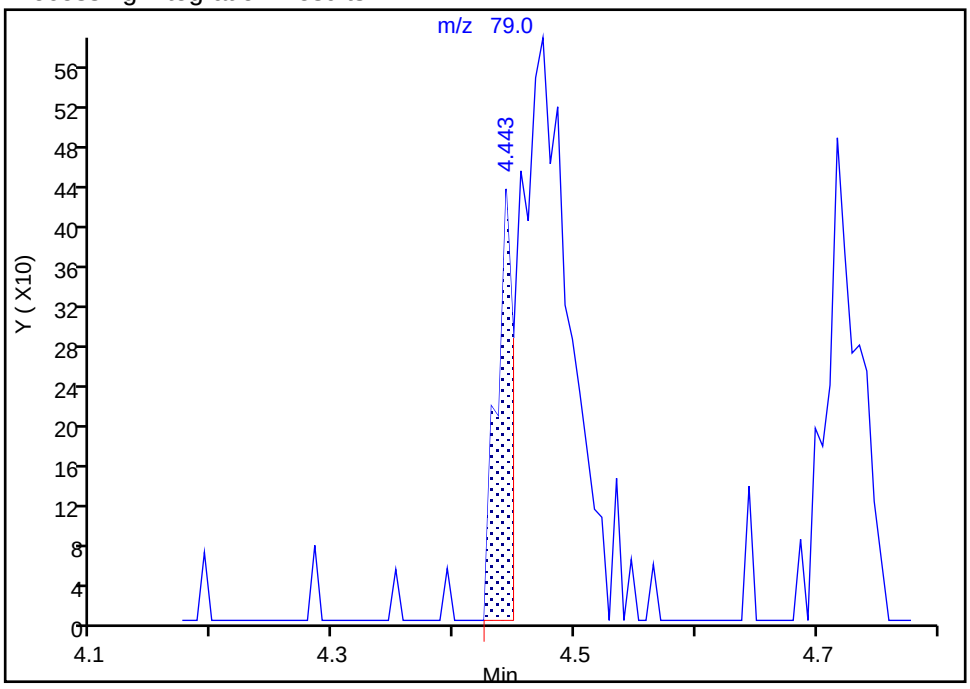
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

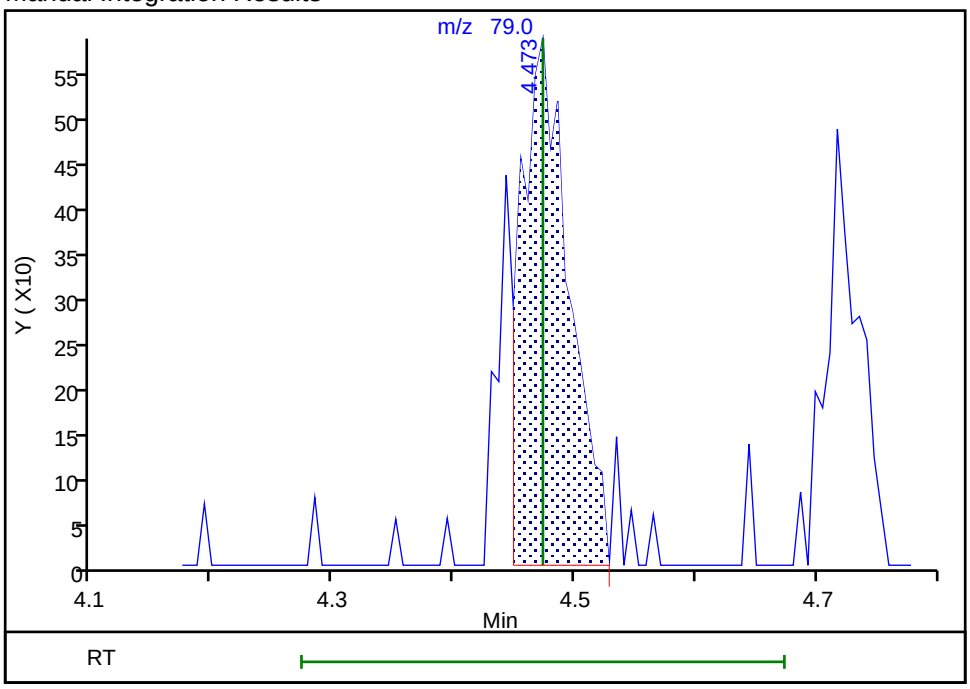
Processing Integration Results

RT: 4.44
Area: 413
Amount: 0.246925
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 1621
Amount: 1.005089
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:10
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

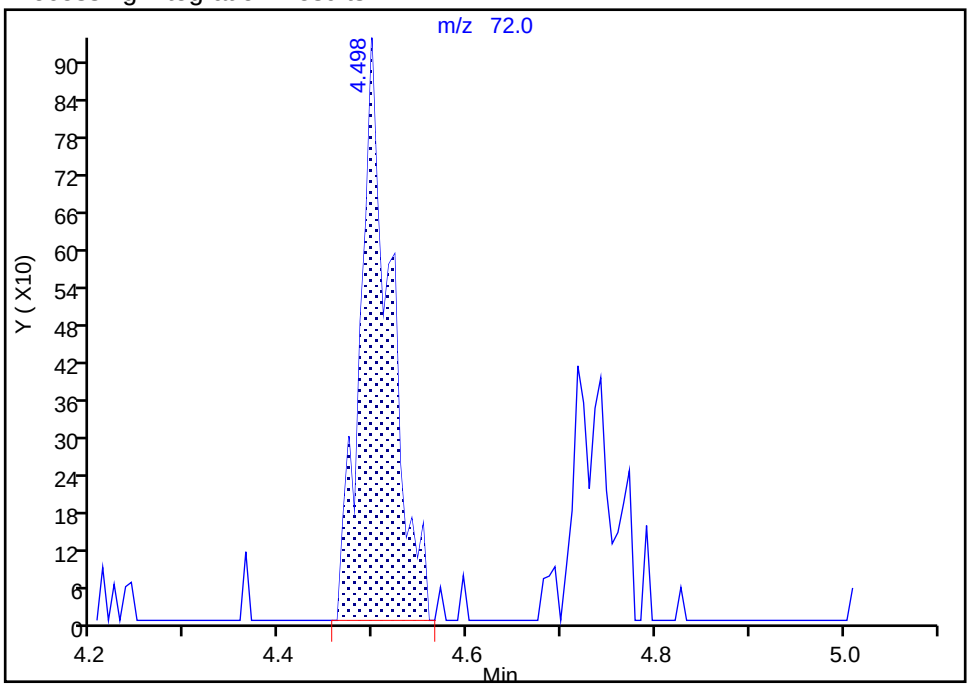
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

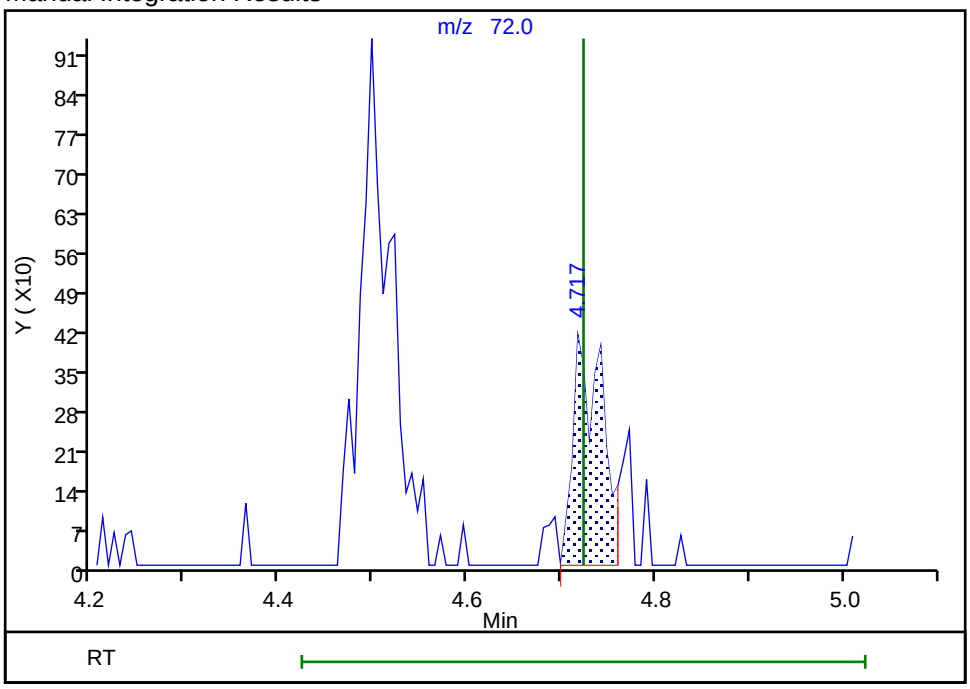
Processing Integration Results

RT: 4.50
Area: 2116
Amount: 5.826841
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 889
Amount: 2.341696
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

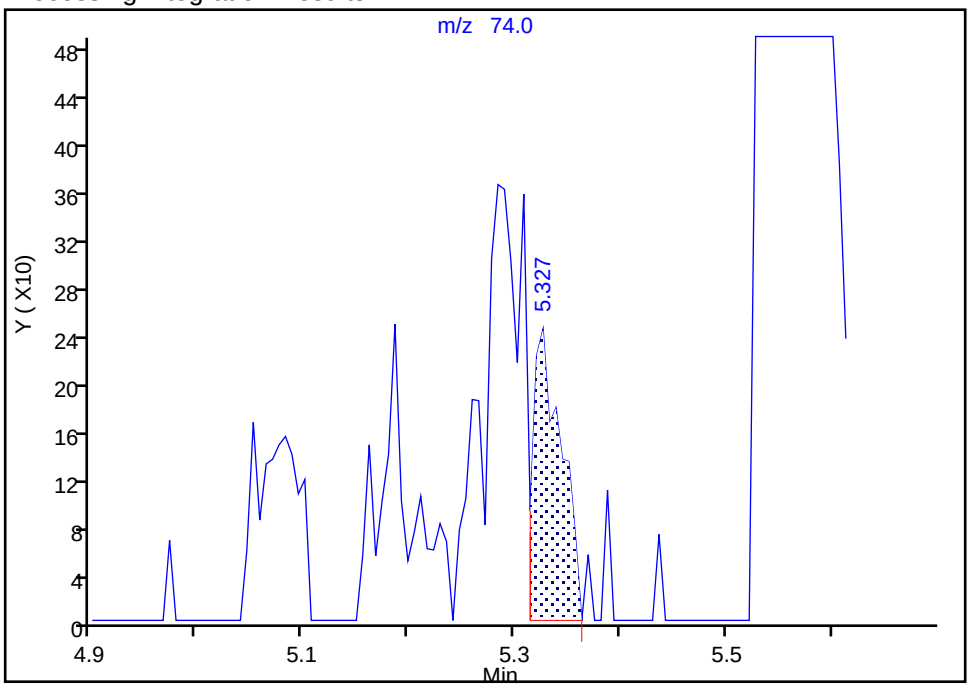
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

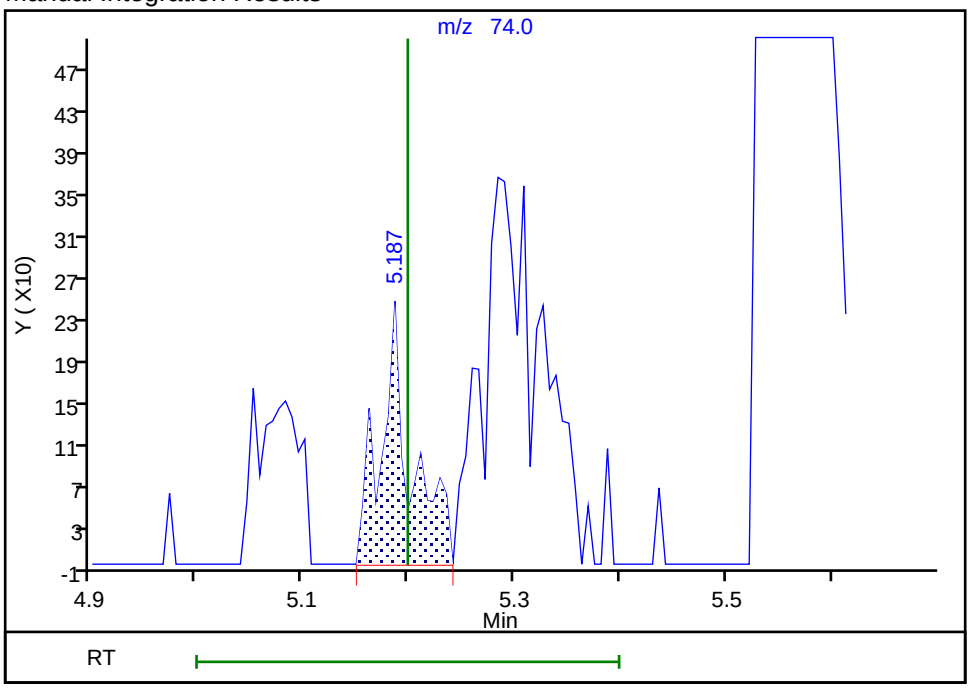
Processing Integration Results

RT: 5.33
Area: 454
Amount: 29.165044
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 495
Amount: 30.295295
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:47:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

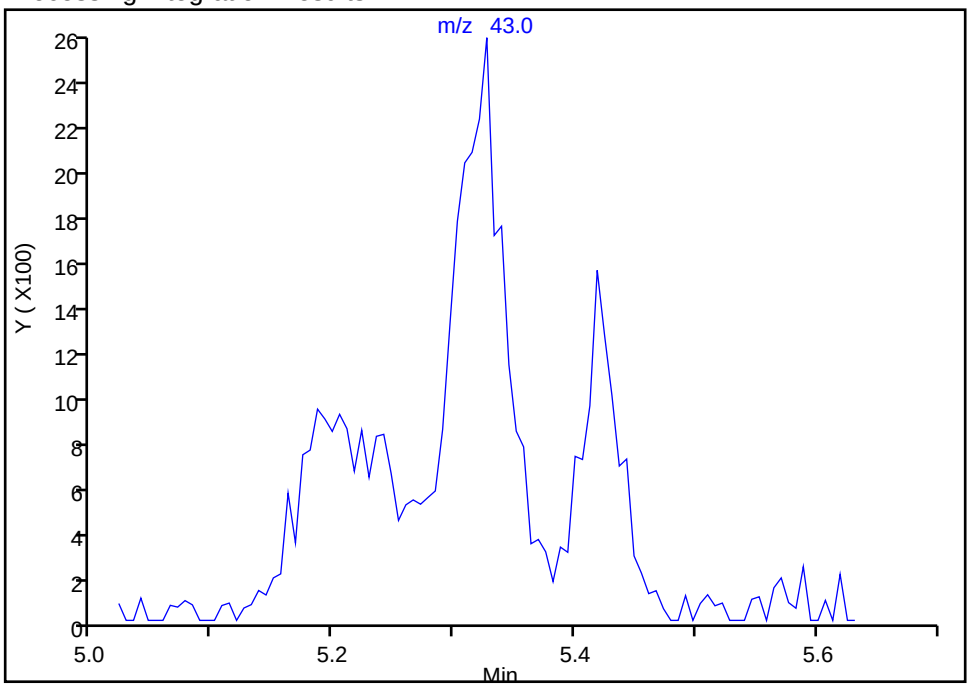
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

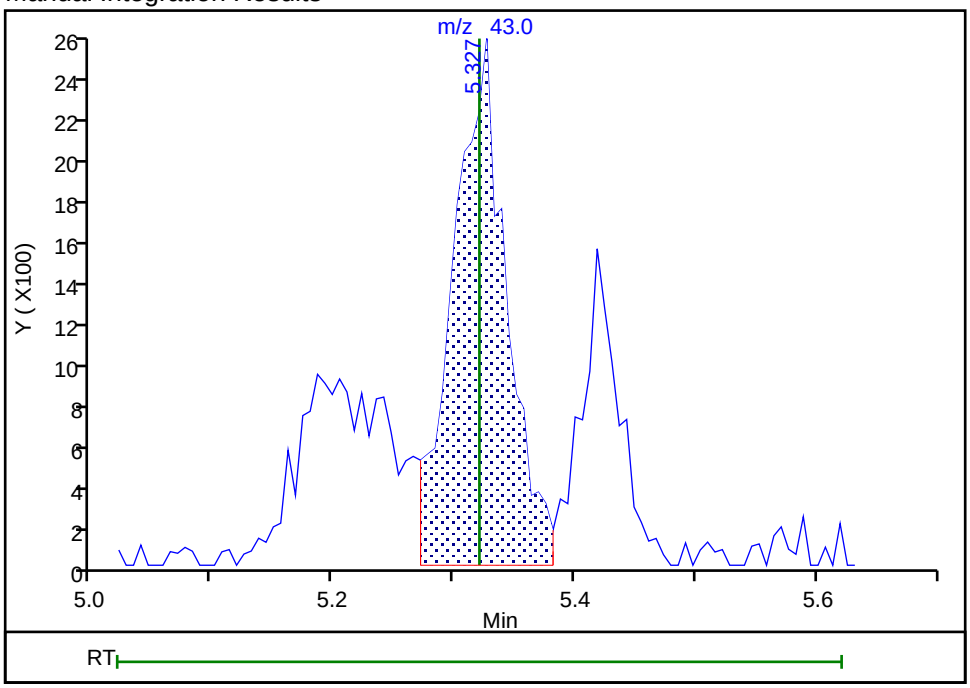
Not Detected
Expected RT: 5.32

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 8021
Amount: 1.026903
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:06
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

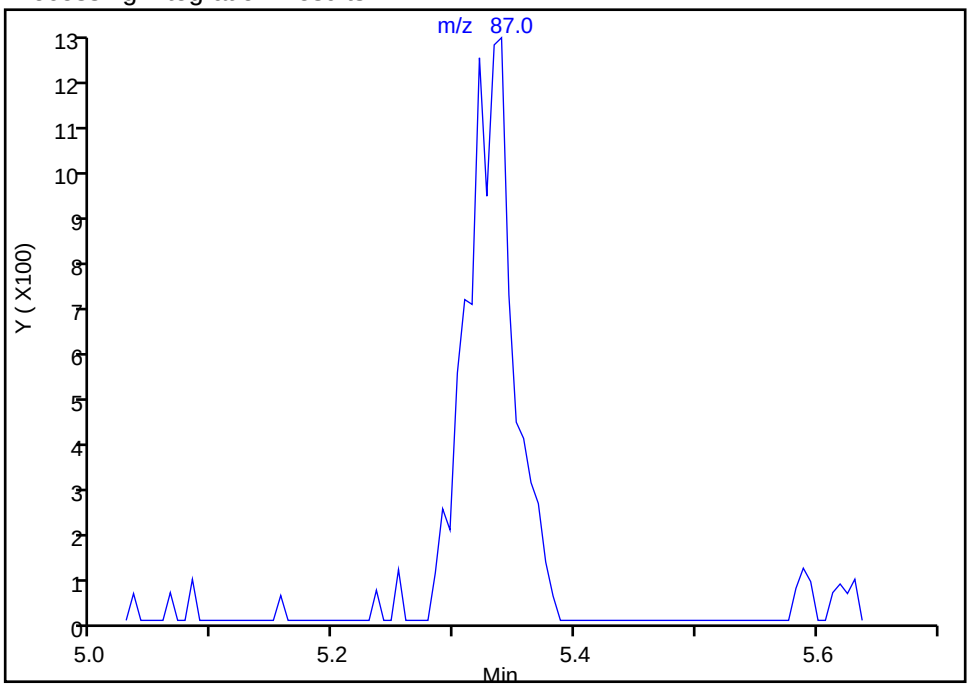
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

58 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

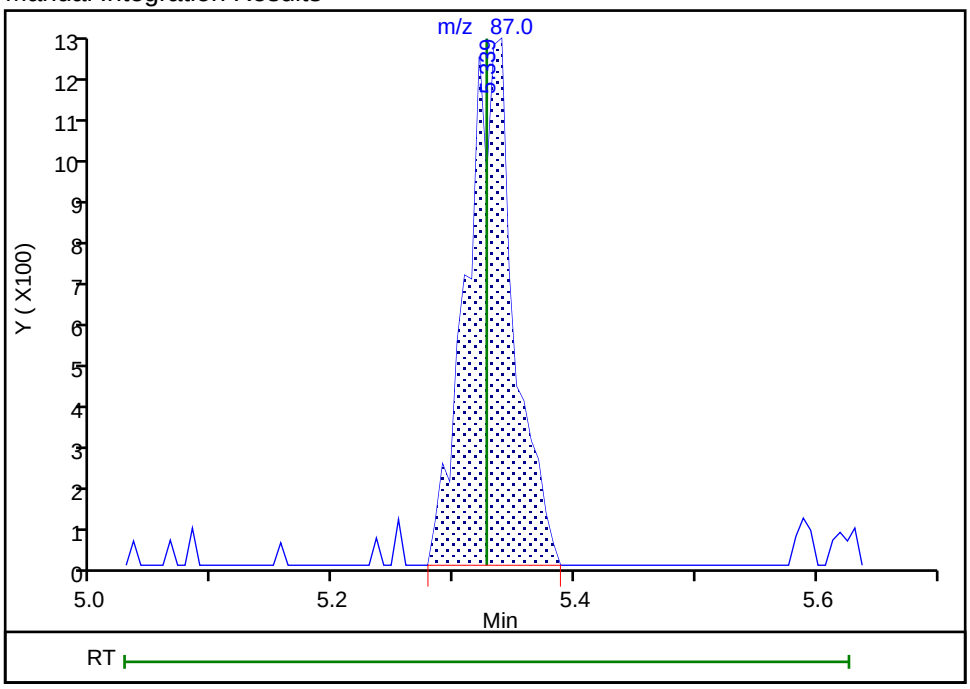
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.34
Area: 3302
Amount: 1.078015
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:11
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

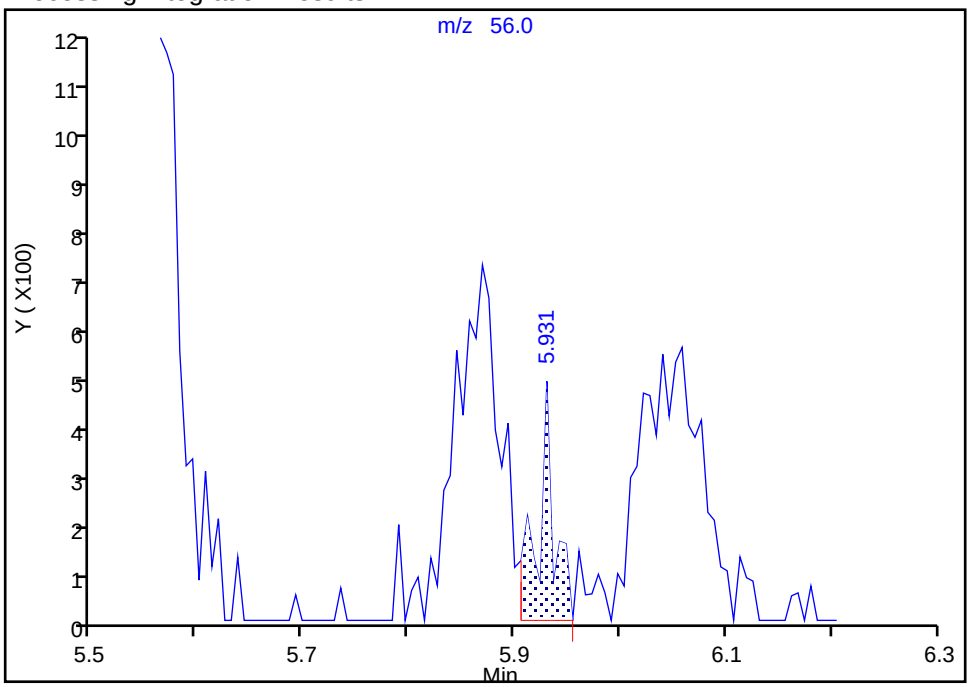
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

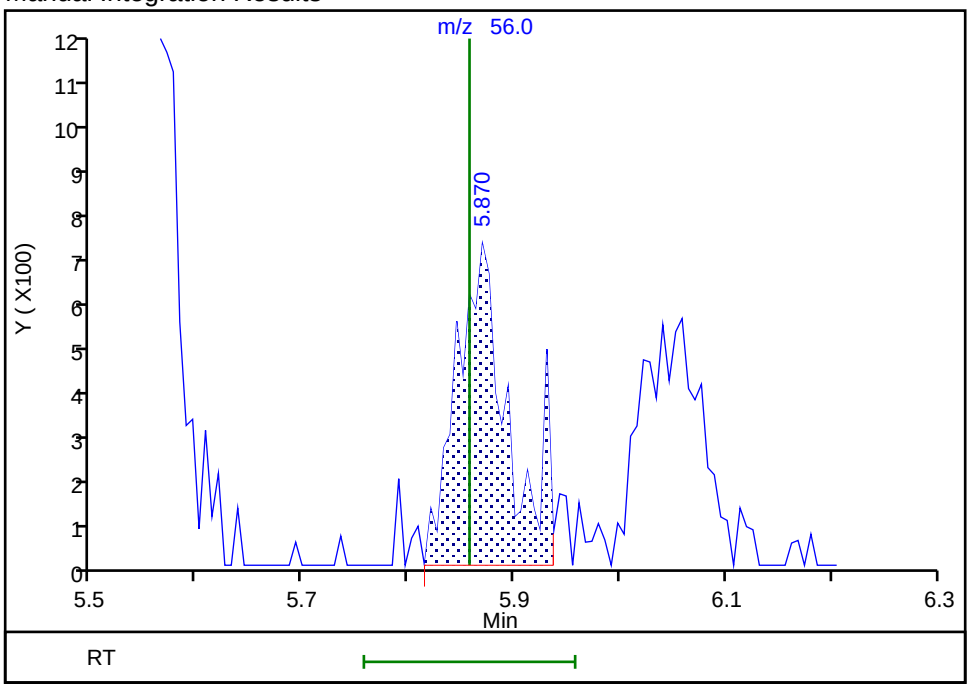
Processing Integration Results

RT: 5.93
Area: 516
Amount: 6.522027
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 2412
Amount: 27.741964
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:20
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

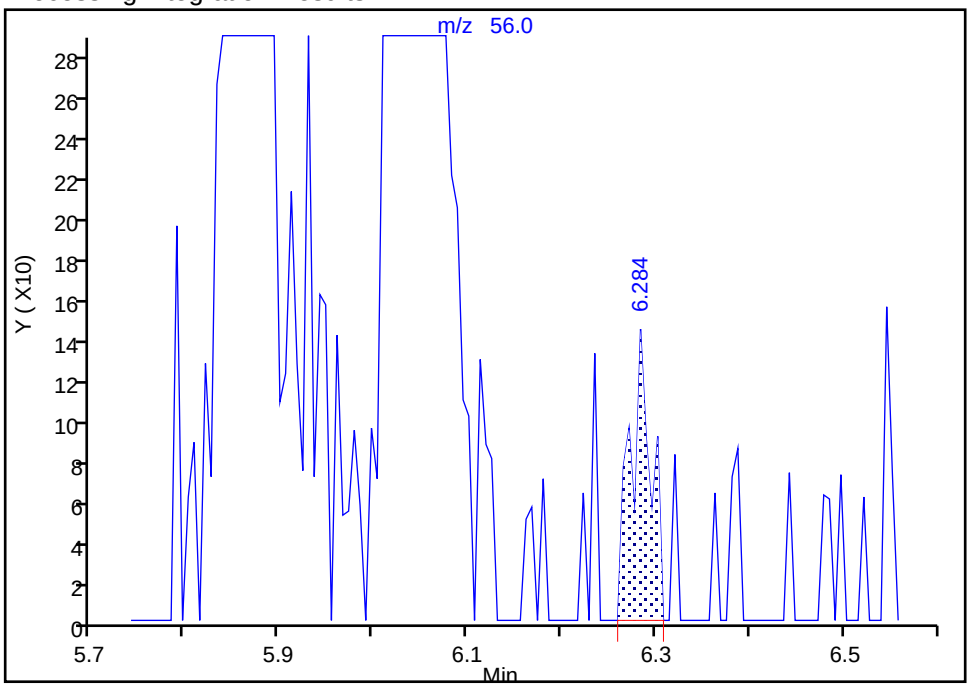
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

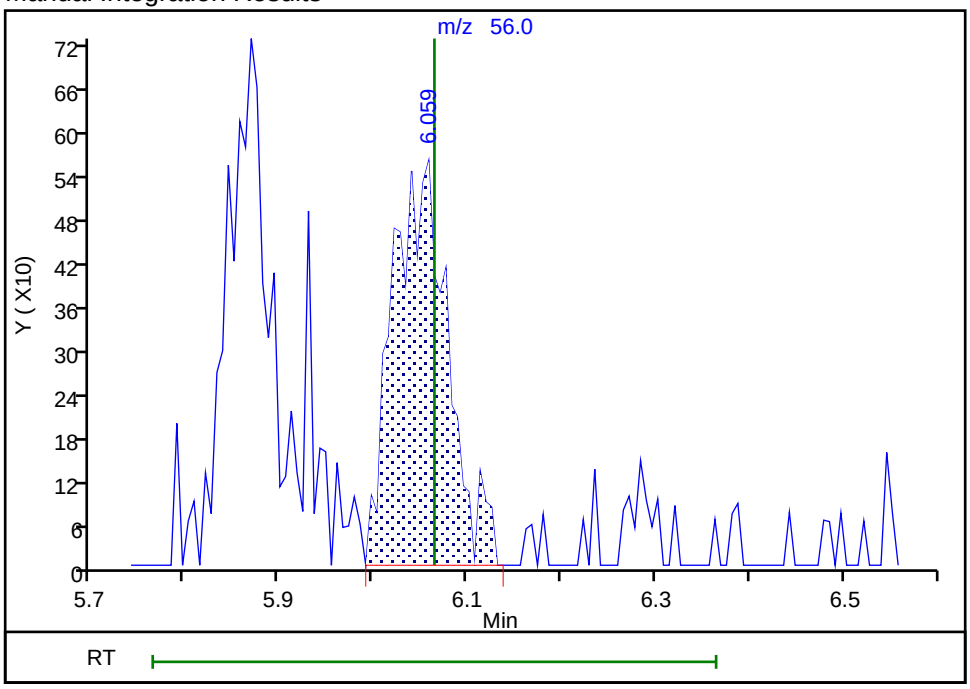
Processing Integration Results

RT: 6.28
Area: 220
Amount: 0.122740
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 2274
Amount: 1.288268
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

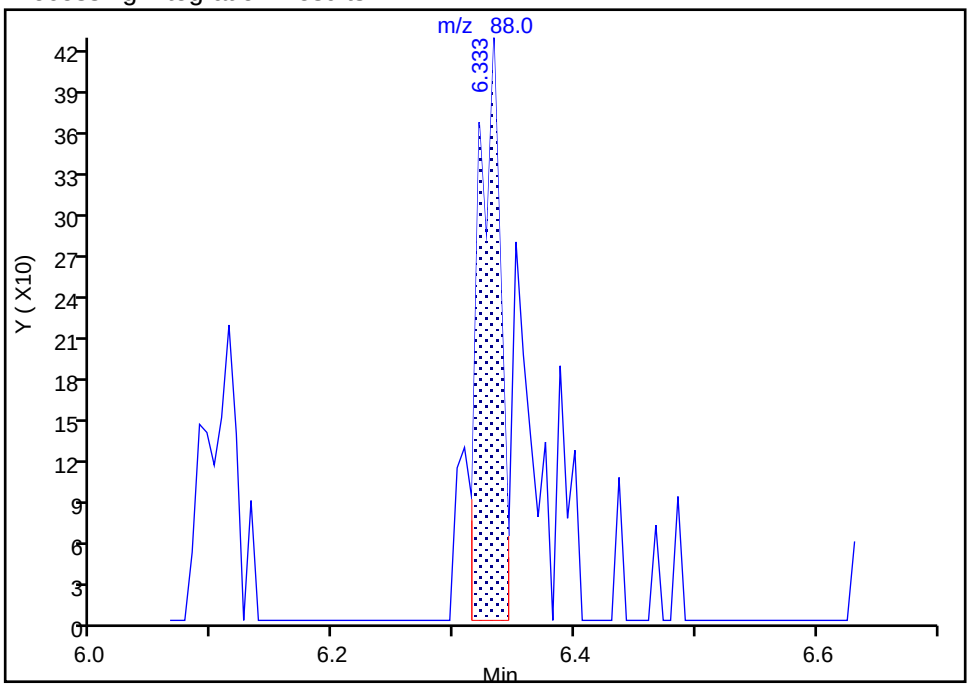
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

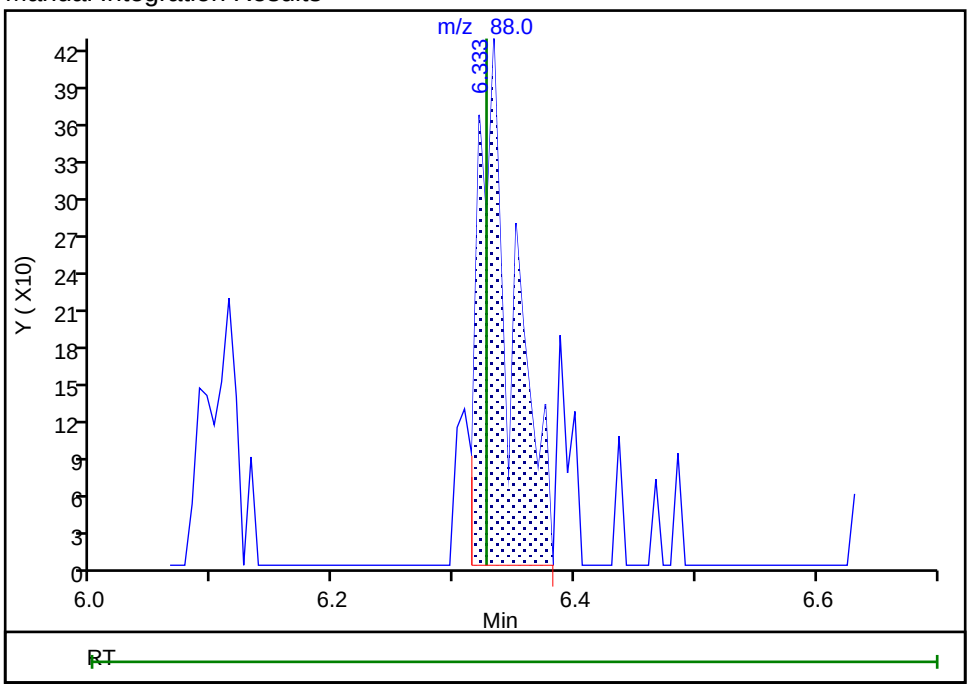
Processing Integration Results

RT: 6.33
Area: 534
Amount: 15.547954
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 832
Amount: 22.053400
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:44:34
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jul-2018 02:10:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074947-004
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:32 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:48:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	73	10049	5.00	4.08	
2 Dichlorodifluoromethane	85	1.638	1.639	-0.001	98	23410	5.00	4.57	
3 Chloromethane	50	1.815	1.822	-0.007	99	19558	5.00	4.64	
4 Vinyl chloride	62	1.907	1.913	-0.006	97	19396	5.00	4.48	a
5 Butadiene	54	1.901	1.919	-0.018	72	16478	5.00	4.79	
6 Bromomethane	94	2.211	2.218	-0.007	98	18827	5.00	4.76	
7 Chloroethane	64	2.266	2.273	-0.007	97	11373	5.00	4.87	
9 Dichlorofluoromethane	67	2.474	2.462	0.012	96	32091	5.00	4.93	
8 Trichlorofluoromethane	101	2.461	2.462	-0.001	87	32312	5.00	4.71	
10 Pentane	72	2.492	2.504	-0.012	94	4094	10.0	8.21	
11 Ethyl ether	59	2.693	2.699	-0.006	91	10146	5.00	5.08	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	9964	5.00	4.64	
14 1,2-Dichloro-1,1,2-trifluo	117	2.760	2.748	0.012	77	15471	5.00	4.58	
12 Ethanol	46	2.711	2.754	-0.043	58	2517	200.0	190.2	
15 Acrolein	56	2.882	2.882	0.000	97	67018	200.0	195.6	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	92	15305	5.00	4.61	
16 1,1,2-Trichloro-1,2,2-trif	101	2.900	2.925	-0.025	59	17230	5.00	4.72	
18 Acetone	43	3.004	3.004	0.000	84	21583	25.0	27.2	
19 Iodomethane	142	3.077	3.083	-0.006	99	37031	5.00	4.63	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	11986	50.0	54.2	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	47954	5.00	4.46	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	78	9229	5.00	4.79	
23 Methyl acetate	43	3.248	3.254	-0.006	88	15964	10.0	9.58	
24 Cyclopentene	67	3.266	3.266	0.000	90	28347	5.00	4.38	
29 Acetonitrile	41	3.321	3.321	0.000	42	20495	50.0	49.3	a
26 Methylene Chloride	84	3.376	3.370	0.006	60	18594	5.00	4.98	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	322534	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	95	25375	50.0	53.0	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	94	46271	5.00	4.88	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	86	17585	5.00	4.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	96	44073	50.0	50.7	
32 Hexane	43	3.711	3.717	-0.006	92	8126	5.00	4.00	
33 Isopropyl ether	45	3.925	3.925	0.000	93	35852	5.00	4.74	
34 1,1-Dichloroethane	63	3.973	3.974	-0.001	78	24741	5.00	4.69	
35 Vinyl acetate	86	3.973	3.974	-0.001	98	5877	10.0	9.40	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	90	14158	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	92	42410	5.00	4.78	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	194530	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	8382	5.00	4.99	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	90	20626	5.00	4.85	
41 Ethyl acetate	70	4.504	4.504	0.000	81	2757	10.0	8.19	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	98	9286	25.0	25.6	
44 Methyl acrylate	55	4.559	4.559	0.000	97	10523	5.00	5.04	a
43 Propionitrile	54	4.644	4.644	0.000	97	18185	50.0	45.4	
45 Tetrahydrofuran	72	4.723	4.723	0.000	51	4303	10.0	10.4	
46 Chlorobromomethane	128	4.729	4.729	0.000	71	12006	5.00	5.02	
47 Methacrylonitrile	67	4.741	4.748	-0.007	89	53044	50.0	48.7	
48 Chloroform	83	4.778	4.778	0.000	99	30715	5.00	4.78	
49 Cyclohexane	84	4.918	4.925	-0.007	83	20650	5.00	4.38	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183321	50.0	52.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	29332	5.00	4.77	
52 Carbon tetrachloride	117	5.052	5.059	-0.007	89	24796	5.00	4.54	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	93	19172	5.00	4.39	
56 Isobutyl alcohol	74	5.199	5.199	0.000	95	1798	125.0	98.0	a
54 Benzene	78	5.278	5.284	-0.006	96	59717	5.00	4.77	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	156287	50.0	47.8	
57 Isopropyl acetate	43	5.327	5.321	0.006	61	37612	5.00	4.62	a
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	91	15219	5.00	4.77	
59 1,2-Dichloroethane	62	5.369	5.376	-0.007	96	22423	5.00	4.90	
60 n-Heptane	57	5.424	5.424	0.000	82	9667	5.00	4.08	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	510903	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	9707	125.0	99.4	
63 Trichloroethene	95	5.930	5.930	0.000	91	17099	5.00	4.71	
65 Methylcyclohexane	83	6.064	6.058	0.006	92	26889	5.00	4.51	
64 Ethyl acrylate	56	6.046	6.065	-0.019	97	8095	5.00	4.40	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	86	13133	5.00	4.73	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	28861	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	16744	10.0	9.69	
69 1,4-Dioxane	88	6.333	6.327	0.006	37	4033	100.0	93.8	M
70 n-Propyl acetate	43	6.327	6.327	-0.001	96	14785	5.00	4.66	
71 Dibromomethane	93	6.357	6.351	0.006	88	11618	5.00	4.93	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	21083	5.00	4.63	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.005	78	6869	5.00	4.63	
74 2-Nitropropane	41	6.833	6.833	-0.001	84	4711	10.0	8.10	
75 Epichlorohydrin	57	6.942	6.942	0.000	100	23871	100.0	93.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	89	21627	5.00	4.52	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	56254	25.0	23.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	571588	50.0	49.4	
79 Toluene	91	7.326	7.333	-0.007	92	68282	5.00	4.69	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	19676	5.00	4.53	
81 Ethyl methacrylate	69	7.692	7.692	0.000	85	16415	5.00	4.74	
82 1,1,2-Trichloroethane	83	7.893	7.894	-0.001	93	10661	5.00	4.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	95	21904	5.00	4.57	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	19466	5.00	4.73	
85 2-Hexanone	43	8.155	8.156	-0.001	93	35883	25.0	23.6	
86 n-Butyl acetate	43	8.265	8.265	0.000	97	16499	5.00	4.96	
87 Chlorodibromomethane	129	8.344	8.345	-0.001	96	16637	5.00	4.70	
88 Ethylene Dibromide	107	8.509	8.509	0.000	96	15316	5.00	4.87	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	435609	50.0	50.0	
90 Chlorobenzene	112	9.088	9.094	-0.006	98	48838	5.00	4.76	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	26141	5.00	4.71	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	20011	5.00	4.70	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	32110	5.00	4.71	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	10132	5.00	4.91	
95 o-Xylene	106	9.801	9.802	-0.001	94	34320	5.00	4.79	
96 Styrene	104	9.832	9.832	0.000	96	52373	5.00	4.78	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	19888	5.00	4.88	
98 Bromoform	173	10.070	10.070	0.000	97	11095	5.00	4.64	
99 Isopropylbenzene	105	10.186	10.186	0.000	94	86076	5.00	4.63	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	236717	50.0	50.6	
101 Bromobenzene	156	10.545	10.545	0.000	80	26635	5.00	4.74	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	95	18228	5.00	4.56	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	96790	5.00	4.66	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	94	6561	5.00	5.23	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	71	4112	5.00	4.42	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	88524	5.00	4.69	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	66796	5.00	4.62	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	95	74216	5.00	4.49	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	95	55500	5.00	4.60	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	21560	5.00	4.61	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	60051	5.00	4.27	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	80171	5.00	4.64	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	92066	5.00	4.35	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	87428	5.00	4.42	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	50640	5.00	4.75	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	92	288105	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	52879	5.00	4.90	
118 Benzyl chloride	91	11.655	11.655	0.000	99	41138	5.00	4.89	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	92	88467	5.00	4.79	
120 p-Diethylbenzene	119	11.758	11.759	-0.001	95	54541	5.00	4.76	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	42111	5.00	4.57	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	51461	5.00	4.76	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	92156	5.00	4.65	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	89	4043	5.00	4.91	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	95	49404	5.00	5.00	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	46843	5.00	4.99	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	20299	5.00	4.42	
128 Naphthalene	128	13.319	13.319	0.000	99	96788	5.00	4.94	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	44125	5.00	4.87	
S 130 1,2-Dichloroethene, Total	100				0		10.0	9.75	
S 131 Xylenes, Total	100				0		10.0	9.50	
S 132 Total BTEX	1				0		25.0	23.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	0.50	Units: uL	
ACROLEIN W_00078	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	0.50	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jul-2018 18:58:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D

Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9 Operator ID:

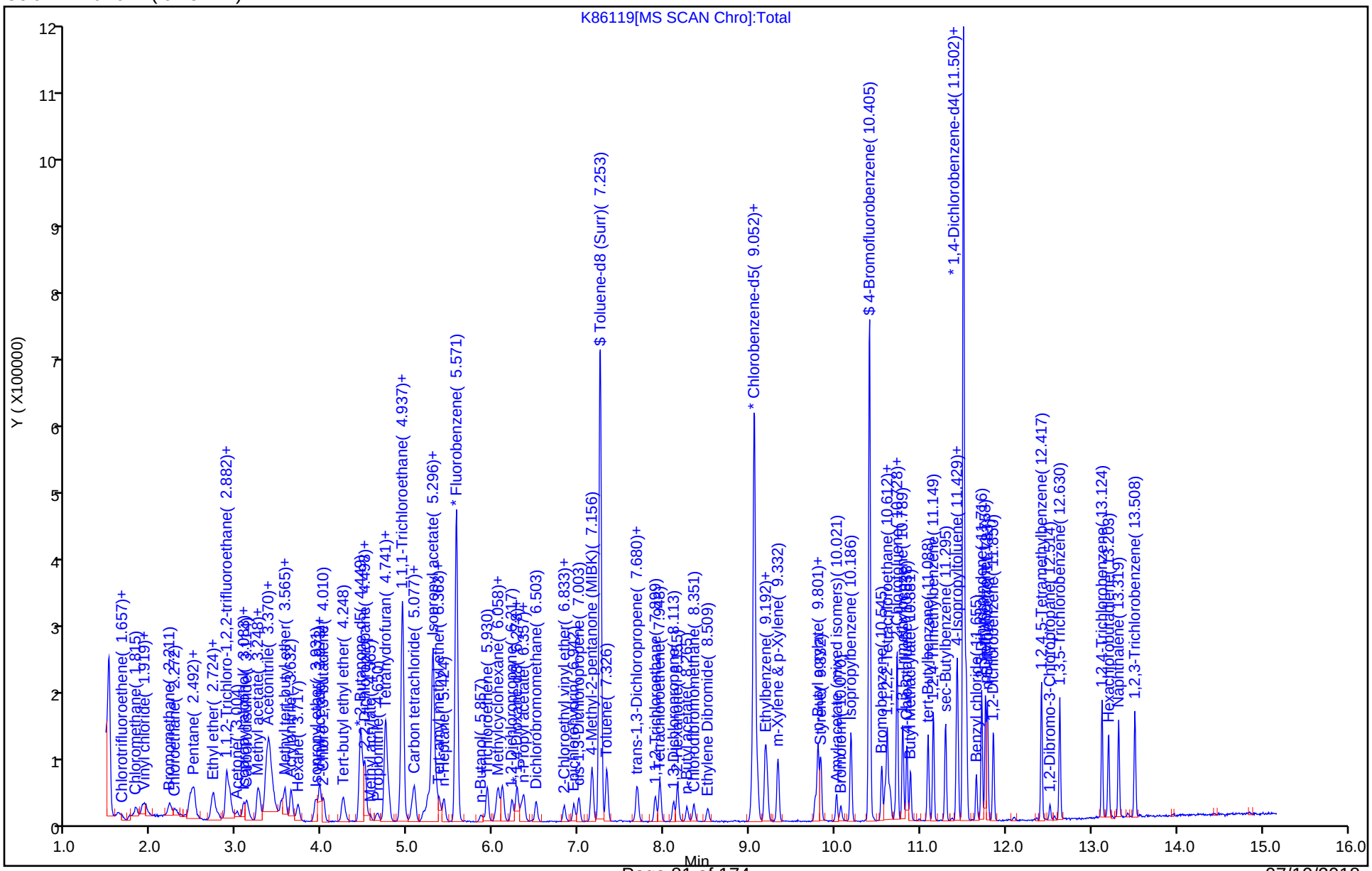
Lims ID: STD5 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

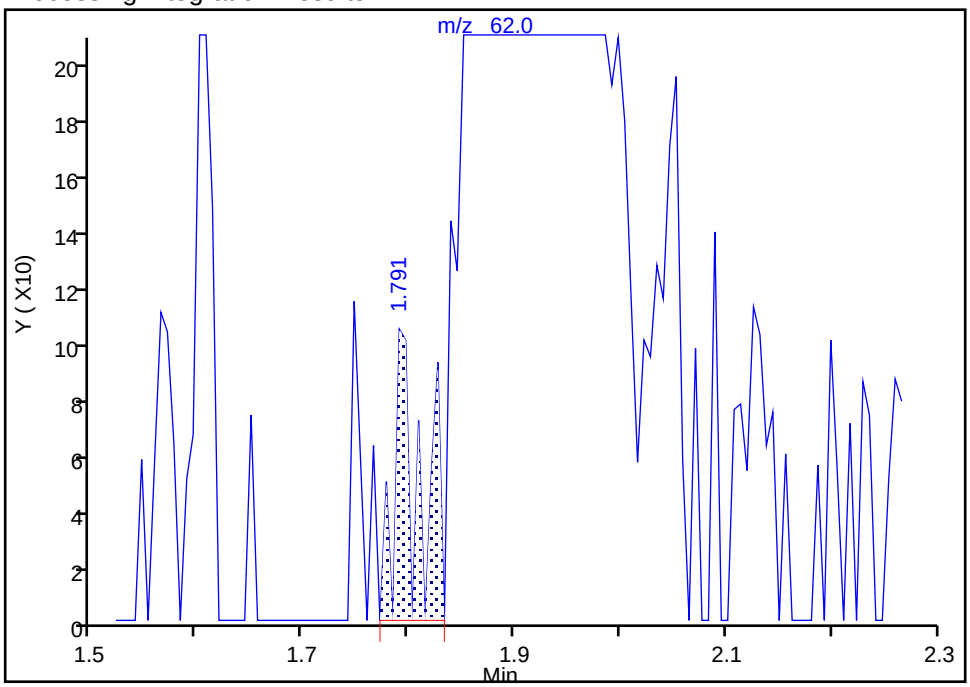
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

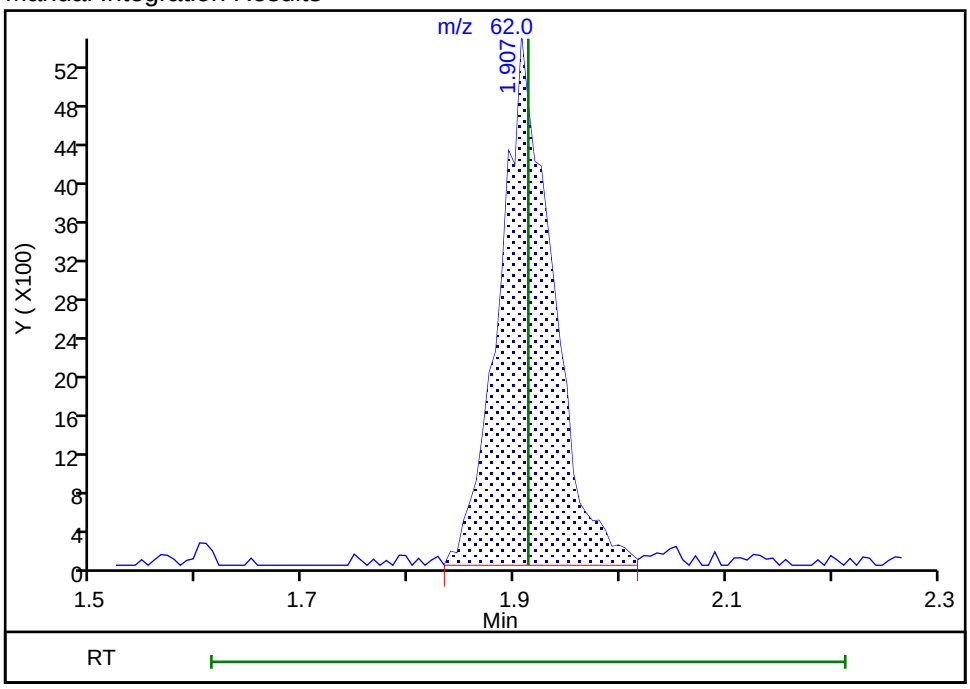
Processing Integration Results

RT: 1.79
Area: 174
Amount: 2.213694
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 19396
Amount: 4.479949
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:45:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

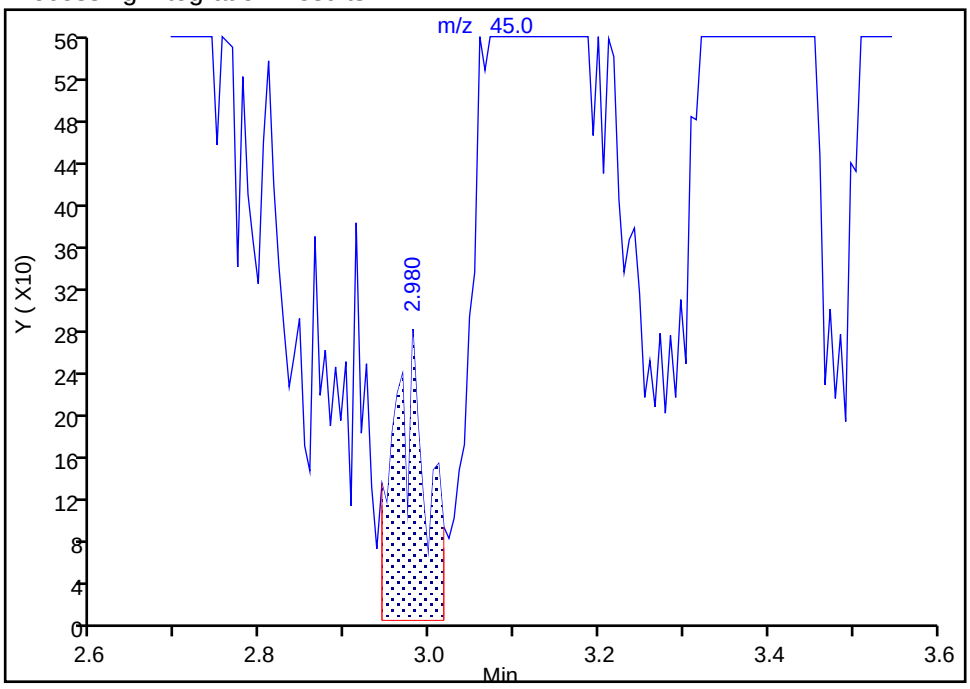
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

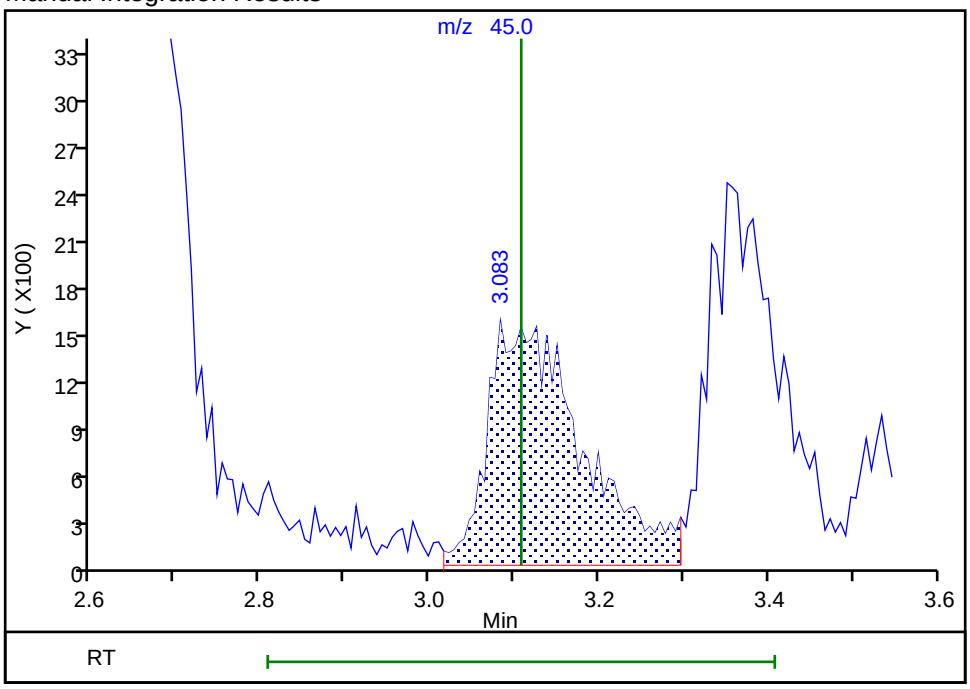
Processing Integration Results

RT: 2.98
Area: 725
Amount: 28.206783
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 11986
Amount: 54.166066
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

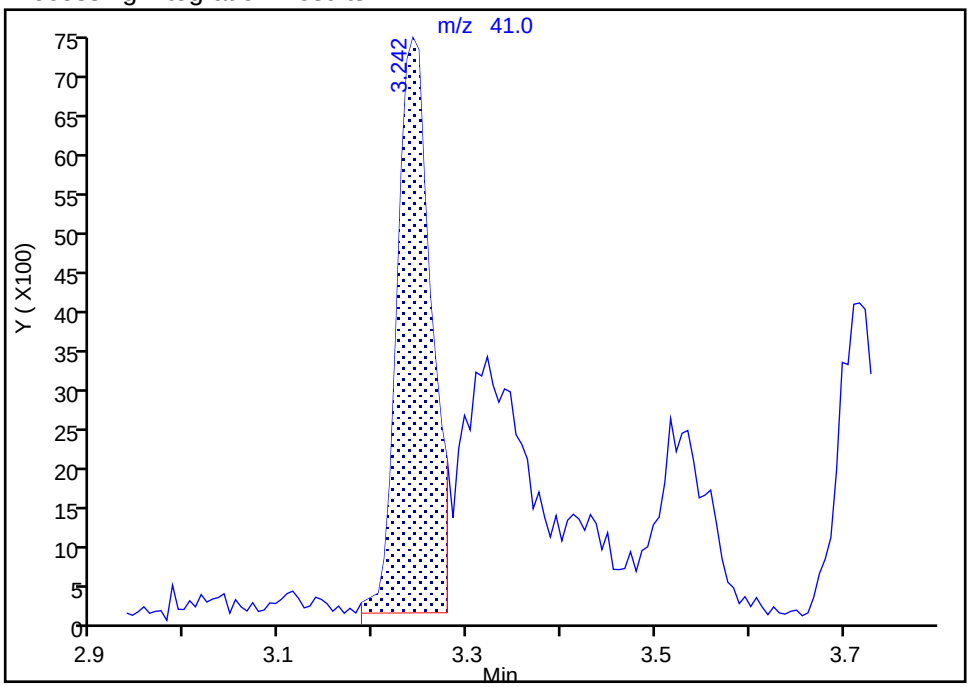
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

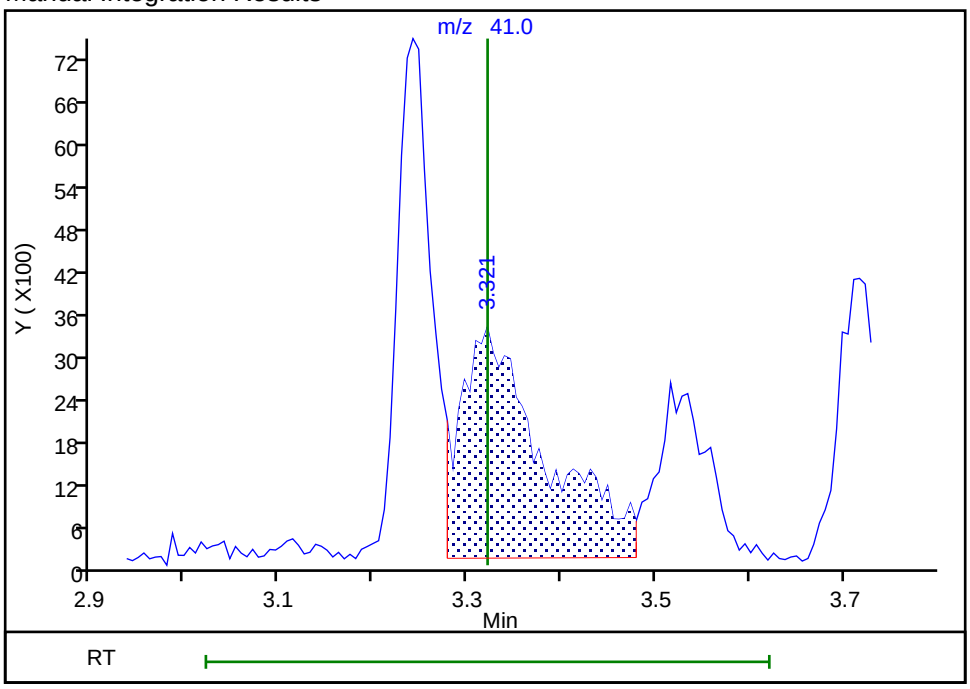
Processing Integration Results

RT: 3.24
Area: 18680
Amount: 44.716158
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 20495
Amount: 49.277687
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

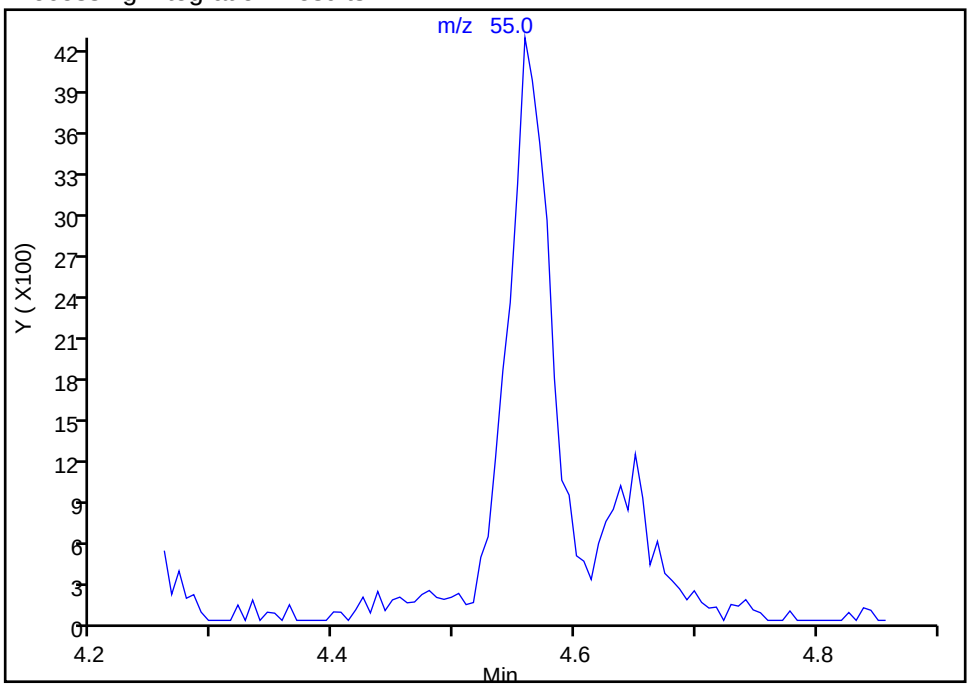
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

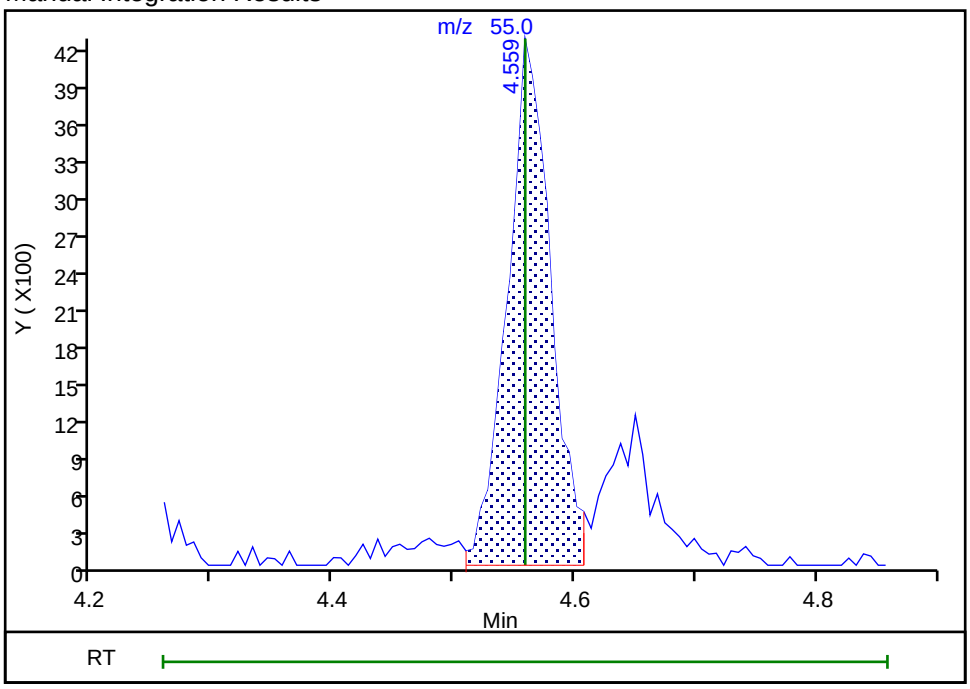
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 10523
Amount: 5.043030
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

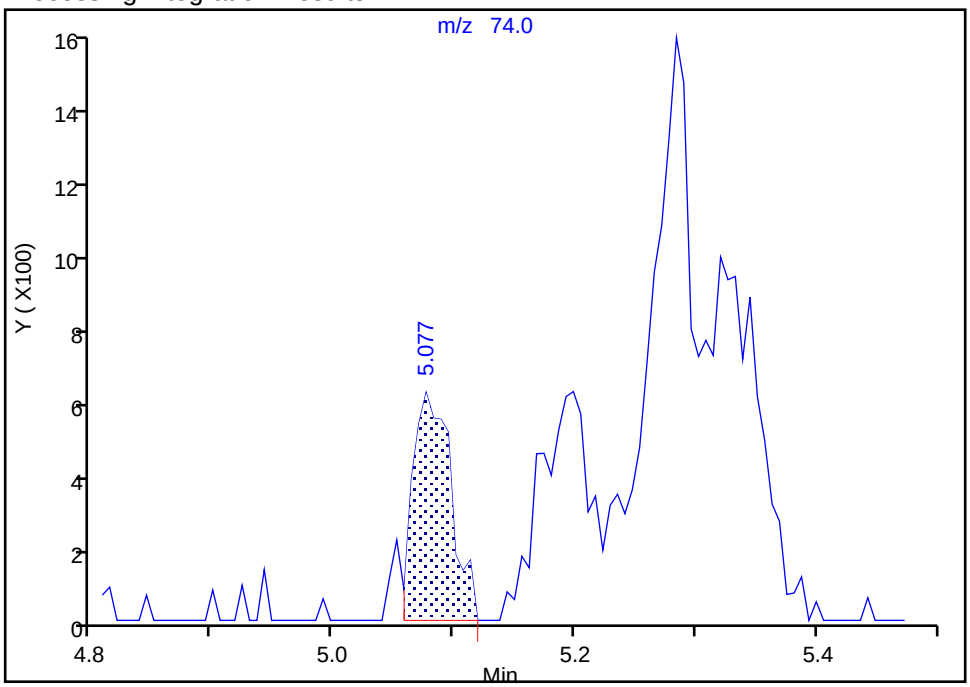
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

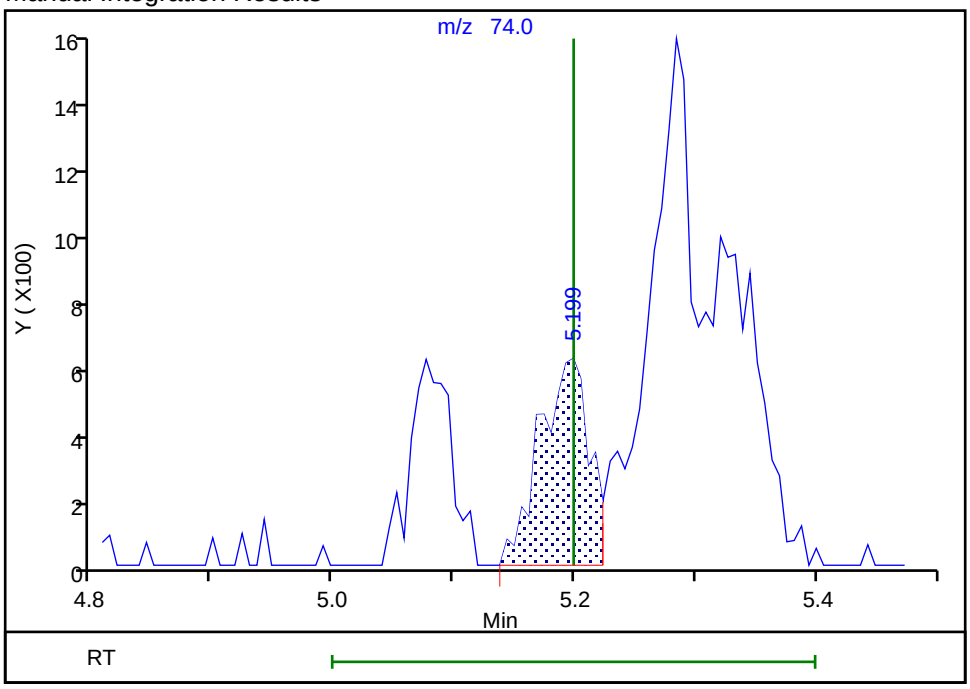
Processing Integration Results

RT: 5.08
Area: 1362
Amount: 75.811391
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 1798
Amount: 97.977820
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

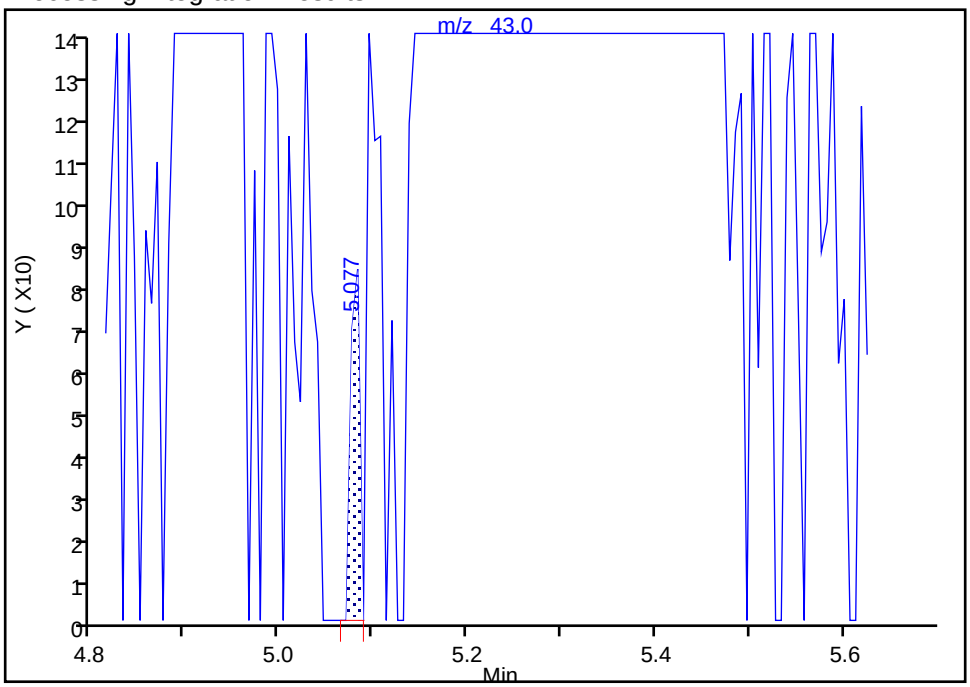
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

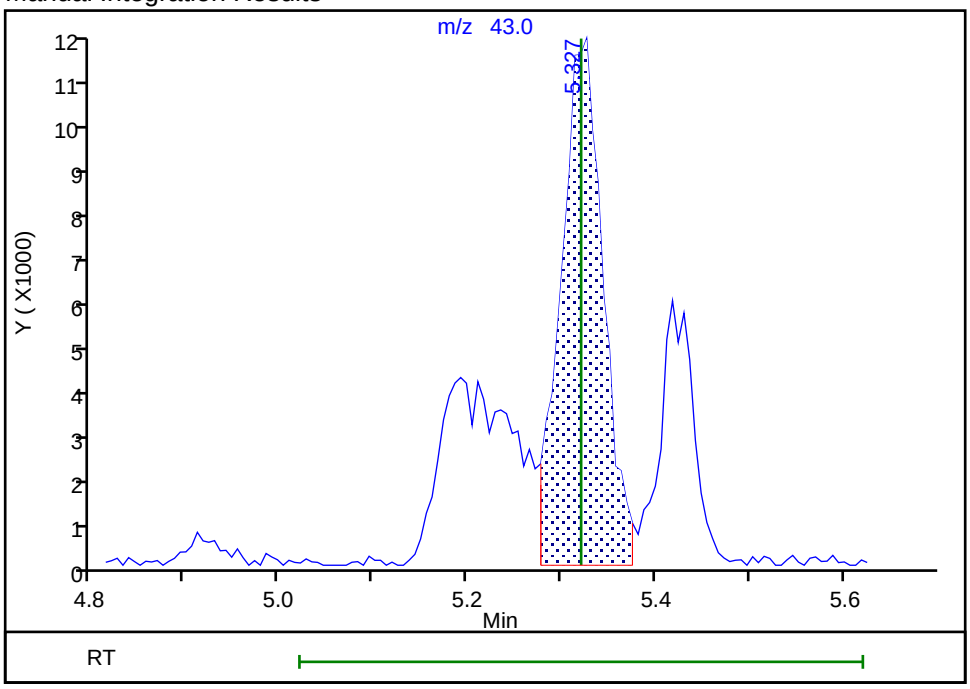
Processing Integration Results

RT: 5.08
Area: 55
Amount: 4.931305
Amount Units: ug/l



Manual Integration Results

RT: 5.33
Area: 37612
Amount: 4.620459
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

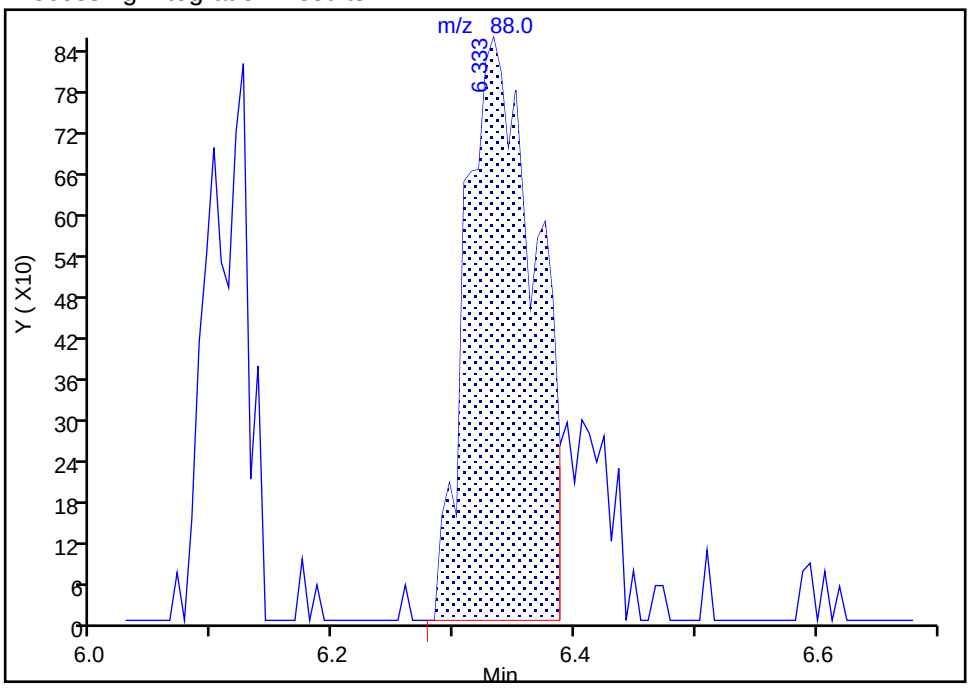
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

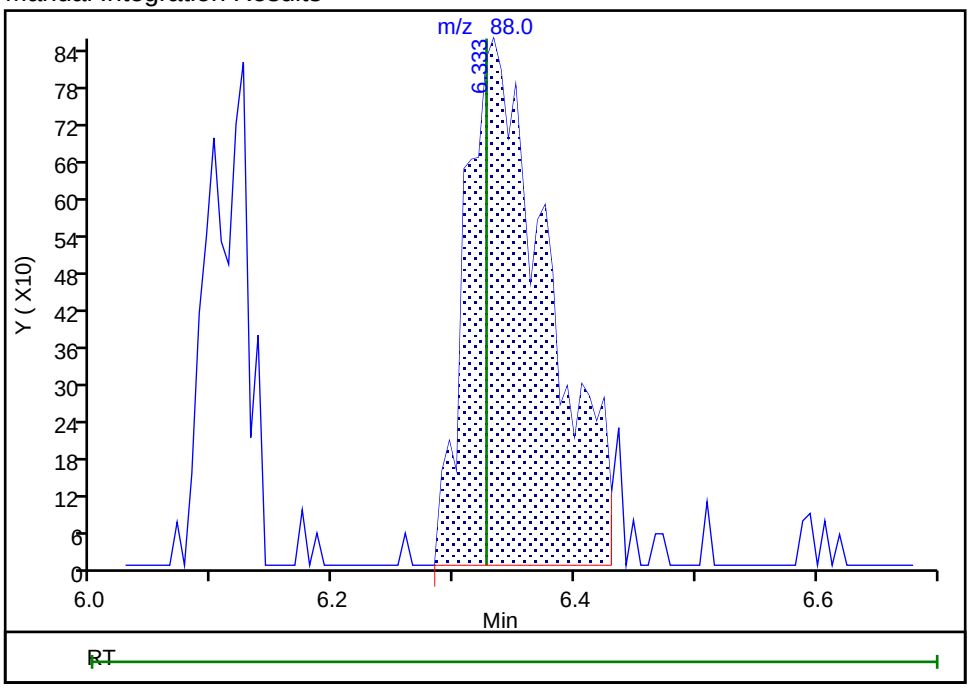
Processing Integration Results

RT: 6.33
Area: 3419
Amount: 81.458006
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 4033
Amount: 93.799684
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:45:51
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Jul-2018 02:35:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074947-005
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:45 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:42:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	86	52418	20.0	20.7	
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	98	111998	20.0	21.3	
3 Chloromethane	50	1.822	1.822	0.000	100	83388	20.0	19.3	
4 Vinyl chloride	62	1.913	1.913	0.000	97	90381	20.0	20.4	
5 Butadiene	54	1.919	1.919	0.000	89	72182	20.0	20.4	
6 Bromomethane	94	2.218	2.218	0.000	98	81457	20.0	20.1	
7 Chloroethane	64	2.273	2.273	0.000	99	49348	20.0	20.6	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	86	149729	20.0	21.3	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	140559	20.0	21.1	
10 Pentane	72	2.504	2.504	0.000	94	17093	40.0	35.1	
11 Ethyl ether	59	2.699	2.699	0.000	90	39782	20.0	19.4	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	94	45609	20.0	20.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	81	71847	20.0	20.7	
12 Ethanol	46	2.754	2.754	0.000	61	11486	800.0	888.1	a
15 Acrolein	56	2.882	2.882	0.000	96	101383	300.0	302.8	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	96	66915	20.0	19.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	55	75863	20.0	20.3	
18 Acetone	43	3.004	3.004	0.000	87	75553	100.0	94.7	
19 Iodomethane	142	3.083	3.083	0.000	98	169207	20.0	20.6	
22 Isopropyl alcohol	45	3.108	3.108	0.000	26	44664	200.0	206.5	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	218590	20.0	19.8	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	81	40344	20.0	20.4	
23 Methyl acetate	43	3.254	3.254	0.000	77	59759	40.0	36.7	
24 Cyclopentene	67	3.266	3.266	0.000	91	141480	20.0	21.3	
29 Acetonitrile	41	3.321	3.321	0.000	85	76843	200.0	189.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	84	73739	20.0	19.3	
* 25 TBA-d9 (IS)	65	3.376	3.376	0.000	0	315266	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	93	89019	200.0	190.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.000	94	197329	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	90	73612	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	94	181194	200.0	203.2	
32 Hexane	43	3.717	3.717	0.000	90	42552	20.0	20.4	
33 Isopropyl ether	45	3.925	3.925	0.000	92	154624	20.0	19.9	
35 Vinyl acetate	86	3.974	3.974	0.000	99	23821	40.0	39.0	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	76	109284	20.0	20.2	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	60491	20.0	20.2	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	183248	20.0	20.1	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195356	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	88	35715	20.0	20.7	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	85	87227	20.0	20.0	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	34679	100.0	95.4	
41 Ethyl acetate	70	4.504	4.504	0.000	85	12416	40.0	42.7	
44 Methyl acrylate	55	4.559	4.559	0.000	98	41899	20.0	19.6	a
43 Propionitrile	54	4.644	4.644	0.000	97	74854	200.0	191.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	54	15777	40.0	37.8	
46 Chlorobromomethane	128	4.729	4.729	0.000	64	49578	20.0	20.2	
47 Methacrylonitrile	67	4.748	4.748	0.000	88	225394	200.0	201.9	
48 Chloroform	83	4.778	4.778	0.000	98	129987	20.0	19.7	
49 Cyclohexane	84	4.925	4.925	0.000	84	101855	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	130186	20.0	20.6	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183890	50.0	51.0	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	115933	20.0	20.7	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	91697	20.0	20.5	
56 Isobutyl alcohol	74	5.199	5.199	0.000	93	8917	500.0	497.1	a
54 Benzene	78	5.284	5.284	0.000	95	263486	20.0	20.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	160739	50.0	48.0	
57 Isopropyl acetate	43	5.321	5.321	0.000	95	162815	20.0	19.5	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	95	66196	20.0	20.2	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	89552	20.0	19.1	
60 n-Heptane	57	5.424	5.424	0.000	83	50453	20.0	20.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	524058	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	83	45046	500.0	471.9	
63 Trichloroethene	95	5.930	5.930	0.000	93	76997	20.0	20.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	93	132704	20.0	21.7	
64 Ethyl acrylate	56	6.065	6.065	0.000	93	37954	20.0	20.1	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	87	55073	20.0	19.3	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	28660	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	76	72070	40.0	40.7	
70 n-Propyl acetate	43	6.327	6.327	0.000	96	62119	20.0	19.1	
69 1,4-Dioxane	88	6.327	6.327	0.000	29	18123	400.0	424.5	a
71 Dibromomethane	93	6.351	6.351	0.000	90	46676	20.0	19.3	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	92702	20.0	19.8	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	29805	20.0	19.6	
74 2-Nitropropane	41	6.833	6.833	0.000	85	21432	40.0	35.9	
75 Epichlorohydrin	57	6.942	6.942	0.000	98	101973	400.0	397.2	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	96016	20.0	19.3	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	240422	100.0	100.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	600096	50.0	49.9	
79 Toluene	91	7.333	7.333	0.000	93	301255	20.0	19.9	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	86857	20.0	19.2	
81 Ethyl methacrylate	69	7.692	7.692	0.000	84	70228	20.0	19.5	
82 1,1,2-Trichloroethane	83	7.894	7.894	0.000	94	46261	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	101618	20.0	20.4	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	82201	20.0	19.2	
85 2-Hexanone	43	8.156	8.156	0.000	93	151851	100.0	99.4	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	67025	20.0	19.4	
87 Chlorodibromomethane	129	8.345	8.345	0.000	97	70673	20.0	19.2	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	65649	20.0	20.1	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	453009	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	99	214946	20.0	20.1	
92 Ethylbenzene	106	9.186	9.186	0.000	97	117941	20.0	20.4	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	93	88009	20.0	19.9	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	142588	20.0	20.1	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	43582	20.0	20.3	
95 o-Xylene	106	9.802	9.802	0.000	95	149451	20.0	20.1	
96 Styrene	104	9.832	9.832	0.000	97	234499	20.0	20.6	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	80880	20.0	19.2	
98 Bromoform	173	10.070	10.070	0.000	98	46754	20.0	18.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	403055	20.0	20.9	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	250725	50.0	51.5	
101 Bromobenzene	156	10.545	10.545	0.000	81	114264	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	81714	20.0	19.8	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	433409	20.0	20.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	25010	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	89	18515	20.0	19.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	296512	20.0	19.9	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	393601	20.0	20.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	345257	20.0	20.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	248210	20.0	19.9	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	95827	20.0	19.9	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	288890	20.0	19.9	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	359787	20.0	20.2	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	443178	20.0	20.3	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	414905	20.0	20.3	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	99	224210	20.0	20.4	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	91	297066	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	221000	20.0	19.8	
118 Benzyl chloride	91	11.655	11.655	0.000	99	173003	20.0	20.0	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	385458	20.0	20.2	
120 p-Diethylbenzene	119	11.759	11.759	0.000	96	253230	20.0	21.4	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	196798	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	224089	20.0	20.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	414331	20.0	20.3	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	90	15652	20.0	18.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	209633	20.0	20.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	197711	20.0	20.4	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	97	96713	20.0	20.4	
128 Naphthalene	128	13.319	13.319	0.000	99	408897	20.0	20.2	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	97	193378	20.0	20.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.0	
S 131 Xylenes, Total	100				0		40.0	40.2	
S 132 Total BTEX	1				0		100.0	100.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jul-2018 18:58:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D

Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9 Operator ID:

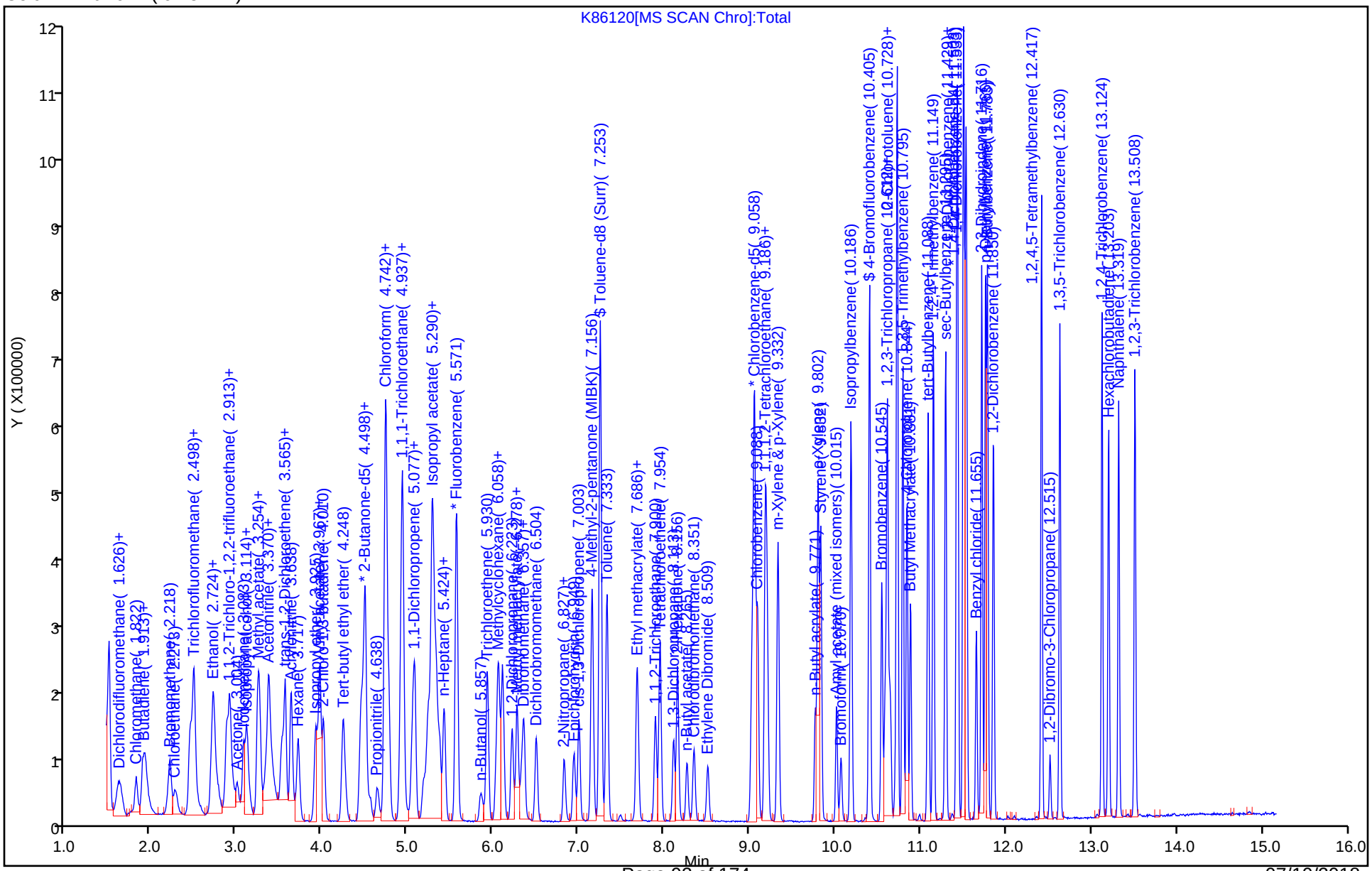
Lims ID: STD20 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

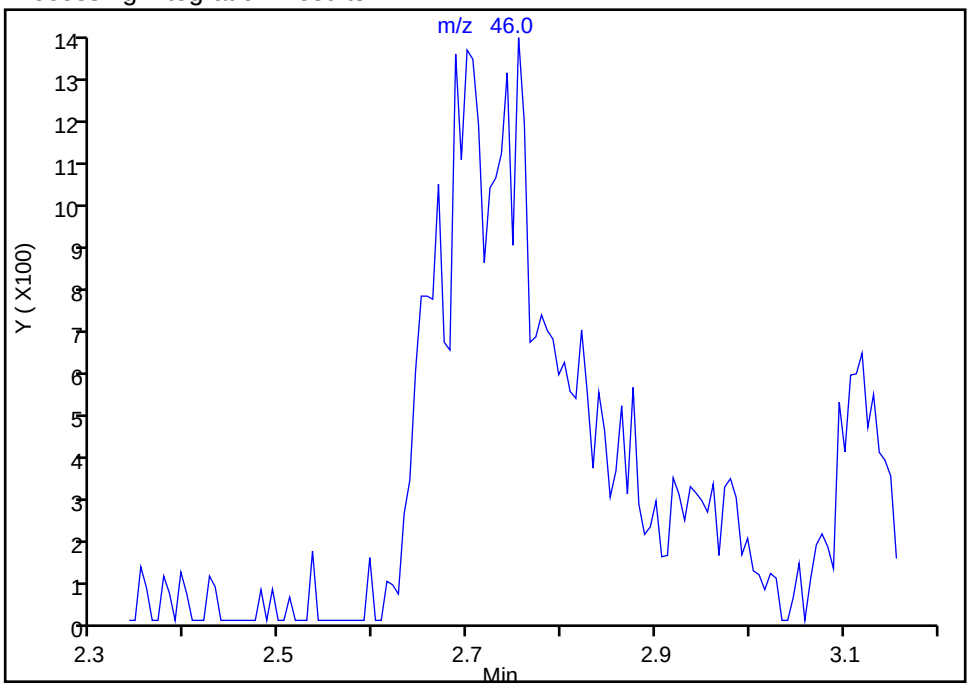
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

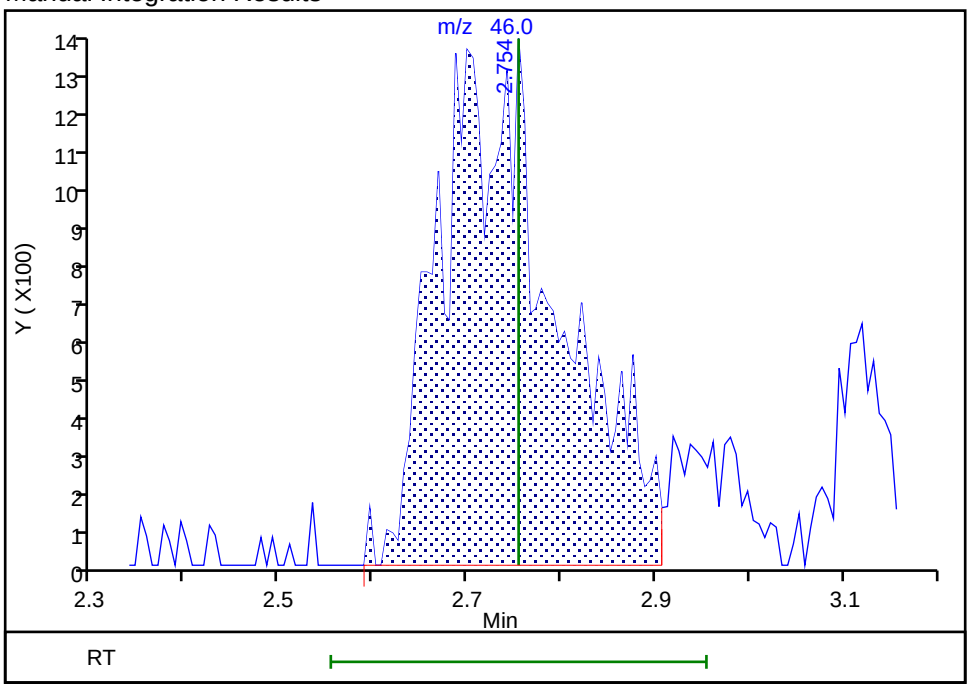
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.75
Area: 11486
Amount: 888.1042
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:39:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

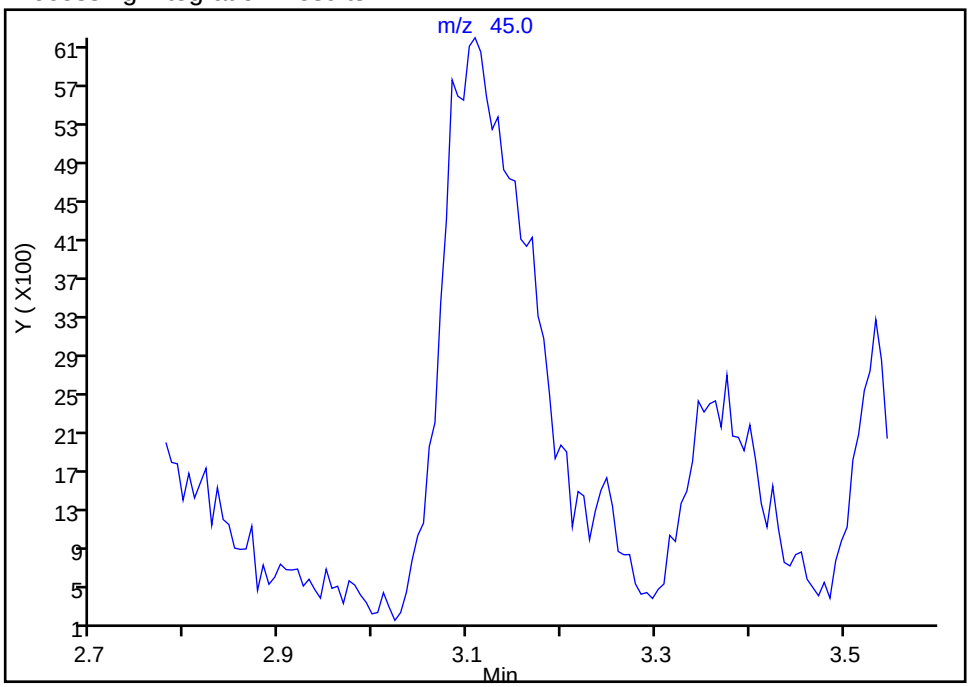
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

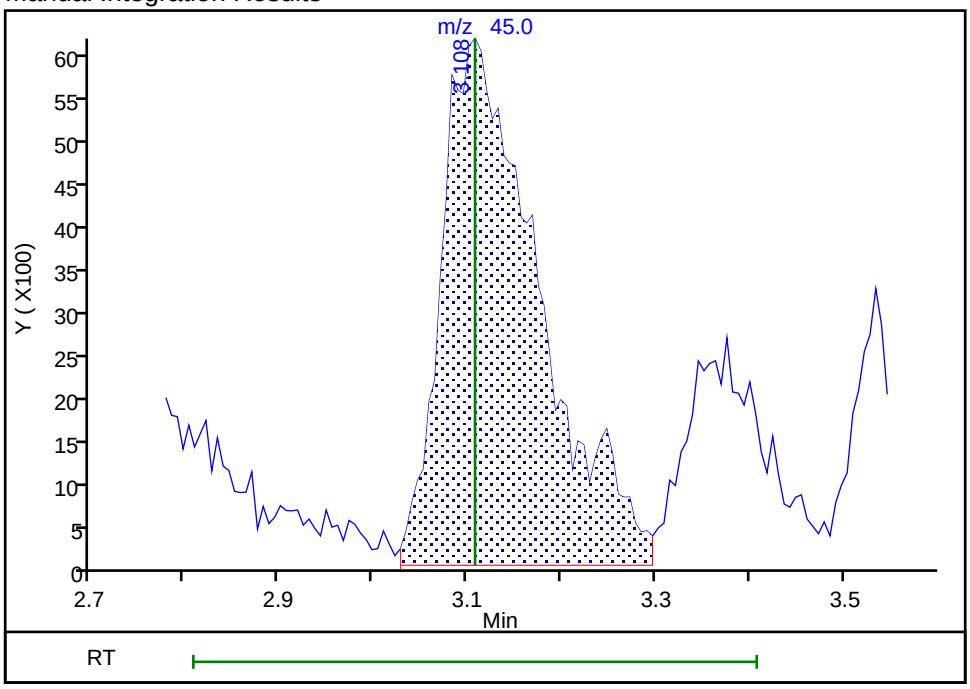
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 44664
Amount: 206.4947
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

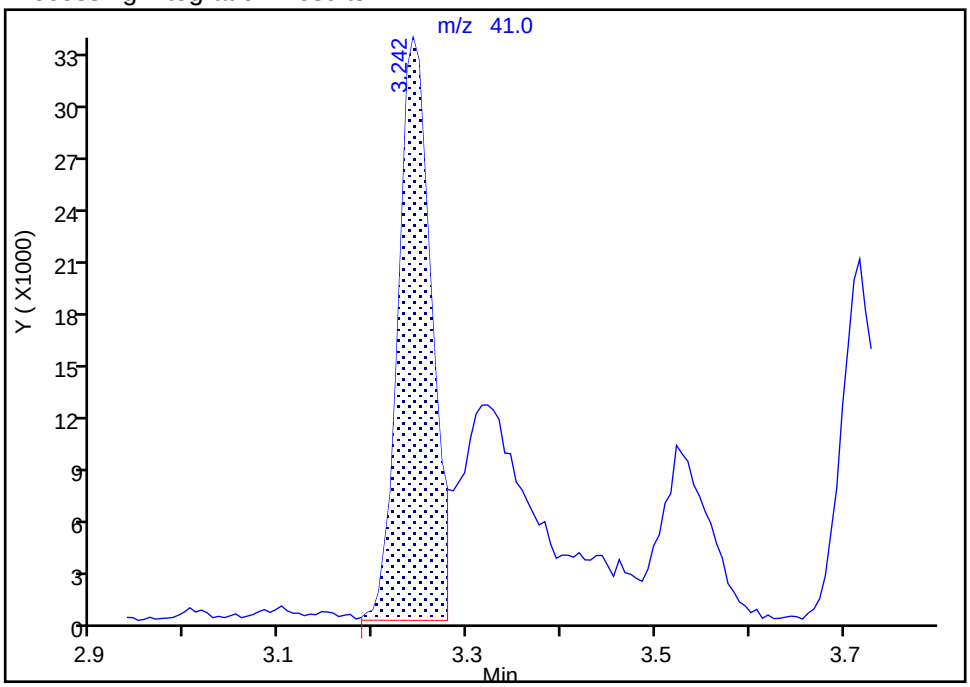
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

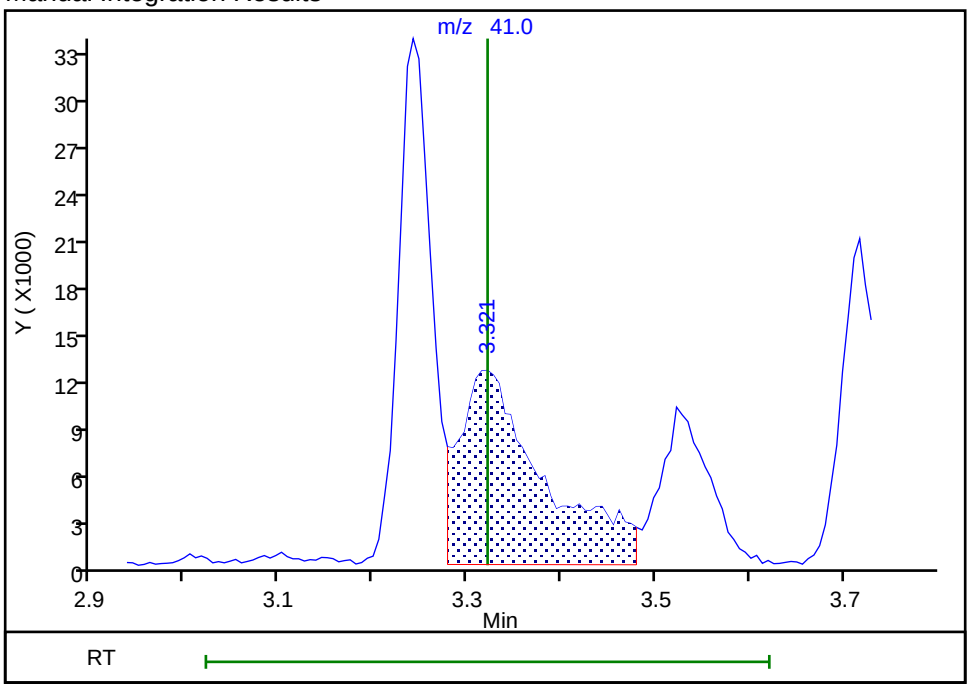
Processing Integration Results

RT: 3.24
Area: 81002
Amount: 189.9684
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 76843
Amount: 189.0188
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

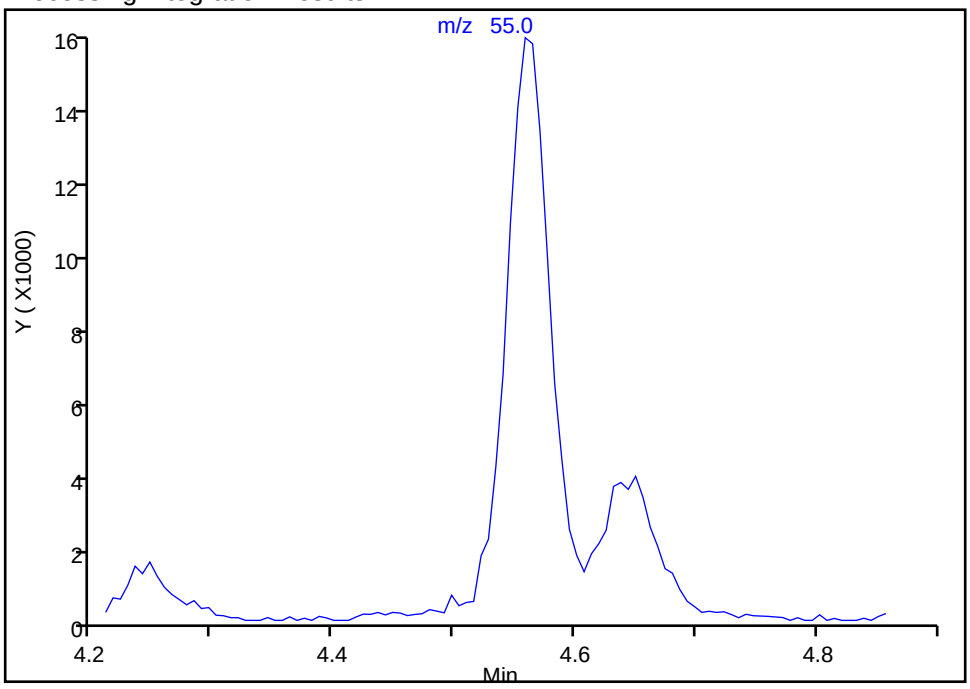
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

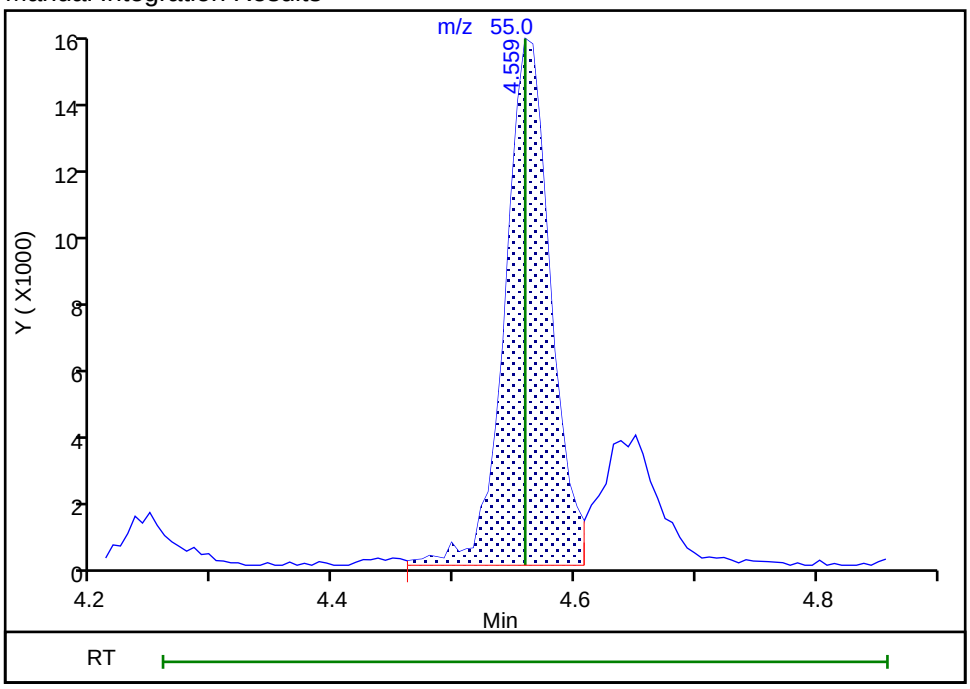
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 41899
Amount: 19.575586
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

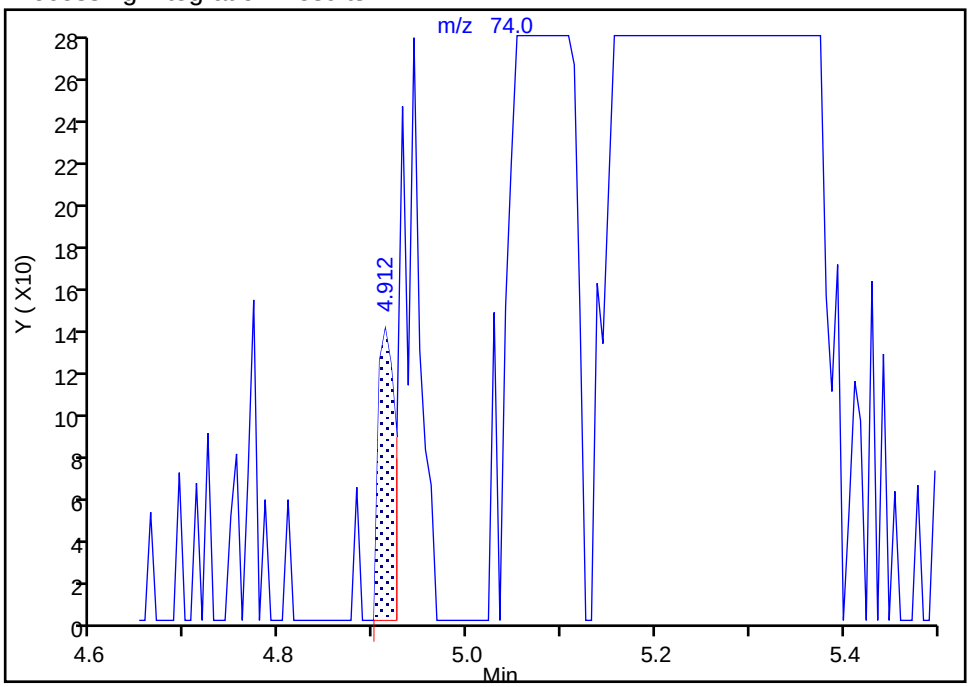
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

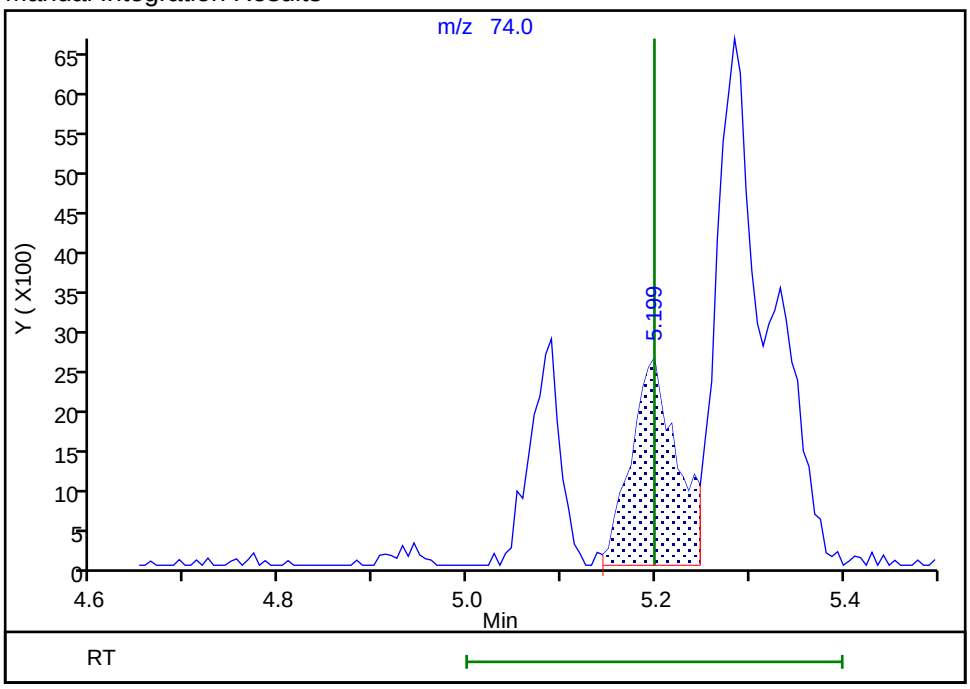
Processing Integration Results

RT: 4.91
Area: 174
Amount: 22.016312
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 8917
Amount: 497.1131
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

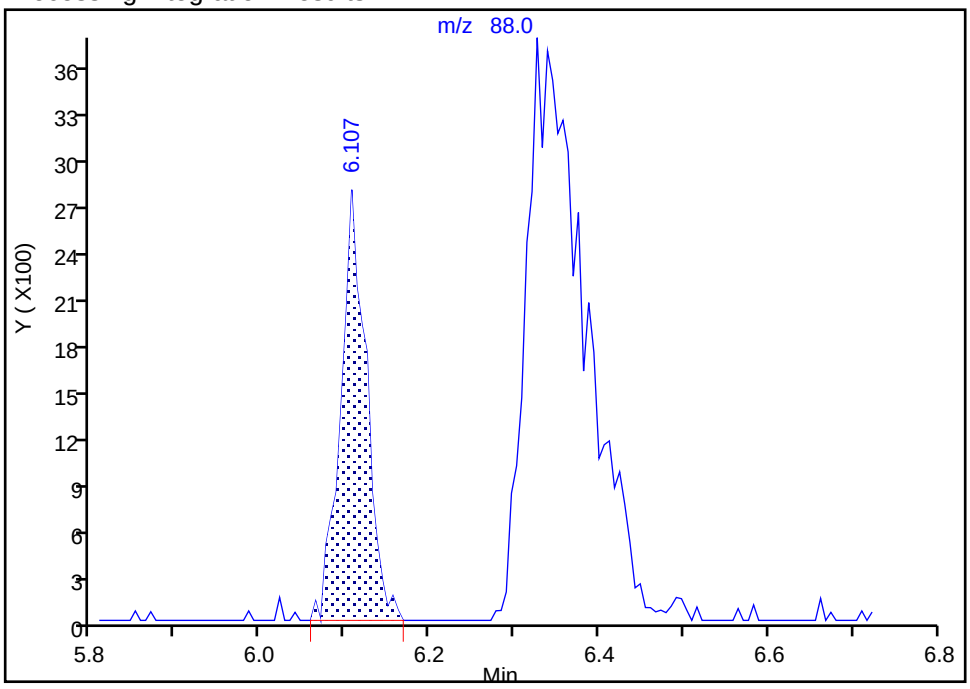
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

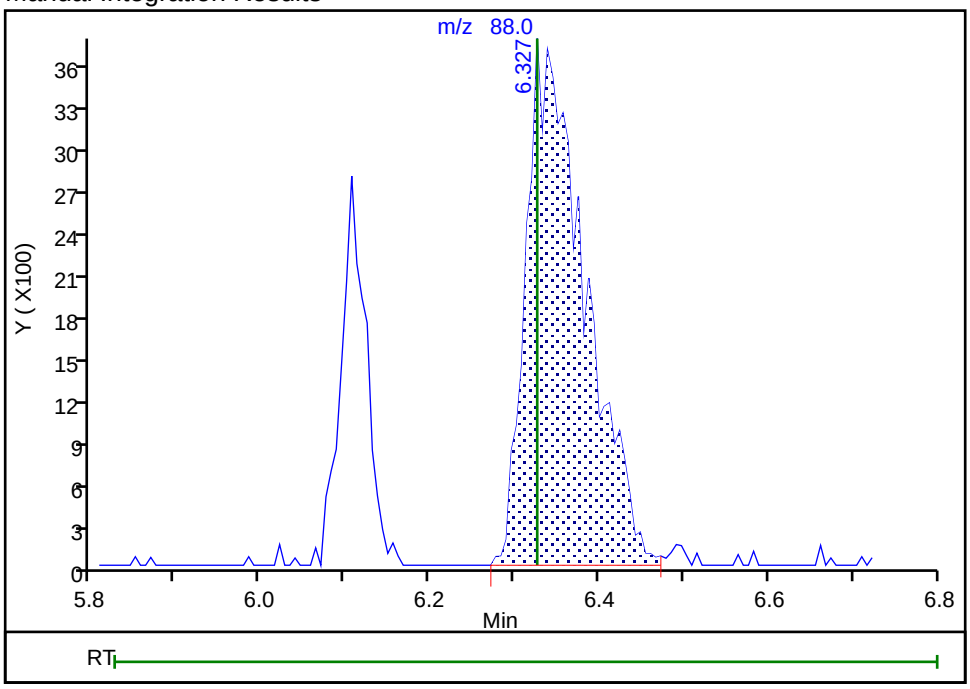
Processing Integration Results

RT: 6.11
Area: 5860
Amount: 190.8679
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 18123
Amount: 424.4616
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jul-2018 02:59:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074947-006
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:00 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:44:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	130419	50.0	50.6	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	99	281125	50.0	52.4	
3 Chloromethane	50	1.822	1.822	0.000	99	209589	50.0	47.5	
4 Vinyl chloride	62	1.913	1.913	0.000	98	229225	50.0	50.6	
5 Butadiene	54	1.919	1.919	0.000	74	181610	50.0	50.4	
6 Bromomethane	94	2.212	2.218	-0.006	97	204558	50.0	49.4	
7 Chloroethane	64	2.279	2.273	0.006	100	125970	50.0	51.6	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	366071	50.0	53.8	
8 Trichlorofluoromethane	101	2.456	2.462	-0.006	87	383407	50.0	53.5	
10 Pentane	72	2.492	2.504	-0.012	95	46935	100.0	99.6	
11 Ethyl ether	59	2.700	2.699	0.001	93	100630	50.0	48.1	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	117038	50.0	52.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	84	190654	50.0	54.0	
12 Ethanol	46	2.700	2.754	-0.054	61	28493	2000.0	2277.2	
15 Acrolein	56	2.882	2.882	0.000	98	132647	400.0	409.4	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	96	166446	50.0	47.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.913	2.925	-0.012	87	202738	50.0	53.1	
18 Acetone	43	3.004	3.004	0.000	87	176068	250.0	221.0	
19 Iodomethane	142	3.077	3.083	-0.006	98	419457	50.0	50.2	
22 Isopropyl alcohol	45	3.090	3.108	-0.018	26	103170	500.0	493.0	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	556272	50.0	49.4	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	89	102616	50.0	50.9	
23 Methyl acetate	43	3.242	3.254	-0.012	97	149700	100.0	95.0	
24 Cyclopentene	67	3.260	3.266	-0.006	94	356651	50.0	52.7	
29 Acetonitrile	41	3.309	3.321	-0.012	95	182117	500.0	463.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	184920	50.0	47.4	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	305011	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	94	211033	500.0	466.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.001	94	482529	50.0	48.7	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	189715	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	92	439324	500.0	483.0	
32 Hexane	43	3.712	3.717	-0.005	89	104407	50.0	49.2	
33 Isopropyl ether	45	3.925	3.925	0.000	94	391625	50.0	49.5	
34 1,1-Dichloroethane	63	3.968	3.974	-0.006	75	269363	50.0	48.8	
35 Vinyl acetate	86	3.974	3.974	0.000	99	57351	100.0	97.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	160745	50.0	52.5	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	459151	50.0	49.5	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195019	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.473	0.007	92	89356	50.0	50.8	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	217144	50.0	48.8	
41 Ethyl acetate	70	4.504	4.504	0.000	93	29864	100.0	104.9	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	83071	250.0	228.8	
44 Methyl acrylate	55	4.559	4.559	0.000	98	103291	50.0	47.3	
43 Propionitrile	54	4.644	4.644	0.000	97	183361	500.0	484.3	
45 Tetrahydrofuran	72	4.730	4.723	0.007	86	40304	100.0	96.8	
46 Chlorobromomethane	128	4.730	4.729	0.001	68	122405	50.0	48.9	
47 Methacrylonitrile	67	4.742	4.748	-0.006	88	562513	500.0	494.0	
48 Chloroform	83	4.778	4.778	0.000	99	333917	50.0	49.7	
49 Cyclohexane	84	4.919	4.925	-0.006	86	263540	50.0	53.5	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	98	178148	50.0	48.4	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	327534	50.0	50.9	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	97	294074	50.0	51.5	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	96	230608	50.0	50.5	
56 Isobutyl alcohol	74	5.193	5.199	-0.006	95	19987	1250.0	1151.7	a
54 Benzene	78	5.284	5.284	0.000	96	665118	50.0	49.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.296	0.001	0	165511	50.0	48.4	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	413420	50.0	48.6	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	167390	50.0	50.1	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	222791	50.0	46.6	
60 n-Heptane	57	5.425	5.424	0.001	84	127334	50.0	51.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	534426	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	110752	1250.0	1199.3	
63 Trichloroethene	95	5.931	5.930	0.001	94	192736	50.0	50.8	
65 Methylcyclohexane	83	6.059	6.058	0.001	93	331651	50.0	53.2	
64 Ethyl acrylate	56	6.053	6.065	-0.013	98	91463	50.0	47.5	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	89	142919	50.0	49.2	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	29939	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	80	180614	100.0	99.9	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	41357	1000.0	927.2	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	155324	50.0	46.8	
71 Dibromomethane	93	6.357	6.351	0.006	88	116161	50.0	47.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	230925	50.0	48.5	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	75700	50.0	48.8	
74 2-Nitropropane	41	6.833	6.833	0.000	83	51826	100.0	85.2	
75 Epichlorohydrin	57	6.943	6.942	0.001	99	256352	1000.0	1000.2	
76 cis-1,3-Dichloropropene	75	7.004	7.003	0.001	90	247393	50.0	48.4	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	599225	250.0	251.4	
$ 78 Toluene-d8 (Surr)	98	7.254	7.253	0.001	99	618788	50.0	50.0	
79 Toluene	91	7.333	7.333	0.000	93	769909	50.0	49.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	224848	50.0	48.4	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	179539	50.0	48.5	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	119023	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.955	7.954	0.001	96	260413	50.0	50.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	210429	50.0	47.9	
85 2-Hexanone	43	8.156	8.156	0.000	94	376353	250.0	246.8	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	166473	50.0	46.8	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	185004	50.0	48.9	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	163141	50.0	48.6	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	465894	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	99	545861	50.0	49.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	299865	50.0	50.5	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	226767	50.0	49.7	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	368302	50.0	50.5	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	110767	50.0	50.2	
95 o-Xylene	106	9.802	9.802	0.000	95	386379	50.0	50.4	
96 Styrene	104	9.832	9.832	0.000	97	604297	50.0	51.6	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	93	207413	50.0	49.7	
98 Bromoform	173	10.070	10.070	0.000	98	120501	50.0	47.1	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	1036812	50.0	52.2	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	246914	50.0	49.3	
101 Bromobenzene	156	10.546	10.545	0.001	81	285875	50.0	49.8	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	96	199535	50.0	48.8	
103 N-Propylbenzene	91	10.613	10.612	0.001	100	1109900	50.0	52.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	64414	50.0	50.2	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	93	45136	50.0	47.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	1006783	50.0	52.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	761014	50.0	51.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	882629	50.0	52.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	633538	50.0	51.3	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	244299	50.0	51.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	764303	50.0	53.2	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	914193	50.0	51.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	1151652	50.0	53.2	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	1068622	50.0	52.8	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	554819	50.0	50.9	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	294521	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	548468	50.0	49.7	
118 Benzyl chloride	91	11.655	11.655	0.000	100	427347	50.0	49.7	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	969203	50.0	51.4	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	622855	50.0	53.2	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	500935	50.0	53.1	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	560102	50.0	50.7	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	1072321	50.0	52.9	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	89	38675	50.0	45.9	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	516732	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	490747	50.0	51.1	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	97	248504	50.0	52.9	
128 Naphthalene	128	13.319	13.319	0.000	99	1007107	50.0	50.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	471447	50.0	50.9	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.3	
S 131 Xylenes, Total	100				0		100.0	100.9	
S 132 Total BTEX	1				0		250.0	250.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00267	Amount Added:	5.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	5.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

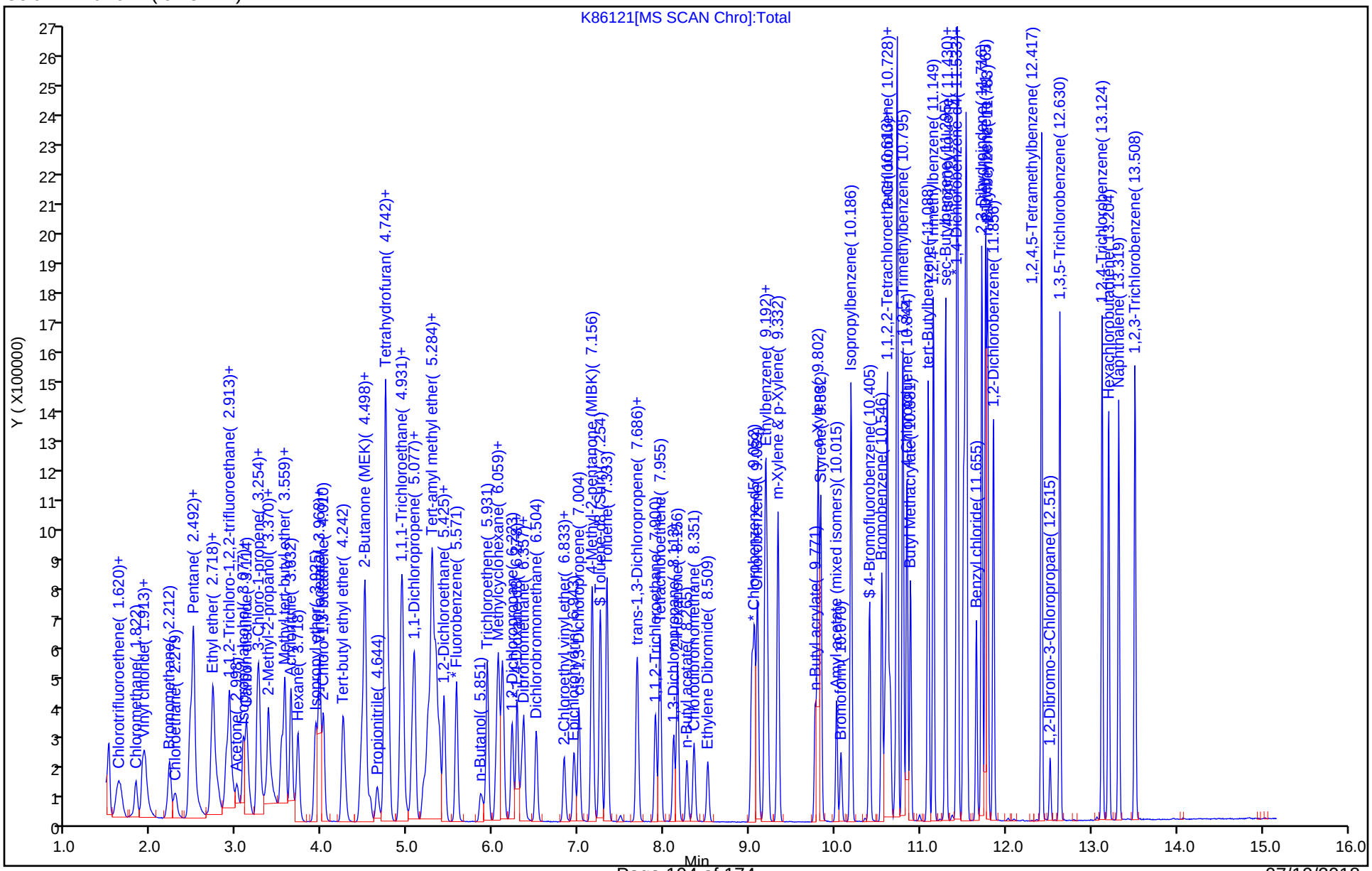
Report Date: 06-Jul-2018 18:59:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D

Injection Date:	06-Jul-2018 02:59:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

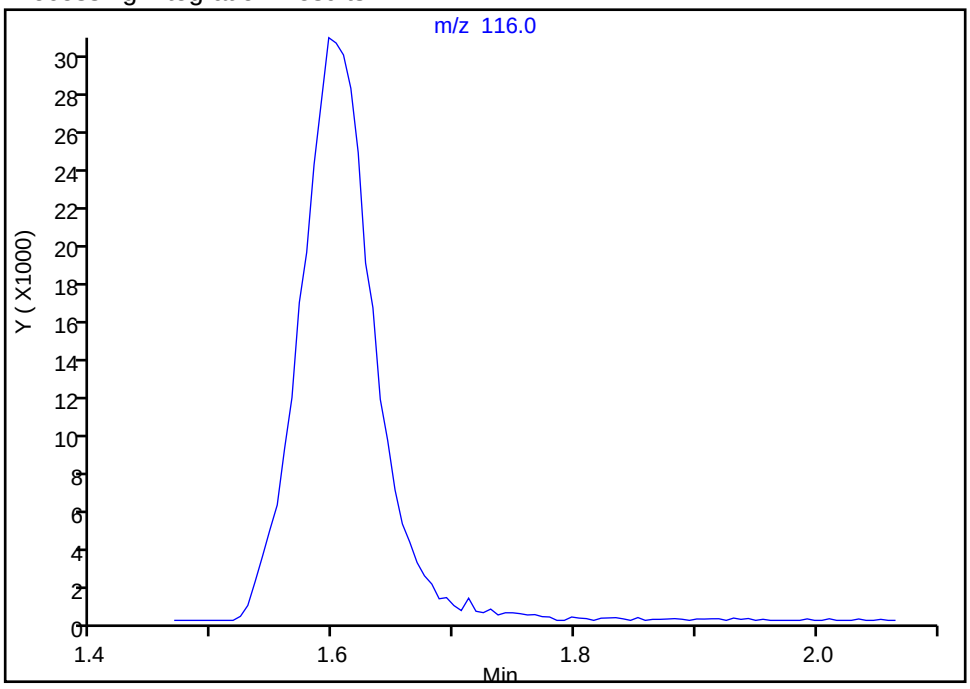
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

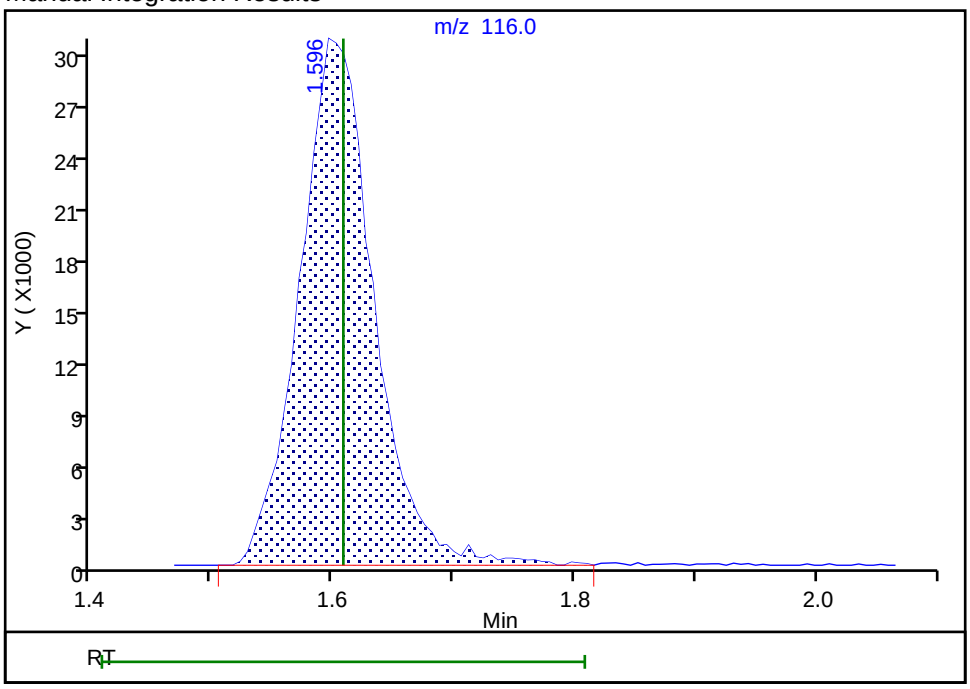
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 130419
Amount: 50.625555
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:42:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

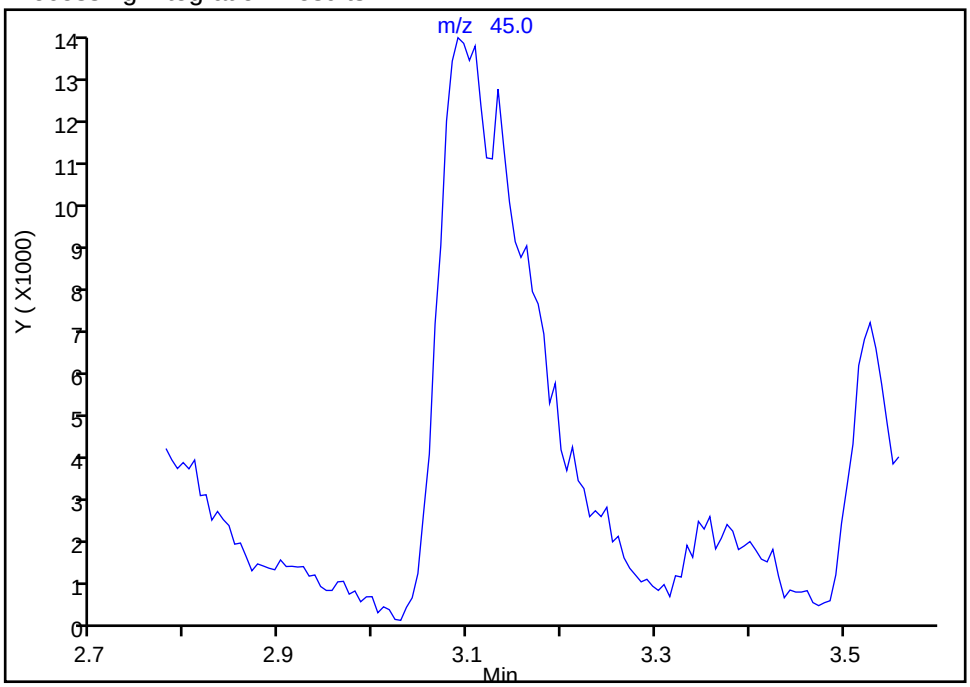
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

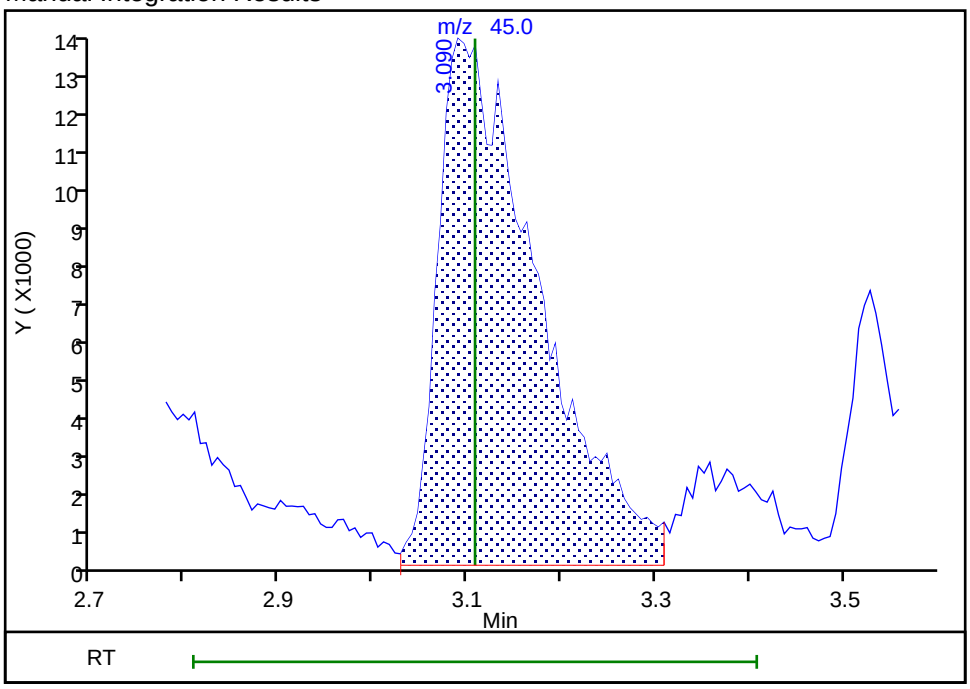
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 103170
Amount: 493.0222
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

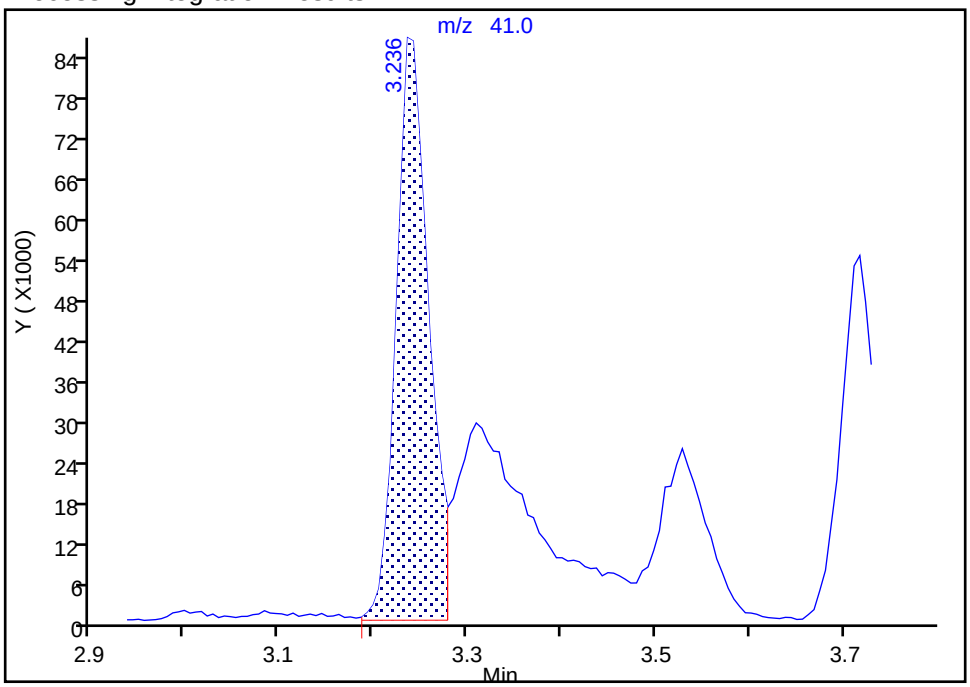
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

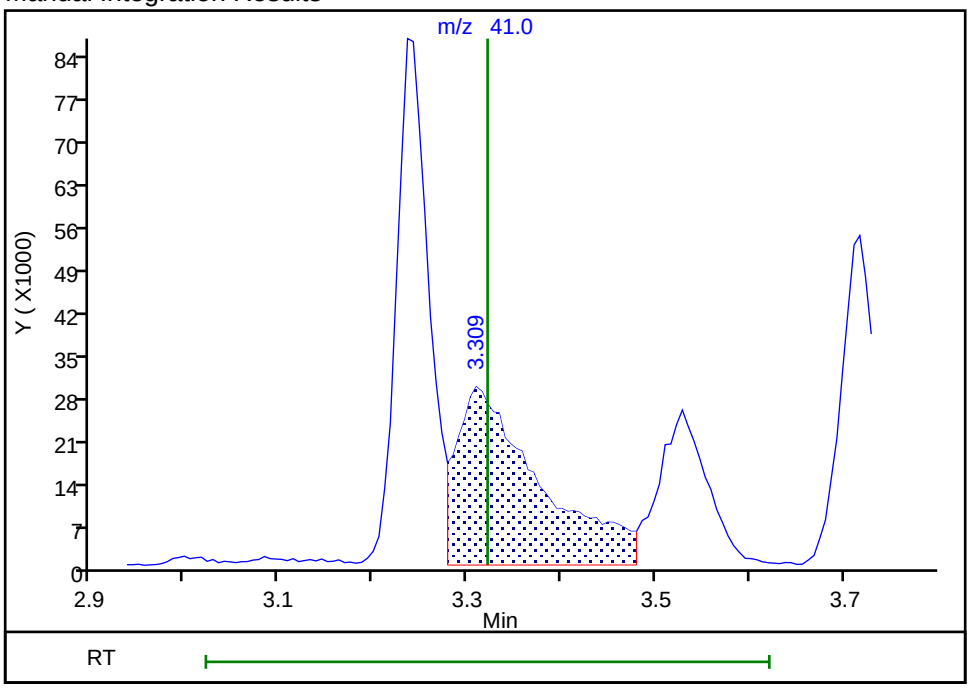
Processing Integration Results

RT: 3.24
Area: 207983
Amount: 510.3906
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 182117
Amount: 463.0340
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

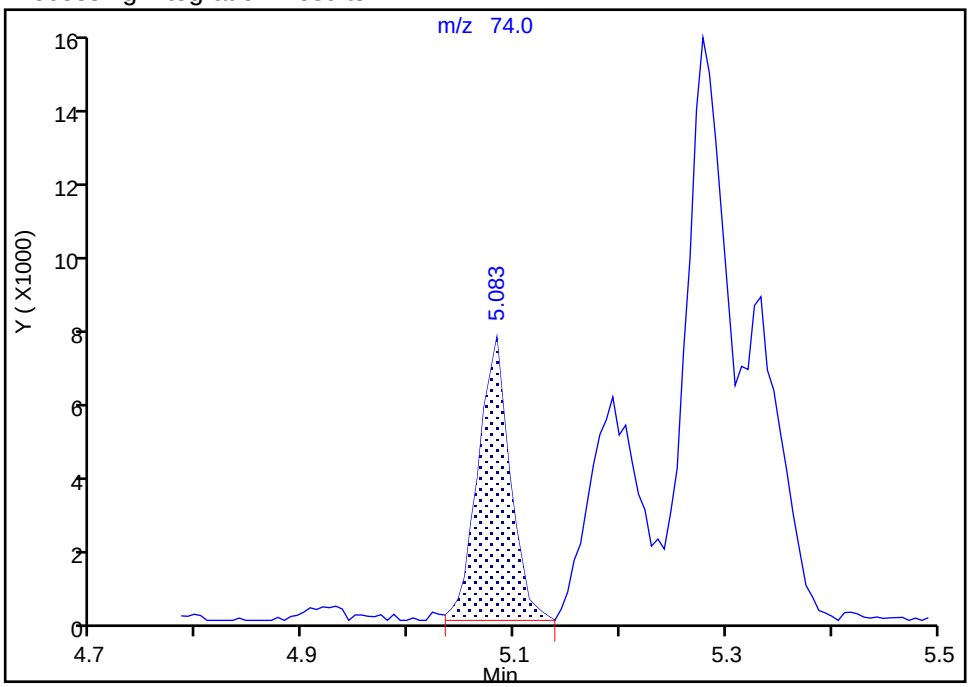
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

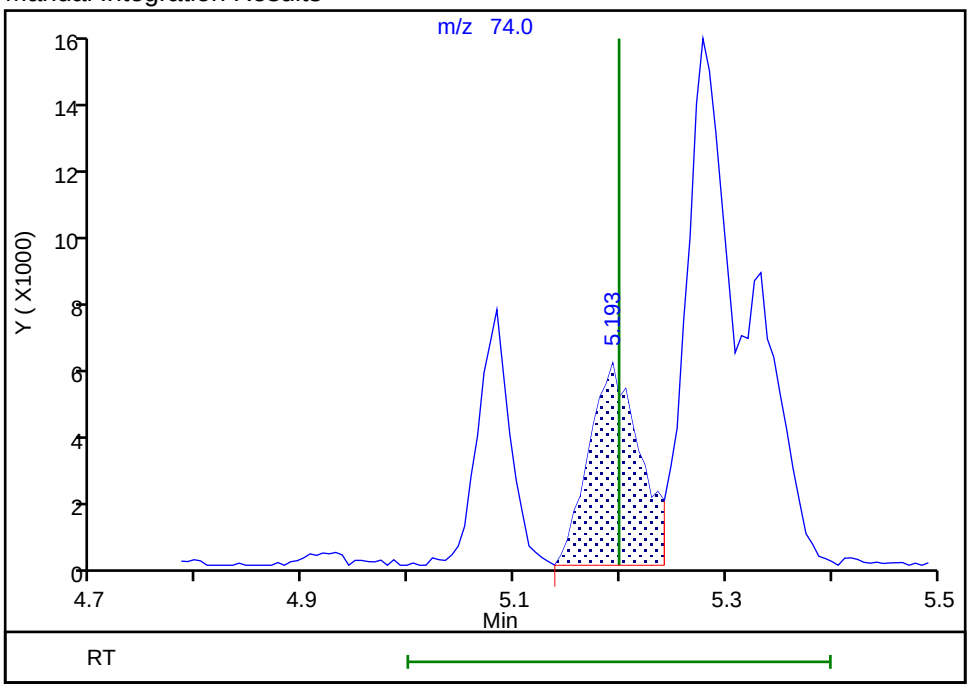
Processing Integration Results

RT: 5.08
Area: 15749
Amount: 1241.8710
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 19987
Amount: 1151.7168
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jul-2018 03:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074947-007
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:13 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:57:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	607536	200.0	222.3	
2 Dichlorodifluoromethane	85	1.632	1.639	-0.007	99	1286845	200.0	226.2	
3 Chloromethane	50	1.821	1.822	-0.001	99	1010119	200.0	215.9	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	1044128	200.0	217.3	
5 Butadiene	54	1.919	1.919	0.000	95	833795	200.0	218.3	
6 Bromomethane	94	2.212	2.218	-0.006	99	902516	200.0	205.5	
7 Chloroethane	64	2.279	2.273	0.006	100	549048	200.0	211.8	
8 Trichlorofluoromethane	101	2.455	2.462	-0.007	98	1674031	200.0	220.0	
9 Dichlorofluoromethane	67	2.461	2.462	-0.001	98	1599349	200.0	221.6	
10 Pentane	72	2.492	2.504	-0.012	96	227930	400.0	453.0	
11 Ethyl ether	59	2.693	2.699	-0.006	92	420279	200.0	189.5	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	94	468066	200.0	196.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	83	777768	200.0	207.5	
12 Ethanol	46	2.699	2.754	-0.055	62	115315	8000.0	8635.5	
15 Acrolein	56	2.876	2.882	-0.006	94	167756	500.0	485.2	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	714314	200.0	193.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.019	95	837057	200.0	206.9	
18 Acetone	43	2.998	3.004	-0.006	86	842718	1000.0	962.8	
19 Iodomethane	142	3.071	3.083	-0.012	98	1747261	200.0	197.1	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	478640	2000.0	2143.2	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	2399859	200.0	200.9	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	428768	200.0	200.4	
23 Methyl acetate	43	3.242	3.254	-0.012	96	689720	400.0	410.1	
24 Cyclopentene	67	3.260	3.266	-0.006	93	1439985	200.0	200.6	
29 Acetonitrile	41	3.309	3.321	-0.012	96	791685	2000.0	1886.1	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	772369	200.0	186.5	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	325513	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	98	930632	2000.0	1927.4	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	95	2057279	200.0	195.6	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	776878	200.0	195.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	1931080	2000.0	2001.6	
32 Hexane	43	3.711	3.717	-0.006	90	460117	200.0	204.3	
33 Isopropyl ether	45	3.925	3.925	0.000	94	1659263	200.0	197.7	
35 Vinyl acetate	86	3.973	3.974	-0.001	99	254633	400.0	403.4	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	72	1150773	200.0	196.7	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	648116	200.0	199.7	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	1896772	200.0	192.8	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	214251	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	94	370450	200.0	198.6	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	900467	200.0	190.8	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	378071	1000.0	948.0	
41 Ethyl acetate	70	4.498	4.504	-0.006	94	133642	400.0	423.6	
44 Methyl acrylate	55	4.559	4.559	0.000	98	471496	200.0	203.6	
43 Propionitrile	54	4.638	4.644	-0.006	97	802779	2000.0	1986.7	
45 Tetrahydrofuran	72	4.723	4.723	0.000	83	179889	400.0	393.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	67	509139	200.0	191.9	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	2435931	2000.0	2016.8	
48 Chloroform	83	4.778	4.778	0.000	99	1390169	200.0	195.1	
49 Cyclohexane	84	4.918	4.925	-0.007	86	1114906	200.0	213.2	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.007	97	1360855	200.0	199.3	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	188726	50.0	48.4	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	1224185	200.0	202.1	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	966910	200.0	199.6	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	98909	5000.0	5340.5	
54 Benzene	78	5.284	5.284	0.000	95	2855529	200.0	199.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	186761	50.0	51.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	1843436	200.0	204.1	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	700029	200.0	197.6	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	962696	200.0	189.7	
60 n-Heptane	57	5.424	5.424	0.000	85	527709	200.0	200.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	566899	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	530638	5000.0	5384.4	
63 Trichloroethene	95	5.930	5.930	0.000	94	825738	200.0	205.1	
65 Methylcyclohexane	83	6.058	6.058	0.000	92	1374050	200.0	207.7	
64 Ethyl acrylate	56	6.052	6.065	-0.013	98	381762	200.0	187.0	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	88	616377	200.0	200.1	
* 67 1,4-Dioxane-d8	96	6.284	6.272	0.012	0	28829	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	825729	400.0	430.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	96	722807	200.0	205.2	
69 1,4-Dioxane	88	6.339	6.327	0.012	28	181733	4000.0	4231.4	
71 Dibromomethane	93	6.357	6.351	0.006	89	509861	200.0	195.0	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	1025706	200.0	203.0	
73 2-Chloroethyl vinyl ether	63	6.826	6.827	-0.001	87	336535	200.0	204.4	
74 2-Nitropropane	41	6.833	6.833	0.000	93	257855	400.0	399.7	
75 Epichlorohydrin	57	6.948	6.942	0.006	99	1180824	4000.0	4193.5	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	1124267	200.0	205.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	2699838	1000.0	1031.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	662068	50.0	50.0	
79 Toluene	91	7.332	7.333	-0.001	93	3319799	200.0	199.1	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	1012794	200.0	203.7	
81 Ethyl methacrylate	69	7.692	7.692	0.000	82	804595	200.0	203.2	
82 1,1,2-Trichloroethane	83	7.899	7.894	0.005	95	524975	200.0	204.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	96	1085505	200.0	198.1	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	933709	200.0	198.5	
85 2-Hexanone	43	8.155	8.156	-0.001	94	1718735	1000.0	1025.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	740660	200.0	194.4	
87 Chlorodibromomethane	129	8.351	8.345	0.006	98	857879	200.0	212.0	
88 Ethylene Dibromide	107	8.515	8.509	0.006	99	723392	200.0	201.2	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	498452	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	2346554	200.0	199.8	
92 Ethylbenzene	106	9.186	9.186	0.000	97	1268542	200.0	199.8	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	990217	200.0	203.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	1561340	200.0	200.0	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	475456	200.0	201.3	
95 o-Xylene	106	9.802	9.802	0.000	95	1634374	200.0	199.4	
96 Styrene	104	9.832	9.832	0.000	96	2594673	200.0	207.0	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	914505	200.0	208.3	
98 Bromoform	173	10.070	10.070	0.000	98	565141	200.0	206.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	4358252	200.0	205.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	262659	50.0	49.1	
101 Bromobenzene	156	10.545	10.545	0.000	83	1231290	200.0	203.6	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	886776	200.0	206.0	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	4624829	200.0	207.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	277760	200.0	205.8	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	203418	200.0	203.4	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	3183461	200.0	204.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	4093676	200.0	201.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	3796493	200.0	213.3	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	2717604	200.0	209.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	1072625	200.0	213.2	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	3286057	200.0	217.2	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	3894089	200.0	209.5	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	4867383	200.0	213.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	4491019	200.0	210.9	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	2270831	200.0	197.7	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	90	310039	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	2272564	200.0	195.6	
118 Benzyl chloride	91	11.655	11.655	0.000	100	1862889	200.0	205.9	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	4044900	200.0	203.6	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	2422045	200.0	196.5	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	2078634	200.0	209.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	2339789	200.0	201.3	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	4456946	200.0	209.0	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	91	178584	200.0	201.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	2066725	200.0	194.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	1991589	200.0	197.1	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	1033478	200.0	209.0	
128 Naphthalene	128	13.319	13.319	0.000	99	4222543	200.0	200.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	1932351	200.0	198.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	385.8	
S 131 Xylenes, Total	100				0		400.0	399.5	
S 132 Total BTEX	1				0		1000.0	997.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	5.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

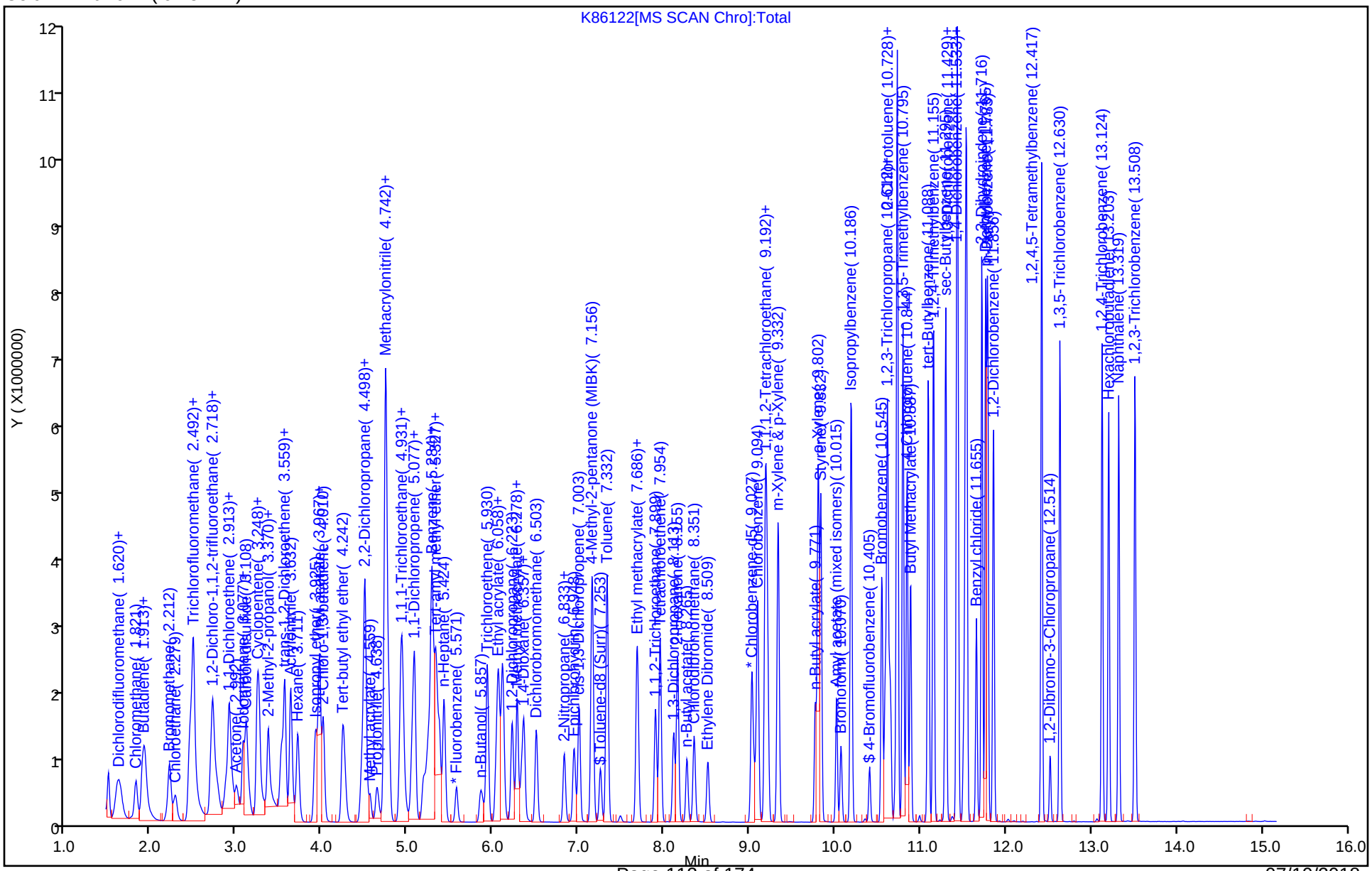
Report Date: 06-Jul-2018 18:59:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D

Injection Date:	06-Jul-2018 03:23:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

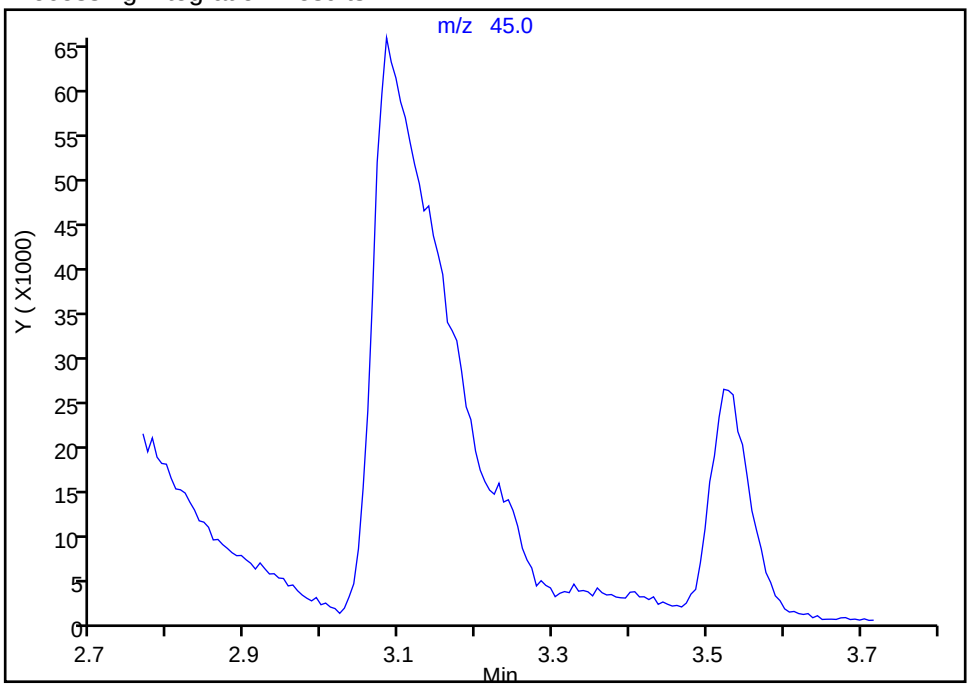
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

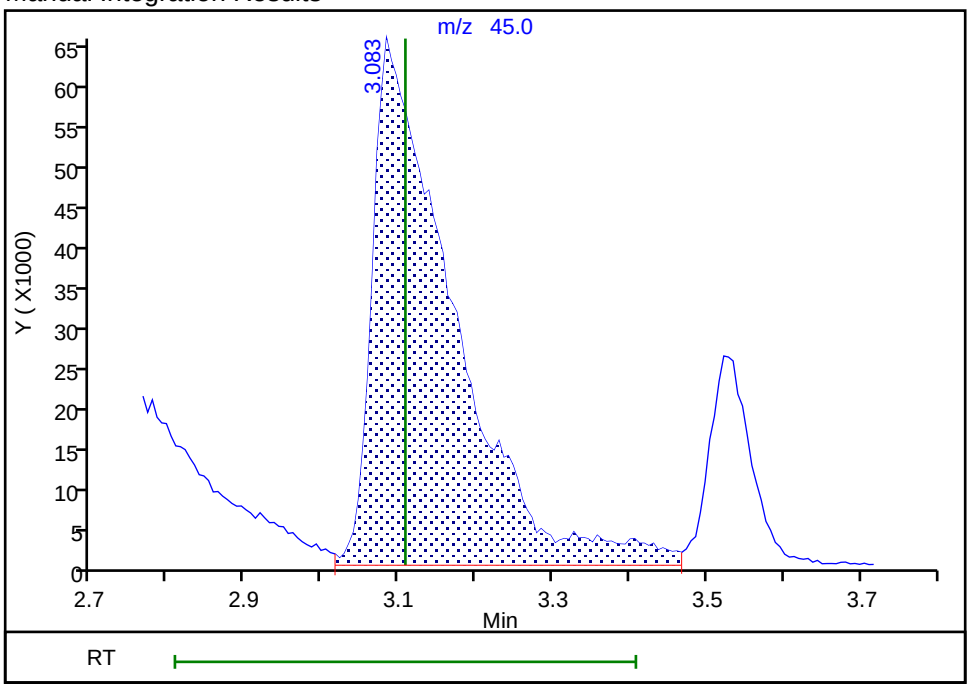
Not Detected
Expected RT: 3.11

Processing Integration Results



RT: 3.08
Area: 478640
Amount: 2143.2320
Amount Units: ug/l

Manual Integration Results



Reviewer: tupayachia, 06-Jul-2018 03:55:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

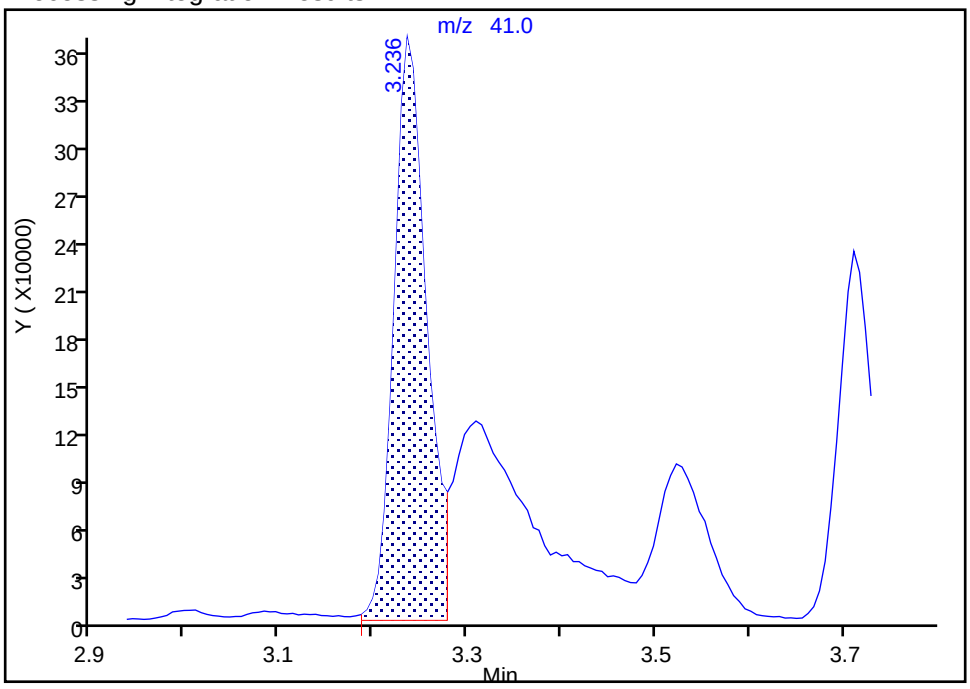
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

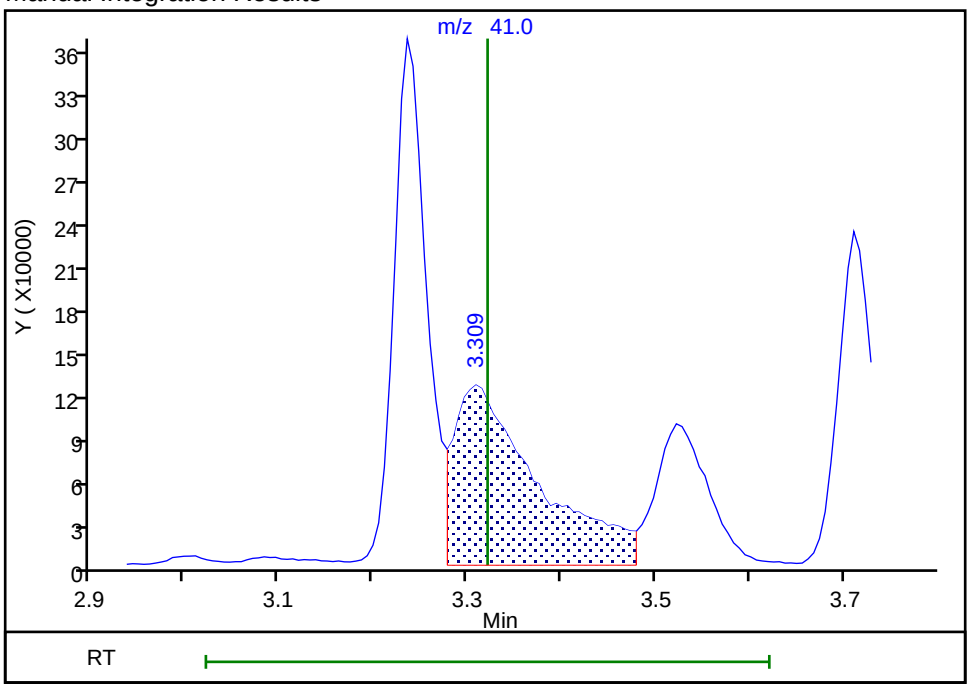
Processing Integration Results

RT: 3.24
Area: 897558
Amount: 2051.1972
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 791685
Amount: 1886.0881
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:56:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Jul-2018 03:48:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074947-008
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:25 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 04:10:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.608	-0.006	86	1581916	500.0	532.8	
2 Dichlorodifluoromethane	85	1.633	1.639	-0.006	99	3377692	500.0	546.4	
3 Chloromethane	50	1.822	1.822	0.000	99	2678351	500.0	526.8	
4 Vinyl chloride	62	1.913	1.913	0.000	98	2776562	500.0	531.9	
5 Butadiene	54	1.919	1.919	0.000	97	2267895	500.0	546.3	
6 Bromomethane	94	2.218	2.218	0.000	99	2295633	500.0	480.9	
7 Chloroethane	64	2.285	2.273	0.012	99	1443523	500.0	512.5	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	98	3643782	500.0	464.7	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	99	3928777	500.0	475.2	
10 Pentane	72	2.486	2.504	-0.018	95	544545	1000.0	985.3	
11 Ethyl ether	59	2.687	2.699	-0.012	93	1156540	500.0	480.0	
13 2-Methyl-1,3-butadiene	53	2.712	2.724	-0.012	96	1337127	500.0	516.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	90	2069978	500.0	508.3	
12 Ethanol	46	2.687	2.754	-0.067	91	320534	20000	21851	
15 Acrolein	56	2.876	2.882	-0.006	97	224402	600.0	590.8	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	1952859	500.0	488.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.018	95	2235757	500.0	508.5	
18 Acetone	43	2.992	3.004	-0.012	86	2274136	2500.0	2242.4	
19 Iodomethane	142	3.071	3.083	-0.012	98	4617815	500.0	479.3	
22 Isopropyl alcohol	45	3.077	3.108	-0.031	96	1302896	5000.0	5310.8	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	6537358	500.0	503.7	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	1202538	500.0	517.3	
23 Methyl acetate	43	3.242	3.254	-0.012	97	1895329	1000.0	1025.7	
24 Cyclopentene	67	3.260	3.266	-0.006	92	3958854	500.0	507.5	
29 Acetonitrile	41	3.303	3.321	-0.018	97	2106672	5000.0	4568.8	a
26 Methylene Chloride	84	3.364	3.370	-0.006	83	2074080	500.0	460.9	
* 25 TBA-d9 (IS)	65	3.352	3.376	-0.024	0	357583	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.419	3.437	-0.018	94	2492265	5000.0	4698.6	
28 Methyl tert-butyl ether	73	3.522	3.529	-0.006	95	5364126	500.0	469.5	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	90	2061170	500.0	476.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	5224689	5000.0	4984.0	
32 Hexane	43	3.711	3.717	-0.006	90	1270133	500.0	519.1	
33 Isopropyl ether	45	3.919	3.925	-0.006	93	4533607	500.0	497.1	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	71	3056763	500.0	480.9	
35 Vinyl acetate	86	3.967	3.974	-0.007	99	671562	1000.0	968.5	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	1754438	500.0	497.4	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	5133710	500.0	480.2	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	248248	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	964832	500.0	476.1	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	2362856	500.0	460.8	
41 Ethyl acetate	70	4.498	4.504	-0.006	95	367753	1000.0	972.7	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	98	1014737	2500.0	2195.9	
44 Methyl acrylate	55	4.559	4.559	0.000	99	1312106	500.0	521.5	
43 Propionitrile	54	4.638	4.644	-0.006	97	2193917	5000.0	4942.5	
45 Tetrahydrofuran	72	4.723	4.723	0.000	86	475618	1000.0	897.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	73	1322454	500.0	458.7	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	6585300	5000.0	5017.7	
48 Chloroform	83	4.778	4.778	0.000	99	3664152	500.0	473.1	
49 Cyclohexane	84	4.925	4.925	0.000	87	2931920	500.0	516.0	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	206030	50.0	48.6	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	97	3582611	500.0	482.8	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	98	3301487	500.0	501.6	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	95	2569628	500.0	488.2	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	259572	12500	12758	a
54 Benzene	78	5.284	5.284	0.000	95	7522135	500.0	466.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	218675	50.0	55.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	5312631	500.0	541.3	
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	93	1860834	500.0	483.5	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	2598734	500.0	471.2	
60 n-Heptane	57	5.424	5.424	0.000	86	1505522	500.0	527.3	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	615992	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	1508710	12500	13936	
63 Trichloroethene	95	5.930	5.930	0.000	95	2223117	500.0	508.3	
65 Methylcyclohexane	83	6.059	6.058	0.000	90	3596894	500.0	500.5	
64 Ethyl acrylate	56	6.059	6.065	-0.007	98	1042735	500.0	470.1	a
66 1,2-Dichloropropane	63	6.223	6.223	0.000	88	1678479	500.0	501.5	
* 67 1,4-Dioxane-d8	96	6.229	6.272	-0.043	0	34504	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	80	2269442	1000.0	1089.4	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	469341	10000	9130.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	2044198	500.0	534.1	
71 Dibromomethane	93	6.357	6.351	0.006	89	1378497	500.0	485.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	2824018	500.0	514.3	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	89	963542	500.0	538.7	
74 2-Nitropropane	41	6.833	6.833	0.000	92	804088	1000.0	1147.0	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	3270235	10000	10023	
76 cis-1,3-Dichloropropene	75	7.010	7.003	0.007	91	3108588	500.0	504.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	7187745	2500.0	2368.9	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	740216	50.0	49.7	
79 Toluene	91	7.333	7.333	0.000	93	8910383	500.0	474.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	2858319	500.0	510.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	83	2198043	500.0	493.0	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	1444634	500.0	500.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	2911873	500.0	471.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	2615165	500.0	493.6	
85 2-Hexanone	43	8.156	8.156	0.000	93	4723504	2500.0	2432.9	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	2083090	500.0	485.6	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	2446176	500.0	536.8	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	1987867	500.0	491.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	561314	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	6383930	500.0	482.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	3389025	500.0	474.0	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	2663401	500.0	485.0	
93 m-Xylene & p-Xylene	106	9.338	9.332	0.006	0	4161018	500.0	473.4	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	1285099	500.0	483.2	
95 o-Xylene	106	9.802	9.802	0.000	95	4319691	500.0	468.1	
96 Styrene	104	9.838	9.832	0.006	96	6963830	500.0	493.3	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	2524491	500.0	526.0	
98 Bromoform	173	10.070	10.070	0.000	98	1637292	500.0	531.5	
99 Isopropylbenzene	105	10.192	10.186	0.006	95	11396490	500.0	476.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	290767	50.0	48.2	
101 Bromobenzene	156	10.552	10.545	0.007	84	3250676	500.0	491.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	2360354	500.0	501.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	12091924	500.0	495.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	735701	500.0	498.5	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	550467	500.0	503.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	10765115	500.0	484.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	8468683	500.0	497.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	9964542	500.0	512.1	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	7275181	500.0	512.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	2894862	500.0	526.1	
111 tert-Butylbenzene	119	11.094	11.088	0.006	94	8734687	500.0	528.0	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	10176278	500.0	500.8	a
113 sec-Butylbenzene	105	11.295	11.295	0.000	98	12624955	500.0	506.5	e
114 4-Isopropyltoluene	119	11.429	11.423	0.006	97	11570143	500.0	496.9	
115 1,3-Dichlorobenzene	146	11.442	11.435	0.007	98	5842995	500.0	465.3	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	93	338998	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	5870913	500.0	462.1	
118 Benzyl chloride	91	11.655	11.655	0.000	100	4948561	500.0	500.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	10530920	500.0	484.8	
120 p-Diethylbenzene	119	11.765	11.759	0.006	94	6303088	500.0	467.8	a
121 n-Butylbenzene	92	11.789	11.783	0.006	97	5376664	500.0	495.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	6064086	500.0	477.2	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	11374803	500.0	487.9	e
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	92	483065	500.0	498.2	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	5298224	500.0	456.1	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	4989907	500.0	451.6	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	2703860	500.0	500.0	
128 Naphthalene	128	13.319	13.319	0.000	99	10757429	500.0	466.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	4868780	500.0	456.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	937.0	
S 131 Xylenes, Total	100				0		1000.0	941.5	
S 132 Total BTEX	1				0		2500.0	2356.1	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	6.00	Units: uL	
GASES Li_00267	Amount Added:	50.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	50.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

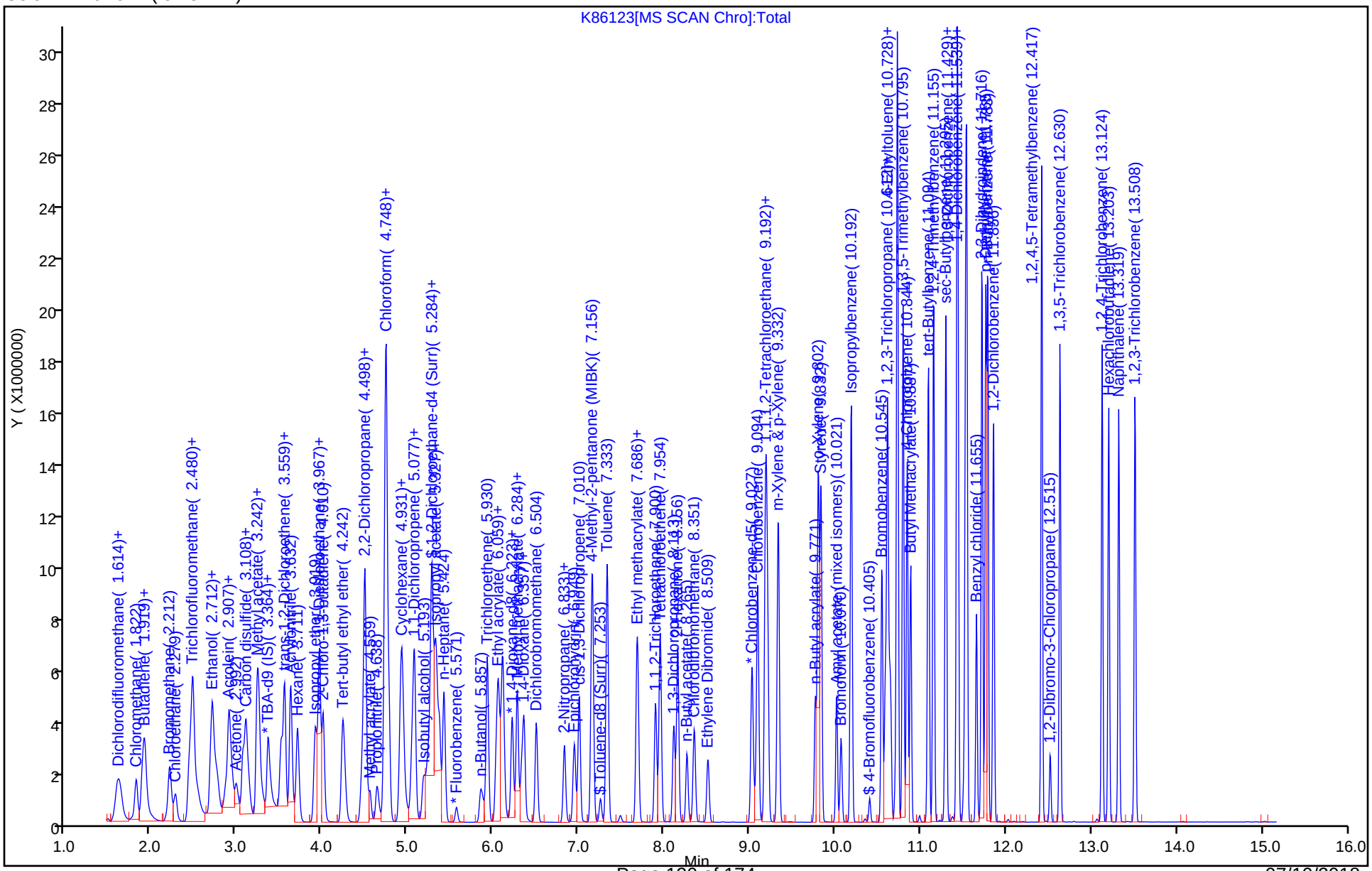
Report Date: 06-Jul-2018 18:59:28 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Injection Date:	06-Jul-2018 03:48:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

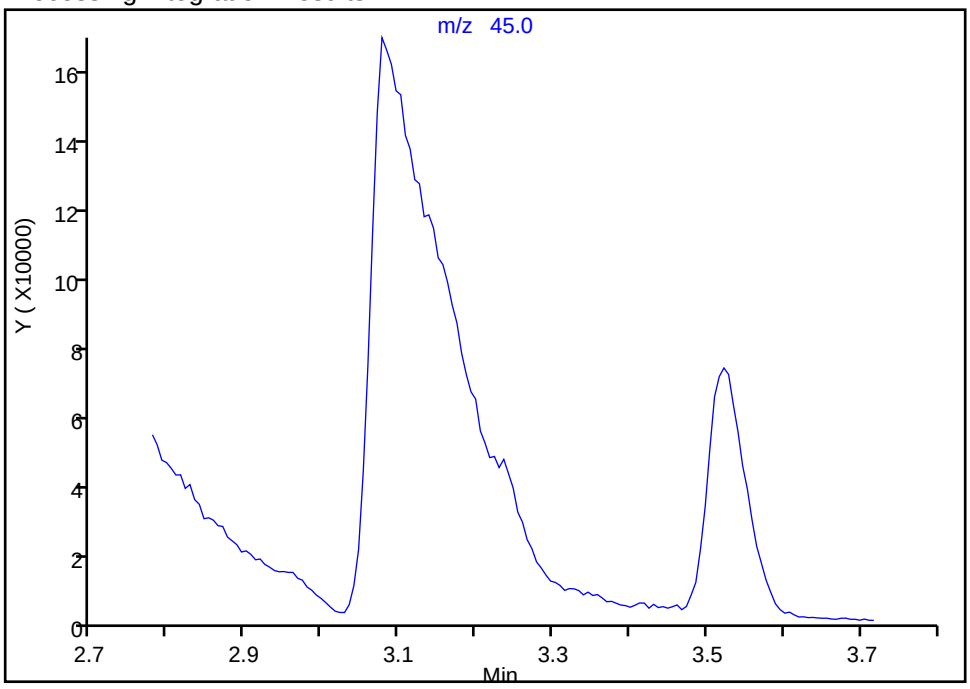
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

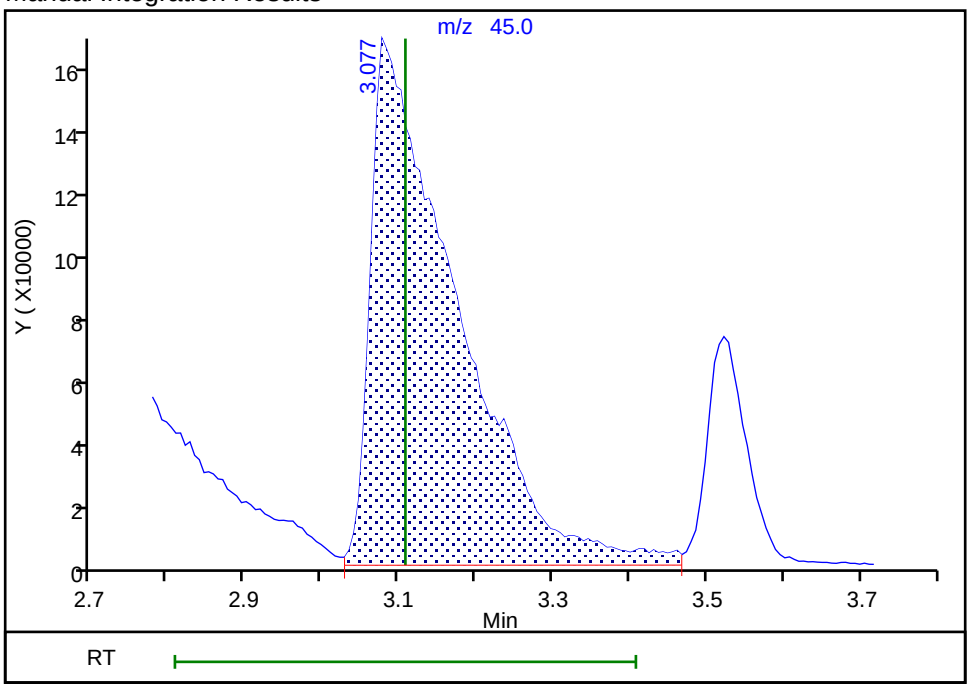
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 1302896
Amount: 5310.8179
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

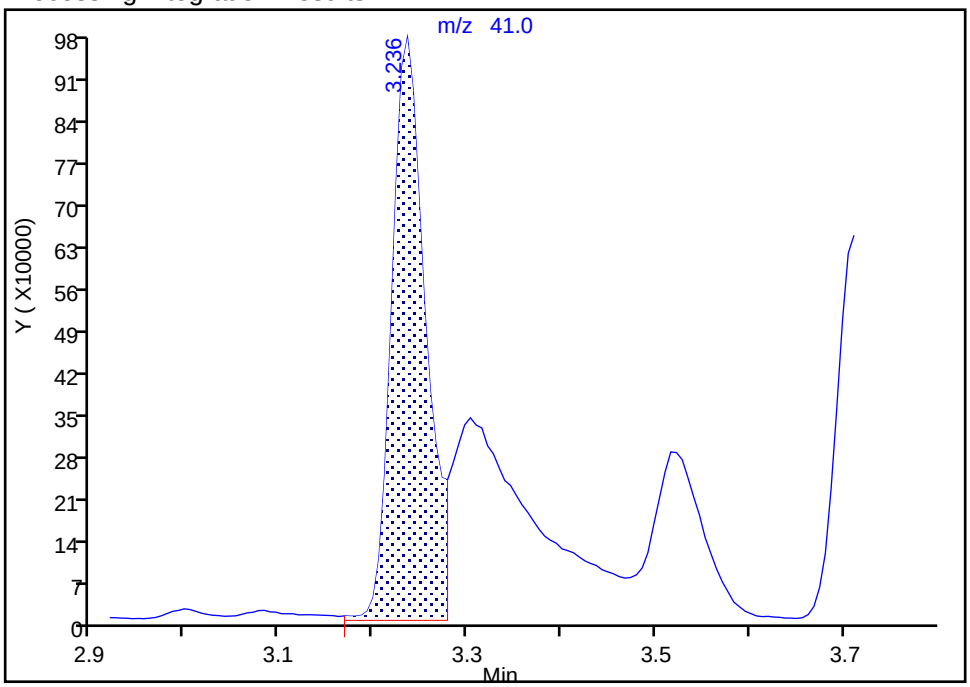
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

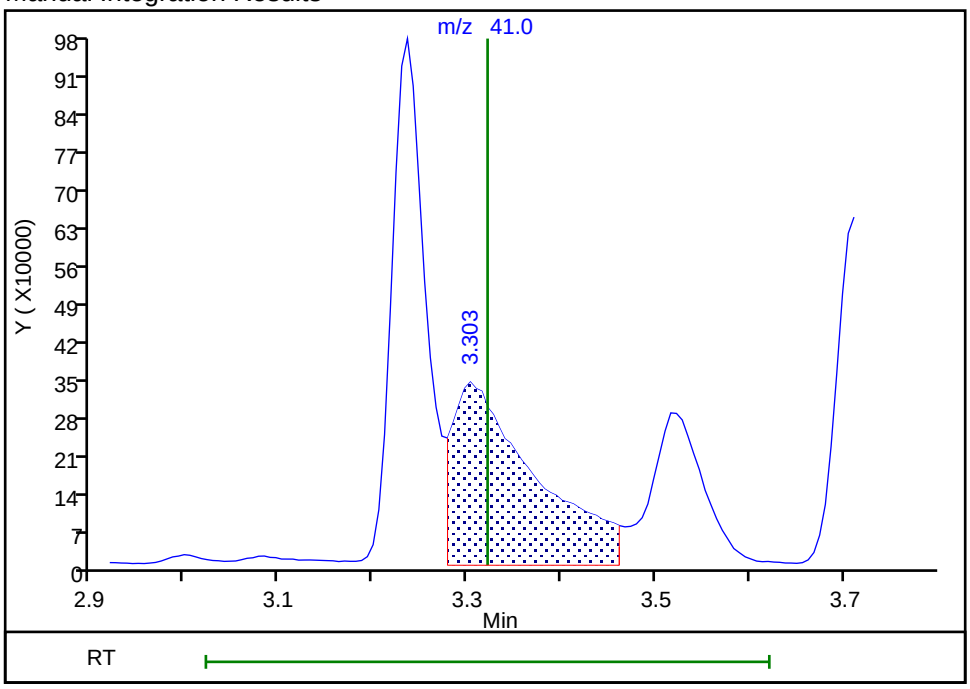
Processing Integration Results

RT: 3.24
Area: 2481153
Amount: 5239.0672
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 2106672
Amount: 4568.7559
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

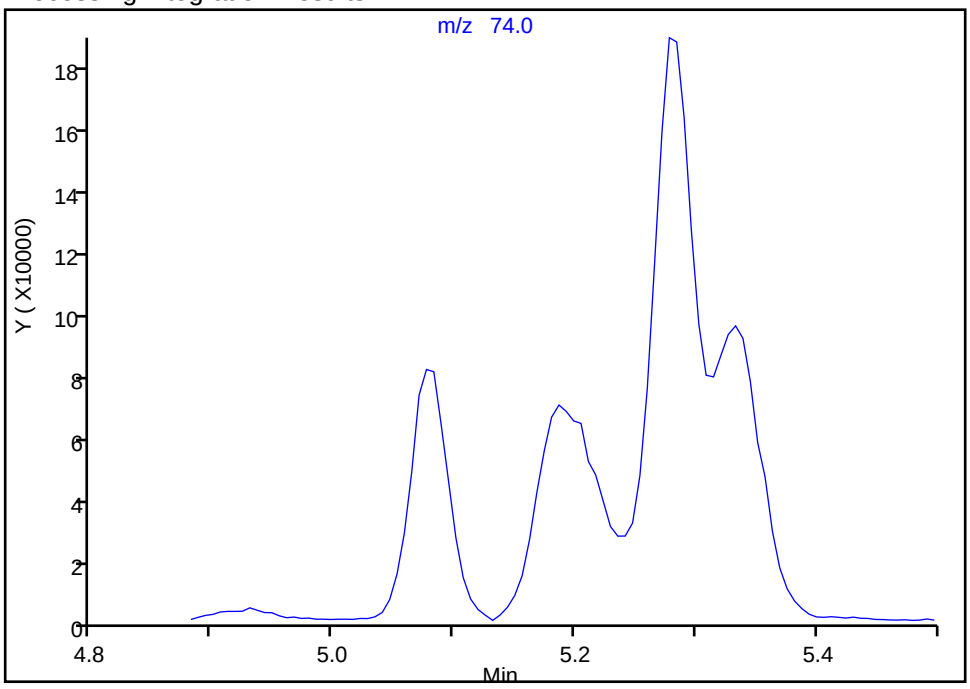
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

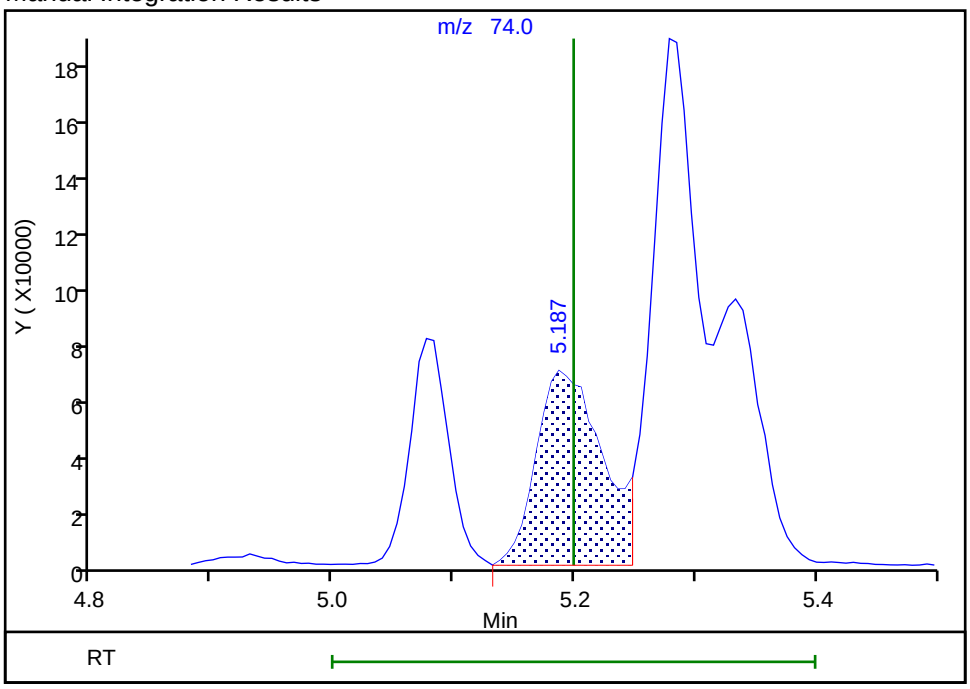
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 259572
Amount: 12758
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

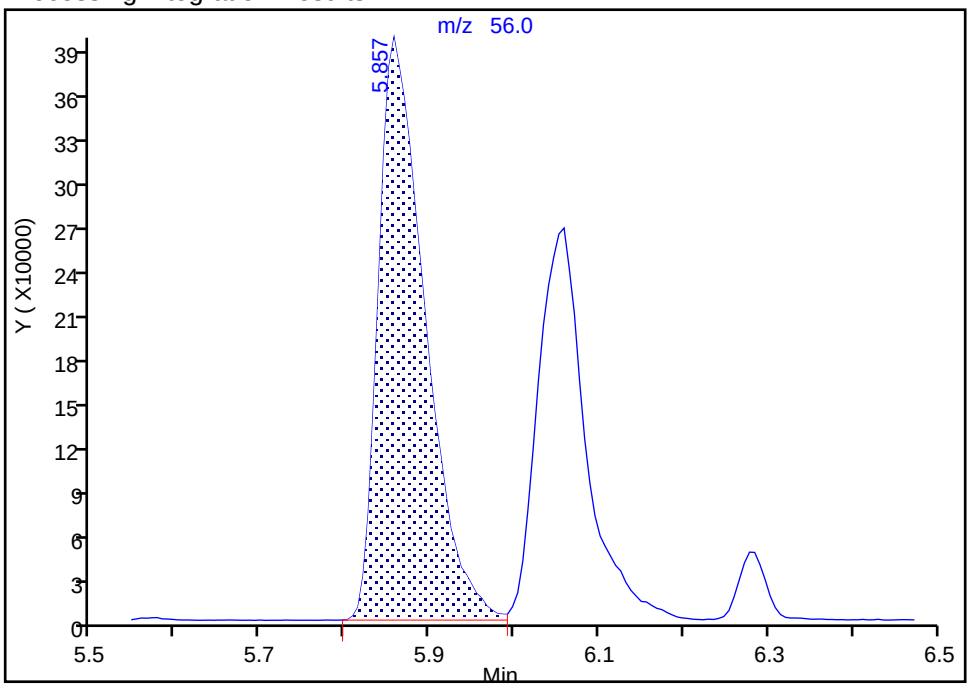
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

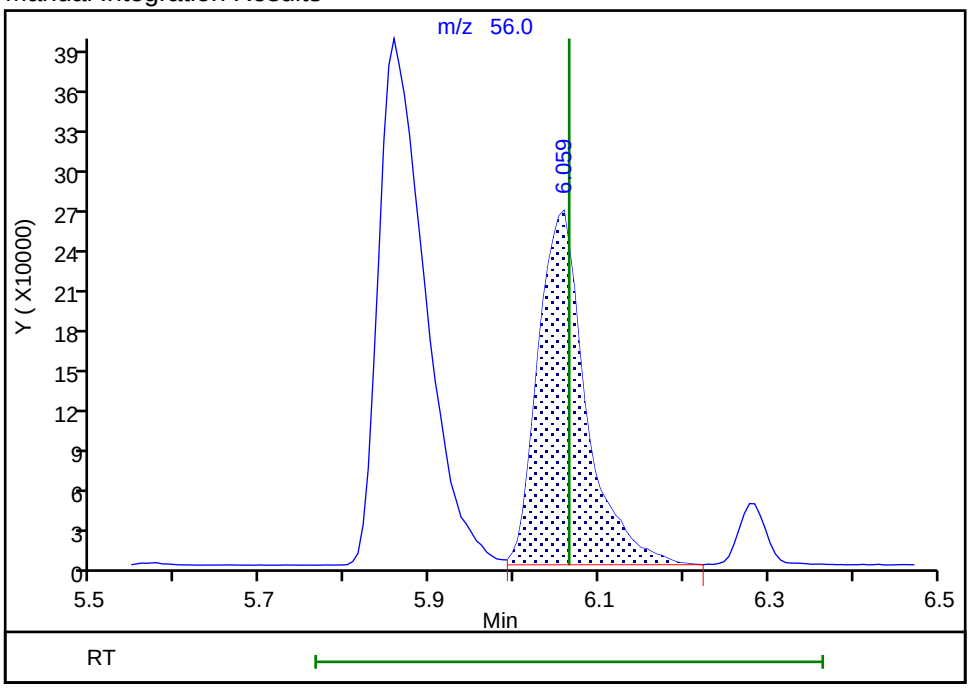
Processing Integration Results

RT: 5.86
Area: 1506483
Amount: 634.9530
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 1042735
Amount: 470.1225
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

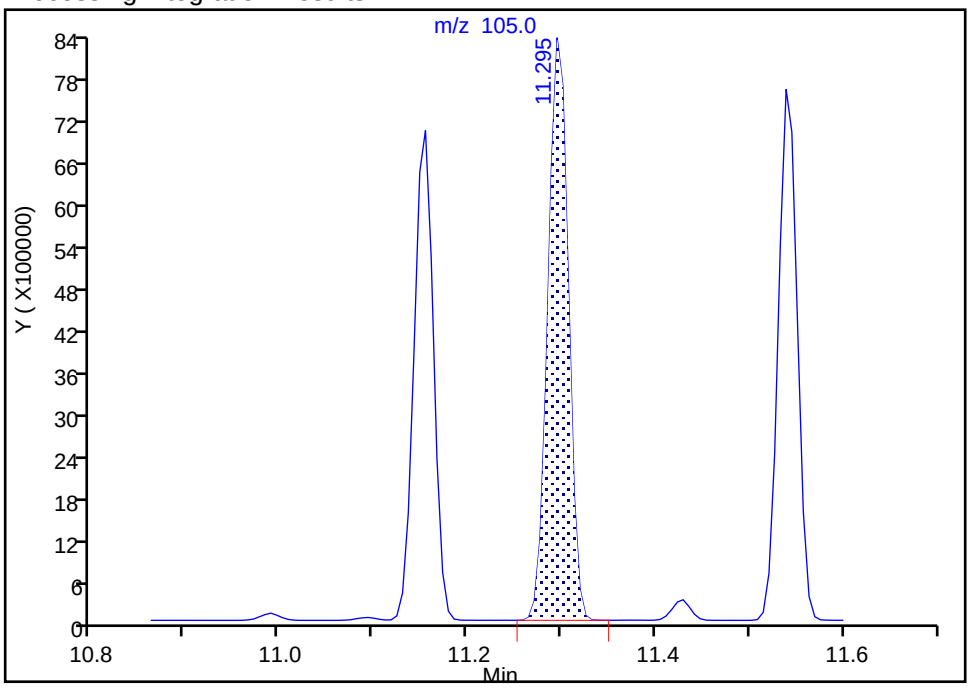
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

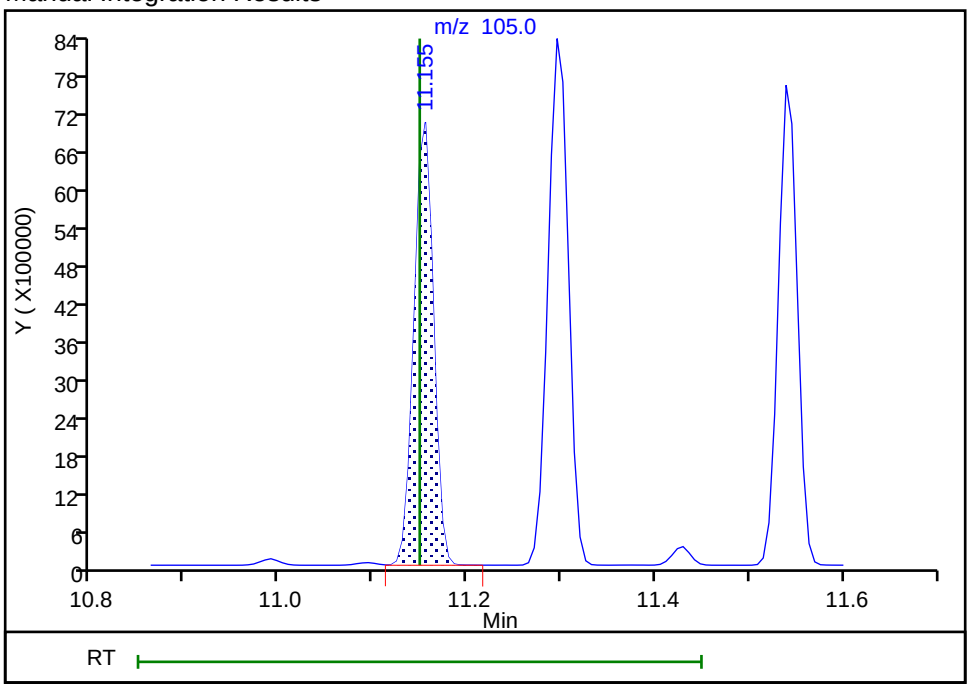
Processing Integration Results

RT: 11.30
Area: 12658181
Amount: 598.5886
Amount Units: ug/l



Manual Integration Results

RT: 11.16
Area: 10176278
Amount: 500.8156
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

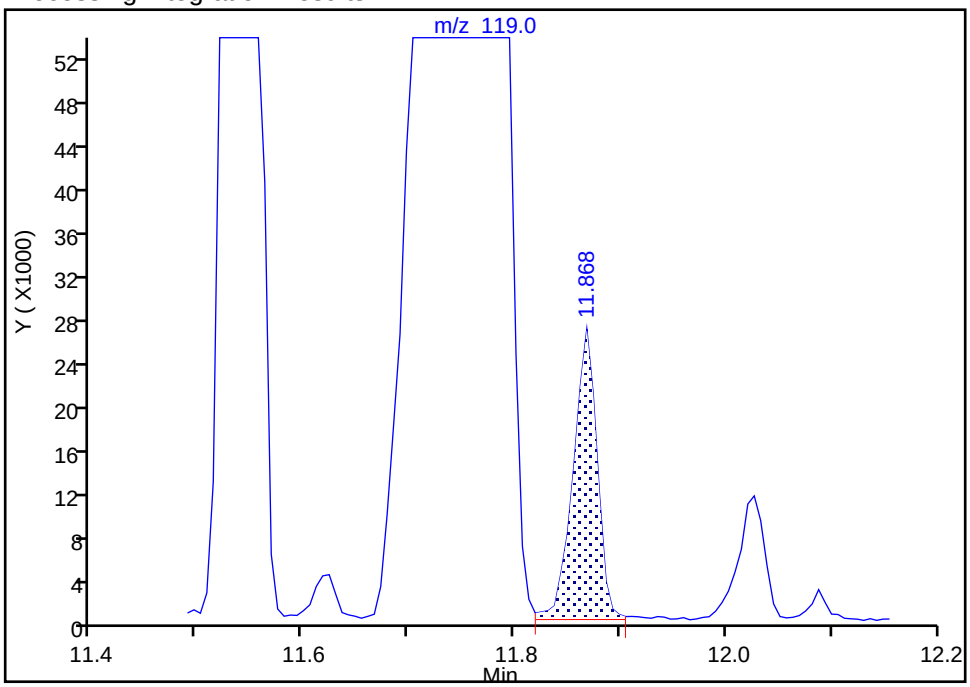
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

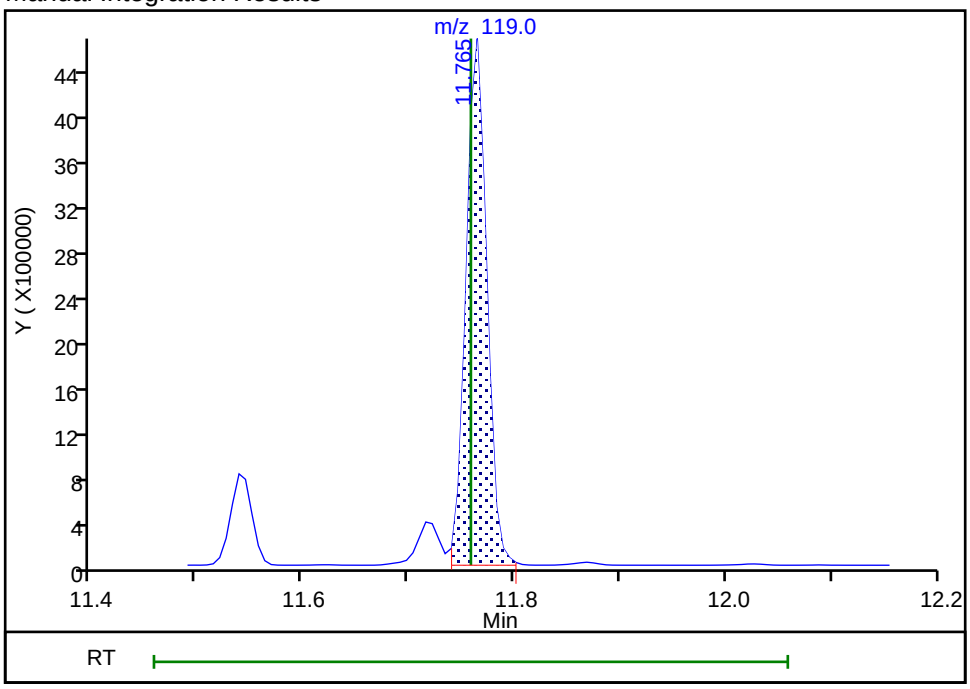
Processing Integration Results

RT: 11.87
Area: 41938
Amount: 6.632357
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 6303088
Amount: 467.7764
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab Sample ID: CCVIS 460-534882/2 Calibration Date: 07/10/2018 08:23

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86356.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2410	0.2225		18.5	20.0	-7.7	20.0
Dichlorodifluoromethane	Ave	0.5018	0.4556	0.1000	18.2	20.0	-9.2	20.0
Chloromethane	Ave	0.4127	0.4057	0.1000	19.7	20.0	-1.7	20.0
Vinyl chloride	Ave	0.4237	0.4235	0.1000	20.0	20.0	-0.0	20.0
Butadiene	Ave	0.3369	0.3523		20.9	20.0	4.6	20.0
Bromomethane	Ave	0.3874	0.3341	0.1000	17.2	20.0	-13.8	50.0
Chloroethane	Ave	0.2286	0.2215	0.1000	19.4	20.0	-3.1	50.0
Trichlorofluoromethane	Ave	0.6711	0.5778	0.1000	17.2	20.0	-13.9	20.0
Dichlorofluoromethane	Ave	0.6365	0.6041		19.0	20.0	-5.1	20.0
Pentane	Ave	1.546	1.366		35.4	40.0	-11.6	20.0
Ethanol	Ave	0.0410	0.0422		823	800	2.8	50.0
Ethyl ether	Ave	0.1956	0.2294		23.5	20.0	17.3	20.0
2-Methyl-1,3-butadiene	Ave	0.2101	0.2615		24.9	20.0	24.4*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3305	0.3800		23.0	20.0	15.0	20.0
Acrolein	Ave	1.062	0.8045		227	300	-24.3	50.0
1,1-Dichloroethene	Ave	0.3248	0.3544	0.1000	21.8	20.0	9.1	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3569	0.4265	0.1000	23.9	20.0	19.5	20.0
Acetone	Ave	1.021	0.9448	0.0500	92.5	100	-7.5	50.0
Iodomethane	Ave	0.7820	0.7895		20.2	20.0	0.9	20.0
Isopropyl alcohol	Ave	0.6861	0.7270		212	200	6.0	50.0
Carbon disulfide	Ave	1.053	1.192	0.1000	22.6	20.0	13.2	50.0
Allyl chloride	Ave	0.1887	0.2167		23.0	20.0	14.9	20.0
Methyl acetate	Ave	5.167	5.431	0.1000	42.0	40.0	5.1	20.0
Cyclopentene	Ave	0.6331	0.8182		25.8	20.0	29.2*	20.0
Acetonitrile	Ave	1.290	1.285		199	200	-0.4	20.0
Methylene Chloride	Ave	0.3653	0.3899	0.1000	21.3	20.0	6.7	20.0
2-Methyl-2-propanol	Ave	1.483	1.327		179	200	-10.5	50.0
Methyl tert-butyl ether	Ave	0.9275	0.9865	0.1000	21.3	20.0	6.4	20.0
trans-1,2-Dichloroethene	Ave	0.3514	0.3851	0.1000	21.9	20.0	9.6	20.0
Acrylonitrile	Ave	0.0851	0.1084		255	200	27.4*	20.0
Hexane	Ave	0.1986	0.2710		27.3	20.0	36.4*	20.0
Isopropyl ether	Ave	0.7403	0.9555		25.8	20.0	29.1*	20.0
1,1-Dichloroethane	Ave	0.5159	0.5998	0.2000	23.3	20.0	16.3	20.0
Vinyl acetate	Ave	1.939	1.572		32.4	40.0	-18.9	20.0
2-Chloro-1,3-butadiene	Ave	0.2863	0.3235		22.6	20.0	13.0	20.0
Tert-butyl ethyl ether	Ave	0.8678	0.9825		22.6	20.0	13.2	20.0
2,2-Dichloropropane	Ave	0.1645	0.1767		21.5	20.0	7.4	20.0
2-Butanone (MEK)	Ave	0.4654	0.3774	0.0500	81.1	100	-18.9	50.0
cis-1,2-Dichloroethene	Ave	0.4162	0.4334	0.1000	20.8	20.0	4.1	20.0
Ethyl acetate	Qua2		0.3159		33.6	40.0	-15.9	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab Sample ID: CCVIS 460-534882/2 Calibration Date: 07/10/2018 08:23

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86356.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2042	0.2347		23.0	20.0	14.9	20.0
Propionitrile	Ave	1.241	1.164		188	200	-6.2	20.0
Chlorobromomethane	Ave	0.2340	0.2306		19.7	20.0	-1.5	20.0
Tetrahydrofuran	Ave	0.5339	0.4559		34.2	40.0	-14.6	20.0
Methacrylonitrile	Ave	0.1065	0.1248		234	200	17.1	20.0
Chloroform	Ave	0.6286	0.6517	0.2000	20.7	20.0	3.7	20.0
Cyclohexane	Ave	0.4612	0.5743	0.1000	24.9	20.0	24.5	50.0
1,1,1-Trichloroethane	Ave	0.6023	0.6222	0.1000	20.7	20.0	3.3	20.0
Carbon tetrachloride	Ave	0.5343	0.5353	0.1000	20.0	20.0	0.2	20.0
1,1-Dichloropropene	Ave	0.4272	0.4782		22.4	20.0	11.9	20.0
Isobutyl alcohol	Ave	0.0569	0.0553		486	500	-2.9	50.0
Benzene	Ave	1.438	1.613	0.5000	22.4	20.0	12.2	20.0
Isopropyl acetate	Ave	0.7967	0.8725		21.9	20.0	9.5	20.0
Tert-amyl methyl ether	Ave	0.3124	0.3226		20.7	20.0	3.3	20.0
1,2-Dichloroethane	Ave	0.4476	0.4331	0.1000	19.4	20.0	-3.2	20.0
n-Heptane	Ave	0.2317	0.2949		25.5	20.0	27.3*	20.0
n-Butanol	Ave	0.3028	0.2786		460	500	-8.0	50.0
Trichloroethene	Ave	0.3550	0.3713	0.2000	20.9	20.0	4.6	20.0
Ethyl acrylate	Ave	0.1800	0.1954		21.7	20.0	8.5	20.0
Methylcyclohexane	Ave	0.5834	0.6848	0.1000	23.5	20.0	17.4	50.0
1,2-Dichloropropane	Ave	0.2717	0.3106	0.1000	22.9	20.0	14.3	20.0
Methyl methacrylate	Ave	0.1691	0.1841		43.5	40.0	8.8	20.0
1,4-Dioxane	Ave	1.490	1.336		359	400	-10.3	50.0
n-Propyl acetate	Ave	0.3107	0.3620		23.3	20.0	16.5	20.0
Dibromomethane	Ave	0.2306	0.2264		19.6	20.0	-1.8	20.0
Bromodichloromethane	Ave	0.4457	0.4301	0.2000	19.3	20.0	-3.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1452	0.1569		21.6	20.0	8.1	20.0
2-Nitropropane	Ave	0.0569	0.0485		34.1	40.0	-14.8	20.0
Epichlorohydrin	Ave	0.3286	0.2895		352	400	-11.9	20.0
cis-1,3-Dichloropropene	Ave	0.5487	0.5760	0.2000	21.0	20.0	5.0	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.056	2.847	0.0500	93.2	100	-6.8	50.0
Toluene	Ave	1.672	1.736	0.4000	20.8	20.0	3.8	20.0
trans-1,3-Dichloropropene	Ave	0.4988	0.5139	0.1000	20.6	20.0	3.0	50.0
Ethyl methacrylate	Ave	0.3971	0.4146		20.9	20.0	4.4	20.0
1,1,2-Trichloroethane	Ave	0.2573	0.2785	0.1000	21.7	20.0	8.3	20.0
Tetrachloroethene	Ave	0.5497	0.5334	0.2000	19.4	20.0	-3.0	20.0
1,3-Dichloropropane	Ave	0.4719	0.5031		21.3	20.0	6.6	20.0
2-Hexanone	Ave	1.955	1.786	0.0500	91.4	100	-8.6	50.0
n-Butyl acetate	Ave	0.3821	0.4651		24.3	20.0	21.7*	20.0
Dibromochloromethane	Ave	0.4059	0.3742	0.1000	18.4	20.0	-7.8	50.0
1,2-Dibromoethane	Ave	0.3606	0.3571	0.1000	19.8	20.0	-1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Lab Sample ID: CCVIS 460-534882/2 Calibration Date: 07/10/2018 08:23

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86356.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.178	1.184	0.5000	20.1	20.0	0.5	20.0
Ethylbenzene	Ave	0.6370	0.6455	0.1000	20.3	20.0	1.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4892	0.4643		19.0	20.0	-5.1	20.0
m-Xylene & p-Xylene	Ave	0.7829	0.8043	0.1000	20.5	20.0	2.7	20.0
n-Butyl acrylate	Ave	0.2369	0.2738		23.1	20.0	15.6	20.0
o-Xylene	Ave	0.8220	0.8175	0.3000	19.9	20.0	-0.5	20.0
Styrene	Ave	1.258	1.324	0.3000	21.1	20.0	5.3	20.0
Bromoform	Ave	0.2744	0.2282	0.1000	16.6	20.0	-16.9	20.0
Isopropylbenzene	Ave	2.133	2.223	0.1000	20.8	20.0	4.2	20.0
Bromobenzene	Ave	0.9751	0.9281		19.0	20.0	-4.8	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6941	0.7653	0.3000	22.1	20.0	10.3	20.0
N-Propylbenzene	Ave	3.602	4.006		22.2	20.0	11.2	20.0
1,2,3-Trichloropropane	Ave	0.2177	0.2191		20.1	20.0	0.6	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1613	0.1689		20.9	20.0	4.7	20.0
2-Chlorotoluene	Ave	2.510	2.674		21.3	20.0	6.5	20.0
4-Ethyltoluene	Ave	3.277	3.540		21.6	20.0	8.0	20.0
1,3,5-Trimethylbenzene	Ave	2.870	3.013		21.0	20.0	5.0	20.0
4-Chlorotoluene	Ave	2.096	2.256		21.5	20.0	7.7	20.0
Butyl Methacrylate	Ave	0.8115	0.8695		21.4	20.0	7.1	20.0
tert-Butylbenzene	Ave	2.440	2.539		20.8	20.0	4.1	20.0
1,2,4-Trimethylbenzene	Ave	2.997	3.100		20.7	20.0	3.4	20.0
sec-Butylbenzene	Ave	3.676	4.058		22.1	20.0	10.4	20.0
4-Isopropyltoluene	Ave	3.434	3.615		21.1	20.0	5.3	20.0
1,3-Dichlorobenzene	Ave	1.852	1.854	0.6000	20.0	20.0	0.1	20.0
1,4-Dichlorobenzene	Ave	1.874	1.846	0.5000	19.7	20.0	-1.5	20.0
Benzyl chloride	Ave	1.459	1.575		21.6	20.0	8.0	50.0
Indan	Ave	3.204	3.268		20.4	20.0	2.0	20.0
p-Diethylbenzene	Ave	1.987	2.152		21.7	20.0	8.3	20.0
n-Butylbenzene	Ave	1.601	1.788		22.3	20.0	11.7	20.0
1,2-Dichlorobenzene	Ave	1.874	1.835	0.4000	19.6	20.0	-2.1	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.438	3.496		20.3	20.0	1.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1430	0.1340	0.0500	18.7	20.0	-6.3	50.0
1,3,5-Trichlorobenzene	Ave	1.713	1.710		20.0	20.0	-0.2	20.0
1,2,4-Trichlorobenzene	Ave	1.630	1.629	0.2000	20.0	20.0	-0.0	20.0
Hexachlorobutadiene	Ave	0.7975	0.7818		19.6	20.0	-2.0	20.0
Naphthalene	Ave	3.400	3.485		20.5	20.0	2.5	50.0
1,2,3-Trichlorobenzene	Ave	1.573	1.545		19.6	20.0	-1.8	20.0
Dibromofluoromethane (Surr)	Ave	0.3441	0.3469		50.4	50.0	0.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3197	0.3103		48.5	50.0	-2.9	20.0
Toluene-d8 (Surr)	Ave	1.328	1.356		51.0	50.0	2.1	20.0
4-Bromofluorobenzene	Ave	0.5371	0.5048		47.0	50.0	-6.0	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86356.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 08:23:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075170-002
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:51:27 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:46:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	88	56939	20.0	18.5	
2 Dichlorodifluoromethane	85	1.632	1.632	0.000	98	116571	20.0	18.2	
3 Chloromethane	50	1.815	1.815	0.000	99	103812	20.0	19.7	
4 Vinyl chloride	62	1.907	1.907	0.000	98	108365	20.0	20.0	
5 Butadiene	54	1.937	1.937	0.000	94	90130	20.0	20.9	
6 Bromomethane	94	2.212	2.212	0.000	98	85490	20.0	17.2	
7 Chloroethane	64	2.279	2.279	0.000	100	56660	20.0	19.4	
8 Trichlorofluoromethane	101	2.449	2.449	0.000	97	147837	20.0	17.2	
9 Dichlorofluoromethane	67	2.468	2.468	0.000	98	154559	20.0	19.0	
10 Pentane	72	2.498	2.498	0.000	96	25557	40.0	35.4	
12 Ethanol	46	2.693	2.693	0.000	82	15782	800.0	822.7	M
11 Ethyl ether	59	2.693	2.693	0.000	95	58690	20.0	23.5	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	96	66899	20.0	24.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	93	97229	20.0	23.0	
15 Acrolein	56	2.876	2.876	0.000	96	112859	300.0	227.2	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	96	90674	20.0	21.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	52	109119	20.0	23.9	
18 Acetone	43	3.004	3.004	0.000	87	117556	100.0	92.5	
19 Iodomethane	142	3.077	3.077	0.000	98	201985	20.0	20.2	
22 Isopropyl alcohol	45	3.096	3.096	0.000	30	67992	200.0	211.9	a
20 Carbon disulfide	76	3.114	3.114	0.000	99	305068	20.0	22.6	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	92	55447	20.0	23.0	
23 Methyl acetate	43	3.248	3.248	0.000	97	101580	40.0	42.0	
24 Cyclopentene	67	3.266	3.266	0.000	93	209330	20.0	25.8	
29 Acetonitrile	41	3.309	3.309	0.000	98	120155	200.0	199.3	a
* 25 TBA-d9 (IS)	65	3.358	3.358	0.000	0	467631	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	88	99754	20.0	21.3	
27 2-Methyl-2-propanol	59	3.425	3.425	0.000	92	124120	200.0	178.9	
28 Methyl tert-butyl ether	73	3.528	3.528	0.000	95	252405	20.0	21.3	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	91	98520	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.632	0.000	95	277305	200.0	254.7	
32 Hexane	43	3.717	3.717	0.000	93	69337	20.0	27.3	
33 Isopropyl ether	45	3.925	3.925	0.000	94	244475	20.0	25.8	
35 Vinyl acetate	86	3.973	3.973	0.000	99	29398	40.0	32.4	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	74	153458	20.0	23.3	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	90	82765	20.0	22.6	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	90	251386	20.0	22.6	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	311075	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	94	45217	20.0	21.5	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	92	110879	20.0	20.8	
41 Ethyl acetate	70	4.498	4.498	0.000	92	15724	40.0	33.6	
42 2-Butanone (MEK)	72	4.498	4.498	0.000	96	46956	100.0	81.1	
44 Methyl acrylate	55	4.559	4.559	0.000	98	60040	20.0	23.0	
43 Propionitrile	54	4.638	4.638	0.000	98	108896	200.0	187.6	
46 Chlorobromomethane	128	4.729	4.729	0.000	93	59007	20.0	19.7	
45 Tetrahydrofuran	72	4.729	4.729	0.000	60	22693	40.0	34.2	
47 Methacrylonitrile	67	4.742	4.742	0.000	91	319267	200.0	234.3	
48 Chloroform	83	4.778	4.778	0.000	98	166747	20.0	20.7	
49 Cyclohexane	84	4.924	4.924	0.000	87	146928	20.0	24.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	97	159200	20.0	20.7	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	221912	50.0	50.4	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	136971	20.0	20.0	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	98	122358	20.0	22.4	
56 Isobutyl alcohol	74	5.187	5.187	0.000	88	12918	500.0	485.5	
54 Benzene	78	5.284	5.284	0.000	96	347741	20.0	22.4	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	198468	50.0	48.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	97	223246	20.0	21.9	
58 Tert-amyl methyl ether	87	5.333	5.333	0.000	90	82540	20.0	20.7	
59 1,2-Dichloroethane	62	5.369	5.369	0.000	97	110821	20.0	19.4	
60 n-Heptane	57	5.424	5.424	0.000	91	75458	20.0	25.5	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	639642	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	65140	500.0	460.1	
63 Trichloroethene	95	5.930	5.930	0.000	95	94987	20.0	20.9	
64 Ethyl acrylate	56	6.058	6.058	0.000	97	49994	20.0	21.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	94	175208	20.0	23.5	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	92	79471	20.0	22.9	
* 67 1,4-Dioxane-d8	96	6.266	6.266	0.000	0	40636	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	84	94184	40.0	43.5	
69 1,4-Dioxane	88	6.327	6.327	0.000	27	21716	400.0	358.7	
70 n-Propyl acetate	43	6.333	6.333	0.000	98	92624	20.0	23.3	
71 Dibromomethane	93	6.357	6.357	0.000	92	57925	20.0	19.6	
72 Dichlorobromomethane	83	6.503	6.503	0.000	99	110043	20.0	19.3	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	81	40146	20.0	21.6	
74 2-Nitropropane	41	6.833	6.833	0.000	78	24799	40.0	34.1	
75 Epichlorohydrin	57	6.942	6.942	0.000	98	144074	400.0	352.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	124163	20.0	21.0	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	354241	100.0	93.2	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	730490	50.0	51.0	
79 Toluene	91	7.332	7.332	0.000	92	374087	20.0	20.8	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	99	110769	20.0	20.6	
81 Ethyl methacrylate	69	7.692	7.692	0.000	88	89368	20.0	20.9	
82 1,1,2-Trichloroethane	83	7.899	7.899	0.000	96	60034	20.0	21.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	114981	20.0	19.4	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	108448	20.0	21.3	
85 2-Hexanone	43	8.155	8.155	0.000	95	222260	100.0	91.4	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	100259	20.0	24.3	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	80654	20.0	18.4	
88 Ethylene Dibromide	107	8.509	8.509	0.000	100	76963	20.0	19.8	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	538864	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	255169	20.0	20.1	
92 Ethylbenzene	106	9.186	9.186	0.000	97	139137	20.0	20.3	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	95	100071	20.0	19.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	173361	20.0	20.5	
94 n-Butyl acrylate	73	9.765	9.765	0.000	97	59016	20.0	23.1	
95 o-Xylene	106	9.802	9.802	0.000	94	176214	20.0	19.9	
96 Styrene	104	9.832	9.832	0.000	97	285356	20.0	21.1	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	91	114912	20.0	24.4	
98 Bromoform	173	10.070	10.070	0.000	98	49182	20.0	16.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	479094	20.0	20.8	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	271999	50.0	47.0	
101 Bromobenzene	156	10.545	10.545	0.000	88	123665	20.0	19.0	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	101978	20.0	22.1	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	533749	20.0	22.2	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	29189	20.0	20.1	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	94	22507	20.0	20.9	
106 2-Chlorotoluene	91	10.728	10.728	0.000	88	356351	20.0	21.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	471696	20.0	21.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	401486	20.0	21.0	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	300655	20.0	21.5	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	115851	20.0	21.4	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	338366	20.0	20.8	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	413000	20.0	20.7	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	540768	20.0	22.1	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	481623	20.0	21.1	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	99	247099	20.0	20.0	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	333113	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	245929	20.0	19.7	
118 Benzyl chloride	91	11.655	11.655	0.000	99	209866	20.0	21.6	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	435422	20.0	20.4	
120 p-Diethylbenzene	119	11.765	11.765	0.000	94	286686	20.0	21.7	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	238224	20.0	22.3	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	244483	20.0	19.6	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	465758	20.0	20.3	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	92	17850	20.0	18.7	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	227911	20.0	20.0	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	217075	20.0	20.0	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	104176	20.0	19.6	
128 Naphthalene	128	13.319	13.319	0.000	99	464389	20.0	20.5	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	205875	20.0	19.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.7	
S 131 Xylenes, Total	100				0		40.0	40.4	
S 132 Total BTEX	1				0		100.0	103.9	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 12:51:29 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86356.D

Injection Date: 10-Jul-2018 08:23:30 Instrument ID: CVOAMS9 Operator ID:

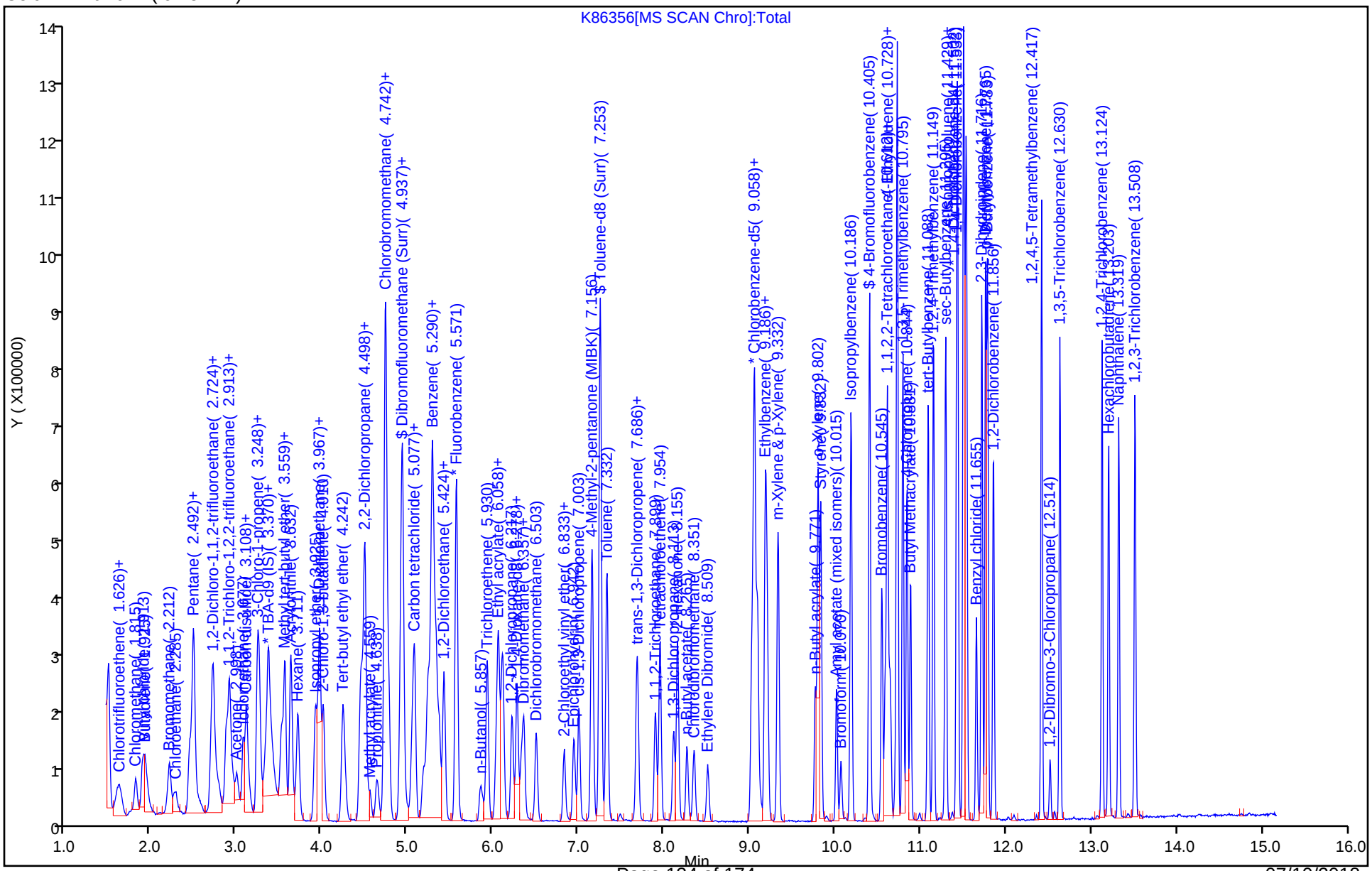
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

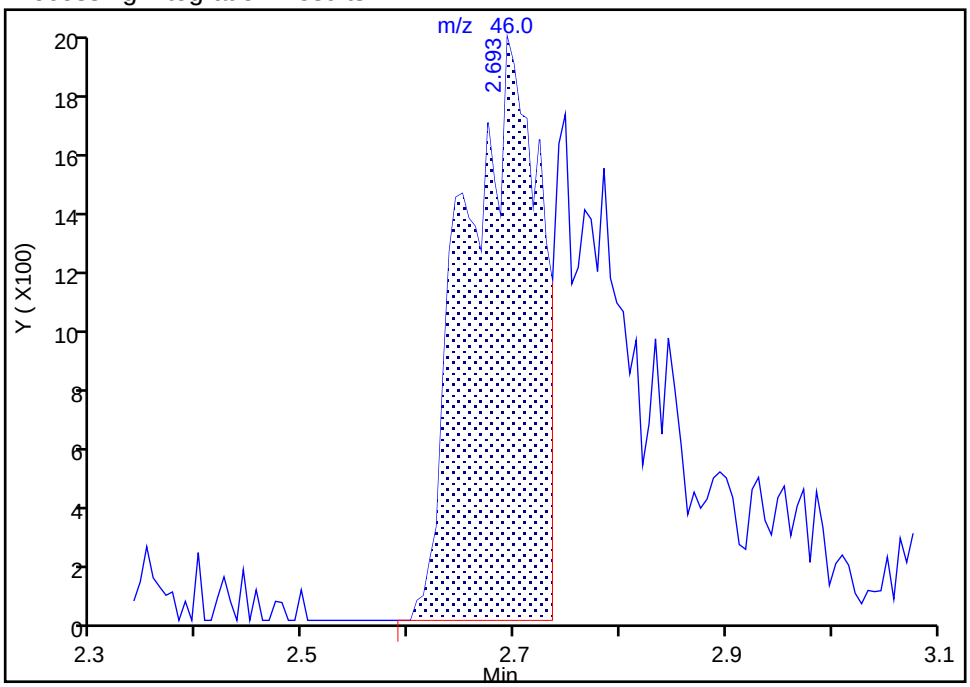
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86356.D
Injection Date: 10-Jul-2018 08:23:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

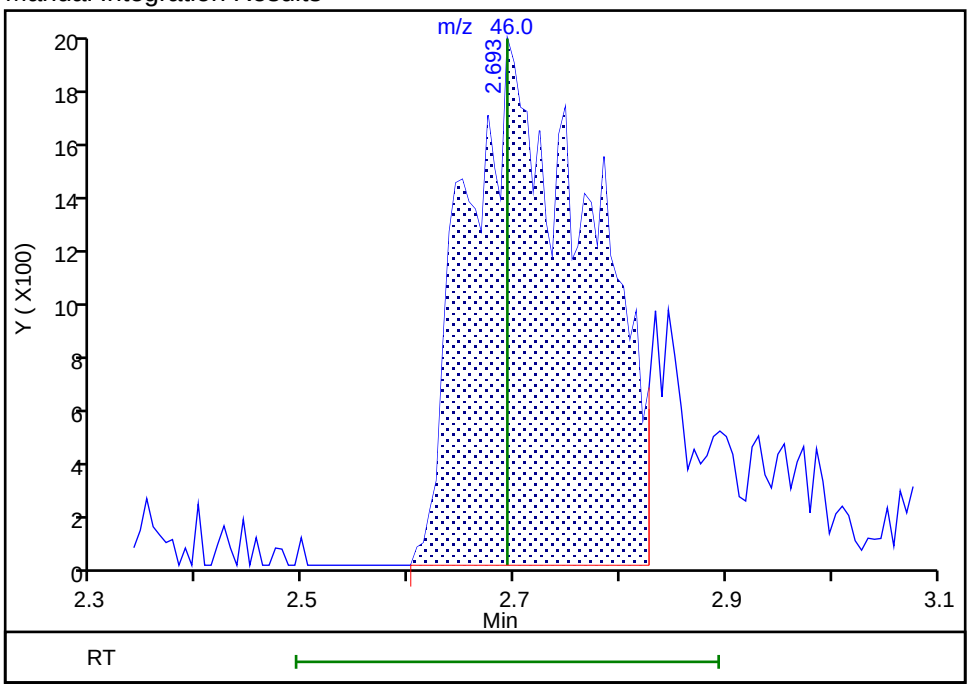
Processing Integration Results

RT: 2.69
Area: 9573
Amount: 499.0189
Amount Units: ug/l



Manual Integration Results

RT: 2.69
Area: 15782
Amount: 822.6801
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 12:44:55
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

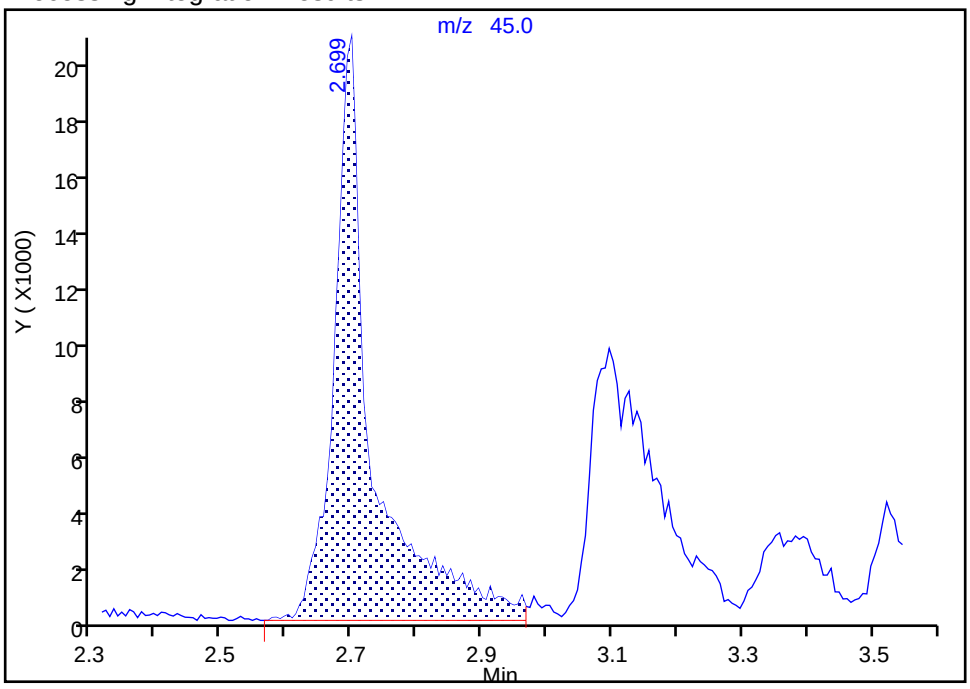
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86356.D
Injection Date: 10-Jul-2018 08:23:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

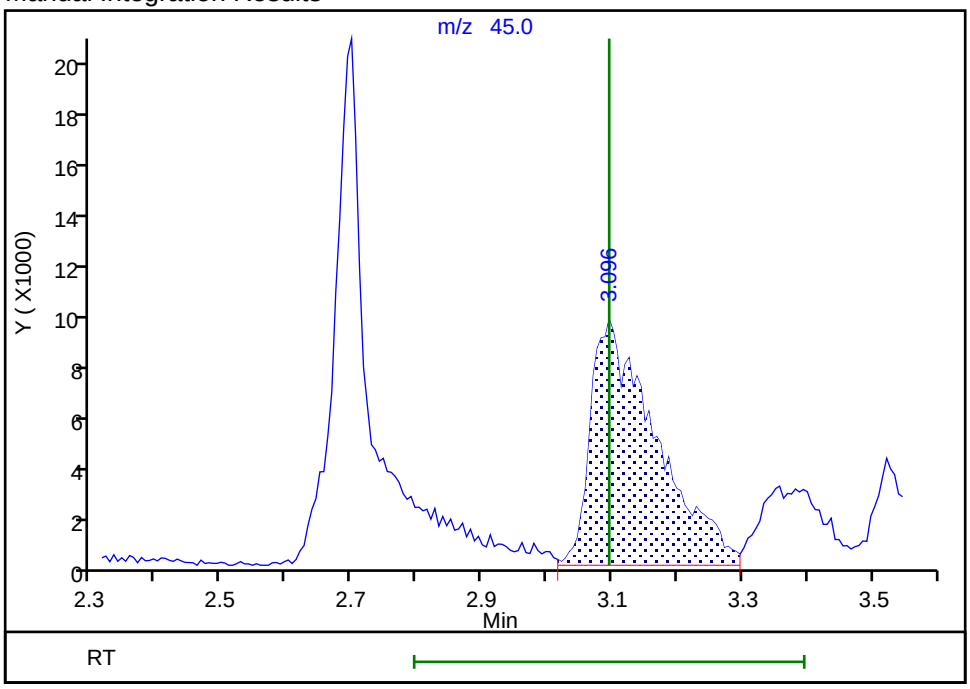
Processing Integration Results

RT: 2.70
Area: 84853
Amount: 264.4798
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 67992
Amount: 211.9254
Amount Units: ug/l



Reviewer: tupayachia, 10-Jul-2018 08:56:15
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

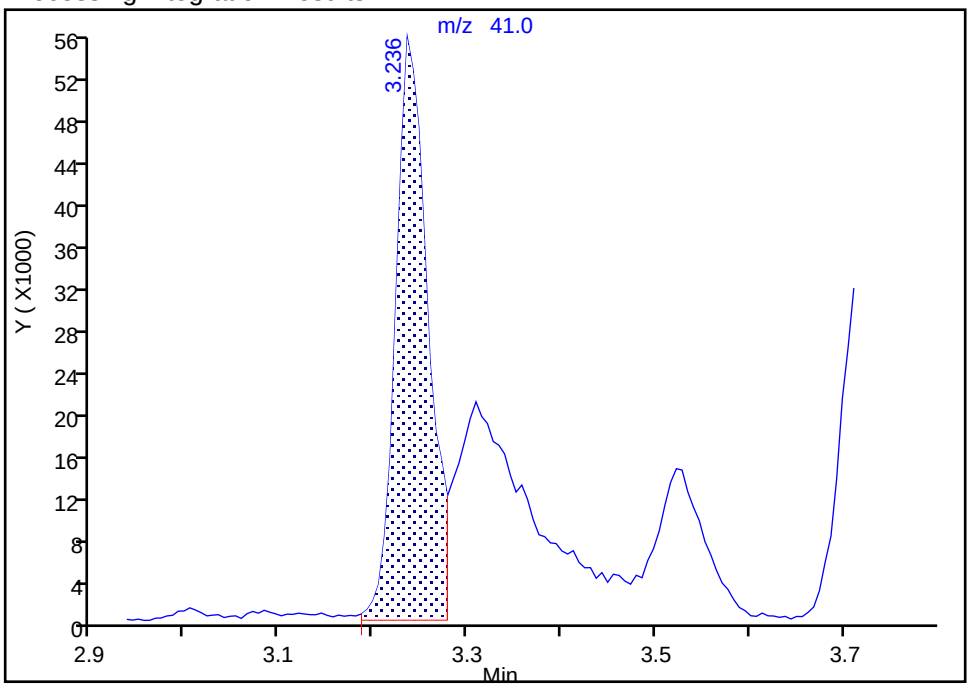
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86356.D
Injection Date: 10-Jul-2018 08:23:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

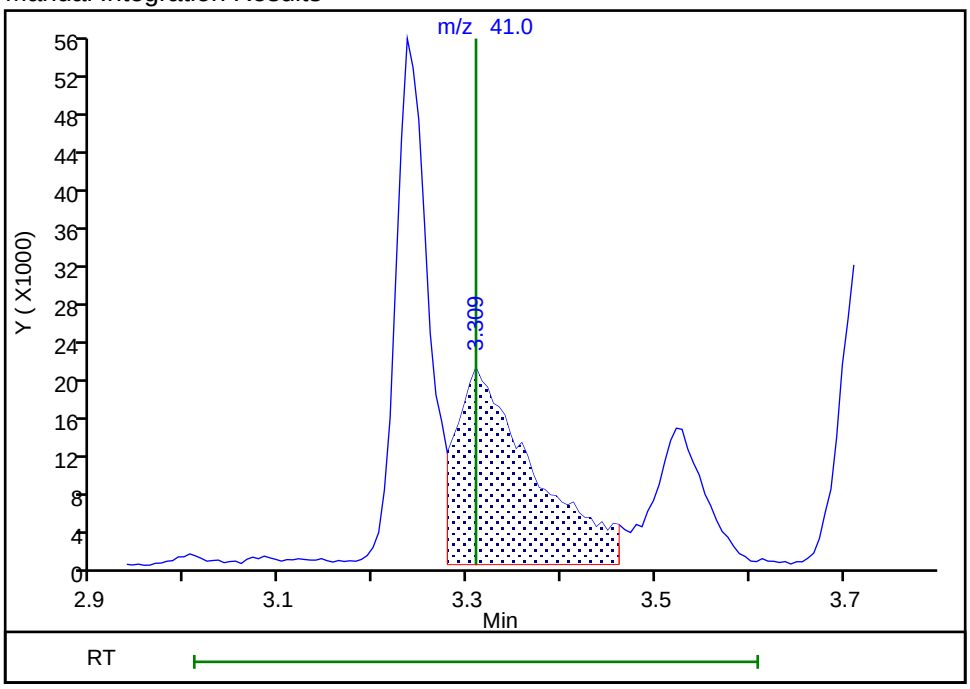
Processing Integration Results

RT: 3.24
Area: 133445
Amount: 221.2977
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 120155
Amount: 199.2583
Amount Units: ug/l



Reviewer: tupayachia, 10-Jul-2018 08:56:26
Audit Action: Assigned Compound ID Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Jul-2018 00:52:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074947-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 05:12:43 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: sarmientod Date: 06-Jul-2018 01:03:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.283	4.283	0.000	96	73268	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

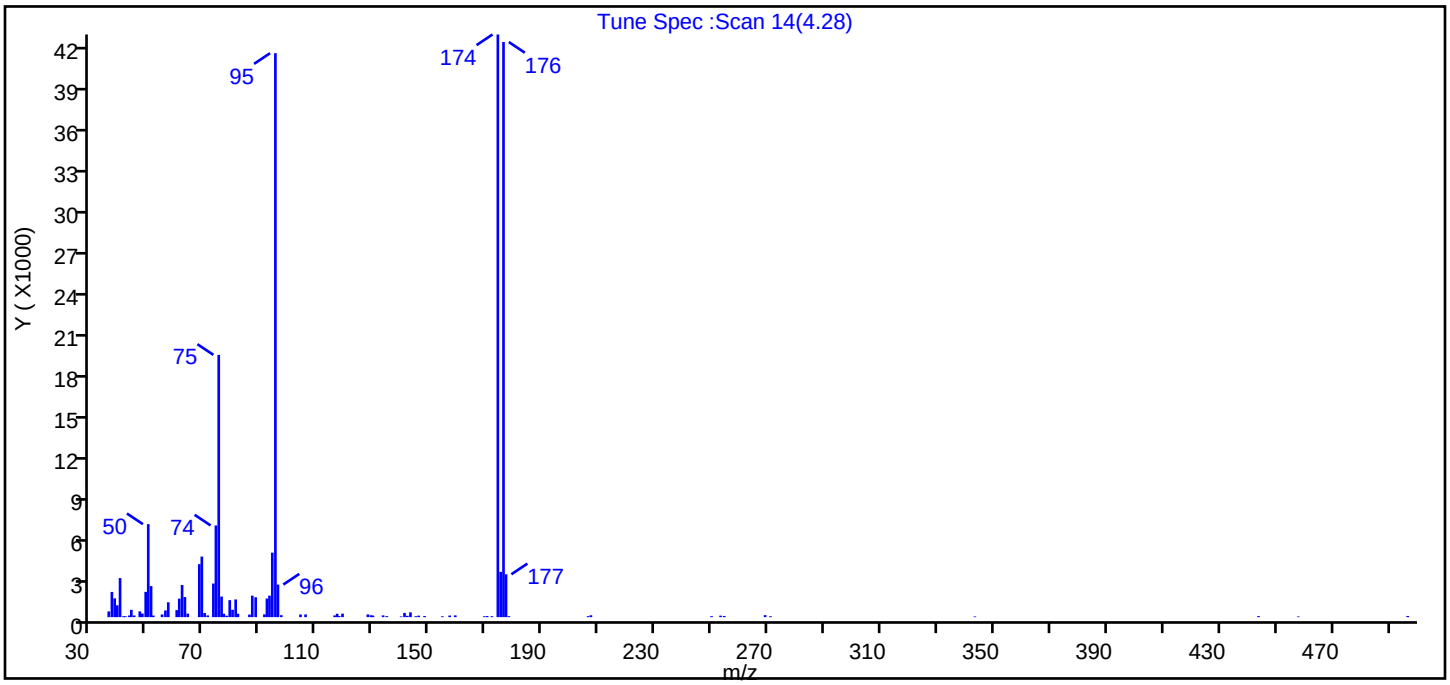
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Injection Date: 06-Jul-2018 00:52:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	103.3
175	5 to 9% of m/z 174	8.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	102.0 (98.7)
177	5 to 9% of m/z 176	7.6 (7.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D\8260S9.rslt\spectra.d
Injection Date: 06-Jul-2018 00:52:30
Spectrum: Tune Spec :Scan 14(4.28)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	419	63.00	1468	94.00	4715	154.30	62
37.10	1842	64.00	258	95.10	41216	156.90	118
38.10	1373	68.10	3871	96.00	2381	158.90	129
39.00	865	69.00	4426	97.20	143	169.20	65
40.00	2854	70.00	301	104.00	194	170.20	80
41.20	69	71.10	127	105.80	198	171.90	71
41.90	65	73.10	2455	116.10	124	174.00	42584
43.30	123	74.00	6702	117.00	248	175.00	3309
44.00	534	75.00	19168	117.70	82	176.00	42032
45.00	123	76.00	1505	118.90	259	176.90	3132
47.00	421	76.80	250	127.90	200	177.90	72
47.90	263	77.80	105	129.00	137	206.00	72
49.10	1847	78.90	1244	129.70	115	207.00	136
50.00	6796	79.90	539	133.30	130	249.80	72
51.00	2270	81.00	1294	134.60	76	253.00	109
51.80	116	81.80	252	139.70	51	254.30	86
54.90	196	85.90	190	140.90	309	268.80	146
56.10	489	86.90	1572	141.90	98	270.70	66
57.10	1086	88.10	1451	143.00	351	343.20	52
60.10	515	91.20	203	144.90	69	443.80	77
61.00	1353	92.10	1358	145.90	110	457.90	50
62.00	2350	93.00	1572	148.00	84	496.70	87

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86355.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jul-2018 07:57:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075170-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:51:16 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:44:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.317	4.317	0.000	98	58114	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

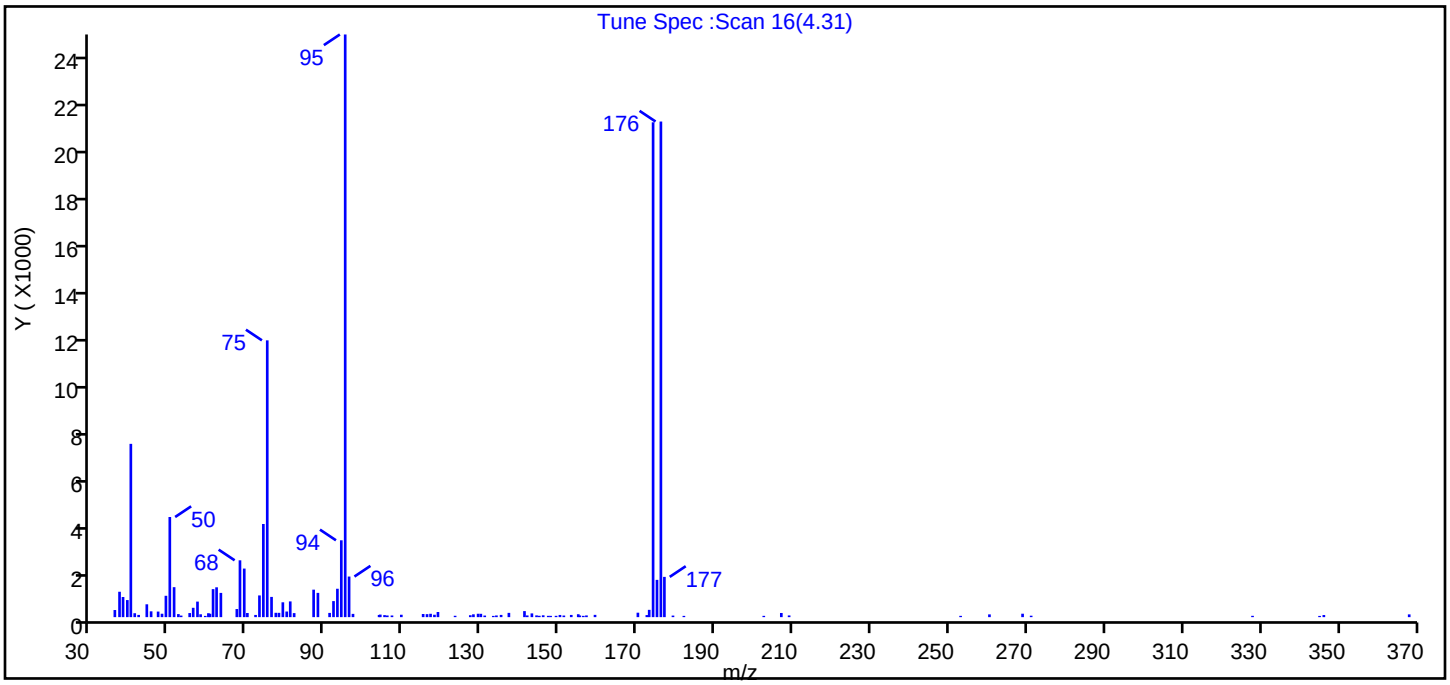
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86355.D
Injection Date: 10-Jul-2018 07:57:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.2
75	30 to 60% of m/z 95	47.5
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	1.3 (1.5)
174	50 to 120% of m/z 95	84.9
175	5 to 9% of m/z 174	6.4 (7.5)
176	Greater than 95% but less than 101% of m/z 174	85.1 (100.2)
177	5 to 9% of m/z 176	6.9 (8.1)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86355.D\8260S9.rslt\spectra.d
Injection Date: 10-Jul-2018 07:57:30
Spectrum: Tune Spec :Scan 16(4.31)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 108

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.90	296	68.00	2366	107.00	69	151.10	67
37.10	1057	69.10	2022	109.40	100	153.00	92
38.00	838	69.90	172	115.00	131	154.80	121
39.10	711	72.00	92	116.00	125	155.20	69
40.00	7214	73.00	904	116.90	140	156.10	54
41.00	163	74.00	3878	117.90	100	156.90	71
42.00	93	75.00	11523	118.80	214	159.10	95
44.10	535	76.10	842	123.20	57	170.10	185
45.20	242	77.20	181	127.10	80	172.40	86
47.00	232	78.00	179	127.90	118	173.00	304
48.00	142	79.00	618	129.10	141	174.00	20600
49.00	889	80.00	234	129.80	139	175.00	1552
50.00	4169	80.90	655	130.80	66	176.00	20632
51.10	1248	81.90	168	133.00	52	176.90	1676
52.20	127	86.90	1144	133.80	70	179.10	65
52.90	65	88.00	1010	135.00	93	181.90	53
55.10	170	91.00	176	137.00	178	202.40	54
56.00	389	92.00	668	141.00	251	206.90	173
57.10	647	93.00	1182	141.70	71	208.90	71
57.90	119	94.00	3199	142.90	156	252.90	54
59.10	52	95.00	24256	144.10	73	260.30	115
59.90	163	96.00	1690	144.80	57	268.80	143
60.30	141	97.00	136	145.80	77	271.00	60
61.10	1166	103.70	91	147.10	55	327.80	55
62.00	1242	104.00	106	147.70	54	345.00	51
63.10	1009	105.10	85	149.10	55	346.10	88
67.20	337	105.80	69	150.10	91	368.00	115

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534882/7

Matrix: Solid | Lab File ID: K86361.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 10:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	ND		5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534882/7

Matrix: Solid | Lab File ID: K86361.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 10:25

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	ND		1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	96		78-135
460-00-4	4-Bromofluorobenzene	96		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	105		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86361.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Jul-2018 10:25:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075170-007
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:52:34 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:52:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 25 TBA-d9 (IS)	65	3.370	3.358	0.012	0	369228	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	257914	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	225218	50.0	52.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	191205	50.0	48.1	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	621725	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.278	6.266	0.012	0	33347	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	98	702072	50.0	52.1	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	506978	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	98	262382	50.0	48.2	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	93	314232	50.0	50.0	

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

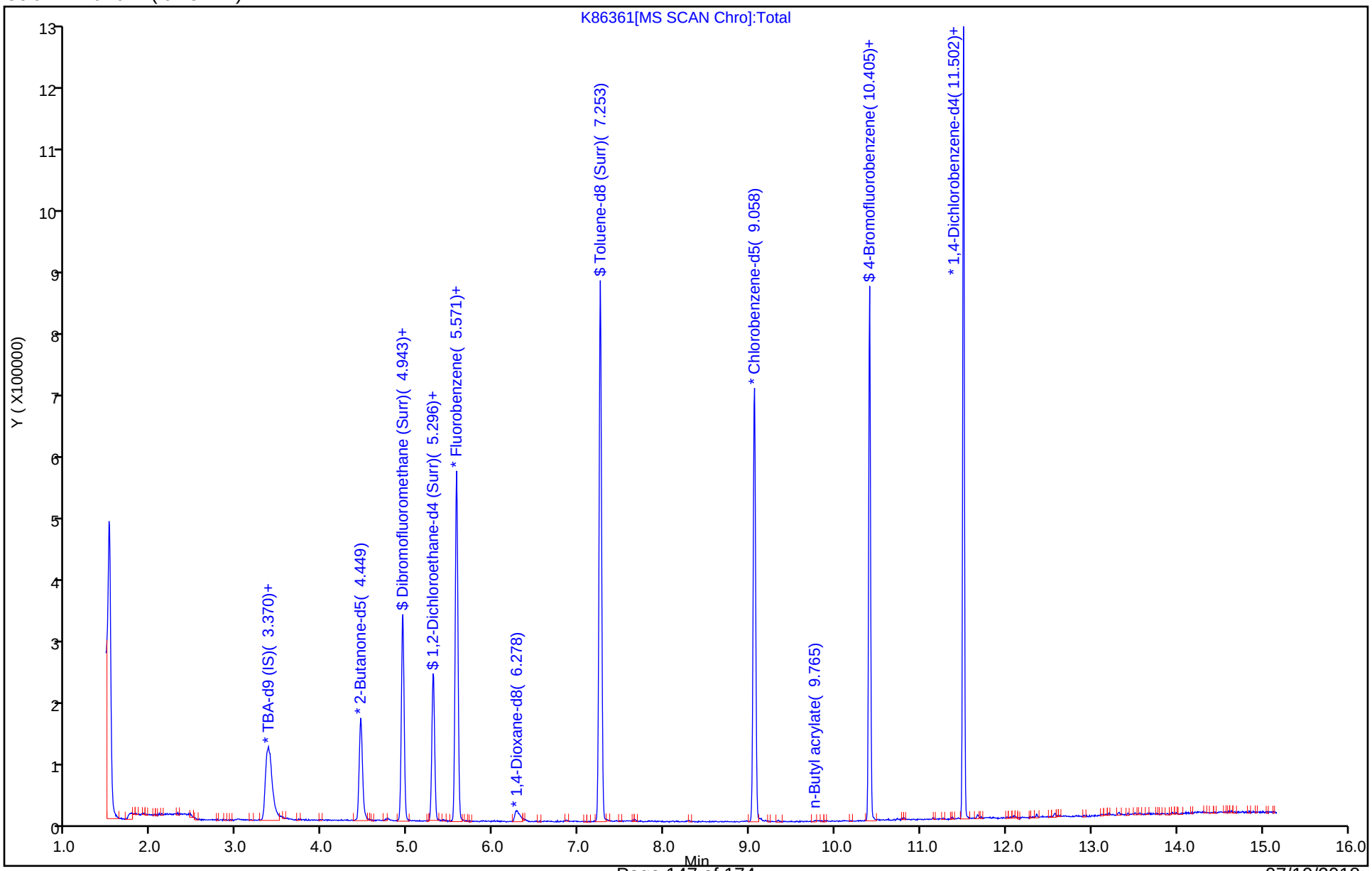
Report Date: 10-Jul-2018 12:52:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86361.D

Injection Date:	10-Jul-2018 10:25:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534882/3

Matrix: Solid | Lab File ID: K86357.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.7		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	21.6		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.7		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.1		1.0	0.18
75-34-3	1,1-Dichloroethane	22.1		1.0	0.21
75-35-4	1,1-Dichloroethene	21.1		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.3		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	18.1		1.0	0.46
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.14
107-06-2	1,2-Dichloroethane	18.1		1.0	0.30
78-87-5	1,2-Dichloropropane	22.4		1.0	0.42
541-73-1	1,3-Dichlorobenzene	19.3		1.0	0.16
106-46-7	1,4-Dichlorobenzene	19.3		1.0	0.10
78-93-3	2-Butanone (MEK)	77.3		5.0	1.1
591-78-6	2-Hexanone	91.2		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	93.6		5.0	0.66
67-64-1	Acetone	87.7		5.0	3.8
71-43-2	Benzene	22.0		1.0	0.26
75-25-2	Bromoform	15.9		1.0	0.43
74-83-9	Bromomethane	18.2		1.0	0.47
75-15-0	Carbon disulfide	21.8		1.0	0.27
56-23-5	Carbon tetrachloride	19.6		1.0	0.18
108-90-7	Chlorobenzene	19.5		1.0	0.18
124-48-1	Dibromochloromethane	18.0		1.0	0.19
75-00-3	Chloroethane	19.6		1.0	0.52
67-66-3	Chloroform	19.7		1.0	0.32
74-87-3	Chloromethane	20.2		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	20.3		1.0	0.15
110-82-7	Cyclohexane	23.3		1.0	0.22
75-27-4	Bromodichloromethane	18.9		1.0	0.26
75-71-8	Dichlorodifluoromethane	17.9		1.0	0.34
100-41-4	Ethylbenzene	20.0		1.0	0.20
106-93-4	1,2-Dibromoethane	19.1		1.0	0.18
98-82-8	Isopropylbenzene	20.3		1.0	0.13
79-20-9	Methyl acetate	43.9		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534882/3

Matrix: Solid | Lab File ID: K86357.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.4		1.0	0.13
108-87-2	Methylcyclohexane	23.1		1.0	0.16
75-09-2	Methylene Chloride	20.2		1.0	0.16
127-18-4	Tetrachloroethene	18.9		1.0	0.14
108-88-3	Toluene	20.1		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	21.0		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	19.6		1.0	0.27
79-01-6	Trichloroethene	20.5		1.0	0.14
75-69-4	Trichlorofluoromethane	17.1		1.0	0.41
75-01-4	Vinyl chloride	20.0		1.0	0.55
1330-20-7	Xylenes, Total	39.6		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	20.6		1.0	0.27
100-42-5	Styrene	20.1		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-135
460-00-4	4-Bromofluorobenzene	95		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	102		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86357.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Jul-2018 08:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075170-003
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:51:27 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:48:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	91	53711	20.0	17.4	
2 Dichlorodifluoromethane	85	1.632	1.632	0.000	99	114979	20.0	17.9	
3 Chloromethane	50	1.809	1.815	-0.006	99	107008	20.0	20.2	
4 Vinyl chloride	62	1.907	1.907	0.000	97	108780	20.0	20.0	
5 Butadiene	54	1.925	1.937	-0.012	94	93066	20.0	21.6	
6 Bromomethane	94	2.205	2.212	-0.007	98	90090	20.0	18.2	
7 Chloroethane	64	2.279	2.279	0.000	99	57275	20.0	19.6	
8 Trichlorofluoromethane	101	2.449	2.449	0.000	72	146912	20.0	17.1	
9 Dichlorofluoromethane	67	2.462	2.468	-0.006	97	155167	20.0	19.0	
10 Pentane	72	2.486	2.498	-0.012	96	24143	40.0	36.3	
12 Ethanol	46	2.681	2.693	-0.012	65	17785	800.0	1006.8	
11 Ethyl ether	59	2.693	2.693	0.000	95	56353	20.0	22.5	
13 2-Methyl-1,3-butadiene	53	2.711	2.724	-0.013	96	63846	20.0	23.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	93	94470	20.0	22.3	
15 Acrolein	56	2.876	2.876	0.000	96	104980	300.0	229.5	
17 1,1-Dichloroethene	96	2.913	2.913	0.000	97	87850	20.0	21.1	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.925	-0.006	89	103816	20.0	22.7	
18 Acetone	43	2.998	3.004	-0.006	87	103945	100.0	87.7	
19 Iodomethane	142	3.071	3.077	-0.006	97	194706	20.0	19.4	
22 Isopropyl alcohol	45	3.102	3.096	0.006	31	62244	200.0	210.7	a
20 Carbon disulfide	76	3.114	3.114	0.000	99	294137	20.0	21.8	
21 3-Chloro-1-propene	76	3.236	3.236	0.000	90	55190	20.0	22.8	
23 Methyl acetate	43	3.242	3.248	-0.006	93	97601	40.0	43.9	
24 Cyclopentene	67	3.260	3.266	-0.006	93	200256	20.0	24.7	
29 Acetonitrile	41	3.303	3.309	-0.006	93	114062	200.0	205.4	a
* 25 TBA-d9 (IS)	65	3.352	3.358	-0.006	0	430600	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	90	94304	20.0	20.2	
27 2-Methyl-2-propanol	59	3.431	3.425	0.006	94	116028	200.0	181.7	
28 Methyl tert-butyl ether	73	3.528	3.528	0.000	95	242018	20.0	20.4	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	91	94554	20.0	21.0	
31 Acrylonitrile	53	3.626	3.632	-0.006	93	257970	200.0	236.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.711	3.717	-0.006	92	65922	20.0	25.9	
33 Isopropyl ether	45	3.919	3.925	-0.006	93	234280	20.0	24.7	
34 1,1-Dichloroethane	63	3.961	3.967	-0.006	74	146199	20.0	22.1	
35 Vinyl acetate	86	3.961	3.973	-0.012	99	29767	40.0	35.7	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	89	80815	20.0	22.0	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	90	242099	20.0	21.8	
* 38 2-Butanone-d5	46	4.443	4.449	-0.006	0	290079	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	94	43139	20.0	20.5	
40 cis-1,2-Dichloroethene	96	4.492	4.498	-0.006	98	108354	20.0	20.3	
41 Ethyl acetate	70	4.498	4.498	0.000	93	15881	40.0	36.6	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	97	41739	100.0	77.3	
44 Methyl acrylate	55	4.553	4.559	-0.006	98	59631	20.0	22.8	
43 Propionitrile	54	4.638	4.638	0.000	97	100963	200.0	188.9	
46 Chlorobromomethane	128	4.729	4.729	0.000	76	55978	20.0	18.7	
45 Tetrahydrofuran	72	4.723	4.729	-0.006	68	21409	40.0	34.6	
47 Methacrylonitrile	67	4.742	4.742	0.000	91	296214	200.0	217.1	
48 Chloroform	83	4.772	4.778	-0.006	99	158656	20.0	19.7	
49 Cyclohexane	84	4.918	4.924	-0.006	88	137848	20.0	23.3	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.001	96	151950	20.0	19.7	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	224325	50.0	50.9	
52 Carbon tetrachloride	117	5.046	5.059	-0.013	97	133884	20.0	19.6	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	97	115373	20.0	21.1	
56 Isobutyl alcohol	74	5.193	5.187	0.006	93	12253	500.0	500.1	a
54 Benzene	78	5.278	5.284	-0.006	96	339432	20.0	22.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.290	5.296	-0.006	0	198970	50.0	48.6	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	216298	20.0	21.2	
58 Tert-amyl methyl ether	87	5.327	5.333	-0.006	96	77859	20.0	19.5	
59 1,2-Dichloroethane	62	5.369	5.369	0.000	96	103938	20.0	18.1	
60 n-Heptane	57	5.418	5.424	-0.006	91	68513	20.0	23.1	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	100	640310	50.0	50.0	
62 n-Butanol	56	5.851	5.857	-0.006	87	59643	500.0	457.5	
63 Trichloroethene	95	5.924	5.930	-0.006	96	93008	20.0	20.5	
64 Ethyl acrylate	56	6.058	6.058	0.000	98	52668	20.0	22.8	
65 Methylcyclohexane	83	6.058	6.058	0.000	94	172562	20.0	23.1	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	93	77879	20.0	22.4	
* 67 1,4-Dioxane-d8	96	6.272	6.266	0.006	0	37123	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	87	91741	40.0	42.4	
69 1,4-Dioxane	88	6.327	6.327	0.000	29	21511	400.0	389.0	
70 n-Propyl acetate	43	6.327	6.333	-0.006	97	88180	20.0	22.2	
71 Dibromomethane	93	6.357	6.357	0.000	92	54832	20.0	18.6	
72 Dichlorobromomethane	83	6.503	6.503	0.000	98	108073	20.0	18.9	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.007	83	39431	20.0	21.2	
74 2-Nitropropane	41	6.827	6.833	-0.007	78	23088	40.0	31.7	
75 Epichlorohydrin	57	6.942	6.942	0.000	99	132389	400.0	347.3	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	121018	20.0	20.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	331871	100.0	93.6	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	737949	50.0	51.8	
79 Toluene	91	7.326	7.332	-0.006	93	360671	20.0	20.1	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	99	104584	20.0	19.6	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	87494	20.0	20.5	
82 1,1,2-Trichloroethane	83	7.893	7.899	-0.006	95	58069	20.0	21.1	
83 Tetrachloroethene	166	7.948	7.954	-0.006	96	111480	20.0	18.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.107	8.113	-0.006	89	106792	20.0	21.1	
85 2-Hexanone	43	8.156	8.155	0.001	95	206888	100.0	91.2	
86 n-Butyl acetate	43	8.265	8.265	0.000	99	98847	20.0	24.1	
87 Chlorodibromomethane	129	8.351	8.351	0.000	98	78170	20.0	18.0	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	73929	20.0	19.1	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	83	536154	50.0	50.0	
90 Chlorobenzene	112	9.088	9.094	-0.006	98	246799	20.0	19.5	
92 Ethylbenzene	106	9.186	9.186	0.000	97	136515	20.0	20.0	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	95	95599	20.0	18.2	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	166279	20.0	19.8	
94 n-Butyl acrylate	73	9.765	9.765	0.000	98	56325	20.0	22.2	
95 o-Xylene	106	9.802	9.802	0.000	95	174387	20.0	19.8	
96 Styrene	104	9.832	9.832	0.000	97	271164	20.0	20.1	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	91	111973	20.0	24.1	
98 Bromoform	173	10.070	10.070	0.000	97	46676	20.0	15.9	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	464688	20.0	20.3	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	274585	50.0	47.7	
101 Bromobenzene	156	10.551	10.545	0.006	88	122470	20.0	19.1	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	98	98402	20.0	21.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	514359	20.0	21.7	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	29265	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	93	21873	20.0	20.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	341531	20.0	20.7	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	456836	20.0	21.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	389088	20.0	20.6	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	96	289922	20.0	21.1	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	88	112387	20.0	21.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	328102	20.0	20.5	
112 1,2,4-Trimethylbenzene	105	11.149	11.155	-0.006	97	402620	20.0	20.4	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	520262	20.0	21.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	465610	20.0	20.6	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	234519	20.0	19.3	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	328509	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	237513	20.0	19.3	
118 Benzyl chloride	91	11.655	11.655	0.000	99	200811	20.0	21.0	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	419830	20.0	19.9	
120 p-Diethylbenzene	119	11.758	11.765	-0.007	95	278964	20.0	21.4	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	231479	20.0	22.0	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	239504	20.0	19.4	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	451128	20.0	20.0	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	91	16999	20.0	18.1	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	218653	20.0	19.4	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	206503	20.0	19.3	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	100639	20.0	19.2	
128 Naphthalene	128	13.319	13.319	0.000	99	460355	20.0	20.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	205081	20.0	19.8	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.3	
S 131 Xylenes, Total	100				0		40.0	39.6	
S 132 Total BTEX	1				0		100.0	101.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

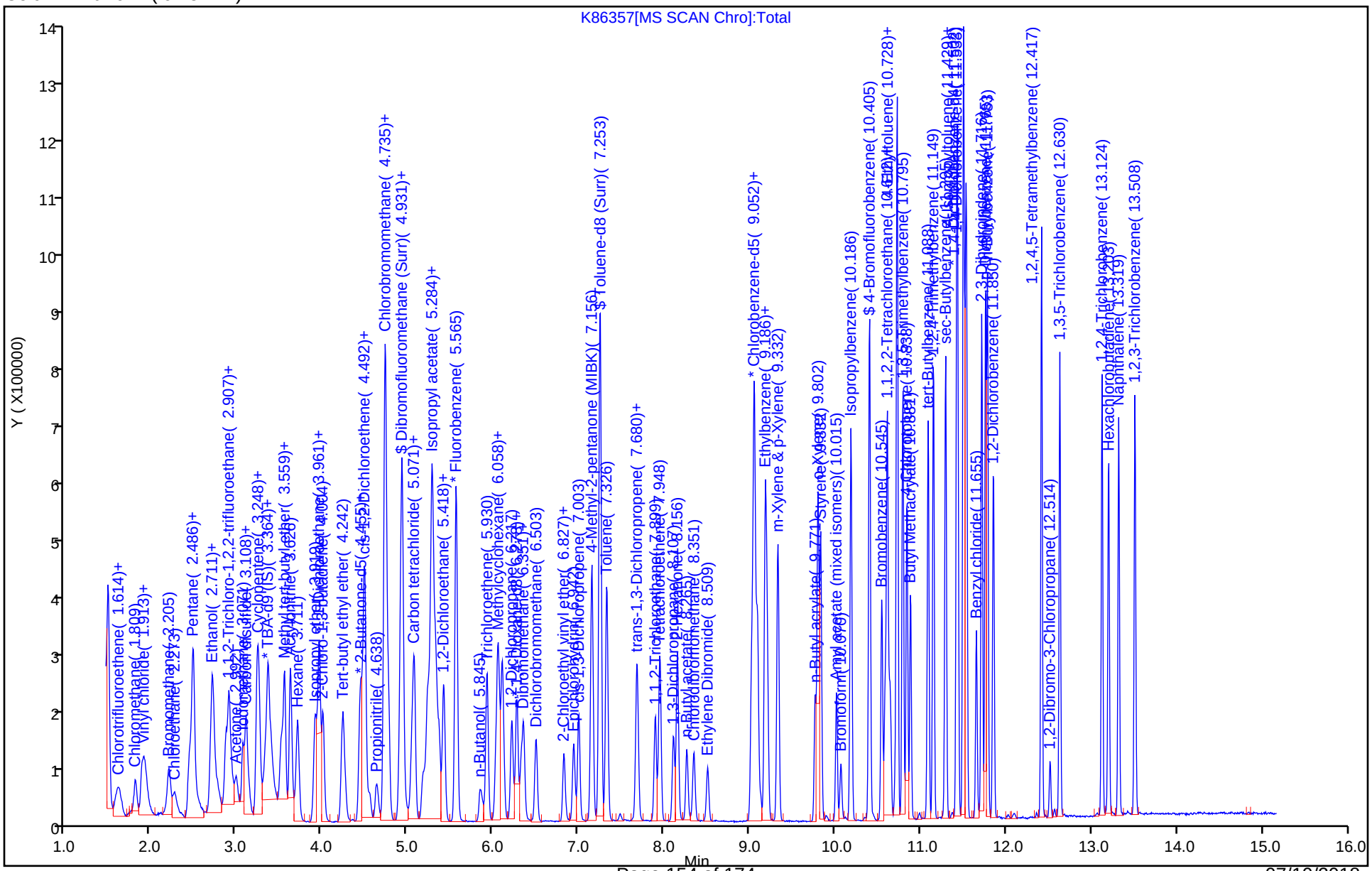
Report Date: 10-Jul-2018 12:51:45 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86357.D

Injection Date:	10-Jul-2018 08:47:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534882/4

Matrix: Solid | Lab File ID: K86358.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	22.8		1.0	0.18
75-34-3	1,1-Dichloroethane	23.6		1.0	0.21
75-35-4	1,1-Dichloroethene	21.6		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.7		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	19.7		1.0	0.46
95-50-1	1,2-Dichlorobenzene	20.1		1.0	0.14
107-06-2	1,2-Dichloroethane	19.2		1.0	0.30
78-87-5	1,2-Dichloropropane	23.1		1.0	0.42
541-73-1	1,3-Dichlorobenzene	20.4		1.0	0.16
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.10
78-93-3	2-Butanone (MEK)	87.6		5.0	1.1
591-78-6	2-Hexanone	94.3		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	98.6		5.0	0.66
67-64-1	Acetone	90.8		5.0	3.8
71-43-2	Benzene	23.4		1.0	0.26
75-25-2	Bromoform	16.4		1.0	0.43
74-83-9	Bromomethane	18.2		1.0	0.47
75-15-0	Carbon disulfide	23.0		1.0	0.27
56-23-5	Carbon tetrachloride	20.3		1.0	0.18
108-90-7	Chlorobenzene	20.6		1.0	0.18
124-48-1	Dibromochloromethane	18.7		1.0	0.19
75-00-3	Chloroethane	19.4		1.0	0.52
67-66-3	Chloroform	20.7		1.0	0.32
74-87-3	Chloromethane	20.9		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	21.1		1.0	0.15
110-82-7	Cyclohexane	23.4		1.0	0.22
75-27-4	Bromodichloromethane	19.7		1.0	0.26
75-71-8	Dichlorodifluoromethane	18.5		1.0	0.34
100-41-4	Ethylbenzene	21.2		1.0	0.20
106-93-4	1,2-Dibromoethane	20.5		1.0	0.18
98-82-8	Isopropylbenzene	21.7		1.0	0.13
79-20-9	Methyl acetate	45.1		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159285-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534882/4

Matrix: Solid | Lab File ID: K86358.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:12

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534882 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.5		1.0	0.13
108-87-2	Methylcyclohexane	23.7		1.0	0.16
75-09-2	Methylene Chloride	22.2		1.0	0.16
127-18-4	Tetrachloroethene	19.7		1.0	0.14
108-88-3	Toluene	21.6		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	21.7		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	20.5		1.0	0.27
79-01-6	Trichloroethene	21.5		1.0	0.14
75-69-4	Trichlorofluoromethane	18.9		1.0	0.41
75-01-4	Vinyl chloride	20.8		1.0	0.55
1330-20-7	Xylenes, Total	41.6		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.5		1.0	0.27
100-42-5	Styrene	21.1		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-135
460-00-4	4-Bromofluorobenzene	98		67-126
2037-26-5	Toluene-d8 (Surr)	108		73-121
1868-53-7	Dibromofluoromethane (Surr)	102		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86358.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 10-Jul-2018 09:12:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075170-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:51:27 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 12:48:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.614	1.602	0.012	92	57028	20.0	18.5	
2 Dichlorodifluoromethane	85	1.645	1.632	0.013	98	118825	20.0	18.5	
3 Chloromethane	50	1.828	1.815	0.013	98	110240	20.0	20.9	
4 Vinyl chloride	62	1.913	1.907	0.006	98	112830	20.0	20.8	
5 Butadiene	54	1.937	1.937	0.000	92	95804	20.0	22.2	
6 Bromomethane	94	2.218	2.212	0.006	99	90404	20.0	18.2	
7 Chloroethane	64	2.279	2.279	0.000	99	56805	20.0	19.4	
8 Trichlorofluoromethane	101	2.462	2.449	0.013	70	162277	20.0	18.9	
9 Dichlorofluoromethane	67	2.474	2.468	0.006	97	176479	20.0	21.7	
10 Pentane	72	2.492	2.498	-0.006	97	26593	40.0	39.9	
12 Ethanol	46	2.693	2.693	0.000	71	16528	800.0	933.6	
11 Ethyl ether	59	2.699	2.693	0.006	94	58874	20.0	23.5	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	69747	20.0	25.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.742	0.006	93	97986	20.0	23.2	
15 Acrolein	56	2.882	2.876	0.006	95	103794	300.0	226.4	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	96	89749	20.0	21.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.925	-0.006	51	107891	20.0	23.6	
18 Acetone	43	3.004	3.004	0.000	87	106911	100.0	90.8	
19 Iodomethane	142	3.077	3.077	0.000	98	205464	20.0	20.5	
22 Isopropyl alcohol	45	3.090	3.096	-0.006	30	64268	200.0	217.1	a
20 Carbon disulfide	76	3.120	3.114	0.006	98	310221	20.0	23.0	
21 3-Chloro-1-propene	76	3.242	3.236	0.006	96	56639	20.0	23.4	
23 Methyl acetate	43	3.248	3.248	0.000	98	100572	40.0	45.1	
24 Cyclopentene	67	3.266	3.266	0.000	93	212706	20.0	26.2	
29 Acetonitrile	41	3.309	3.309	0.000	90	125463	200.0	225.5	a
* 25 TBA-d9 (IS)	65	3.382	3.358	0.024	0	431558	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.370	0.000	86	103815	20.0	22.2	
27 2-Methyl-2-propanol	59	3.461	3.425	0.036	94	119571	200.0	186.8	
28 Methyl tert-butyl ether	73	3.529	3.528	0.001	95	254748	20.0	21.5	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	91	97814	20.0	21.7	
31 Acrylonitrile	53	3.632	3.632	0.000	94	265537	200.0	243.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.718	3.717	0.001	92	69017	20.0	27.1	
33 Isopropyl ether	45	3.925	3.925	0.000	94	247261	20.0	26.1	
34 1,1-Dichloroethane	63	3.974	3.967	0.007	74	155685	20.0	23.6	
35 Vinyl acetate	86	3.974	3.973	0.001	99	30133	40.0	36.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.010	0.006	90	84949	20.0	23.2	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	253588	20.0	22.8	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	288105	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	45749	20.0	21.7	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	99	112531	20.0	21.1	
41 Ethyl acetate	70	4.498	4.498	0.000	92	15331	40.0	35.5	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	97	46972	100.0	87.6	
44 Methyl acrylate	55	4.559	4.559	0.000	98	57988	20.0	22.2	
43 Propionitrile	54	4.638	4.638	0.000	98	107394	200.0	200.5	
46 Chlorobromomethane	128	4.730	4.729	0.001	76	57871	20.0	19.3	
45 Tetrahydrofuran	72	4.723	4.729	-0.006	64	22235	40.0	36.1	
47 Methacrylonitrile	67	4.742	4.742	0.000	91	310641	200.0	227.8	
48 Chloroform	83	4.778	4.778	0.000	99	166687	20.0	20.7	
49 Cyclohexane	84	4.925	4.924	0.001	88	137945	20.0	23.4	
50 1,1,1-Trichloroethane	97	4.937	4.931	0.007	96	160095	20.0	20.8	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	225438	50.0	51.2	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	138936	20.0	20.3	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	96	120815	20.0	22.1	
56 Isobutyl alcohol	74	5.187	5.187	0.000	94	11397	500.0	464.2	
54 Benzene	78	5.284	5.284	0.000	95	351387	20.0	23.4	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	199285	50.0	48.7	
57 Isopropyl acetate	43	5.321	5.321	0.000	95	231344	20.0	22.7	
58 Tert-amyl methyl ether	87	5.327	5.333	-0.006	91	81271	20.0	20.3	
59 1,2-Dichloroethane	62	5.376	5.369	0.007	97	110176	20.0	19.2	
60 n-Heptane	57	5.425	5.424	0.000	90	73393	20.0	24.7	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	640066	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	89	62097	500.0	475.3	
63 Trichloroethene	95	5.931	5.930	0.000	96	97501	20.0	21.5	
64 Ethyl acrylate	56	6.059	6.058	0.001	92	51832	20.0	22.5	
65 Methylcyclohexane	83	6.059	6.058	0.001	93	177246	20.0	23.7	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	93	80227	20.0	23.1	
* 67 1,4-Dioxane-d8	96	6.278	6.266	0.012	0	36849	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	84	93798	40.0	43.3	
69 1,4-Dioxane	88	6.327	6.327	0.000	27	21834	400.0	397.7	
70 n-Propyl acetate	43	6.333	6.333	0.000	97	88270	20.0	22.2	
71 Dibromomethane	93	6.357	6.357	0.000	91	57754	20.0	19.6	
72 Dichlorobromomethane	83	6.504	6.503	0.001	99	112578	20.0	19.7	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.006	81	40064	20.0	21.6	
74 2-Nitropropane	41	6.833	6.833	0.000	78	24118	40.0	33.1	
75 Epichlorohydrin	57	6.943	6.942	0.000	99	138044	400.0	364.6	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	123527	20.0	21.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	347313	100.0	98.6	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	745955	50.0	53.8	
79 Toluene	91	7.333	7.332	0.001	93	376883	20.0	21.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	106941	20.0	20.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	89785	20.0	21.6	
82 1,1,2-Trichloroethane	83	7.900	7.899	0.001	96	61150	20.0	22.8	
83 Tetrachloroethene	166	7.948	7.954	-0.006	98	112921	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	106939	20.0	21.7	
85 2-Hexanone	43	8.156	8.155	0.001	95	212495	100.0	94.3	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	99846	20.0	25.0	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	79315	20.0	18.7	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	77210	20.0	20.5	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	522352	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	98	253622	20.0	20.6	
92 Ethylbenzene	106	9.186	9.186	0.000	98	141183	20.0	21.2	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	94	100243	20.0	19.6	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	171506	20.0	21.0	
94 n-Butyl acrylate	73	9.765	9.765	0.000	97	58739	20.0	23.7	
95 o-Xylene	106	9.802	9.802	0.000	94	176996	20.0	20.6	
96 Styrene	104	9.832	9.832	0.000	97	276608	20.0	21.1	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	91	115594	20.0	24.9	
98 Bromoform	173	10.070	10.070	0.000	98	47040	20.0	16.4	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	484396	20.0	21.7	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	273622	50.0	48.8	
101 Bromobenzene	156	10.545	10.545	0.000	88	125952	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	99981	20.0	21.9	
103 N-Propylbenzene	91	10.613	10.612	0.001	100	535992	20.0	22.7	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	28726	20.0	20.1	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	92	22734	20.0	21.5	
106 2-Chlorotoluene	91	10.728	10.728	0.000	88	354006	20.0	21.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	470346	20.0	21.9	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	398185	20.0	21.1	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	96	298382	20.0	21.7	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	117884	20.0	22.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	339231	20.0	21.2	
112 1,2,4-Trimethylbenzene	105	11.149	11.155	-0.006	96	415807	20.0	21.1	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	532724	20.0	22.1	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	475993	20.0	21.1	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	247752	20.0	20.4	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	92	328131	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	243953	20.0	19.8	
118 Benzyl chloride	91	11.655	11.655	0.000	99	203464	20.0	21.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	435471	20.0	20.7	
120 p-Diethylbenzene	119	11.759	11.765	-0.006	94	280873	20.0	21.5	a
121 n-Butylbenzene	92	11.783	11.783	0.000	97	240856	20.0	22.9	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	247489	20.0	20.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	465829	20.0	20.6	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.514	0.001	92	18529	20.0	19.7	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	225921	20.0	20.1	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	210998	20.0	19.7	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	103658	20.0	19.8	
128 Naphthalene	128	13.319	13.319	0.000	99	474415	20.0	21.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	207504	20.0	20.1	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.9	
S 131 Xylenes, Total	100				0		40.0	41.6	
S 132 Total BTEX	1				0		100.0	107.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

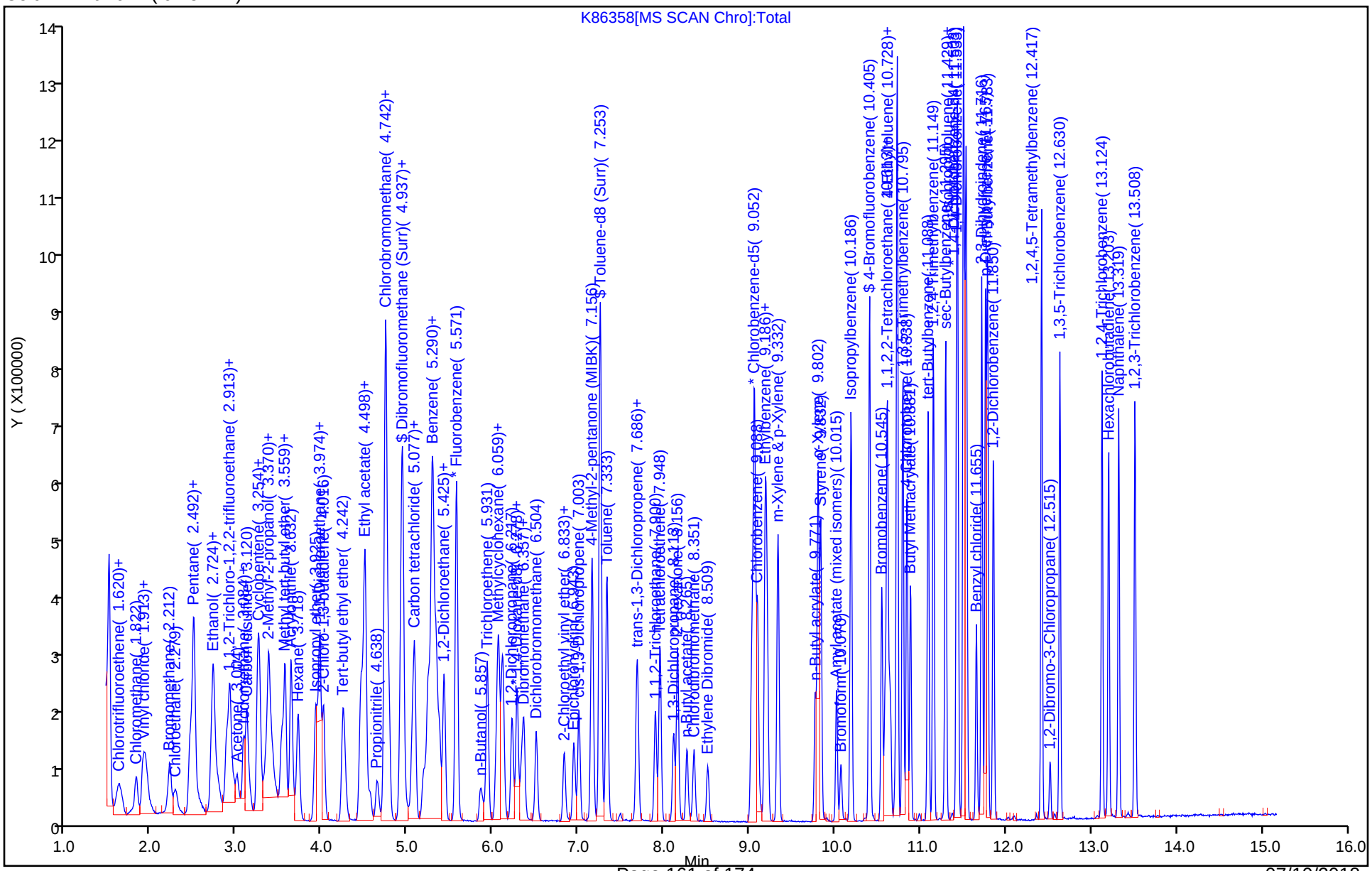
Report Date: 10-Jul-2018 12:52:00 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75170.b\K86358.D

Injection Date:	10-Jul-2018 09:12:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/06/2018 00:52

Analysis Batch Number: 533800 End Date: 07/06/2018 05:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533800/1		07/06/2018 00:52	1	K86116.D	Rtx-624 0.25(mm)
STD1 460-533800/3 IC		07/06/2018 01:46	1	K86118.D	Rtx-624 0.25(mm)
STD5 460-533800/4 IC		07/06/2018 02:10	1	K86119.D	Rtx-624 0.25(mm)
STD20 460-533800/5 ICIS		07/06/2018 02:35	1	K86120.D	Rtx-624 0.25(mm)
STD50 460-533800/6 IC		07/06/2018 02:59	1	K86121.D	Rtx-624 0.25(mm)
STD200 460-533800/7 IC		07/06/2018 03:23	1	K86122.D	Rtx-624 0.25(mm)
STD500 460-533800/8 IC		07/06/2018 03:48	1	K86123.D	Rtx-624 0.25(mm)
ICV 460-533800/12		07/06/2018 05:26	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/10/2018 07:57

Analysis Batch Number: 534882 End Date: 07/10/2018 14:55

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534882/1		07/10/2018 07:57	1	K86355.D	Rtx-624 0.25(mm)
CCVIS 460-534882/2		07/10/2018 08:23	1	K86356.D	Rtx-624 0.25(mm)
LCS 460-534882/3		07/10/2018 08:47	1	K86357.D	Rtx-624 0.25(mm)
LCSD 460-534882/4		07/10/2018 09:12	1	K86358.D	Rtx-624 0.25(mm)
MB 460-534882/7		07/10/2018 10:25	1	K86361.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 10:50	1		Rtx-624 0.25(mm)
460-159285-1		07/10/2018 11:15	1	K86363.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 11:39	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:04	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:28	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:52	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 13:17	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:07	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:31	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:55	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Batch Number: 531638 Batch Start Date: 06/27/18 23:37 Batch Analyst: Malata, Andrew V

Batch Method: 5035 Batch End Date: 06/27/18 23:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-159285-C-1	PDI-16-SO-55-062 62018	5035, 8260C	T	+030.840 g	37.62 g	6.78 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159285-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-16-SO-55-06262018	460-159285-1

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159285-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159285-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/05/2018 09:49 End Date: 07/05/2018 09:49

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
460-159285-1	1	T	09:49	X	X																			
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					
ZZZZZZ			09:49																					

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159285-1

SDG No.:

Batch Number: 533592 Batch Start Date: 07/05/18 09:49 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-159285-A-1	PDI-16-SO-55-062 62018	Moisture	T	150	1.02 g	8.22 g	6.68 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	07/05/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	10:53
Date samples were removed from oven	07/06/2018
Oven Temp Out	105 Degrees C
Time Samples were removed from oven	05:15
Oven ID	3
Thermometer ID	162116
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	105 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

07/10/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: IC9266
Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
City: Latham	TAT Requested (days): 14 Days			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:							F	N	F	N	N	N		
POI-16-50-55-06262018	6/26/18	1005	G	Solid			✓						4	1
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				id										
				id										
				id										

460-159285 Chain of Custody

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/26/18 1200			6/26/18 12:00	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/26/18 1648			6/27/18 1730	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	6/27/18 1900			6/28/18 1900	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Page 172 of 174

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 169205

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 6/26/18

07/10/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159285-1

Login Number: 159285
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159285-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/10/2018 3:36:39 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 13
Lab Chronicle 14
Certification Summary 15
Method Summary 16
Sample Summary 17
Chain of Custody 18
Receipt Checklists 20

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-159285-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159285-1

Receipt
The sample was received on 6/26/2018 7:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018

Lab Sample ID: 460-159285-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	2.0	J	4.7	1.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	12		4.7	3.6	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.76	J	0.94	0.15	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	0.34	J	0.94	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	1.1		0.94	0.14	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018
Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1
Matrix: Solid
Percent Solids: 78.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.94	0.22	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2,2-Tetrachloroethane	ND		0.94	0.20	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.94	0.28	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1,2-Trichloroethane	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1-Dichloroethane	ND		0.94	0.19	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,1-Dichloroethene	ND		0.94	0.21	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2,4-Trichlorobenzene	ND		0.94	0.086	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dibromo-3-Chloropropane	ND		0.94	0.43	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichlorobenzene	ND		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichloroethane	ND		0.94	0.28	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dichloropropane	ND		0.94	0.40	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,3-Dichlorobenzene	ND		0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,4-Dichlorobenzene	ND		0.94	0.094	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
2-Butanone (MEK)	**2.0**	**J**	4.7	1.0	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
2-Hexanone	ND		4.7	0.73	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
4-Methyl-2-pentanone (MIBK)	ND		4.7	0.62	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Acetone	**12**		4.7	3.6	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Benzene	ND		0.94	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromoform	ND		0.94	0.40	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromomethane	ND		0.94	0.44	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Carbon disulfide	ND		0.94	0.25	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Carbon tetrachloride	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chlorobenzene	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Dibromochloromethane	ND		0.94	0.18	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloroethane	ND		0.94	0.49	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloroform	ND		0.94	0.30	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Chloromethane	ND		0.94	0.41	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
cis-1,2-Dichloroethene	ND		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Cyclohexane	ND		0.94	0.21	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Bromodichloromethane	ND		0.94	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Dichlorodifluoromethane	ND		0.94	0.32	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Ethylbenzene	ND		0.94	0.19	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
1,2-Dibromoethane	ND		0.94	0.17	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Isopropylbenzene	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methyl acetate	ND		4.7	4.0	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methyl tert-butyl ether	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methylcyclohexane	ND		0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Methylene Chloride	**0.76**	**J**	0.94	0.15	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Tetrachloroethene	**0.34**	**J**	0.94	0.13	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Toluene	ND		0.94	0.59	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
trans-1,2-Dichloroethene	ND		0.94	0.23	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
trans-1,3-Dichloropropene	ND		0.94	0.25	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Trichloroethene	**1.1**		0.94	0.14	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Trichlorofluoromethane	ND		0.94	0.38	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Vinyl chloride	ND		0.94	0.51	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Xylenes, Total	ND		1.9	0.24	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
cis-1,3-Dichloropropene	ND		0.94	0.26	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1
Styrene	ND		0.94	0.12	ug/Kg	☼	06/27/18 23:38	07/10/18 11:15	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018
Date Collected: 06/26/18 10:05
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159285-1
Matrix: Solid
Percent Solids: 78.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*78 - 135*	*06/27/18 23:38*	*07/10/18 11:15*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*06/27/18 23:38*	*07/10/18 11:15*	*1*
Toluene-d8 (Surr)	*103*		*73 - 121*	*06/27/18 23:38*	*07/10/18 11:15*	*1*
Dibromofluoromethane (Surr)	*107*		*61 - 149*	*06/27/18 23:38*	*07/10/18 11:15*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.4**		1.0	1.0	%			07/05/18 09:49	1
Percent Solids	**78.6**		1.0	1.0	%			07/05/18 09:49	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159285-1	PDI-16-SO-55-06262018	108	100	103	107
LCS 460-534882/3	Lab Control Sample	97	95	104	102
LCSD 460-534882/4	Lab Control Sample Dup	97	98	108	102
MB 460-534882/7	Method Blank	96	96	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534882/7
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/10/18 10:25	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/10/18 10:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/10/18 10:25	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/10/18 10:25	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/10/18 10:25	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/10/18 10:25	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/10/18 10:25	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/10/18 10:25	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/10/18 10:25	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/10/18 10:25	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/10/18 10:25	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/10/18 10:25	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/10/18 10:25	1
Acetone	ND		5.0	3.8	ug/Kg			07/10/18 10:25	1
Benzene	ND		1.0	0.26	ug/Kg			07/10/18 10:25	1
Bromoform	ND		1.0	0.43	ug/Kg			07/10/18 10:25	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/10/18 10:25	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/10/18 10:25	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/10/18 10:25	1
Chloroform	ND		1.0	0.32	ug/Kg			07/10/18 10:25	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/10/18 10:25	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/10/18 10:25	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/10/18 10:25	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/10/18 10:25	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/10/18 10:25	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/10/18 10:25	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/10/18 10:25	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/10/18 10:25	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/10/18 10:25	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/10/18 10:25	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
Methylene Chloride	ND		1.0	0.16	ug/Kg			07/10/18 10:25	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
Toluene	ND		1.0	0.63	ug/Kg			07/10/18 10:25	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/10/18 10:25	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/10/18 10:25	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/10/18 10:25	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/10/18 10:25	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/10/18 10:25	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 10:25	1
Styrene	ND		1.0	0.12	ug/Kg			07/10/18 10:25	1

QC Sample Results

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*78 - 135*		*07/10/18 10:25*	*1*
4-Bromofluorobenzene	*96*		*67 - 126*		*07/10/18 10:25*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*		*07/10/18 10:25*	*1*
Dibromofluoromethane (Surr)	*105*		*61 - 149*		*07/10/18 10:25*	*1*

Lab Sample ID: LCS 460-534882/3
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.7		ug/Kg		98	80 - 125
1,1,2,2-Tetrachloroethane	20.0	21.6		ug/Kg		108	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.7		ug/Kg		114	78 - 132
1,1,2-Trichloroethane	20.0	21.1		ug/Kg		105	76 - 124
1,1-Dichloroethane	20.0	22.1		ug/Kg		111	80 - 124
1,1-Dichloroethene	20.0	21.1		ug/Kg		106	79 - 132
1,2,4-Trichlorobenzene	20.0	19.3		ug/Kg		96	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.1		ug/Kg		90	65 - 129
1,2-Dichlorobenzene	20.0	19.4		ug/Kg		97	80 - 121
1,2-Dichloroethane	20.0	18.1		ug/Kg		91	68 - 120
1,2-Dichloropropane	20.0	22.4		ug/Kg		112	77 - 124
1,3-Dichlorobenzene	20.0	19.3		ug/Kg		96	79 - 124
1,4-Dichlorobenzene	20.0	19.3		ug/Kg		96	79 - 121
2-Butanone (MEK)	100	77.3		ug/Kg		77	61 - 140
2-Hexanone	100	91.2		ug/Kg		91	78 - 120
4-Methyl-2-pentanone (MIBK)	100	93.6		ug/Kg		94	80 - 120
Acetone	100	87.7		ug/Kg		88	75 - 120
Benzene	20.0	22.0		ug/Kg		110	75 - 127
Bromoform	20.0	15.9		ug/Kg		79	19 - 150
Bromomethane	20.0	18.2		ug/Kg		91	59 - 136
Carbon disulfide	20.0	21.8		ug/Kg		109	74 - 130
Carbon tetrachloride	20.0	19.6		ug/Kg		98	77 - 138
Chlorobenzene	20.0	19.5		ug/Kg		98	80 - 120
Dibromochloromethane	20.0	18.0		ug/Kg		90	67 - 143
Chloroethane	20.0	19.6		ug/Kg		98	50 - 139
Chloroform	20.0	19.7		ug/Kg		99	80 - 122
Chloromethane	20.0	20.2		ug/Kg		101	66 - 128
cis-1,2-Dichloroethene	20.0	20.3		ug/Kg		102	80 - 123
Cyclohexane	20.0	23.3		ug/Kg		117	67 - 135
Bromodichloromethane	20.0	18.9		ug/Kg		95	76 - 129
Dichlorodifluoromethane	20.0	17.9		ug/Kg		89	72 - 127
Ethylbenzene	20.0	20.0		ug/Kg		100	79 - 124
1,2-Dibromoethane	20.0	19.1		ug/Kg		96	80 - 122
Isopropylbenzene	20.0	20.3		ug/Kg		102	80 - 125
Methyl acetate	40.0	43.9		ug/Kg		110	73 - 123
Methyl tert-butyl ether	20.0	20.4		ug/Kg		102	80 - 120
Methylcyclohexane	20.0	23.1		ug/Kg		115	71 - 137
Methylene Chloride	20.0	20.2		ug/Kg		101	79 - 128
Tetrachloroethene	20.0	18.9		ug/Kg		95	73 - 130
Toluene	20.0	20.1		ug/Kg		101	75 - 122
trans-1,2-Dichloroethene	20.0	21.0		ug/Kg		105	80 - 129
trans-1,3-Dichloropropene	20.0	19.6		ug/Kg		98	72 - 121
Trichloroethene	20.0	20.5		ug/Kg		102	79 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534882/3
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	17.1		ug/Kg		85	68 - 136
Vinyl chloride	20.0	20.0		ug/Kg		100	70 - 134
cis-1,3-Dichloropropene	20.0	20.6		ug/Kg		103	75 - 124
Styrene	20.0	20.1		ug/Kg		101	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 135*
4-Bromofluorobenzene	*95*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*102*		*61 - 149*

Lab Sample ID: LCSD 460-534882/4
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/Kg		104	80 - 125	5	30
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/Kg		110	72 - 131	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/Kg		118	78 - 132	4	30
1,1,2-Trichloroethane	20.0	22.8		ug/Kg		114	76 - 124	8	30
1,1-Dichloroethane	20.0	23.6		ug/Kg		118	80 - 124	6	30
1,1-Dichloroethene	20.0	21.6		ug/Kg		108	79 - 132	2	30
1,2,4-Trichlorobenzene	20.0	19.7		ug/Kg		99	74 - 124	2	30
1,2-Dibromo-3-Chloropropane	20.0	19.7		ug/Kg		99	65 - 129	9	30
1,2-Dichlorobenzene	20.0	20.1		ug/Kg		101	80 - 121	3	30
1,2-Dichloroethane	20.0	19.2		ug/Kg		96	68 - 120	6	30
1,2-Dichloropropane	20.0	23.1		ug/Kg		115	77 - 124	3	30
1,3-Dichlorobenzene	20.0	20.4		ug/Kg		102	79 - 124	6	30
1,4-Dichlorobenzene	20.0	19.8		ug/Kg		99	79 - 121	3	30
2-Butanone (MEK)	100	87.6		ug/Kg		88	61 - 140	12	30
2-Hexanone	100	94.3		ug/Kg		94	78 - 120	3	30
4-Methyl-2-pentanone (MIBK)	100	98.6		ug/Kg		99	80 - 120	5	30
Acetone	100	90.8		ug/Kg		91	75 - 120	3	30
Benzene	20.0	23.4		ug/Kg		117	75 - 127	6	30
Bromoform	20.0	16.4		ug/Kg		82	19 - 150	3	30
Bromomethane	20.0	18.2		ug/Kg		91	59 - 136	0	30
Carbon disulfide	20.0	23.0		ug/Kg		115	74 - 130	5	30
Carbon tetrachloride	20.0	20.3		ug/Kg		102	77 - 138	4	30
Chlorobenzene	20.0	20.6		ug/Kg		103	80 - 120	5	30
Dibromochloromethane	20.0	18.7		ug/Kg		94	67 - 143	4	30
Chloroethane	20.0	19.4		ug/Kg		97	50 - 139	1	30
Chloroform	20.0	20.7		ug/Kg		104	80 - 122	5	30
Chloromethane	20.0	20.9		ug/Kg		104	66 - 128	3	30
cis-1,2-Dichloroethene	20.0	21.1		ug/Kg		106	80 - 123	4	30
Cyclohexane	20.0	23.4		ug/Kg		117	67 - 135	0	30
Bromodichloromethane	20.0	19.7		ug/Kg		99	76 - 129	4	30
Dichlorodifluoromethane	20.0	18.5		ug/Kg		92	72 - 127	3	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534882/4
Matrix: Solid
Analysis Batch: 534882

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	21.2		ug/Kg		106	79 - 124	6	30
1,2-Dibromoethane			20.0	20.5		ug/Kg		102	80 - 122	7	30
Isopropylbenzene			20.0	21.7		ug/Kg		109	80 - 125	7	30
Methyl acetate			40.0	45.1		ug/Kg		113	73 - 123	3	30
Methyl tert-butyl ether			20.0	21.5		ug/Kg		107	80 - 120	5	30
Methylcyclohexane			20.0	23.7		ug/Kg		119	71 - 137	3	30
Methylene Chloride			20.0	22.2		ug/Kg		111	79 - 128	10	30
Tetrachloroethene			20.0	19.7		ug/Kg		98	73 - 130	4	30
Toluene			20.0	21.6		ug/Kg		108	75 - 122	7	30
trans-1,2-Dichloroethene			20.0	21.7		ug/Kg		109	80 - 129	3	30
trans-1,3-Dichloropropene			20.0	20.5		ug/Kg		103	72 - 121	5	30
Trichloroethene			20.0	21.5		ug/Kg		107	79 - 122	5	30
Trichlorofluoromethane			20.0	18.9		ug/Kg		94	68 - 136	10	30
Vinyl chloride			20.0	20.8		ug/Kg		104	70 - 134	4	30
cis-1,3-Dichloropropene			20.0	21.5		ug/Kg		108	75 - 124	5	30
Styrene			20.0	21.1		ug/Kg		105	78 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 135*
4-Bromofluorobenzene	*98*		*67 - 126*
Toluene-d8 (Surr)	*108*		*73 - 121*
Dibromofluoromethane (Surr)	*102*		*61 - 149*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

GC/MS VOA

Prep Batch: 531638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	5035	

Analysis Batch: 534882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	8260C	531638
MB 460-534882/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-534882/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-534882/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Analysis Batch: 533592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159285-1	PDI-16-SO-55-06262018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Client Sample ID: PDI-16-SO-55-06262018 — **Lab Sample ID: 460-159285-1**
Date Collected: 06/26/18 10:05 — **Matrix: Solid**
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	533592	07/05/18 09:49	BJP	TAL EDI

Client Sample ID: PDI-16-SO-55-06262018 — **Lab Sample ID: 460-159285-1**
Date Collected: 06/26/18 10:05 — **Matrix: Solid**
Date Received: 06/26/18 19:00 — **Percent Solids: 78.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			531638	06/27/18 23:38	AVM	TAL EDI
Total/NA	Analysis	8260C		1	534882	07/10/18 11:15	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159285-1	PDI-16-SO-55-06262018	Solid	06/26/18 10:05	06/26/18 19:00

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

7/10/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: IC9266

Address: 11 British American Blvd Suite 200	Due Date Requested:	Analysis Requested	Preservation Codes:
City: Latham	TAT Requested (days): 14 Days		A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		Other:
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	F	N	F	N	N	N	X	
PDI-16-50-55-062618	6/26/18	1005	G	Solid			✓						4	1
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				id										
				id										
				id										

460-159285 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/26/18 1200			6/26/18 12:00	
2		6/26/18 1648			6/27/18 1730	
3		6/27/18 1930			6/28/18 1900	

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Page 18 of 20

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 169265

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ **Date:** 6/26/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159285-1

Login Number: 159285
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	NA: No analysis requiring residual chlorine check assigned

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159314-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/25/2018 10:56 AM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/25/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 6
- Detection Summary 7
- Method Summary 8
- Client Sample Results 9
- Surrogate Summary 15
- Isotope Dilution Summary 16
- QC Sample Results 17
- Definitions 28
- QC Association 29
- Chronicle 30
- Certification Summary 31

Organic Sample Data 32

- GC/MS VOA 32
  - 8260C 32
    - 8260C QC Summary 33
    - 8260C Sample Data 51
    - Standards Data 93
      - 8260C ICAL Data 93
      - 8260C CCAL Data 206
    - Raw QC Data 228
      - 8260C Tune Data 228
      - 8260C Blank Data 240
      - 8260C LCS/LCSD Data 249

Table of Contents

8260C Run Logs 278

8260C Prep Data 281

GC/MS Semi VOA 283

8270_SIM_14DX 283

8270_SIM_14DX QC Summary 284

8270_SIM_14DX Sample Data 290

Standards Data 294

8270_SIM_14DX ICAL Data 294

8270_SIM_14DX CCAL Data 314

Raw QC Data 319

8270_SIM_14DX Tune Data 319

8270_SIM_14DX Blank Data 333

8270_SIM_14DX LCS/LCSD Data 336

8270_SIM_14DX Run Logs 344

8270_SIM_14DX Prep Data 346

LCMS 347

Method PFC IDA 347

Method PFC IDA QC Summary 348

Method PFC IDA Sample Data 357

Standards Data 369

Method PFC IDA ICAL Data 369

Method PFC IDA CCAL Data 549

Raw QC Data 661

Method PFC IDA Blank Data 661

Method PFC IDA LCS/LCSD Data 672

Method PFC IDA Run Logs 700

Table of Contents

Method PFC IDA Prep Data 705

Shipping and Receiving Documents 707

Client Chain of Custody 708

Sample Receipt Checklist 711

Job Narrative
460-159314-1

Receipt
The samples were received on 6/26/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: PDI-MW-161-1-I-06262018 (460-159314-4) for PFAS analysis. The client was contacted regarding this issue, and the laboratory was instructed to proceed wih analysis. Received at 25.2 degrees Celsius, ice was melted.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method 537 (modified): Results for samples (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C2-PFTeDA: PDI-MW-161-1-I-06262018 (460-159314-4). Re-analysis was performed with concurring results. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-232888 and analytical batch 320-233309 were outside control limits for Perfluoroheptanesulfonic Acid (PFHpS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): Due to the high concentration of Perfluorobutanesulfonic acid (PFBS), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233309 could not be evaluated for accuracy and precision for this analyte. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside control limits: (320-40757-A-1-B MS). The sample was re-analyzed at dilution with improved ISTD response; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. The ISTD is not used to quantitate target analytes; therefore, there is no impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for several analytes in the following samples: (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD). These samples were re-analyzed at dilution with improved IDA recovery; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233780 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3535: The following sample: PDI-MW-161-1-I-06262018 (460-159314-4) were observed to be cloudy gray color after the eluting process. Prep Batch: 320-232888 Method Code: 3535_PFC

Method 3535: Due to the matrix of the following sample PDI-MW-161-1-I-06262018 (460-159314-4), a reduced amount of volume was able to go through the solid phase extraction column due to particulates in the sample,which ended up clogging the column. The reporting limits (RLs) have been adjusted proportionately for the following preparation batch 320-232888.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159314-1	PDI-TB-06262018	Water	06/26/18 00:00	06/26/18 19:00
460-159314-2	PDI-FB-06262018	Water	06/26/18 08:30	06/26/18 19:00
460-159314-3	PDI-16-WG-75-06262018	Water	06/26/18 10:30	06/26/18 19:00
460-159314-4	PDI-MW-161-1-I-06262018	Water	06/26/18 11:10	06/26/18 19:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018 — Lab Sample ID: 460-159314-1

No Detections.

Client Sample ID: PDI-FB-06262018 — Lab Sample ID: 460-159314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-16-WG-75-06262018 — Lab Sample ID: 460-159314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.7		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.58	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-MW-161-1-I-06262018 — Lab Sample ID: 460-159314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.3		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	15		1.0	0.25	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	370		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.1		1.0	0.14	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	14		4.5	0.79	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	19		4.5	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	19		4.5	1.3	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		4.5	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		4.5	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14		4.5	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.5	J	4.5	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.5	J	4.5	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5	J	4.5	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	43		4.5	1.2	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample ID: PDI-TB-06262018

Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:22	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:22	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:22	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:22	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 02:22	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:22	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 02:22	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:22	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:22	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:22	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:22	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:22	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:22	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:22	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:22	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:22	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:22	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:22	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:22	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:22	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:22	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:22	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:22	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:22	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:22	1

Client Sample ID: PDI-TB-06262018

Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:22*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 02:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 02:22*	*1*

Client Sample ID: PDI-FB-06262018

Date Collected: 06/26/18 08:30
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:45	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:45	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:45	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:45	1
2-Butanone (MEK)	**8.0**		5.0	1.9	ug/L			07/10/18 02:45	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:45	1
Acetone	**15**		5.0	5.0	ug/L			07/10/18 02:45	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:45	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:45	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:45	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:45	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:45	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:45	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:45	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:45	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:45	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:45	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
Methylene Chloride	**4.5**		1.0	0.32	ug/L			07/10/18 02:45	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:45	1

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:45	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:45	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:45	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:45	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:45	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:45*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*07/10/18 02:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 02:45*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 02:45*	*1*

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 09:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:23	1
Acetone	**7.7**		5.0	5.0	ug/L			07/10/18 09:23	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:23	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.22	ug/L			07/10/18 09:23	1

Client Sample ID: PDI-16-WG-75-06262018

Date Collected: 06/26/18 10:30
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:23	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:23	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Tetrachloroethene	**2.7**		1.0	0.25	ug/L			07/10/18 09:23	1
Toluene	**0.58**	**J**	1.0	0.38	ug/L			07/10/18 09:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:23	1
Trichloroethene	**85**		1.0	0.31	ug/L			07/10/18 09:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:23	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*		*07/10/18 09:23*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*07/10/18 09:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 09:23*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:23*	*1*

Client Sample ID: PDI-MW-161-1-I-06262018

Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 03:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 03:09	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 03:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 03:09	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 03:09	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 03:09	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 03:09	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 03:09	1
Acetone	**7.3**		5.0	5.0	ug/L			07/10/18 03:09	1

Client Sample ID: PDI-MW-161-1-I-06262018

Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 03:09	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 03:09	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 03:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 03:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 03:09	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 03:09	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 03:09	1
cis-1,2-Dichloroethene	**13**		1.0	0.22	ug/L			07/10/18 03:09	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 03:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 03:09	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 03:09	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 03:09	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 03:09	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Tetrachloroethene	**15**		1.0	0.25	ug/L			07/10/18 03:09	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.24	ug/L			07/10/18 03:09	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 03:09	1
Trichloroethene	**370**		1.0	0.31	ug/L			07/10/18 03:09	1
Trichlorofluoromethane	**1.1**		1.0	0.14	ug/L			07/10/18 03:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 03:09	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 03:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 03:09	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 03:09*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*07/10/18 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 03:09*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 03:09*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.41	0.18	ug/L		07/03/18 20:11	07/05/18 12:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**14**		4.5	0.79	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoropentanoic acid (PFPeA)	**19**		4.5	1.1	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanoic acid (PFHxA)	**19**		4.5	1.3	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanoic acid (PFHpA)	**15**		4.5	0.57	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanoic acid (PFOA)	**39**		4.5	1.9	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorononanoic acid (PFNA)	**14**		4.5	0.61	ng/L		07/07/18 09:25	07/13/18 01:28	1

Client Sample ID: PDI-MW-161-1-I-06262018
Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	**1.5**	**J**	4.5	0.70	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroundecanoic acid (PFUnA)	ND		4.5	2.5	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorododecanoic acid (PFDoA)	ND		4.5	1.2	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotridecanoic Acid (PFTriA)	ND		4.5	2.9	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		4.5	0.66	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorobutanesulfonic acid (PFBS)	**3.5**	**J**	4.5	0.45	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanesulfonic acid (PFHxS)	**3.5**	**J**	4.5	0.39	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		4.5	0.43	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanesulfonic acid (PFOS)	**43**		4.5	1.2	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.5	0.73	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctane Sulfonamide (FOSA)	ND		4.5	0.79	ng/L		07/07/18 09:25	07/13/18 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*25*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFBA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFHxA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFNA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDA	*31*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFUnA	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDoA	*26*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
18O2 PFHxS	*34*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOS	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4-PFHpA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFPeA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C3-PFBS	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2-PFTeDA	*21*	*	*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159314-1	PDI-TB-06262018	105	95	102	109
460-159314-2	PDI-FB-06262018	105	96	99	108
460-159314-3	PDI-16-WG-75-06262018	102	99	102	108
460-159314-4	PDI-MW-161-1-I-06262018	105	98	102	108
LCS 460-534740/4	Lab Control Sample	100	98	102	100
LCS 460-534889/4	Lab Control Sample	92	98	100	102
LCSD 460-534740/5	Lab Control Sample Dup	102	102	101	103
LCSD 460-534889/5	Lab Control Sample Dup	98	102	100	101
MB 460-534740/9	Method Blank	98	100	102	109
MB 460-534889/8	Method Blank	101	95	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDoA (25-150)
460-159314-4	PDI-MW-161-1-I-06262018	25	32	35	33	32	31	30	26
LCS 320-232888/2-A	Lab Control Sample	80	87	87	90	91	93	91	88
LCSD 320-232888/3-A	Lab Control Sample Dup	77	83	84	89	89	90	92	85
MB 320-232888/1-A	Method Blank	75	81	79	87	87	88	85	87

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (25-150)	PFOS (25-150)	PFHpA (25-150)	PFPeA (25-150)	3C3-PFBS (25-150)	PFTDA (25-150)		
460-159314-4	PDI-MW-161-1-I-06262018	34	30	35	33	32	21 *		
LCS 320-232888/2-A	Lab Control Sample	92	86	93	81	81	83		
LCSD 320-232888/3-A	Lab Control Sample Dup	87	86	86	82	78	80		
MB 320-232888/1-A	Method Blank	93	85	84	78	77	80		

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFHpA = 13C4-PFHpA
PFPeA = 13C5 PFPeA
13C3-PFBS = 13C3-PFBS
PFTDA = 13C2-PFTeDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534740/9
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 20:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 20:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 20:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 20:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 20:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 20:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 20:53	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 20:53	1
Acetone	ND		5.0	5.0	ug/L			07/09/18 20:53	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 20:53	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 20:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 20:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 20:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 20:53	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 20:53	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 20:53	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 20:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 20:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 20:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 20:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 20:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 20:53	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 20:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 20:53	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 20:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 20:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 20:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 20:53	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*07/09/18 20:53*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*07/09/18 20:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/09/18 20:53*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/09/18 20:53*	*1*

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		94	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		98	77 - 123
1,1-Dichloroethene	20.0	18.7		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	22.2		ug/L		111	55 - 134
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,2-Dichloroethane	20.0	18.7		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.3		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	95.4		ug/L		95	64 - 120
2-Hexanone	100	97.2		ug/L		97	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	107		ug/L		107	39 - 150
Benzene	20.0	20.2		ug/L		101	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	17.4		ug/L		87	10 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Carbon tetrachloride	20.0	19.1		ug/L		95	70 - 132
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dibromochloromethane	20.0	19.7		ug/L		98	73 - 120
Chloroethane	20.0	18.2		ug/L		91	52 - 150
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	19.3		ug/L		97	56 - 131
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	80 - 120
Cyclohexane	20.0	19.1		ug/L		95	56 - 150
Bromodichloromethane	20.0	18.6		ug/L		93	76 - 120
Dichlorodifluoromethane	20.0	18.7		ug/L		93	50 - 131
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	20.7		ug/L		104	80 - 120
Isopropylbenzene	20.0	21.1		ug/L		105	80 - 123
Methyl acetate	40.0	42.2		ug/L		106	66 - 144
Methyl tert-butyl ether	20.0	20.3		ug/L		102	79 - 122
Methylcyclohexane	20.0	18.8		ug/L		94	61 - 145
Methylene Chloride	20.0	18.7		ug/L		94	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	18.1		ug/L		90	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	18.2		ug/L		91	71 - 143
Vinyl chloride	20.0	19.0		ug/L		95	62 - 138
cis-1,3-Dichloropropene	20.0	19.9		ug/L		100	77 - 120
Styrene	20.0	20.0		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72 - 131*

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 120	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9		ug/L		89	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	78 - 120	0	30
1,1-Dichloroethane	20.0	19.1		ug/L		96	77 - 123	2	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	11	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	11	30
1,2-Dichloroethane	20.0	18.4		ug/L		92	76 - 121	2	30
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123	0	30
1,3-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	11	30
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	10	30
2-Butanone (MEK)	100	94.1		ug/L		94	64 - 120	1	30
2-Hexanone	100	93.2		ug/L		93	71 - 125	4	30
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	78 - 124	7	30
Acetone	100	111		ug/L		111	39 - 150	4	30
Benzene	20.0	19.4		ug/L		97	77 - 121	4	30
Bromoform	20.0	19.7		ug/L		99	53 - 120	1	30
Bromomethane	20.0	18.8		ug/L		94	10 - 150	8	30
Carbon disulfide	20.0	17.4		ug/L		87	69 - 133	3	30
Carbon tetrachloride	20.0	17.9		ug/L		89	70 - 132	7	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	5	30
Dibromochloromethane	20.0	18.9		ug/L		94	73 - 120	4	30
Chloroethane	20.0	18.6		ug/L		93	52 - 150	2	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	1	30
Chloromethane	20.0	19.0		ug/L		95	56 - 131	1	30
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120	0	30
Cyclohexane	20.0	18.2		ug/L		91	56 - 150	5	30
Bromodichloromethane	20.0	19.3		ug/L		96	76 - 120	4	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	50 - 131	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/L		91	80 - 120	5	30
1,2-Dibromoethane			20.0	20.2		ug/L		101	80 - 120	3	30
Isopropylbenzene			20.0	20.3		ug/L		101	80 - 123	4	30
Methyl acetate			40.0	44.0		ug/L		110	66 - 144	4	30
Methyl tert-butyl ether			20.0	20.4		ug/L		102	79 - 122	0	30
Methylcyclohexane			20.0	18.2		ug/L		91	61 - 145	3	30
Methylene Chloride			20.0	19.2		ug/L		96	77 - 123	3	30
Tetrachloroethene			20.0	18.8		ug/L		94	78 - 122	4	30
Toluene			20.0	19.1		ug/L		96	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	18.5		ug/L		92	79 - 120	8	30
trans-1,3-Dichloropropene			20.0	19.0		ug/L		95	76 - 120	0	30
Trichloroethene			20.0	17.9		ug/L		89	77 - 120	1	30
Trichlorofluoromethane			20.0	18.0		ug/L		90	71 - 143	1	30
Vinyl chloride			20.0	18.8		ug/L		94	62 - 138	1	30
cis-1,3-Dichloropropene			20.0	19.5		ug/L		97	77 - 120	2	30
Styrene			20.0	19.7		ug/L		99	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 08:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 08:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 08:59	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 08:59	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 08:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 08:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 08:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 08:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 08:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 08:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 08:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 08:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 08:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 08:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 08:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 08:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 08:59	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 08:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 08:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 08:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 08:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*07/10/18 08:59*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 08:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/10/18 08:59*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/10/18 08:59*	*1*

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		100	77 - 123
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	80 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		89	55 - 134
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	76 - 121
1,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 123
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
2-Butanone (MEK)	100	98.4		ug/L		98	64 - 120
2-Hexanone	100	92.0		ug/L		92	71 - 125
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	78 - 124
Acetone	100	98.1		ug/L		98	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	19.5		ug/L		97	53 - 120
Bromomethane	20.0	20.1		ug/L		100	10 - 150
Carbon disulfide	20.0	19.8		ug/L		99	69 - 133
Carbon tetrachloride	20.0	20.3		ug/L		102	70 - 132
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120
Chloroethane	20.0	18.9		ug/L		95	52 - 150
Chloroform	20.0	20.2		ug/L		101	80 - 120
Chloromethane	20.0	19.9		ug/L		100	56 - 131
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 120
Cyclohexane	20.0	21.2		ug/L		106	56 - 150
Bromodichloromethane	20.0	18.9		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	21.7		ug/L		108	50 - 131
Ethylbenzene	20.0	19.3		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 120
Isopropylbenzene	20.0	21.2		ug/L		106	80 - 123
Methyl acetate	40.0	40.1		ug/L		100	66 - 144
Methyl tert-butyl ether	20.0	19.2		ug/L		96	79 - 122
Methylcyclohexane	20.0	21.7		ug/L		109	61 - 145
Methylene Chloride	20.0	19.6		ug/L		98	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.2		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	19.4		ug/L		97	77 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	20.7		ug/L		103	62 - 138
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	77 - 120
Styrene	20.0	20.5		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	19.4		ug/L		97	75 - 125	3	30
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		97	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	21.0		ug/L		105	59 - 150	0	30
1,1,2-Trichloroethane			20.0	19.1		ug/L		95	78 - 120	2	30
1,1-Dichloroethane			20.0	18.8		ug/L		94	77 - 123	6	30
1,1-Dichloroethene			20.0	19.3		ug/L		97	74 - 123	3	30
1,2,4-Trichlorobenzene			20.0	19.6		ug/L		98	80 - 124	1	30
1,2-Dibromo-3-Chloropropane			20.0	17.6		ug/L		88	55 - 134	1	30
1,2-Dichlorobenzene			20.0	20.3		ug/L		102	80 - 120	1	30
1,2-Dichloroethane			20.0	17.1		ug/L		85	76 - 121	5	30
1,2-Dichloropropane			20.0	19.5		ug/L		98	77 - 123	0	30
1,3-Dichlorobenzene			20.0	19.9		ug/L		99	80 - 120	2	30
1,4-Dichlorobenzene			20.0	19.8		ug/L		99	80 - 120	2	30
2-Butanone (MEK)			100	93.9		ug/L		94	64 - 120	5	30
2-Hexanone			100	93.5		ug/L		94	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)			100	108		ug/L		108	78 - 124	0	30
Acetone			100	92.2		ug/L		92	39 - 150	6	30
Benzene			20.0	20.1		ug/L		100	77 - 121	3	30
Bromoform			20.0	18.7		ug/L		94	53 - 120	4	30
Bromomethane			20.0	17.7		ug/L		88	10 - 150	13	30
Carbon disulfide			20.0	18.7		ug/L		94	69 - 133	6	30
Carbon tetrachloride			20.0	19.8		ug/L		99	70 - 132	3	30
Chlorobenzene			20.0	19.2		ug/L		96	80 - 120	3	30
Dibromochloromethane			20.0	18.3		ug/L		92	73 - 120	3	30
Chloroethane			20.0	18.0		ug/L		90	52 - 150	5	30
Chloroform			20.0	19.6		ug/L		98	80 - 120	3	30
Chloromethane			20.0	17.5		ug/L		88	56 - 131	13	30
cis-1,2-Dichloroethene			20.0	19.4		ug/L		97	80 - 120	6	30
Cyclohexane			20.0	20.5		ug/L		103	56 - 150	3	30
Bromodichloromethane			20.0	18.4		ug/L		92	76 - 120	3	30
Dichlorodifluoromethane			20.0	19.5		ug/L		98	50 - 131	10	30
Ethylbenzene			20.0	18.5		ug/L		93	80 - 120	4	30
1,2-Dibromoethane			20.0	19.4		ug/L		97	80 - 120	1	30
Isopropylbenzene			20.0	20.6		ug/L		103	80 - 123	3	30
Methyl acetate			40.0	39.3		ug/L		98	66 - 144	2	30
Methyl tert-butyl ether			20.0	18.6		ug/L		93	79 - 122	3	30
Methylcyclohexane			20.0	20.2		ug/L		101	61 - 145	7	30
Methylene Chloride			20.0	19.0		ug/L		95	77 - 123	3	30
Tetrachloroethene			20.0	19.8		ug/L		99	78 - 122	3	30
Toluene			20.0	19.7		ug/L		99	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	19.0		ug/L		95	79 - 120	5	30
trans-1,3-Dichloropropene			20.0	18.3		ug/L		92	76 - 120	4	30
Trichloroethene			20.0	19.2		ug/L		96	77 - 120	1	30
Trichlorofluoromethane			20.0	19.1		ug/L		95	71 - 143	11	30
Vinyl chloride			20.0	18.2		ug/L		91	62 - 138	13	30
cis-1,3-Dichloropropene			20.0	18.7		ug/L		93	77 - 120	4	30
Styrene			20.0	20.0		ug/L		100	80 - 120	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-533324/1-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/03/18 20:11	07/05/18 10:02	1

Lab Sample ID: LCS 460-533324/6-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.245	J	ug/L		31	10 - 137

Lab Sample ID: LCSD 460-533324/7-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.240	J	ug/L		30	10 - 137	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17	ng/L		07/07/18 09:25	07/11/18 01:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFBA	*81*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFHxA	*79*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFNA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDA	*88*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFUnA	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDoA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
18O2 PFHxS	*93*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOS	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4-PFHpA	*84*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFPeA	*78*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C3-PFBS	*77*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2-PFTeDA	*80*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	37.4		ng/L		93	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	64 - 124
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.6		ng/L		94	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	38.4		ng/L		96	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0		ng/L		82	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8		ng/L		93	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9		ng/L		102	67 - 127

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6		ng/L		92	68 - 128
Perfluorooctane Sulfonamide (FOSA)	40.0	40.0		ng/L		100	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*80*		*25 - 150*
13C4 PFBA	*87*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*93*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C3-PFBS	*81*		*25 - 150*
13C2-PFTeDA	*83*		*25 - 150*

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	36.7		ng/L		92	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	40.0	36.2		ng/L		90	66 - 126	6	30
Perfluorohexanoic acid (PFHxA)	40.0	38.0		ng/L		95	66 - 126	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.8		ng/L		97	66 - 126	4	30
Perfluorooctanoic acid (PFOA)	40.0	39.9		ng/L		100	64 - 124	2	30
Perfluorononanoic acid (PFNA)	40.0	39.1		ng/L		98	68 - 128	3	30
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	69 - 129	3	30
Perfluoroundecanoic acid (PFUnA)	40.0	35.3		ng/L		88	60 - 120	3	30
Perfluorododecanoic acid (PFDoA)	40.0	38.1		ng/L		95	71 - 131	1	30
Perfluorotridecanoic Acid (PFTriA)	40.0	33.1		ng/L		83	72 - 132	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.1		ng/L		95	68 - 128	1	30
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3		ng/L		97	73 - 133	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8		ng/L		90	63 - 123	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1		ng/L		100	68 - 128	7	30
Perfluorooctanesulfonic acid (PFOS)	37.1	35.0		ng/L		94	67 - 127	8	30
Perfluorodecanesulfonic acid (PFDS)	38.6	34.3		ng/L		89	68 - 128	4	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonamide (FOSA)			40.0	38.0		ng/L		95	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*77*		*25 - 150*
13C4 PFBA	*83*		*25 - 150*
13C2 PFHxA	*84*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*90*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*86*		*25 - 150*
13C5 PFPeA	*82*		*25 - 150*
13C3-PFBS	*78*		*25 - 150*
13C2-PFTeDA	*80*		*25 - 150*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 534740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-1	PDI-TB-06262018	Total/NA	Water	8260C	
460-159314-2	PDI-FB-06262018	Total/NA	Water	8260C	
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8260C	
MB 460-534740/9	Method Blank	Total/NA	Water	8260C	
LCS 460-534740/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534740/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 534889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-3	PDI-16-WG-75-06262018	Total/NA	Water	8260C	
MB 460-534889/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534889/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534889/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 533324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3510C	
MB 460-533324/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 533482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8270C	533324
MB 460-533324/1-A	Method Blank	Total/NA	Water	8270C	533324
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	8270C	533324
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	8270C	533324

LCMS

Prep Batch: 232888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3535	
MB 320-232888/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 233309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-232888/1-A	Method Blank	Total/NA	Water	537 (modified)	232888
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	232888
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	232888

Analysis Batch: 233780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	537 (modified)	232888

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Lab Sample ID: 460-159314-1
Date Collected: 06/26/18 00:00
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:22	VBP	TAL EDI

Client Sample ID: PDI-FB-06262018
Lab Sample ID: 460-159314-2
Date Collected: 06/26/18 08:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:45	VBP	TAL EDI

Client Sample ID: PDI-16-WG-75-06262018
Lab Sample ID: 460-159314-3
Date Collected: 06/26/18 10:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534889	07/10/18 09:23	CJM	TAL EDI

Client Sample ID: PDI-MW-161-1-I-06262018
Lab Sample ID: 460-159314-4
Date Collected: 06/26/18 11:10
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 03:09	VBP	TAL EDI
Total/NA	Prep	3510C			533324	07/03/18 20:11	GXY	TAL EDI
Total/NA	Analysis	8270C		1	533482	07/05/18 12:09	SK	TAL EDI
Total/NA	Prep	3535			232888	07/07/18 09:25	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	233780	07/13/18 01:28	JRB	TAL SAC

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159314-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
ANAB	DoD ELAP		L2468	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-19
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18 *
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-18 *
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06262018	460-159314-1	109	105	102	95
PDI-FB-06262018	460-159314-2	108	105	99	96
PDI-16-WG-75-06262018	460-159314-3	108	102	102	99
PDI-MW-161-1-I-06262018	460-159314-4	108	105	102	98
	MB 460-534740/9	109	98	102	100
	MB 460-534889/8	104	101	100	95
	LCS 460-534740/4	100	100	102	98
	LCS 460-534889/4	102	92	100	98
	LCSD 460-534740/5	103	102	101	102
	LCSD 460-534889/5	101	98	100	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67495.D

Lab ID: LCS 460-534740/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.5	93	75-125	
1,1,2,2-Tetrachloroethane	20.0	21.8	109	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9	94	59-150	
1,1,2-Trichloroethane	20.0	20.2	101	78-120	
1,1-Dichloroethane	20.0	19.5	98	77-123	
1,1-Dichloroethene	20.0	18.7	94	74-123	
1,2,4-Trichlorobenzene	20.0	21.8	109	80-124	
1,2-Dibromo-3-Chloropropane	20.0	22.2	111	55-134	
1,2-Dichlorobenzene	20.0	21.6	108	80-120	
1,2-Dichloroethane	20.0	18.7	93	76-121	
1,2-Dichloropropane	20.0	19.3	97	77-123	
1,3-Dichlorobenzene	20.0	20.8	104	80-120	
1,4-Dichlorobenzene	20.0	21.2	106	80-120	
2-Butanone (MEK)	100	95.4	95	64-120	
2-Hexanone	100	97.2	97	71-125	
4-Methyl-2-pentanone (MIBK)	100	109	109	78-124	
Acetone	100	107	107	39-150	
Benzene	20.0	20.2	101	77-121	
Bromoform	20.0	20.0	100	53-120	
Bromomethane	20.0	17.4	87	10-150	
Carbon disulfide	20.0	17.9	89	69-133	
Carbon tetrachloride	20.0	19.1	95	70-132	
Chlorobenzene	20.0	19.6	98	80-120	
Dibromochloromethane	20.0	19.7	98	73-120	
Chloroethane	20.0	18.2	91	52-150	
Chloroform	20.0	19.4	97	80-120	
Chloromethane	20.0	19.3	97	56-131	
cis-1,2-Dichloroethene	20.0	19.1	95	80-120	
Cyclohexane	20.0	19.1	95	56-150	
Bromodichloromethane	20.0	18.6	93	76-120	
Dichlorodifluoromethane	20.0	18.7	93	50-131	
Ethylbenzene	20.0	19.1	96	80-120	
1,2-Dibromoethane	20.0	20.7	104	80-120	
Isopropylbenzene	20.0	21.1	105	80-123	
Methyl acetate	40.0	42.2	106	66-144	
Methyl tert-butyl ether	20.0	20.3	102	79-122	
Methylcyclohexane	20.0	18.8	94	61-145	
Methylene Chloride	20.0	18.7	94	77-123	
Tetrachloroethene	20.0	19.7	98	78-122	
Toluene	20.0	20.0	100	80-120	
trans-1,2-Dichloroethene	20.0	20.1	100	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67495.D

Lab ID: LCS 460-534740/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.1	96	76-120	
Trichloroethene	20.0	18.1	90	77-120	
Trichlorofluoromethane	20.0	18.2	91	71-143	
Vinyl chloride	20.0	19.0	95	62-138	
cis-1,3-Dichloropropene	20.0	19.9	100	77-120	
Styrene	20.0	20.0	100	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67527.D

Lab ID: LCS 460-534889/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.1	100	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.9	100	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	59-150	
1,1,2-Trichloroethane	20.0	19.5	98	78-120	
1,1-Dichloroethane	20.0	19.9	100	77-123	
1,1-Dichloroethene	20.0	20.0	100	74-123	
1,2,4-Trichlorobenzene	20.0	19.7	99	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	55-134	
1,2-Dichlorobenzene	20.0	20.6	103	80-120	
1,2-Dichloroethane	20.0	18.0	90	76-121	
1,2-Dichloropropane	20.0	19.6	98	77-123	
1,3-Dichlorobenzene	20.0	20.3	101	80-120	
1,4-Dichlorobenzene	20.0	20.1	101	80-120	
2-Butanone (MEK)	100	98.4	98	64-120	
2-Hexanone	100	92.0	92	71-125	
4-Methyl-2-pentanone (MIBK)	100	107	107	78-124	
Acetone	100	98.1	98	39-150	
Benzene	20.0	20.7	104	77-121	
Bromoform	20.0	19.5	97	53-120	
Bromomethane	20.0	20.1	100	10-150	
Carbon disulfide	20.0	19.8	99	69-133	
Carbon tetrachloride	20.0	20.3	102	70-132	
Chlorobenzene	20.0	19.8	99	80-120	
Dibromochloromethane	20.0	19.0	95	73-120	
Chloroethane	20.0	18.9	95	52-150	
Chloroform	20.0	20.2	101	80-120	
Chloromethane	20.0	19.9	100	56-131	
cis-1,2-Dichloroethene	20.0	20.5	103	80-120	
Cyclohexane	20.0	21.2	106	56-150	
Bromodichloromethane	20.0	18.9	95	76-120	
Dichlorodifluoromethane	20.0	21.7	108	50-131	
Ethylbenzene	20.0	19.3	96	80-120	
1,2-Dibromoethane	20.0	19.7	99	80-120	
Isopropylbenzene	20.0	21.2	106	80-123	
Methyl acetate	40.0	40.1	100	66-144	
Methyl tert-butyl ether	20.0	19.2	96	79-122	
Methylcyclohexane	20.0	21.7	109	61-145	
Methylene Chloride	20.0	19.6	98	77-123	
Tetrachloroethene	20.0	20.4	102	78-122	
Toluene	20.0	20.2	101	80-120	
trans-1,2-Dichloroethene	20.0	19.9	99	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67527.D

Lab ID: LCS 460-534889/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.1	96	76-120	
Trichloroethene	20.0	19.4	97	77-120	
Trichlorofluoromethane	20.0	21.3	106	71-143	
Vinyl chloride	20.0	20.7	103	62-138	
cis-1,3-Dichloropropene	20.0	19.4	97	77-120	
Styrene	20.0	20.5	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67496.D

Lab ID: LCSD 460-534740/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	17.9	89	3	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	20.6	103	6	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9	89	5	30	59-150	
1,1,2-Trichloroethane	20.0	20.1	101	0	30	78-120	
1,1-Dichloroethane	20.0	19.1	96	2	30	77-123	
1,1-Dichloroethene	20.0	18.2	91	3	30	74-123	
1,2,4-Trichlorobenzene	20.0	19.6	98	11	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	11	30	55-134	
1,2-Dichlorobenzene	20.0	19.4	97	11	30	80-120	
1,2-Dichloroethane	20.0	18.4	92	2	30	76-121	
1,2-Dichloropropane	20.0	19.4	97	0	30	77-123	
1,3-Dichlorobenzene	20.0	18.7	93	11	30	80-120	
1,4-Dichlorobenzene	20.0	19.2	96	10	30	80-120	
2-Butanone (MEK)	100	94.1	94	1	30	64-120	
2-Hexanone	100	93.2	93	4	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	102	102	7	30	78-124	
Acetone	100	111	111	4	30	39-150	
Benzene	20.0	19.4	97	4	30	77-121	
Bromoform	20.0	19.7	99	1	30	53-120	
Bromomethane	20.0	18.8	94	8	30	10-150	
Carbon disulfide	20.0	17.4	87	3	30	69-133	
Carbon tetrachloride	20.0	17.9	89	7	30	70-132	
Chlorobenzene	20.0	18.7	94	5	30	80-120	
Dibromochloromethane	20.0	18.9	94	4	30	73-120	
Chloroethane	20.0	18.6	93	2	30	52-150	
Chloroform	20.0	19.6	98	1	30	80-120	
Chloromethane	20.0	19.0	95	1	30	56-131	
cis-1,2-Dichloroethene	20.0	19.0	95	0	30	80-120	
Cyclohexane	20.0	18.2	91	5	30	56-150	
Bromodichloromethane	20.0	19.3	96	4	30	76-120	
Dichlorodifluoromethane	20.0	18.5	92	1	30	50-131	
Ethylbenzene	20.0	18.2	91	5	30	80-120	
1,2-Dibromoethane	20.0	20.2	101	3	30	80-120	
Isopropylbenzene	20.0	20.3	101	4	30	80-123	
Methyl acetate	40.0	44.0	110	4	30	66-144	
Methyl tert-butyl ether	20.0	20.4	102	0	30	79-122	
Methylcyclohexane	20.0	18.2	91	3	30	61-145	
Methylene Chloride	20.0	19.2	96	3	30	77-123	
Tetrachloroethene	20.0	18.8	94	4	30	78-122	
Toluene	20.0	19.1	96	4	30	80-120	
trans-1,2-Dichloroethene	20.0	18.5	92	8	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67496.D

Lab ID: LCSD 460-534740/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.0	95	0	30	76-120	
Trichloroethene	20.0	17.9	89	1	30	77-120	
Trichlorofluoromethane	20.0	18.0	90	1	30	71-143	
Vinyl chloride	20.0	18.8	94	1	30	62-138	
cis-1,3-Dichloropropene	20.0	19.5	97	2	30	77-120	
Styrene	20.0	19.7	99	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67528.D

Lab ID: LCSD 460-534889/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.4	97	3	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.5	97	2	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	0	30	59-150	
1,1,2-Trichloroethane	20.0	19.1	95	2	30	78-120	
1,1-Dichloroethane	20.0	18.8	94	6	30	77-123	
1,1-Dichloroethene	20.0	19.3	97	3	30	74-123	
1,2,4-Trichlorobenzene	20.0	19.6	98	1	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.6	88	1	30	55-134	
1,2-Dichlorobenzene	20.0	20.3	102	1	30	80-120	
1,2-Dichloroethane	20.0	17.1	85	5	30	76-121	
1,2-Dichloropropane	20.0	19.5	98	0	30	77-123	
1,3-Dichlorobenzene	20.0	19.9	99	2	30	80-120	
1,4-Dichlorobenzene	20.0	19.8	99	2	30	80-120	
2-Butanone (MEK)	100	93.9	94	5	30	64-120	
2-Hexanone	100	93.5	94	2	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	108	108	0	30	78-124	
Acetone	100	92.2	92	6	30	39-150	
Benzene	20.0	20.1	100	3	30	77-121	
Bromoform	20.0	18.7	94	4	30	53-120	
Bromomethane	20.0	17.7	88	13	30	10-150	
Carbon disulfide	20.0	18.7	94	6	30	69-133	
Carbon tetrachloride	20.0	19.8	99	3	30	70-132	
Chlorobenzene	20.0	19.2	96	3	30	80-120	
Dibromochloromethane	20.0	18.3	92	3	30	73-120	
Chloroethane	20.0	18.0	90	5	30	52-150	
Chloroform	20.0	19.6	98	3	30	80-120	
Chloromethane	20.0	17.5	88	13	30	56-131	
cis-1,2-Dichloroethene	20.0	19.4	97	6	30	80-120	
Cyclohexane	20.0	20.5	103	3	30	56-150	
Bromodichloromethane	20.0	18.4	92	3	30	76-120	
Dichlorodifluoromethane	20.0	19.5	98	10	30	50-131	
Ethylbenzene	20.0	18.5	93	4	30	80-120	
1,2-Dibromoethane	20.0	19.4	97	1	30	80-120	
Isopropylbenzene	20.0	20.6	103	3	30	80-123	
Methyl acetate	40.0	39.3	98	2	30	66-144	
Methyl tert-butyl ether	20.0	18.6	93	3	30	79-122	
Methylcyclohexane	20.0	20.2	101	7	30	61-145	
Methylene Chloride	20.0	19.0	95	3	30	77-123	
Tetrachloroethene	20.0	19.8	99	3	30	78-122	
Toluene	20.0	19.7	99	2	30	80-120	
trans-1,2-Dichloroethene	20.0	19.0	95	5	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67528.D

Lab ID: LCSD 460-534889/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.3	92	4	30	76-120	
Trichloroethene	20.0	19.2	96	1	30	77-120	
Trichlorofluoromethane	20.0	19.1	95	11	30	71-143	
Vinyl chloride	20.0	18.2	91	13	30	62-138	
cis-1,3-Dichloropropene	20.0	18.7	93	4	30	77-120	
Styrene	20.0	20.0	100	2	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67500.D Lab Sample ID: MB 460-534740/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS6 Date Analyzed: 07/09/2018 20:53

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534740/4	F67495.D	07/09/2018 18:55
	LCSD 460-534740/5	F67496.D	07/09/2018 19:19
PDI-TB-06262018	460-159314-1	F67514.D	07/10/2018 02:22
PDI-FB-06262018	460-159314-2	F67515.D	07/10/2018 02:45
PDI-MW-161-1-I-06262018	460-159314-4	F67516.D	07/10/2018 03:09

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67531.D Lab Sample ID: MB 460-534889/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS6 Date Analyzed: 07/10/2018 08:59

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534889/4	F67527.D	07/10/2018 07:24
	LCSD 460-534889/5	F67528.D	07/10/2018 07:48
PDI-16-WG-75-06262018	460-159314-3	F67532.D	07/10/2018 09:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67406.D BFB Injection Date: 07/08/2018

Instrument ID: CVOAMS6 BFB Injection Time: 07:26

Analysis Batch No.: 534406

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	84.2	
175	5.0 - 9.0 % of mass 174	7.0	(8.4) 1
176	95.0 - 101.0 % of mass 174	82.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	4.8	(5.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-534406/3	F67408.D	07/08/2018	08:14
	STD1 460-534406/4	F67409.D	07/08/2018	08:37
	STD5 460-534406/5	F67410.D	07/08/2018	09:01
	STD20 460-534406/6	F67411.D	07/08/2018	09:24
	STD50 460-534406/7	F67412.D	07/08/2018	09:47
	STD200 460-534406/8	F67413.D	07/08/2018	10:11
	STD500 460-534406/9	F67414.D	07/08/2018	10:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67492.D BFB Injection Date: 07/09/2018

Instrument ID: CVOAMS6 BFB Injection Time: 17:40

Analysis Batch No.: 534740

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	48.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	77.5	
175	5.0 - 9.0 % of mass 174	6.4	(8.3) 1
176	95.0 - 101.0 % of mass 174	77.8	(100.3) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534740/3	F67494.D	07/09/2018	18:27
	LCS 460-534740/4	F67495.D	07/09/2018	18:55
	LCSD 460-534740/5	F67496.D	07/09/2018	19:19
	MB 460-534740/9	F67500.D	07/09/2018	20:53
PDI-TB-06262018	460-159314-1	F67514.D	07/10/2018	02:22
PDI-FB-06262018	460-159314-2	F67515.D	07/10/2018	02:45
PDI-MW-161-1-I-06262018	460-159314-4	F67516.D	07/10/2018	03:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67524.D BFB Injection Date: 07/10/2018

Instrument ID: CVOAMS6 BFB Injection Time: 06:12

Analysis Batch No.: 534889

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	85.2	
175	5.0 - 9.0 % of mass 174	7.1	(8.3) 1
176	95.0 - 101.0 % of mass 174	81.0	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534889/3	F67526.D	07/10/2018	06:57
	LCS 460-534889/4	F67527.D	07/10/2018	07:24
	LCSD 460-534889/5	F67528.D	07/10/2018	07:48
	MB 460-534889/8	F67531.D	07/10/2018	08:59
PDI-16-WG-75-06262018	460-159314-3	F67532.D	07/10/2018	09:23

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534740/3 Date Analyzed: 07/09/2018 18:27

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67494.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		137451	3.20	172110	4.24	376714	5.32
UPPER LIMIT		274902	3.70	344220	4.74	753428	5.82
LOWER LIMIT		68726	2.70	86055	3.74	188357	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534740/4		150018	3.20	173705	4.24	402880	5.32
LCSD 460-534740/5		145161	3.19	177548	4.24	385357	5.32
MB 460-534740/9		133811	3.19	149347	4.25	372443	5.32
460-159314-1	PDI-TB-06262018	104446	3.19	126045	4.24	329125	5.32
460-159314-2	PDI-FB-06262018	113086	3.19	127161	4.25	339178	5.32
460-159314-4	PDI-MW-161-1-I-06262018	116721	3.19	128909	4.24	344686	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534740/3 Date Analyzed: 07/09/2018 18:27

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67494.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13210	6.03	265379	8.76	151135	10.91
UPPER LIMIT		26420	6.53	530758	9.26	302270	11.41
LOWER LIMIT		6605	5.53	132690	8.26	75568	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534740/4		12144	6.03	276311	8.76	151795	10.91
LCSD 460-534740/5		13097	6.03	270437	8.76	159938	10.91
MB 460-534740/9		11252	6.02	244887	8.76	136955	10.91
460-159314-1	PDI-TB-06262018	6781	6.05	222905	8.76	125058	10.91
460-159314-2	PDI-FB-06262018	6989	6.04	227972	8.76	128297	10.91
460-159314-4	PDI-MW-161-1-I-06262018	9397	6.05	231638	8.76	130155	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534889/3 Date Analyzed: 07/10/2018 06:57

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67526.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		121188	3.20	145426	4.24	357893	5.32
UPPER LIMIT		242376	3.70	290852	4.74	715786	5.82
LOWER LIMIT		60594	2.70	72713	3.74	178947	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534889/4		111600	3.20	147661	4.24	369968	5.32
LCSD 460-534889/5		114435	3.19	146699	4.24	378570	5.32
MB 460-534889/8		130292	3.20	141829	4.25	365448	5.33
460-159314-3	PDI-16-WG-75-06262018	119259	3.20	140232	4.24	358552	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534889/3 Date Analyzed: 07/10/2018 06:57

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67526.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		12896	6.02	252815	8.76	151493	10.91
UPPER LIMIT		25792	6.52	505630	9.26	302986	11.41
LOWER LIMIT		6448	5.52	126408	8.26	75747	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534889/4		9519	6.04	257849	8.76	149452	10.91
LCSD 460-534889/5		10575	6.02	265711	8.76	152234	10.91
MB 460-534889/8		11293	6.04	241867	8.76	134703	10.91
460-159314-3	PDI-16-WG-75-06262018	10158	6.04	239507	8.76	130905	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-TB-06262018 | Lab Sample ID: 460-159314-1

Matrix: Water | Lab File ID: F67514.D

Analysis Method: 8260C | Date Collected: 06/26/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-TB-06262018 | Lab Sample ID: 460-159314-1

Matrix: Water | Lab File ID: F67514.D

Analysis Method: 8260C | Date Collected: 06/26/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D
Lims ID: 460-159314-B-1
Client ID: PDI-TB-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 02:22:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-1
Misc. Info.: 460-0075142-023
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:32:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.185	3.201	-0.016	0	104446	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	126045	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	89249	54.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	91815	52.4	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	329125	50.0	
* 67 1,4-Dioxane-d8	96	6.052	6.028	0.024	0	6781	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	98	312910	50.9	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	222905	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	94	85450	47.5	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	95	125058	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

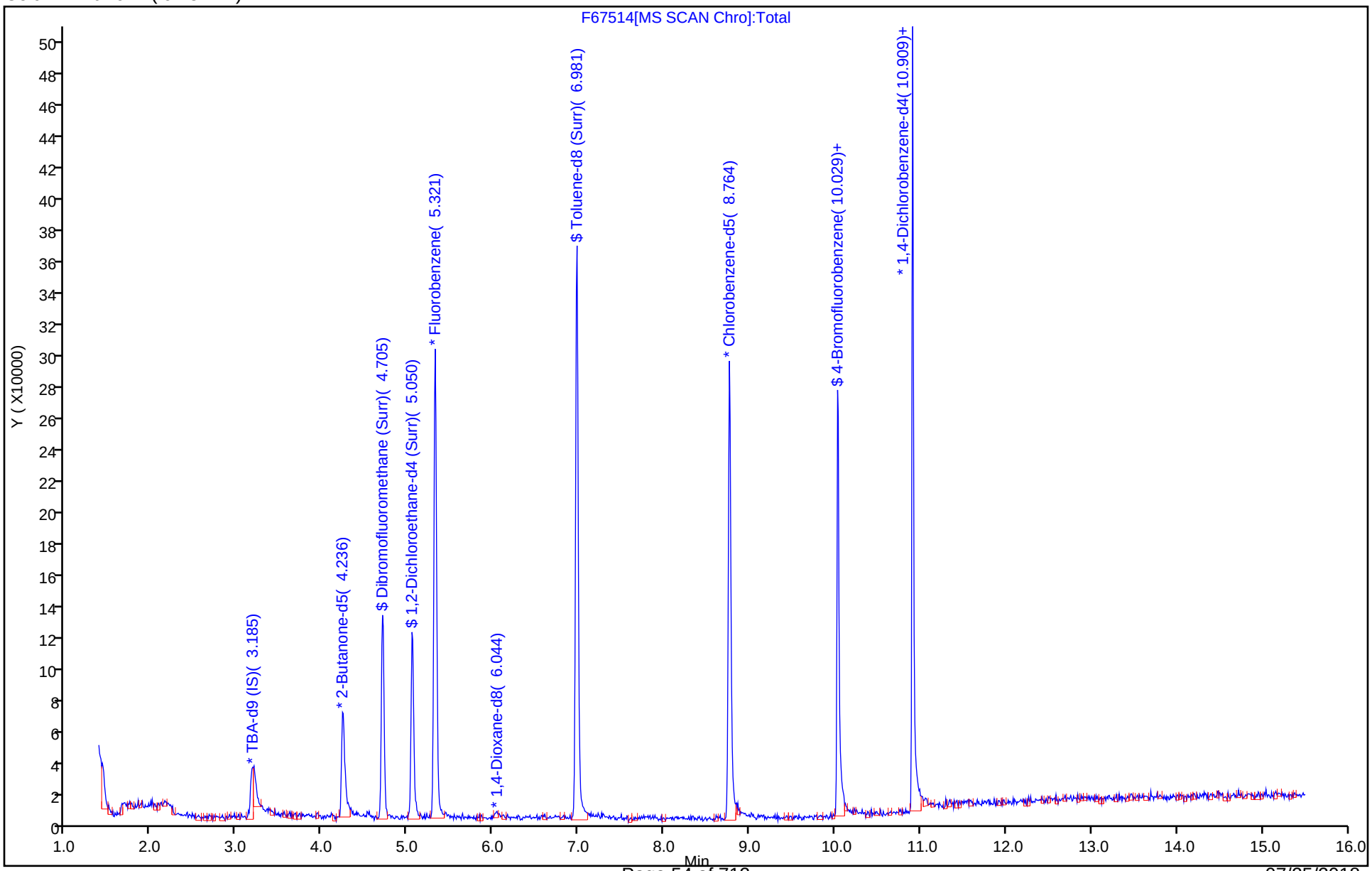
Report Date: 10-Jul-2018 06:34:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D

Injection Date:	10-Jul-2018 02:22:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-1	Lab Sample ID:	460-159314-1	Worklist Smp#:	23
Client ID:	PDI-TB-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



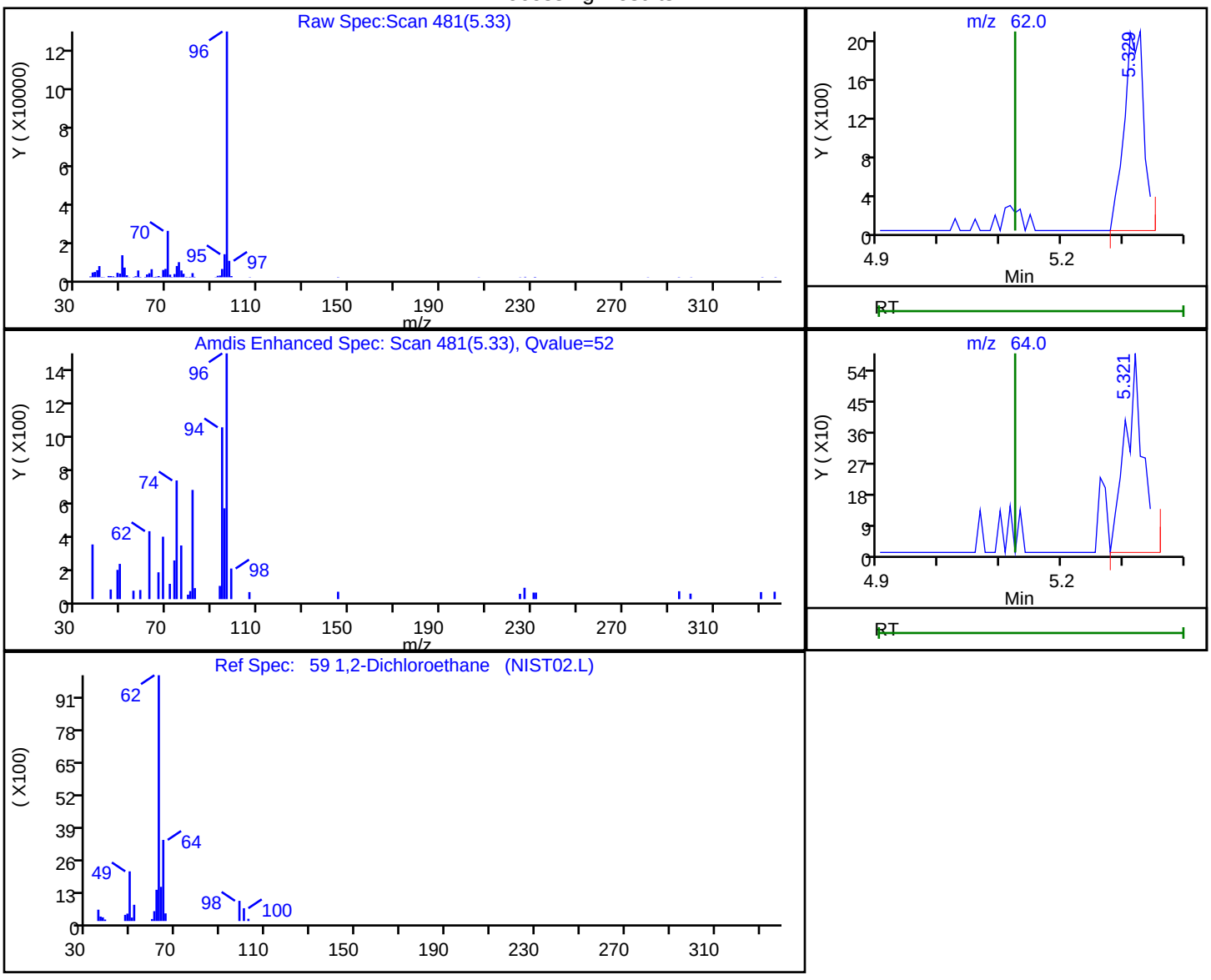
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D		
Injection Date:	10-Jul-2018 02:22:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-1	Lab Sample ID:	460-159314-1
Client ID:	PDI-TB-06262018		
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.33	62.00	4613	0.947714
5.32	64.00	1209	

Reviewer: moroneyc, 10-Jul-2018 06:31:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-FB-06262018 | Lab Sample ID: 460-159314-2

Matrix: Water | Lab File ID: F67515.D

Analysis Method: 8260C | Date Collected: 06/26/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	8.0		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	15		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-FB-06262018 | Lab Sample ID: 460-159314-2

Matrix: Water | Lab File ID: F67515.D

Analysis Method: 8260C | Date Collected: 06/26/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	4.5		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	96		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D
Lims ID: 460-159314-B-2
Client ID: PDI-FB-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 02:45:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-2
Misc. Info.: 460-0075142-024
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:32:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.848	2.839	0.009	88	10740	14.8	
27 Methylene Chloride	84	3.193	3.185	0.008	89	21854	4.53	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	113086	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	127161	250.0	
41 2-Butanone (MEK)	72	4.310	4.286	0.024	76	2693	7.99	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	91006	53.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	95141	52.7	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	339178	50.0	
* 67 1,4-Dioxane-d8	96	6.044	6.028	0.016	0	6989	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	310672	49.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	227972	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	96	88050	47.8	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	128297	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

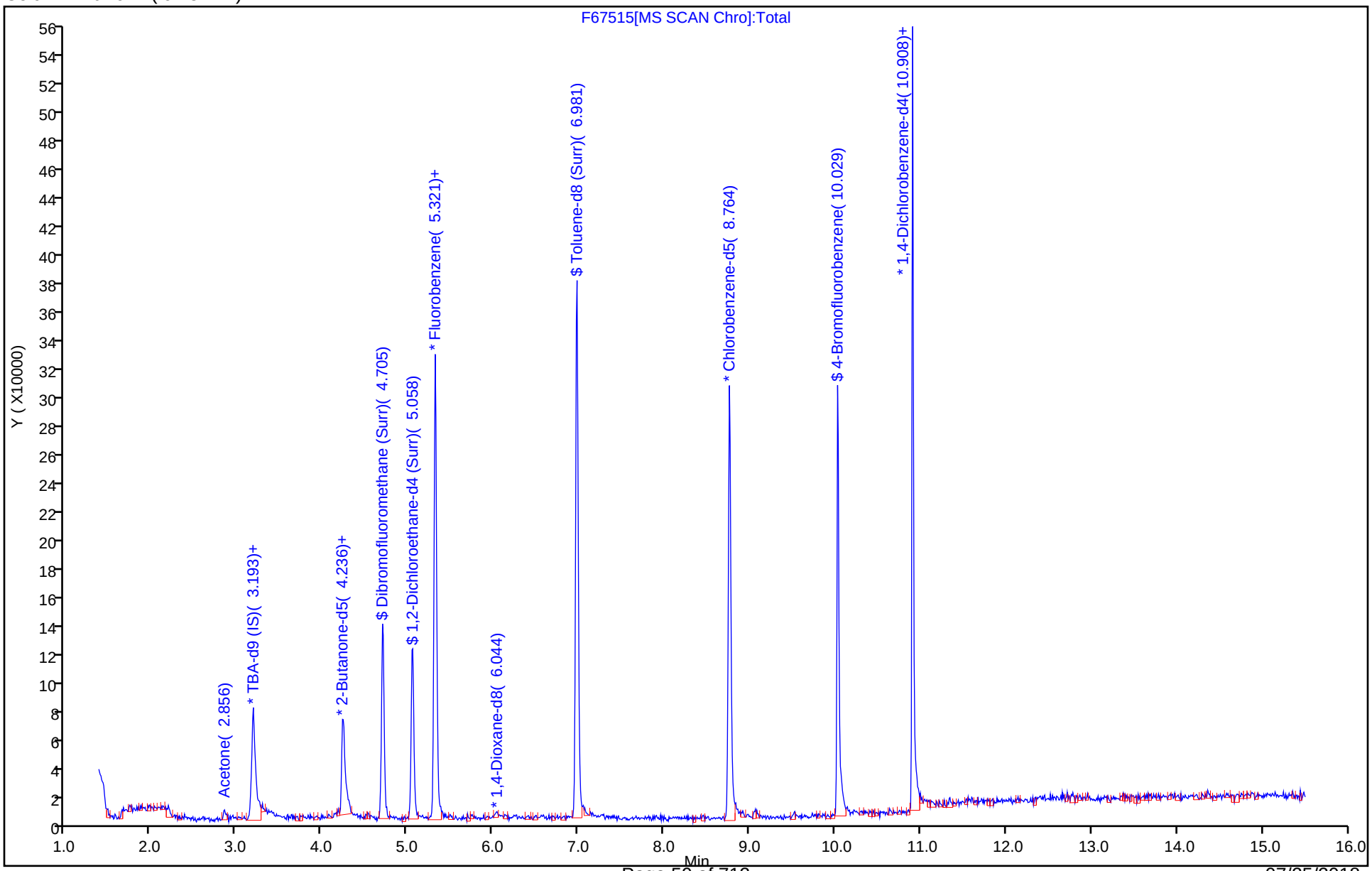
Report Date: 10-Jul-2018 06:34:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D

Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2	Worklist Smp#:	24
Client ID:	PDI-FB-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

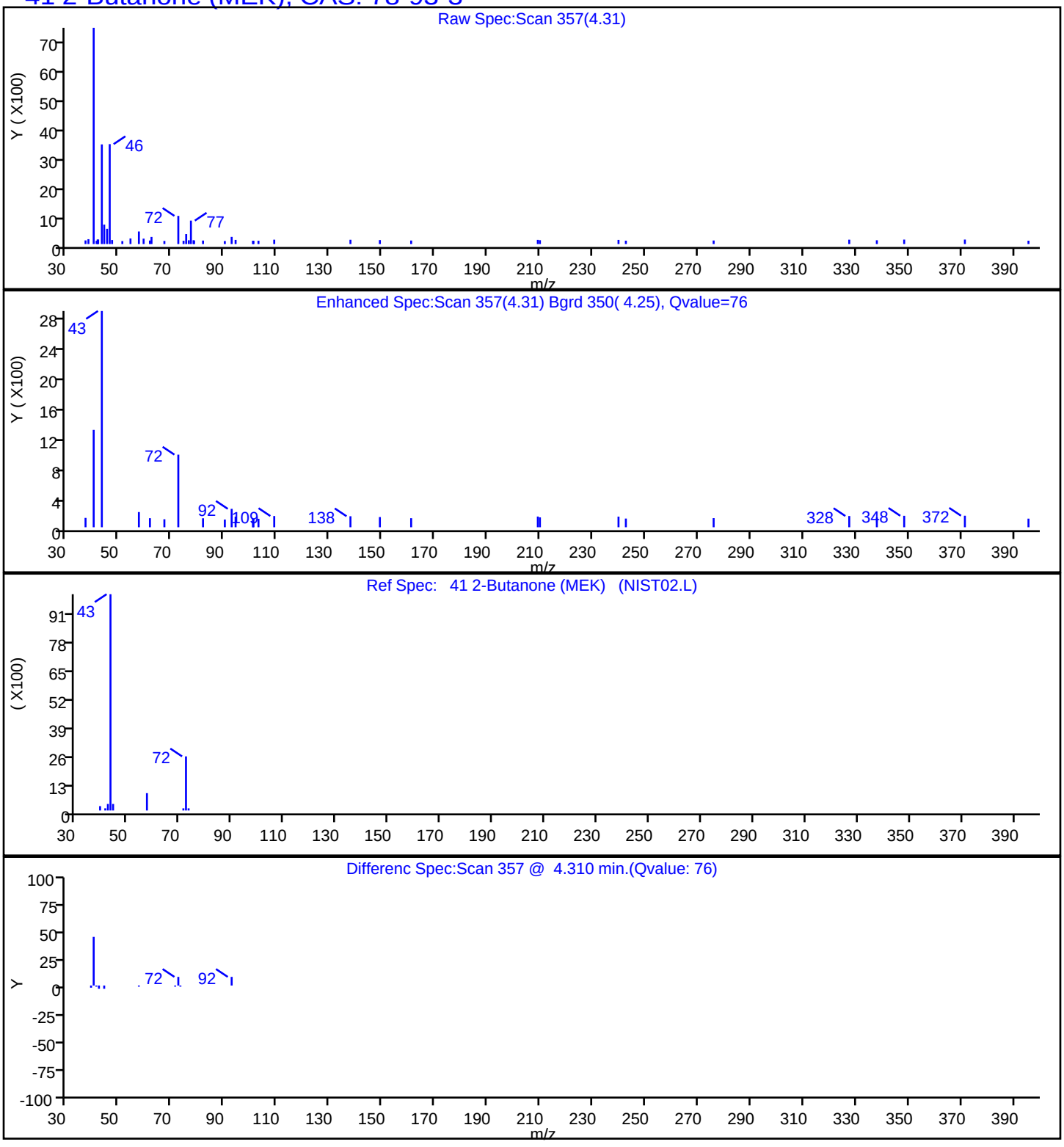
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D				
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2		
Client ID:	PDI-FB-06262018				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

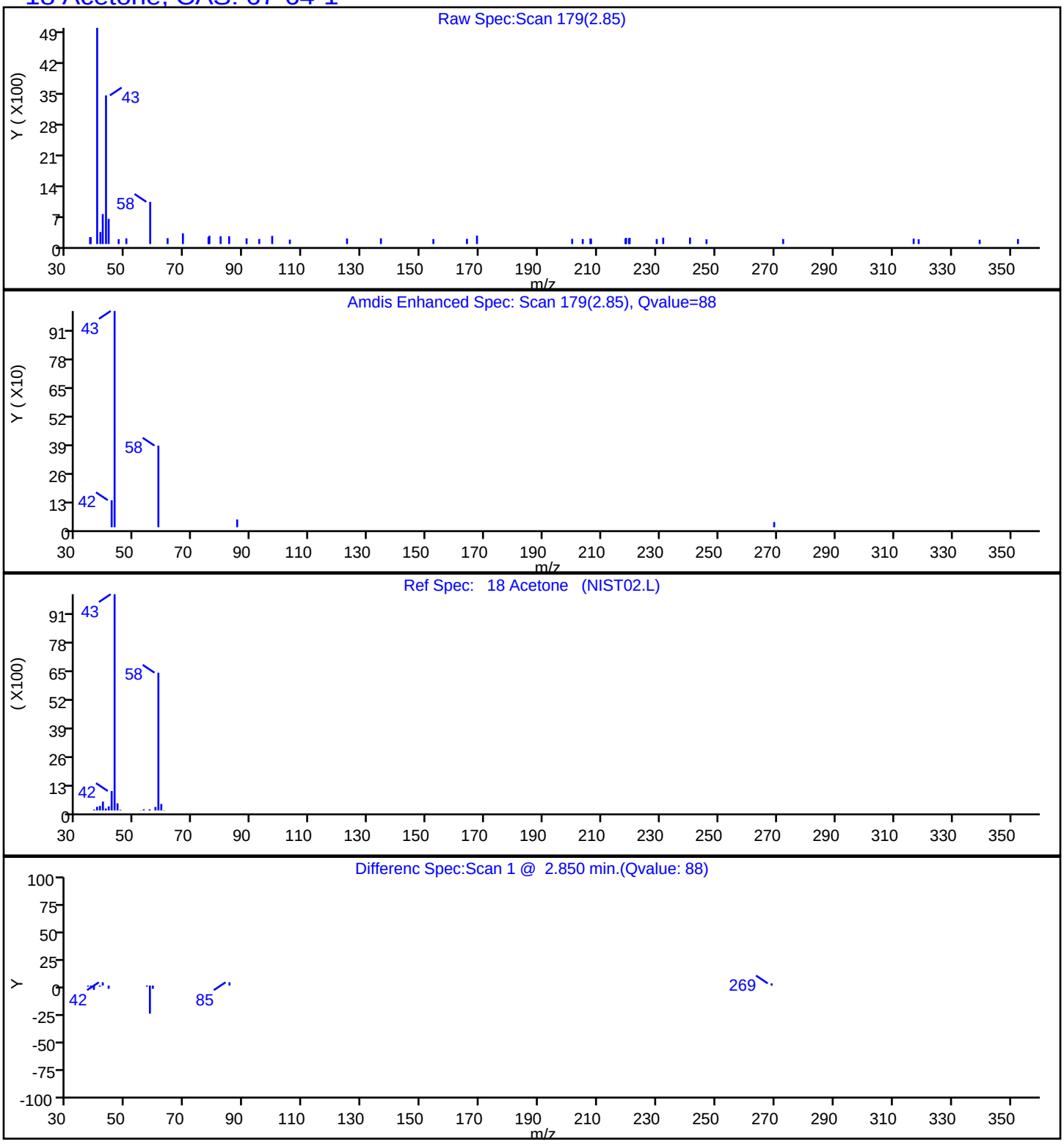
41 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

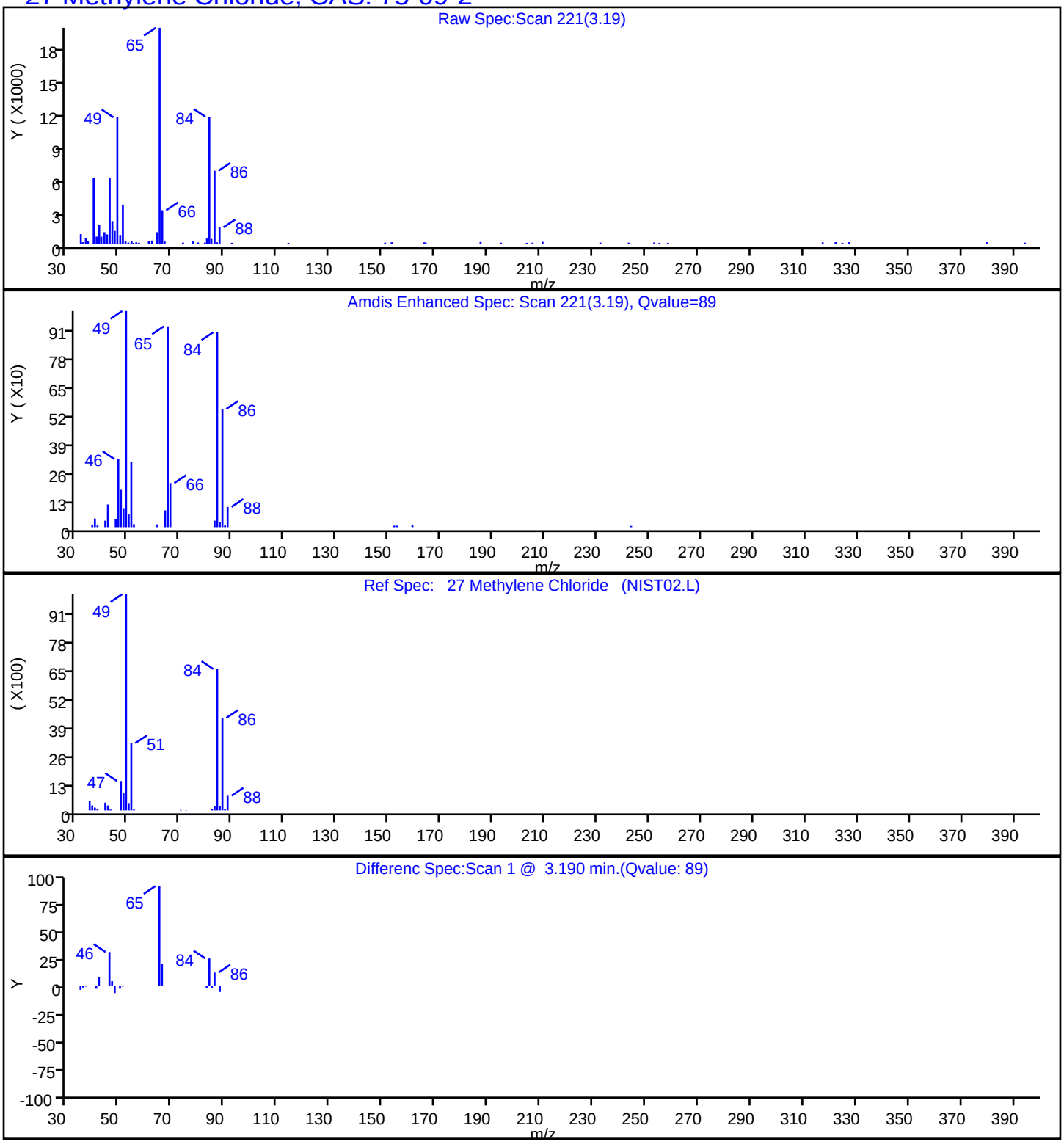
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

27 Methylene Chloride, CAS: 75-09-2



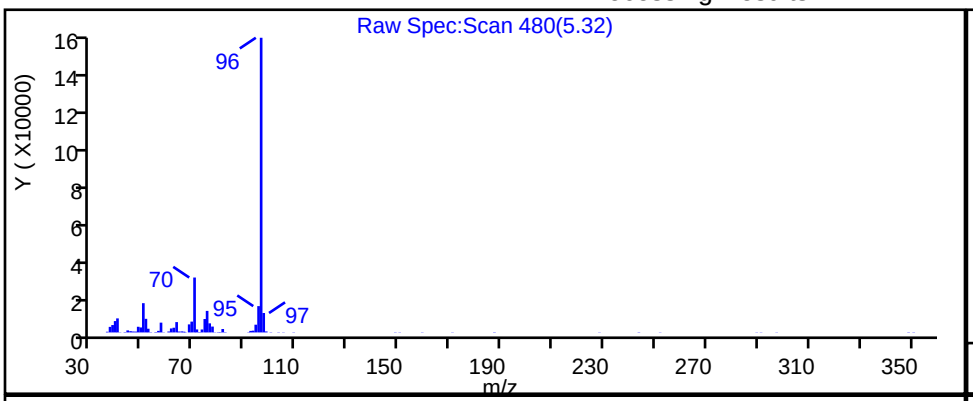
User Disabled Compound Report

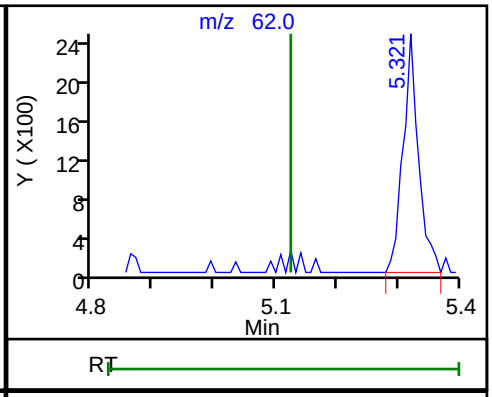
TestAmerica Edison

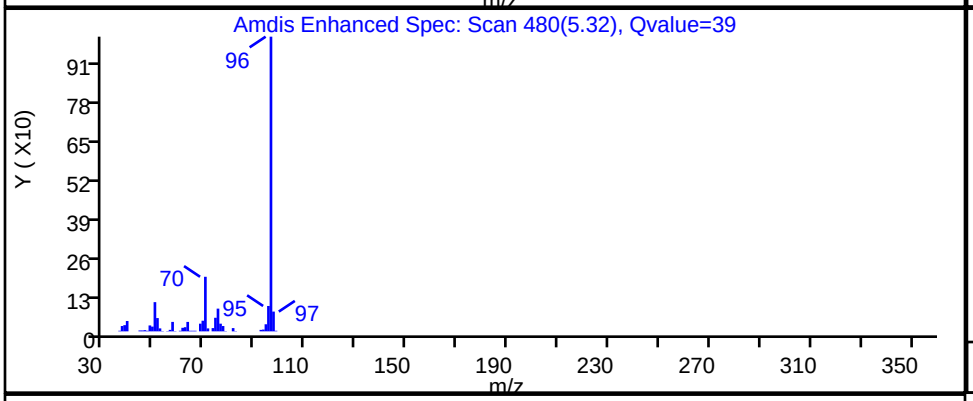
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

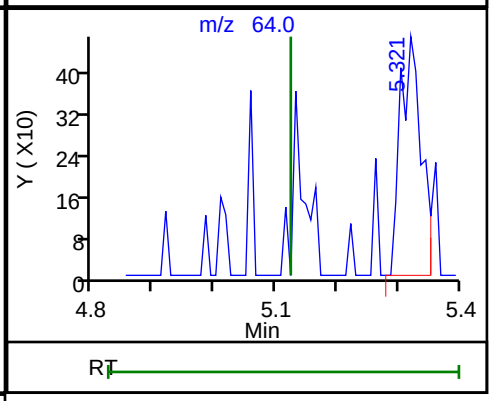
59 1,2-Dichloroethane, CAS: 107-06-2

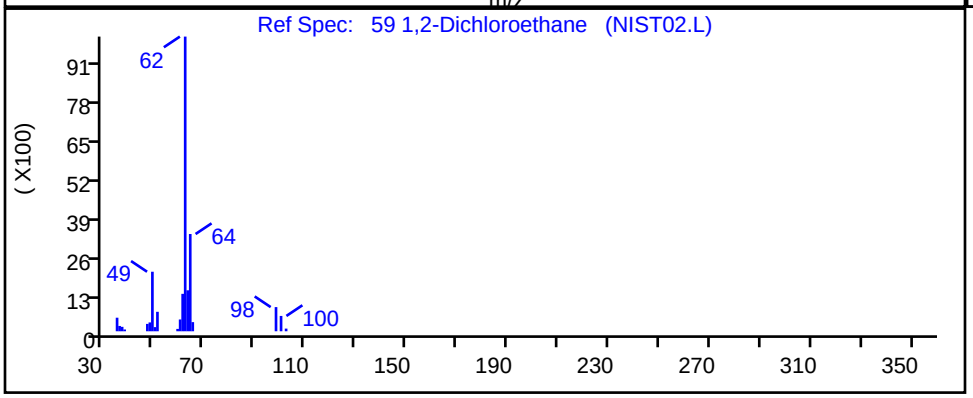
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4325	0.862210
5.32	64.00	1108	

Reviewer: moroneyc, 10-Jul-2018 06:32:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-16-WG-75-06262018 | Lab Sample ID: 460-159314-3

Matrix: Water | Lab File ID: F67532.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	7.7		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	1.9		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-16-WG-75-06262018 | Lab Sample ID: 460-159314-3

Matrix: Water | Lab File ID: F67532.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	2.7		1.0	0.25
108-88-3	Toluene	0.58	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	85		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Lims ID: 460-159314-C-3
Client ID: PDI-16-WG-75-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 09:23:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-C-3
Misc. Info.: 460-0075172-009
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:40:53 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: moroneyc Date: 10-Jul-2018 11:31:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.856	2.848	0.008	62	6190	7.74	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	119259	1000.0	
* 38 2-Butanone-d5	46	4.244	4.236	0.008	0	140232	250.0	
40 cis-1,2-Dichloroethene	96	4.277	4.278	-0.001	76	9842	1.91	
48 Chloroform	83	4.557	4.549	0.008	60	2148	0.2919	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	96	10486	1.60	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	97	96449	54.0	
55 Benzene	78	5.041	5.033	0.008	40	1783	0.1067	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	97094	50.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	358552	50.0	
63 Trichloroethene	95	5.674	5.674	0.000	98	377088	85.3	
* 67 1,4-Dioxane-d8	96	6.044	6.019	0.025	0	10158	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	338221	51.2	
79 Toluene	91	7.055	7.055	0.000	56	9851	0.5830	
83 Tetrachloroethene	166	7.671	7.663	0.008	96	11226	2.72	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	239507	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	94	95236	49.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	94	130905	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

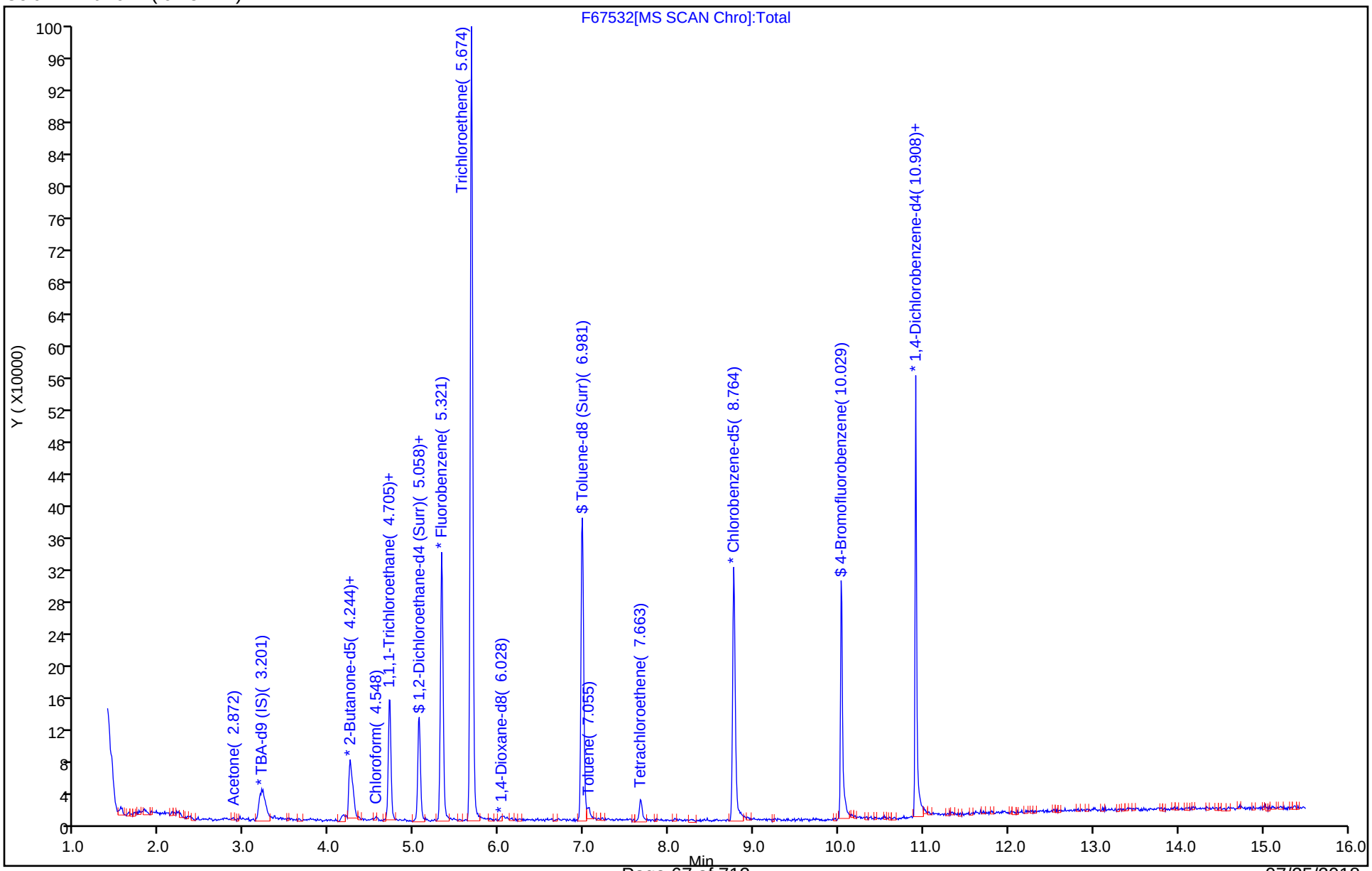
Report Date: 10-Jul-2018 13:41:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D

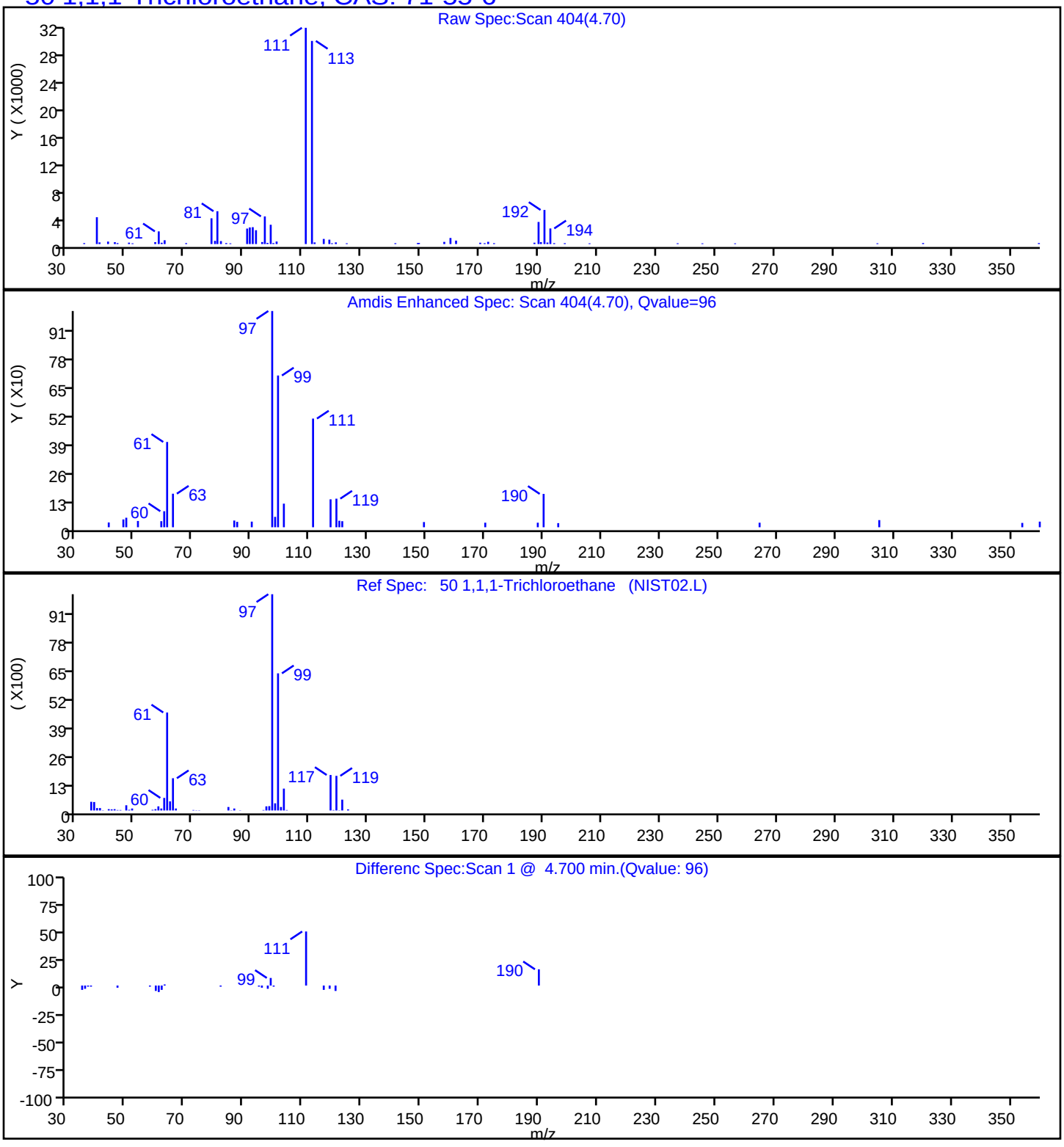
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3	Worklist Smp#:	9
Client ID:	PDI-16-WG-75-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Injection Date: 10-Jul-2018 09:23:30 Instrument ID: CVOAMS6
Lims ID: 460-159314-C-3 Lab Sample ID: 460-159314-3
Client ID: PDI-16-WG-75-06262018
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

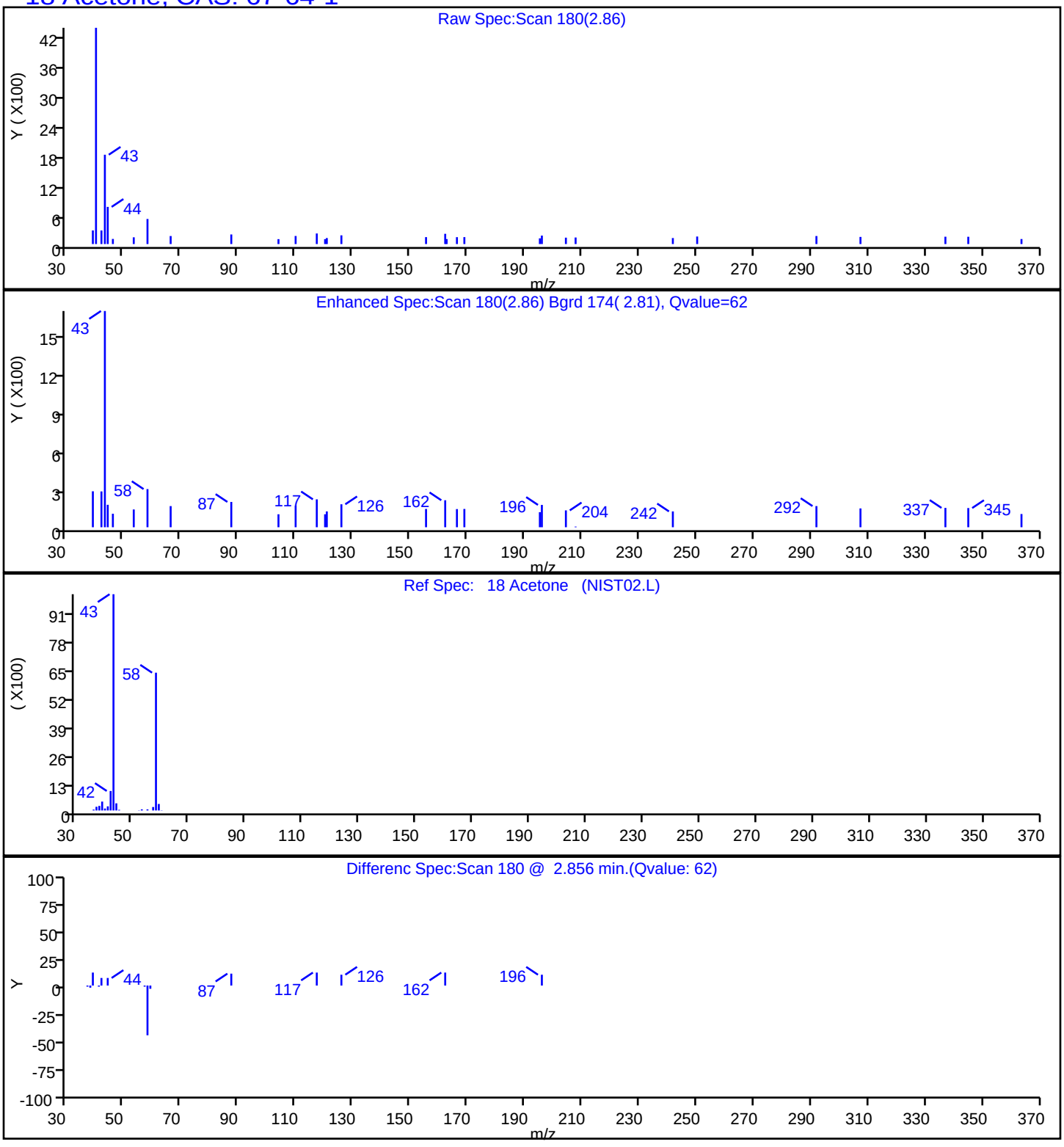
50 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Edison

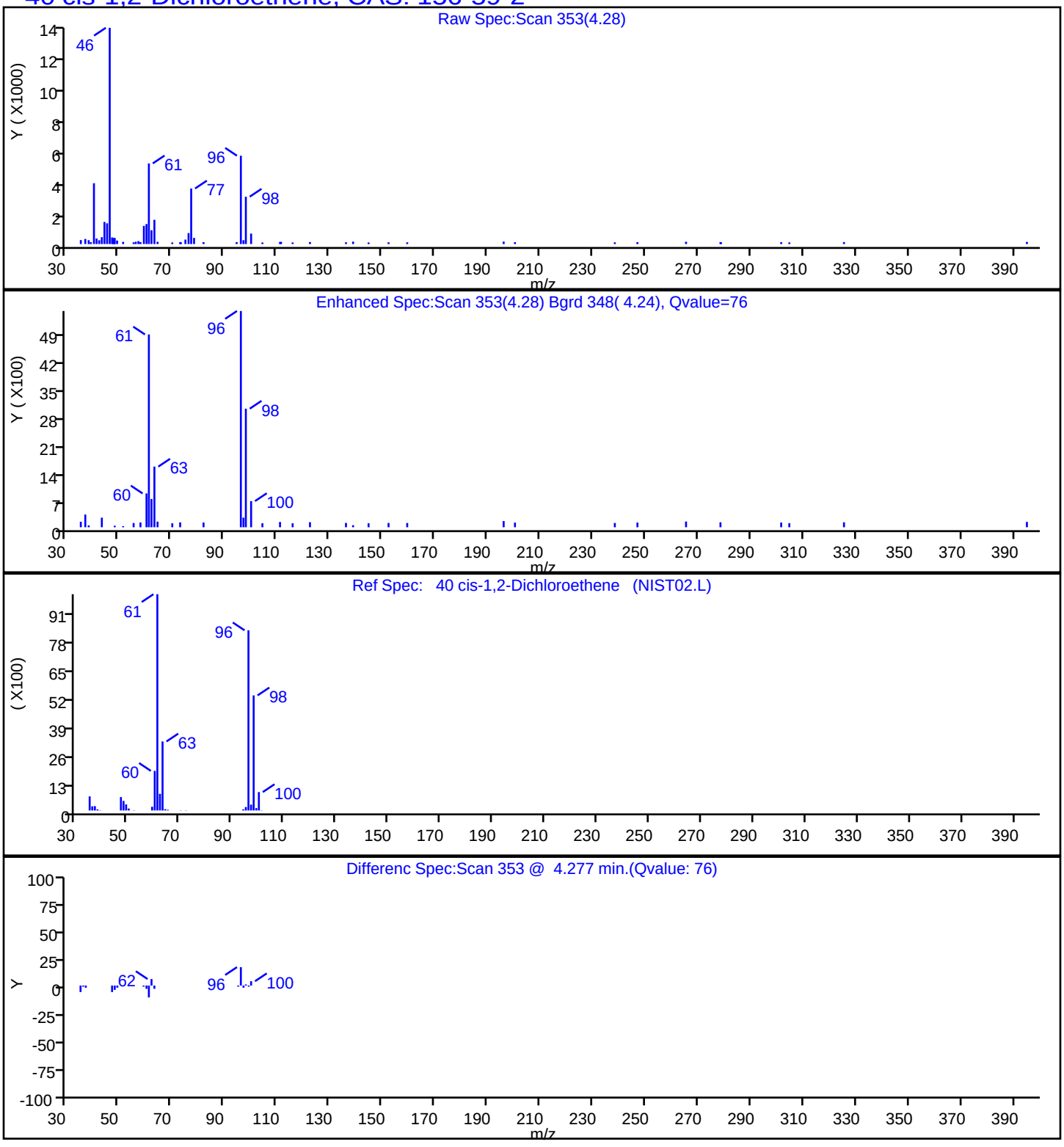
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

18 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Injection Date: 10-Jul-2018 09:23:30 Instrument ID: CVOAMS6
Lims ID: 460-159314-C-3 Lab Sample ID: 460-159314-3
Client ID: PDI-16-WG-75-06262018
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

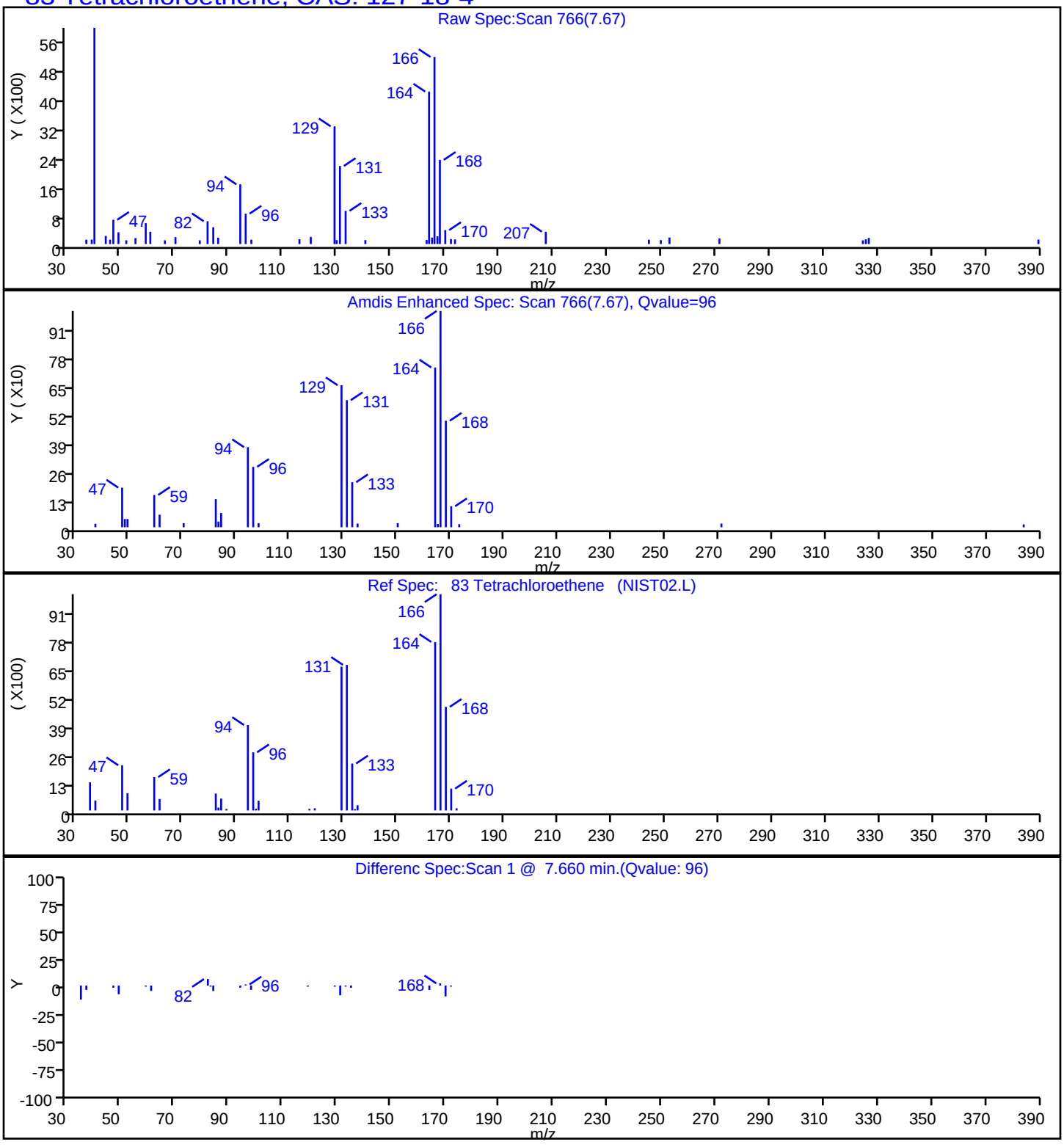
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D		
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3
Client ID:	PDI-16-WG-75-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

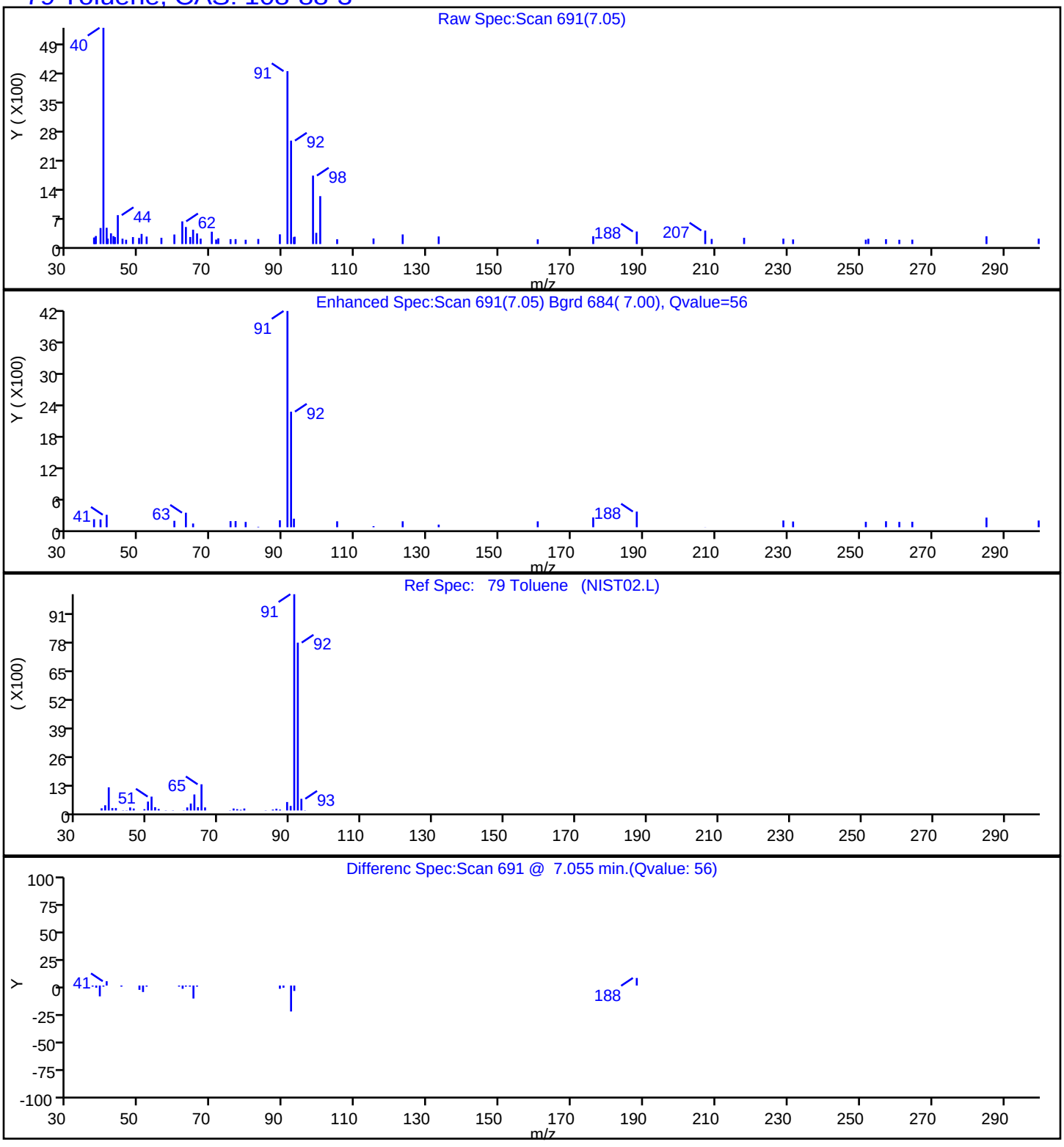
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

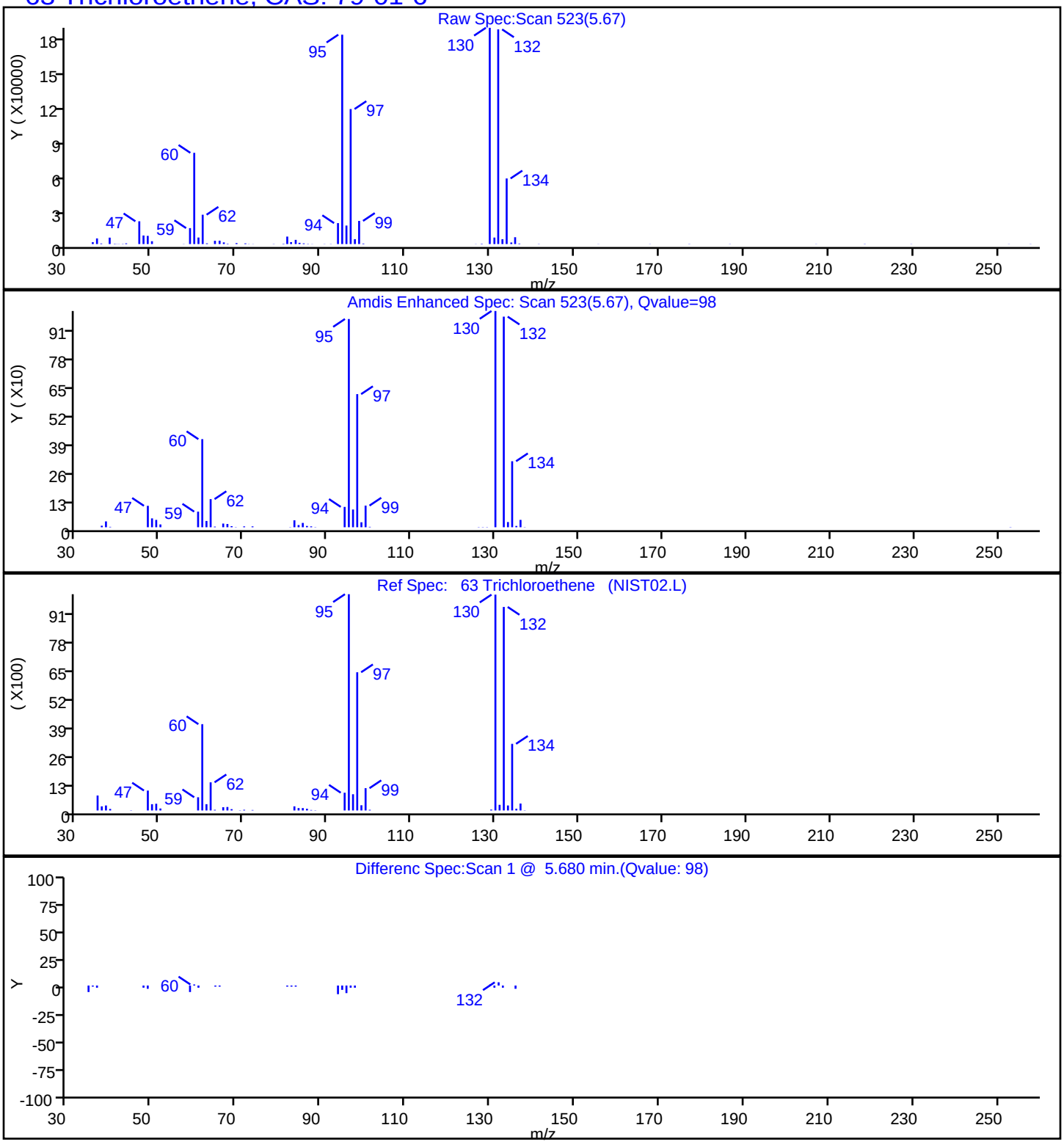
79 Toluene, CAS: 108-88-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

63 Trichloroethene, CAS: 79-01-6



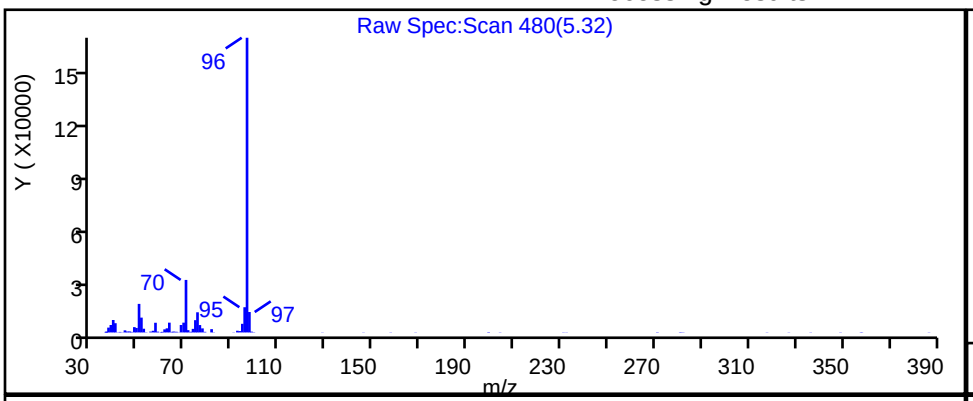
User Disabled Compound Report

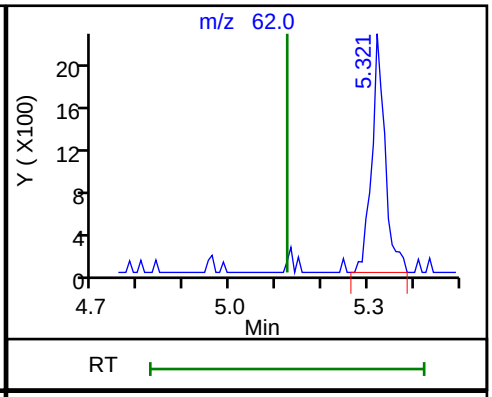
TestAmerica Edison

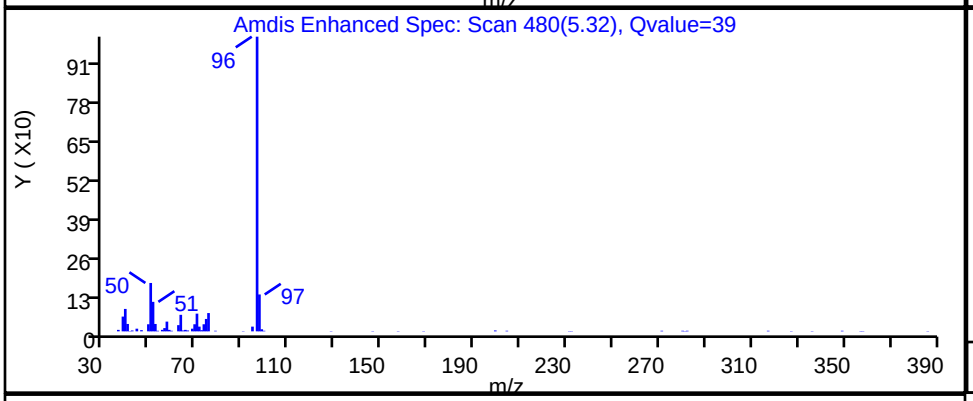
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

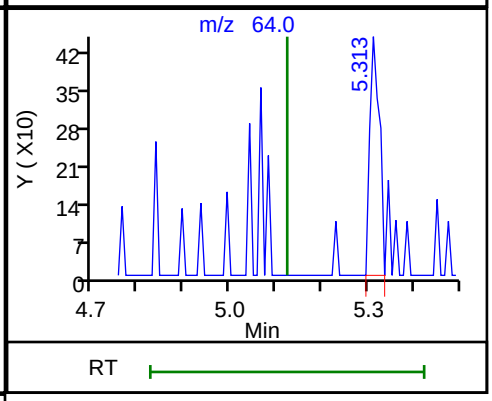
59 1,2-Dichloroethane, CAS: 107-06-2

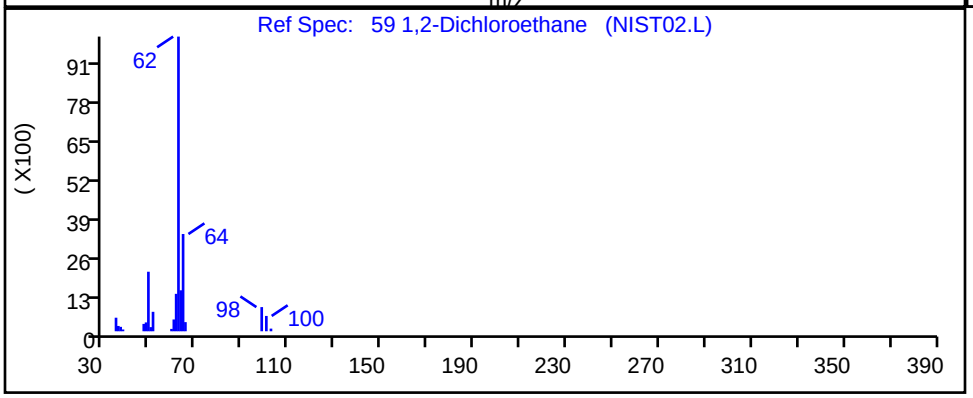
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4643	0.875591
5.31	64.00	653	

Reviewer: moroneyc, 10-Jul-2018 11:31:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

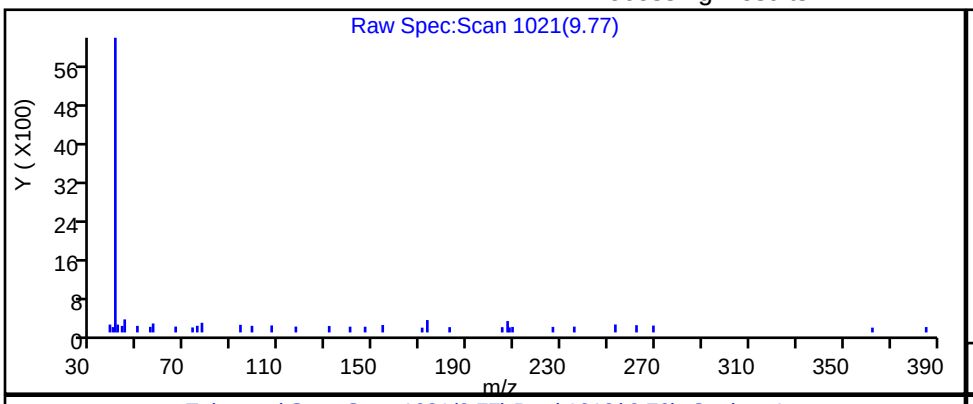
User Disabled Compound Report

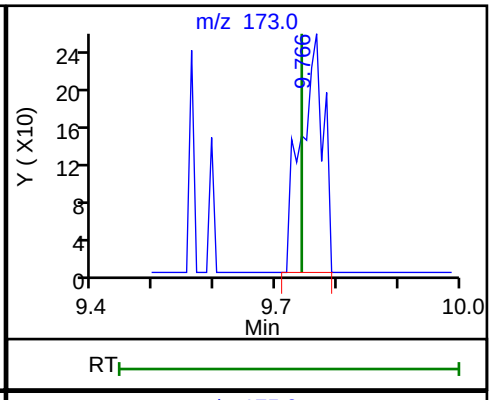
TestAmerica Edison

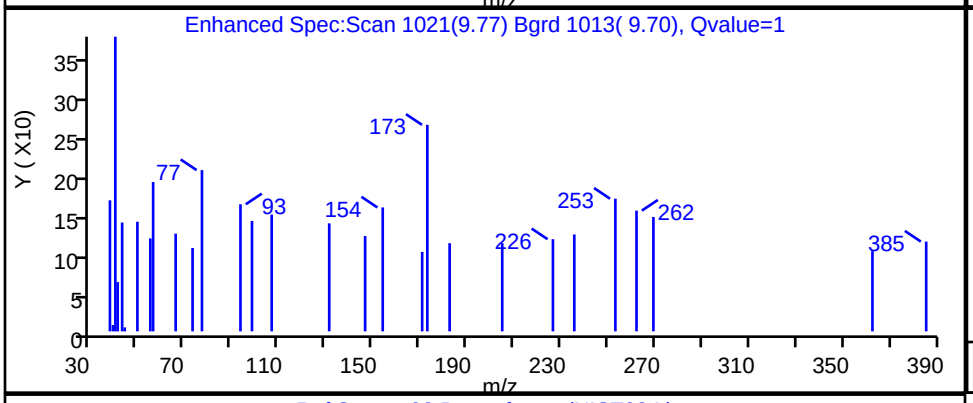
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D		
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3
Client ID:	PDI-16-WG-75-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

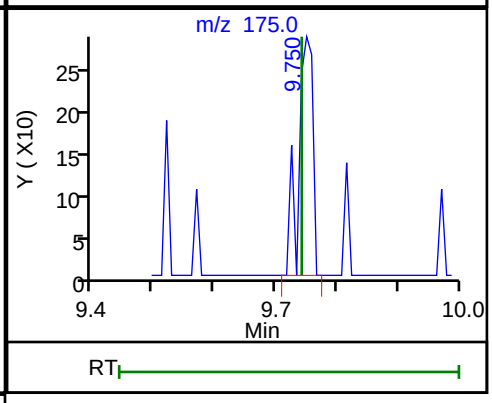
98 Bromoform, CAS: 75-25-2

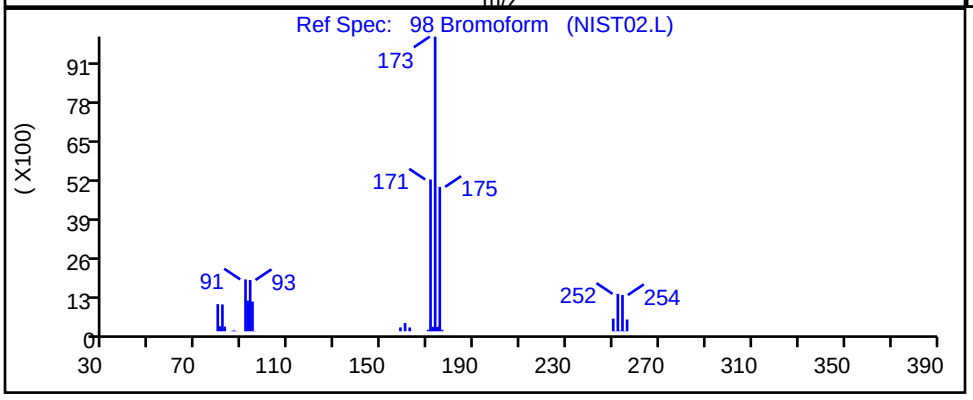
Processing Results











RT	Mass	Response	Amount
9.77	173.00	670	0.286595
9.75	175.00	462	

Reviewer: moroneyc, 10-Jul-2018 11:31:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

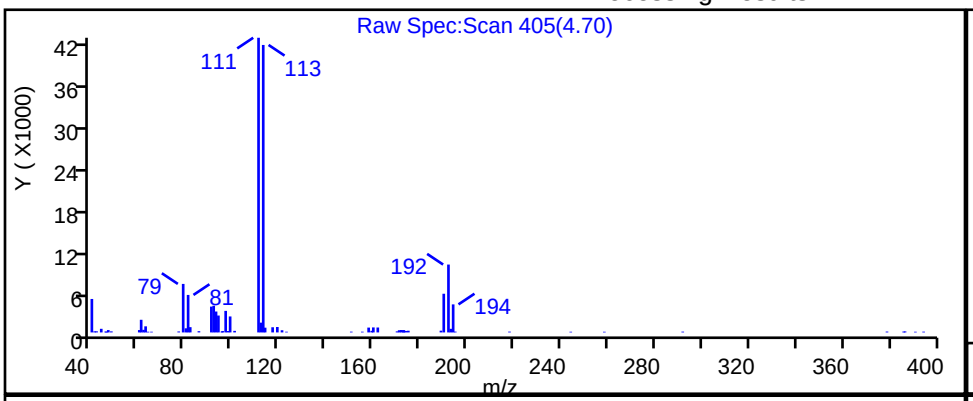
User Disabled Compound Report

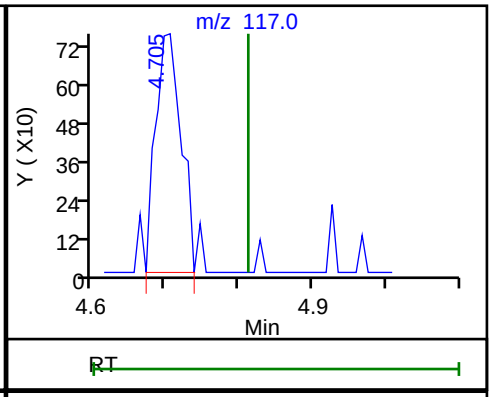
TestAmerica Edison

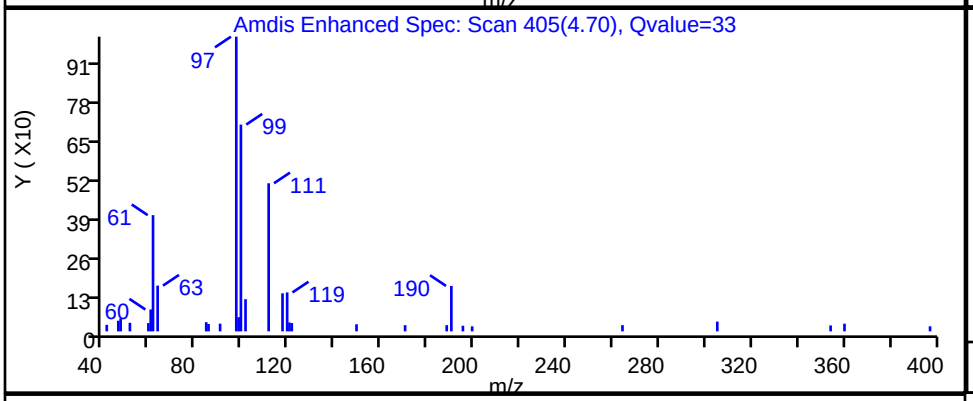
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

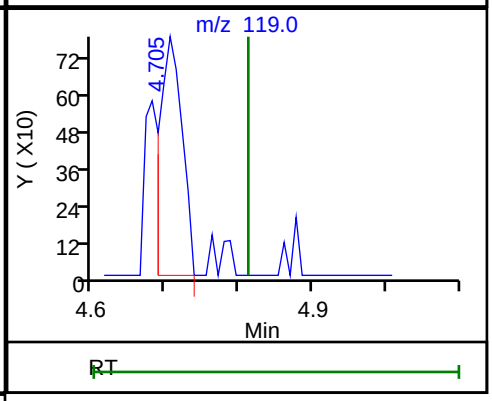
52 Carbon tetrachloride, CAS: 56-23-5

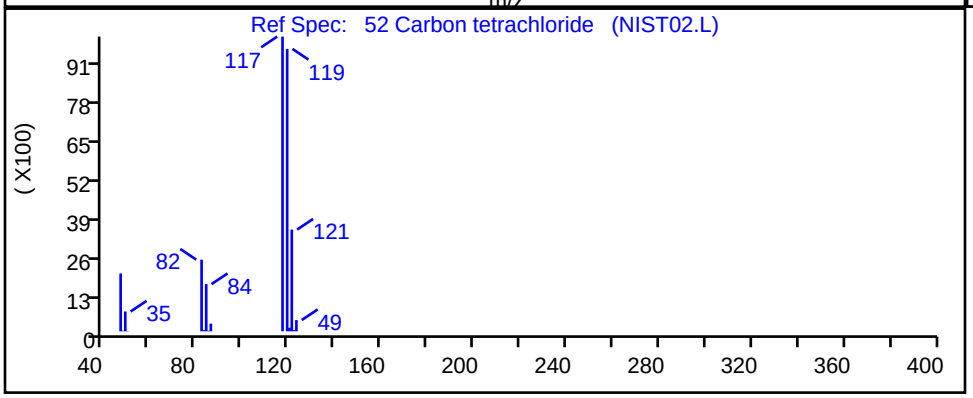
Processing Results











RT	Mass	Response	Amount
4.70	117.00	1821	0.341930
4.70	119.00	1648	

Reviewer: moroneyc, 10-Jul-2018 11:31:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

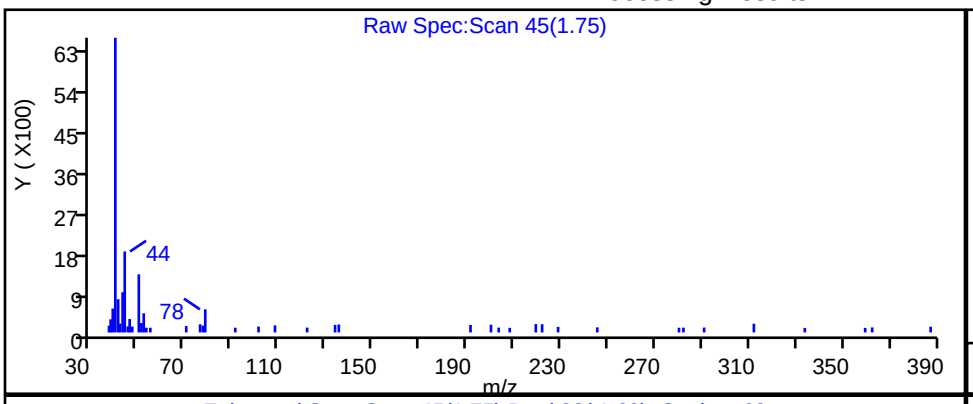
User Disabled Compound Report

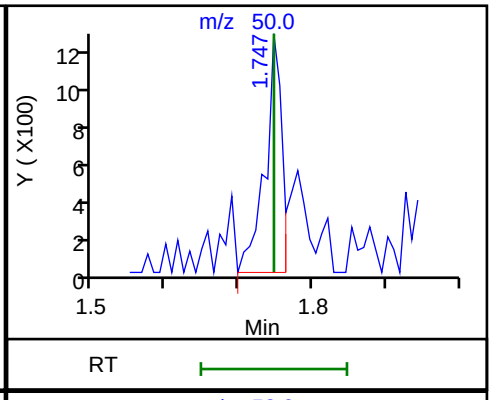
TestAmerica Edison

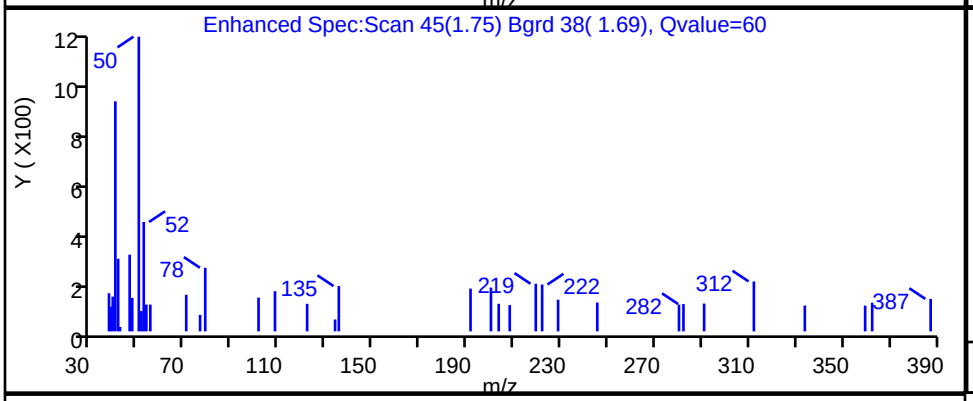
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D		
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3
Client ID:	PDI-16-WG-75-06262018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

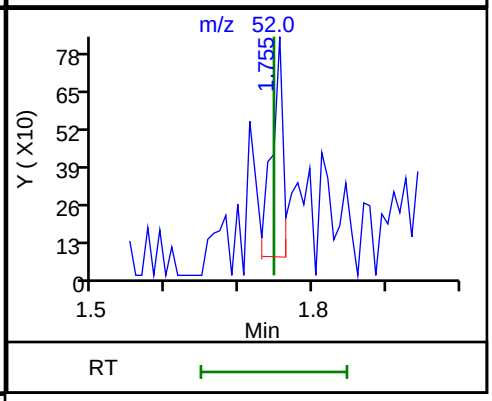
3 Chloromethane, CAS: 74-87-3

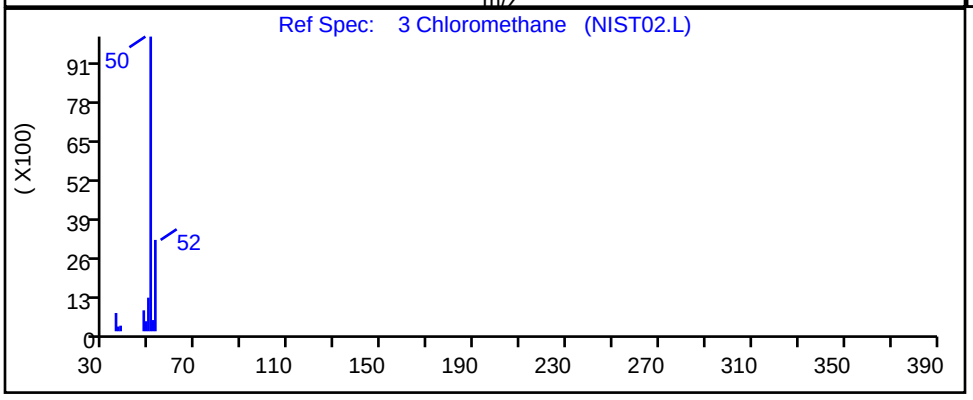
Processing Results











RT	Mass	Response	Amount
1.75	50.00	2040	0.261807
1.75	52.00	824	

Reviewer: moroneyc, 10-Jul-2018 11:31:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: F67516.D

Analysis Method: 8260C | Date Collected: 06/26/2018 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	7.3		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	13		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: F67516.D

Analysis Method: 8260C | Date Collected: 06/26/2018 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	15		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.33	J	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	370		1.0	0.31
75-69-4	Trichlorofluoromethane	1.1		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D
Lims ID: 460-159314-B-4
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 03:09:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-4
Misc. Info.: 460-0075142-025
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:14:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Trichlorofluoromethane	101	2.371	2.363	0.008	47	7568	1.09	
18 Acetone	43	2.864	2.839	0.025	75	5379	7.32	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	116721	1000.0	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	28	1616	0.1368	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	3	1468	0.3331	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	128909	250.0	
40 cis-1,2-Dichloroethene	96	4.277	4.269	0.008	99	64227	13.0	
48 Chloroform	83	4.548	4.549	-0.001	71	1770	0.2502	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	89	10301	1.63	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	92424	53.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	95949	52.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	344686	50.0	
63 Trichloroethene	95	5.674	5.666	0.008	98	1569587	369.5	
* 67 1,4-Dioxane-d8	96	6.052	6.028	0.024	0	9397	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	324521	50.8	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	59828	15.0	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	231638	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	94	91350	48.9	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	95	130155	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

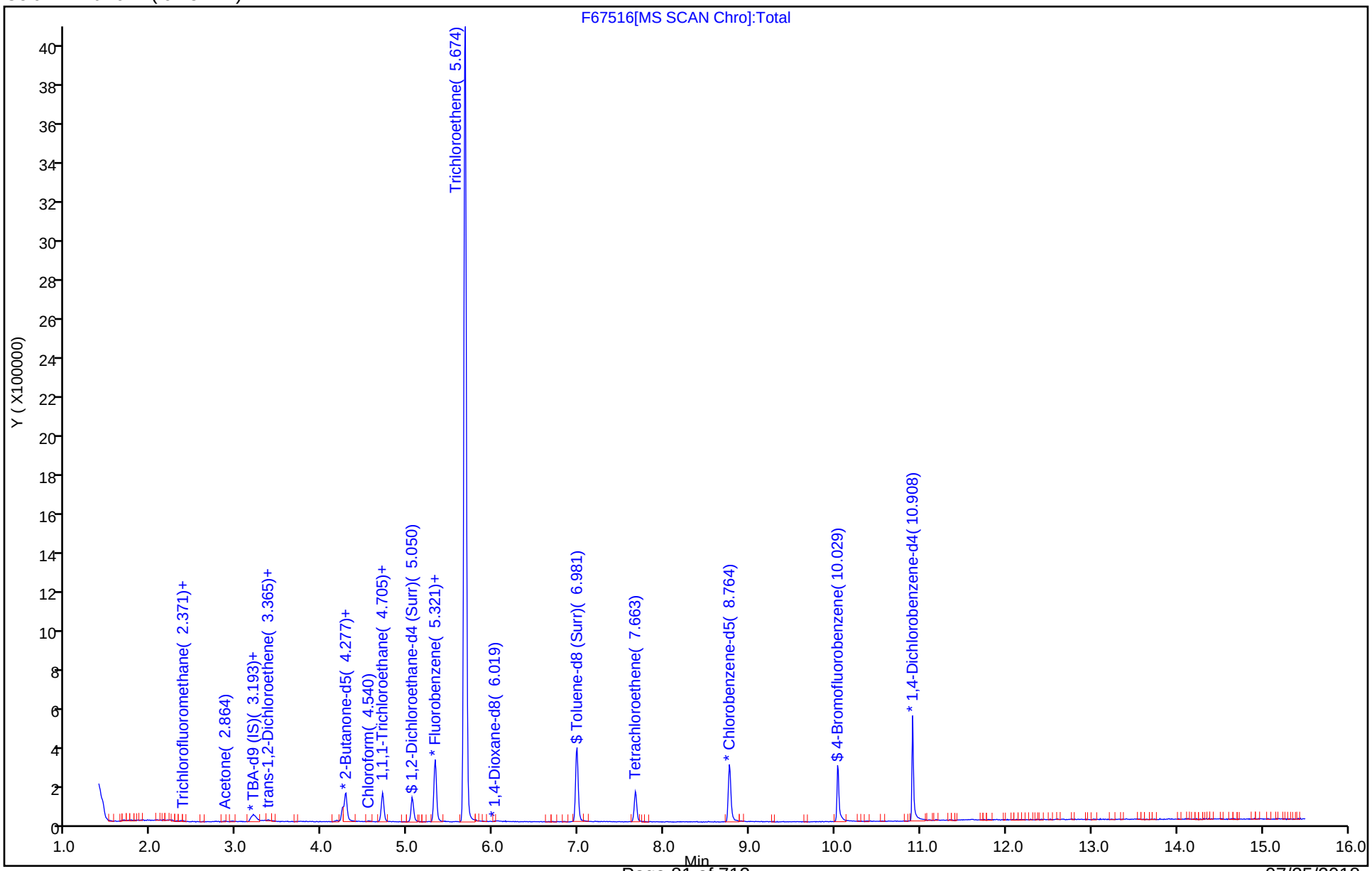
Report Date: 10-Jul-2018 06:34:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D

Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4	Worklist Smp#:	25
Client ID:	PDI-MW-161-1-I-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

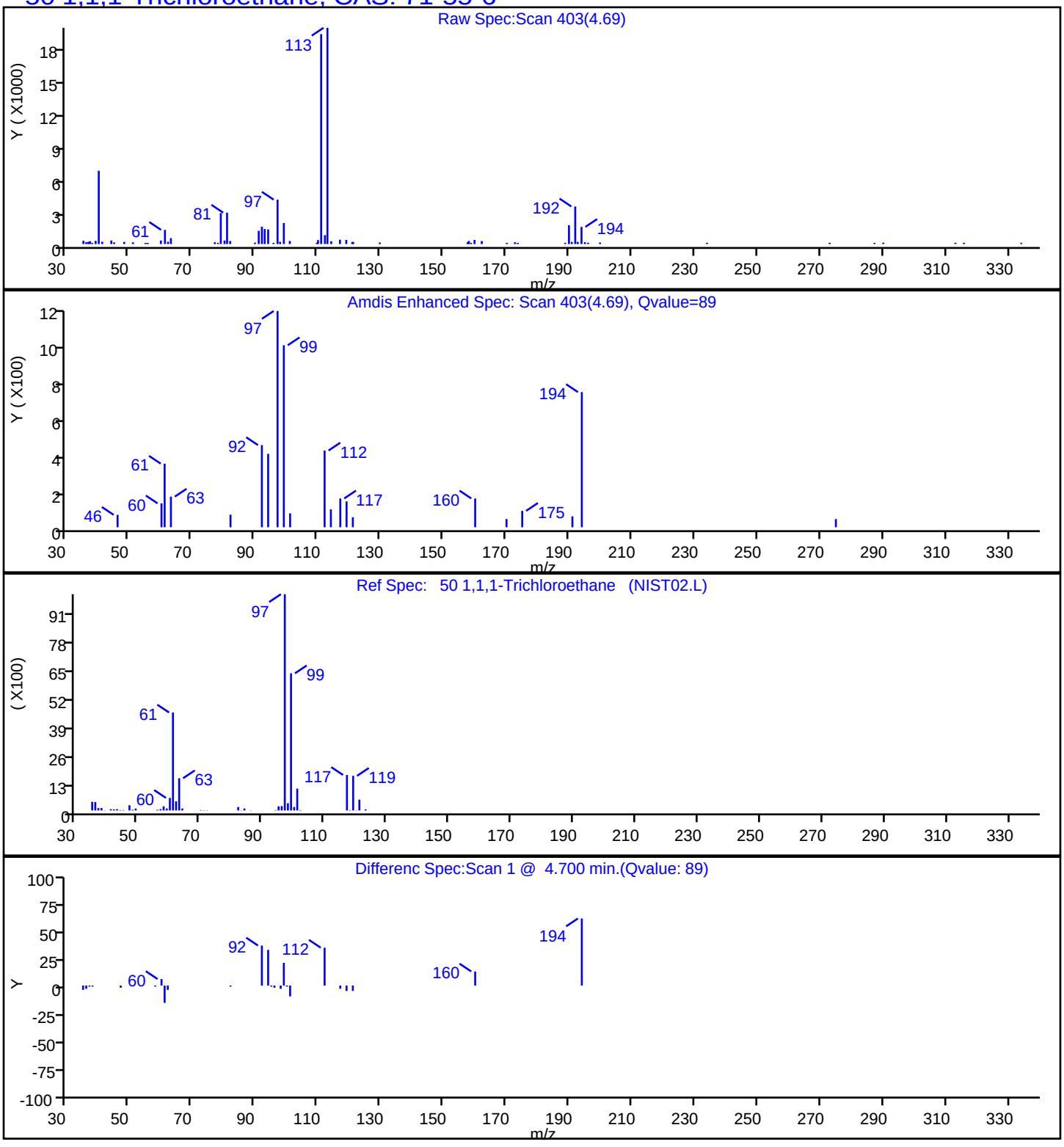
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

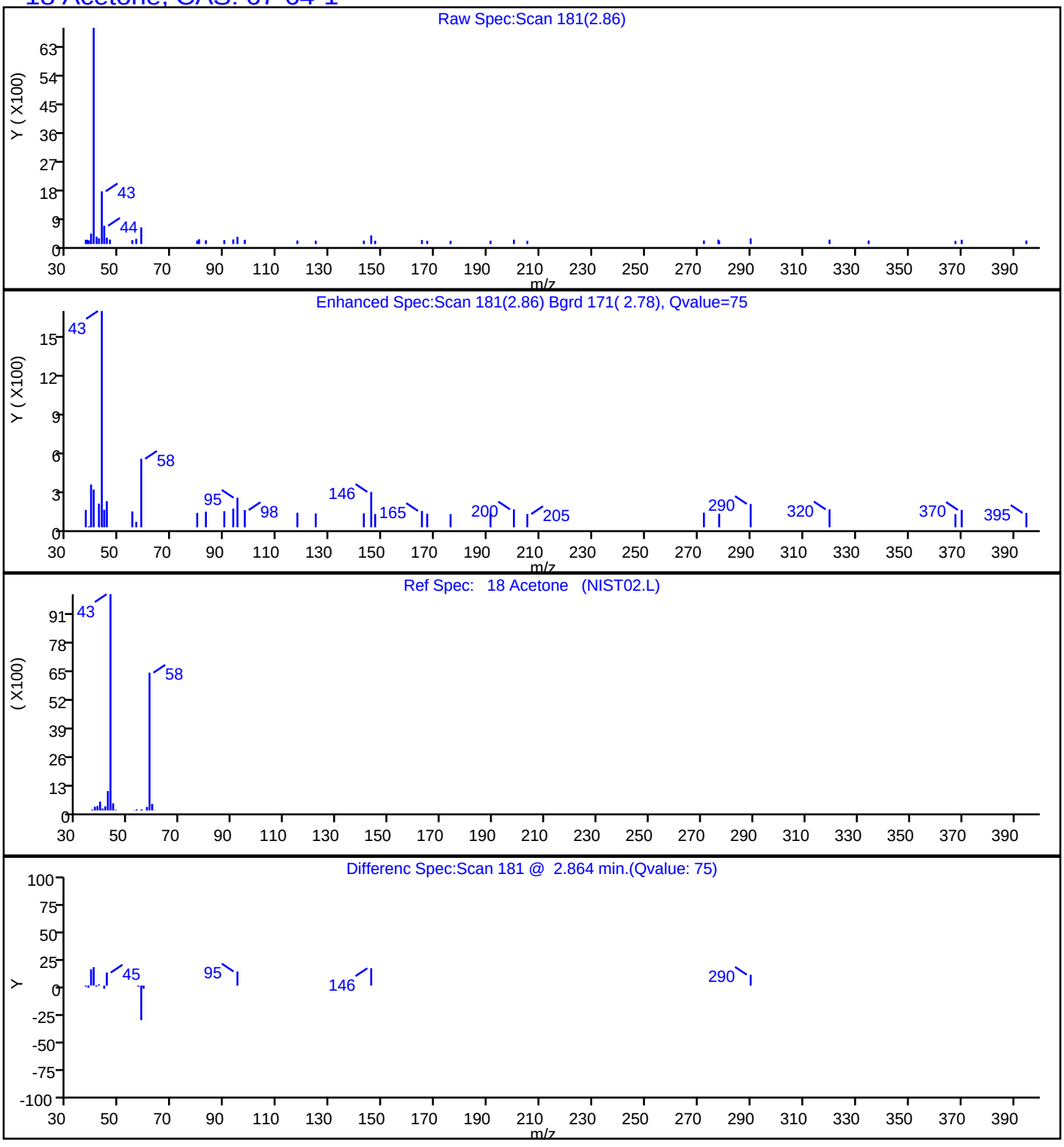
50 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

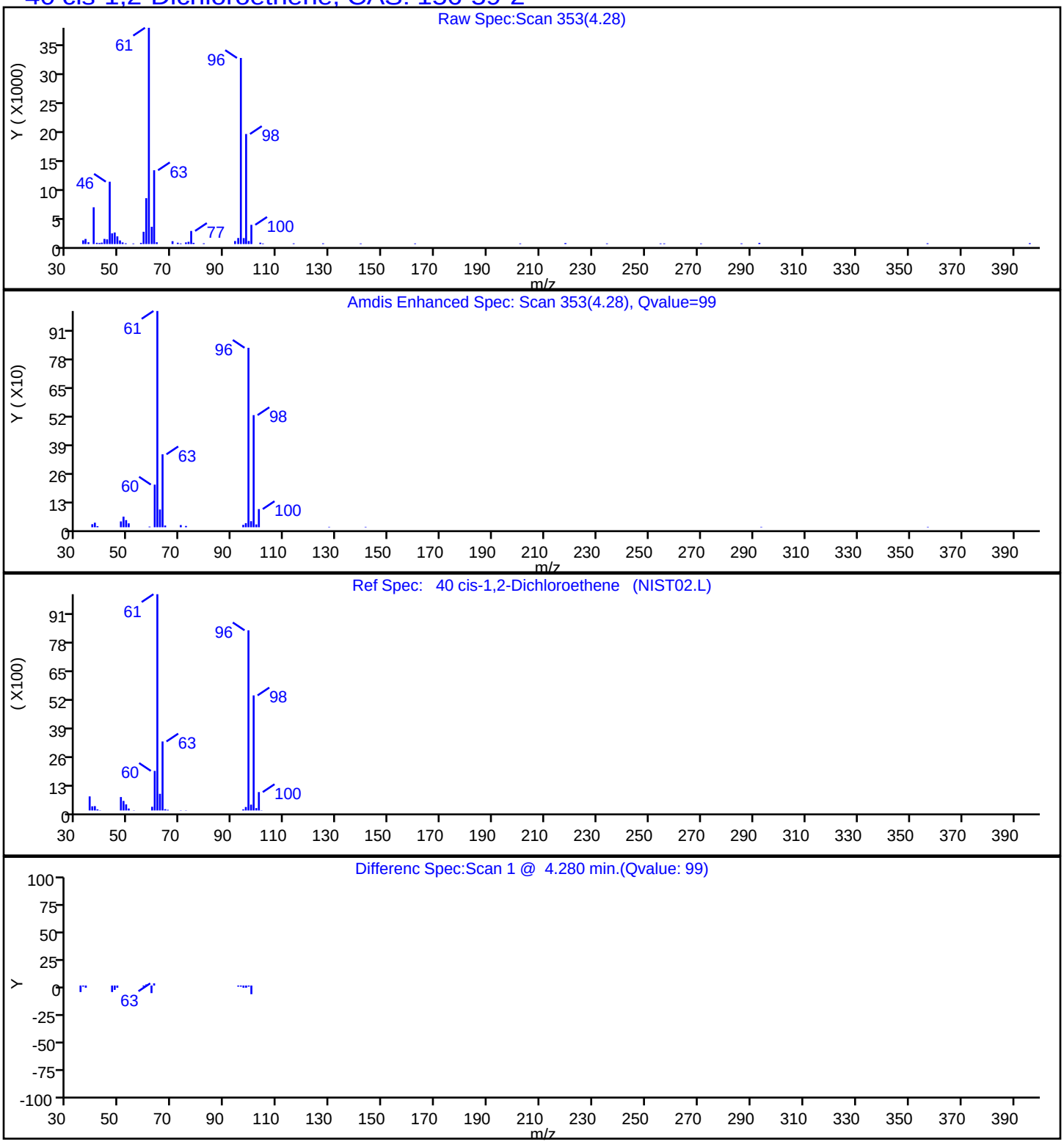
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

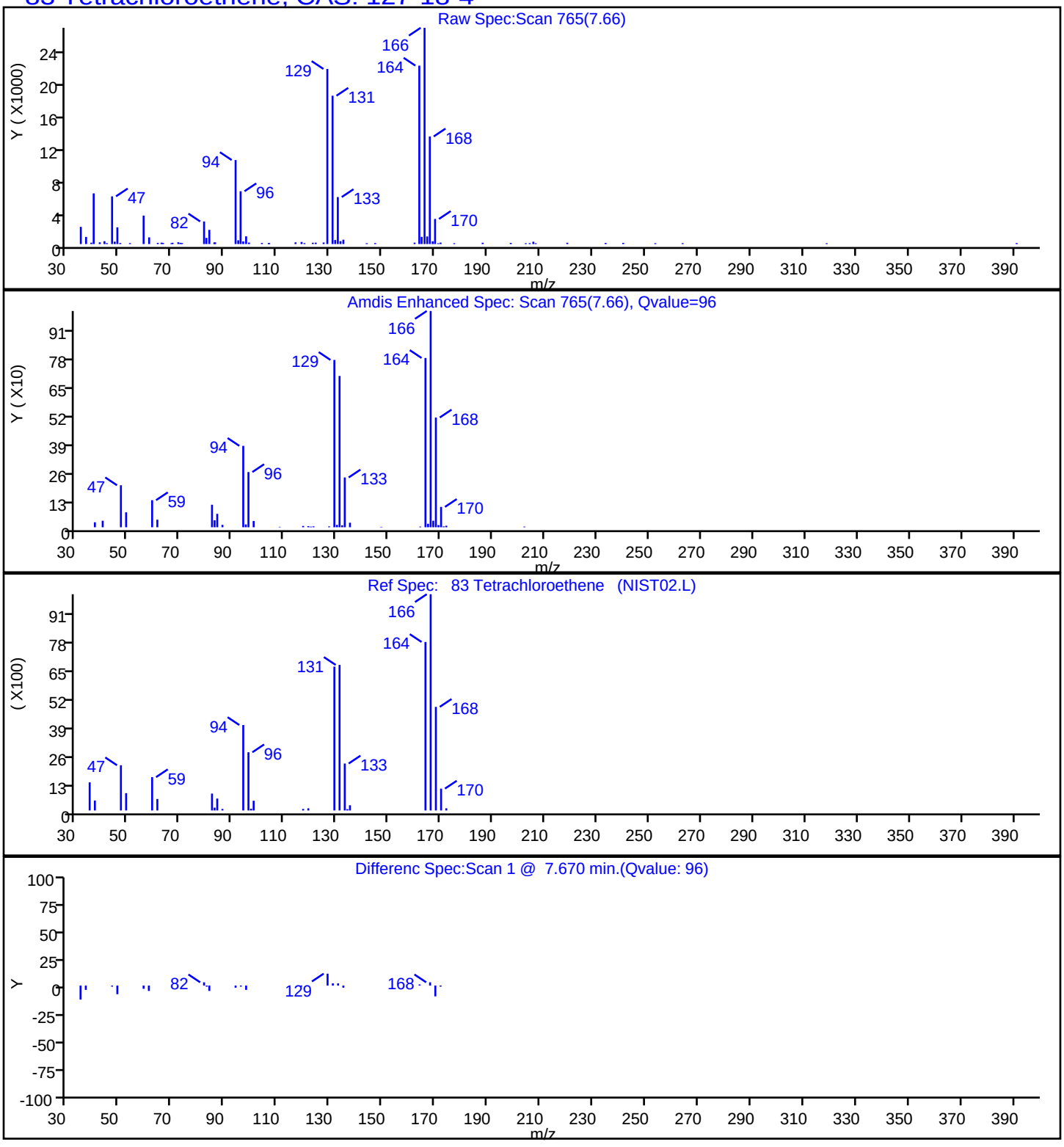
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

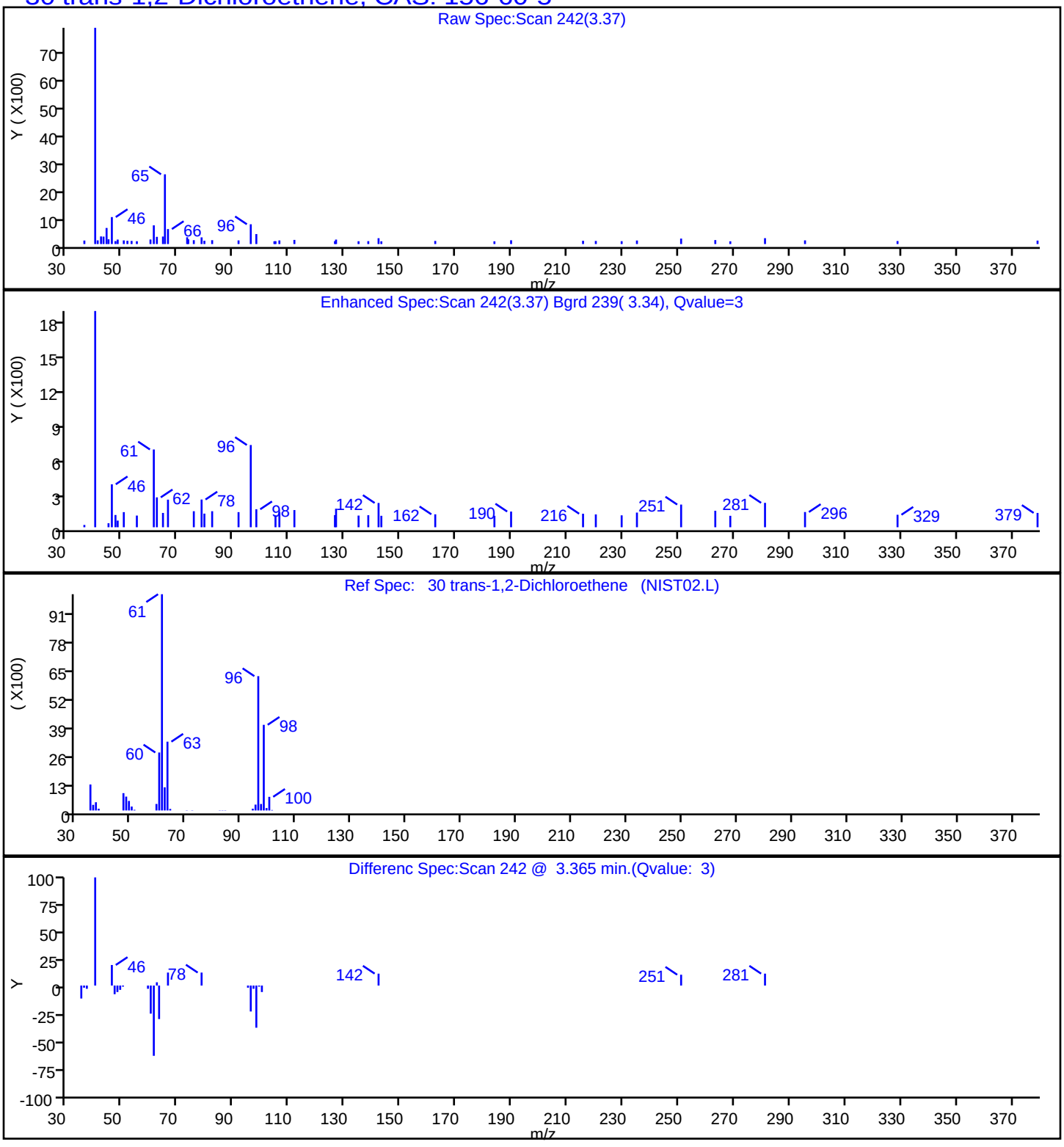
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

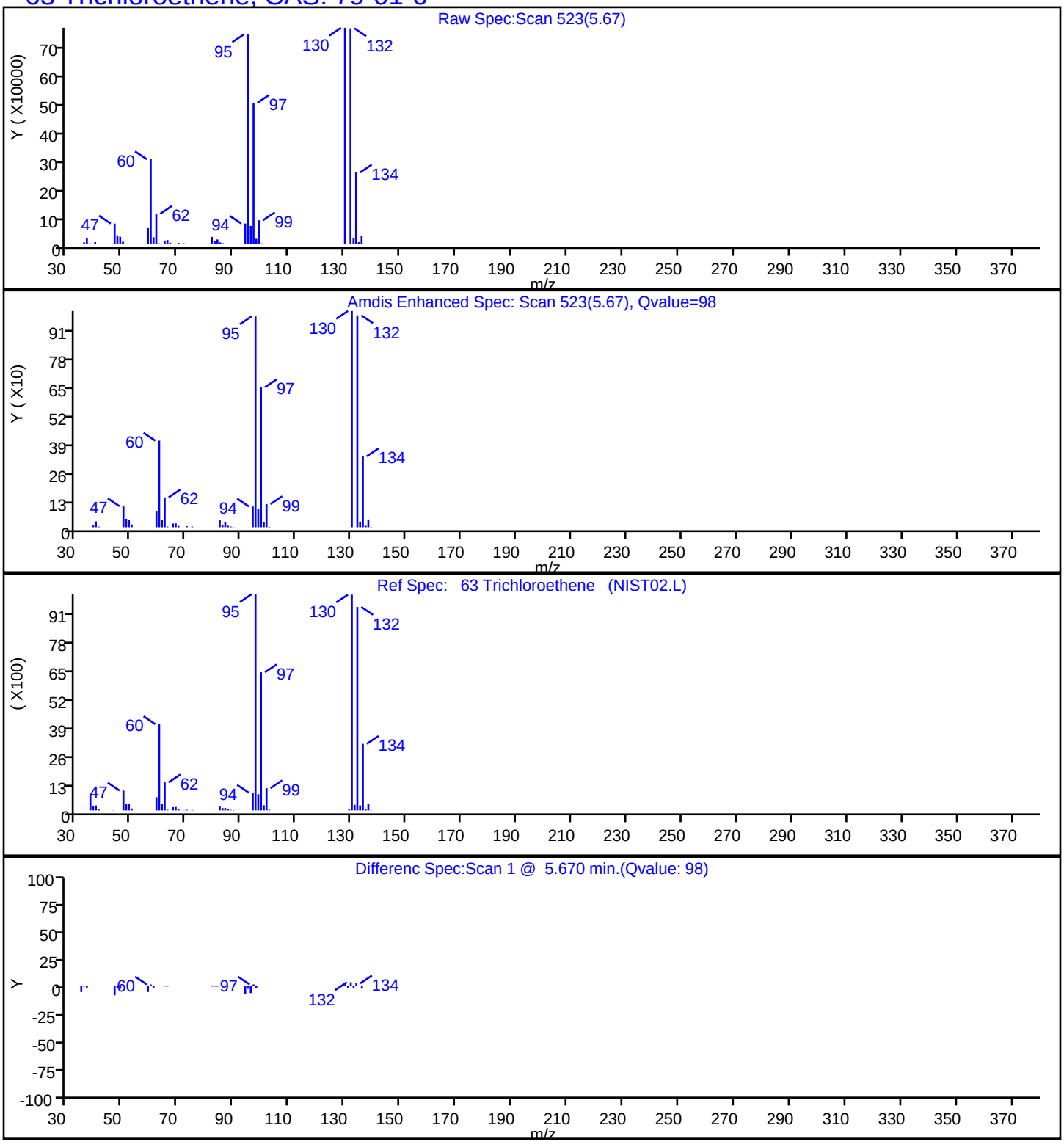
30 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

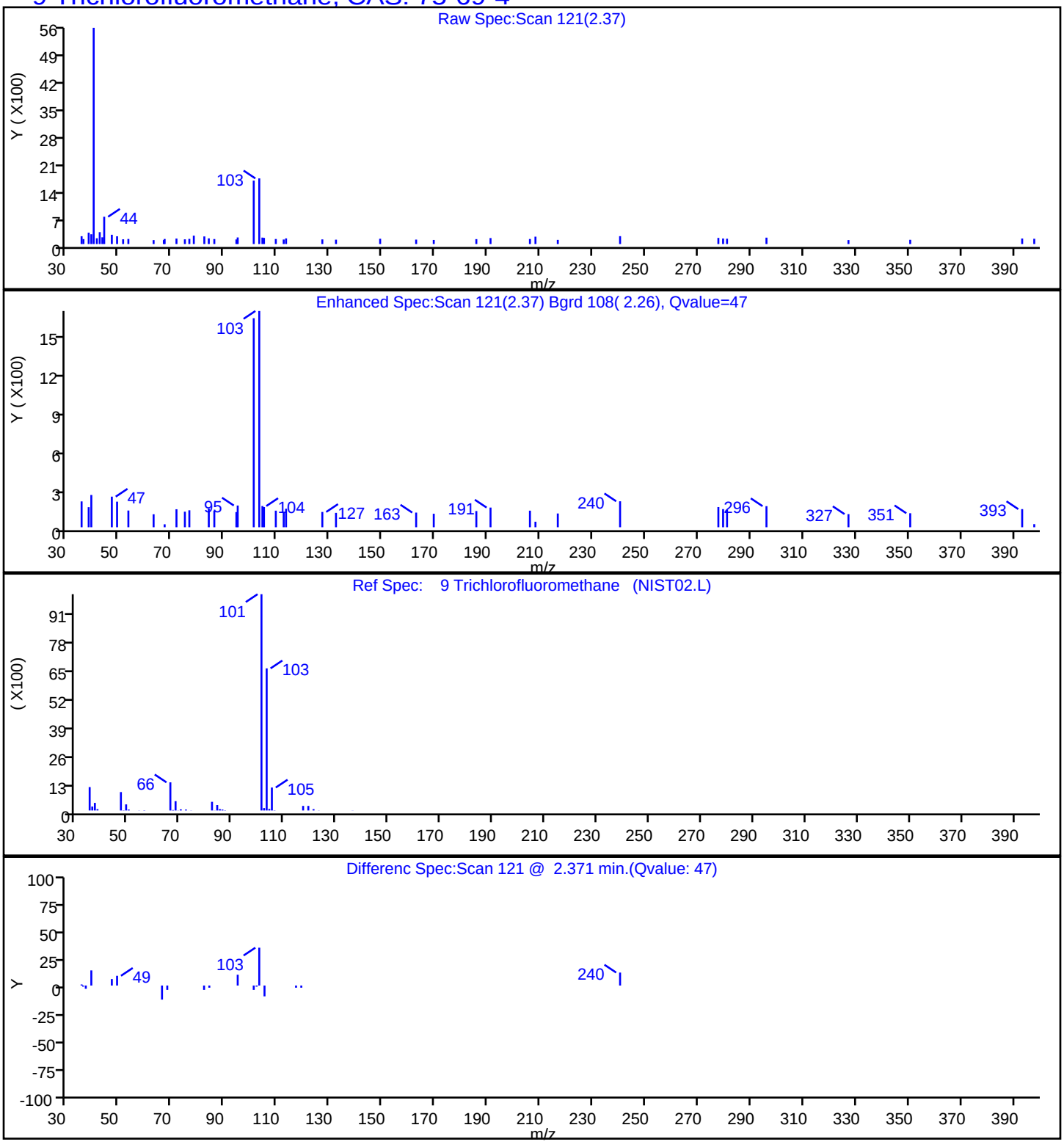
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

9 Trichlorofluoromethane, CAS: 75-69-4



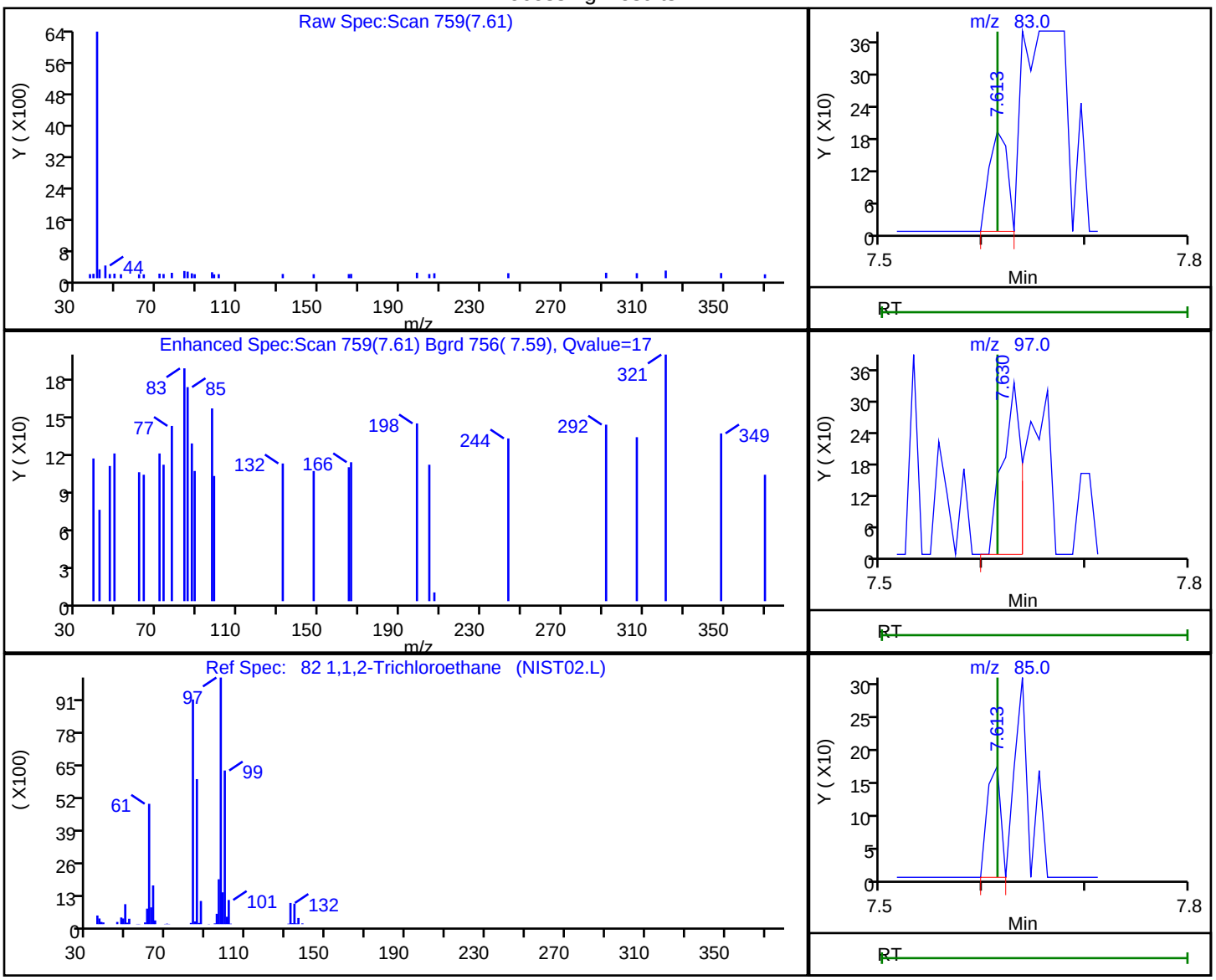
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

82 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.61	83.00	229	0.084156
7.63	97.00	418	
7.61	85.00	155	

Reviewer: moroneyc, 10-Jul-2018 06:32:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

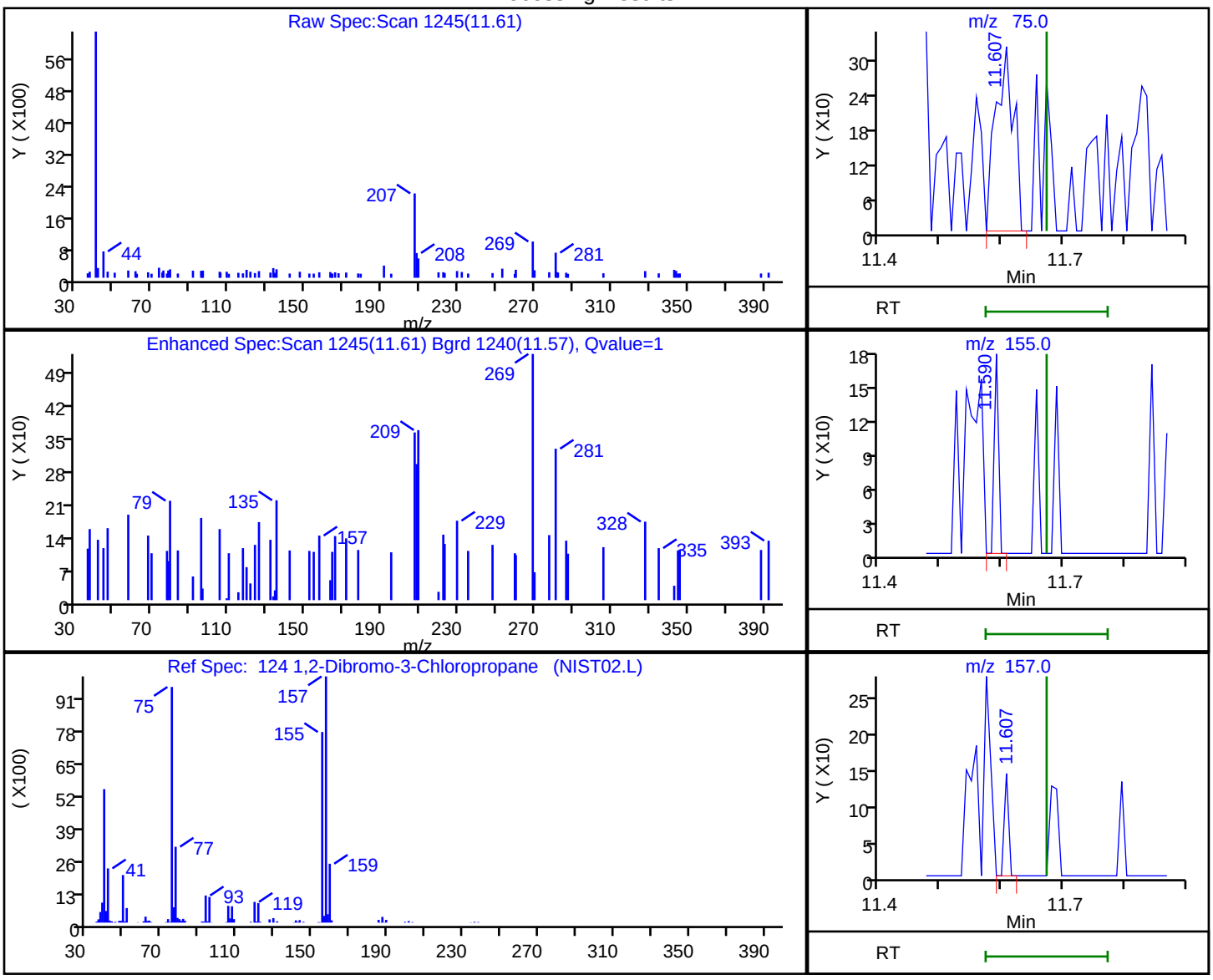
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

124 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
11.61	75.00	647	0.828325
11.59	155.00	86	
11.61	157.00	69	

Reviewer: moroneyc, 10-Jul-2018 06:32:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

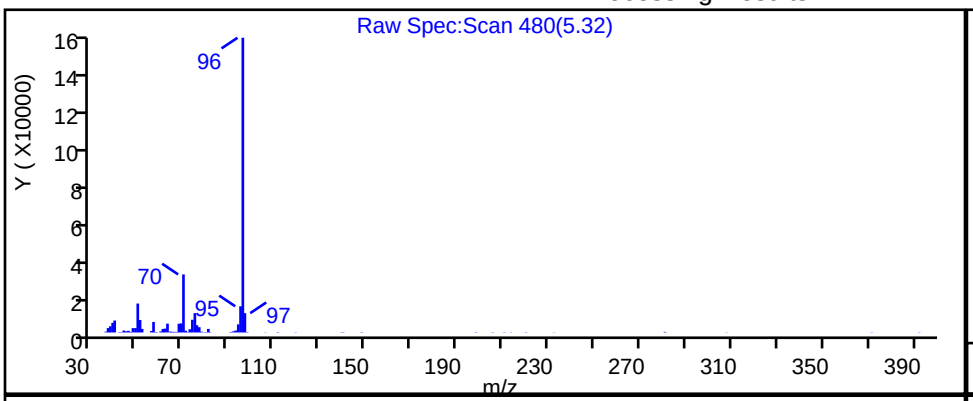
User Disabled Compound Report

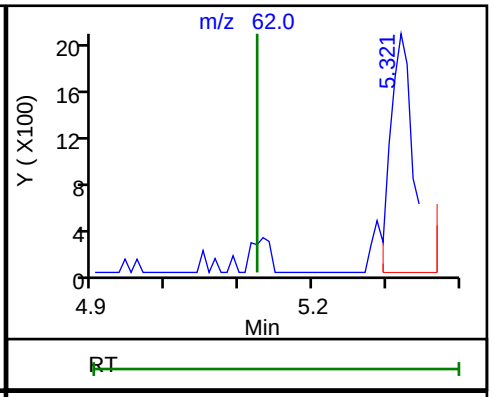
TestAmerica Edison

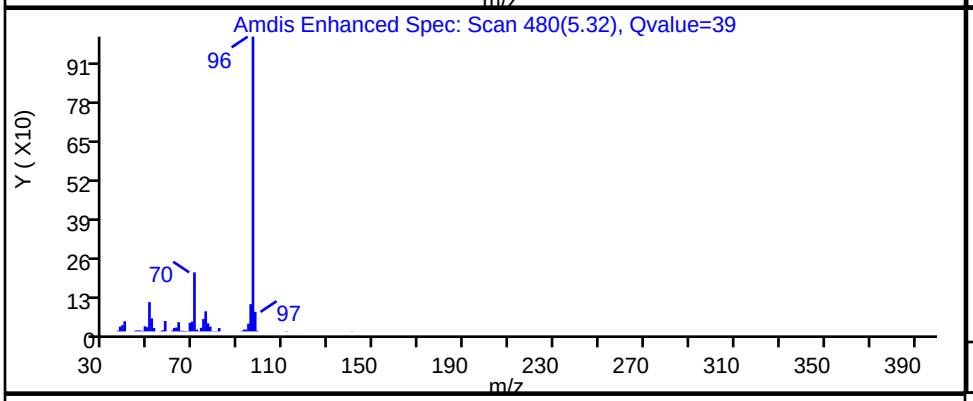
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

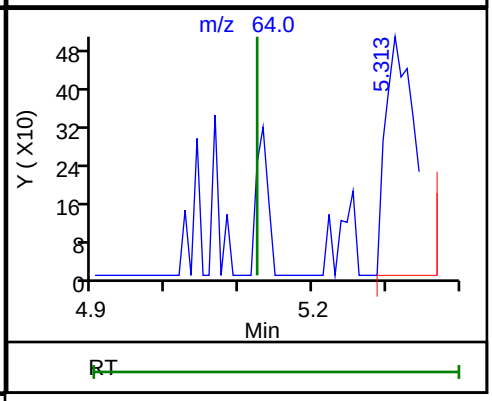
59 1,2-Dichloroethane, CAS: 107-06-2

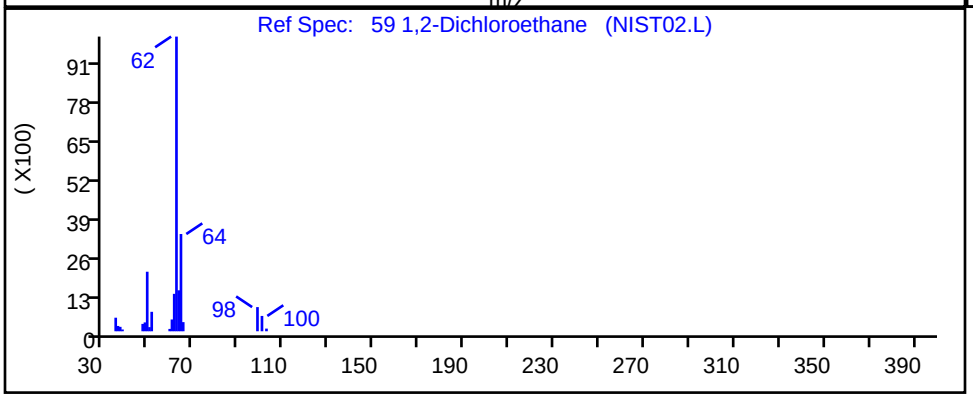
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4302	0.843920
5.31	64.00	1443	

Reviewer: moroneyc, 10-Jul-2018 06:32:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

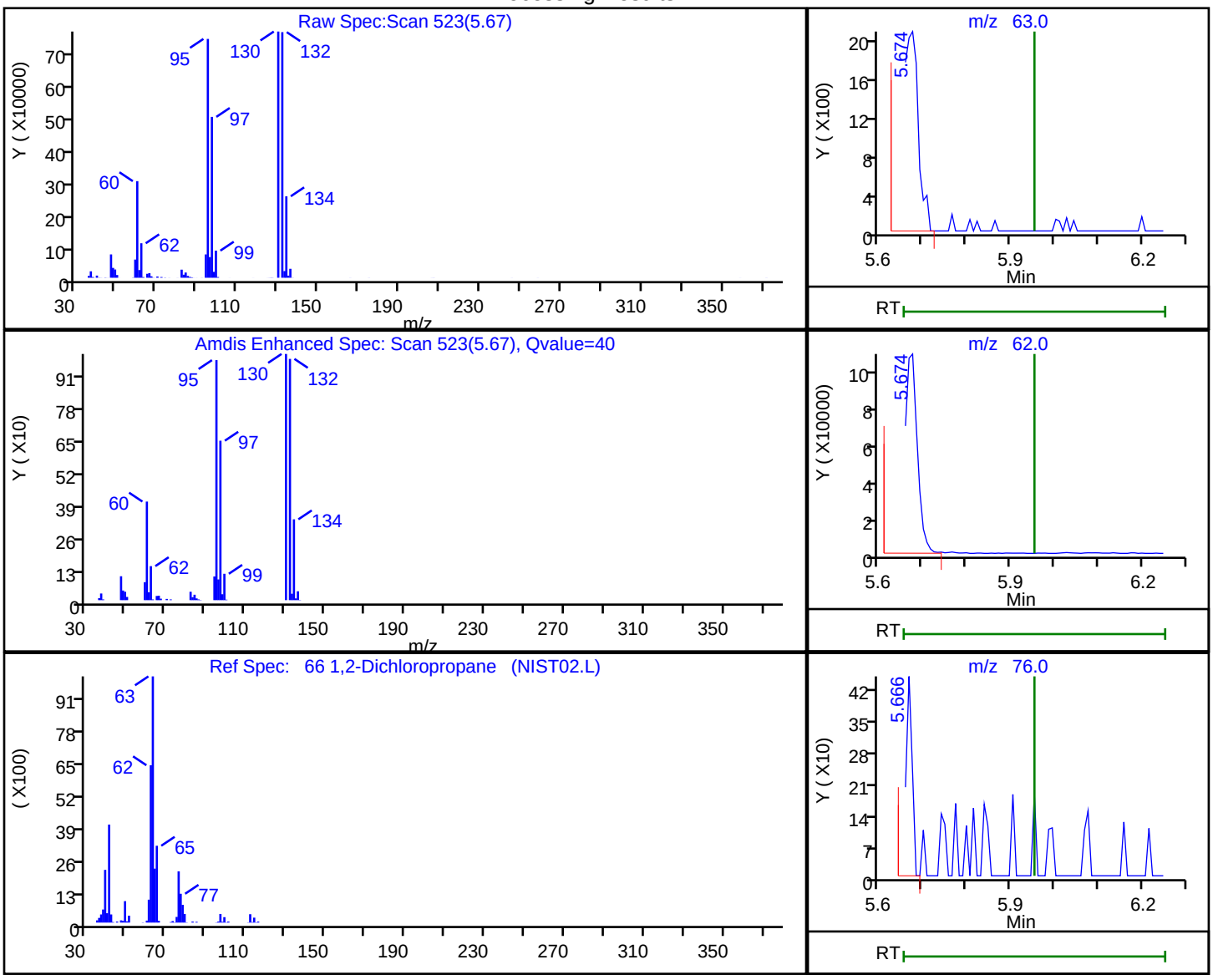
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

66 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.67	63.00	5422	1.232021
5.67	62.00	219929	
5.67	76.00	492	
5.95	112.00	0	

Reviewer: moroneyc, 10-Jul-2018 06:32:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.4096	0.2804 0.4198	0.3800	0.3596	0.3611	Ave		0.3684				13.5		20.0			
Dichlorodifluoromethane	+++++ 0.9777	0.8283 0.9557	0.9128	0.8433	0.8197	Ave		0.8896			0.1000	7.7		20.0			
Chloromethane	+++++ 1.0946	1.2253 1.0508	1.0793	1.0455	1.0241	Ave		1.0866			0.1000	6.7		20.0			
Vinyl chloride	+++++ 1.1118	1.1186 1.0738	1.1243	1.0610	1.0246	Ave		1.0857			0.1000	3.6		20.0			
Butadiene	1.1300 1.0188	0.9555 1.0017	0.9540	0.9273	0.9227	Ave		0.9872				7.3		20.0			
Bromomethane	+++++ 0.7167	0.9255 0.6884	0.7666	0.7234	0.6823	Ave		0.7505			0.1000	12.1		20.0			
Chloroethane	+++++ 0.6258	0.7473 0.6114	0.6492	0.6249	0.6129	Ave		0.6452			0.1000	8.0		20.0			
Dichlorofluoromethane	+++++ 1.2715	1.3349 1.2435	1.4903	1.4533	1.4233	Ave		1.3695				7.4		20.0			
Pentane	+++++ 5.8294	4.7800 6.1553	8.0669	6.7689	6.2964	Ave		6.3162				17.2		20.0			
Trichlorofluoromethane	+++++ 0.9581	1.0328 0.9605	1.1178	0.9969	0.9673	Ave		1.0055			0.1000	6.2		20.0			
Ethyl ether	+++++ 0.4484	0.4575 0.4436	0.4276	0.4648	0.4492	Ave		0.4485				2.8		20.0			
Ethanol	+++++ 0.0734	0.0984 0.0828	0.0633	0.0810	0.0782	Ave		0.0795				14.6		20.0			
2-Methyl-1,3-butadiene	+++++ 0.4724	0.5765 0.5286	0.5283	0.5301	0.4975	Ave		0.5222				6.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.4982	0.5781 0.5018	0.5727	0.5400	0.5116	Ave		0.5337				6.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 2.0079	1.4232 2.3497	2.0032	2.0775	1.7964	Ave		1.9430				16.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.5839	0.6433 0.6083	0.6927	0.6361	0.5719	Ave		0.6227			0.1000	7.1		20.0			
1,1-Dichloroethene	+++++ 0.5611	0.6315 0.5820	0.5820	0.5721	0.5403	Ave		0.5782			0.1000	5.3		20.0			
Acetone	+++++ 1.4873	1.1984 1.3439	1.4691	1.4384	1.6129	Ave		1.4250			0.0500	9.9		20.0			
Iodomethane	+++++ 1.0047	1.1316 0.9801	1.0719	1.0546	1.0182	Ave		1.0435				5.2		20.0			
Isopropyl alcohol	+++++ 1.0829	1.2824 1.2265	1.1822	1.1674	1.0766	Ave		1.1697				6.9		20.0			
Carbon disulfide	+++++ 2.1710	2.7367 2.1530	2.3962	2.2538	2.1717	Ave		2.3137			0.1000	9.8		20.0			
Allyl chloride	+++++ 1.0744	1.1771 1.0410	1.1252	1.1407	1.0800	Ave		1.1064				4.5		20.0			
Methyl acetate	+++++ 0.3317	0.3018 0.3359	0.3541	0.3493	0.3375	Ave		0.3351			0.1000	5.5		20.0			
Cyclopentene	+++++ 1.3821	1.4563 1.4642	1.5134	1.5115	1.4882	Ave		1.4693				3.3		20.0			
Acetonitrile	+++++ 3.4292	2.7672 3.5026	2.7498	4.3151	3.9149	Ave		3.4465				18.0		20.0			
Methylene Chloride	+++++ 0.6644	0.7691 0.6596	0.7613	0.7373	0.6789	Ave		0.7118			0.1000	7.0		20.0			
2-Methyl-2-propanol	+++++ 2.0964	1.9706 2.1826	2.0330	2.3111	2.0234	Ave		2.1028				6.0		20.0			
Methyl tert-butyl ether	+++++ 1.6461	1.8272 1.6192	1.7464	1.7855	1.6563	Ave		1.7134			0.1000	4.9		20.0			
trans-1,2-Dichloroethene	+++++ 0.6140	0.6787 0.5992	0.6422	0.6619	0.6401	Ave		0.6394			0.1000	4.6		20.0			
Acrylonitrile	0.2013 0.1958	0.1525 0.1866	0.1920	0.2072	0.2027	Ave		0.1912				9.6		20.0			
Hexane	+++++ 0.5119	0.5774 0.5259	0.5213	0.5040	0.4857	Ave		0.5210				6.0		20.0			
Isopropyl ether	+++++ 1.8871	1.9363 1.8725	1.9854	2.0933	1.9791	Ave		1.9590				4.1		20.0			
1,1-Dichloroethane	+++++ 1.0576	1.1663 1.0327	1.2735	1.1881	1.0977	Ave		1.1360			0.2000	8.0		20.0			
Vinyl acetate	+++++ 0.1137	0.0908 0.1156	0.1033	0.1199	0.1156	Ave		0.1098				9.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.5210	0.6296 0.5429	0.5460	0.5855	0.5576	Ave		0.5638				6.8		20.0			
Tert-butyl ethyl ether	+++++ 1.7986	1.8339 1.7883	1.7792	1.9536	1.8591	Ave		1.8355				3.6		20.0			
2,2-Dichloropropane	+++++ 0.2227	0.2819 0.2258	0.2383	0.2445	0.2249	Ave		0.2397				9.3		20.0			
cis-1,2-Dichloroethene	+++++ 0.6891	0.7157 0.6802	0.7561	0.7586	0.7161	Ave		0.7193			0.1000	4.6		20.0			
Ethyl acetate	+++++ 0.6179	0.8236 0.5744	0.6934	0.6275	0.6300	Ave		0.6611				13.3		20.0			
2-Butanone (MEK)	+++++ 0.6699	0.7017 0.6025	0.6650	0.6871	0.6488	Ave		0.6625			0.0500	5.2		20.0			
Methyl acrylate	+++++ 0.5537	0.5189 0.5682	0.4801	0.5793	0.5226	Ave		0.5371				6.9		20.0			
Propionitrile	+++++ 4.0126	2.6535 3.6997	3.5258	4.3234	4.1101	Ave		3.7209				16.0		20.0			
Chlorobromomethane	+++++ 0.3150	0.3275 0.3100	0.3574	0.3522	0.3292	Ave		0.3319				5.8		20.0			
Tetrahydrofuran	+++++ 0.7348	1.1823 0.6938	0.7781	0.8528	0.7221	Lin2	0.8910	0.7325							0.9940		0.9900
Methacrylonitrile	+++++ 0.2119	0.1985 0.2035	0.2013	0.2183	0.2131	Ave		0.2077				3.7		20.0			
Chloroform	+++++ 0.9832	0.9973 0.9606	1.0655	1.1186	1.0321	Ave		1.0262			0.2000	5.7		20.0			
Cyclohexane	+++++ 0.9577	0.9012 1.0013	0.9836	0.9580	0.9438	Ave		0.9576			0.1000	3.6		20.0			
1,1,1-Trichloroethane	+++++ 0.8551	1.0791 0.8547	0.9097	0.9053	0.8834	Ave		0.9145			0.1000	9.2		20.0			
Carbon tetrachloride	+++++ 0.7193	0.7564 0.7197	0.7826	0.7442	0.7338	Ave		0.7427			0.1000	3.3		20.0			
1,1-Dichloropropene	+++++ 0.7888	0.8023 0.7927	0.8481	0.8246	0.8006	Ave		0.8095				2.8		20.0			
Isobutyl alcohol	+++++ 1.8194	1.4958 1.8475	1.5174	1.7757	1.6967	Ave		1.6921				9.0		20.0			
Benzene	+++++ 3.3104	3.6749 3.0267	3.7998	3.6947	3.4293	Ave		3.4893			0.5000	8.3		20.0			
Isopropyl acetate	+++++ 1.4734	1.4099 1.5307	1.3661	1.4906	1.5226	Ave		1.4656				4.4		20.0			
Tert-amyl methyl ether	+++++ 1.9674	1.8095 1.9640	1.9490	2.0386	1.9844	Ave		1.9521				3.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.6746	0.9299 0.6733	0.7345	0.7338	0.6905	Ave		0.7395			0.1000	13.2		20.0			
n-Heptane	+++++ 0.4774	0.4095 0.4770	0.4331	0.4450	0.4483	Ave		0.4484				5.8		20.0			
n-Butanol	+++++ 0.5571	0.0376 0.6177	0.2230	0.4286	0.4365	QuaF		0.5018	0.0000093						1.0000		0.9900
Trichloroethene	+++++ 0.5879	0.6922 0.5847	0.6151	0.6251	0.5924	Ave		0.6162			0.2000	6.6		20.0			
Ethyl acrylate	+++++ 1.4549	0.9726 1.4928	1.3013	1.4040	1.4028	Ave		1.3381				14.2		20.0			
Methylcyclohexane	+++++ 1.1400	0.9621 1.1612	1.0701	1.0983	1.0861	Ave		1.0863			0.1000	6.4		20.0			
1,2-Dichloropropane	+++++ 0.6277	0.6182 0.6312	0.6628	0.6612	0.6292	Ave		0.6384			0.1000	2.9		20.0			
Methyl methacrylate	+++++ 0.1377	0.0706 0.1403	0.1063	0.1272	0.1276	Lin2	-0.128	0.1319							0.9960		0.9900
1,4-Dioxane	+++++ 1.5125	1.9725 +++++	1.8476	2.2013	2.0100	Ave		1.9088				13.4		20.0			
Dibromomethane	+++++ 0.3445	0.4238 0.3447	0.3478	0.3748	0.3454	Ave		0.3635				8.7		20.0			
n-Propyl acetate	+++++ 0.6314	0.5563 0.6721	0.5213	0.5840	0.5910	Ave		0.5927				9.0		20.0			
Bromodichloromethane	+++++ 0.7719	0.8223 0.7650	0.7444	0.7892	0.7655	Ave		0.7764			0.2000	3.4		20.0			
2-Nitropropane	+++++ 0.1014	0.1413 0.1089	0.1154	0.0997	0.0977	Ave		0.1107				14.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.3148	0.2196 0.3345	0.2286	0.2778	0.2990	Ave		0.2790				16.7		20.0			
Epichlorohydrin	0.4005 0.5447	0.4639 0.4952	0.4988	0.5495	0.5520	Ave		0.5007				11.1		20.0			
cis-1,3-Dichloropropene	+++++ 1.3044	1.2393 1.2677	1.2216	1.3105	1.2585	Ave		1.2670			0.2000	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 5.4727	4.0897 4.6357	5.1063	5.6364	5.7376	Ave		5.1131			0.0500	12.6		20.0			
Toluene	+++++ 3.3961	3.6696 3.0580	3.7301	3.7647	3.5451	Ave		3.5273			0.4000	7.6		20.0			
trans-1,3-Dichloropropene	+++++ 1.0688	1.0837 1.0692	1.0537	1.0444	1.0192	Ave		1.0565			0.1000	2.2		20.0			
Ethyl methacrylate	+++++ 0.9796	0.6332 0.9678	0.7782	0.9031	0.9282	Ave		0.8650				15.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	+++++ 0.5745	0.5531 0.5695	0.6305	0.6279	0.5687	Ave		0.5874			0.1000	5.7		20.0			
Tetrachloroethene	+++++ 0.8255	0.9118 0.8010	0.9151	0.8829	0.8347	Ave		0.8618			0.2000	5.6		20.0			
1,3-Dichloropropane	+++++ 1.1271	1.0600 1.1073	1.0752	1.1838	1.1141	Ave		1.1112				3.9		20.0			
2-Hexanone	+++++ 3.2781	1.1322 2.9377	2.5032	3.1028	3.1594	Lin2	-10.09	3.1150			0.0500				0.9970		0.9900
n-Butyl acetate	+++++ 0.9999	0.3685 1.0361	0.9370	0.9905	0.9799	Lin2	-0.646	1.0229							0.9990		0.9900
Dibromochloromethane	+++++ 0.7500	0.7957 0.7302	0.7604	0.7919	0.7391	Ave		0.7612			0.1000	3.6		20.0			
1,2-Dibromoethane	+++++ 0.6487	0.5889 0.6297	0.6773	0.6642	0.6354	Ave		0.6407			0.1000	4.8		20.0			
Chlorobenzene	+++++ 2.1535	2.3059 2.0575	2.2586	2.3358	2.2118	Ave		2.2205			0.5000	4.6		20.0			
Ethylbenzene	+++++ 1.2461	1.3386 1.2210	1.2522	1.3569	1.2809	Ave		1.2826			0.1000	4.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.8110	0.8669 0.7777	0.8831	0.8775	0.8351	Ave		0.8419				5.0		20.0			
m-Xylene & p-Xylene	+++++ 1.5415	1.4107 1.4918	1.5428	1.6449	1.5364	Ave		1.5280			0.1000	5.0		20.0			
n-Butyl acrylate	+++++ 0.6188	0.2809 0.6462	0.4751	0.5178	0.5948	Lin2	-0.323	0.5909							0.9930		0.9900
o-Xylene	+++++ 1.5915	1.4835 1.5171	1.5683	1.6948	1.6265	Ave		1.5803			0.3000	4.8		20.0			
Styrene	+++++ 2.5276	2.3069 2.3304	2.3223	2.6994	2.5486	Ave		2.4559			0.3000	6.5		20.0			
Amyl acetate (mixed isomers)	+++++ 2.3224	0.8397 2.4796	1.6152	2.1243	2.1920	Lin2	-1.470	2.2418							0.9920		0.9900
Bromoform	+++++ 0.4899	0.5027 0.4653	0.4897	0.5078	0.4728	Ave		0.4880			0.1000	3.4		20.0			
Isopropylbenzene	+++++ 3.8165	3.5634 3.1366	3.9695	4.2458	4.0536	Ave		3.7976			0.1000	10.5		20.0			
Bromobenzene	+++++ 1.6482	1.8777 1.6436	1.6332	1.8636	1.6992	Ave		1.7276				6.6		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.5709	1.5903 1.5945	1.6768	1.7730	1.5659	Ave		1.6286			0.3000	5.0		20.0			
N-Propylbenzene	+++++ 7.6180	8.1580 6.1500	8.2138	9.1630	8.2260	Ave		7.9215				12.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.4200	0.5783 0.4327	0.4124	0.4700	0.4437	Ave		0.4595				13.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3721	0.1503 0.4001	0.3090	0.3834	0.3483	Lin2	-0.229	0.3760							0.9970		0.9900
2-Chlorotoluene	+++++ 5.4332	5.7173 4.8935	5.6074	6.2164	5.6221	Ave		5.5817				7.7		20.0			
4-Ethyltoluene	+++++ 6.4488	5.9268 5.6710	6.5017	7.7042	6.9316	Ave		6.5307				11.1		20.0			
1,3,5-Trimethylbenzene	+++++ 5.7514	5.6407 4.9391	5.7673	6.5723	5.8637	Ave		5.7558				9.1		20.0			
4-Chlorotoluene	+++++ 4.7994	4.9389 4.3616	4.9939	5.5613	4.9676	Ave		4.9371				7.8		20.0			
Butyl Methacrylate	+++++ 2.2408	1.2332 2.2743	1.5331	1.9717	2.1110	Qua2	-0.781	1.9628	0.0007536						0.9940		0.9900
tert-Butylbenzene	+++++ 4.8882	4.3097 4.3296	4.4633	5.0540	4.8145	Ave		4.6432				6.8		20.0			
1,2,4-Trimethylbenzene	+++++ 5.8657	5.4970 4.9186	5.9293	6.7587	6.1651	Ave		5.8557				10.6		20.0			
sec-Butylbenzene	+++++ 7.2632	7.0570 5.6427	7.4105	8.0792	7.4519	Ave		7.1508				11.4		20.0			
4-Isopropyltoluene	+++++ 6.2551	5.6428 5.1011	5.9227	6.9414	6.3807	Ave		6.0406				10.5		20.0			
1,3-Dichlorobenzene	+++++ 3.2744	3.3013 3.1236	3.4851	3.7755	3.3672	Ave		3.3878			0.6000	6.6		20.0			
1,4-Dichlorobenzene	+++++ 3.2988	3.4735 3.1073	3.6511	3.9374	3.4887	Ave		3.4928			0.5000	8.2		20.0			
1,2,3-Trimethylbenzene	+++++ 6.1220	6.2852 5.0972	6.2669	7.0617	6.5002	Ave		6.2222				10.3		20.0			
Benzyl chloride	+++++ 3.3289	2.4567 3.1190	2.9110	3.5139	3.3271	Ave		3.1094				12.2		20.0			
Indan	+++++ 5.9743	6.2702 4.8508	6.5989	7.2731	6.5661	Ave		6.2556				13.0		20.0			
p-Diethylbenzene	+++++ 3.5449	3.4328 3.3779	3.7857	4.2794	3.8947	Ave		3.7192				9.1		20.0			
n-Butylbenzene	+++++ 3.4414	3.2999 3.2486	3.3995	3.8000	3.4829	Ave		3.4454				5.6		20.0			
1,2-Dichlorobenzene	+++++ 3.1989	3.4638 2.9521	3.4896	3.7870	3.4658	Ave		3.3929			0.4000	8.4		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 5.8178	5.6373 4.6891	5.5967	6.8353	6.2514	Ave		5.8046				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.2908	0.3163 0.2930	0.3059	0.3146	0.2796	Ave		0.3001			0.0500	4.9		20.0			
1,3,5-Trichlorobenzene	+++++ 2.4805	2.7233 2.3701	2.7171	2.8699	2.7097	Ave		2.6451				6.9		20.0			
1,2,4-Trichlorobenzene	+++++ 2.3908	2.0941 2.2343	2.3196	2.5877	2.4865	Ave		2.3522			0.2000	7.5		20.0			
Hexachlorobutadiene	+++++ 1.0787	1.2625 1.0285	1.1443	1.1111	1.0674	Ave		1.1154				7.4		20.0			
Naphthalene	+++++ 5.3551	4.1545 4.5511	4.6050	5.5966	5.6051	Ave		4.9779				12.4		20.0			
1,2,3-Trichlorobenzene	+++++ 2.1439	2.4818 1.9963	2.1657	2.4524	2.2920	Ave		2.2553				8.4		20.0			
Dibromofluoromethane (Surr)	0.2645 0.2342	0.2554 0.2323	0.2538	0.2530	0.2510	Ave		0.2492				4.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2621 0.2746	0.2672 0.2970	0.2520	0.2554	0.2550	Ave		0.2662				5.9		20.0			
Toluene-d8 (Surr)	1.3741 1.3672	1.3758 1.3366	1.4239	1.3803	1.3891	Ave		1.3782				1.9		20.0			
4-Bromofluorobenzene	0.3965 0.3978	0.4179 0.3853	0.4145	0.4087	0.4046	Ave		0.4036				2.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 709694	2101 1936409	14256	55175	141971	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 1693948	6206 4408691	34244	129388	322297	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1896409	9180 4846961	40491	160414	402640	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 1926255	8381 4953087	42176	162796	402833	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	1864 1765160	7159 4620836	35790	142283	362789	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 1241756	6934 3175435	28760	110997	268251	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 1084123	5599 2820281	24353	95876	240980	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 2202861	10001 5736092	55907	222984	559613	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 352397	1110 1096295	10144	34097	86045	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 1659910	7738 4430449	41932	152955	380312	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 776872	3428 2046129	16040	71323	176623	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd 9	Ave	+++++ 88716	457 294889	1593	8161	21379	+++++ 8000	40.0 20000	200	800	2000
2-Methyl-1,3-butadiene	FB	Ave	+++++ 818433	4319 2438118	19820	81333	195604	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 863219	4331 2314842	21483	82854	201129	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd 9	Ave	+++++ 60692	661 167400	5038	10465	24549	+++++ 200	4.00 400	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1011610	4820 2805995	25985	97594	224849	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 972069	4731 2684576	21834	87779	212440	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 1098210	3274 2964336	20985	87955	253164	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1740678	8478 4521161	40210	161807	400327	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 327318	1489 1092262	7433	29403	73566	+++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	+++++ 3761206	20504 9931387	89893	345818	853831	+++++ 200	1.00 500	5.00	20.0	50.0
Allyl chloride	FB	Ave	+++++ 1861456	8819 4802050	42210	175027	424625	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 1149470	4522 3098846	26571	107177	265412	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 2394522	10911 6754156	56774	231916	585122	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 1036510	3213 3119121	17289	108682	267502	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 1151163	5762 3042833	28558	113133	266928	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 633643	2288 1943662	12782	58208	138256	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 2851896	13690 7468949	65514	273962	651186	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 1063814	5085 2764093	24093	101552	251677	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	2656 3392609	11424 8608034	72019	317916	797034	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	+++++ 886813	4326 2425866	19556	77335	190970	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 3269485	14507 8637675	74480	321190	778104	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1832242	8738 4763691	47774	182293	431590	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 393956	1360 1066727	7751	36794	90865	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 902621	4717 2504213	20482	89837	219242	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 3116079	13740 8249314	66745	299751	730944	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 385912	2112 1041602	8939	37516	88442	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1193877	5362 3137762	28363	116397	281551	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 182512	900 506767	3962	15347	39552	+++++ 400	2.00 1000	10.0	40.0	100
2-Butanone (MEK)	BUT	Ave	+++++ 494630	1917 1328915	9499	42012	101840	+++++ 1000	5.00 2500	25.0	100	250
Methyl acrylate	CBNZ d5	Ave	+++++ 703275	2625 1967582	12350	63052	148390	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 1212845	3081 3294672	22168	108891	280840	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 545825	2454 1429859	13409	54045	129441	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Lin2	+++++ 217035	1292 612177	4446	20859	45338	+++++ 400	2.00 1000	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 3671286	14869 9385838	75501	334922	837786	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 1703395	7472 4430844	39973	171632	405786	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1659263	6752 4618908	36899	146994	371058	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 1481430	8085 3942526	34126	138900	347317	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 1246124	5667 3319730	29360	114190	288500	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 1366551	6011 3656797	31815	126530	314753	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 1374822	4342 4113074	23852	111808	289826	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZ d5	Ave	+++++ 4204764	18589 10481196	97753	402110	973646	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 2552684	10563 7060860	51248	228711	598652	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 3408504	13557 9059390	73115	312799	780186	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 1168815	6967 3106032	27555	112597	271491	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 827096	3068 2200144	16247	68281	176244	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd 9	QuaF	+++++ 420980	109 1375300	3506	26985	74557	+++++ 5000	25.0 12500	125	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	+++++ 1018520	5186 2697116	23075	95905	232897	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 2520560	7287 6886192	48819	215422	551536	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1975138	7208 5356346	40143	168517	427028	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 1087509	4632 2911396	24865	101451	247397	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Lin2	+++++ 477153	1058 1294397	7979	39048	100300	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 112735	953 +++++	2029	10773	26419	+++++ 4000	50.0 +++++	100	400	1000
Dibromomethane	FB	Ave	+++++ 596905	3175 1590260	13049	57505	135812	+++++ 200	1.00 500	5.00	20.0	50.0
n-Propyl acetate	FB	Ave	+++++ 1093852	4168 3100296	19557	89611	232351	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 1337273	6161 3528767	27927	121094	300964	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 351273	2118 1004773	8656	30596	76847	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 545482	1645 1542778	8574	42627	117559	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	998 1608905	5069 4369507	28499	134393	346568	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1656751	6269 4389929	31426	142629	357305	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 4041093	11173 10225528	72940	344643	900558	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	+++++ 4313597	18562 10589556	95962	409728	1006532	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1357534	5482 3702694	27107	113666	289370	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 1244261	3203 3351463	20020	98286	263543	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 729655	2798 1972178	16220	68341	161457	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 1048499	4612 2773903	23541	96096	236993	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 1431570	5362 3834334	27661	128841	316304	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Lin2	+++++ 2420551	3093 6479984	35757	189724	495888	+++++ 1000	5.00 2500	25.0	100	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Lin2	+++++ 1269986	1864 3587927	24106	107797	278220	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 952604	4025 2528593	19562	86190	209847	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 823898	2979 2180576	17425	72287	180408	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 2735326	11664 7124946	58106	254215	627990	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1582697	6771 4228207	32213	147681	363682	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 1030138	4385 2693250	22718	95501	237090	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1957917	7136 5166108	39690	179024	436228	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Lin2	+++++ 786020	1421 2237636	12223	56357	168864	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 2021512	7504 5253468	40346	184452	461789	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 3210461	11669 8069972	59744	293795	723592	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Lin2	+++++ 1680483	2413 4681947	25124	129234	361611	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 622246	2543 1611171	12599	55269	134241	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 4847598	18025 10861682	102121	462092	1150898	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 1192585	5396 3103431	25405	113372	280301	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 1136664	4570 3010711	26083	107861	258315	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 5512304	23444 11612551	127766	557431	1357000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 303924	1662 816999	6415	28590	73193	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 269249	432 755508	4806	23323	57460	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 3931428	16430 9240017	87223	378178	927450	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 4666273	17032 10708126	101134	468686	1143475	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 4161635	16210 9326055	89710	399827	967312	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 3472777	14193 8235664	77680	338320	819475	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 1621447	3544 4294317	23847	119948	348236	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 3537058	12385 8175185	69427	307464	794229	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 4244360	15797 9287375	92231	411165	1017023	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 5255599	20280 10654597	115270	491501	1229308	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 4526133	16216 9632021	92127	422281	1052591	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 2369298	9487 5898093	54210	229685	555469	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 2386982	9982 5867301	56793	239534	575508	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 4429798	18062 9624666	97482	429601	1072303	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 2408788	7060 5889342	45280	213768	548852	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 4322939	18019 9159299	102646	442460	1083183	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 2565032	9865 6378237	58887	260337	642482	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2490143	9483 6134003	52880	231171	574560	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 2314674	9954 5574171	54281	230380	571740	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 4209686	16200 8853963	87056	415827	1031262	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 210427	909 553314	4759	19141	46130	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1794877	7826 4475172	42265	174592	447000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1729926	6018 4218831	36082	157425	410186	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 780509	3628 1941946	17800	67593	176091	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 3874891	11939 8593464	71630	340468	924647	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1551295	7132 3769448	33688	149191	378094	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	87274 101418	95672 107167	95222	97066	98684	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	86458 118946	100077 137011	94533	97955	100245	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	309037 434144	347975 462865	366322	375578	394381	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	89171 126322	105689 133441	106636	111206	114885	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Jul-2018 08:14:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0075068-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:59:57 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 08:34:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.853	1.837	0.016	71	1864	0.2500	0.2862	
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	105363	1000.0	1000.0	
31 Acrylonitrile	53	3.464	3.448	0.016	67	2656	2.00	2.11	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	124582	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	87274	50.0	53.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	86458	50.0	49.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	329916	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	9358	1000.0	1000.0	
75 Epichlorohydrin	57	6.718	6.685	0.033	1	998	5.00	4.00	a
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	98	309037	50.0	49.9	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	224904	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	89171	50.0	49.1	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	120459	50.0	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.50	Units: uL	
ACROLEIN W_00078	Amount Added:	0.00	Units: uL	
GAS Hi_00262	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00051	Amount Added:	20.00	Units: uL	
14DIOXINTER_00086	Amount Added:	0.00	Units: uL	
Ethanol mix_00017	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	0.00	Units: uL	
MIX I Hi_00095	Amount Added:	0.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

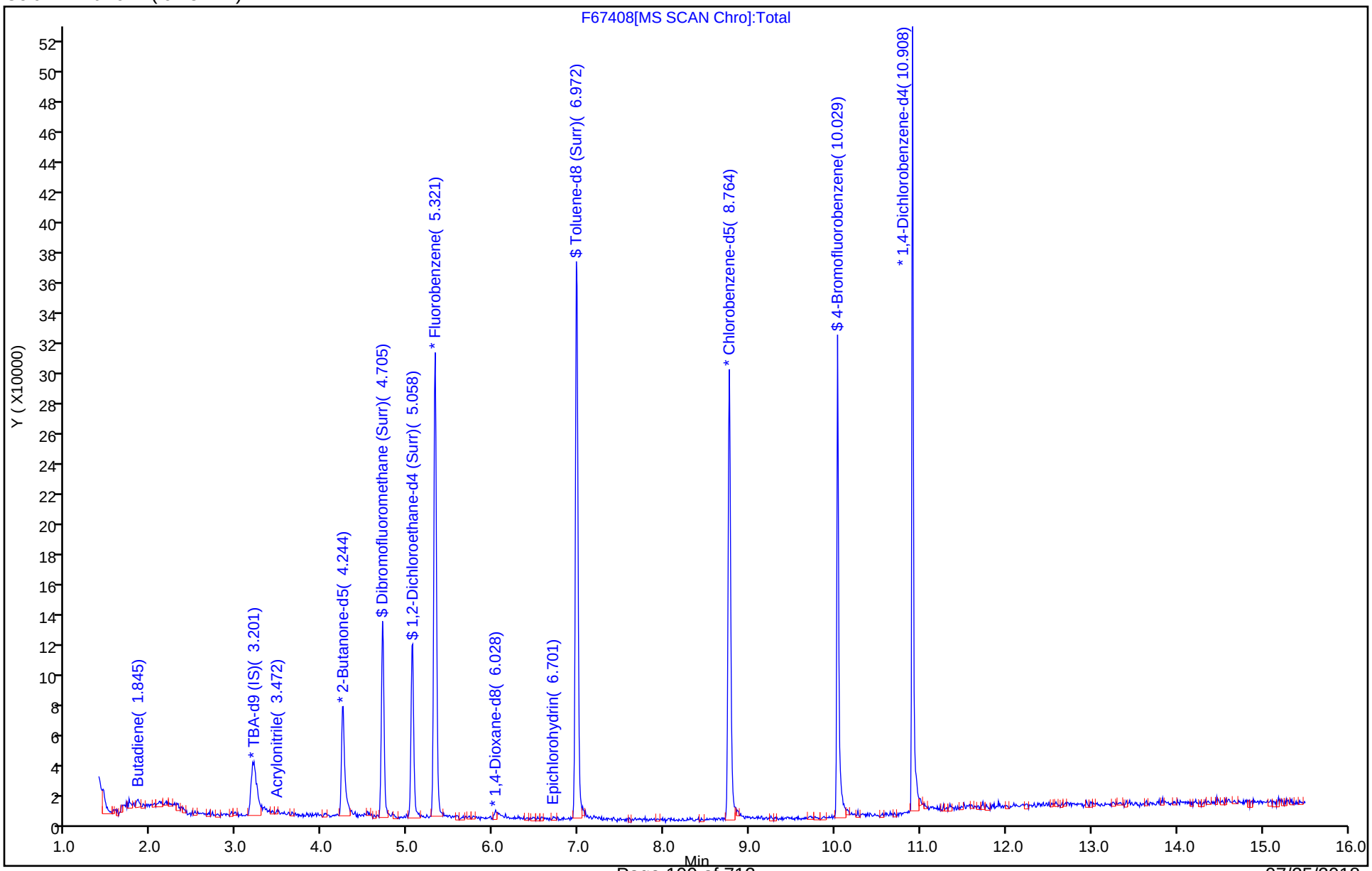
Report Date: 08-Jul-2018 18:59:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D

Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

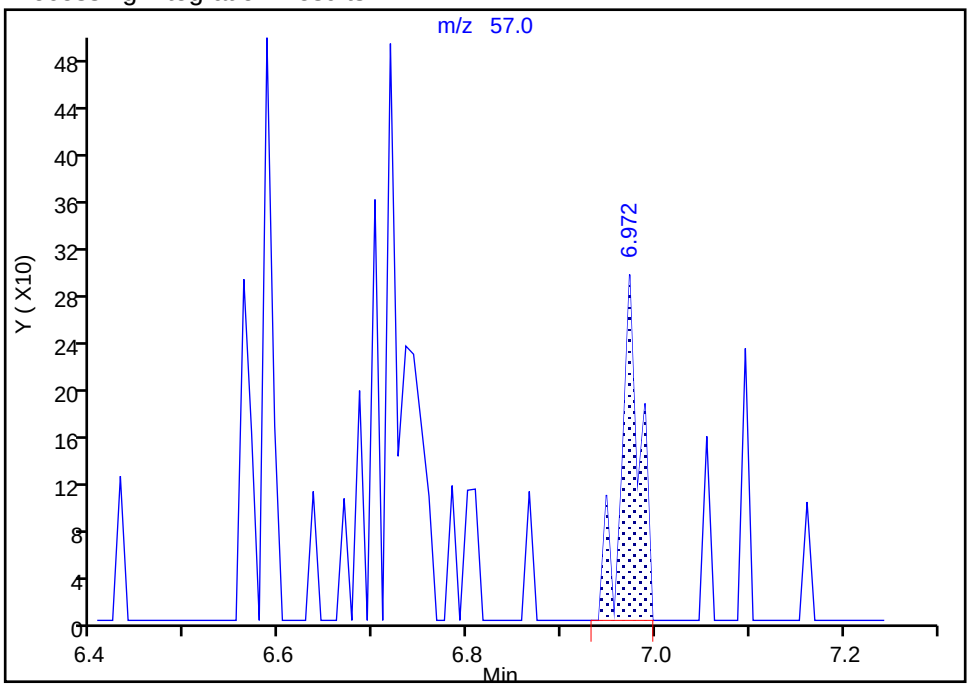
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

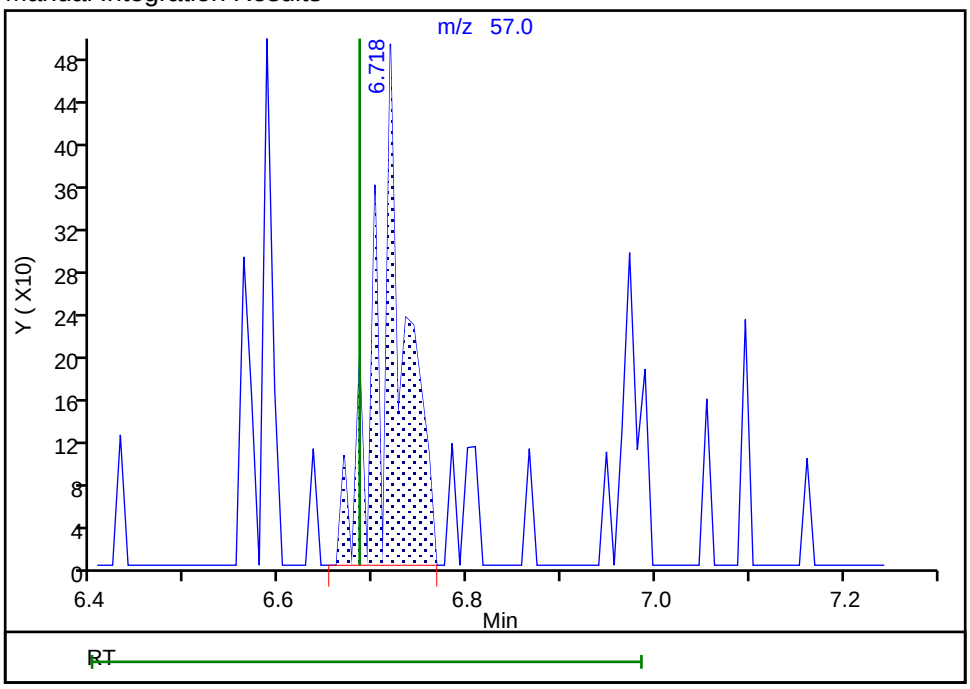
Processing Integration Results

RT: 6.97
Area: 405
Amount: 1.414336
Amount Units: ug/l



Manual Integration Results

RT: 6.72
Area: 998
Amount: 4.000129
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:27:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

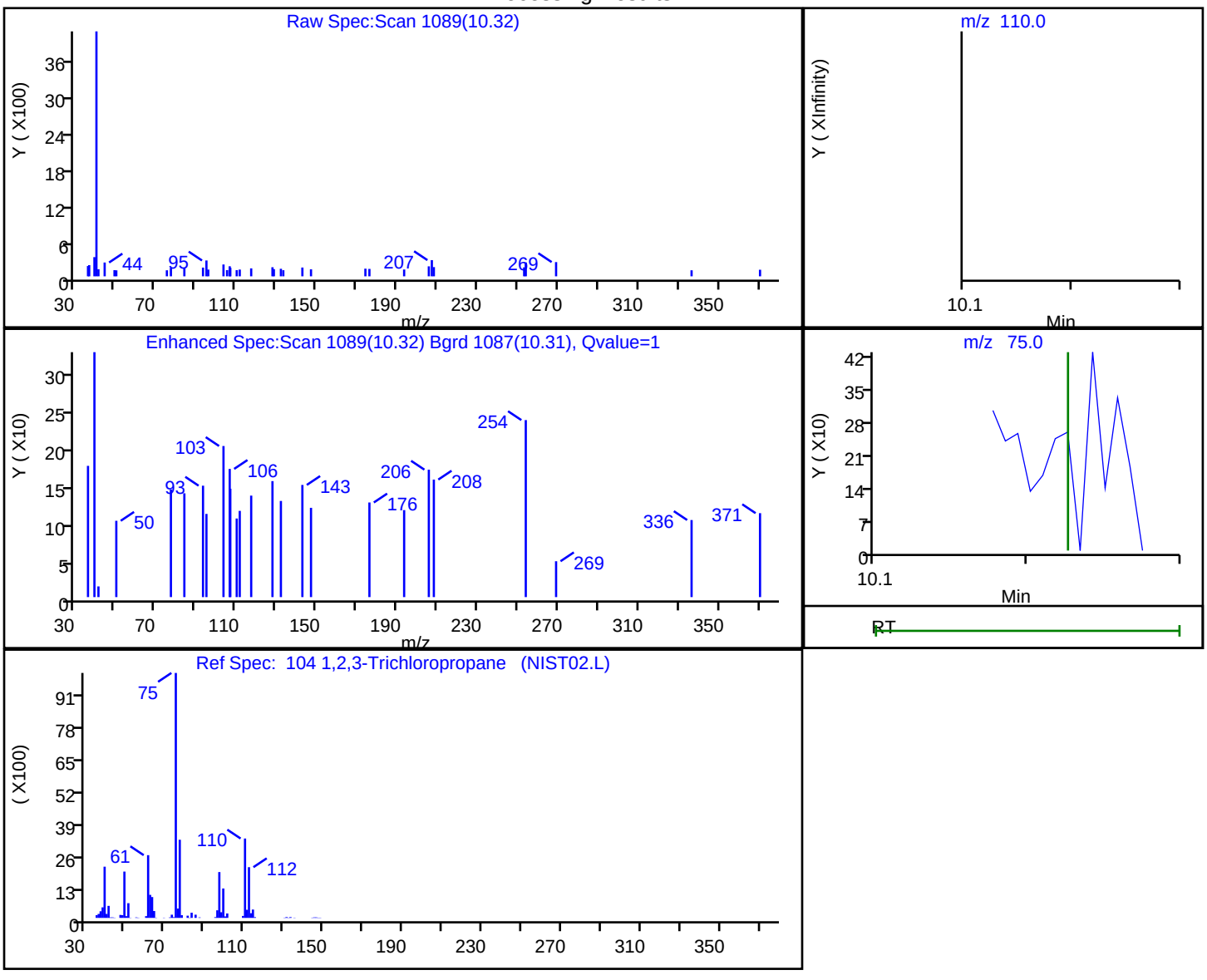
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
10.32	110.00	51	0.046068
10.33	75.00	277	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

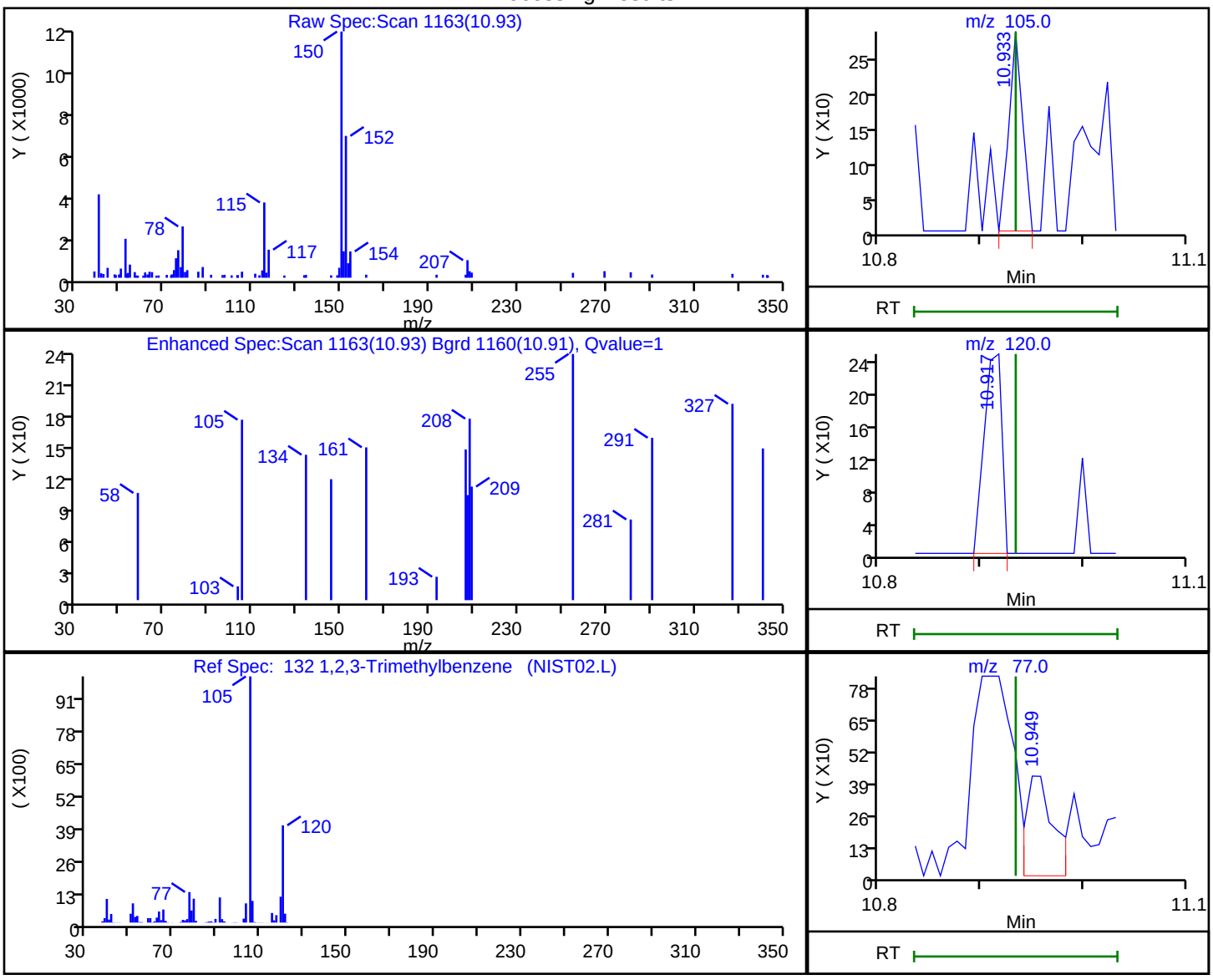
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.93	105.00	269	0.017945
10.92	120.00	300	
10.95	77.00	784	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

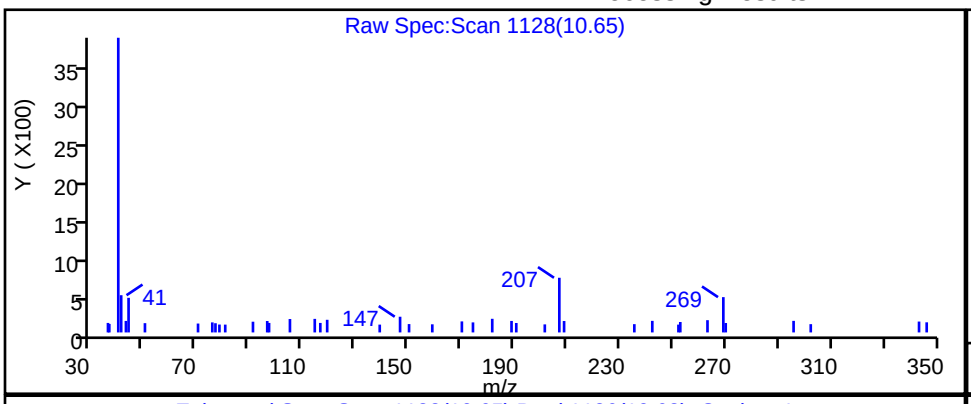
User Disabled Compound Report

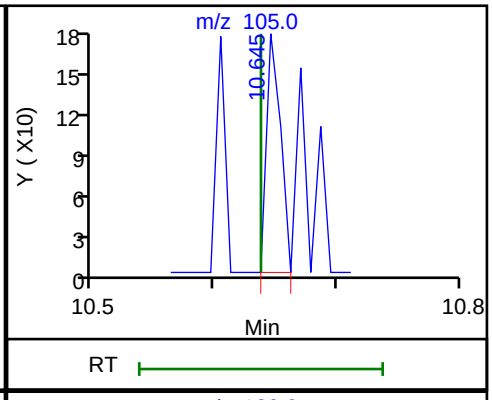
TestAmerica Edison

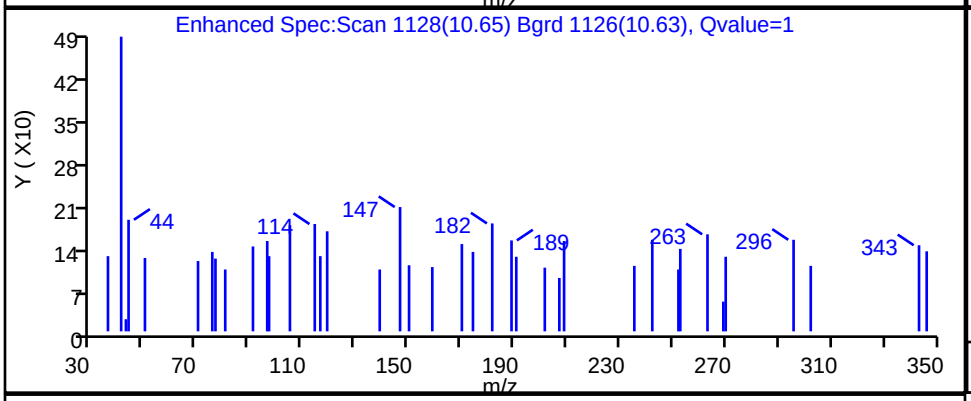
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

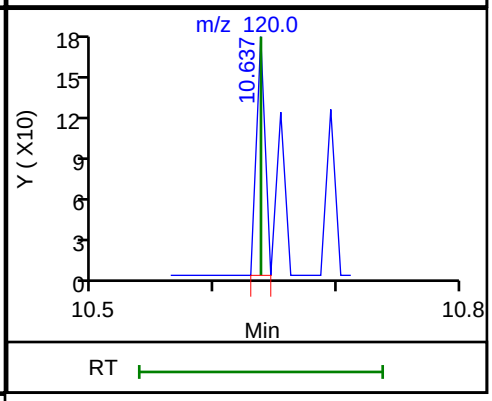
112 1,2,4-Trimethylbenzene, CAS: 95-63-6

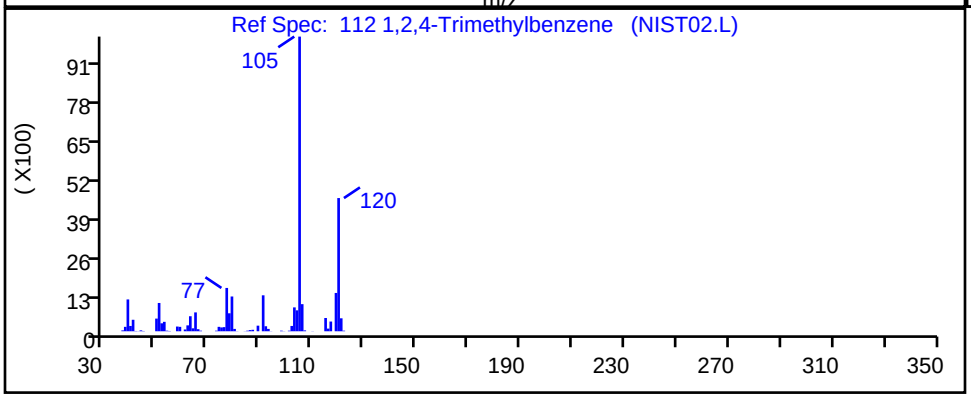
Processing Results











RT	Mass	Response	Amount
10.65	105.00	139	0.009853
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

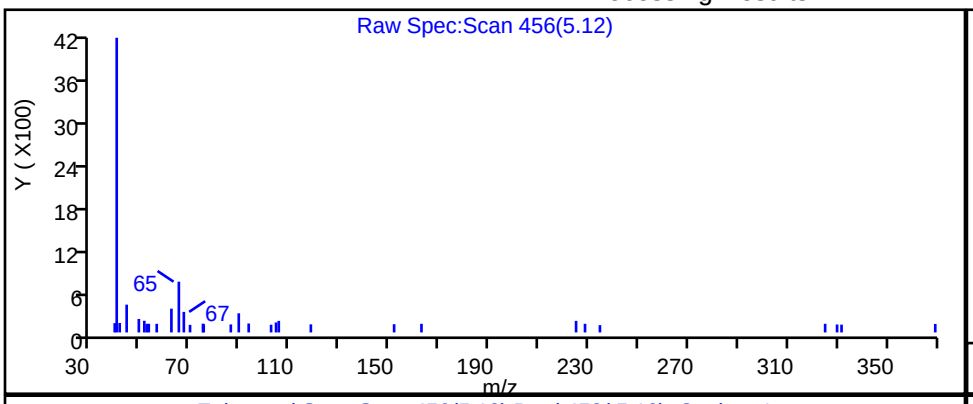
User Disabled Compound Report

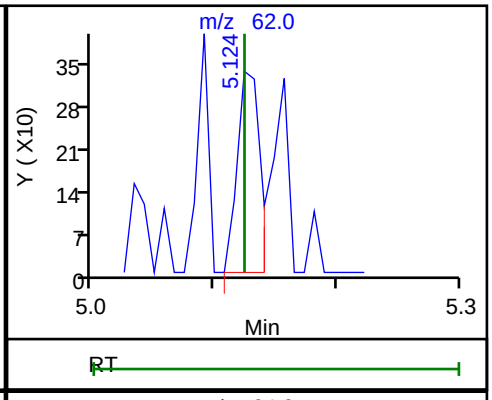
TestAmerica Edison

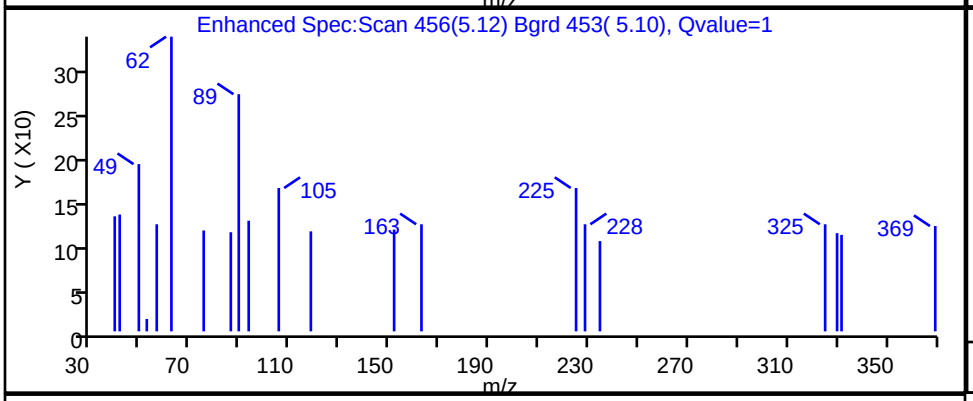
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

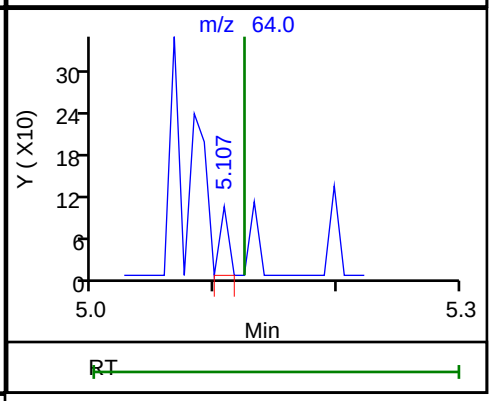
59 1,2-Dichloroethane, CAS: 107-06-2

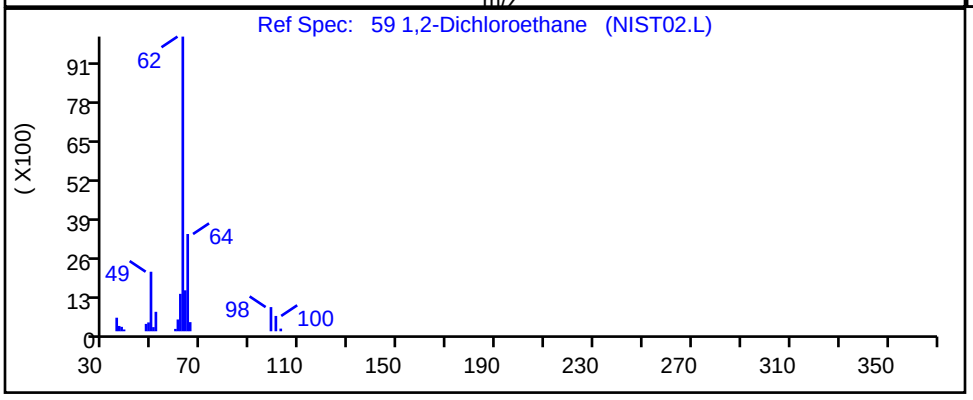
Processing Results











RT	Mass	Response	Amount
5.12	62.00	435	0.089154
5.11	64.00	49	

Reviewer: delpolitov, 08-Jul-2018 17:41:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

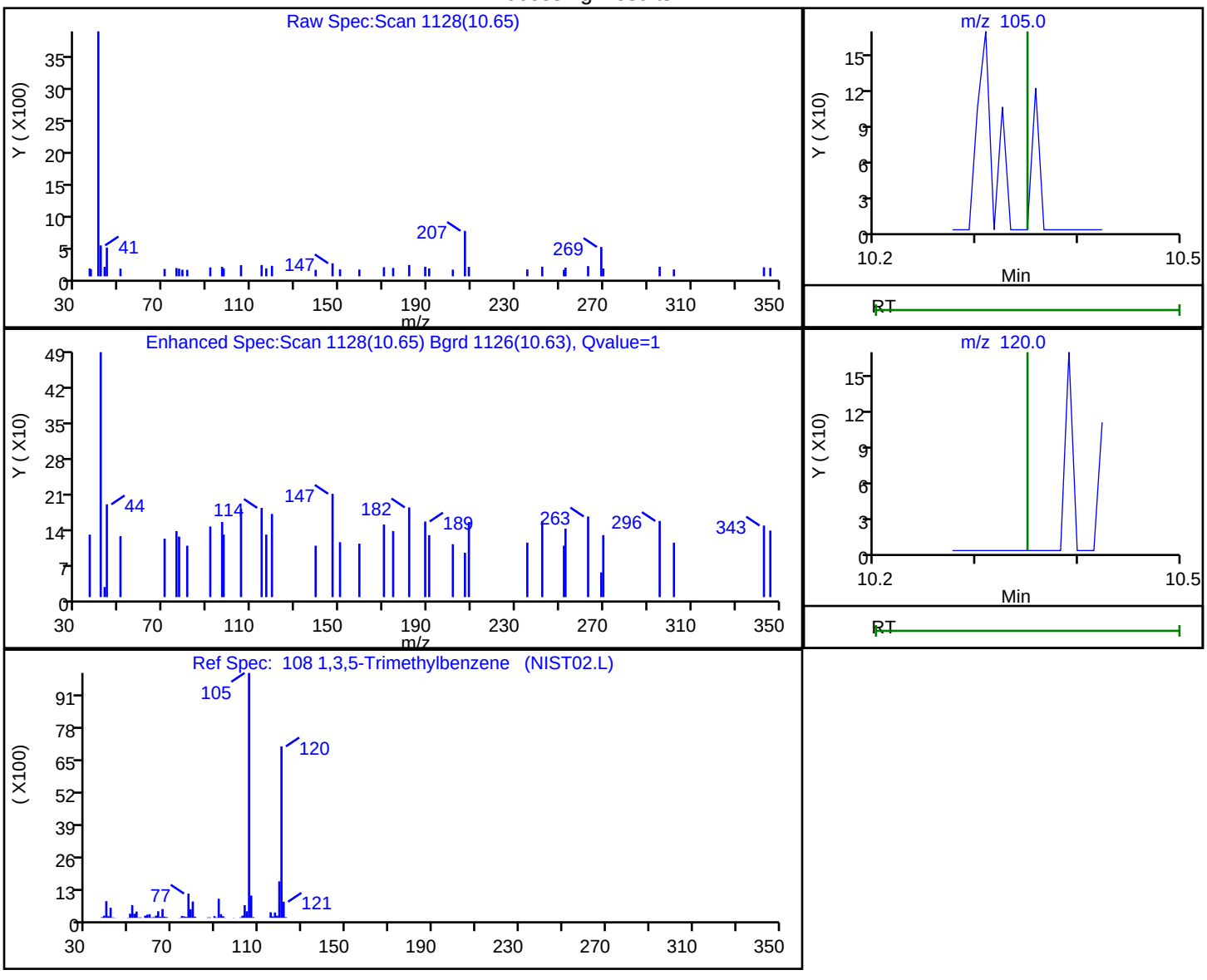
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

108 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.65	105.00	139	0.010024
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

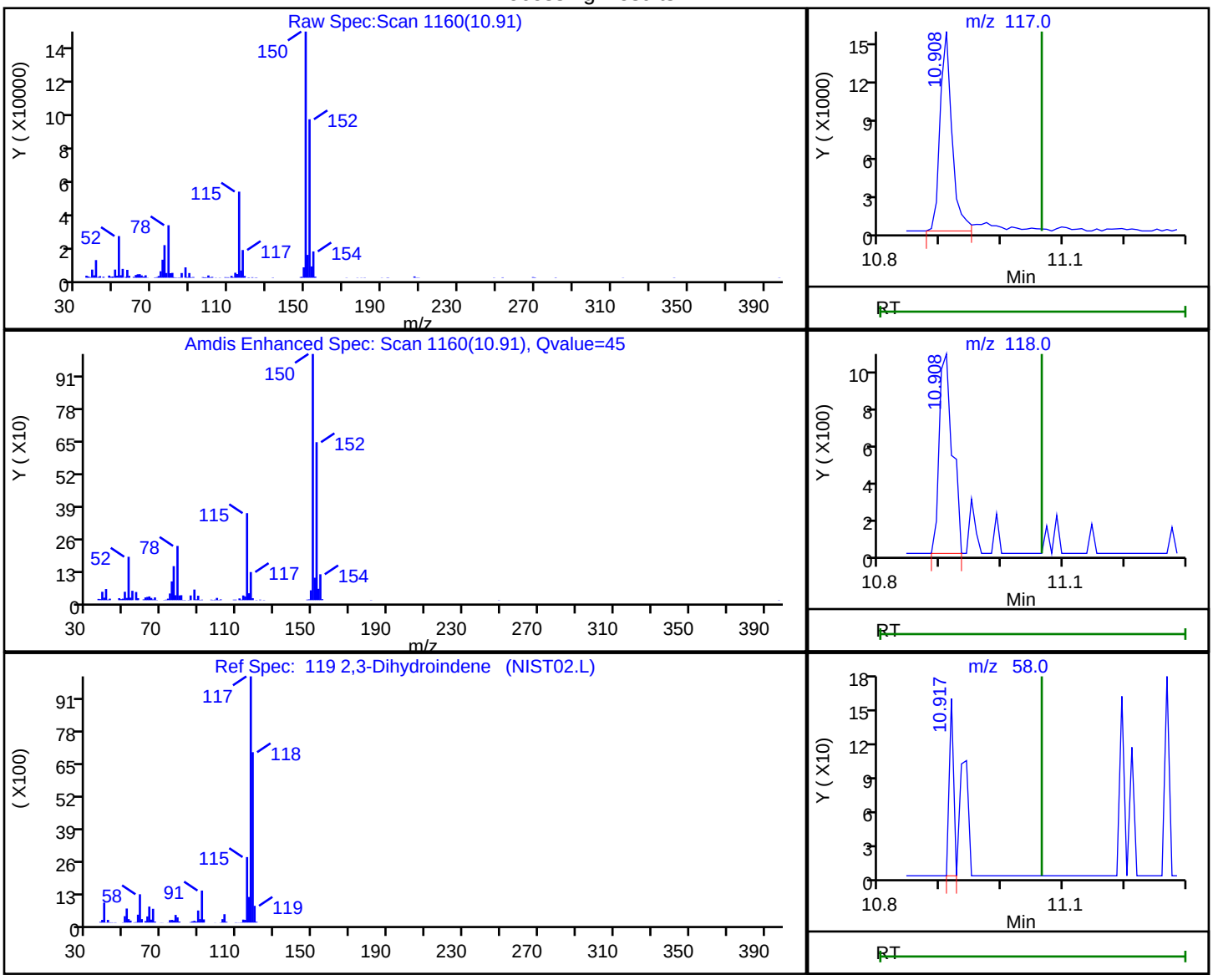
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

119 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.91	117.00	21528	1.428457
10.91	118.00	1542	
10.92	58.00	79	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

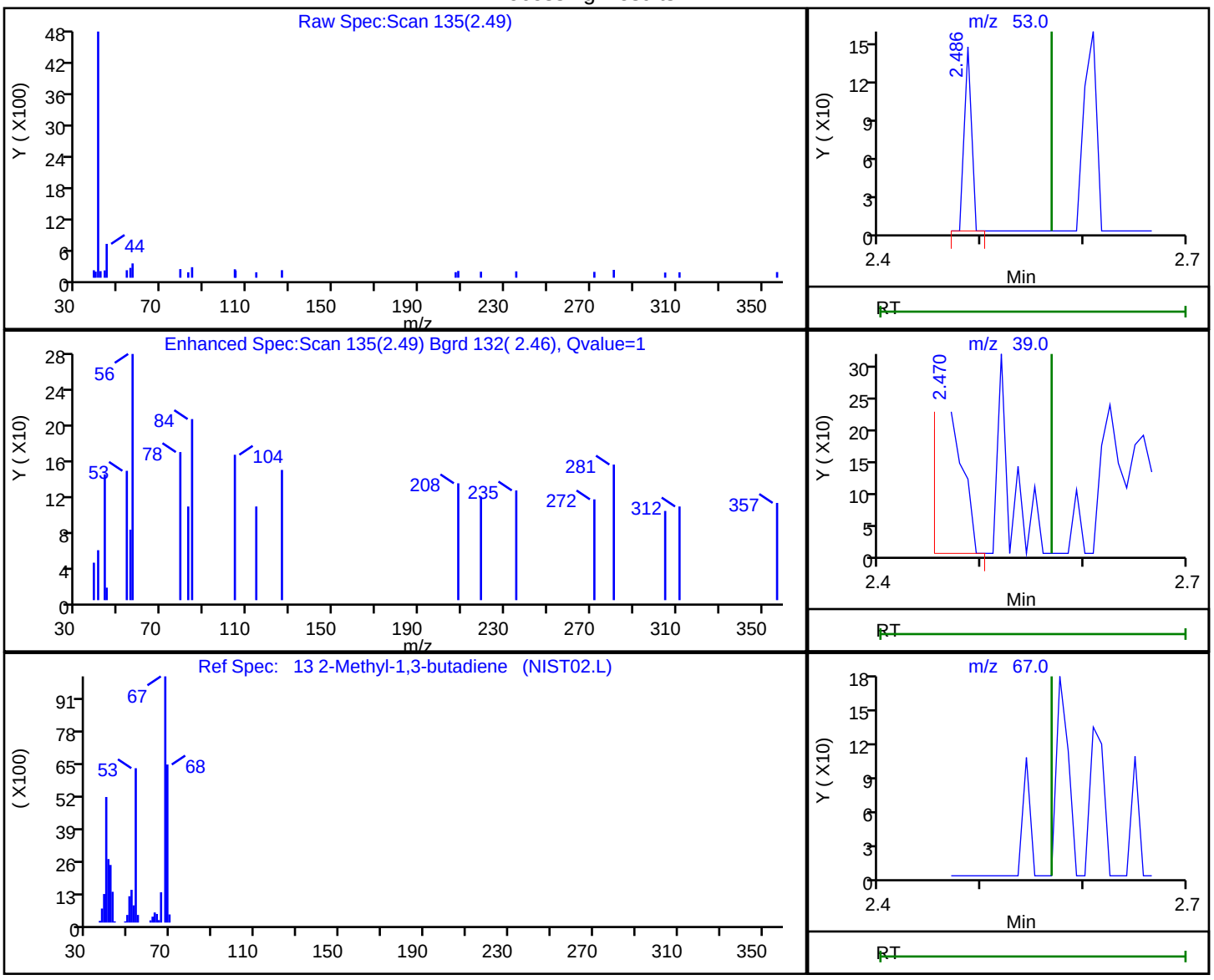
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
2.49	53.00	71	0.020605
2.47	39.00	338	
2.57	67.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

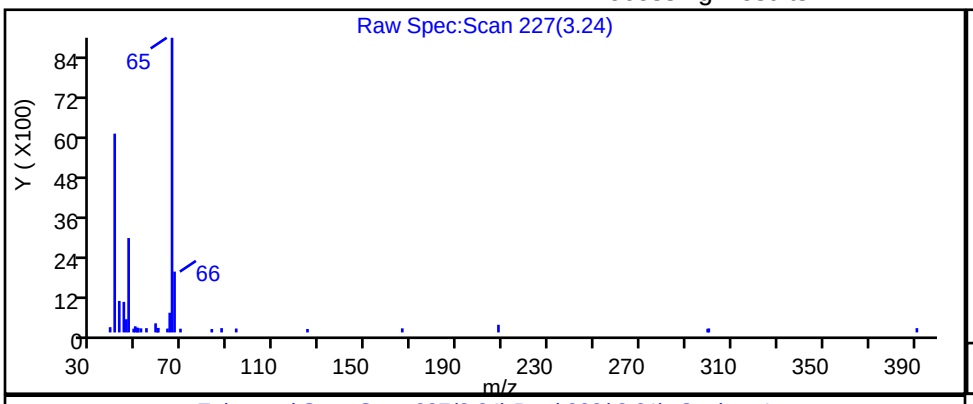
User Disabled Compound Report

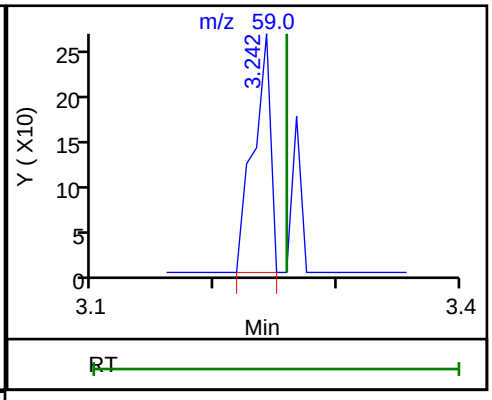
TestAmerica Edison

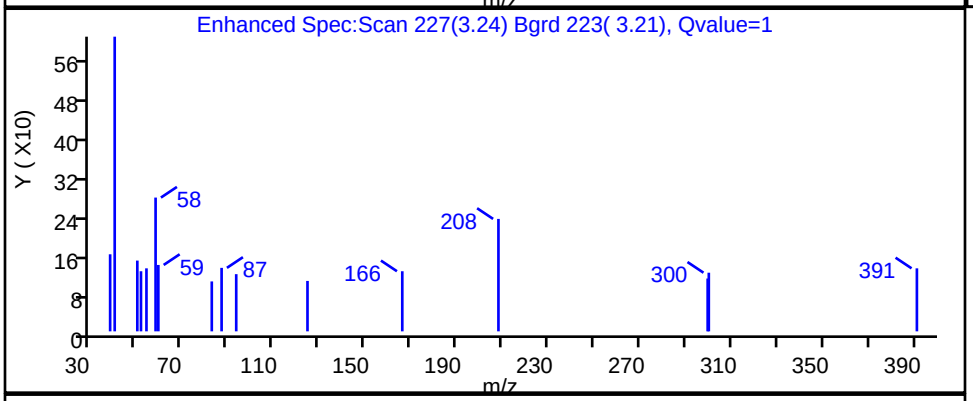
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

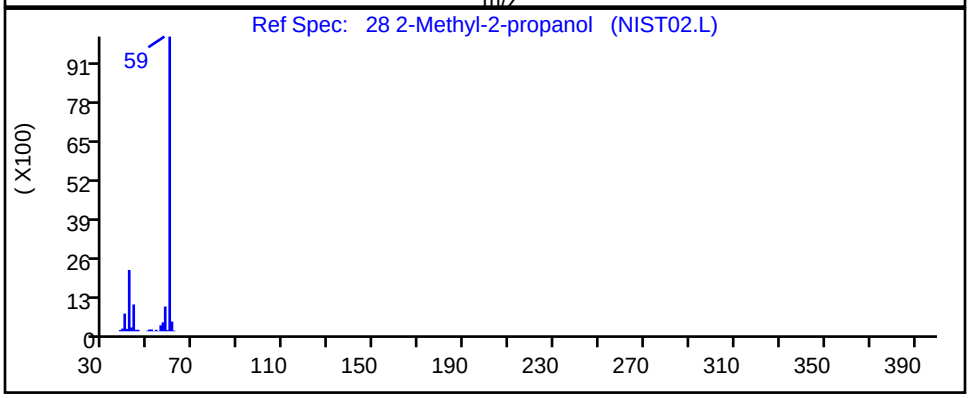
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
3.24	59.00	259	1.228827

Reviewer: delpolitov, 08-Jul-2018 17:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

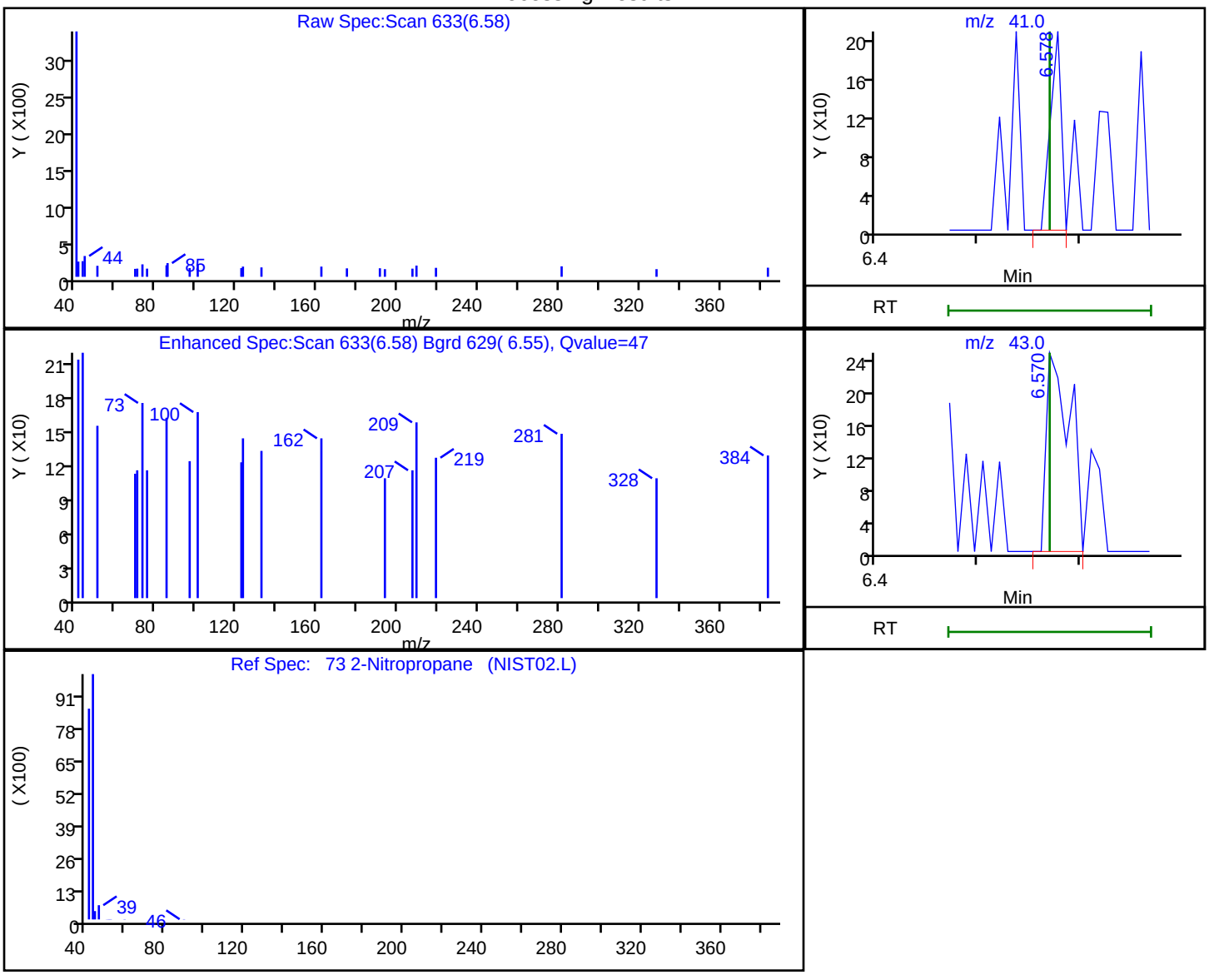
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

73 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
6.58	41.00	155	0.212127
6.57	43.00	394	

Reviewer: delpolitov, 08-Jul-2018 17:41:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

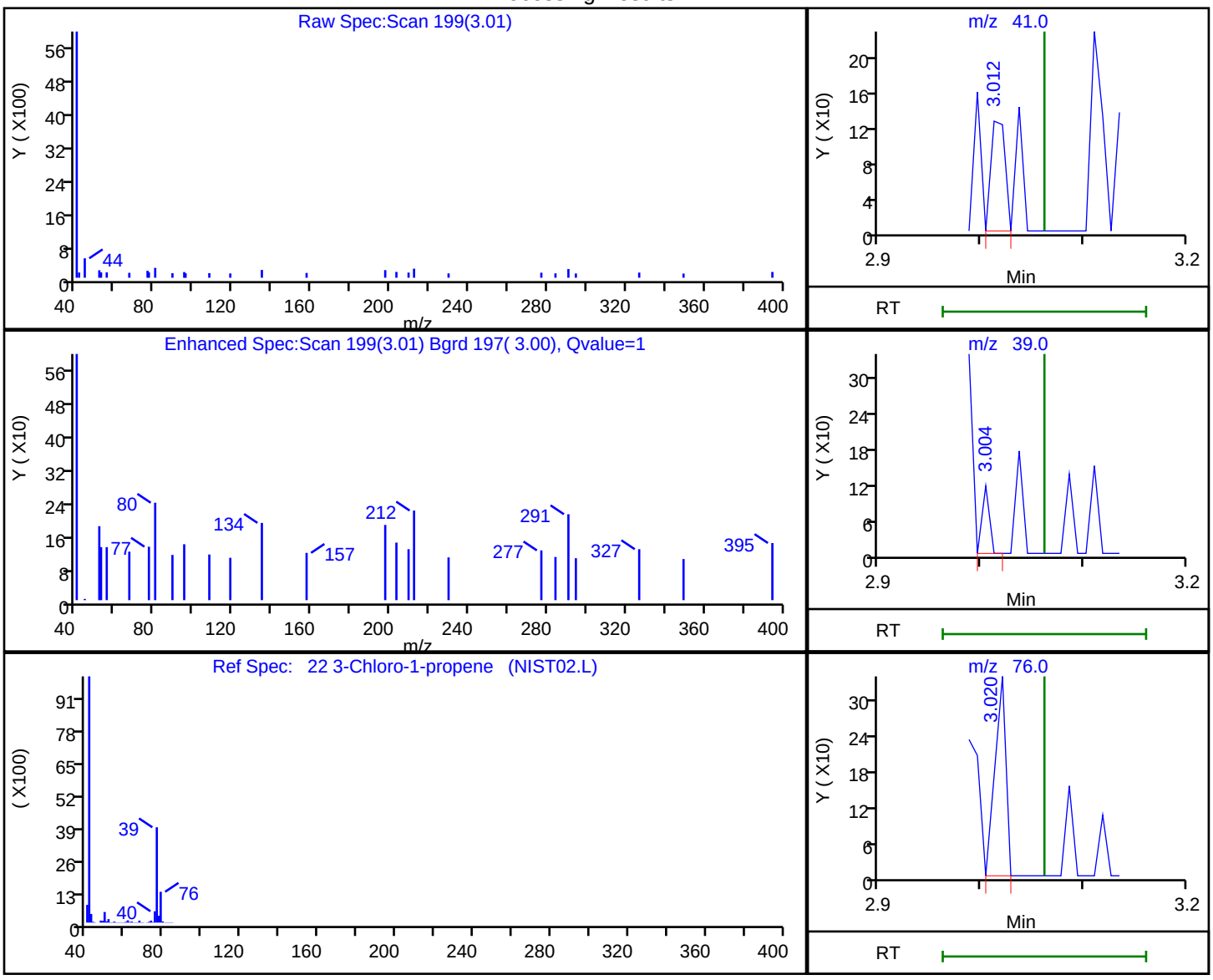
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.01	41.00	121	0.016574
3.00	39.00	56	
3.02	76.00	248	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

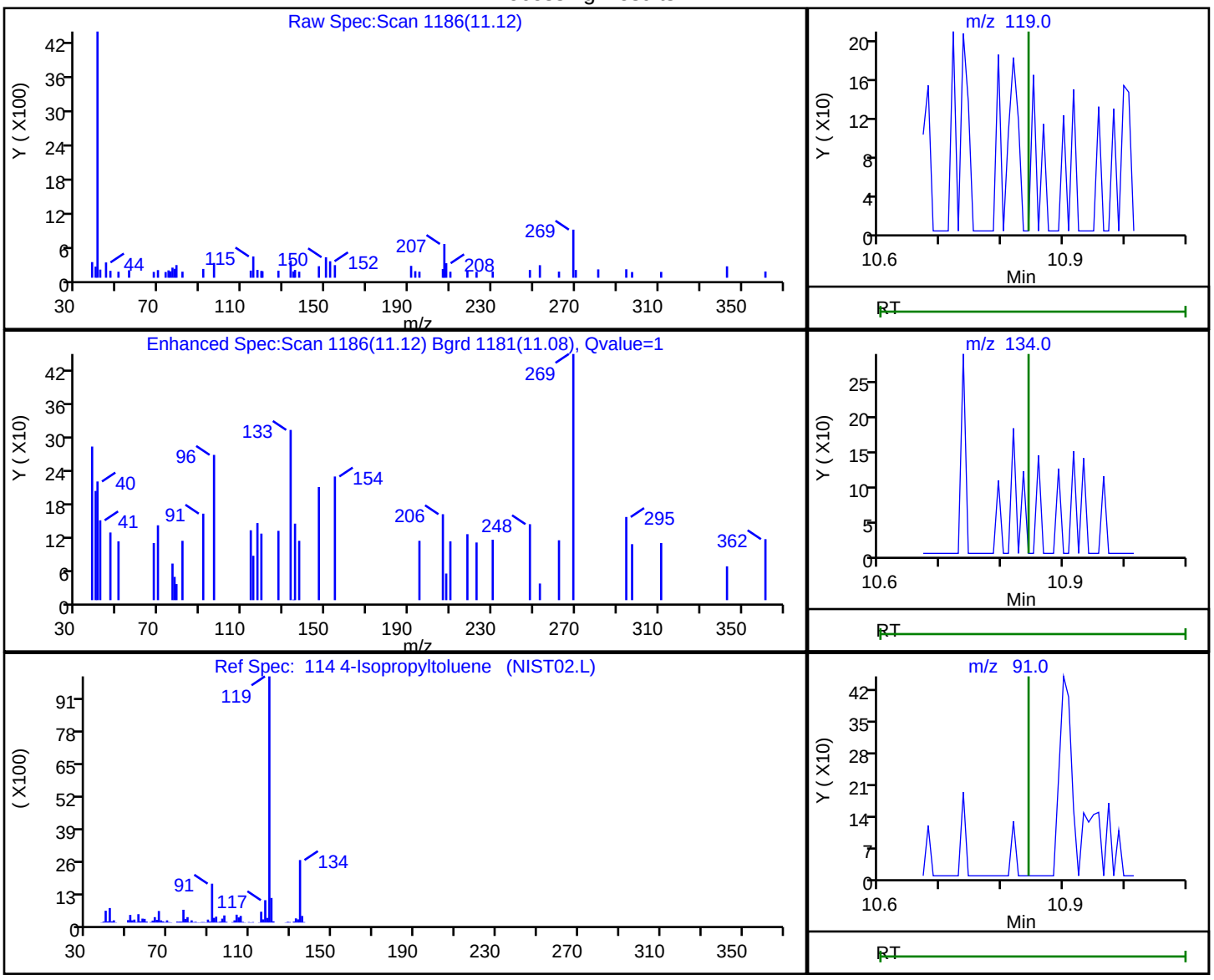
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.035044
11.12	134.00	55	
11.11	91.00	172	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

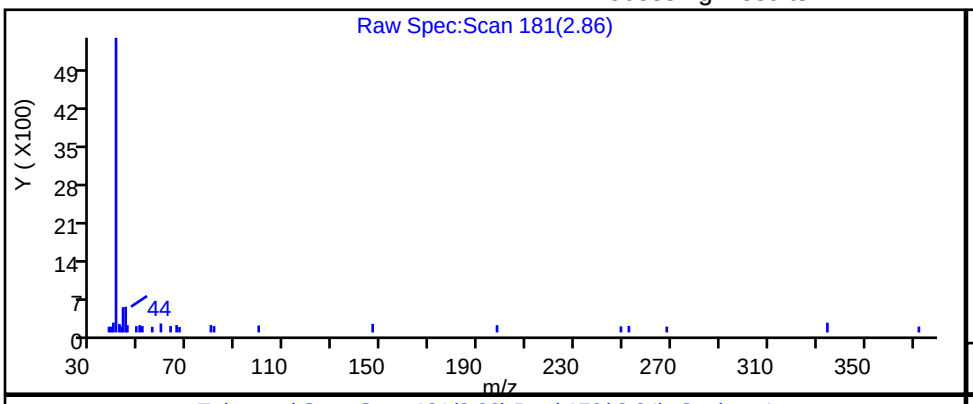
User Disabled Compound Report

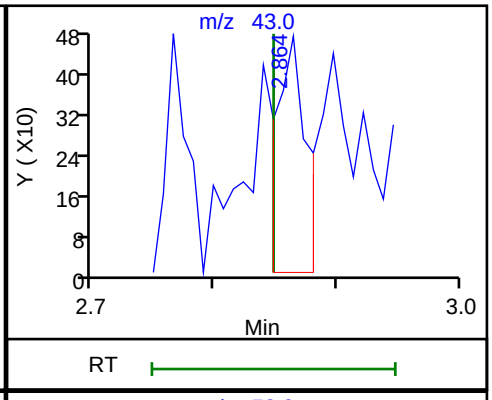
TestAmerica Edison

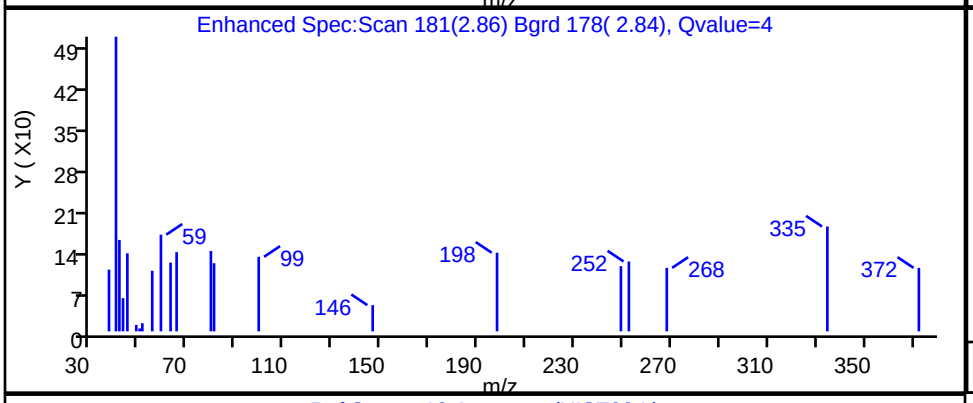
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

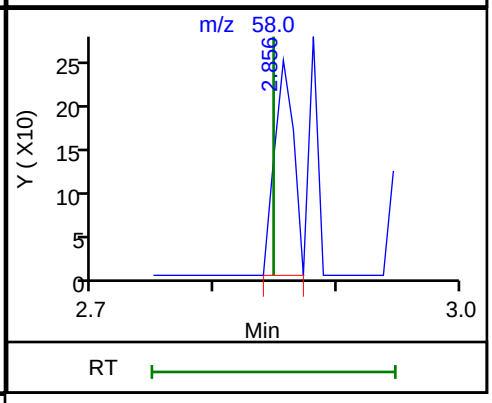
18 Acetone, CAS: 67-64-1

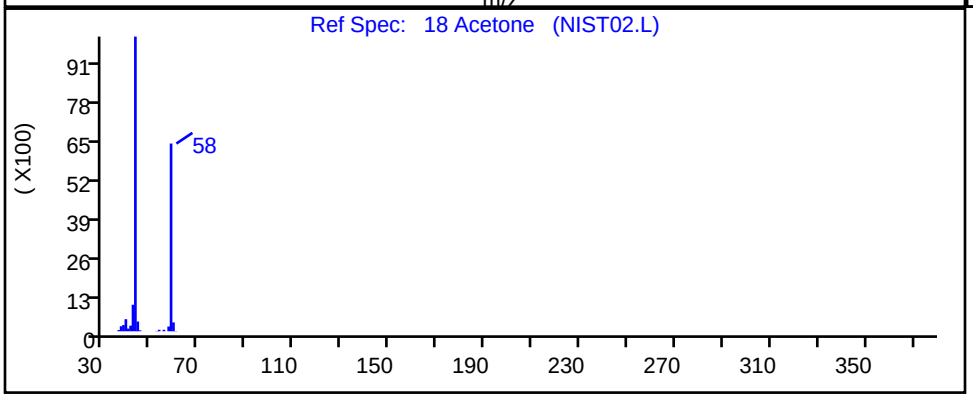
Processing Results











RT	Mass	Response	Amount
2.86	43.00	804	1.057880
2.86	58.00	267	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

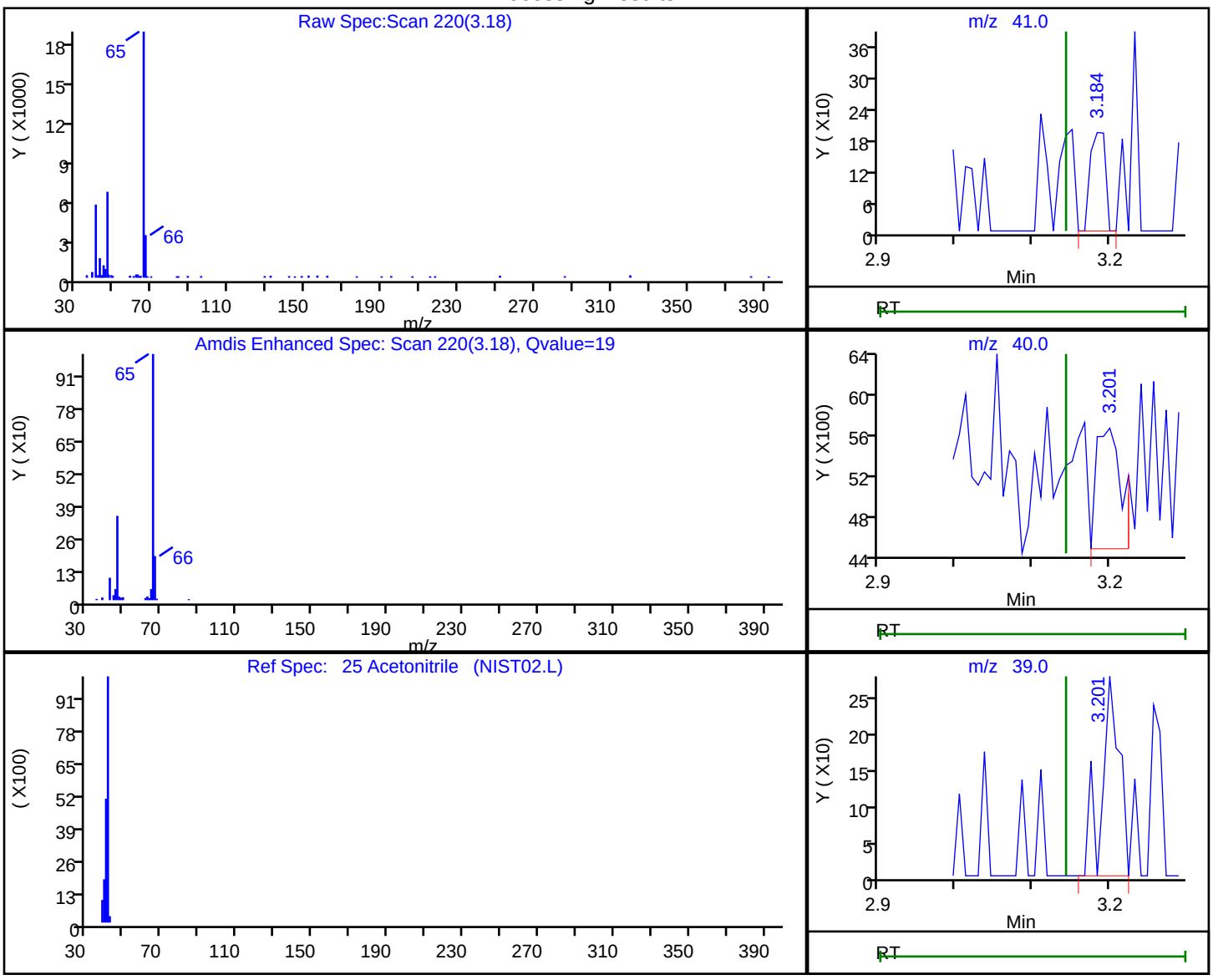
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.18	41.00	264	0.389556
3.20	40.00	2550	
3.20	39.00	450	
3.18	38.00	738	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

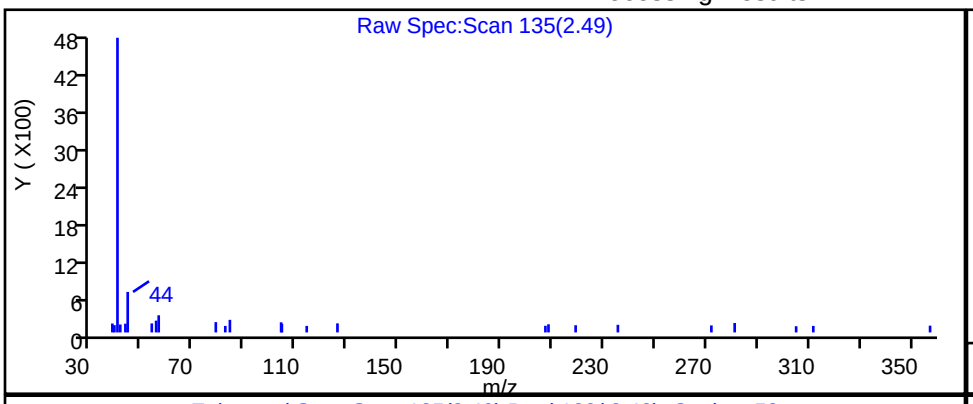
User Disabled Compound Report

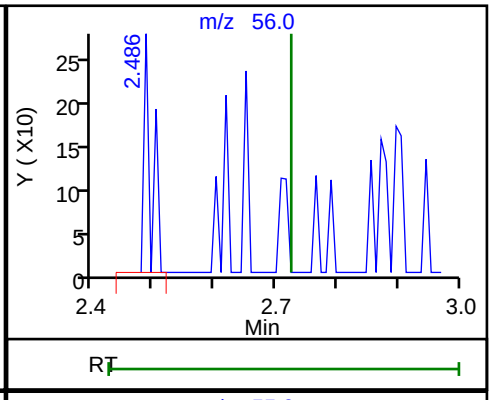
TestAmerica Edison

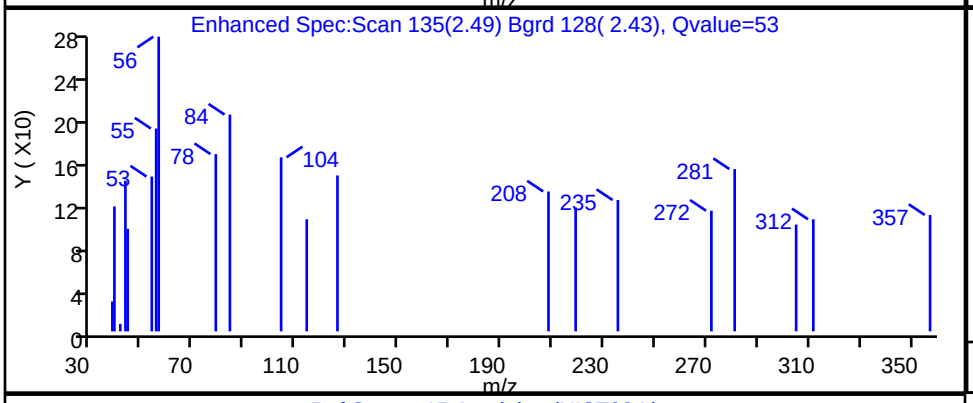
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

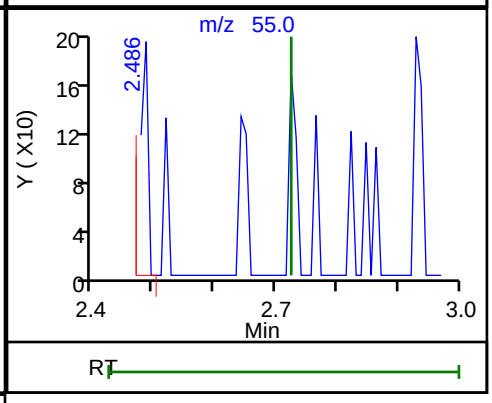
15 Acrolein, CAS: 107-02-8

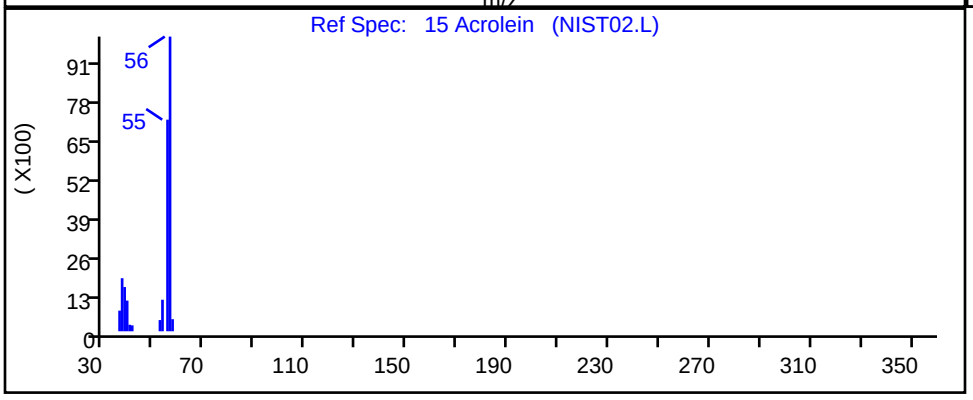
Processing Results











RT	Mass	Response	Amount
2.49	56.00	308	1.449360
2.49	55.00	203	

Reviewer: delpolitov, 08-Jul-2018 17:28:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

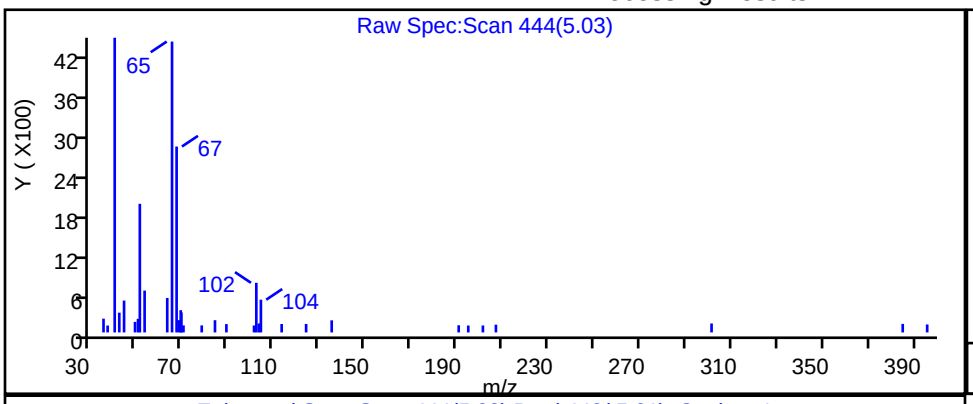
User Disabled Compound Report

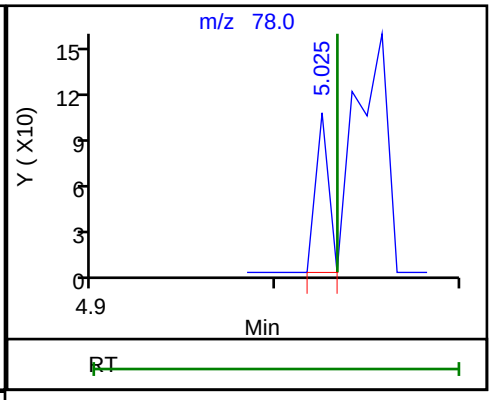
TestAmerica Edison

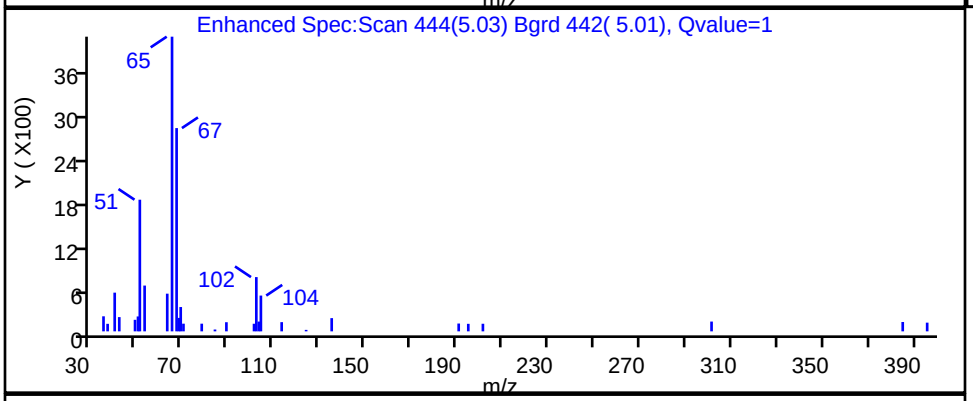
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

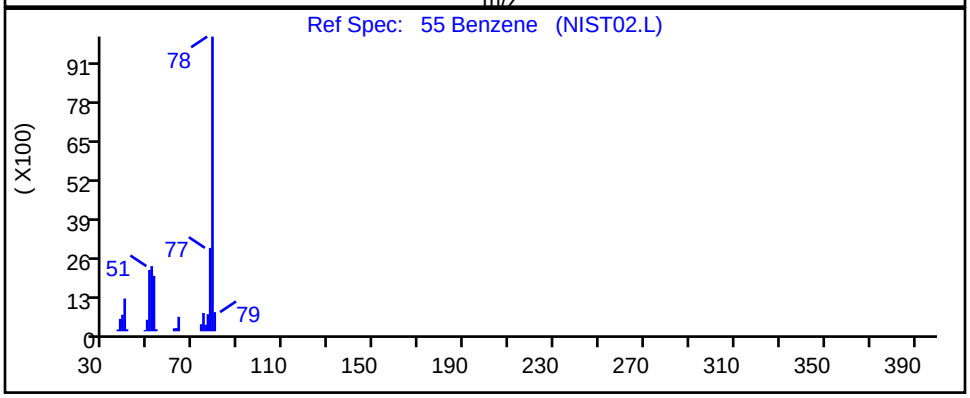
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
5.03	78.00	52	0.003313

Reviewer: delpolitov, 08-Jul-2018 17:28:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

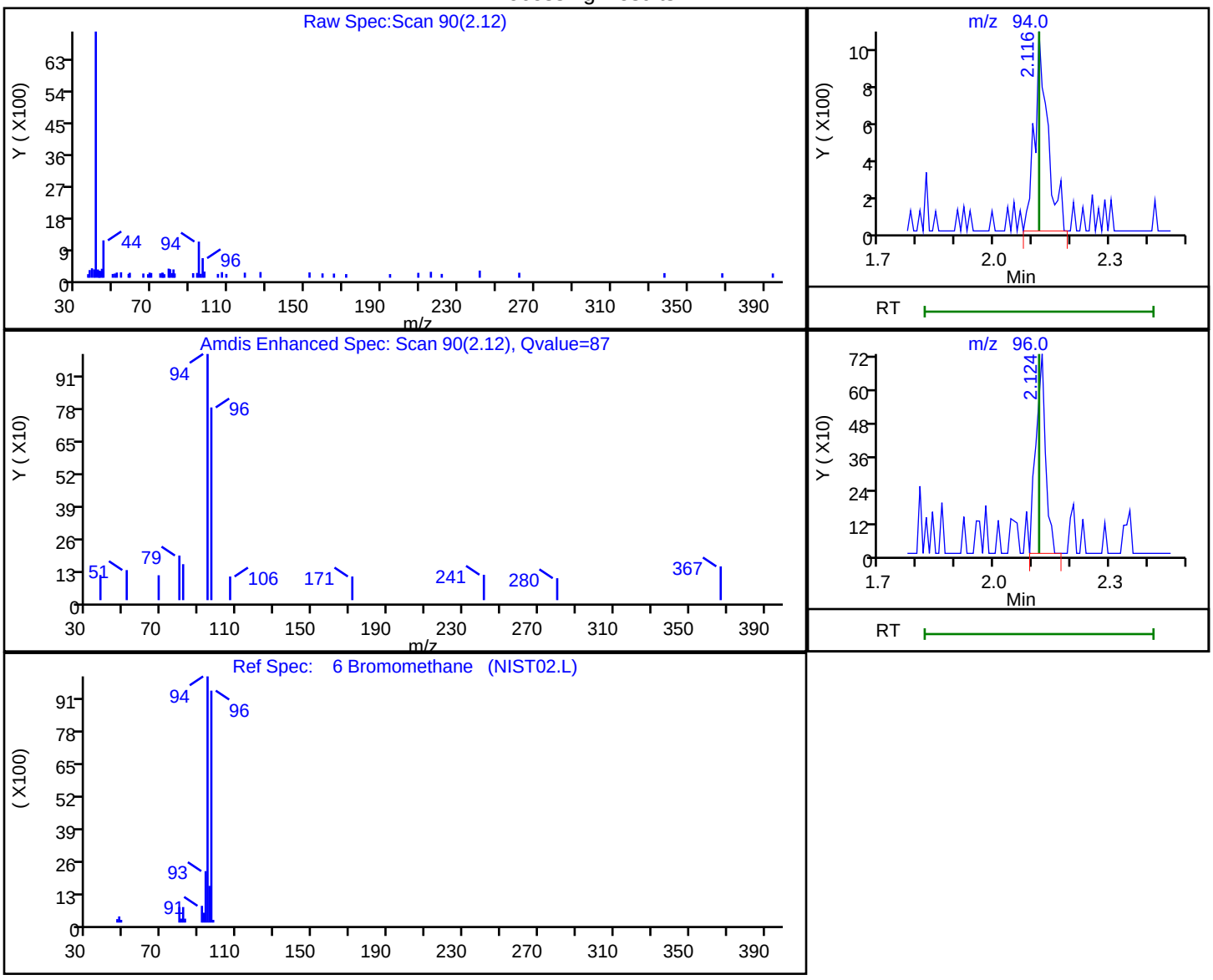
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.12	94.00	2459	0.511360
2.12	96.00	1264	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

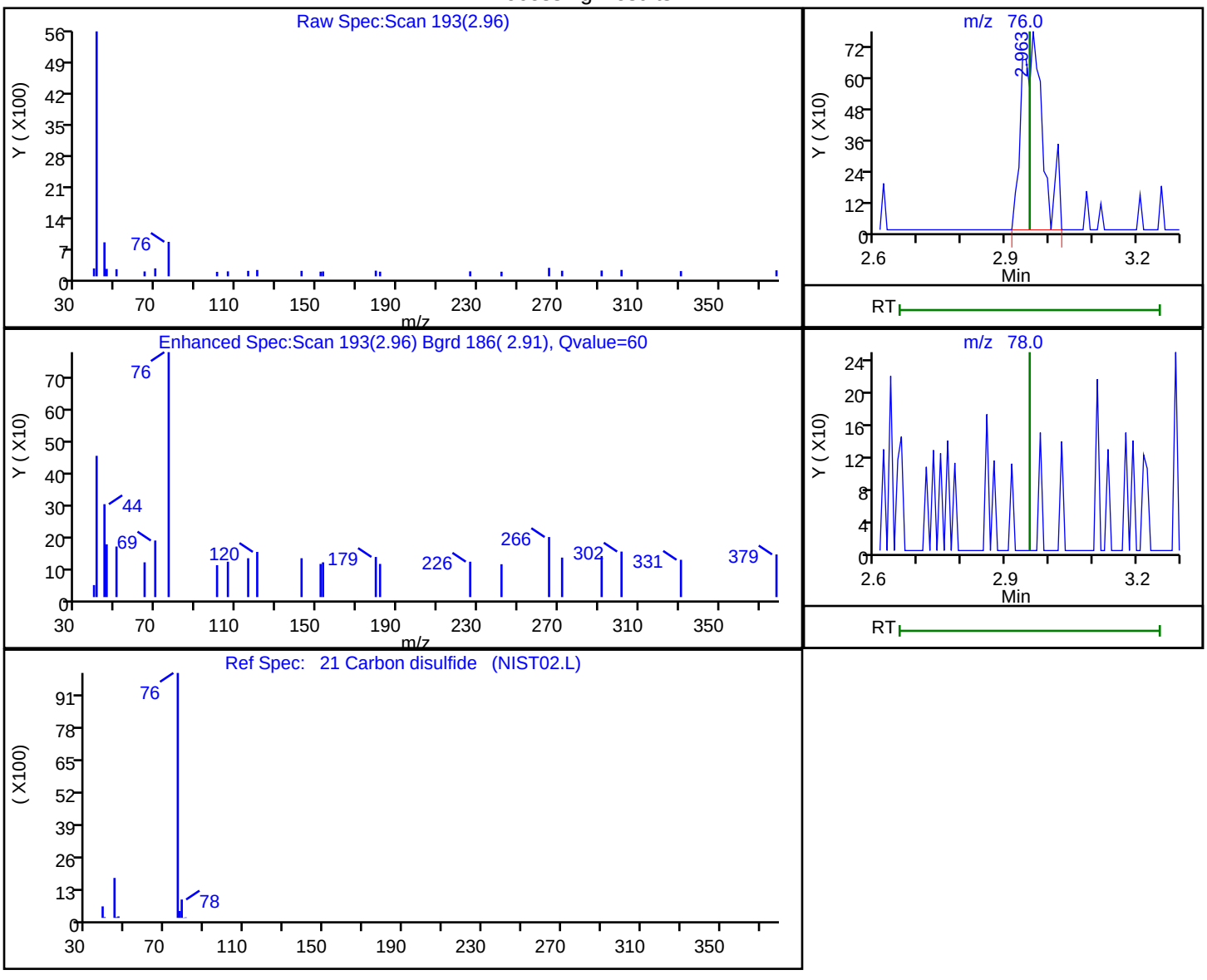
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.96	76.00	2561	0.167750
2.95	78.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

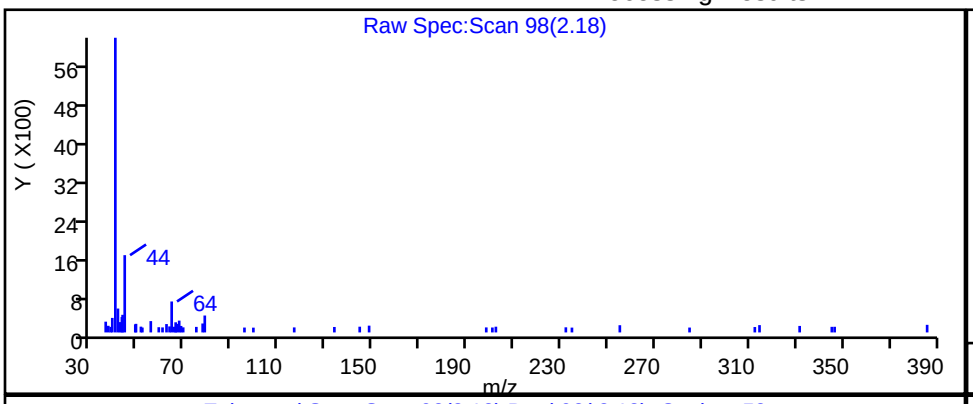
User Disabled Compound Report

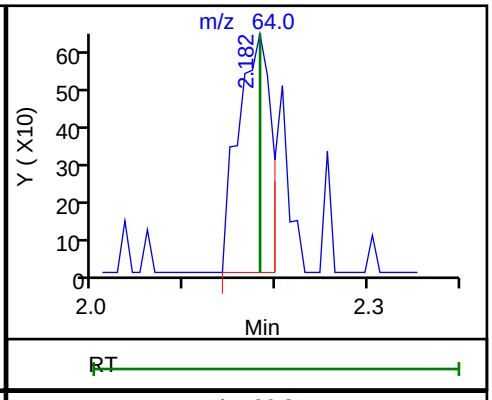
TestAmerica Edison

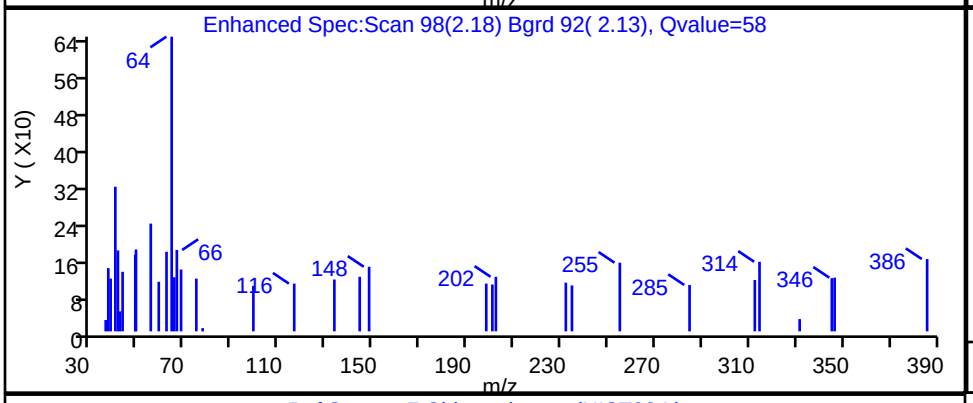
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

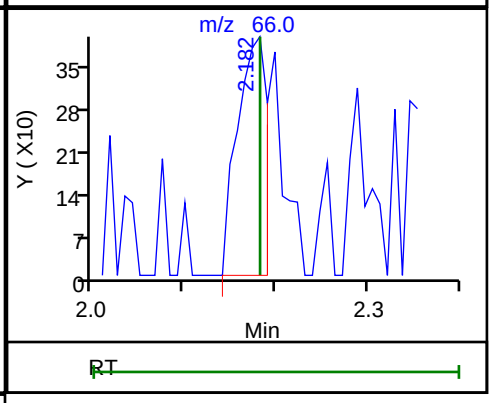
7 Chloroethane, CAS: 75-00-3

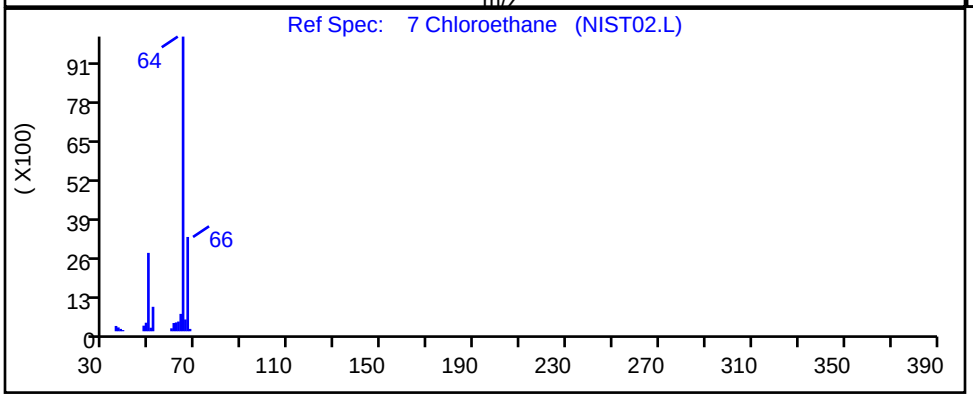
Processing Results











RT	Mass	Response	Amount
2.18	64.00	1609	0.352180
2.18	66.00	880	

Reviewer: delpolitov, 08-Jul-2018 17:28:01

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

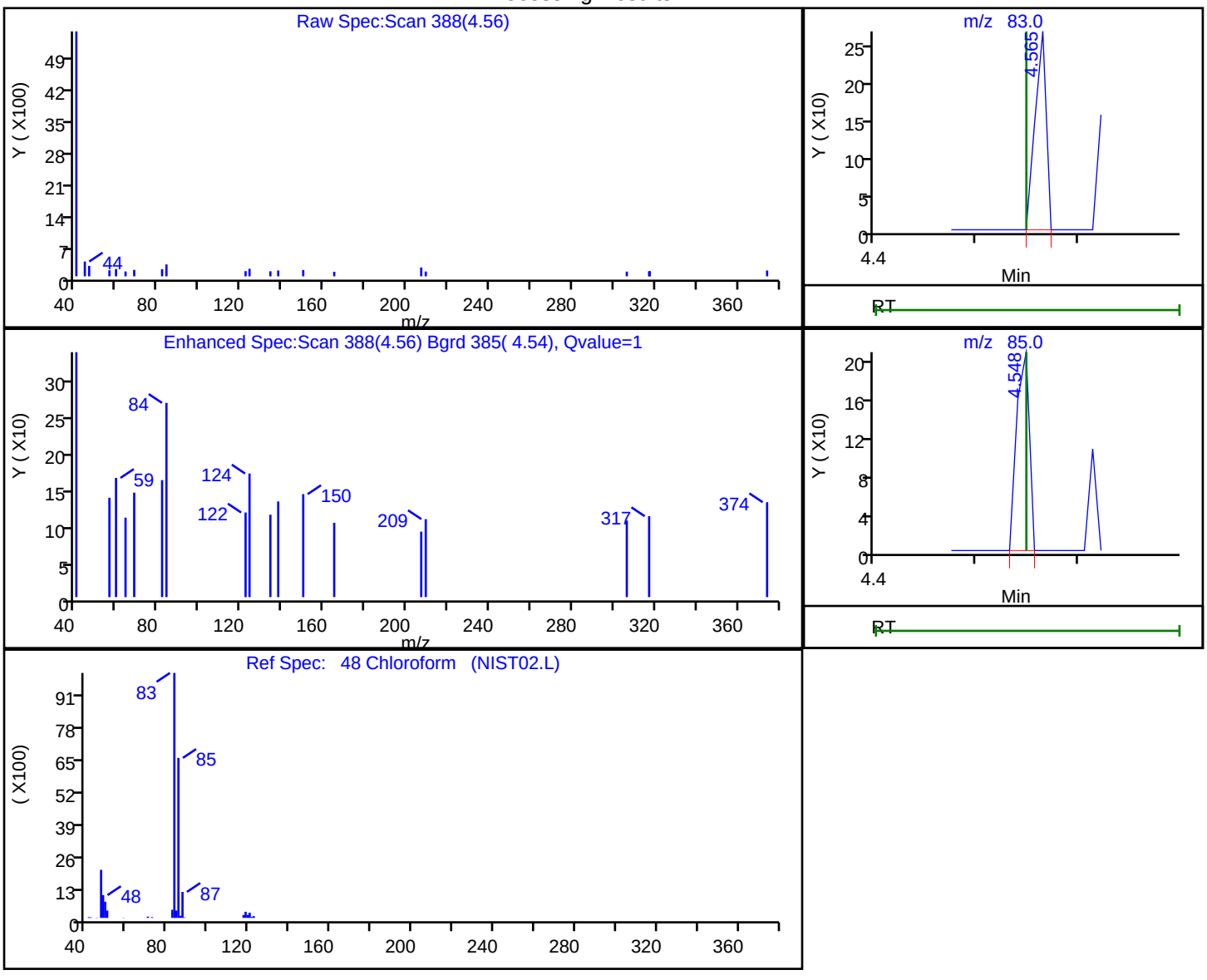
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

48 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
4.56	83.00	200	0.029537
4.55	85.00	182	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

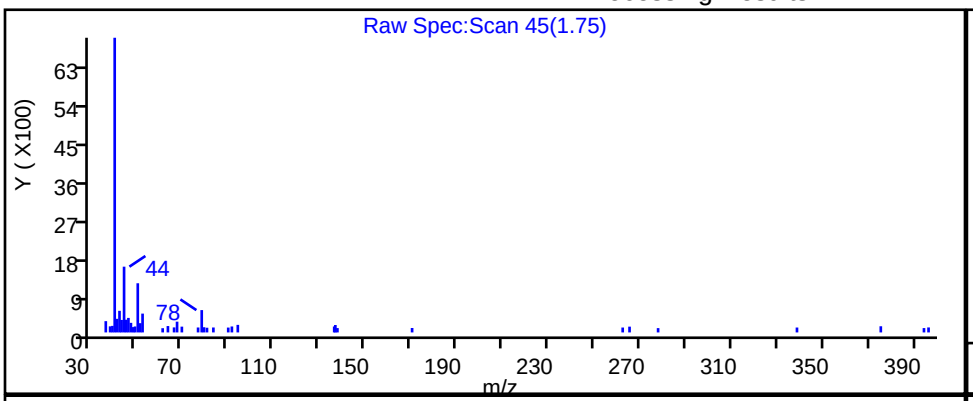
User Disabled Compound Report

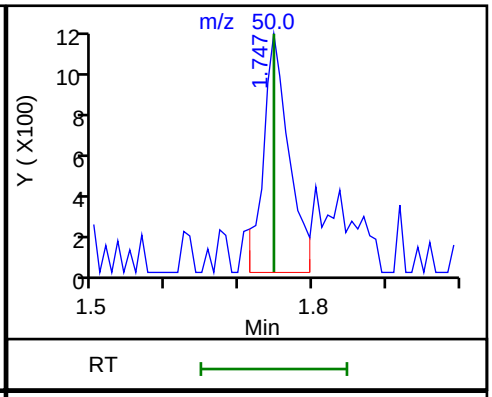
TestAmerica Edison

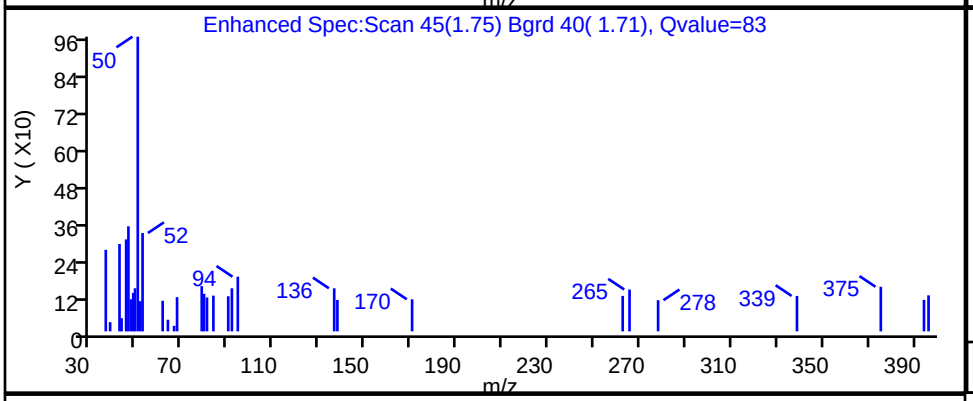
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

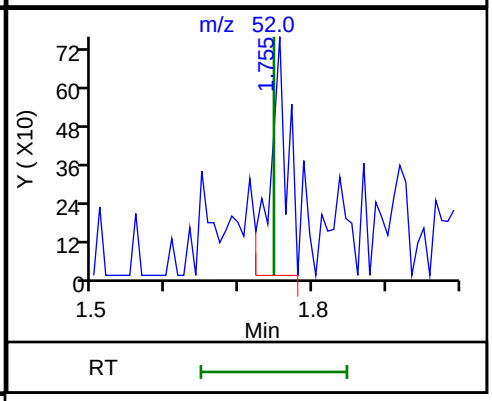
3 Chloromethane, CAS: 74-87-3

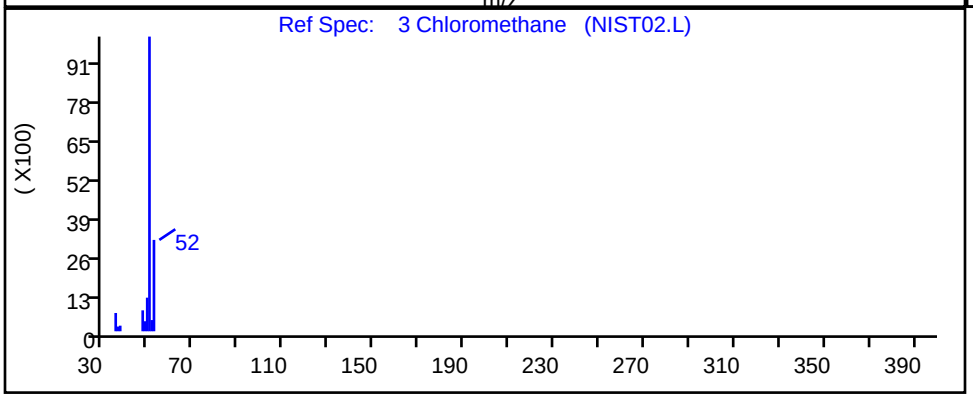
Processing Results











RT	Mass	Response	Amount
1.75	50.00	2848	0.389073
1.75	52.00	1225	

Reviewer: delpolitov, 08-Jul-2018 17:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

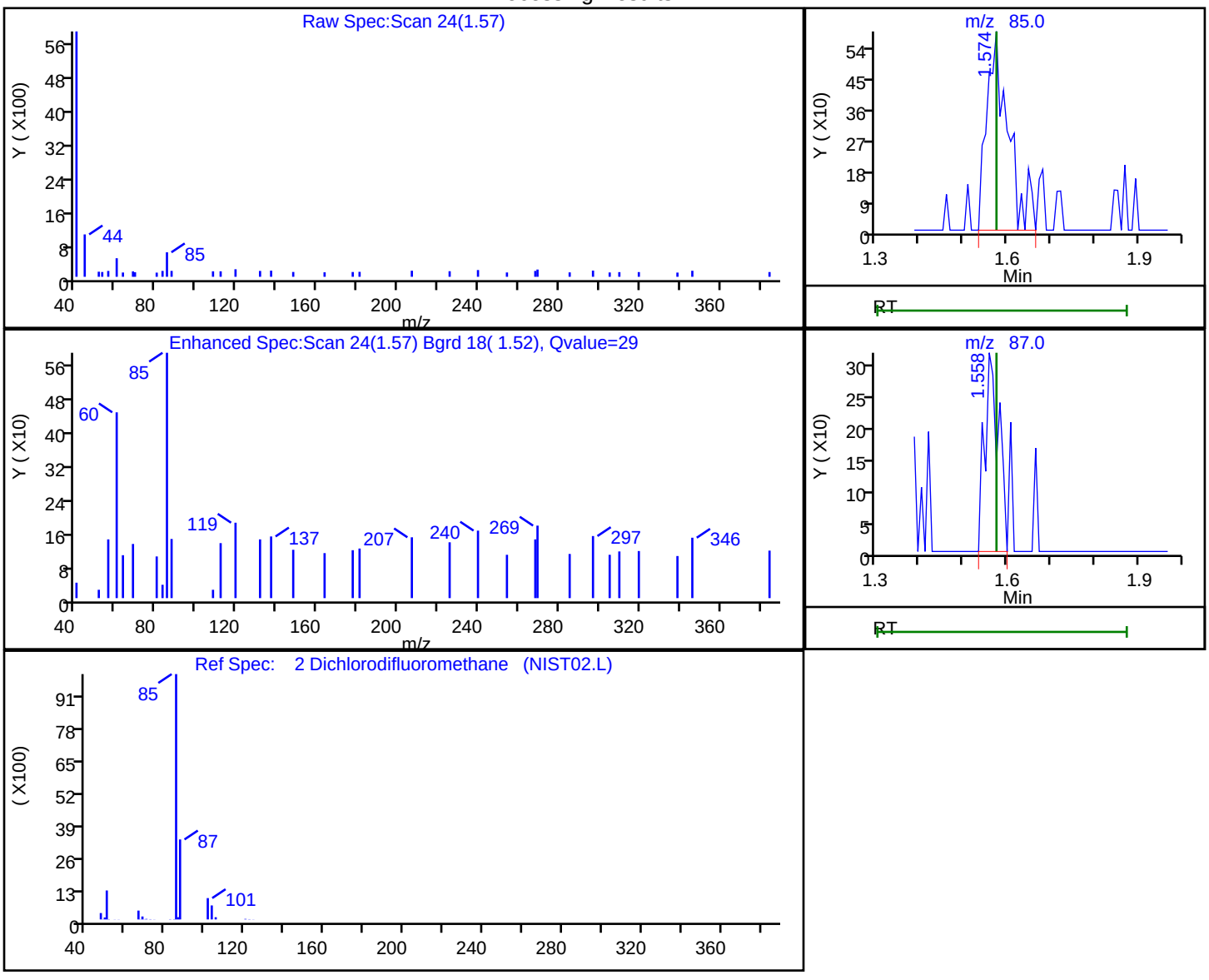
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.57	85.00	2000	0.323927
1.56	87.00	708	

Reviewer: delpolitov, 08-Jul-2018 17:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

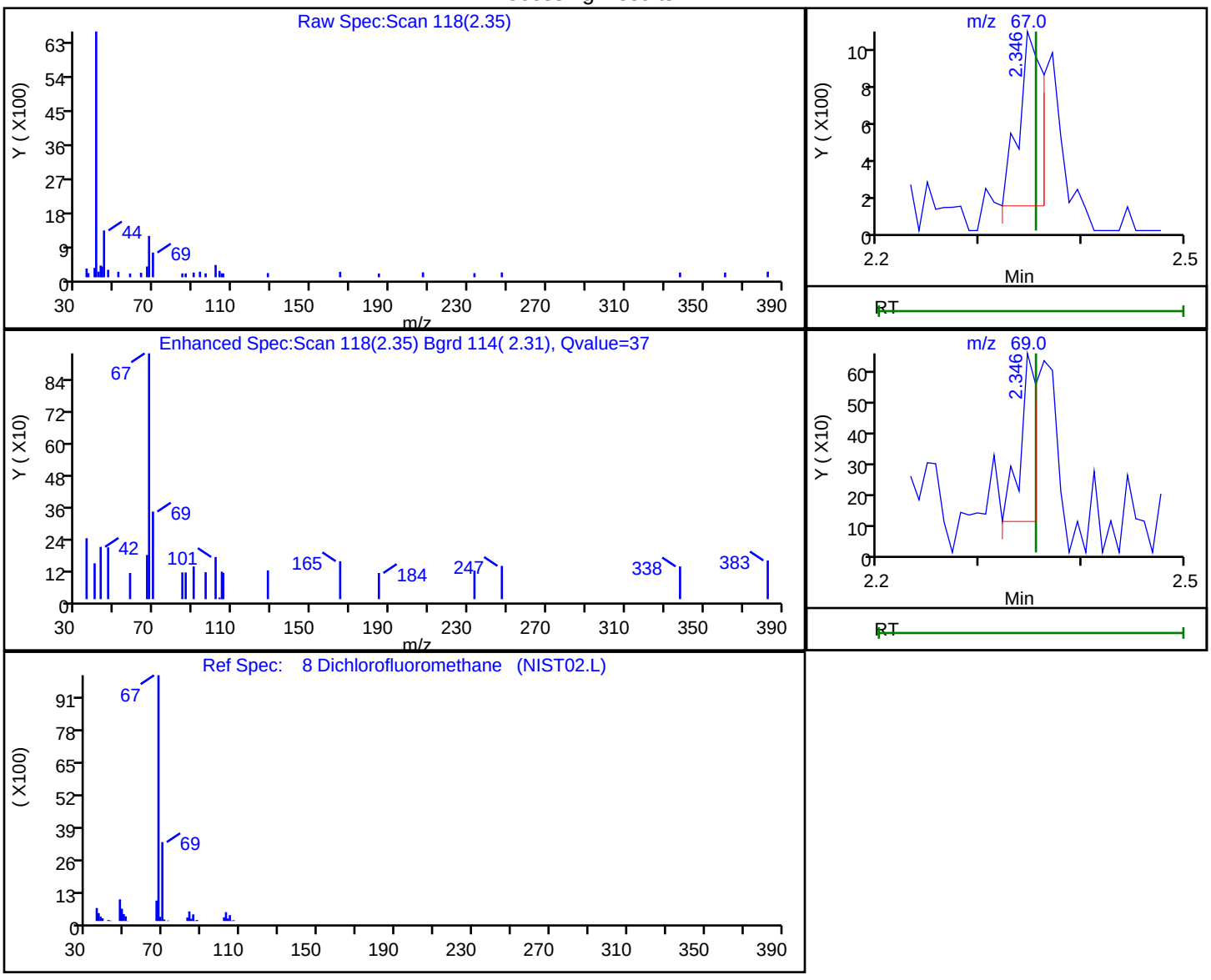
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.35	67.00	1585	0.183216
2.35	69.00	634	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

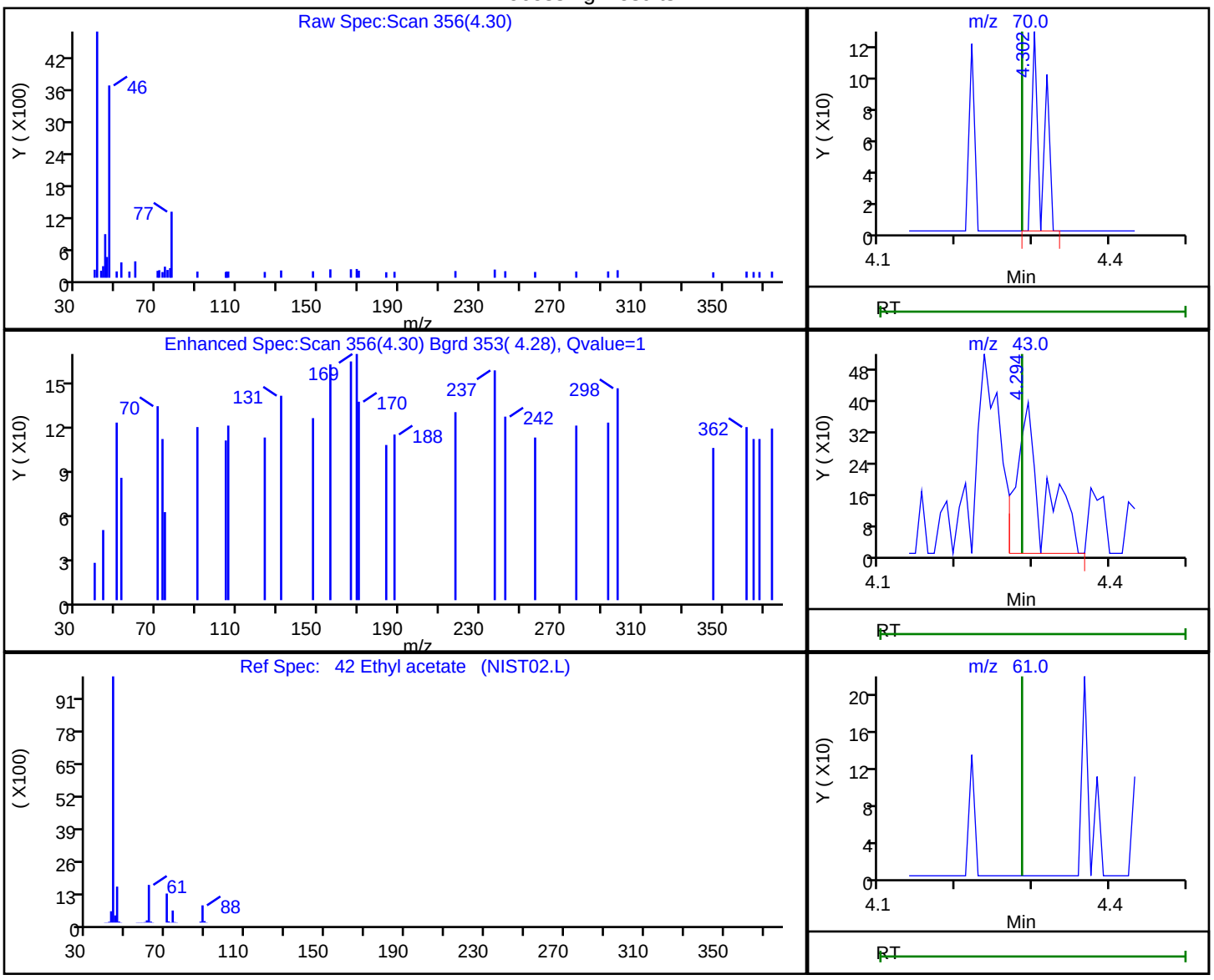
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.30	70.00	114	0.346025
4.29	43.00	966	
4.29	61.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

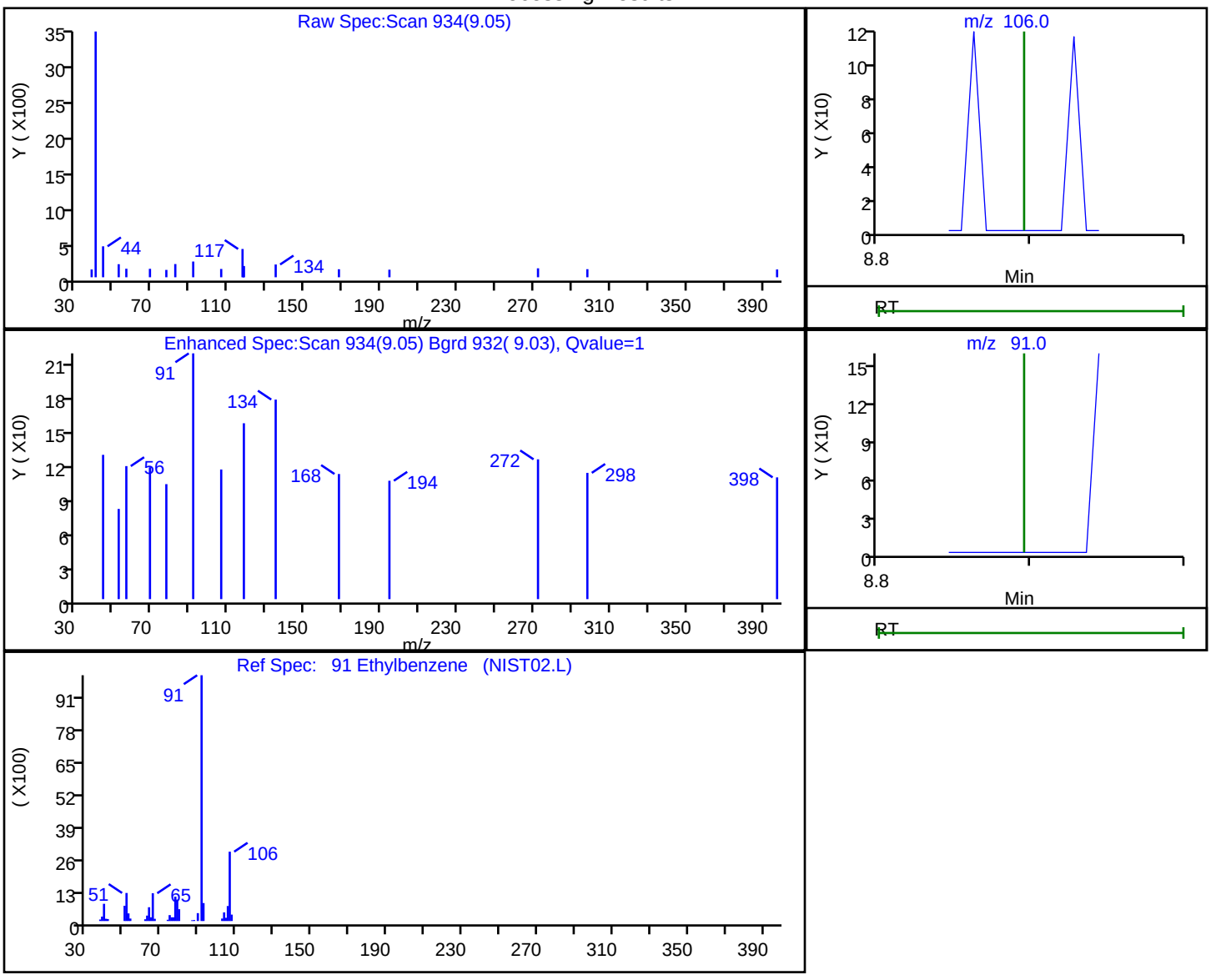
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

91 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.05	106.00	57	0.009880
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

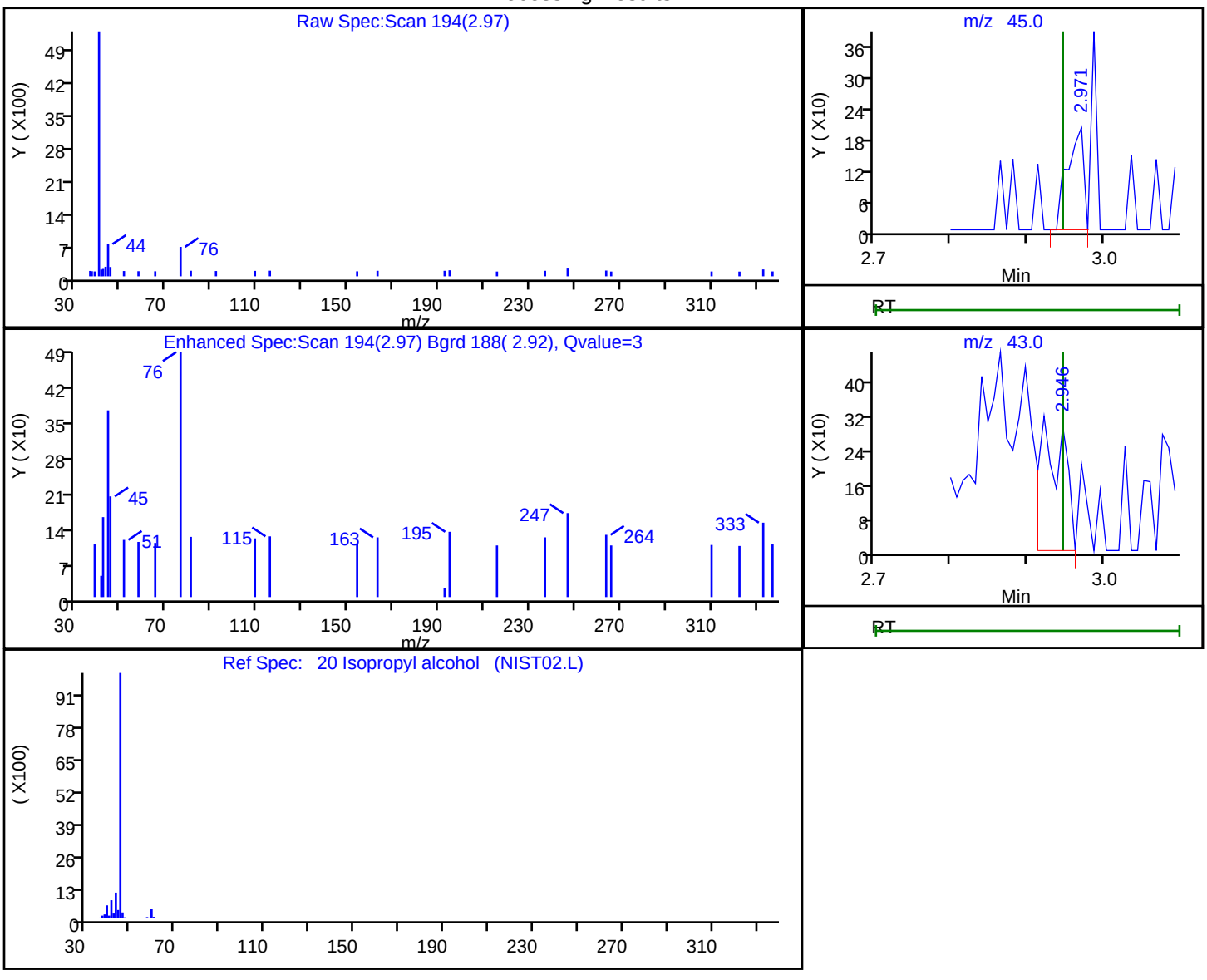
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
2.97	45.00	296	2.726594
2.95	43.00	658	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

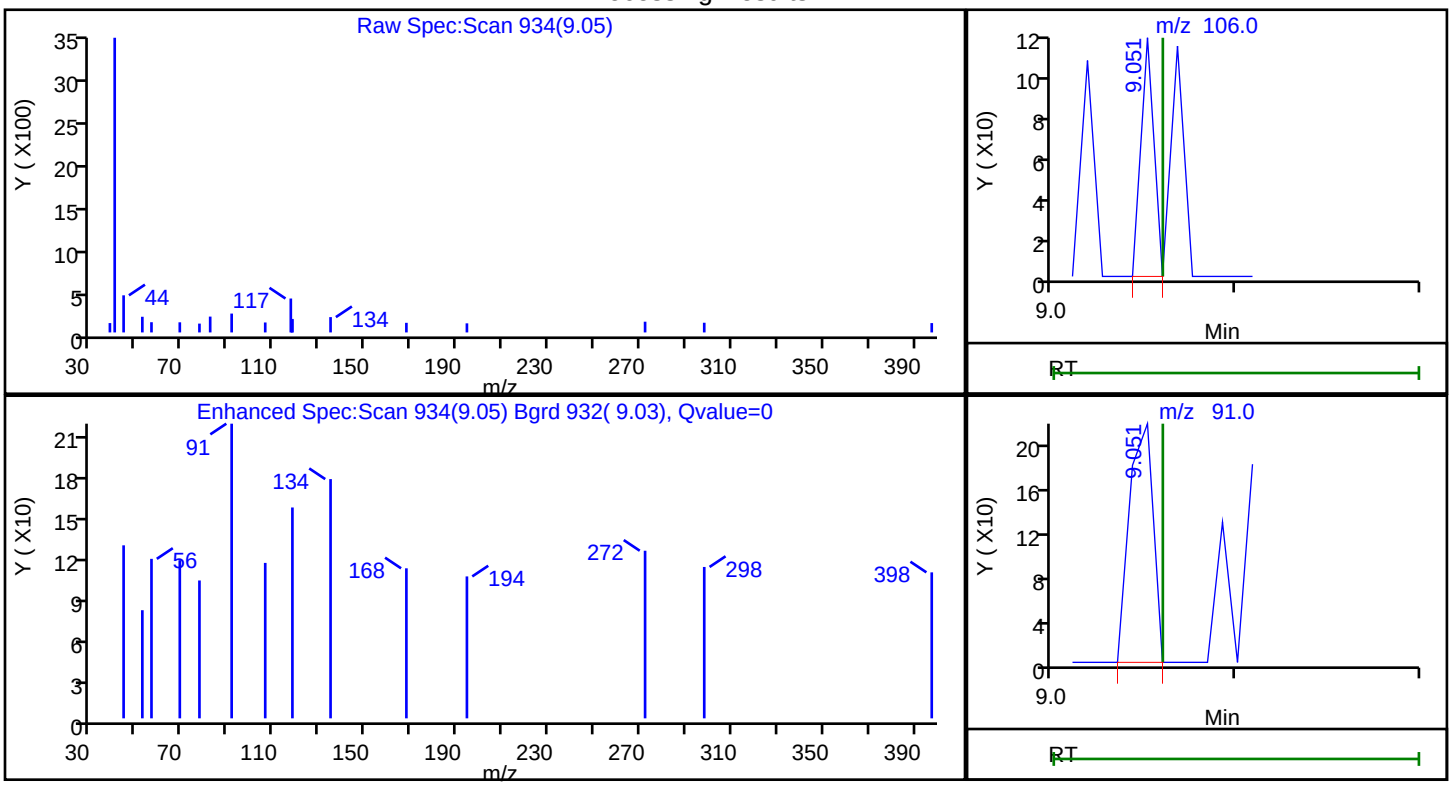
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

93 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
9.05	106.00	57	0.008293
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

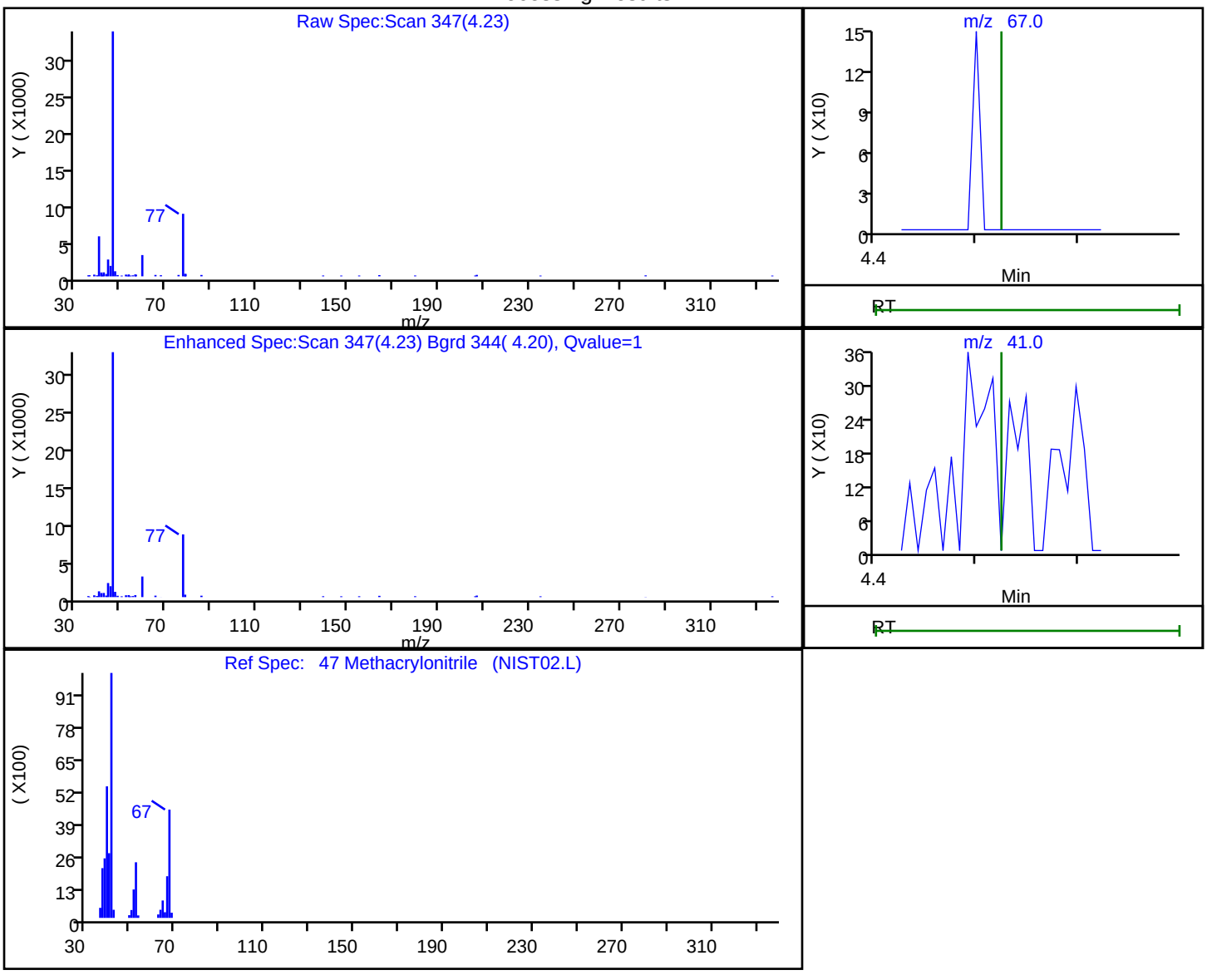
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

47 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
4.23	67.00	74	0.053985
4.23	41.00	1950	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

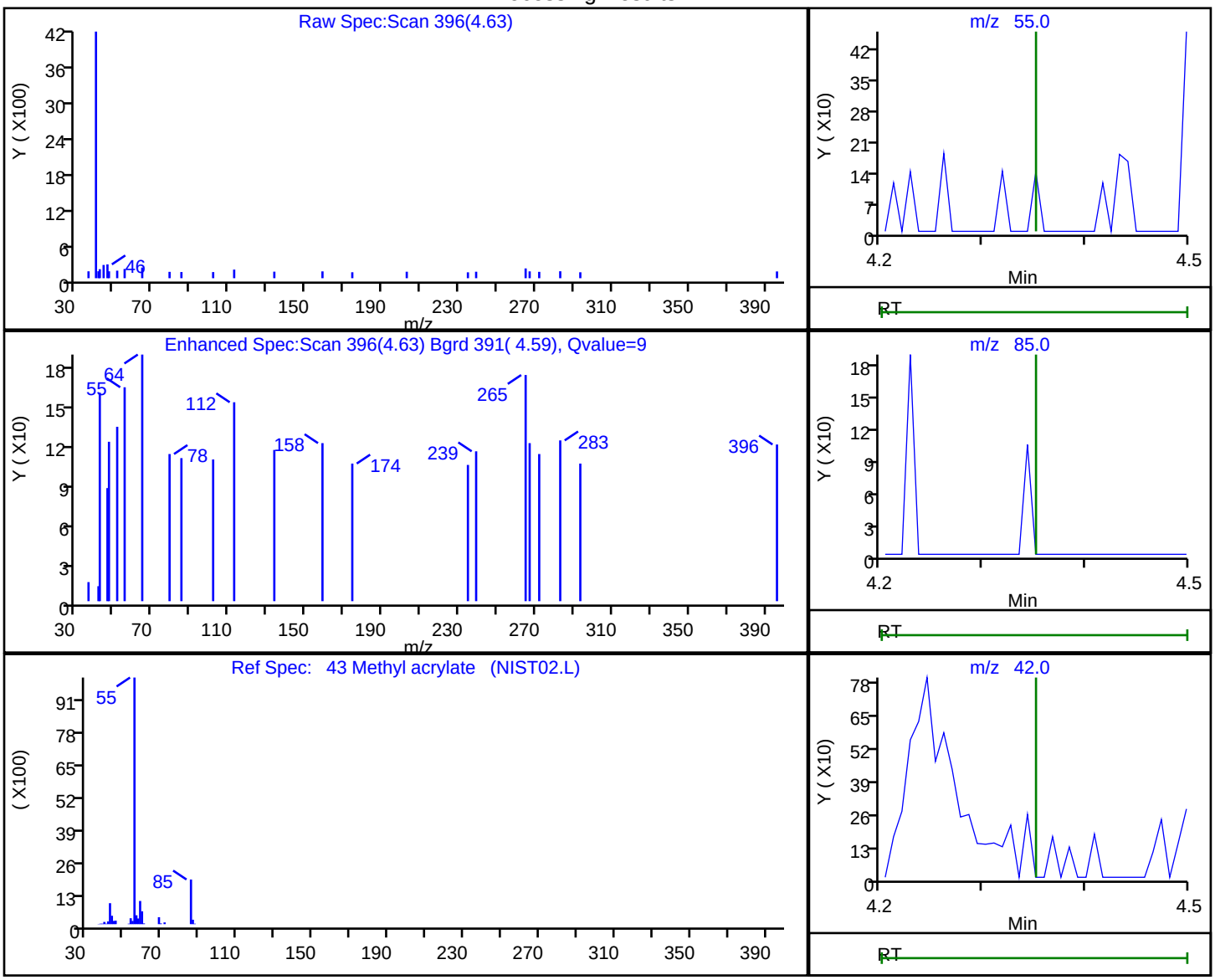
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
4.63	55.00	193	0.079242
4.61	85.00	105	
4.65	42.00	309	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

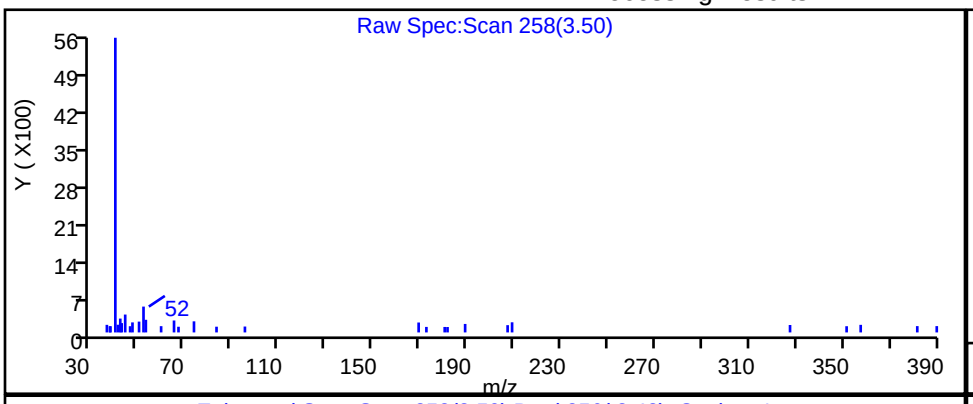
User Disabled Compound Report

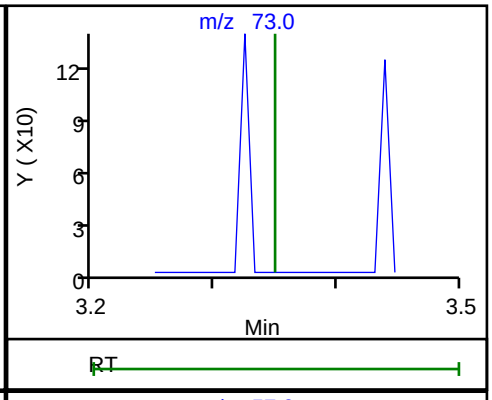
TestAmerica Edison

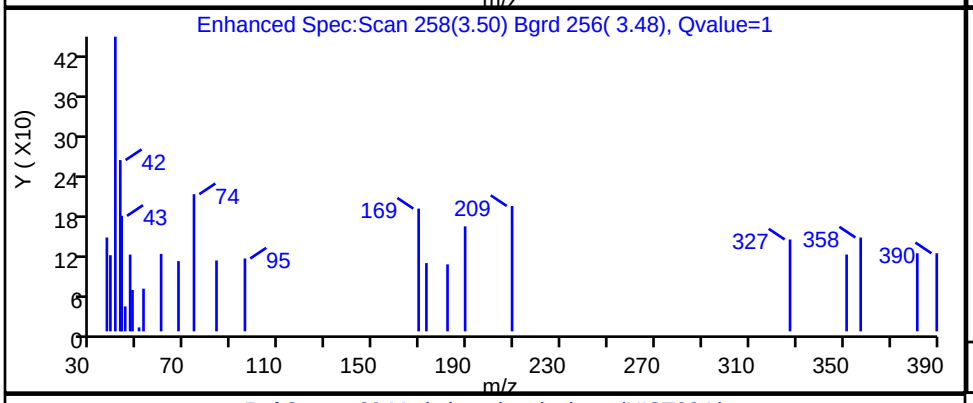
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

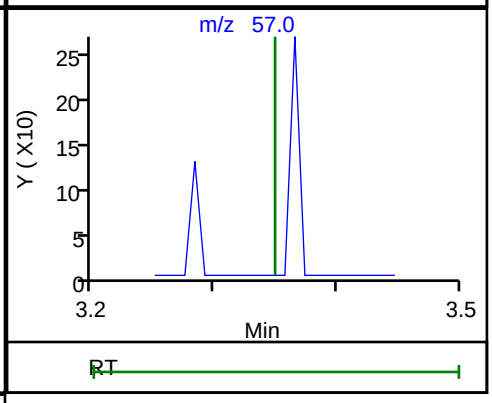
29 Methyl tert-butyl ether, CAS: 1634-04-4

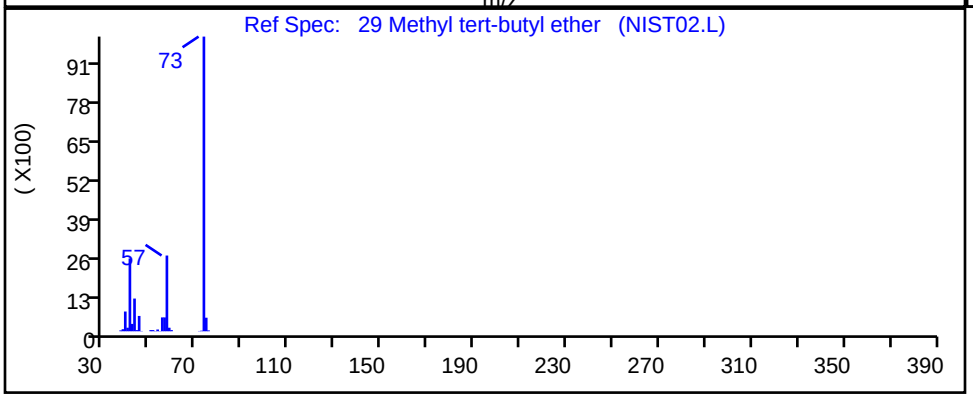
Processing Results











RT	Mass	Response	Amount
3.50	73.00	175	0.015479
3.35	57.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

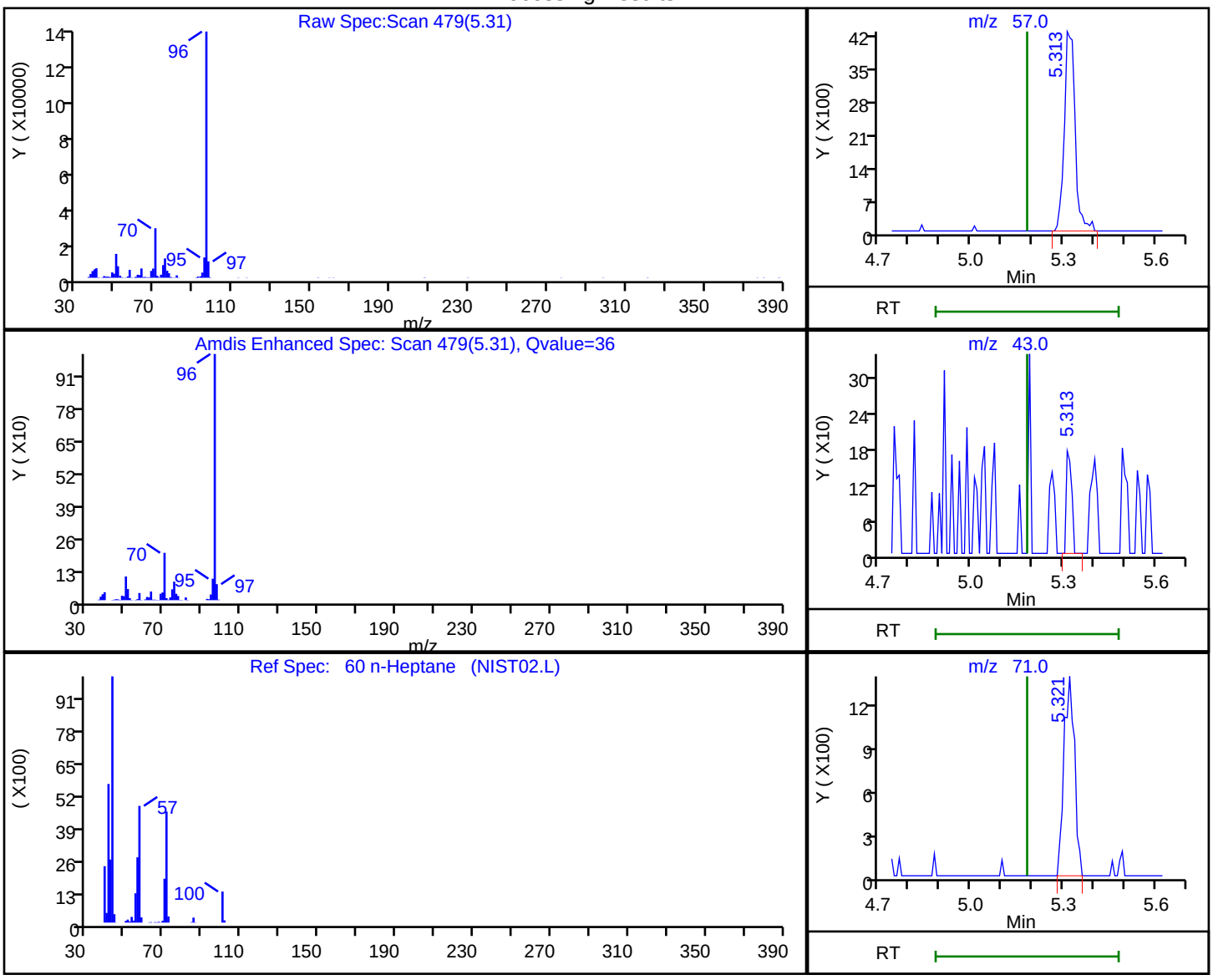
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.31	57.00	10516	3.554515
5.31	43.00	212	
5.32	71.00	3240	

Reviewer: delpolitov, 08-Jul-2018 17:41:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

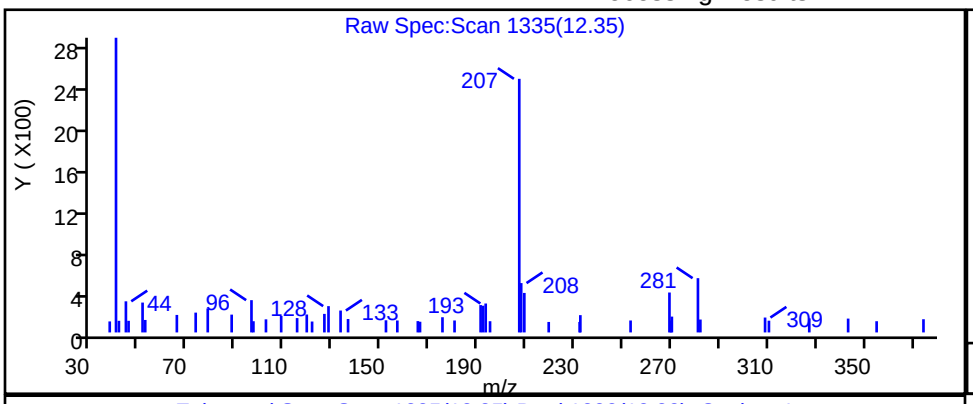
User Disabled Compound Report

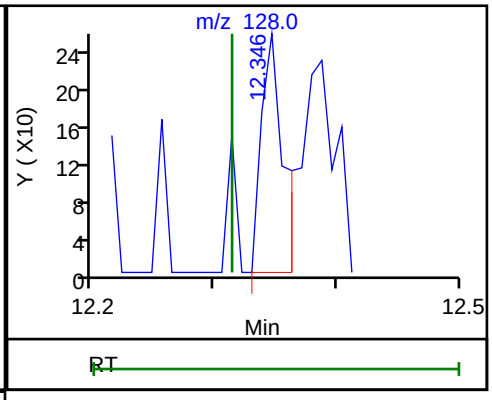
TestAmerica Edison

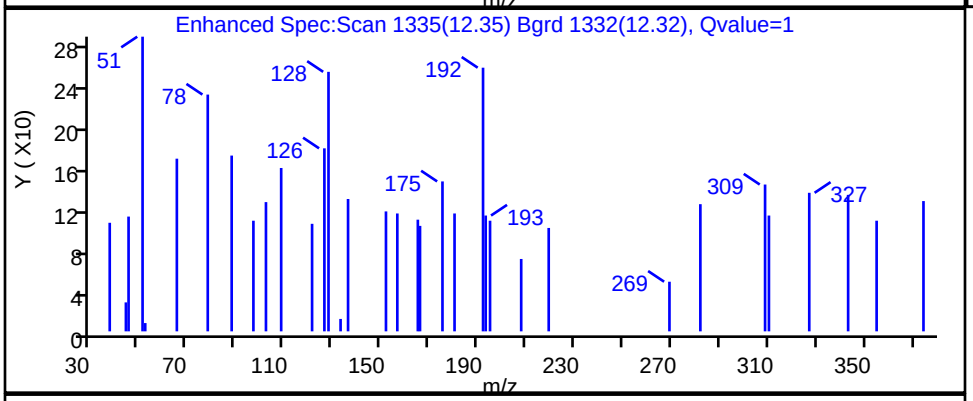
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

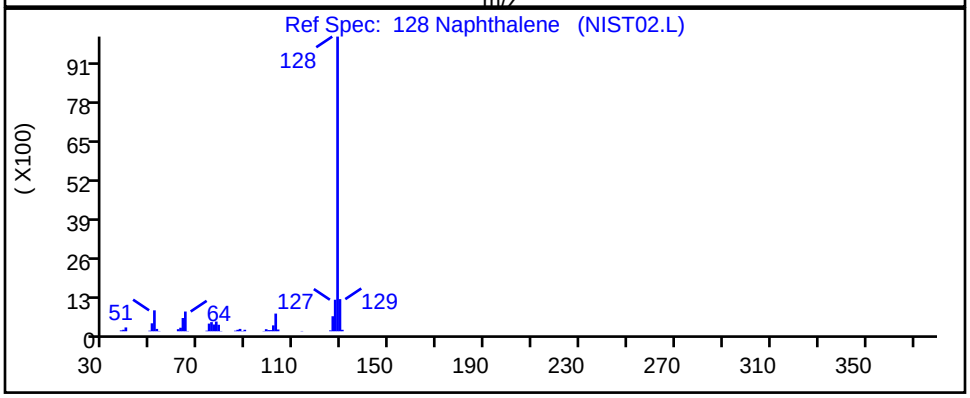
128 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
12.35	128.00	315	0.026266

Reviewer: delpolitov, 08-Jul-2018 17:42:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

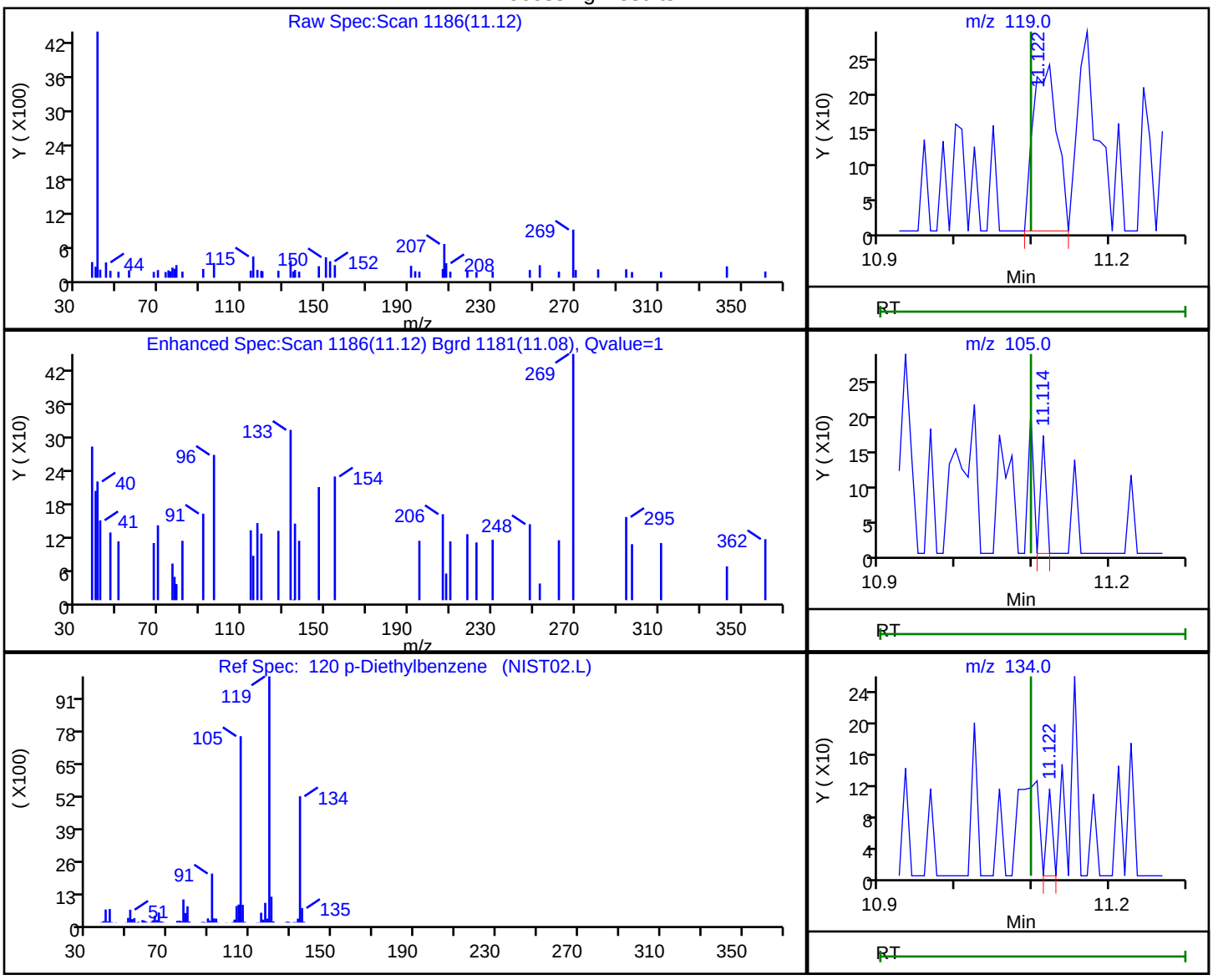
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.056918
11.11	105.00	84	
11.12	134.00	55	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

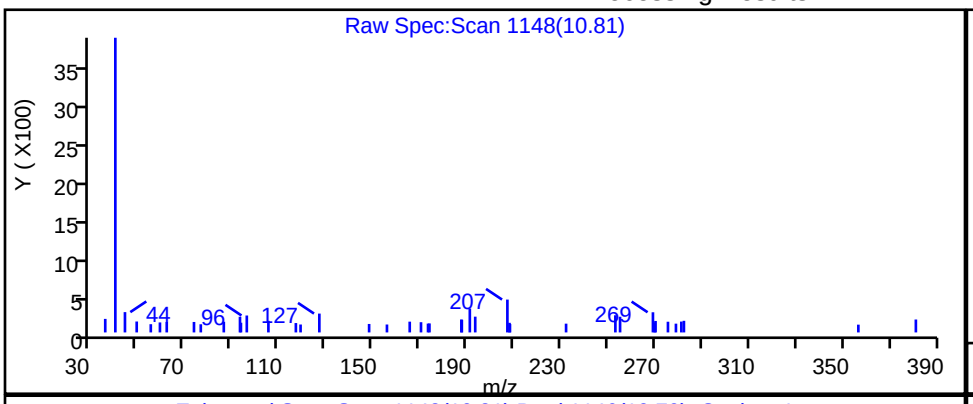
User Disabled Compound Report

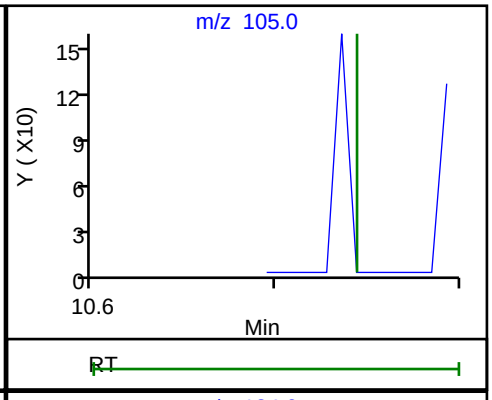
TestAmerica Edison

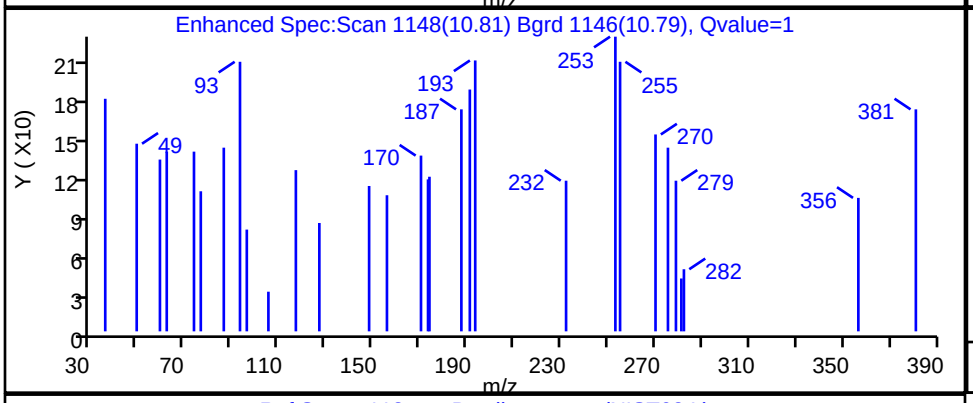
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

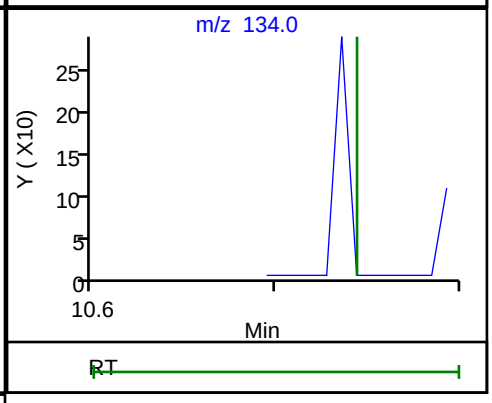
113 sec-Butylbenzene, CAS: 135-98-8

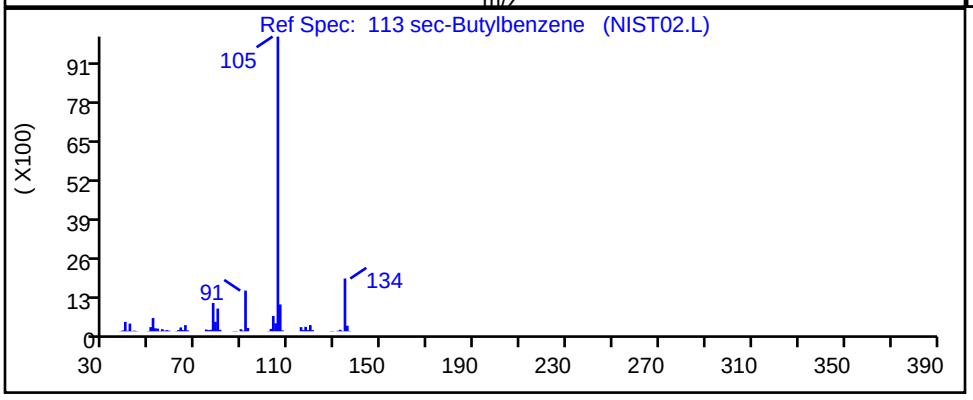
Processing Results











RT	Mass	Response	Amount
10.81	105.00	74	0.004295
10.82	134.00	89	

Reviewer: delpolitov, 08-Jul-2018 17:42:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

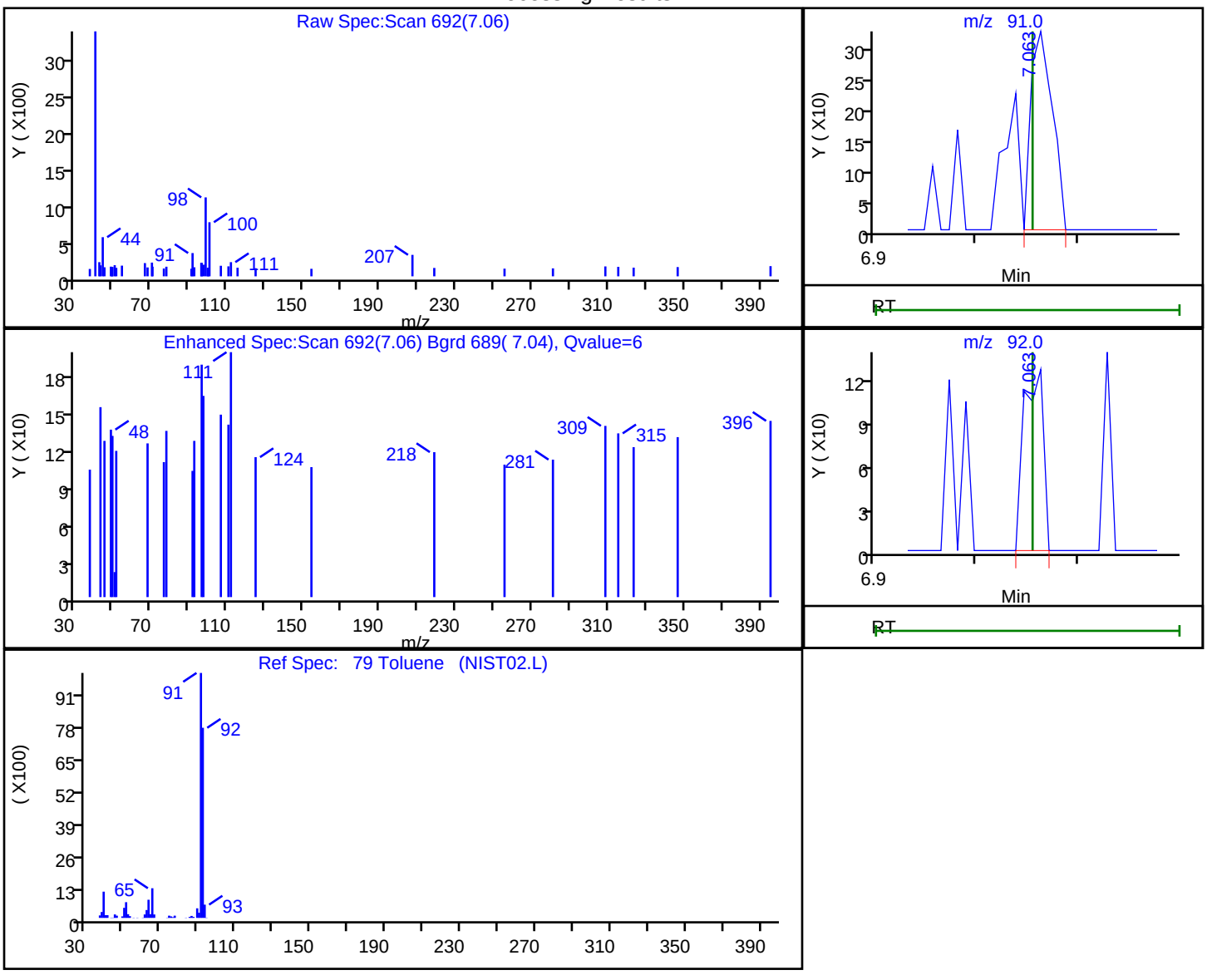
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
7.06	91.00	477	0.030064
7.06	92.00	167	

Reviewer: delpolitov, 08-Jul-2018 17:41:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

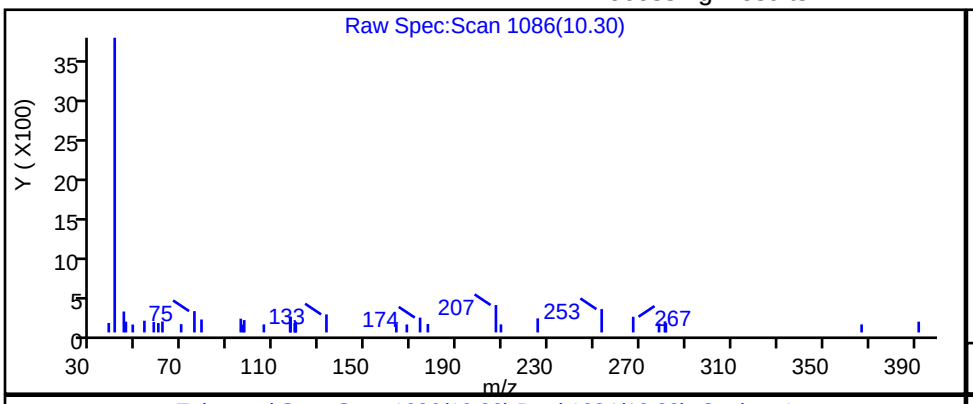
User Disabled Compound Report

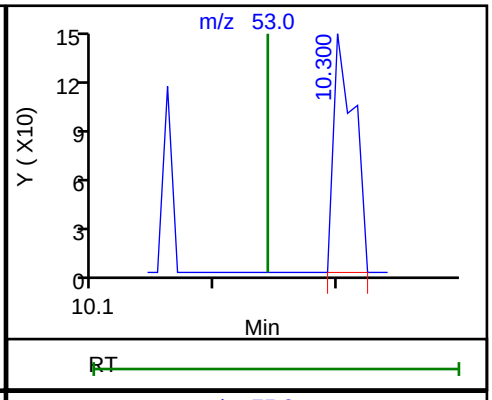
TestAmerica Edison

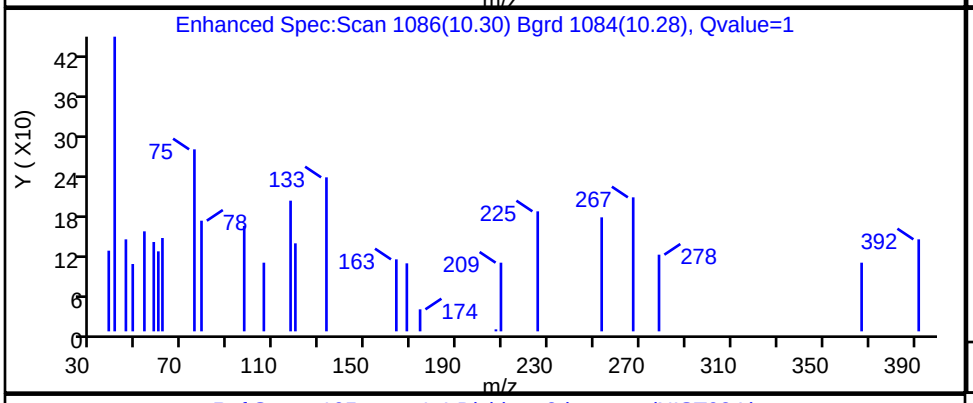
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

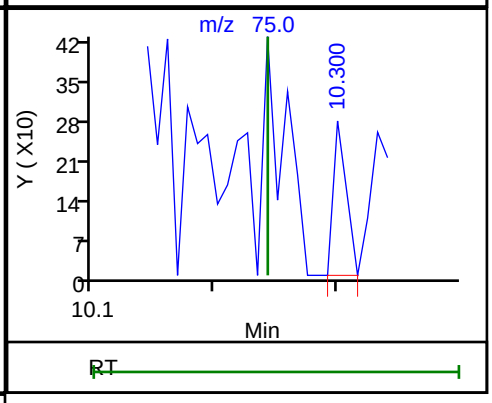
105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

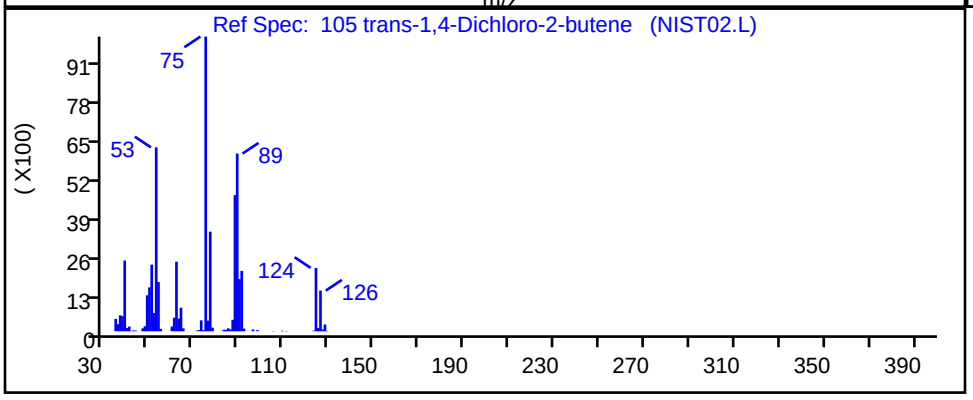
Processing Results











RT	Mass	Response	Amount
10.30	53.00	175	0.205958
10.30	75.00	202	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

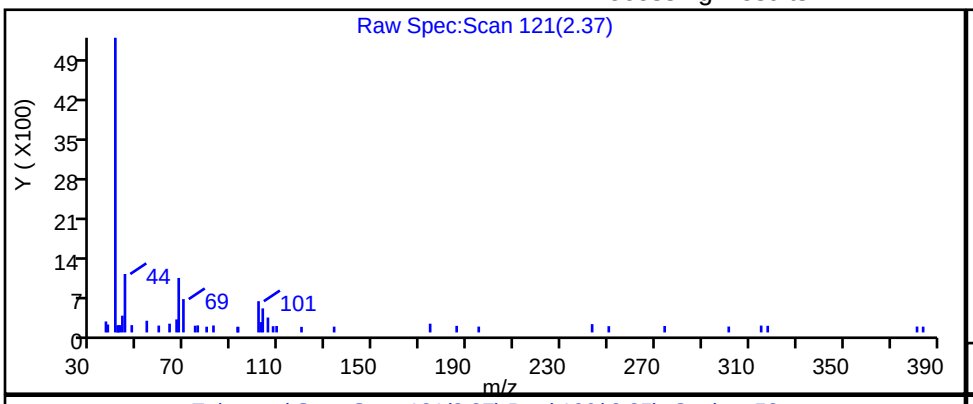
User Disabled Compound Report

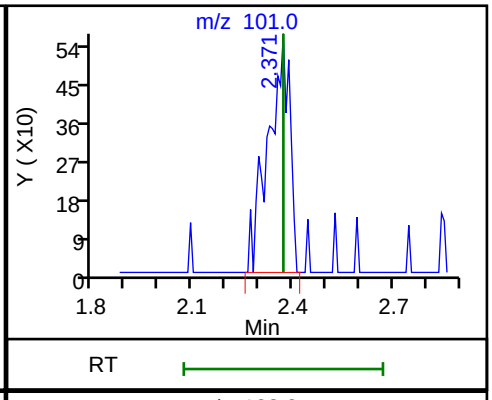
TestAmerica Edison

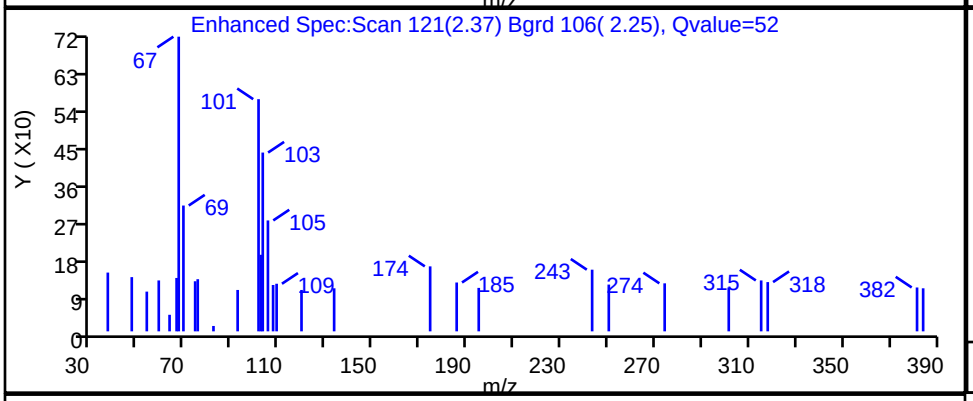
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

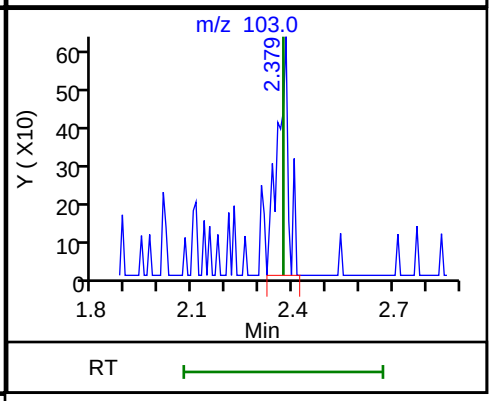
9 Trichlorofluoromethane, CAS: 75-69-4

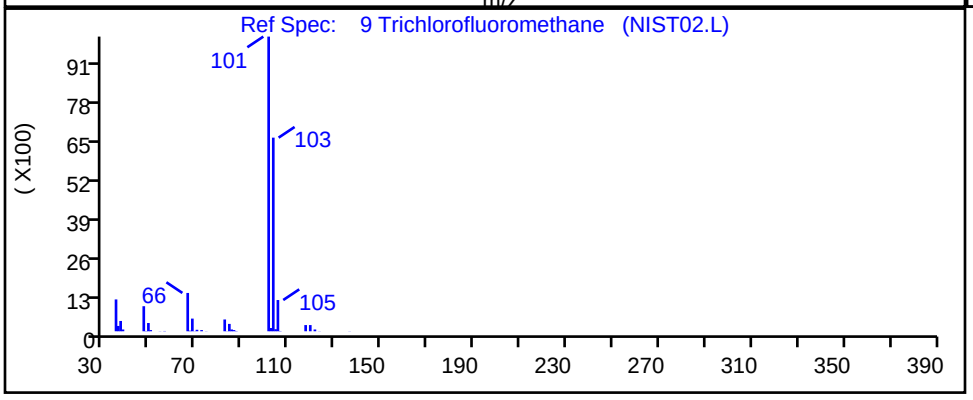
Processing Results











RT	Mass	Response	Amount
2.37	101.00	2498	0.351113
2.38	103.00	1436	

Reviewer: delpolitov, 08-Jul-2018 17:28:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

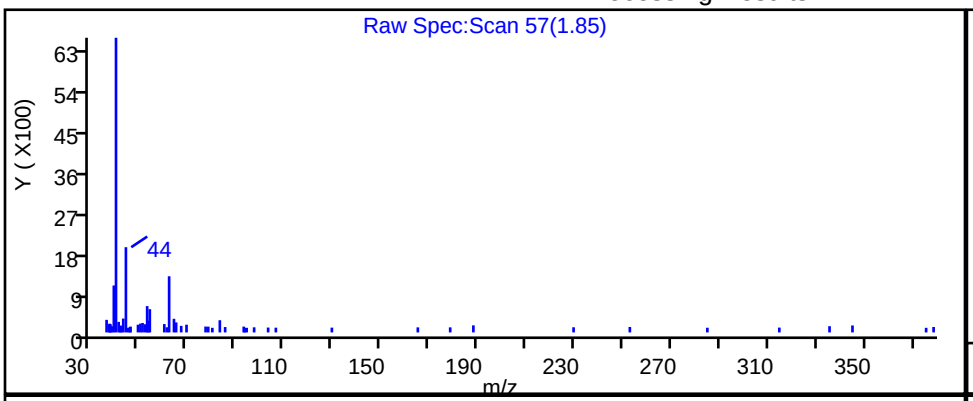
User Disabled Compound Report

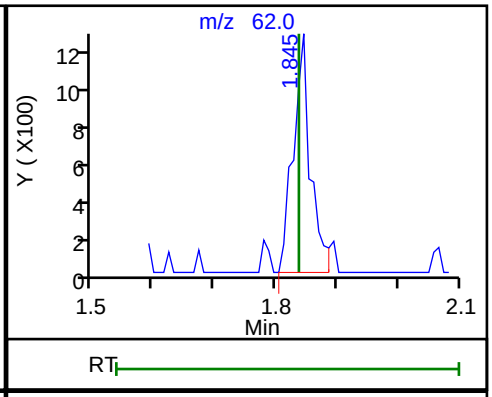
TestAmerica Edison

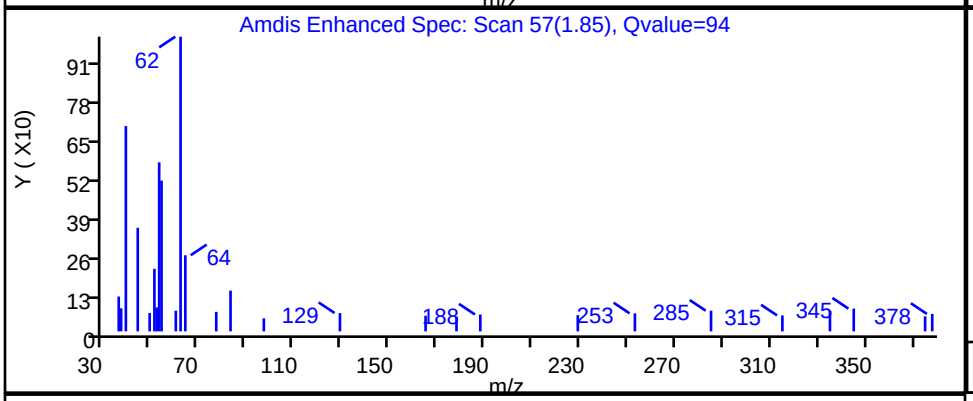
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

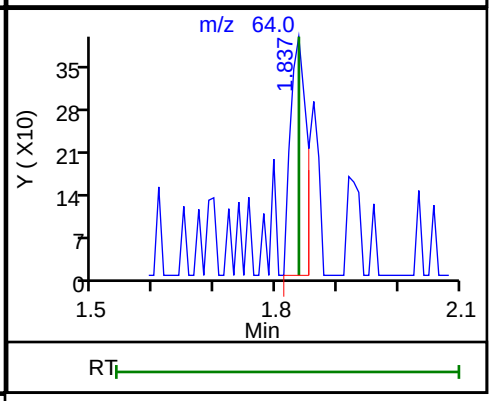
4 Vinyl chloride, CAS: 75-01-4

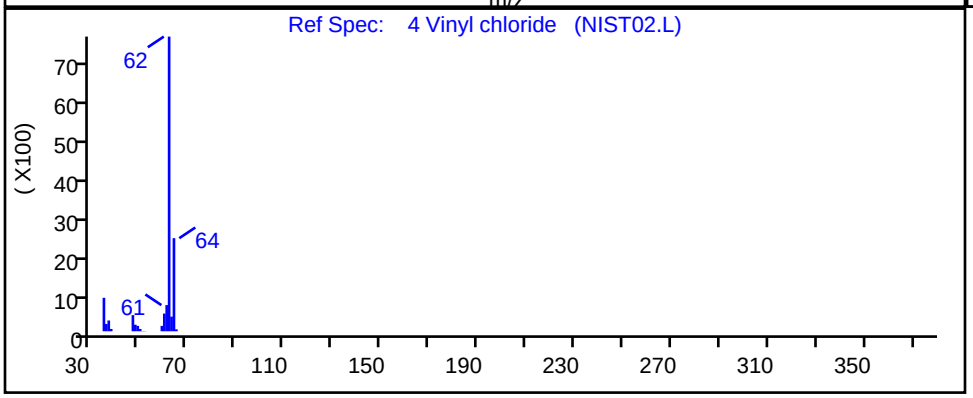
Processing Results











RT	Mass	Response	Amount
1.85	62.00	2428	0.322542
1.84	64.00	714	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Jul-2018 08:37:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0075068-004
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:34 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:16:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	45	2101	1.00	0.7611	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	66	6206	1.00	0.9311	
3 Chloromethane	50	1.746	1.747	-0.001	98	9180	1.00	1.13	
5 Butadiene	54	1.837	1.837	0.000	90	7159	1.00	0.9680	
4 Vinyl chloride	62	1.837	1.837	0.000	95	8381	1.00	1.03	
6 Bromomethane	94	2.116	2.116	0.000	95	6934	1.00	1.23	
7 Chloroethane	64	2.174	2.182	-0.008	95	5599	1.00	1.16	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	96	10001	1.00	0.9747	
10 Pentane	72	2.355	2.363	-0.008	96	1110	2.00	1.51	
9 Trichlorofluoromethane	101	2.363	2.371	-0.008	67	7738	1.00	1.03	
11 Ethanol	46	2.593	2.544	0.049	21	457	40.0	49.5	M
12 Ethyl ether	59	2.552	2.552	0.000	73	3428	1.00	1.02	
13 2-Methyl-1,3-butadiene	53	2.576	2.568	0.008	91	4319	1.00	1.10	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	72	4331	1.00	1.08	a
15 Acrolein	56	2.733	2.724	0.009	29	661	4.00	2.93	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	67	4820	1.00	1.03	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	95	4731	1.00	1.09	
18 Acetone	43	2.864	2.848	0.016	60	3274	5.00	4.20	M
19 Iodomethane	142	2.913	2.913	0.000	96	8478	1.00	1.08	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	25	1489	10.0	11.0	a
21 Carbon disulfide	76	2.946	2.955	-0.009	100	20504	1.00	1.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	95	8819	1.00	1.06	
24 Methyl acetate	43	3.078	3.078	0.000	52	4522	2.00	1.80	a
23 Cyclopentene	67	3.086	3.086	0.000	84	10911	1.00	0.99	
25 Acetonitrile	41	3.209	3.144	0.065	20	3213	10.0	8.03	M
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	116109	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	42	5762	1.00	1.08	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	11	2288	10.0	9.37	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	93	13690	1.00	1.07	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	92	5085	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.456	3.448	0.008	97	11424	10.0	7.98	
32 Hexane	43	3.521	3.522	-0.001	89	4326	1.00	1.11	
33 Isopropyl ether	45	3.727	3.727	0.000	96	14507	1.00	0.9884	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	97	8738	1.00	1.03	
35 Vinyl acetate	86	3.793	3.776	0.016	98	1360	2.00	1.65	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	77	4717	1.00	1.12	
37 Tert-butyl ethyl ether	59	4.023	4.039	-0.016	95	13740	1.00	1.00	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	136598	250.0	250.0	
39 2,2-Dichloropropane	97	4.277	4.269	0.008	50	2112	1.00	1.18	a
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	93	5362	1.00	0.99	
42 Ethyl acetate	70	4.310	4.286	0.024	47	900	2.00	2.49	
41 2-Butanone (MEK)	72	4.310	4.286	0.024	81	1917	5.00	5.30	
43 Methyl acrylate	55	4.351	4.351	0.000	47	2625	1.00	0.9661	Ma
44 Propionitrile	54	4.458	4.425	0.033	52	3081	10.0	7.13	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	2454	1.00	0.9868	
46 Tetrahydrofuran	72	4.516	4.508	0.008	40	1292	2.00	2.01	M
47 Methacrylonitrile	67	4.532	4.524	0.008	88	14869	10.0	9.55	
48 Chloroform	83	4.548	4.549	-0.001	73	7472	1.00	0.9718	
49 Cyclohexane	84	4.672	4.688	-0.016	59	6752	1.00	0.9411	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	36	8085	1.00	1.18	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	95672	50.0	51.2	
52 Carbon tetrachloride	117	4.820	4.812	0.008	93	5667	1.00	1.02	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	93	6011	1.00	0.99	
54 Isobutyl alcohol	43	5.000	4.992	0.008	34	4342	25.0	22.1	
55 Benzene	78	5.033	5.033	0.000	64	18589	1.00	1.05	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	100077	50.0	50.2	
57 Isopropyl acetate	43	5.099	5.083	0.016	84	10563	1.00	0.9620	
58 Tert-amyl methyl ether	73	5.083	5.091	-0.008	83	13557	1.00	0.9269	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	97	6967	1.00	1.26	
60 n-Heptane	57	5.181	5.181	0.000	91	3068	1.00	0.9133	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	374608	50.0	50.0	
62 n-Butanol	56	5.641	5.650	-0.009	4	109	25.0	1.87	Ma
63 Trichloroethene	95	5.674	5.674	0.000	95	5186	1.00	1.12	
65 Ethyl acrylate	55	5.797	5.789	0.008	77	7287	1.00	0.7269	
64 Methylcyclohexane	83	5.797	5.798	-0.001	95	7208	1.00	0.8856	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	90	4632	1.00	0.9684	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	9663	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	86	1058	2.00	2.04	
69 1,4-Dioxane	88	6.093	6.085	0.008	44	953	50.0	51.7	M
70 n-Propyl acetate	43	6.143	6.085	0.058	59	4168	1.00	0.9386	Ma
71 Dibromomethane	93	6.093	6.093	0.000	88	3175	1.00	1.17	
72 Dichlorobromomethane	83	6.241	6.241	0.000	97	6161	1.00	1.06	
73 2-Nitropropane	41	6.578	6.570	0.008	75	2118	2.00	2.55	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	48	1645	1.00	0.7869	
75 Epichlorohydrin	57	6.693	6.685	0.008	93	5069	20.0	18.5	a
76 cis-1,3-Dichloropropene	75	6.742	6.734	0.008	92	6269	1.00	0.9782	
77 4-Methyl-2-pentanone (MIBK	43	6.907	6.899	0.008	94	11173	5.00	4.00	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	347975	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	94	18562	1.00	1.04	
80 trans-1,3-Dichloropropene	75	7.424	7.408	0.016	81	5482	1.00	1.03	
81 Ethyl methacrylate	69	7.449	7.433	0.016	50	3203	1.00	0.7320	
82 1,1,2-Trichloroethane	83	7.613	7.622	-0.009	88	2798	1.00	0.9417	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	94	4612	1.00	1.06	
84 1,3-Dichloropropane	76	7.835	7.827	0.008	91	5362	1.00	0.9539	
85 2-Hexanone	43	7.917	7.893	0.024	72	3093	5.00	5.06	
86 n-Butyl acetate	43	8.032	8.008	0.024	34	1864	1.00	0.99	M
87 Chlorodibromomethane	129	8.065	8.065	0.000	96	4025	1.00	1.05	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	96	2979	1.00	0.9192	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	252919	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	97	11664	1.00	1.04	
91 Ethylbenzene	106	8.895	8.895	0.000	97	6771	1.00	1.04	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	91	4385	1.00	1.03	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	7136	1.00	0.9232	
94 n-Butyl acrylate	73	9.536	9.487	0.049	31	1421	1.00	1.02	
95 o-Xylene	106	9.503	9.503	0.000	91	7504	1.00	0.9387	
96 Styrene	104	9.544	9.536	0.008	97	11669	1.00	0.9393	M
97 Amyl acetate (mixed isomer	43	9.750	9.717	0.033	45	2413	1.00	1.03	Ma
98 Bromoform	173	9.750	9.742	0.008	95	2543	1.00	1.03	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	18025	1.00	0.9383	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	105689	50.0	51.8	
101 Bromobenzene	156	10.152	10.144	0.008	96	5396	1.00	1.09	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	94	4570	1.00	0.9765	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	23444	1.00	1.03	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	88	1662	1.00	1.26	
105 trans-1,4-Dichloro-2-buten	53	10.259	10.243	0.016	1	432	1.00	1.01	
106 2-Chlorotoluene	91	10.300	10.292	0.008	97	16430	1.00	1.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	82	17032	1.00	0.9075	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	16210	1.00	0.9800	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	14193	1.00	1.00	
110 Butyl Methacrylate	87	10.440	10.432	0.008	57	3544	1.00	1.03	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	12385	1.00	0.9282	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	15797	1.00	0.9387	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	20280	1.00	0.9869	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	97	16216	1.00	0.9341	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	9487	1.00	0.9744	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	94	143687	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	89	9982	1.00	0.99	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	18062	1.00	1.01	
118 Benzyl chloride	91	11.032	11.024	0.008	96	7060	1.00	0.7901	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	92	18019	1.00	1.00	
120 p-Diethylbenzene	119	11.106	11.098	0.008	94	9865	1.00	0.9230	
121 n-Butylbenzene	92	11.122	11.114	0.008	96	9483	1.00	0.9578	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	93	9954	1.00	1.02	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	97	16200	1.00	0.9712	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.656	0.008	40	909	1.00	1.05	
125 1,3,5-Trichlorobenzene	180	11.746	11.738	0.008	95	7826	1.00	1.03	
126 1,2,4-Trichlorobenzene	180	12.149	12.141	0.008	93	6018	1.00	0.8903	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	90	3628	1.00	1.13	
128 Naphthalene	128	12.322	12.314	0.008	97	11939	1.00	0.8346	
129 1,2,3-Trichlorobenzene	180	12.486	12.478	0.008	94	7132	1.00	1.10	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.06	
S 131 Xylenes, Total	100				0		2.00	1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
14DIOXINTER_00086	Amount Added:	30.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:00:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D

Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6 Operator ID:

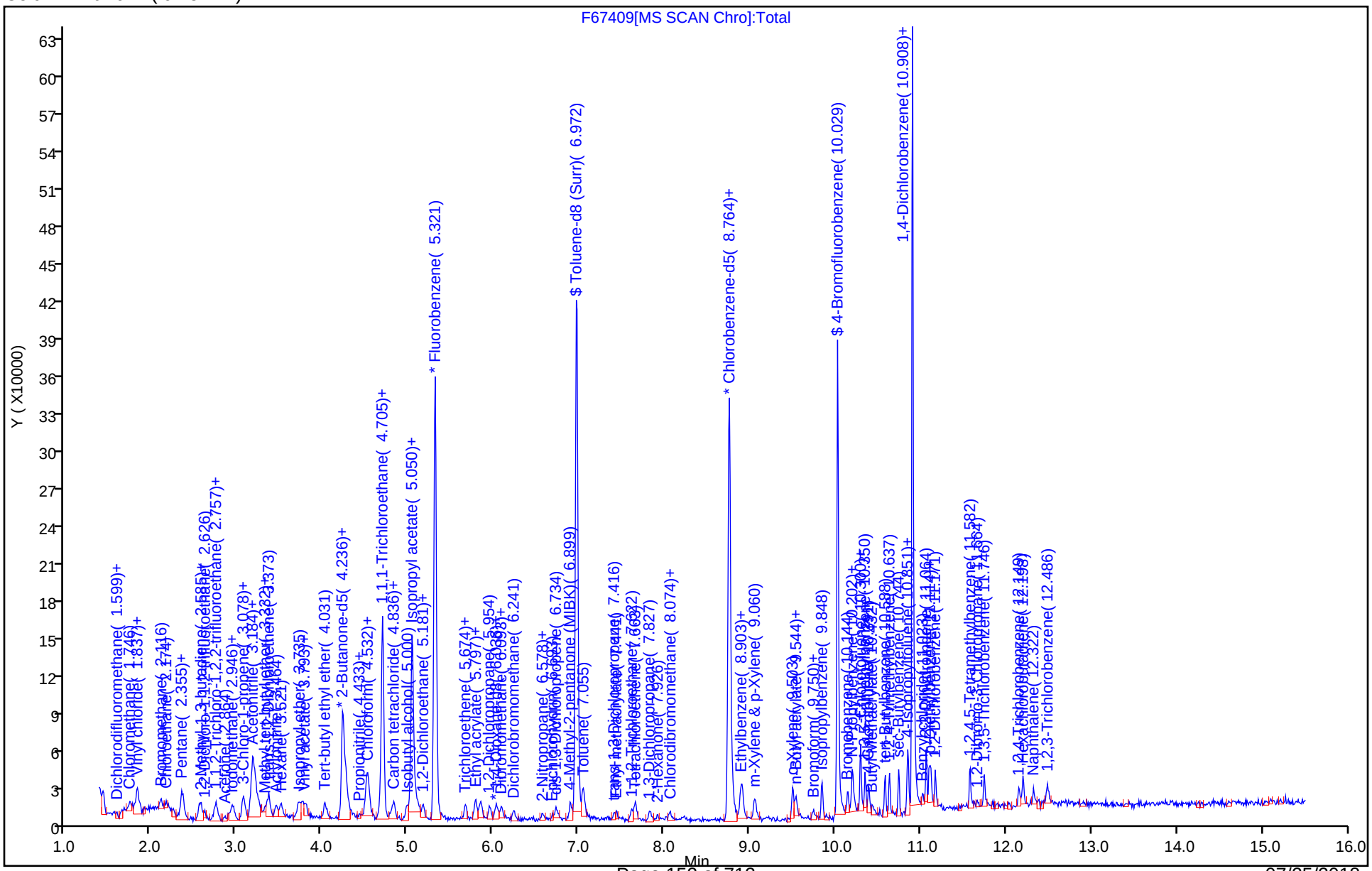
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

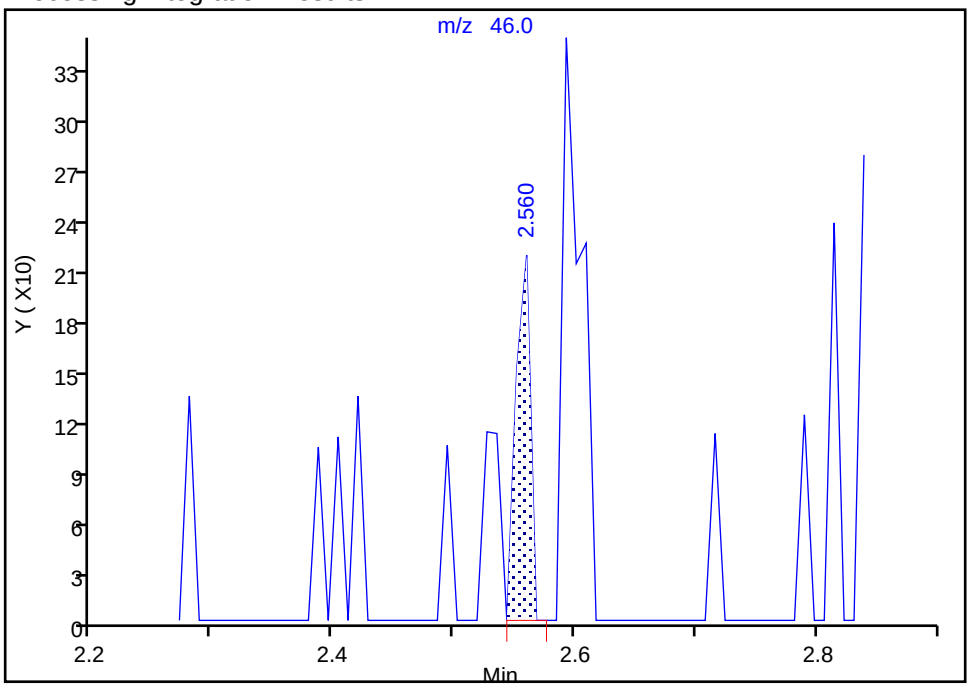
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

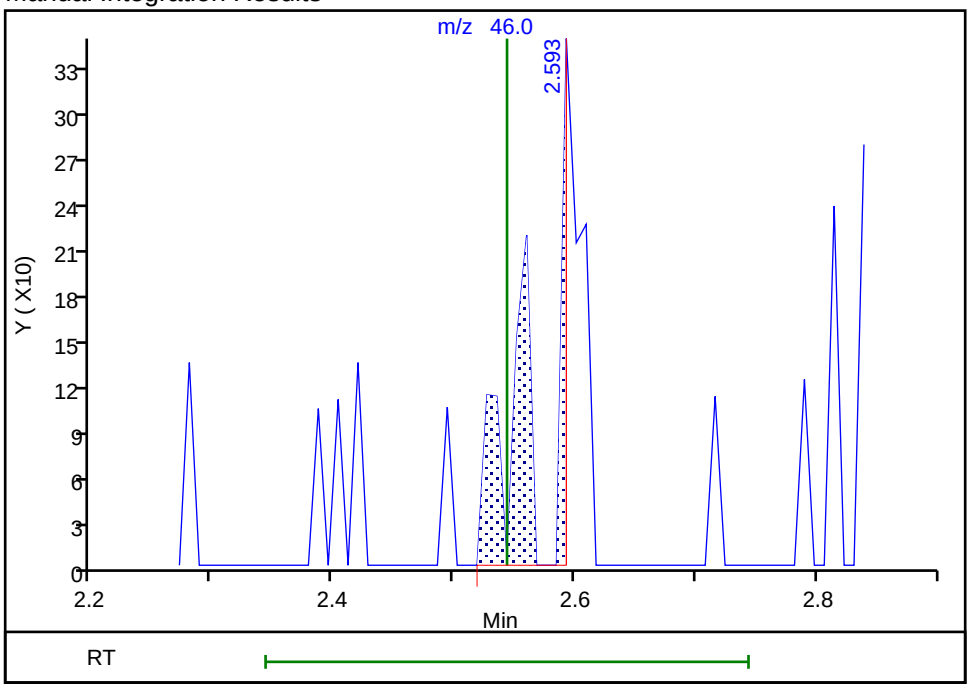
Processing Integration Results

RT: 2.56
Area: 179
Amount: 27.301764
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 457
Amount: 49.495510
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:50:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

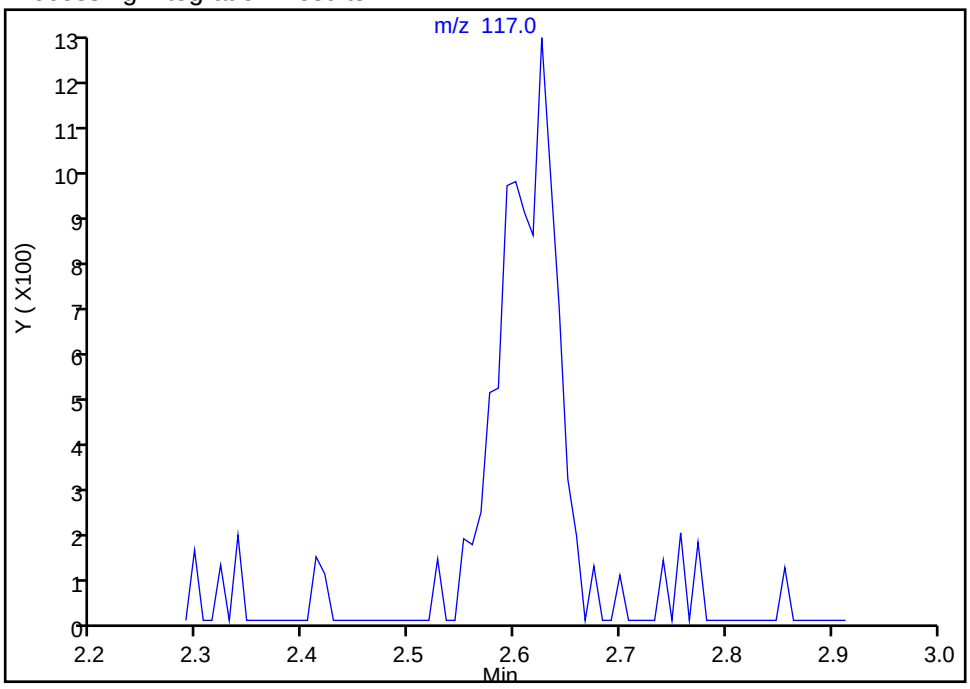
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Signal: 1

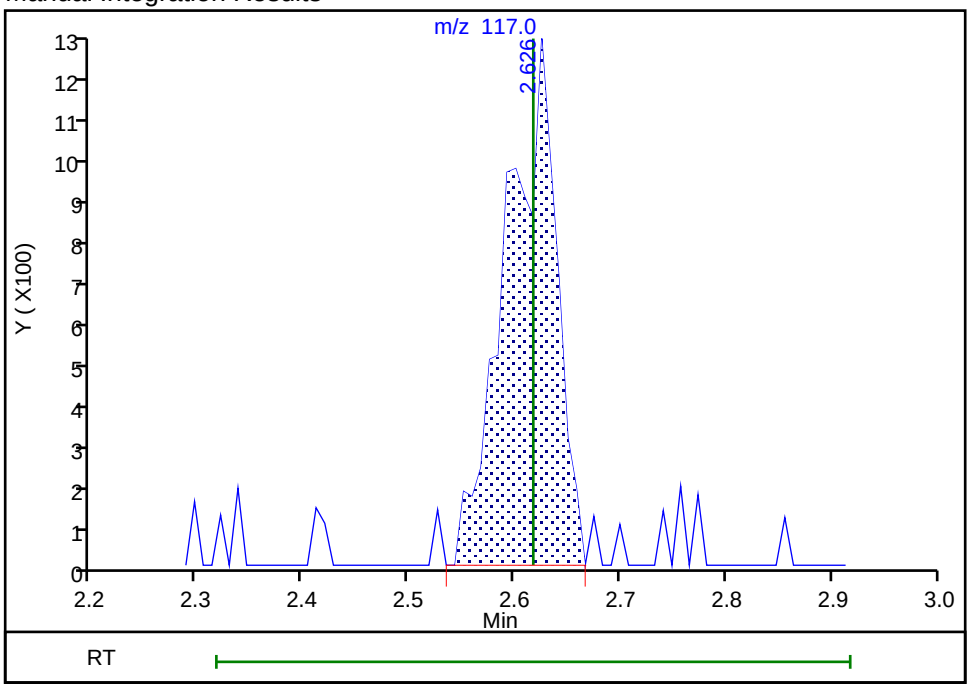
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.63
Area: 4331
Amount: 1.083085
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

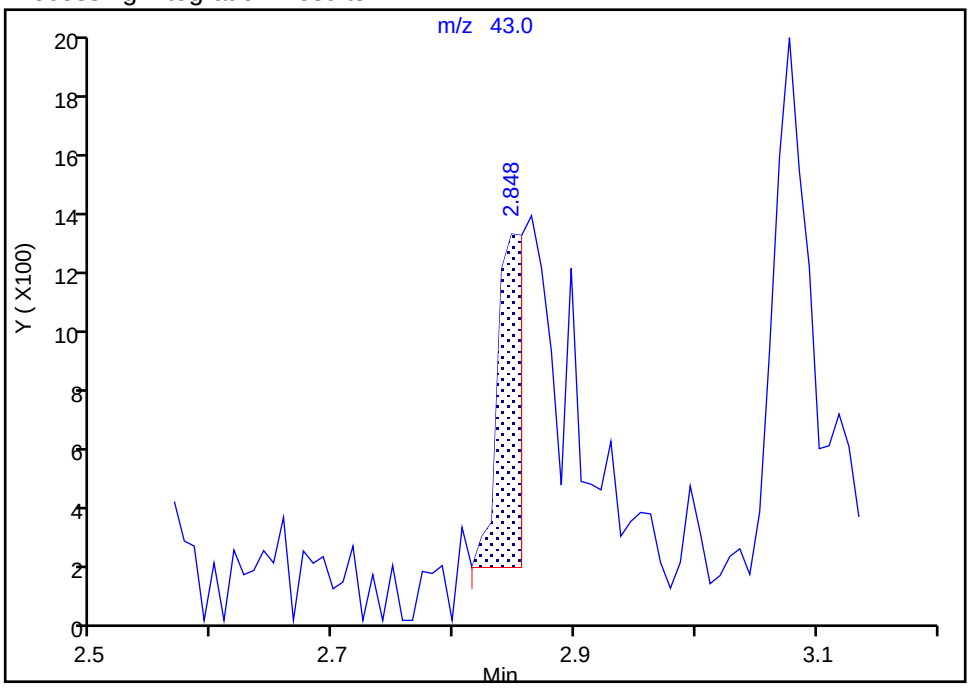
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

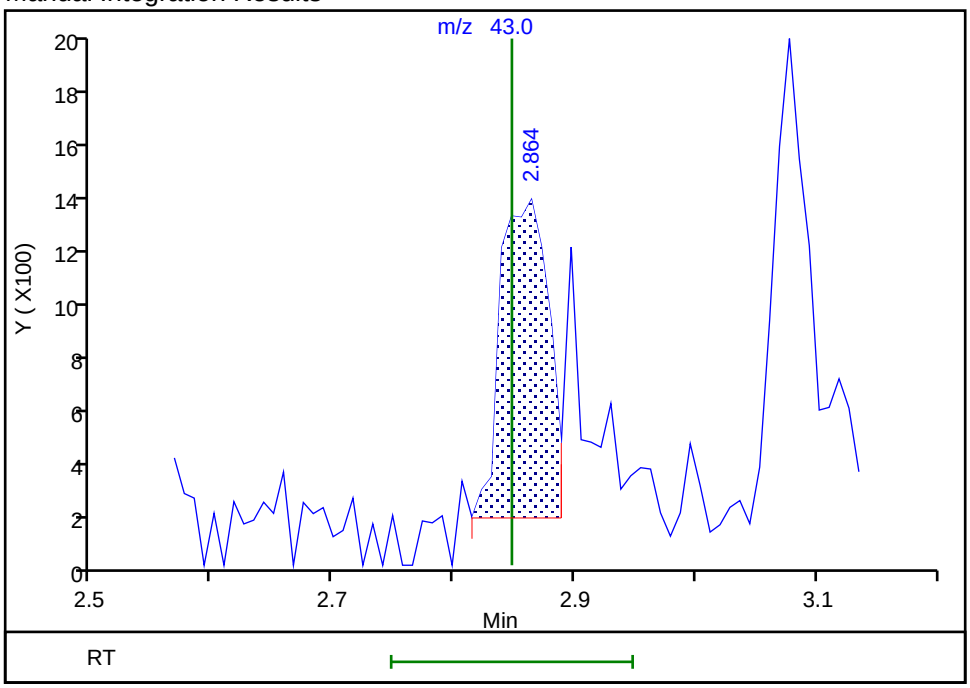
Processing Integration Results

RT: 2.85
Area: 1705
Amount: 2.046142
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 3274
Amount: 4.204923
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

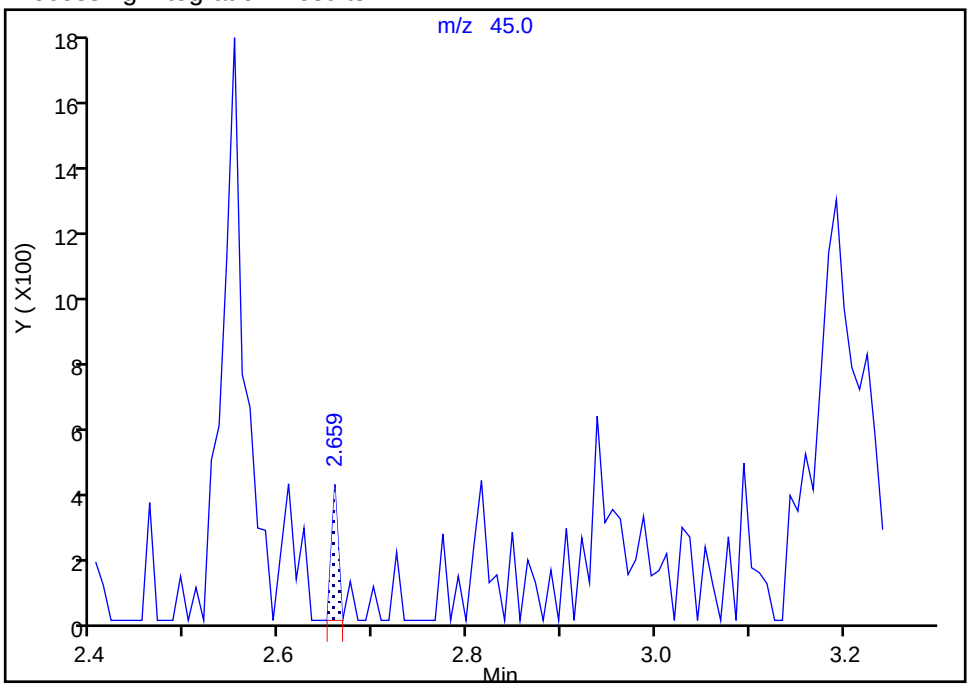
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

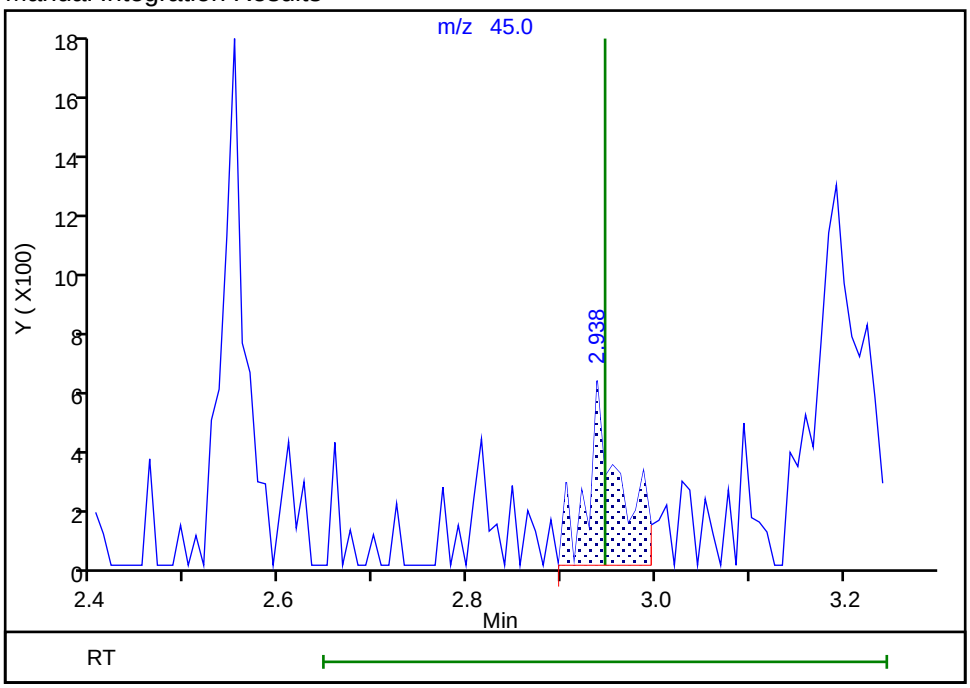
Processing Integration Results

RT: 2.66
Area: 206
Amount: 1.722006
Amount Units: ug/l



Manual Integration Results

RT: 2.94
Area: 1489
Amount: 10.963757
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

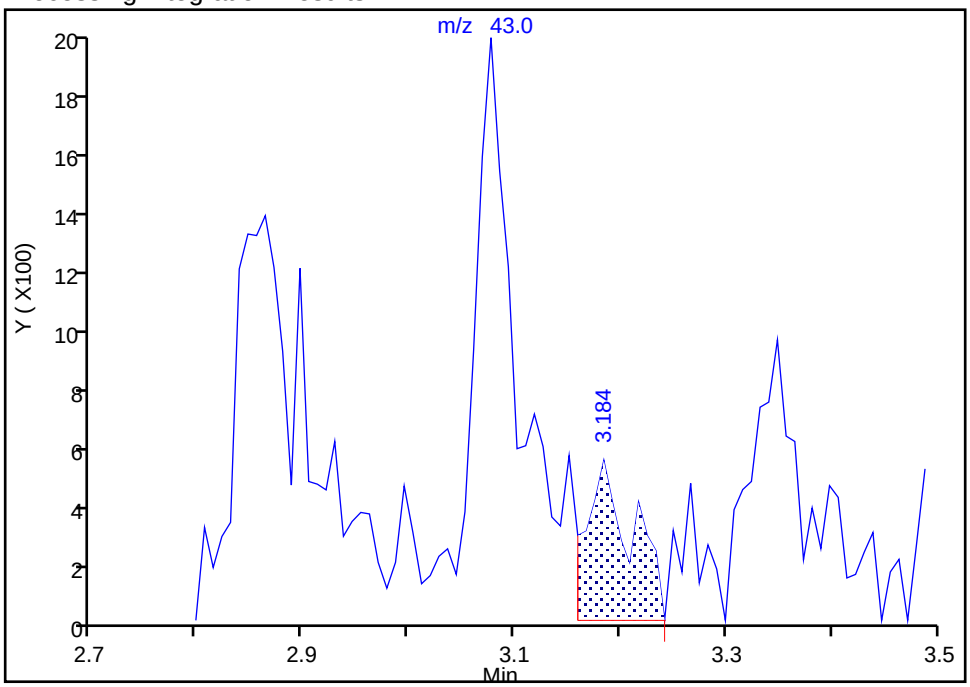
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

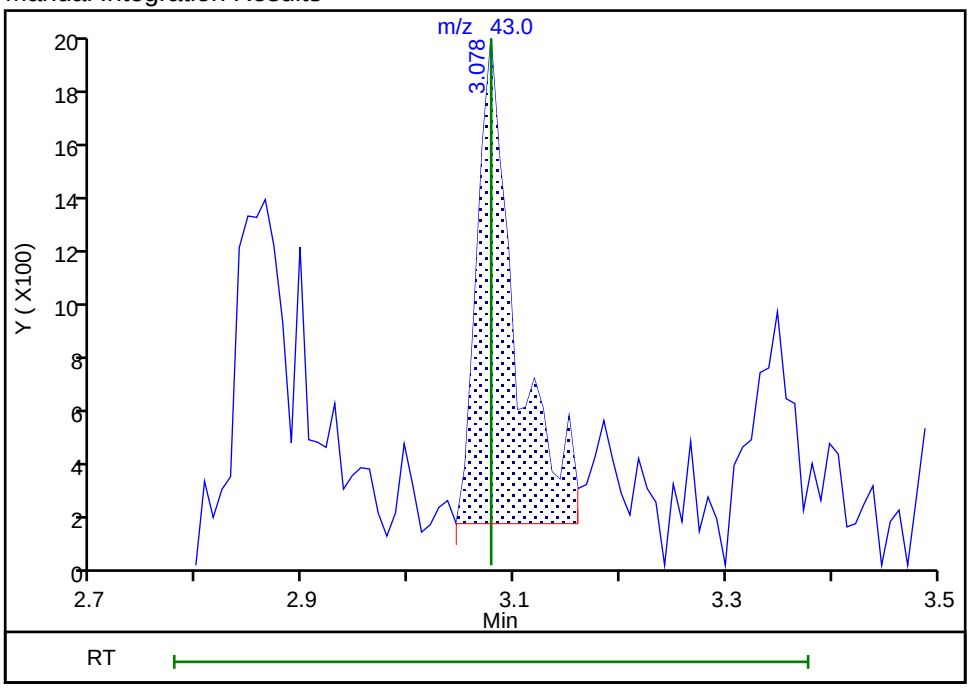
Processing Integration Results

RT: 3.18
Area: 1607
Amount: 0.648934
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 4522
Amount: 1.801377
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:34
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

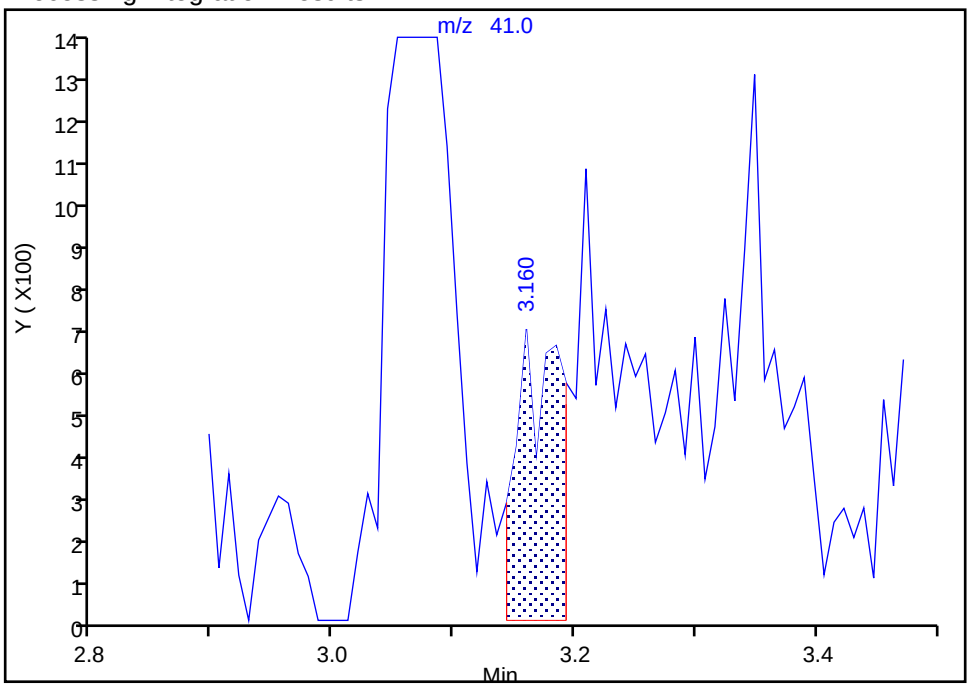
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

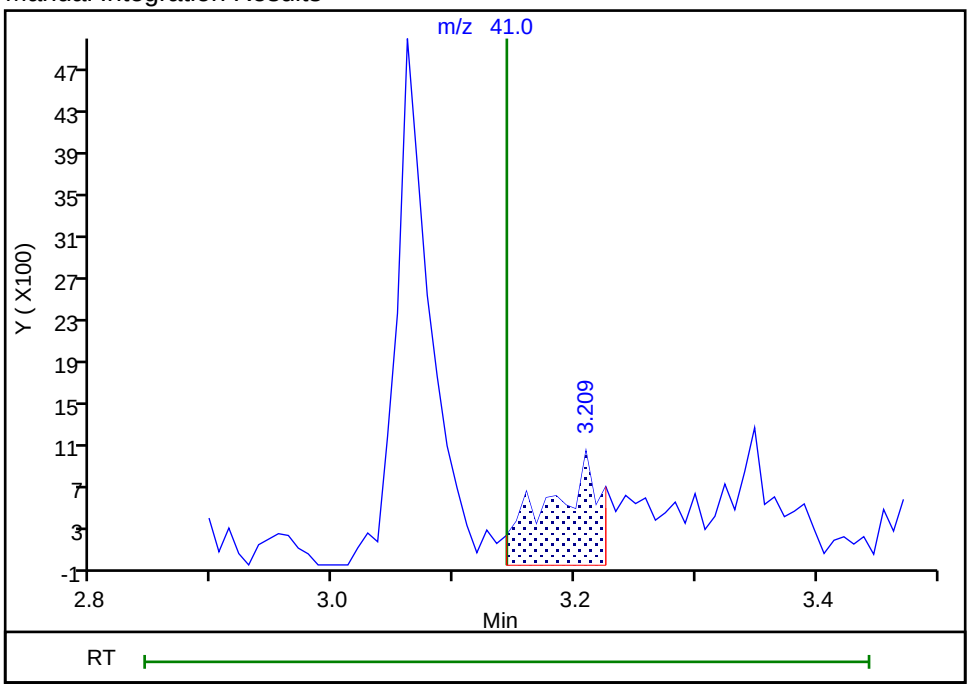
Processing Integration Results

RT: 3.16
Area: 1775
Amount: 2.376885
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 3213
Amount: 8.029178
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

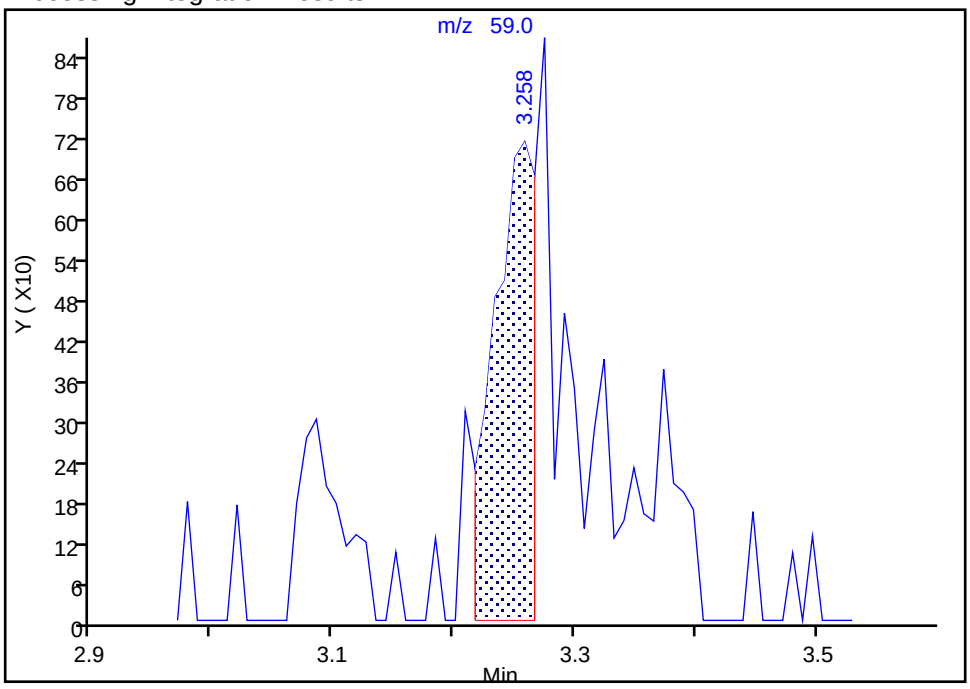
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

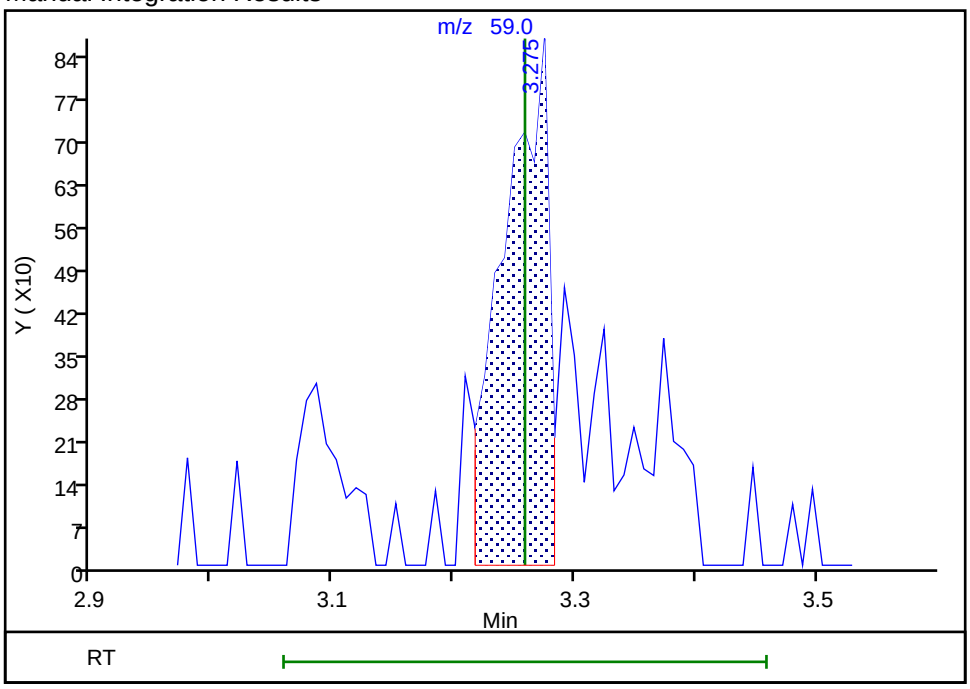
Processing Integration Results

RT: 3.26
Area: 1760
Amount: 7.577499
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 2288
Amount: 9.371030
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

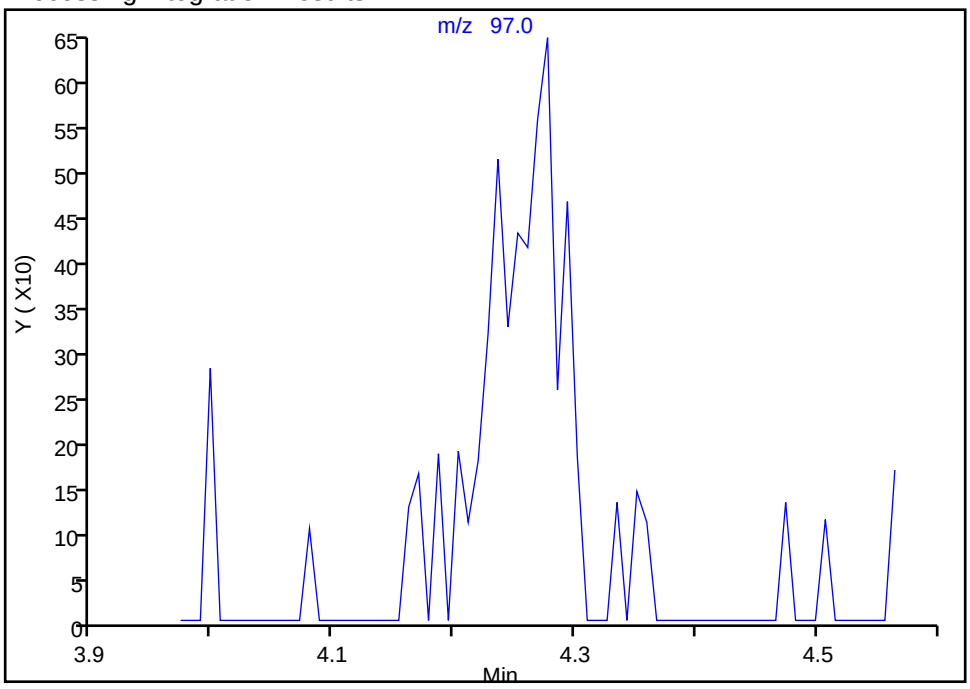
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

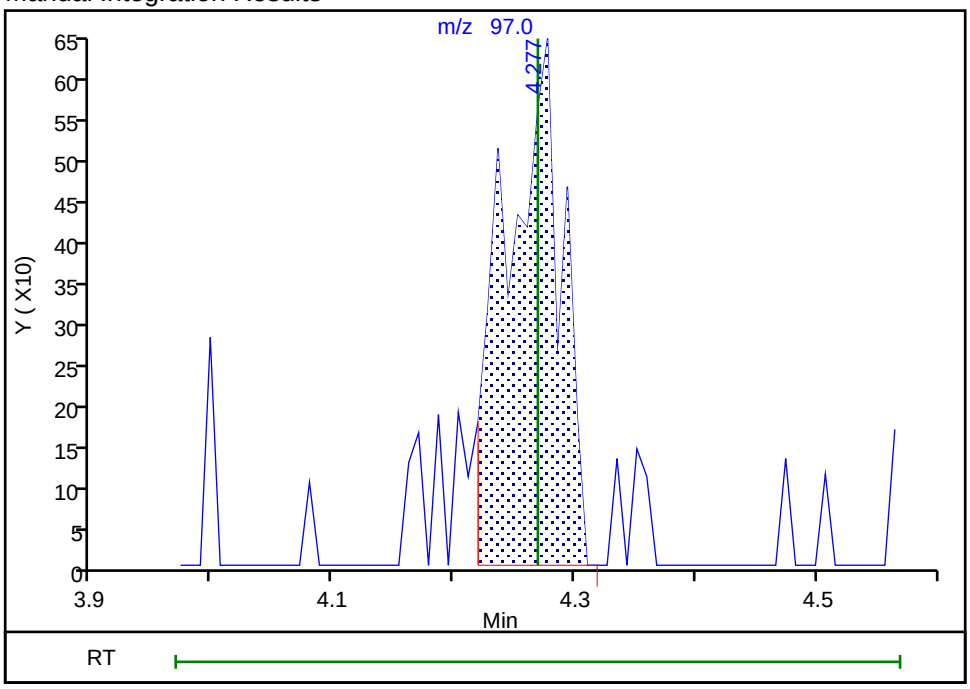
Not Detected
Expected RT: 4.27

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 2112
Amount: 1.176045
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

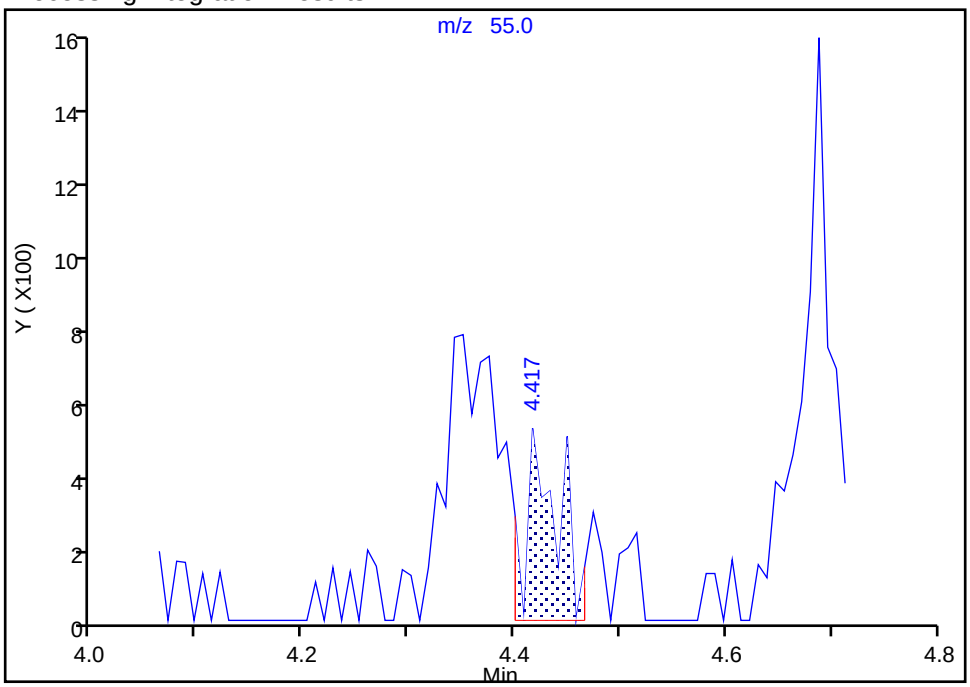
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

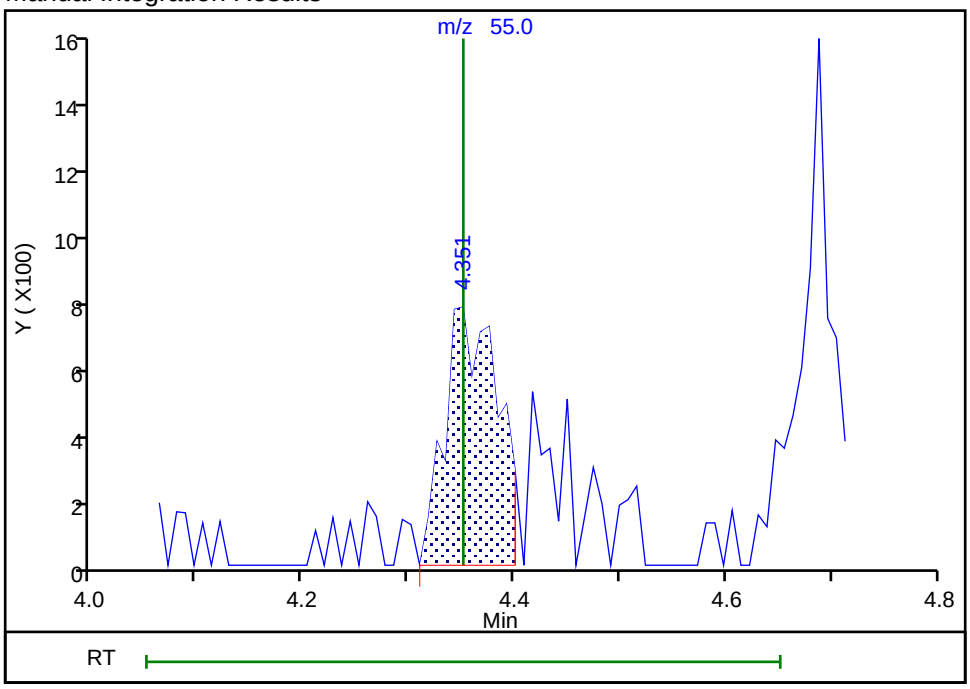
Processing Integration Results

RT: 4.42
Area: 1071
Amount: 0.391012
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 2625
Amount: 0.966114
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

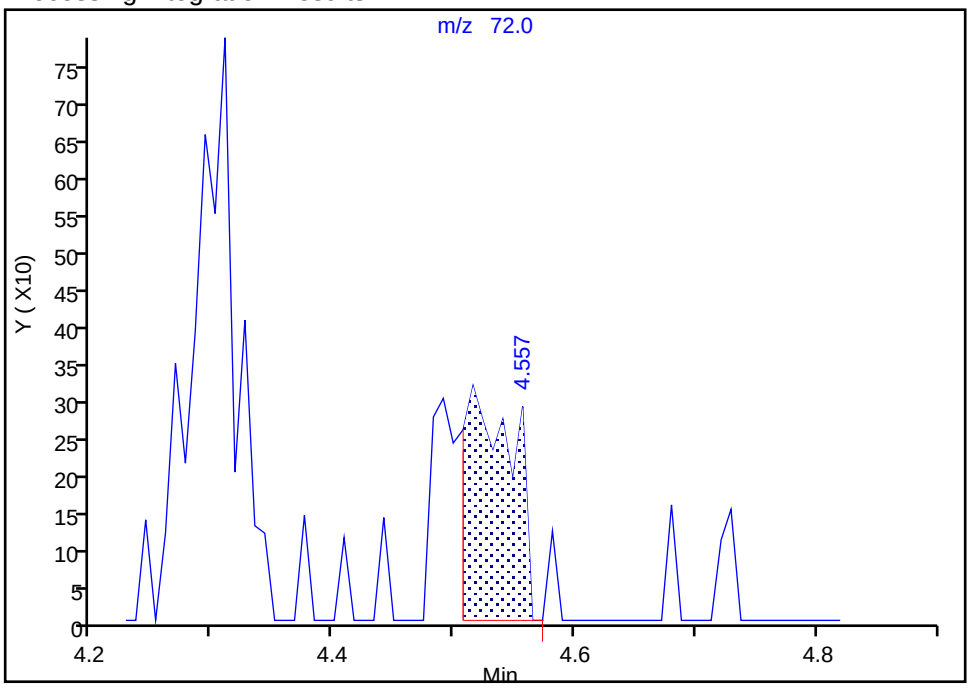
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D				
Injection Date:	08-Jul-2018 08:37:30	Instrument ID:	CVOAMS6		
Lims ID:	STD1				
Client ID:					
Operator ID:		ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

46 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

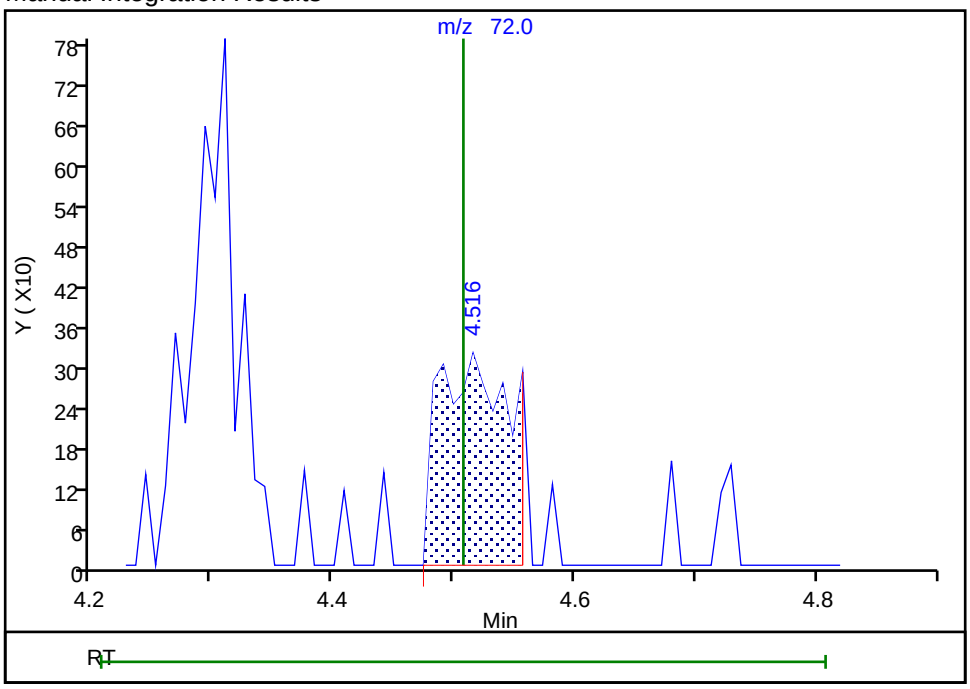
Processing Integration Results

RT: 4.56
Area: 894
Amount: 2.134241
Amount Units: ug/l



Manual Integration Results

RT: 4.52
Area: 1292
Amount: 2.011635
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:14

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

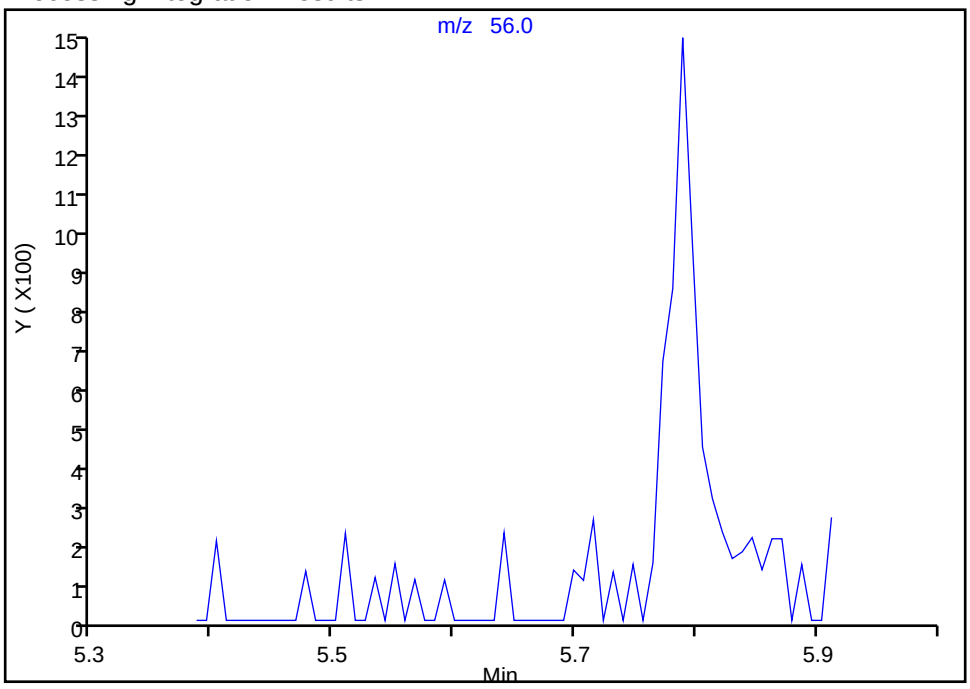
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

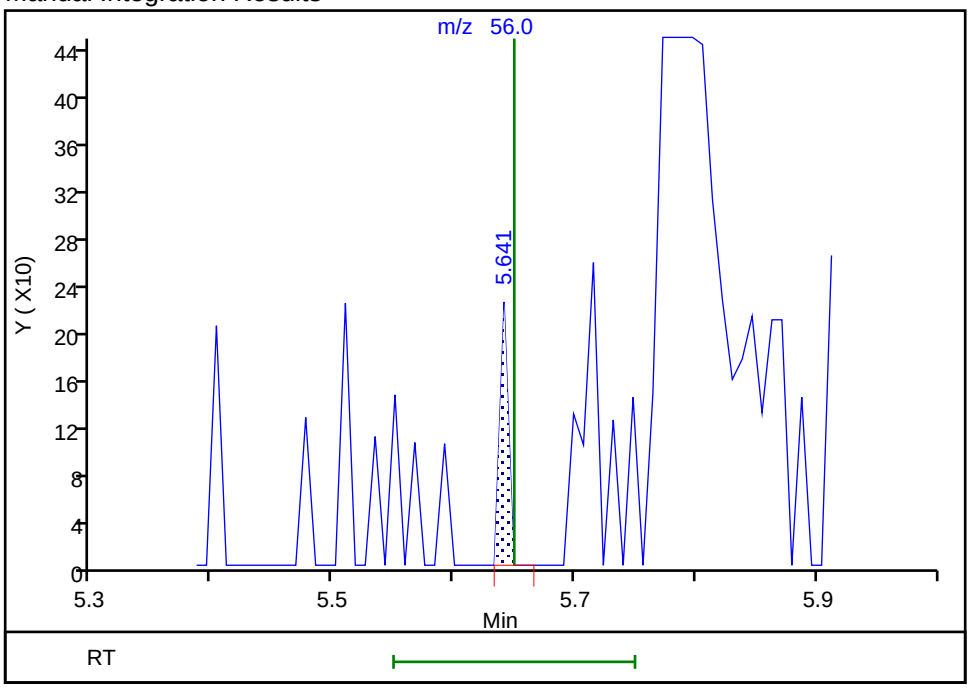
Not Detected
Expected RT: 5.65

Processing Integration Results



Manual Integration Results

RT: 5.64
Area: 109
Amount: 1.870900
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

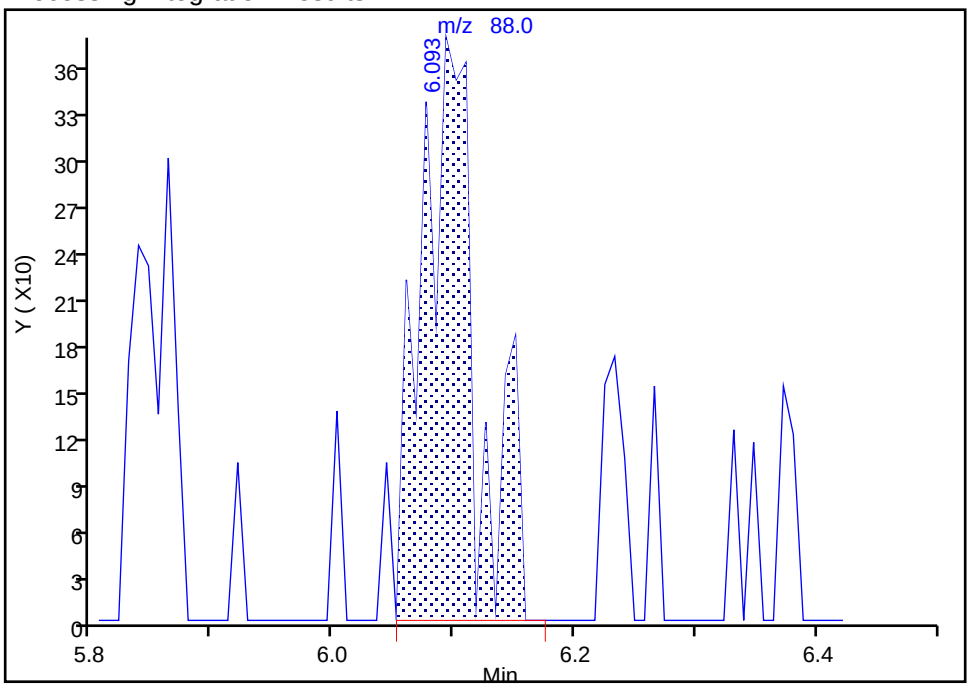
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

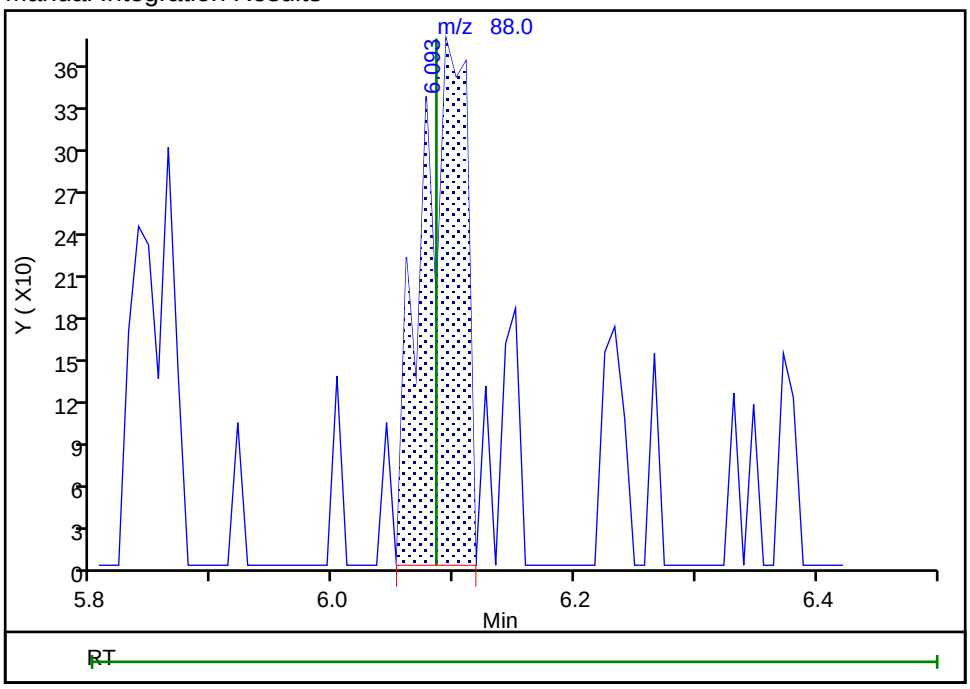
Processing Integration Results

RT: 6.09
Area: 1183
Amount: 67.510741
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 953
Amount: 51.669148
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:02:08
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

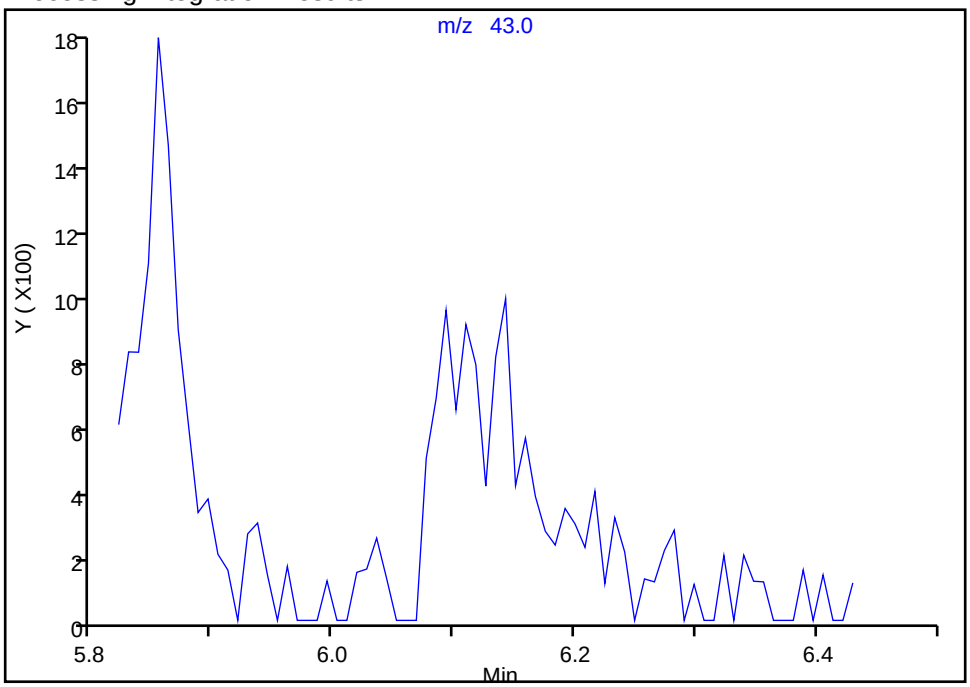
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 n-Propyl acetate, CAS: 109-60-4

Signal: 1

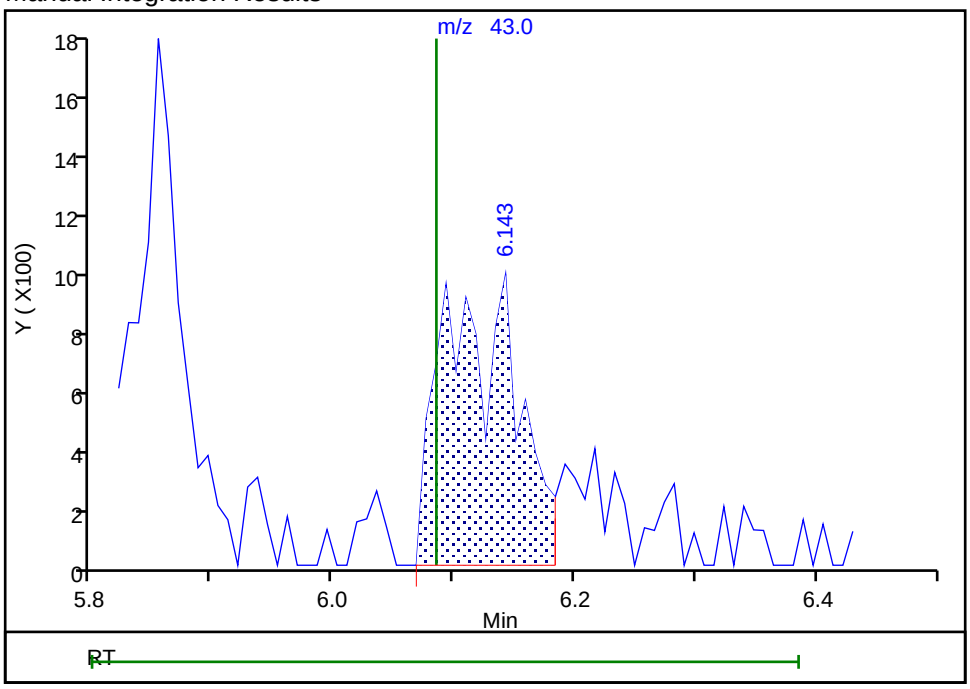
Not Detected
Expected RT: 6.09

Processing Integration Results



Manual Integration Results

RT: 6.14
Area: 4168
Amount: 0.938636
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

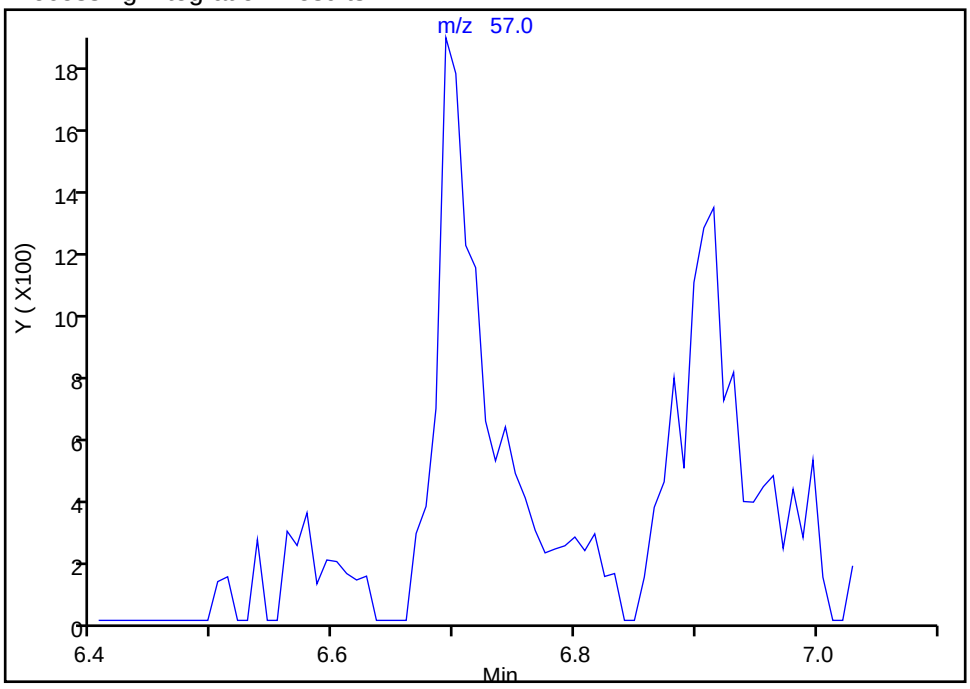
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

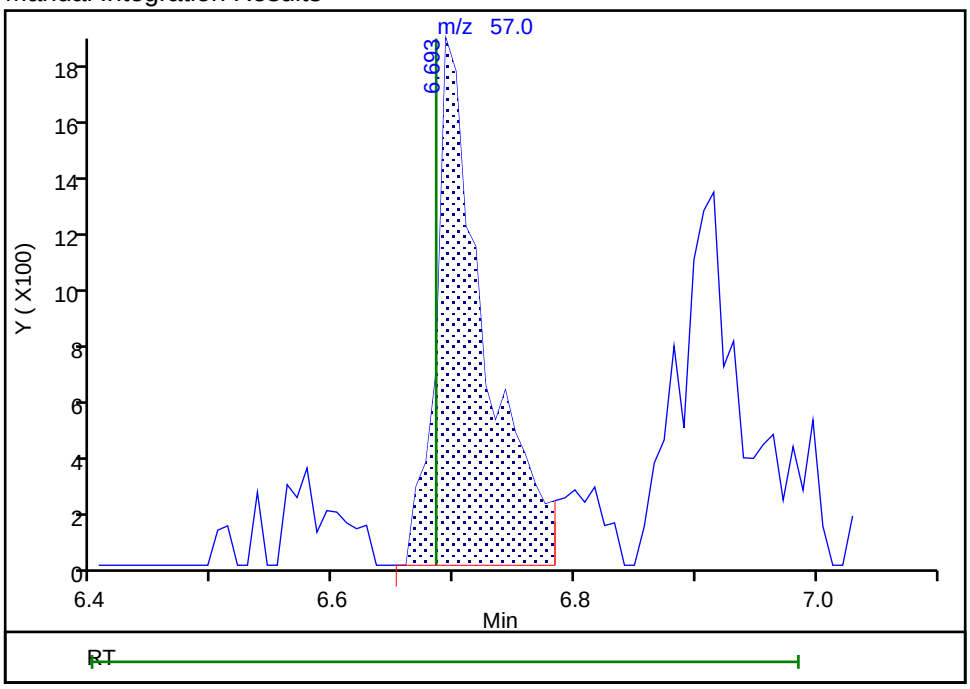
Not Detected
Expected RT: 6.69

Processing Integration Results



Manual Integration Results

RT: 6.69
Area: 5069
Amount: 18.530054
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

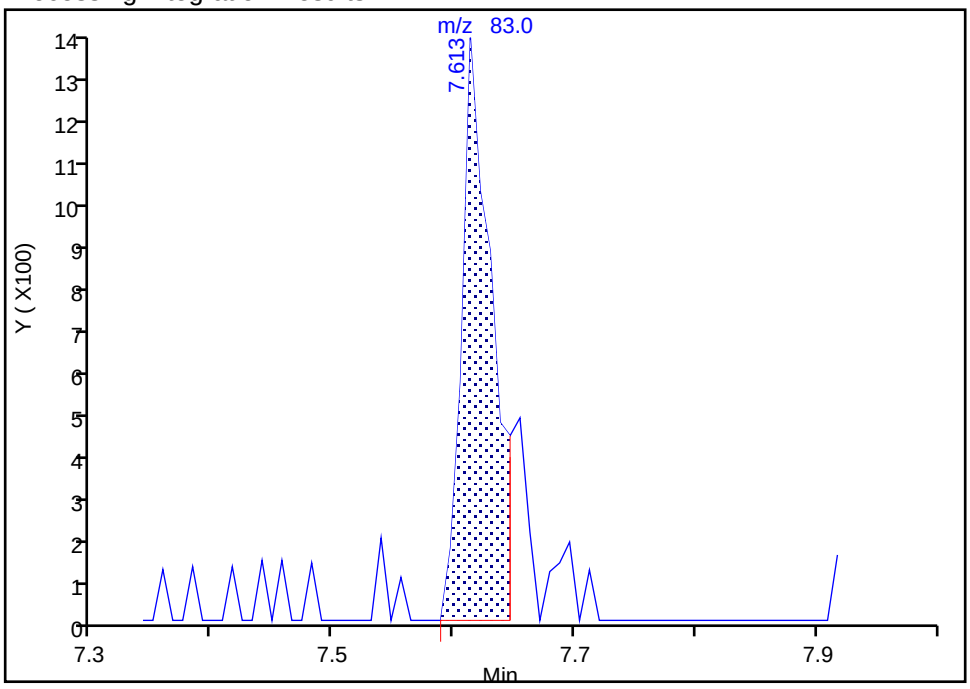
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

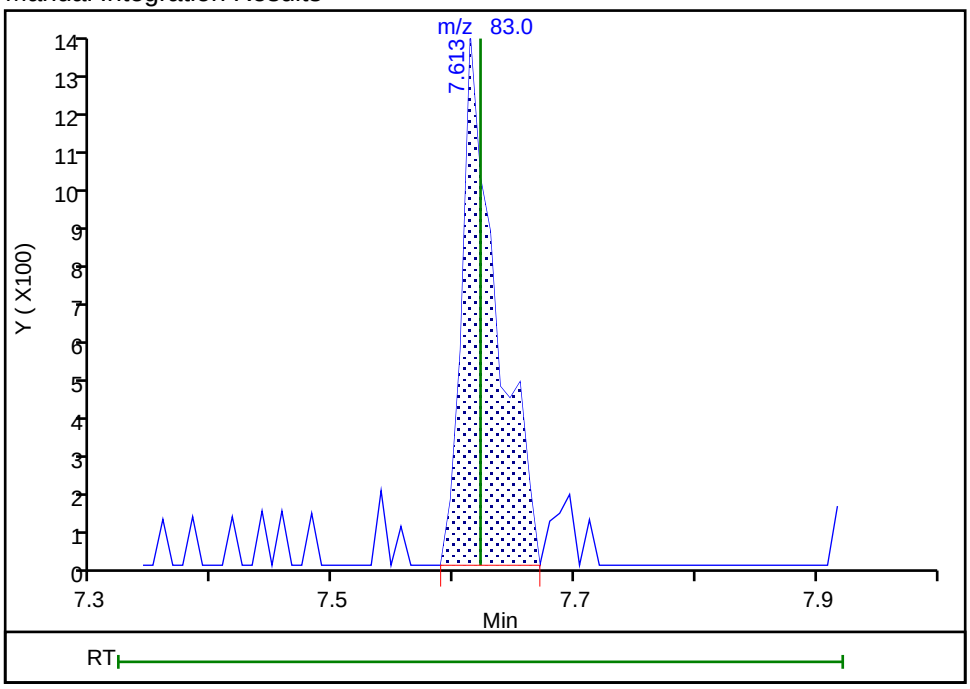
Processing Integration Results

RT: 7.61
Area: 2454
Amount: 0.842201
Amount Units: ug/l



Manual Integration Results

RT: 7.61
Area: 2798
Amount: 0.941731
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

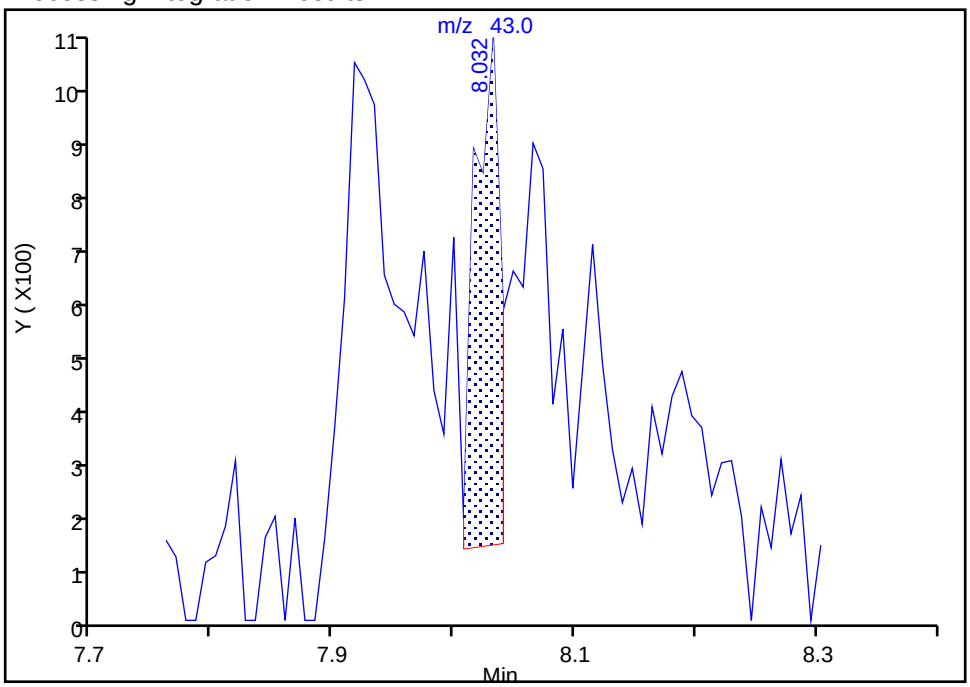
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 n-Butyl acetate, CAS: 123-86-4

Signal: 1

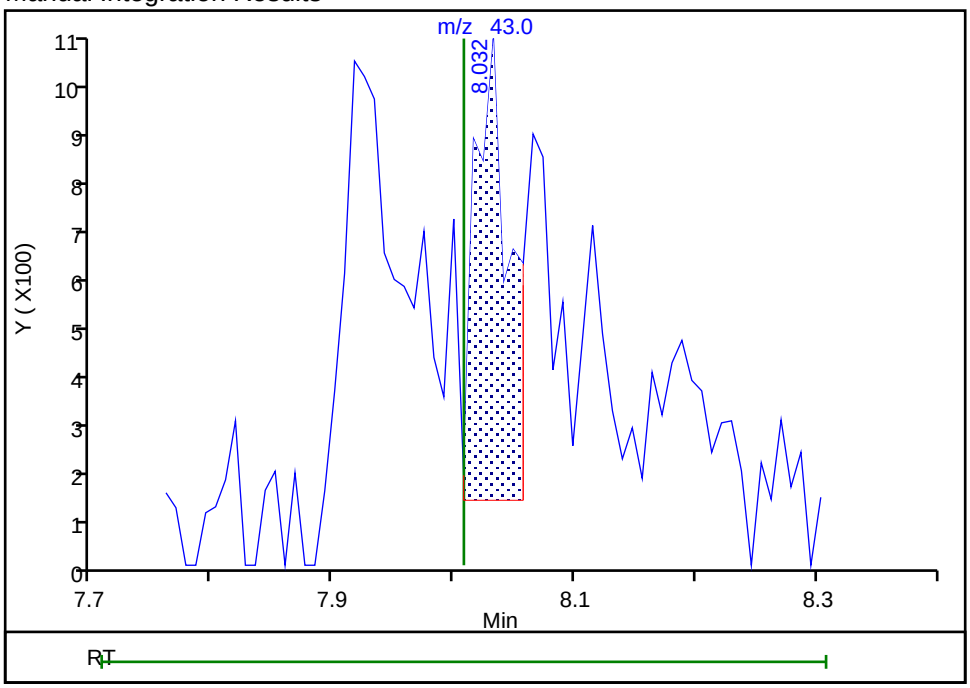
Processing Integration Results

RT: 8.03
Area: 1373
Amount: 0.278198
Amount Units: ug/l



Manual Integration Results

RT: 8.03
Area: 1864
Amount: 0.992171
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

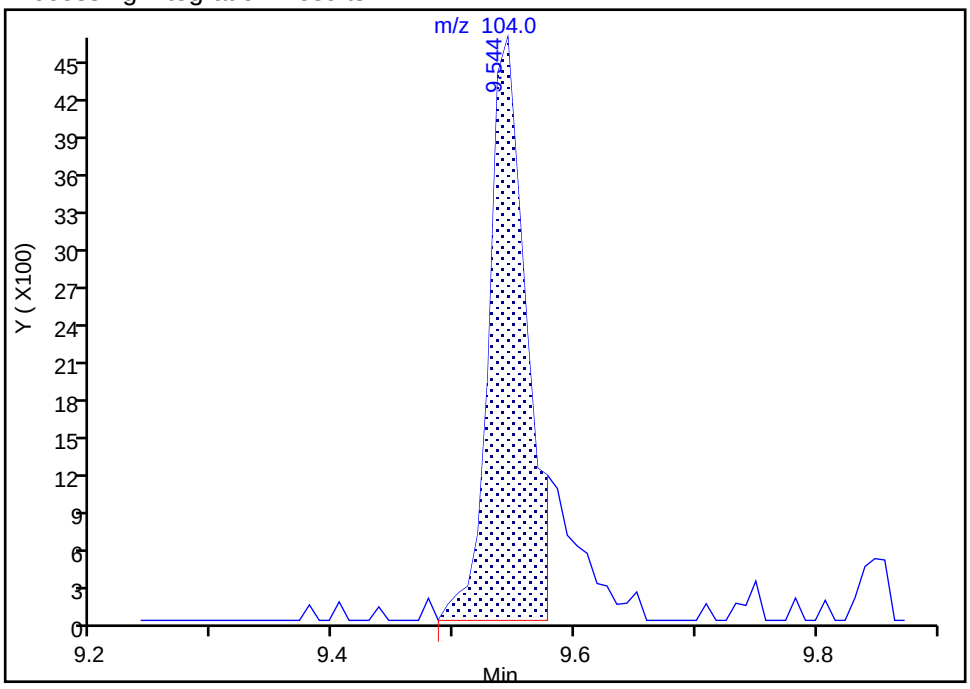
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 Styrene, CAS: 100-42-5

Signal: 1

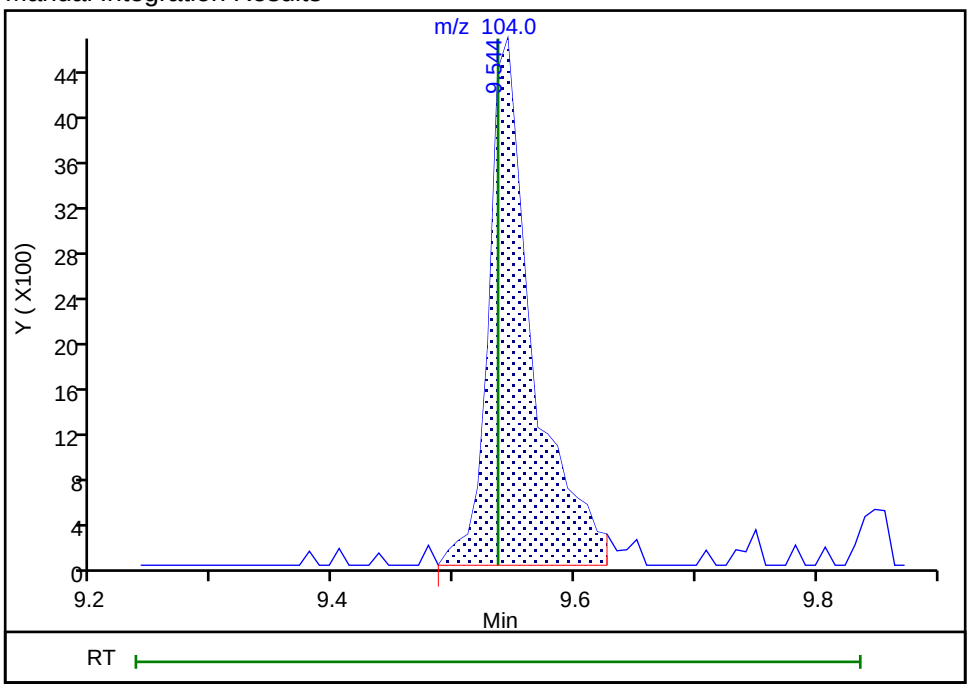
Processing Integration Results

RT: 9.54
Area: 9991
Amount: 0.822776
Amount Units: ug/l



Manual Integration Results

RT: 9.54
Area: 11669
Amount: 0.939329
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

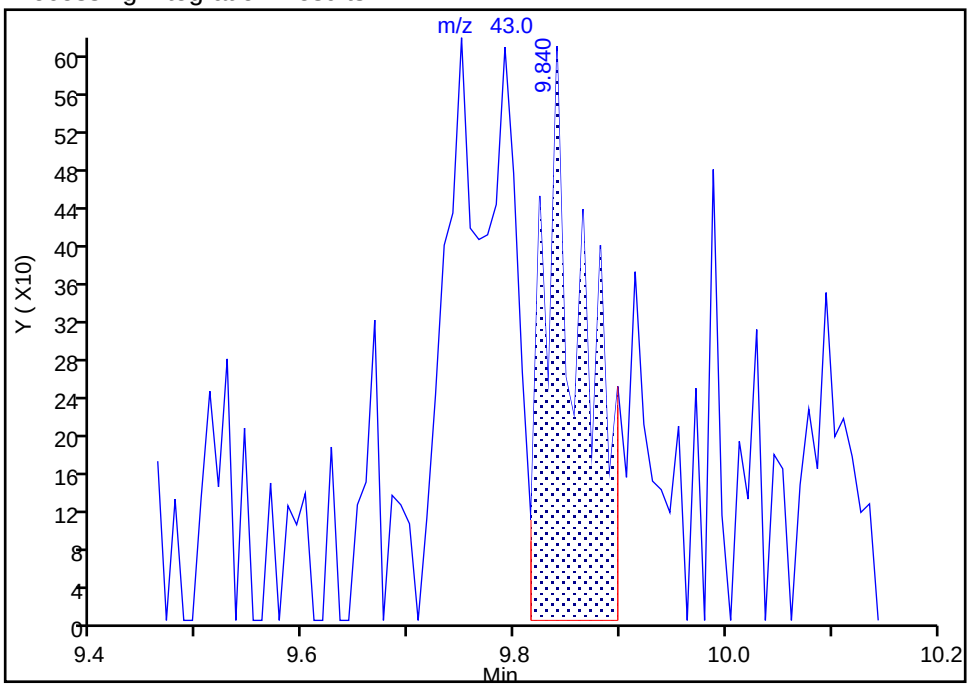
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

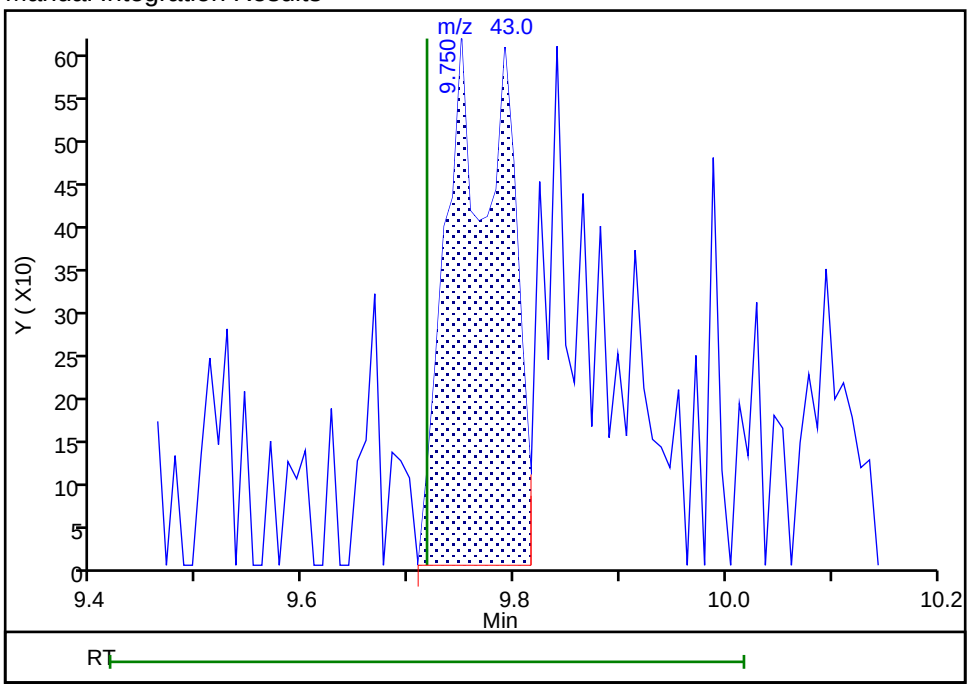
Processing Integration Results

RT: 9.84
Area: 1606
Amount: 0.253182
Amount Units: ug/l



Manual Integration Results

RT: 9.75
Area: 2413
Amount: 1.030421
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Jul-2018 09:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0075068-005
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:59 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:41:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.541	-0.016	86	14256	5.00	5.16	
2 Dichlorodifluoromethane	85	1.558	1.574	-0.016	98	34244	5.00	5.13	
3 Chloromethane	50	1.738	1.747	-0.009	99	40491	5.00	4.97	
4 Vinyl chloride	62	1.821	1.837	-0.016	97	42176	5.00	5.18	
5 Butadiene	54	1.829	1.837	-0.008	88	35790	5.00	4.83	
6 Bromomethane	94	2.108	2.116	-0.008	95	28760	5.00	5.11	
7 Chloroethane	64	2.166	2.182	-0.016	98	24353	5.00	5.03	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	83	55907	5.00	5.44	
10 Pentane	72	2.346	2.363	-0.017	98	10144	10.0	12.8	
9 Trichlorofluoromethane	101	2.346	2.371	-0.025	56	41932	5.00	5.56	
11 Ethanol	46	2.576	2.544	0.032	69	1593	200.0	159.3	M
12 Ethyl ether	59	2.544	2.552	-0.008	94	16040	5.00	4.77	
13 2-Methyl-1,3-butadiene	53	2.560	2.568	-0.008	94	19820	5.00	5.06	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	94	21483	5.00	5.36	
15 Acrolein	56	2.724	2.724	0.000	37	5038	20.0	20.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	94	25985	5.00	5.56	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	21834	5.00	5.03	
18 Acetone	43	2.831	2.848	-0.017	88	20985	25.0	25.8	
19 Iodomethane	142	2.905	2.913	-0.008	97	40210	5.00	5.14	
20 Isopropyl alcohol	45	2.922	2.946	-0.024	26	7433	50.0	50.5	
21 Carbon disulfide	76	2.938	2.955	-0.017	99	89893	5.00	5.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	92	42210	5.00	5.08	
24 Methyl acetate	43	3.070	3.078	-0.008	57	26571	10.0	10.6	
23 Cyclopentene	67	3.078	3.086	-0.008	90	56774	5.00	5.15	
25 Acetonitrile	41	3.135	3.144	-0.009	53	17289	50.0	39.9	
27 Methylene Chloride	84	3.185	3.193	-0.008	93	28558	5.00	5.35	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	125748	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.259	-0.009	91	12782	50.0	48.3	M
29 Methyl tert-butyl ether	73	3.341	3.349	-0.008	97	65514	5.00	5.10	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	24093	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	99	72019	50.0	50.2	
32 Hexane	43	3.513	3.522	-0.009	94	19556	5.00	5.00	
33 Isopropyl ether	45	3.719	3.727	-0.008	99	74480	5.00	5.07	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	47774	5.00	5.61	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	7751	10.0	9.41	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	90	20482	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	66745	5.00	4.85	
* 38 2-Butanone-d5	46	4.228	4.236	-0.008	0	142843	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.269	-0.016	65	8939	5.00	4.97	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	97	28363	5.00	5.26	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	84	9499	25.0	25.1	
42 Ethyl acetate	70	4.286	4.286	0.000	89	3962	10.0	10.5	
43 Methyl acrylate	55	4.351	4.351	0.000	96	12350	5.00	4.47	
44 Propionitrile	54	4.425	4.425	0.000	96	22168	50.0	47.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	85	13409	5.00	5.38	
46 Tetrahydrofuran	72	4.516	4.508	0.008	50	4446	10.0	9.41	
47 Methacrylonitrile	67	4.516	4.524	-0.008	91	75501	50.0	48.4	
48 Chloroform	83	4.549	4.549	0.000	97	39973	5.00	5.19	
49 Cyclohexane	84	4.680	4.688	-0.008	88	36899	5.00	5.14	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	54	34126	5.00	4.97	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	95222	50.0	50.9	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	29360	5.00	5.27	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	31815	5.00	5.24	
54 Isobutyl alcohol	43	4.976	4.992	-0.016	41	23852	125.0	112.1	
55 Benzene	78	5.033	5.033	0.000	96	97753	5.00	5.44	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	94533	50.0	47.3	
57 Isopropyl acetate	43	5.083	5.083	0.000	77	51248	5.00	4.66	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	73115	5.00	4.99	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	27555	5.00	4.97	
60 n-Heptane	57	5.173	5.181	-0.008	91	16247	5.00	4.83	
* 61 Fluorobenzene	96	5.313	5.321	-0.008	99	375144	50.0	50.0	
62 n-Butanol	56	5.682	5.650	0.032	25	3506	125.0	55.5	
63 Trichloroethene	95	5.666	5.674	-0.008	97	23075	5.00	4.99	
65 Ethyl acrylate	55	5.789	5.789	0.000	90	48819	5.00	4.86	
64 Methylcyclohexane	83	5.789	5.798	-0.009	89	40143	5.00	4.93	
66 1,2-Dichloropropane	63	5.954	5.962	-0.008	92	24865	5.00	5.19	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	10982	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	87	7979	10.0	9.03	
70 n-Propyl acetate	43	6.093	6.085	0.008	94	19557	5.00	4.40	
69 1,4-Dioxane	88	6.093	6.085	0.008	25	2029	100.0	96.8	
71 Dibromomethane	93	6.093	6.093	0.000	97	13049	5.00	4.78	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	27927	5.00	4.79	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	80	8574	5.00	4.10	
73 2-Nitropropane	41	6.570	6.570	0.000	88	8656	10.0	10.4	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	28499	100.0	99.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	31426	5.00	4.82	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	72940	25.0	25.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.981	-0.008	99	366322	50.0	51.7	
79 Toluene	91	7.055	7.055	0.000	92	95962	5.00	5.29	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	27107	5.00	4.99	
81 Ethyl methacrylate	69	7.441	7.433	0.008	86	20020	5.00	4.50	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	16220	5.00	5.37	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	95	23541	5.00	5.31	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	94	27661	5.00	4.84	
85 2-Hexanone	43	7.901	7.893	0.008	94	35757	25.0	23.3	
86 n-Butyl acetate	43	8.008	8.008	0.000	96	24106	5.00	5.21	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	19562	5.00	4.99	
88 Ethylene Dibromide	107	8.213	8.222	-0.009	100	17425	5.00	5.29	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	257261	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	58106	5.00	5.09	
91 Ethylbenzene	106	8.895	8.895	0.000	98	32213	5.00	4.88	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	95	22718	5.00	5.24	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	39690	5.00	5.05	
94 n-Butyl acrylate	73	9.495	9.487	0.008	46	12223	5.00	4.57	
95 o-Xylene	106	9.503	9.503	0.000	94	40346	5.00	4.96	
96 Styrene	104	9.536	9.536	0.000	96	59744	5.00	4.73	
97 Amyl acetate (mixed isomer	43	9.725	9.717	0.008	92	25124	5.00	4.26	
98 Bromoform	173	9.742	9.742	0.000	96	12599	5.00	5.02	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	102121	5.00	5.23	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	106636	50.0	51.3	
101 Bromobenzene	156	10.152	10.144	0.008	98	25405	5.00	4.73	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	26083	5.00	5.15	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	127766	5.00	5.18	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	6415	5.00	4.49	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	72	4806	5.00	4.72	
106 2-Chlorotoluene	91	10.292	10.292	0.000	93	87223	5.00	5.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	87	101134	5.00	4.98	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	89710	5.00	5.01	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	77680	5.00	5.06	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	23847	5.00	4.30	
111 tert-Butylbenzene	119	10.588	10.588	0.000	96	69427	5.00	4.81	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	96	92231	5.00	5.06	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	115270	5.00	5.18	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	92127	5.00	4.90	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	54210	5.00	5.14	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	155550	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	96	56793	5.00	5.23	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	97482	5.00	5.04	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	45280	5.00	4.68	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	93	102646	5.00	5.27	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	58887	5.00	5.09	
121 n-Butylbenzene	92	11.122	11.114	0.008	97	52880	5.00	4.93	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	54281	5.00	5.14	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	87056	5.00	4.82	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	4759	5.00	5.10	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	42265	5.00	5.14	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	36082	5.00	4.93	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	17800	5.00	5.13	
128 Naphthalene	128	12.314	12.314	0.000	99	71630	5.00	4.63	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	93	33688	5.00	4.80	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.3	
S 131 Xylenes, Total	100				0		10.0	10.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D

Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6 Operator ID:

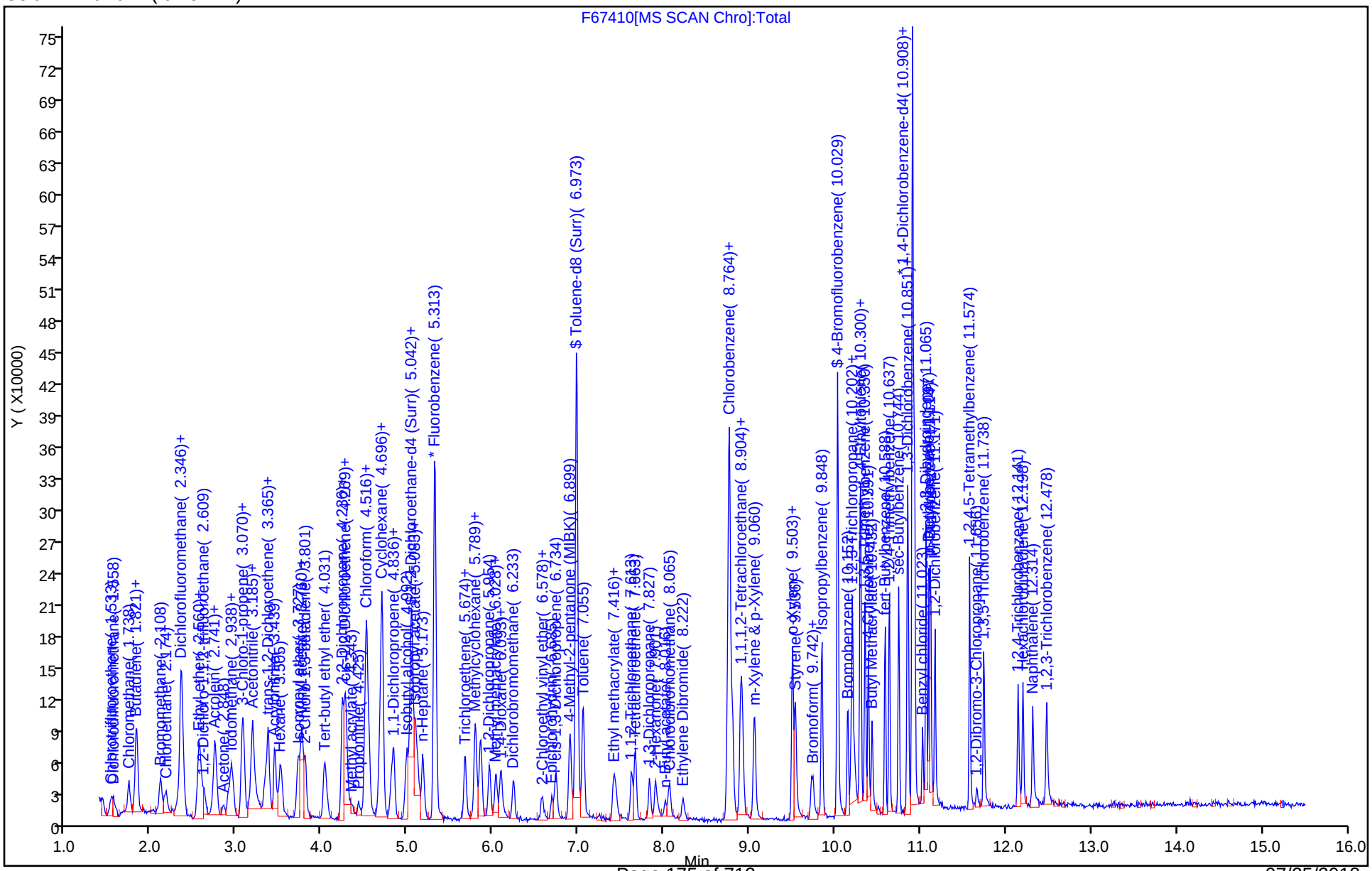
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

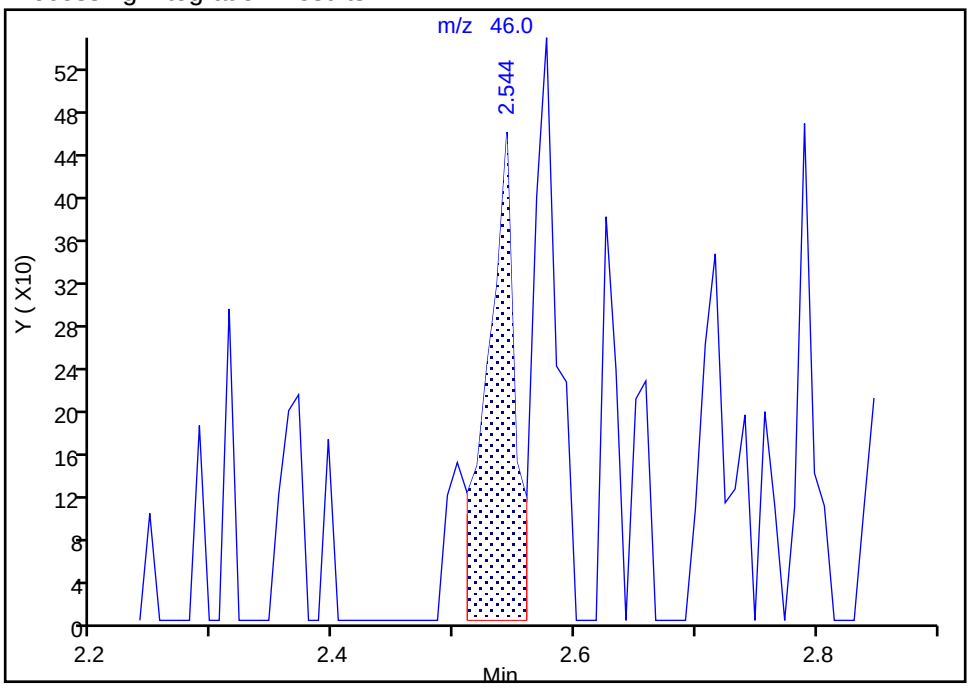
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

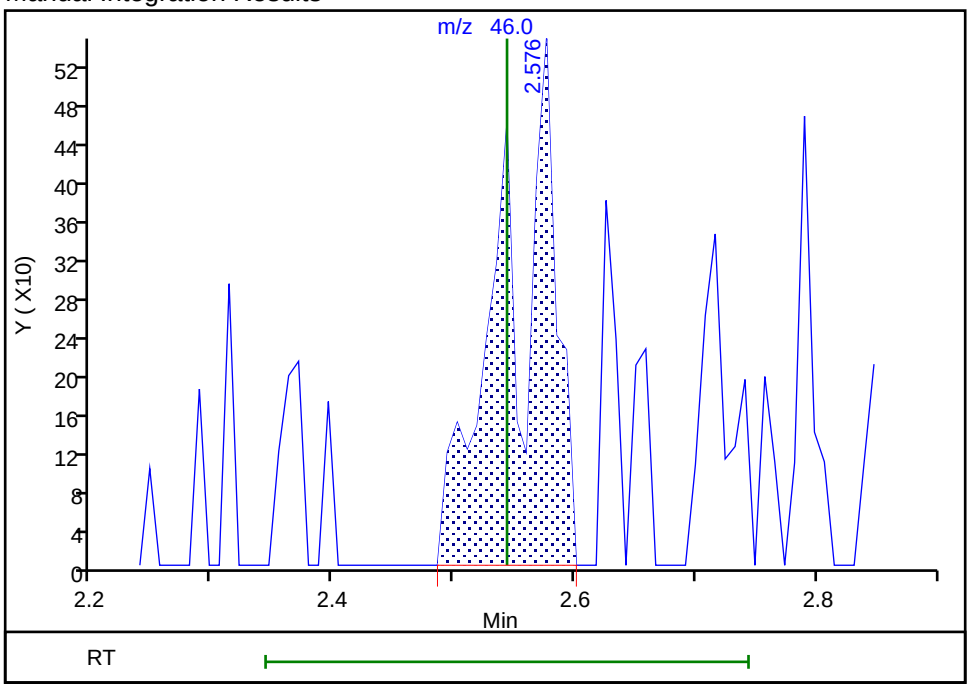
Processing Integration Results

RT: 2.54
Area: 764
Amount: 107.3294
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 1593
Amount: 159.3053
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:48:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

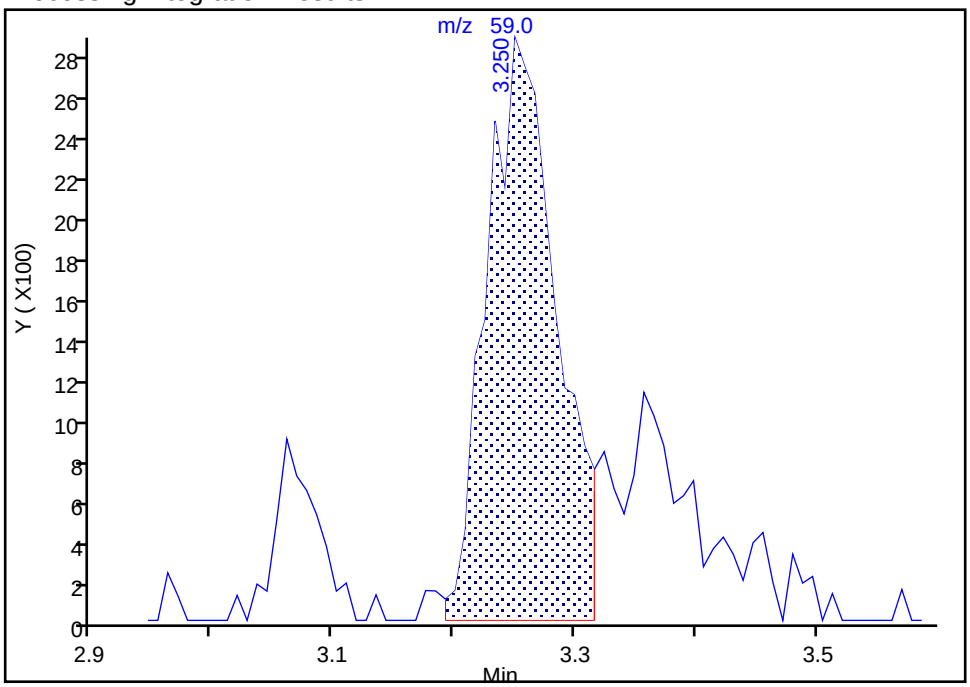
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

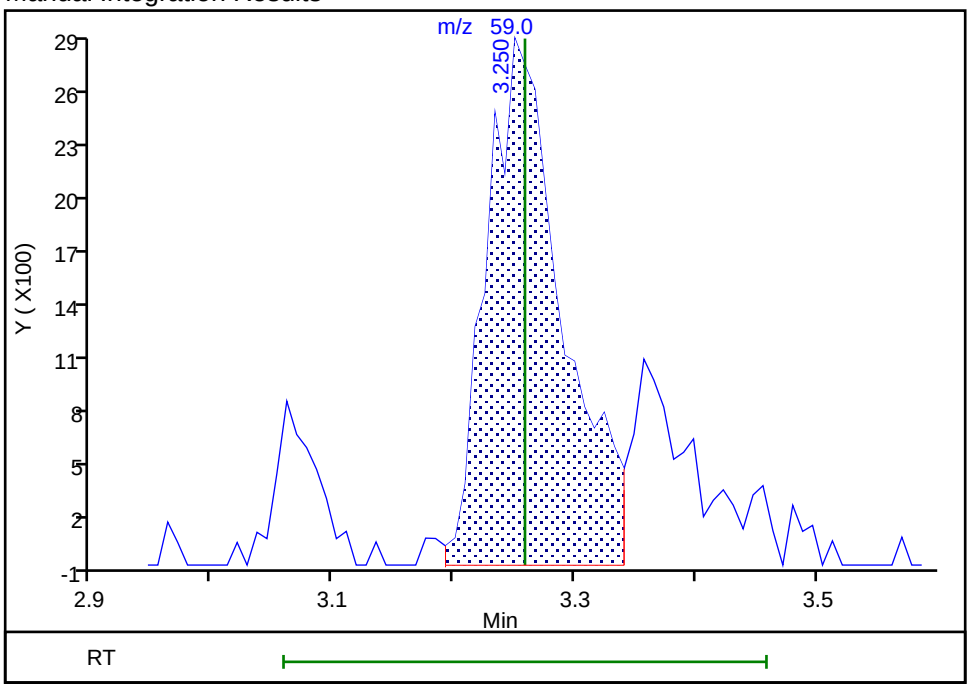
Processing Integration Results

RT: 3.25
Area: 11778
Amount: 45.112750
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 12782
Amount: 48.338693
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:49:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Jul-2018 09:24:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0075068-006
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:01:17 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 08-Jul-2018 18:59:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	55175	20.0	19.5	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	129388	20.0	19.0	
3 Chloromethane	50	1.747	1.747	0.000	98	160414	20.0	19.2	
5 Butadiene	54	1.837	1.837	0.000	93	142283	20.0	18.8	
4 Vinyl chloride	62	1.837	1.837	0.000	97	162796	20.0	19.5	
6 Bromomethane	94	2.116	2.116	0.000	98	110997	20.0	19.3	
7 Chloroethane	64	2.182	2.182	0.000	99	95876	20.0	19.4	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	222984	20.0	21.2	
10 Pentane	72	2.363	2.363	0.000	96	34097	40.0	42.9	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	56	152955	20.0	19.8	
11 Ethanol	46	2.544	2.544	0.000	77	8161	800.0	814.9	
12 Ethyl ether	59	2.552	2.552	0.000	94	71323	20.0	20.7	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	81333	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	94	82854	20.0	20.2	
15 Acrolein	56	2.724	2.724	0.000	91	10465	40.0	42.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	97594	20.0	20.4	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	87779	20.0	19.8	
18 Acetone	43	2.848	2.848	0.000	88	87955	100.0	100.9	
19 Iodomethane	142	2.913	2.913	0.000	98	161807	20.0	20.2	
20 Isopropyl alcohol	45	2.946	2.946	0.000	27	29403	200.0	199.6	
21 Carbon disulfide	76	2.955	2.955	0.000	99	345818	20.0	19.5	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	175027	20.0	20.6	
24 Methyl acetate	43	3.078	3.078	0.000	98	107177	40.0	41.7	
23 Cyclopentene	67	3.086	3.086	0.000	95	231916	20.0	20.6	
25 Acetonitrile	41	3.144	3.144	0.000	95	108682	200.0	250.4	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	125933	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	113133	20.0	20.7	
28 2-Methyl-2-propanol	59	3.259	3.259	0.000	91	58208	200.0	219.8	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	273962	20.0	20.8	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	101552	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	96	317916	200.0	216.8	
32 Hexane	43	3.522	3.522	0.000	91	77335	20.0	19.3	
33 Isopropyl ether	45	3.727	3.727	0.000	95	321190	20.0	21.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	182293	20.0	20.9	
35 Vinyl acetate	86	3.776	3.776	0.000	99	36794	40.0	43.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	89837	20.0	20.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	89	299751	20.0	21.3	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	152866	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	37516	20.0	20.4	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	116397	20.0	21.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	15347	40.0	38.0	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	42012	100.0	103.7	
43 Methyl acrylate	55	4.351	4.351	0.000	99	63052	20.0	21.6	
44 Propionitrile	54	4.425	4.425	0.000	98	108891	200.0	232.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	54045	20.0	21.2	
46 Tetrahydrofuran	72	4.508	4.508	0.000	51	20859	40.0	45.4	
47 Methacrylonitrile	67	4.524	4.524	0.000	90	334922	200.0	210.1	
48 Chloroform	83	4.549	4.549	0.000	98	171632	20.0	21.8	
49 Cyclohexane	84	4.688	4.688	0.000	90	146994	20.0	20.0	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	97	138900	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	97066	50.0	50.8	
52 Carbon tetrachloride	117	4.812	4.812	0.000	99	114190	20.0	20.0	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	98	126530	20.0	20.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	111808	500.0	524.7	
55 Benzene	78	5.033	5.033	0.000	95	402110	20.0	21.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	97955	50.0	48.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	228711	20.0	20.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	92	312799	20.0	20.9	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	112597	20.0	19.8	
60 n-Heptane	57	5.181	5.181	0.000	89	68281	20.0	19.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	383589	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	80	26985	500.0	423.7	
63 Trichloroethene	95	5.674	5.674	0.000	99	95905	20.0	20.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	96	215422	20.0	21.0	
64 Methylcyclohexane	83	5.798	5.798	0.000	88	168517	20.0	20.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	95	101451	20.0	20.7	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	12235	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	87	39048	40.0	39.6	
69 1,4-Dioxane	88	6.085	6.085	0.000	25	10773	400.0	461.3	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	89611	20.0	19.7	
71 Dibromomethane	93	6.093	6.093	0.000	96	57505	20.0	20.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	121094	20.0	20.3	
73 2-Nitropropane	41	6.570	6.570	0.000	81	30596	40.0	36.0	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	42627	20.0	19.9	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	134393	400.0	439.0	a
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	142629	20.0	20.7	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	344643	100.0	110.2	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	375578	50.0	50.1	
79 Toluene	91	7.055	7.055	0.000	93	409728	20.0	21.3	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	113666	20.0	19.8	
81 Ethyl methacrylate	69	7.433	7.433	0.000	88	98286	20.0	20.9	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	68341	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	96096	20.0	20.5	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	128841	20.0	21.3	
85 2-Hexanone	43	7.893	7.893	0.000	96	189724	100.0	102.8	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	107797	20.0	20.0	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	86190	20.0	20.8	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	72287	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	272089	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	254215	20.0	21.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	147681	20.0	21.2	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	95	95501	20.0	20.8	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	179024	20.0	21.5	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	56357	20.0	18.1	
95 o-Xylene	106	9.503	9.503	0.000	94	184452	20.0	21.4	
96 Styrene	104	9.536	9.536	0.000	96	293795	20.0	22.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	129234	20.0	19.6	
98 Bromoform	173	9.742	9.742	0.000	97	55269	20.0	20.8	
99 Isopropylbenzene	105	9.849	9.849	0.000	96	462092	20.0	22.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	111206	50.0	50.6	
101 Bromobenzene	156	10.144	10.144	0.000	98	113372	20.0	21.6	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	107861	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	557431	20.0	23.1	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	96	28590	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	23323	20.0	21.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	378178	20.0	22.3	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	468686	20.0	23.6	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	399827	20.0	22.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	338320	20.0	22.5	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	119948	20.0	20.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	307464	20.0	21.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	411165	20.0	23.1	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	491501	20.0	22.6	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	422281	20.0	23.0	a
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	229685	20.0	22.3	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	152088	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	239534	20.0	22.5	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	429601	20.0	22.7	
118 Benzyl chloride	91	11.024	11.024	0.000	99	213768	20.0	22.6	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	442460	20.0	23.3	
120 p-Diethylbenzene	119	11.098	11.098	0.000	94	260337	20.0	23.0	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	231171	20.0	22.1	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	96	230380	20.0	22.3	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	415827	20.0	23.6	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	19141	20.0	21.0	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	174592	20.0	21.7	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	157425	20.0	22.0	
127 Hexachlorobutadiene	225	12.199	12.199	0.000	95	67593	20.0	19.9	
128 Naphthalene	128	12.314	12.314	0.000	99	340468	20.0	22.5	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	149191	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.8	
S 131 Xylenes, Total	100				0		40.0	43.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	2.00	Units: uL	
MIX I Hi_00095	Amount Added:	2.00	Units: uL	
Ethanol mix_00017	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	2.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D

Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6 Operator ID:

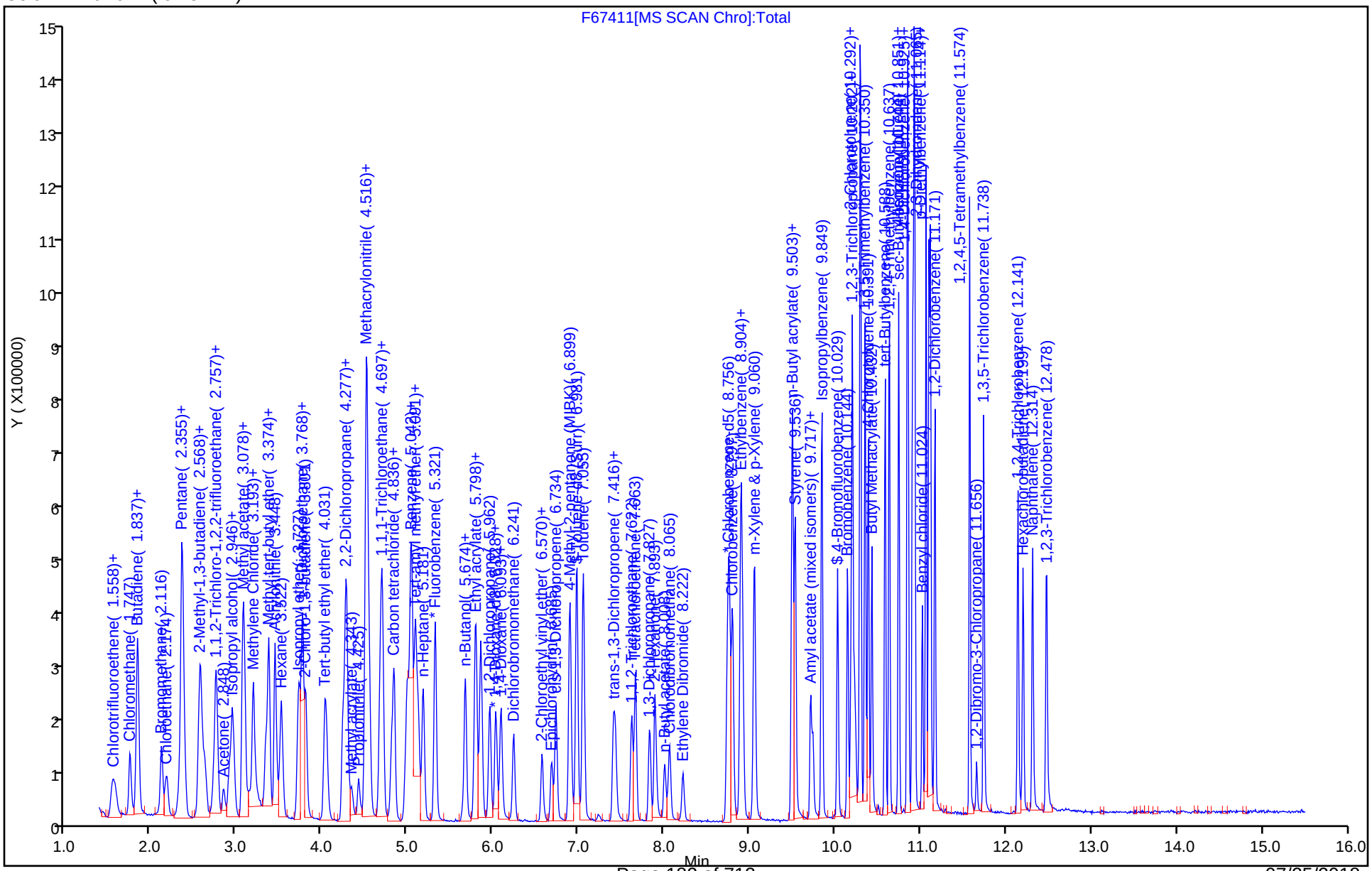
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

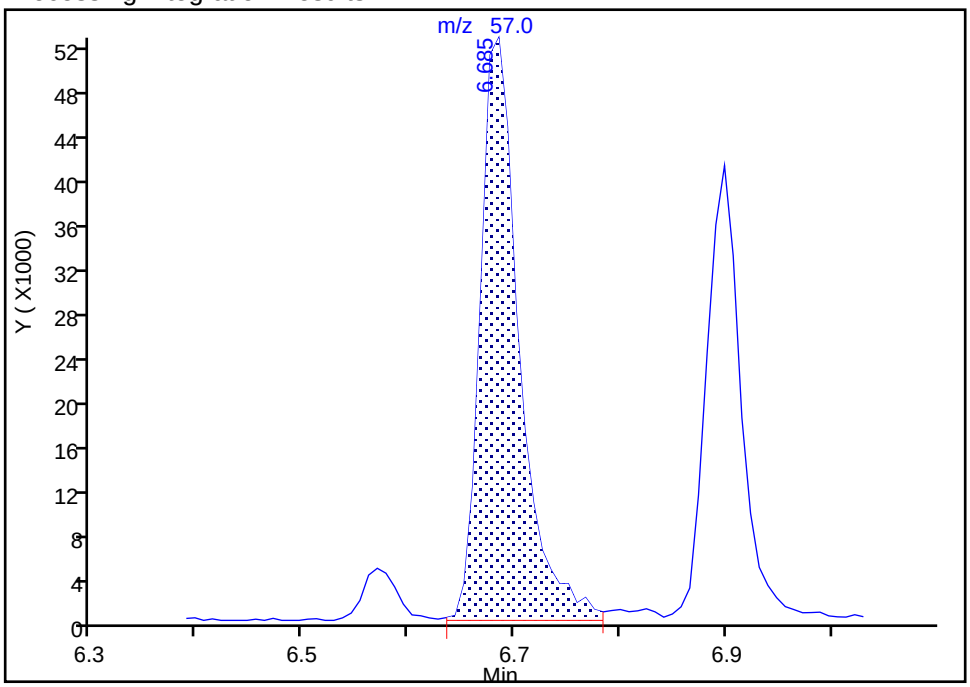
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

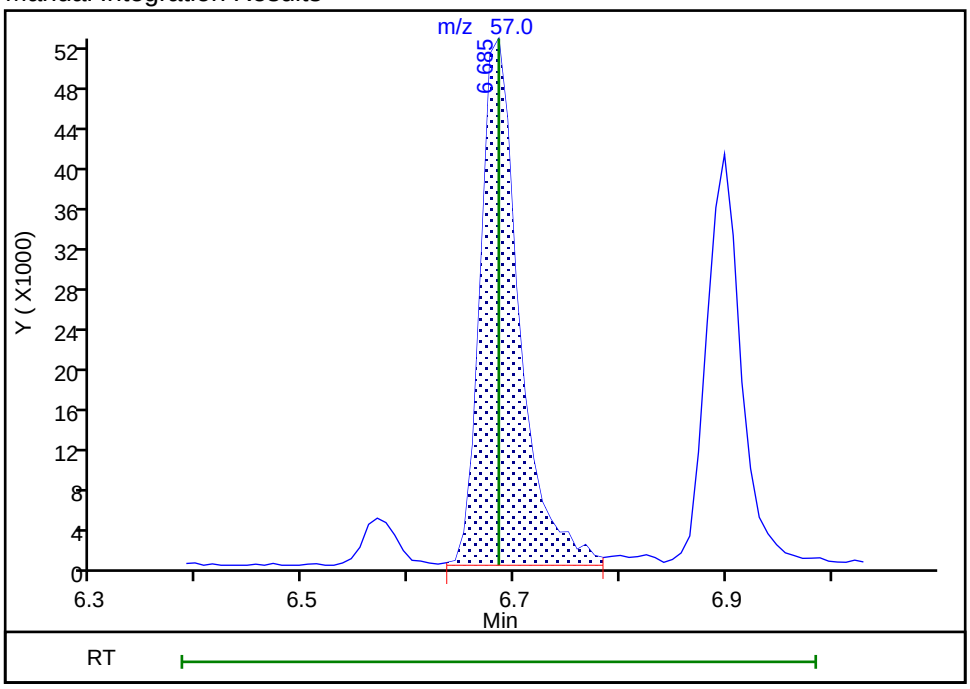
Processing Integration Results

RT: 6.69
Area: 134393
Amount: 546.8560
Amount Units: ug/l



Manual Integration Results

RT: 6.69
Area: 134393
Amount: 439.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:16:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

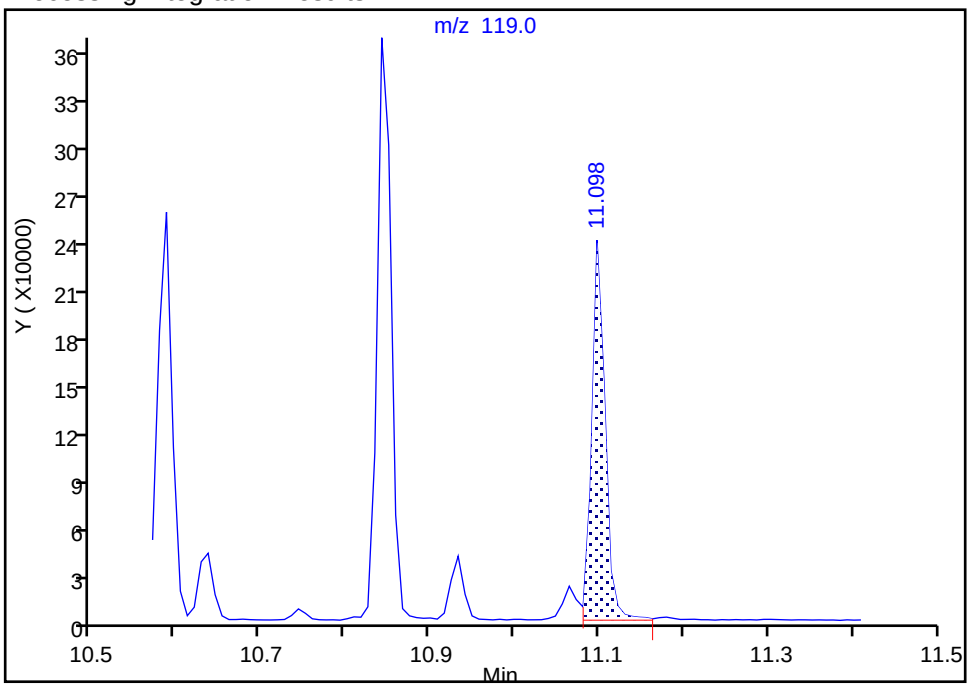
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Signal: 1

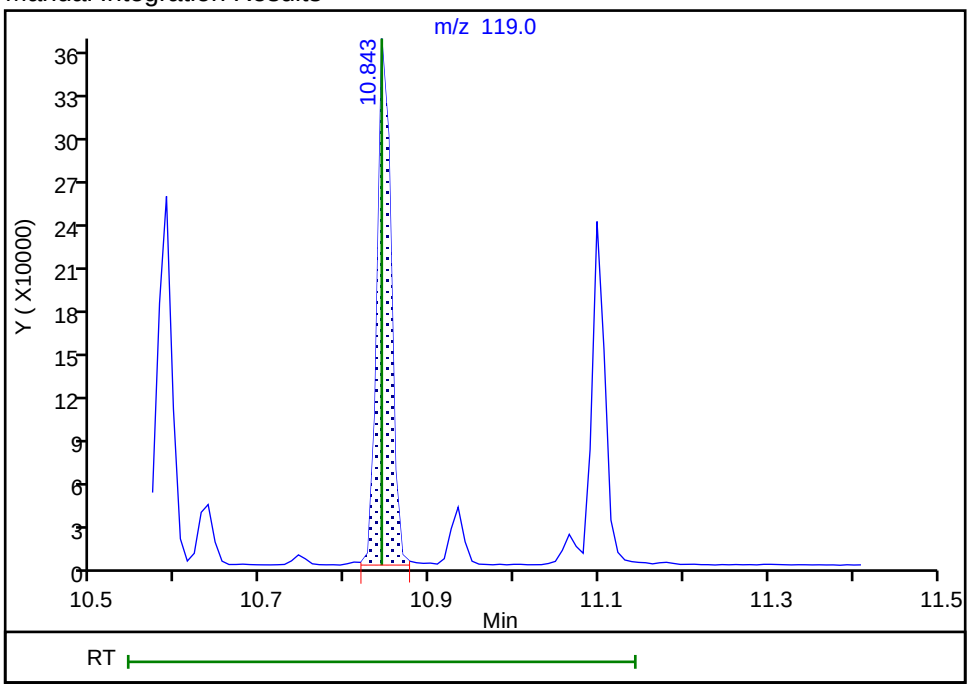
Processing Integration Results

RT: 11.10
Area: 260337
Amount: 22.700136
Amount Units: ug/l



Manual Integration Results

RT: 10.84
Area: 422281
Amount: 22.982314
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:17:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Jul-2018 09:47:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0075068-007
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:18:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	88	141971	50.0	49.0	
2 Dichlorodifluoromethane	85	1.565	1.574	-0.009	99	322297	50.0	46.1	
3 Chloromethane	50	1.738	1.747	-0.009	98	402640	50.0	47.1	
4 Vinyl chloride	62	1.828	1.837	-0.009	98	402833	50.0	47.2	
5 Butadiene	54	1.828	1.837	-0.009	94	362789	50.0	46.7	
6 Bromomethane	94	2.108	2.116	-0.008	98	268251	50.0	45.5	
7 Chloroethane	64	2.165	2.182	-0.017	100	240980	50.0	47.5	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	99	559613	50.0	52.0	
10 Pentane	72	2.354	2.363	-0.009	97	86045	100.0	99.7	
9 Trichlorofluoromethane	101	2.363	2.371	-0.009	98	380312	50.0	48.1	
11 Ethanol	46	2.551	2.544	0.007	68	21379	2000.0	1967.3	
12 Ethyl ether	59	2.543	2.552	-0.009	95	176623	50.0	50.1	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	195604	50.0	47.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	95	201129	50.0	47.9	
15 Acrolein	56	2.716	2.724	-0.008	93	24549	100.0	92.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.740	2.749	-0.009	97	224849	50.0	45.9	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	212440	50.0	46.7	
18 Acetone	43	2.839	2.848	-0.009	89	253164	250.0	283.0	
19 Iodomethane	142	2.905	2.913	-0.008	96	400327	50.0	48.8	
20 Isopropyl alcohol	45	2.929	2.946	-0.017	26	73566	500.0	460.2	
21 Carbon disulfide	76	2.946	2.955	-0.009	99	853831	50.0	46.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	424625	50.0	48.8	
24 Methyl acetate	43	3.069	3.078	-0.009	100	265412	100.0	100.7	
23 Cyclopentene	67	3.077	3.086	-0.009	95	585122	50.0	50.6	
25 Acetonitrile	41	3.135	3.144	-0.009	99	267502	500.0	568.0	a
27 Methylene Chloride	84	3.184	3.193	-0.009	91	266928	50.0	47.7	
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	136658	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.266	3.259	0.007	94	138256	500.0	481.1	
29 Methyl tert-butyl ether	73	3.340	3.349	-0.009	97	651186	50.0	48.3	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	93	251677	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.448	-0.009	95	797034	500.0	530.3	
32 Hexane	43	3.513	3.522	-0.009	91	190970	50.0	46.6	
33 Isopropyl ether	45	3.718	3.727	-0.009	96	778104	50.0	50.5	
34 1,1-Dichloroethane	63	3.759	3.760	-0.001	99	431590	50.0	48.3	
35 Vinyl acetate	86	3.759	3.776	-0.017	100	90865	100.0	105.2	
36 2-Chloro-1,3-butadiene	88	3.800	3.809	-0.009	89	219242	50.0	49.5	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	730944	50.0	50.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	156958	250.0	250.0	
39 2,2-Dichloropropane	97	4.252	4.269	-0.017	94	88442	50.0	46.9	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	98	281551	50.0	49.8	
41 2-Butanone (MEK)	72	4.285	4.286	-0.001	96	101840	250.0	244.8	
42 Ethyl acetate	70	4.285	4.286	-0.001	97	39552	100.0	95.3	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	148390	50.0	48.7	
44 Propionitrile	54	4.417	4.425	-0.008	99	280840	500.0	552.3	
45 Chlorobromomethane	128	4.499	4.499	0.000	89	129441	50.0	49.6	
46 Tetrahydrofuran	72	4.507	4.508	-0.001	55	45338	100.0	97.4	
47 Methacrylonitrile	67	4.515	4.524	-0.009	90	837786	500.0	512.9	
48 Chloroform	83	4.548	4.549	-0.001	99	405786	50.0	50.3	
49 Cyclohexane	84	4.680	4.688	-0.008	90	371058	50.0	49.3	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	98	347317	50.0	48.3	
$ 51 Dibromofluoromethane (Surr	113	4.704	4.705	-0.001	97	98684	50.0	50.4	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	288500	50.0	49.4	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	314753	50.0	49.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	289826	1250.0	1253.4	
55 Benzene	78	5.033	5.033	0.000	96	973646	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.049	5.050	-0.001	0	100245	50.0	47.9	
57 Isopropyl acetate	43	5.082	5.083	-0.001	98	598652	50.0	51.9	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	780186	50.0	50.8	
59 1,2-Dichloroethane	62	5.123	5.124	-0.001	96	271491	50.0	46.7	
60 n-Heptane	57	5.181	5.181	0.000	89	176244	50.0	50.0	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	393168	50.0	50.0	
62 n-Butanol	56	5.633	5.650	-0.017	86	74557	1250.0	1066.2	
63 Trichloroethene	95	5.666	5.674	-0.008	98	232897	50.0	48.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	551536	50.0	52.4	
64 Methylcyclohexane	83	5.789	5.798	-0.009	88	427028	50.0	50.0	
66 1,2-Dichloropropane	63	5.953	5.962	-0.009	94	247397	50.0	49.3	
* 67 1,4-Dioxane-d8	96	6.027	6.019	0.008	0	13144	1000.0	1000.0	
68 Methyl methacrylate	100	6.027	6.028	-0.001	87	100300	100.0	97.7	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	232351	50.0	49.9	
69 1,4-Dioxane	88	6.077	6.085	-0.008	27	26419	1000.0	1053.0	
71 Dibromomethane	93	6.093	6.093	0.000	94	135812	50.0	47.5	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	300964	50.0	49.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	78	117559	50.0	53.6	
73 2-Nitropropane	41	6.570	6.570	0.000	80	76847	100.0	88.3	
75 Epichlorohydrin	57	6.676	6.685	-0.009	99	346568	1000.0	1102.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	357305	50.0	49.7	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.899	-0.009	95	900558	250.0	280.5	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	394381	50.0	50.4	
79 Toluene	91	7.054	7.055	-0.001	93	1006532	50.0	50.3	
80 trans-1,3-Dichloropropene	75	7.399	7.408	-0.009	96	289370	50.0	48.2	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	263543	50.0	53.7	
82 1,1,2-Trichloroethane	83	7.621	7.622	-0.001	97	161457	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.662	7.663	-0.001	96	236993	50.0	48.4	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	316304	50.0	50.1	
85 2-Hexanone	43	7.892	7.893	-0.001	95	495888	250.0	256.8	
86 n-Butyl acetate	43	7.999	8.008	-0.009	98	278220	50.0	48.5	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	209847	50.0	48.5	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	98	180408	50.0	49.6	
* 89 Chlorobenzene-d5	117	8.763	8.764	-0.001	84	283921	50.0	50.0	
90 Chlorobenzene	112	8.796	8.797	-0.001	95	627990	50.0	49.8	
91 Ethylbenzene	106	8.895	8.895	0.000	98	363682	50.0	49.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	237090	50.0	49.6	
93 m-Xylene & p-Xylene	106	9.051	9.060	-0.009	0	436228	50.0	50.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	168864	50.0	50.9	
95 o-Xylene	106	9.503	9.503	0.000	95	461789	50.0	51.5	
96 Styrene	104	9.536	9.536	0.000	96	723592	50.0	51.9	
97 Amyl acetate (mixed isomer	43	9.708	9.717	-0.009	91	361611	50.0	49.5	
98 Bromoform	173	9.741	9.742	-0.001	97	134241	50.0	48.4	
99 Isopropylbenzene	105	9.848	9.849	-0.001	95	1150898	50.0	53.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	114885	50.0	50.1	
101 Bromobenzene	156	10.144	10.144	0.000	98	280301	50.0	49.2	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	258315	50.0	48.1	
103 N-Propylbenzene	91	10.201	10.202	-0.001	100	1357000	50.0	51.9	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	97	73193	50.0	48.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	81	57460	50.0	46.9	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	927450	50.0	50.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	1143475	50.0	53.1	
108 1,3,5-Trimethylbenzene	105	10.349	10.350	-0.001	94	967312	50.0	50.9	
109 4-Chlorotoluene	91	10.390	10.391	-0.001	97	819475	50.0	50.3	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	348236	50.0	53.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	794229	50.0	51.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	1017023	50.0	52.6	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	1229308	50.0	52.1	
114 4-Isopropyltoluene	119	10.842	10.843	-0.001	98	1052591	50.0	52.8	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	96	555469	50.0	49.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	164965	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	575508	50.0	49.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	1072303	50.0	52.2	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	548852	50.0	53.5	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	94	1083183	50.0	52.5	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	642482	50.0	52.4	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	574560	50.0	50.5	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	571740	50.0	51.1	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	1031262	50.0	53.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	46130	50.0	46.6	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	447000	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	410186	50.0	52.9	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	176091	50.0	47.8	
128 Naphthalene	128	12.313	12.314	-0.001	99	924647	50.0	56.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	378094	50.0	50.8	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.8	
S 131 Xylenes, Total	100				0		100.0	101.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
GAS Hi_00262	Amount Added:	5.00	Units: uL	
MIX I Hi_00095	Amount Added:	5.00	Units: uL	
Ethanol mix_00017	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	5.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:18:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D

Injection Date: 08-Jul-2018 09:47:30 Instrument ID: CVOAMS6 Operator ID:

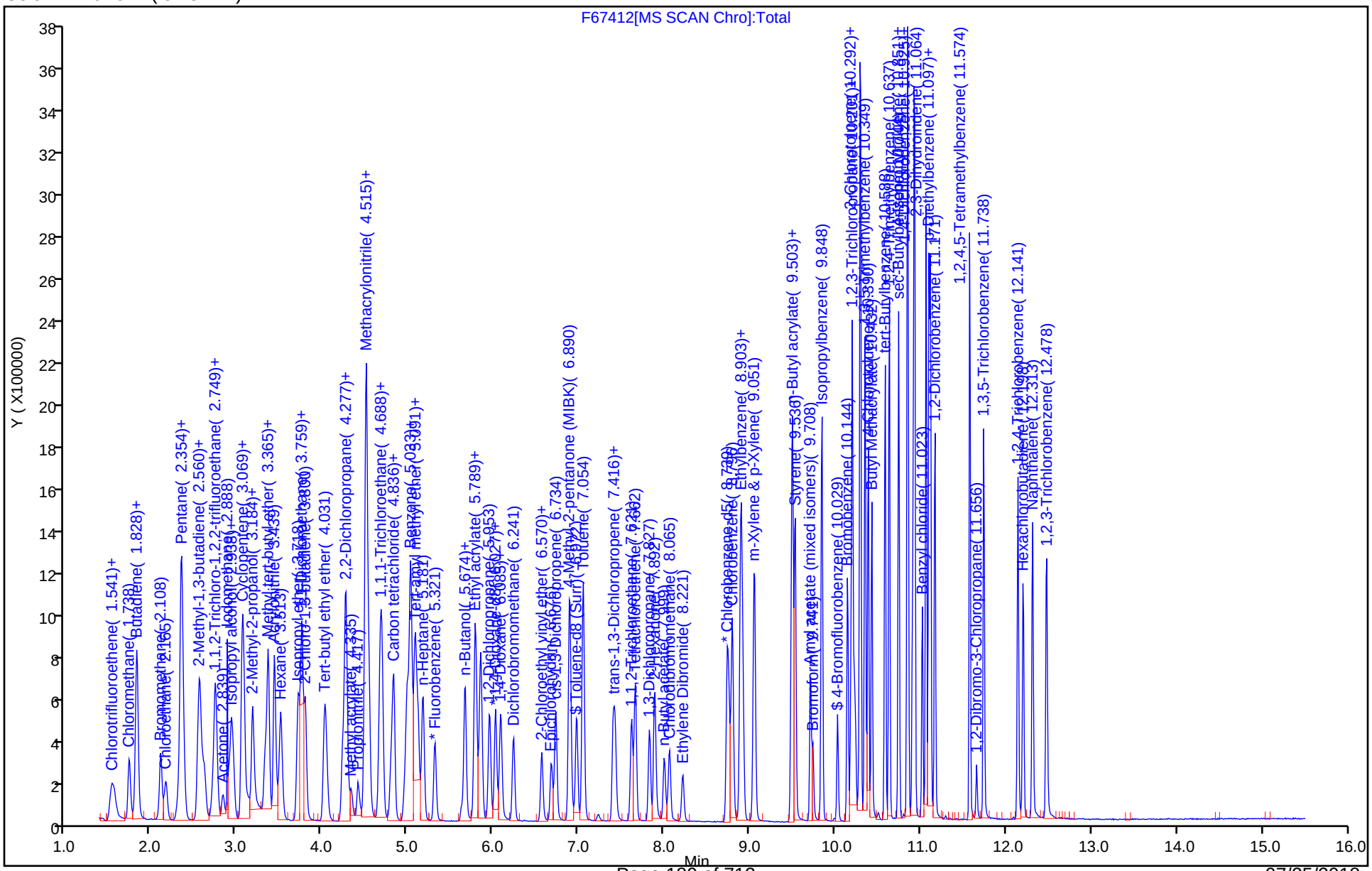
Lims ID: STD50 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

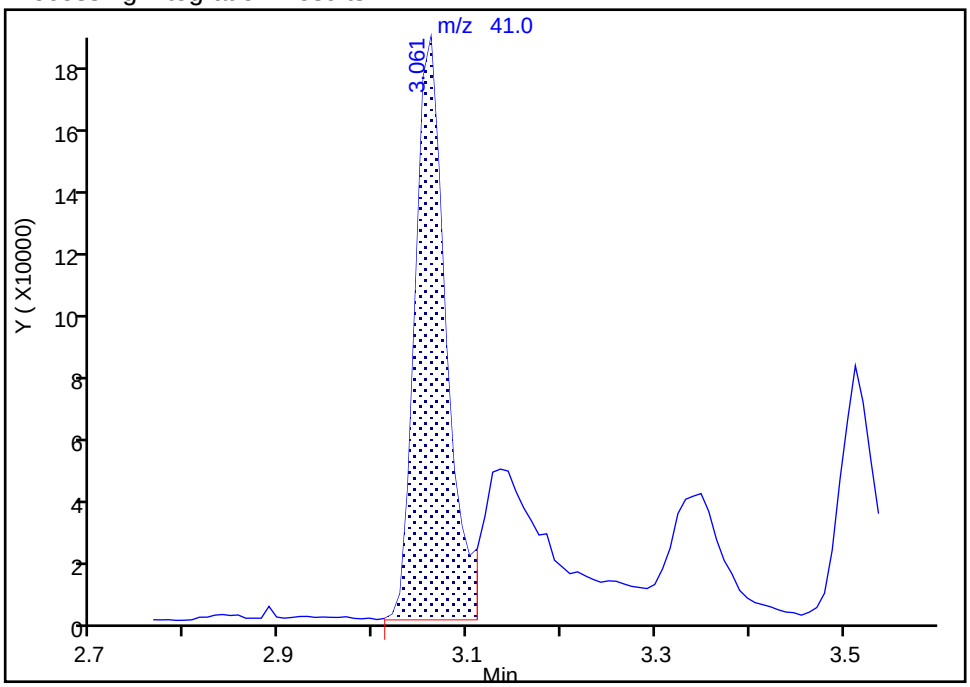
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Injection Date: 08-Jul-2018 09:47:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

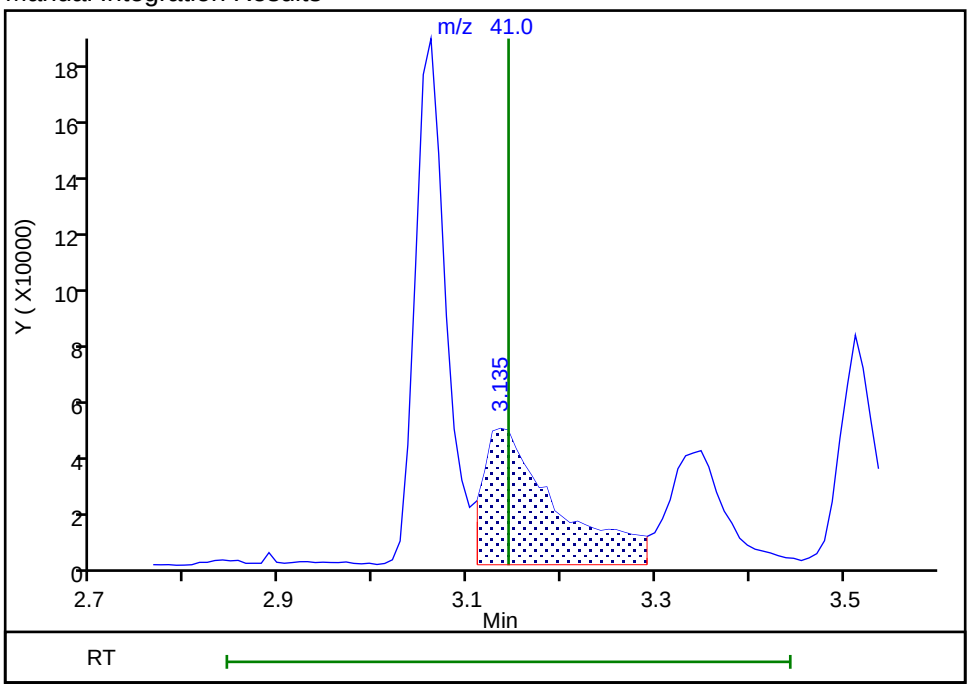
Processing Integration Results

RT: 3.06
Area: 436646
Amount: 503.1977
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 267502
Amount: 567.9606
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:52:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Jul-2018 10:11:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0075068-008
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:02 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	709694	200.0	222.4	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	1693948	200.0	219.8	
3 Chloromethane	50	1.755	1.747	0.008	98	1896409	200.0	201.5	
4 Vinyl chloride	62	1.837	1.837	0.000	97	1926255	200.0	204.8	
5 Butadiene	54	1.837	1.837	0.000	95	1765160	200.0	206.4	
6 Bromomethane	94	2.116	2.116	0.000	99	1241756	200.0	191.0	
7 Chloroethane	64	2.182	2.182	0.000	99	1084123	200.0	194.0	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	99	2202861	200.0	185.7	
10 Pentane	72	2.363	2.363	0.000	97	352397	400.0	369.2	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	99	1659910	200.0	190.6	
11 Ethanol	46	2.544	2.544	0.000	72	88716	8000.0	7381.9	
12 Ethyl ether	59	2.544	2.552	-0.008	94	776872	200.0	199.9	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	818433	200.0	180.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	92	863219	200.0	186.7	
15 Acrolein	56	2.724	2.724	0.000	92	60692	200.0	206.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	1011610	200.0	187.5	
17 1,1-Dichloroethene	96	2.765	2.757	0.008	98	972069	200.0	194.1	
18 Acetone	43	2.839	2.848	-0.009	89	1098210	1000.0	1043.7	
19 Iodomethane	142	2.922	2.913	0.009	97	1740678	200.0	192.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	98	327318	2000.0	1851.6	
21 Carbon disulfide	76	2.954	2.955	-0.001	99	3761206	200.0	187.7	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	99	1861456	200.0	194.2	
24 Methyl acetate	43	3.069	3.078	-0.009	98	1149470	400.0	396.0	
23 Cyclopentene	67	3.086	3.086	0.000	94	2394522	200.0	188.1	
25 Acetonitrile	41	3.135	3.144	-0.009	96	1036510	2000.0	1990.0	a
27 Methylene Chloride	84	3.193	3.193	0.000	91	1151163	200.0	186.7	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	151129	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.267	3.259	0.008	96	633643	2000.0	1993.9	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	2851896	200.0	192.1	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	94	1063814	200.0	192.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	95	3392609	2000.0	2048.8	
32 Hexane	43	3.521	3.522	-0.001	91	886813	200.0	196.5	
33 Isopropyl ether	45	3.727	3.727	0.000	96	3269485	200.0	192.7	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	1832242	200.0	186.2	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	393956	400.0	414.2	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	902621	200.0	184.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	3116079	200.0	196.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	184601	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.269	-0.008	94	385912	200.0	185.9	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	99	1193877	200.0	191.6	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	494630	1000.0	1011.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	182512	400.0	373.9	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	703275	200.0	206.2	
44 Propionitrile	54	4.425	4.425	0.000	99	1212845	2000.0	2156.8	
45 Chlorobromomethane	128	4.499	4.499	0.000	88	545825	200.0	189.8	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	71	217035	400.0	400.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	3671286	2000.0	2040.1	
48 Chloroform	83	4.549	4.549	-0.001	99	1703395	200.0	191.6	
49 Cyclohexane	84	4.688	4.688	0.000	90	1659263	200.0	200.0	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	99	1481430	200.0	187.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	95	101418	50.0	47.0	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	1246124	200.0	193.7	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	1366551	200.0	194.9	
54 Isobutyl alcohol	43	5.000	4.992	0.008	93	1374822	5000.0	5376.2	
55 Benzene	78	5.033	5.033	0.000	96	4204764	200.0	189.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	118946	50.0	51.6	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	2552684	200.0	201.1	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	91	3408504	200.0	201.6	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	1168815	200.0	182.5	
60 n-Heptane	57	5.181	5.181	0.000	89	827096	200.0	212.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	433129	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	420980	5000.0	5073.6	
63 Trichloroethene	95	5.674	5.674	0.000	99	1018520	200.0	190.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	2520560	200.0	217.5	
64 Methylcyclohexane	83	5.797	5.798	-0.001	89	1975138	200.0	209.9	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	1087509	200.0	196.7	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	18634	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	477153	400.0	418.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	1093852	200.0	213.1	
69 1,4-Dioxane	88	6.077	6.085	-0.008	28	112735	4000.0	3169.6	
71 Dibromomethane	93	6.093	6.093	0.000	97	596905	200.0	189.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	1337273	200.0	198.8	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	545482	200.0	225.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	351273	400.0	366.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	1608905	4000.0	4352.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	91	1656751	200.0	205.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	94	4041093	1000.0	1070.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	434144	50.0	49.6	
79 Toluene	91	7.055	7.055	0.000	94	4313597	200.0	192.6	
80 trans-1,3-Dichloropropene	75	7.400	7.408	-0.008	97	1357534	200.0	202.3	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	1244261	200.0	226.5	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	729655	200.0	195.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	1048499	200.0	191.6	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	1431570	200.0	202.9	
85 2-Hexanone	43	7.885	7.893	-0.008	94	2420551	1000.0	1055.6	
86 n-Butyl acetate	43	8.000	8.008	-0.008	98	1269986	200.0	196.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	99	952604	200.0	197.0	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	823898	200.0	202.5	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	317540	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	94	2735326	200.0	194.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	1582697	200.0	194.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	1030138	200.0	192.7	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	1957917	200.0	201.8	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	786020	200.0	210.0	
95 o-Xylene	106	9.503	9.503	0.000	95	2021512	200.0	201.4	
96 Styrene	104	9.536	9.536	0.000	96	3210461	200.0	205.8	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	1680483	200.0	207.8	
98 Bromoform	173	9.742	9.742	0.000	97	622246	200.0	200.8	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	4847598	200.0	201.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	126322	50.0	49.3	
101 Bromobenzene	156	10.144	10.144	0.000	98	1192585	200.0	190.8	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	1136664	200.0	192.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	5512304	200.0	192.3	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	303924	200.0	182.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	91	269249	200.0	198.5	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	3931428	200.0	194.7	
107 4-Ethyltoluene	105	10.300	10.300	0.000	88	4666273	200.0	197.5	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	95	4161635	200.0	199.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	3472777	200.0	194.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	1621447	200.0	211.5	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	3537058	200.0	210.6	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	4244360	200.0	200.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	97	5255599	200.0	203.1	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	96	4526133	200.0	207.1	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	95	2369298	200.0	193.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	180897	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	93	2386982	200.0	188.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	4429798	200.0	196.8	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	2408788	200.0	214.1	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	4322939	200.0	191.0	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	93	2565032	200.0	190.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	100	2490143	200.0	199.8	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	2314674	200.0	188.6	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	4209686	200.0	200.5	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	210427	200.0	193.8	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	1794877	200.0	187.6	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	1729926	200.0	203.3	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	95	780509	200.0	193.4	
128 Naphthalene	128	12.313	12.314	-0.001	99	3874891	200.0	215.2	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	1551295	200.0	190.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	383.7	
S 131 Xylenes, Total	100				0		400.0	403.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	20.00	Units: uL	
GAS Hi_00262	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
Ethanol mix_00017	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:05 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D

Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6 Operator ID:

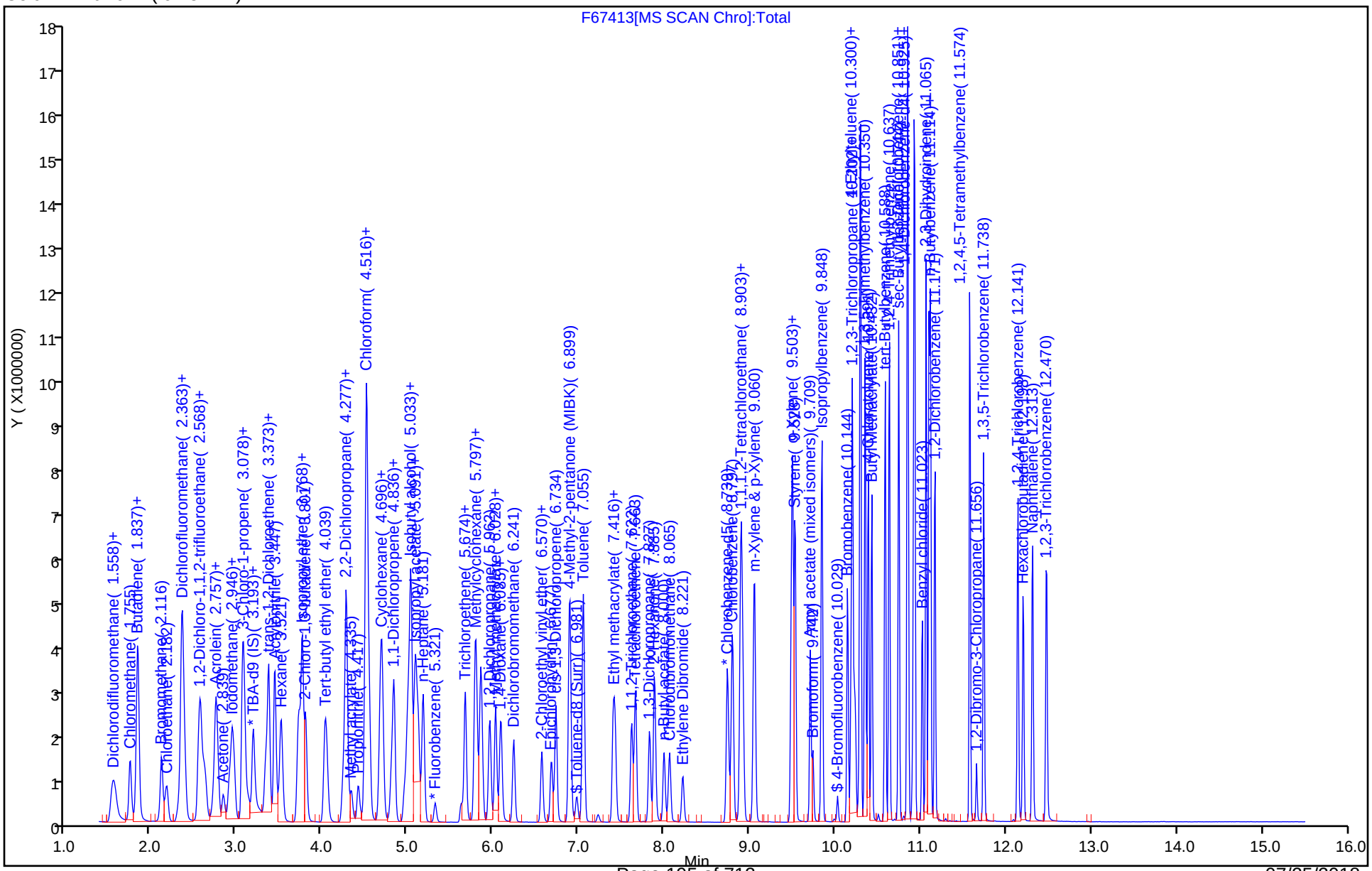
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

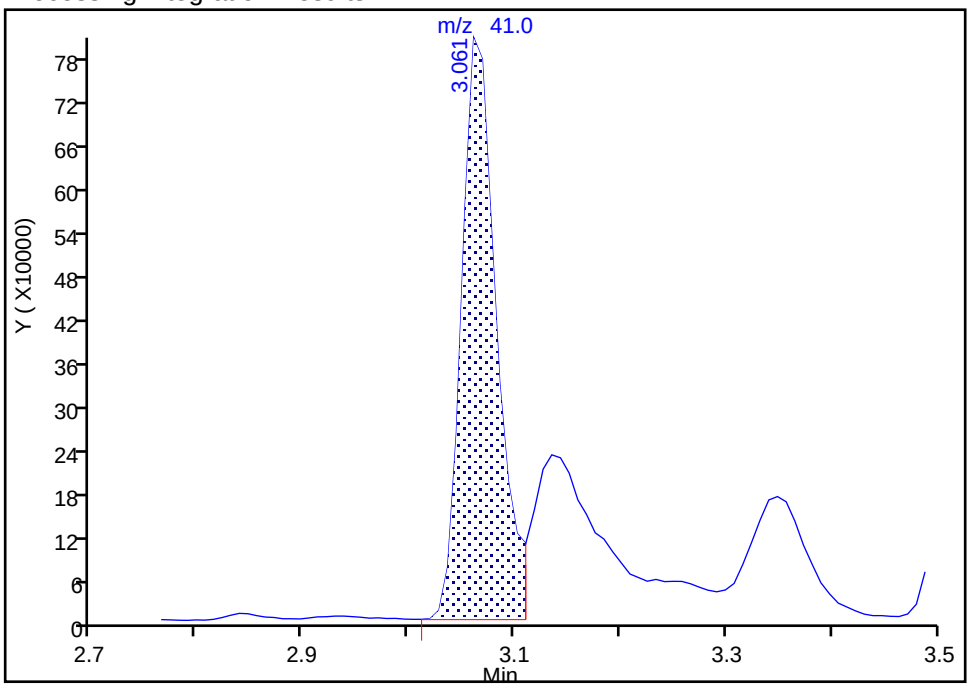
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

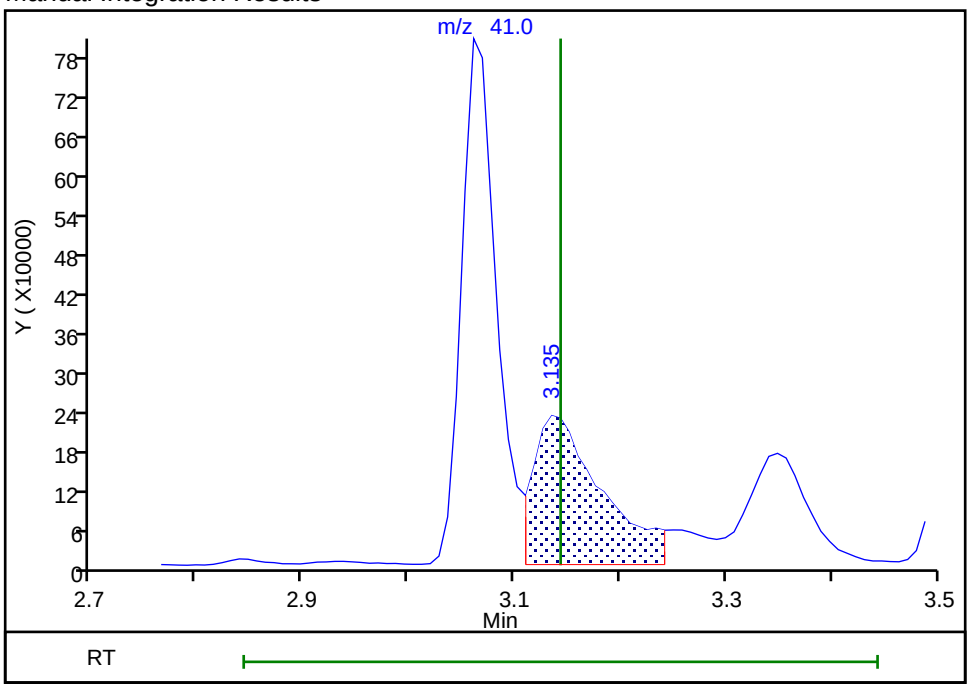
Processing Integration Results

RT: 3.06
Area: 1855304
Amount: 2081.1534
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1036510
Amount: 1989.9948
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:54:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

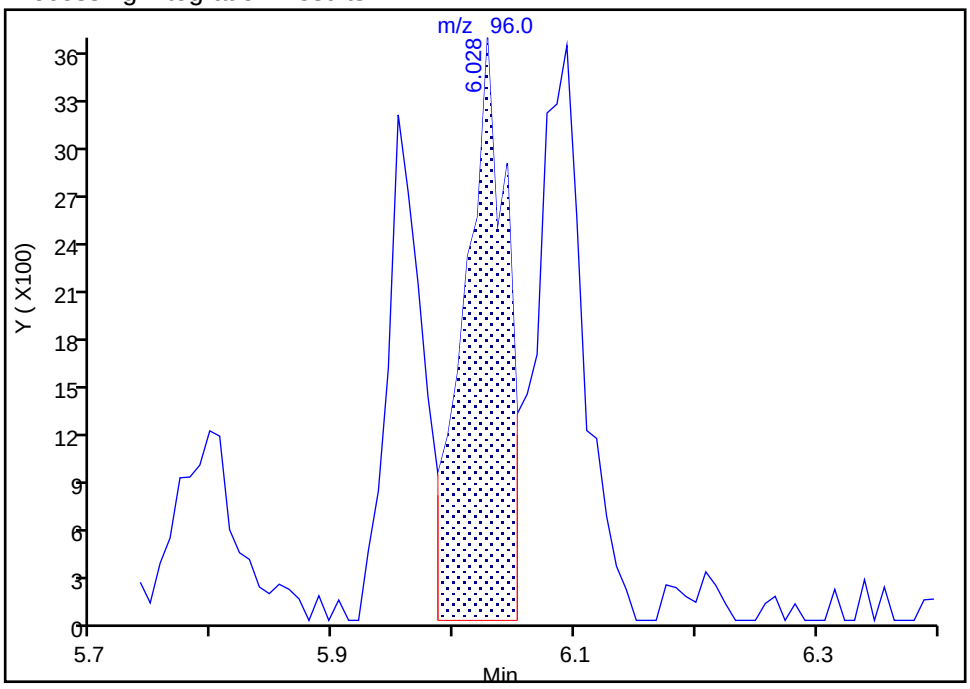
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

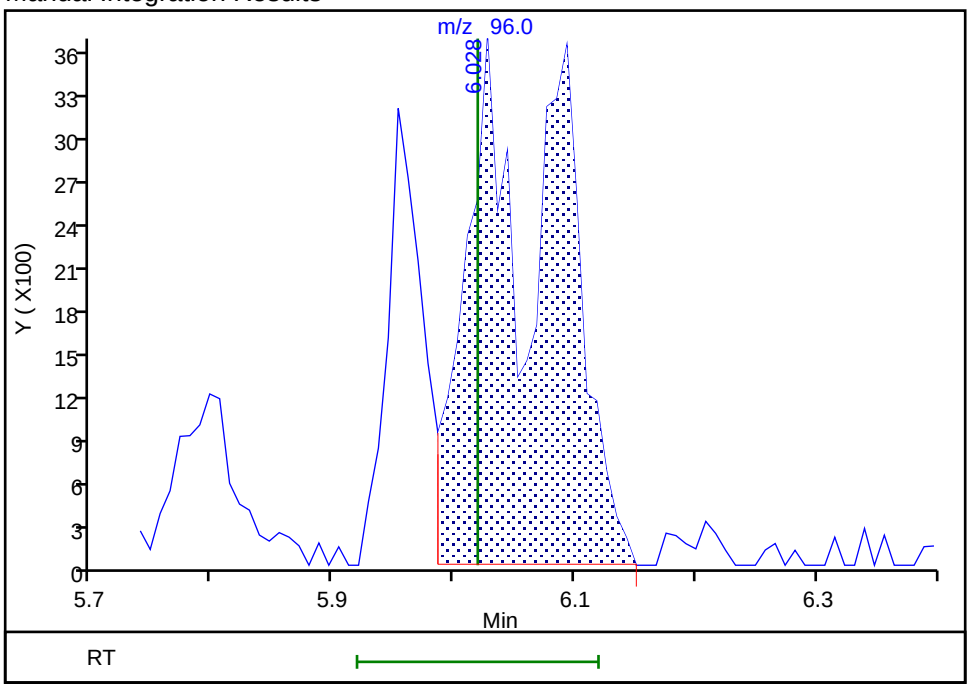
Processing Integration Results

RT: 6.03
Area: 9242
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.03
Area: 18634
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:56:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Jul-2018 10:34:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0075068-009
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:16 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	1936409	500.0	569.7	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	4408691	500.0	537.2	
3 Chloromethane	50	1.747	1.747	0.000	98	4846961	500.0	483.5	
5 Butadiene	54	1.837	1.837	0.000	96	4620836	500.0	507.4	
4 Vinyl chloride	62	1.837	1.837	0.000	98	4953087	500.0	494.5	
6 Bromomethane	94	2.116	2.116	0.000	99	3175435	500.0	458.6	
7 Chloroethane	64	2.182	2.182	0.000	99	2820281	500.0	473.8	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	5736092	500.0	454.0	
10 Pentane	72	2.371	2.363	0.008	96	1096295	1000.0	974.5	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	98	4430449	500.0	477.6	
11 Ethanol	46	2.552	2.544	0.008	85	294889	20000	20821	
12 Ethyl ether	59	2.544	2.552	-0.008	94	2046129	500.0	494.5	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	2438118	500.0	506.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	91	2314842	500.0	470.1	
15 Acrolein	56	2.724	2.724	0.000	91	167400	400.0	483.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	2805995	500.0	488.4	
17 1,1-Dichloroethene	96	2.774	2.757	0.017	98	2684576	500.0	503.3	
18 Acetone	43	2.839	2.848	-0.009	89	2964336	2500.0	2357.7	
19 Iodomethane	142	2.922	2.913	0.009	97	4521161	500.0	469.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	96	1092262	5000.0	5243.0	
21 Carbon disulfide	76	2.963	2.955	0.008	99	9931387	500.0	465.3	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	97	4802050	500.0	470.5	
24 Methyl acetate	43	3.069	3.078	-0.009	99	3098846	1000.0	1002.5	
23 Cyclopentene	67	3.086	3.086	0.000	94	6754156	500.0	498.3	
25 Acetonitrile	41	3.135	3.144	-0.009	96	3119121	5000.0	5081.4	a
* 26 TBA-d9 (IS)	65	3.209	3.193	0.016	0	178105	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	3042833	500.0	463.4	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	98	1943662	5000.0	5189.7	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	98	7468949	500.0	472.5	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	2764093	500.0	468.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	94	8608034	5000.0	4881.2	
32 Hexane	43	3.521	3.522	-0.001	91	2425866	500.0	504.7	
33 Isopropyl ether	45	3.727	3.727	0.000	95	8637675	500.0	477.9	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	100	4763691	500.0	454.5	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	1066727	1000.0	1053.0	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	89	2504213	500.0	481.5	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	8249314	500.0	487.2	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	220581	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	1041602	500.0	471.0	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	3137762	500.0	472.8	
42 Ethyl acetate	70	4.286	4.286	0.000	95	506767	1000.0	868.8	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	1328915	2500.0	2273.5	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	1967582	500.0	528.9	
44 Propionitrile	54	4.425	4.425	0.000	99	3294672	5000.0	4971.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	1429859	500.0	467.0	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	83	612177	1000.0	946.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	88	9385838	5000.0	4897.2	
48 Chloroform	83	4.549	4.549	0.000	99	4430844	500.0	468.0	
49 Cyclohexane	84	4.688	4.688	0.000	90	4618908	500.0	522.8	
50 1,1,1-Trichloroethane	97	4.705	4.697	0.008	99	3942526	500.0	467.3	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	107167	50.0	46.6	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	3319730	500.0	484.5	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	3656797	500.0	489.6	
54 Isobutyl alcohol	43	4.968	4.992	-0.024	93	4113074	12500	13648	
55 Benzene	78	5.042	5.033	0.009	98	10481196	500.0	433.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	137011	50.0	55.8	M
57 Isopropyl acetate	43	5.083	5.083	0.000	96	7060860	500.0	522.2	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	92	9059390	500.0	503.0	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	94	3106032	500.0	455.3	
60 n-Heptane	57	5.181	5.181	0.000	90	2200144	500.0	531.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	461281	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	1375300	12500	12492	
63 Trichloroethene	95	5.674	5.674	0.000	99	2697116	500.0	474.4	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	6886192	500.0	557.8	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	5356346	500.0	534.5	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	2911396	500.0	494.3	
* 67 1,4-Dioxane-d8	96	6.093	6.019	0.074	0	30893	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	1294397	1000.0	1064.7	
69 1,4-Dioxane	88	6.077	6.085	-0.008	59	350276	10000	5940.2	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	3100296	500.0	567.0	
71 Dibromomethane	93	6.093	6.093	0.000	98	1590260	500.0	474.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	3528767	500.0	492.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	1004773	1000.0	983.5	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	1542778	500.0	599.3	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	4369507	10000	9891.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	4389929	500.0	500.3	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	93	10225528	2500.0	2266.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	462865	50.0	48.5	
79 Toluene	91	7.055	7.055	0.000	96	10589556	500.0	433.5	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	3702694	500.0	506.0	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	91	3351463	500.0	559.4	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	1972178	500.0	484.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	2773903	500.0	464.7	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	3834334	500.0	498.2	
85 2-Hexanone	43	7.885	7.893	-0.008	93	6479984	2500.0	2360.9	
86 n-Butyl acetate	43	8.000	8.008	-0.008	97	3587927	500.0	507.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	2528593	500.0	479.6	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	2180576	500.0	491.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	346290	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	7124946	500.0	463.3	
91 Ethylbenzene	106	8.903	8.895	0.008	98	4228207	500.0	476.0	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	2693250	500.0	461.9	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	5166108	500.0	488.2	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	2237636	500.0	547.3	
95 o-Xylene	106	9.503	9.503	0.000	97	5253468	500.0	480.0	
96 Styrene	104	9.536	9.536	0.000	92	8069972	500.0	474.5	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	4681947	500.0	553.7	
98 Bromoform	173	9.742	9.742	0.000	96	1611171	500.0	476.7	
99 Isopropylbenzene	105	9.848	9.849	-0.001	97	10861682	500.0	413.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	133441	50.0	47.7	
101 Bromobenzene	156	10.144	10.144	0.000	98	3103431	500.0	475.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	3010711	500.0	489.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	96	11612551	500.0	388.2	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	96	816999	500.0	470.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	90	755508	500.0	532.6	
106 2-Chlorotoluene	91	10.300	10.292	0.008	95	9240017	500.0	438.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	81	10708126	500.0	434.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	96	9326055	500.0	429.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	8235664	500.0	441.7	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	4294317	500.0	488.2	
111 tert-Butylbenzene	119	10.588	10.588	0.000	88	8175185	500.0	466.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	94	9287375	500.0	420.0	
113 sec-Butylbenzene	105	10.744	10.744	0.000	91	10654597	500.0	394.6	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	90	9632021	500.0	422.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	92	5898093	500.0	461.0	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	92	188821	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	90	5867301	500.0	444.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	92	9624666	500.0	409.6	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	5889342	500.0	501.5	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	9159299	500.0	387.7	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	6378237	500.0	454.1	
121 n-Butylbenzene	92	11.114	11.114	0.000	94	6134003	500.0	471.4	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	91	5574171	500.0	435.0	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	93	8853963	500.0	403.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	97	553314	500.0	488.3	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	4475172	500.0	448.0	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	4218831	500.0	474.9	
127 Hexachlorobutadiene	225	12.207	12.199	0.008	95	1941946	500.0	461.0	
128 Naphthalene	128	12.314	12.314	0.000	96	8593464	500.0	457.1	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	3769448	500.0	442.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	941.5	
S 131 Xylenes, Total	100				0		1000.0	968.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	40.00	Units: uL	
GAS Hi_00262	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
Ethanol mix_00017	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	50.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6 Operator ID:

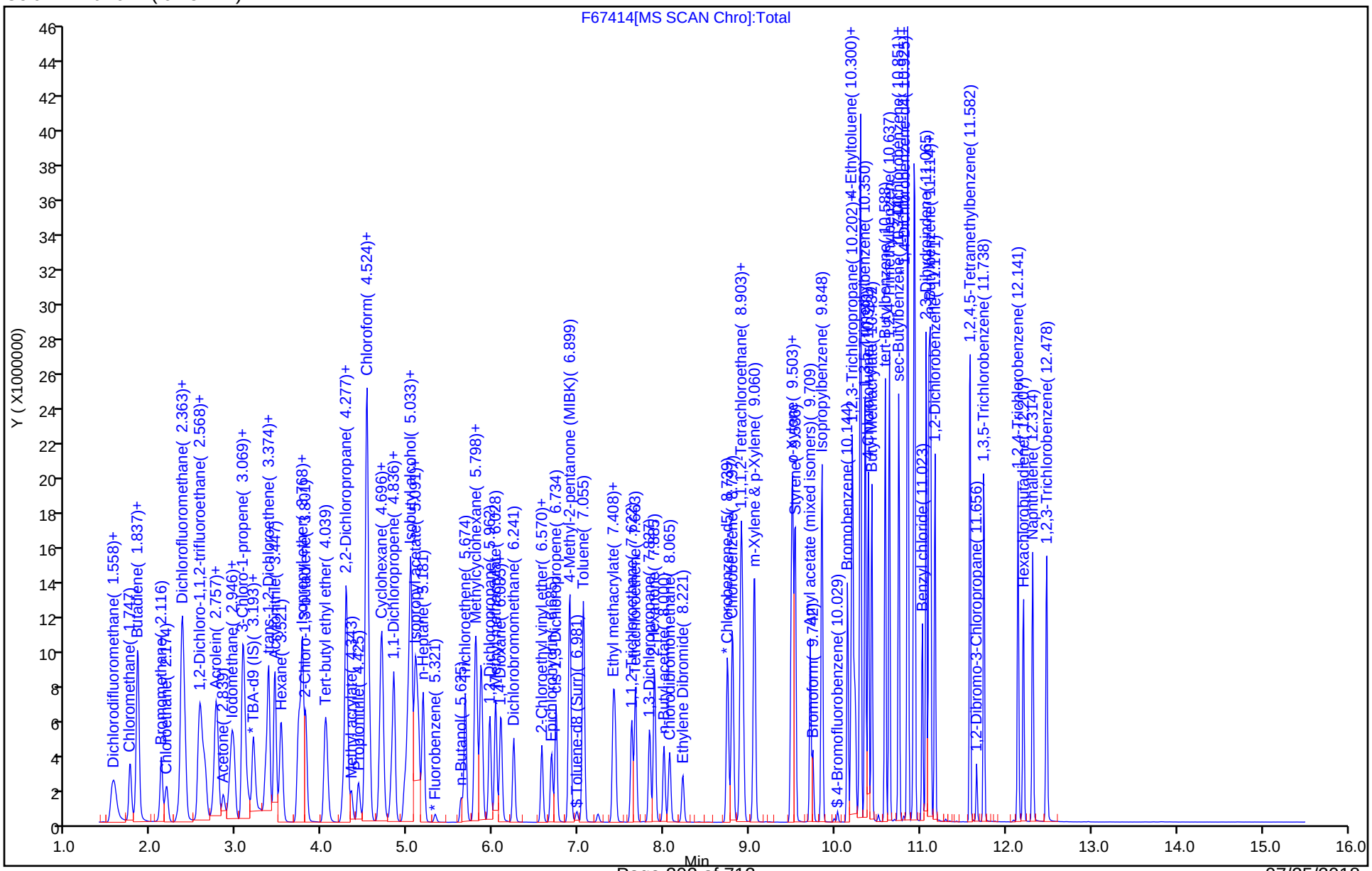
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

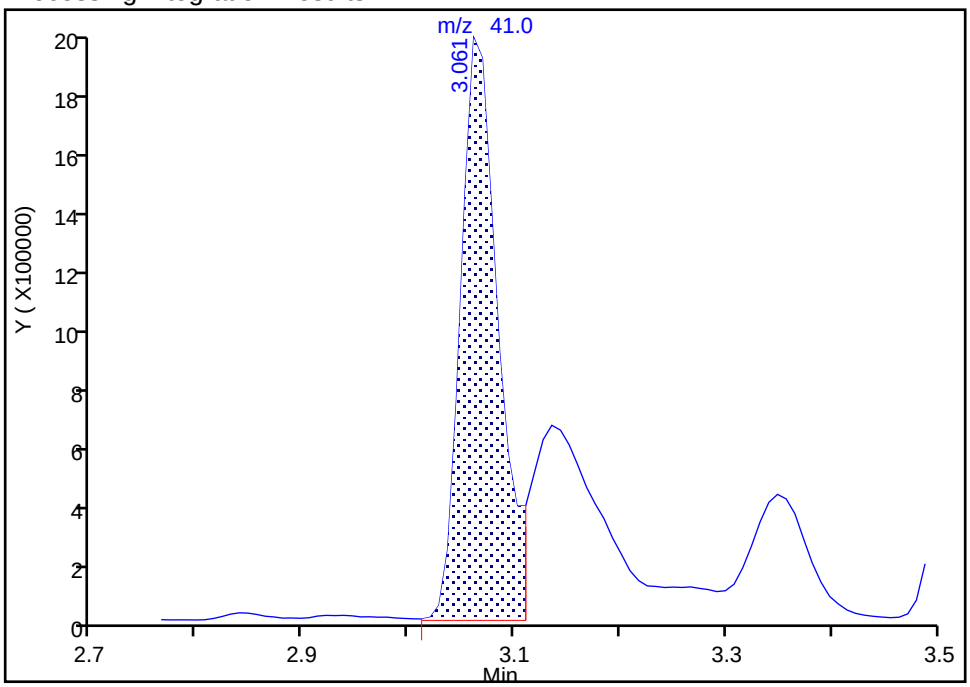
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

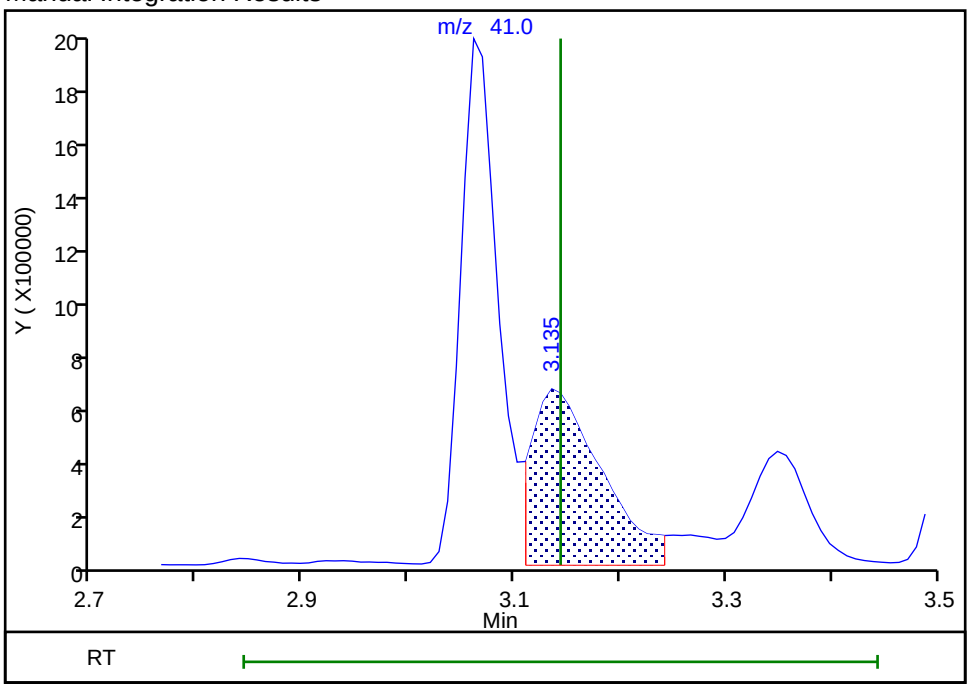
Processing Integration Results

RT: 3.06
Area: 4996979
Amount: 5004.7837
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 3119121
Amount: 5081.3882
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:00:21
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

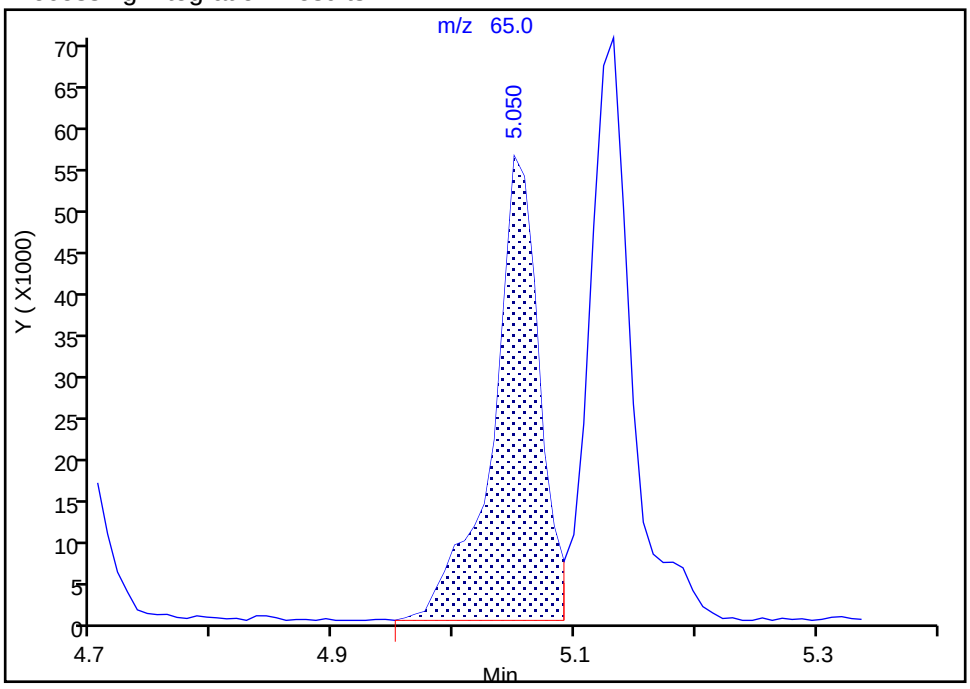
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

$ 56 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

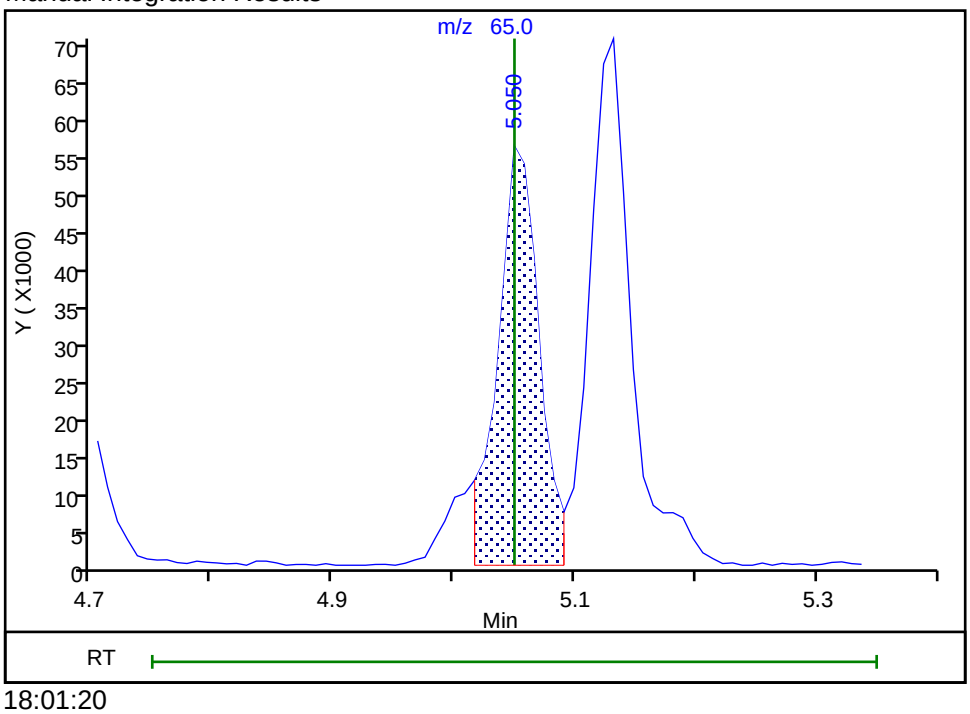
Processing Integration Results

RT: 5.05
Area: 151985
Amount: 60.834141
Amount Units: ug/l



Manual Integration Results

RT: 5.05
Area: 137011
Amount: 55.796062
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:20
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

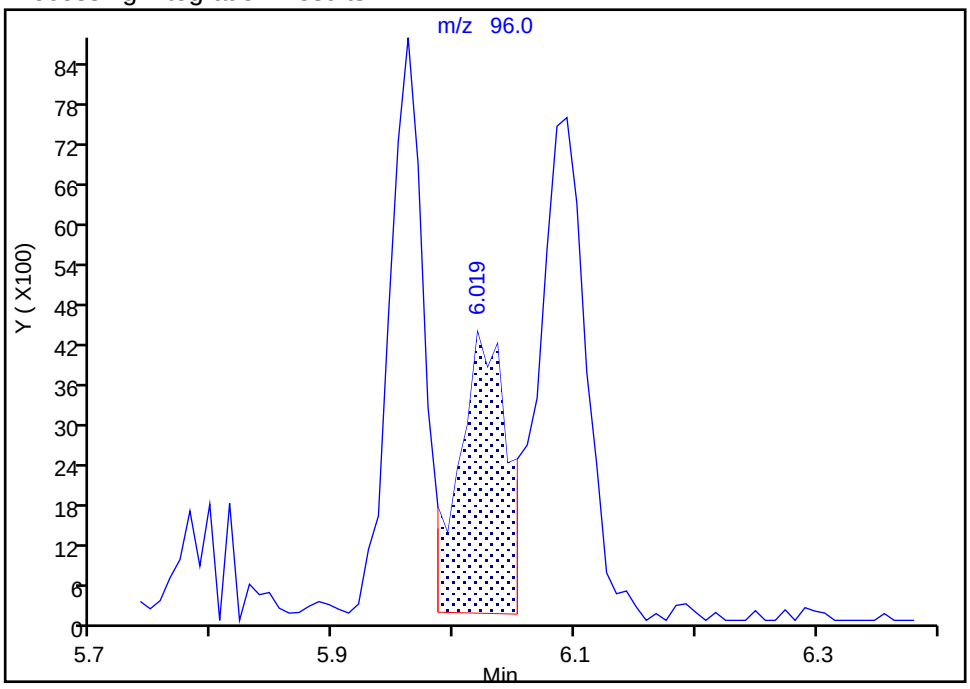
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

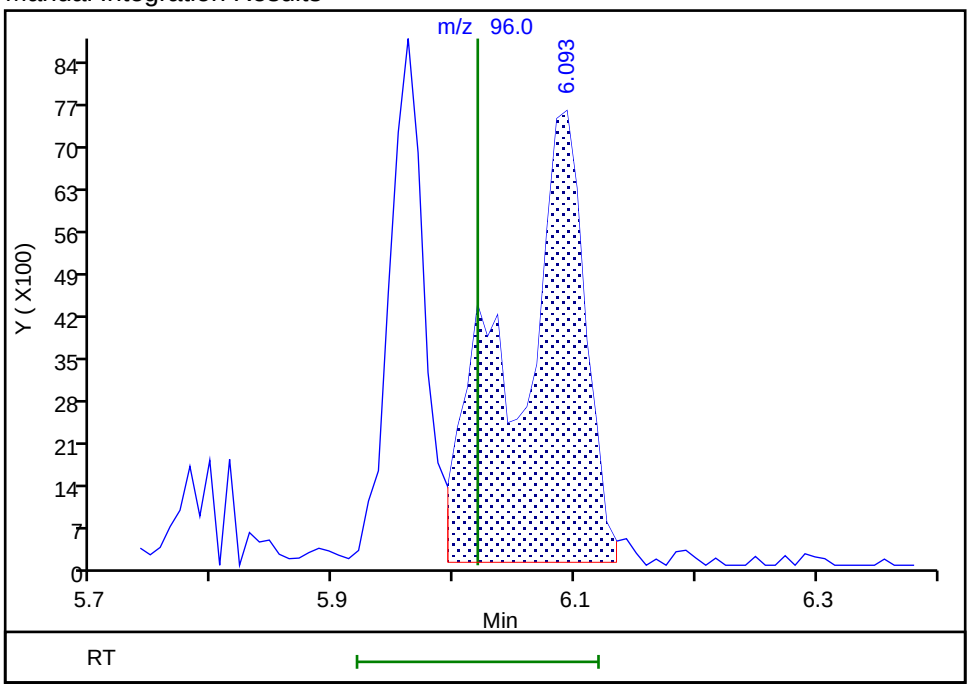
Processing Integration Results

RT: 6.02
Area: 11978
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 30893
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.3823		20.8	20.0	3.8	20.0
Dichlorodifluoromethane	Ave	0.8896	0.9699	0.1000	21.8	20.0	9.0	20.0
Chloromethane	Ave	1.087	1.178	0.1000	21.7	20.0	8.4	20.0
Butadiene	Ave	0.9872	1.066		21.6	20.0	8.0	20.0
Vinyl chloride	Ave	1.086	1.188	0.1000	21.9	20.0	9.5	20.0
Bromomethane	Ave	0.7505	0.7958	0.1000	21.2	20.0	6.0	50.0
Chloroethane	Ave	0.6452	0.6836	0.1000	21.2	20.0	5.9	50.0
Dichlorofluoromethane	Ave	1.369	1.481		21.6	20.0	8.1	20.0
Pentane	Ave	6.316	6.194		39.2	40.0	-1.9	20.0
Trichlorofluoromethane	Ave	1.006	1.035	0.1000	20.6	20.0	3.0	20.0
Ethanol	Ave	0.0795	0.0918		923	800	15.4	50.0
Ethyl ether	Ave	0.4485	0.4702		21.0	20.0	4.8	20.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.5297		20.3	20.0	1.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.5412		20.3	20.0	1.4	20.0
Acrolein	Ave	1.943	1.236		25.4	40.0	-36.4	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.6227	0.6319	0.1000	20.3	20.0	1.5	20.0
1,1-Dichloroethene	Ave	0.5782	0.5827	0.1000	20.2	20.0	0.8	20.0
Acetone	Ave	1.425	1.571	0.0500	110	100	10.3	50.0
Iodomethane	Ave	1.044	1.071		20.5	20.0	2.6	20.0
Isopropyl alcohol	Ave	1.170	1.316		225	200	12.5	50.0
Carbon disulfide	Ave	2.314	2.325	0.1000	20.1	20.0	0.5	50.0
Allyl chloride	Ave	1.106	1.116		20.2	20.0	0.9	20.0
Methyl acetate	Ave	0.3351	0.3759	0.1000	44.9	40.0	12.2	20.0
Cyclopentene	Ave	1.469	1.556		21.2	20.0	5.9	20.0
Acetonitrile	Ave	3.446	3.937		228	200	14.2	20.0
Methylene Chloride	Ave	0.7118	0.7157	0.1000	20.1	20.0	0.5	20.0
2-Methyl-2-propanol	Ave	2.103	2.943		280	200	39.9	50.0
Methyl tert-butyl ether	Ave	1.713	1.794	0.1000	20.9	20.0	4.7	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6614	0.1000	20.7	20.0	3.5	20.0
Acrylonitrile	Ave	0.1912	0.2201		230	200	15.2	20.0
Hexane	Ave	0.5210	0.5339		20.5	20.0	2.5	20.0
Isopropyl ether	Ave	1.959	2.049		20.9	20.0	4.6	20.0
1,1-Dichloroethane	Ave	1.136	1.195	0.2000	21.0	20.0	5.2	20.0
Vinyl acetate	Ave	0.1098	0.1127		41.1	40.0	2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5430		19.3	20.0	-3.7	20.0
Tert-butyl ethyl ether	Ave	1.835	1.916		20.9	20.0	4.4	20.0
2,2-Dichloropropane	Ave	0.2397	0.2460		20.5	20.0	2.6	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7337	0.1000	20.4	20.0	2.0	20.0
2-Butanone (MEK)	Ave	0.6625	0.6492	0.0500	98.0	100	-2.0	50.0
Ethyl acetate	Ave	0.6611	0.6033		36.5	40.0	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.5952		22.2	20.0	10.8	20.0
Propionitrile	Ave	3.721	3.961		213	200	6.5	20.0
Chlorobromomethane	Ave	0.3319	0.3375		20.3	20.0	1.7	20.0
Tetrahydrofuran	Lin2		0.7810		41.4	40.0	3.6	20.0
Methacrylonitrile	Ave	0.2077	0.2233		215	200	7.5	20.0
Chloroform	Ave	1.026	1.082	0.2000	21.1	20.0	5.5	20.0
Cyclohexane	Ave	0.9576	0.9688	0.1000	20.2	20.0	1.2	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.9068	0.1000	19.8	20.0	-0.8	20.0
Carbon tetrachloride	Ave	0.7427	0.7602	0.1000	20.5	20.0	2.4	20.0
1,1-Dichloropropene	Ave	0.8095	0.8454		20.9	20.0	4.4	20.0
Isobutyl alcohol	Ave	1.692	1.689		499	500	-0.2	50.0
Benzene	Ave	3.489	3.763	0.5000	21.6	20.0	7.9	20.0
Isopropyl acetate	Ave	1.466	1.592		21.7	20.0	8.6	20.0
Tert-amyl methyl ether	Ave	1.952	2.115		21.7	20.0	8.3	20.0
1,2-Dichloroethane	Ave	0.7395	0.7221	0.1000	19.5	20.0	-2.4	20.0
n-Heptane	Ave	0.4484	0.4790		21.4	20.0	6.8	20.0
n-Butanol	QuaF		0.3815		378	500	-24.5	50.0
Trichloroethene	Ave	0.6162	0.6394	0.2000	20.8	20.0	3.8	20.0
Ethyl acrylate	Ave	1.338	1.433		21.4	20.0	7.1	20.0
Methylcyclohexane	Ave	1.086	1.149	0.1000	21.1	20.0	5.7	50.0
1,2-Dichloropropane	Ave	0.6384	0.6435	0.1000	20.2	20.0	0.8	20.0
Methyl methacrylate	Lin2		0.1339		41.6	40.0	3.9	20.0
Dibromomethane	Ave	0.3635	0.3524		19.4	20.0	-3.1	20.0
n-Propyl acetate	Ave	0.5927	0.6178		20.8	20.0	4.2	20.0
1,4-Dioxane	Ave	1.909	2.151		451	400	12.7	50.0
Bromodichloromethane	Ave	0.7764	0.7817	0.2000	20.1	20.0	0.7	20.0
2-Nitropropane	Ave	0.1107	0.0986		35.6	40.0	-10.9	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.2792		20.0	20.0	0.0	20.0
Epichlorohydrin	Ave	0.5007	0.4973		397	400	-0.7	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.275	0.2000	20.1	20.0	0.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.270	0.0500	103	100	3.1	50.0
Toluene	Ave	3.527	3.715	0.4000	21.1	20.0	5.3	20.0
trans-1,3-Dichloropropene	Ave	1.057	1.025	0.1000	19.4	20.0	-3.0	50.0
Ethyl methacrylate	Ave	0.8650	0.9611		22.2	20.0	11.1	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.6026	0.1000	20.5	20.0	2.6	20.0
Tetrachloroethene	Ave	0.8618	0.8846	0.2000	20.5	20.0	2.6	20.0
1,3-Dichloropropane	Ave	1.111	1.160		20.9	20.0	4.4	20.0
2-Hexanone	Lin2		2.830	0.0500	94.1	100	-5.9	50.0
n-Butyl acetate	Lin2		1.067		21.5	20.0	7.4	20.0
Dibromochloromethane	Ave	0.7612	0.7770	0.1000	20.4	20.0	2.1	50.0
1,2-Dibromoethane	Ave	0.6407	0.6505	0.1000	20.3	20.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.304	0.5000	20.7	20.0	3.7	20.0
Ethylbenzene	Ave	1.283	1.301	0.1000	20.3	20.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.8822		21.0	20.0	4.8	20.0
m-Xylene & p-Xylene	Ave	1.528	1.600	0.1000	20.9	20.0	4.7	20.0
n-Butyl acrylate	Lin2		0.5745		20.0	20.0	-0.0	20.0
o-Xylene	Ave	1.580	1.692	0.3000	21.4	20.0	7.0	20.0
Styrene	Ave	2.456	2.591	0.3000	21.1	20.0	5.5	20.0
Bromoform	Ave	0.4880	0.4853	0.1000	19.9	20.0	-0.6	20.0
Isopropylbenzene	Ave	3.798	4.285	0.1000	22.6	20.0	12.8	20.0
Bromobenzene	Ave	1.728	1.827		21.2	20.0	5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.787	0.3000	21.9	20.0	9.7	20.0
N-Propylbenzene	Ave	7.921	8.803		22.2	20.0	11.1	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4830		21.0	20.0	5.1	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.3785		20.7	20.0	3.7	20.0
2-Chlorotoluene	Ave	5.582	5.946		21.3	20.0	6.5	20.0
4-Ethyltoluene	Ave	6.531	7.411		22.7	20.0	13.5	20.0
1,3,5-Trimethylbenzene	Ave	5.756	6.368		22.1	20.0	10.6	20.0
4-Chlorotoluene	Ave	4.937	5.331		21.6	20.0	8.0	20.0
Butyl Methacrylate	Qua2		2.010		20.7	20.0	3.6	20.0
tert-Butylbenzene	Ave	4.643	4.932		21.2	20.0	6.2	20.0
1,2,4-Trimethylbenzene	Ave	5.856	6.519		22.3	20.0	11.3	20.0
sec-Butylbenzene	Ave	7.151	8.031		22.5	20.0	12.3	20.0
4-Isopropyltoluene	Ave	6.041	6.861		22.7	20.0	13.6	20.0
1,3-Dichlorobenzene	Ave	3.388	3.626	0.6000	21.4	20.0	7.0	20.0
1,4-Dichlorobenzene	Ave	3.493	3.813	0.5000	21.8	20.0	9.2	20.0
1,2,3-Trimethylbenzene	Ave	6.222	6.845		22.0	20.0	10.0	20.0
Benzyl chloride	Ave	3.109	3.490		22.4	20.0	12.2	50.0
Indan	Ave	6.256	6.794		21.7	20.0	8.6	20.0
p-Diethylbenzene	Ave	3.719	4.237		22.8	20.0	13.9	20.0
n-Butylbenzene	Ave	3.445	3.810		22.1	20.0	10.6	20.0
1,2-Dichlorobenzene	Ave	3.393	3.674	0.4000	21.7	20.0	8.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	6.444		22.2	20.0	11.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.2783	0.0500	18.5	20.0	-7.3	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.823		21.3	20.0	6.7	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.532	0.2000	21.5	20.0	7.6	20.0
Hexachlorobutadiene	Ave	1.115	1.094		19.6	20.0	-1.9	20.0
Naphthalene	Ave	4.978	5.886		23.7	20.0	18.3	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.450		21.7	20.0	8.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2573		51.6	50.0	3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2723		51.1	50.0	2.3	20.0
Toluene-d8 (Surr)	Ave	1.378	1.375		49.9	50.0	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4036	0.4059		50.3	50.0	0.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2018 18:27:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075142-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 18:52:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	87	57613	20.0	20.8	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	146153	20.0	21.8	
3 Chloromethane	50	1.738	1.738	0.000	99	177511	20.0	21.7	
5 Butadiene	54	1.829	1.829	0.000	94	160667	20.0	21.6	
4 Vinyl chloride	62	1.829	1.829	0.000	98	179076	20.0	21.9	
6 Bromomethane	94	2.108	2.108	0.000	98	119909	20.0	21.2	
7 Chloroethane	64	2.166	2.166	0.000	99	103002	20.0	21.2	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	99	223132	20.0	21.6	
10 Pentane	72	2.355	2.355	0.000	96	34057	40.0	39.2	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	64	156029	20.0	20.6	
11 Ethanol	46	2.535	2.535	0.000	77	10094	800.0	923.5	
12 Ethyl ether	59	2.544	2.544	0.000	93	70845	20.0	21.0	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	95	79813	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	82	81544	20.0	20.3	
15 Acrolein	56	2.724	2.724	0.000	3	6796	40.0	25.4	a
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	98	95222	20.0	20.3	
17 1,1-Dichloroethene	96	2.749	2.749	0.000	99	87798	20.0	20.2	
18 Acetone	43	2.839	2.839	0.000	87	108186	100.0	110.3	
19 Iodomethane	142	2.905	2.905	0.000	97	161340	20.0	20.5	
20 Isopropyl alcohol	45	2.930	2.930	0.000	27	36182	200.0	225.0	
21 Carbon disulfide	76	2.946	2.946	0.000	99	350386	20.0	20.1	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	96	168200	20.0	20.2	
24 Methyl acetate	43	3.070	3.070	0.000	99	113279	40.0	44.9	
23 Cyclopentene	67	3.078	3.078	0.000	95	234538	20.0	21.2	
25 Acetonitrile	41	3.135	3.135	0.000	98	108239	200.0	228.5	
27 Methylene Chloride	84	3.185	3.185	0.000	92	107841	20.0	20.1	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	137451	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	34	80894	200.0	279.9	M
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	270396	20.0	20.9	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	95	99668	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.439	0.000	97	331702	200.0	230.3	
32 Hexane	43	3.513	3.513	0.000	90	80451	20.0	20.5	
33 Isopropyl ether	45	3.719	3.719	0.000	96	308767	20.0	20.9	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	180104	20.0	21.0	
35 Vinyl acetate	86	3.768	3.768	0.000	100	33970	40.0	41.1	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	81829	20.0	19.3	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	288645	20.0	20.9	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	172110	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	95	37062	20.0	20.5	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	97	110557	20.0	20.4	
42 Ethyl acetate	70	4.286	4.286	0.000	96	16612	40.0	36.5	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	44692	100.0	98.0	
43 Methyl acrylate	55	4.343	4.343	0.000	98	63182	20.0	22.2	
44 Propionitrile	54	4.417	4.417	0.000	98	108900	200.0	212.9	
45 Chlorobromomethane	128	4.491	4.491	0.000	89	50862	20.0	20.3	
46 Tetrahydrofuran	72	4.499	4.499	0.000	54	21508	40.0	41.4	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	336547	200.0	215.0	
48 Chloroform	83	4.549	4.549	0.000	99	163078	20.0	21.1	
49 Cyclohexane	84	4.680	4.680	0.000	91	145983	20.0	20.2	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	98	136646	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	96943	50.0	51.6	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	114546	20.0	20.5	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	127386	20.0	20.9	
54 Isobutyl alcohol	43	4.992	4.992	0.000	90	116068	500.0	499.0	
55 Benzene	78	5.033	5.033	0.000	95	399471	20.0	21.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	102562	50.0	51.1	
57 Isopropyl acetate	43	5.083	5.083	0.000	81	239899	20.0	21.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	89	318697	20.0	21.7	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	108806	20.0	19.5	
60 n-Heptane	57	5.173	5.173	0.000	90	72172	20.0	21.4	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	376714	50.0	50.0	
62 n-Butanol	56	5.641	5.641	0.000	88	26220	500.0	377.5	
63 Trichloroethene	95	5.666	5.666	0.000	99	96349	20.0	20.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	215974	20.0	21.4	
64 Methylcyclohexane	83	5.789	5.789	0.000	89	173087	20.0	21.1	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	94	96963	20.0	20.2	
68 Methyl methacrylate	100	6.028	6.028	0.000	86	40356	40.0	41.6	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	13210	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	93096	20.0	20.8	
71 Dibromomethane	93	6.085	6.085	0.000	82	53095	20.0	19.4	
69 1,4-Dioxane	88	6.093	6.093	0.000	26	11365	400.0	450.7	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	117793	20.0	20.1	
73 2-Nitropropane	41	6.562	6.562	0.000	79	29727	40.0	35.6	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	74	42068	20.0	20.0	
75 Epichlorohydrin	57	6.677	6.677	0.000	98	136943	400.0	397.3	
76 cis-1,3-Dichloropropene	75	6.726	6.726	0.000	89	135299	20.0	20.1	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	95	362815	100.0	103.1	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	364983	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	93	394338	20.0	21.1	
80 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	96	108759	20.0	19.4	
81 Ethyl methacrylate	69	7.424	7.424	0.000	88	102024	20.0	22.2	
82 1,1,2-Trichloroethane	83	7.613	7.613	0.000	96	63968	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	93896	20.0	20.5	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	93	123094	20.0	20.9	
85 2-Hexanone	43	7.893	7.893	0.000	96	194829	100.0	94.1	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	113216	20.0	21.5	
87 Chlorodibromomethane	129	8.057	8.057	0.000	98	82477	20.0	20.4	
88 Ethylene Dibromide	107	8.213	8.213	0.000	99	69055	20.0	20.3	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	265379	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	244535	20.0	20.7	
91 Ethylbenzene	106	8.895	8.895	0.000	98	138091	20.0	20.3	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	96	93646	20.0	21.0	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	169832	20.0	20.9	
94 n-Butyl acrylate	73	9.487	9.487	0.000	98	60981	20.0	20.0	
95 o-Xylene	106	9.503	9.503	0.000	95	179570	20.0	21.4	
96 Styrene	104	9.536	9.536	0.000	96	275006	20.0	21.1	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	132621	20.0	20.2	
98 Bromoform	173	9.742	9.742	0.000	96	51520	20.0	19.9	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	454824	20.0	22.6	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	107705	50.0	50.3	
101 Bromobenzene	156	10.144	10.144	0.000	98	110472	20.0	21.2	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	108001	20.0	21.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	532185	20.0	22.2	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	96	29199	20.0	21.0	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	79	22880	20.0	20.7	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	359447	20.0	21.3	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	448022	20.0	22.7	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	384989	20.0	22.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	322256	20.0	21.6	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	121508	20.0	20.7	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	298179	20.0	21.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	394109	20.0	22.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	485531	20.0	22.5	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	414754	20.0	22.7	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	219193	20.0	21.4	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	151135	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	230522	20.0	21.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	413832	20.0	22.0	
118 Benzyl chloride	91	11.024	11.024	0.000	99	210991	20.0	22.4	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	410741	20.0	21.7	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	256158	20.0	22.8	
121 n-Butylbenzene	92	11.122	11.122	0.000	96	230312	20.0	22.1	
122 1,2-Dichlorobenzene	146	11.180	11.180	0.000	97	222097	20.0	21.7	
123 1,2,4,5-Tetramethylbenzene	119	11.599	11.599	0.000	98	389560	20.0	22.2	
124 1,2-Dibromo-3-Chloropropan	75	11.673	11.673	0.000	95	16824	20.0	18.5	
125 1,3,5-Trichlorobenzene	180	11.755	11.755	0.000	98	170675	20.0	21.3	
126 1,2,4-Trichlorobenzene	180	12.166	12.166	0.000	94	153046	20.0	21.5	
127 Hexachlorobutadiene	225	12.223	12.223	0.000	95	66139	20.0	19.6	
128 Naphthalene	128	12.330	12.330	0.000	99	355862	20.0	23.7	
129 1,2,3-Trichlorobenzene	180	12.503	12.503	0.000	95	148095	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.1	
S 131 Xylenes, Total	100				0		40.0	42.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 06:34:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D

Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6 Operator ID:

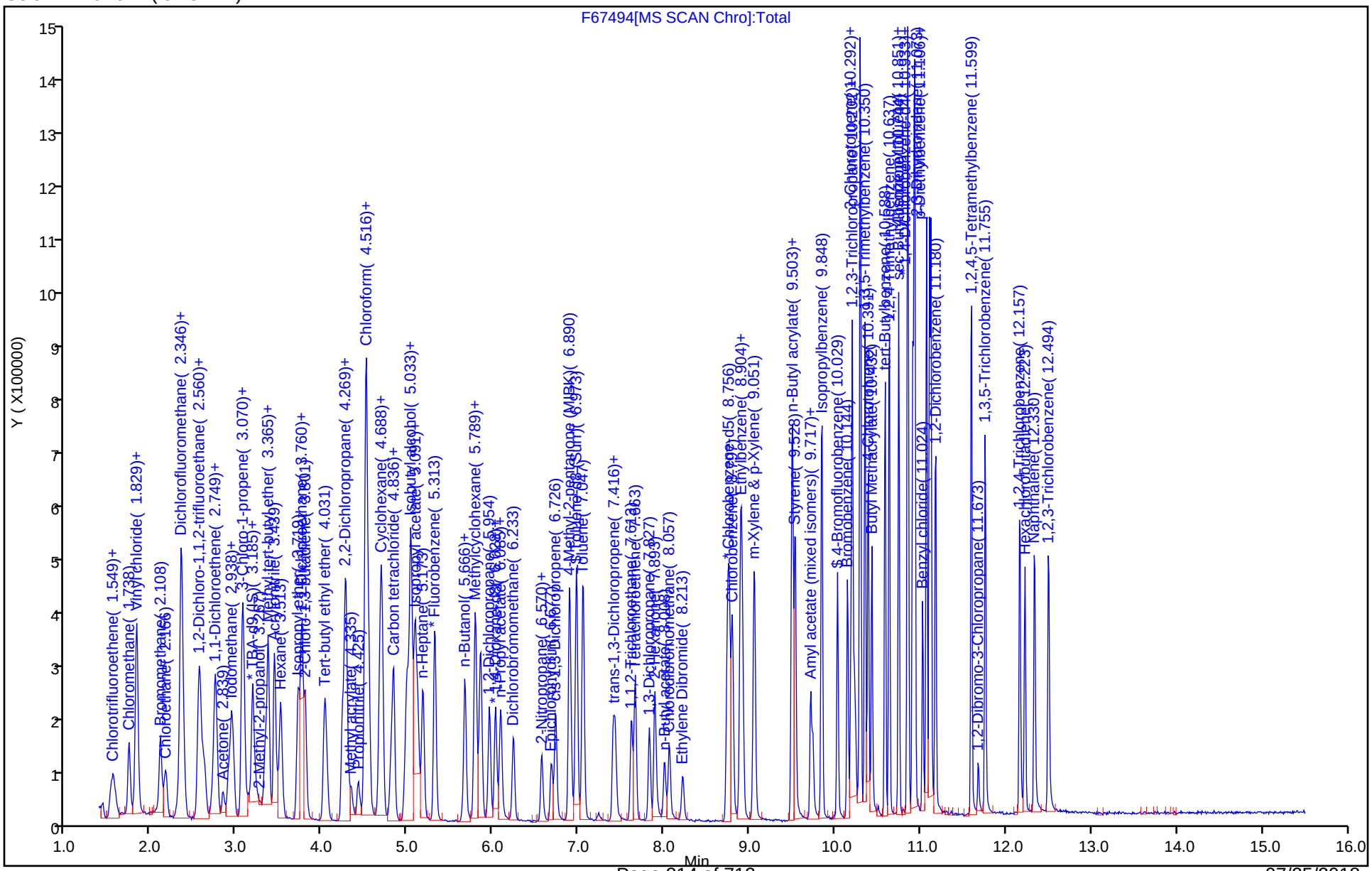
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

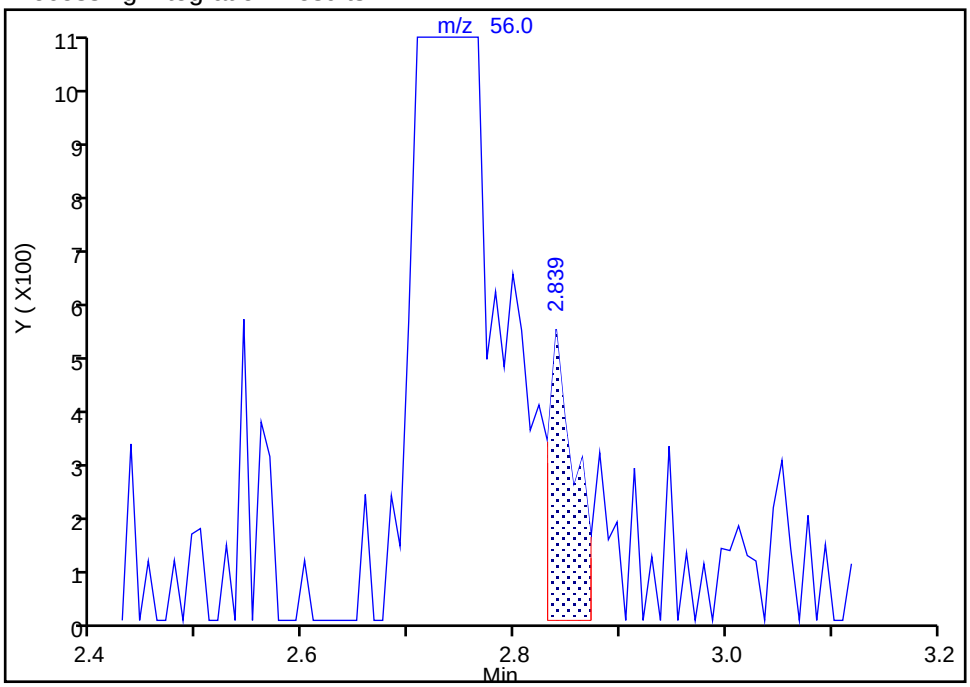
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 Acrolein, CAS: 107-02-8

Signal: 1

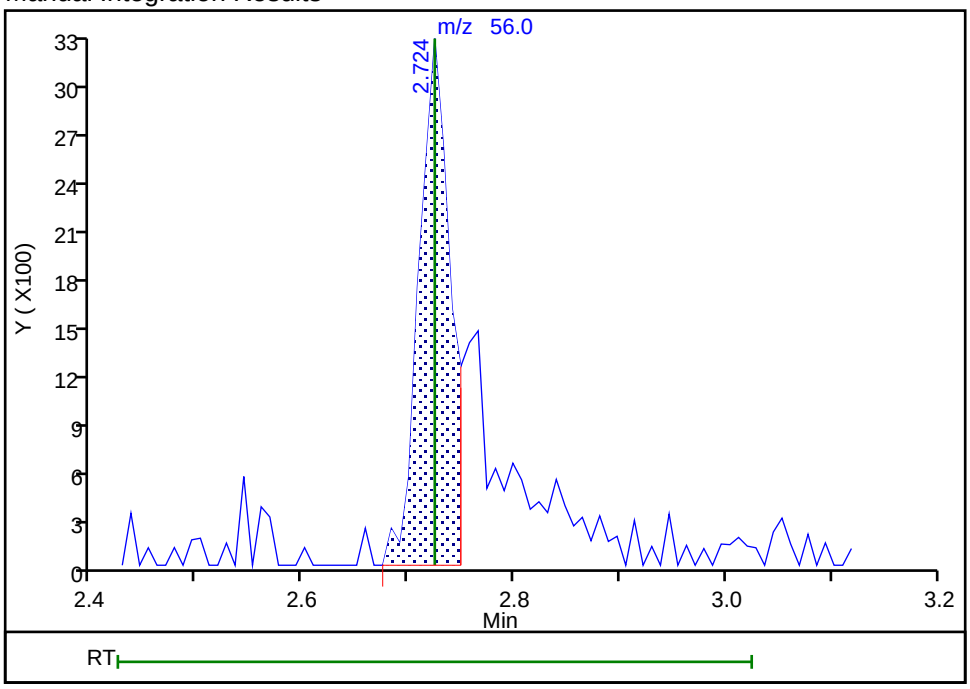
Processing Integration Results

RT: 2.84
Area: 944
Amount: 3.534701
Amount Units: ug/l



Manual Integration Results

RT: 2.72
Area: 6796
Amount: 25.446850
Amount Units: ug/l



Reviewer: parekhv, 09-Jul-2018 18:51:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

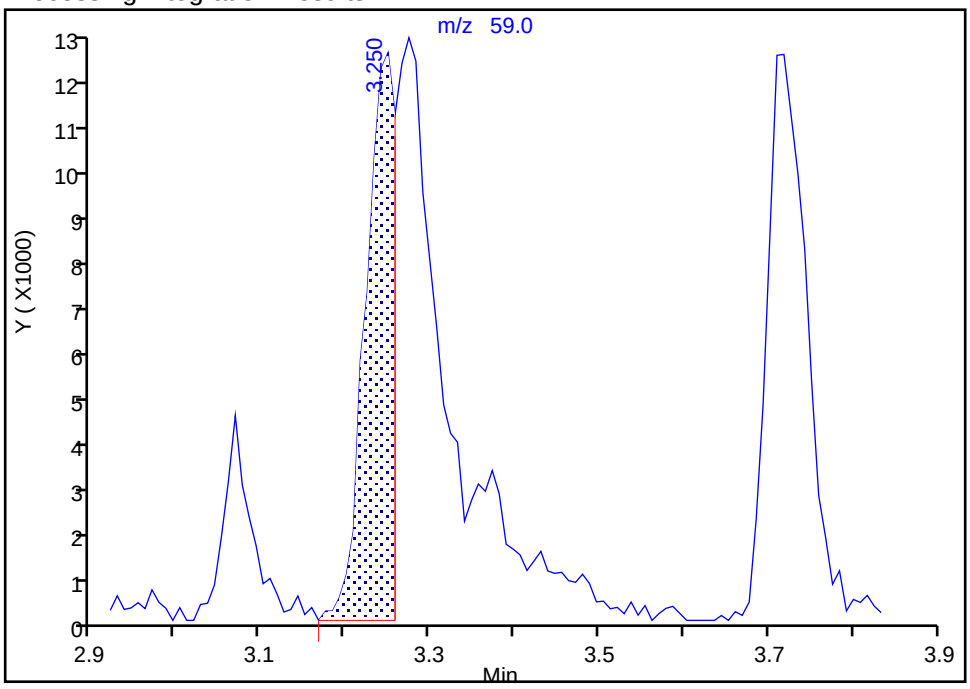
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

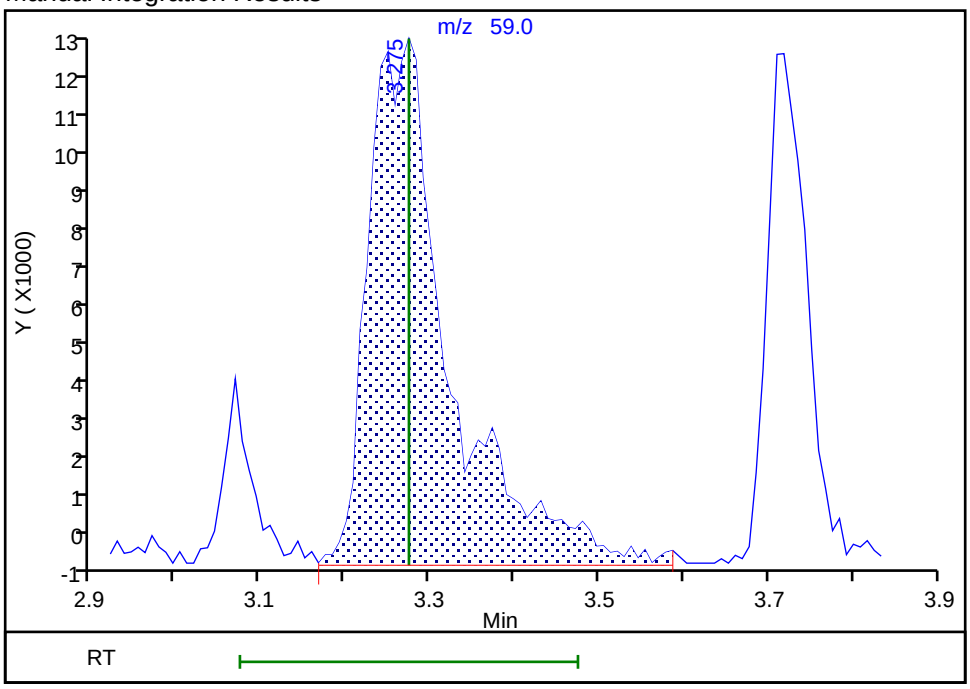
Processing Integration Results

RT: 3.25
Area: 29092
Amount: 100.6521
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 80894
Amount: 279.8760
Amount Units: ug/l



Reviewer: moroneyc, 10-Jul-2018 06:21:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.3804		20.6	20.0	3.2	20.0
Dichlorodifluoromethane	Ave	0.8896	0.9664	0.1000	21.7	20.0	8.6	20.0
Chloromethane	Ave	1.087	1.029	0.1000	18.9	20.0	-5.3	20.0
Butadiene	Ave	0.9872	1.026		20.8	20.0	3.9	20.0
Vinyl chloride	Ave	1.086	1.117	0.1000	20.6	20.0	2.8	20.0
Bromomethane	Ave	0.7505	0.7745	0.1000	20.6	20.0	3.2	50.0
Chloroethane	Ave	0.6452	0.6882	0.1000	21.3	20.0	6.7	50.0
Dichlorofluoromethane	Ave	1.369	1.429		20.9	20.0	4.3	20.0
Pentane	Ave	6.316	7.579		48.0	40.0	20.0	20.0
Trichlorofluoromethane	Ave	1.006	1.092	0.1000	21.7	20.0	8.6	20.0
Ethanol	Ave	0.0795	0.0761		765	800	-4.3	50.0
Ethyl ether	Ave	0.4485	0.4489		20.0	20.0	0.0	20.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.5243		20.1	20.0	0.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.5622		21.1	20.0	5.3	20.0
Acrolein	Ave	1.943	1.592		32.8	40.0	-18.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.6227	0.6628	0.1000	21.3	20.0	6.4	20.0
1,1-Dichloroethene	Ave	0.5782	0.5923	0.1000	20.5	20.0	2.4	20.0
Acetone	Ave	1.425	1.574	0.0500	110	100	10.5	50.0
Iodomethane	Ave	1.044	1.012		19.4	20.0	-3.0	20.0
Isopropyl alcohol	Ave	1.170	1.154		197	200	-1.3	50.0
Carbon disulfide	Ave	2.314	2.305	0.1000	19.9	20.0	-0.4	50.0
Allyl chloride	Ave	1.106	1.106		20.0	20.0	-0.0	20.0
Methyl acetate	Ave	0.3351	0.3413	0.1000	40.7	40.0	1.8	20.0
Cyclopentene	Ave	1.469	1.586		21.6	20.0	8.0	20.0
Acetonitrile	Ave	3.446	4.134		240	200	20.0	20.0
Methylene Chloride	Ave	0.7118	0.7199	0.1000	20.2	20.0	1.1	20.0
2-Methyl-2-propanol	Ave	2.103	2.223		211	200	5.7	50.0
Methyl tert-butyl ether	Ave	1.713	1.652	0.1000	19.3	20.0	-3.6	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6599	0.1000	20.6	20.0	3.2	20.0
Acrylonitrile	Ave	0.1912	0.2071		217	200	8.3	20.0
Hexane	Ave	0.5210	0.5520		21.2	20.0	5.9	20.0
Isopropyl ether	Ave	1.959	1.982		20.2	20.0	1.2	20.0
1,1-Dichloroethane	Ave	1.136	1.160	0.2000	20.4	20.0	2.1	20.0
Vinyl acetate	Ave	0.1098	0.1009		36.7	40.0	-8.1	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5665		20.1	20.0	0.5	20.0
Tert-butyl ethyl ether	Ave	1.835	1.810		19.7	20.0	-1.4	20.0
2,2-Dichloropropane	Ave	0.2397	0.2337		19.5	20.0	-2.5	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7274	0.1000	20.2	20.0	1.1	20.0
2-Butanone (MEK)	Ave	0.6625	0.6272	0.0500	94.7	100	-5.3	50.0
Ethyl acetate	Ave	0.6611	0.5872		35.5	40.0	-11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.5081		18.9	20.0	-5.4	20.0
Propionitrile	Ave	3.721	4.180		225	200	12.3	20.0
Chlorobromomethane	Ave	0.3319	0.3352		20.2	20.0	1.0	20.0
Tetrahydrofuran	Lin2		0.8282		44.0	40.0	10.0	20.0
Methacrylonitrile	Ave	0.2077	0.2082		200	200	0.2	20.0
Chloroform	Ave	1.026	1.065	0.2000	20.7	20.0	3.7	20.0
Cyclohexane	Ave	0.9576	1.012	0.1000	21.1	20.0	5.7	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.9340	0.1000	20.4	20.0	2.1	20.0
Carbon tetrachloride	Ave	0.7427	0.7568	0.1000	20.4	20.0	1.9	20.0
1,1-Dichloropropene	Ave	0.8095	0.8311		20.5	20.0	2.7	20.0
Isobutyl alcohol	Ave	1.692	1.699		502	500	0.4	50.0
Benzene	Ave	3.489	3.619	0.5000	20.7	20.0	3.7	20.0
Isopropyl acetate	Ave	1.466	1.443		19.7	20.0	-1.5	20.0
Tert-amyl methyl ether	Ave	1.952	1.893		19.4	20.0	-3.1	20.0
1,2-Dichloroethane	Ave	0.7395	0.6872	0.1000	18.6	20.0	-7.1	20.0
n-Heptane	Ave	0.4484	0.4959		22.1	20.0	10.6	20.0
n-Butanol	QuaF		0.3133		310	500	-37.9	50.0
Trichloroethene	Ave	0.6162	0.5954	0.2000	19.3	20.0	-3.4	20.0
Ethyl acrylate	Ave	1.338	1.392		20.8	20.0	4.0	20.0
Methylcyclohexane	Ave	1.086	1.178	0.1000	21.7	20.0	8.4	50.0
1,2-Dichloropropane	Ave	0.6384	0.6249	0.1000	19.6	20.0	-2.1	20.0
Methyl methacrylate	Lin2		0.1185		36.9	40.0	-7.8	20.0
n-Propyl acetate	Ave	0.5927	0.5537		18.7	20.0	-6.6	20.0
1,4-Dioxane	Ave	1.909	1.834		384	400	-3.9	50.0
Dibromomethane	Ave	0.3635	0.3609		19.9	20.0	-0.7	20.0
Bromodichloromethane	Ave	0.7764	0.7540	0.2000	19.4	20.0	-2.9	20.0
2-Nitropropane	Ave	0.1107	0.0972		35.1	40.0	-12.3	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.2538		18.2	20.0	-9.0	20.0
Epichlorohydrin	Ave	0.5007	0.5326		425	400	6.4	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.214	0.2000	19.2	20.0	-4.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.360	0.0500	105	100	4.8	50.0
Toluene	Ave	3.527	3.557	0.4000	20.2	20.0	0.9	20.0
trans-1,3-Dichloropropene	Ave	1.057	0.996	0.1000	18.8	20.0	-5.8	50.0
Ethyl methacrylate	Ave	0.8650	0.8285		19.2	20.0	-4.2	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.5711	0.1000	19.4	20.0	-2.8	20.0
Tetrachloroethene	Ave	0.8618	0.8996	0.2000	20.9	20.0	4.4	20.0
1,3-Dichloropropane	Ave	1.111	1.111		20.0	20.0	-0.0	20.0
2-Hexanone	Lin2		2.858	0.0500	95.0	100	-5.0	50.0
n-Butyl acetate	Lin2		0.9519		19.2	20.0	-3.8	20.0
Dibromochloromethane	Ave	0.7612	0.7152	0.1000	18.8	20.0	-6.0	50.0
1,2-Dibromoethane	Ave	0.6407	0.6357	0.1000	19.8	20.0	-0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.230	0.5000	20.1	20.0	0.4	20.0
Ethylbenzene	Ave	1.283	1.274	0.1000	19.9	20.0	-0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.8441		20.1	20.0	0.3	20.0
m-Xylene & p-Xylene	Ave	1.528	1.501	0.1000	19.6	20.0	-1.8	20.0
n-Butyl acrylate	Lin2		0.5248		18.3	20.0	-8.5	20.0
o-Xylene	Ave	1.580	1.578	0.3000	20.0	20.0	-0.1	20.0
Styrene	Ave	2.456	2.470	0.3000	20.1	20.0	0.6	20.0
Bromoform	Ave	0.4880	0.4719	0.1000	19.3	20.0	-3.3	20.0
Isopropylbenzene	Ave	3.798	4.123	0.1000	21.7	20.0	8.6	20.0
Bromobenzene	Ave	1.728	1.667		19.3	20.0	-3.5	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.571	0.3000	19.3	20.0	-3.6	20.0
N-Propylbenzene	Ave	7.921	8.071		20.4	20.0	1.9	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4388		19.1	20.0	-4.5	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.3272		18.0	20.0	-9.9	20.0
2-Chlorotoluene	Ave	5.582	5.643		20.2	20.0	1.1	20.0
4-Ethyltoluene	Ave	6.531	6.847		21.0	20.0	4.8	20.0
1,3,5-Trimethylbenzene	Ave	5.756	5.803		20.2	20.0	0.8	20.0
4-Chlorotoluene	Ave	4.937	4.842		19.6	20.0	-1.9	20.0
Butyl Methacrylate	Qua2		1.743		18.0	20.0	-9.8	20.0
tert-Butylbenzene	Ave	4.643	4.516		19.5	20.0	-2.7	20.0
1,2,4-Trimethylbenzene	Ave	5.856	5.891		20.1	20.0	0.6	20.0
sec-Butylbenzene	Ave	7.151	7.301		20.4	20.0	2.1	20.0
4-Isopropyltoluene	Ave	6.041	6.148		20.4	20.0	1.8	20.0
1,3-Dichlorobenzene	Ave	3.388	3.355	0.6000	19.8	20.0	-1.0	20.0
1,4-Dichlorobenzene	Ave	3.493	3.486	0.5000	20.0	20.0	-0.2	20.0
1,2,3-Trimethylbenzene	Ave	6.222	6.270		20.2	20.0	0.8	20.0
Benzyl chloride	Ave	3.109	3.115		20.0	20.0	0.2	50.0
Indan	Ave	6.256	6.257		20.0	20.0	0.0	20.0
p-Diethylbenzene	Ave	3.719	3.845		20.7	20.0	3.4	20.0
n-Butylbenzene	Ave	3.445	3.482		20.2	20.0	1.1	20.0
1,2-Dichlorobenzene	Ave	3.393	3.375	0.4000	19.9	20.0	-0.5	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	5.774		19.9	20.0	-0.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.2561	0.0500	17.1	20.0	-14.7	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.598		19.6	20.0	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.233	0.2000	19.0	20.0	-5.1	20.0
Hexachlorobutadiene	Ave	1.115	1.098		19.7	20.0	-1.6	20.0
Naphthalene	Ave	4.978	4.811		19.3	20.0	-3.4	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.112		18.7	20.0	-6.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2597		52.1	50.0	4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2691		50.5	50.0	1.1	20.0
Toluene-d8 (Surr)	Ave	1.378	1.373		49.8	50.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4036	0.4068		50.4	50.0	0.8	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 06:57:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075172-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:35:43 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:31:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	82	54453	20.0	20.6	
2 Dichlorodifluoromethane	85	1.582	1.582	0.000	99	138342	20.0	21.7	
3 Chloromethane	50	1.747	1.747	0.000	100	147347	20.0	18.9	
5 Butadiene	54	1.837	1.837	0.000	94	146900	20.0	20.8	
4 Vinyl chloride	62	1.837	1.837	0.000	97	159838	20.0	20.6	
6 Bromomethane	94	2.116	2.116	0.000	97	110875	20.0	20.6	
7 Chloroethane	64	2.174	2.174	0.000	100	98522	20.0	21.3	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	204542	20.0	20.9	
10 Pentane	72	2.363	2.363	0.000	97	36740	40.0	48.0	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	54	156341	20.0	21.7	
11 Ethanol	46	2.552	2.552	0.000	73	7376	800.0	765.4	
12 Ethyl ether	59	2.552	2.552	0.000	95	64265	20.0	20.0	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	75059	20.0	20.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.626	0.000	95	80489	20.0	21.1	
15 Acrolein	56	2.733	2.733	0.000	85	7717	40.0	32.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	94887	20.0	21.3	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	84795	20.0	20.5	
18 Acetone	43	2.848	2.848	0.000	90	91588	100.0	110.5	
19 Iodomethane	142	2.914	2.914	0.000	97	144934	20.0	19.4	
20 Isopropyl alcohol	45	2.930	2.930	0.000	35	27968	200.0	197.3	
21 Carbon disulfide	76	2.946	2.946	0.000	99	330031	20.0	19.9	
22 3-Chloro-1-propene	41	3.070	3.070	0.000	93	158292	20.0	20.0	
24 Methyl acetate	43	3.078	3.078	0.000	81	97705	40.0	40.7	
23 Cyclopentene	67	3.086	3.086	0.000	94	227075	20.0	21.6	
25 Acetonitrile	41	3.152	3.152	0.000	86	100204	200.0	239.9	a
27 Methylene Chloride	84	3.193	3.193	0.000	91	103058	20.0	20.2	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	121188	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.259	3.259	0.000	53	53882	200.0	211.4	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	236479	20.0	19.3	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	93	94474	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	95	296400	200.0	216.6	
32 Hexane	43	3.522	3.522	0.000	91	79021	20.0	21.2	
33 Isopropyl ether	45	3.727	3.727	0.000	95	283667	20.0	20.2	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	166095	20.0	20.4	
35 Vinyl acetate	86	3.776	3.776	0.000	100	28885	40.0	36.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	91	81103	20.0	20.1	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	89	259127	20.0	19.7	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	145426	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	92	33458	20.0	19.5	
40 cis-1,2-Dichloroethene	96	4.278	4.278	0.000	96	104128	20.0	20.2	
42 Ethyl acetate	70	4.286	4.286	0.000	96	13662	40.0	35.5	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	36482	100.0	94.7	
43 Methyl acrylate	55	4.343	4.343	0.000	98	51379	20.0	18.9	a
44 Propionitrile	54	4.425	4.425	0.000	98	101303	200.0	224.7	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	47991	20.0	20.2	
46 Tetrahydrofuran	72	4.508	4.508	0.000	54	19270	40.0	44.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	298089	200.0	200.5	
48 Chloroform	83	4.549	4.549	0.000	99	152414	20.0	20.7	
49 Cyclohexane	84	4.680	4.680	0.000	92	144929	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	98	133703	20.0	20.4	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	92941	50.0	52.1	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	108345	20.0	20.4	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	98	118981	20.0	20.5	
54 Isobutyl alcohol	43	4.992	4.992	0.000	92	102965	500.0	502.1	
55 Benzene	78	5.033	5.033	0.000	95	365935	20.0	20.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	96305	50.0	50.5	
57 Isopropyl acetate	43	5.091	5.091	0.000	95	206554	20.0	19.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	270937	20.0	19.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	98383	20.0	18.6	
60 n-Heptane	57	5.181	5.181	0.000	90	70984	20.0	22.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	357893	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	62	18985	500.0	310.4	
63 Trichloroethene	95	5.674	5.674	0.000	99	85242	20.0	19.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	199312	20.0	20.8	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	168601	20.0	21.7	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	93	89465	20.0	19.6	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	12896	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.036	0.000	86	33916	40.0	36.9	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	79263	20.0	18.7	
71 Dibromomethane	93	6.093	6.093	0.000	92	51658	20.0	19.9	
69 1,4-Dioxane	88	6.093	6.093	0.000	28	9462	400.0	384.4	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	107937	20.0	19.4	
73 2-Nitropropane	41	6.570	6.570	0.000	80	27816	40.0	35.1	
74 2-Chloroethyl vinyl ether	63	6.578	6.578	0.000	75	36339	20.0	18.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	123915	400.0	425.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	122729	20.0	19.2	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	311777	100.0	104.8	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	347192	50.0	49.8	
79 Toluene	91	7.055	7.055	0.000	93	359752	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	100680	20.0	18.8	
81 Ethyl methacrylate	69	7.433	7.433	0.000	86	83778	20.0	19.2	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	57748	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	90976	20.0	20.9	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	112342	20.0	20.0	
85 2-Hexanone	43	7.893	7.893	0.000	94	166242	100.0	95.0	
86 n-Butyl acetate	43	8.008	8.008	0.000	97	96260	20.0	19.2	
87 Chlorodibromomethane	129	8.066	8.066	0.000	97	72329	20.0	18.8	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	64284	20.0	19.8	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	252815	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	225530	20.0	20.1	
91 Ethylbenzene	106	8.895	8.895	0.000	98	128840	20.0	19.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	85355	20.0	20.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	151814	20.0	19.6	
94 n-Butyl acrylate	73	9.495	9.495	0.000	96	53068	20.0	18.3	
95 o-Xylene	106	9.503	9.503	0.000	94	159577	20.0	20.0	
96 Styrene	104	9.536	9.536	0.000	96	249735	20.0	20.1	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	115511	20.0	17.7	
98 Bromoform	173	9.742	9.742	0.000	97	47720	20.0	19.3	
99 Isopropylbenzene	105	9.849	9.849	0.000	95	416986	20.0	21.7	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	102850	50.0	50.4	
101 Bromobenzene	156	10.153	10.153	0.000	97	100996	20.0	19.3	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	95176	20.0	19.3	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	489081	20.0	20.4	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	95	26592	20.0	19.1	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	77	19830	20.0	18.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	341955	20.0	20.2	
107 4-Ethyltoluene	105	10.301	10.301	0.000	98	414889	20.0	21.0	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	351643	20.0	20.2	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	293385	20.0	19.6	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	105643	20.0	18.0	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	273661	20.0	19.5	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	357003	20.0	20.1	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	442431	20.0	20.4	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	372525	20.0	20.4	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	203284	20.0	19.8	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	151493	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	211222	20.0	20.0	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	379949	20.0	20.2	
118 Benzyl chloride	91	11.024	11.024	0.000	99	188752	20.0	20.0	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	379129	20.0	20.0	
120 p-Diethylbenzene	119	11.098	11.098	0.000	94	233017	20.0	20.7	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	211011	20.0	20.2	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	204499	20.0	19.9	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	349915	20.0	19.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	92	15516	20.0	17.1	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	97	157438	20.0	19.6	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	95	135326	20.0	19.0	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	96	66511	20.0	19.7	
128 Naphthalene	128	12.314	12.314	0.000	99	291519	20.0	19.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	128008	20.0	18.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.9	
S 131 Xylenes, Total	100				0		40.0	39.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 13:35:46 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D

Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6 Operator ID:

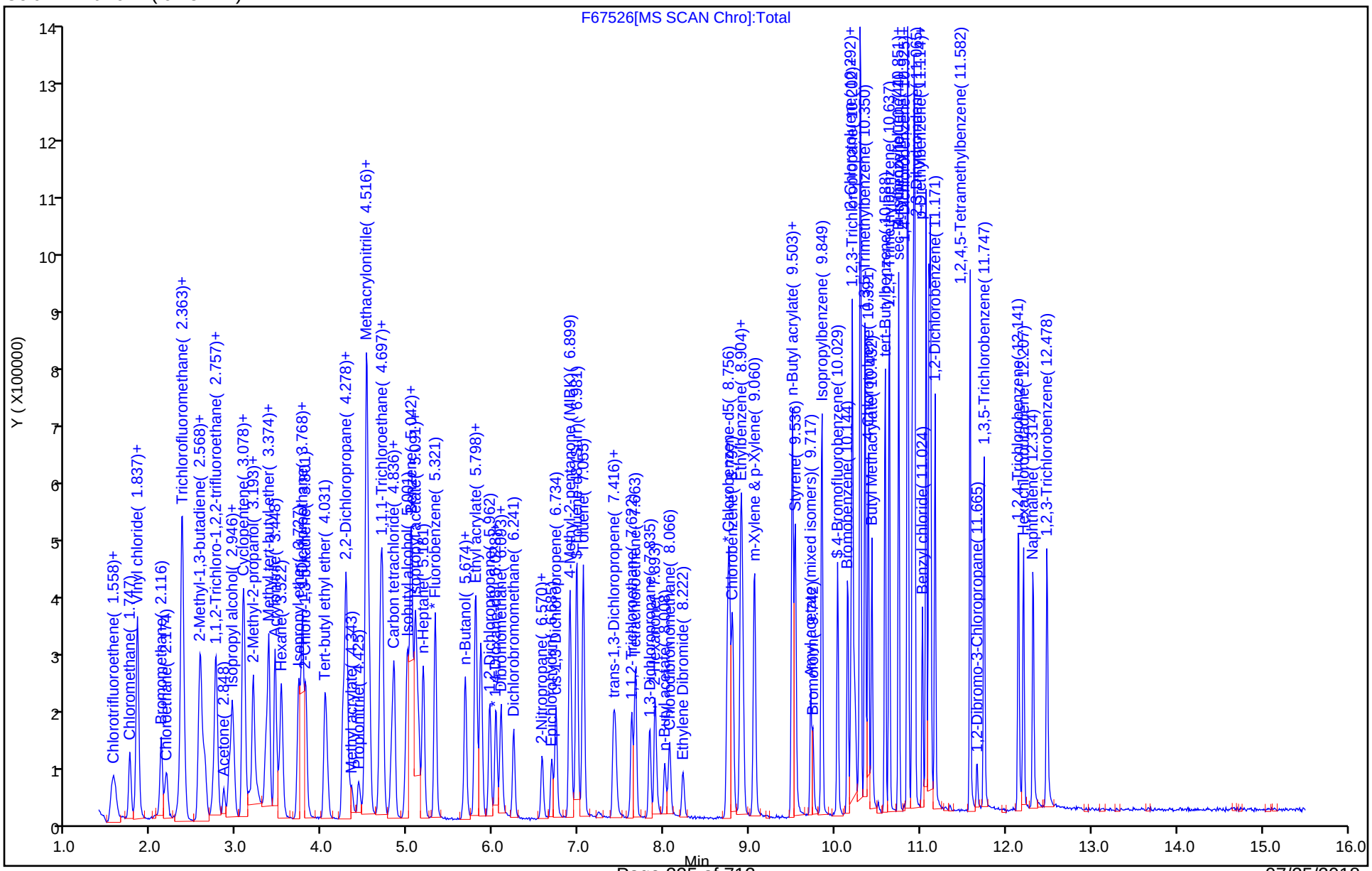
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

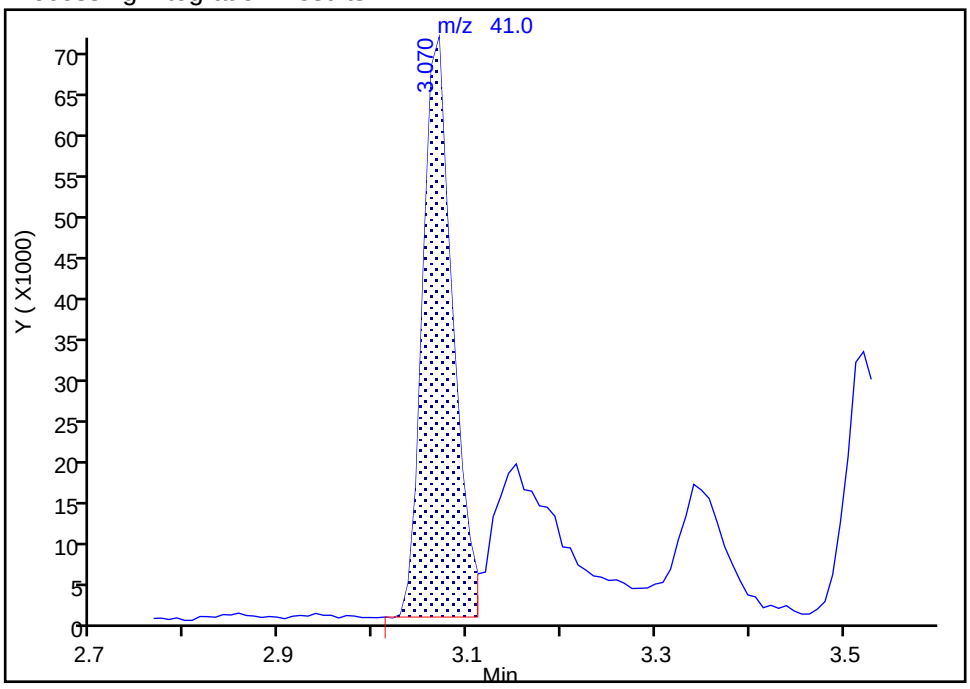
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

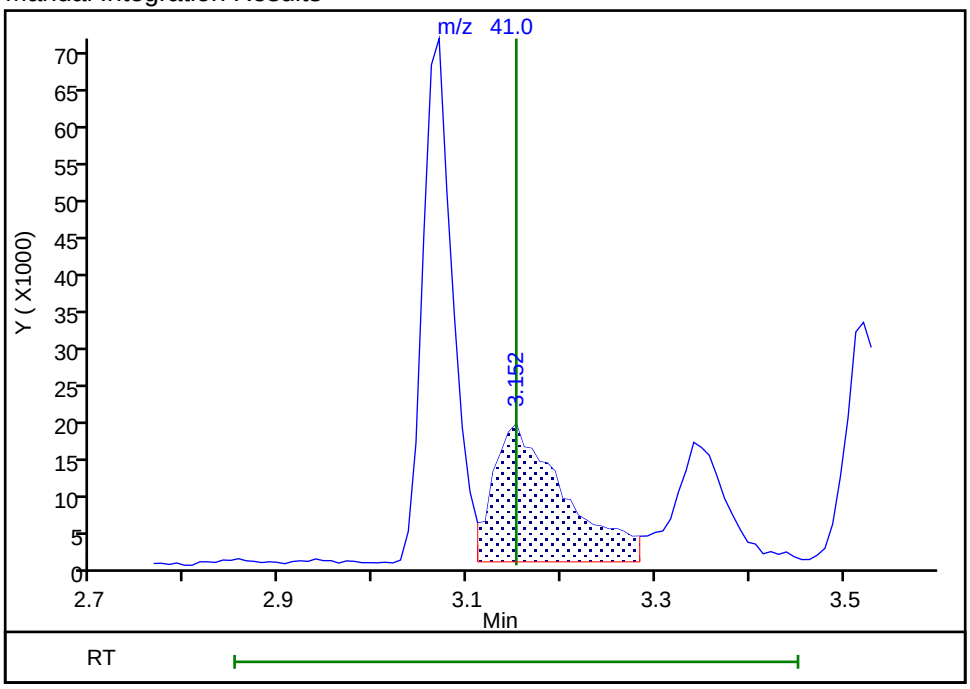
Processing Integration Results

RT: 3.07
Area: 157707
Amount: 377.5875
Amount Units: ug/l



Manual Integration Results

RT: 3.15
Area: 100204
Amount: 239.9119
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:34:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

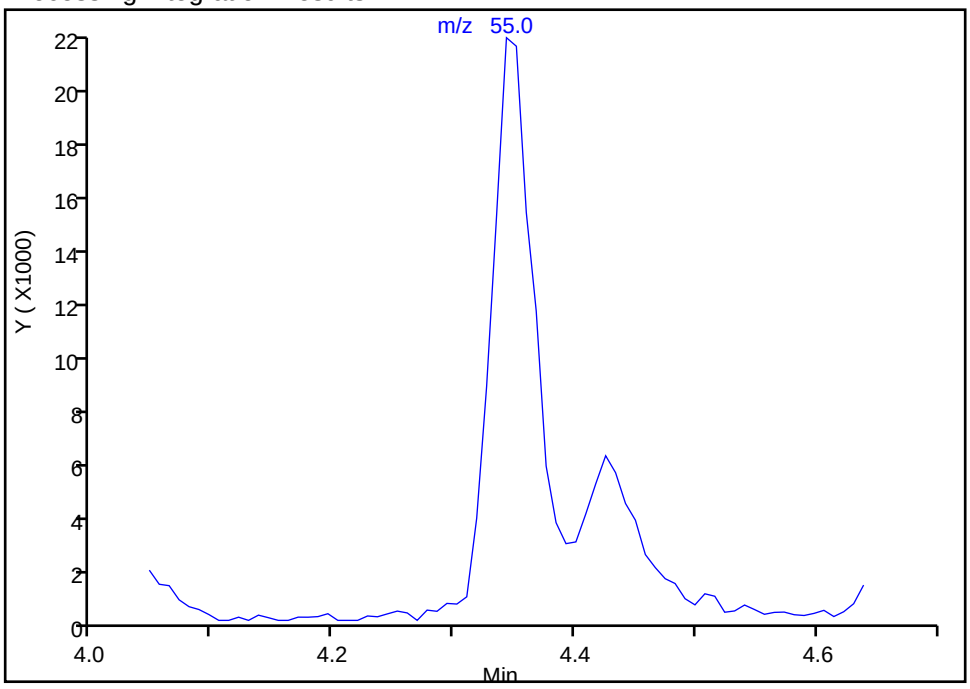
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

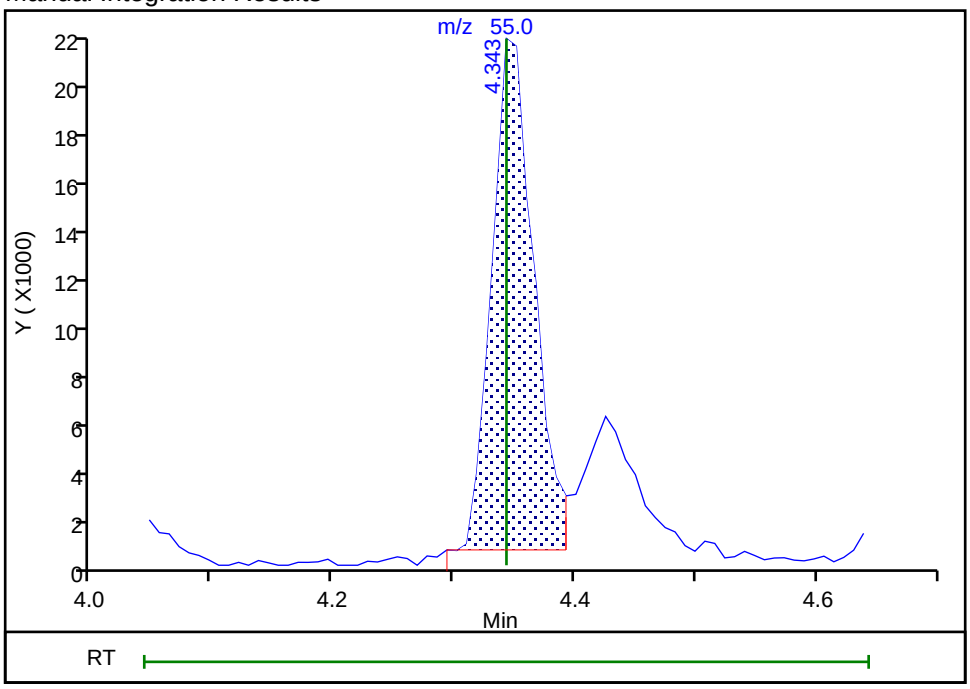
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 51379
Amount: 18.917480
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:34:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Jul-2018 07:26:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075068-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:37:29 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.408	3.408	0.000	91	42762	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

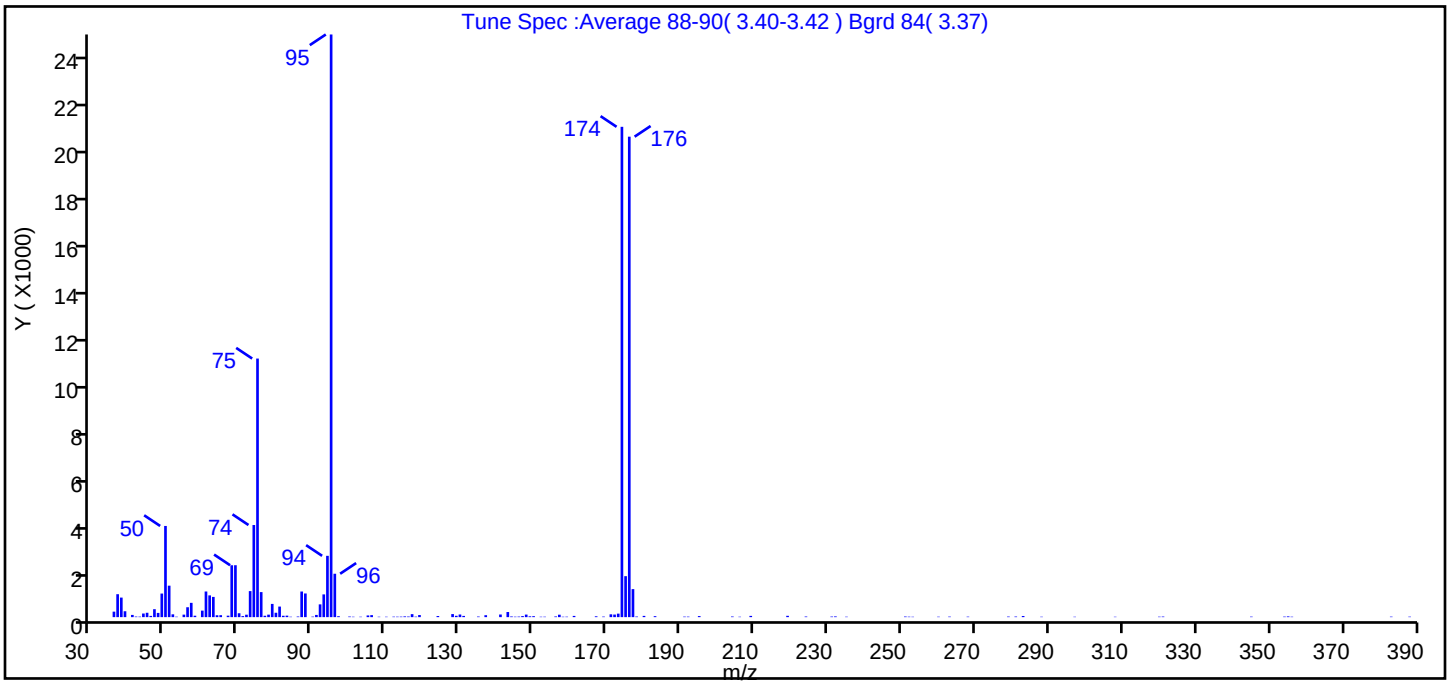
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Injection Date: 08-Jul-2018 07:26:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.4
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	84.2
175	5 to 9% of m/z 174	7.0 (8.4)
176	Greater than 95% but less than 101% of m/z 174	82.5 (98.0)
177	5 to 9% of m/z 176	4.8 (5.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	228	75.00	10708	119.00	87	183.00	40
37.00	950	76.00	1037	124.00	46	191.00	21
38.00	810	77.00	57	128.00	127	192.00	21
39.00	244	78.00	103	129.00	56	195.00	44
41.00	92	79.00	548	130.00	109	204.00	26
42.00	24	80.00	182	131.00	51	206.00	17
43.00	21	81.00	438	135.00	25	209.00	52
44.00	150	82.00	57	137.00	80	219.00	55
45.00	181	83.00	62	141.00	109	224.00	26
46.00	52	84.00	17	143.00	212	231.00	24
47.00	329	86.00	26	144.00	28	232.00	30
48.00	175	87.00	1061	145.00	19	235.00	18
49.00	977	88.00	980	146.00	23	251.00	25
50.00	3776	90.00	22	147.00	43	252.00	19
51.00	1303	91.00	92	148.00	106	253.00	16
52.00	117	92.00	529	149.00	34	260.00	18
53.00	18	93.00	942	150.00	40	263.00	22
55.00	104	94.00	2539	152.00	17	268.00	20
56.00	410	95.00	24128	153.00	18	279.00	24
57.00	592	96.00	1797	156.00	29	281.00	25
58.00	59	97.00	38	157.00	101	283.00	46
60.00	270	100.00	25	158.00	17	288.00	17
61.00	1062	101.00	17	159.00	19	297.00	16
62.00	901	103.00	17	161.00	51	308.00	16
63.00	838	105.00	70	167.00	35	320.00	19
64.00	78	106.00	83	169.00	23	321.00	24
65.00	81	108.00	17	171.00	117	345.00	21
67.00	61	110.00	17	172.00	107	354.00	22
68.00	2148	112.00	20	173.00	145	355.00	31
69.00	2150	113.00	19	174.00	20304	356.00	18
70.00	161	114.00	21	175.00	1697	383.00	21
71.00	43	115.00	31	176.00	19896	388.00	20
72.00	101	116.00	25	177.00	1161		

Report Date: 08-Jul-2018 18:37:29 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1078	117.00	124	178.00	25		
74.00	3815	118.00	20	180.00	52		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jul-2018 17:40:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075142-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 05:44:14 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 18:11:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.392	3.392	0.000	87	72902	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

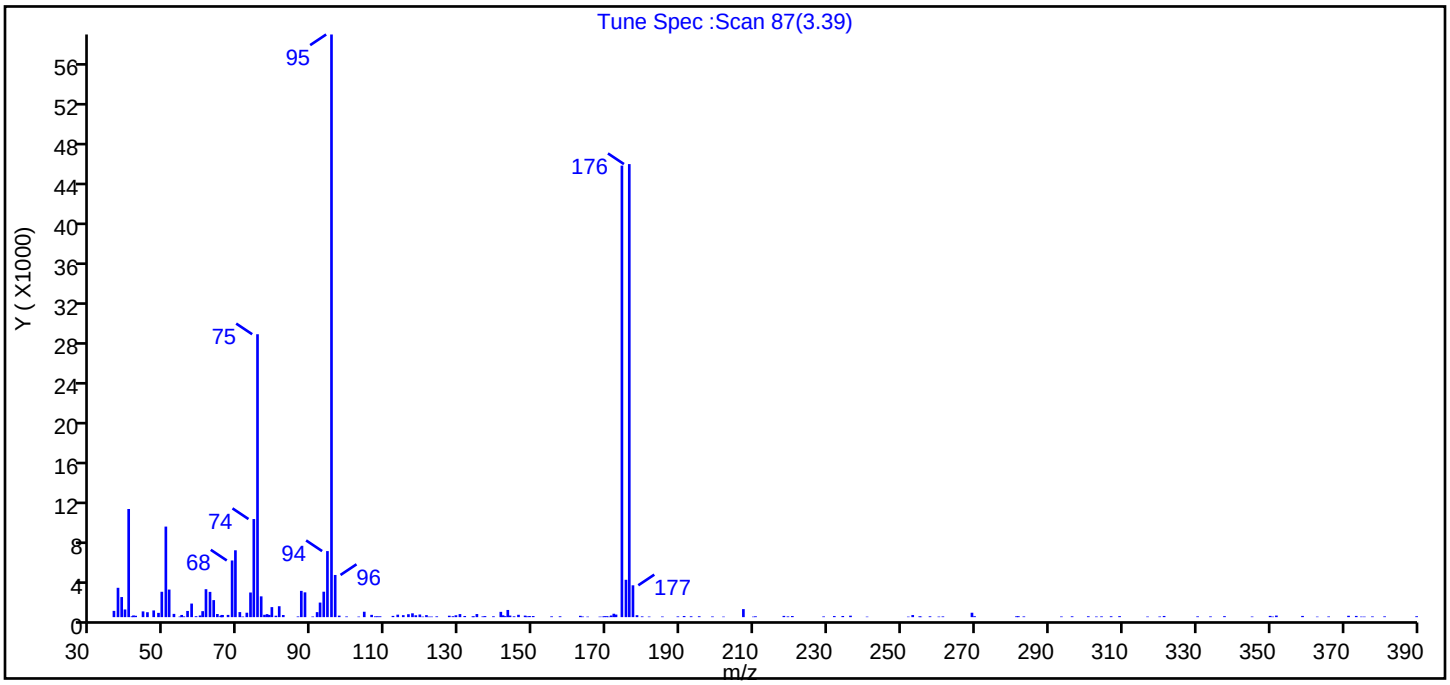
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D
Injection Date: 09-Jul-2018 17:40:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	48.6
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.5
175	5 to 9% of m/z 174	6.4 (8.3)
176	Greater than 95% but less than 101% of m/z 174	77.8 (100.3)
177	5 to 9% of m/z 176	5.5 (7.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D\8260624W6.rslt\spectra.d
Injection Date: 09-Jul-2018 17:40:30
Spectrum: Tune Spec :Scan 87(3.39)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 177

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	632	80.00	143	141.70	185	234.00	117
37.10	2954	80.90	1100	142.30	99	236.10	148
38.10	2021	82.00	214	143.00	723	240.60	50
39.00	774	86.00	69	143.60	159	251.80	50
40.00	10887	86.90	2645	144.70	82	253.00	210
40.90	86	87.90	2497	145.90	237	254.90	79
41.30	170	90.00	65	147.70	154	255.20	53
41.90	139	91.20	503	148.20	78	257.70	83
43.90	579	92.00	1467	148.90	113	260.10	56
45.10	494	93.00	2562	149.90	112	261.20	72
46.80	675	94.00	6649	154.90	80	269.10	444
48.10	429	95.10	58656	157.20	85	269.80	94
49.00	2554	96.10	4246	162.70	133	281.20	88
50.10	9116	97.20	152	163.30	65	281.70	94
51.00	2777	99.20	70	164.70	53	283.20	72
52.30	328	102.50	55	168.00	50	293.40	65
53.90	60	104.00	544	168.80	58	296.30	83
54.40	221	106.00	230	169.30	100	300.70	86
55.00	74	107.00	79	169.90	96	302.90	62
56.00	624	107.60	89	170.40	51	304.30	75
57.10	1367	108.30	84	171.10	164	306.90	88
58.30	93	111.80	126	171.80	344	309.20	100
59.40	166	113.10	250	172.40	260	316.80	59
60.10	603	114.60	201	174.00	45456	320.10	63
61.00	2813	116.00	295	175.10	3761	321.30	119
62.10	2542	117.10	386	176.00	45608	330.40	79
63.10	1714	118.00	188	177.00	3206	333.90	72
64.10	314	119.10	266	178.10	195	337.70	99
65.00	132	119.90	57	179.50	75	345.20	60
65.30	221	120.90	204	181.40	58	350.10	125
65.50	215	121.60	53	185.00	62	350.80	56
67.00	226	122.30	57	189.20	74	351.80	159
68.10	5705	123.70	81	190.90	112	358.90	123

Report Date: 10-Jul-2018 05:44:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D\8260624W6.rslt\spectra.d
Injection Date: 09-Jul-2018 17:40:30
Spectrum: Tune Spec :Scan 87(3.39)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 177

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.00	6730	127.10	143	192.80	86	362.90	51
70.20	509	128.10	92	195.00	89	366.00	67
71.00	63	128.90	188	198.60	68	371.40	137
72.10	446	130.00	308	201.60	53	373.50	123
73.10	2481	131.30	116	207.00	809	374.90	54
74.00	9875	133.50	76	209.70	52	375.70	53
75.00	28480	133.70	76	210.30	85	377.90	72
76.00	2093	134.60	312	218.00	126	381.20	80
76.90	237	136.20	73	219.10	75	389.90	92
77.60	302	136.80	105	220.30	112		
78.20	226	139.10	84	228.80	71		
78.90	1009	141.10	533	231.70	109		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jul-2018 06:12:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075172-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:41:42 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 12:41:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.392	3.392	0.000	90	69048	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

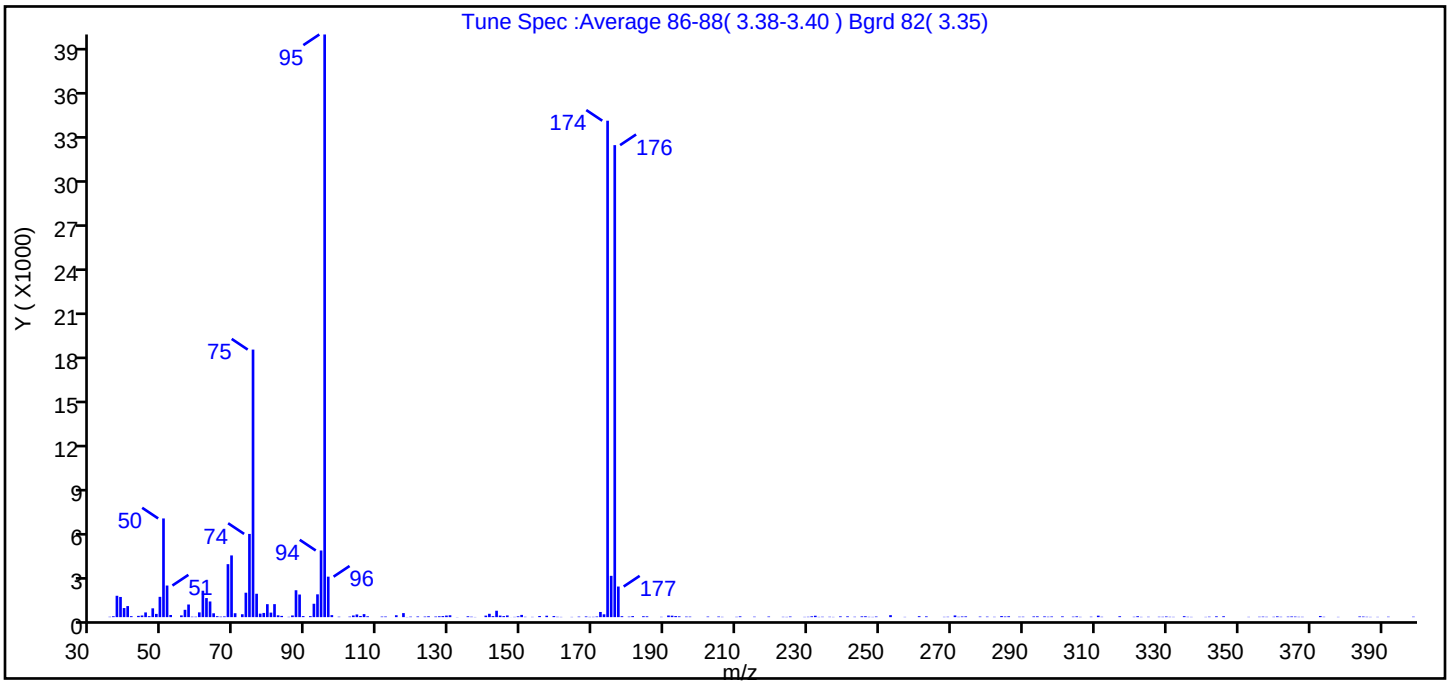
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D
Injection Date: 10-Jul-2018 06:12:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	7.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	81.0 (95.1)
177	5 to 9% of m/z 176	5.3 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D\8260624W6.rslt\spectra.d
Injection Date: 10-Jul-2018 06:12:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	24	95.00	39512	175.00	2801	285.00	41
36.00	60	96.00	2745	176.00	32008	286.00	59
37.00	1449	97.00	136	177.00	2076	289.00	27
38.00	1369	99.00	29	178.00	64	290.00	29
39.00	617	102.00	35	180.00	35	293.00	48
40.00	750	103.00	113	181.00	69	294.00	54
41.00	65	104.00	182	184.00	61	296.00	49
43.00	87	105.00	79	185.00	55	297.00	28
44.00	112	106.00	205	189.00	21	298.00	43
45.00	320	107.00	57	191.00	111	301.00	51
46.00	65	111.00	38	192.00	99	304.00	33
47.00	598	112.00	41	193.00	72	305.00	54
48.00	220	115.00	128	194.00	54	306.00	19
49.00	1377	117.00	274	196.00	37	309.00	29
50.00	6693	118.00	11	197.00	35	311.00	99
51.00	2144	119.00	34	202.00	39	312.00	24
52.00	146	121.00	45	205.00	41	317.00	60
55.00	119	123.00	38	206.00	20	321.00	24
56.00	498	124.00	57	210.00	22	322.00	62
57.00	857	126.00	41	211.00	53	323.00	18
58.00	31	127.00	59	215.00	31	325.00	24
59.00	29	128.00	72	219.00	41	328.00	26
60.00	323	129.00	107	223.00	22	329.00	25
61.00	1793	130.00	128	224.00	17	330.00	45
62.00	1294	132.00	10	225.00	41	331.00	22
63.00	1063	135.00	59	229.00	18	332.00	19
64.00	261	136.00	28	230.00	24	335.00	64
65.00	64	137.00	12	231.00	56	336.00	23
66.00	33	140.00	103	232.00	95	337.00	17
67.00	49	141.00	227	233.00	17	341.00	17
68.00	3593	142.00	68	234.00	26	342.00	31
69.00	4186	143.00	434	236.00	25	344.00	55
70.00	265	144.00	106	237.00	16	346.00	59

Report Date: 10-Jul-2018 12:41:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D\8260624W6.rslt\spectra.d
Injection Date: 10-Jul-2018 06:12:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	1	145.00	71	239.00	52	353.00	19
72.00	197	146.00	116	241.00	54	356.00	27
73.00	1657	147.00	3	243.00	26	357.00	35
74.00	5644	148.00	18	245.00	53	358.00	24
75.00	18144	149.00	57	246.00	60	360.00	24
76.00	1586	150.00	151	247.00	22	361.00	53
77.00	238	151.00	24	248.00	17	362.00	24
78.00	285	153.00	18	249.00	42	364.00	34
79.00	880	155.00	77	253.00	134	365.00	45
80.00	306	157.00	96	257.00	17	366.00	38
81.00	882	159.00	73	261.00	64	367.00	23
82.00	124	160.00	24	263.00	52	368.00	22
83.00	85	161.00	16	268.00	20	373.00	74
85.00	21	164.00	16	269.00	25	374.00	24
86.00	114	166.00	35	271.00	114	378.00	17
87.00	1824	168.00	48	272.00	24	384.00	46
88.00	1534	169.00	19	273.00	45	385.00	39
89.00	71	170.00	22	274.00	52	386.00	24
91.00	66	171.00	42	278.00	39	387.00	17
92.00	908	172.00	351	280.00	36	389.00	18
93.00	1547	173.00	193	282.00	22	392.00	29
94.00	4520	174.00	33664	284.00	72	399.00	31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534740/9

Matrix: Water | Lab File ID: F67500.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534740/9

Matrix: Water | Lab File ID: F67500.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		74-132
460-00-4	4-Bromofluorobenzene	100		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2018 20:53:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075142-009
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:38:31 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	133811	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	149347	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	95	101338	50.0	54.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	97251	50.0	49.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	372443	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.019	6.028	-0.009	0	11252	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	345171	50.0	51.1	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	244887	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	94	99081	50.0	50.1	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	96	136955	50.0	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

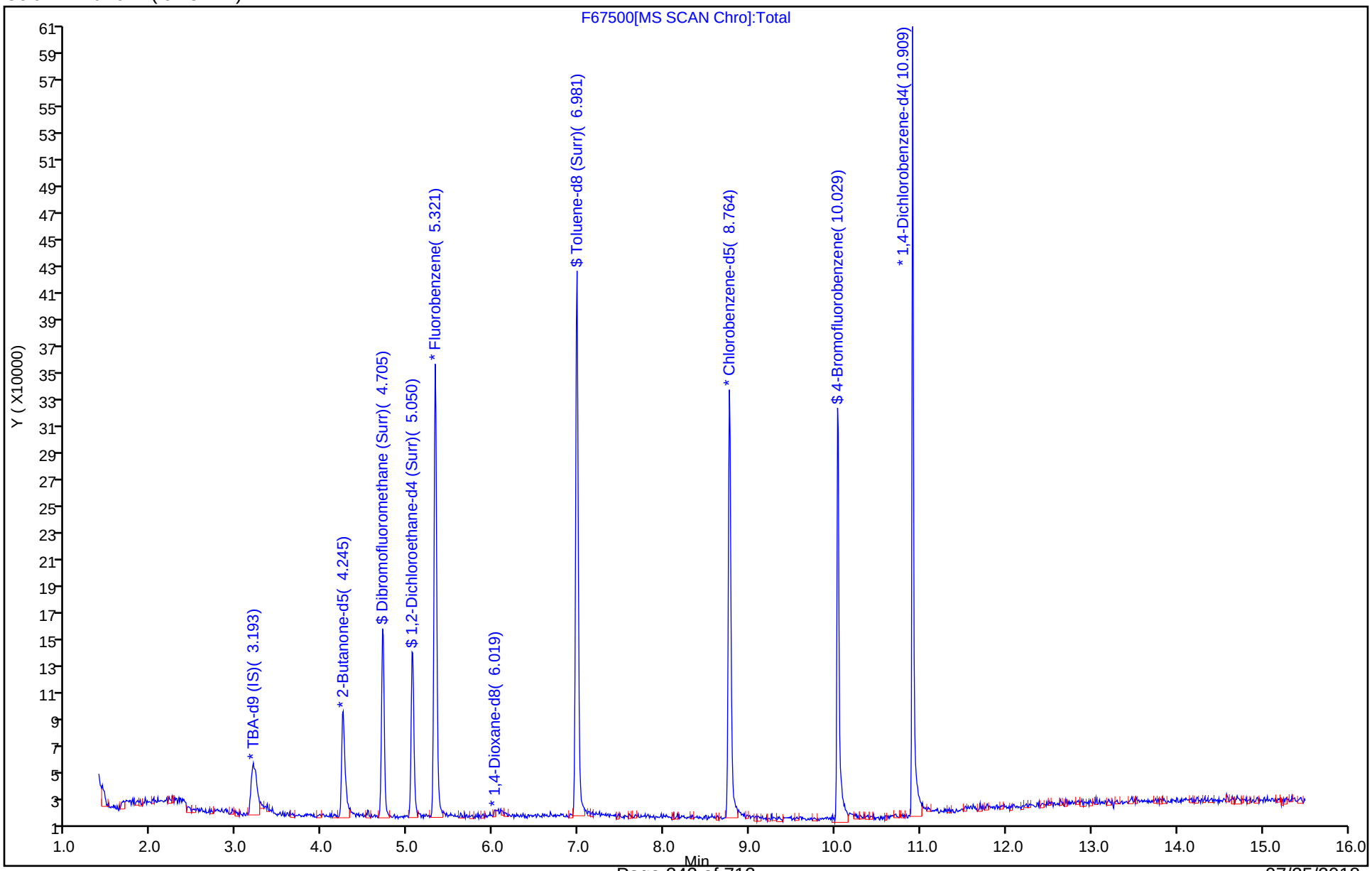
Report Date: 10-Jul-2018 06:54:21 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D

Injection Date:	09-Jul-2018 20:53:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



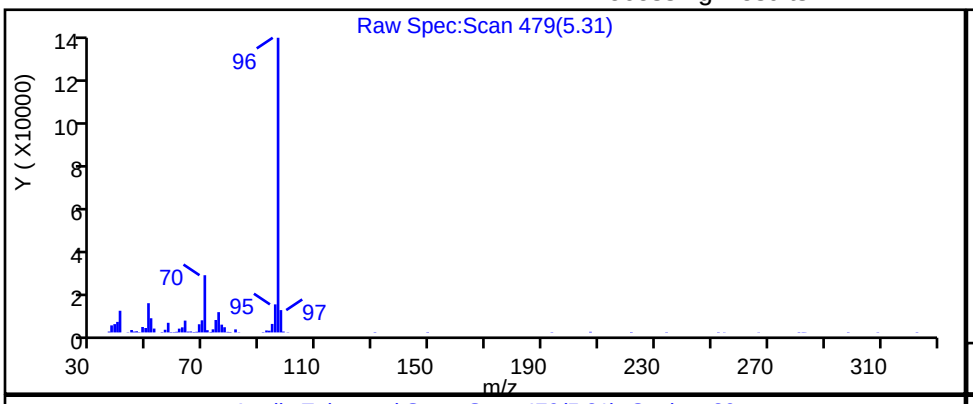
User Disabled Compound Report

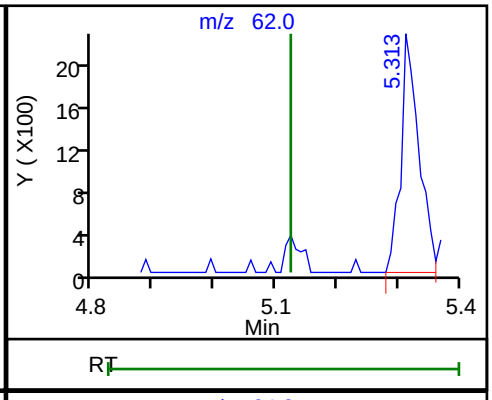
TestAmerica Edison

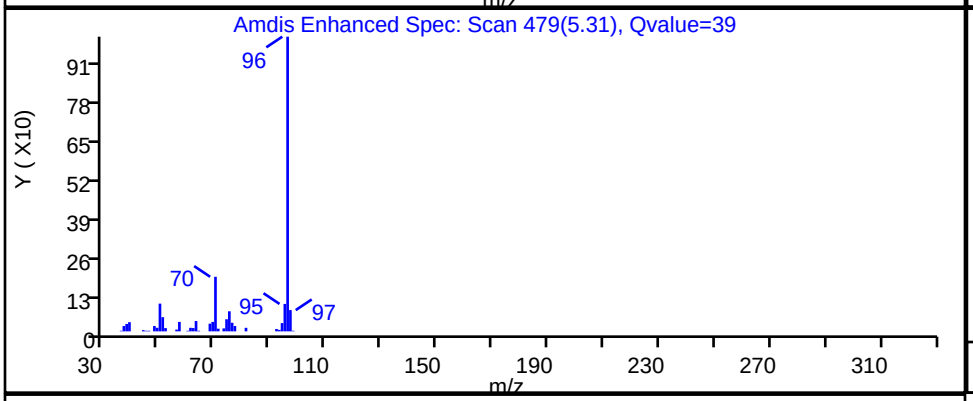
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D
Injection Date: 09-Jul-2018 20:53:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

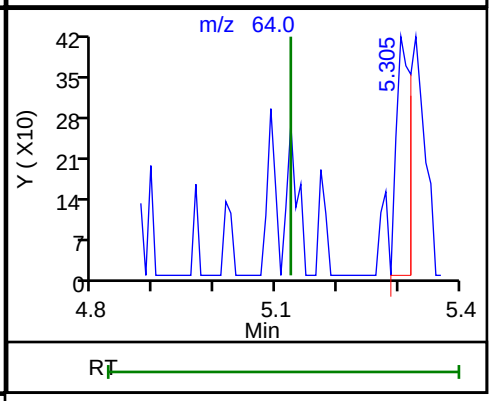
59 1,2-Dichloroethane, CAS: 107-06-2

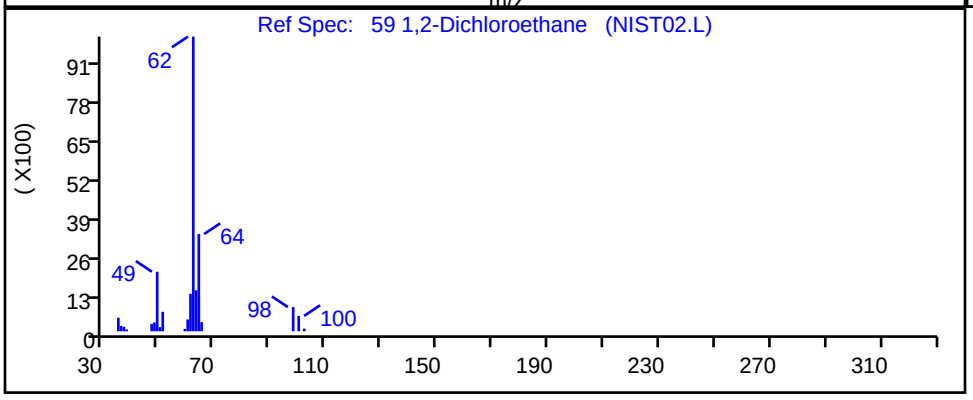
Processing Results











RT	Mass	Response	Amount
5.31	62.00	4653	0.844749
5.30	64.00	668	

Reviewer: moroneyc, 10-Jul-2018 06:26:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534889/8

Matrix: Water | Lab File ID: F67531.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534889/8

Matrix: Water | Lab File ID: F67531.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67531.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Jul-2018 08:59:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075172-008
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:40:53 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:40:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	130292	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	141829	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	97	94286	50.0	51.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	98371	50.0	50.6	
* 61 Fluorobenzene	96	5.329	5.321	0.008	99	365448	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	11293	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	333152	50.0	50.0	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	241867	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	96	93084	50.0	47.7	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	95	134703	50.0	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

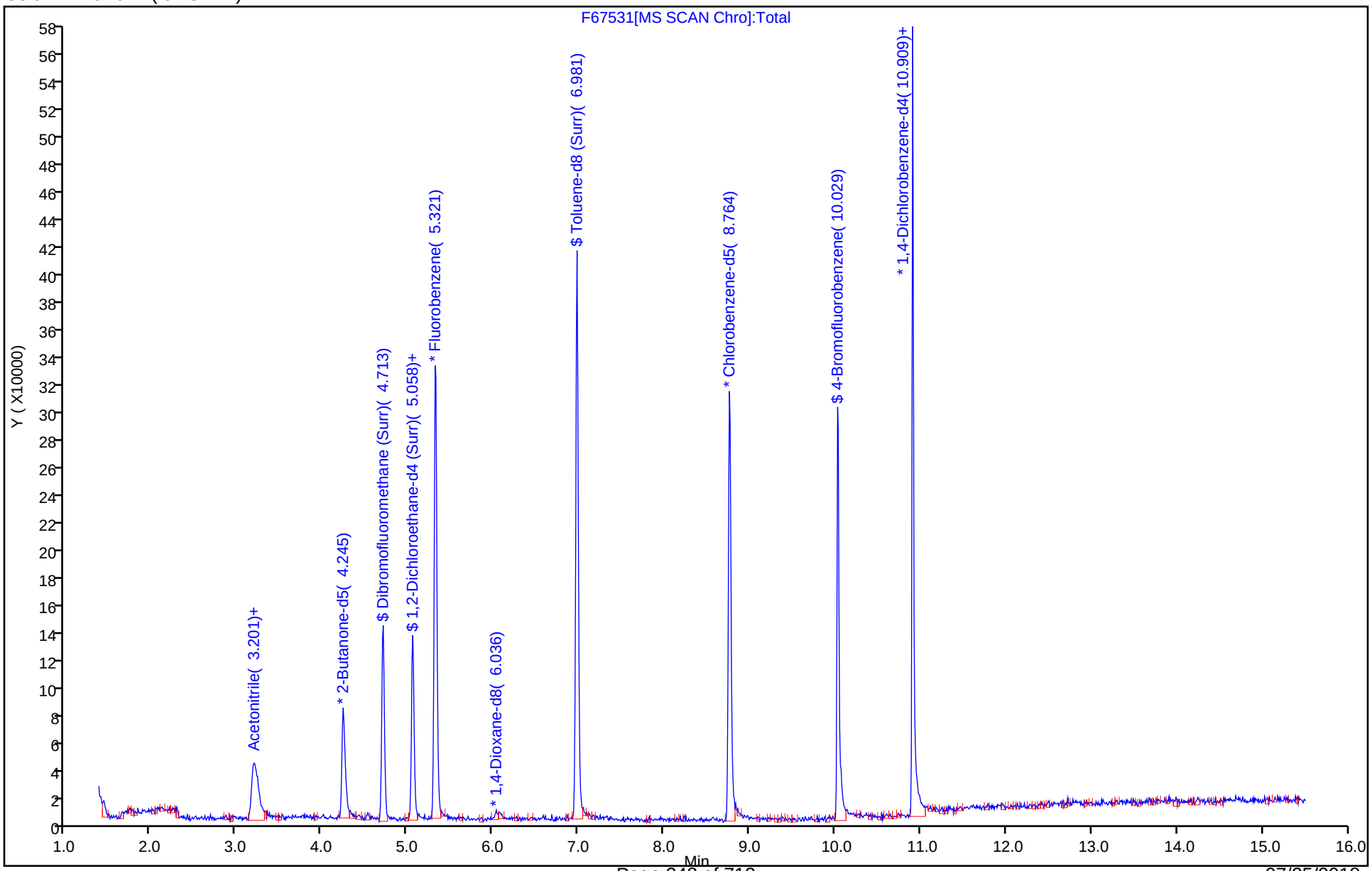
Report Date: 10-Jul-2018 13:40:55 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67531.D

Injection Date:	10-Jul-2018 08:59:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534740/4

Matrix: Water | Lab File ID: F67495.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.43
75-34-3	1,1-Dichloroethane	19.5		1.0	0.26
75-35-4	1,1-Dichloroethene	18.7		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	21.8		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	22.2		1.0	0.38
95-50-1	1,2-Dichlorobenzene	21.6		1.0	0.43
107-06-2	1,2-Dichloroethane	18.7		1.0	0.43
78-87-5	1,2-Dichloropropane	19.3		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.8		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.2		1.0	0.76
78-93-3	2-Butanone (MEK)	95.4		5.0	1.9
591-78-6	2-Hexanone	97.2		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.7
67-64-1	Acetone	107		5.0	5.0
71-43-2	Benzene	20.2		1.0	0.43
75-25-2	Bromoform	20.0		1.0	0.54
74-83-9	Bromomethane	17.4		1.0	1.0
75-15-0	Carbon disulfide	17.9		1.0	0.16
56-23-5	Carbon tetrachloride	19.1		1.0	0.21
108-90-7	Chlorobenzene	19.6		1.0	0.38
124-48-1	Dibromochloromethane	19.7		1.0	0.28
75-00-3	Chloroethane	18.2		1.0	0.32
67-66-3	Chloroform	19.4		1.0	0.33
74-87-3	Chloromethane	19.3		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.1		1.0	0.22
110-82-7	Cyclohexane	19.1		1.0	0.32
75-27-4	Bromodichloromethane	18.6		1.0	0.34
75-71-8	Dichlorodifluoromethane	18.7		1.0	0.12
100-41-4	Ethylbenzene	19.1		1.0	0.30
106-93-4	1,2-Dibromoethane	20.7		1.0	0.50
98-82-8	Isopropylbenzene	21.1		1.0	0.34
79-20-9	Methyl acetate	42.2		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534740/4

Matrix: Water | Lab File ID: F67495.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.3		1.0	0.47
108-87-2	Methylcyclohexane	18.8		1.0	0.26
75-09-2	Methylene Chloride	18.7		1.0	0.32
127-18-4	Tetrachloroethene	19.7		1.0	0.25
108-88-3	Toluene	20.0		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.1		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.1		1.0	0.49
79-01-6	Trichloroethene	18.1		1.0	0.31
75-69-4	Trichlorofluoromethane	18.2		1.0	0.14
75-01-4	Vinyl chloride	19.0		1.0	0.17
1330-20-7	Xylenes, Total	39.1		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.9		1.0	0.46
100-42-5	Styrene	20.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67495.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2018 18:55:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075142-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 19:18:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	89	54418	20.0	18.3	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	133941	20.0	18.7	
3 Chloromethane	50	1.738	1.738	0.000	98	169168	20.0	19.3	
5 Butadiene	54	1.829	1.829	0.000	96	146387	20.0	18.4	
4 Vinyl chloride	62	1.829	1.829	0.000	98	166093	20.0	19.0	
6 Bromomethane	94	2.108	2.108	0.000	99	105411	20.0	17.4	
7 Chloroethane	64	2.174	2.166	0.008	100	94828	20.0	18.2	
8 Dichlorofluoromethane	67	2.347	2.346	0.000	98	207731	20.0	18.8	
10 Pentane	72	2.355	2.355	0.000	97	33097	40.0	34.9	
9 Trichlorofluoromethane	101	2.355	2.363	-0.008	65	147428	20.0	18.2	
11 Ethanol	46	2.552	2.535	0.017	69	9078	800.0	761.0	
12 Ethyl ether	59	2.544	2.544	0.000	93	75152	20.0	20.8	
13 2-Methyl-1,3-butadiene	53	2.568	2.560	0.008	95	79704	20.0	18.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.609	0.017	91	80596	20.0	18.7	
15 Acrolein	56	2.724	2.724	0.000	32	7919	40.0	27.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	97	94697	20.0	18.9	
17 1,1-Dichloroethene	96	2.757	2.749	0.008	98	87240	20.0	18.7	
18 Acetone	43	2.840	2.839	0.001	88	105784	100.0	106.8	
19 Iodomethane	142	2.905	2.905	0.000	97	159511	20.0	19.0	
20 Isopropyl alcohol	45	2.930	2.930	0.000	27	32203	200.0	183.5	
21 Carbon disulfide	76	2.946	2.946	0.000	99	333670	20.0	17.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	99	174048	20.0	19.5	
24 Methyl acetate	43	3.070	3.070	0.000	99	113995	40.0	42.2	
23 Cyclopentene	67	3.086	3.078	0.008	96	230939	20.0	19.5	
25 Acetonitrile	41	3.152	3.135	0.017	57	106505	200.0	206.0	
27 Methylene Chloride	84	3.193	3.185	0.008	92	107442	20.0	18.7	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	150018	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.275	-0.025	91	62301	200.0	197.5	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	97	280658	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.374	3.365	0.009	93	103360	20.0	20.1	
31 Acrylonitrile	53	3.448	3.439	0.009	95	335983	200.0	218.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.522	3.513	0.009	91	75088	20.0	17.9	
33 Isopropyl ether	45	3.719	3.719	0.000	96	315094	20.0	20.0	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	178826	20.0	19.5	
35 Vinyl acetate	86	3.776	3.768	0.008	100	32659	40.0	36.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	84798	20.0	18.7	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	90	295465	20.0	20.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	173705	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.261	0.008	93	36648	20.0	19.0	
40 cis-1,2-Dichloroethene	96	4.277	4.269	0.008	96	110421	20.0	19.1	
42 Ethyl acetate	70	4.286	4.286	0.000	94	17474	40.0	38.0	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	97	43934	100.0	95.4	
43 Methyl acrylate	55	4.343	4.343	0.000	56	65117	20.0	21.9	
44 Propionitrile	54	4.425	4.417	0.008	98	117171	200.0	209.9	
45 Chlorobromomethane	128	4.499	4.491	0.008	92	50819	20.0	19.0	
46 Tetrahydrofuran	72	4.499	4.499	0.000	60	22620	40.0	43.2	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	352938	200.0	210.8	
48 Chloroform	83	4.549	4.549	0.000	99	160714	20.0	19.4	
49 Cyclohexane	84	4.680	4.680	0.000	90	147017	20.0	19.1	
50 1,1,1-Trichloroethane	97	4.697	4.688	0.009	97	136405	20.0	18.5	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	100051	50.0	49.8	
52 Carbon tetrachloride	117	4.820	4.812	0.008	94	114172	20.0	19.1	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	124131	20.0	19.0	
54 Isobutyl alcohol	43	4.992	4.992	0.000	34	109811	500.0	432.6	a
55 Benzene	78	5.033	5.033	0.000	95	390319	20.0	20.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	107229	50.0	50.0	
57 Isopropyl acetate	43	5.091	5.083	0.008	96	247278	20.0	20.9	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	92	320922	20.0	20.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	96	111379	20.0	18.7	
60 n-Heptane	57	5.181	5.173	0.008	90	70507	20.0	19.5	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	402880	50.0	50.0	
62 n-Butanol	56	5.658	5.641	0.017	36	22731	500.0	300.3	
63 Trichloroethene	95	5.674	5.666	0.008	99	89765	20.0	18.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	213610	20.0	19.8	
64 Methylcyclohexane	83	5.798	5.789	0.009	87	164713	20.0	18.8	
66 1,2-Dichloropropane	63	5.962	5.954	0.008	95	99307	20.0	19.3	
68 Methyl methacrylate	100	6.028	6.028	0.000	88	42865	40.0	41.3	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	12144	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	96673	20.0	20.2	
71 Dibromomethane	93	6.085	6.085	0.000	80	54053	20.0	18.5	
69 1,4-Dioxane	88	6.077	6.093	-0.016	61	12568	400.0	542.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	116089	20.0	18.6	
73 2-Nitropropane	41	6.570	6.562	0.008	80	34443	40.0	38.6	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	45288	20.0	20.1	
75 Epichlorohydrin	57	6.685	6.677	0.008	99	143506	400.0	412.5	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	89	139641	20.0	19.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.890	0.009	95	386511	100.0	108.8	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	386958	50.0	50.8	
79 Toluene	91	7.055	7.055	0.000	94	389297	20.0	20.0	
80 trans-1,3-Dichloropropene	75	7.408	7.400	0.008	96	111623	20.0	19.1	
81 Ethyl methacrylate	69	7.433	7.424	0.009	87	103487	20.0	21.6	
82 1,1,2-Trichloroethane	83	7.622	7.613	0.009	95	65586	20.0	20.2	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	93656	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	126538	20.0	20.6	
85 2-Hexanone	43	7.893	7.893	0.000	94	203385	100.0	97.2	
86 n-Butyl acetate	43	8.008	8.008	0.000	99	117517	20.0	21.4	
87 Chlorodibromomethane	129	8.065	8.057	0.008	98	82702	20.0	19.7	
88 Ethylene Dibromide	107	8.222	8.213	0.009	95	73439	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	276311	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	96	241115	20.0	19.6	
91 Ethylbenzene	106	8.895	8.895	0.000	98	135443	20.0	19.1	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.912	0.008	96	90092	20.0	19.4	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	165298	20.0	19.6	
94 n-Butyl acrylate	73	9.495	9.487	0.008	98	61718	20.0	19.4	
95 o-Xylene	106	9.503	9.503	0.000	94	170723	20.0	19.5	
96 Styrene	104	9.536	9.536	0.000	97	271989	20.0	20.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	140580	20.0	21.3	
98 Bromoform	173	9.742	9.742	0.000	97	53938	20.0	20.0	
99 Isopropylbenzene	105	9.849	9.848	0.001	96	441961	20.0	21.1	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	109652	50.0	49.2	
101 Bromobenzene	156	10.144	10.144	0.000	98	109946	20.0	21.0	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	96	107854	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	515870	20.0	21.5	
104 1,2,3-Trichloropropane	110	10.227	10.226	0.001	96	29663	20.0	21.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	92	24122	20.0	21.7	
106 2-Chlorotoluene	91	10.292	10.292	0.000	90	359521	20.0	21.2	
107 4-Ethyltoluene	105	10.300	10.300	0.000	89	440455	20.0	22.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	376051	20.0	21.5	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	322845	20.0	21.5	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	125435	20.0	21.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	294008	20.0	20.9	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	390871	20.0	22.0	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	472052	20.0	21.7	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	405394	20.0	22.1	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	214188	20.0	20.8	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	94	151795	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	224925	20.0	21.2	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	411797	20.0	21.8	
118 Benzyl chloride	91	11.024	11.024	0.000	99	220670	20.0	23.4	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	94	421407	20.0	22.2	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	250847	20.0	22.2	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	225725	20.0	21.6	
122 1,2-Dichlorobenzene	146	11.180	11.180	0.000	96	222306	20.0	21.6	
123 1,2,4,5-Tetramethylbenzene	119	11.599	11.599	0.000	98	382206	20.0	21.7	
124 1,2-Dibromo-3-Chloropropan	75	11.681	11.673	0.008	95	20263	20.0	22.2	
125 1,3,5-Trichlorobenzene	180	11.763	11.755	0.008	98	174655	20.0	21.7	
126 1,2,4-Trichlorobenzene	180	12.166	12.166	0.000	94	155861	20.0	21.8	
127 Hexachlorobutadiene	225	12.223	12.223	0.000	95	65732	20.0	19.4	
128 Naphthalene	128	12.338	12.330	0.008	99	365681	20.0	24.2	
129 1,2,3-Trichlorobenzene	180	12.503	12.503	0.000	95	143898	20.0	21.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.1	
S 131 Xylenes, Total	100				0		40.0	39.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 06:34:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67495.D

Injection Date: 09-Jul-2018 18:55:30 Instrument ID: CVOAMS6 Operator ID:

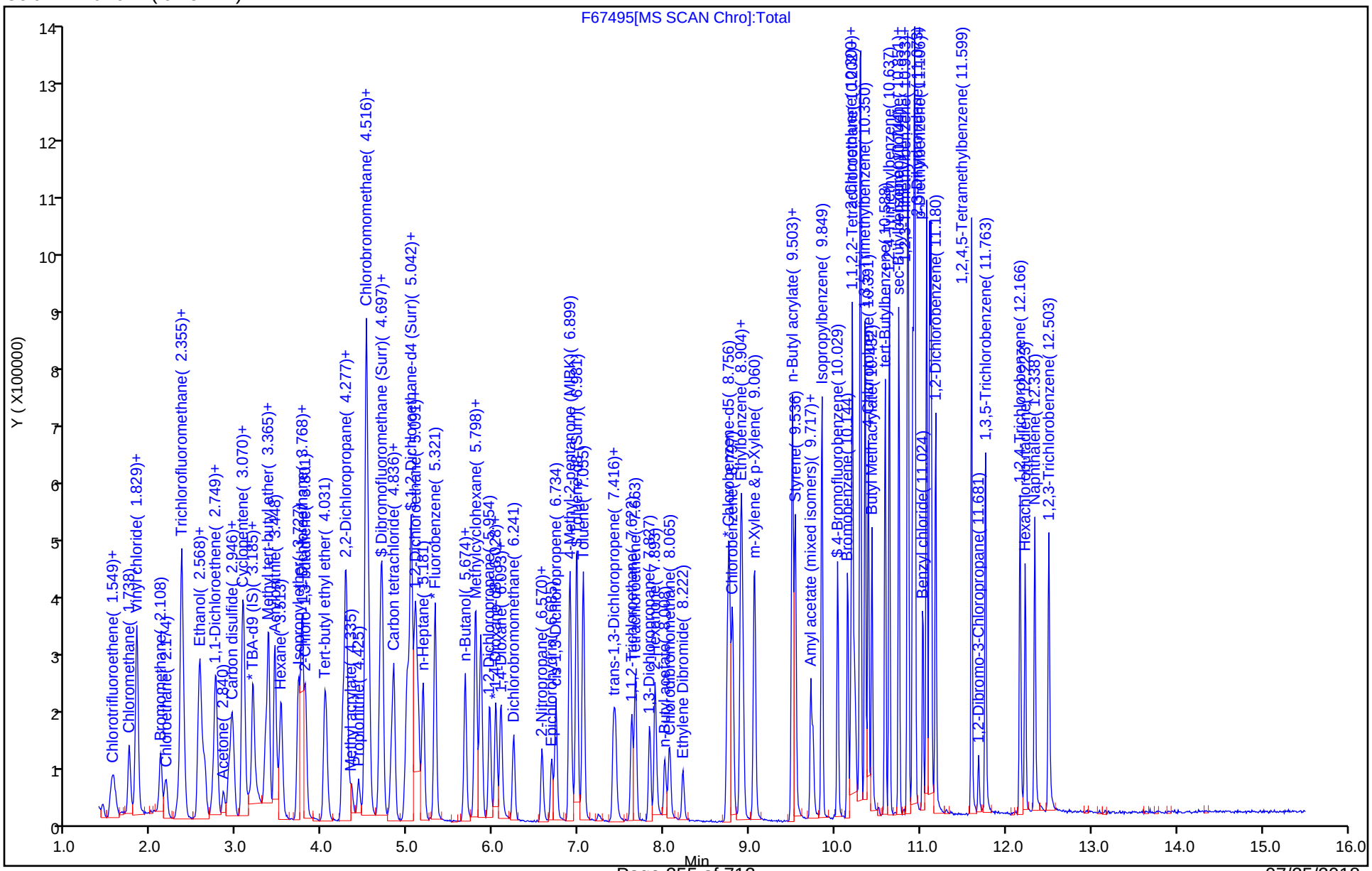
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534889/4

Matrix: Water | Lab File ID: F67527.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.5		1.0	0.43
75-34-3	1,1-Dichloroethane	19.9		1.0	0.26
75-35-4	1,1-Dichloroethene	20.0		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.6		1.0	0.43
107-06-2	1,2-Dichloroethane	18.0		1.0	0.43
78-87-5	1,2-Dichloropropane	19.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.3		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.1		1.0	0.76
78-93-3	2-Butanone (MEK)	98.4		5.0	1.9
591-78-6	2-Hexanone	92.0		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.7
67-64-1	Acetone	98.1		5.0	5.0
71-43-2	Benzene	20.7		1.0	0.43
75-25-2	Bromoform	19.5		1.0	0.54
74-83-9	Bromomethane	20.1		1.0	1.0
75-15-0	Carbon disulfide	19.8		1.0	0.16
56-23-5	Carbon tetrachloride	20.3		1.0	0.21
108-90-7	Chlorobenzene	19.8		1.0	0.38
124-48-1	Dibromochloromethane	19.0		1.0	0.28
75-00-3	Chloroethane	18.9		1.0	0.32
67-66-3	Chloroform	20.2		1.0	0.33
74-87-3	Chloromethane	19.9		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.22
110-82-7	Cyclohexane	21.2		1.0	0.32
75-27-4	Bromodichloromethane	18.9		1.0	0.34
75-71-8	Dichlorodifluoromethane	21.7		1.0	0.12
100-41-4	Ethylbenzene	19.3		1.0	0.30
106-93-4	1,2-Dibromoethane	19.7		1.0	0.50
98-82-8	Isopropylbenzene	21.2		1.0	0.34
79-20-9	Methyl acetate	40.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534889/4

Matrix: Water | Lab File ID: F67527.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.2		1.0	0.47
108-87-2	Methylcyclohexane	21.7		1.0	0.26
75-09-2	Methylene Chloride	19.6		1.0	0.32
127-18-4	Tetrachloroethene	20.4		1.0	0.25
108-88-3	Toluene	20.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.1		1.0	0.49
79-01-6	Trichloroethene	19.4		1.0	0.31
75-69-4	Trichlorofluoromethane	21.3		1.0	0.14
75-01-4	Vinyl chloride	20.7		1.0	0.17
1330-20-7	Xylenes, Total	40.0		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.4		1.0	0.46
100-42-5	Styrene	20.5		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67527.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Jul-2018 07:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075172-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:38:01 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: moroneyc Date: 10-Jul-2018 07:47:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.533	0.008	87	62579	20.0	23.0	
2 Dichlorodifluoromethane	85	1.566	1.582	-0.016	99	142613	20.0	21.7	
3 Chloromethane	50	1.747	1.747	0.000	98	160040	20.0	19.9	
5 Butadiene	54	1.837	1.837	0.000	95	151755	20.0	20.8	
4 Vinyl chloride	62	1.829	1.837	-0.008	97	166012	20.0	20.7	
6 Bromomethane	94	2.108	2.116	-0.008	99	111450	20.0	20.1	
7 Chloroethane	64	2.174	2.174	0.000	99	90381	20.0	18.9	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	207069	20.0	20.4	
10 Pentane	72	2.355	2.363	-0.008	98	35192	40.0	49.9	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	56	158306	20.0	21.3	
11 Ethanol	46	2.560	2.552	0.008	71	4561	800.0	513.9	
12 Ethyl ether	59	2.552	2.552	0.000	93	65719	20.0	19.8	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	91	79605	20.0	20.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.626	-0.008	92	82670	20.0	20.9	
15 Acrolein	56	2.741	2.733	0.008	31	7112	40.0	32.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	97	96783	20.0	21.0	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	97	85389	20.0	20.0	
18 Acetone	43	2.848	2.848	0.000	88	82577	100.0	98.1	
19 Iodomethane	142	2.913	2.914	-0.001	96	153891	20.0	19.9	
20 Isopropyl alcohol	45	2.946	2.930	0.016	26	27088	200.0	207.5	
21 Carbon disulfide	76	2.946	2.946	0.000	99	339113	20.0	19.8	
22 3-Chloro-1-propene	41	3.061	3.070	-0.009	95	161398	20.0	19.7	
24 Methyl acetate	43	3.078	3.078	0.000	55	99453	40.0	40.1	
23 Cyclopentene	67	3.086	3.086	0.000	93	238134	20.0	21.9	
25 Acetonitrile	41	3.152	3.152	0.000	96	92271	200.0	239.9	
27 Methylene Chloride	84	3.185	3.193	-0.008	90	103294	20.0	19.6	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	111600	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.283	3.259	0.024	94	44776	200.0	190.8	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	242923	20.0	19.2	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	94066	20.0	19.9	
31 Acrylonitrile	53	3.448	3.448	0.000	96	294793	200.0	208.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.521	3.522	-0.001	91	82320	20.0	21.4	
33 Isopropyl ether	45	3.727	3.727	0.000	97	288134	20.0	19.9	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	167521	20.0	19.9	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	31312	40.0	38.5	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	83897	20.0	20.1	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	263115	20.0	19.4	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	147661	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.253	0.008	86	35690	20.0	20.1	
40 cis-1,2-Dichloroethene	96	4.277	4.278	-0.001	97	109138	20.0	20.5	
42 Ethyl acetate	70	4.294	4.286	0.008	95	14084	40.0	36.1	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	96	38494	100.0	98.4	
43 Methyl acrylate	55	4.351	4.343	0.008	98	55308	20.0	20.0	a
44 Propionitrile	54	4.425	4.425	0.000	98	98834	200.0	238.0	
45 Chlorobromomethane	128	4.499	4.499	0.000	89	48578	20.0	19.8	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	52	15688	40.0	35.0	
47 Methacrylonitrile	67	4.516	4.524	-0.008	90	298684	200.0	194.3	
48 Chloroform	83	4.549	4.549	0.000	99	153181	20.0	20.2	
49 Cyclohexane	84	4.688	4.680	0.008	91	150221	20.0	21.2	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	98	135760	20.0	20.1	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	94135	50.0	51.1	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	111577	20.0	20.3	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	97	120238	20.0	20.1	
54 Isobutyl alcohol	43	4.992	4.992	0.000	87	98697	500.0	522.7	
55 Benzene	78	5.033	5.033	0.000	95	373078	20.0	20.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	90738	50.0	46.1	
57 Isopropyl acetate	43	5.091	5.091	0.000	79	209052	20.0	19.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	98	279192	20.0	19.3	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	98474	20.0	18.0	
60 n-Heptane	57	5.181	5.181	0.000	91	70697	20.0	21.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	369968	50.0	50.0	
62 n-Butanol	56	5.658	5.650	0.008	36	18312	500.0	325.1	
63 Trichloroethene	95	5.674	5.674	0.000	98	88391	20.0	19.4	
65 Ethyl acrylate	55	5.798	5.789	0.009	93	198192	20.0	20.0	
64 Methylcyclohexane	83	5.798	5.798	0.000	91	174786	20.0	21.7	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	92584	20.0	19.6	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	9519	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.036	-0.008	89	34801	40.0	36.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	96	83495	20.0	19.0	
71 Dibromomethane	93	6.093	6.093	0.000	94	50535	20.0	18.8	
69 1,4-Dioxane	88	6.085	6.093	-0.008	25	9528	400.0	524.4	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	108670	20.0	18.9	
73 2-Nitropropane	41	6.570	6.570	0.000	81	26039	40.0	31.8	
74 2-Chloroethyl vinyl ether	63	6.570	6.578	-0.008	76	36304	20.0	17.6	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	115058	400.0	389.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	126757	20.0	19.4	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	323949	100.0	107.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	354841	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	93	367058	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	104108	20.0	19.1	
81 Ethyl methacrylate	69	7.433	7.433	0.000	87	89878	20.0	20.1	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	59185	20.0	19.5	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	90526	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.835	7.827	0.008	91	112919	20.0	19.7	
85 2-Hexanone	43	7.901	7.893	0.008	95	163369	100.0	92.0	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	96509	20.0	18.9	
87 Chlorodibromomethane	129	8.065	8.066	-0.001	97	74544	20.0	19.0	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	65159	20.0	19.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	84	257849	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	226907	20.0	19.8	
91 Ethylbenzene	106	8.904	8.895	0.009	98	127502	20.0	19.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	82941	20.0	19.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	157261	20.0	20.0	
94 n-Butyl acrylate	73	9.495	9.495	0.000	98	52782	20.0	17.9	
95 o-Xylene	106	9.503	9.503	0.000	94	163080	20.0	20.0	
96 Styrene	104	9.536	9.536	0.000	96	259206	20.0	20.5	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	121411	20.0	18.8	
98 Bromoform	173	9.742	9.742	0.000	97	49021	20.0	19.5	
99 Isopropylbenzene	105	9.848	9.849	-0.001	95	414743	20.0	21.2	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	102497	50.0	49.2	
101 Bromobenzene	156	10.153	10.153	-0.001	96	101805	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	97	97031	20.0	19.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	501036	20.0	21.2	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	92	26512	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	82	19282	20.0	17.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	90	339088	20.0	20.3	
107 4-Ethyltoluene	105	10.300	10.301	0.000	90	418343	20.0	21.4	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	359715	20.0	20.9	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	301276	20.0	20.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	107467	20.0	18.6	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	275209	20.0	19.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	365744	20.0	20.9	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	445964	20.0	20.9	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	98	380388	20.0	21.1	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	205477	20.0	20.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	92	149452	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	209972	20.0	20.1	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	383968	20.0	20.6	
118 Benzyl chloride	91	11.024	11.024	0.000	99	188308	20.0	20.3	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	385230	20.0	20.6	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	229031	20.0	20.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	212995	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	96	208454	20.0	20.6	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	97	353083	20.0	20.4	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	15885	20.0	17.7	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	98	158369	20.0	20.0	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	94	138852	20.0	19.7	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	97	66959	20.0	20.1	
128 Naphthalene	128	12.314	12.314	0.000	99	299209	20.0	20.1	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	128409	20.0	19.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.4	
S 131 Xylenes, Total	100				0		40.0	40.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 13:38:03 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67527.D

Injection Date: 10-Jul-2018 07:24:30 Instrument ID: CVOAMS6 Operator ID:

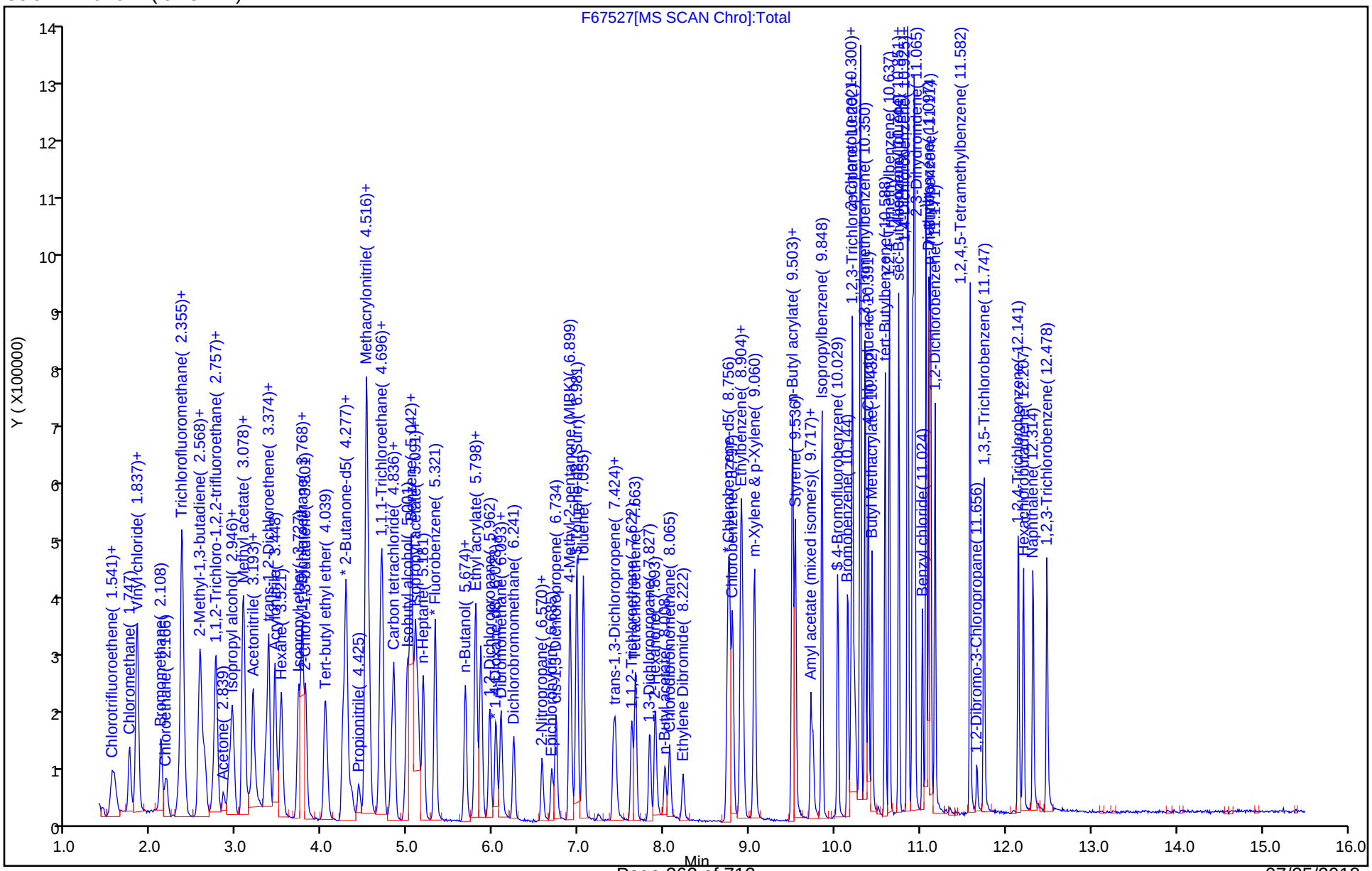
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534740/5

Matrix: Water | Lab File ID: F67496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	17.9		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.1		1.0	0.43
75-34-3	1,1-Dichloroethane	19.1		1.0	0.26
75-35-4	1,1-Dichloroethene	18.2		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.43
107-06-2	1,2-Dichloroethane	18.4		1.0	0.43
78-87-5	1,2-Dichloropropane	19.4		1.0	0.35
541-73-1	1,3-Dichlorobenzene	18.7		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.76
78-93-3	2-Butanone (MEK)	94.1		5.0	1.9
591-78-6	2-Hexanone	93.2		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	102		5.0	2.7
67-64-1	Acetone	111		5.0	5.0
71-43-2	Benzene	19.4		1.0	0.43
75-25-2	Bromoform	19.7		1.0	0.54
74-83-9	Bromomethane	18.8		1.0	1.0
75-15-0	Carbon disulfide	17.4		1.0	0.16
56-23-5	Carbon tetrachloride	17.9		1.0	0.21
108-90-7	Chlorobenzene	18.7		1.0	0.38
124-48-1	Dibromochloromethane	18.9		1.0	0.28
75-00-3	Chloroethane	18.6		1.0	0.32
67-66-3	Chloroform	19.6		1.0	0.33
74-87-3	Chloromethane	19.0		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.0		1.0	0.22
110-82-7	Cyclohexane	18.2		1.0	0.32
75-27-4	Bromodichloromethane	19.3		1.0	0.34
75-71-8	Dichlorodifluoromethane	18.5		1.0	0.12
100-41-4	Ethylbenzene	18.2		1.0	0.30
106-93-4	1,2-Dibromoethane	20.2		1.0	0.50
98-82-8	Isopropylbenzene	20.3		1.0	0.34
79-20-9	Methyl acetate	44.0		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534740/5

Matrix: Water | Lab File ID: F67496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.4		1.0	0.47
108-87-2	Methylcyclohexane	18.2		1.0	0.26
75-09-2	Methylene Chloride	19.2		1.0	0.32
127-18-4	Tetrachloroethene	18.8		1.0	0.25
108-88-3	Toluene	19.1		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	18.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.49
79-01-6	Trichloroethene	17.9		1.0	0.31
75-69-4	Trichlorofluoromethane	18.0		1.0	0.14
75-01-4	Vinyl chloride	18.8		1.0	0.17
1330-20-7	Xylenes, Total	38.2		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.5		1.0	0.46
100-42-5	Styrene	19.7		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67496.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2018 19:19:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075142-005
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:26:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.533	-0.008	89	51230	20.0	18.0	
2 Dichlorodifluoromethane	85	1.566	1.558	0.008	98	126708	20.0	18.5	
3 Chloromethane	50	1.738	1.738	0.000	98	159409	20.0	19.0	
5 Butadiene	54	1.829	1.829	0.000	96	141099	20.0	18.5	
4 Vinyl chloride	62	1.829	1.829	0.000	97	157289	20.0	18.8	
6 Bromomethane	94	2.108	2.108	0.000	99	108834	20.0	18.8	
7 Chloroethane	64	2.166	2.166	0.000	100	92635	20.0	18.6	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	99	200502	20.0	19.0	
10 Pentane	72	2.355	2.355	0.000	95	30515	40.0	33.3	
9 Trichlorofluoromethane	101	2.355	2.363	-0.008	60	139216	20.0	18.0	
11 Ethanol	46	2.544	2.535	0.009	79	5215	800.0	451.8	
12 Ethyl ether	59	2.544	2.544	0.000	94	73203	20.0	21.2	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	95	73780	20.0	18.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	88	76643	20.0	18.6	
15 Acrolein	56	2.724	2.724	0.000	32	9103	40.0	32.3	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	96	85783	20.0	17.9	
17 1,1-Dichloroethene	96	2.757	2.749	0.008	98	80911	20.0	18.2	
18 Acetone	43	2.839	2.839	0.000	89	112841	100.0	111.5	
19 Iodomethane	142	2.913	2.905	0.008	98	147448	20.0	18.3	
20 Isopropyl alcohol	45	2.938	2.930	0.008	27	36068	200.0	212.4	
21 Carbon disulfide	76	2.946	2.946	0.000	99	310357	20.0	17.4	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	156427	20.0	18.3	
24 Methyl acetate	43	3.069	3.070	-0.001	98	113698	40.0	44.0	
23 Cyclopentene	67	3.078	3.078	0.000	94	210988	20.0	18.6	
25 Acetonitrile	41	3.135	3.135	0.000	95	110234	200.0	220.3	a
27 Methylene Chloride	84	3.184	3.185	-0.001	92	105479	20.0	19.2	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	145161	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	96	69010	200.0	226.1	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	269628	20.0	20.4	
30 trans-1,2-Dichloroethene	96	3.373	3.365	0.008	94	91146	20.0	18.5	
31 Acrylonitrile	53	3.439	3.439	0.000	96	336870	200.0	228.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.513	0.000	92	72073	20.0	17.9	
33 Isopropyl ether	45	3.727	3.719	0.008	96	305813	20.0	20.3	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	98	167233	20.0	19.1	
35 Vinyl acetate	86	3.768	3.768	0.000	100	36095	40.0	42.7	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	78704	20.0	18.1	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	284698	20.0	20.1	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	177548	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	77	33498	20.0	18.1	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	96	105566	20.0	19.0	
42 Ethyl acetate	70	4.286	4.286	0.000	96	16762	40.0	35.7	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	44294	100.0	94.1	
43 Methyl acrylate	55	4.343	4.343	0.000	98	64231	20.0	22.1	
44 Propionitrile	54	4.425	4.417	0.008	99	112298	200.0	207.9	
45 Chlorobromomethane	128	4.499	4.491	0.008	87	50878	20.0	19.9	
46 Tetrahydrofuran	72	4.499	4.499	0.000	57	21208	40.0	39.6	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	343568	200.0	214.6	
48 Chloroform	83	4.548	4.549	-0.001	99	154840	20.0	19.6	
49 Cyclohexane	84	4.680	4.680	0.000	91	134329	20.0	18.2	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	97	126047	20.0	17.9	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	98573	50.0	51.3	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	96	102173	20.0	17.9	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	111255	20.0	17.8	
54 Isobutyl alcohol	43	4.992	4.992	0.000	32	110049	500.0	448.0	a
55 Benzene	78	5.033	5.033	0.000	97	366779	20.0	19.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	104600	50.0	51.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	76	241361	20.0	21.4	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	97	312406	20.0	20.8	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	104626	20.0	18.4	
60 n-Heptane	57	5.173	5.173	0.000	89	62966	20.0	18.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	385357	50.0	50.0	
62 n-Butanol	56	5.650	5.641	0.009	86	27011	500.0	368.3	
63 Trichloroethene	95	5.666	5.666	0.000	98	84857	20.0	17.9	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	202799	20.0	19.7	
64 Methylcyclohexane	83	5.789	5.789	0.000	86	152438	20.0	18.2	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	95	95360	20.0	19.4	
68 Methyl methacrylate	100	6.028	6.028	0.000	88	39815	40.0	40.1	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	13097	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	96	96075	20.0	21.0	
71 Dibromomethane	93	6.093	6.085	0.008	85	54942	20.0	19.6	
69 1,4-Dioxane	88	6.085	6.093	-0.008	28	13605	400.0	544.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	115282	20.0	19.3	
73 2-Nitropropane	41	6.570	6.562	0.008	80	31855	40.0	37.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	75	41308	20.0	19.2	
75 Epichlorohydrin	57	6.685	6.677	0.008	99	139143	400.0	391.3	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	90	133534	20.0	19.5	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	95	370019	100.0	101.9	
$ 78 Toluene-d8 (Surr)	98	6.972	6.973	-0.001	99	375616	50.0	50.4	
79 Toluene	91	7.055	7.055	0.000	93	365038	20.0	19.1	
80 trans-1,3-Dichloropropene	75	7.408	7.400	0.008	99	108757	20.0	19.0	
81 Ethyl methacrylate	69	7.433	7.424	0.009	90	100477	20.0	21.5	
82 1,1,2-Trichloroethane	83	7.622	7.613	0.009	96	63928	20.0	20.1	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	87632	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	125751	20.0	20.9	
85 2-Hexanone	43	7.893	7.893	0.000	95	199114	100.0	93.2	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	113535	20.0	21.2	
87 Chlorodibromomethane	129	8.065	8.057	0.008	98	77633	20.0	18.9	
88 Ethylene Dibromide	107	8.221	8.213	0.008	97	69934	20.0	20.2	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	270437	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	224791	20.0	18.7	
91 Ethylbenzene	106	8.895	8.895	0.000	98	126058	20.0	18.2	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.912	0.008	97	88631	20.0	19.5	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	159736	20.0	19.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	61141	20.0	19.7	
95 o-Xylene	106	9.503	9.503	0.000	94	161611	20.0	18.9	
96 Styrene	104	9.536	9.536	0.000	97	262302	20.0	19.7	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	139962	20.0	20.2	
98 Bromoform	173	9.742	9.742	0.000	97	52007	20.0	19.7	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	416411	20.0	20.3	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	111788	50.0	51.2	
101 Bromobenzene	156	10.144	10.144	0.000	98	104281	20.0	18.9	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	107326	20.0	20.6	
103 N-Propylbenzene	91	10.202	10.202	0.000	100	484649	20.0	19.1	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	95	28148	20.0	19.1	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	23107	20.0	19.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	332652	20.0	18.6	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	415149	20.0	19.9	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	356752	20.0	19.4	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	299468	20.0	19.0	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	118330	20.0	19.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	270652	20.0	18.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	369536	20.0	19.7	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	436178	20.0	19.1	
114 4-Isopropyltoluene	119	10.843	10.851	-0.008	98	370847	20.0	19.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	202389	20.0	18.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	93	159938	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	214543	20.0	19.2	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	395501	20.0	19.9	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	203250	20.0	20.4	
119 2,3-Dihydroindene	117	11.065	11.073	-0.009	95	401332	20.0	20.1	
120 p-Diethylbenzene	119	11.097	11.106	-0.009	94	230100	20.0	19.3	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	206224	20.0	18.7	
122 1,2-Dichlorobenzene	146	11.171	11.180	-0.009	96	210497	20.0	19.4	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.599	-0.017	98	365575	20.0	19.7	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.673	-0.009	95	19220	20.0	20.0	
125 1,3,5-Trichlorobenzene	180	11.747	11.755	-0.009	97	160281	20.0	18.9	
126 1,2,4-Trichlorobenzene	180	12.149	12.166	-0.017	94	147583	20.0	19.6	
127 Hexachlorobutadiene	225	12.207	12.223	-0.016	96	63355	20.0	17.8	
128 Naphthalene	128	12.322	12.330	-0.008	99	354677	20.0	22.3	
129 1,2,3-Trichlorobenzene	180	12.486	12.503	-0.017	96	142298	20.0	19.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	37.5	
S 131 Xylenes, Total	100				0		40.0	38.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

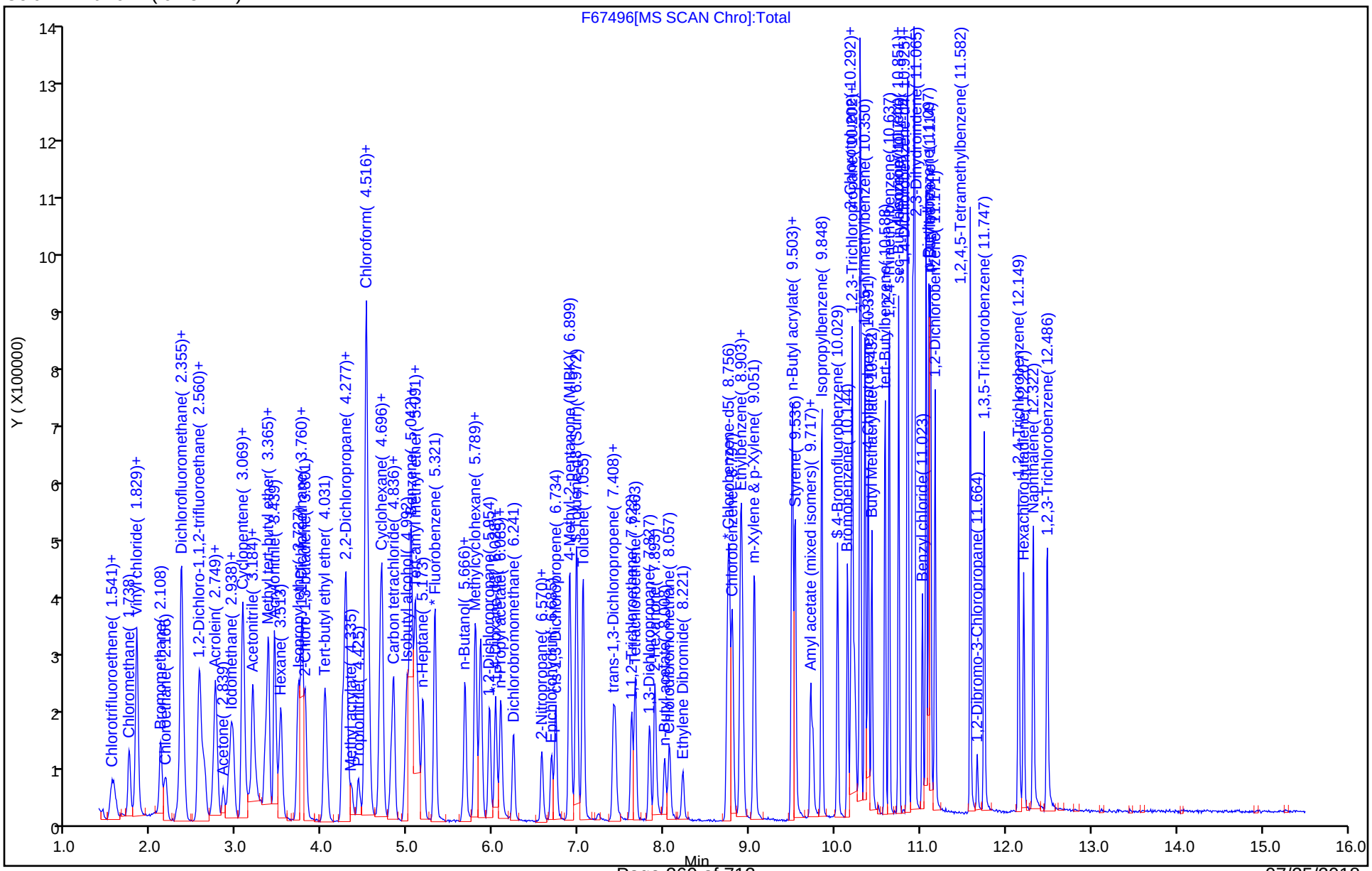
Report Date: 10-Jul-2018 06:35:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67496.D

Injection Date:	09-Jul-2018 19:19:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534889/5

Matrix: Water | Lab File ID: F67528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.4		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.5		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.1		1.0	0.43
75-34-3	1,1-Dichloroethane	18.8		1.0	0.26
75-35-4	1,1-Dichloroethene	19.3		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.3		1.0	0.43
107-06-2	1,2-Dichloroethane	17.1		1.0	0.43
78-87-5	1,2-Dichloropropane	19.5		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.9		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.76
78-93-3	2-Butanone (MEK)	93.9		5.0	1.9
591-78-6	2-Hexanone	93.5		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.7
67-64-1	Acetone	92.2		5.0	5.0
71-43-2	Benzene	20.1		1.0	0.43
75-25-2	Bromoform	18.7		1.0	0.54
74-83-9	Bromomethane	17.7		1.0	1.0
75-15-0	Carbon disulfide	18.7		1.0	0.16
56-23-5	Carbon tetrachloride	19.8		1.0	0.21
108-90-7	Chlorobenzene	19.2		1.0	0.38
124-48-1	Dibromochloromethane	18.3		1.0	0.28
75-00-3	Chloroethane	18.0		1.0	0.32
67-66-3	Chloroform	19.6		1.0	0.33
74-87-3	Chloromethane	17.5		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.4		1.0	0.22
110-82-7	Cyclohexane	20.5		1.0	0.32
75-27-4	Bromodichloromethane	18.4		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.5		1.0	0.12
100-41-4	Ethylbenzene	18.5		1.0	0.30
106-93-4	1,2-Dibromoethane	19.4		1.0	0.50
98-82-8	Isopropylbenzene	20.6		1.0	0.34
79-20-9	Methyl acetate	39.3		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534889/5

Matrix: Water | Lab File ID: F67528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	18.6		1.0	0.47
108-87-2	Methylcyclohexane	20.2		1.0	0.26
75-09-2	Methylene Chloride	19.0		1.0	0.32
127-18-4	Tetrachloroethene	19.8		1.0	0.25
108-88-3	Toluene	19.7		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.3		1.0	0.49
79-01-6	Trichloroethene	19.2		1.0	0.31
75-69-4	Trichlorofluoromethane	19.1		1.0	0.14
75-01-4	Vinyl chloride	18.2		1.0	0.17
1330-20-7	Xylenes, Total	38.2		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	18.7		1.0	0.46
100-42-5	Styrene	20.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 10-Jul-2018 07:48:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075172-005
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:50:37 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:50:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	88	60825	20.0	21.8	
2 Dichlorodifluoromethane	85	1.574	1.582	-0.008	99	131474	20.0	19.5	
3 Chloromethane	50	1.747	1.747	0.000	99	143975	20.0	17.5	
5 Butadiene	54	1.837	1.837	0.000	95	136886	20.0	18.3	
4 Vinyl chloride	62	1.837	1.837	0.000	97	149350	20.0	18.2	
6 Bromomethane	94	2.108	2.116	-0.008	99	100478	20.0	17.7	
7 Chloroethane	64	2.174	2.174	0.000	100	87808	20.0	18.0	
8 Dichlorofluoromethane	67	2.347	2.355	-0.008	99	199472	20.0	19.2	
10 Pentane	72	2.355	2.363	-0.008	97	34349	40.0	47.5	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	54	145271	20.0	19.1	
11 Ethanol	46	2.527	2.552	-0.025	81	7178	800.0	788.8	
12 Ethyl ether	59	2.544	2.552	-0.008	93	66988	20.0	19.7	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	79336	20.0	20.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.626	-0.008	93	80770	20.0	20.0	
15 Acrolein	56	2.725	2.733	-0.008	93	7178	40.0	32.3	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	99236	20.0	21.0	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	84577	20.0	19.3	
18 Acetone	43	2.840	2.848	-0.008	88	77101	100.0	92.2	
19 Iodomethane	142	2.914	2.914	0.000	98	150704	20.0	19.1	
20 Isopropyl alcohol	45	2.938	2.930	0.008	27	28225	200.0	210.9	
21 Carbon disulfide	76	2.946	2.946	0.000	99	327997	20.0	18.7	
22 3-Chloro-1-propene	41	3.061	3.070	-0.009	98	162066	20.0	19.3	
24 Methyl acetate	43	3.070	3.078	-0.008	99	99626	40.0	39.3	
23 Cyclopentene	67	3.086	3.086	0.000	95	227488	20.0	20.4	
25 Acetonitrile	41	3.144	3.152	-0.008	96	88655	200.0	224.8	Ma
27 Methylene Chloride	84	3.193	3.193	0.000	90	102393	20.0	19.0	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	114435	1000.0	1000.0	M
28 2-Methyl-2-propanol	59	3.267	3.259	0.008	93	43067	200.0	179.0	M
29 Methyl tert-butyl ether	73	3.341	3.349	-0.008	97	241141	20.0	18.6	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	91882	20.0	19.0	
31 Acrylonitrile	53	3.448	3.448	0.000	95	290409	200.0	200.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.522	-0.009	92	81228	20.0	20.6	
33 Isopropyl ether	45	3.719	3.727	-0.008	95	285218	20.0	19.2	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	161591	20.0	18.8	
35 Vinyl acetate	86	3.776	3.776	0.000	100	30675	40.0	36.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	90	81164	20.0	19.0	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	263252	20.0	18.9	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	146699	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	93	34116	20.0	18.8	
40 cis-1,2-Dichloroethene	96	4.278	4.278	0.000	98	105566	20.0	19.4	
42 Ethyl acetate	70	4.294	4.286	0.008	96	13364	40.0	34.4	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	36492	100.0	93.9	
43 Methyl acrylate	55	4.343	4.343	0.000	96	55050	20.0	19.3	
44 Propionitrile	54	4.425	4.425	0.000	97	95637	200.0	224.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	93	47249	20.0	18.8	
46 Tetrahydrofuran	72	4.508	4.508	0.000	59	16554	40.0	37.3	
47 Methacrylonitrile	67	4.516	4.524	-0.008	89	296610	200.0	188.6	
48 Chloroform	83	4.549	4.549	0.000	98	152167	20.0	19.6	
49 Cyclohexane	84	4.680	4.680	0.000	89	148710	20.0	20.5	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	98	134275	20.0	19.4	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	98	95062	50.0	50.4	
52 Carbon tetrachloride	117	4.812	4.812	0.000	89	111269	20.0	19.8	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	119649	20.0	19.5	
54 Isobutyl alcohol	43	4.984	4.992	-0.008	43	103326	500.0	533.6	
55 Benzene	78	5.034	5.033	0.001	95	372576	20.0	20.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	98921	50.0	49.1	
57 Isopropyl acetate	43	5.091	5.091	0.000	95	213508	20.0	19.2	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	90	281390	20.0	19.0	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	95703	20.0	17.1	
60 n-Heptane	57	5.173	5.181	-0.008	89	72337	20.0	21.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	378570	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	51	20859	500.0	360.9	
63 Trichloroethene	95	5.674	5.674	0.000	98	89368	20.0	19.2	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	201537	20.0	19.9	
64 Methylcyclohexane	83	5.789	5.798	-0.009	88	166320	20.0	20.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	94343	20.0	19.5	
* 67 1,4-Dioxane-d8	96	6.020	6.019	0.001	0	10575	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.036	0.000	87	34384	40.0	35.4	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	77485	20.0	17.3	
71 Dibromomethane	93	6.094	6.093	0.001	86	50767	20.0	18.4	
69 1,4-Dioxane	88	6.069	6.093	-0.024	28	10238	400.0	507.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	108292	20.0	18.4	
73 2-Nitropropane	41	6.570	6.570	0.000	80	26067	40.0	31.1	
74 2-Chloroethyl vinyl ether	63	6.570	6.578	-0.008	75	35866	20.0	17.0	
75 Epichlorohydrin	57	6.677	6.685	-0.008	99	115455	400.0	393.0	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	125682	20.0	18.7	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	322864	100.0	107.6	
$ 78 Toluene-d8 (Surr)	98	6.973	6.981	-0.008	99	364545	50.0	49.8	
79 Toluene	91	7.055	7.055	0.000	92	369959	20.0	19.7	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	102914	20.0	18.3	
81 Ethyl methacrylate	69	7.425	7.433	-0.008	87	90085	20.0	19.6	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	59609	20.0	19.1	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	90510	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	94	111319	20.0	18.9	
85 2-Hexanone	43	7.893	7.893	0.000	95	164994	100.0	93.5	
86 n-Butyl acetate	43	8.008	8.008	0.000	97	96117	20.0	18.3	
87 Chlorodibromomethane	129	8.066	8.066	0.000	97	74204	20.0	18.3	
88 Ethylene Dibromide	107	8.222	8.222	0.000	97	66178	20.0	19.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	265711	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	94	226396	20.0	19.2	
91 Ethylbenzene	106	8.904	8.895	0.009	98	126297	20.0	18.5	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	84266	20.0	18.8	
93 m-Xylene & p-Xylene	106	9.052	9.060	-0.008	0	157137	20.0	19.4	
94 n-Butyl acrylate	73	9.487	9.495	-0.008	97	52860	20.0	17.4	
95 o-Xylene	106	9.504	9.503	0.001	94	158469	20.0	18.9	
96 Styrene	104	9.536	9.536	0.000	95	261620	20.0	20.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	117050	20.0	17.8	
98 Bromoform	173	9.742	9.742	0.000	96	48612	20.0	18.7	
99 Isopropylbenzene	105	9.849	9.849	0.000	95	415381	20.0	20.6	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	93	109453	50.0	51.0	
101 Bromobenzene	156	10.144	10.153	-0.009	99	100081	20.0	19.0	
102 1,1,2,2-Tetrachloroethane	83	10.186	10.185	0.001	98	96487	20.0	19.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	486588	20.0	20.2	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	96	27016	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	84	19038	20.0	17.2	
106 2-Chlorotoluene	91	10.292	10.292	0.000	95	341170	20.0	20.1	
107 4-Ethyltoluene	105	10.301	10.301	0.001	99	416124	20.0	20.9	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	363047	20.0	20.7	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	302430	20.0	20.1	
110 Butyl Methacrylate	87	10.432	10.432	0.000	89	111983	20.0	19.0	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	277493	20.0	19.6	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	362163	20.0	20.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	445977	20.0	20.5	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	98	382713	20.0	20.8	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	205179	20.0	19.9	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	152234	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	210441	20.0	19.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	377810	20.0	19.9	
118 Benzyl chloride	91	11.024	11.024	0.000	99	189828	20.0	20.1	
119 2,3-Dihydroindene	117	11.073	11.065	0.008	94	384136	20.0	20.2	
120 p-Diethylbenzene	119	11.106	11.098	0.008	93	235834	20.0	20.8	
121 n-Butylbenzene	92	11.122	11.114	0.008	99	215404	20.0	20.5	
122 1,2-Dichlorobenzene	146	11.172	11.171	0.001	97	209958	20.0	20.3	
123 1,2,4,5-Tetramethylbenzene	119	11.591	11.582	0.009	97	350629	20.0	19.8	
124 1,2-Dibromo-3-Chloropropan	75	11.673	11.656	0.017	94	16087	20.0	17.6	
125 1,3,5-Trichlorobenzene	180	11.755	11.747	0.008	97	156711	20.0	19.5	
126 1,2,4-Trichlorobenzene	180	12.158	12.149	0.009	94	140618	20.0	19.6	
127 Hexachlorobutadiene	225	12.223	12.207	0.016	96	64391	20.0	19.0	
128 Naphthalene	128	12.330	12.314	0.016	99	316828	20.0	20.9	
129 1,2,3-Trichlorobenzene	180	12.494	12.478	0.016	96	134941	20.0	19.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	38.4	
S 131 Xylenes, Total	100				0		40.0	38.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 13:50:39 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D

Injection Date: 10-Jul-2018 07:48:30 Instrument ID: CVOAMS6 Operator ID:

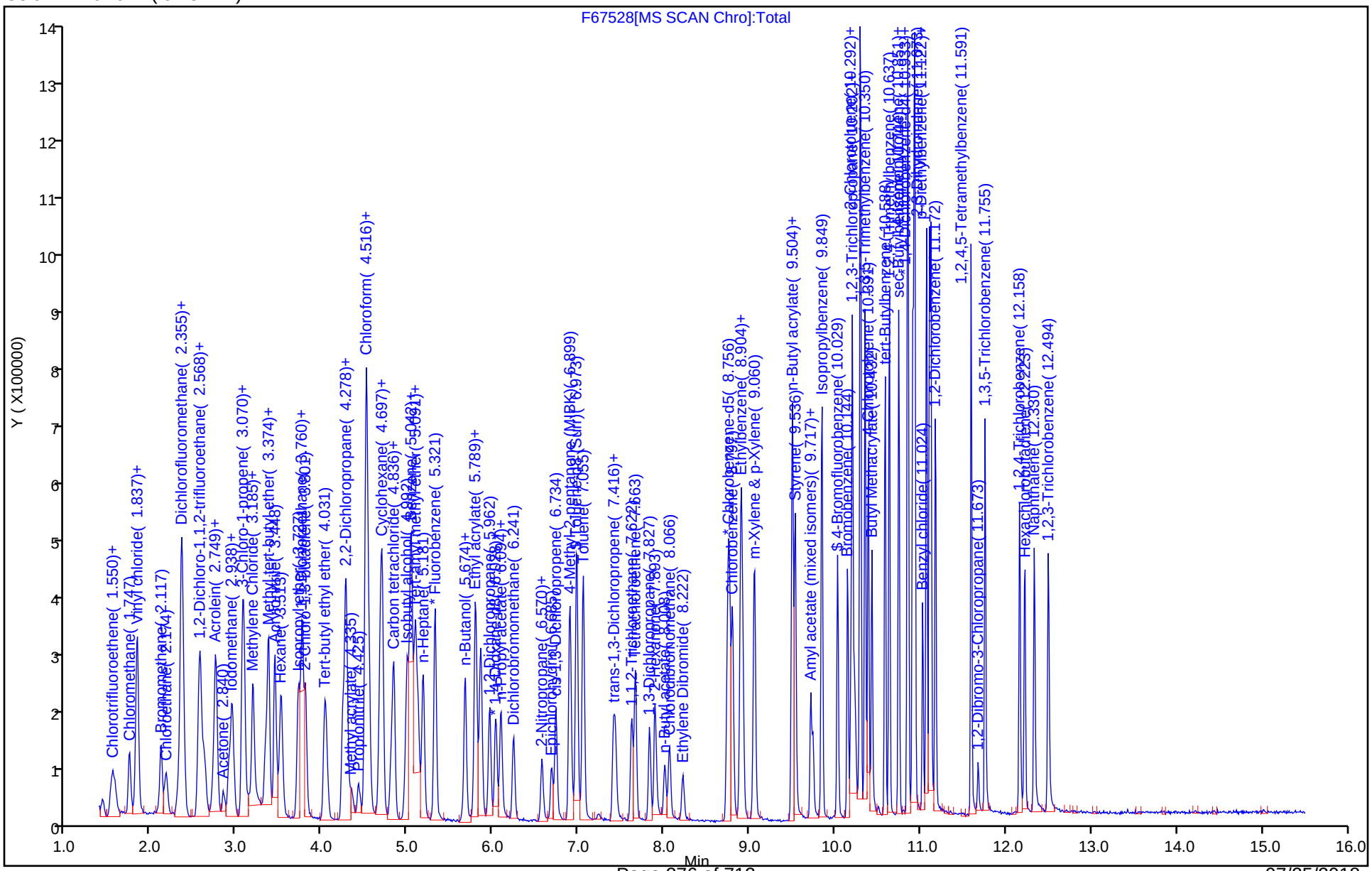
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

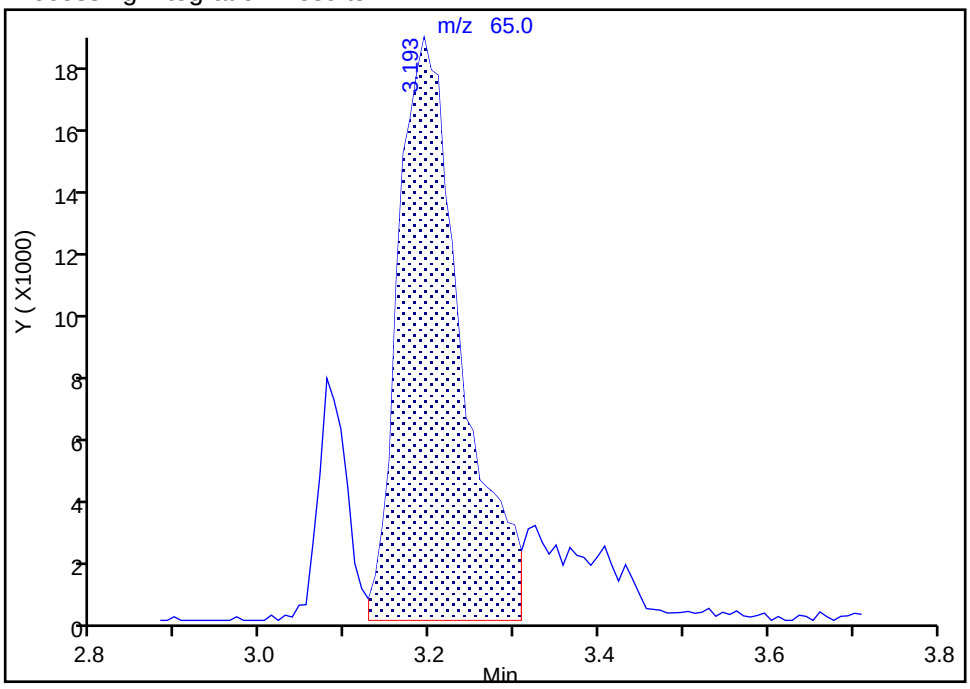
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D
Injection Date: 10-Jul-2018 07:48:30 Instrument ID: CVOAMS6
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 26 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

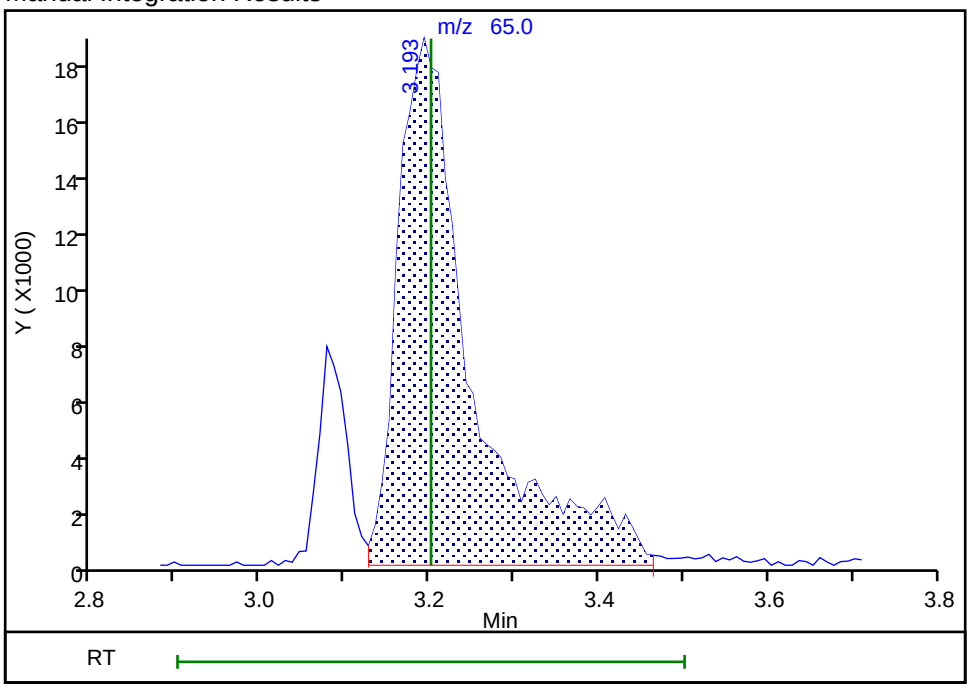
Processing Integration Results

RT: 3.19
Area: 97059
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.19
Area: 114435
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:39:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/08/2018 07:26

Analysis Batch Number: 534406 End Date: 07/08/2018 16:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534406/1		07/08/2018 07:26	1	F67406.D	Rtx-624 0.25(mm)
STD7 460-534406/3 IC		07/08/2018 08:14	1	F67408.D	Rtx-624 0.25(mm)
STD1 460-534406/4 IC		07/08/2018 08:37	1	F67409.D	Rtx-624 0.25(mm)
STD5 460-534406/5 IC		07/08/2018 09:01	1	F67410.D	Rtx-624 0.25(mm)
STD20 460-534406/6 ICIS		07/08/2018 09:24	1	F67411.D	Rtx-624 0.25(mm)
STD50 460-534406/7 IC		07/08/2018 09:47	1	F67412.D	Rtx-624 0.25(mm)
STD200 460-534406/8 IC		07/08/2018 10:11	1	F67413.D	Rtx-624 0.25(mm)
STD500 460-534406/9 IC		07/08/2018 10:34	1	F67414.D	Rtx-624 0.25(mm)
ICV 460-534406/13		07/08/2018 12:09	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:32	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:56	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 13:43	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 16:28	10		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/09/2018 17:40

Analysis Batch Number: 534740 End Date: 07/10/2018 03:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534740/1		07/09/2018 17:40	1	F67492.D	Rtx-624 0.25(mm)
CCVIS 460-534740/3		07/09/2018 18:27	1	F67494.D	Rtx-624 0.25(mm)
LCS 460-534740/4		07/09/2018 18:55	1	F67495.D	Rtx-624 0.25(mm)
LCSD 460-534740/5		07/09/2018 19:19	1	F67496.D	Rtx-624 0.25(mm)
MB 460-534740/9		07/09/2018 20:53	1	F67500.D	Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 21:17	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 21:41	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:05	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:28	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:51	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 23:15	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 23:38	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:01	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:25	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:48	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:12	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:35	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:59	1		Rtx-624 0.25(mm)
460-159314-1		07/10/2018 02:22	1	F67514.D	Rtx-624 0.25(mm)
460-159314-2		07/10/2018 02:45	1	F67515.D	Rtx-624 0.25(mm)
460-159314-4		07/10/2018 03:09	1	F67516.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/10/2018 06:12

Analysis Batch Number: 534889 End Date: 07/10/2018 15:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534889/1		07/10/2018 06:12	1	F67524.D	Rtx-624 0.25(mm)
CCVIS 460-534889/3		07/10/2018 06:57	1	F67526.D	Rtx-624 0.25(mm)
LCS 460-534889/4		07/10/2018 07:24	1	F67527.D	Rtx-624 0.25(mm)
LCSD 460-534889/5		07/10/2018 07:48	1	F67528.D	Rtx-624 0.25(mm)
MB 460-534889/8		07/10/2018 08:59	1	F67531.D	Rtx-624 0.25(mm)
460-159314-3		07/10/2018 09:23	1	F67532.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:12	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:36	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:12	25		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:36	10		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 15:00	25		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 534740 Batch Start Date: 07/09/18 17:40 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00267
BFB 460-534740/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-534740/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-534740/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-534740/5		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-534740/9		8260C		5 mL	5 mL				
460-159314-B-1	PDI-TB-06262018	8260C	T	5 mL	5 mL				
460-159314-B-2	PDI-FB-06262018	8260C	T	5 mL	5 mL				
460-159314-B-4	PDI-MW-161-1-I-06262018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00011					
BFB 460-534740/1		8260C							
CCVIS 460-534740/3		8260C		5 uL					
LCS 460-534740/4		8260C		5 uL					
LCSD 460-534740/5		8260C		5 uL					
MB 460-534740/9		8260C		5 uL					
460-159314-B-1	PDI-TB-06262018	8260C	T	5 uL					
460-159314-B-2	PDI-FB-06262018	8260C	T	5 uL					
460-159314-B-4	PDI-MW-161-1-I-06262018	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 534889 Batch Start Date: 07/10/18 06:12 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00268
BFB 460-534889/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-534889/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-534889/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-534889/5		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-534889/8		8260C		5 mL	5 mL				
460-159314-C-3	PDI-16-WG-75-062 62018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00011					
BFB 460-534889/1		8260C							
CCVIS 460-534889/3		8260C		5 uL					
LCS 460-534889/4		8260C		5 uL					
LCSD 460-534889/5		8260C		5 uL					
MB 460-534889/8		8260C		5 uL					
460-159314-C-3	PDI-16-WG-75-062 62018	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270_SIM_14DX

1,4-Dioxane (GC/MS SIM)

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231276.D

Lab ID: LCS 460-533324/6-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.800	0.245 J	31	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231277.D

Lab ID: LCSD 460-533324/7-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	0.800	0.240 J	30	2	30	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h231275.D Lab Sample ID: MB 460-533324/1-A

Matrix: Water Date Extracted: 07/03/2018 20:11

Instrument ID: CBNAMS9 Date Analyzed: 07/05/2018 10:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-533324/6-A	h231276.D	07/05/2018 10:23
	LCSD 460-533324/7-A	h231277.D	07/05/2018 10:45
PDI-MW-161-1-I-06262018	460-159314-4	h231281.D	07/05/2018 12:09

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h230597.D DFTPP Injection Date: 06/11/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 17:43

Analysis Batch No.: 526858

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	46.4	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.4	
275	10.0 - 30.0 % of mass 198	23.3	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	12.0	(91.1) 3
442	Greater than 40.0 % of mass 198	72.7	
443	17.0 - 23.0 % of mass 442	13.1	(18.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-526858/2	h230598.D	06/11/2018	18:10
	STD6 460-526858/3	h230599.D	06/11/2018	18:36
	STD5 460-526858/4	h230600.D	06/11/2018	18:58
	STD4 460-526858/5	h230601.D	06/11/2018	19:19
	STD2 460-526858/6	h230602.D	06/11/2018	19:40
	STD1 460-526858/7	h230603.D	06/11/2018	20:01

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h231250b.D DFTPP Injection Date: 07/05/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 01:12

Analysis Batch No.: 533482

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	40.9	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	40.2	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.5	
275	10.0 - 30.0 % of mass 198	29.0	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	19.0	(84.6) 3
442	Greater than 40.0 % of mass 198	120.1	
443	17.0 - 23.0 % of mass 442	22.4	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-533482/2	h231251.D	07/05/2018	01:29
	MB 460-533324/1-A	h231275.D	07/05/2018	10:02
	LCS 460-533324/6-A	h231276.D	07/05/2018	10:23
	LCSD 460-533324/7-A	h231277.D	07/05/2018	10:45
PDI-MW-161-1-I-06262018	460-159314-4	h231281.D	07/05/2018	12:09

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-533482/2 Date Analyzed: 07/05/2018 01:29

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h231251.D Heated Purge: (Y/N) N

Calibration ID: 69388

		DCBd4		NPT			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		6311	4.19	17047	5.40		
UPPER LIMIT		12622	4.69	34094	5.90		
LOWER LIMIT		3156	3.69	8524	4.90		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-533324/1-A		4252	4.19	11788	5.40		
LCS 460-533324/6-A		4208	4.19	12171	5.40		
LCSD 460-533324/7-A		4368	4.19	12158	5.40		
460-159314-4	PDI-MW-161-1-I-06262018	4033	4.19	11106	5.40		

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: h231281.D

Analysis Method: 8270C | Date Collected: 06/26/2018 11:10

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 245(mL) | Date Analyzed: 07/05/2018 12:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.41	0.18

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D
Lims ID: 460-159314-F-4-A
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 05-Jul-2018 12:09:30 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-032
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:52:39 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:52:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	100	4033	0.2000	
* 7 Naphthalene-d8	136	5.401	5.400	0.001	99	11106	0.2000	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	94	5841	0.2000	
* 17 Phenanthrene-d10	188	8.453	8.452	0.001	98	11507	0.2000	
* 25 Chrysene-d12	240	11.026	11.026	0.000	92	10234	0.2000	
* 30 Perylene-d12	264	12.829	12.819	0.010	100	10540	0.2000	
35 DFTPP								

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

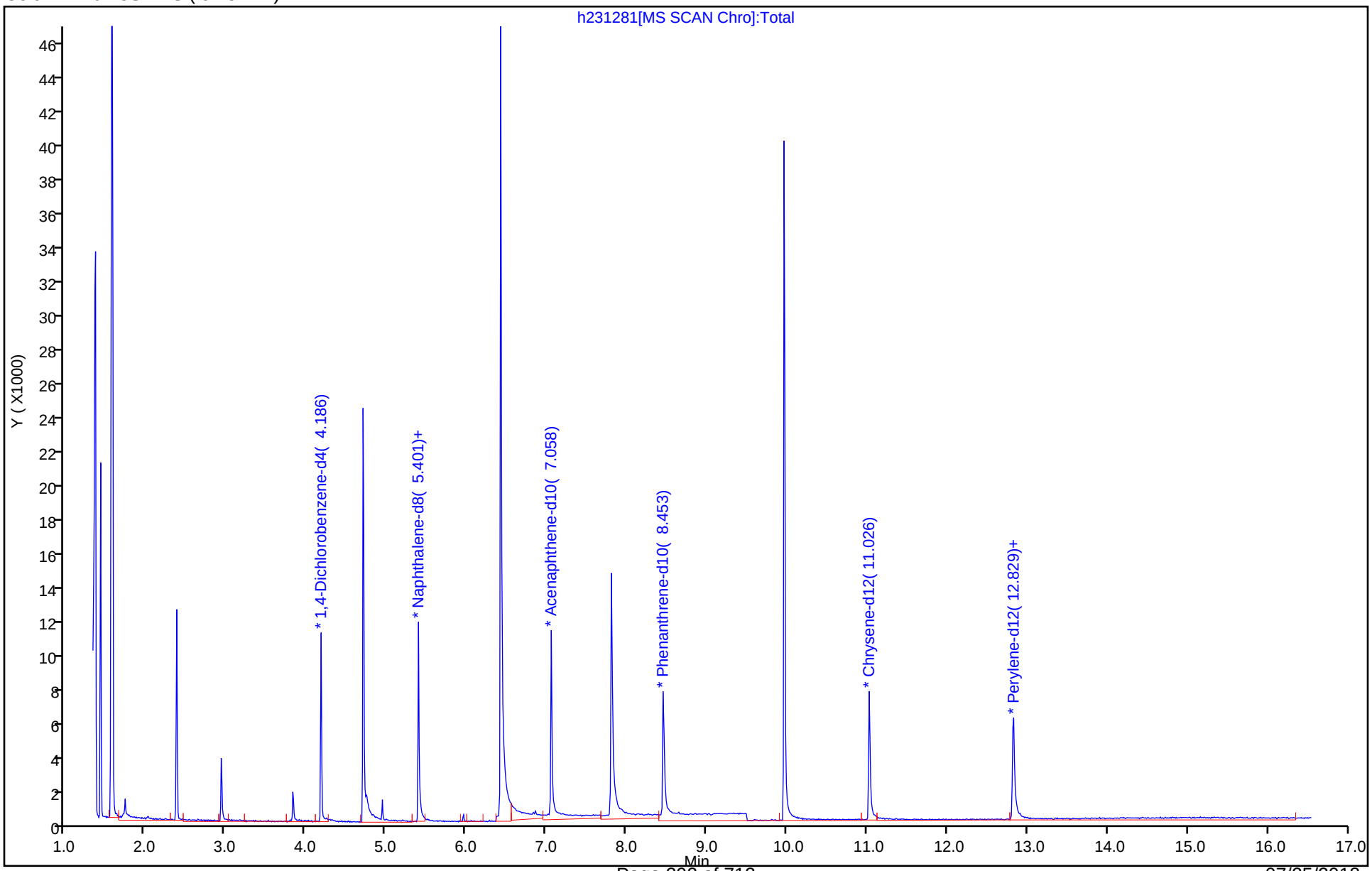
Report Date: 06-Jul-2018 13:52:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D

Injection Date:	05-Jul-2018 12:09:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	460-159314-F-4-A	Lab Sample ID:	460-159314-4	Worklist Smp#:	32
Client ID:	PDI-MW-161-1-I-06262018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



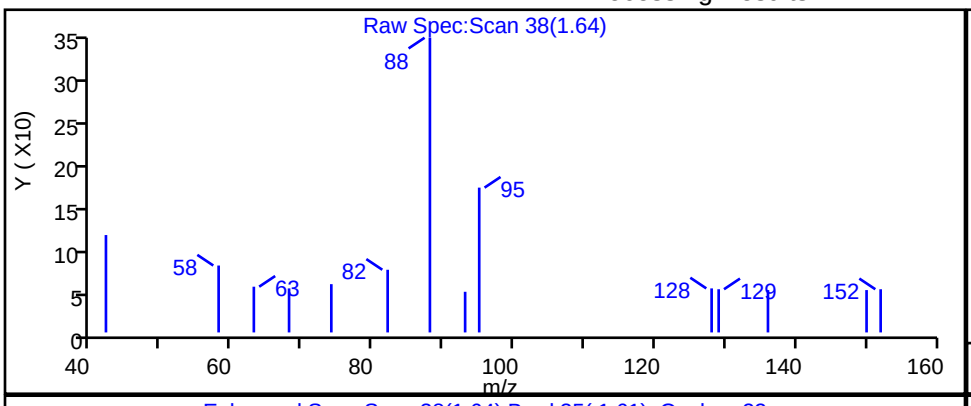
User Disabled Compound Report

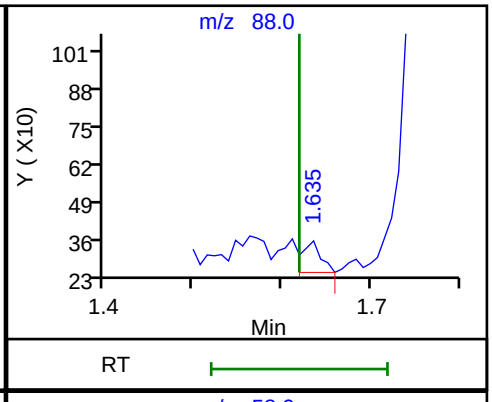
TestAmerica Edison

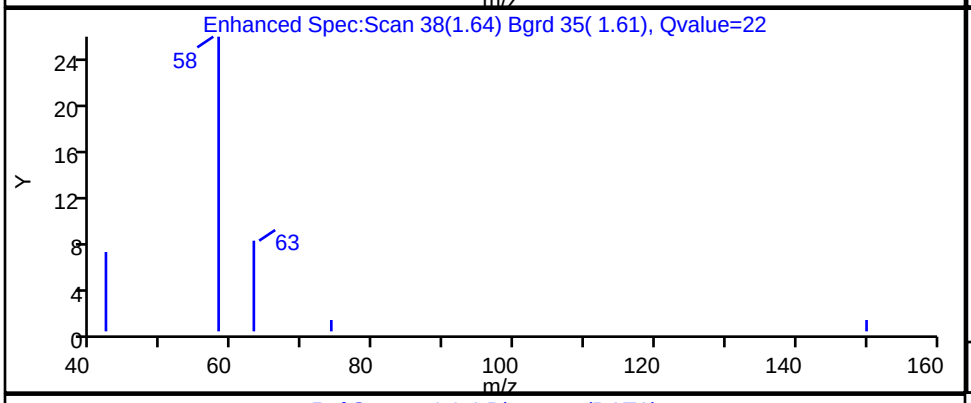
Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D				
Injection Date:	05-Jul-2018 12:09:30	Instrument ID:	CBNAMS9		
Lims ID:	460-159314-F-4-A	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

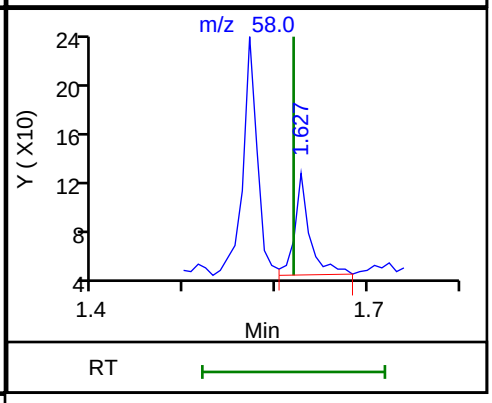
1 1,4-Dioxane, CAS: 123-91-1

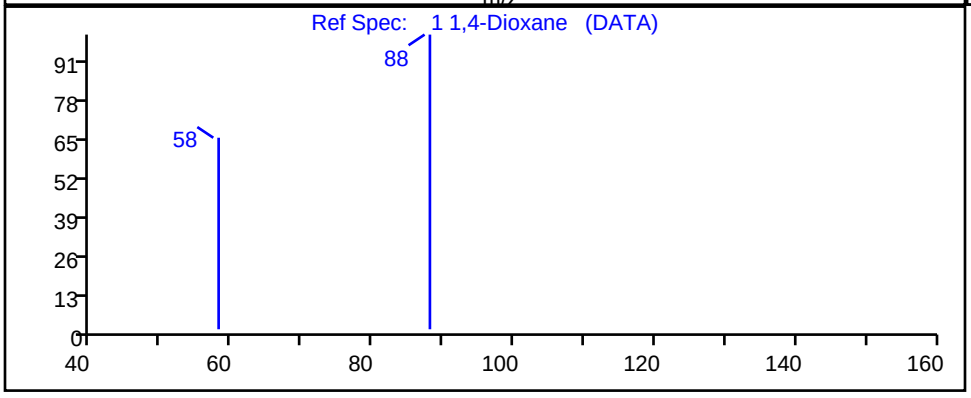
Processing Results











RT	Mass	Response	Amount
1.64	88.00	162	-0.003729
1.63	58.00	93	

Reviewer: manlangitf, 05-Jul-2018 12:31:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 526858

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2018 18:10 Calibration End Date: 06/11/2018 20:01 Calibration ID: 69388

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-526858/2	h230598.D
Level 2	STD6 460-526858/3	h230599.D
Level 3	STD5 460-526858/4	h230600.D
Level 4	STD4 460-526858/5	h230601.D
Level 5	STD2 460-526858/6	h230602.D
Level 6	STD1 460-526858/7	h230603.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4824 0.6668	0.4352	0.4401	0.4343	0.5145	Lin2	0.0096	0.4246							0.9990		0.9900
Nitrobenzene-d5	0.3693 0.3607	0.3413	0.3514	0.3496	0.3466	Ave		0.3531				2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 526858

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2018 18:10 Calibration End Date: 06/11/2018 20:01 Calibration ID: 69388

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-526858/2	h230598.D
Level 2	STD6 460-526858/3	h230599.D
Level 3	STD5 460-526858/4	h230600.D
Level 4	STD4 460-526858/5	h230601.D
Level 5	STD2 460-526858/6	h230602.D
Level 6	STD1 460-526858/7	h230603.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Lin2	4184 976	32974	14903	6849	2073	0.200 0.0400	2.00	0.800	0.400	0.100
Nitrobenzene-d5	NPT	Ave	17741 3702	365897	42172	31105	7609	0.400 0.100	10.0	1.00	0.800	0.200

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230598.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 11-Jun-2018 18:10:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:39 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: eisam Date: 11-Jun-2018 19:09:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	94	4184	0.2000	0.2046	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	92	2436	0.1000	0.1022	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	96	899	0.0200	0.0192	
* 5 1,4-Dichlorobenzene-d4	152	4.440	4.440	0.000	98	8673	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	98	17741	0.4000	0.4183	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	24019	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	2897	0.0200	0.0190	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	47870	0.4000	0.3940	
10 Acenaphthylene	152	7.173	7.173	0.000	100	2834	0.0200	0.0181	
* 11 Acenaphthene-d10	164	7.305	7.305	0.000	97	11349	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	90	1552	0.0200	0.0200	
13 Fluorene	166	7.818	7.818	0.000	86	1686	0.0200	0.0186	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	1652	0.2000	0.2251	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	87	9101	0.4000	0.3882	
15 Hexachlorobenzene	284	8.357	8.357	0.000	99	929	0.0200	0.0188	
16 Pentachlorophenol	266	8.541	8.541	0.000	96	2533	0.1000	0.1017	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17592	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	3039	0.0200	0.0206	
19 Anthracene	178	8.778	8.778	0.000	99	2500	0.0200	0.0182	
21 Fluoranthene	202	9.844	9.844	0.000	98	2663	0.0200	0.0187	
22 Pyrene	202	10.059	10.059	0.000	100	2865	0.0200	0.0199	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	99	20580	0.4000	0.4158	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	70	2006	0.0200	0.0192	
* 25 Chrysene-d12	240	11.326	11.326	0.000	98	12160	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	97	2246	0.0200	0.0188	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	98	1984	0.0200	0.0189	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	90	2125	0.0200	0.0180	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	97	1613	0.0200	0.0179	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	10928	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	90	1532	0.0200	0.0184	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	1643	0.0200	0.0207	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	84	2069	0.0200	0.0205	

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

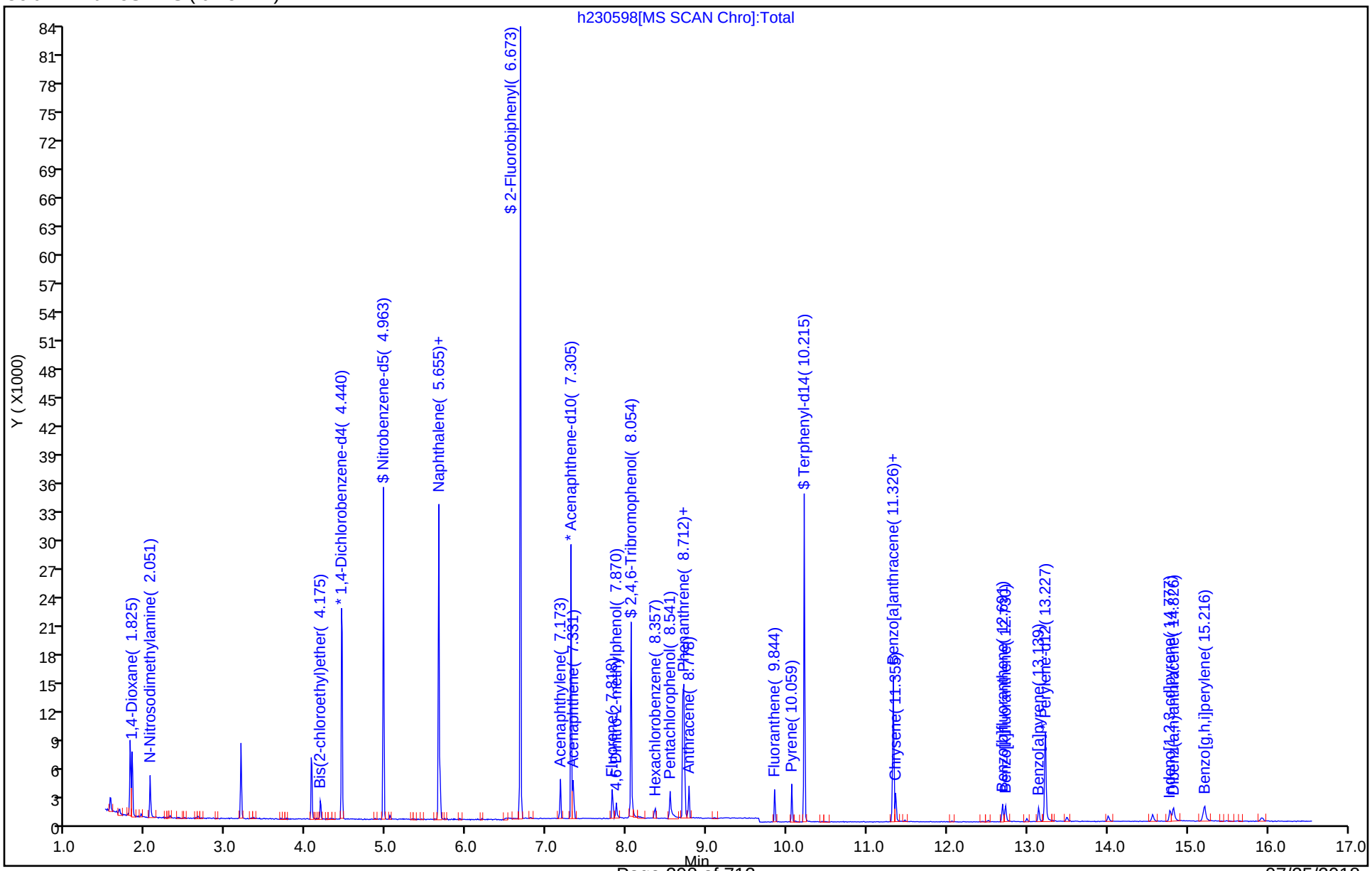
Report Date: 12-Jun-2018 09:44:39 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230598.D

Injection Date:	11-Jun-2018 18:10:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	icis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230599.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jun-2018 18:36:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-003
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:40 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:24:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	99	32974	2.00	2.03	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	88	18505	1.00	0.8887	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	88	40815	1.00	1.00	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	99	7577	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	97	365897	10.0	9.66	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	21444	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	56294	0.4000	0.4126	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	96	898404	10.0	8.16	
10 Acenaphthylene	152	7.173	7.173	0.000	100	57713	0.4000	0.4065	
* 11 Acenaphthene-d10	164	7.304	7.305	0.000	98	10286	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	89	29802	0.4000	0.4235	
13 Fluorene	166	7.817	7.818	-0.001	86	35101	0.4000	0.4275	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	28514	2.00	2.00	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	93	228008	10.0	10.7	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	47155	1.00	0.9637	
16 Pentachlorophenol	266	8.541	8.541	0.000	97	31578	1.00	1.00	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17386	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	60786	0.4000	0.4179	
19 Anthracene	178	8.778	8.778	0.000	99	59925	0.4000	0.4407	
21 Fluoranthene	202	9.844	9.844	0.000	100	59761	0.4000	0.4247	
22 Pyrene	202	10.059	10.059	0.000	100	63219	0.4000	0.3962	
$ 23 Terphenyl-d14	244	10.225	10.215	0.010	94	541170	10.0	9.86	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	3	49153	0.4000	0.4239	
* 25 Chrysene-d12	240	11.326	11.326	0.000	41	13484	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	98	57593	0.4000	0.4346	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	53859	0.4000	0.4357	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	99	62522	0.4000	0.4487	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	49083	0.4000	0.4625	
* 30 Perylene-d12	264	13.227	13.227	0.000	99	12897	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	90	47036	0.4000	0.4779	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	45500	0.4000	0.4864	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	53218	0.4000	0.4465	

Reagents:

SM_simSlviL6_00009 Amount Added: 1.00 Units: mL

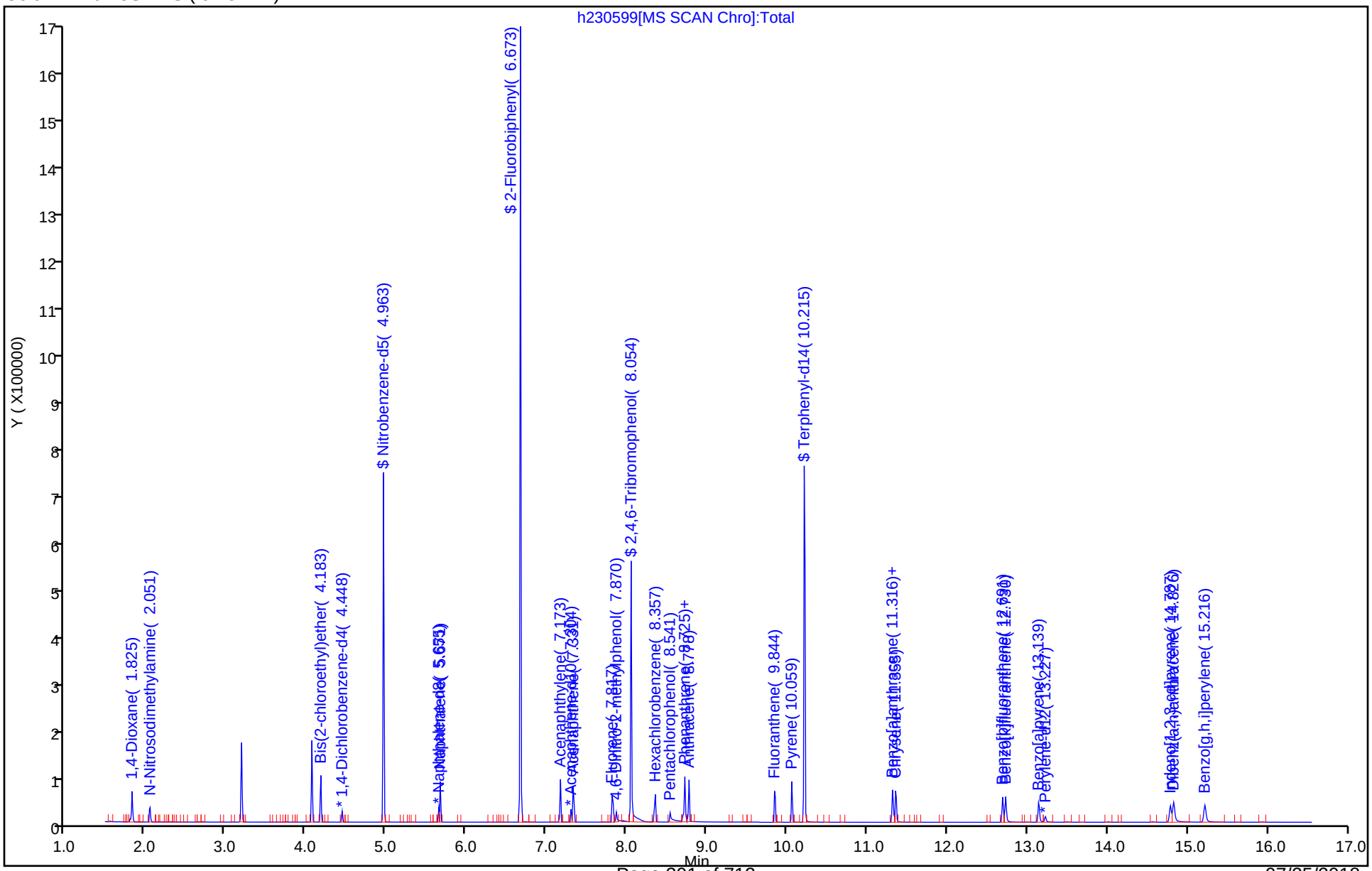
Report Date: 12-Jun-2018 09:44:41 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230599.D

Injection Date:	11-Jun-2018 18:36:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std6			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230600.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jun-2018 18:58:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-004
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:42 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:26:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	99	14903	0.8000	0.8065	
2 N-Nitrosodimethylamine	74	2.043	2.051	-0.008	90	9387	0.4000	0.4035	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	97	18034	0.4000	0.3936	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	97	8466	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	98	42172	1.00	0.99	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	24004	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	28290	0.2000	0.1852	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	117396	1.00	1.04	
10 Acenaphthylene	152	7.173	7.173	0.000	100	28288	0.2000	0.1947	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	100	10524	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	88	13598	0.2000	0.1889	
13 Fluorene	166	7.818	7.818	0.000	90	16928	0.2000	0.2015	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	7660	0.8000	0.7554	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	92	23891	1.00	1.10	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	21219	0.4000	0.4033	
16 Pentachlorophenol	266	8.541	8.541	0.000	96	12255	0.4000	0.3978	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	18694	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	29070	0.2000	0.1859	
19 Anthracene	178	8.778	8.778	0.000	99	27877	0.2000	0.1907	
21 Fluoranthene	202	9.844	9.844	0.000	100	28640	0.2000	0.1893	
22 Pyrene	202	10.059	10.059	0.000	100	30369	0.2000	0.1881	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	97	54341	1.00	0.9787	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	6	21994	0.2000	0.1875	
* 25 Chrysene-d12	240	11.326	11.326	0.000	85	13643	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	25643	0.2000	0.1913	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	25224	0.2000	0.1930	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	98	28897	0.2000	0.1961	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	21688	0.2000	0.1933	
* 30 Perylene-d12	264	13.227	13.227	0.000	99	13636	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	92	20160	0.2000	0.1937	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	99	20542	0.2000	0.2077	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	23709	0.2000	0.1881	

Reagents:

SM_simSlviL5_00009 Amount Added: 1.00 Units: mL

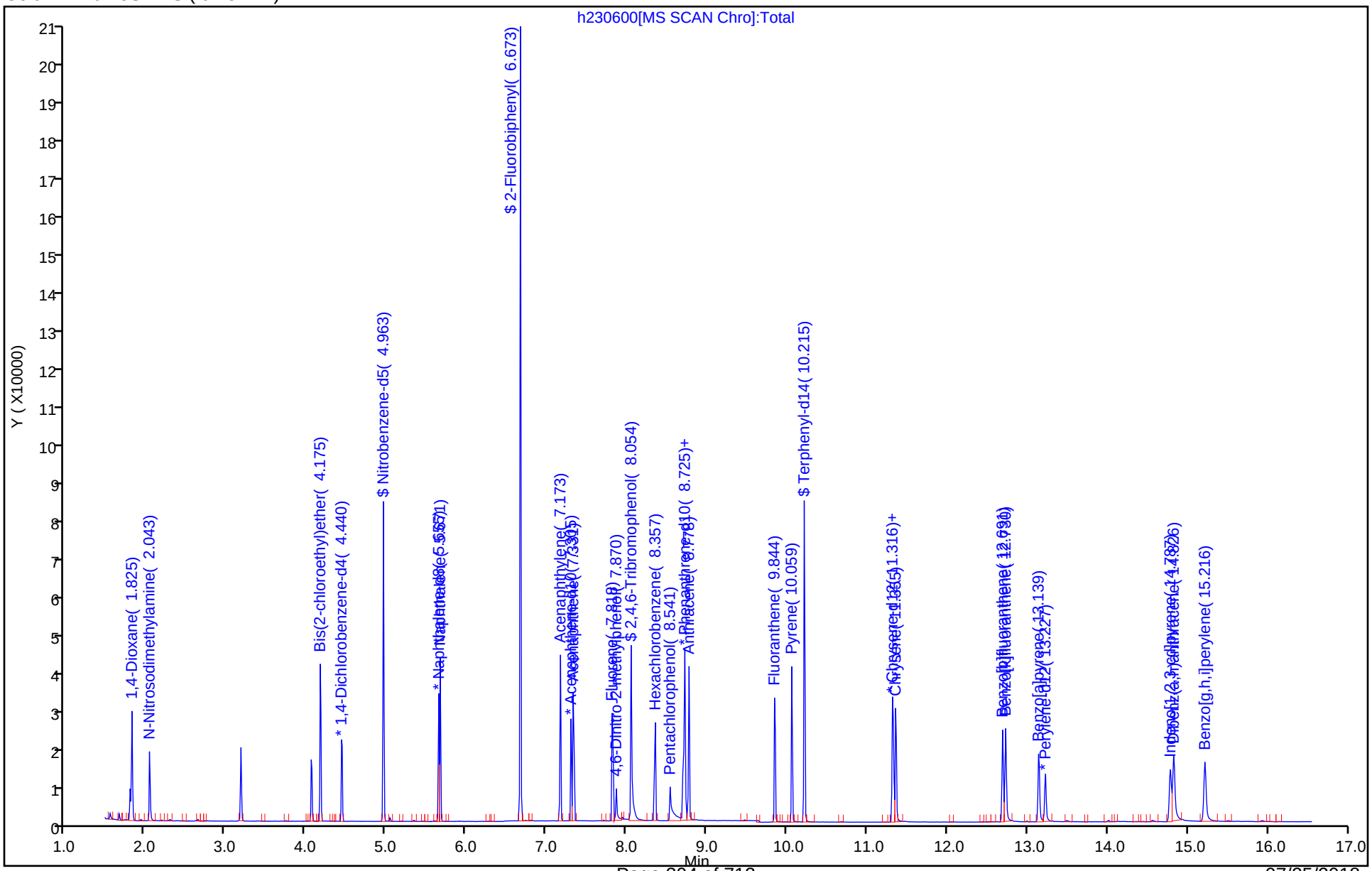
Report Date: 12-Jun-2018 09:44:42 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230600.D

Injection Date:	11-Jun-2018 18:58:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std5			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230601.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jun-2018 19:19:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-005
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:43 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:27:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	93	6849	0.4000	0.3865	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	87	4190	0.2000	0.1934	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	85	8550	0.2000	0.2004	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	99	7885	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	96	31105	0.8000	0.7920	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	22243	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	13309	0.1000	0.0940	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	88525	0.8000	0.8093	
10 Acenaphthylene	152	7.173	7.173	0.000	99	13529	0.1000	0.0959	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	97	10219	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	88	6791	0.1000	0.0971	
13 Fluorene	166	7.818	7.818	0.000	85	7985	0.1000	0.0979	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	86	4015	0.4000	0.4854	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	95	17493	0.8000	0.8287	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	9225	0.2000	0.1907	
16 Pentachlorophenol	266	8.554	8.541	0.013	91	5266	0.2000	0.1980	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17192	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	13364	0.1000	0.0929	
19 Anthracene	178	8.778	8.778	0.000	99	12920	0.1000	0.0961	
21 Fluoranthene	202	9.844	9.844	0.000	99	13381	0.1000	0.0962	
22 Pyrene	202	10.059	10.059	0.000	100	13937	0.1000	0.0893	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	98	41965	0.8000	0.7814	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	13	10339	0.1000	0.0911	
* 25 Chrysene-d12	240	11.326	11.326	0.000	95	13196	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	11954	0.1000	0.0922	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	11302	0.1000	0.0901	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	99	12928	0.1000	0.0915	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	10082	0.1000	0.0937	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	13081	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	89	9251	0.1000	0.0927	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	9614	0.1000	0.1013	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	10970	0.1000	0.0907	

Reagents:

SM_simSlviL4_00008 Amount Added: 1.00 Units: mL

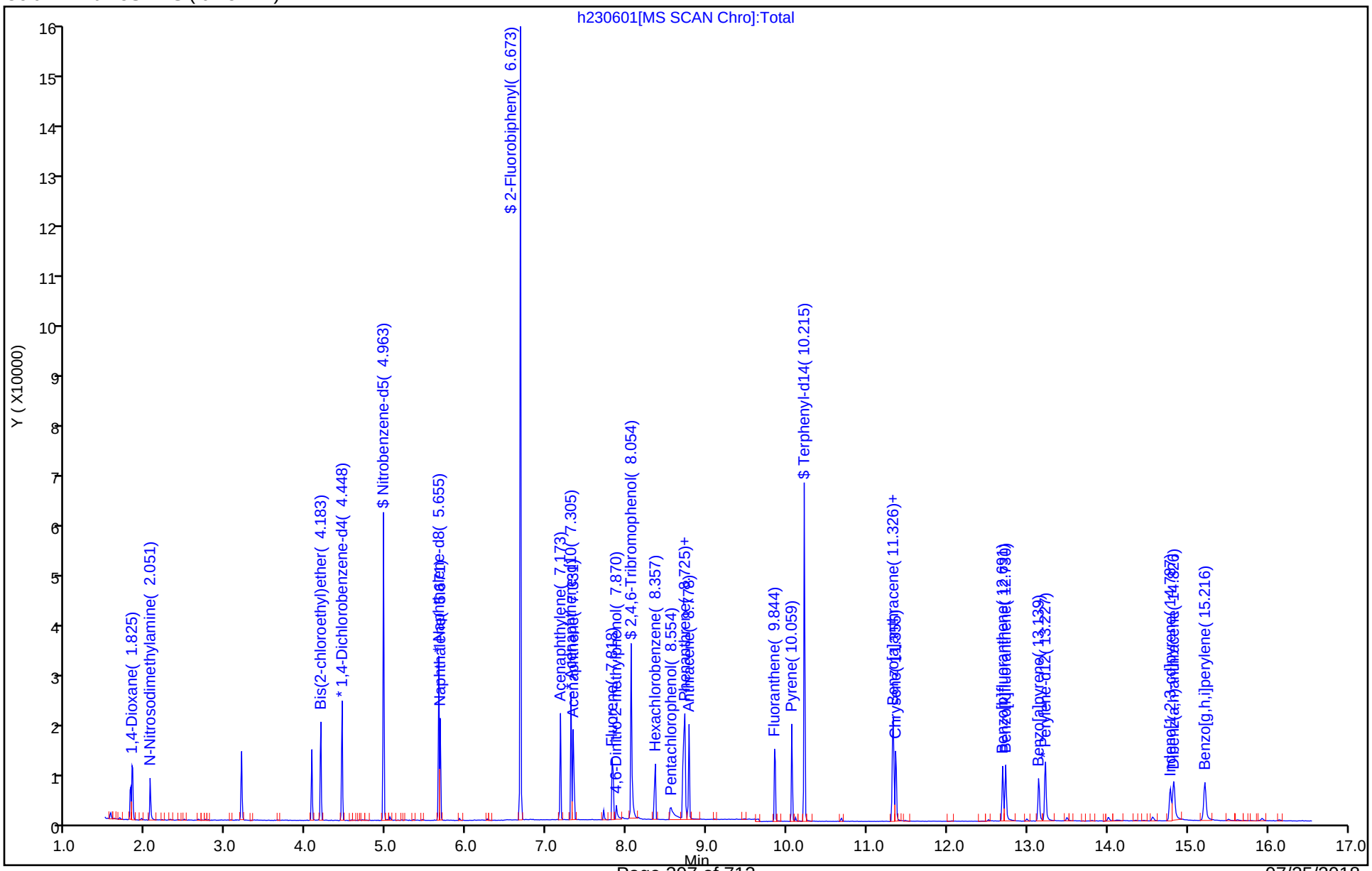
Report Date: 12-Jun-2018 09:44:43 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230601.D

Injection Date:	11-Jun-2018 19:19:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230602.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jun-2018 19:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-006
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:44 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:27:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	90	2073	0.1000	0.0985	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	91	1110	0.0500	0.0501	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	92	221	0.005000	0.005068	
* 5 1,4-Dichlorobenzene-d4	152	4.440	4.440	0.000	98	8058	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	97	7609	0.2000	0.1963	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	21954	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	94	1461	0.0100	0.0105	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	94	22099	0.2000	0.2051	
10 Acenaphthylene	152	7.173	7.173	0.000	99	1403	0.0100	0.0101	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	99	10067	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	86	694	0.0100	0.0101	
13 Fluorene	166	7.818	7.818	0.000	91	826	0.0100	0.0103	
14 4,6-Dinitro-2-methylphenol	198	7.897	7.870	0.027	79	287	0.1000	0.0511	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	92	3747	0.2000	0.1802	
15 Hexachlorobenzene	284	8.357	8.357	0.000	94	245	0.005000	0.005223	
16 Pentachlorophenol	266	8.594	8.541	0.053	93	973	0.0500	0.0499	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	16667	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	96	1498	0.0100	0.0107	
19 Anthracene	178	8.778	8.778	0.000	98	1283	0.0100	0.009842	
21 Fluoranthene	202	9.844	9.844	0.000	99	1398	0.0100	0.0104	
22 Pyrene	202	10.059	10.059	0.000	99	1506	0.0100	0.0108	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	99	9558	0.2000	0.1992	
24 Benzo[a]anthracene	228	11.317	11.316	0.001	75	1080	0.0100	0.0107	
* 25 Chrysene-d12	240	11.326	11.326	0.000	97	11787	0.2000	0.2000	
26 Chrysene	228	11.356	11.355	0.001	98	1189	0.0100	0.0103	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	99	1141	0.0100	0.0105	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	95	1401	0.0100	0.0114	
29 Benzo[a]pyrene	252	13.140	13.139	0.001	98	992	0.0100	0.0106	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	11383	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	86	931	0.0100	0.0107	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	99	659	0.0100	0.007982	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	85	1000	0.0100	0.009506	

Reagents:

SM_simSlviL2_00009 Amount Added: 1.00 Units: mL

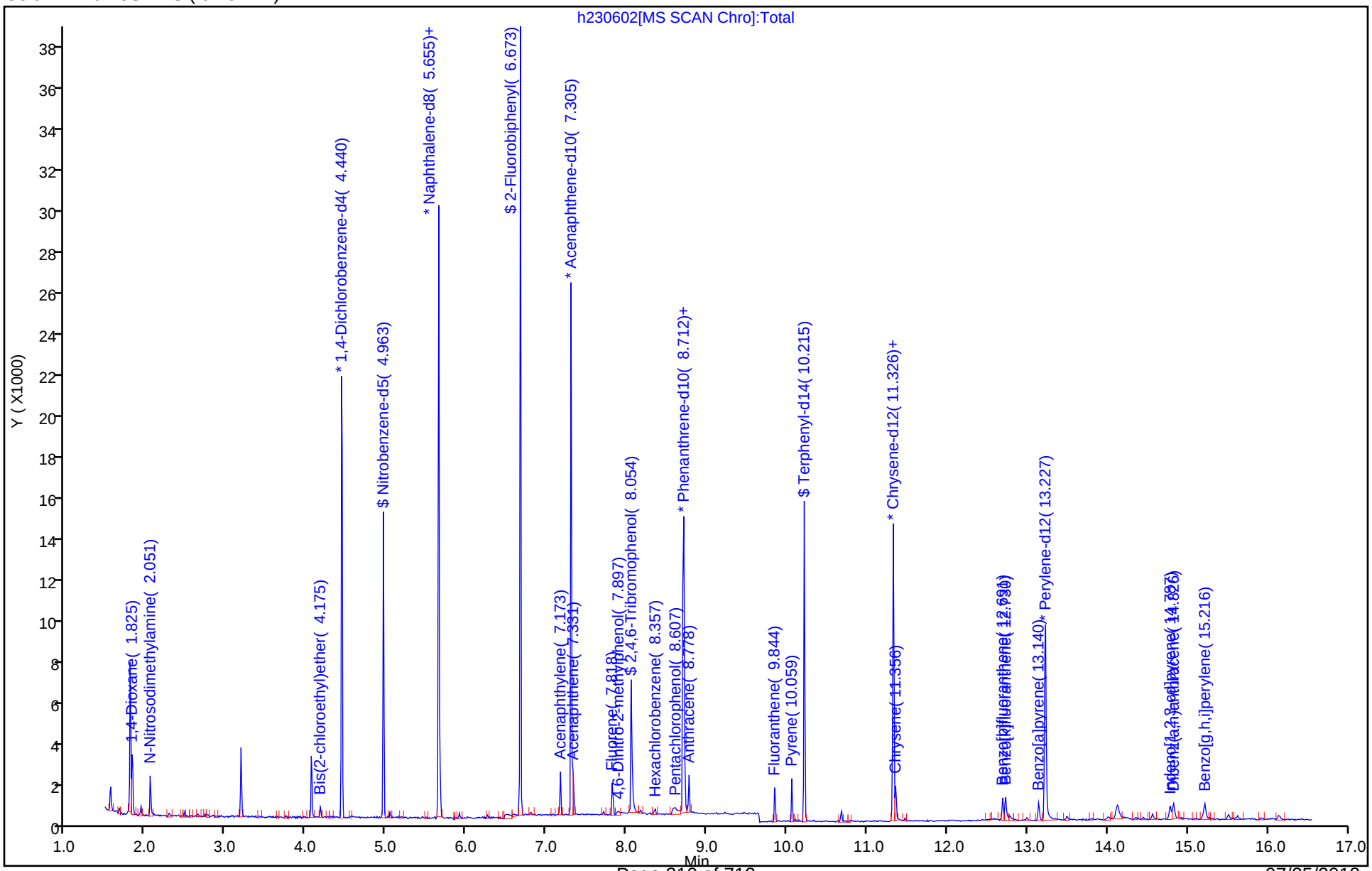
Report Date: 12-Jun-2018 09:44:45 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230602.D

Injection Date:	11-Jun-2018 19:40:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jun-2018 20:01:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-007
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:46 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:28:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	100	976	0.0400	0.0402	
2 N-Nitrosodimethylamine	74	2.067	2.051	0.016	91	447	0.0200	0.0222	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	93	83	0.002000	0.002095	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	100	7319	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	95	3702	0.1000	0.1021	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	20526	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	99	724	0.005000	0.005543	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	94	10805	0.1000	0.1120	
10 Acenaphthylene	152	7.173	7.173	0.000	99	707	0.005000	0.005683	
* 11 Acenaphthene-d10	164	7.304	7.305	0.000	100	9013	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	77	314	0.005000	0.005092	
13 Fluorene	166	7.817	7.818	-0.001	85	355	0.005000	0.004934	
14 4,6-Dinitro-2-methylphenol	198	7.857	7.870	-0.013	31	17	0.0400	0.0102	Ma
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	93	1714	0.1000	0.0921	
15 Hexachlorobenzene	284	8.357	8.357	0.000	85	93	0.002000	0.002184	a
16 Pentachlorophenol	266	8.633	8.541	0.092	85	143	0.0200	0.0200	Ma
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	99	15133	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	95	627	0.005000	0.004952	
19 Anthracene	178	8.778	8.778	0.000	98	646	0.005000	0.005458	
21 Fluoranthene	202	9.844	9.844	0.000	98	648	0.005000	0.005291	
22 Pyrene	202	10.059	10.059	0.000	100	676	0.005000	0.005506	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	97	4319	0.1000	0.1023	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	89	476	0.005000	0.005335	
* 25 Chrysene-d12	240	11.326	11.326	0.000	97	10376	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	545	0.005000	0.005345	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	99	511	0.005000	0.005256	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	94	517	0.005000	0.004718	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	99	411	0.005000	0.004924	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	10143	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	88	356	0.005000	0.004599	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	93	330	0.005000	0.004486	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	497	0.005000	0.005302	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL1_00009 Amount Added: 1.00 Units: mL

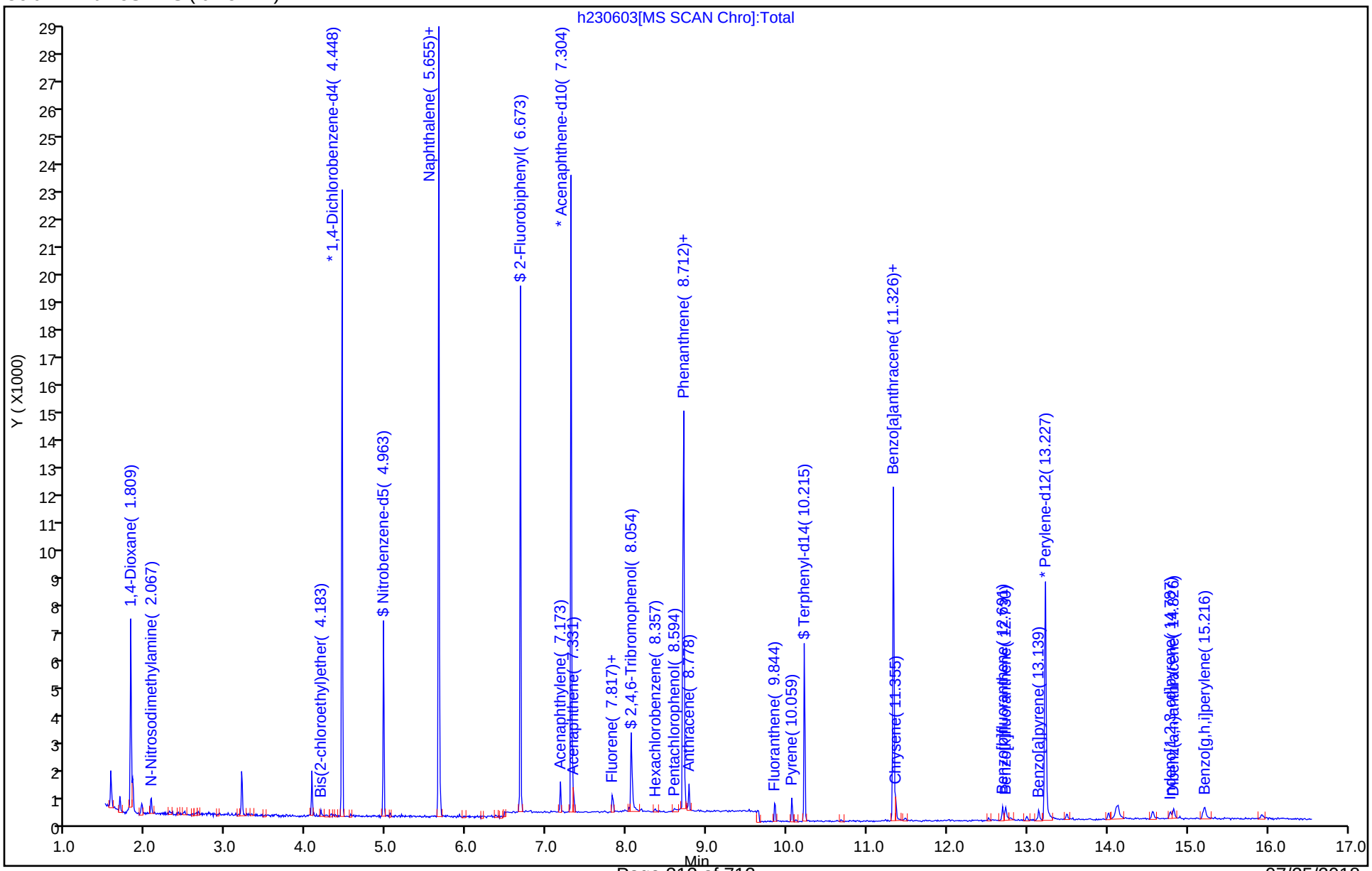
Report Date: 12-Jun-2018 09:44:46 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Injection Date:	11-Jun-2018 20:01:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std1			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-533482/2 Calibration Date: 07/05/2018 01:29

Instrument ID: CBNAMS9 Calib Start Date: 06/11/2018 18:10

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 06/11/2018 20:01

Lab File ID: h231251.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin2		0.4811		204	200	2.0	20.0
N-Nitrosodimethylamine	Ave	0.5496	0.4655		84.7	100	-15.3	20.0
Bis(2-chloroethyl)ether	Ave	1.082	0.8240		15.2	20.0	-23.9*	20.0
Naphthalene	Ave	1.273	1.110		17.4	20.0	-12.8	20.0
Acenaphthylene	Ave	2.761	2.241		16.2	20.0	-18.8	20.0
Acenaphthene	Ave	1.368	1.394		20.4	20.0	1.9	20.0
Fluorene	Ave	1.597	1.707		21.4	20.0	6.9	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0150		45.5	200	-77.3*	20.0
Hexachlorobenzene	Ave	0.5629	0.4554		16.2	20.0	-19.1	20.0
Pentachlorophenol	Qua2		0.0443		27.8	100	-72.2*	20.0
Phenanthrene	Ave	1.673	1.199		14.3	20.0	-28.4*	20.0
Anthracene	Ave	1.564	1.197		15.3	20.0	-23.5*	20.0
Fluoranthene	Ave	1.619	1.449		17.9	20.0	-10.5	20.0
Pyrene	Ave	2.367	1.777		15.0	20.0	-24.9*	20.0
Benzo[a]anthracene	Ave	1.720	1.436		16.7	20.0	-16.5	20.0
Chrysene	Ave	1.965	1.767		18.0	20.0	-10.1	20.0
Benzo[b]fluoranthene	Ave	1.917	1.252		13.1	20.0	-34.7*	20.0
Benzo[k]fluoranthene	Ave	2.161	1.669		15.4	20.0	-22.8*	20.0
Benzo[a]pyrene	Ave	1.646	1.389		16.9	20.0	-15.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.526	1.591		20.9	20.0	4.3	20.0
Dibenz(a,h)anthracene	Ave	1.451	1.142		15.7	20.0	-21.3*	20.0
Benzo[g,h,i]perylene	Ave	1.848	1.406		15.2	20.0	-23.9*	20.0
Nitrobenzene-d5	Ave	0.3531	0.3369		382	400	-4.6	20.0
2-Fluorobiphenyl	Ave	2.141	1.910		357	400	-10.8	20.0
2,4,6-Tribromophenol	Ave	0.4131	0.3911		379	400	-5.3	20.0
Terphenyl-d14	Ave	0.8140	0.8311		408	400	2.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Jul-2018 01:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:32:31 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:32:31

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.619	1.619	0.000	99	3036	0.2000	0.2039	
2 N-Nitrosodimethylamine	74	1.844	1.844	0.000	99	1469	0.1000	0.0847	
3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	84	520	0.0200	0.0152	
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	98	6311	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.000	92	11485	0.4000	0.3816	
* 7 Naphthalene-d8	136	5.400	5.400	0.000	99	17047	0.2000	0.2000	
8 Naphthalene	128	5.417	5.417	0.000	100	1892	0.0200	0.0174	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	96	32628	0.4000	0.3569	
10 Acenaphthylene	152	6.926	6.926	0.000	100	1914	0.0200	0.0162	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	96	8541	0.2000	0.2000	
12 Acenaphthene	154	7.084	7.084	0.000	93	1191	0.0200	0.0204	
13 Fluorene	166	7.584	7.584	0.000	94	1458	0.0200	0.0214	
14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	66	248	0.2000	0.0455	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	92	6680	0.4000	0.3786	
15 Hexachlorobenzene	284	8.097	8.097	0.000	97	755	0.0200	0.0162	
16 Pentachlorophenol	266	8.295	8.295	0.000	85	367	0.1000	0.0278	Ma
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	98	16579	0.2000	0.2000	
18 Phenanthrene	178	8.479	8.479	0.000	86	1987	0.0200	0.0143	
19 Anthracene	178	8.531	8.531	0.000	99	1985	0.0200	0.0153	
21 Fluoranthene	202	9.592	9.592	0.000	96	2403	0.0200	0.0179	
22 Pyrene	202	9.807	9.807	0.000	96	2601	0.0200	0.0150	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	99	24327	0.4000	0.4084	
24 Benzo[a]anthracene	228	11.016	11.016	0.000	83	2101	0.0200	0.0167	
* 25 Chrysene-d12	240	11.026	11.026	0.000	94	14635	0.2000	0.2000	
26 Chrysene	228	11.055	11.055	0.000	98	2586	0.0200	0.0180	
27 Benzo[b]fluoranthene	252	12.322	12.322	0.000	98	2159	0.0200	0.0131	
28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	90	2878	0.0200	0.0154	
29 Benzo[a]pyrene	252	12.751	12.751	0.000	99	2396	0.0200	0.0169	
* 30 Perylene-d12	264	12.819	12.819	0.000	100	17249	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.301	14.301	0.000	81	2745	0.0200	0.0209	
32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	91	1969	0.0200	0.0157	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.681	14.681	0.000	82	2425	0.0200	0.0152	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

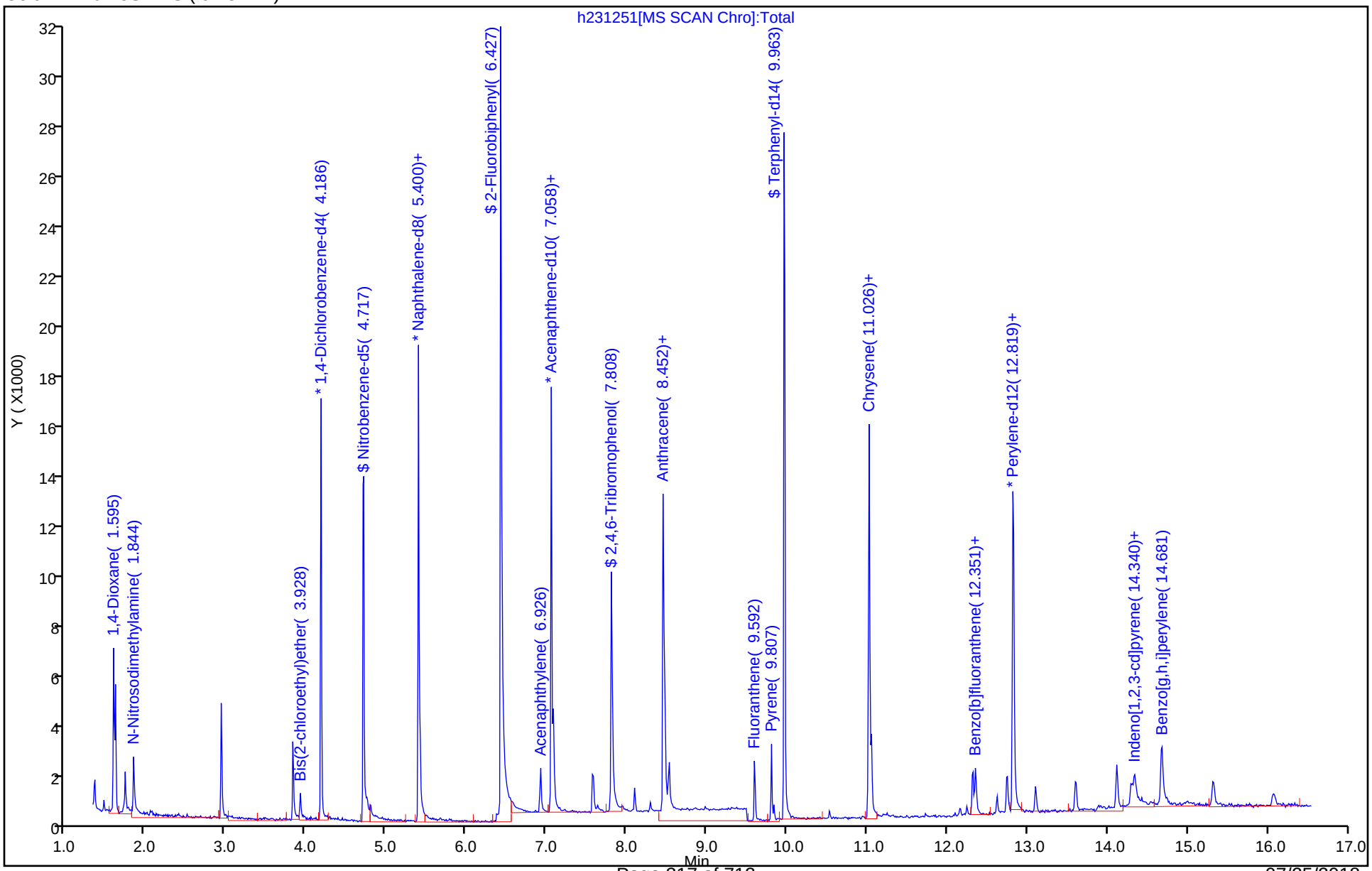
Report Date: 06-Jul-2018 13:32:33 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D

Injection Date:	05-Jul-2018 01:29:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

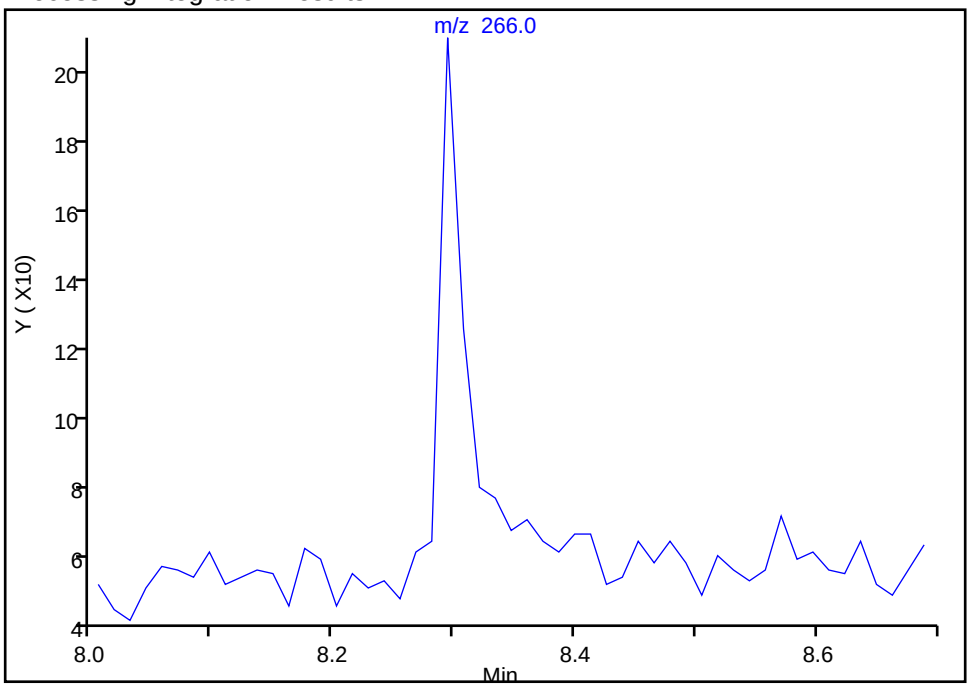
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D
Injection Date: 05-Jul-2018 01:29:30 Instrument ID: CBNAMS9
Lims ID: ccvis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

16 Pentachlorophenol, CAS: 87-86-5

Signal: 1

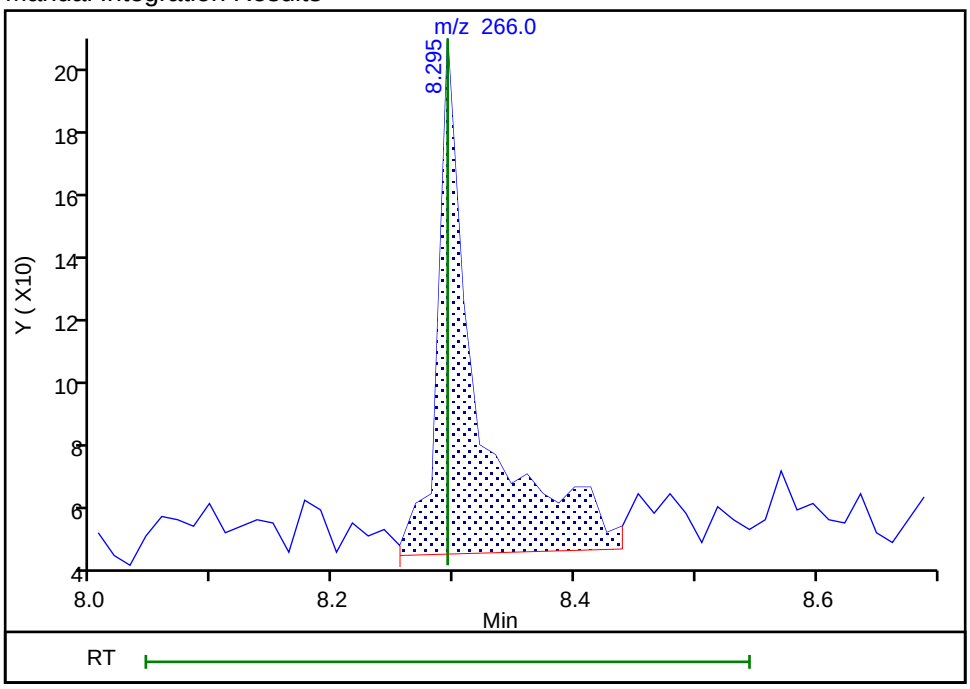
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 367
Amount: 0.027754
Amount Units: ug/ml



Reviewer: khlungprakhons, 06-Jul-2018 13:31:34
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Jun-2018 17:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:37 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: eisam Date: 11-Jun-2018 18:00:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	5.188	5.188	0.000	0	135629	NR	NR	
37 4,4'-DDD	235	5.599	5.599	0.000	0	0		NR	a
35 DFTPP									
36 Benzidine_T	184	6.889	6.889	0.000	0	692227	NR	NR	
38 4,4'-DDE	246	7.623	7.623	0.000	0	0		NR	a
39 4,4'-DDT	235	7.825	7.825	0.000	0	263704	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

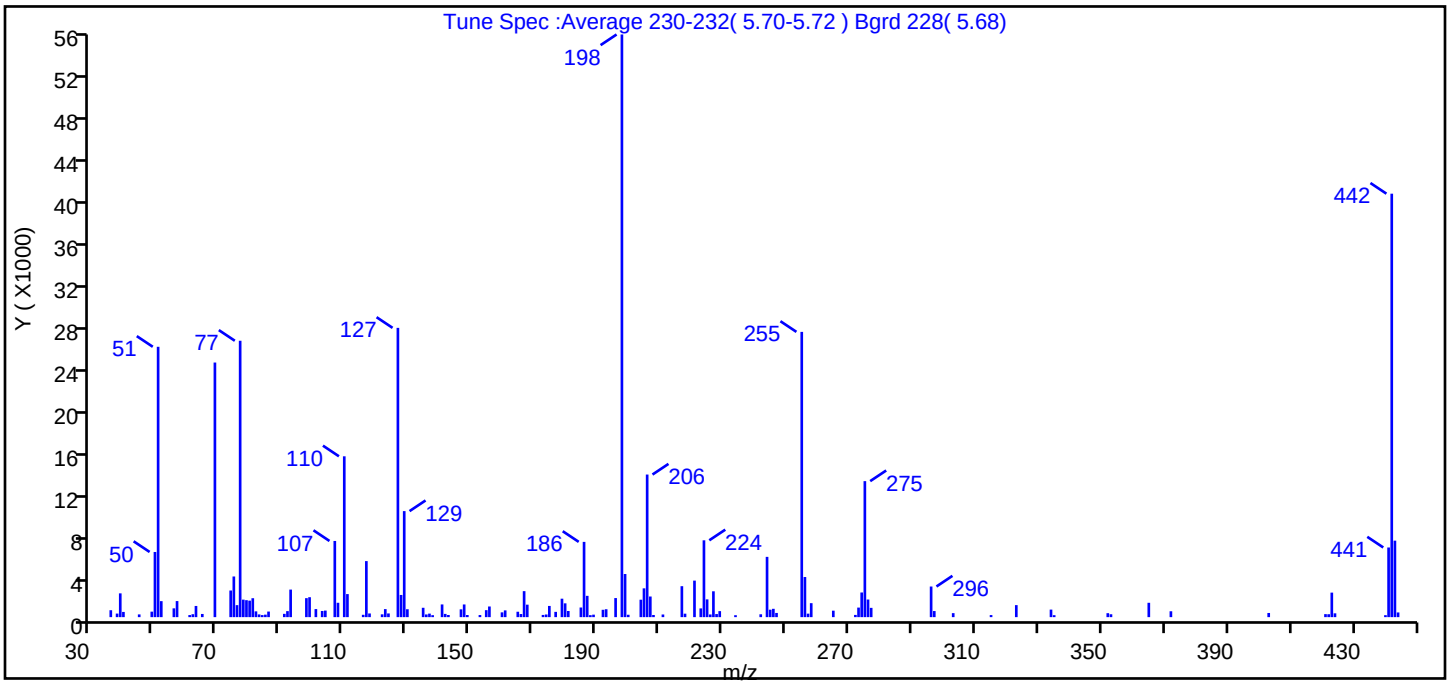
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	46.4
68	<2% of mass 69	0.0 (0.0)
69	Present	43.7
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-30% of mass 198	23.3
365	>1% of mass 198	2.5
441	Present but less than mass 443	12.0 (91.1)
442	>40% of mass 198	72.7
443	17-23% of mass 442	13.1 (18.1)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 11-Jun-2018 17:43:30
Spectrum: Tune Spec :Average 230-232(5.70-5.72) Bgrd 228(5.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	661	104.00	626	175.00	1070	246.00	796
38.00	341	107.00	7276	177.00	505	247.00	401
39.00	2272	108.00	1372	179.00	1763	255.00	27248
40.00	498	110.00	15363	180.00	1318	256.00	3832
45.00	261	111.00	2202	181.00	586	257.00	333
49.00	525	116.00	224	185.00	921	258.00	1335
50.00	6225	117.00	5353	186.00	7189	265.00	618
51.00	25824	118.00	352	187.00	2035	272.00	213
52.00	1528	122.00	268	188.00	190	273.00	913
56.00	841	123.00	767	189.00	237	274.00	2355
57.00	1535	124.00	353	192.00	702	275.00	12991
61.00	198	127.00	27632	193.00	756	276.00	1683
62.00	280	128.00	2119	196.00	1822	277.00	887
63.00	1068	129.00	10128	198.00	55656	296.00	2926
65.00	304	130.00	755	199.00	4120	297.00	582
69.00	24320	135.00	895	200.00	228	303.00	382
74.00	2544	136.00	257	204.00	1666	315.00	198
75.00	3884	137.00	337	205.00	2751	323.00	1148
76.00	1146	138.00	187	206.00	13621	334.00	721
77.00	26400	141.00	1214	207.00	1971	335.00	187
78.00	1673	142.00	309	208.00	206	352.00	379
79.00	1620	143.00	205	211.00	254	353.00	276
80.00	1575	147.00	745	217.00	2957	365.00	1371
81.00	1808	148.00	1212	218.00	331	372.00	562
82.00	553	149.00	204	221.00	3489	403.00	398
83.00	260	153.00	200	223.00	835	421.00	288
84.00	196	155.00	667	224.00	7339	422.00	279
85.00	238	156.00	1018	225.00	1698	423.00	2343
86.00	534	160.00	457	226.00	257	424.00	364
91.00	315	161.00	645	227.00	2469	440.00	188
92.00	574	165.00	516	228.00	295	441.00	6654
93.00	2632	166.00	297	229.00	574	442.00	40448
98.00	1814	167.00	2483	234.00	185	443.00	7306

Report Date: 12-Jun-2018 09:44:37 Chrom Revision: 2.2 11-May-2018 08:54:46
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 11-Jun-2018 17:43:30
Spectrum: Tune Spec :Average 230-232(5.70-5.72) Bgrd 228(5.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

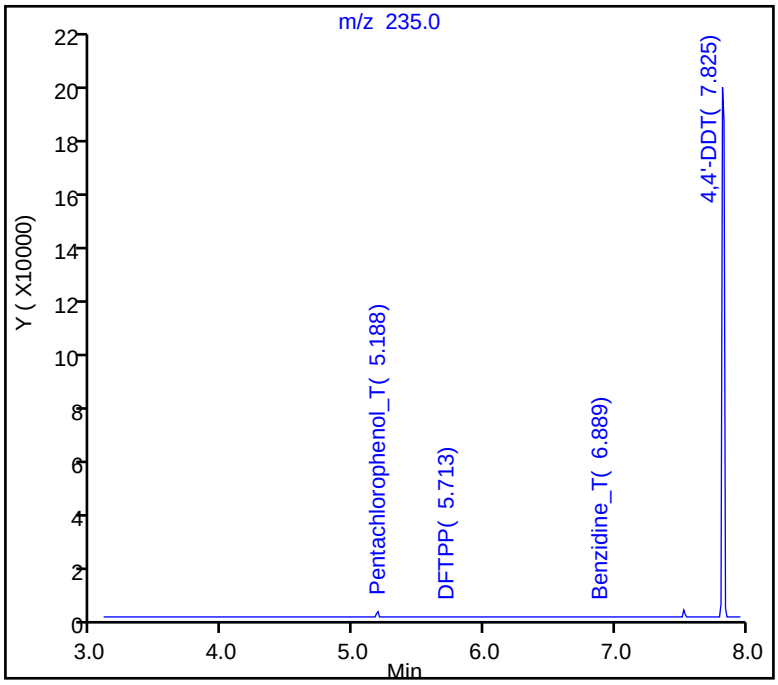
m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	1904	168.00	1192	242.00	274	444.00	447
101.00	770	173.00	211	244.00	5758		
103.00	589	174.00	254	245.00	711		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 263704
37 4,4'-DDD, Area = 0
38 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

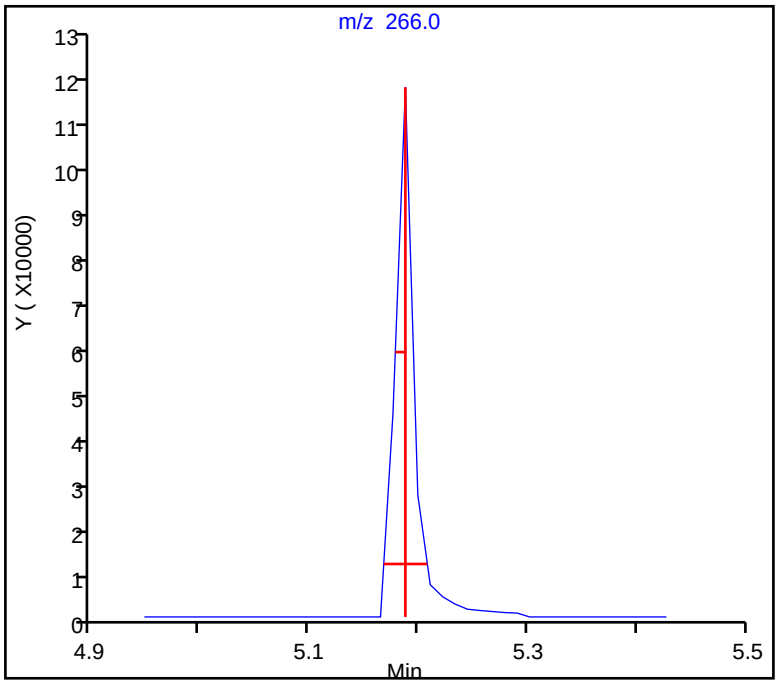
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.0, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

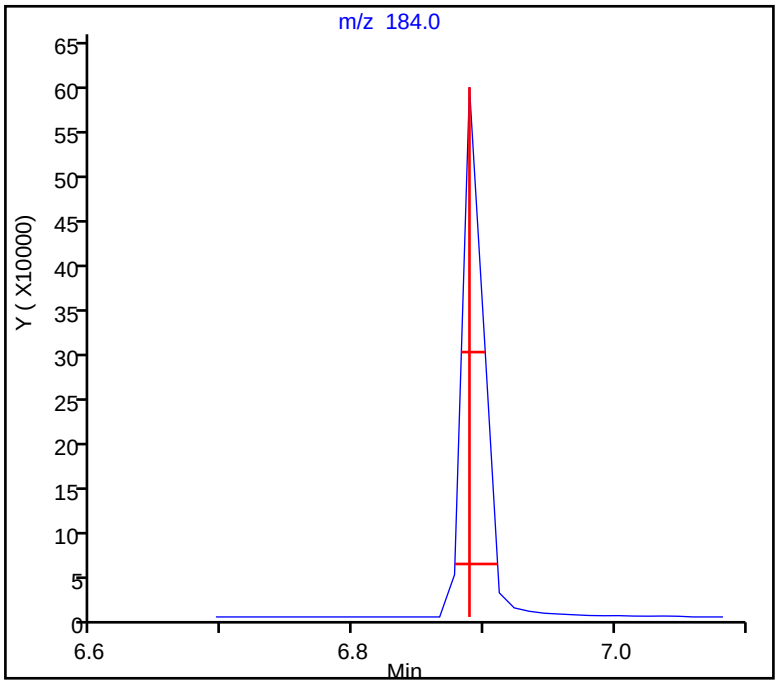
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.9, Max. Tailing < 3.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Jul-2018 01:12:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:30:17 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:30:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.879	4.879	0.000	0	68232	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.603	6.603	0.000	0	514658	NR	NR	
37 4,4'-DDD	235	7.231	7.231	0.000	0	2775		NR	
39 4,4'-DDT	235	7.540	7.540	0.000	0	247228	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

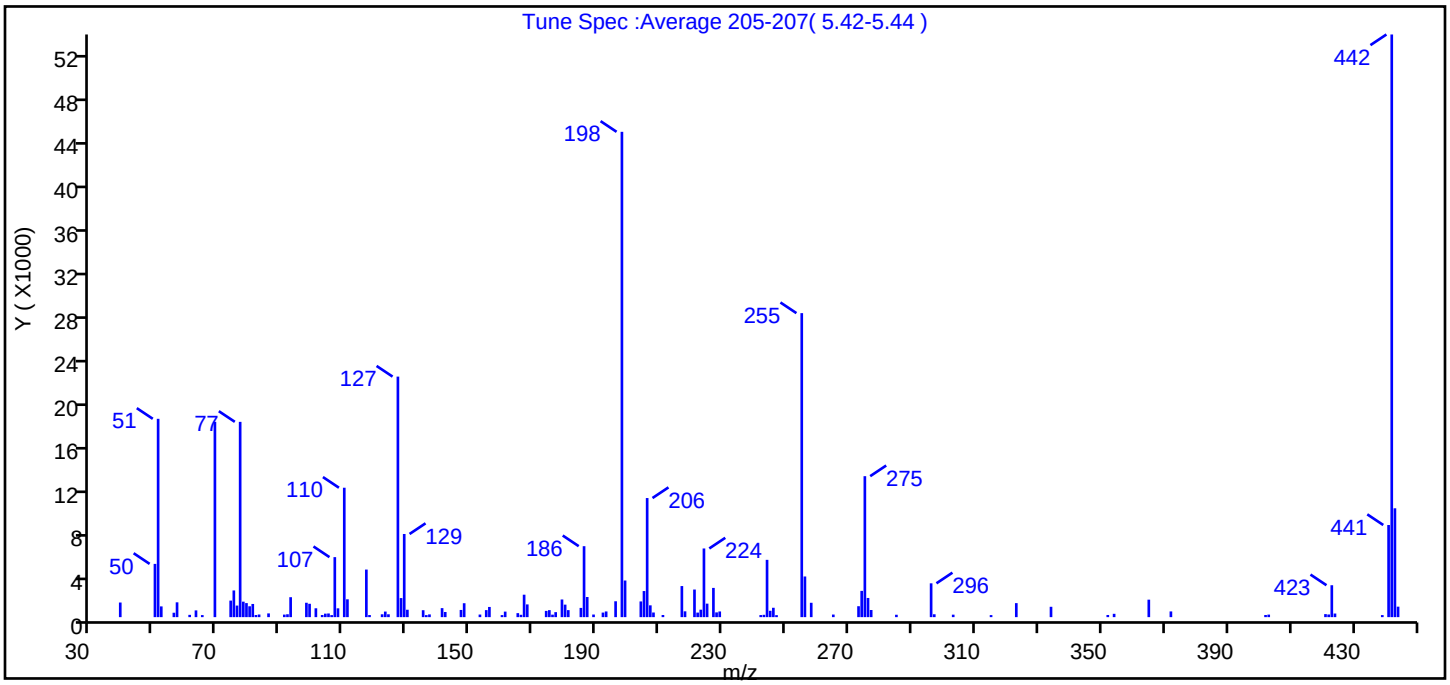
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.9
68	<2% of mass 69	0.0 (0.0)
69	Present	40.2
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.5
275	10-30% of mass 198	29.0
365	>1% of mass 198	3.6
441	Present but less than mass 443	19.0 (84.6)
442	>40% of mass 198	120.1
443	17-23% of mass 442	22.4 (18.7)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D\BNsurrSIM_LVI_9.rslt\spectra.
Injection Date: 05-Jul-2018 01:12:30
Spectrum: Tune Spec :Average 205-207(5.42-5.44)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1347	110.00	11923	181.00	646	256.00	3746
50.00	4906	111.00	1644	185.00	851	258.00	1323
51.00	18272	117.00	4384	186.00	6537	265.00	239
52.00	990	118.00	195	187.00	1854	273.00	1007
56.00	406	122.00	263	189.00	241	274.00	2420
57.00	1365	123.00	514	192.00	421	275.00	12987
61.00	211	124.00	263	193.00	525	276.00	1767
63.00	622	127.00	22160	196.00	1462	277.00	658
65.00	189	128.00	1756	198.00	44712	285.00	220
69.00	17992	129.00	7661	199.00	3375	296.00	3116
74.00	1524	130.00	682	204.00	1447	297.00	265
75.00	2460	135.00	639	205.00	2404	303.00	229
76.00	1066	136.00	187	206.00	10973	315.00	189
77.00	17992	137.00	252	207.00	1087	323.00	1291
78.00	1427	141.00	831	208.00	428	334.00	954
79.00	1294	142.00	475	211.00	197	352.00	199
80.00	1002	147.00	663	217.00	2864	354.00	307
81.00	1215	148.00	1282	218.00	536	365.00	1610
82.00	196	153.00	239	221.00	2544	372.00	527
83.00	243	155.00	648	222.00	419	402.00	198
86.00	345	156.00	939	223.00	687	403.00	234
91.00	235	160.00	188	224.00	6327	421.00	279
92.00	266	161.00	510	225.00	1244	422.00	244
93.00	1838	165.00	369	227.00	2694	423.00	2940
98.00	1326	166.00	216	228.00	438	424.00	332
99.00	1231	167.00	2068	229.00	524	439.00	189
101.00	817	168.00	1173	242.00	192	441.00	8488
103.00	196	174.00	576	243.00	214	442.00	53680
104.00	322	175.00	645	244.00	5279	443.00	10029
105.00	338	176.00	229	245.00	586	444.00	965
106.00	187	177.00	460	246.00	864		
107.00	5529	179.00	1627	247.00	184		
108.00	813	180.00	1152	255.00	28008		

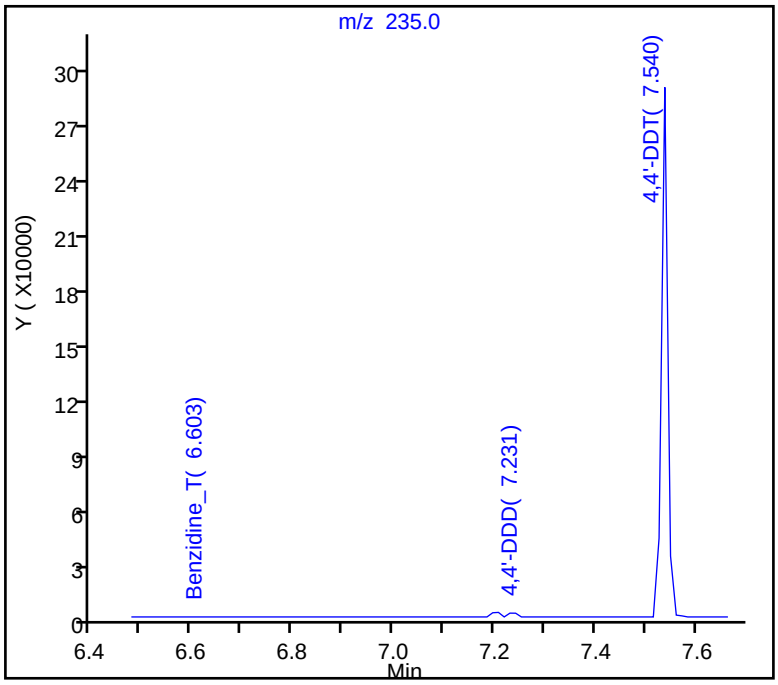
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1347	110.00	11923	181.00	646	256.00	3746
50.00	4906	111.00	1644	185.00	851	258.00	1323
51.00	18272	117.00	4384	186.00	6537	265.00	239
52.00	990	118.00	195	187.00	1854	273.00	1007
56.00	406	122.00	263	189.00	241	274.00	2420
57.00	1365	123.00	514	192.00	421	275.00	12987
61.00	211	124.00	263	193.00	525	276.00	1767
63.00	622	127.00	22160	196.00	1462	277.00	658
65.00	189	128.00	1756	198.00	44712	285.00	220
69.00	17992	129.00	7661	199.00	3375	296.00	3116
74.00	1524	130.00	682	204.00	1447	297.00	265
75.00	2460	135.00	639	205.00	2404	303.00	229
76.00	1066	136.00	187	206.00	10973	315.00	189
77.00	17992	137.00	252	207.00	1087	323.00	1291
78.00	1427	141.00	831	208.00	428	334.00	954
79.00	1294	142.00	475	211.00	197	352.00	199
80.00	1002	147.00	663	217.00	2864	354.00	307
81.00	1215	148.00	1282	218.00	536	365.00	1610
82.00	196	153.00	239	221.00	2544	372.00	527
83.00	243	155.00	648	222.00	419	402.00	198
86.00	345	156.00	939	223.00	687	403.00	234
91.00	235	160.00	188	224.00	6327	421.00	279
92.00	266	161.00	510	225.00	1244	422.00	244
93.00	1838	165.00	369	227.00	2694	423.00	2940
98.00	1326	166.00	216	228.00	438	424.00	332
99.00	1231	167.00	2068	229.00	524	439.00	189
101.00	817	168.00	1173	242.00	192	441.00	8488
103.00	196	174.00	576	243.00	214	442.00	53680
104.00	322	175.00	645	244.00	5279	443.00	10029
105.00	338	176.00	229	245.00	586	444.00	965
106.00	187	177.00	460	246.00	864		
107.00	5529	179.00	1627	247.00	184		
108.00	813	180.00	1152	255.00	28008		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 247228
37 4,4'-DDD, Area = 2775
38 4,4'-DDE, Area = 0

%Breakdown: 1.11%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

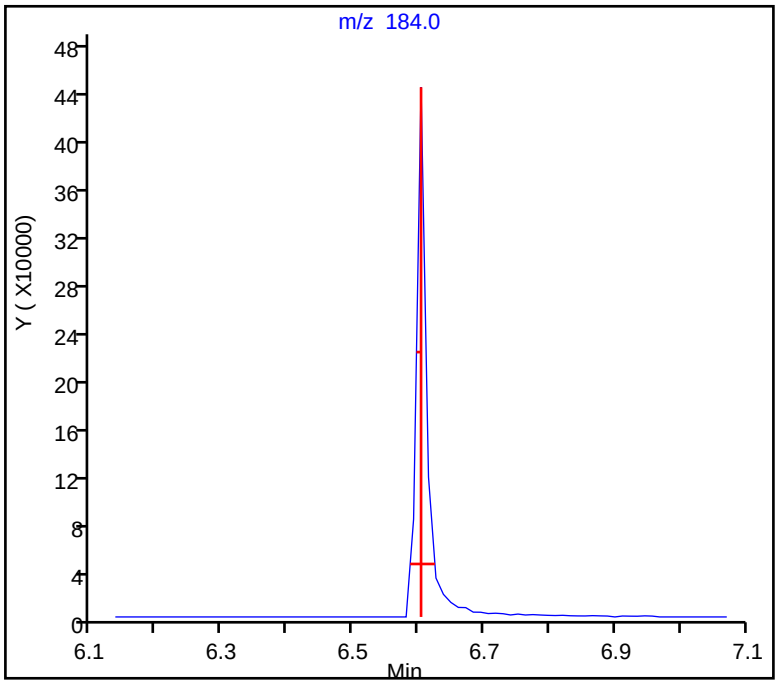
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

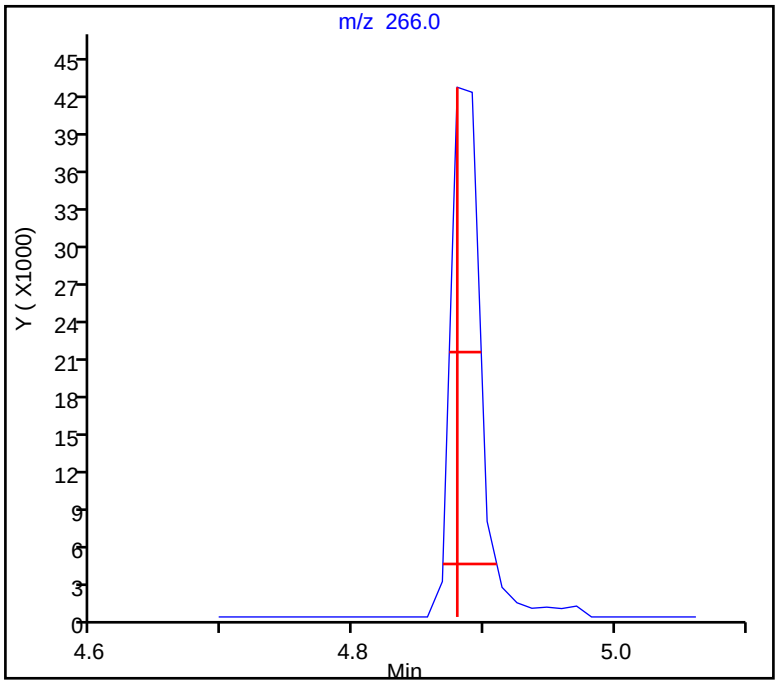
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.030 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 2.7, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533324/1-A

Matrix: Water | Lab File ID: h231275.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231275.D
Lims ID: MB 460-533324/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Jul-2018 10:02:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-026
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:49:30 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:49:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	99	4252	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	22316	1.00	1.07	
* 7 Naphthalene-d8	136	5.400	5.400	0.000	98	11788	0.2000	0.2000	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	56708	1.00	0.8352	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	96	6343	0.2000	0.2000	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	95	12564	1.00	0.9589	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12411	0.2000	0.2000	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	97	49428	1.00	1.13	
* 25 Chrysene-d12	240	11.026	11.026	0.000	92	10783	0.2000	0.2000	
* 30 Perylene-d12	264	12.829	12.819	0.010	99	11148	0.2000	0.2000	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

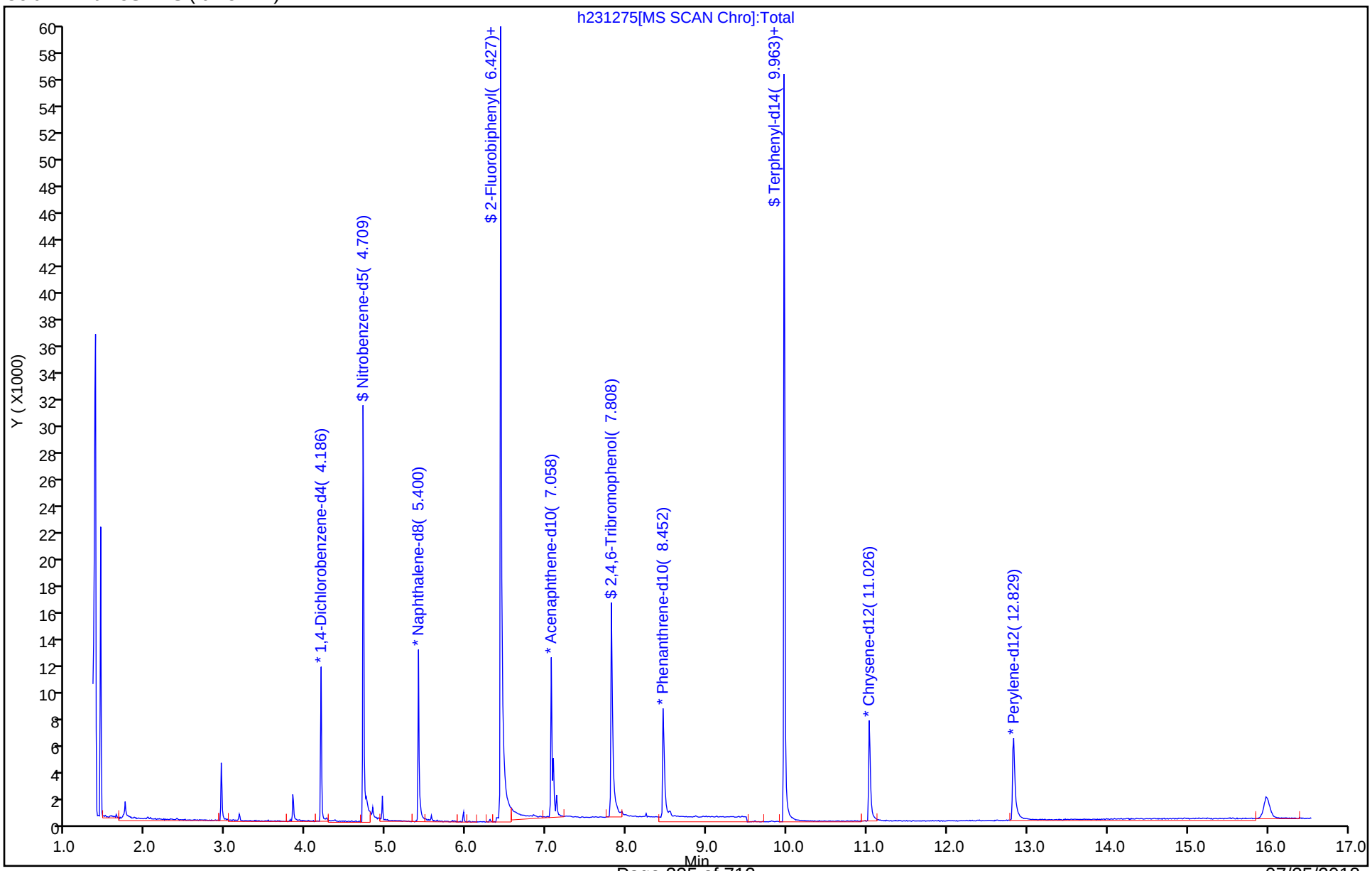
Report Date: 06-Jul-2018 13:49:30 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231275.D

Injection Date:	05-Jul-2018 10:02:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	MB 460-533324/1-A			Worklist Smp#:	26
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533324/6-A

Matrix: Water | Lab File ID: h231276.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.245	J	0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231276.D
Lims ID: LCS 460-533324/6-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Jul-2018 10:23:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-027
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:50:30 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:50:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.627	1.619	0.008	98	476	0.1000	0.0306	
2 N-Nitrosodimethylamine	74	1.852	1.844	0.008	87	351	0.1000	0.0304	
3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	85	2074	0.1000	0.0911	
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	99	4208	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	19992	1.00	0.9303	
* 7 Naphthalene-d8	136	5.401	5.400	0.001	98	12171	0.2000	0.2000	
8 Naphthalene	128	5.417	5.417	0.000	100	6181	0.1000	0.0798	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	56846	1.00	0.9095	
10 Acenaphthylene	152	6.913	6.926	-0.013	99	5932	0.1000	0.0736	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	95	5839	0.2000	0.2000	
12 Acenaphthene	154	7.084	7.084	0.000	95	4385	0.1000	0.1098	
13 Fluorene	166	7.571	7.584	-0.013	95	5809	0.1000	0.1246	
14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	76	366	0.2000	0.0809	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	89	12539	1.00	1.04	
15 Hexachlorobenzene	284	8.097	8.097	0.000	99	2780	0.1000	0.0794	
16 Pentachlorophenol	266	8.295	8.295	0.000	90	903	0.2000	0.0585	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12443	0.2000	0.2000	
18 Phenanthrene	178	8.479	8.479	0.000	95	8060	0.1000	0.0774	
19 Anthracene	178	8.531	8.531	0.000	99	8130	0.1000	0.0835	
21 Fluoranthene	202	9.593	9.593	0.001	96	10053	0.1000	0.0998	
22 Pyrene	202	9.807	9.807	0.000	96	9924	0.1000	0.0835	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	97	44276	1.00	1.08	
24 Benzo[a]anthracene	228	11.016	11.016	0.000	26	7974	0.1000	0.0923	
* 25 Chrysene-d12	240	11.026	11.026	0.000	90	10045	0.2000	0.2000	
26 Chrysene	228	11.055	11.055	0.000	98	11227	0.1000	0.1137	
27 Benzo[b]fluoranthene	252	12.322	12.322	0.000	100	8069	0.1000	0.0771	
28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	87	12673	0.1000	0.1074	
29 Benzo[a]pyrene	252	12.741	12.751	-0.010	100	8501	0.1000	0.0946	
* 30 Perylene-d12	264	12.819	12.819	0.000	100	10922	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.301	14.301	0.000	88	6529	0.1000	0.0783	M
32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	95	8567	0.1000	0.1082	
33 Benzo[g,h,i]perylene	276	14.681	14.692	0.000	77	10430	0.1000	0.1033	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

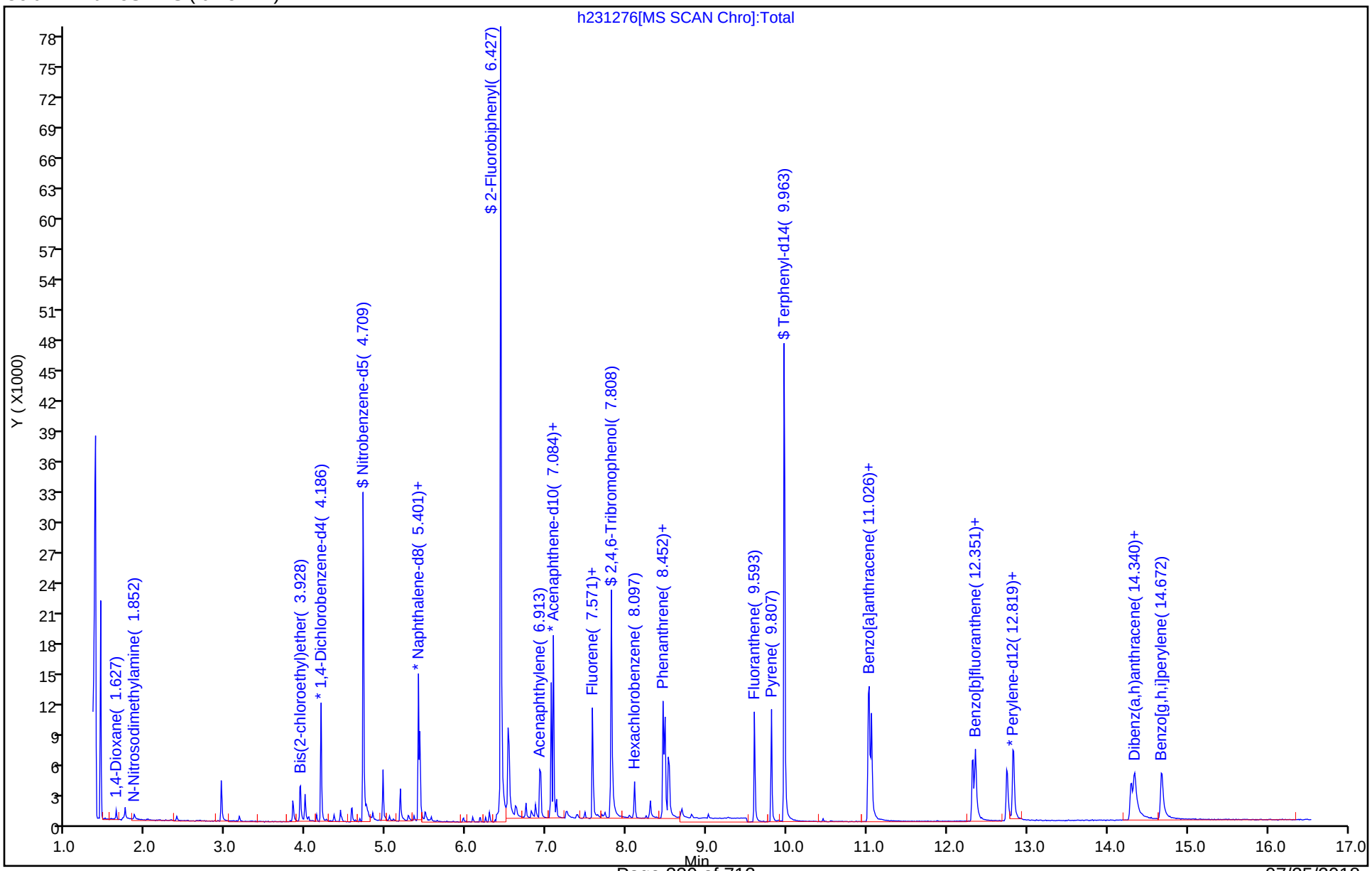
Report Date: 06-Jul-2018 13:50:31 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231276.D

Injection Date:	05-Jul-2018 10:23:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	LCS 460-533324/6-A			Worklist Smp#:	27
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533324/7-A

Matrix: Water | Lab File ID: h231277.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.240	J	0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231277.D
Lims ID: LCSD 460-533324/7-A
Client ID:
Sample Type: LCSD
Inject. Date: 05-Jul-2018 10:45:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-028
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:51:05 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:51:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.627	1.619	0.008	86	488	0.1000	0.0300	
2 N-Nitrosodimethylamine	74	1.852	1.844	0.008	77	323	0.1000	0.0269	
3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	86	2161	0.1000	0.0914	
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	96	4368	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	22020	1.00	1.03	
* 7 Naphthalene-d8	136	5.400	5.400	0.000	98	12158	0.2000	0.2000	
8 Naphthalene	128	5.417	5.417	0.000	100	5983	0.1000	0.0773	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	61680	1.00	0.99	
10 Acenaphthylene	152	6.913	6.926	-0.013	99	6108	0.1000	0.0762	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	94	5809	0.2000	0.2000	
12 Acenaphthene	154	7.084	7.084	0.000	95	4520	0.1000	0.1137	
13 Fluorene	166	7.571	7.584	-0.013	91	5835	0.1000	0.1258	
14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	76	330	0.2000	0.0730	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	90	13947	1.00	1.16	
15 Hexachlorobenzene	284	8.097	8.097	0.000	99	2907	0.1000	0.0818	
16 Pentachlorophenol	266	8.295	8.295	0.000	86	926	0.2000	0.0590	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12630	0.2000	0.2000	
18 Phenanthrene	178	8.479	8.479	0.000	96	8349	0.1000	0.0790	
19 Anthracene	178	8.518	8.531	-0.013	97	8405	0.1000	0.0851	
21 Fluoranthene	202	9.593	9.593	0.001	95	10242	0.1000	0.1002	
22 Pyrene	202	9.807	9.807	0.000	96	10420	0.1000	0.0853	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	98	47296	1.00	1.13	
24 Benzo[a]anthracene	228	11.016	11.016	0.000	30	8202	0.1000	0.0924	
* 25 Chrysene-d12	240	11.026	11.026	0.000	91	10320	0.2000	0.2000	
26 Chrysene	228	11.055	11.055	0.000	99	11321	0.1000	0.1116	
27 Benzo[b]fluoranthene	252	12.312	12.322	-0.010	100	8168	0.1000	0.0769	
28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	95	12290	0.1000	0.1026	
29 Benzo[a]pyrene	252	12.741	12.751	-0.010	100	8745	0.1000	0.0959	
* 30 Perylene-d12	264	12.819	12.819	0.000	99	11087	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.291	14.291	-0.010	89	6681	0.1000	0.0790	M
32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	92	7935	0.1000	0.0987	
33 Benzo[g,h,i]perylene	276	14.681	14.692	0.000	74	10596	0.1000	0.1034	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMISTDLVI_00023	Amount Added: 20.00	Units: uL	Run Reagent	

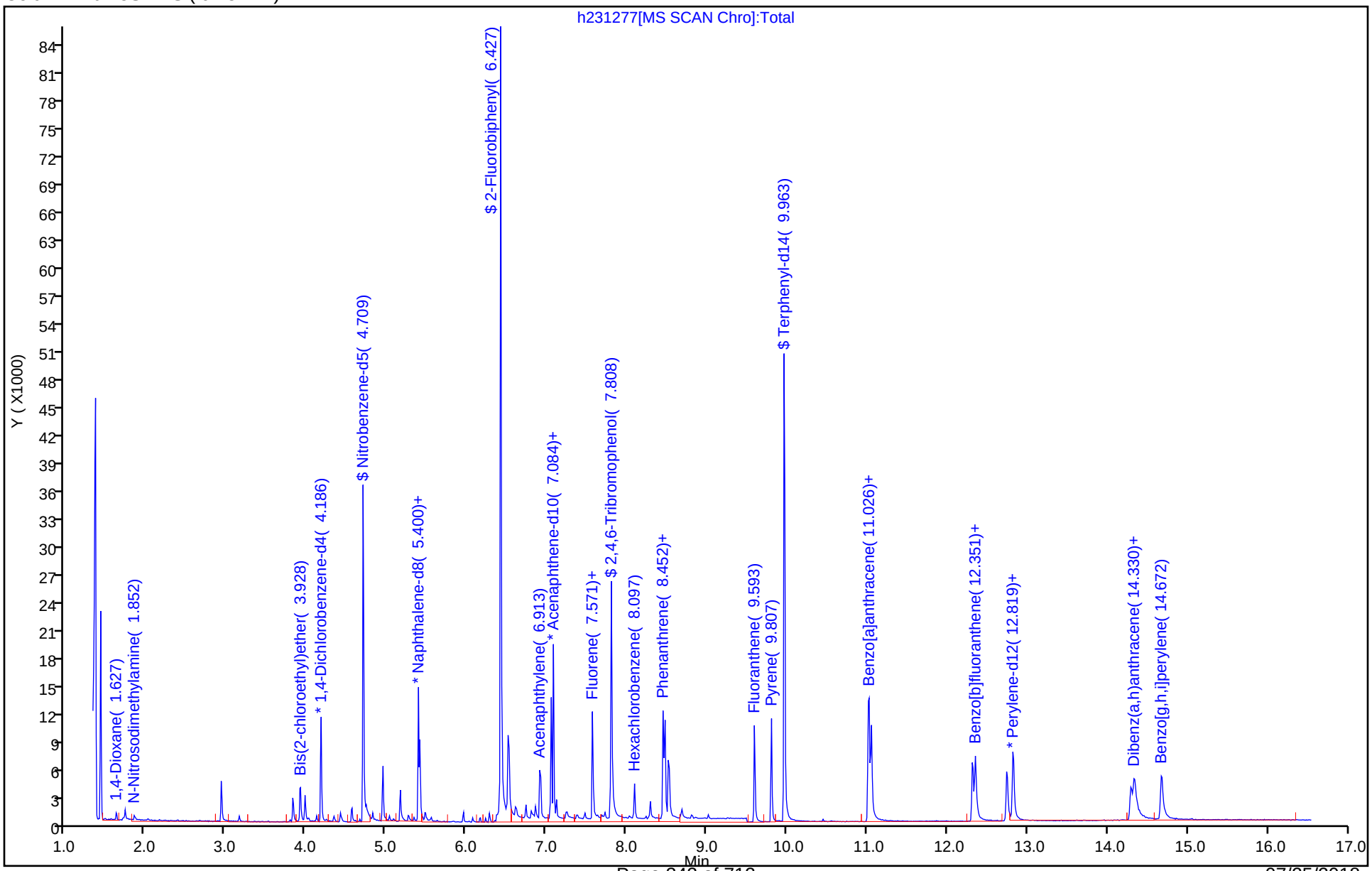
Report Date: 06-Jul-2018 13:51:05 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231277.D

Injection Date:	05-Jul-2018 10:45:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	LCSD 460-533324/7-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 06/11/2018 17:43

Analysis Batch Number: 526858 End Date: 06/11/2018 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-526858/1		06/11/2018 17:43	1	h230597.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-526858/2		06/11/2018 18:10	1	h230598.D	Rtxi-5Sil MS 0.25(mm)
STD6 460-526858/3 IC		06/11/2018 18:36	1	h230599.D	Rtxi-5Sil MS 0.25(mm)
STD5 460-526858/4 IC		06/11/2018 18:58	1	h230600.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-526858/5 IC		06/11/2018 19:19	1	h230601.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-526858/6 IC		06/11/2018 19:40	1	h230602.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-526858/7 IC		06/11/2018 20:01	1	h230603.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-526858/8		06/11/2018 20:22	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 07/05/2018 01:12

Analysis Batch Number: 533482 End Date: 07/05/2018 12:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-533482/1		07/05/2018 01:12	1	h231250b.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-533482/2		07/05/2018 01:29	1	h231251.D	Rtxi-5Sil MS 0.25(mm)
MB 460-533324/1-A		07/05/2018 10:02	1	h231275.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-533324/6-A		07/05/2018 10:23	1	h231276.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-533324/7-A		07/05/2018 10:45	1	h231277.D	Rtxi-5Sil MS 0.25(mm)
460-159314-4		07/05/2018 12:09	1	h231281.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 533324 Batch Start Date: 07/03/18 20:11 Batch Analyst: Yallabandi, Gopichand X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SIM SP 00015
MB 460-533324/1		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-533324/6		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
LCSD 460-533324/7		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
460-159314-F-4	PDI-MW-161-1-I-06262018	3510C, 8270C	T	245 mL	2 mL	7 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00014					
MB 460-533324/1		3510C, 8270C		20 uL					
LCS 460-533324/6		3510C, 8270C		20 uL					
LCSD 460-533324/7		3510C, 8270C		20 uL					
460-159314-F-4	PDI-MW-161-1-I-06262018	3510C, 8270C	T	20 uL					

Batch Notes	
Batch Comment	3510C LVI 8270D SIM ONLY
Analyst ID - Concentration	gy
Equipment ID - Concentration 1	BNA
Analyst ID - Extraction	gy
Method/Fraction	BNA SIM ONLY
Na2SO4 ID	167549
Pipette/Syringe/Dispenser ID	BNA
Prep Solvent ID	202207 mecl
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	gy
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	PFOA #	PFNA #
PDI-MW-161-1-I-062 62018	460-159314-4	32	33	32	35	35	34	33	32
	MB 320-232888/1-A	81	78	77	79	84	93	87	87
	LCS 320-232888/2-A	87	81	81	87	93	92	90	91
	LCSD 320-232888/3-A	83	82	78	84	86	87	89	89

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3-PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHpA = 13C4-PFHpA	25-150
PFHxS = 18O2 PFHxS	25-150
PFOA = 13C4 PFOA	25-150
PFNA = 13C5 PFNA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFOSA #	PFDA #	PFUnA #	PFDoA #	PFTDA #
PDI-MW-161-1-I-062 62018	460-159314-4	30	25	31	30	26	21 *
	MB 320-232888/1-A	85	75	88	85	87	80
	LCS 320-232888/2-A	86	80	93	91	88	83
	LCSD 320-232888/3-A	86	77	90	92	85	80

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFOSA = 13C8 FOSA	25-150
PFDA = 13C2 PFDA	25-150
PFUnA = 13C2 PFUnA	25-150
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2-PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.07.10LLB_049.d

Lab ID: LCS 320-232888/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	37.3	93	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	38.4	96	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	38.9	97	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	37.4	93	66-126	
Perfluorooctanoic acid (PFOA)	40.0	39.1	98	64-124	
Perfluorononanoic acid (PFNA)	40.0	40.3	101	68-128	
Perfluorodecanoic acid (PFDA)	40.0	37.6	94	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	36.5	91	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	38.4	96	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0	82	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6	94	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6	101	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8	93	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0	108	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9	102	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6	92	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	40.0	100	70-130	
13C8 FOSA	100	79.6	80	25-150	
13C4 PFBA	100	86.9	87	25-150	
13C2 PFHxA	100	87.0	87	25-150	
13C4 PFOA	100	90.1	90	25-150	
13C5 PFNA	100	90.7	91	25-150	
13C2 PFDA	100	92.7	93	25-150	
13C2 PFUnA	100	90.6	91	25-150	
13C2 PFDoA	100	88.2	88	25-150	
18O2 PFHxS	94.6	86.7	92	25-150	
13C4 PFOS	95.6	82.1	86	25-150	
13C4-PFHpA	100	92.7	93	25-150	
13C5 PFPeA	100	81.1	81	25-150	
13C3-PFBS	93.0	75.7	81	25-150	
13C2-PFTeDA	100	82.6	83	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.07.10LLB_050.d

Lab ID: LCSD 320-232888/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	36.7	92	2	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	36.2	90	6	30	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	38.0	95	2	30	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	38.8	97	4	30	66-126	
Perfluorooctanoic acid (PFOA)	40.0	39.9	100	2	30	64-124	
Perfluorononanoic acid (PFNA)	40.0	39.1	98	3	30	68-128	
Perfluorodecanoic acid (PFDA)	40.0	38.9	97	3	30	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	35.3	88	3	30	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	38.1	95	1	30	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	33.1	83	0	30	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.1	95	1	30	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3	97	4	30	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8	90	3	30	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1	100	7	30	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.0	94	8	30	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.3	89	4	30	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	38.0	95	5	30	70-130	
13C8 FOSA	100	76.8	77			25-150	
13C4 PFBA	100	82.7	83			25-150	
13C2 PFHxA	100	84.1	84			25-150	
13C4 PFOA	100	88.9	89			25-150	
13C5 PFNA	100	88.8	89			25-150	
13C2 PFDA	100	90.0	90			25-150	
13C2 PFUnA	100	91.9	92			25-150	
13C2 PFDoA	100	84.8	85			25-150	
18O2 PFHxS	94.6	82.6	87			25-150	
13C4 PFOS	95.6	82.3	86			25-150	
13C4-PFHpA	100	85.8	86			25-150	
13C5 PFPeA	100	81.5	82			25-150	
13C3-PFBS	93.0	72.4	78			25-150	
13C2-PFTeDA	100	79.7	80			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab File ID: 2018.07.10LLB_048.d Lab Sample ID: MB 320-232888/1-A

Matrix: Water Date Extracted: 07/07/2018 09:25

Instrument ID: A8_N Date Analyzed: 07/11/2018 01:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-232888/2-A	2018.07.10LLB_049.d	07/11/2018 01:58
	LCSD 320-232888/3-A	2018.07.10LLB_050.d	07/11/2018 02:06
PDI-MW-161-1-I-06262018	460-159314-4	2018.07.12LLC_044.d	07/13/2018 01:28

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: IC 320-232544/5 Date Analyzed: 07/05/2018 09:14

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.05LLICALAA_ Heated Purge: (Y/N) N

Calibration ID: 39943

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4451960	2.67				
UPPER LIMIT		6677940	2.87				
LOWER LIMIT		2225980	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-232544/9		4449433	2.67				
ICV 320-232544/10		4482111	2.66				
CCV 320-233302/3 CCVIS		4224633	2.66				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: CCV 320-233302/3 Date Analyzed: 07/10/2018 20:22

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.10LLB_006.d Heated Purge: (Y/N) N

Calibration ID: 39943

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4224633	2.66				
UPPER LIMIT		6336950	2.86				
LOWER LIMIT		2112317	2.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-233302/1		4312238	2.67				
CCVL 320-233302/2		4383599	2.67				
CCV 320-233309/1		4077182	2.65				
MB 320-232888/1-A		5197613	2.66				
LCS 320-232888/2-A		4997419	2.66				
LCSD 320-232888/3-A		4964090	2.66				
CCV 320-233309/12		3626486	2.66				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: IC 320-233476/5 Date Analyzed: 07/11/2018 15:15

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.11LLICALA_0 Heated Purge: (Y/N) N

Calibration ID: 39998

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4343809	2.67				
UPPER LIMIT		6515714	2.87				
LOWER LIMIT		2171905	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-233476/9		3951281	2.66				
ICV 320-233476/10		4109601	2.67				
CCV 320-233780/3 CCVIS		3599316	2.67				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: CCV 320-233780/3 Date Analyzed: 07/13/2018 00:17

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.12LLC_035.d Heated Purge: (Y/N) N

Calibration ID: 39998

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3599316	2.67				
UPPER LIMIT		5398974	2.87				
LOWER LIMIT		1799658	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-233780/1		3817065	2.68				
CCVL 320-233780/2		3802645	2.67				
460-159314-4	PDI-MW-161-1-I-06262018	4571818	2.67				
CCV 320-233780/13		2847127	2.67				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: 2018.07.12LLC_044.d

Analysis Method: 537 (modified) | Date Collected: 06/26/2018 11:10

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 110.3(mL) | Date Analyzed: 07/13/2018 01:28

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233780 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	14		4.5	0.79
2706-90-3	Perfluoropentanoic acid (PFPeA)	19		4.5	1.1
307-24-4	Perfluorohexanoic acid (PFHxA)	19		4.5	1.3
375-85-9	Perfluoroheptanoic acid (PFHpA)	15		4.5	0.57
335-67-1	Perfluorooctanoic acid (PFOA)	39		4.5	1.9
375-95-1	Perfluorononanoic acid (PFNA)	14		4.5	0.61
335-76-2	Perfluorodecanoic acid (PFDA)	1.5	J	4.5	0.70
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		4.5	2.5
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		4.5	1.2
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		4.5	2.9
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		4.5	0.66
375-73-5	Perfluorobutanesulfonic acid (PFBS)	3.5	J	4.5	0.45
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.5	J	4.5	0.39
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		4.5	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	43		4.5	1.2
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		4.5	0.73
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		4.5	0.79

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 Lab Sample ID: 460-159314-4

Matrix: Water Lab File ID: 2018.07.12LLC_044.d

Analysis Method: 537 (modified) Date Collected: 06/26/2018 11:10

Extraction Method: 3535 Date Extracted: 07/07/2018 09:25

Sample wt/vol: 110.3(mL) Date Analyzed: 07/13/2018 01:28

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 233780 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	25		25-150
STL00992	13C4 PFBA	32		25-150
STL00993	13C2 PFHxA	35		25-150
STL00990	13C4 PFOA	33		25-150
STL00995	13C5 PFNA	32		25-150
STL00996	13C2 PFDA	31		25-150
STL00997	13C2 PFUnA	30		25-150
STL00998	13C2 PFDoA	26		25-150
STL00994	18O2 PFHxS	34		25-150
STL00991	13C4 PFOS	30		25-150
STL01892	13C4-PFHpA	35		25-150
STL01893	13C5 PFPeA	33		25-150
STL02337	13C3-PFBS	32		25-150
STL02116	13C2-PFTeDA	21	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d
Lims ID: 460-159314-D-4-A
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 13-Jul-2018 01:28:11 ALS Bottle#: 30 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-159314-d-4-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:17:44 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:17:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.424	1.424	0.0	1.000	122856	0.1592			52.5	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.429	-0.005	0.534	1957504	0.7894		31.6	11696	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.719	0.0	0.645	1426098	0.8274		33.1	14329	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.720	-0.001	1.000	146784	0.2121			35.6	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.764	-0.008	0.658	32587	0.7523		32.4	153	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.756	1.765	-0.009	1.000	41873	0.0391			12.4	M
298.90 > 99.00	1.756	1.765	-0.009	1.000	18399		2.28(1.25-3.74)		64.3	M
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.003	-0.001	1.000	136893	0.2052			106	
313.00 > 119.00	2.002	2.003	-0.001	1.000	11977		11.43(5.03-15.10)		140	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.014	-0.012	0.751	1619991	0.8709		34.8	42993	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.869	1504229	0.8778		35.1	37470	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.320	-0.001	1.000	117033	0.1682			134	
363.00 > 169.00	2.319	2.320	-0.001	1.000	46538		2.51(1.13-3.40)		454	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.333	-0.001	1.000	37172	0.0391			69.3	
399.00 > 99.00	2.332	2.333	-0.001	1.000	12384		3.00(1.50-4.49)		68.5	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.345	-0.013	0.874	1958734	0.8068		34.1	38246	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.668	-0.001		4571818	2.50			50541	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.668	-0.001	1.000	312377	0.4340			209	
413.00 > 169.00	2.667	2.668	-0.001	1.000	157157		1.99(0.84-2.52)		1016	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.674	-0.007	1.000	1461012	0.8357		33.4	30691	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.028	3.024	0.004	1.000	290576	0.4778			2536	
499.00 > 99.00	3.028	3.024	0.004	1.000	58004		5.01(2.31-6.93)		1286	
20 Perfluorononanoic acid										
463.00 > 419.00	3.028	3.024	0.004	1.000	82760	0.1512			181	
463.00 > 169.00	3.028	3.024	0.004	1.000	19710		4.20(1.90-5.69)		755	
D 19 13C5 PFNA										
468.00 > 423.00	3.028	3.030	-0.002	1.135	1233329	0.7891		31.6	23990	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.030	-0.002	1.135	1282773	0.7201		30.1	12962	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.368	-0.003	1.262	1604777	0.6247		25.0	20529	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.383	3.380	0.003	1.000	7385	0.0167			43.0	
513.00 > 169.00	3.393	3.380	0.013	1.003	1247		5.92(2.36-7.09)		33.1	
D 23 13C2 PFDA										
515.00 > 470.00	3.383	3.387	-0.004	1.269	1056516	0.7700		30.8	12704	
D 30 13C2 PFUnA										
565.00 > 520.00	3.700	3.707	-0.007	1.388	856273	0.7473		29.9	22175	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.500	783121	0.6592		26.4	9322	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.501	-0.011	1.684	653472	0.5302		21.2	4904	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 13-Jul-2018 16:17:44 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d

Injection Date: 13-Jul-2018 01:28:11 Instrument ID: A8_N

Lims ID: 460-159314-D-4-A Lab Sample ID: 320-159314-4

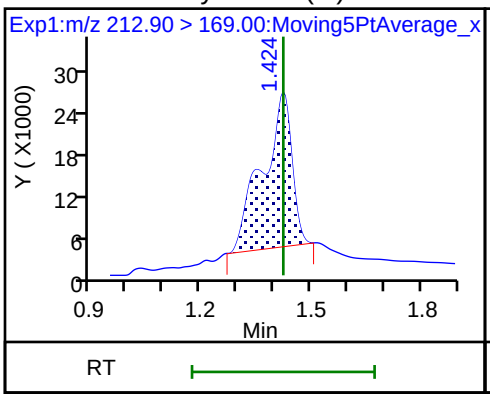
Client ID: PDI-MW-161-1-I-06262018

Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 12

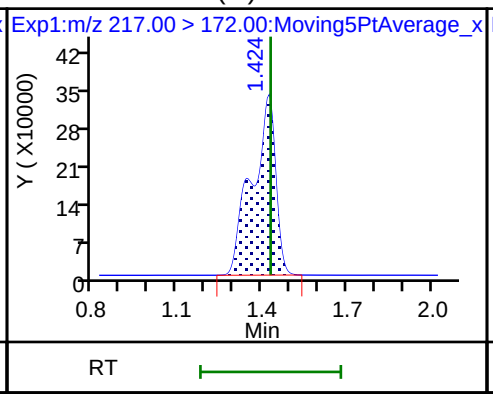
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

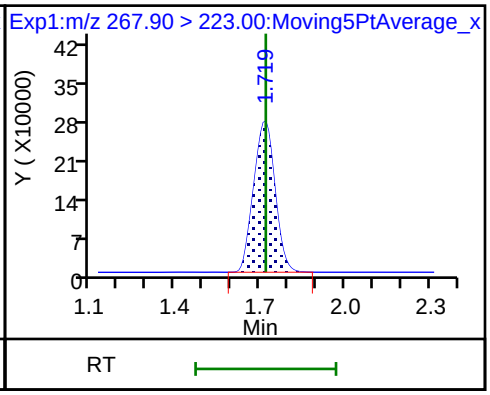
2 Perfluorobutyric acid (M)



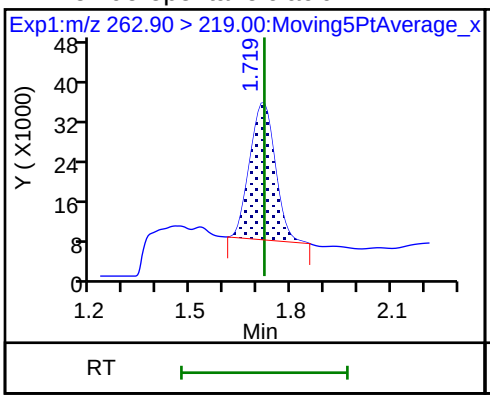
D 1 13C4 PFBA (M)



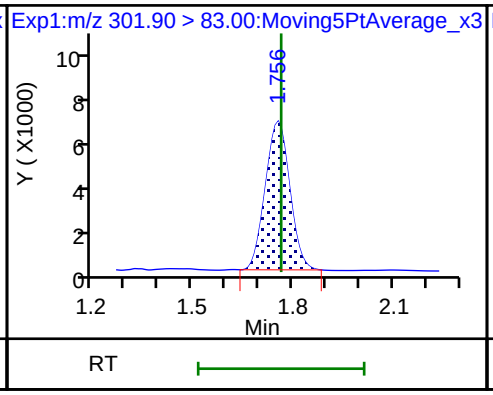
D 3 13C5-PFPeA



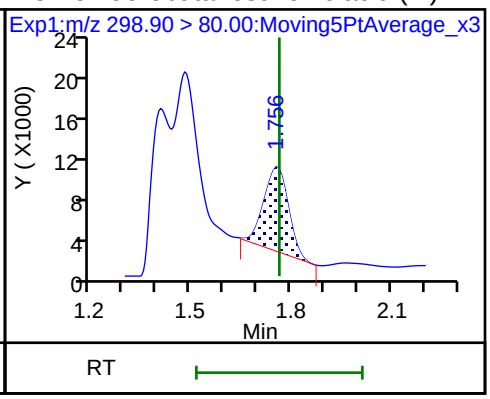
4 Perfluoropentanoic acid



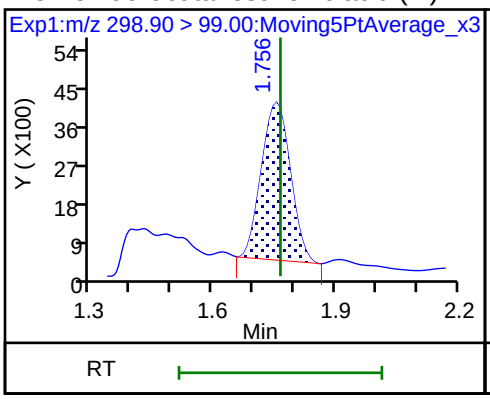
D 47 13C3-PFBS



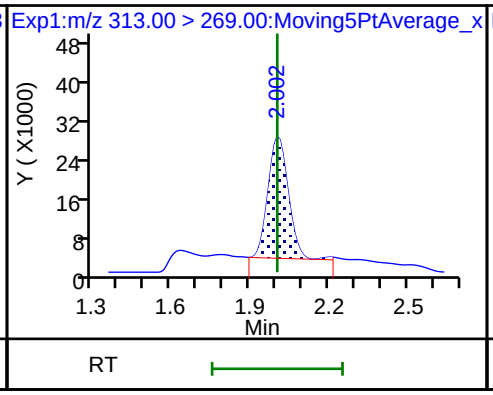
5 Perfluorobutanesulfonic acid (M)



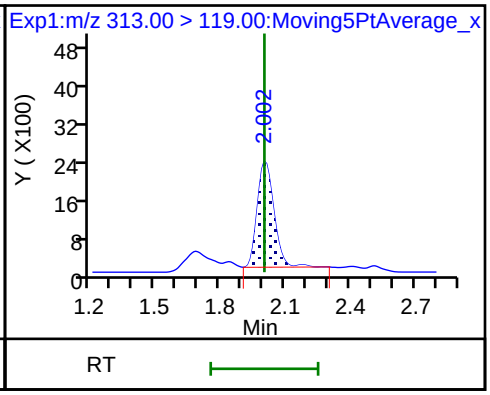
5 Perfluorobutanesulfonic acid (M)



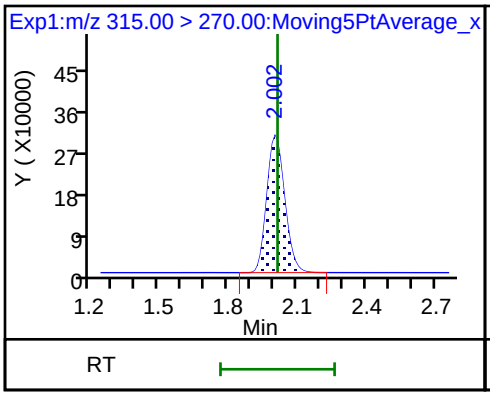
6 Perfluorohexanoic acid



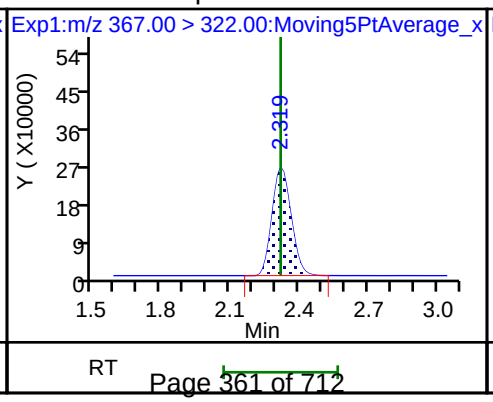
6 Perfluorohexanoic acid



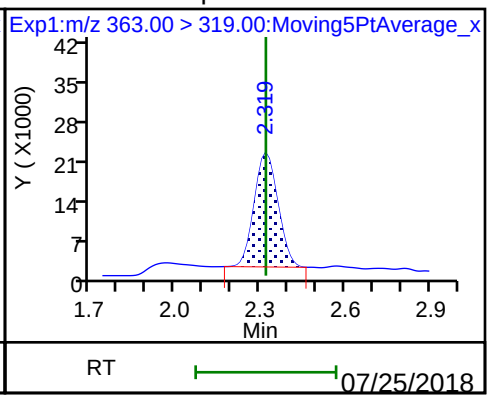
D 7 13C2 PFHxA



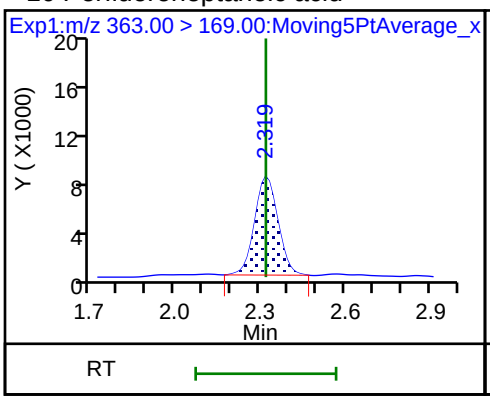
D 9 13C4-PFHpA



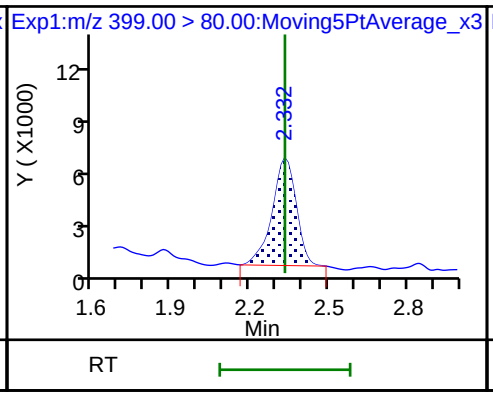
10 Perfluoroheptanoic acid



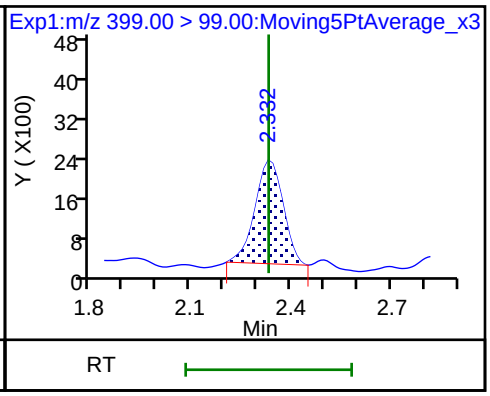
10 Perfluoroheptanoic acid



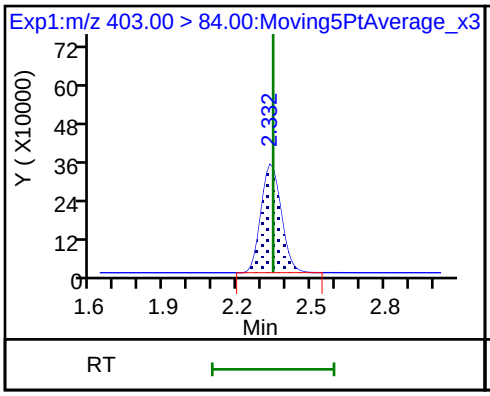
8 Perfluorohexanesulfonic acid



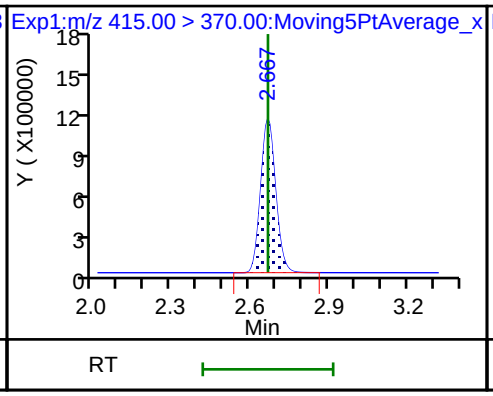
8 Perfluorohexanesulfonic acid



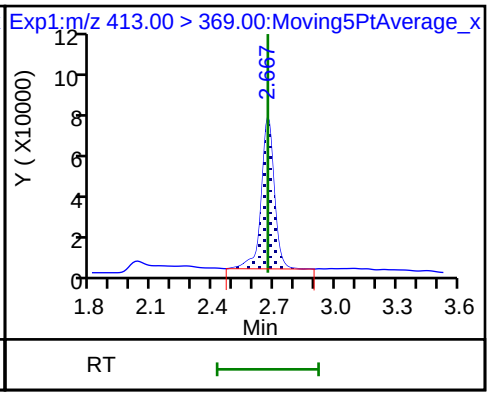
D 11 18O2 PFHxS



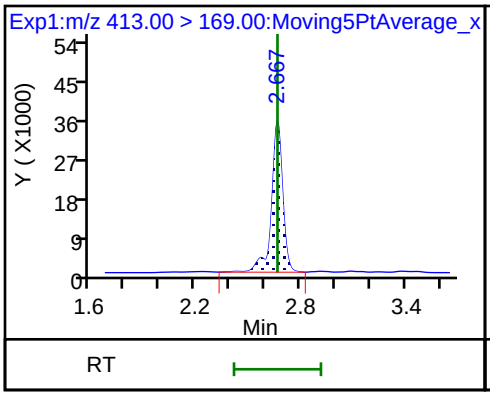
* 62 13C2-PFOA



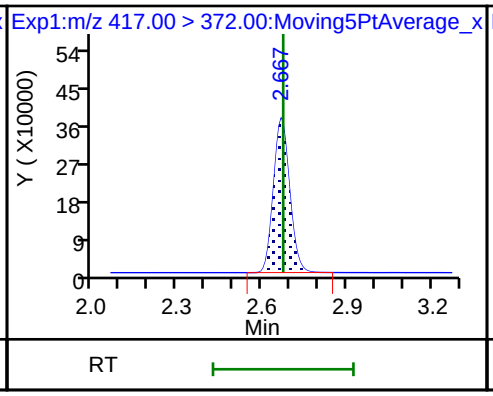
15 Perfluorooctanoic acid



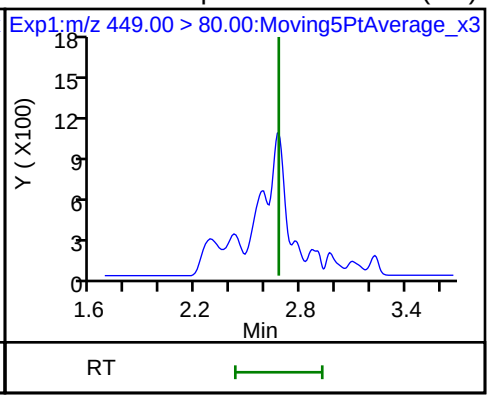
15 Perfluorooctanoic acid



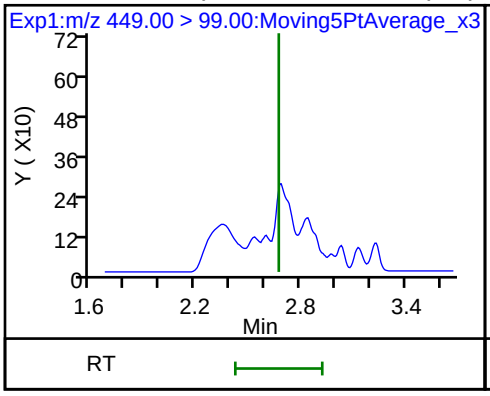
D 14 13C4 PFOA



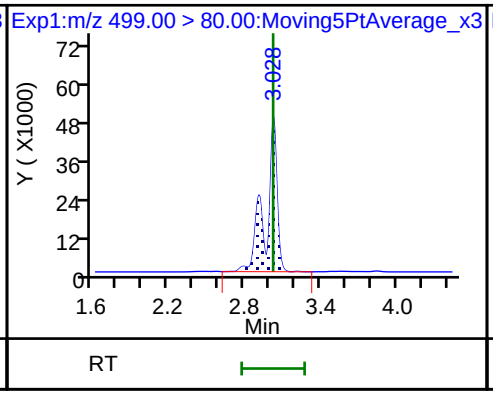
16 Perfluoroheptanesulfonic acid (ND)



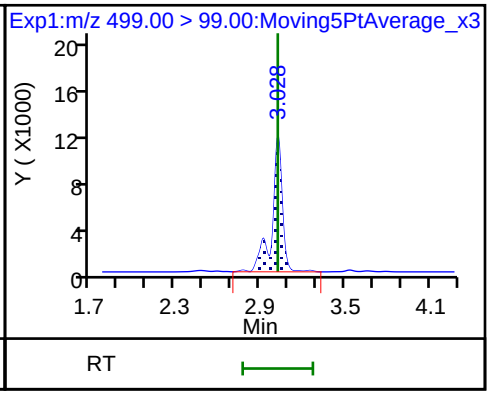
16 Perfluoroheptanesulfonic acid (ND)



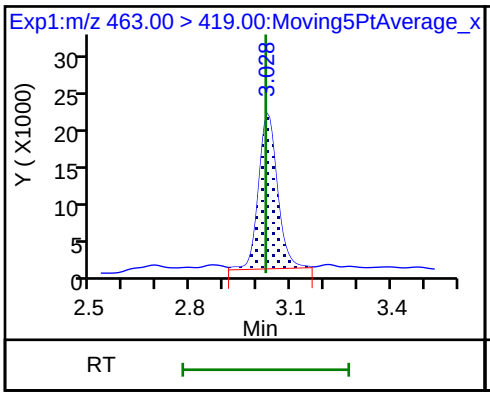
17 Perfluorooctane sulfonic acid



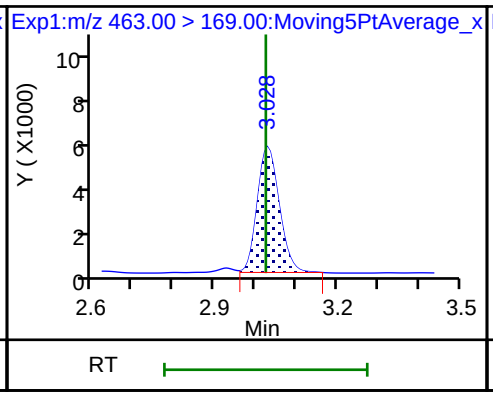
17 Perfluorooctane sulfonic acid



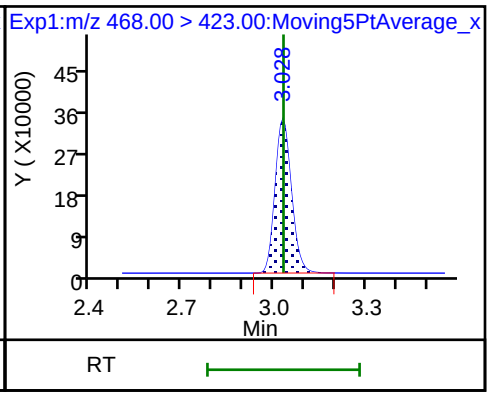
20 Perfluorononanoic acid



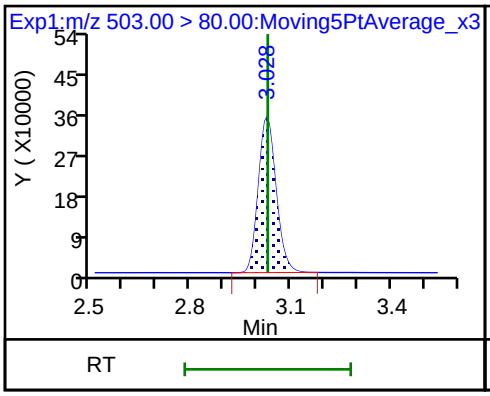
20 Perfluorononanoic acid



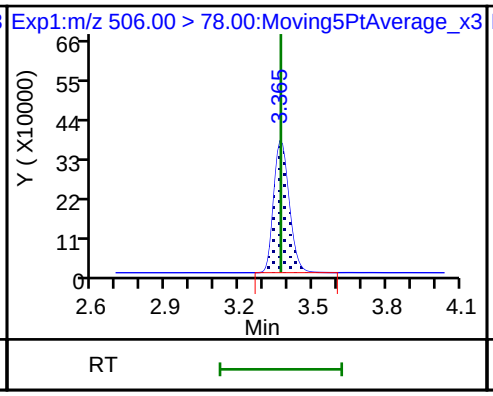
D 19 13C5 PFNA



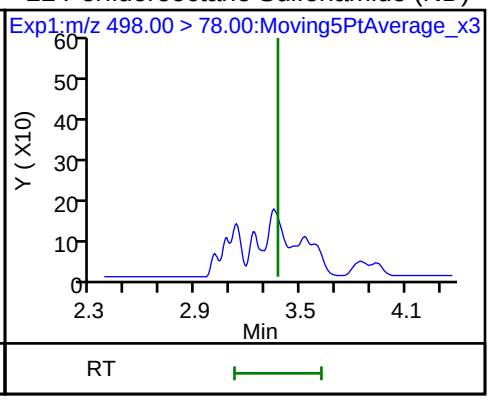
D 18 13C4 PFOS



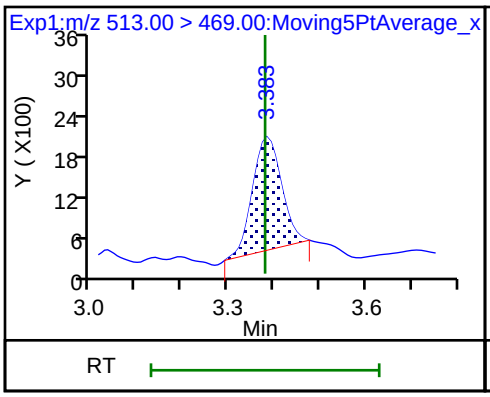
D 21 13C8 FOSA



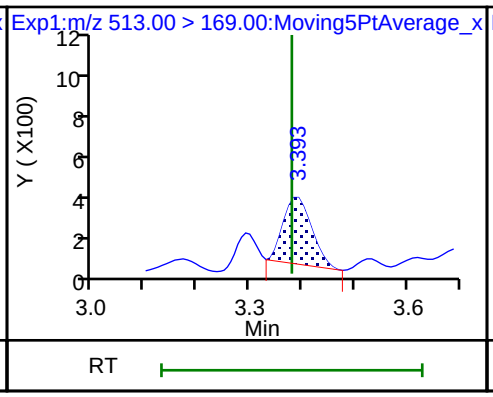
22 Perfluorooctane Sulfonamide (ND)



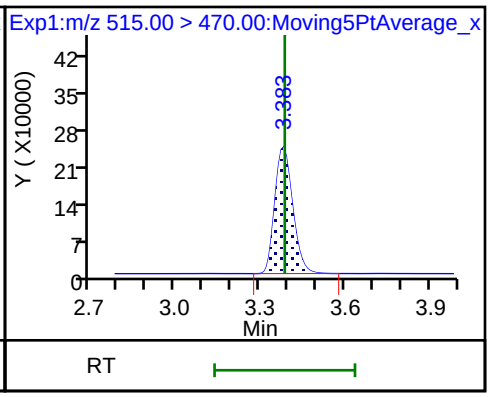
24 Perfluorodecanoic acid



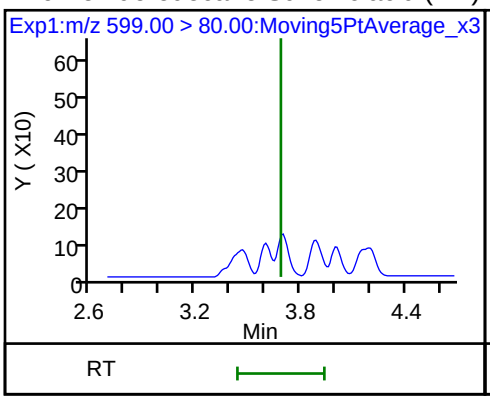
24 Perfluorodecanoic acid



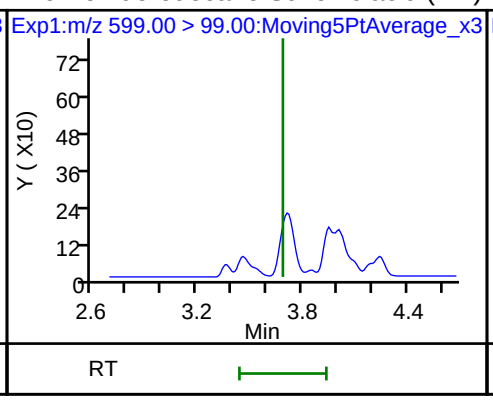
D 23 13C2 PFDA



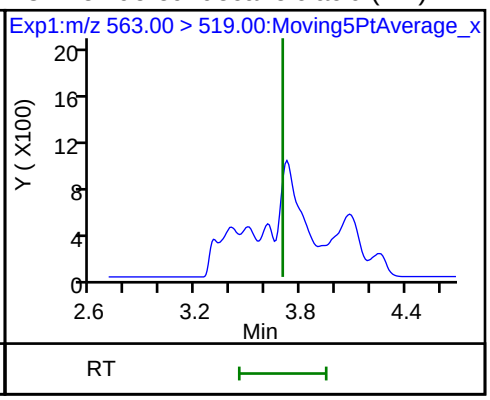
29 Perfluorodecane Sulfonic acid (ND)



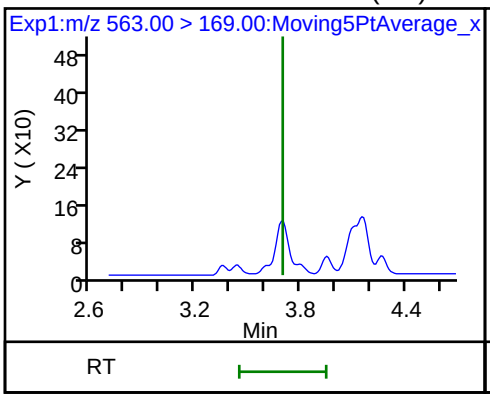
29 Perfluorodecane Sulfonic acid (ND)



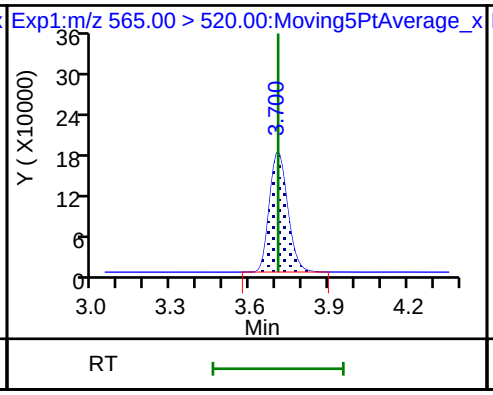
31 Perfluoroundecanoic acid (ND)



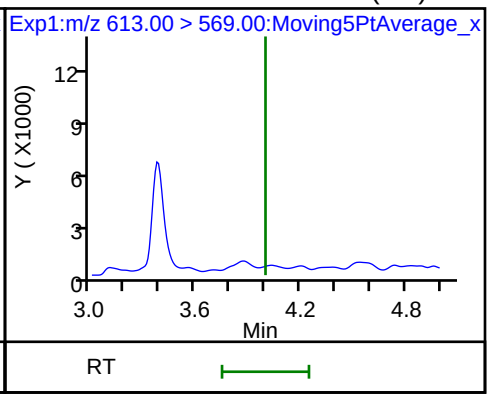
31 Perfluoroundecanoic acid (ND)



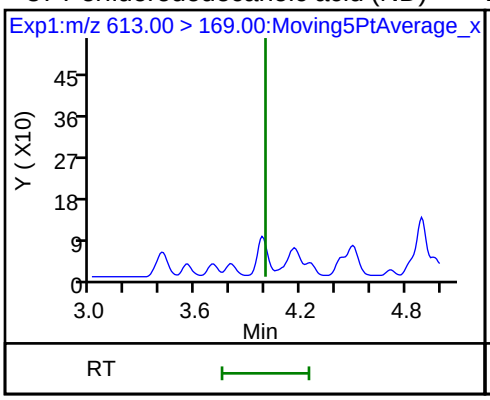
D 30 13C2 PFUnA



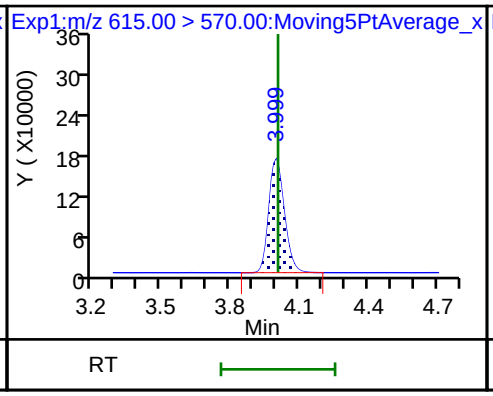
37 Perfluorododecanoic acid (ND)



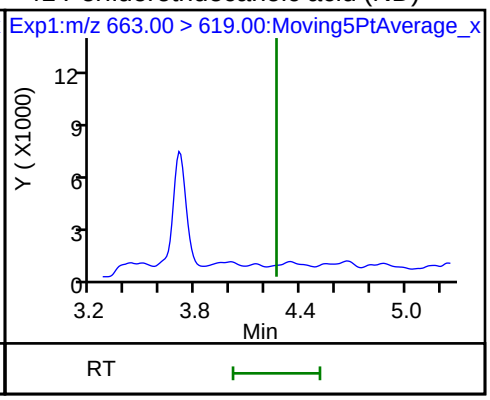
37 Perfluorododecanoic acid (ND)



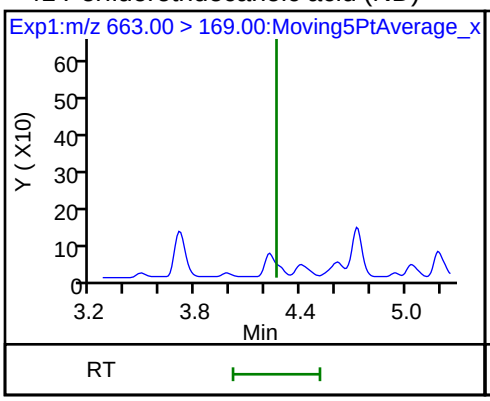
D 36 13C2 PFDoA



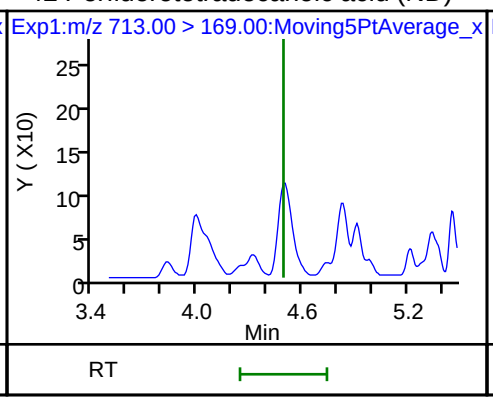
41 Perfluorotridecanoic acid (ND)



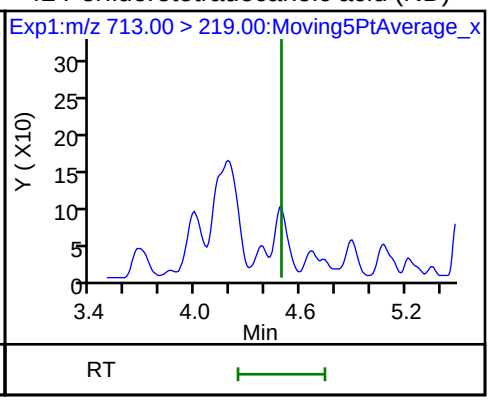
41 Perfluorotridecanoic acid (ND)



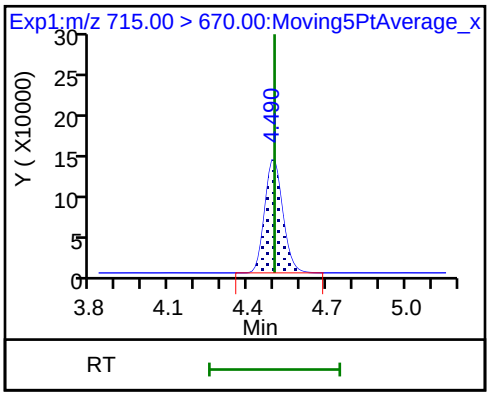
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

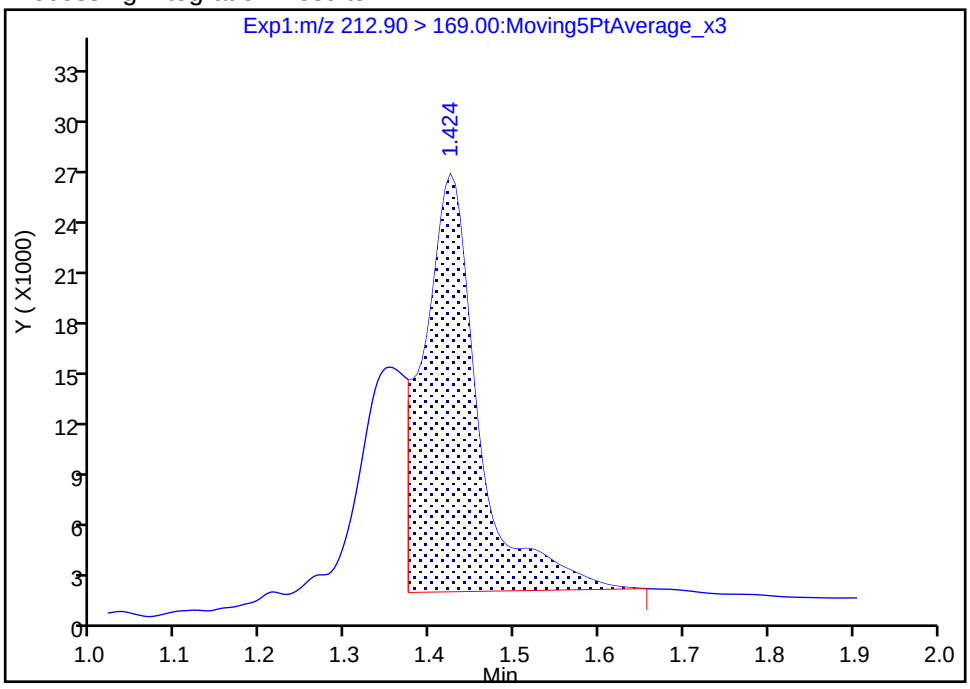
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

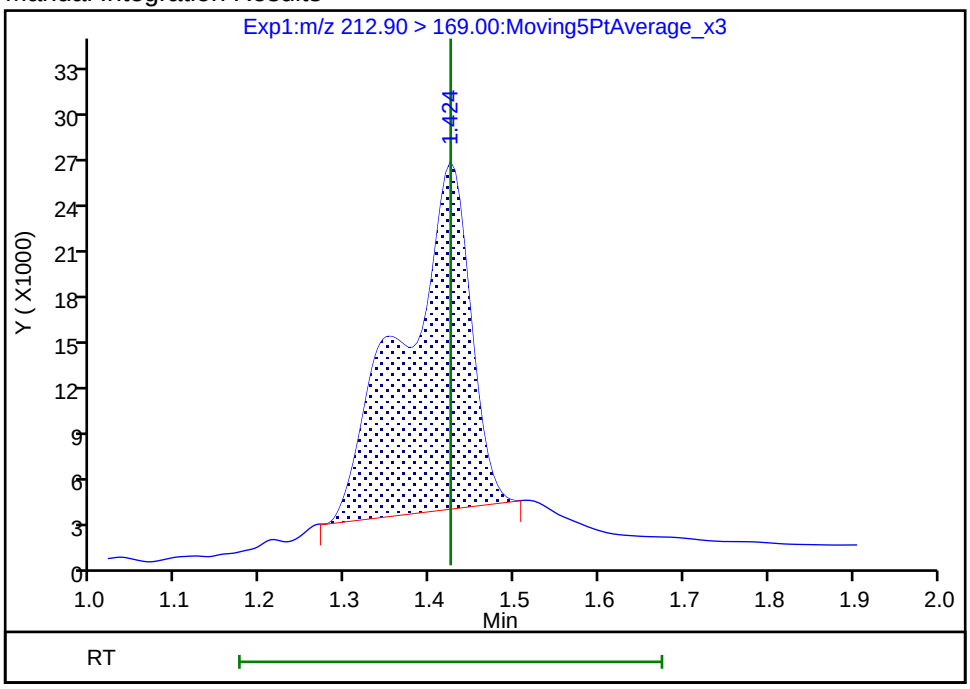
Processing Integration Results

RT: 1.42
Area: 108019
Amount: 0.139974
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 122856
Amount: 0.159200
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

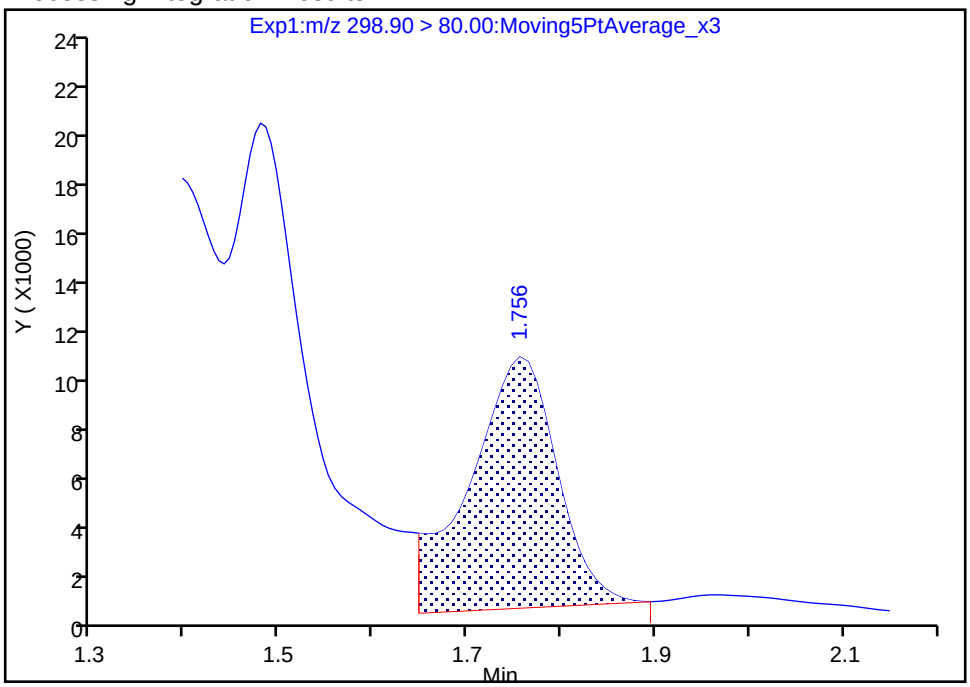
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

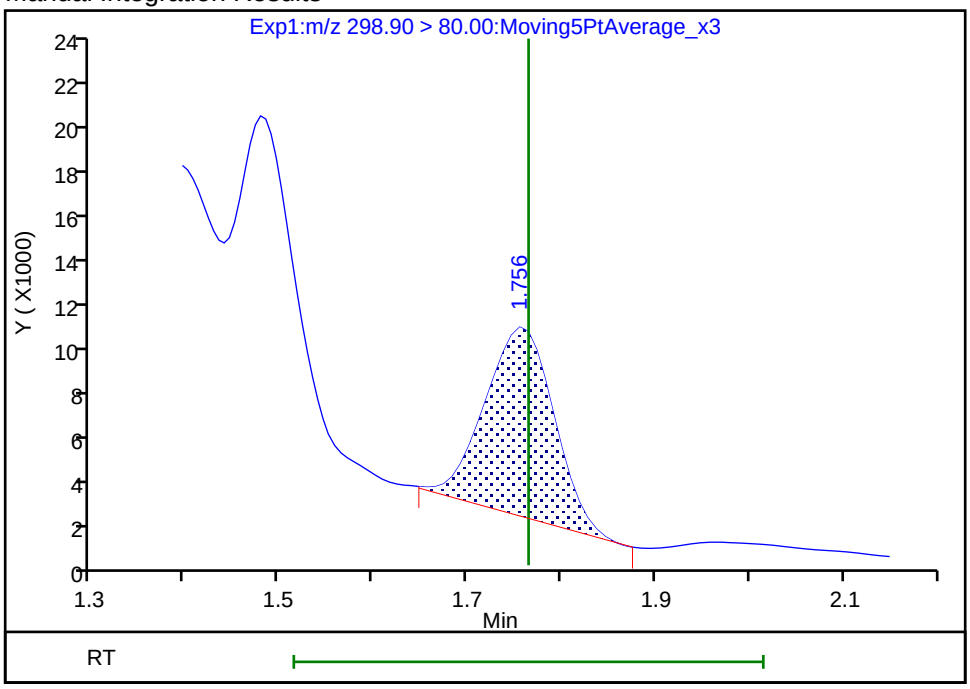
Processing Integration Results

RT: 1.76
Area: 63470
Amount: 0.059199
Amount Units: ng/ml



Manual Integration Results

RT: 1.76
Area: 41873
Amount: 0.039055
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

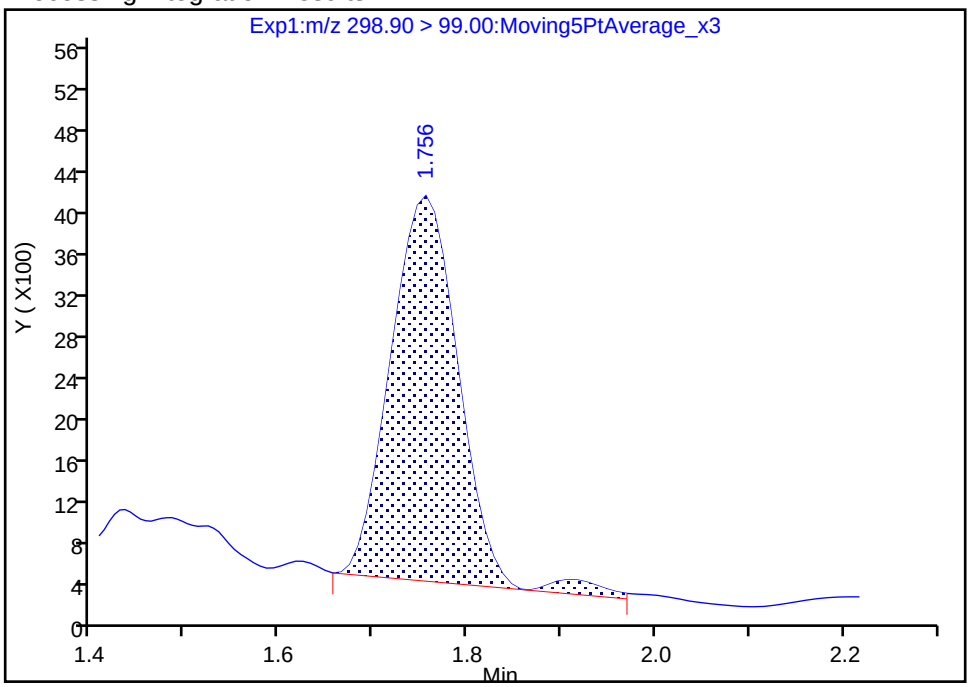
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

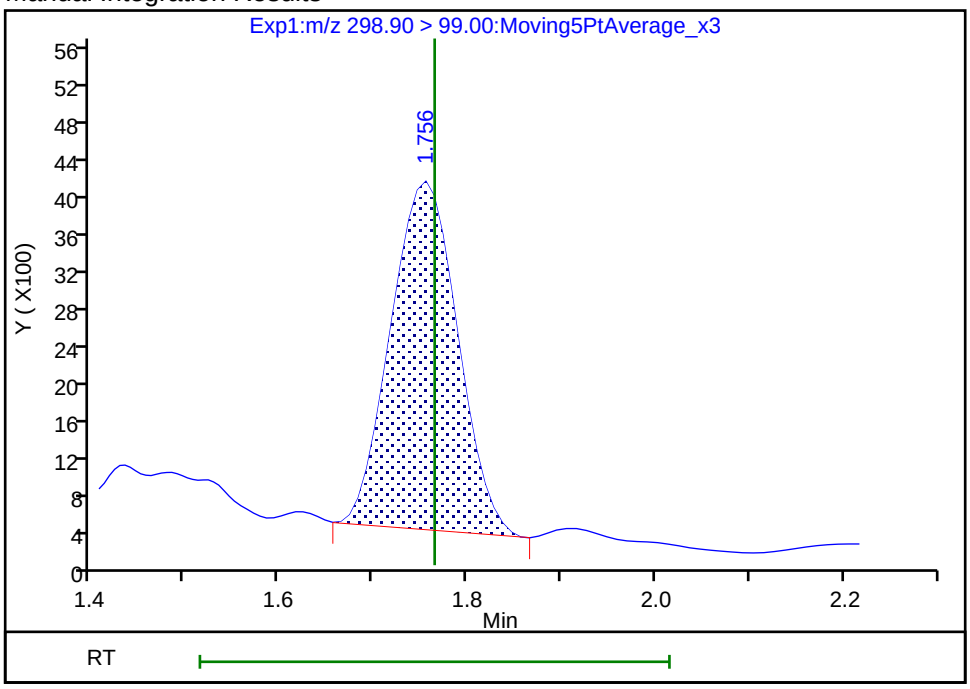
Processing Integration Results

RT: 1.76
Area: 18975
Amount: 0.059199
Amount Units: ng/ml



Manual Integration Results

RT: 1.76
Area: 18399
Amount: 0.039055
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

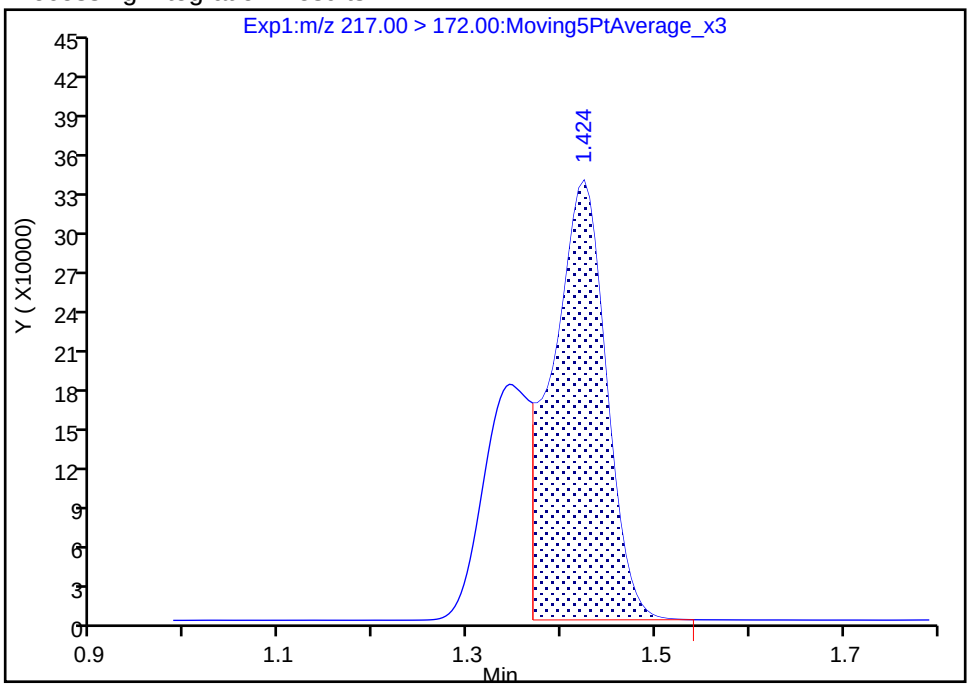
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d
Injection Date: 13-Jul-2018 01:28:11 Instrument ID: A8_N
Lims ID: 460-159314-D-4-A Lab Sample ID: 320-159314-4
Client ID: PDI-MW-161-1-I-06262018
Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

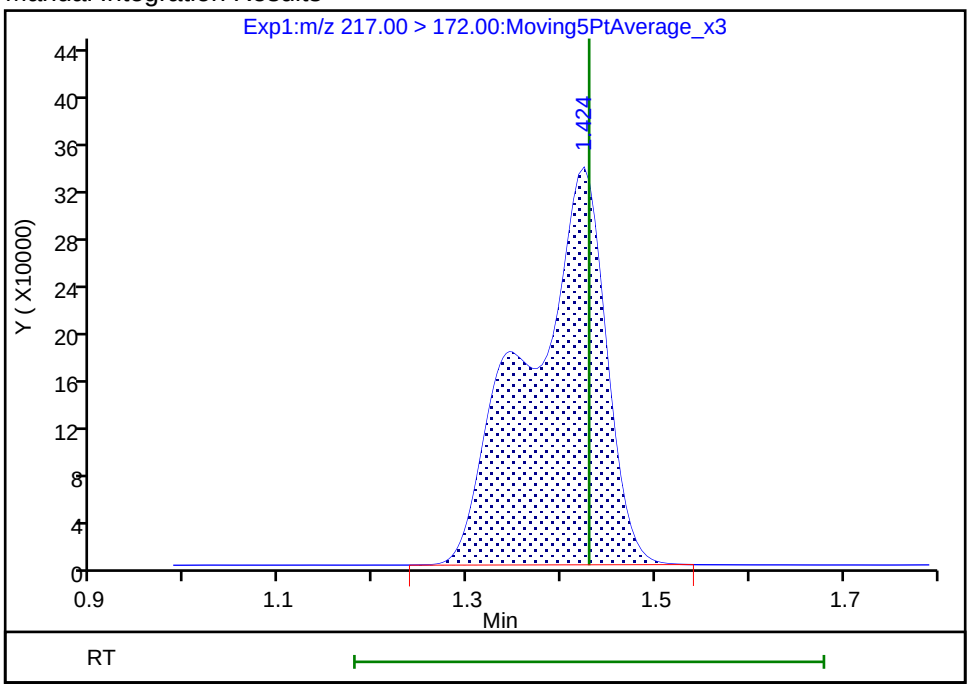
Processing Integration Results

RT: 1.42
Area: 1343197
Amount: 0.541702
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 1957504
Amount: 0.789447
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:16:48
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-232544/2	2018.07.05LLICALAA_002.d
Level 2	IC 320-232544/3	2018.07.05LLICALAA_003.d
Level 3	IC 320-232544/4	2018.07.05LLICALAA_004.d
Level 4	IC 320-232544/5	2018.07.05LLICALAA_005.d
Level 5	IC 320-232544/6	2018.07.05LLICALAA_006.d
Level 6	IC 320-232544/7	2018.07.05LLICALAA_007.d
Level 7	IC 320-232544/8	2018.07.05LLICALAA_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.1599 1.0003	1.0400 0.9742	0.9844	0.9784	1.0130	AveID		1.0214				6.4		35.0			
Perfluoropentanoic acid (PFPeA)	1.3494 1.1872	1.2423 1.1353	1.1293	1.1531	1.1396	AveID		1.1909				6.7		35.0			
Perfluorobutanesulfonic acid (PFBS)	75.947 76.688	75.791 69.580	76.843	76.844	78.936	AveID		75.804				3.9		50.0			
4:2 FTS	16.213 15.304	17.153 14.607	14.439	16.648	15.409	AveID		15.682				6.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.0840 1.0203	1.0591 0.9835	0.9513	1.0069	1.0226	AveID		1.0183				4.4		35.0			
Perfluoropentanesulfonic acid (PFPeS)	67.284 63.367	65.353 58.197	66.375	66.272	67.091	AveID		64.848				5.0		50.0			
HFPO-DA (GenX)	2.3057 2.6343	2.2554 2.0791	1.8716	2.5810	2.3656	AveID		2.2990				11.6		35.0			
Perfluoroheptanoic acid (PFHpA)	1.2104 1.1917	1.0279 1.0122	1.1900	1.0765	1.1995	AveID		1.1297				7.7		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3407 1.1365	1.2396 1.0973	1.1046	1.0785	1.0964	AveID		1.1562				8.4		35.0			
ADONA	3.6365 3.6048	3.7345 2.9552	3.7967	4.0875	4.1287	AveID		3.7063				10.5		50.0			
6:2 FTS	1.5354 1.5654	1.6674 1.5719	1.4840	1.5183	1.6234	AveID		1.5665				4.0		35.0			
Perfluorooctanoic acid (PFOA)	1.2192 1.2268	1.2620 1.1016	1.1156	1.2077	1.1675	AveID		1.1858				5.0		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.1926 1.3472	1.4478 1.3042	1.2807	1.3674	1.4360	AveID		1.3394				6.7		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.2121 1.1885	1.2202 1.1799	1.0639	1.1354	1.1768	AveID		1.1681				4.6		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	1.1213 1.1593	1.0185 1.0515	1.0090	1.0546	1.1292	AveID		1.0776				5.4		35.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate	1.8371 1.9273	1.9871 1.7749	1.7938	1.9428	1.9705	AveID		1.8905				4.6		50.0			
Perfluorooctane Sulfonamide (FOSA)	1.0066 0.9778	1.0130 0.9552	0.9944	0.9898	1.0050	AveID		0.9917				2.0		35.0			
Perfluorononanesulfonic acid (PFNS)	0.7702 0.8185	0.8839 0.8030	0.7867	0.8165	0.8096	AveID		0.8126				4.4		50.0			
8:2 FTS	1.4013 1.3609	1.2823 1.3569	1.3100	1.2085	1.3282	AveID		1.3212				4.8		35.0			
Perfluorodecanoic acid (PFDA)	1.0056 1.0566	1.0483 1.0584	1.0509	1.0079	1.0686	AveID		1.0423				2.4		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	1.0315 1.0175	1.1546 0.9800	0.9971	0.9903	1.0331	AveID		1.0292				5.7		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.7023 0.7669	0.7487 0.7270	0.6844	0.7024	0.7049	AveID		0.7195				4.1		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.9826 0.9329	0.9062 0.8580	0.8600	0.8349	0.9369	AveID		0.9017				5.9		35.0			
Perfluoroundecanoic acid (PFUnA)	1.0834 0.7976	0.8362 0.8400	0.7717	0.8162	0.8057	AveID		0.8501				12.4		35.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	2.8155 2.8075	3.0083 2.4752	2.8310	3.1108	3.1400	AveID		2.8841				7.9		50.0			
Perfluorododecanoic acid (PFDoA)	1.1617 1.1259	1.0302 1.0627	1.0854	1.0743	1.1736	AveID		1.1020				4.8		35.0			
Perfluorotridecanoic Acid (PFTriA)	1.3439 1.2254	1.2852 1.1348	1.2080	1.1963	1.1989	AveID		1.2275				5.5		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.3365 0.2566	0.2689 0.2676	0.2577	0.2506	0.2575	AveID		0.2708				11.0		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.8112 0.9369	1.3974 0.8947	1.0445	0.9647	1.0270	L2ID	0.0217	0.9499							0.9980		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	1.1905 1.1870	1.2284 1.0805	1.1317	1.1569	1.1735	AveID		1.1641				4.1		50.0			
13C4 PFBA	1.3432 1.4602	1.3377 1.4591	1.3336	1.3843	1.3715	Ave		1.3842				4.0		50.0			
13C5 PFPeA	0.9899 1.0617	0.9978 1.0424	1.0109	1.0339	1.0349	Ave		1.0245				2.5		50.0			
13C3-PFBS	0.0238 0.0262	0.0237 0.0254	0.0241	0.0241	0.0243	Ave		0.0245				3.8		50.0			
M2-4:2FTS	0.1576 0.1516	0.1585 0.1653	0.1586	0.1566	0.1546	Ave		0.1575				2.7		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFHxA	1.0920 1.1451	1.0620 1.1193	1.0765	1.0761	1.1051	Ave		1.0966				2.6		50.0			
13C3 HFPO-DA	0.0805 0.0882	0.0896 0.1033	0.1008	0.0788	0.0879	Ave		0.0899				10.3		50.0			
13C4-PFHpA	0.9648 0.9714	0.9738 1.0075	0.9299	1.0049	0.9620	Ave		0.9735				2.7		50.0			
18O2 PFHxS	1.2341 1.2017	1.2186 1.1483	1.1668	1.2212	1.1945	Ave		1.1979				2.6		50.0			
M2-6:2FTS	0.2274 0.2238	0.2173 0.2108	0.2151	0.2262	0.2095	Ave		0.2186				3.3		50.0			
13C4 PFOA	0.9520 0.9573	0.9525 0.9562	0.9559	0.9509	0.9525	Ave		0.9539				0.3		50.0			
13C4 PFOS	0.8583 0.8739	0.8228 0.8423	0.8886	0.8636	0.8361	Ave		0.8551				2.7		50.0			
13C5 PFNA	0.7879 0.8124	0.7968 0.8247	0.8395	0.8151	0.7999	Ave		0.8109				2.2		50.0			
13C8 FOSA	1.1690 1.2329	1.1769 1.1494	1.2007	1.2025	1.1777	Ave		1.1870				2.3		50.0			
M2-8:2FTS	0.2621 0.2334	0.2577 0.2218	0.2404	0.2505	0.2357	Ave		0.2431				5.9		50.0			
13C2 PFDA	0.7094 0.7121	0.7063 0.6634	0.7040	0.7208	0.6781	Ave		0.6992				2.9		50.0			
d3-NMeFOSAA	0.4168 0.4264	0.4023 0.4297	0.3985	0.4023	0.4078	Ave		0.4120				3.0		50.0			
d5-NEtFOSAA	0.4114 0.4009	0.4199 0.3876	0.4121	0.4353	0.3818	Ave		0.4070				4.6		50.0			
13C2 PFUnA	0.5948 0.5974	0.5971 0.5642	0.5918	0.5758	0.5904	Ave		0.5873				2.1		50.0			
13C2 PFDoA	0.6315 0.6216	0.6579 0.6276	0.6253	0.6378	0.6038	Ave		0.6294				2.6		50.0			
13C2-PFTeDA	0.8006 0.7947	0.7648 0.7332	0.7519	0.7678	0.7579	Ave		0.7673				3.1		50.0			
13C2-PFHxDA	1.4230 1.4676	1.4467 1.3521	1.3872	1.4716	1.3892	Ave		1.4196				3.2		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-232544/2	2018.07.05LLICALAA_002.d
Level 2	IC 320-232544/3	2018.07.05LLICALAA_003.d
Level 3	IC 320-232544/4	2018.07.05LLICALAA_004.d
Level 4	IC 320-232544/5	2018.07.05LLICALAA_005.d
Level 5	IC 320-232544/6	2018.07.05LLICALAA_006.d
Level 6	IC 320-232544/7	2018.07.05LLICALAA_007.d
Level 7	IC 320-232544/8	2018.07.05LLICALAA_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	67169 12195770	127400 24301343	597465	2411886	6019354	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	57590 10524768	113509 20231845	519574	2123200	5110087	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	68888 14809613	145614 26720886	743977	2913073	7339411	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	15538 3122682	34819 5926931	147699	666805	1513774	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	51033 9756155	103001 18820721	466101	1929591	4896489	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	64758 12984575	133231 23714616	681882	2665768	6619076	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	8000 1939946	18507 3672079	85883	362111	901097	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	50347 9666111	91664 17433793	503626	1926316	4999641	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	64911 10377680	125879 19602527	533777	2134265	5163686	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
ADONA		AveID	126753 24778537	265083 40084780	1446461	5921462	14088161	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	14268 2772705	31462 5371036	137712	579722	1396856	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	50090 9816387	110192 18026746	485826	2047028	4823268	0.0250 5.01	0.0501 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	42011 9359028	103856 17877757	493106	2001929	4951993	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	41621 8047965	85326 15767090	399282	1620324	3955854	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	38090 7864000	74314 14824538	385530	1530697	3913598	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate		AveID	63354 13107538	139553 23819619	676150	2784556	6652637	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctane Sulfonamide (FOSA)		AveID	50731 10065471	109173 18768991	543453	2119612	5128289	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	27359 5733386	63937 11100681	305446	1205401	2815426	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
8:2 FTS		AveID	15170 2540408	28993 4929744	137343	516484	1299370	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	30755 6282630	67800 12003817	336739	1293758	3139526	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	18536 3622994	42535 7199550	180847	709542	1825431	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	25052 5394731	54383 10090938	266826	1041333	2461548	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	17427 3122896	34849 5685758	161316	647181	1549739	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroundecanoic acid (PFUnA)		AveID	27781 3978902	45721 8101412	207861	836804	2060853	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate		AveID	98137 19298262	213537 33573732	1078557	4506577	10714579	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	31624 5843687	62069 11402368	308907	1220093	3070255	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	36584 6359926	77431 12175469	343817	1358716	3136503	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	11614 1703041	18829 3354737	88194	342607	845500	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	111116 11482097	185133 20680874	659470	2527986	6181291	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	73036 14547117	162737 24976341	714501	3031740	7063441	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	5790999 6096226	6125232 6236338	6069593	6162858	5942375	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	4267857 4432781	4568616 4455207	4600846	4603081	4484079	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	95425 101582	101062 101003	101856	99704	97817	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	634689 591212	677914 659919	674185	650969	625570	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4708005 4780842	4862877 4784020	4899406	4790767	4788239	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PFOA	Ave	346971 368208	410277 441540	458876	350748	380912	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4-PFHpA	13PF OA	Ave	4159575 4055763	4459007 4305905	4232132	4473611	4168061	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5033013 4746316	5278239 4642819	5023662	5143052	4895856	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PF OA	Ave	931220 887494	945420 856056	929925	956602	862284	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	4104235 3996804	4361265 4086844	4350463	4233363	4126992	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3537401 3487989	3601856 3441443	3866373	3675491	3463003	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	3396934 3391733	3648217 3524695	3821005	3628571	3465887	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	5039791 5147225	5388753 4912326	5465004	5353484	5102615	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2FTS	13PF OA	Ave	1082564 933375	1130537 908289	1048384	1068438	978302	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3058439 2973033	3233809 2835454	3204267	3209160	2937890	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1796921 1780322	1841966 1836553	1813682	1791176	1766929	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	1773515 1673669	1922718 1656649	1875737	1938000	1654181	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	2564177 2494182	2733892 2411181	2693673	2563234	2557898	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	2722317 2595125	3012454 2682397	2846137	2839357	2616078	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	3451656 3317852	3501728 3133566	3422283	3418156	3283601	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	6135017 6127474	6624124 5779000	6313503	6551380	6019047	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2018 08:51:23 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:46 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:08:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.432	0.004	0.535	5790999	2.43		97.0	23614	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.436	1.434	0.002	1.000	67169	0.0284		114	24.4	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.721	1.716	0.005	0.642	4267857	2.42		96.6	39016	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.721	1.719	0.002	1.000	57590	0.0283		113	41.9	M
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.756	0.001	0.655	95425	2.26		97.1	748	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.766	1.760	0.006	1.005	68888	0.0221		100	396	
298.90 > 99.00	1.766	1.760	0.006	1.005	30581		2.25(1.25-3.74)	100	344	
D 60 M2-4:2FTS										
329.00 > 81.00	1.971	1.966	0.005	0.735	634689	2.34		100	7120	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.971	1.966	0.005	1.122	15538	0.0241		103	910	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	2.000	0.004	0.747	4708005	2.49		99.6	65107	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.004	2.002	0.002	1.000	51033	0.0266		106	90.7	M
313.00 > 119.00	2.004	2.002	0.002	1.000	5299		9.63(5.03-15.10)	106	83.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.025	0.002	1.154	64758	0.0243		104	920	
349.00 > 99.00	2.027	2.025	0.002	1.154	20151		3.21(1.36-4.07)	104	408	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.781	346971	2.24		89.6	5602	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.106	2.099	0.007	1.005	8000	0.0251		100	42.0	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.318	0.003	1.000	50347	0.0268		107	69.1	
363.00 > 169.00	2.321	2.318	0.003	1.000	19861		2.53(1.13-3.40)	107	202	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.318	0.003	0.865	4159575	2.48		99.1	30792	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.331	0.003	1.000	64911	0.0264		116	536	
399.00 > 99.00	2.334	2.331	0.003	1.000	21059		3.08(1.50-4.49)	116	183	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.870	5033013	2.44		103	35786	
65 Adona										
377.00 > 251.00	2.372	2.365	0.007	0.780	126753	0.0231		98.1	1593	
377.00 > 85.00	2.372	2.365	0.007	0.780	78260		1.62(0.84-2.53)	98.1	1744	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.652	2.645	0.007	1.000	14268	0.0232		98.0	142	
D 12 M2-6:2FTS										
429.00 > 81.00	2.652	2.645	0.007	0.989	931220	2.47		104	14182	
D 14 13C4 PFOA										
417.00 > 372.00	2.675	2.670	0.005	0.997	4104235	2.50		99.8	45143	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.675	2.671	0.004	1.000	50090	0.0257		103	18.1	M
413.00 > 169.00	2.682	2.671	0.011	1.003	32967		1.52(0.84-2.52)	103	172	M
* 62 13C2-PFOA										
415.00 > 370.00	2.682	2.671	0.011		4311203	2.50			37209	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.690	2.678	0.012	0.884	42011	0.0212		89.0	629	
449.00 > 99.00	2.682	2.678	0.004	0.882	12466		3.37(1.94-5.82)	89.0	316	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.042	3.034	0.008	1.000	41621	0.0241		104	489	
499.00 > 99.00	3.042	3.034	0.008	1.000	9995		4.16(2.31-6.93)	104	208	M
D 19 13C5 PFNA										
468.00 > 423.00	3.042	3.034	0.008	1.134	3396934	2.43		97.2	51934	
D 18 13C4 PFOS										
503.00 > 80.00	3.042	3.034	0.008	1.134	3537401	2.40		100	30670	
20 Perfluorononanoic acid										
463.00 > 419.00	3.049	3.036	0.013	1.002	38090	0.0260		104	62.6	
463.00 > 169.00	3.049	3.036	0.013	1.002	8921		4.27(1.90-5.69)	104	407	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.257	3.246	0.011	1.070	63354	0.0226		97.2	1484	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.251	5039791	2.46		98.5	42779	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	50731	0.0254		102	1053	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.385	3.379	0.006	1.113	27359	0.0227		94.8	418	
549.00 > 99.00	3.385	3.379	0.006	1.113	11830		2.31(1.33-3.97)	94.8	547	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.394	3.382	0.012	1.265	1082564	2.58		108	16251	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.394	3.383	0.011	1.000	15170	0.0254		106	474	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.403	3.393	0.010	1.000	30755	0.0241		96.5	105	
513.00 > 169.00	3.403	3.393	0.010	1.000	5952		5.17(2.36-7.09)	96.5	266	
D 23 13C2 PFDA										
515.00 > 470.00	3.403	3.393	0.010	1.269	3058439	2.54		101	46004	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.553	3.543	0.010	1.324	1796921	2.53		101	22850	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.562	3.551	0.011	1.003	18536	0.0251		100	162	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.715	3.702	0.013	1.221	25052	0.0235		97.6	492	
599.00 > 99.00	3.715	3.702	0.013	1.221	9802		2.56(1.39-4.16)	97.6	337	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.726	3.713	0.013	1.389	1773515	2.53		101	9054	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.726	3.721	0.005	0.997	27781	0.0319		127	87.1	
563.00 > 169.00	3.736	3.721	0.015	1.000	5787		4.80(2.12-6.36)	127	238	
33 N-ethyl perfluorooctane sulfonamid										M
584.00 > 419.00	3.736	3.721	0.015	1.003	17427	0.0272		109	369	M
D 30 13C2 PFUnA										
565.00 > 520.00	3.736	3.721	0.015	1.393	2564177	2.53		101	29168	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.892	3.879	0.013	1.279	98137	0.0230		97.6	1614	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.025	4.016	0.009	1.000	31624	0.0264		105	35.1	M
613.00 > 169.00	4.035	4.016	0.019	1.003	7882		4.01(2.13-6.40)	105	153	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.025	4.016	0.009	1.501	2722317	2.51		100	12948	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.296	4.284	0.012	1.067	36584	0.0274		109	38.0	
663.00 > 169.00	4.296	4.284	0.012	1.067	12165		3.01(1.25-3.76)	109	229	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.539	4.524	0.015	1.692	3451656	2.61		104	14975	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.539	4.524	0.015	1.000	11614	0.0311		124	203	
713.00 > 219.00	4.529	4.524	0.005	0.998	7249		1.60(0.71-2.13)	124	190	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.954	4.940	0.014	1.847	6135017	2.51		100	12974	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.954	4.941	0.013	1.000	111116	0.0248		99.2	48.8	
813.00 > 169.00	4.954	4.941	0.013	1.000	18876		5.89(2.86-8.58)	99.2	178	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.319	5.302	0.017	1.074	73036	0.0256		102	25.0	
913.00 > 169.00	5.319	5.302	0.017	1.074	9580		7.62(3.83-11.48)	102	138	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00006 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:47 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d

Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N

Lims ID: IC L1 Full

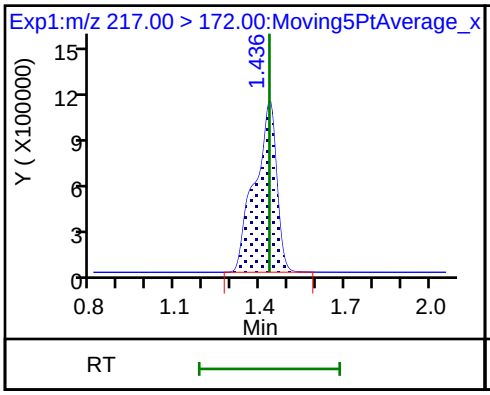
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

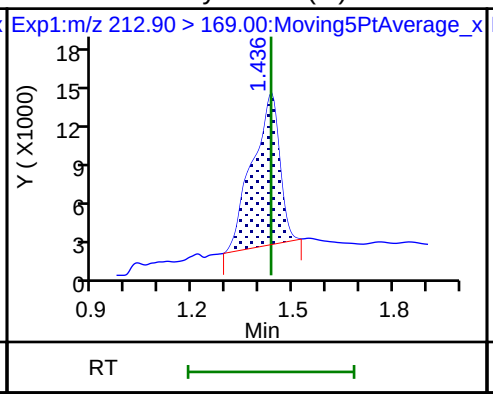
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

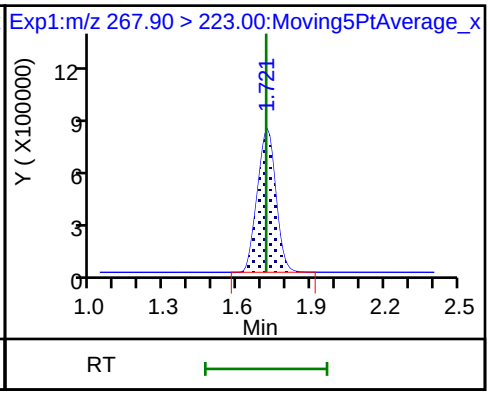
D 1 13C4 PFBA



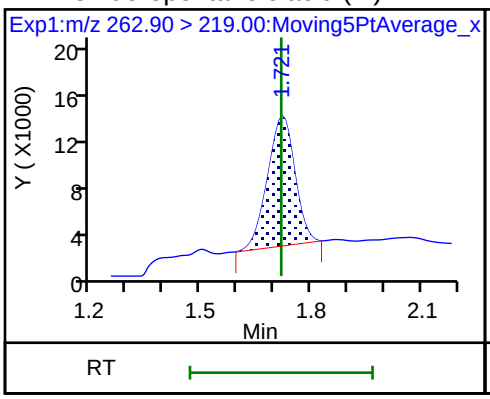
2 Perfluorobutyric acid (M)



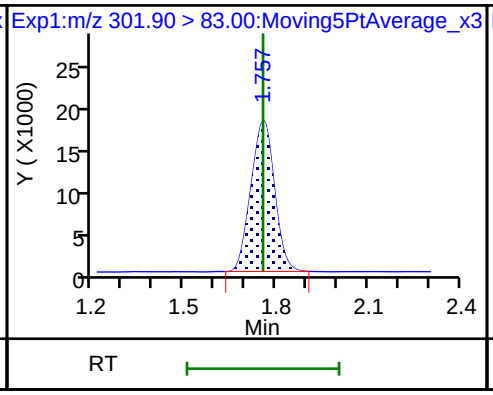
D 3 13C5-PFPeA



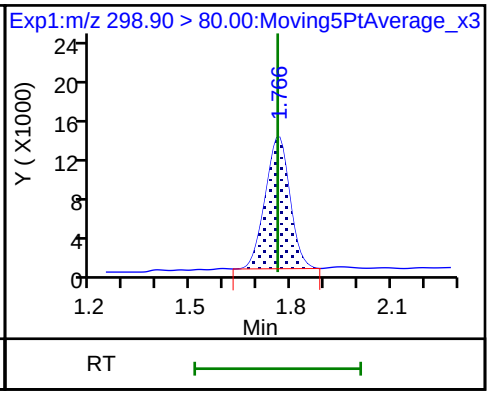
4 Perfluoropentanoic acid (M)



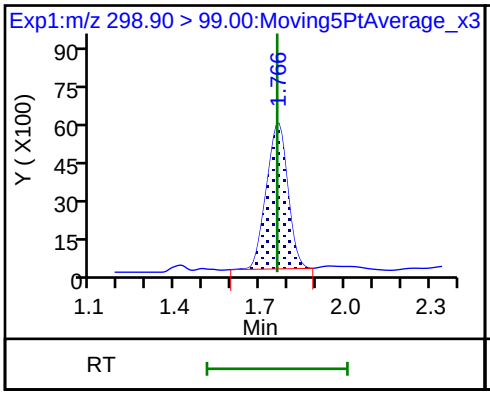
D 47 13C3-PFBS



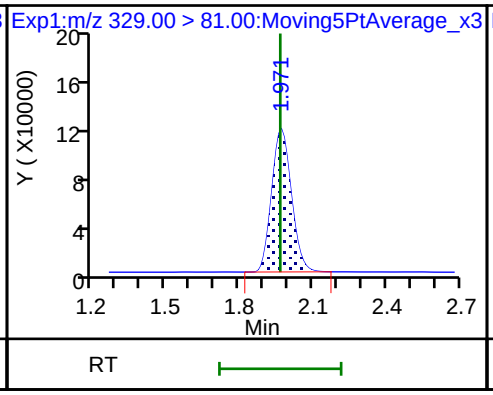
5 Perfluorobutanesulfonic acid



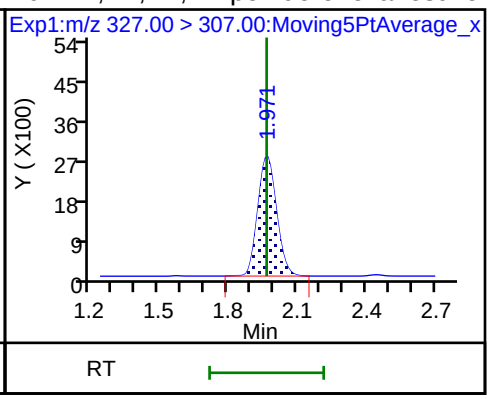
5 Perfluorobutanesulfonic acid



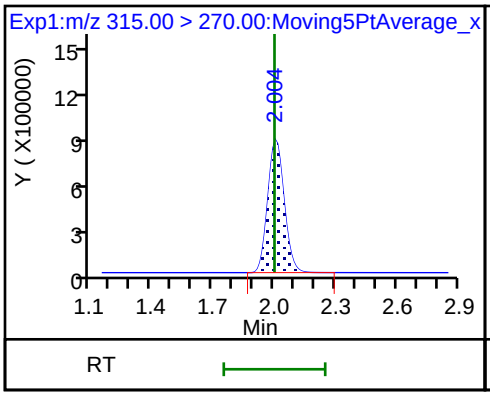
D 60 M2-4:2FTS



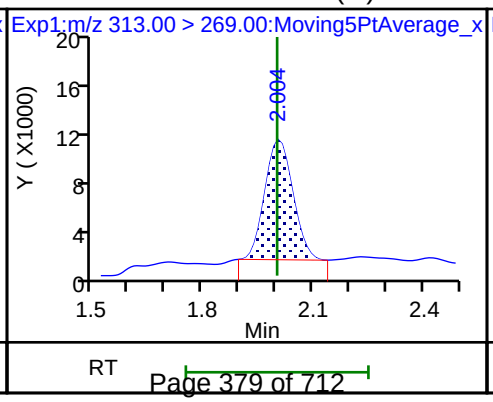
61 1H,1H,2H,2H-perfluorohexanesulfoni



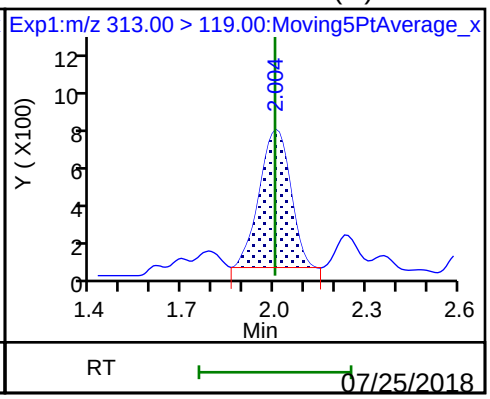
D 7 13C2 PFHxA



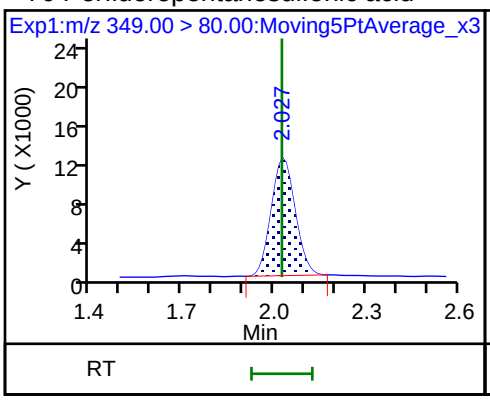
6 Perfluorohexanoic acid (M)



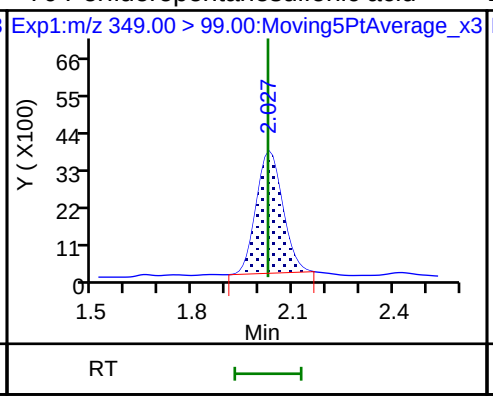
6 Perfluorohexanoic acid (M)



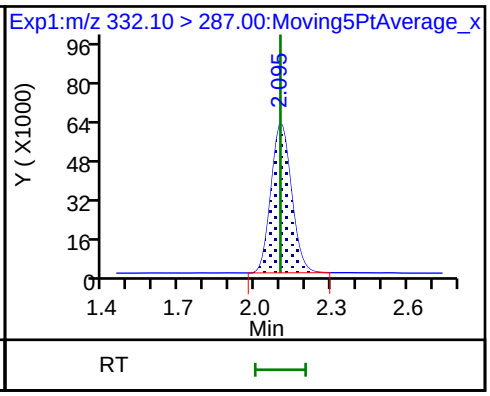
70 Perfluoropentanesulfonic acid



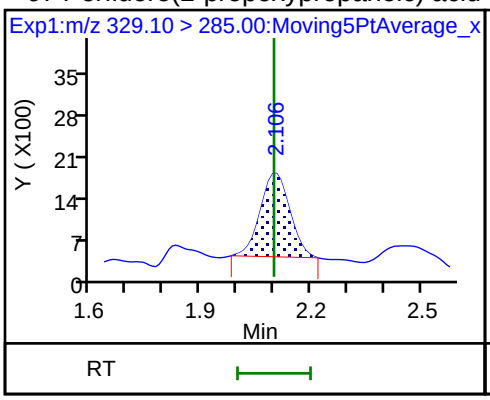
70 Perfluoropentanesulfonic acid



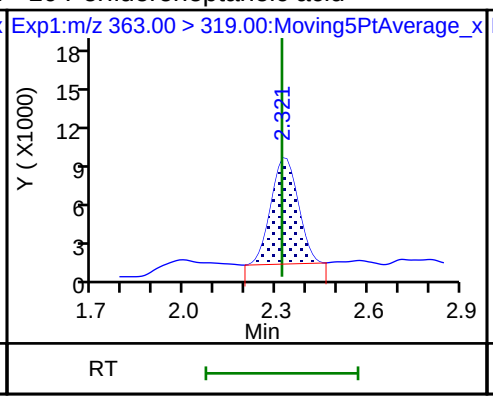
D 64 13C3 HFPO-DA



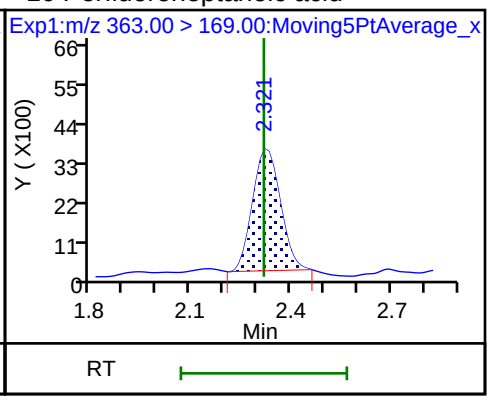
67 Perfluoro(2-propoxypropanoic) acid



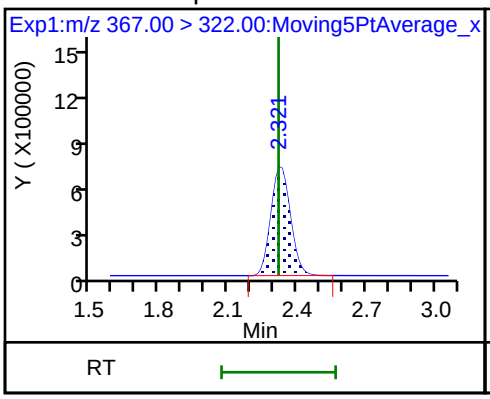
10 Perfluoroheptanoic acid



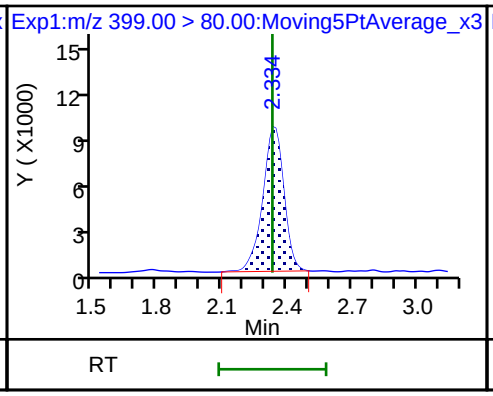
10 Perfluoroheptanoic acid



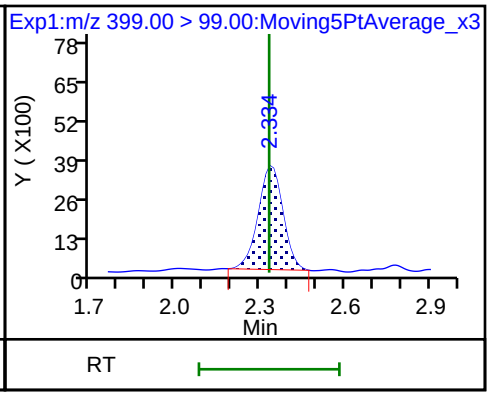
D 9 13C4-PFHpA



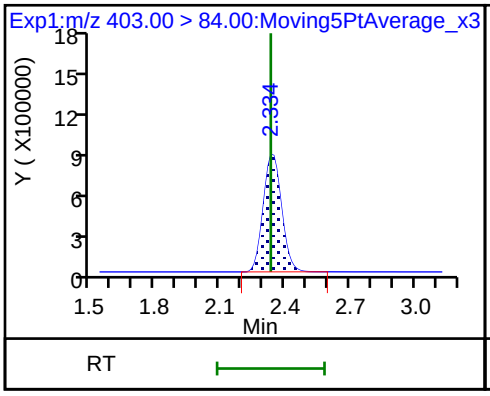
8 Perfluorohexanesulfonic acid



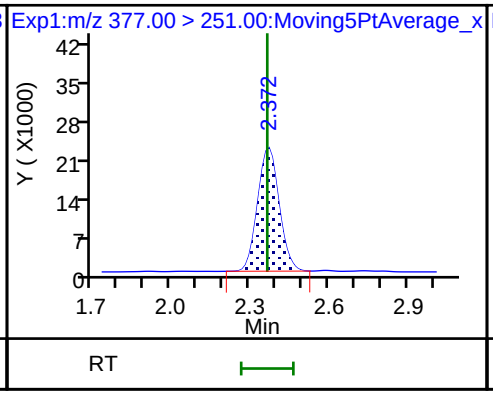
8 Perfluorohexanesulfonic acid



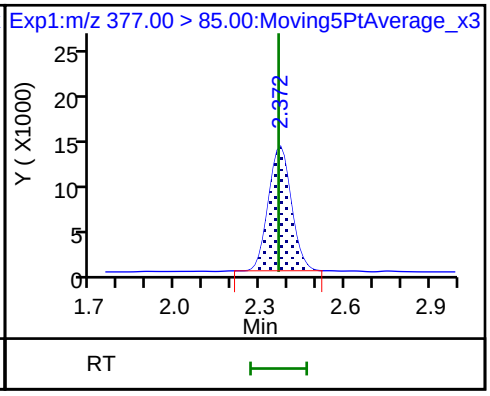
D 11 18O2 PFHxS



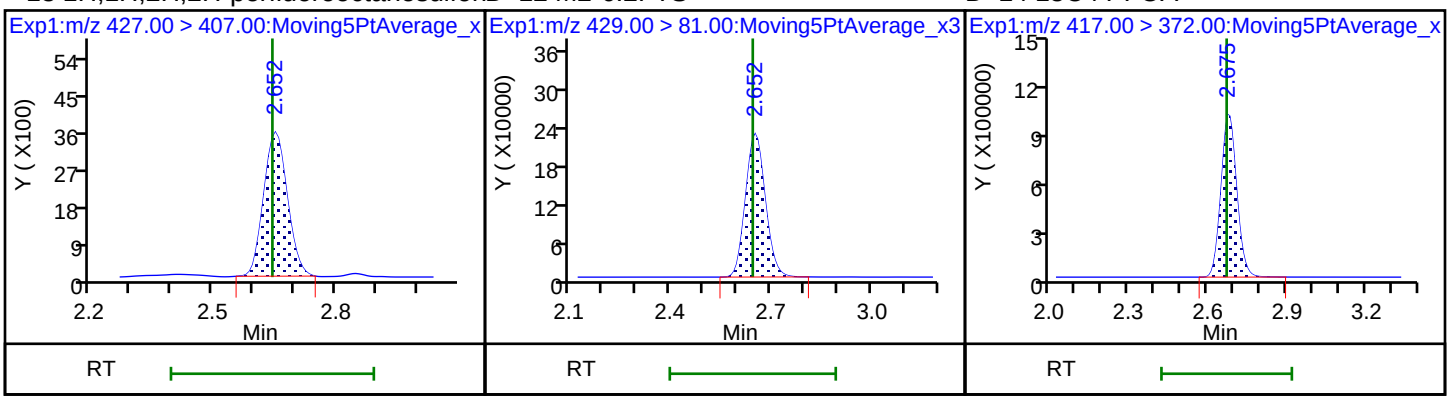
65 Adona



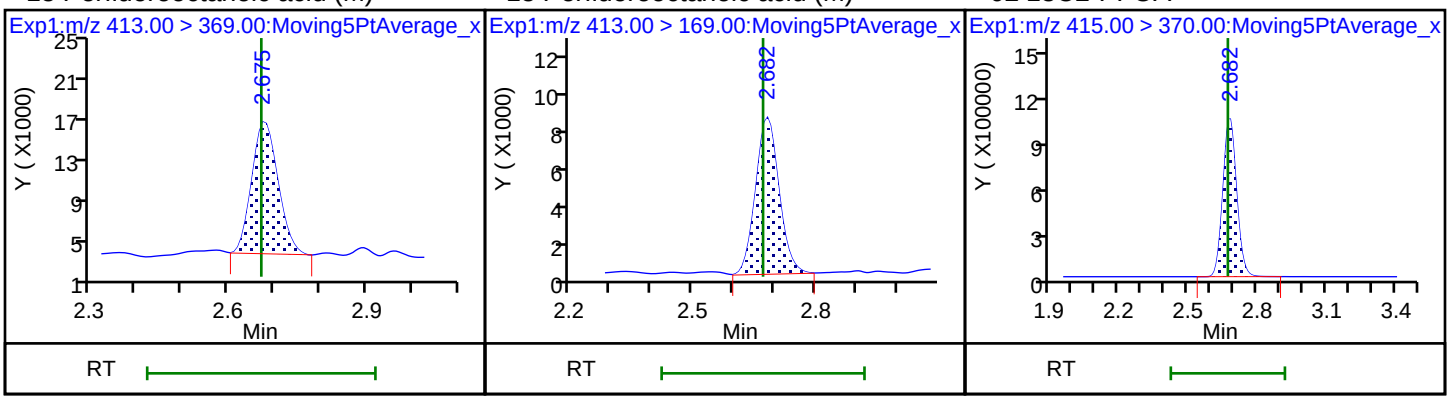
65 Adona



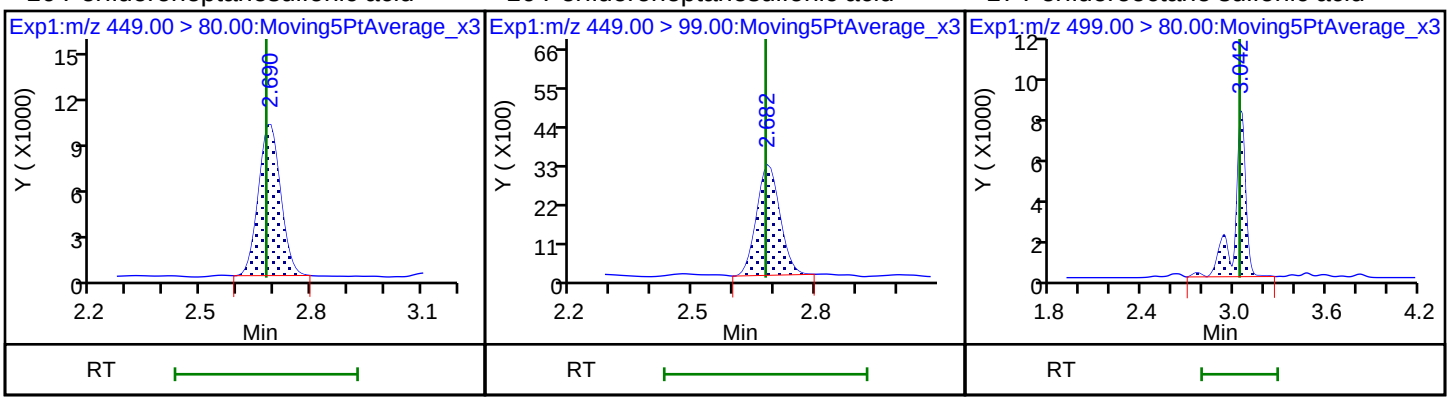
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



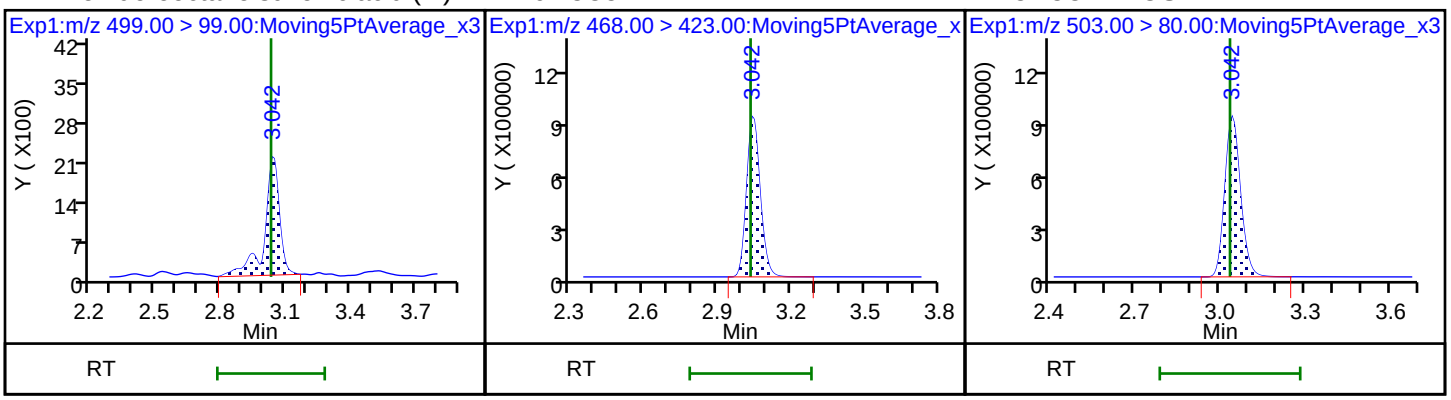
15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) * 62 13C2-PFOA



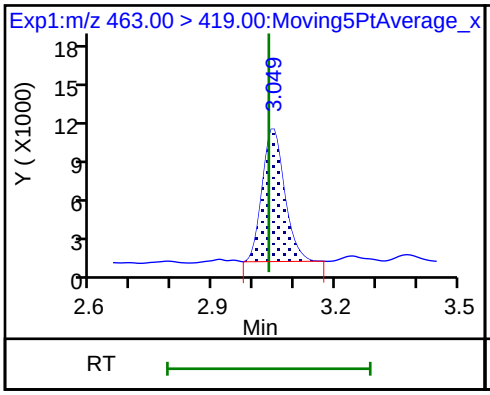
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



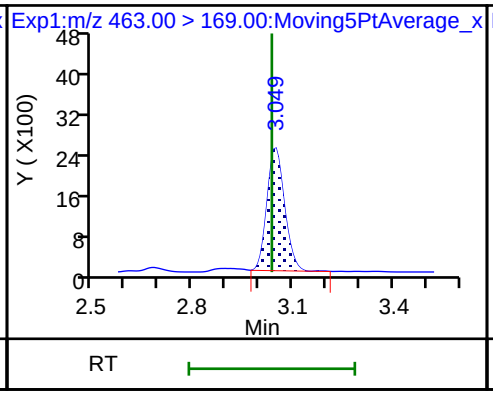
17 Perfluorooctane sulfonic acid (M) D 19 13C5 PFNA D 18 13C4 PFOS



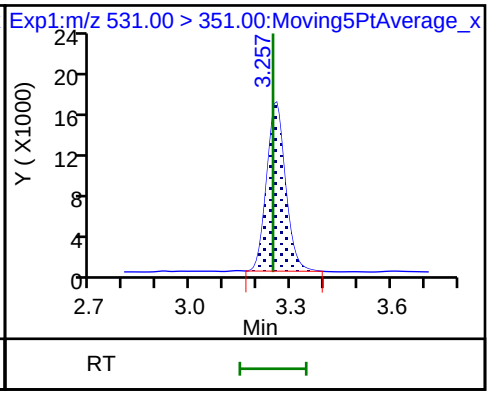
20 Perfluorononanoic acid



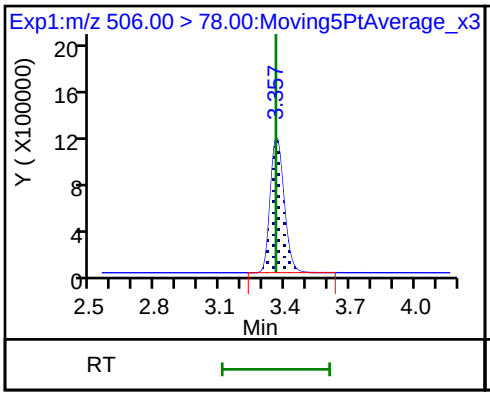
20 Perfluorononanoic acid



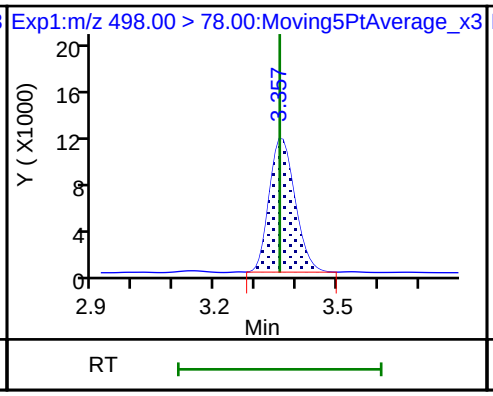
69 9-Chlorohexadecafluoro-3-oxanonane



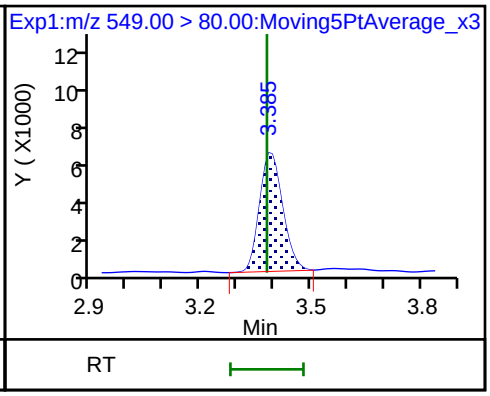
D 21 13C8 FOSA



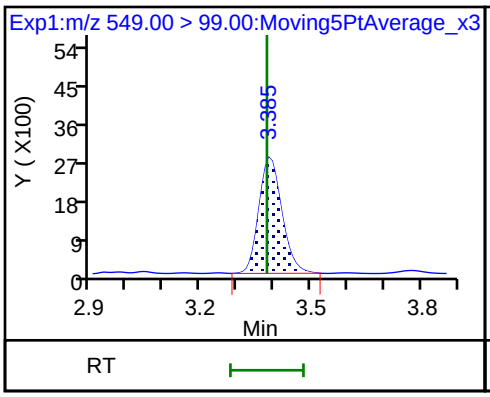
22 Perfluorooctane Sulfonamide



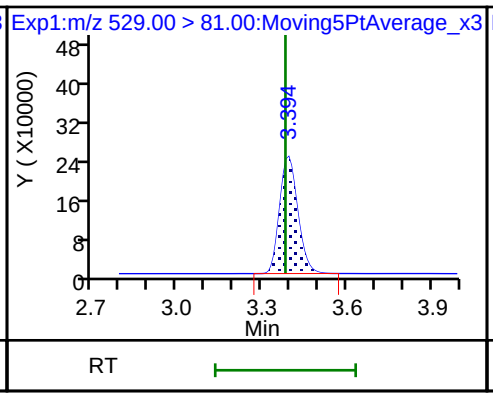
68 Perfluorononanesulfonic acid



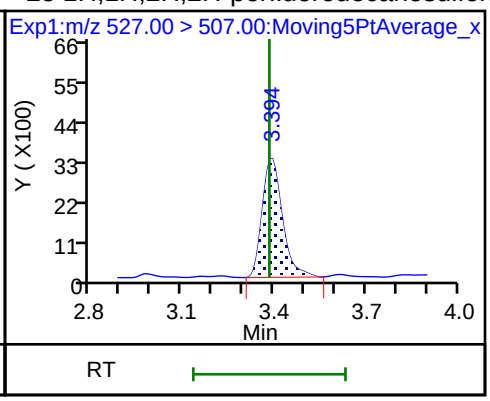
68 Perfluorononanesulfonic acid



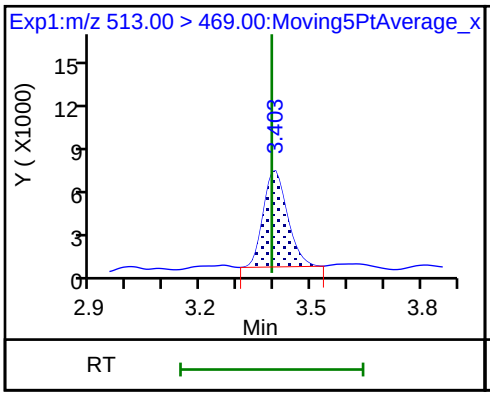
D 26 M2-8:2FTS



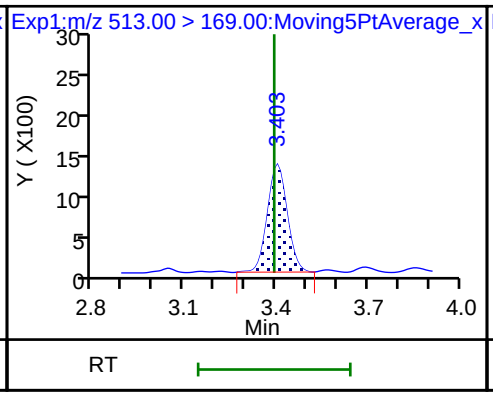
25 1H,1H,2H,2H-perfluorodecanesulfoni



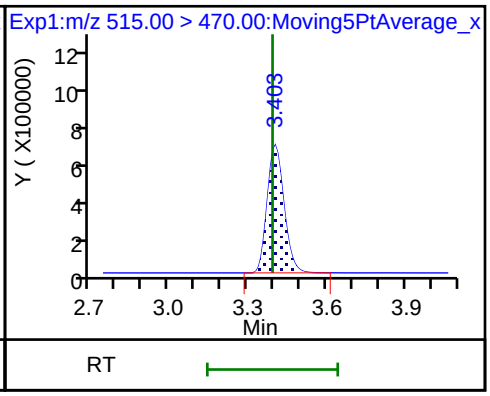
24 Perfluorodecanoic acid



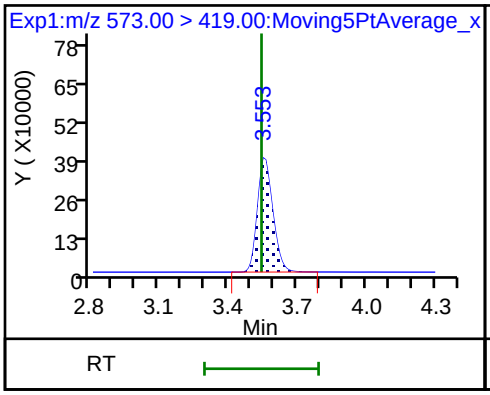
24 Perfluorodecanoic acid



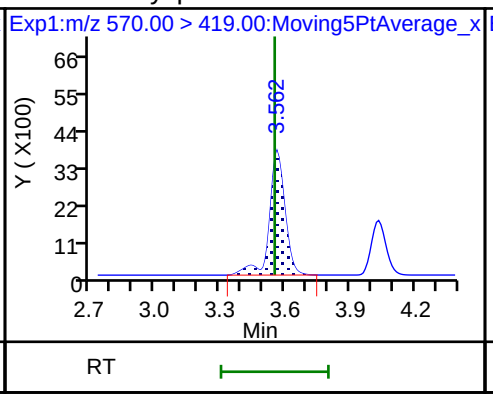
D 23 13C2 PFDA



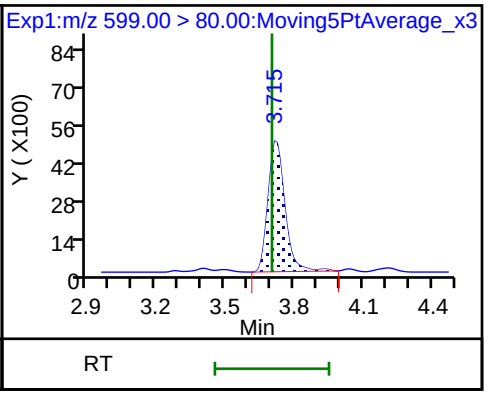
D 27 d3-NMeFOSAA



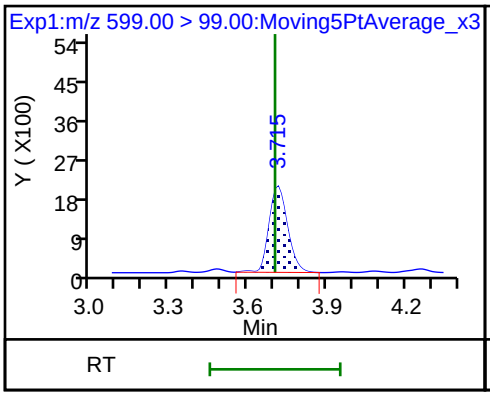
28 N-methyl perfluorooctane sulfonami



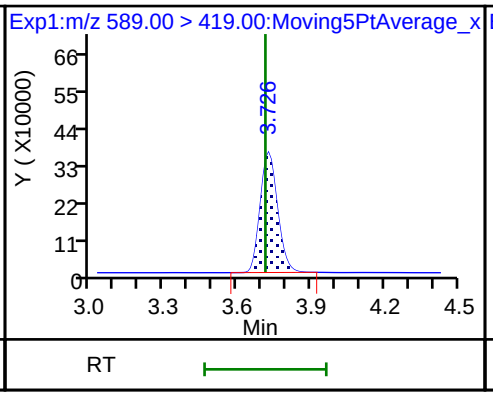
29 Perfluorodecane Sulfonic acid



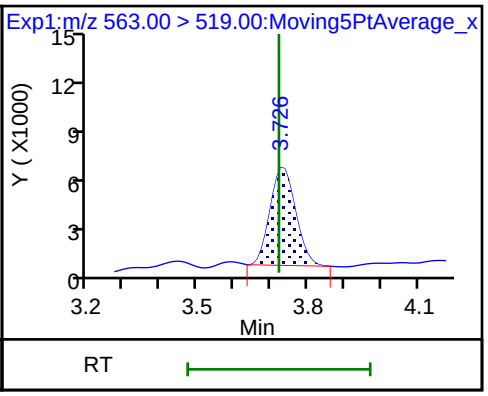
29 Perfluorodecane Sulfonic acid



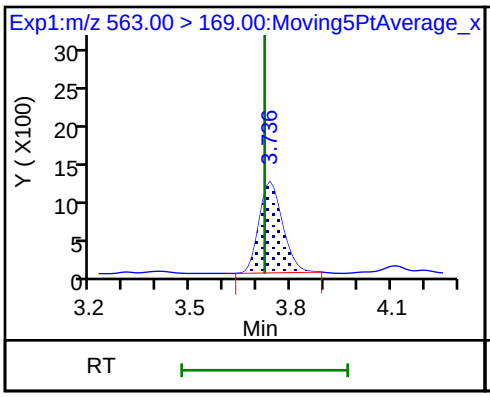
D 32 d5-NEtFOSAA



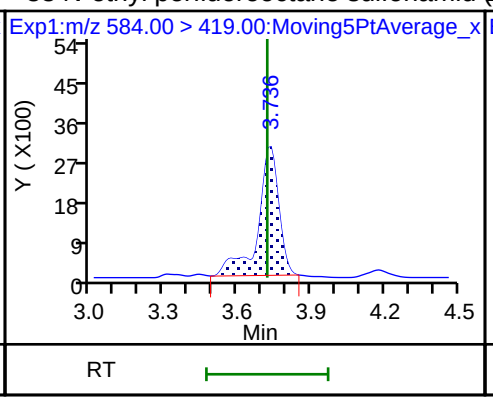
31 Perfluoroundecanoic acid



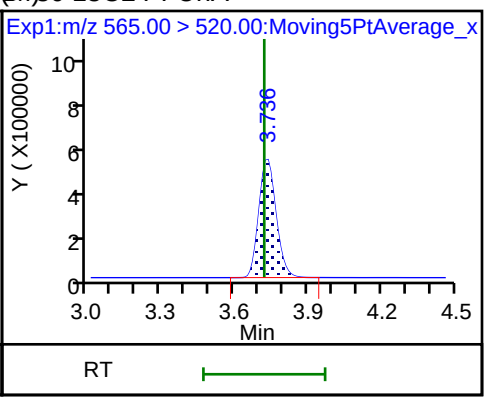
31 Perfluoroundecanoic acid



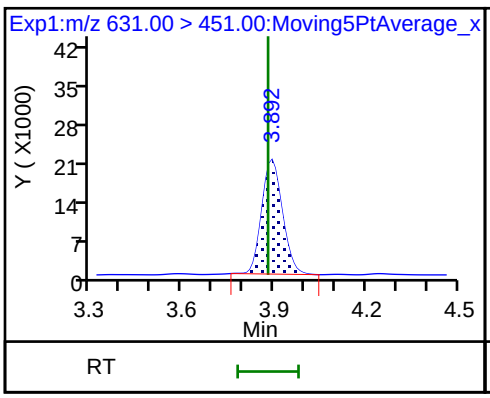
33 N-ethyl perfluorooctane sulfonamid



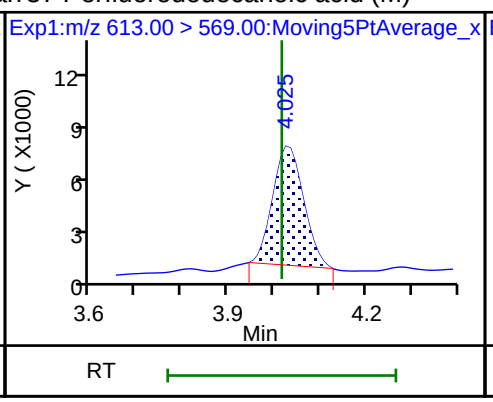
(M) 30 13C2 PFUnA



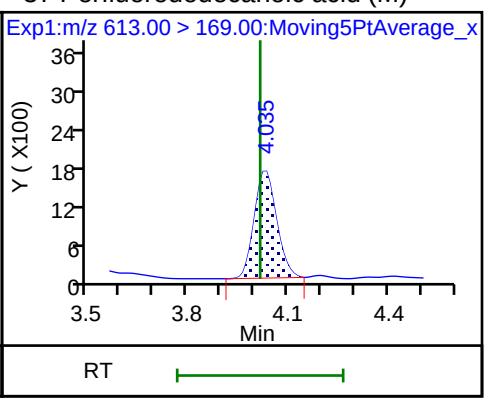
66 11-Chloroeicosafluoro-3-oxaundecan



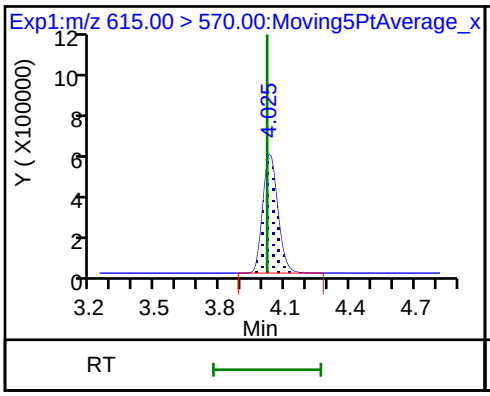
37 Perfluorododecanoic acid (M)



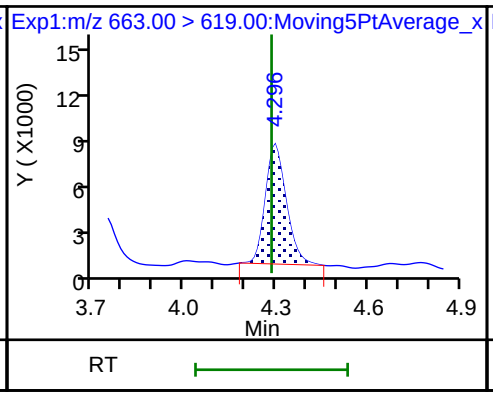
37 Perfluorododecanoic acid (M)



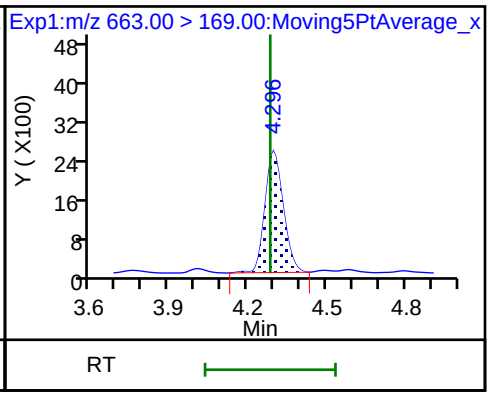
D 36 13C2 PFDoA



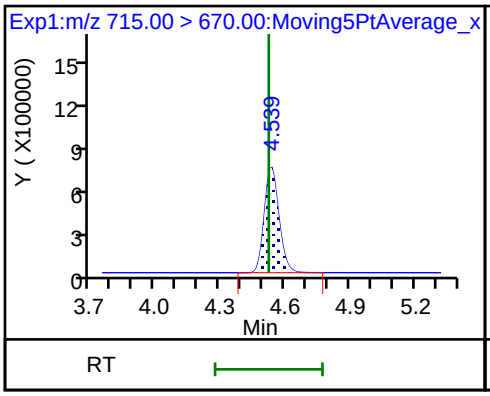
41 Perfluorotridecanoic acid



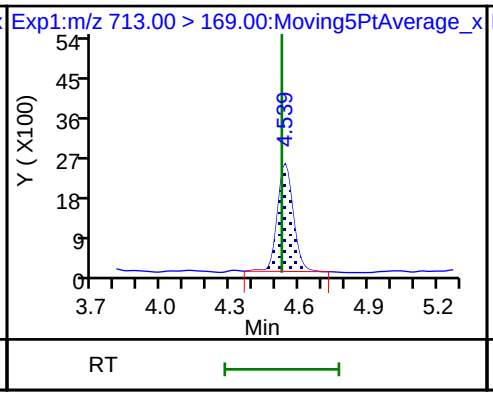
41 Perfluorotridecanoic acid



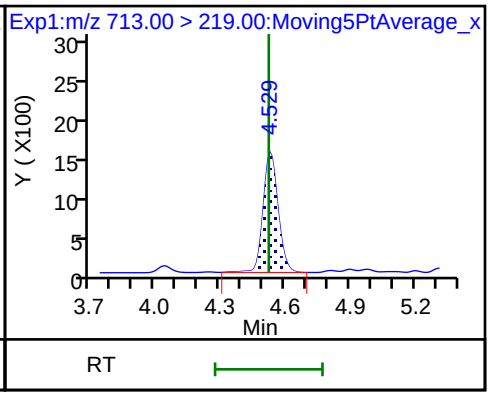
D 43 13C2-PFTeDA



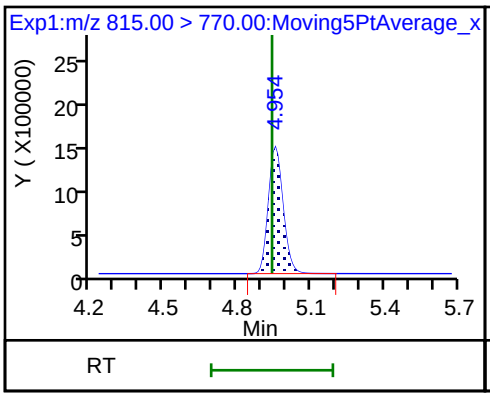
42 Perfluorotetradecanoic acid



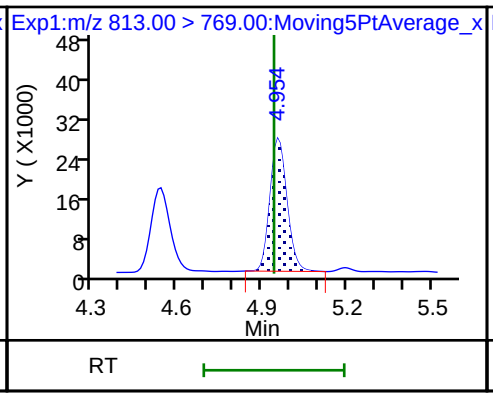
42 Perfluorotetradecanoic acid



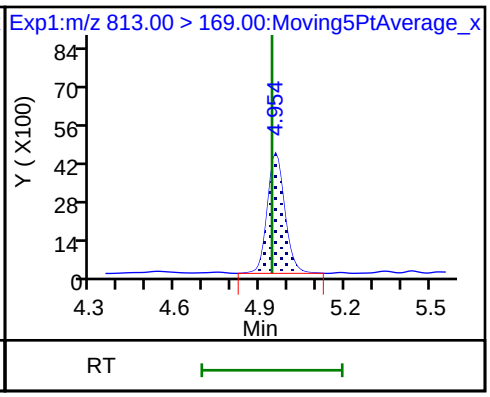
D 44 13C2-PFHxDA



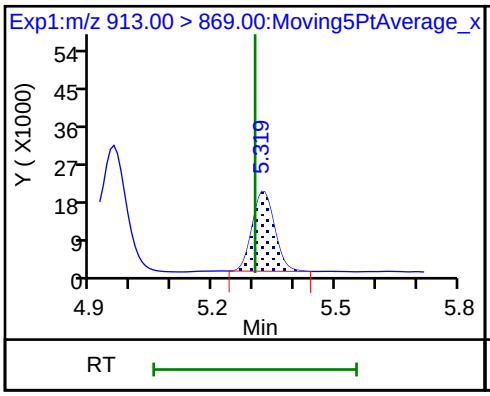
45 Perfluorohexadecanoic acid



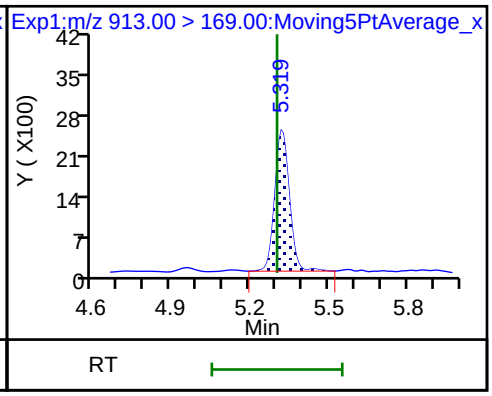
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

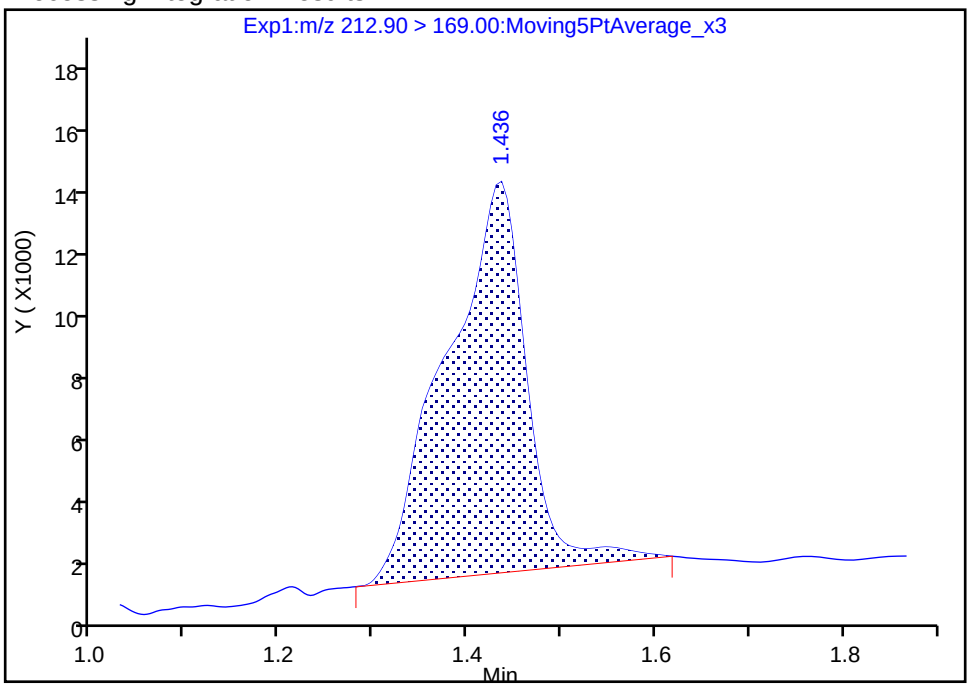
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

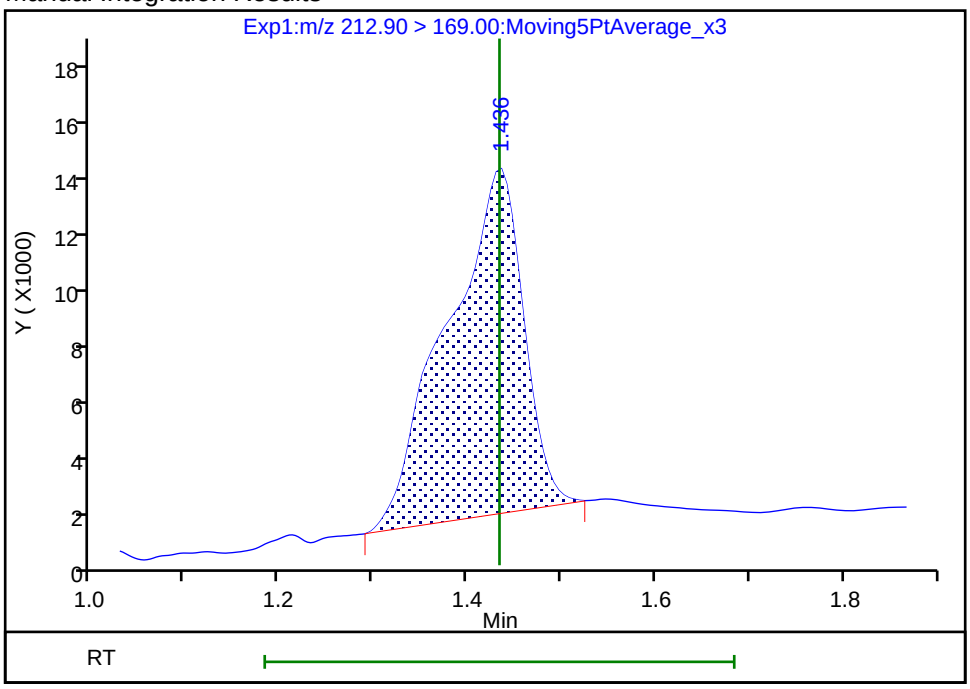
Processing Integration Results

RT: 1.44
Area: 72344
Amount: 0.029958
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 67169
Amount: 0.028389
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:20
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

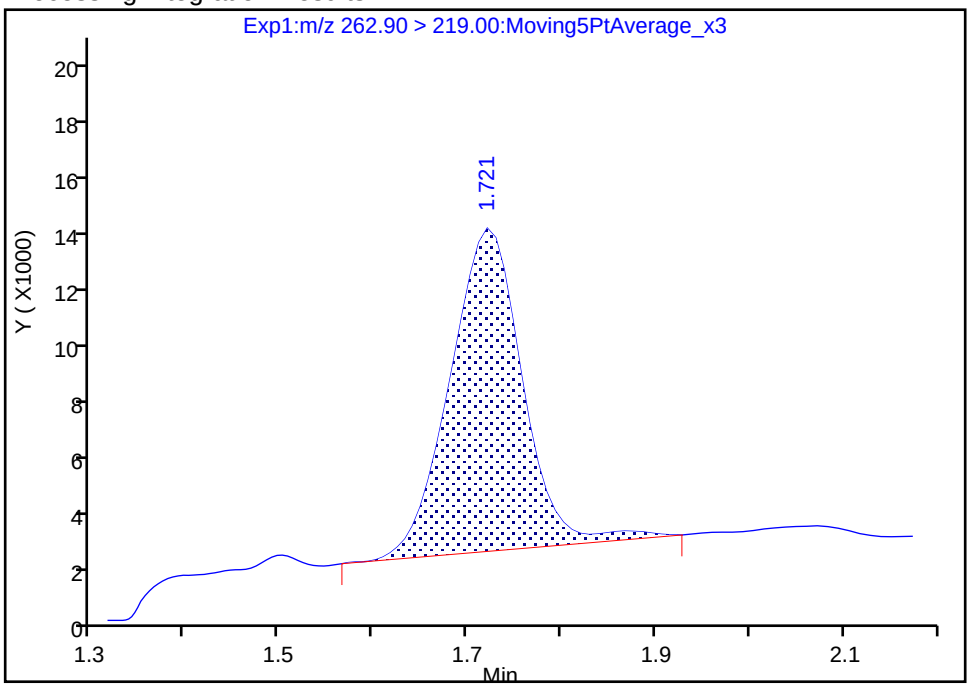
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

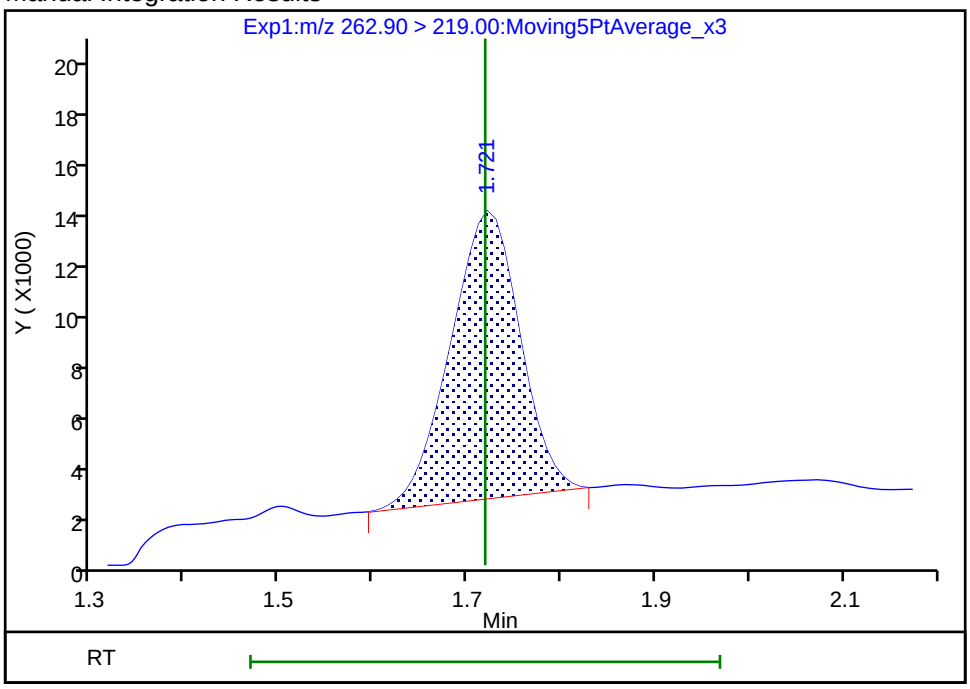
Processing Integration Results

RT: 1.72
Area: 60851
Amount: 0.029660
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 57590
Amount: 0.028328
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

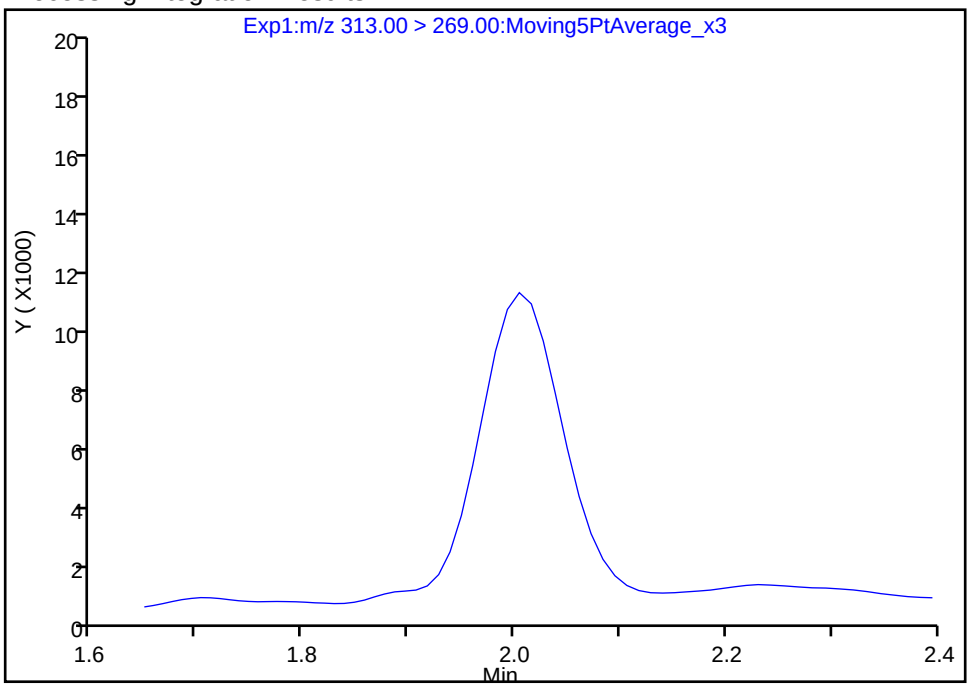
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

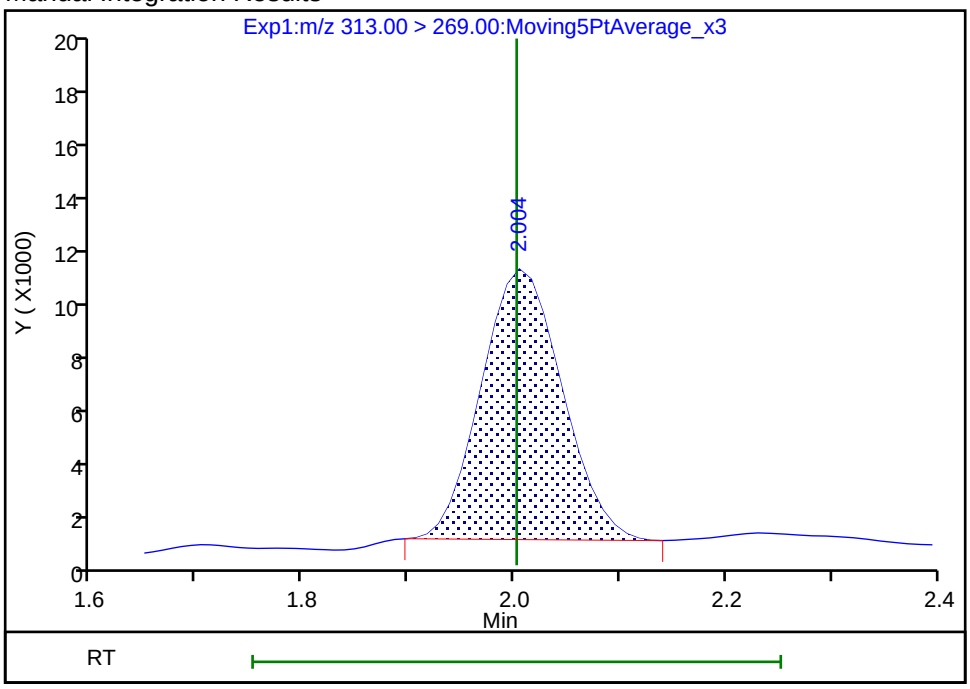
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 51033
Amount: 0.026613
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:05:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

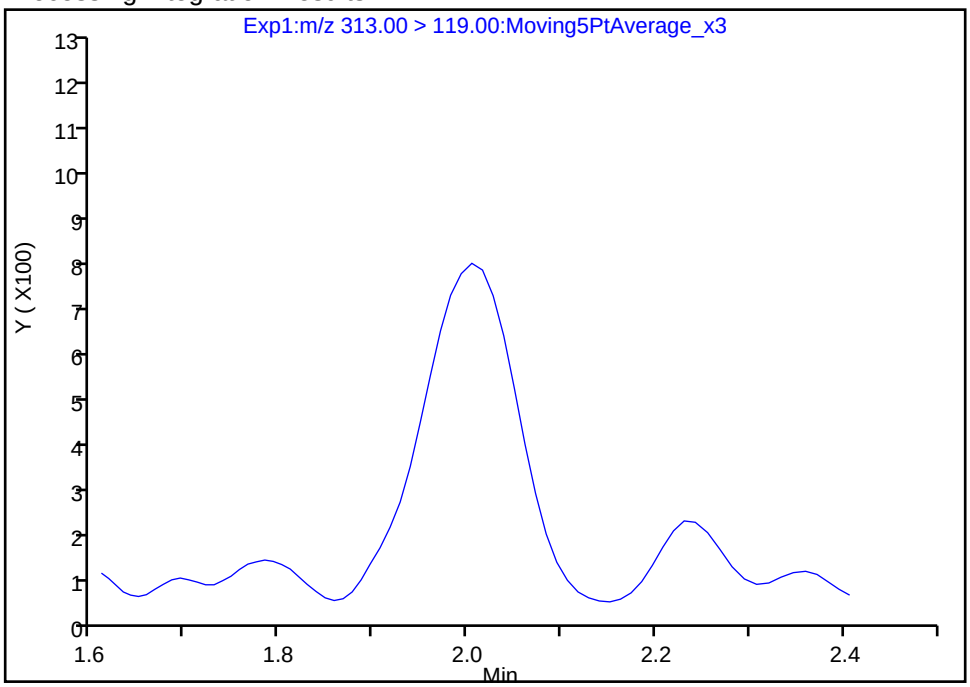
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

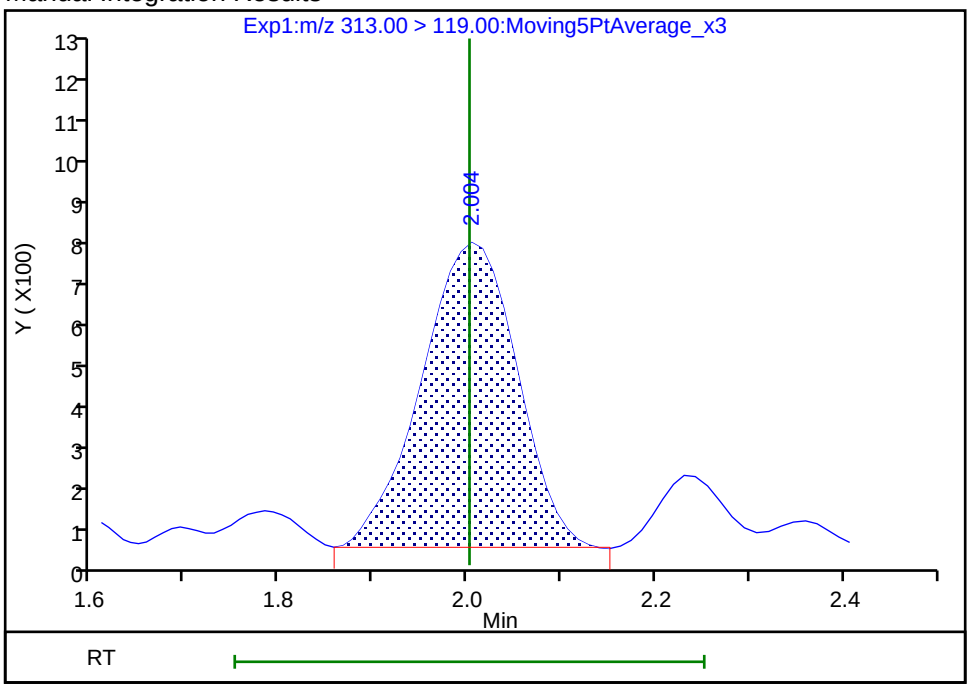
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 5299
Amount: 0.026613
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:05:52
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

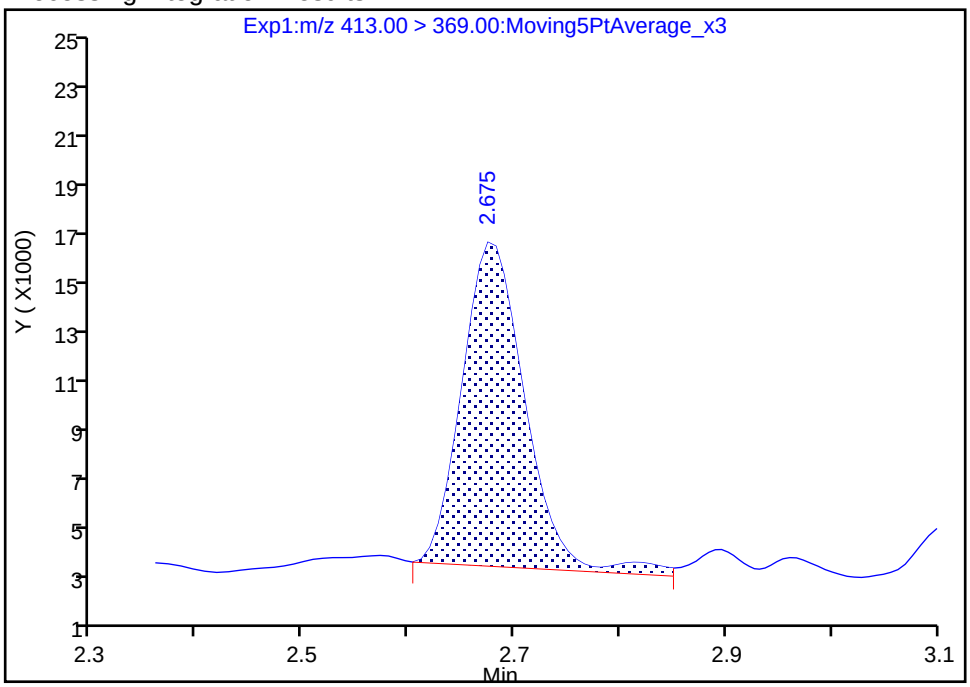
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

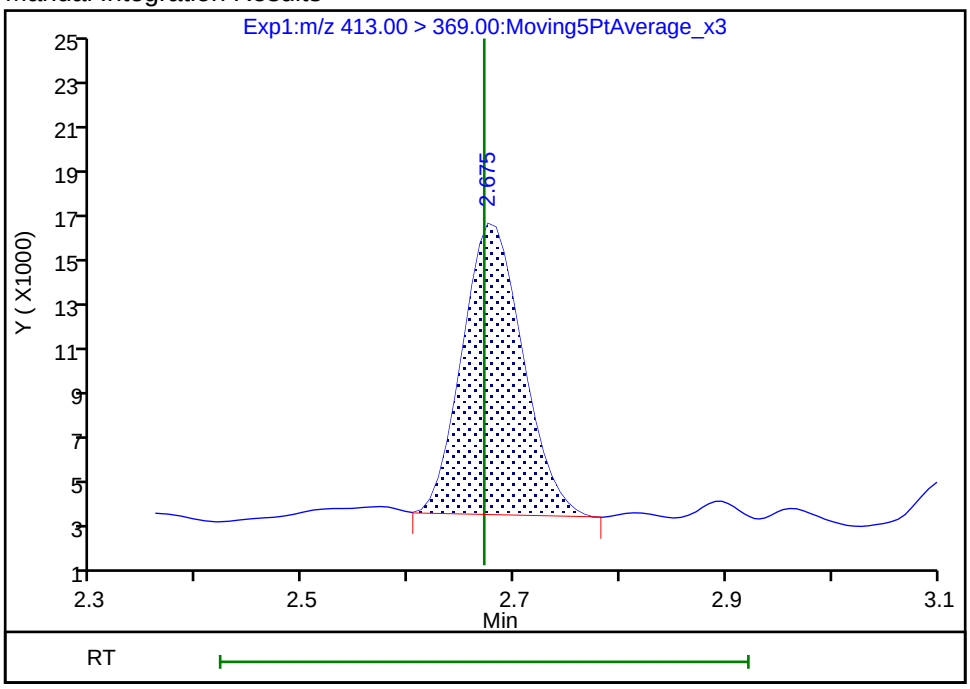
Processing Integration Results

RT: 2.67
Area: 52645
Amount: 0.026626
Amount Units: ng/ml



Manual Integration Results

RT: 2.67
Area: 50090
Amount: 0.025731
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

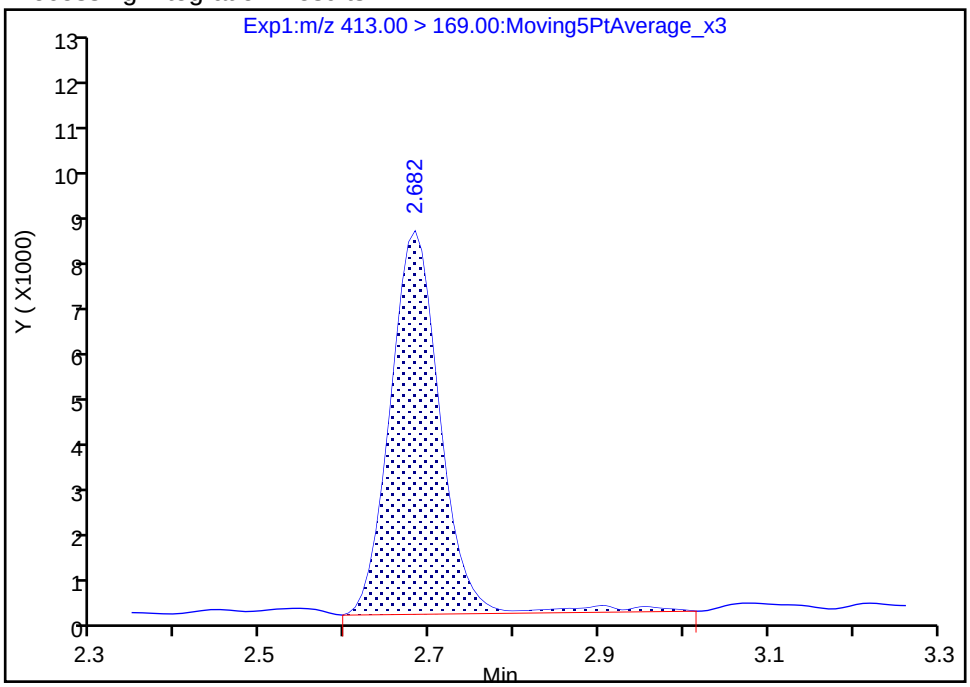
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

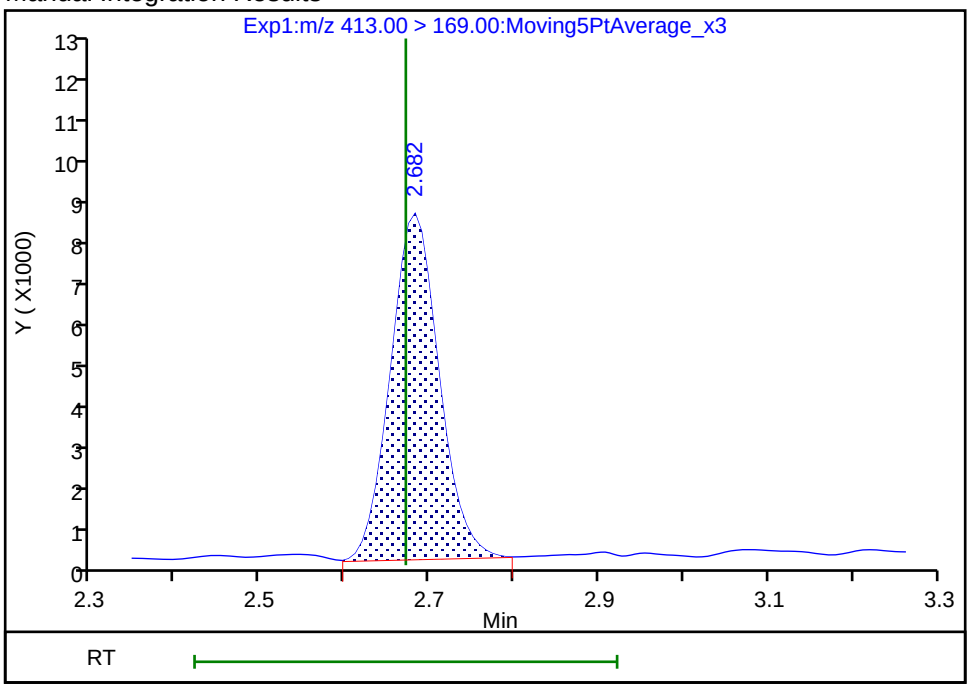
Processing Integration Results

RT: 2.68
Area: 33950
Amount: 0.026626
Amount Units: ng/ml



Manual Integration Results

RT: 2.68
Area: 32967
Amount: 0.025731
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:58
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

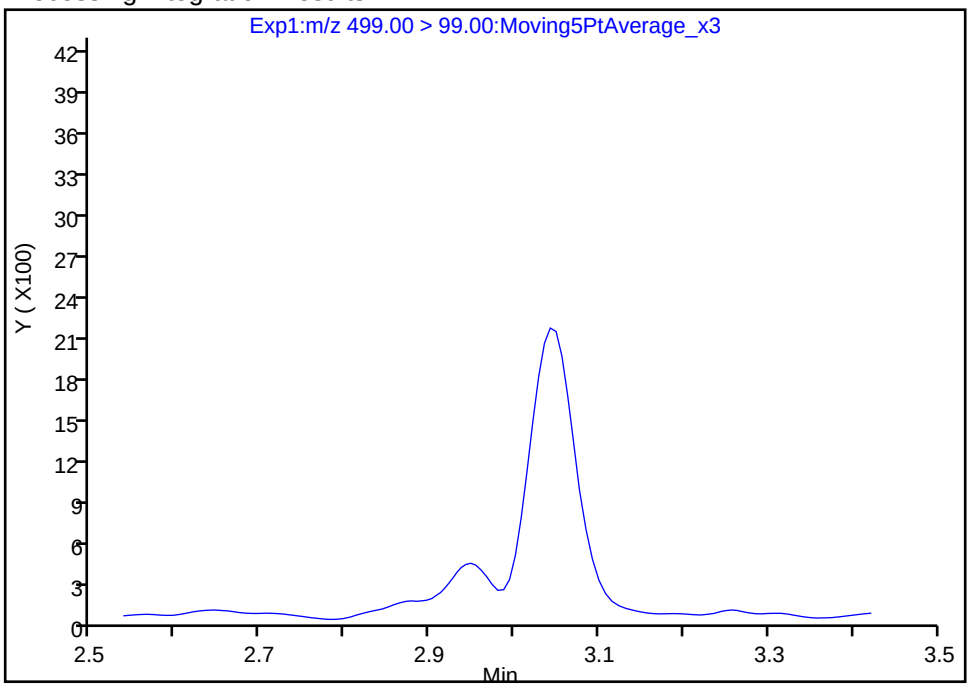
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

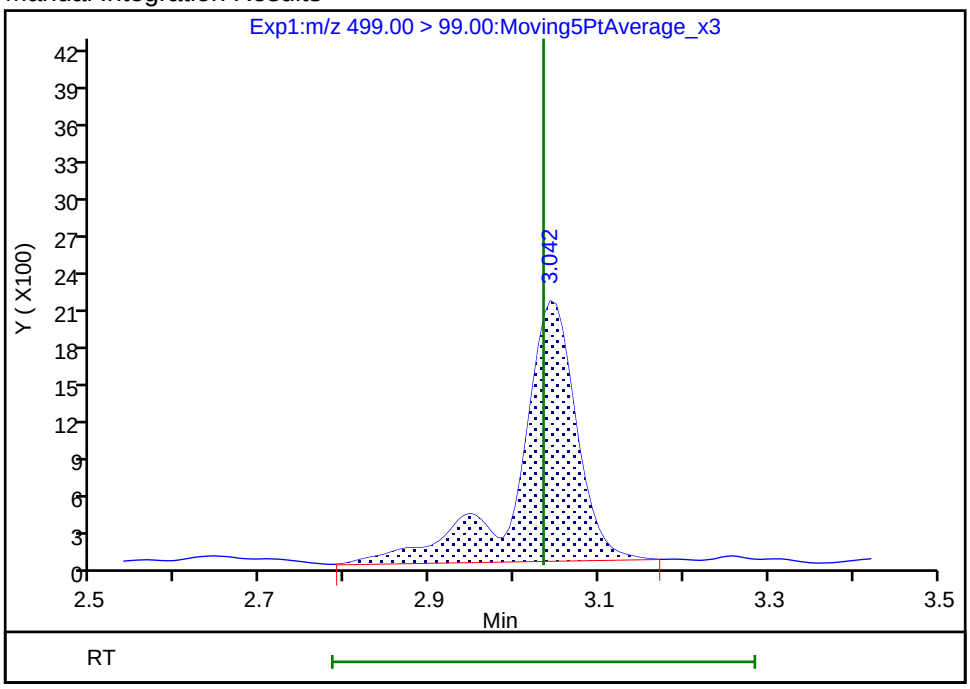
Processing Integration Results

RT: 3.00
Area: 0
Amount: 0.025654
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 9995
Amount: 0.024074
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:07:14
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

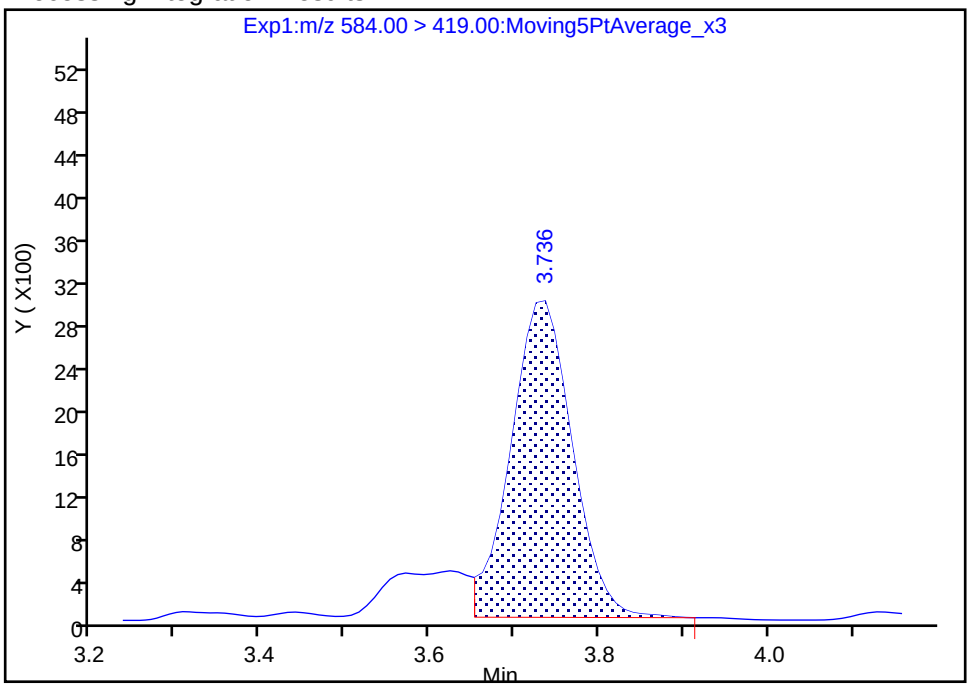
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

33 N-ethyl perfluorooctane sulfonamidoacetic ac, CAS: 2991-50-6

Signal: 1

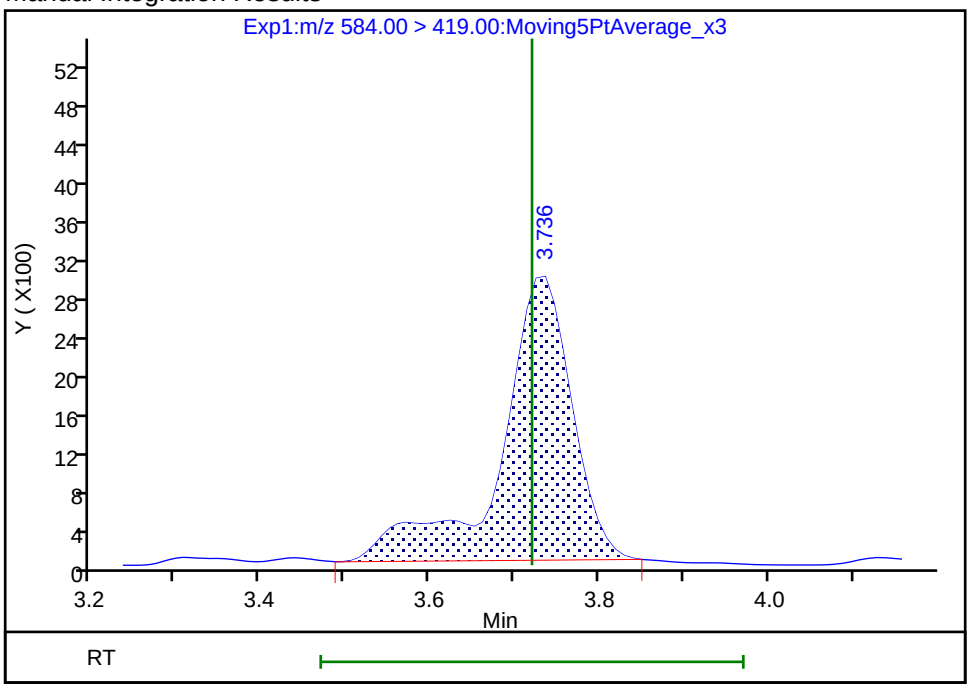
Processing Integration Results

RT: 3.74
Area: 14995
Amount: 0.024253
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 17427
Amount: 0.027245
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:07:36
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

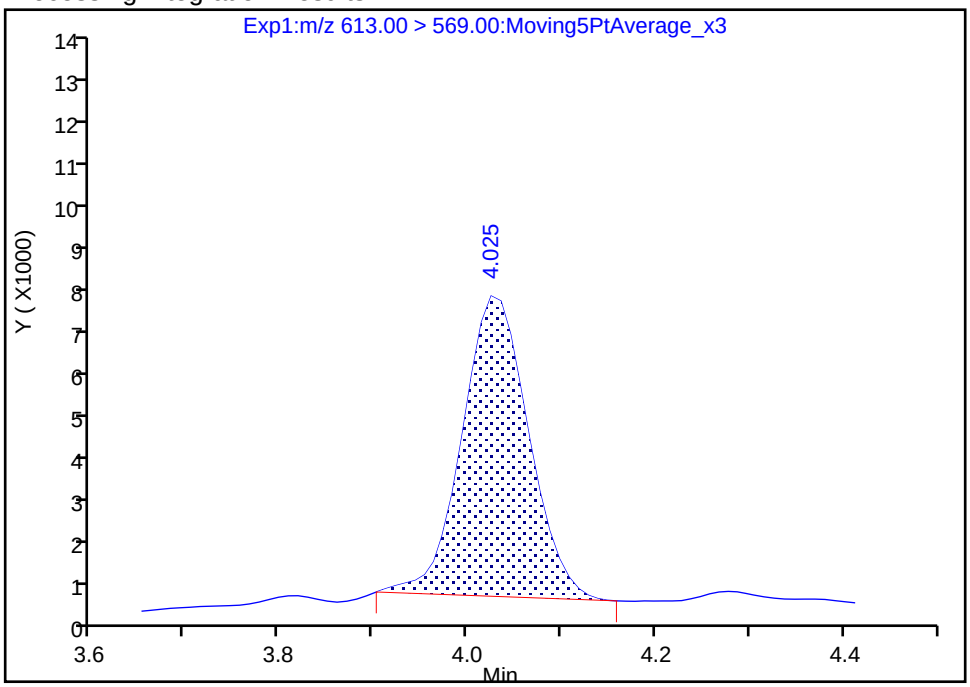
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

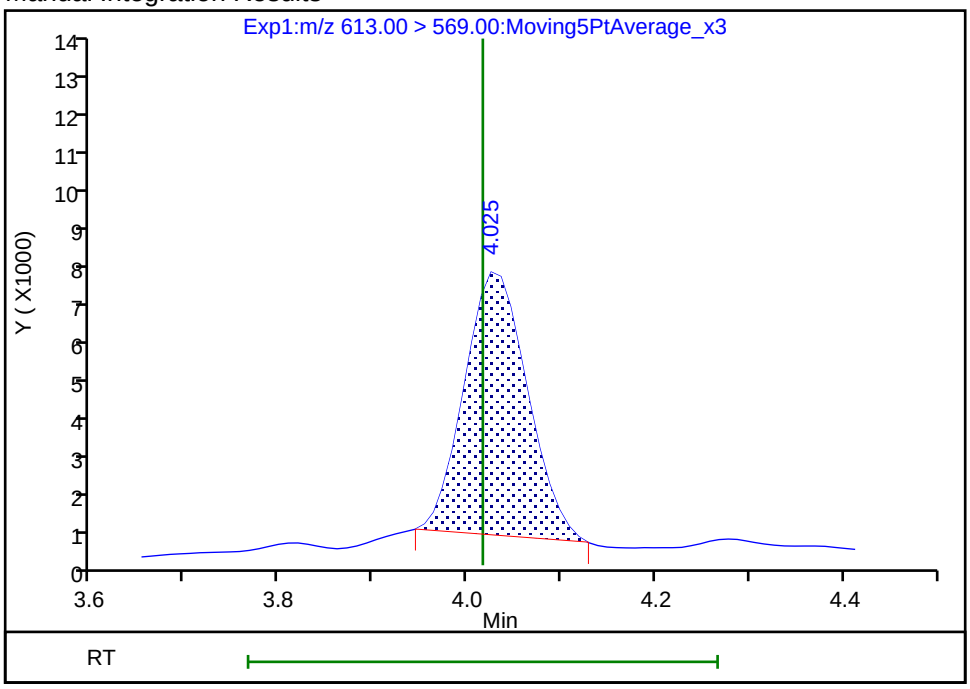
Processing Integration Results

RT: 4.03
Area: 34414
Amount: 0.028303
Amount Units: ng/ml



Manual Integration Results

RT: 4.03
Area: 31624
Amount: 0.026354
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

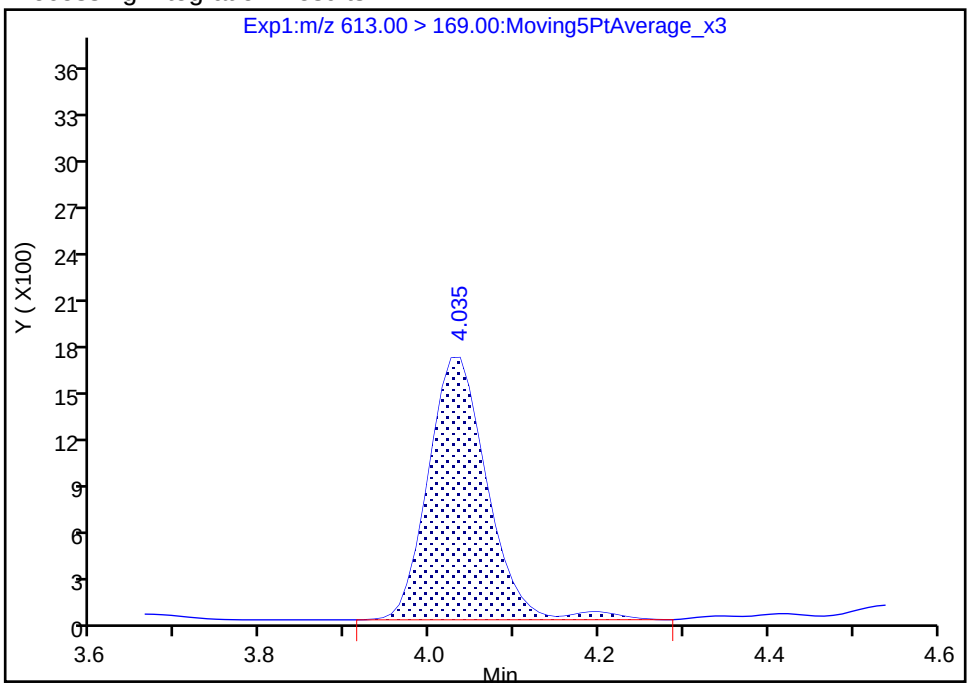
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

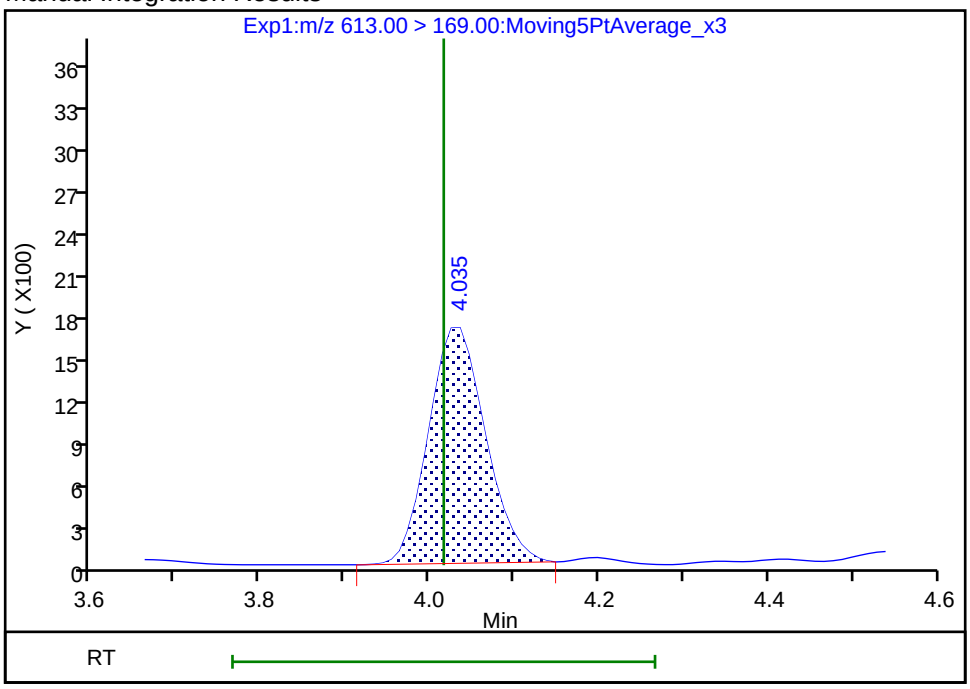
Processing Integration Results

RT: 4.04
Area: 8220
Amount: 0.028303
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 7882
Amount: 0.026354
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:20
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2018 08:59:11 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:50 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:10:03

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.535	6125232	2.42		96.6	25828	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.436	1.434	0.002	1.004	127400	0.0509		102	45.8	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.716	0.004	0.643	4568616	2.43		97.4	49155	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.719	0.001	1.000	113509	0.0522		104	81.6	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.756	0.0	0.657	101062	2.25		96.9	787	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.760	-0.004	1.000	145614	0.0442		100.0	845	
298.90 > 99.00	1.756	1.760	-0.004	1.000	57950		2.51(1.25-3.74)	100.0	646	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.966	0.004	0.737	677914	2.35		101	9719	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.966	0.004	1.122	34819	0.0511		109	2054	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	2.000	0.003	0.749	4862877	2.42		96.8	63588	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.003	2.002	0.001	1.000	103001	0.0520		104	175	M
313.00 > 119.00	2.003	2.002	0.001	1.000	9150		11.26(5.03-15.10)	104	136	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.025	0.0	1.154	133231	0.0473		101	2022	
349.00 > 99.00	2.025	2.025	0.0	1.154	50485		2.64(1.36-4.07)	101	1013	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.105	2.099	0.006	0.787	410277	2.49		99.7	8337	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.099	-0.006	0.995	18507	0.0491		98.1	119	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.318	0.001	1.000	91664	0.0455		91.0	133	
363.00 > 169.00	2.319	2.318	0.001	1.000	39505		2.32(1.13-3.40)	91.0	374	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.318	0.001	0.867	4459007	2.50		100	47397	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.331	0.001	1.000	125879	0.0488		107	1261	
399.00 > 99.00	2.332	2.331	0.001	1.000	37997		3.31(1.50-4.49)	107	360	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.333	-0.001	0.872	5278239	2.41		102	31180	
65 Adona										
377.00 > 251.00	2.358	2.365	-0.007	0.777	265083	0.0475		101	2308	
377.00 > 85.00	2.358	2.365	-0.007	0.777	168363		1.57(0.84-2.53)	101	3234	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.645	-0.001	1.000	31462	0.0505		106	299	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.989	945420	2.36		99.4	18792	
D 14 13C4 PFOA										
417.00 > 372.00	2.675	2.670	0.005	1.000	4361265	2.50		99.9	36654	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.675	2.671	0.004	1.000	110192	0.0533		106	39.0	M
413.00 > 169.00	2.675	2.671	0.004	1.000	60029		1.84(0.84-2.52)	106	360	
* 62 13C2-PFOA										
415.00 > 370.00	2.675	2.671	0.004		4578801	2.50			39626	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.682	2.678	0.004	0.884	103856	0.0515		108	1694	
449.00 > 99.00	2.675	2.678	-0.003	0.881	27065		3.84(1.94-5.82)	108	755	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.035	3.034	0.001	1.000	85326	0.0485		104	2397	
499.00 > 99.00	3.035	3.034	0.001	1.000	21775		3.92(2.31-6.93)	104	522	
D 19 13C5 PFNA										
468.00 > 423.00	3.035	3.034	0.001	1.135	3648217	2.46		98.3	31198	
D 18 13C4 PFOS										
503.00 > 80.00	3.035	3.034	0.001	1.135	3601856	2.30		96.2	31821	
20 Perfluorononanoic acid										
463.00 > 419.00	3.035	3.036	-0.001	1.000	74314	0.0473		94.5	125	
463.00 > 169.00	3.035	3.036	-0.001	1.000	19664		3.78(1.90-5.69)	94.5	766	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.246	-0.002	1.069	139553	0.0490		105	2218	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.255	5388753	2.48		99.1	32851	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	109173	0.0511		102	2805	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.385	3.379	0.006	1.115	63937	0.0522		109	1802	
549.00 > 99.00	3.385	3.379	0.006	1.115	22013		2.90(1.33-3.97)	109	711	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.385	3.382	0.003	1.265	1130537	2.54		106	19719	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.385	3.383	0.002	1.000	28993	0.0465		97.1	649	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.394	3.393	0.001	1.000	67800	0.0503		101	259	
513.00 > 169.00	3.394	3.393	0.001	1.000	12210		5.55(2.36-7.09)	101	252	
D 23 13C2 PFDA										
515.00 > 470.00	3.394	3.393	0.001	1.269	3233809	2.53		101	33327	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.543	3.543	0.0	1.325	1841966	2.44		97.6	28355	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.553	3.551	0.001	1.003	42535	0.0561		112	296	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.704	3.702	0.002	1.220	54383	0.0502		104	1125	
599.00 > 99.00	3.704	3.702	0.002	1.220	17030		3.19(1.39-4.16)	104	917	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.715	3.713	0.002	1.389	1922718	2.58		103	14506	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.726	3.721	0.005	1.000	45721	0.0492		98.4	157	
563.00 > 169.00	3.726	3.721	0.005	1.000	9252		4.94(2.12-6.36)	98.4	273	
33 N-ethyl perfluorooctane sulfonamid										M
584.00 > 419.00	3.726	3.721	0.005	1.003	34849	0.0503		101	538	M
D 30 13C2 PFUnA										
565.00 > 520.00	3.726	3.721	0.005	1.393	2733892	2.54		102	37599	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.882	3.879	0.003	1.279	213537	0.0491		104	3758	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.015	4.016	-0.001	1.000	62069	0.0467		93.5	62.4	
613.00 > 169.00	4.015	4.016	-0.001	1.000	17778		3.49(2.13-6.40)	93.5	377	
D 36 13C2 PFDoA										
615.00 > 570.00	4.015	4.016	-0.001	1.501	3012454	2.61		105	15080	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.287	4.284	0.003	1.068	77431	0.0524		105	84.5	
663.00 > 169.00	4.287	4.284	0.003	1.068	22681		3.41(1.25-3.76)	105	370	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.528	4.524	0.004	1.693	3501728	2.49		99.7	14609	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.528	4.524	0.004	1.000	18829	0.0496		99.3	255	
713.00 > 219.00	4.518	4.524	-0.006	0.998	14104		1.34(0.71-2.13)	99.3	293	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.945	4.940	0.005	1.849	6624124	2.55		102	13383	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.945	4.941	0.004	1.000	185133	0.0507		101	86.0	
813.00 > 169.00	4.945	4.941	0.004	1.000	31417		5.89(2.86-8.58)	101	268	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.311	5.302	0.009	1.074	162737	0.0528		106	53.6	
913.00 > 169.00	5.311	5.302	0.009	1.074	21103		7.71(3.83-11.48)	106	301	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d

Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N

Lims ID: IC L2 Full

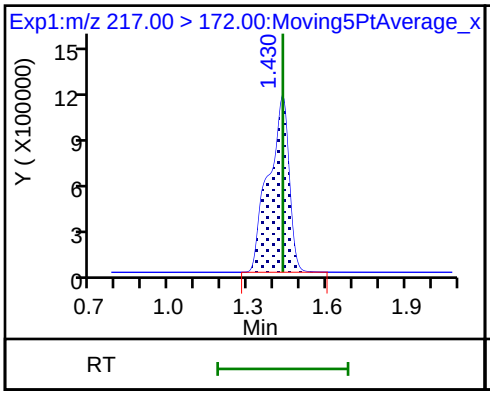
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

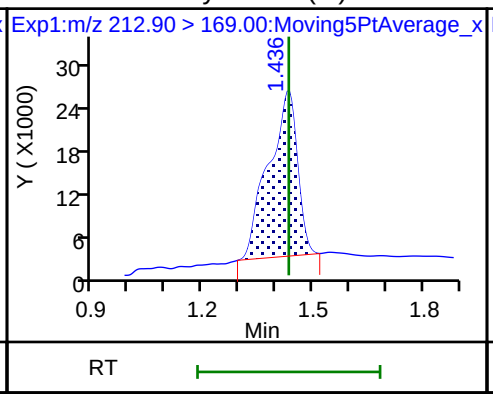
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

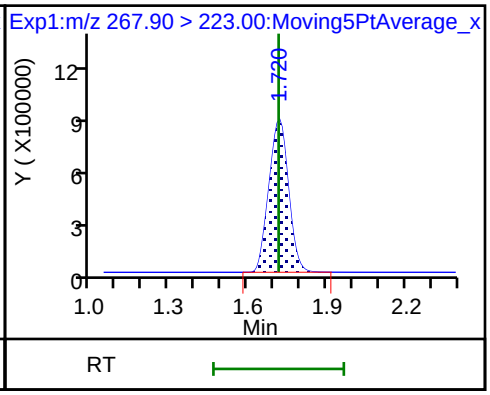
D 1 13C4 PFBA



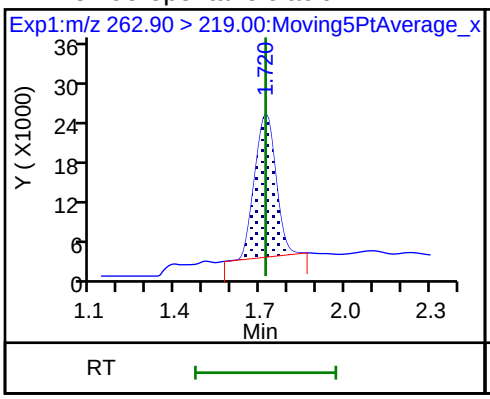
2 Perfluorobutyric acid (M)



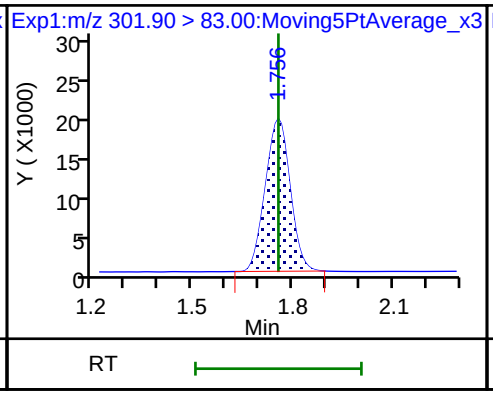
D 3 13C5-PFPeA



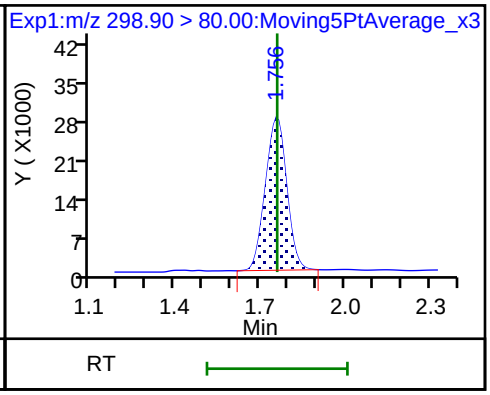
4 Perfluoropentanoic acid



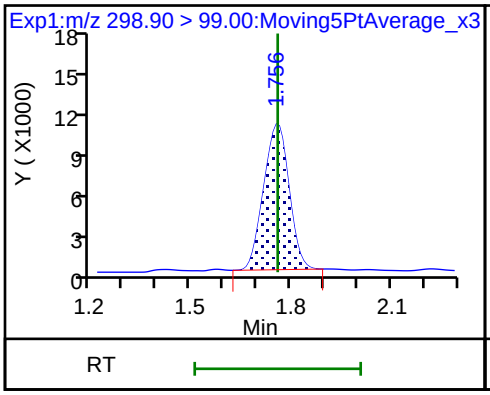
D 47 13C3-PFBS



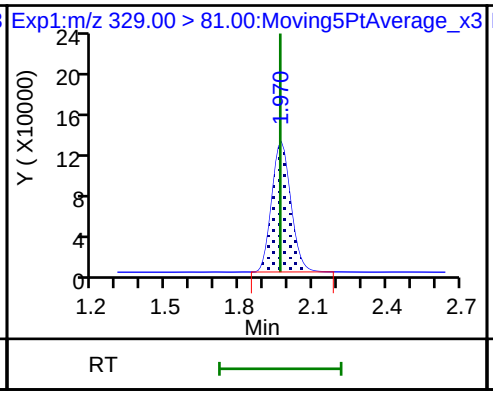
5 Perfluorobutanesulfonic acid



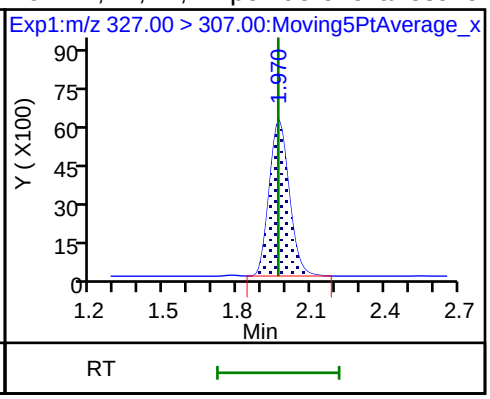
5 Perfluorobutanesulfonic acid



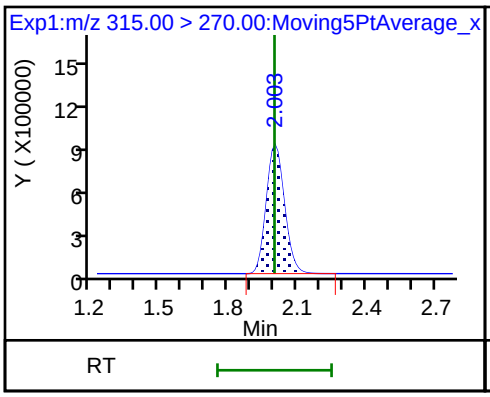
D 60 M2-4:2FTS



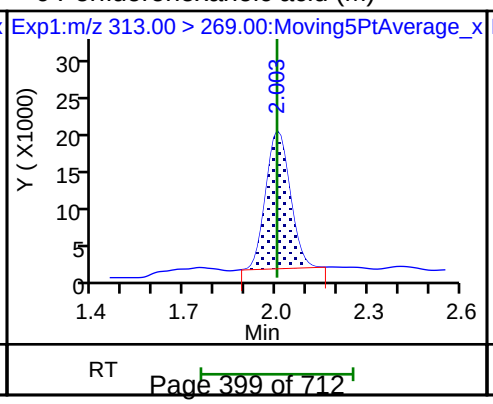
61 1H,1H,2H,2H-perfluorohexanesulfoni



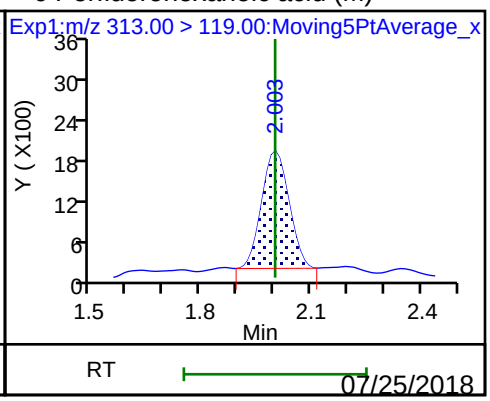
D 7 13C2 PFHxA



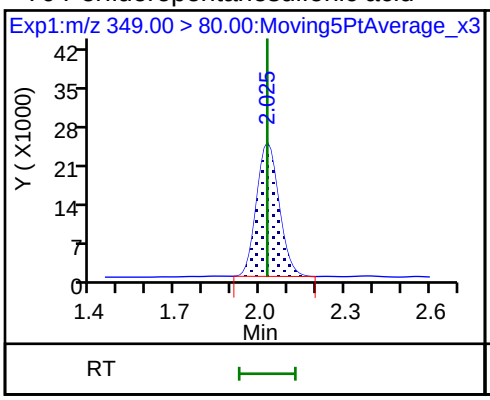
6 Perfluorohexanoic acid (M)



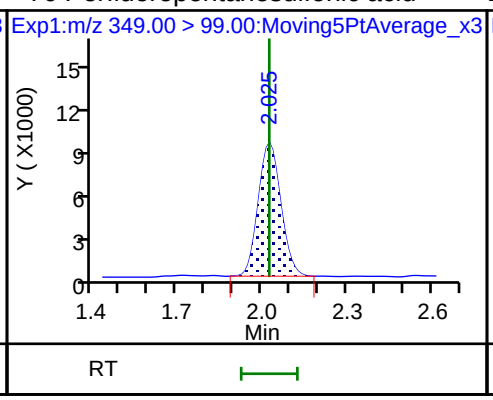
6 Perfluorohexanoic acid (M)



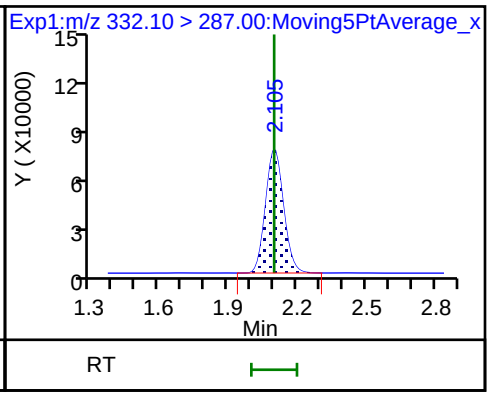
70 Perfluoropentanesulfonic acid



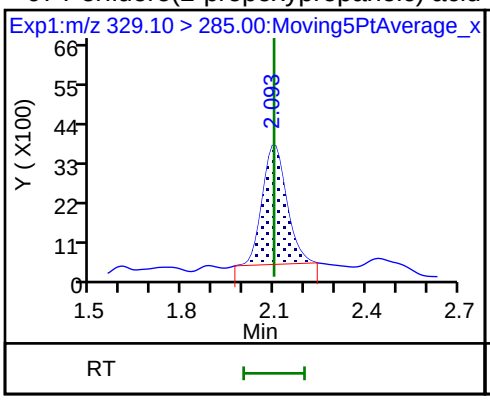
70 Perfluoropentanesulfonic acid



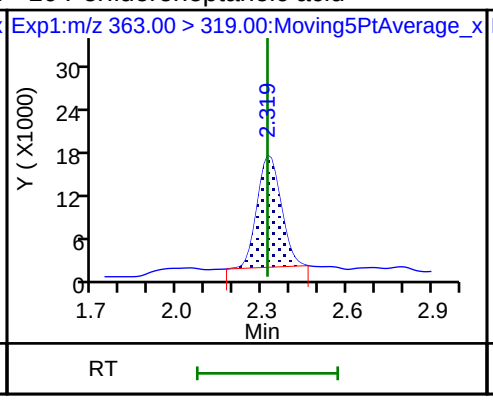
D 64 13C3 HFPO-DA



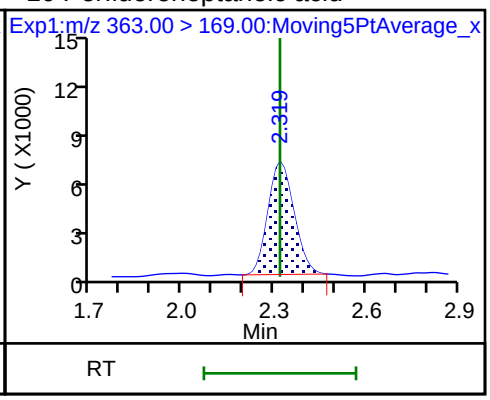
67 Perfluoro(2-propoxypropanoic) acid



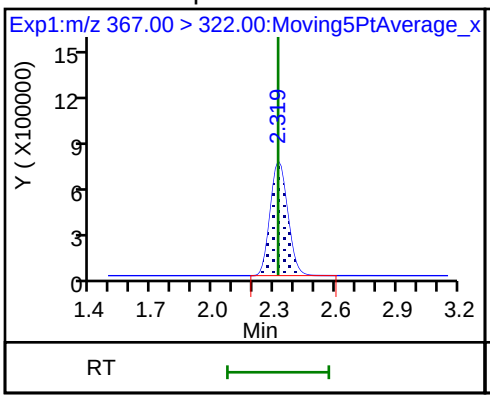
10 Perfluoroheptanoic acid



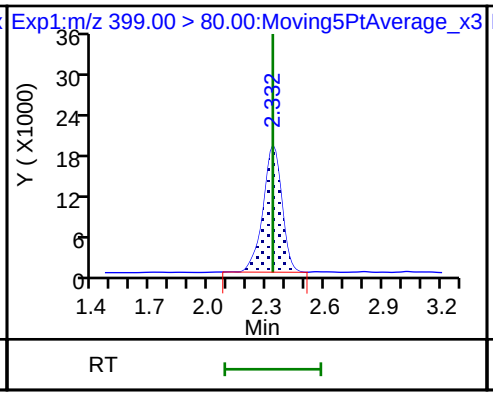
10 Perfluoroheptanoic acid



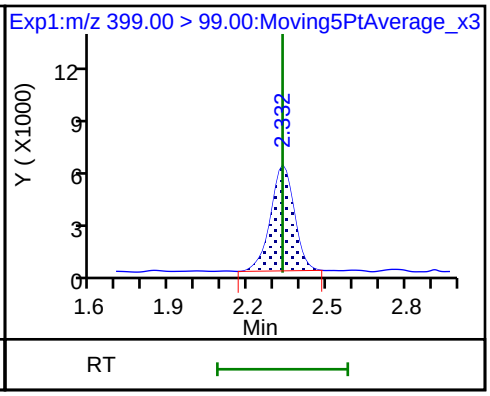
D 9 13C4-PFHpA



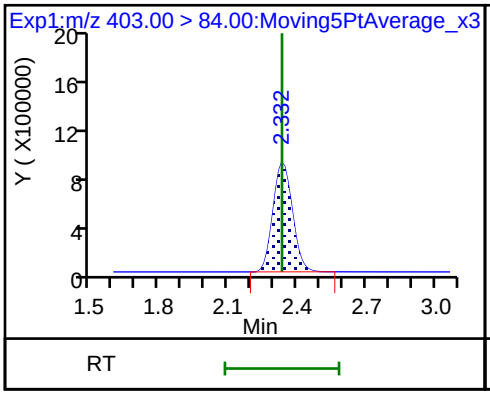
8 Perfluorohexanesulfonic acid



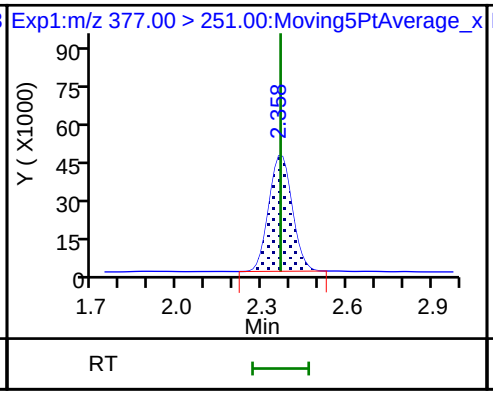
8 Perfluorohexanesulfonic acid



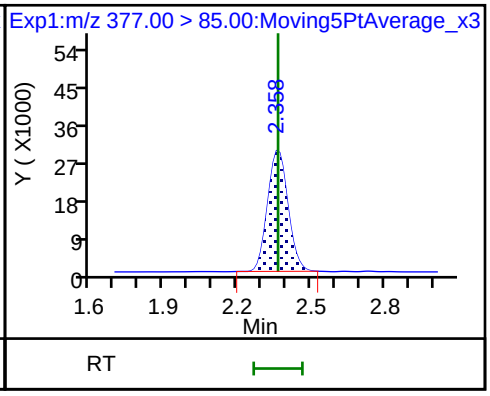
D 11 18O2 PFHxS



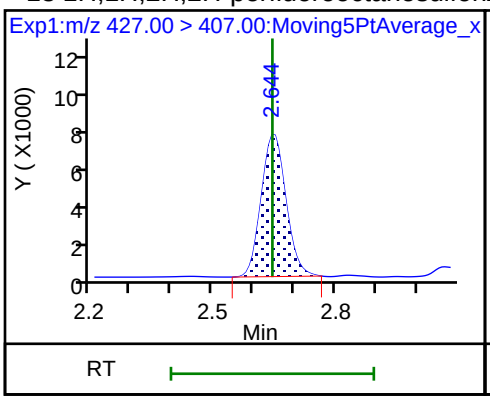
65 Adona



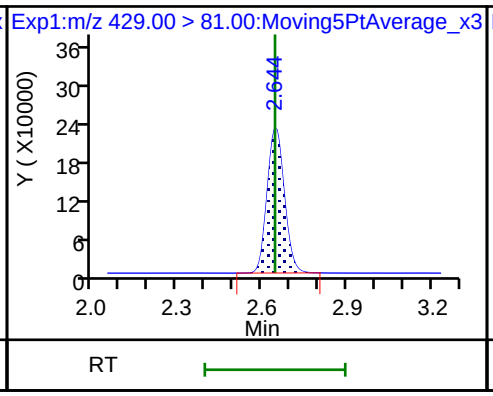
65 Adona



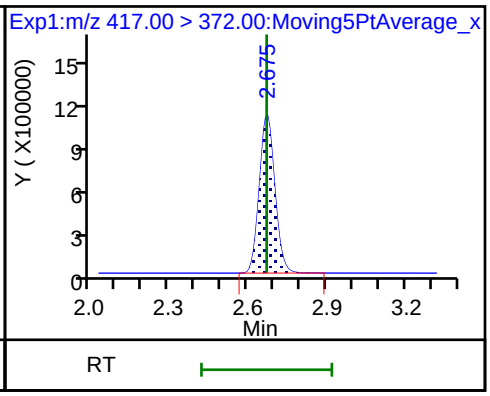
13 1H,1H,2H,2H-perfluorooctanesulfon



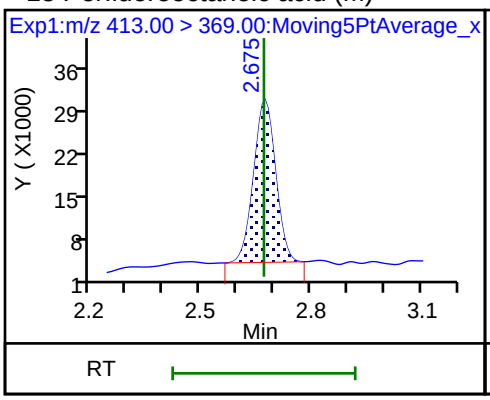
D 12 M2-6:2FTS



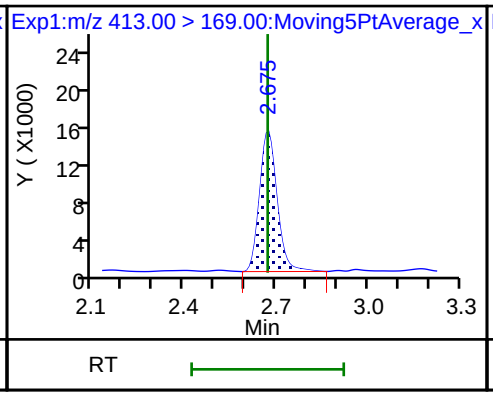
D 14 13C4 PFOA



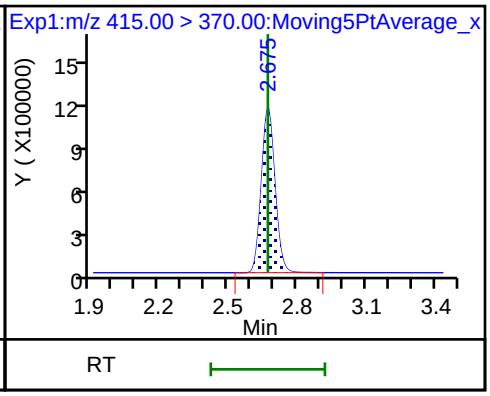
15 Perfluorooctanoic acid (M)



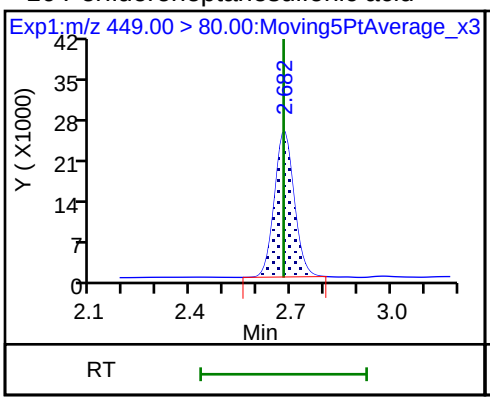
15 Perfluorooctanoic acid



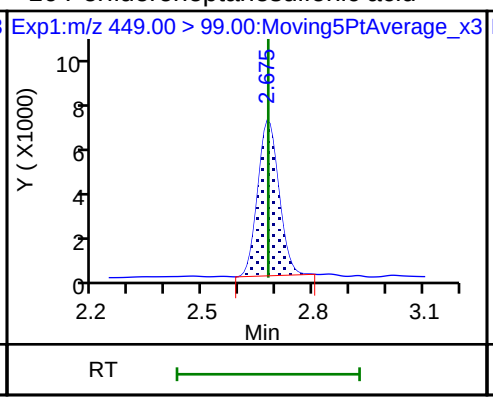
* 62 13C2-PFOA



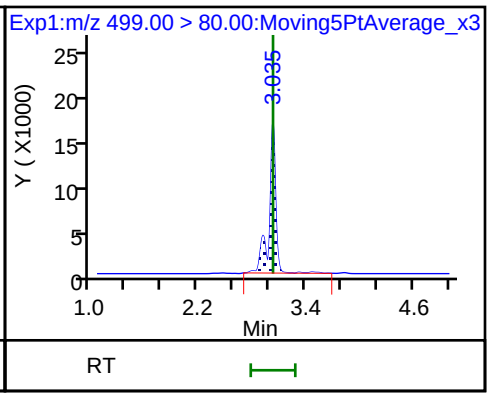
16 Perfluoroheptanesulfonic acid



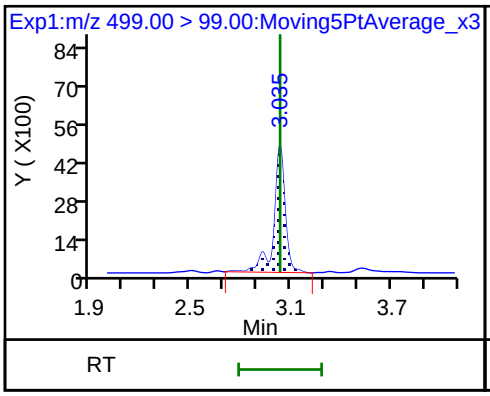
16 Perfluoroheptanesulfonic acid



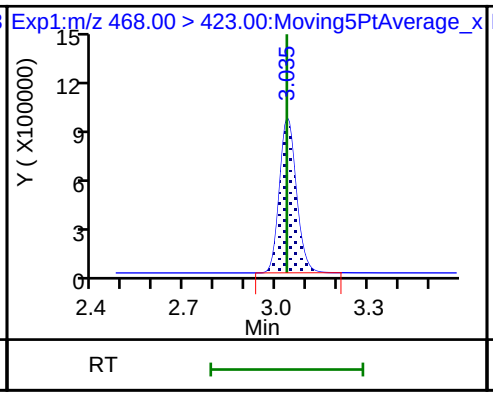
17 Perfluorooctane sulfonic acid



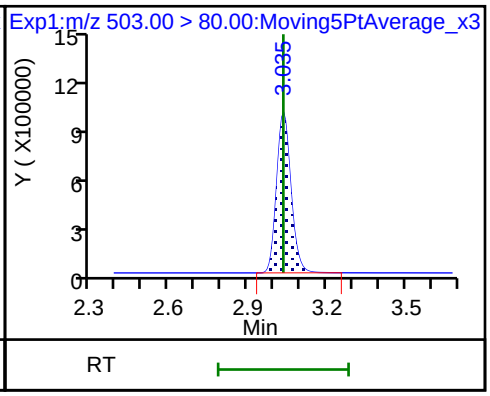
17 Perfluorooctane sulfonic acid



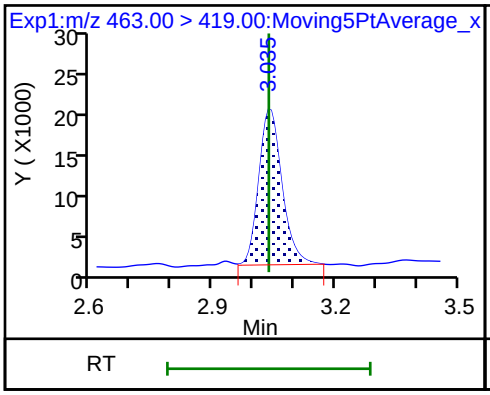
D 19 13C5 PFNA



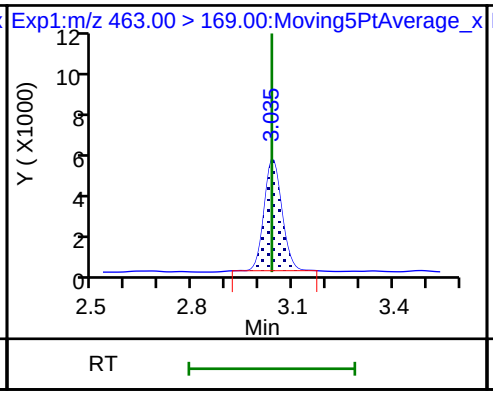
D 18 13C4 PFOS



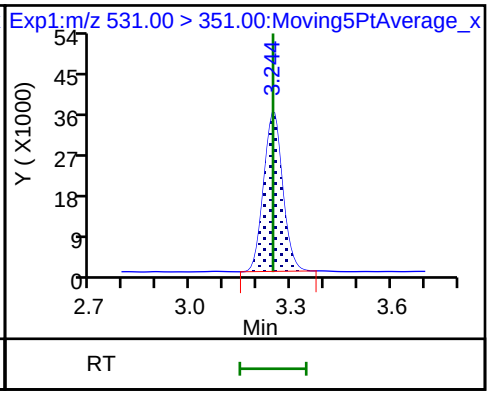
20 Perfluorononanoic acid



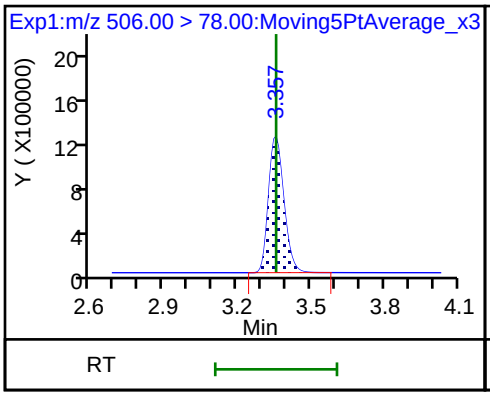
20 Perfluorononanoic acid



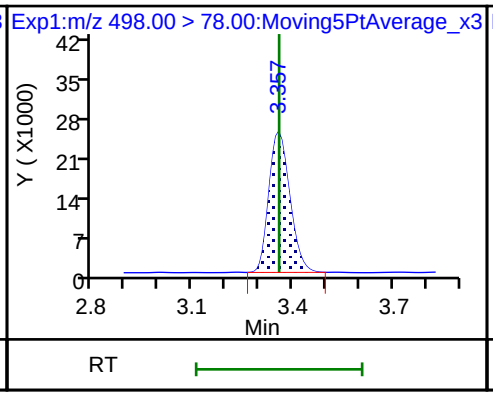
69 9-Chlorohexadecafluoro-3-oxanonane



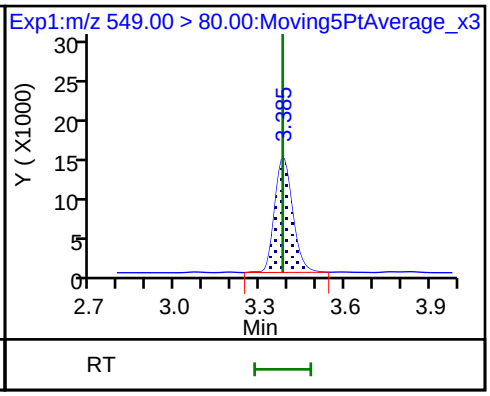
D 21 13C8 FOSA



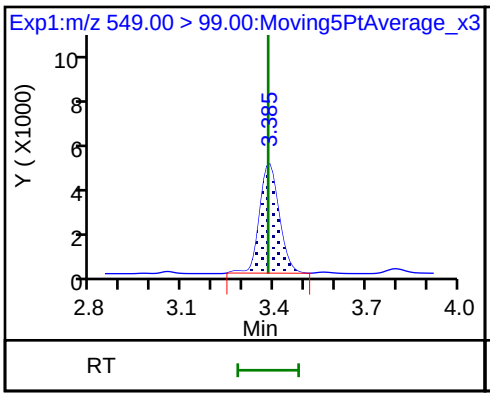
22 Perfluorooctane Sulfonamide



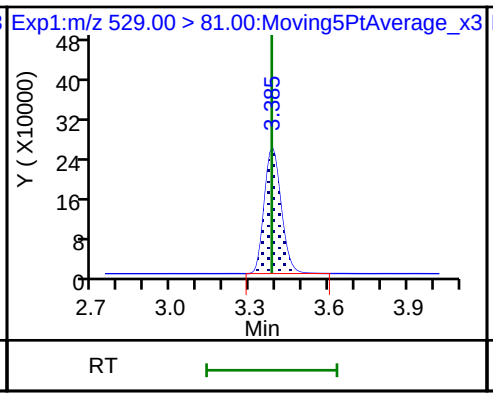
68 Perfluorononanesulfonic acid



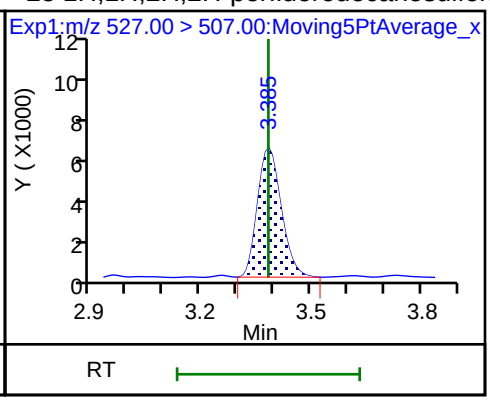
68 Perfluorononanesulfonic acid



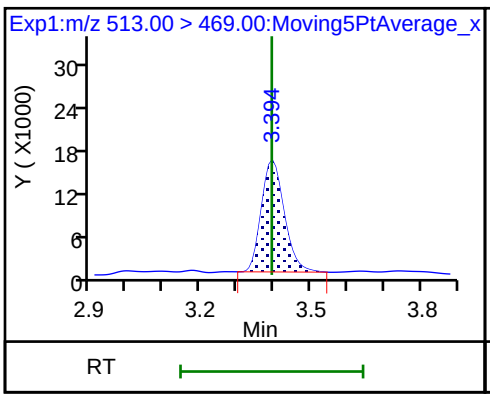
D 26 M2-8:2FTS



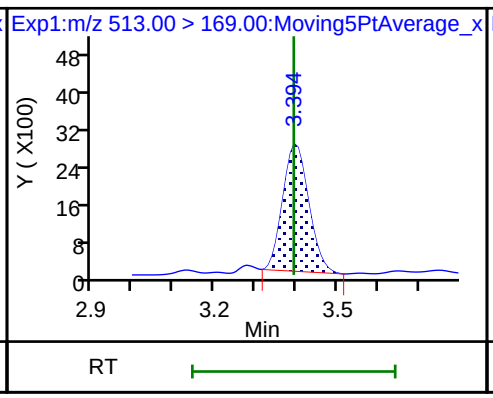
25 1H,1H,2H,2H-perfluorodecanesulfoni



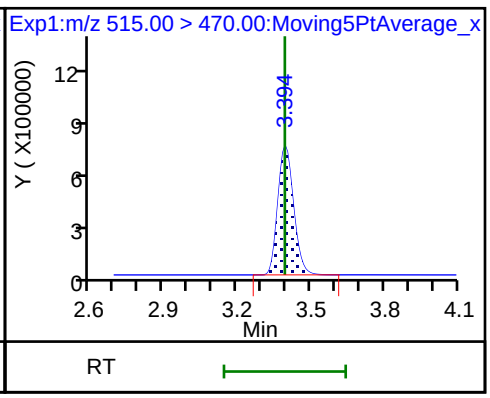
24 Perfluorodecanoic acid



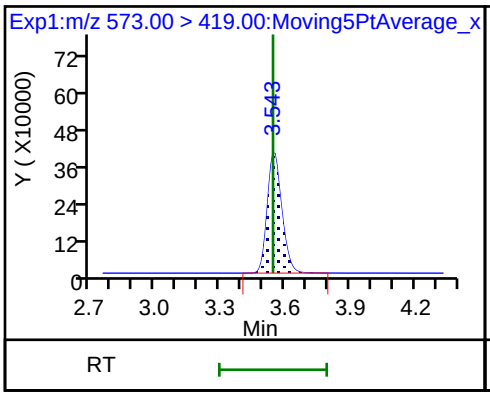
24 Perfluorodecanoic acid



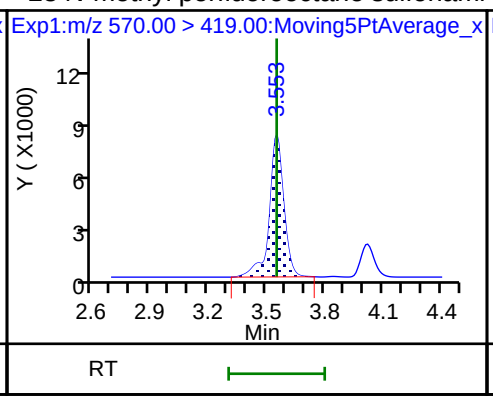
D 23 13C2 PFDA



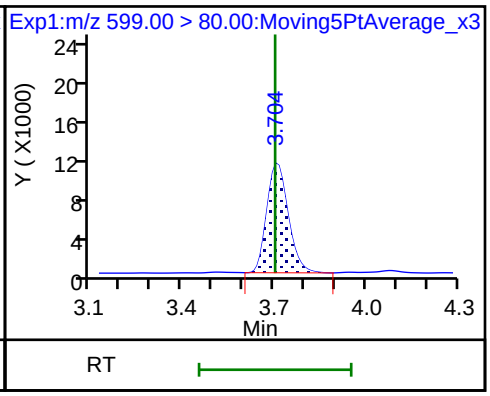
D 27 d3-NMeFOSAA



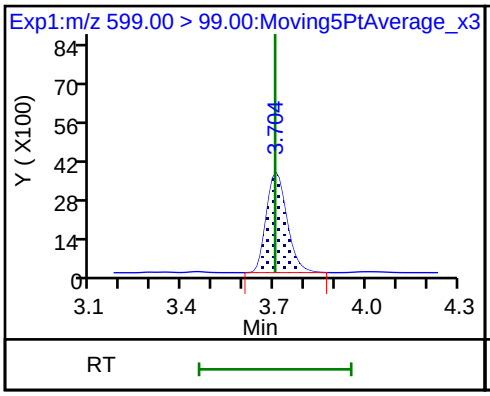
28 N-methyl perfluorooctane sulfonami



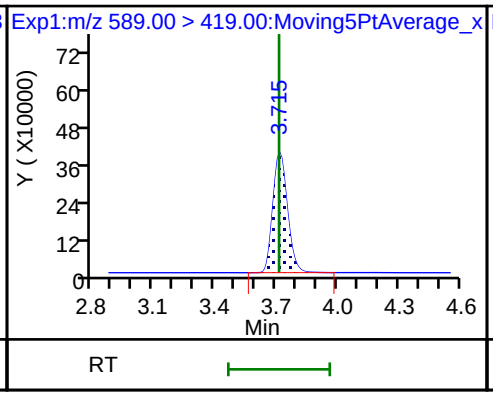
29 Perfluorodecane Sulfonic acid



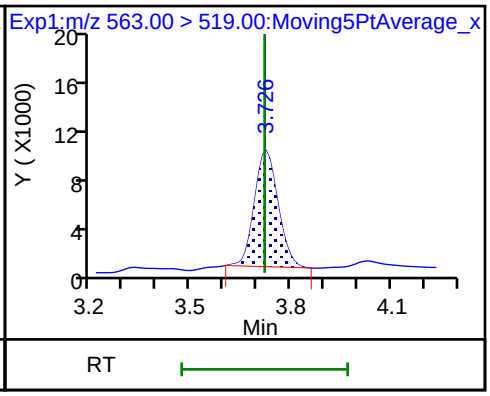
29 Perfluorodecane Sulfonic acid



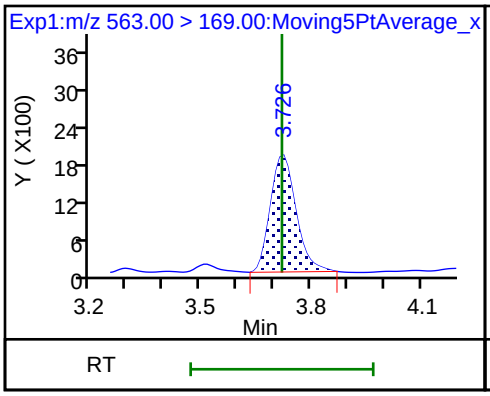
D 32 d5-NEtFOSAA



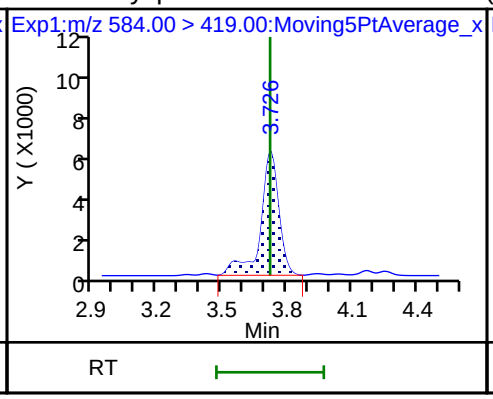
31 Perfluoroundecanoic acid



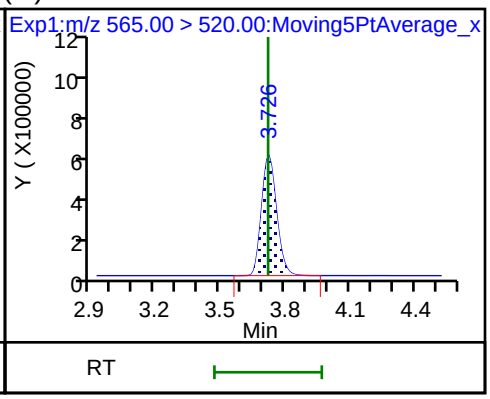
31 Perfluoroundecanoic acid



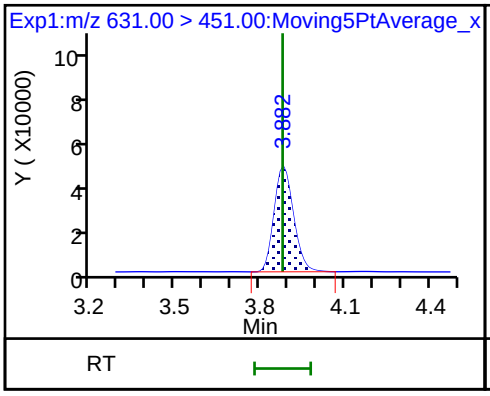
33 N-ethyl perfluorooctane sulfonamid



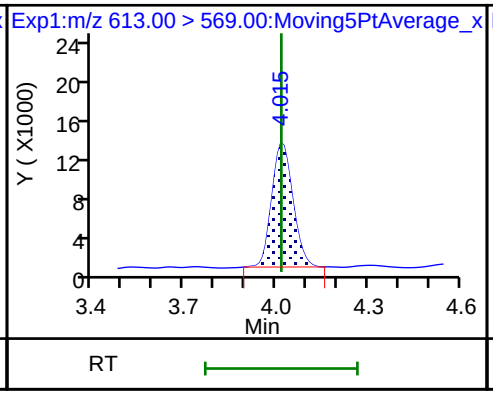
(M)30 13C2 PFUnA



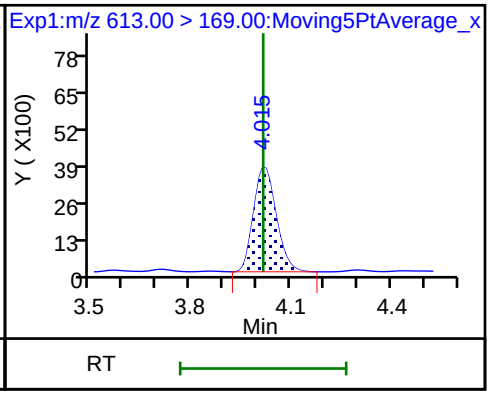
66 11-Chloroeicosafluoro-3-oxaundecan



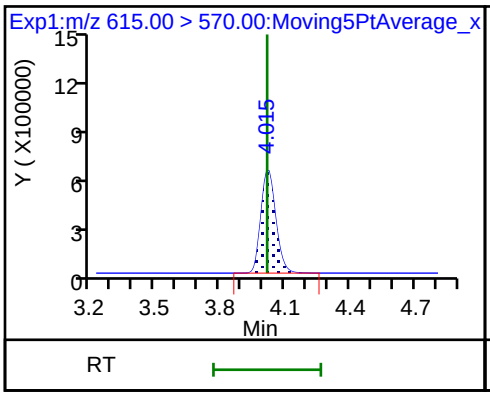
37 Perfluorododecanoic acid



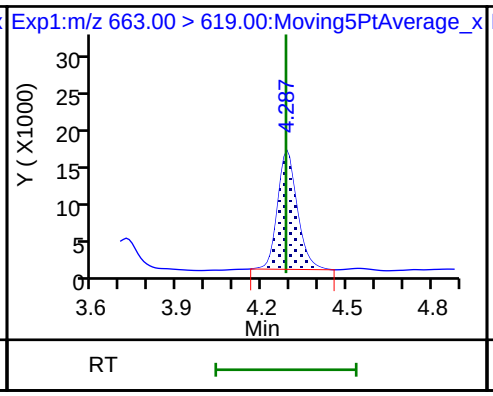
37 Perfluorododecanoic acid



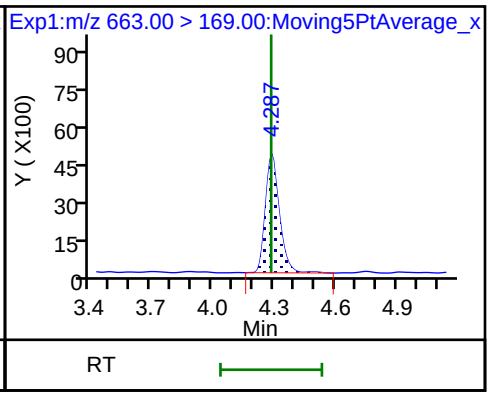
D 36 13C2 PFDoA



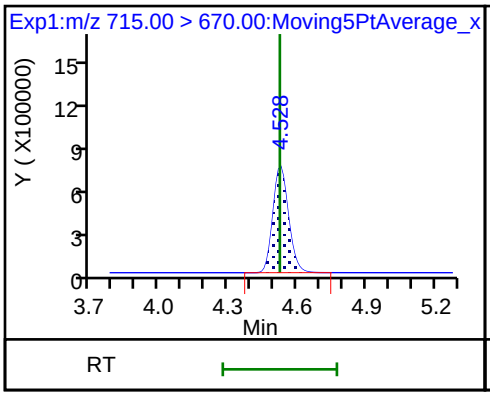
41 Perfluorotridecanoic acid



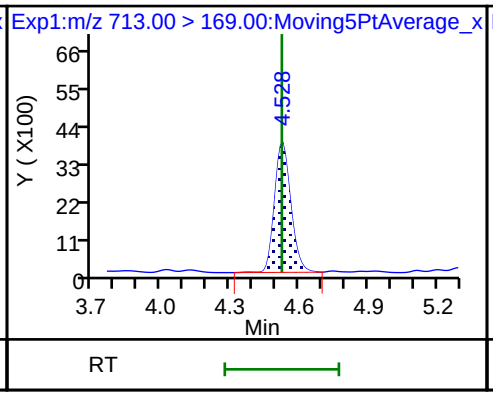
41 Perfluorotridecanoic acid



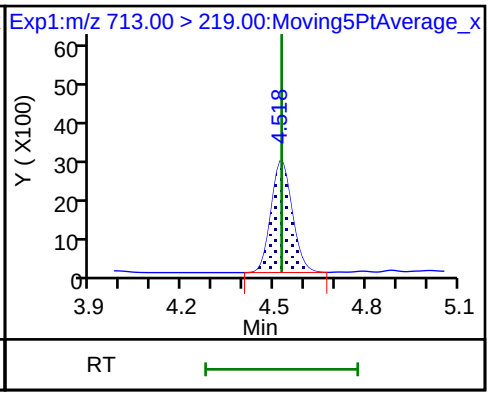
D 43 13C2-PFTeDA



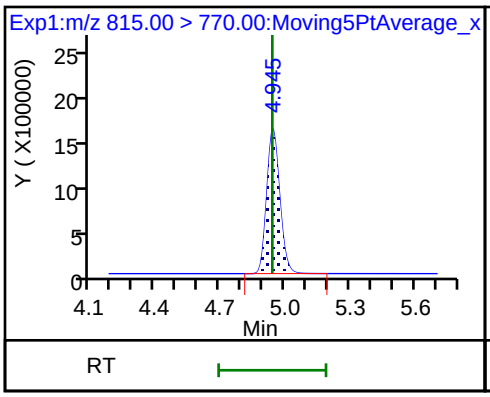
42 Perfluorotetradecanoic acid



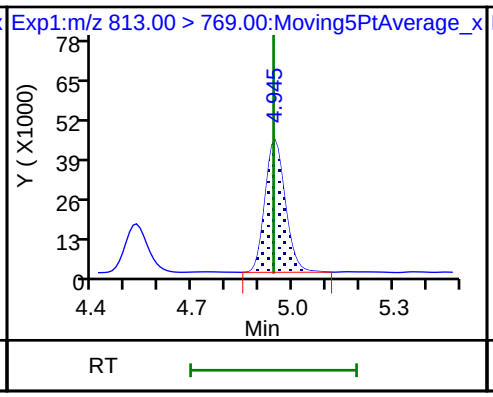
42 Perfluorotetradecanoic acid



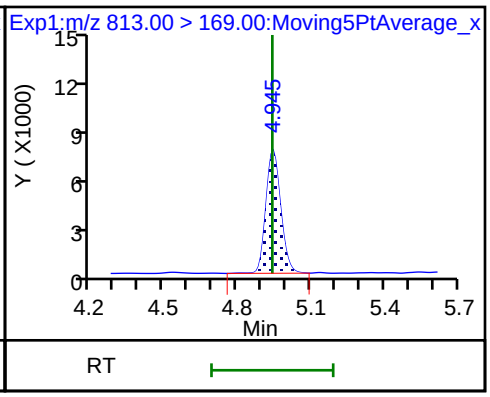
D 44 13C2-PFHxDA



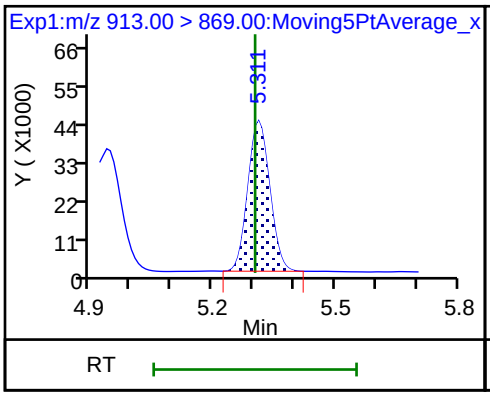
45 Perfluorohexadecanoic acid



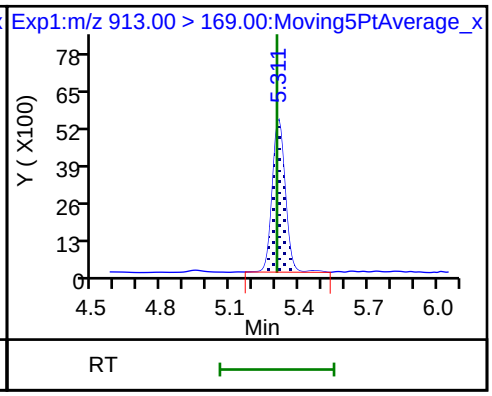
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

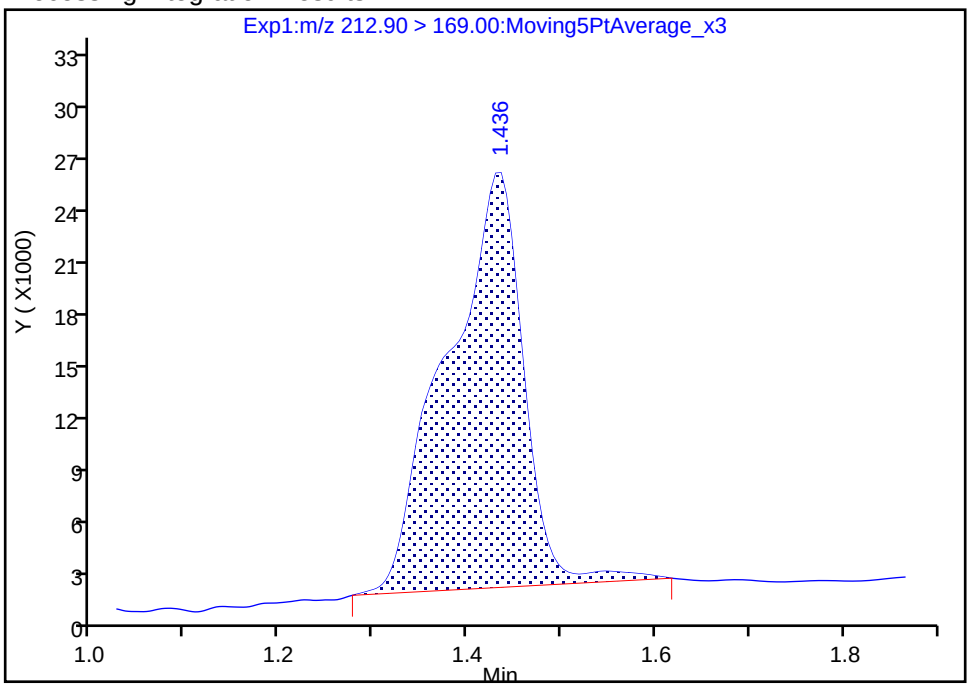
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

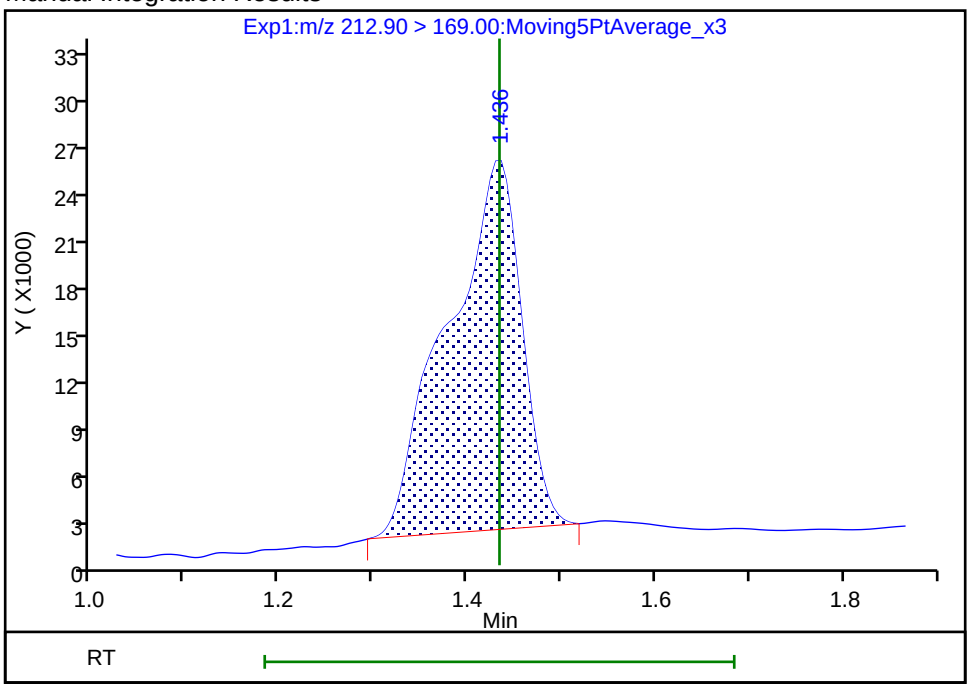
Processing Integration Results

RT: 1.44
Area: 134522
Amount: 0.053319
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 127400
Amount: 0.050907
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

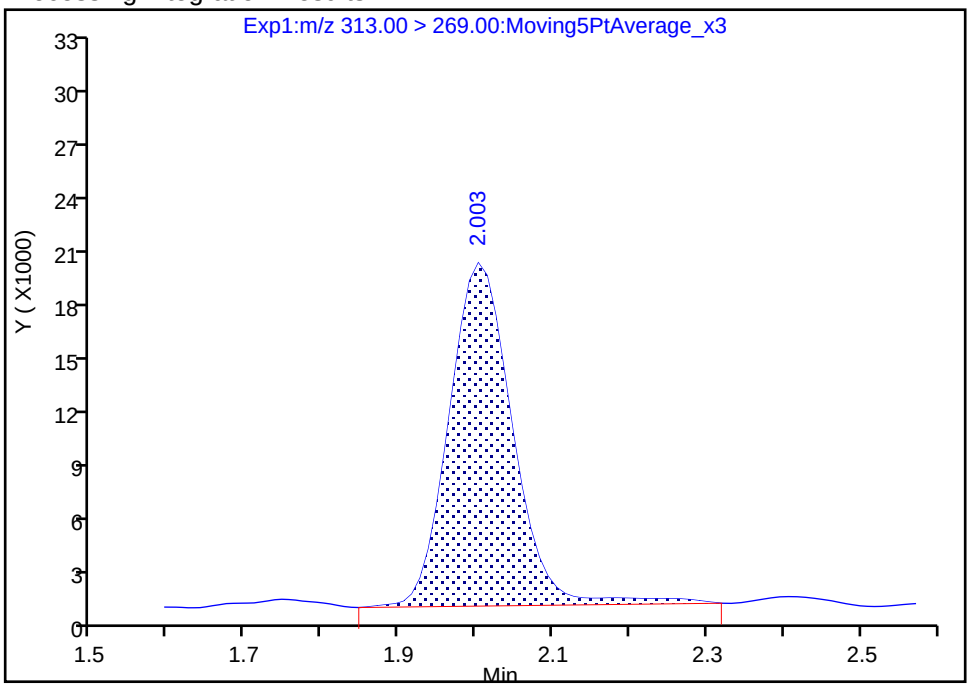
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

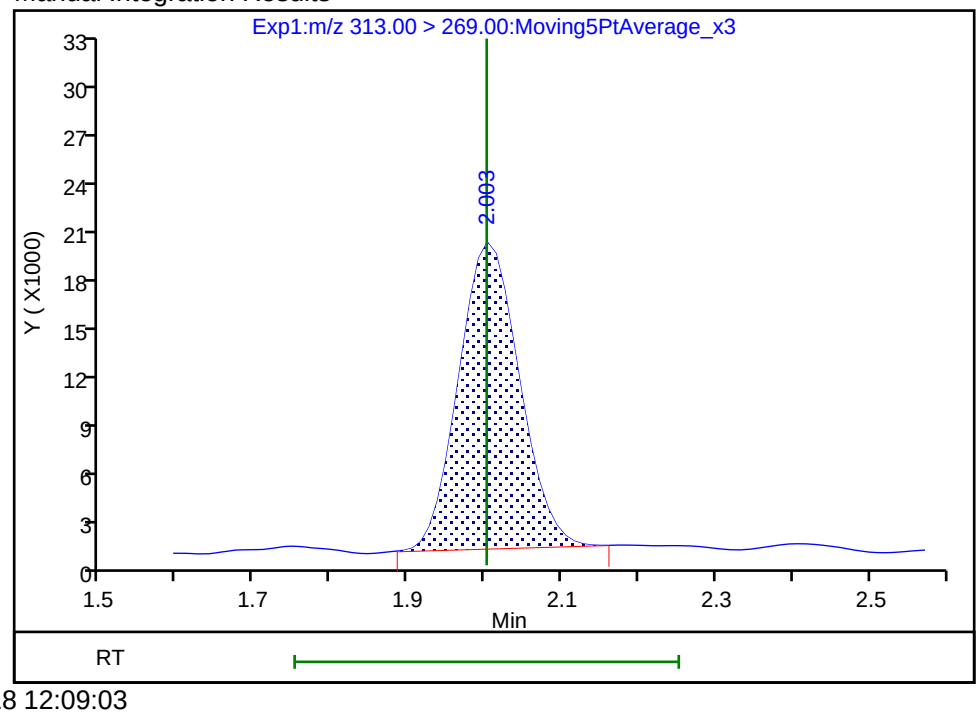
Processing Integration Results

RT: 2.00
Area: 109101
Amount: 0.054603
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 103001
Amount: 0.052004
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

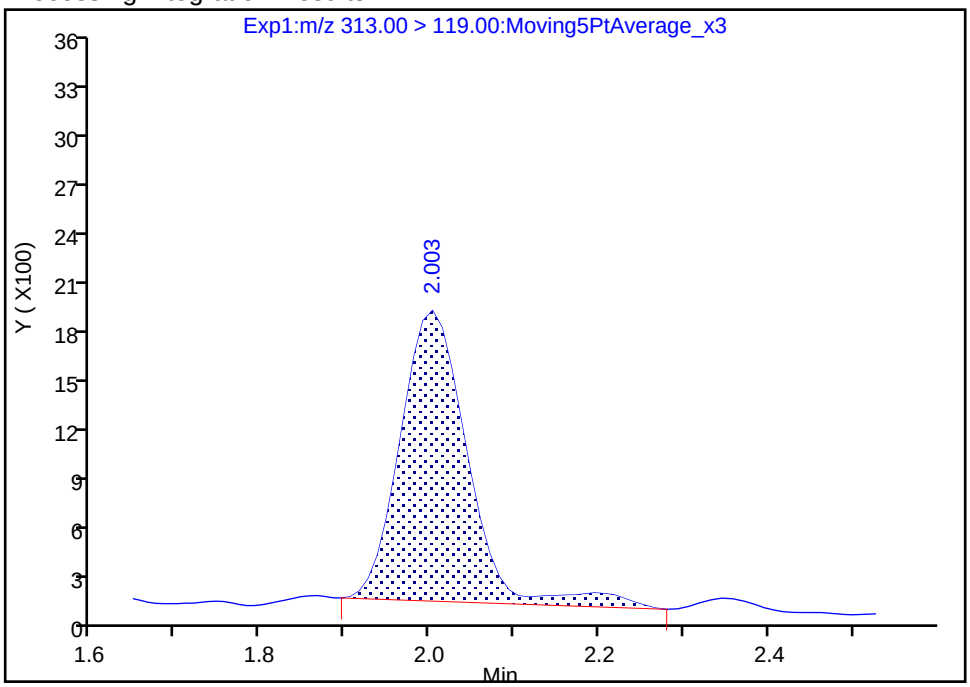
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

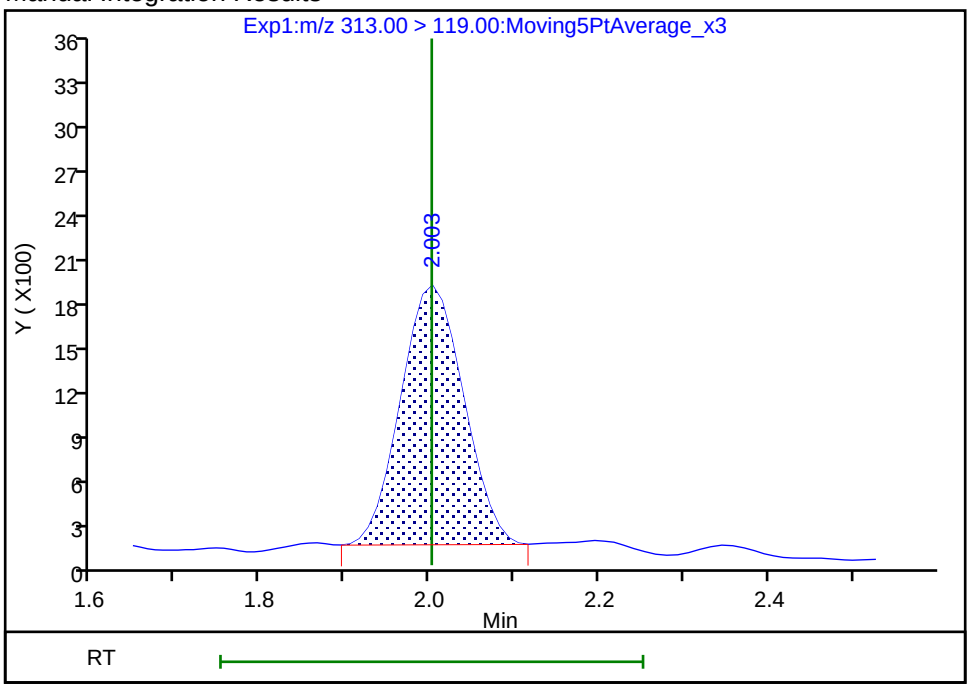
Processing Integration Results

RT: 2.00
Area: 9966
Amount: 0.054603
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 9150
Amount: 0.052004
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

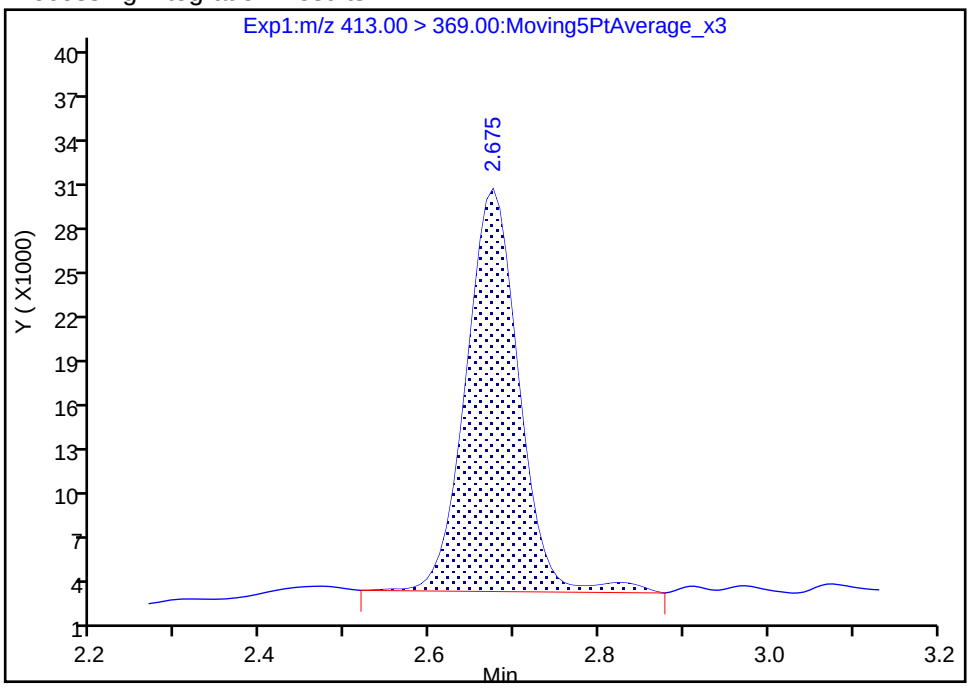
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

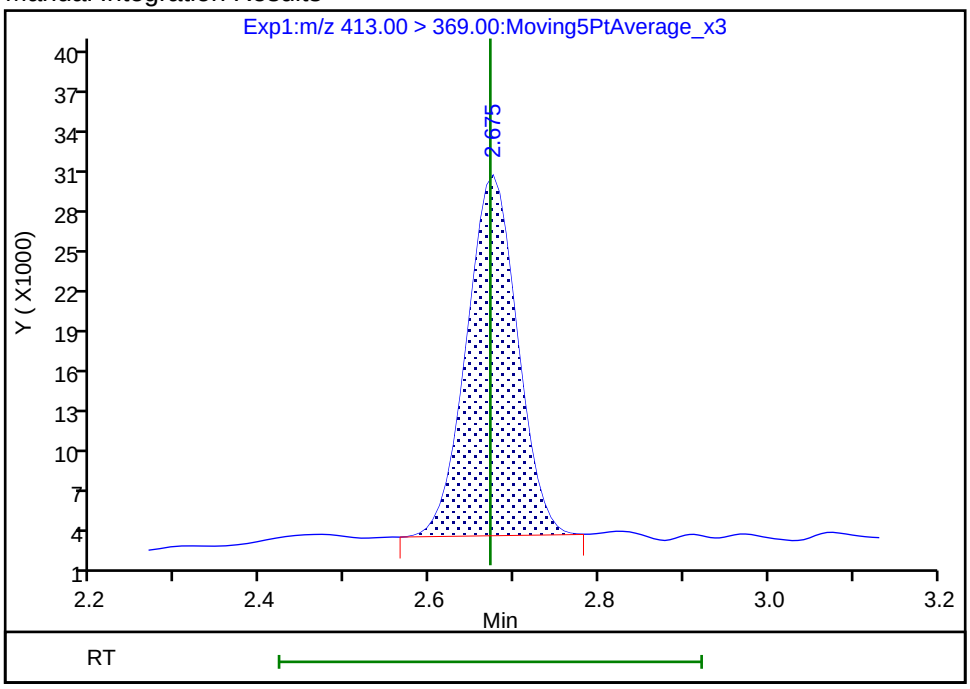
Processing Integration Results

RT: 2.67
Area: 116118
Amount: 0.055678
Amount Units: ng/ml



Manual Integration Results

RT: 2.67
Area: 110192
Amount: 0.053269
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

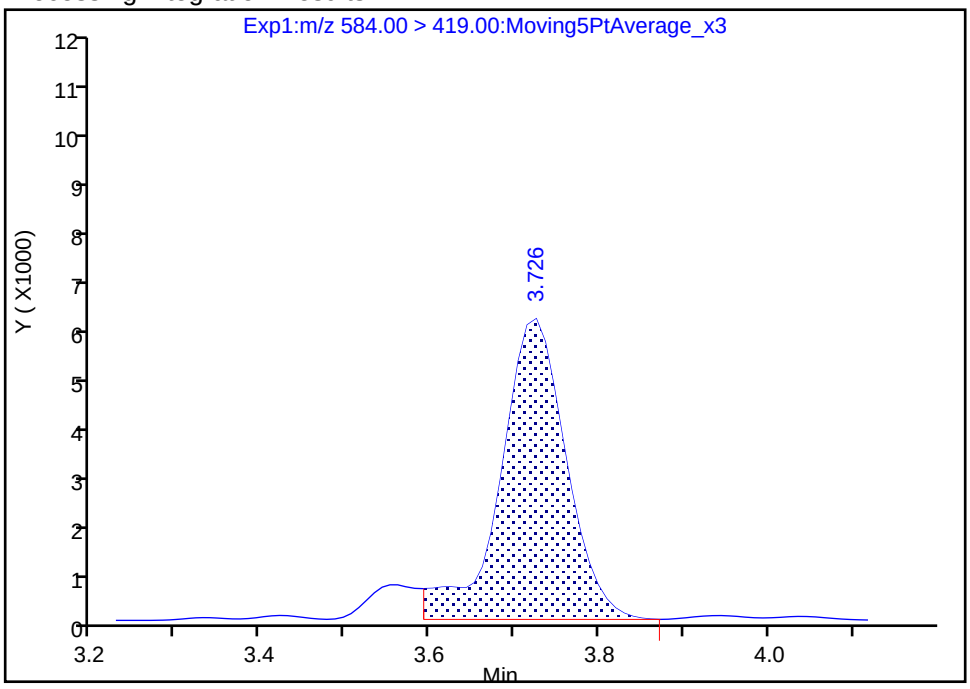
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

33 N-ethyl perfluorooctane sulfonamidoacetic ac, CAS: 2991-50-6

Signal: 1

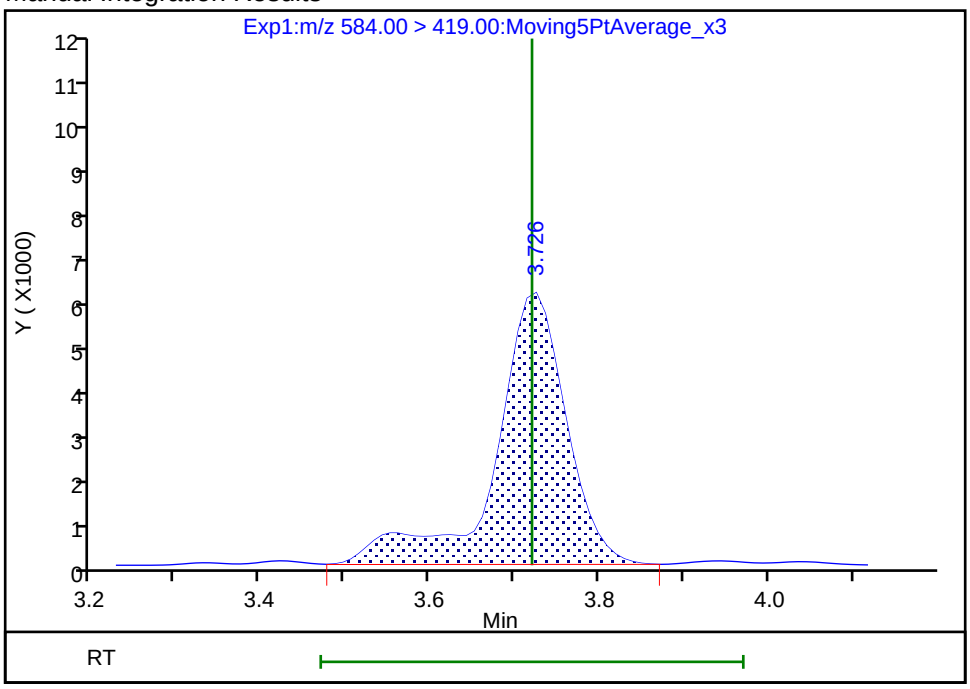
Processing Integration Results

RT: 3.73
Area: 32013
Amount: 0.046711
Amount Units: ng/ml



Manual Integration Results

RT: 3.73
Area: 34849
Amount: 0.050255
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:50
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2018 09:07:00 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:53 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:11:29

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.536	6069593	2.41		96.3	24438	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.434	0.002	1.004	597465	0.2409		96.4	221	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.716	-0.004	0.641	4600846	2.47		98.7	43321	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.721	1.719	0.002	1.005	519574	0.2371		94.8	386	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.756	0.001	0.658	101856	2.28		98.2	810	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.760	-0.003	1.000	743977	0.2240		101	4703	
298.90 > 99.00	1.757	1.760	-0.003	1.000	303027		2.46(1.25-3.74)	101	3833	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.966	-0.006	0.735	674185	2.35		101	8177	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.966	-0.006	1.116	147699	0.2150		92.1	8768	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	2.000	0.004	0.751	4899406	2.45		98.2	58275	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.004	2.002	0.002	1.000	466101	0.2336		93.4	925	
313.00 > 119.00	2.004	2.002	0.002	1.000	41725		11.17(5.03-15.10)	93.4	742	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.025	0.002	1.154	681882	0.2400		102	7541	
349.00 > 99.00	2.027	2.025	0.002	1.154	244725		2.79(1.36-4.07)	102	3947	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.785	458876	2.80		112	8477	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.099	-0.004	1.000	85883	0.2035		81.4	522	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.320	2.318	0.002	1.000	503626	0.2633		105	702	
363.00 > 169.00	2.320	2.318	0.002	1.000	177225		2.84(1.13-3.40)	105	1367	
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.318	0.002	0.870	4232132	2.39		95.5	50954	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.331	0.003	1.000	533777	0.2173		95.5	4053	
399.00 > 99.00	2.334	2.331	0.003	1.000	181606		2.94(1.50-4.49)	95.5	1406	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.874	5023662	2.30		97.4	38540	
65 Adona										
377.00 > 251.00	2.360	2.365	-0.005	0.777	1446461	0.2412		102	14748	
377.00 > 85.00	2.360	2.365	-0.005	0.777	843467		1.71(0.84-2.53)	102	11221	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.645	0.0	1.000	137712	0.2245		94.7	1060	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	929925	2.34		98.4	18344	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.670	-0.002	1.000	4350463	2.51		100	30312	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.671	-0.003	1.000	485826	0.2354		94.1	181	
413.00 > 169.00	2.668	2.671	-0.003	1.000	257288		1.89(0.84-2.52)	94.1	1573	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.671	-0.003		4551332	2.50			32491	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.676	2.678	-0.002	0.881	493106	0.2276		95.6	6702	
449.00 > 99.00	2.676	2.678	-0.002	0.881	133314		3.70(1.94-5.82)	95.6	3279	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.037	3.034	0.003	1.000	399282	0.2113		91.1	3863	M
499.00 > 99.00	3.037	3.034	0.003	1.000	97810		4.08(2.31-6.93)	91.1	2444	
D 19 13C5 PFNA										
468.00 > 423.00	3.037	3.034	0.003	1.138	3821005	2.59		104	43419	
D 18 13C4 PFOS										
503.00 > 80.00	3.037	3.034	0.003	1.138	3866373	2.48		104	37611	
20 Perfluorononanoic acid										
463.00 > 419.00	3.037	3.036	0.001	1.000	385530	0.2341		93.6	814	
463.00 > 169.00	3.037	3.036	0.001	1.000	94653		4.07(1.90-5.69)	93.6	2793	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.246	3.246	0.0	1.069	676150	0.2211		94.9	12683	
D 21 13C8 FOSA										
506.00 > 78.00	3.359	3.357	0.002	1.259	5465004	2.53		101	48663	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.359	3.358	0.001	1.000	543453	0.2507		100	12552	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.378	3.379	-0.001	1.112	305446	0.2323		96.8	5885	
549.00 > 99.00	3.378	3.379	-0.001	1.112	117853		2.59(1.33-3.97)	96.8	2241	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.378	3.382	-0.004	1.266	1048384	2.37		98.9	11749	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.387	3.383	0.004	1.003	137343	0.2375		99.2	3786	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.396	3.393	0.003	1.000	336739	0.2521		101	1182	
513.00 > 169.00	3.396	3.393	0.003	1.000	58028		5.80(2.36-7.09)	101	1846	
D 23 13C2 PFDA										
515.00 > 470.00	3.396	3.393	0.003	1.273	3204267	2.52		101	40323	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.546	3.543	0.003	1.329	1813682	2.42		96.7	30499	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.555	3.551	0.004	1.003	180847	0.2422		96.9	1615	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.707	3.702	0.005	1.221	266826	0.2292		95.1	6930	
599.00 > 99.00	3.707	3.702	0.005	1.221	86337		3.09(1.39-4.16)	95.1	4457	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.717	3.713	0.004	1.393	1875737	2.53		101	15918	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.728	3.721	0.007	1.003	207861	0.2269		90.8	745	
563.00 > 169.00	3.728	3.721	0.007	1.003	57585		3.61(2.12-6.36)	90.8	1966	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.717	3.721	-0.004	1.000	161316	0.2385		95.4	4318	
D 30 13C2 PFUnA										
565.00 > 520.00	3.717	3.721	-0.004	1.393	2693673	2.52		101	39348	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.884	3.879	0.005	1.279	1078557	0.2312		98.2	14180	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.017	4.016	0.001	1.000	308907	0.2462		98.5	323	
613.00 > 169.00	4.017	4.016	0.001	1.000	72977		4.23(2.13-6.40)	98.5	1424	
D 36 13C2 PFDoA										
615.00 > 570.00	4.017	4.016	0.001	1.505	2846137	2.48		99.4	15125	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.289	4.284	0.005	1.068	343817	0.2460		98.4	392	
663.00 > 169.00	4.280	4.284	-0.004	1.065	115023		2.99(1.25-3.76)	98.4	1894	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.520	4.524	-0.004	1.694	3422283	2.45		98.0	13893	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.520	4.524	-0.004	1.000	88194	0.2379		95.2	1314	
713.00 > 219.00	4.520	4.524	-0.004	1.000	64187		1.37(0.71-2.13)	95.2	1692	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.938	4.940	-0.002	1.851	6313503	2.44		97.7	13139	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.947	4.941	0.006	1.002	659470	0.2520		101	288	
813.00 > 169.00	4.947	4.941	0.006	1.002	110301		5.98(2.86-8.58)	101	906	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.305	5.302	0.003	1.074	714501	0.2430		97.2	231	
913.00 > 169.00	5.305	5.302	0.003	1.074	90949		7.86(3.83-11.48)	97.2	1008	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:55 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d

Injection Date: 05-Jul-2018 09:07:00 Instrument ID: A8_N

Lims ID: IC L3 Full

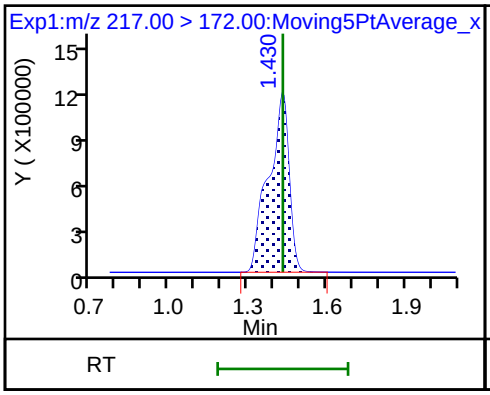
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

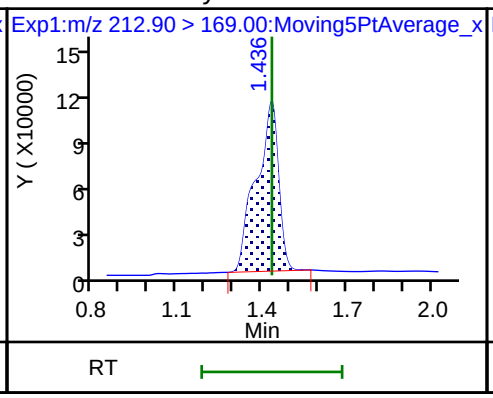
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

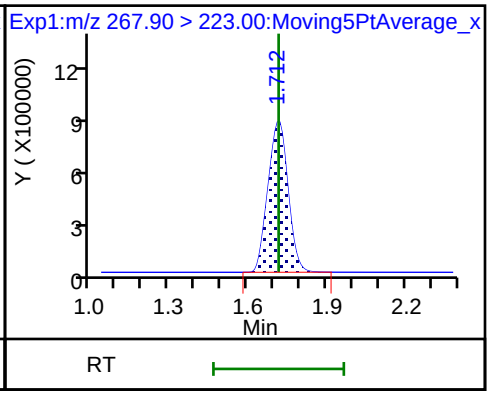
D 1 13C4 PFBA



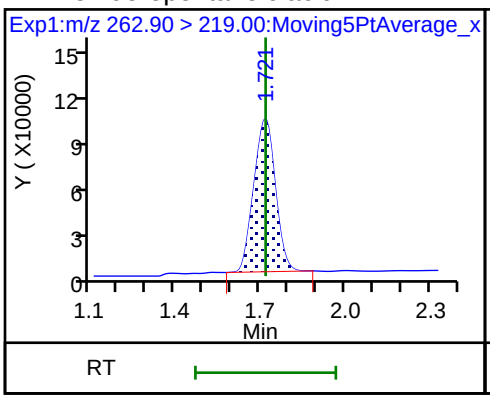
2 Perfluorobutyric acid



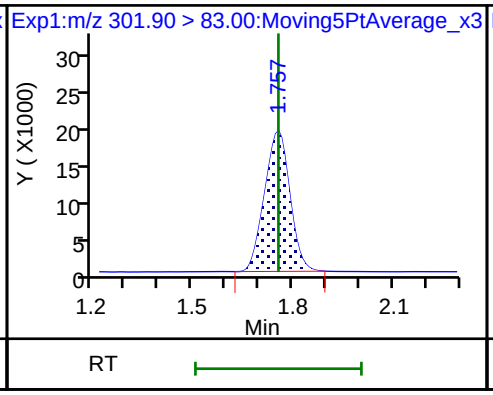
D 3 13C5-PFPeA



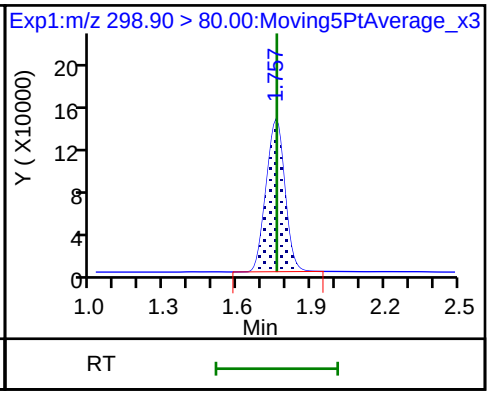
4 Perfluoropentanoic acid



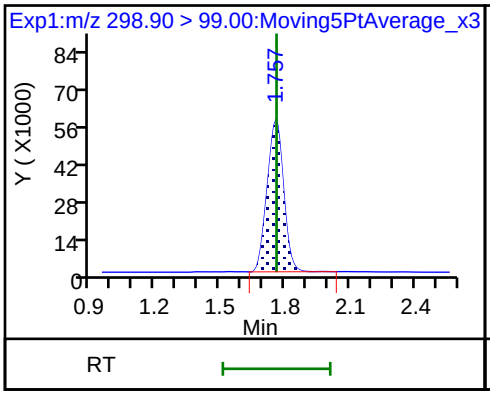
D 47 13C3-PFBS



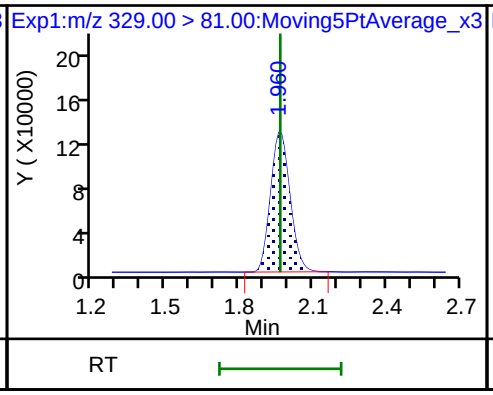
5 Perfluorobutanesulfonic acid



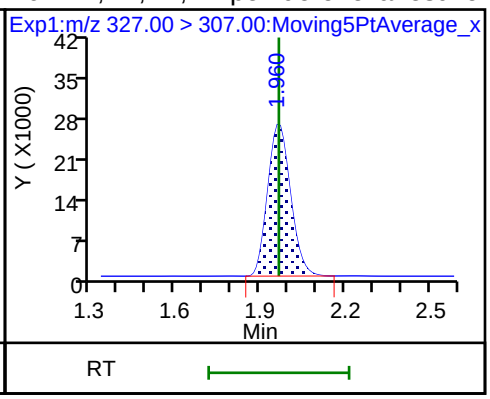
5 Perfluorobutanesulfonic acid



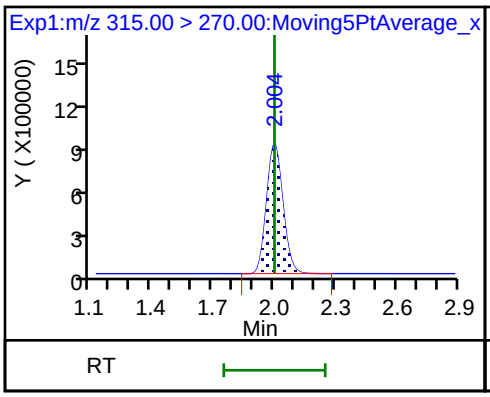
D 60 M2-4:2FTS



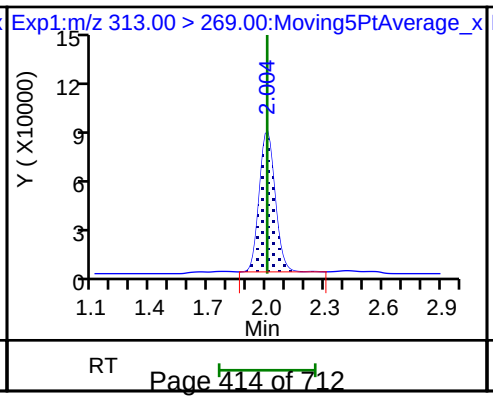
61 1H,1H,2H,2H-perfluorohexanesulfoni



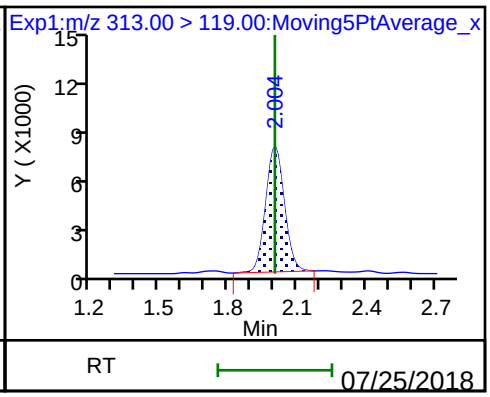
D 7 13C2 PFHxA



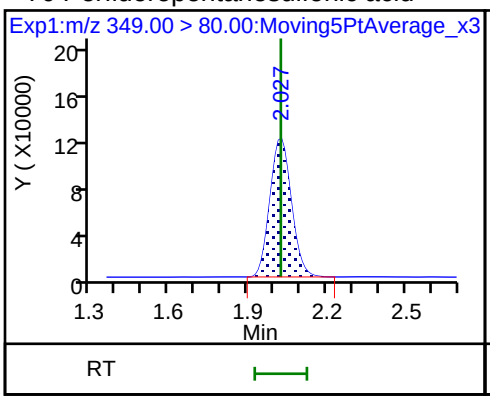
6 Perfluorohexanoic acid



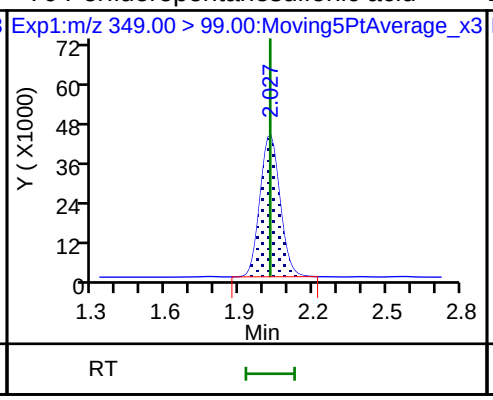
6 Perfluorohexanoic acid



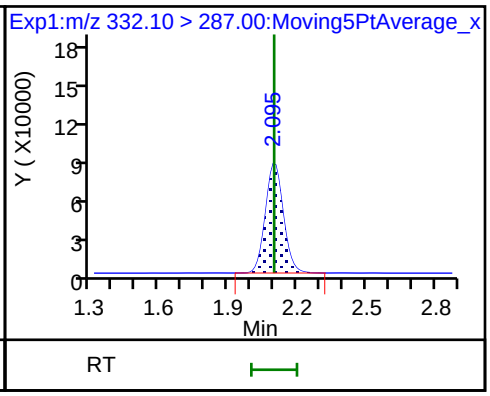
70 Perfluoropentanesulfonic acid



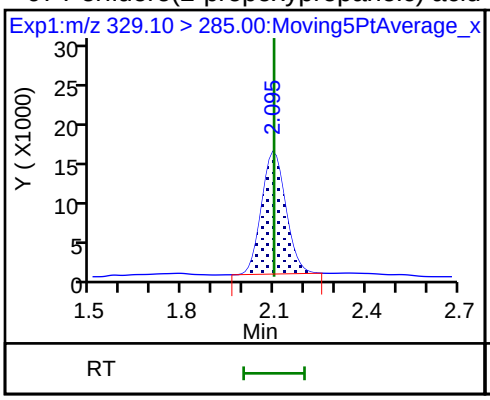
70 Perfluoropentanesulfonic acid



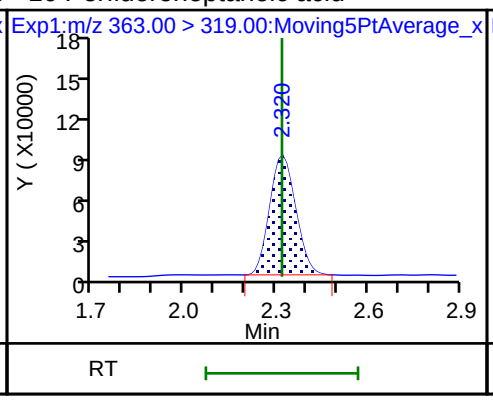
D 64 13C3 HFPO-DA



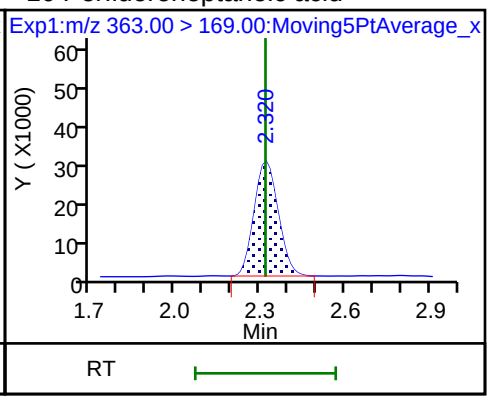
67 Perfluoro(2-propoxypropanoic) acid



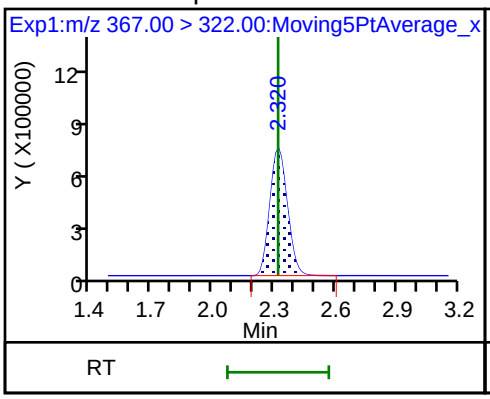
10 Perfluoroheptanoic acid



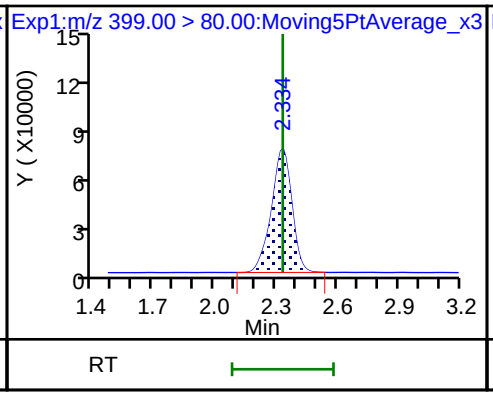
10 Perfluoroheptanoic acid



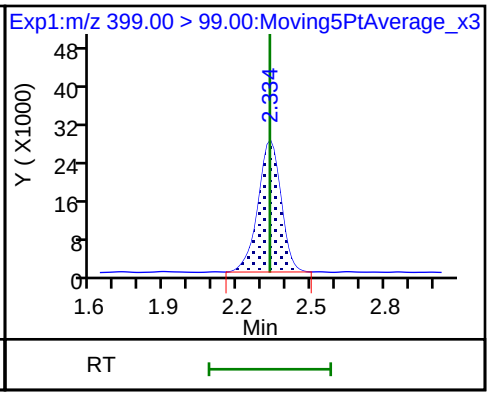
D 9 13C4-PFHpA



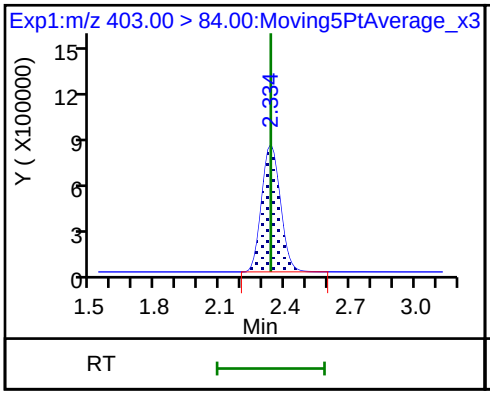
8 Perfluorohexanesulfonic acid



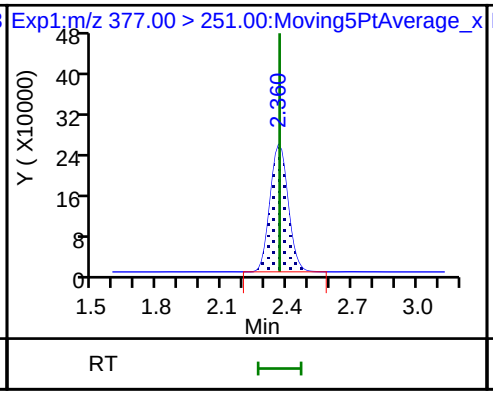
8 Perfluorohexanesulfonic acid



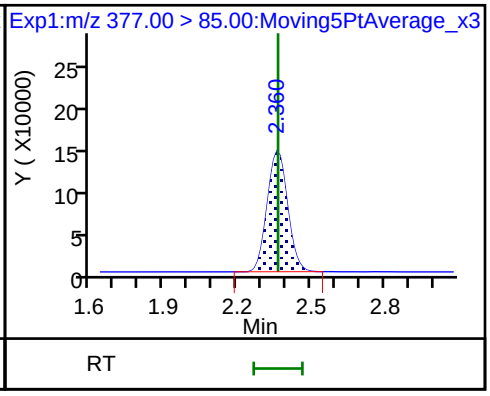
D 11 18O2 PFHxS



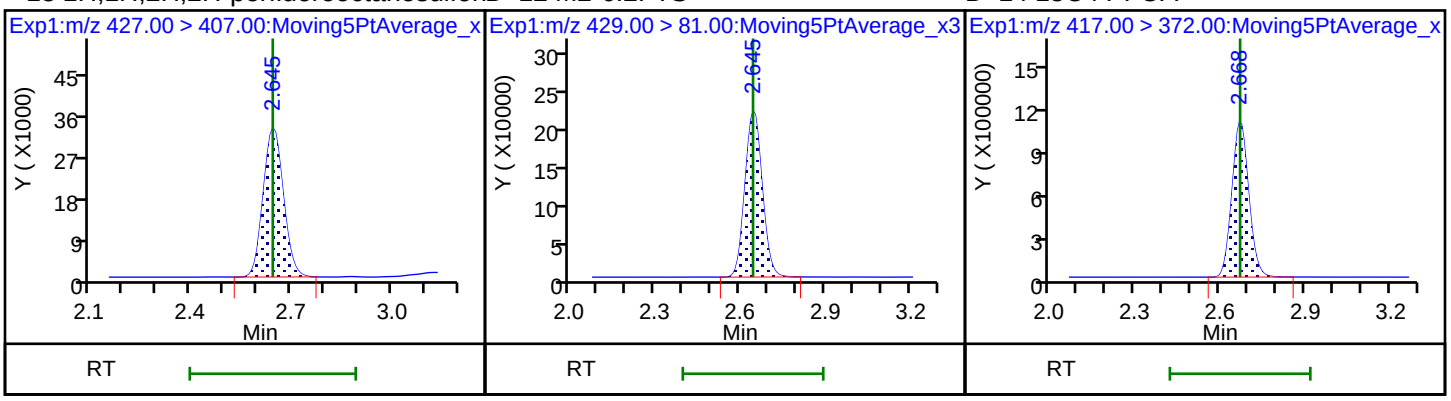
65 Adona



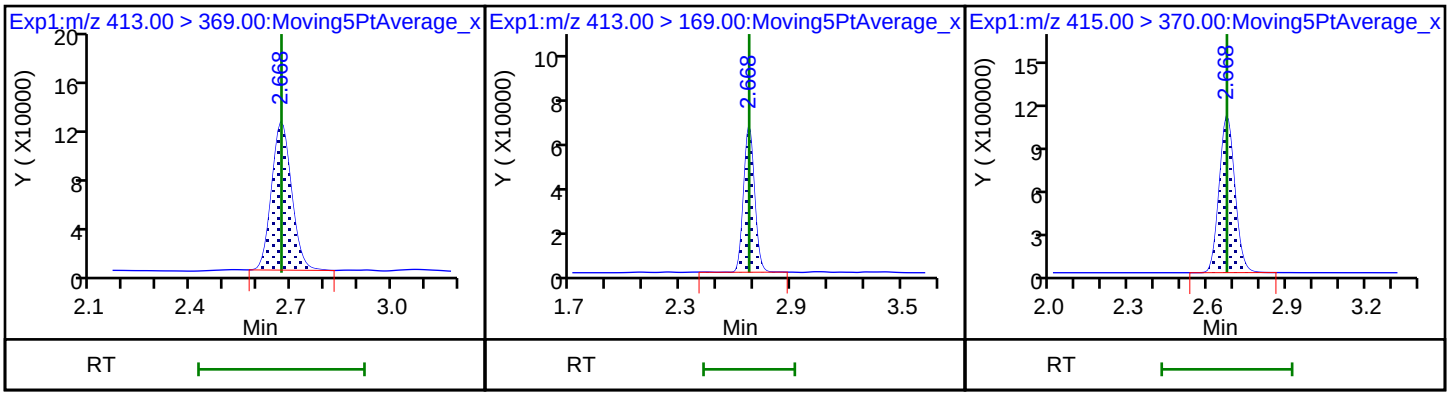
65 Adona



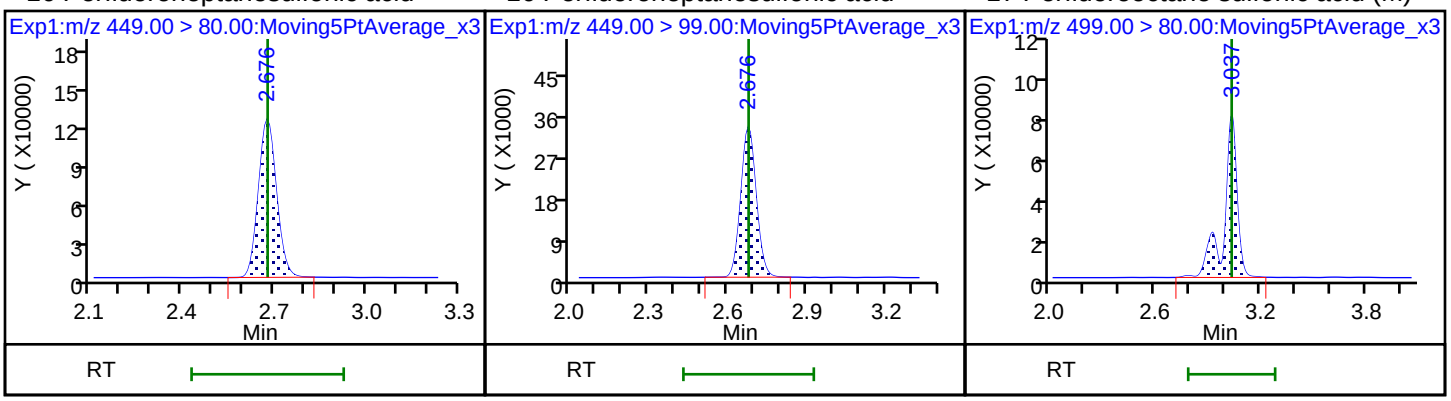
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



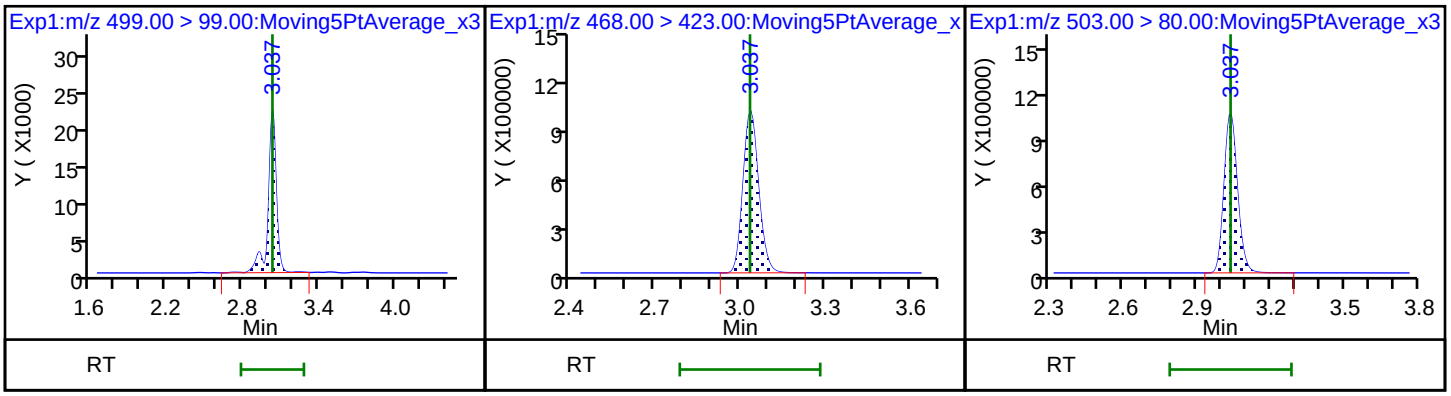
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



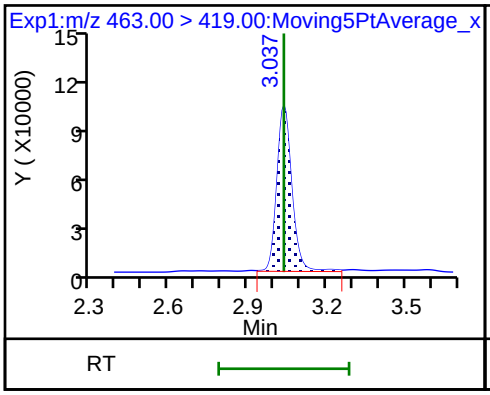
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid (M)



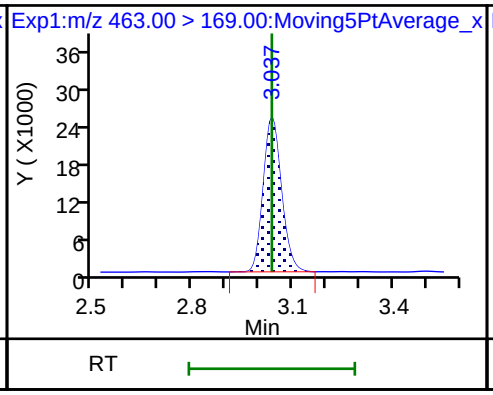
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



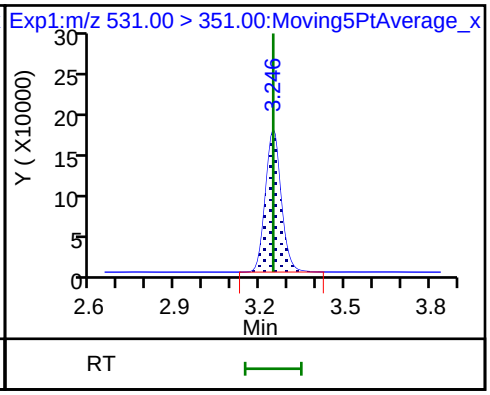
20 Perfluorononanoic acid



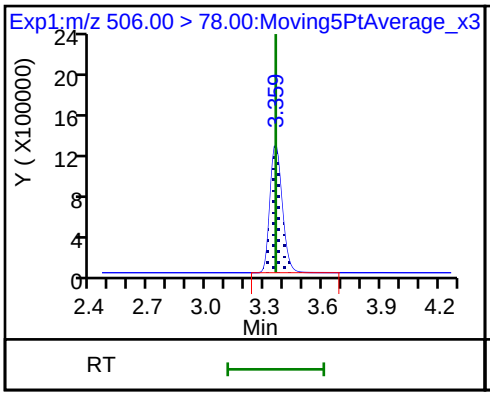
20 Perfluorononanoic acid



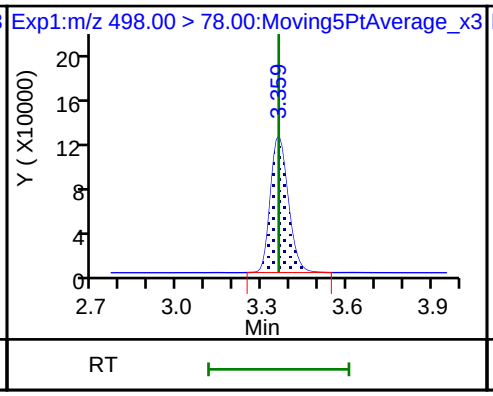
69 9-Chlorohexadecafluoro-3-oxanonane



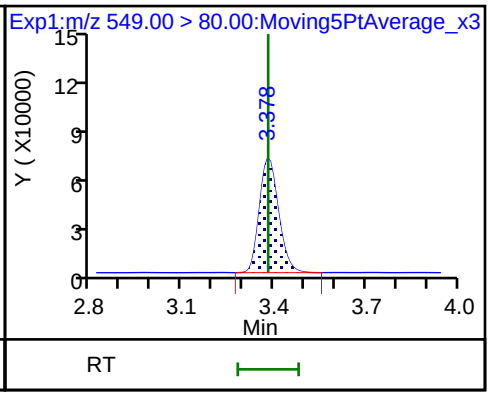
D 21 13C8 FOSA



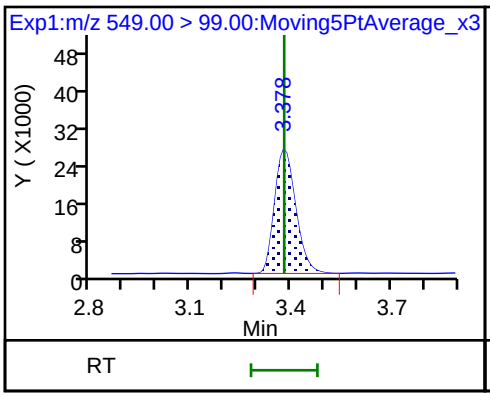
22 Perfluorooctane Sulfonamide



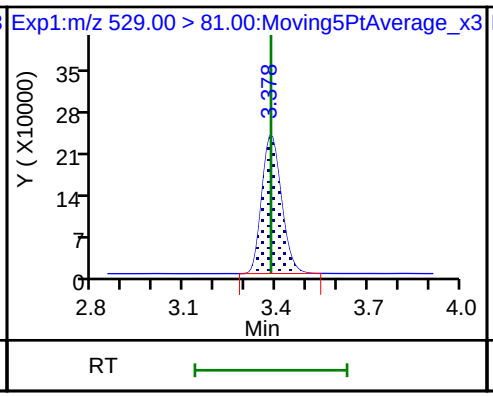
68 Perfluorononanesulfonic acid



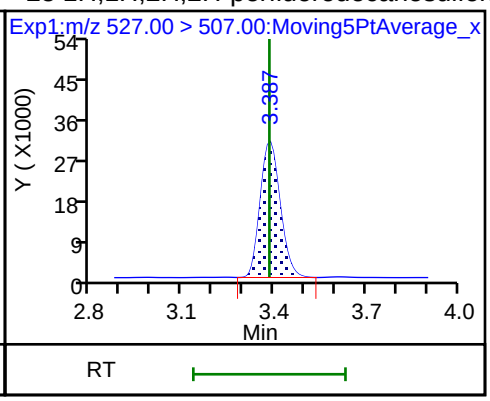
68 Perfluorononanesulfonic acid



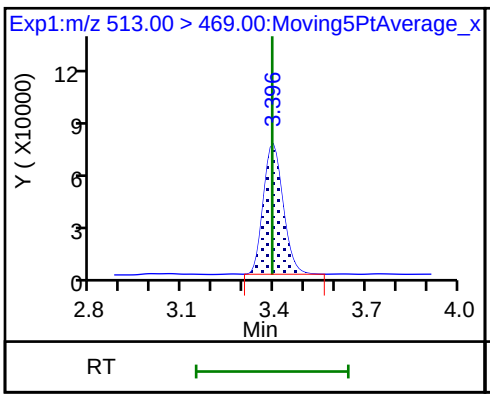
D 26 M2-8:2FTS



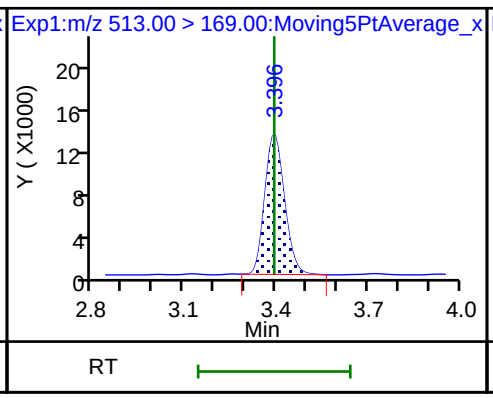
25 1H,1H,2H,2H-perfluorodecanesulfoni



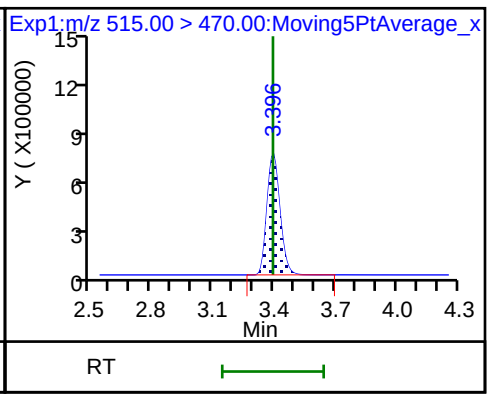
24 Perfluorodecanoic acid



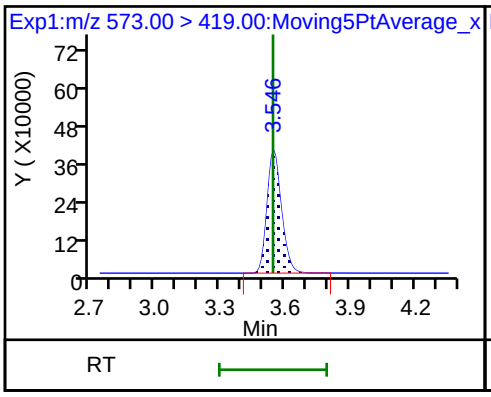
24 Perfluorodecanoic acid



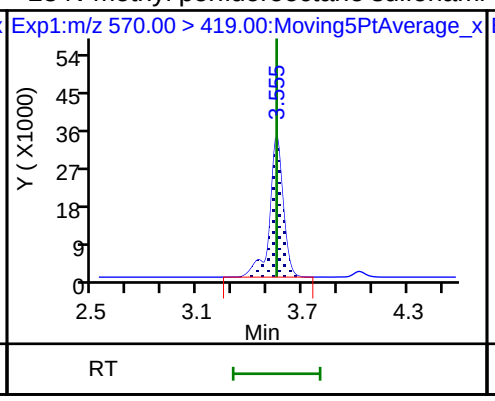
D 23 13C2 PFDA



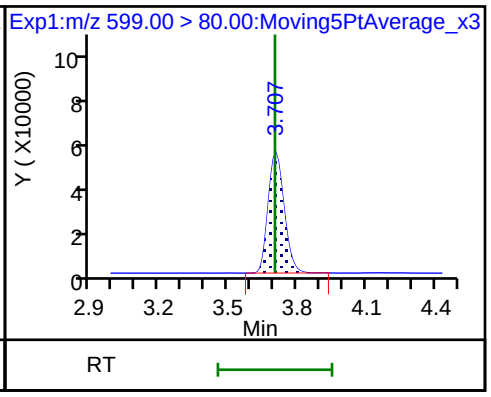
D 27 d3-NMeFOSAA



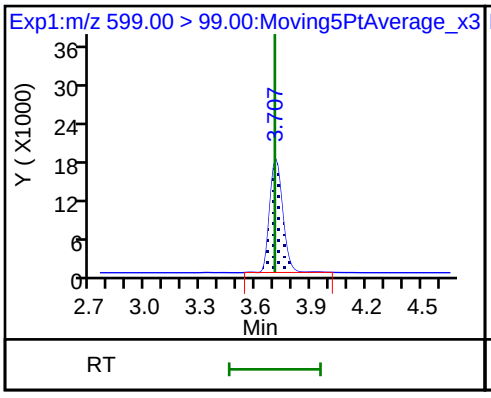
28 N-methyl perfluorooctane sulfonami



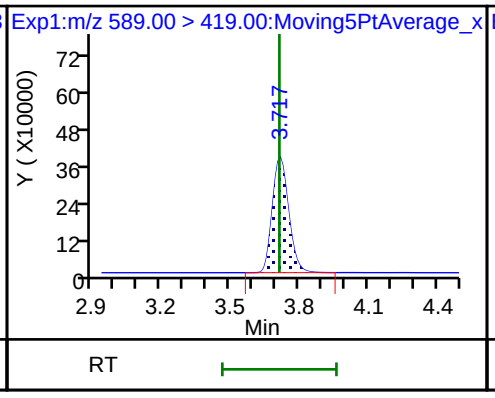
29 Perfluorodecane Sulfonic acid



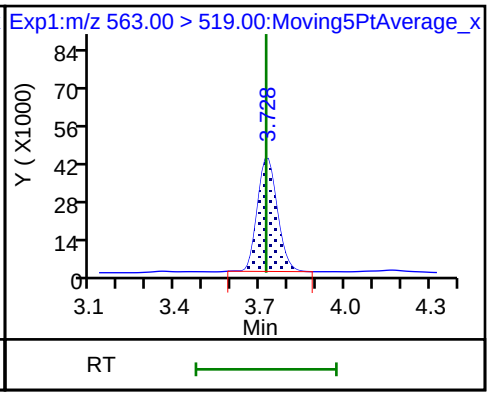
29 Perfluorodecane Sulfonic acid



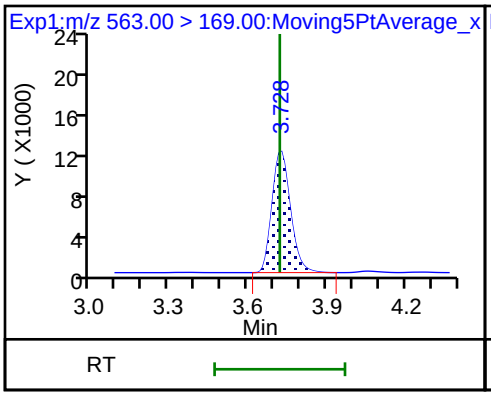
D 32 d5-NEtFOSAA



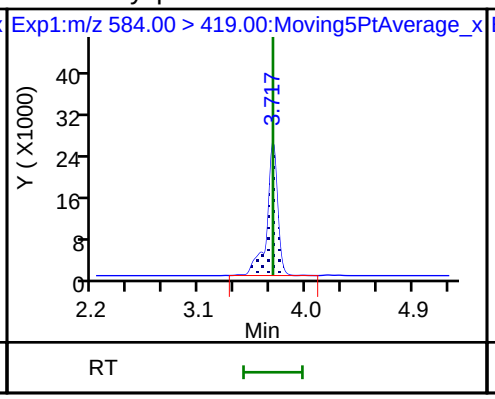
31 Perfluoroundecanoic acid



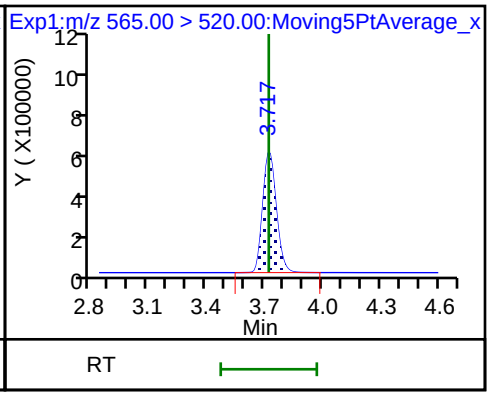
31 Perfluoroundecanoic acid



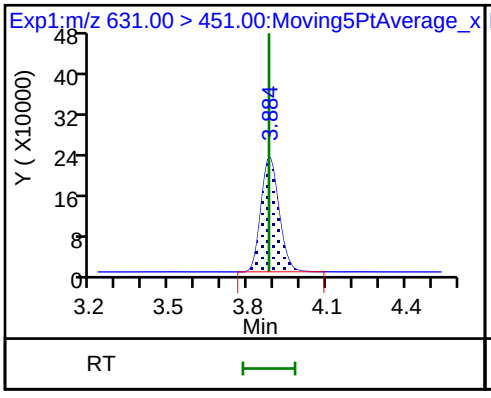
33 N-ethyl perfluorooctane sulfonamid



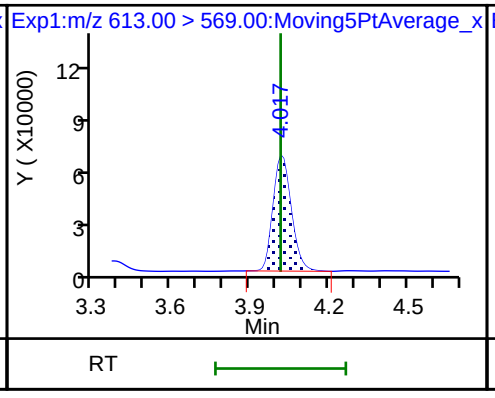
D 30 13C2 PFUnA



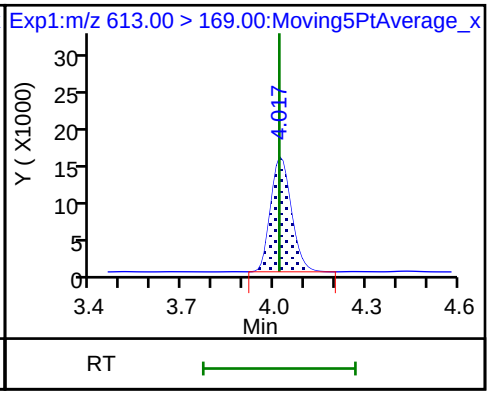
66 11-Chloroeicosafluoro-3-oxaundecan



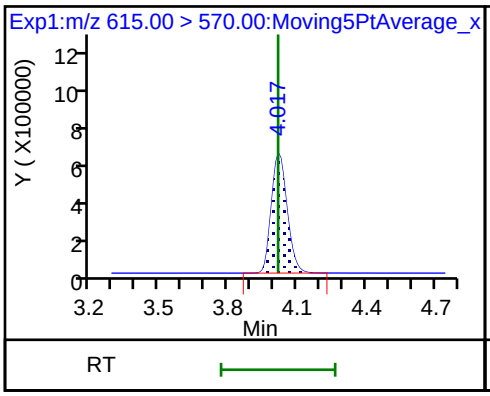
37 Perfluorododecanoic acid



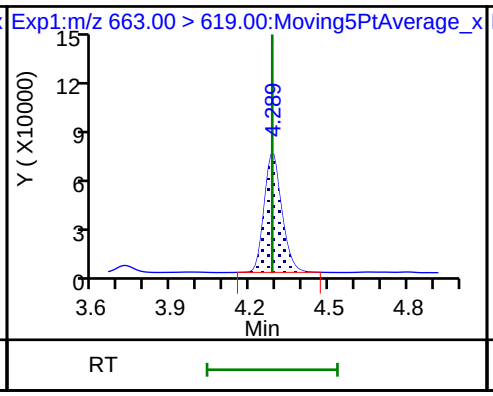
37 Perfluorododecanoic acid



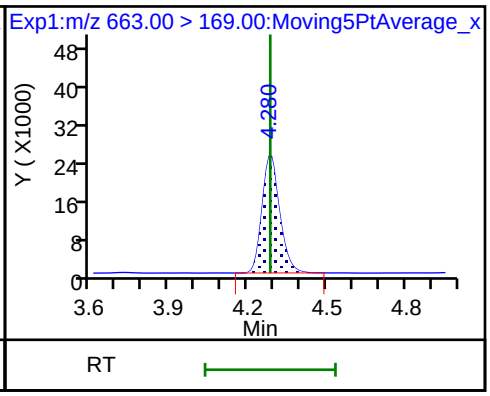
D 36 13C2 PFDoA



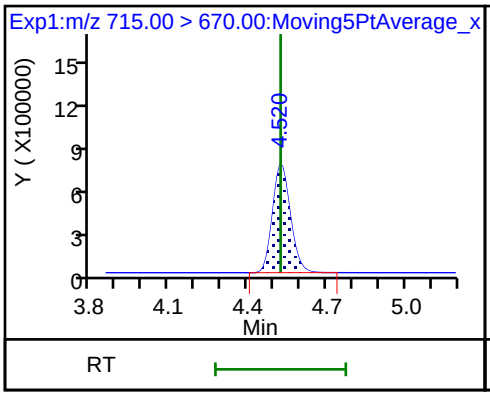
41 Perfluorotridecanoic acid



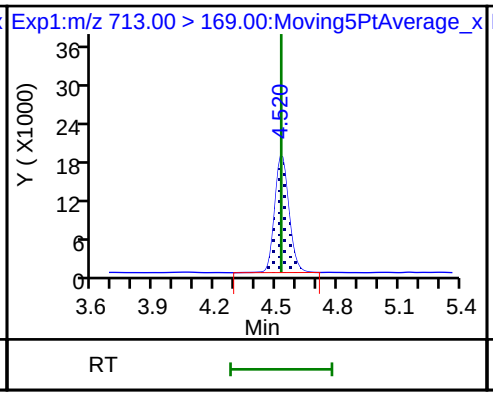
41 Perfluorotridecanoic acid



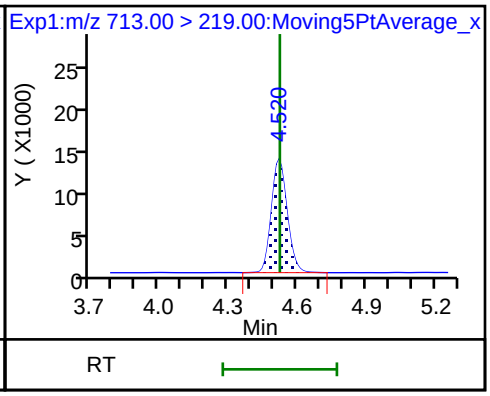
D 43 13C2-PFTeDA



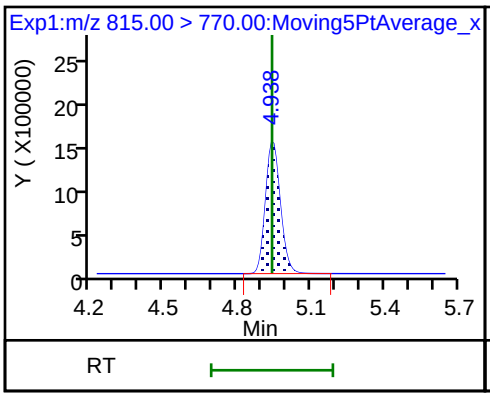
42 Perfluorotetradecanoic acid



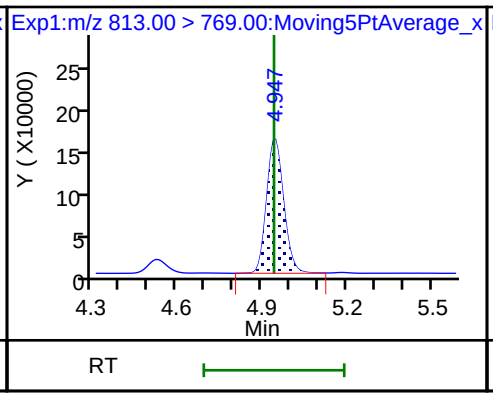
42 Perfluorotetradecanoic acid



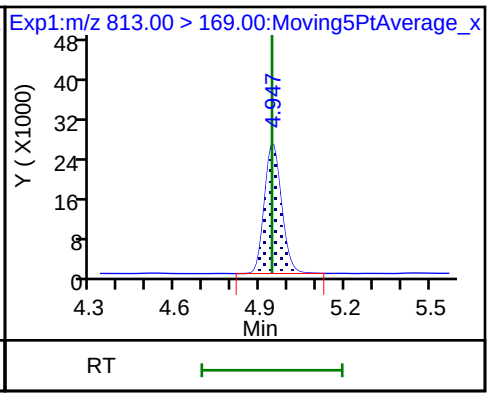
D 44 13C2-PFHxDA



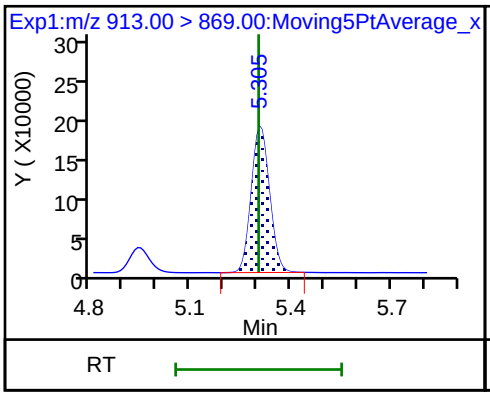
45 Perfluorohexadecanoic acid



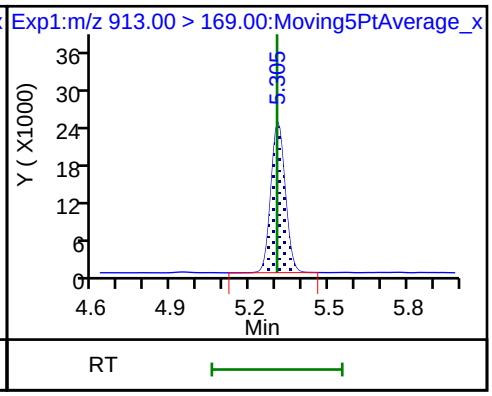
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

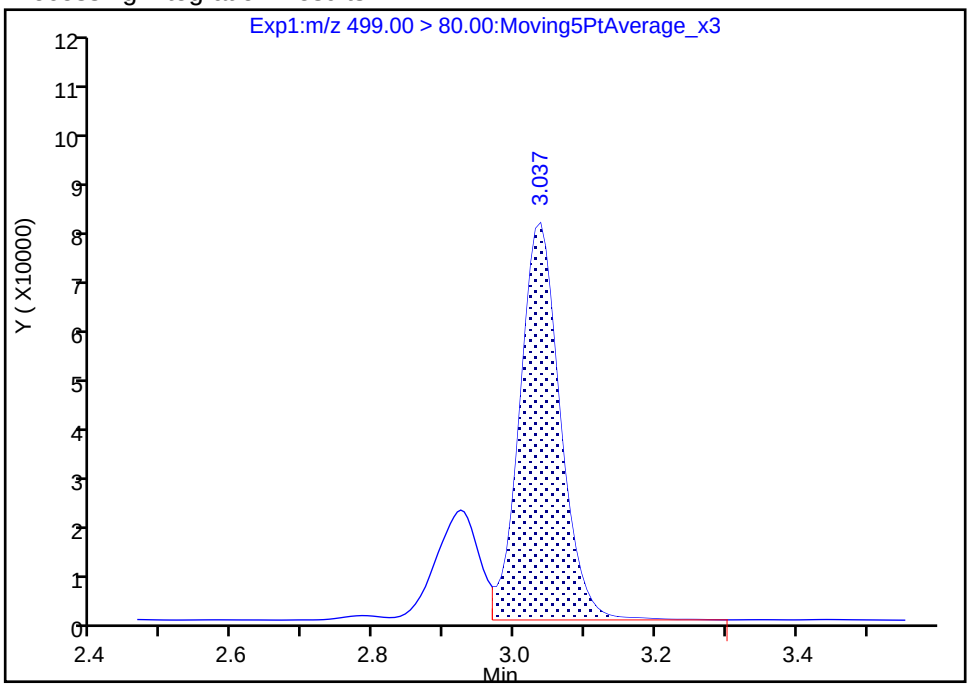
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d
Injection Date: 05-Jul-2018 09:07:00 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

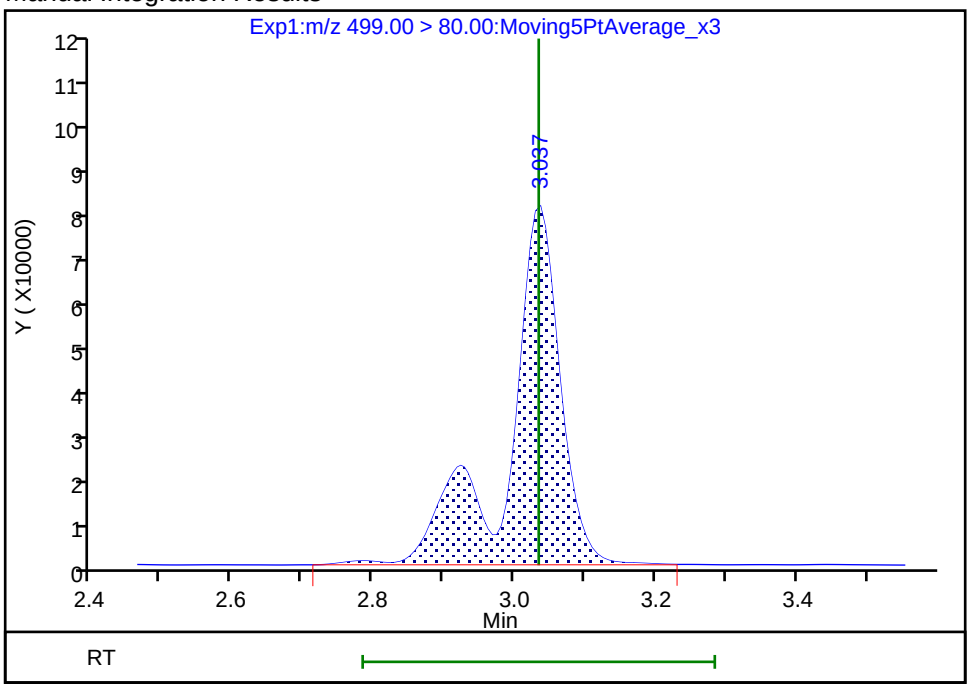
Processing Integration Results

RT: 3.04
Area: 306452
Amount: 0.172815
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 399282
Amount: 0.211296
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:10:40
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 05-Jul-2018 09:14:49 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:57 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:12:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.536	6162858	2.50		100	25458	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	2411886	0.9579		95.8	956	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.642	4603081	2.52		101	48086	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.725	1.719	0.006	1.005	2123200	0.9683		96.8	1472	
D 47 13C3-PFBS										
301.90 > 83.00	1.761	1.756	0.005	0.659	99704	2.28		98.3	811	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.000	2913073	0.8961		101	15641	
298.90 > 99.00	1.761	1.760	0.001	1.000	1199095		2.43(1.25-3.74)	101	12545	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.736	650969	2.32		99.4	7391	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.117	666805	0.99		106	29931	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.748	4790767	2.45		98.1	53217	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.002	0.009	1.006	1929591	0.9889		98.9	3402	
313.00 > 119.00	2.011	2.002	0.009	1.006	182684		10.56(5.03-15.10)	98.9	3630	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.033	2.025	0.008	1.154	2665768	0.9586		102	25939	
349.00 > 99.00	2.022	2.025	-0.003	1.148	967302		2.76(1.36-4.07)	102	15505	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.786	350748	2.19		87.7	6930	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	362111	1.12		112	2325	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.318	0.010	1.000	1926316	0.9529		95.3	2437	
363.00 > 169.00	2.329	2.318	0.010	1.000	763753		2.52(1.13-3.40)	95.3	4932	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.318	0.010	0.871	4473611	2.58		103	32752	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.342	2.331	0.011	1.000	2134265	0.8488		93.3	10378	
399.00 > 99.00	2.342	2.331	0.011	1.000	728591		2.93(1.50-4.49)	93.3	5501	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.333	0.009	0.876	5143052	2.41		102	45703	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.780	5921462	1.04		110	37185	
377.00 > 85.00	2.368	2.365	0.003	0.780	3421126		1.73(0.84-2.53)	110	33302	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.650	2.645	0.005	1.000	579722	0.9188		96.9	4365	
D 12 M2-6:2FTS										
429.00 > 81.00	2.650	2.645	0.005	0.992	956602	2.46		103	13564	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.670	0.003	1.000	4233363	2.49		99.7	44657	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.671	0.002	1.000	2047028	1.02		102	882	
413.00 > 169.00	2.673	2.671	0.002	1.000	1034448		1.98(0.84-2.52)	102	5173	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.671	0.002		4451960	2.50			28463	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.680	2.678	0.002	0.882	2001929	0.9719		102	17485	
449.00 > 99.00	2.680	2.678	0.002	0.882	513009		3.90(1.94-5.82)	102	10258	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.038	3.034	0.004	1.000	1620324	0.9020		97.2	9590	M
499.00 > 99.00	3.038	3.034	0.004	1.000	365112		4.44(2.31-6.93)	97.2	7492	
D 19 13C5 PFNA										
468.00 > 423.00	3.038	3.034	0.004	1.137	3628571	2.51		101	38018	
D 18 13C4 PFOS										
503.00 > 80.00	3.038	3.034	0.004	1.137	3675491	2.41		101	21579	
20 Perfluorononanoic acid										
463.00 > 419.00	3.038	3.036	0.002	1.000	1530697	0.9787		97.9	2765	
463.00 > 169.00	3.038	3.036	0.002	1.000	385539		3.97(1.90-5.69)	97.9	12335	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.246	0.001	1.069	2784556	0.9578		103	28106	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.357	0.004	1.257	5353484	2.53		101	38452	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.358	0.003	1.000	2119612	1.00		99.8	30500	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.380	3.379	0.001	1.113	1205401	0.9646		100	34326	
549.00 > 99.00	3.380	3.379	0.001	1.113	478001		2.52(1.33-3.97)	100	9888	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.389	3.382	0.007	1.268	1068438	2.47		103	23819	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.389	3.383	0.006	1.000	516484	0.8763		91.5	8828	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.398	3.393	0.005	1.000	1293758	0.9669		96.7	4885	
513.00 > 169.00	3.398	3.393	0.005	1.000	234842		5.51(2.36-7.09)	96.7	10444	
D 23 13C2 PFDA										
515.00 > 470.00	3.398	3.393	0.005	1.271	3209160	2.58		103	31420	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.548	3.543	0.005	1.327	1791176	2.44		97.7	24283	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.557	3.551	0.006	1.003	709542	0.9623		96.2	4838	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.709	3.702	0.007	1.221	1041333	0.9411		97.6	26968	
599.00 > 99.00	3.709	3.702	0.007	1.221	342058		3.04(1.39-4.16)	97.6	8945	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.719	3.713	0.006	1.391	1938000	2.67		107	10116	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.721	-0.002	1.000	836804	0.9601		96.0	3323	
563.00 > 169.00	3.719	3.721	-0.002	1.000	231655		3.61(2.12-6.36)	96.0	9431	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.721	-0.002	1.000	647181	0.9259		92.6	12308	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.721	-0.002	1.391	2563234	2.45		98.0	22804	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.877	3.879	-0.002	1.276	4506577	1.02		108	31369	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.020	4.016	0.004	1.000	1220093	0.9749		97.5	1361	
613.00 > 169.00	4.020	4.016	0.004	1.000	290513		4.20(2.13-6.40)	97.5	6141	
D 36 13C2 PFDoA										
615.00 > 570.00	4.020	4.016	0.004	1.504	2839357	2.53		101	13083	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.282	4.284	-0.002	1.065	1358716	0.9746		97.5	1492	
663.00 > 169.00	4.282	4.284	-0.002	1.065	413195		3.29(1.25-3.76)	97.5	5611	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.522	4.524	-0.002	1.692	3418156	2.50		100	13276	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.522	4.524	-0.002	1.000	342607	0.9254		92.5	5140	
713.00 > 219.00	4.522	4.524	-0.002	1.000	251296		1.36(0.71-2.13)	92.5	5866	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.940	0.0	1.848	6551380	2.59		104	12824	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.940	4.941	-0.001	1.000	2527986	0.99		99.3	1070	
813.00 > 169.00	4.940	4.941	-0.001	1.000	431678		5.86(2.86-8.58)	99.3	2973	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.300	5.302	-0.002	1.073	3031740	0.99		99.4	969	
913.00 > 169.00	5.300	5.302	-0.002	1.073	377149		8.04(3.83-11.48)	99.4	4016	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d

Injection Date: 05-Jul-2018 09:14:49 Instrument ID: A8_N

Lims ID: IC L4 Full

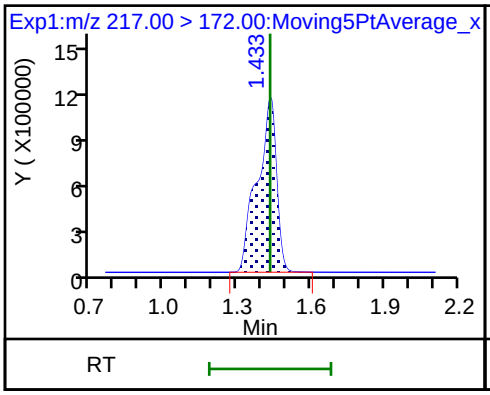
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

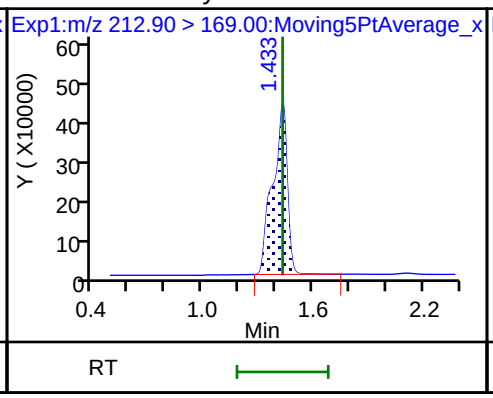
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

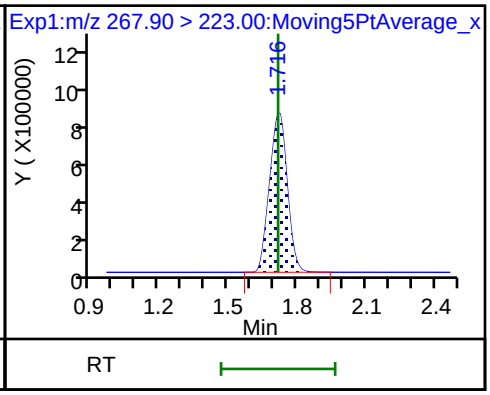
D 1 13C4 PFBA



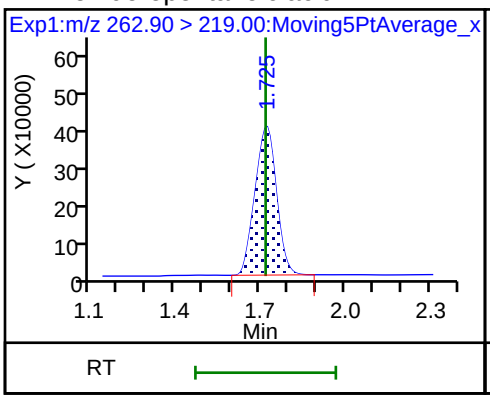
2 Perfluorobutyric acid



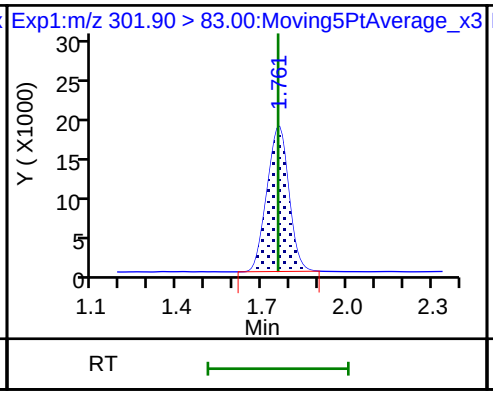
D 3 13C5-PFPeA



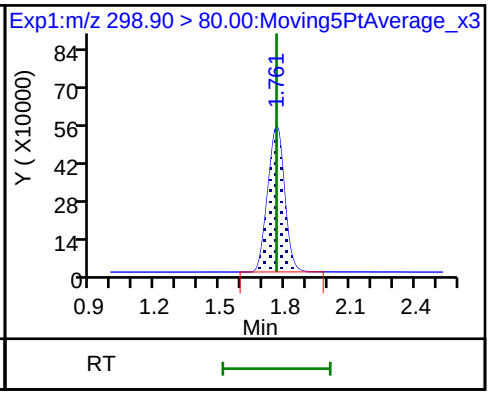
4 Perfluoropentanoic acid



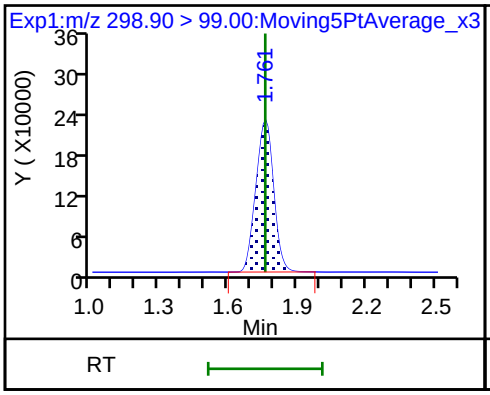
D 47 13C3-PFBS



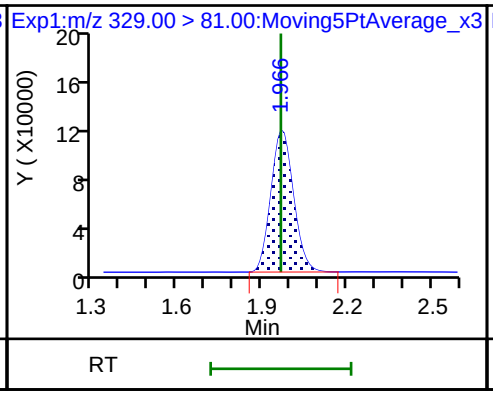
5 Perfluorobutanesulfonic acid



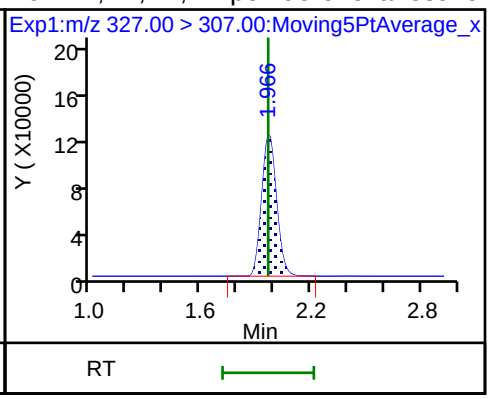
5 Perfluorobutanesulfonic acid



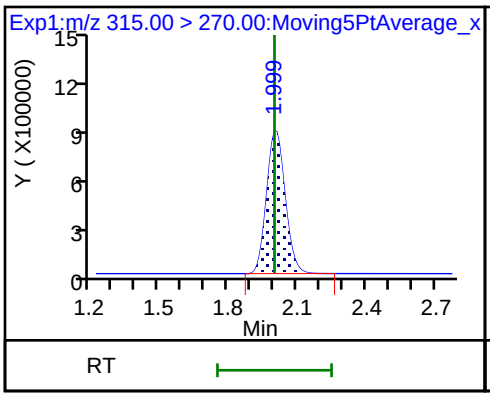
D 60 M2-4:2FTS



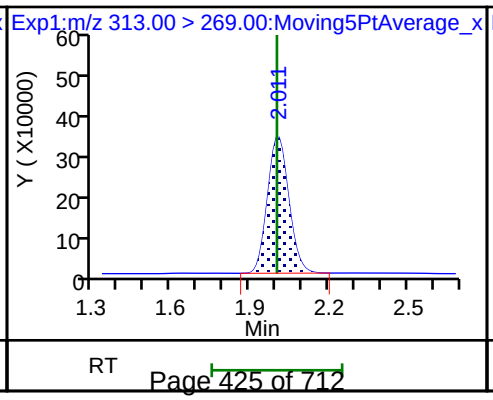
61 1H,1H,2H,2H-perfluorohexanesulfoni



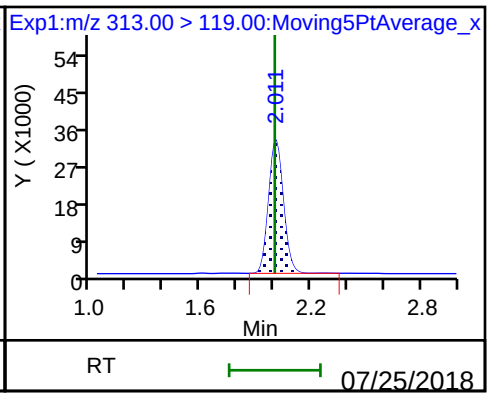
D 7 13C2 PFHxA



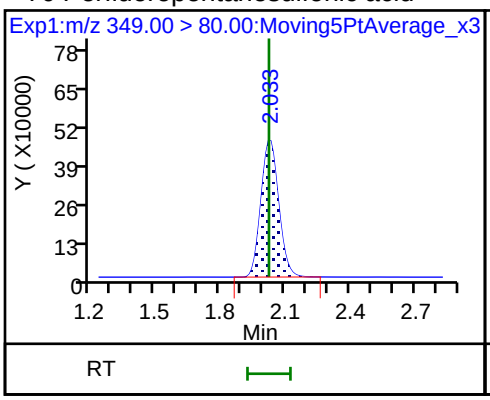
6 Perfluorohexanoic acid



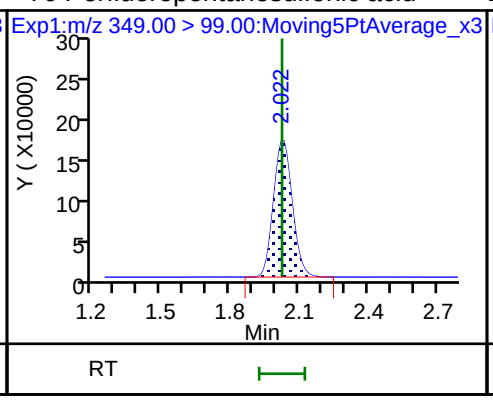
6 Perfluorohexanoic acid



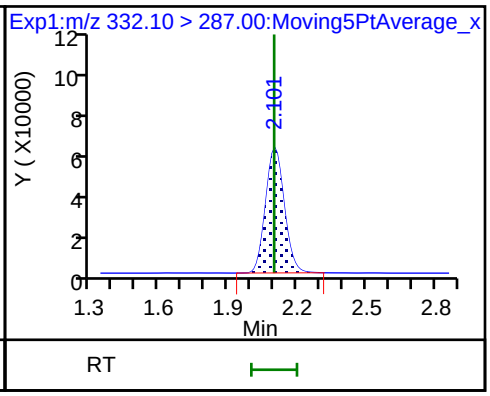
70 Perfluoropentanesulfonic acid



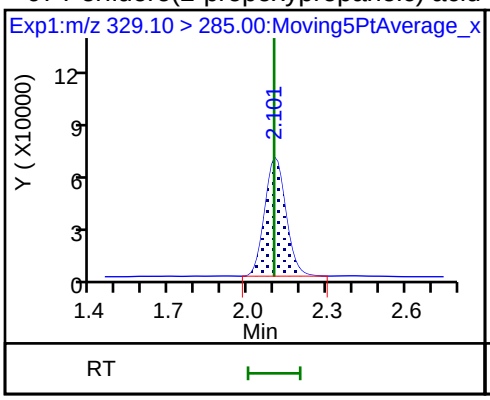
70 Perfluoropentanesulfonic acid



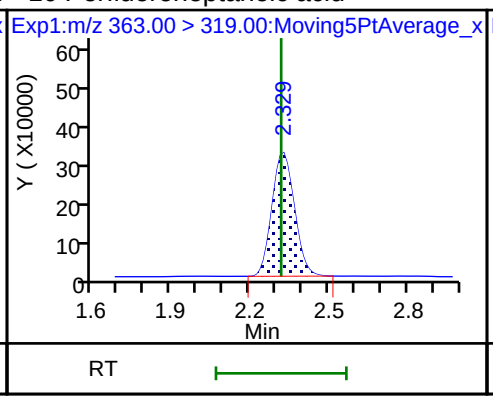
D 64 13C3 HFPO-DA



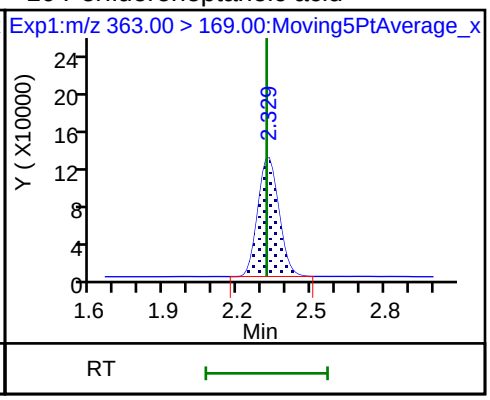
67 Perfluoro(2-propoxypropanoic) acid



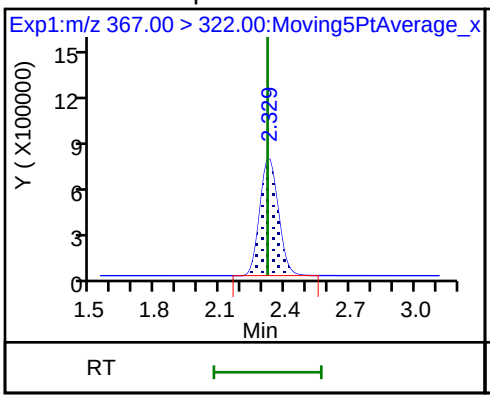
10 Perfluoroheptanoic acid



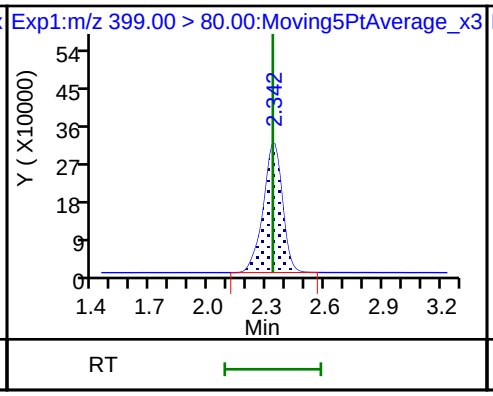
10 Perfluoroheptanoic acid



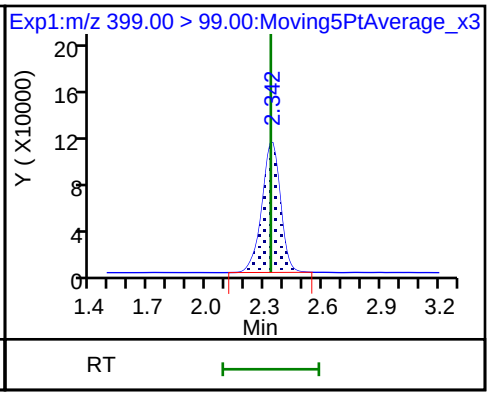
D 9 13C4-PFHpA



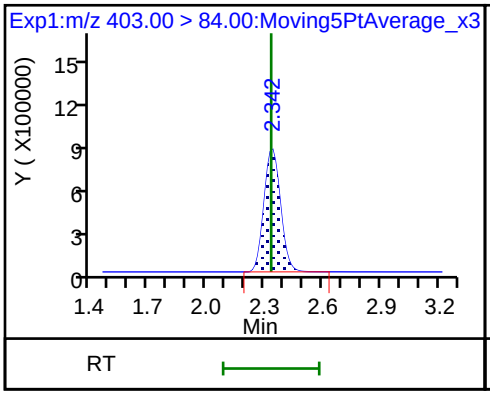
8 Perfluorohexanesulfonic acid



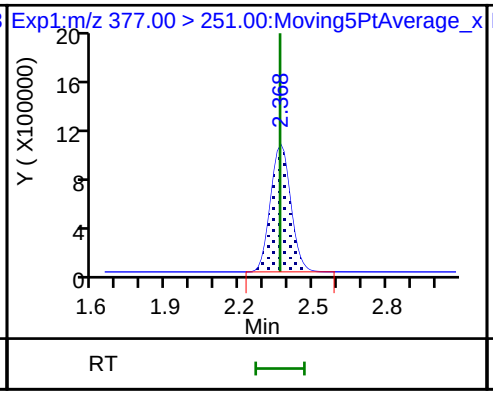
8 Perfluorohexanesulfonic acid



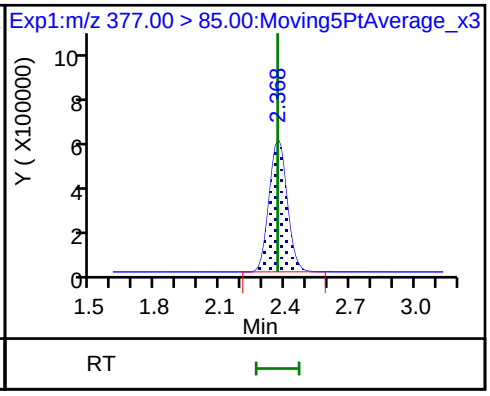
D 11 18O2 PFHxS



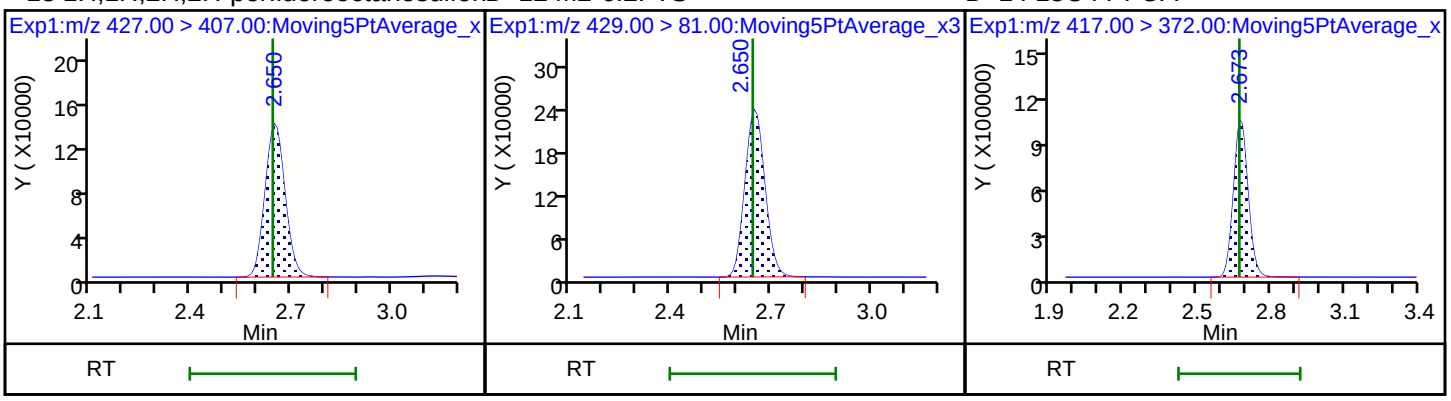
65 Adona



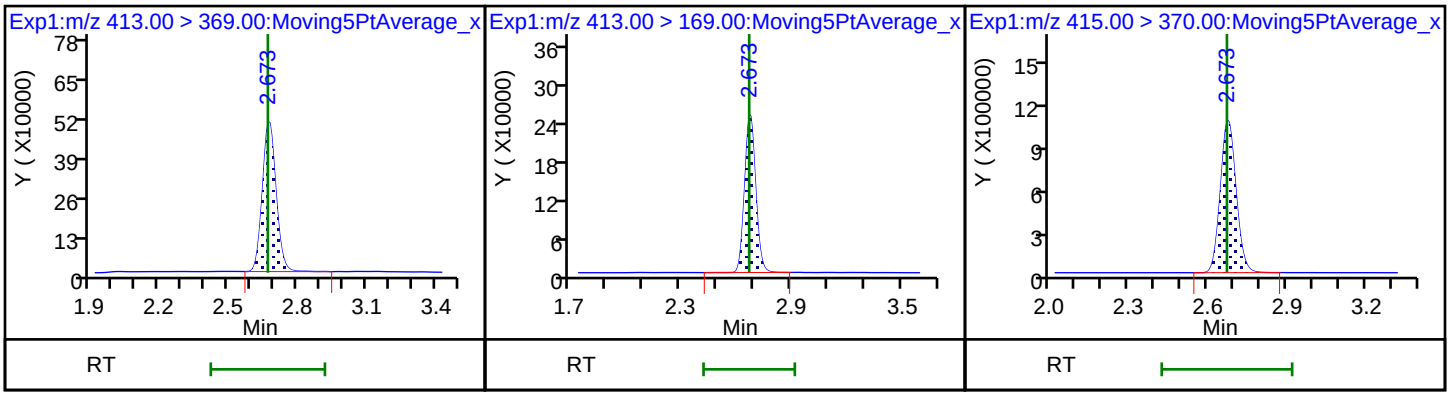
65 Adona



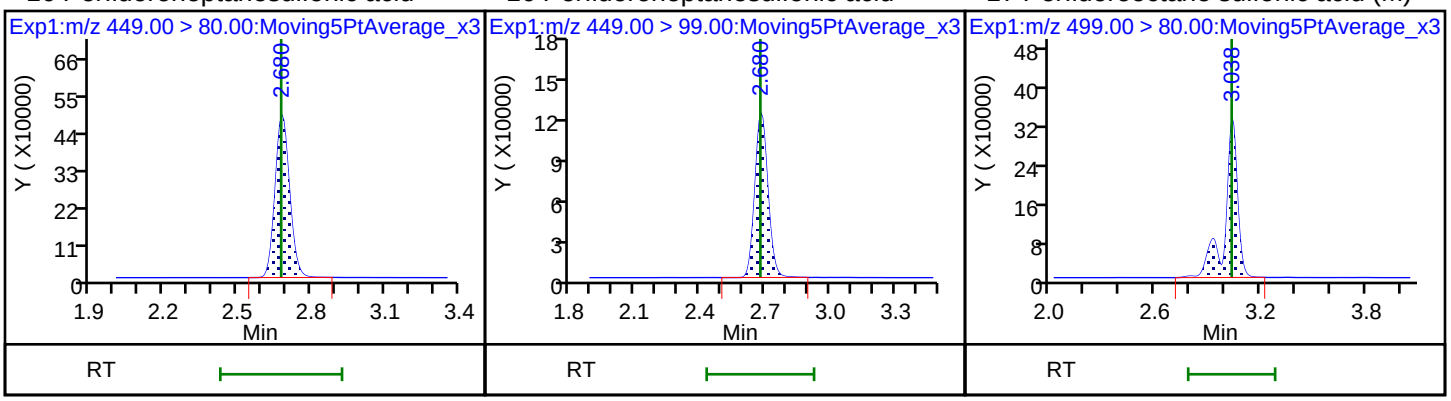
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



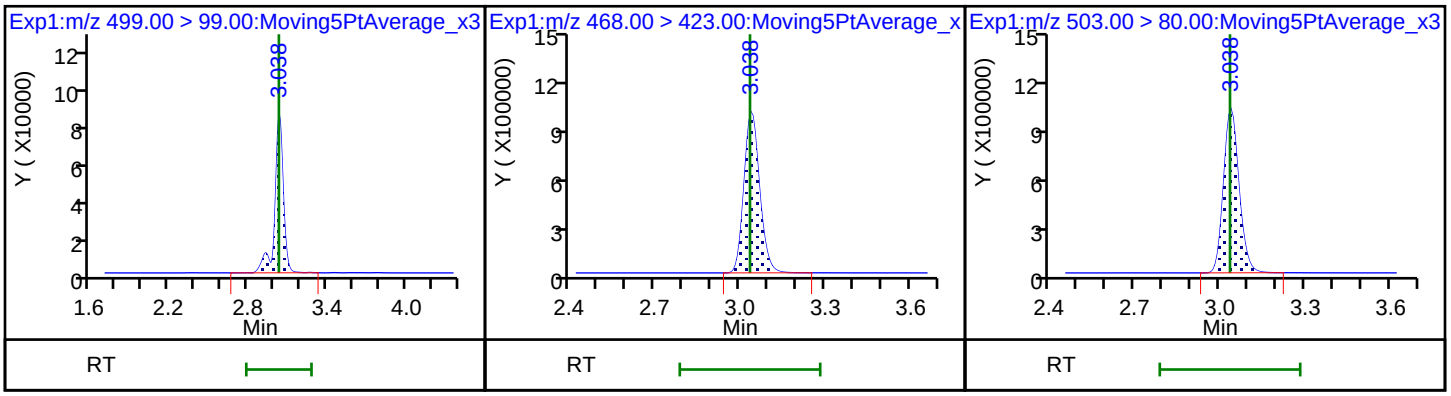
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



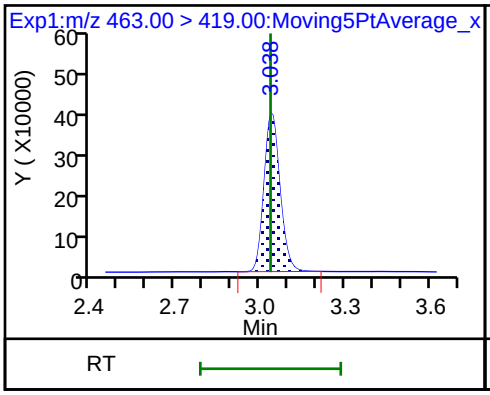
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid (M)



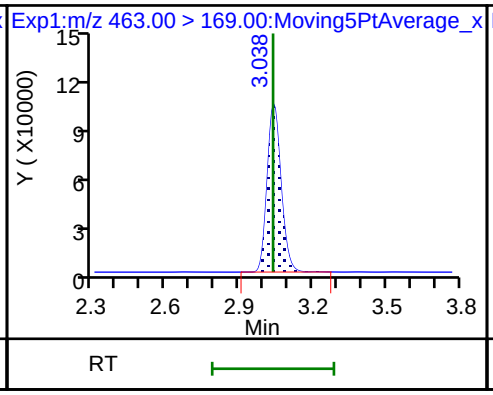
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



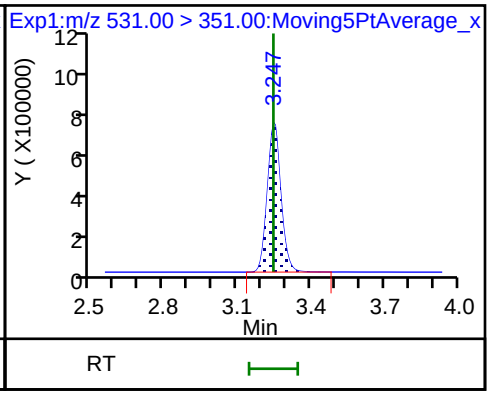
20 Perfluorononanoic acid



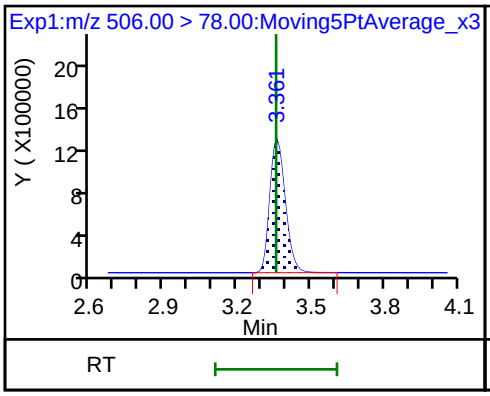
20 Perfluorononanoic acid



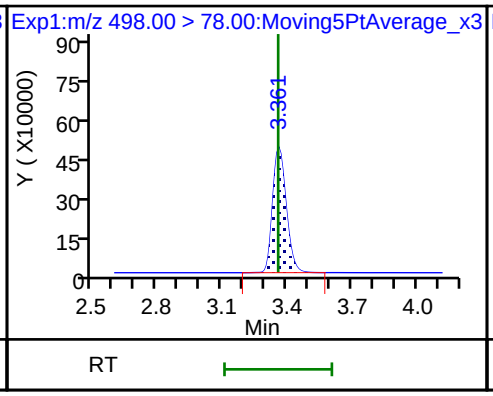
69 9-Chlorohexadecafluoro-3-oxanonane



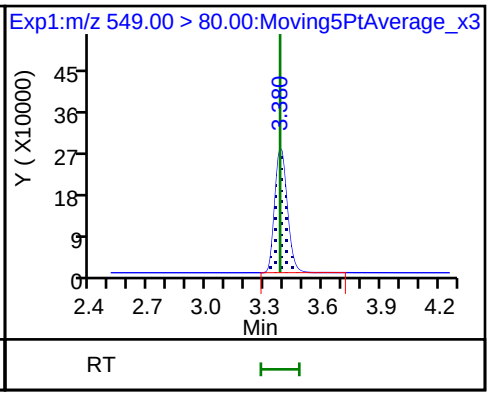
D 21 13C8 FOSA



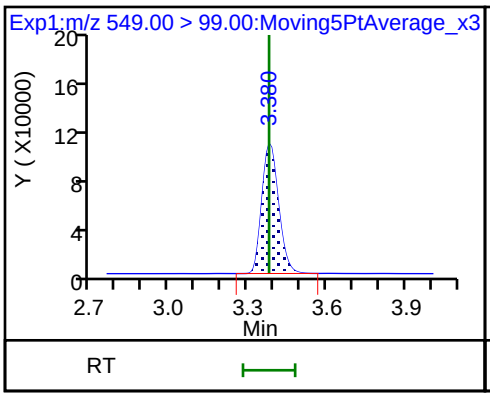
22 Perfluorooctane Sulfonamide



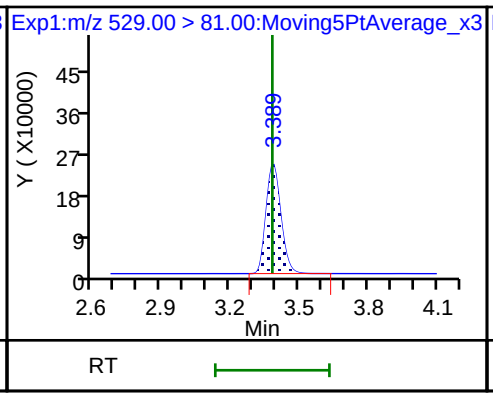
68 Perfluorononanesulfonic acid



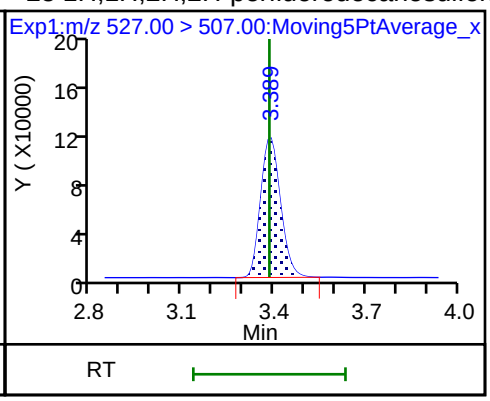
68 Perfluorononanesulfonic acid



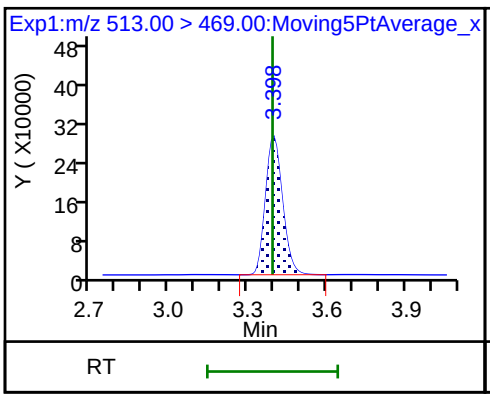
D 26 M2-8:2FTS



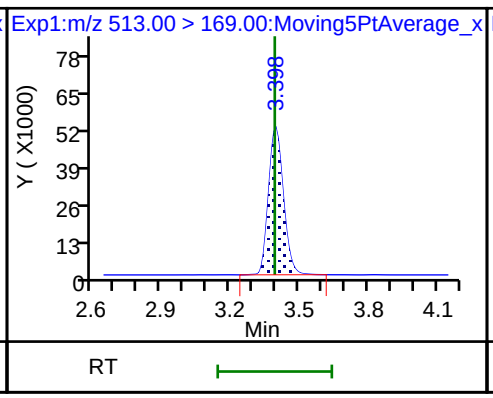
25 1H,1H,2H,2H-perfluorodecanesulfoni



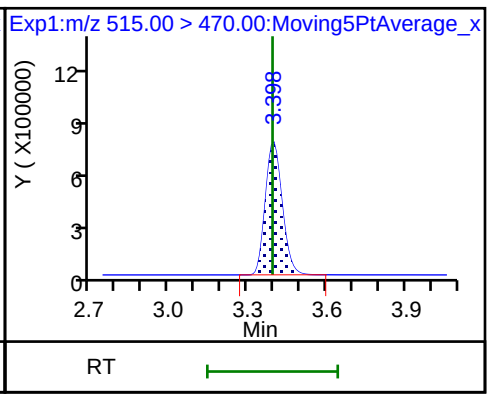
24 Perfluorodecanoic acid



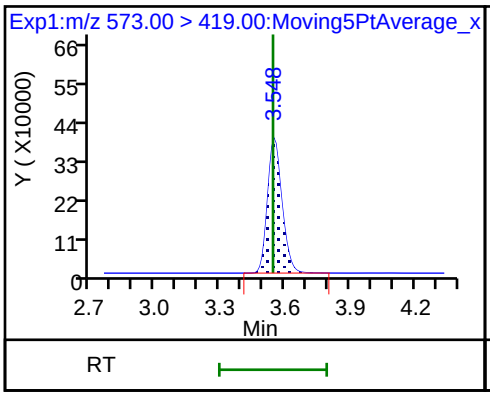
24 Perfluorodecanoic acid



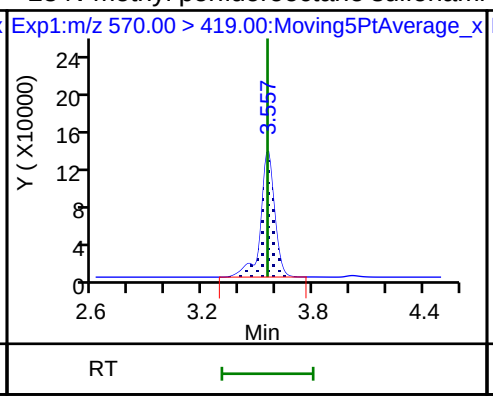
D 23 13C2 PFDA



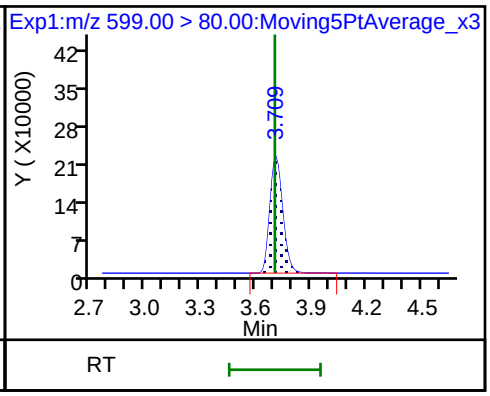
D 27 d3-NMeFOSAA



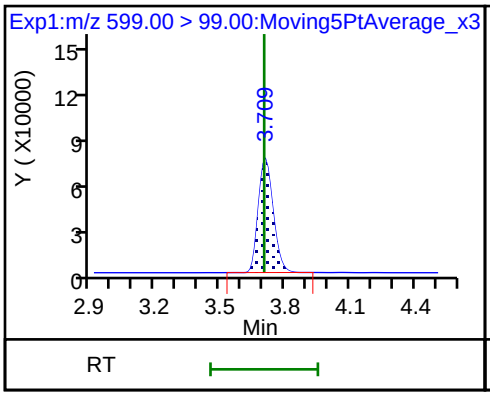
28 N-methyl perfluorooctane sulfonami



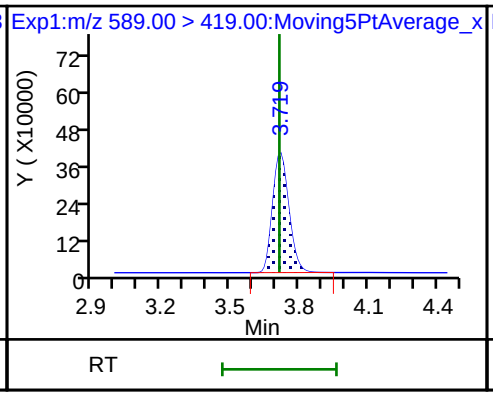
29 Perfluorodecane Sulfonic acid



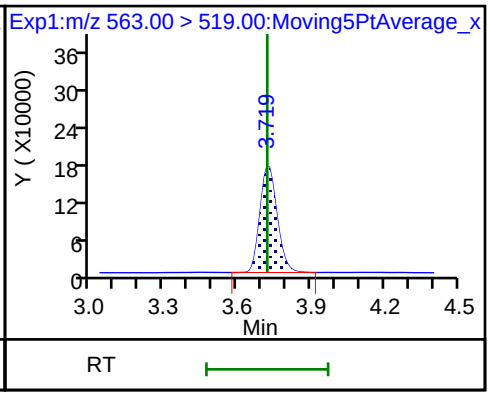
29 Perfluorodecane Sulfonic acid



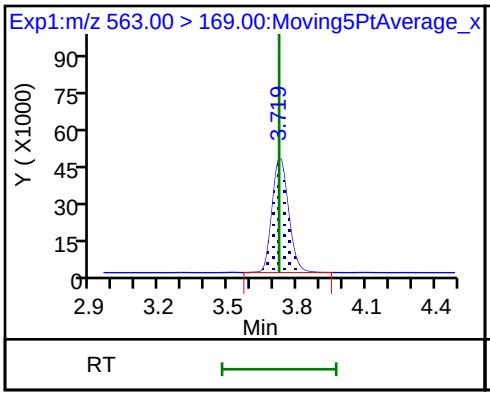
D 32 d5-NEtFOSAA



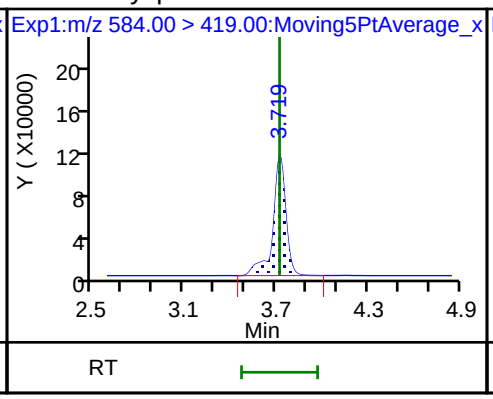
31 Perfluoroundecanoic acid



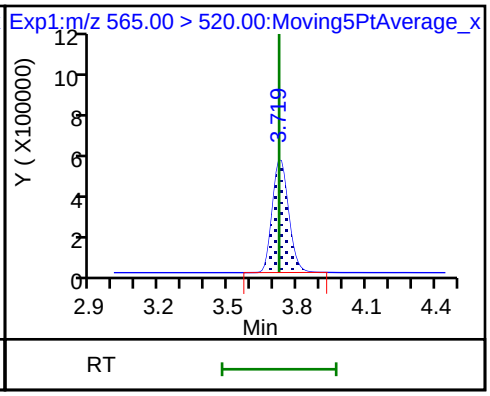
31 Perfluoroundecanoic acid



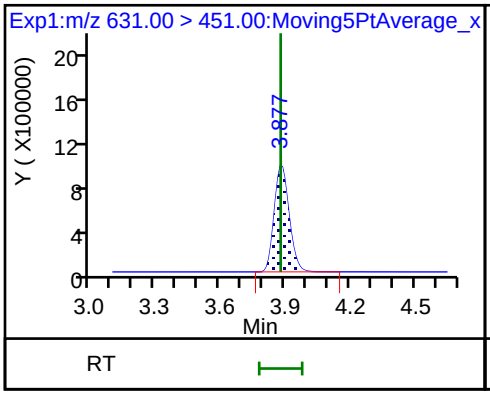
33 N-ethyl perfluorooctane sulfonamid



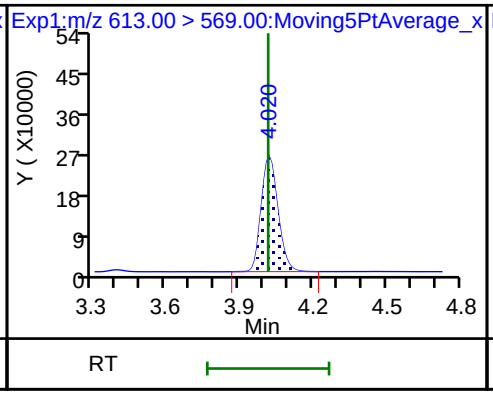
D 30 13C2 PFUnA



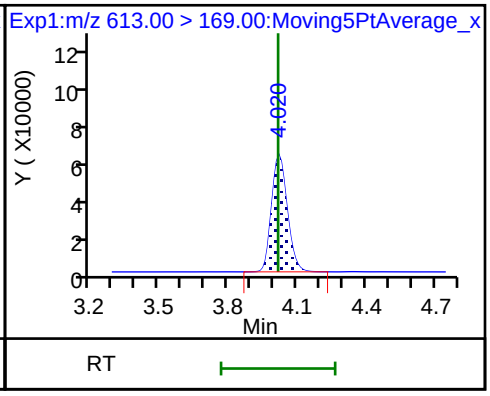
66 11-Chloroeicosafluoro-3-oxaundecan



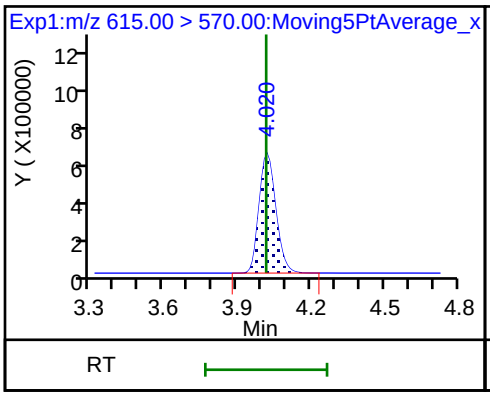
37 Perfluorododecanoic acid



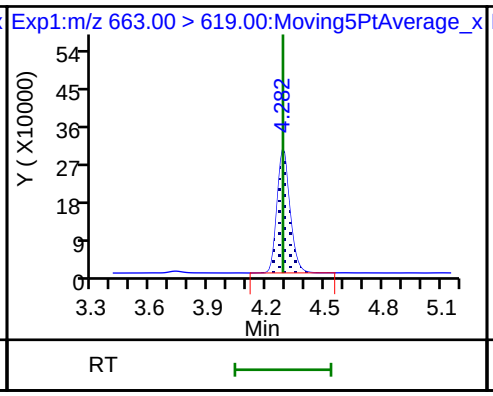
37 Perfluorododecanoic acid



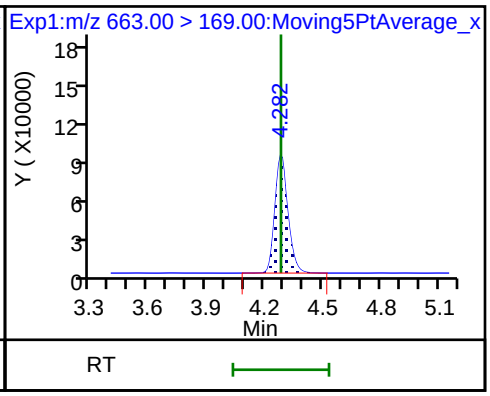
D 36 13C2 PFDoA



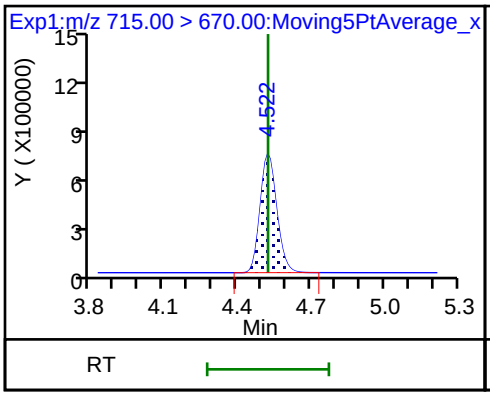
41 Perfluorotridecanoic acid



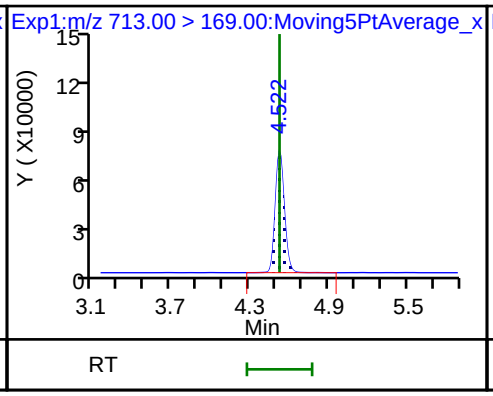
41 Perfluorotridecanoic acid



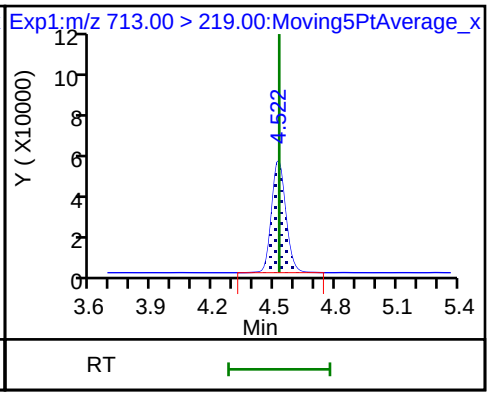
D 43 13C2-PFTeDA



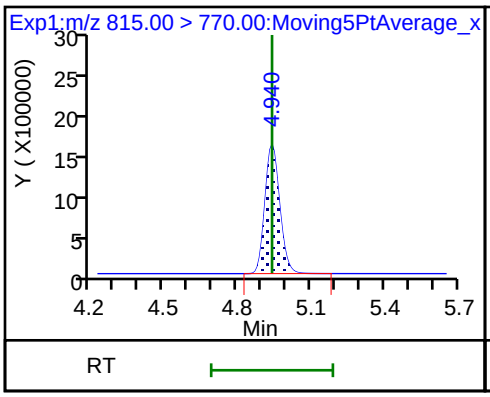
42 Perfluorotetradecanoic acid



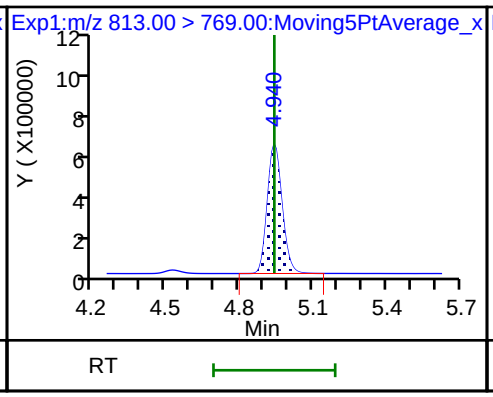
42 Perfluorotetradecanoic acid



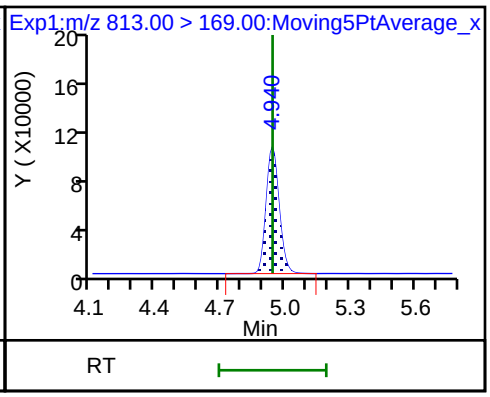
D 44 13C2-PFHxDA



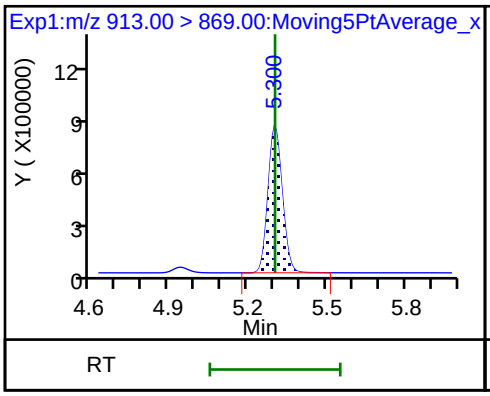
45 Perfluorohexadecanoic acid



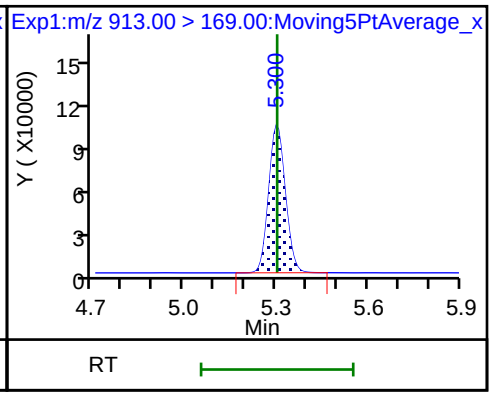
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

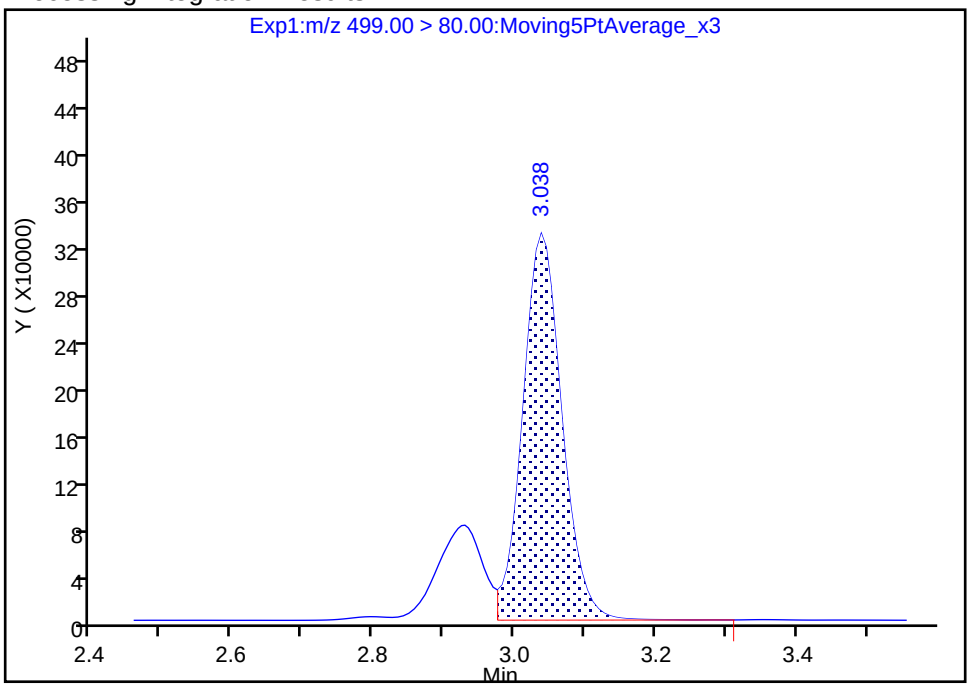
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d
Injection Date: 05-Jul-2018 09:14:49 Instrument ID: A8_N
Lims ID: IC L4 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

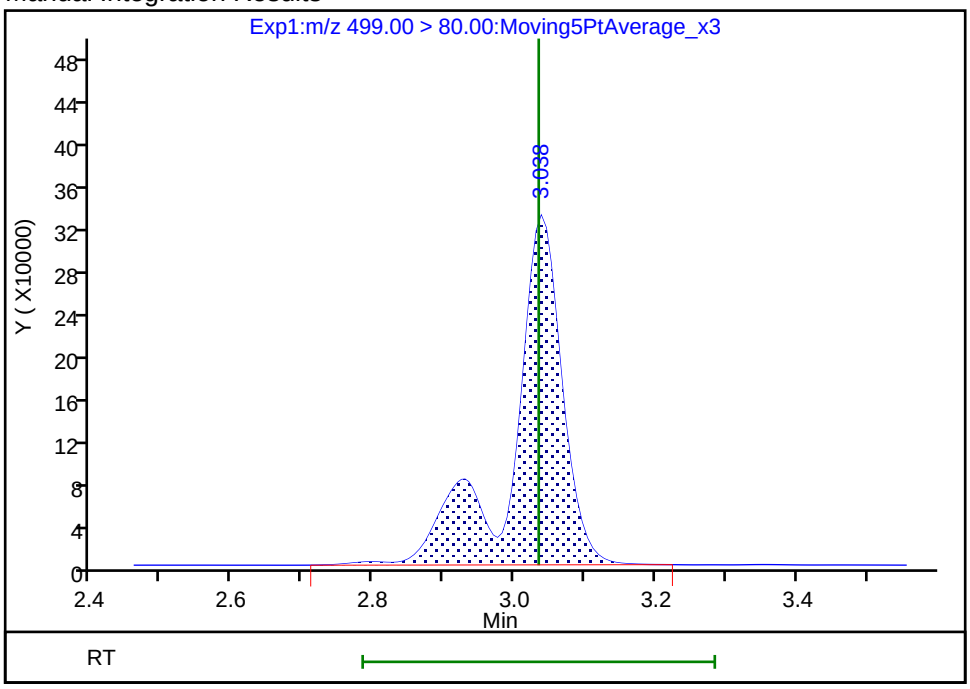
Processing Integration Results

RT: 3.04
Area: 1254577
Amount: 0.720987
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 1620324
Amount: 0.901990
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:12:23
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2018 09:22:38 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:01 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:13:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.536	5942375	2.48		99.1	24684	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	6019354	2.48		99.2	2461	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.642	4484079	2.53		101	38620	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.719	-0.003	1.000	5110087	2.39		95.7	3974	
D 47 13C3-PFBS										
301.90 > 83.00	1.761	1.756	0.005	0.659	97817	2.30		99.1	956	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.000	7339411	2.30		104	37350	
298.90 > 99.00	1.761	1.760	0.001	1.000	2961946		2.48(1.25-3.74)	104	26450	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.736	625570	2.29		98.1	7018	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.116	1513774	2.29		98.3	54590	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.748	4788239	2.52		101	71542	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.999	2.002	-0.003	1.000	4896489	2.51		100	8661	
313.00 > 119.00	1.999	2.002	-0.003	1.000	439446		11.14(5.03-15.10)	100	7908	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.025	-0.003	1.148	6619076	2.43		103	73311	
349.00 > 99.00	2.022	2.025	-0.003	1.148	2396690		2.76(1.36-4.07)	103	25200	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.786	380912	2.45		97.8	6332	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	901097	2.57		103	6257	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.318	-0.003	1.000	4999641	2.65		106	6973	
363.00 > 169.00	2.315	2.318	-0.003	1.000	1875739		2.67(1.13-3.40)	106	13773	
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.318	-0.003	0.866	4168061	2.47		98.8	37041	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.328	2.331	-0.003	1.000	5163686	2.16		94.8	18414	
399.00 > 99.00	2.328	2.331	-0.003	1.000	1774861		2.91(1.50-4.49)	94.8	10886	
D 11 18O2 PFHxS										
403.00 > 84.00	2.328	2.333	-0.005	0.871	4895856	2.36		99.7	29495	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.781	14088161	2.62		111	49595	
377.00 > 85.00	2.368	2.365	0.003	0.781	8148050		1.73(0.84-2.53)	111	52182	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.642	2.645	-0.003	1.000	1396856	2.46		104	9085	
D 12 M2-6:2FTS										
429.00 > 81.00	2.642	2.645	-0.003	0.989	862284	2.28		95.8	15731	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.670	0.003	1.000	4126992	2.50		99.9	35468	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.671	0.002	1.000	4823268	2.46		98.5	1933	
413.00 > 169.00	2.673	2.671	0.002	1.000	2511857		1.92(0.84-2.52)	98.5	11625	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.671	0.002		4332703	2.50			32774	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.678	-0.005	0.882	4951993	2.55		107	28016	
449.00 > 99.00	2.673	2.678	-0.005	0.882	1296760		3.82(1.94-5.82)	107	15697	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.031	3.034	-0.003	1.000	3955854	2.34		101	23872	
499.00 > 99.00	3.031	3.034	-0.003	1.000	862455		4.59(2.31-6.93)	101	12955	
D 19 13C5 PFNA										
468.00 > 423.00	3.031	3.034	-0.003	1.134	3465887	2.47		98.6	42511	
D 18 13C4 PFOS										
503.00 > 80.00	3.031	3.034	-0.003	1.134	3463003	2.34		97.8	24513	
20 Perfluorononanoic acid										
463.00 > 419.00	3.038	3.036	0.002	1.002	3913598	2.62		105	6881	
463.00 > 169.00	3.031	3.036	-0.005	1.000	959134		4.08(1.90-5.69)	105	19080	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.246	0.001	1.071	6652637	2.43		104	74525	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.357	0.004	1.257	5102615	2.48		99.2	37782	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.358	0.003	1.000	5128289	2.53		101	36594	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.380	3.379	0.001	1.115	2815426	2.39		99.6	35388	
549.00 > 99.00	3.380	3.379	0.001	1.115	1078510		2.61(1.33-3.97)	99.6	16289	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.380	3.382	-0.002	1.264	978302	2.32		97.0	16680	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.380	3.383	-0.003	1.000	1299370	2.41		101	24236	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.389	3.393	-0.004	1.000	3139526	2.56		103	11744	
513.00 > 169.00	3.389	3.393	-0.004	1.000	540721		5.81(2.36-7.09)	103	11136	
D 23 13C2 PFDA										
515.00 > 470.00	3.389	3.393	-0.004	1.268	2937890	2.42		97.0	39124	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.548	3.543	0.005	1.327	1766929	2.47		99.0	29664	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.548	3.551	-0.003	1.000	1825431	2.51		100	11808	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.698	3.702	-0.004	1.220	2461548	2.36		98.0	33677	
599.00 > 99.00	3.698	3.702	-0.004	1.220	852367		2.89(1.39-4.16)	98.0	22051	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.709	3.713	-0.004	1.387	1654181	2.35		93.8	11509	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.721	-0.002	1.000	2060853	2.37		94.8	7715	
563.00 > 169.00	3.719	3.721	-0.002	1.000	486954		4.23(2.12-6.36)	94.8	14305	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.721	-0.002	1.003	1549739	2.60		104	15262	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.721	-0.002	1.391	2557898	2.51		101	26360	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.877	3.879	-0.002	1.279	10714579	2.56		109	60636	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.020	4.016	0.004	1.000	3070255	2.66		107	3466	
613.00 > 169.00	4.020	4.016	0.004	1.000	720660		4.26(2.13-6.40)	107	9486	
D 36 13C2 PFDoA										
615.00 > 570.00	4.020	4.016	0.004	1.504	2616078	2.40		95.9	13704	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.281	4.284	-0.003	1.065	3136503	2.44		97.7	3294	
663.00 > 169.00	4.281	4.284	-0.003	1.065	1022166		3.07(1.25-3.76)	97.7	10653	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.522	4.524	-0.002	1.692	3283601	2.47		98.8	12890	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.522	4.524	-0.002	1.000	845500	2.38		95.1	11873	
713.00 > 219.00	4.512	4.524	-0.012	0.998	587640		1.44(0.71-2.13)	95.1	8269	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.940	0.0	1.848	6019047	2.45		97.9	11221	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.940	4.941	-0.001	1.000	6181291	2.68		107	2514	
813.00 > 169.00	4.940	4.941	-0.001	1.000	977236		6.33(2.86-8.58)	107	6007	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.299	5.302	-0.003	1.073	7063441	2.52		101	2090	
913.00 > 169.00	5.299	5.302	-0.003	1.073	866383		8.15(3.83-11.48)	101	7212	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_006.d

Injection Date: 05-Jul-2018 09:22:38 Instrument ID: A8_N

Lims ID: IC L5 Full

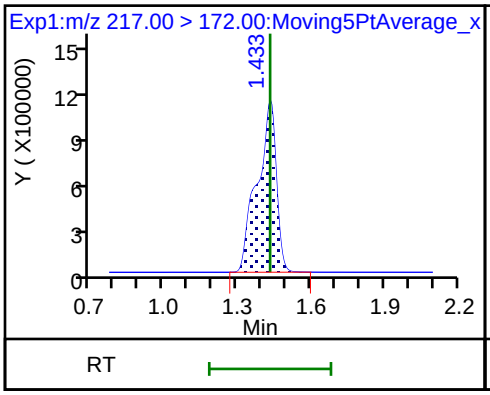
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

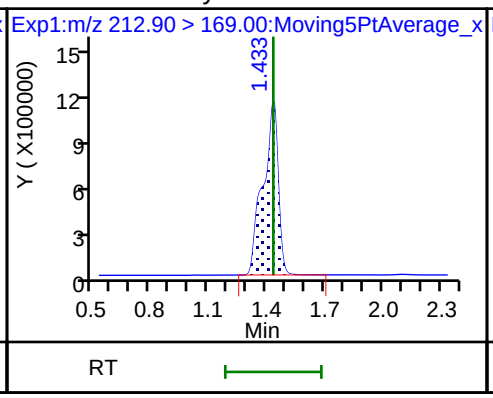
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

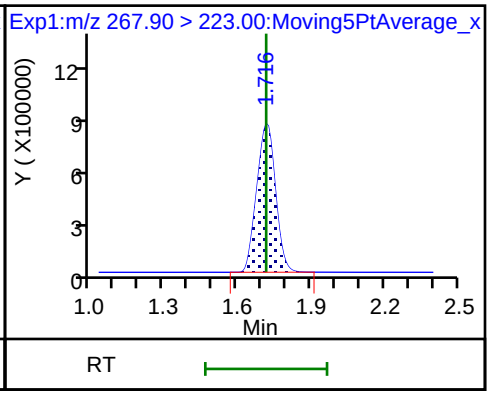
D 1 13C4 PFBA



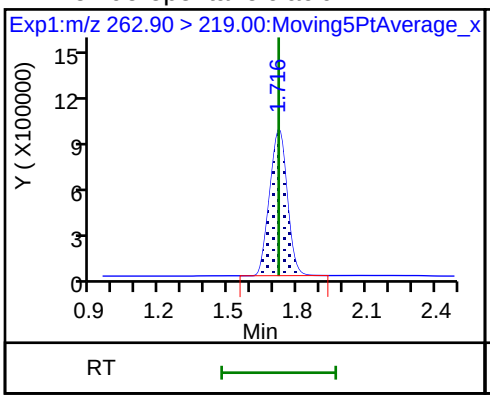
2 Perfluorobutyric acid



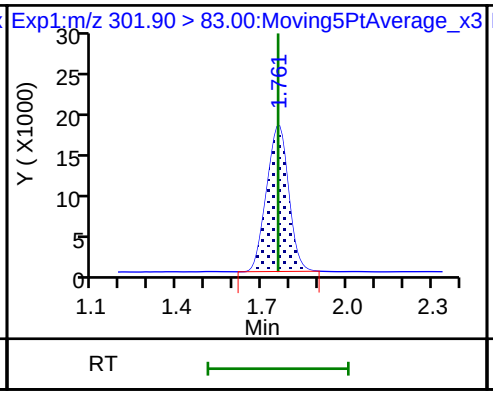
D 3 13C5-PFPeA



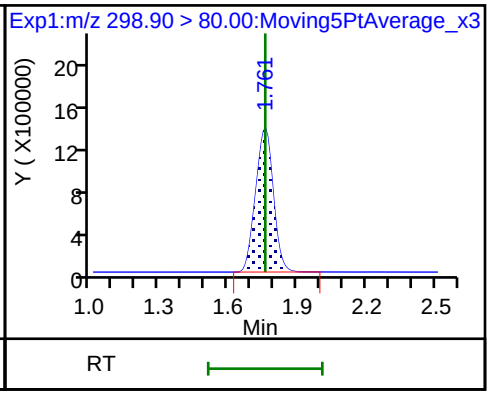
4 Perfluoropentanoic acid



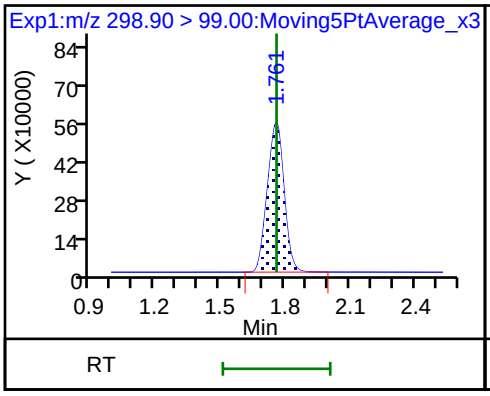
D 47 13C3-PFBS



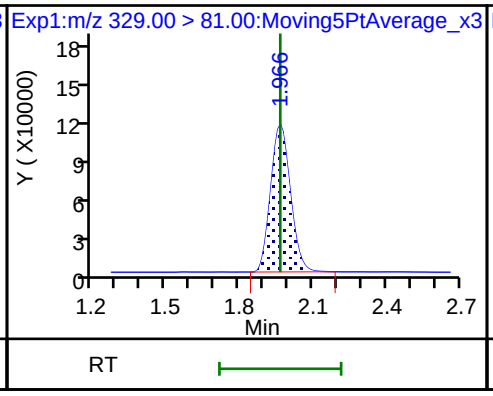
5 Perfluorobutanesulfonic acid



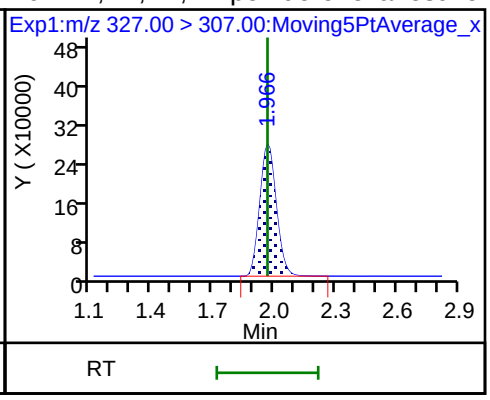
5 Perfluorobutanesulfonic acid



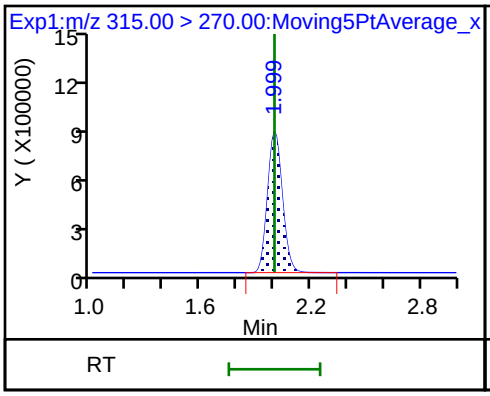
D 60 M2-4:2FTS



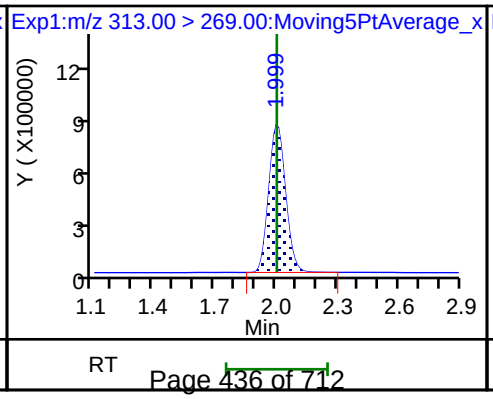
61 1H,1H,2H,2H-perfluorohexanesulfoni



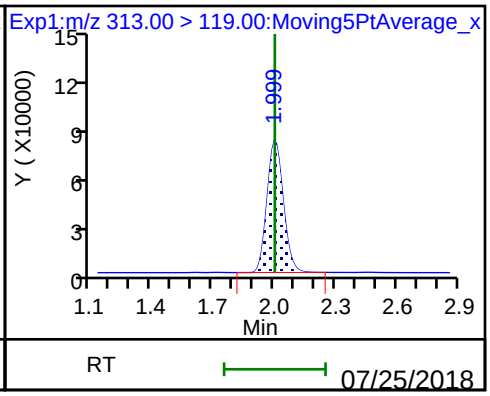
D 7 13C2 PFHxA



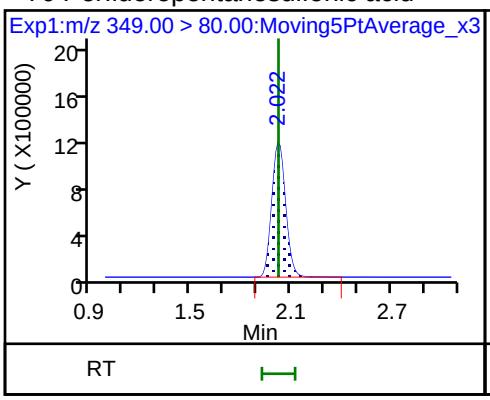
6 Perfluorohexanoic acid



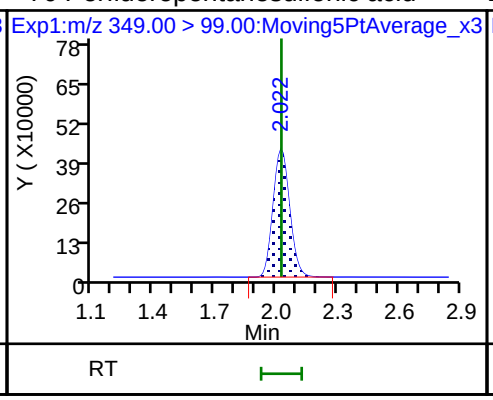
6 Perfluorohexanoic acid



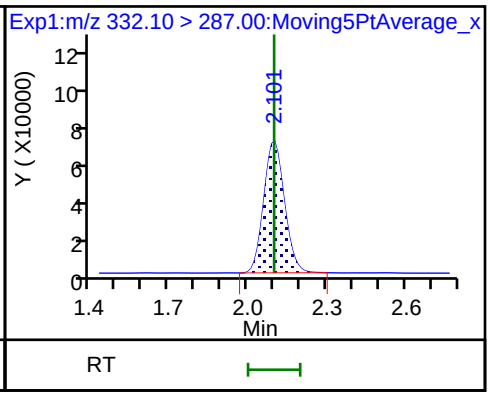
70 Perfluoropentanesulfonic acid



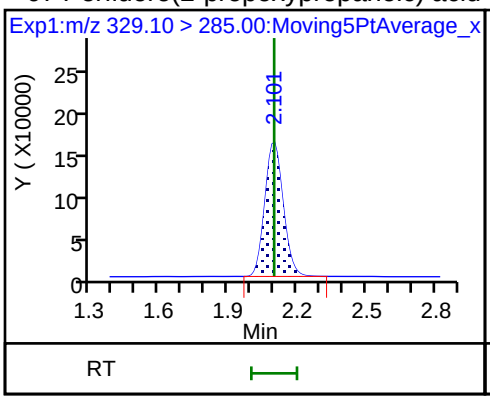
70 Perfluoropentanesulfonic acid



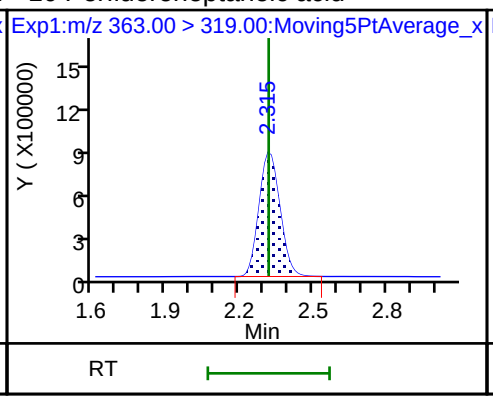
D 64 13C3 HFPO-DA



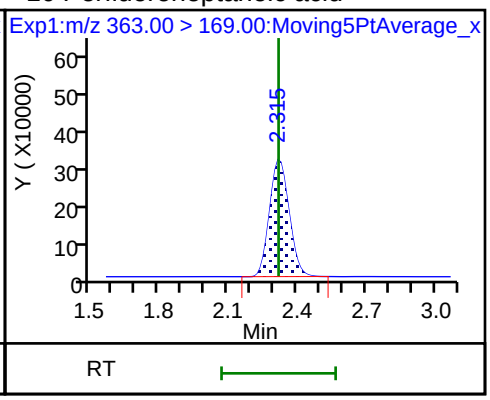
67 Perfluoro(2-propoxypropanoic) acid



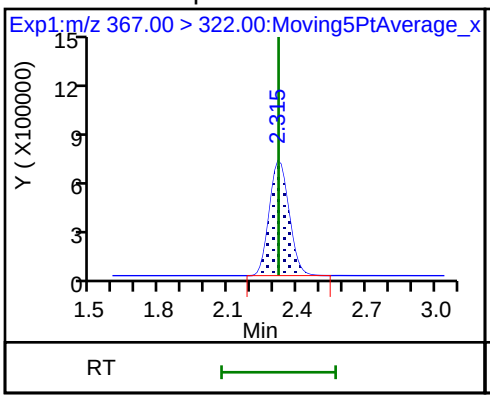
10 Perfluoroheptanoic acid



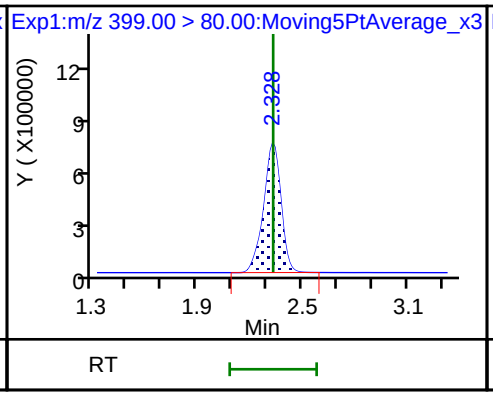
10 Perfluoroheptanoic acid



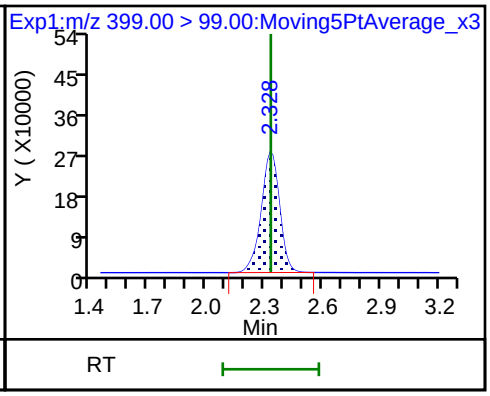
D 9 13C4-PFHpA



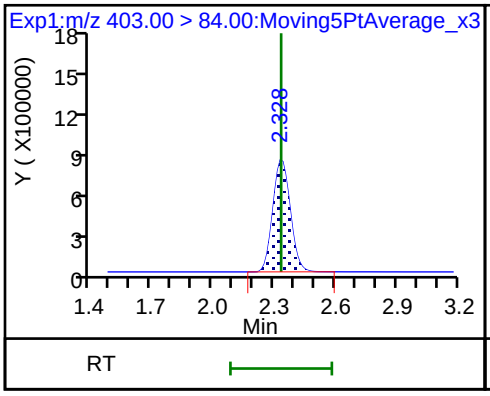
8 Perfluorohexanesulfonic acid



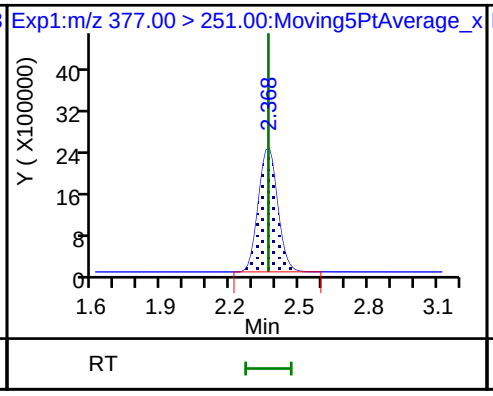
8 Perfluorohexanesulfonic acid



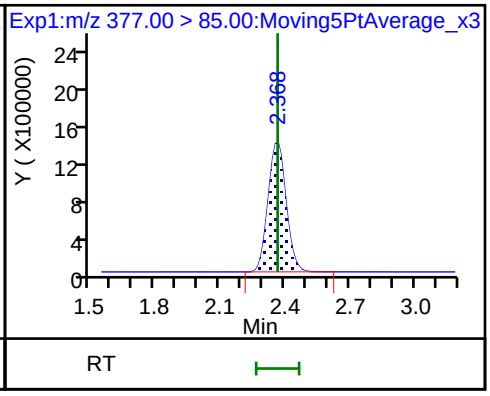
D 11 18O2 PFHxS



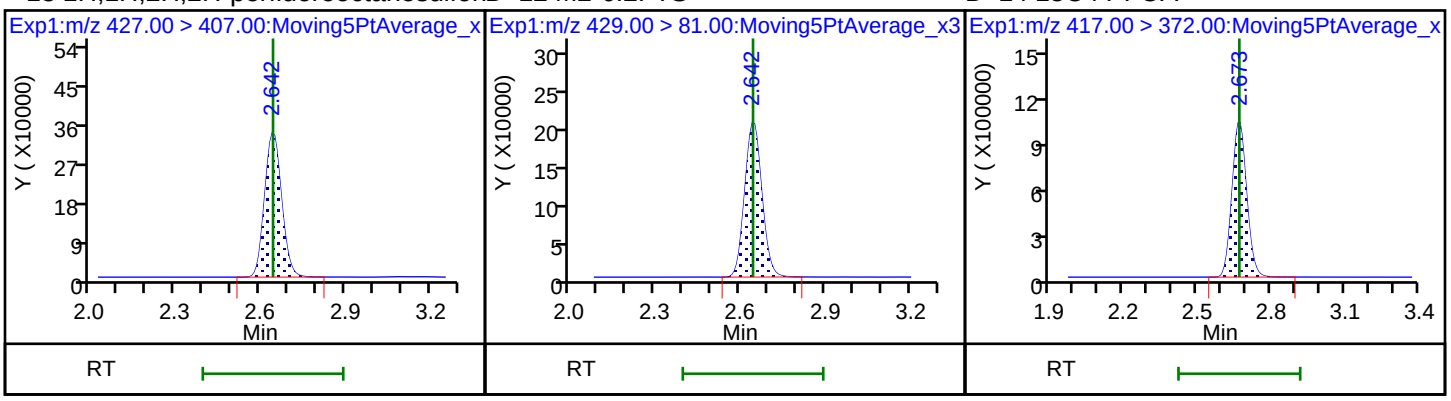
65 Adona



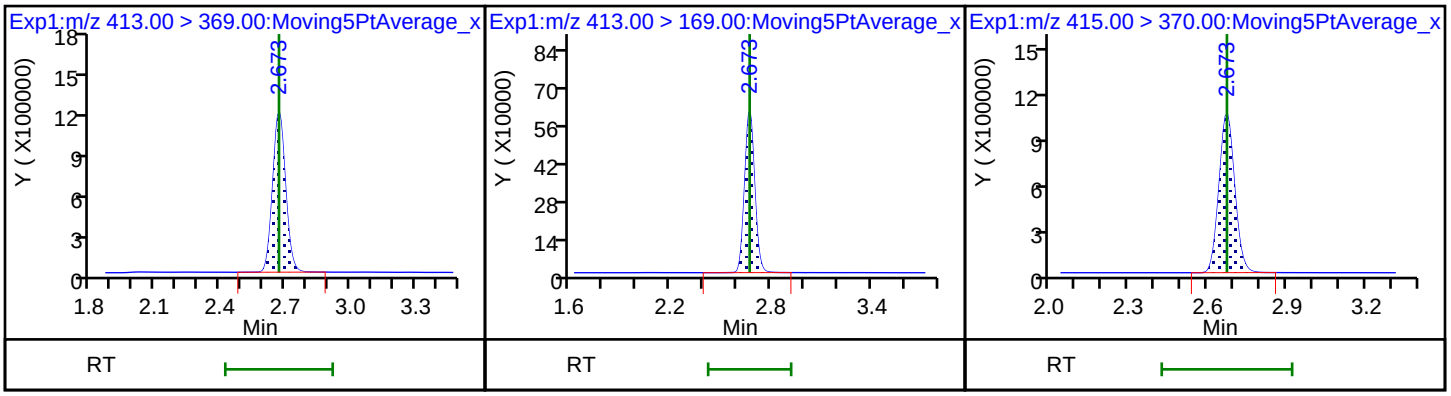
65 Adona



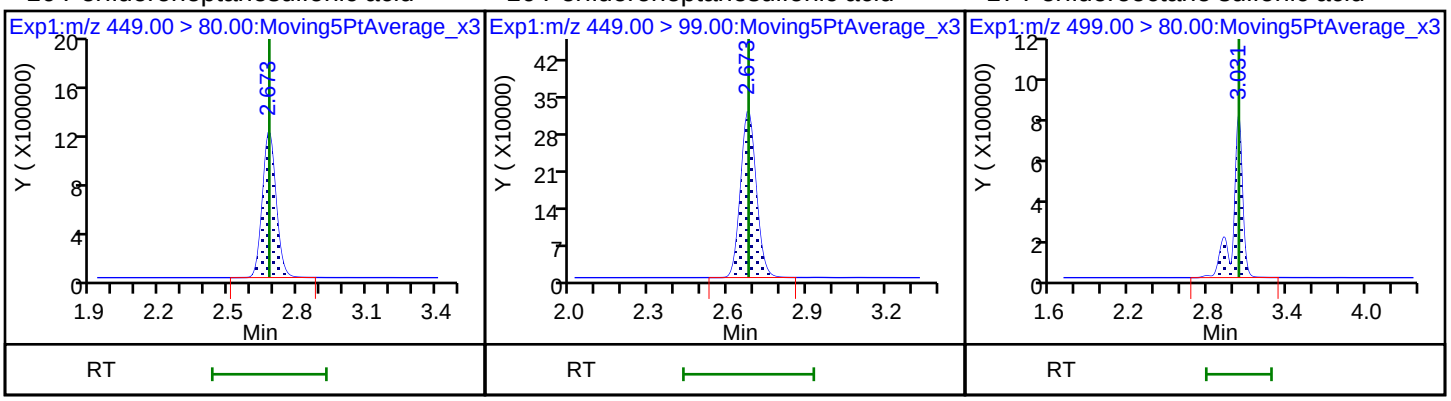
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



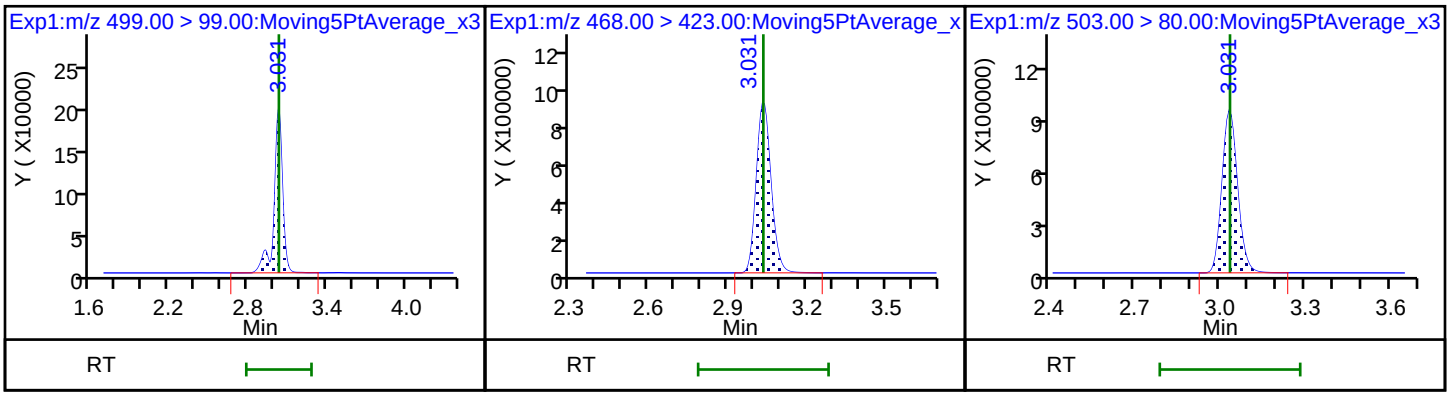
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



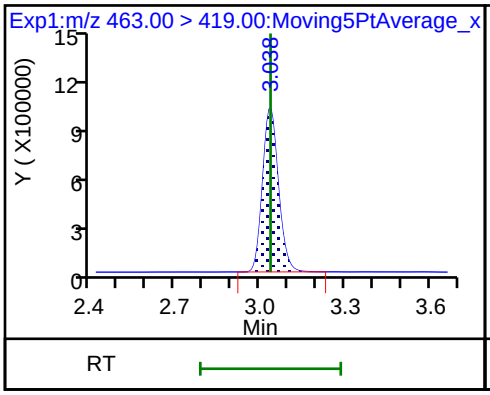
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



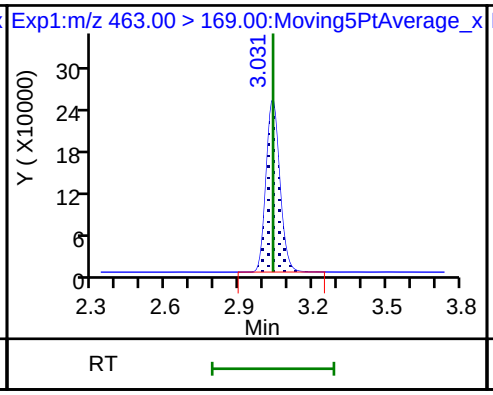
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



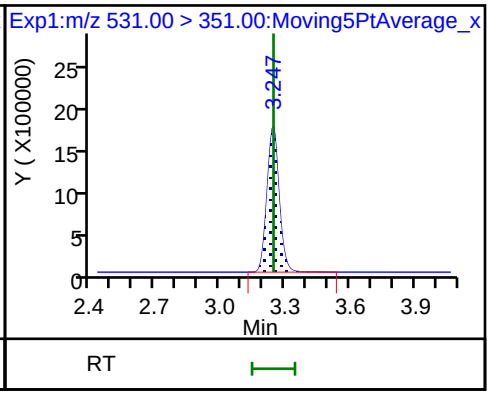
20 Perfluorononanoic acid



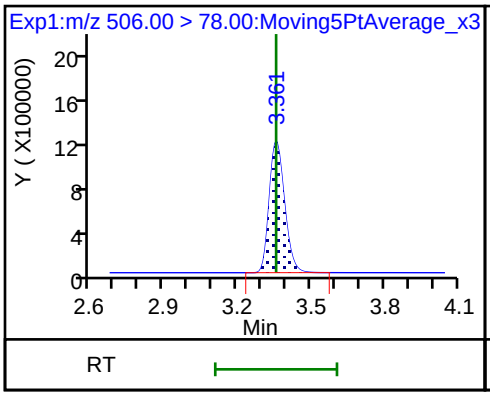
20 Perfluorononanoic acid



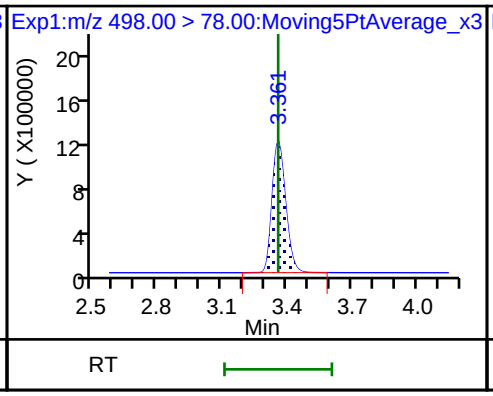
69 9-Chlorohexadecafluoro-3-oxanonane



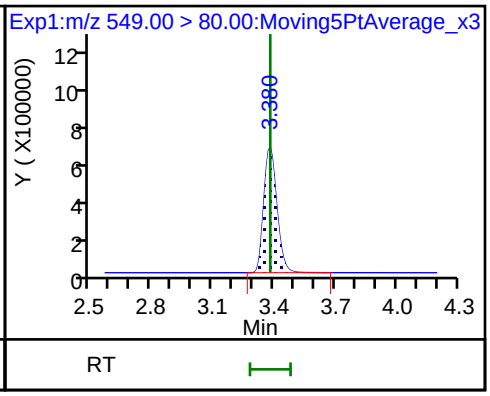
D 21 13C8 FOSA



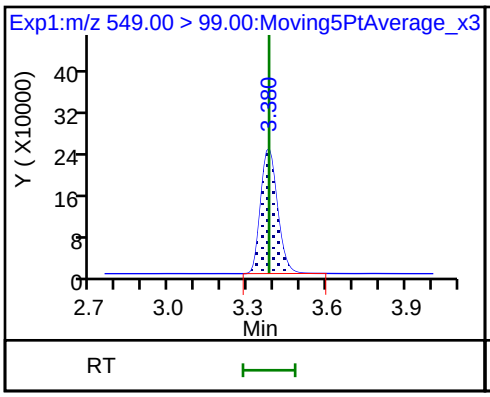
22 Perfluorooctane Sulfonamide



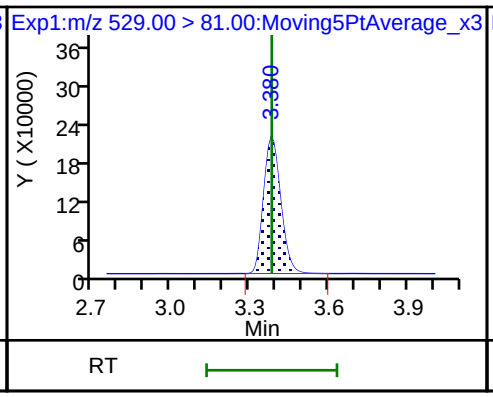
68 Perfluorononanesulfonic acid



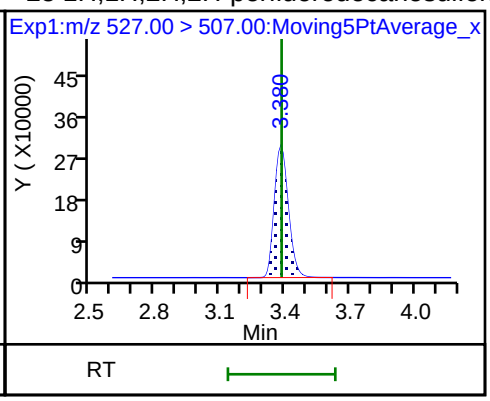
68 Perfluorononanesulfonic acid



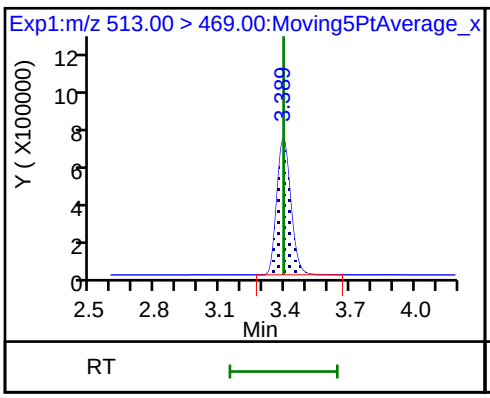
D 26 M2-8:2FTS



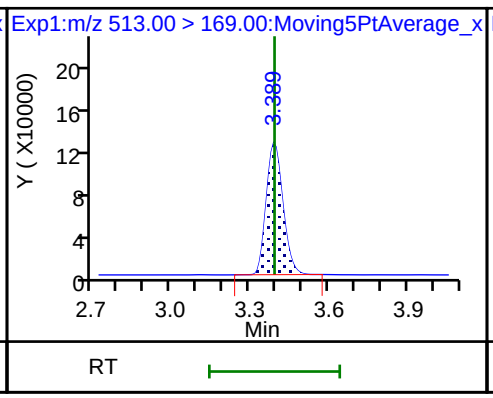
25 1H,1H,2H,2H-perfluorodecanesulfoni



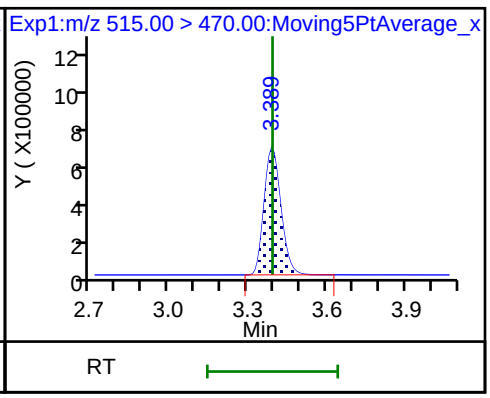
24 Perfluorodecanoic acid



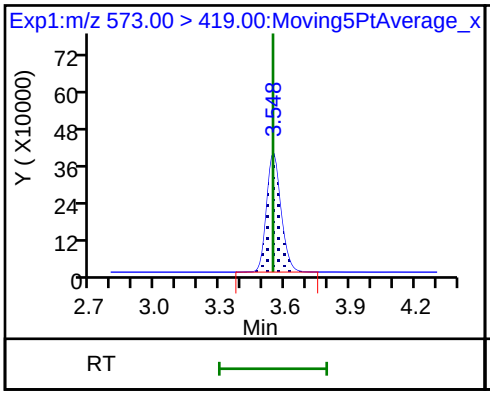
24 Perfluorodecanoic acid



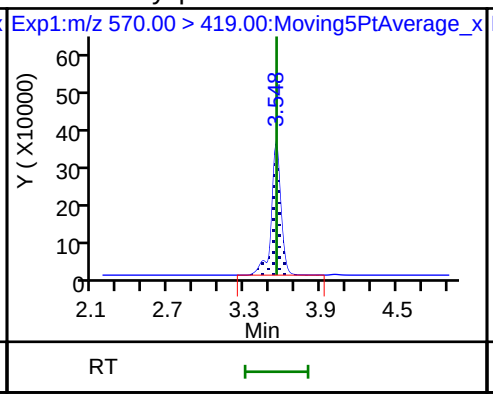
D 23 13C2 PFDA



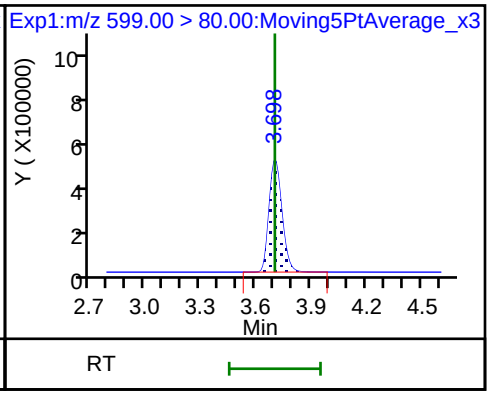
D 27 d3-NMeFOSAA



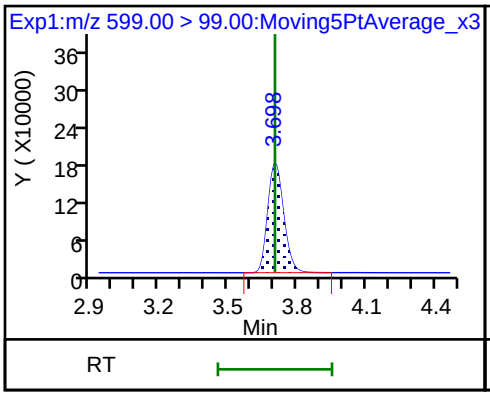
28 N-methyl perfluorooctane sulfonami



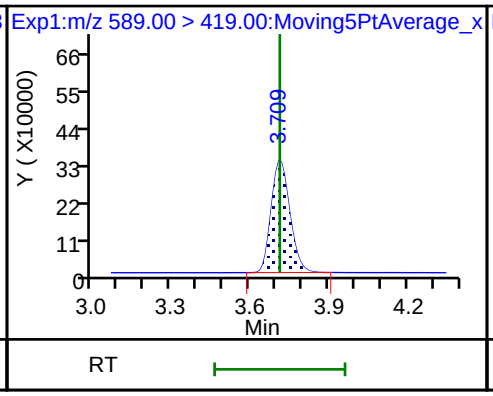
29 Perfluorodecane Sulfonic acid



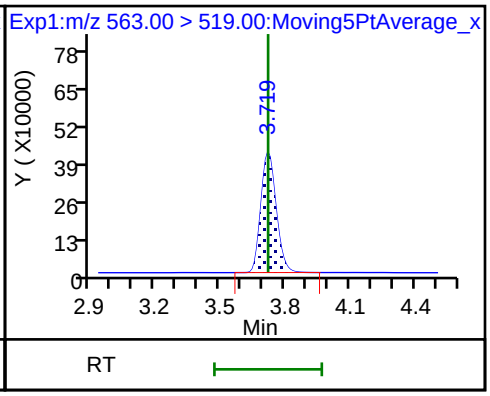
29 Perfluorodecane Sulfonic acid



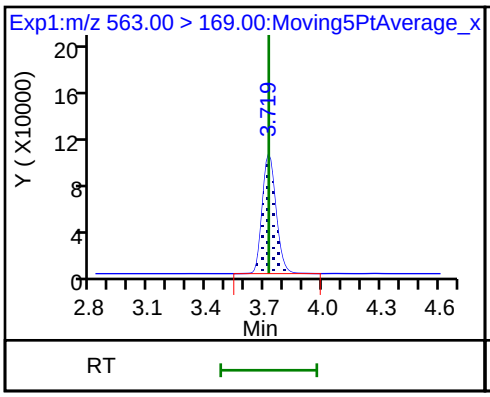
D 32 d5-NEtFOSAA



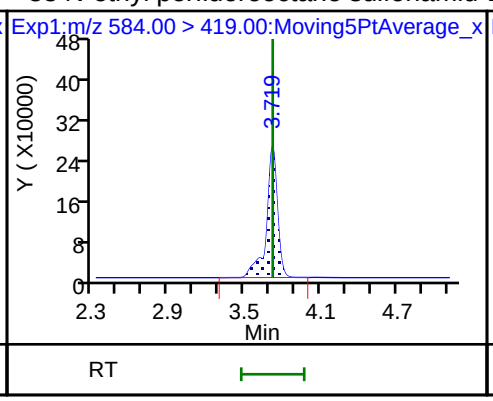
31 Perfluoroundecanoic acid



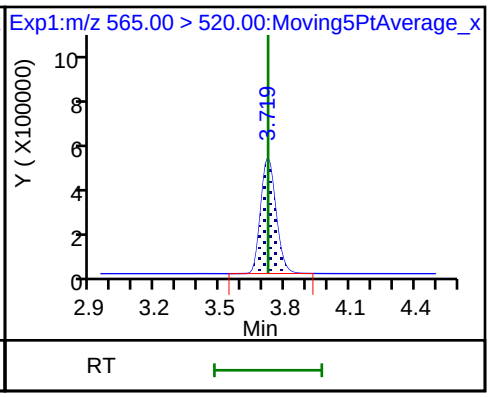
31 Perfluoroundecanoic acid



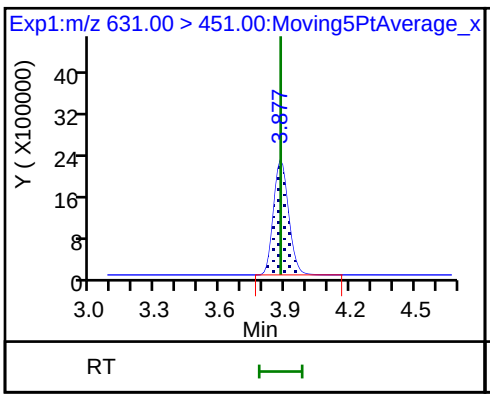
33 N-ethyl perfluorooctane sulfonamid



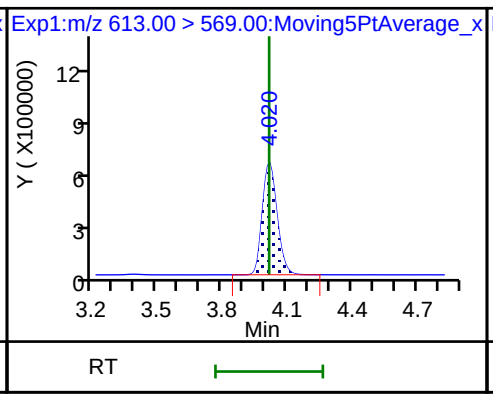
D 30 13C2 PFUnA



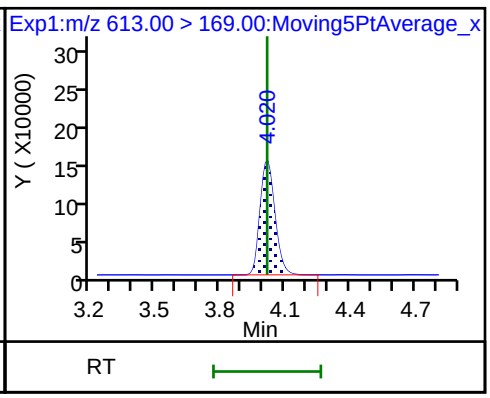
66 11-Chloroeicosafluoro-3-oxaundecan



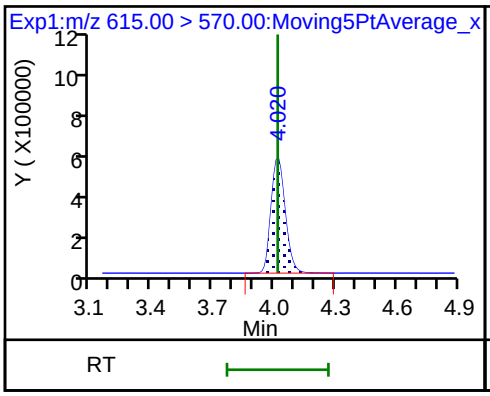
37 Perfluorododecanoic acid



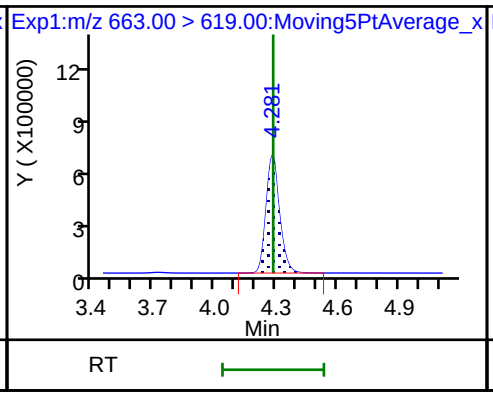
37 Perfluorododecanoic acid



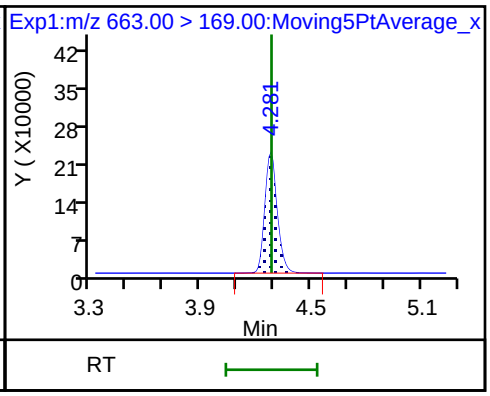
D 36 13C2 PFDoA



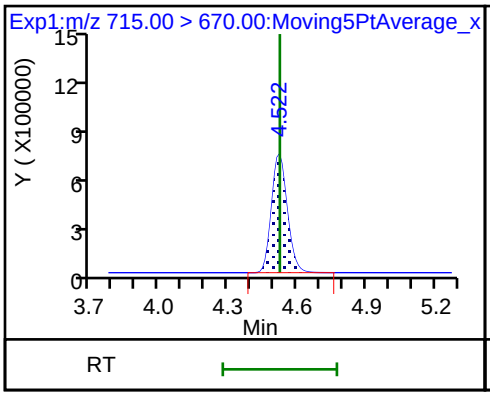
41 Perfluorotridecanoic acid



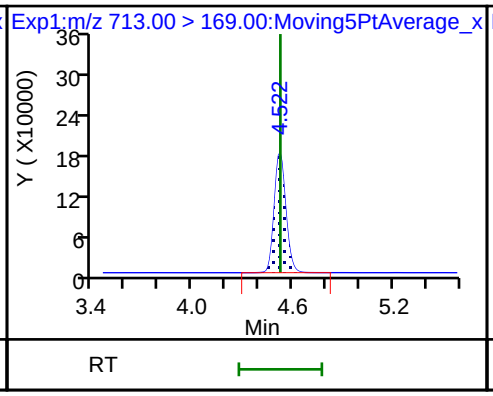
41 Perfluorotridecanoic acid



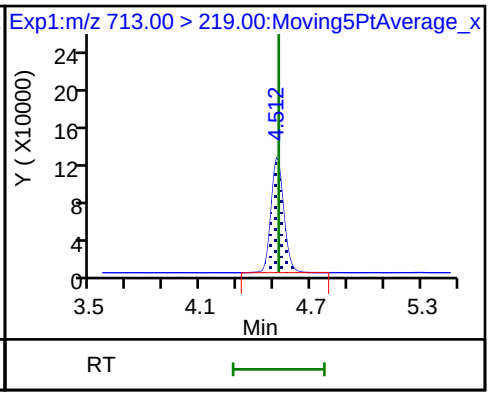
D 43 13C2-PFTeDA



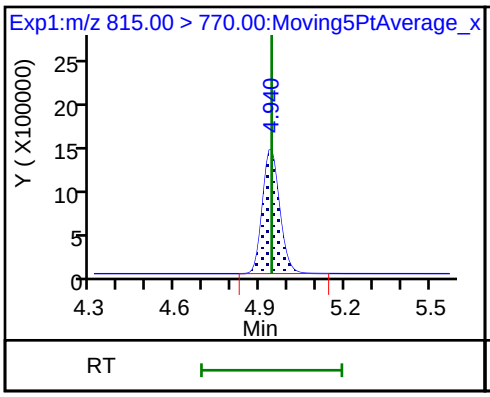
42 Perfluorotetradecanoic acid



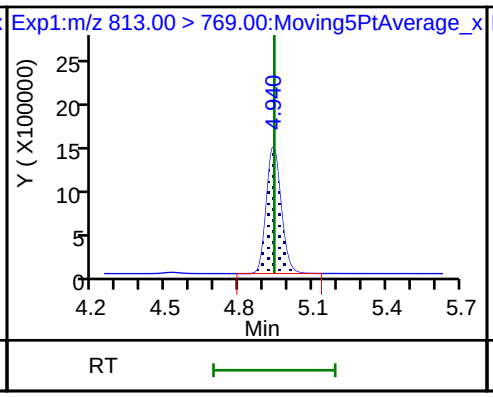
42 Perfluorotetradecanoic acid



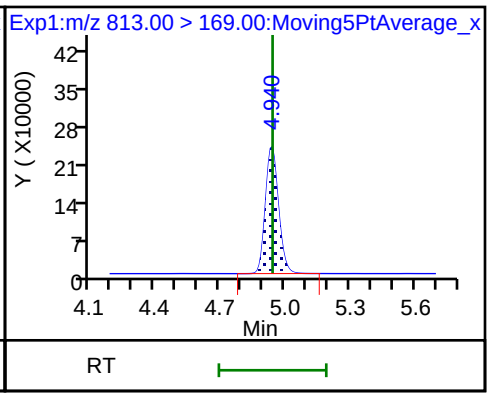
D 44 13C2-PFHxDA



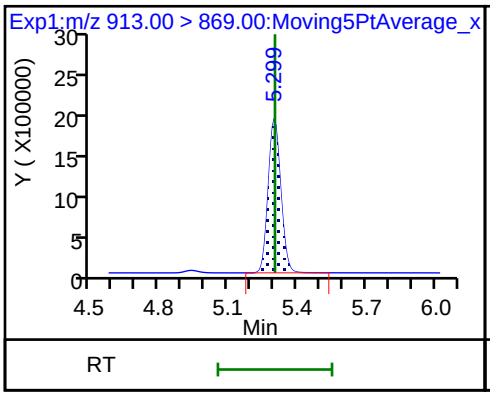
45 Perfluorohexadecanoic acid



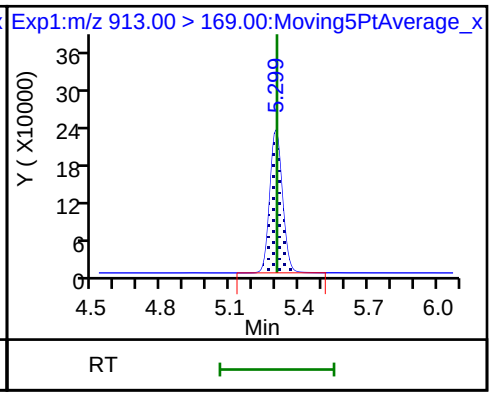
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2018 09:30:26 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:04 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:13:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.538	6096226	2.64		105	25217	
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.434	-0.004	1.000	12195770	4.90		97.9	4892	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.716	-0.004	0.644	4432781	2.59		104	42235	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.719	-0.007	1.000	10524768	4.98		99.7	8133	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.756	-0.008	0.657	101582	2.48		107	712	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.760	-0.003	1.005	14809613	4.47		101	77516	
298.90 > 99.00	1.757	1.760	-0.003	1.005	6061859		2.44(1.25-3.74)	101	52057	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.966	-0.006	0.737	591212	2.25		96.2	7157	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.966	-0.006	1.122	3122682	4.56		97.6	114110	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	2.000	-0.007	0.749	4780842	2.61		104	66559	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	2.002	-0.009	1.000	9756155	5.01		100	17650	
313.00 > 119.00	1.993	2.002	-0.009	1.000	902574		10.81(5.03-15.10)	100	16003	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.025	-0.009	1.153	12984575	4.58		97.7	85664	
349.00 > 99.00	2.016	2.025	-0.009	1.153	4919724		2.64(1.36-4.07)	97.7	48815	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.788	368208	2.45		98.1	6770	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.099	-0.004	1.000	1939946	5.73		115	14121	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.308	2.318	-0.010	1.000	9666111	5.27		105	10537	
363.00 > 169.00	2.308	2.318	-0.010	1.000	3511245		2.75(1.13-3.40)	105	17981	
D 9 13C4-PFHpA										
367.00 > 322.00	2.308	2.318	-0.010	0.868	4055763	2.49		99.8	40046	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.321	2.331	-0.010	0.994	10377680	4.47		98.3	21956	
399.00 > 99.00	2.321	2.331	-0.010	0.994	3539108		2.93(1.50-4.49)	98.3	13906	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.877	4746316	2.37		100	47026	
65 Adona										
377.00 > 251.00	2.360	2.365	-0.005	0.779	24778537	4.58		97.3	109531	
377.00 > 85.00	2.360	2.365	-0.005	0.779	16134482		1.54(0.84-2.53)	97.3	51266	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.636	2.645	-0.009	1.000	2772705	4.74		99.9	15793	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.645	-0.009	0.991	887494	2.43		102	15164	
D 14 13C4 PFOA										
417.00 > 372.00	2.660	2.670	-0.010	1.000	3996804	2.51		100	39848	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.671	-0.004	1.003	9816387	5.18		103	4189	
413.00 > 169.00	2.667	2.671	-0.004	1.003	5189971		1.89(0.84-2.52)	103	19053	
* 62 13C2-PFOA										
415.00 > 370.00	2.660	2.671	-0.011		4175058	2.50			40390	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.678	-0.011	0.881	9359028	4.79		101	33235	
449.00 > 99.00	2.667	2.678	-0.011	0.881	2563857		3.65(1.94-5.82)	101	38695	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.028	3.034	-0.006	1.000	8047965	4.72		102	43056	
499.00 > 99.00	3.028	3.034	-0.006	1.000	1802235		4.47(2.31-6.93)	102	22880	
D 19 13C5 PFNA										
468.00 > 423.00	3.028	3.034	-0.006	1.138	3391733	2.50		100	34358	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.034	-0.006	1.138	3487989	2.44		102	21787	
20 Perfluorononanoic acid										
463.00 > 419.00	3.028	3.036	-0.008	1.000	7864000	5.38		108	14690	
463.00 > 169.00	3.028	3.036	-0.008	1.000	1959106		4.01(1.90-5.69)	108	34383	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.236	3.246	-0.010	1.069	13107538	4.75		102	123913	
D 21 13C8 FOSA										
506.00 > 78.00	3.347	3.357	-0.010	1.258	5147225	2.60		104	47884	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.355	3.358	-0.003	1.003	10065471	4.93		98.6	35100	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.374	3.379	-0.005	1.114	5733386	4.83		101	44981	
549.00 > 99.00	3.365	3.379	-0.014	1.111	2200645		2.61(1.33-3.97)	101	62707	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.374	3.382	-0.008	1.268	933375	2.30		96.0	16152	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.374	3.383	-0.009	1.000	2540408	4.93		103	44247	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.383	3.393	-0.010	1.000	6282630	5.07		101	19079	
513.00 > 169.00	3.383	3.393	-0.010	1.000	1061497		5.92(2.36-7.09)	101	18336	
D 23 13C2 PFDA										
515.00 > 470.00	3.383	3.393	-0.010	1.272	2973033	2.55		102	33594	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.533	3.543	-0.010	1.328	1780322	2.59		104	35346	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.542	3.551	-0.009	1.003	3622994	4.94		98.9	20880	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.702	-0.012	1.219	5394731	5.14		107	43279	
599.00 > 99.00	3.690	3.702	-0.012	1.219	1694363		3.18(1.39-4.16)	107	43713	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.700	3.713	-0.013	1.391	1673669	2.46		98.5	12091	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.721	-0.010	1.000	3978902	4.69		93.8	13217	
563.00 > 169.00	3.711	3.721	-0.010	1.000	991567		4.01(2.12-6.36)	93.8	18589	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.721	-0.010	1.003	3122896	5.17		103	35346	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.721	-0.010	1.395	2494182	2.54		102	28595	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.869	3.879	-0.010	1.278	19298262	4.58		97.3	137975	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.016	-0.006	1.000	5843687	5.11		102	5972	
613.00 > 169.00	4.010	4.016	-0.006	1.000	1393765		4.19(2.13-6.40)	102	24318	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.016	-0.006	1.508	2595125	2.47		98.8	13994	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.273	4.284	-0.011	1.066	6359926	4.99		99.8	6383	
663.00 > 169.00	4.273	4.284	-0.011	1.066	1946731		3.27(1.25-3.76)	99.8	24940	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.513	4.524	-0.011	1.697	3317852	2.59		104	14664	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.513	4.524	-0.011	1.000	1703041	4.74		94.8	18934	
713.00 > 219.00	4.503	4.524	-0.021	0.998	1188914		1.43(0.71-2.13)	94.8	12370	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.932	4.940	-0.008	1.854	6127474	2.58		103	12963	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.932	4.941	-0.009	1.000	11482097	4.91		98.2	4395	
813.00 > 169.00	4.932	4.941	-0.009	1.000	2014785		5.70(2.86-8.58)	98.2	10907	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.292	5.302	-0.010	1.073	14547117	5.10		102	3597	
913.00 > 169.00	5.285	5.302	-0.017	1.071	1905404		7.63(3.83-11.48)	102	9842	

Reagents:

LCPFC_LL6_00006 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_007.d

Injection Date: 05-Jul-2018 09:30:26 Instrument ID: A8_N

Lims ID: IC L6 Full

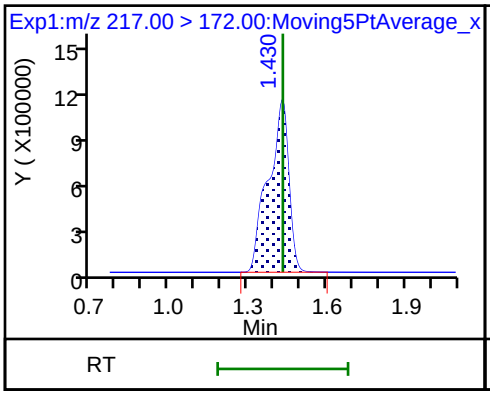
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

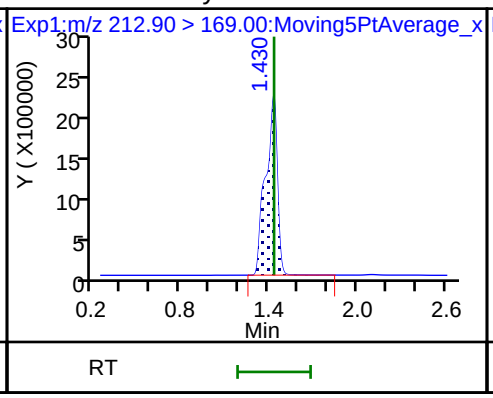
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

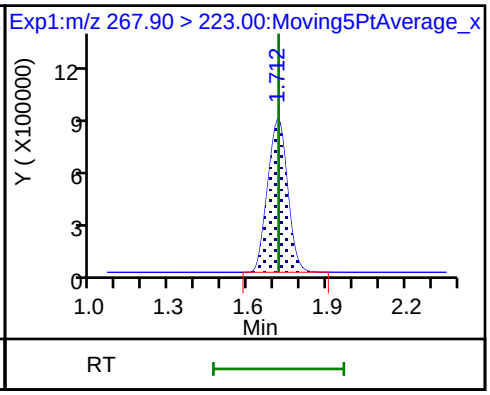
D 1 13C4 PFBA



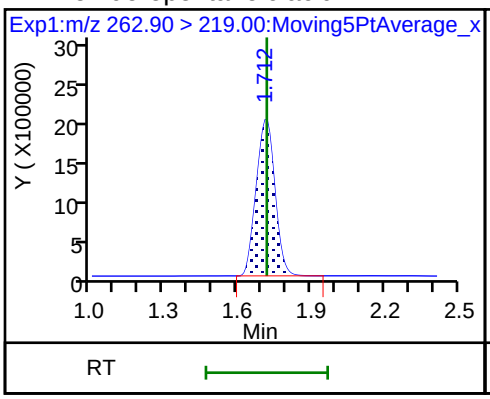
2 Perfluorobutyric acid



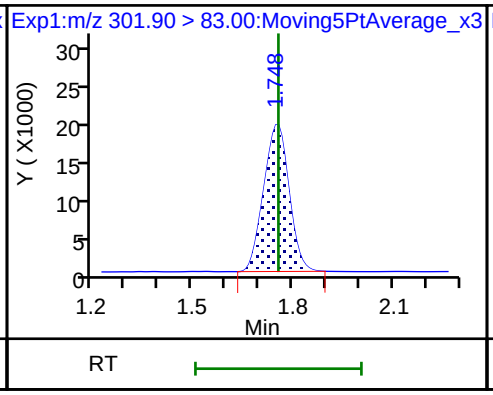
D 3 13C5-PFPeA



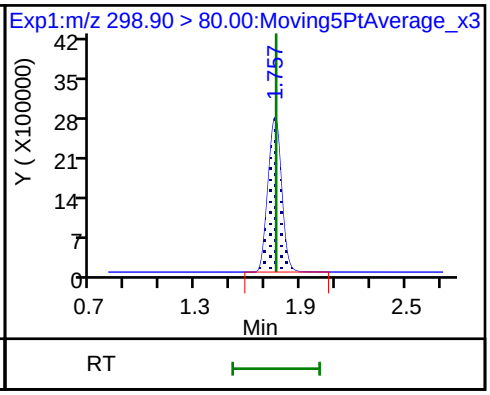
4 Perfluoropentanoic acid



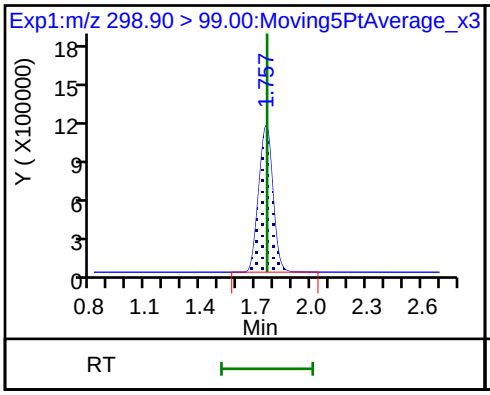
D 47 13C3-PFBS



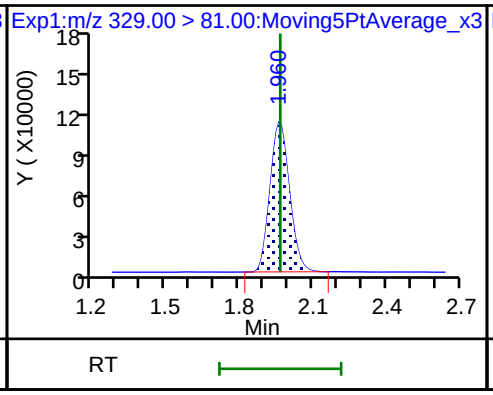
5 Perfluorobutanesulfonic acid



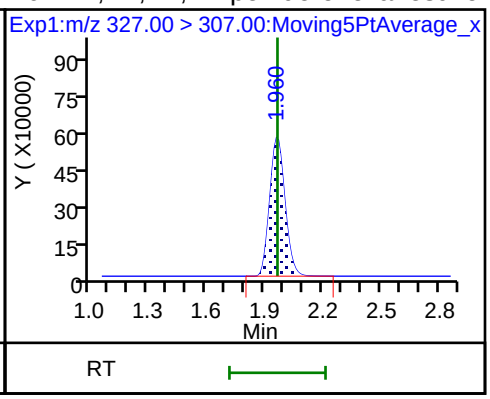
5 Perfluorobutanesulfonic acid



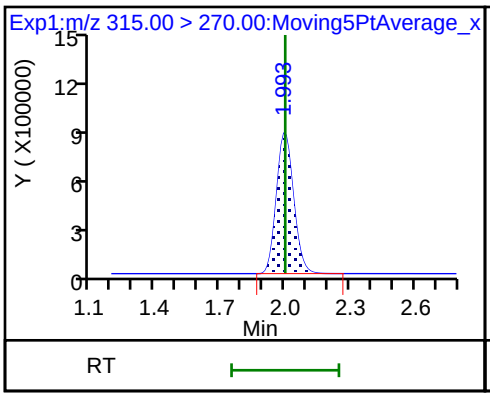
D 60 M2-4:2FTS



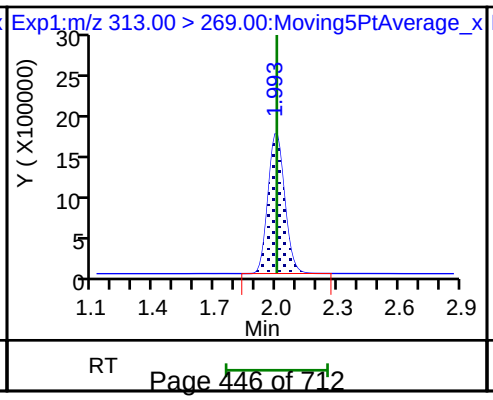
61 1H,1H,2H,2H-perfluorohexanesulfoni



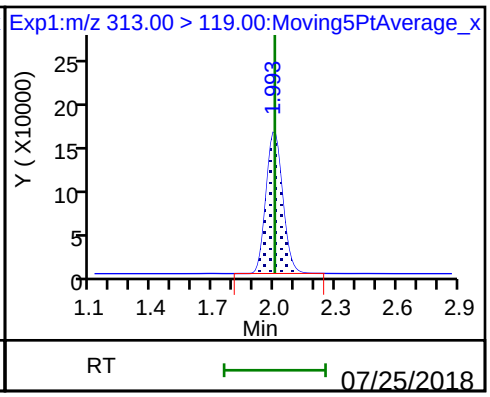
D 7 13C2 PFHxA



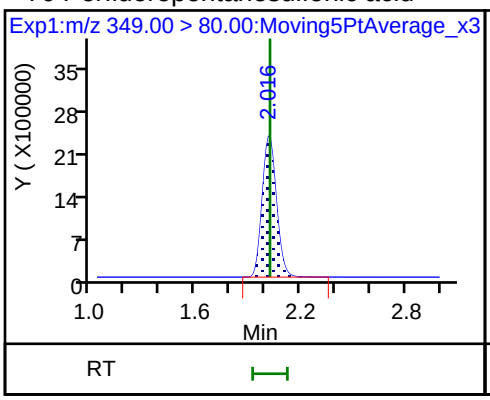
6 Perfluorohexanoic acid



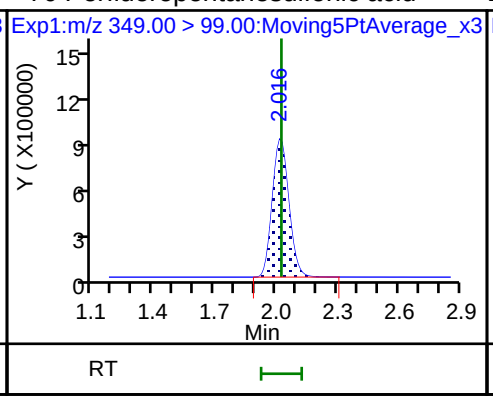
6 Perfluorohexanoic acid



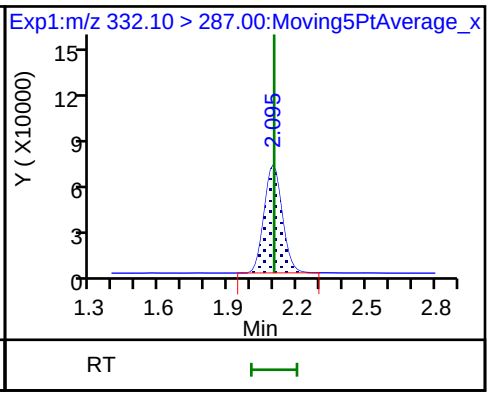
70 Perfluoropentanesulfonic acid



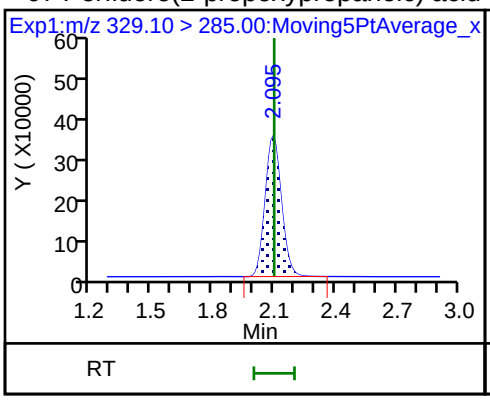
70 Perfluoropentanesulfonic acid



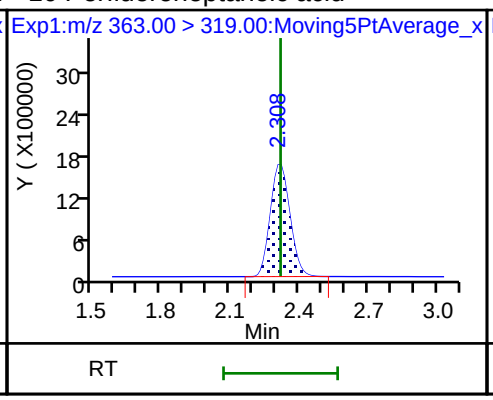
D 64 13C3 HFPO-DA



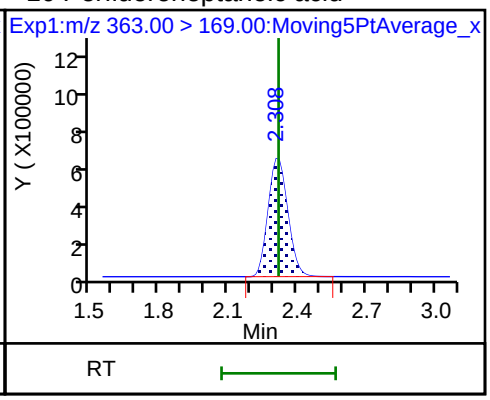
67 Perfluoro(2-propoxypropanoic) acid



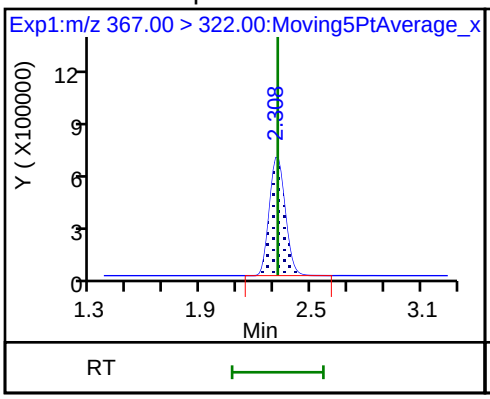
10 Perfluoroheptanoic acid



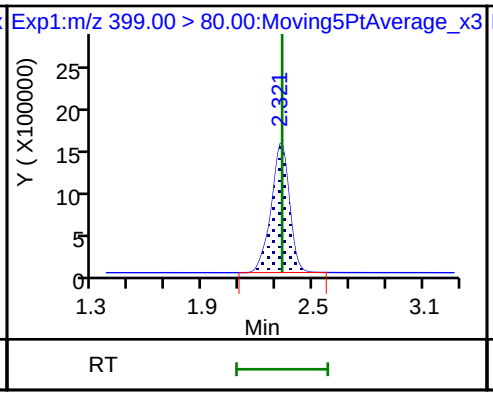
10 Perfluoroheptanoic acid



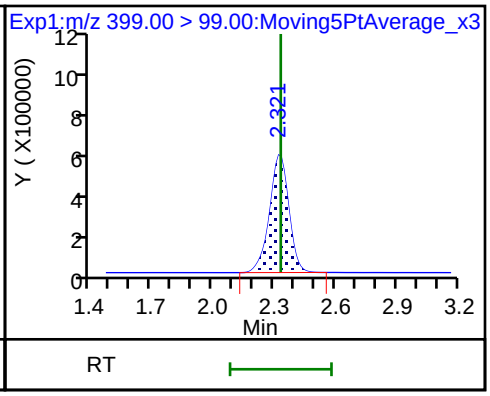
D 9 13C4-PFHpA



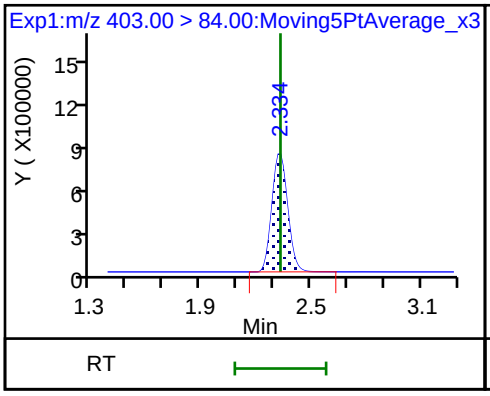
8 Perfluorohexanesulfonic acid



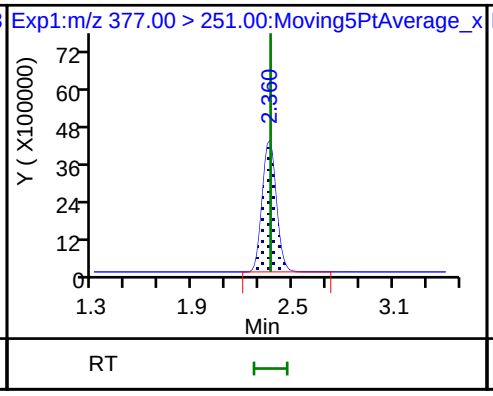
8 Perfluorohexanesulfonic acid



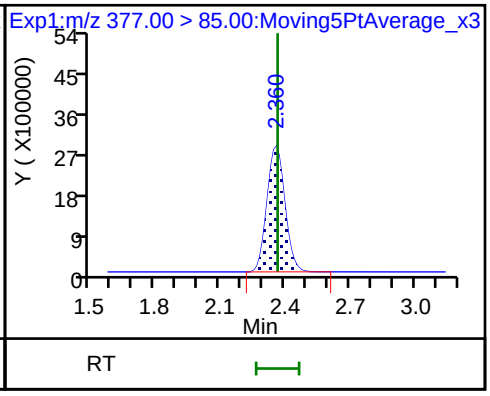
D 11 18O2 PFHxS



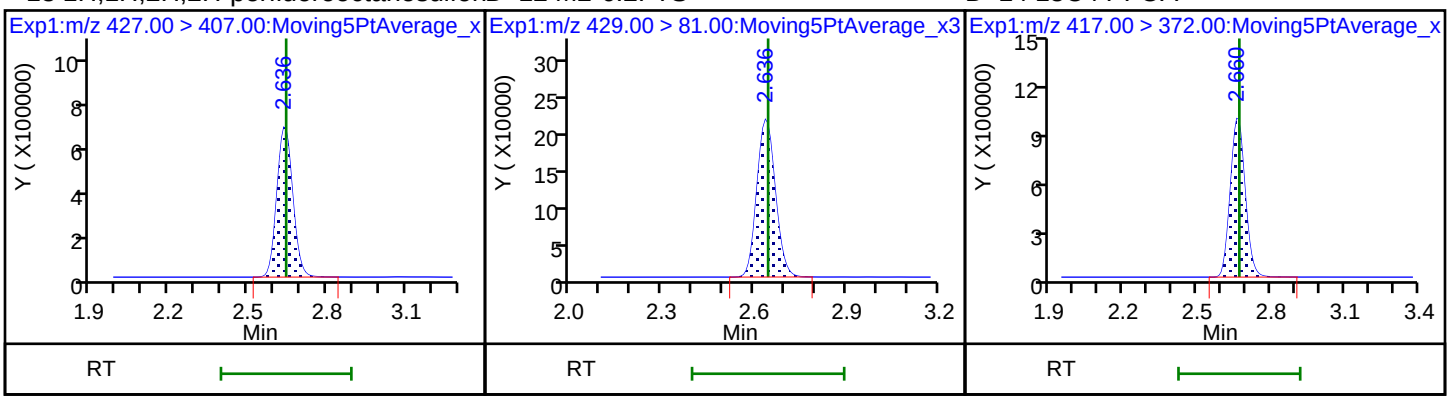
65 Adona



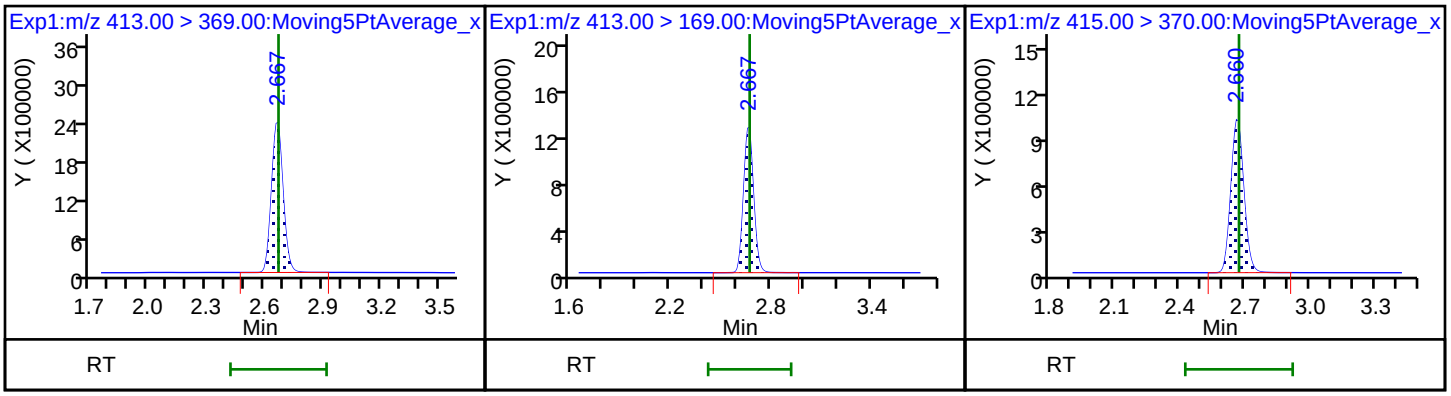
65 Adona



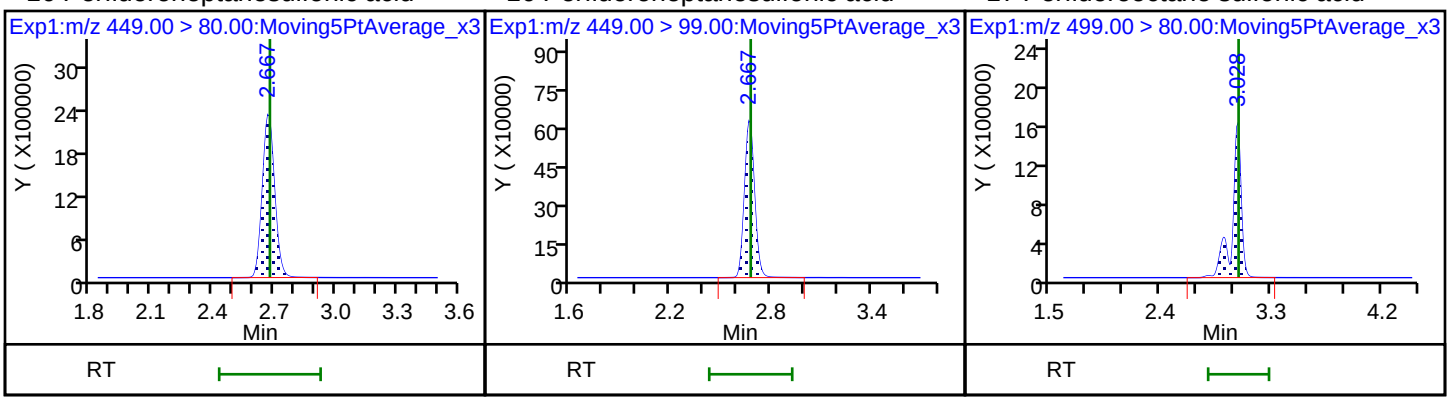
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



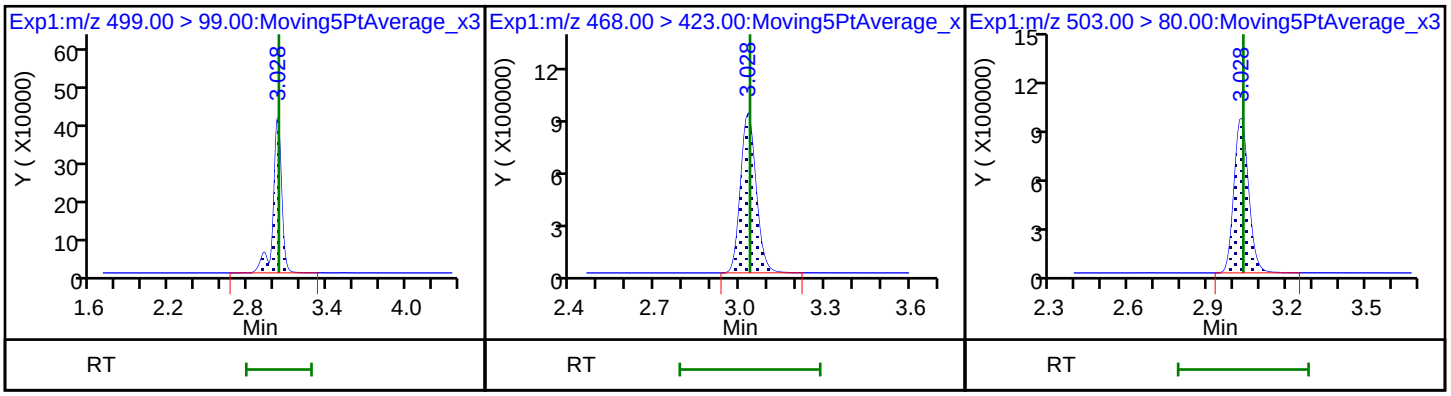
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



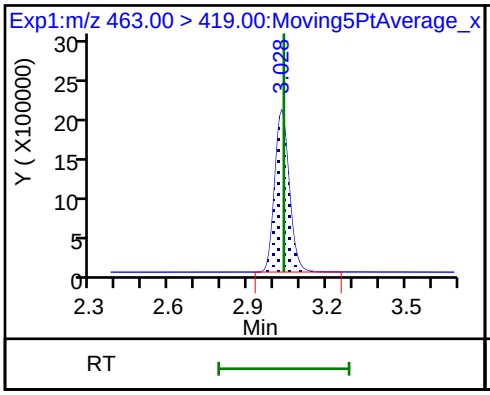
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



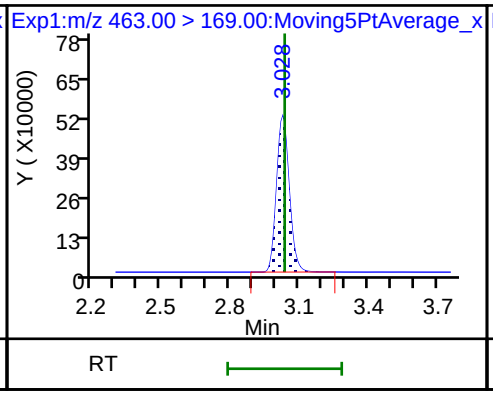
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



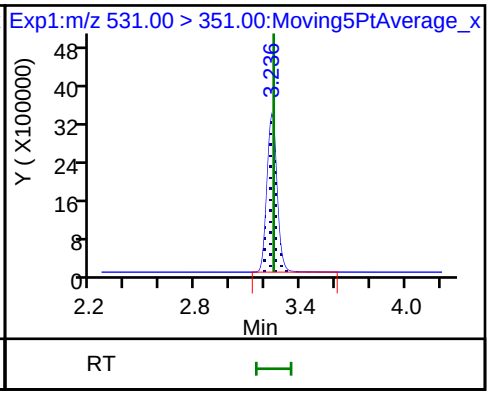
20 Perfluorononanoic acid



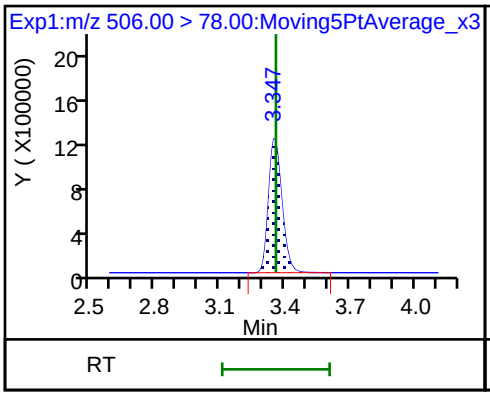
20 Perfluorononanoic acid



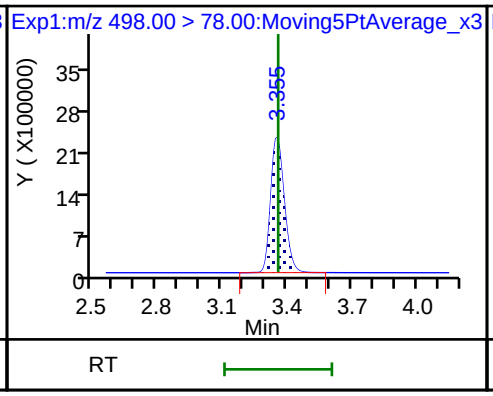
69 9-Chlorohexadecafluoro-3-oxanonane



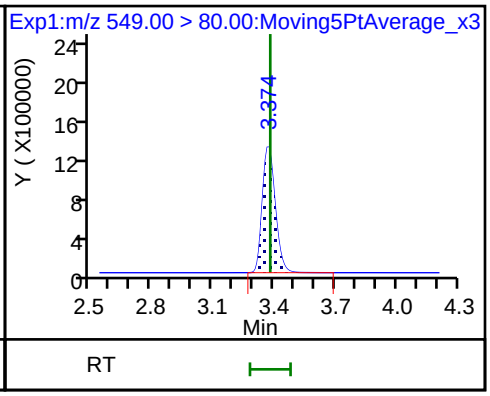
D 21 13C8 FOSA



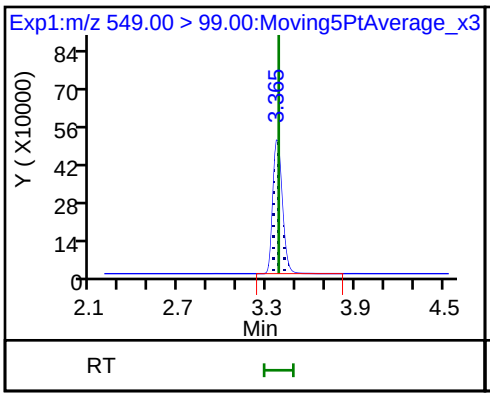
22 Perfluorooctane Sulfonamide



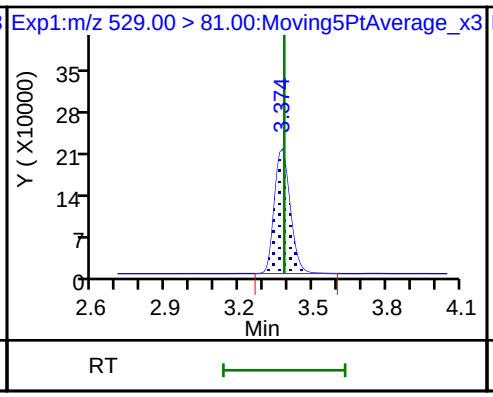
68 Perfluorononanesulfonic acid



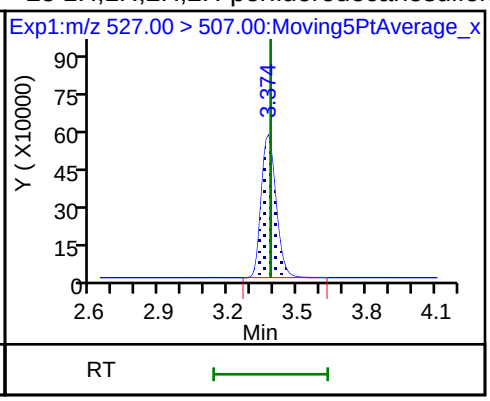
68 Perfluorononanesulfonic acid



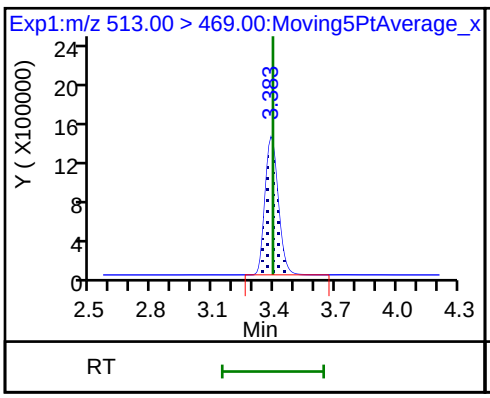
D 26 M2-8:2FTS



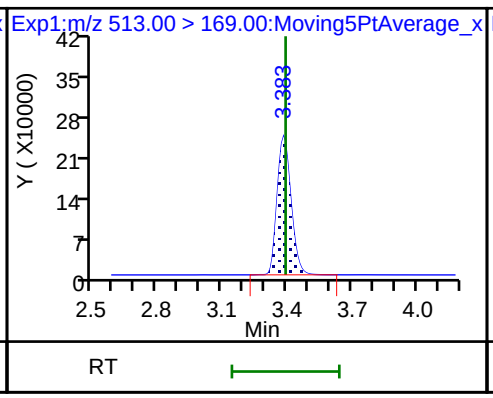
25 1H,1H,2H,2H-perfluorodecanesulfoni



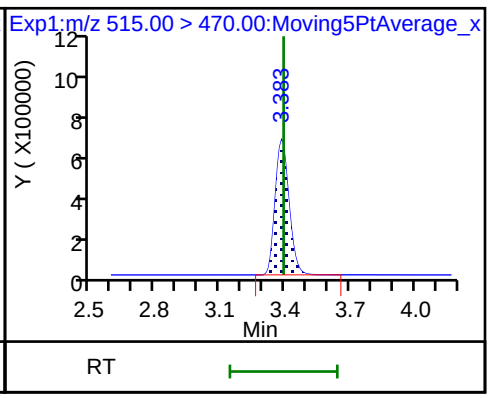
24 Perfluorodecanoic acid



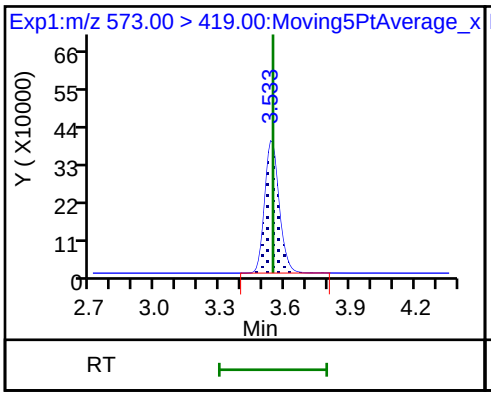
24 Perfluorodecanoic acid



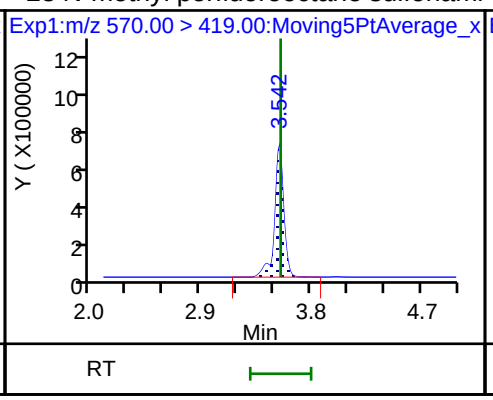
D 23 13C2 PFDA



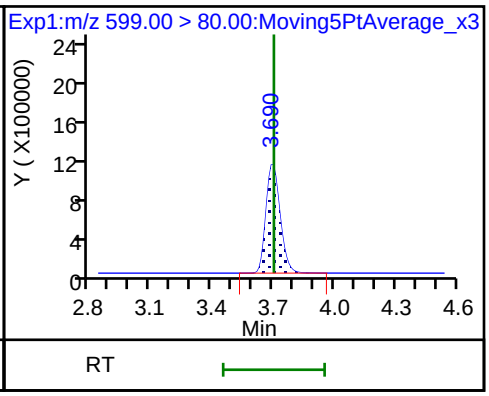
D 27 d3-NMeFOSAA



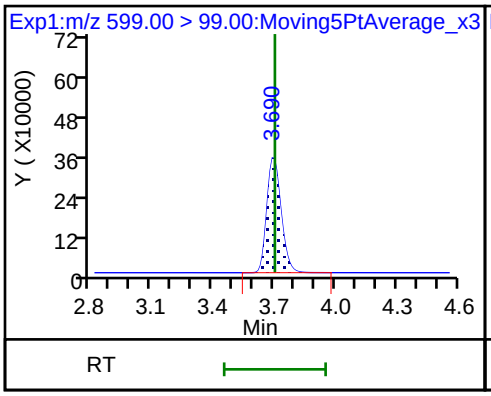
28 N-methyl perfluorooctane sulfonami



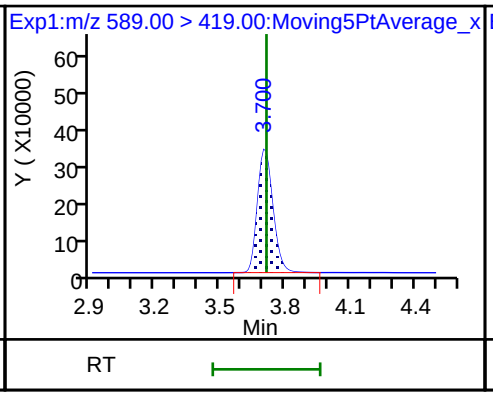
29 Perfluorodecane Sulfonic acid



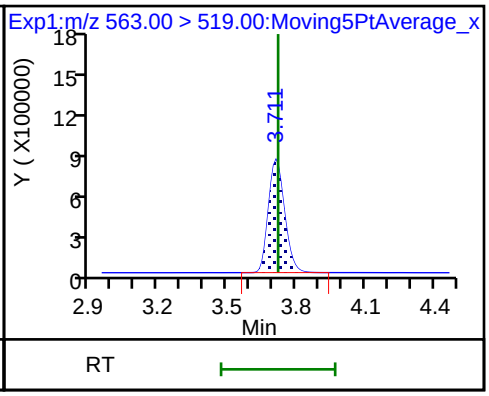
29 Perfluorodecane Sulfonic acid



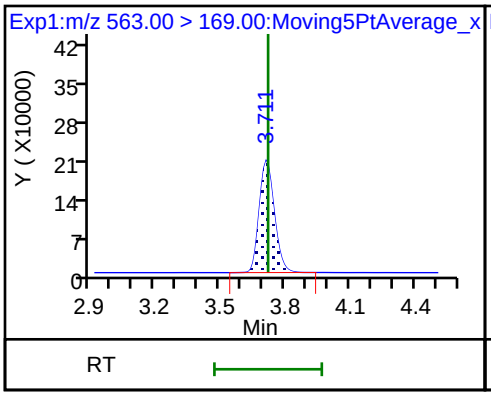
D 32 d5-NEtFOSAA



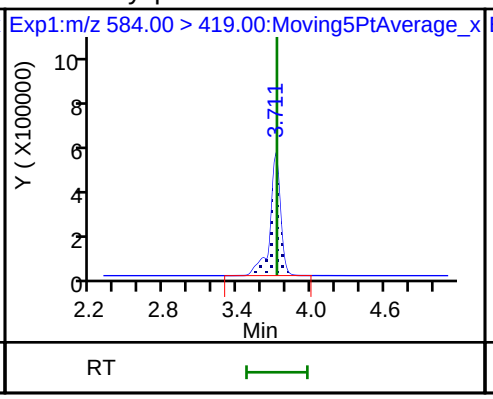
31 Perfluoroundecanoic acid



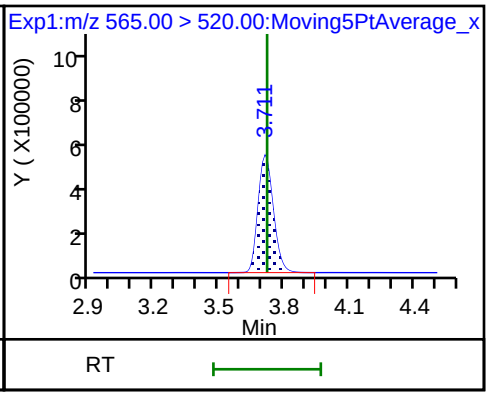
31 Perfluoroundecanoic acid



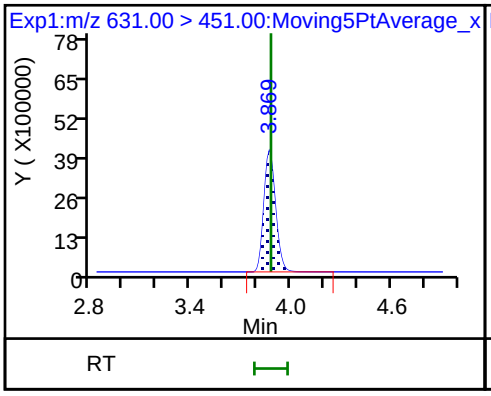
33 N-ethyl perfluorooctane sulfonamid



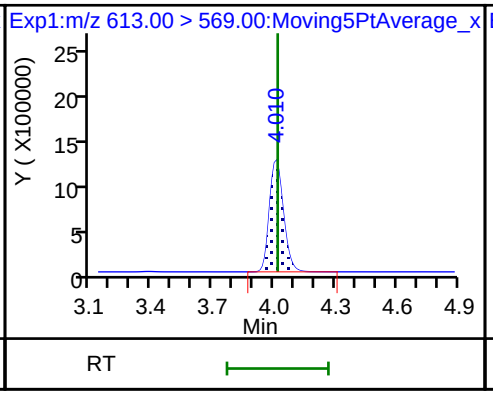
D 30 13C2 PFUnA



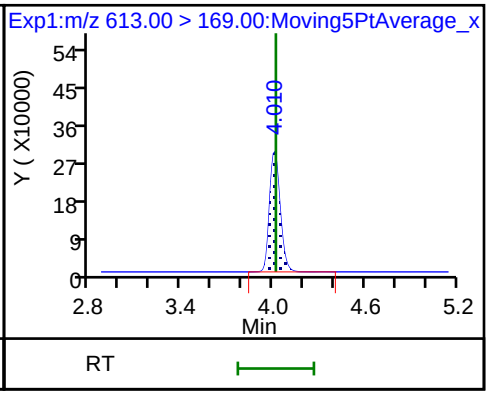
66 11-Chloroeicosafluoro-3-oxaundecan



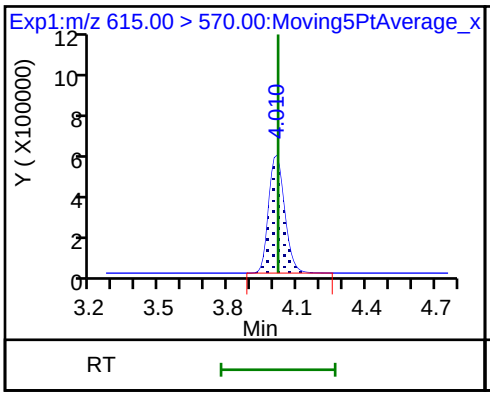
37 Perfluorododecanoic acid



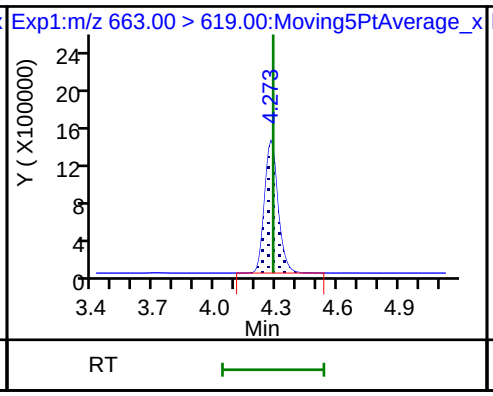
37 Perfluorododecanoic acid



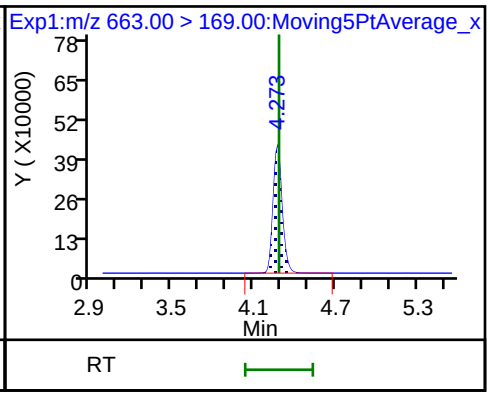
D 36 13C2 PFDoA



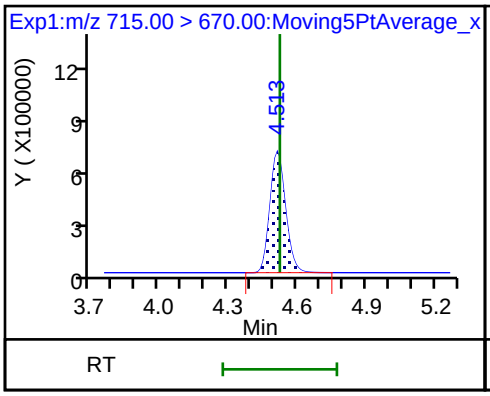
41 Perfluorotridecanoic acid



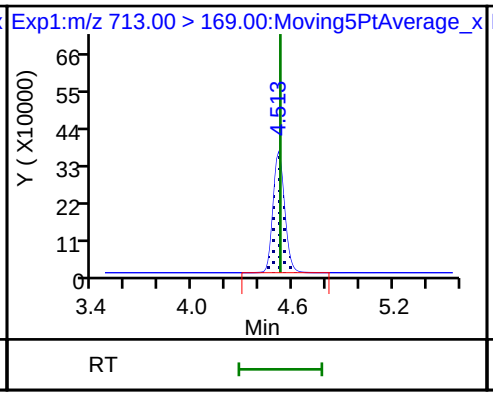
41 Perfluorotridecanoic acid



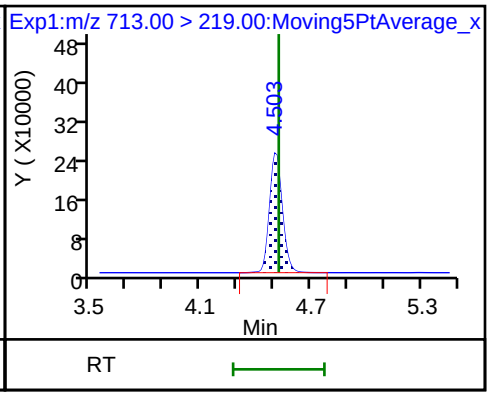
D 43 13C2-PFTeDA



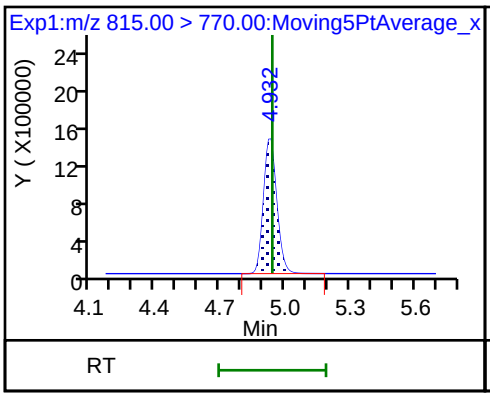
42 Perfluorotetradecanoic acid



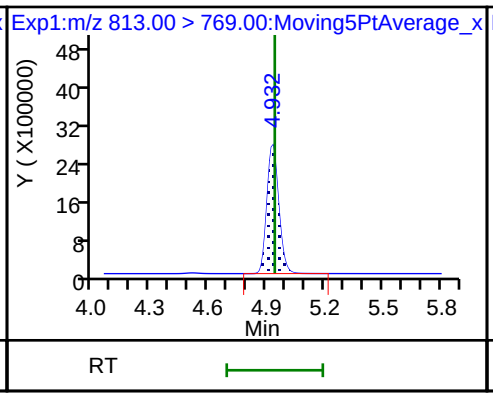
42 Perfluorotetradecanoic acid



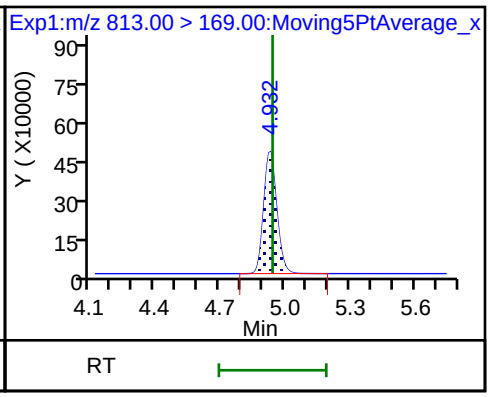
D 44 13C2-PFHxDA



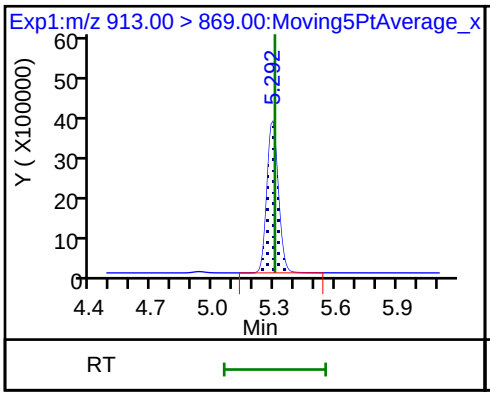
45 Perfluorohexadecanoic acid



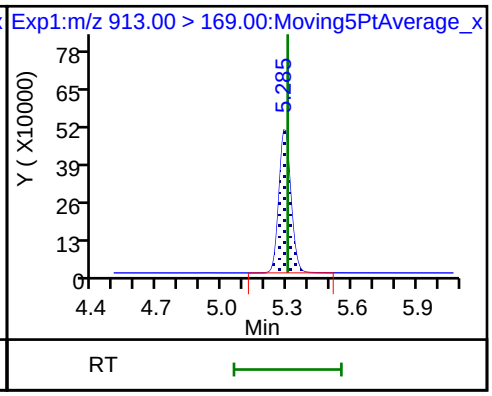
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Jul-2018 09:38:17 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:08 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:14:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.537	6236338	2.64		105	24595	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	24301343	9.54		95.4	8385	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.643	4455207	2.54		102	47432	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.719	-0.003	1.000	20231845	9.53		95.3	15332	
D 47 13C3-PFBS										
301.90 > 83.00	1.752	1.756	-0.004	0.657	101003	2.41		104	713	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.005	26720886	8.11		91.8	98810	
298.90 > 99.00	1.761	1.760	0.001	1.005	11741638		2.28(1.25-3.74)	91.8	101674	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.737	659919	2.45		105	9393	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.122	5926931	8.70		93.1	182167	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.749	4784020	2.55		102	54735	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.999	2.002	-0.003	1.000	18820721	9.66		96.6	37072	
313.00 > 119.00	1.999	2.002	-0.003	1.000	1782628		10.56(5.03-15.10)	96.6	32241	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.025	-0.003	1.154	23714616	8.42		89.7	114113	
349.00 > 99.00	2.022	2.025	-0.003	1.154	9818889		2.42(1.36-4.07)	89.7	74538	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.788	441540	2.87		115	7439	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	3672079	9.04		90.4	24798	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.318	-0.003	1.000	17433793	8.96		89.6	19089	
363.00 > 169.00	2.315	2.318	-0.003	1.000	7593095		2.30(1.13-3.40)	89.6	41699	
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.318	-0.003	0.868	4305905	2.59		103	35067	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.328	2.331	-0.003	1.000	19602527	8.64		94.9	42428	
399.00 > 99.00	2.328	2.331	-0.003	1.000	7247472		2.70(1.50-4.49)	94.9	22800	
D 11 18O2 PFHxS										
403.00 > 84.00	2.328	2.333	-0.005	0.873	4642819	2.27		95.9	28231	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.782	40084780	7.51		79.7	68194	
377.00 > 85.00	2.368	2.365	0.003	0.782	27231082		1.47(0.84-2.53)	79.7	76354	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.645	0.0	1.000	5371036	9.51		100	22759	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	856056	2.29		96.5	14664	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.670	-0.002	1.000	4086844	2.51		100	29283	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.671	-0.003	1.000	18026746	9.30		92.9	8216	
413.00 > 169.00	2.668	2.671	-0.003	1.000	9722024		1.85(0.84-2.52)	92.9	40626	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.671	-0.003		4273995	2.50			30819	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.883	17877757	9.27		97.4	103542	
449.00 > 99.00	2.675	2.678	-0.003	0.883	5089491		3.51(1.94-5.82)	97.4	124731	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.029	3.034	-0.005	1.000	15767090	9.37		101	39551	
499.00 > 99.00	3.029	3.034	-0.005	1.000	3509122		4.49(2.31-6.93)	101	28546	
D 19 13C5 PFNA										
468.00 > 423.00	3.029	3.034	-0.005	1.135	3524695	2.54		102	43789	
D 18 13C4 PFOS										
503.00 > 80.00	3.029	3.034	-0.005	1.135	3441443	2.35		98.5	22621	
20 Perfluorononanoic acid										
463.00 > 419.00	3.029	3.036	-0.007	1.000	14824538	9.76		97.6	28217	
463.00 > 169.00	3.029	3.036	-0.007	1.000	3920101		3.78(1.90-5.69)	97.6	203427	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.246	-0.002	1.071	23819619	8.75		93.9	109480	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.258	4912326	2.42		96.8	39113	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	18768991	9.63		96.3	109747	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.376	3.379	-0.003	1.115	11100681	9.49		98.8	62308	
549.00 > 99.00	3.376	3.379	-0.003	1.115	4125927		2.69(1.33-3.97)	98.8	71242	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.376	3.382	-0.006	1.265	908289	2.19		91.3	13581	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.376	3.383	-0.007	1.000	4929744	9.84		103	84731	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.385	3.393	-0.008	1.000	12003817	10.2		102	36647	
513.00 > 169.00	3.385	3.393	-0.008	1.000	2074529		5.79(2.36-7.09)	102	42255	
D 23 13C2 PFDA										
515.00 > 470.00	3.385	3.393	-0.008	1.269	2835454	2.37		94.9	28852	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.535	3.543	-0.008	1.325	1836553	2.61		104	26799	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.544	3.551	-0.007	1.003	7199550	9.52		95.2	42030	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.694	3.702	-0.008	1.220	10090938	9.74		101	230854	
599.00 > 99.00	3.694	3.702	-0.008	1.220	3279452		3.08(1.39-4.16)	101	84106	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.705	3.713	-0.008	1.389	1656649	2.38		95.2	13918	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.715	3.721	-0.006	1.000	8101412	9.88		98.8	27557	
563.00 > 169.00	3.715	3.721	-0.006	1.000	2010700		4.03(2.12-6.36)	98.8	29277	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.715	3.721	-0.006	1.003	5685758	9.52		95.2	36655	
D 30 13C2 PFUnA										
565.00 > 520.00	3.715	3.721	-0.006	1.393	2411181	2.40		96.1	23453	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.873	3.879	-0.006	1.279	33573732	8.08		85.8	568422	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.006	4.016	-0.010	1.000	11402368	9.64		96.4	10558	
613.00 > 169.00	4.006	4.016	-0.010	1.000	2757575		4.13(2.13-6.40)	96.4	26108	
D 36 13C2 PFDoA										
615.00 > 570.00	4.006	4.016	-0.010	1.502	2682397	2.49		99.7	14047	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.279	4.284	-0.005	1.068	12175469	9.24		92.4	10602	
663.00 > 169.00	4.279	4.284	-0.005	1.068	4071287		2.99(1.25-3.76)	92.4	25179	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.521	4.524	-0.003	1.695	3133566	2.39		95.6	13285	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.521	4.524	-0.003	1.000	3354737	9.88		98.8	24856	
713.00 > 219.00	4.511	4.524	-0.013	0.998	2302197		1.46(0.71-2.13)	98.8	15045	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.930	4.940	-0.010	1.848	5779000	2.38		95.2	13310	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.930	4.941	-0.011	1.000	20680874	9.40		94.0	7306	
813.00 > 169.00	4.930	4.941	-0.011	1.000	3850814		5.37(2.86-8.58)	94.0	15076	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.291	5.302	-0.011	1.073	24976341	9.28		92.8	5397	
913.00 > 169.00	5.291	5.302	-0.011	1.073	3473288		7.19(3.83-11.48)	92.8	13301	

Reagents:

LCPFC_LL7_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:09 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Injection Date: 05-Jul-2018 09:38:17 Instrument ID: A8_N

Lims ID: IC L7 Full

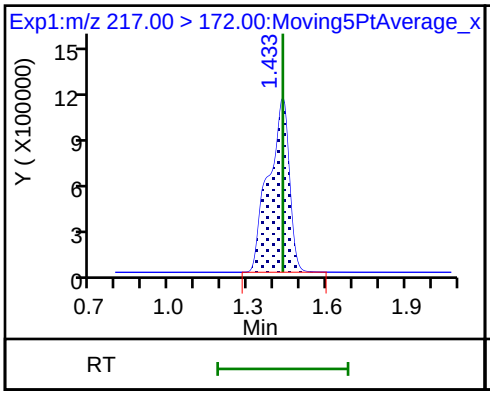
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

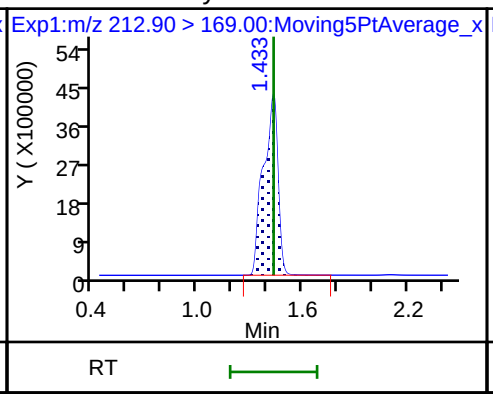
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

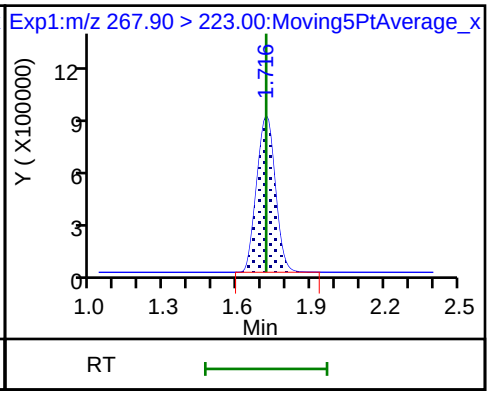
D 1 13C4 PFBA



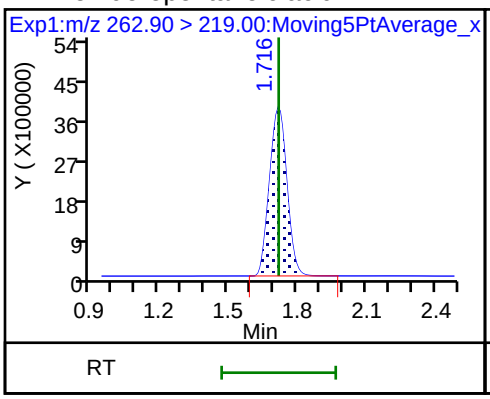
2 Perfluorobutyric acid



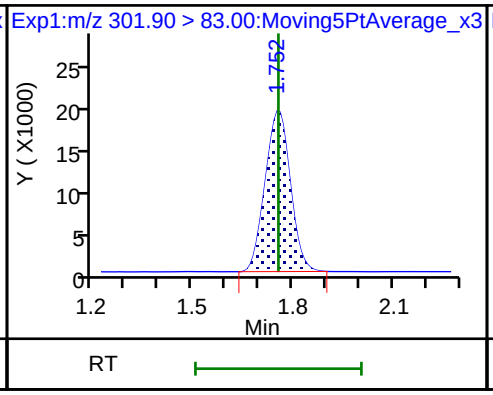
D 3 13C5-PFPeA



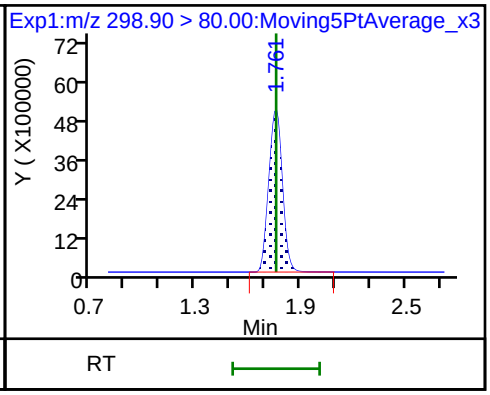
4 Perfluoropentanoic acid



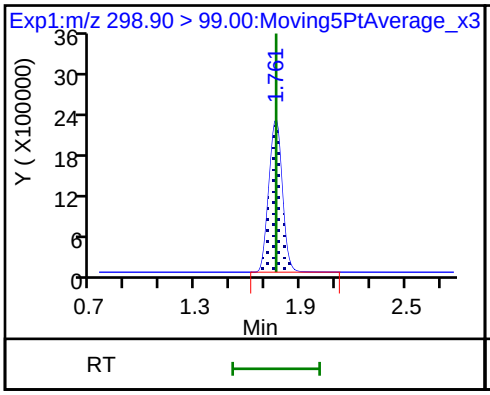
D 47 13C3-PFBS



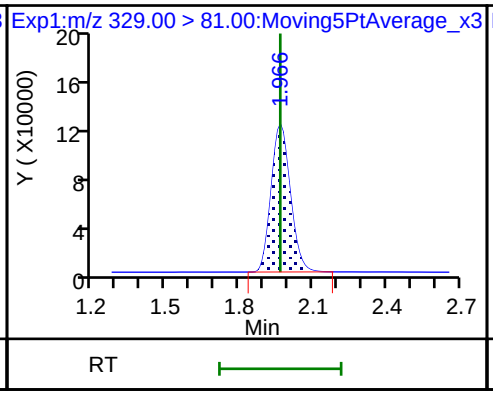
5 Perfluorobutanesulfonic acid



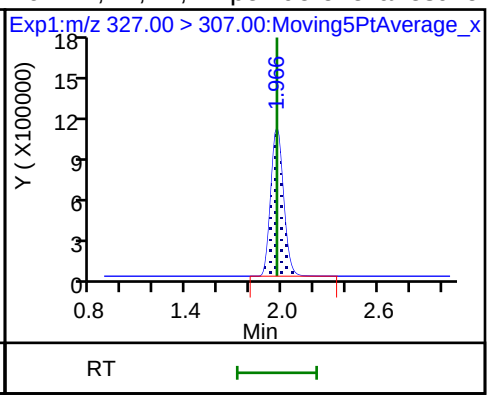
5 Perfluorobutanesulfonic acid



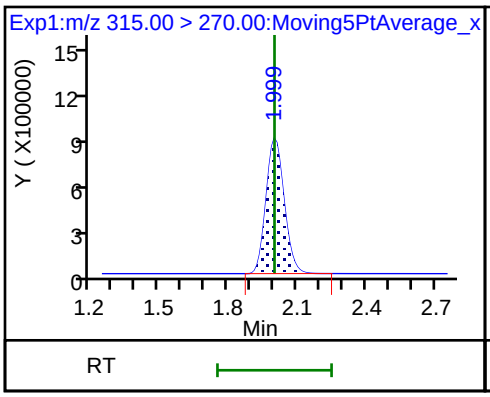
D 60 M2-4:2FTS



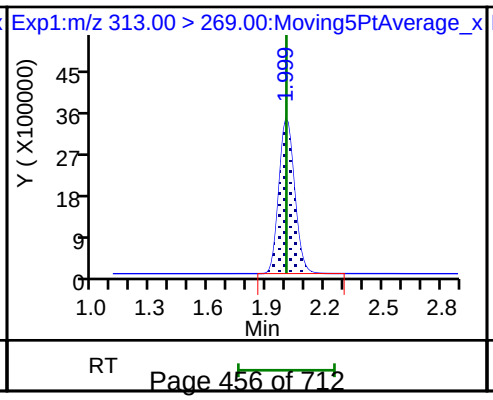
61 1H,1H,2H,2H-perfluorohexanesulfoni



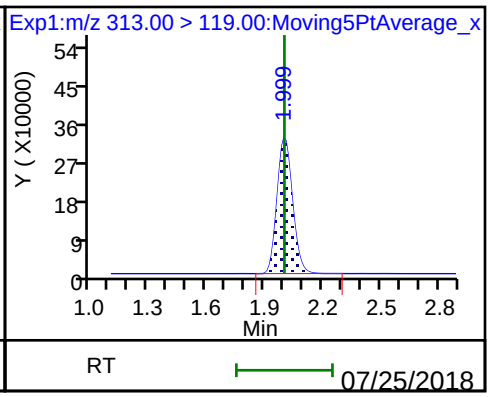
D 7 13C2 PFHxA



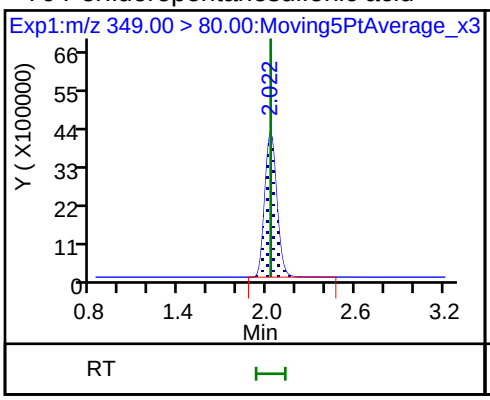
6 Perfluorohexanoic acid



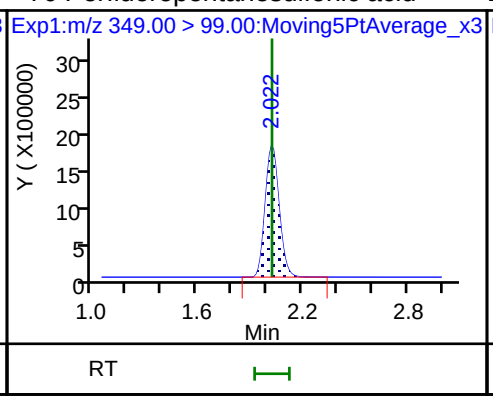
6 Perfluorohexanoic acid



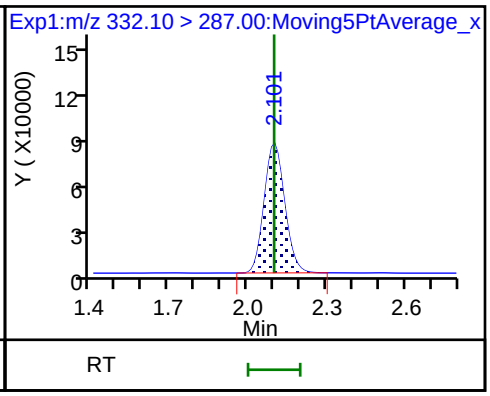
70 Perfluoropentanesulfonic acid



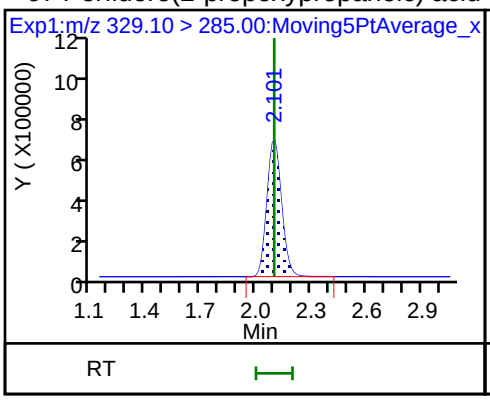
70 Perfluoropentanesulfonic acid



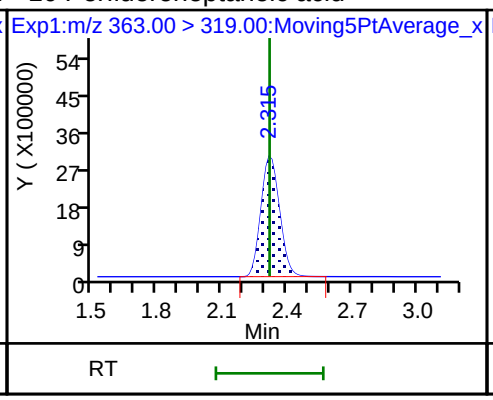
D 64 13C3 HFPO-DA



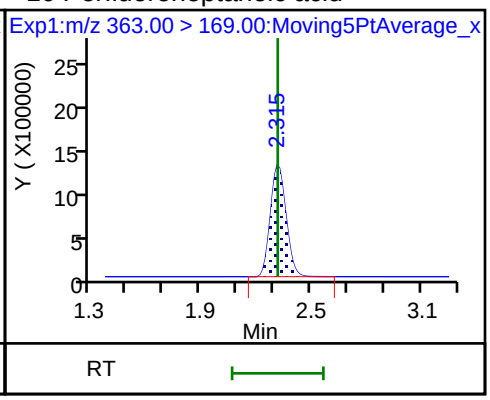
67 Perfluoro(2-propoxypropanoic) acid



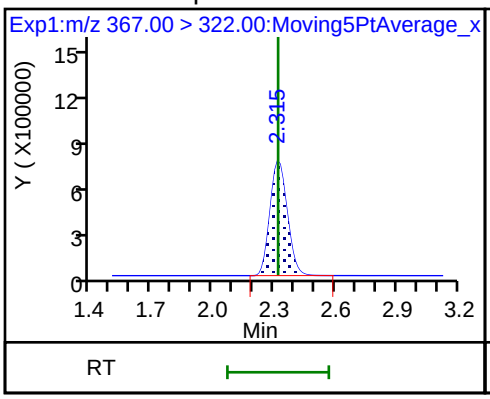
10 Perfluoroheptanoic acid



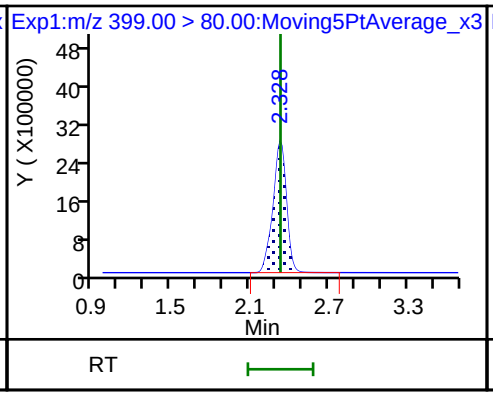
10 Perfluoroheptanoic acid



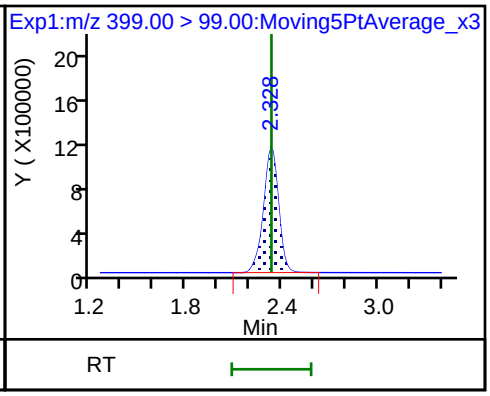
D 9 13C4-PFHpA



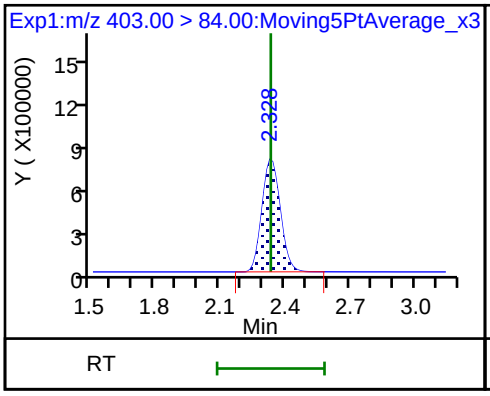
8 Perfluorohexanesulfonic acid



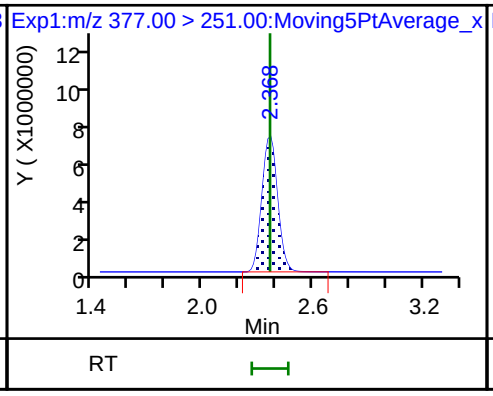
8 Perfluorohexanesulfonic acid



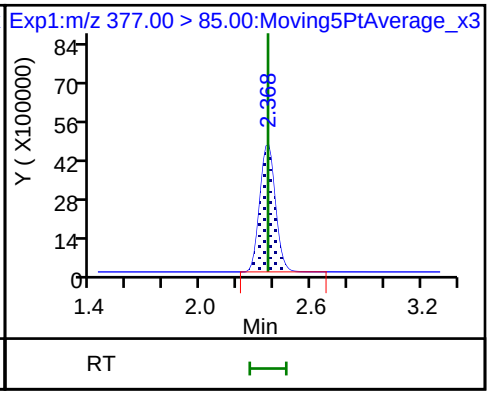
D 11 18O2 PFHxS



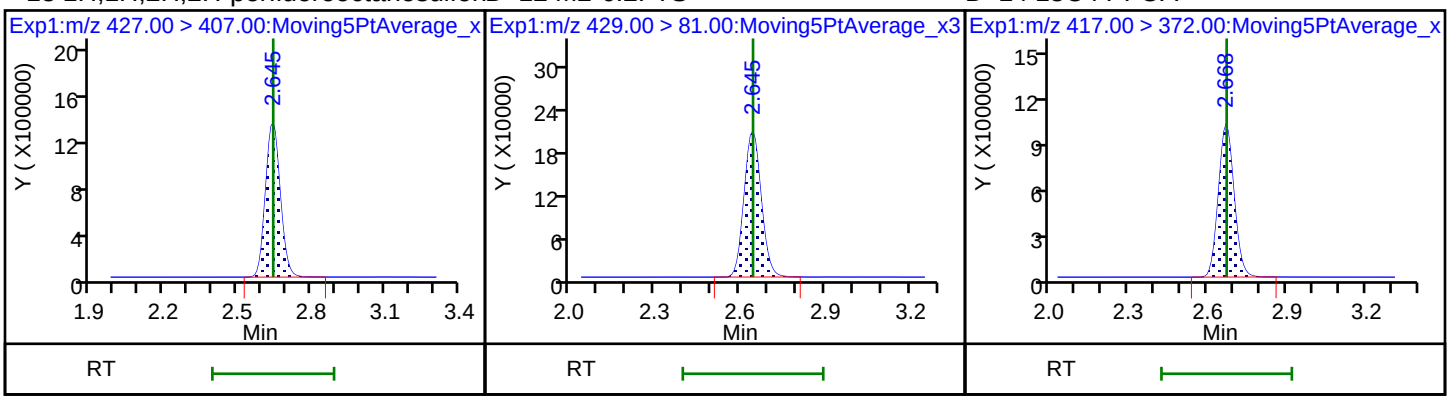
65 Adona



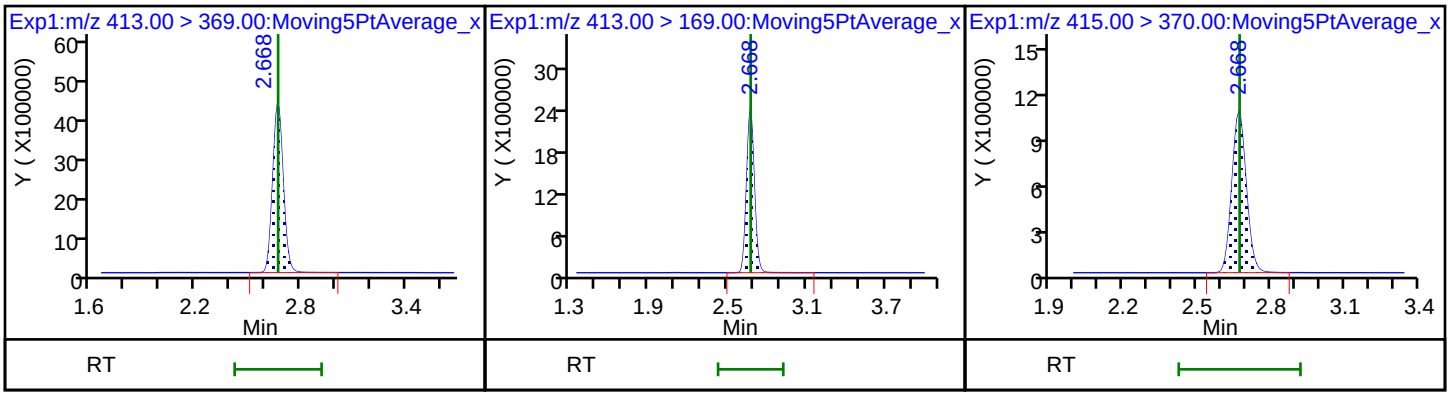
65 Adona



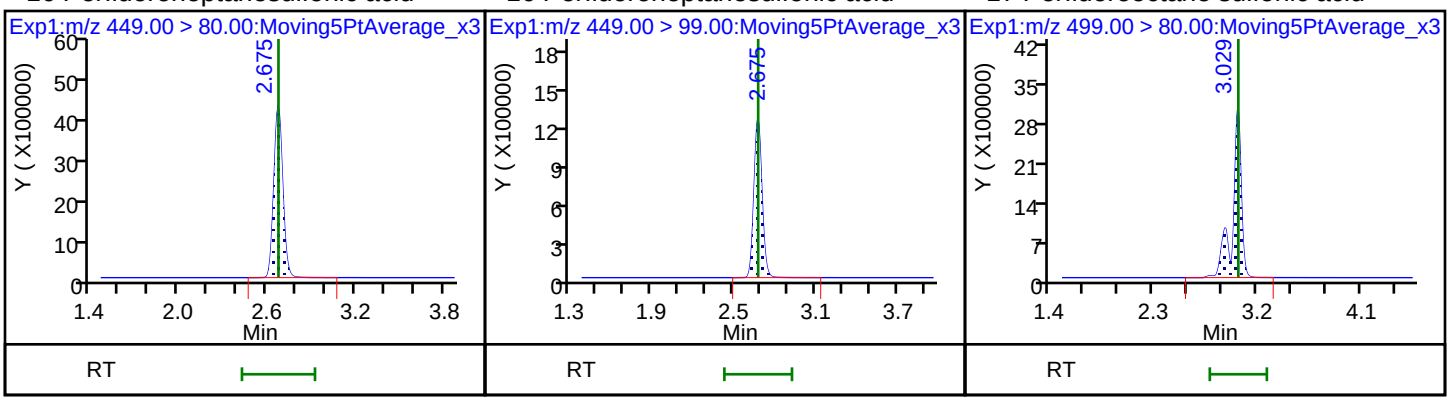
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



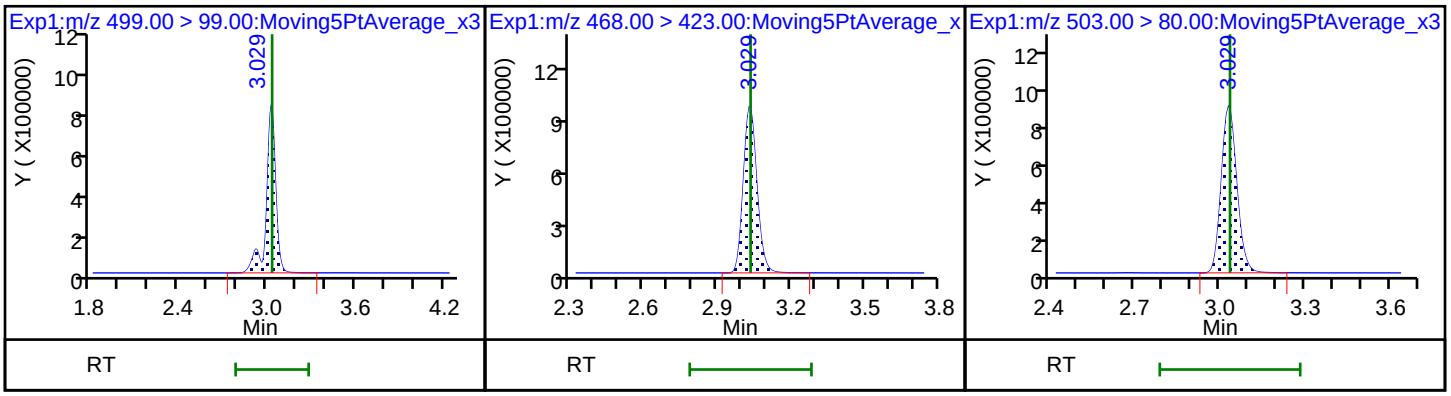
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



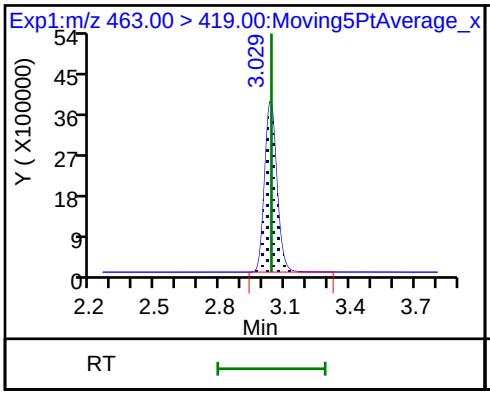
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



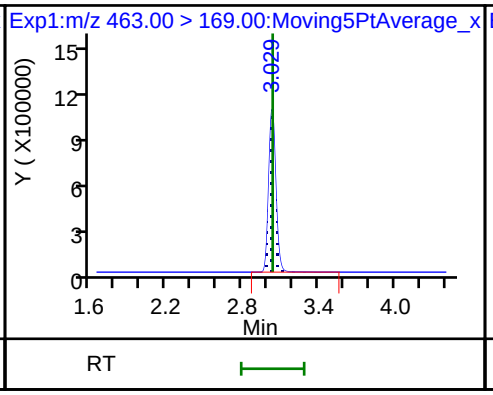
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



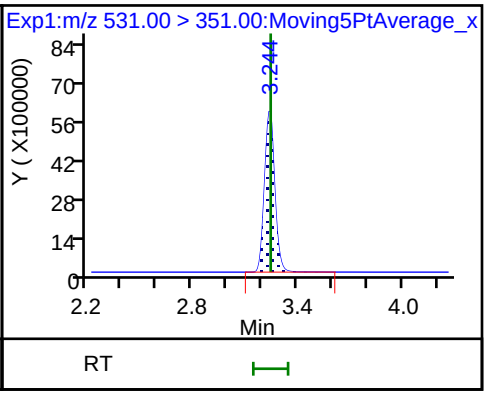
20 Perfluorononanoic acid



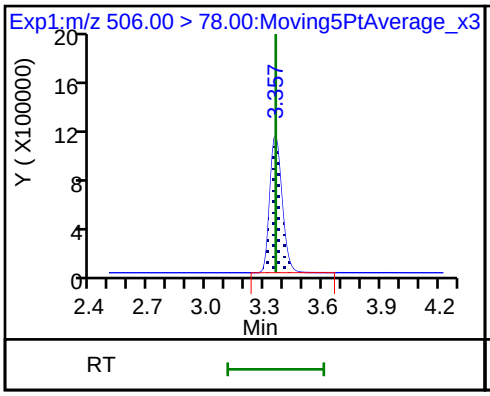
20 Perfluorononanoic acid



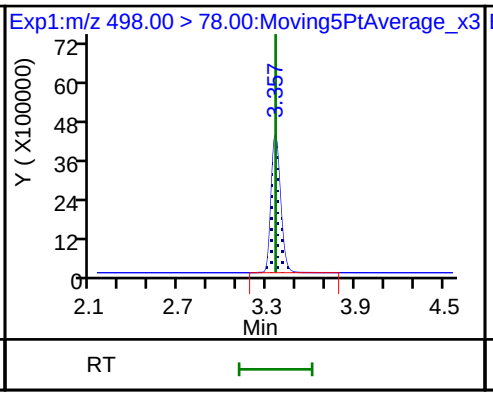
69 9-Chlorohexadecafluoro-3-oxanonane



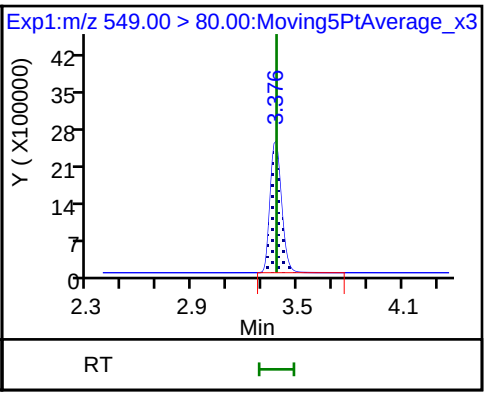
D 21 13C8 FOSA



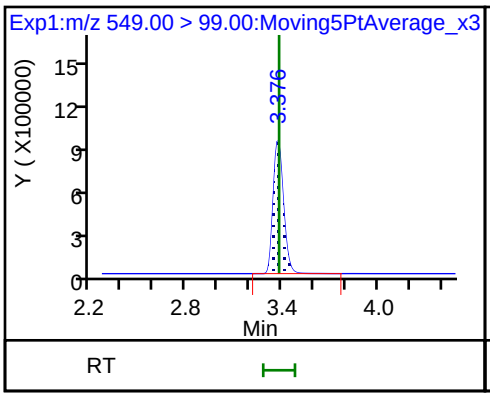
22 Perfluorooctane Sulfonamide



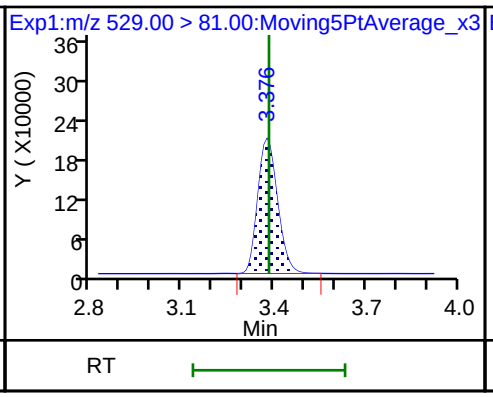
68 Perfluorononanesulfonic acid



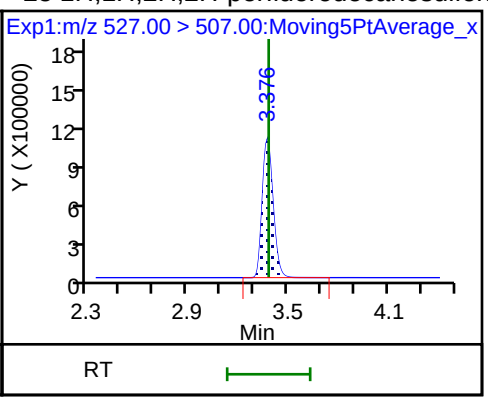
68 Perfluorononanesulfonic acid



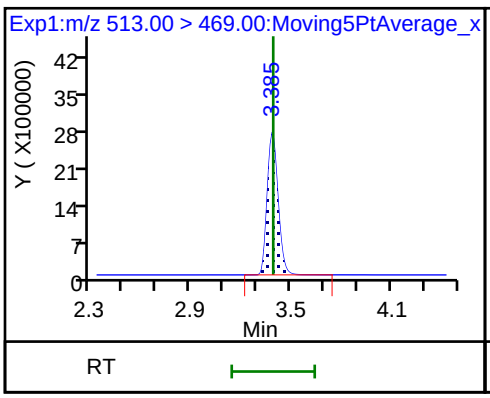
D 26 M2-8:2FTS



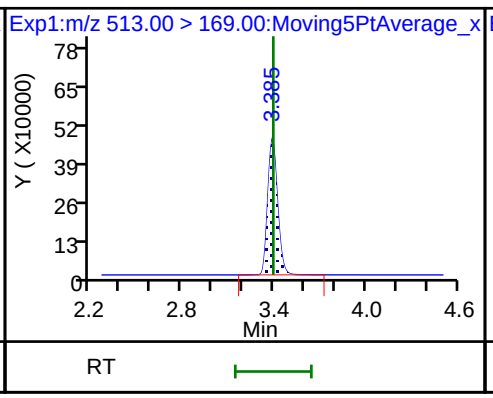
25 1H,1H,2H,2H-perfluorodecanesulfoni



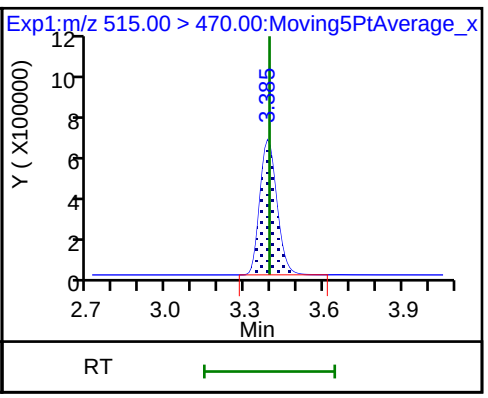
24 Perfluorodecanoic acid



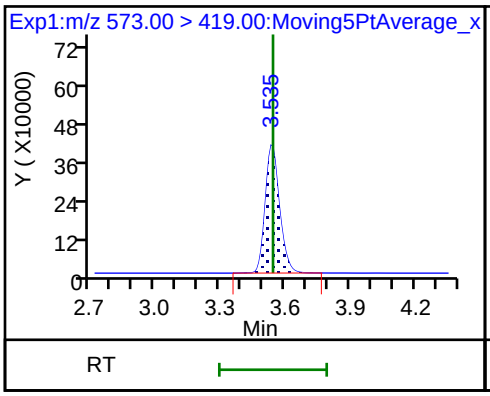
24 Perfluorodecanoic acid



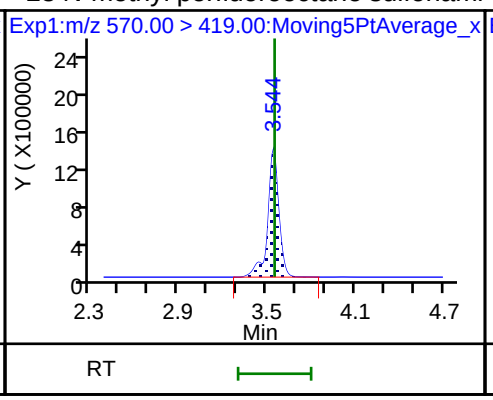
D 23 13C2 PFDA



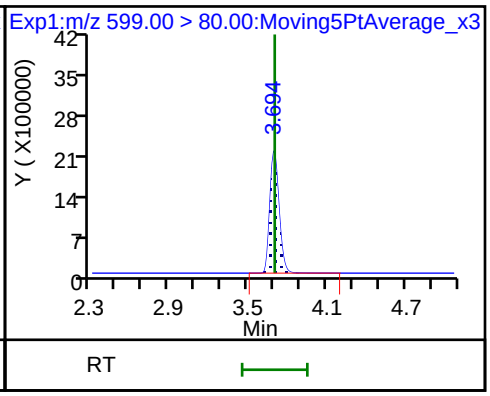
D 27 d3-NMeFOSAA



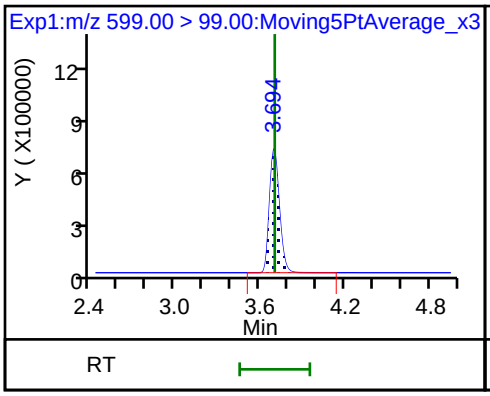
28 N-methyl perfluorooctane sulfonami



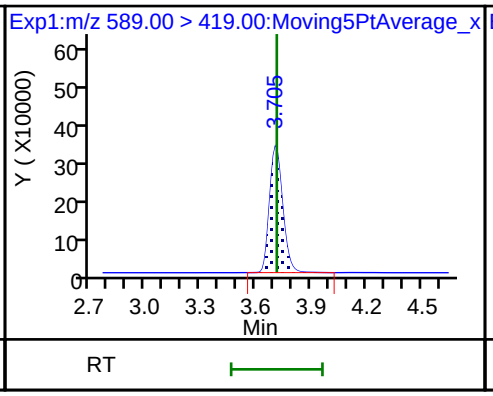
29 Perfluorodecane Sulfonic acid



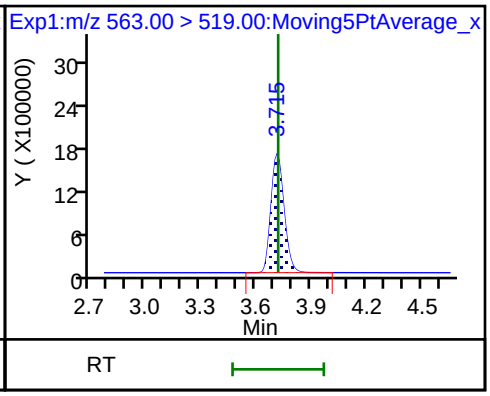
29 Perfluorodecane Sulfonic acid



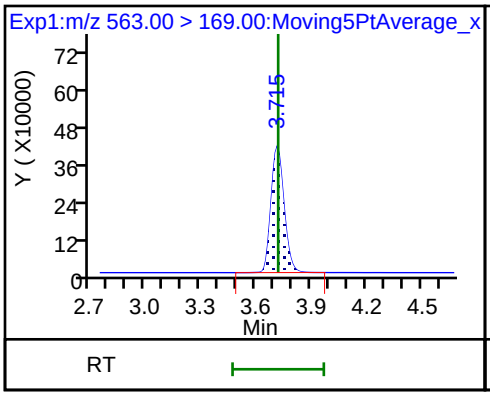
D 32 d5-NEtFOSAA



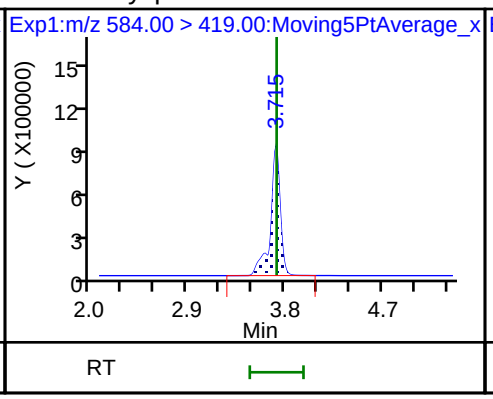
31 Perfluoroundecanoic acid



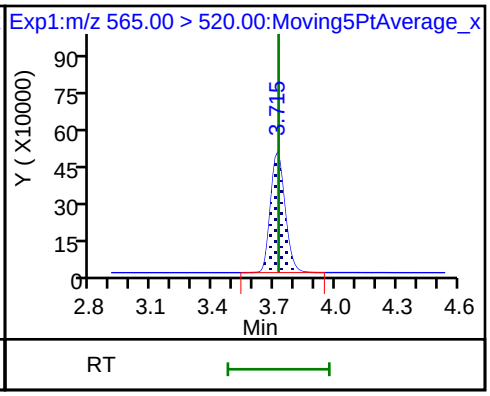
31 Perfluoroundecanoic acid



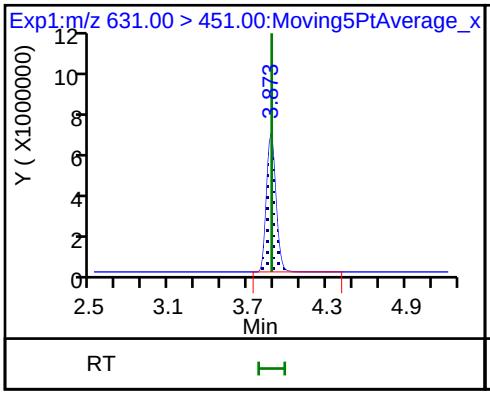
33 N-ethyl perfluorooctane sulfonamid



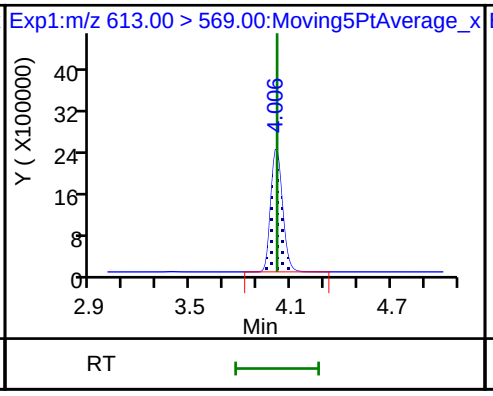
D 30 13C2 PFUnA



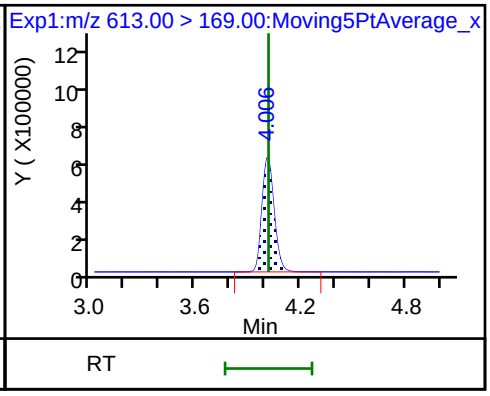
66 11-Chloroeicosafluoro-3-oxaundecan



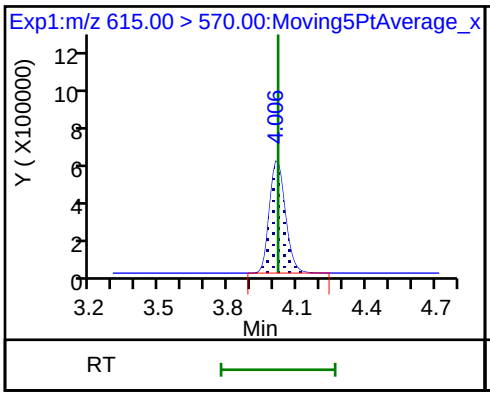
37 Perfluorododecanoic acid



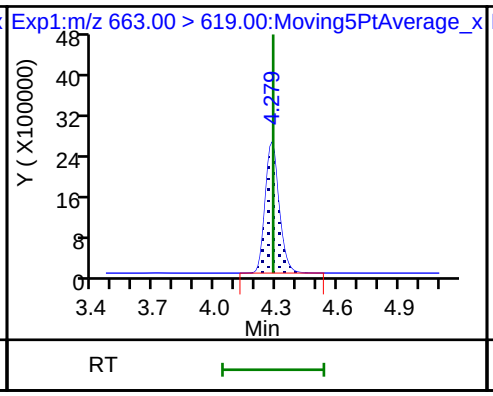
37 Perfluorododecanoic acid



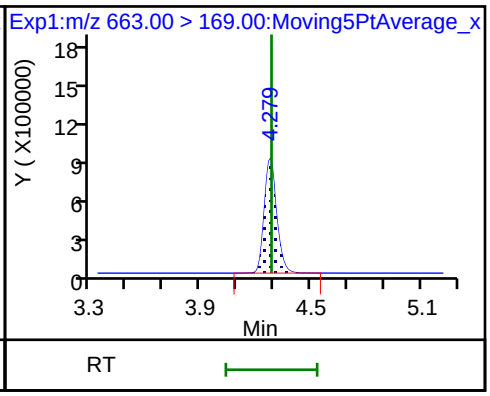
D 36 13C2 PFDoA



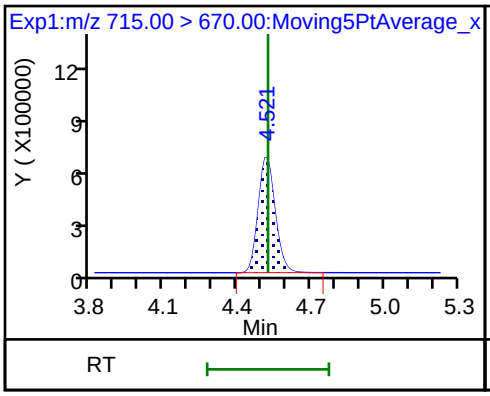
41 Perfluorotridecanoic acid



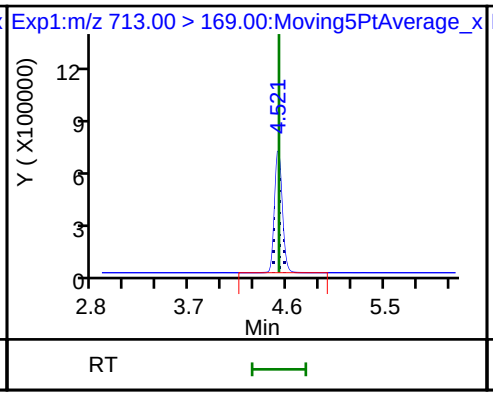
41 Perfluorotridecanoic acid



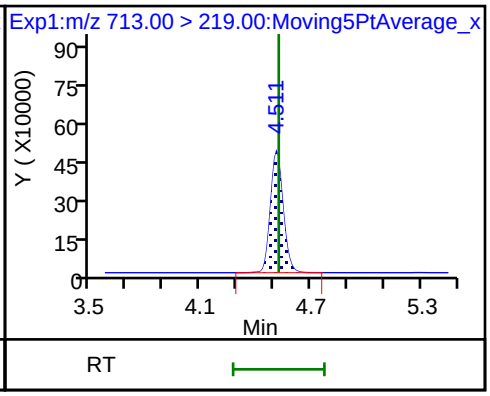
D 43 13C2-PFTeDA



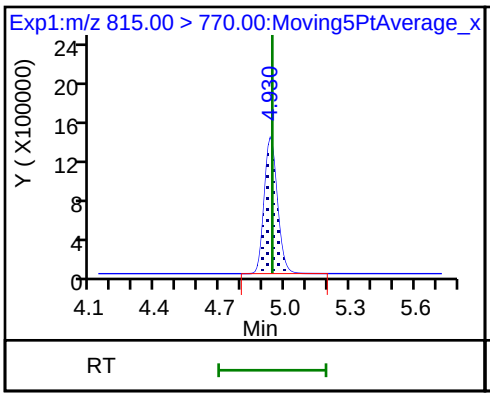
42 Perfluorotetradecanoic acid



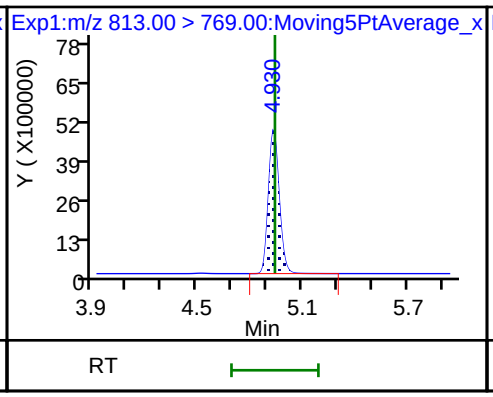
42 Perfluorotetradecanoic acid



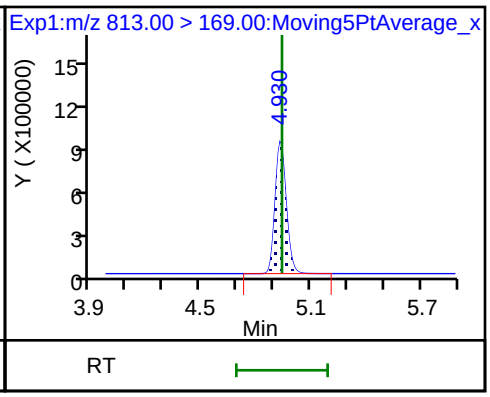
D 44 13C2-PFHxDA



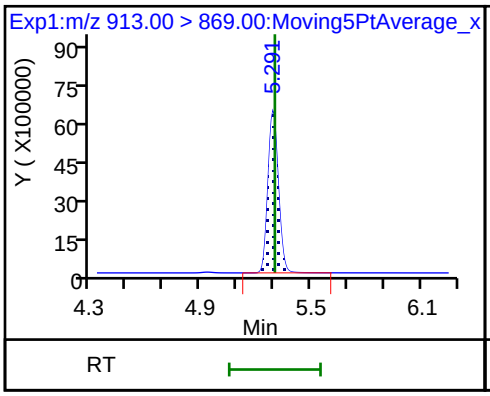
45 Perfluorohexadecanoic acid



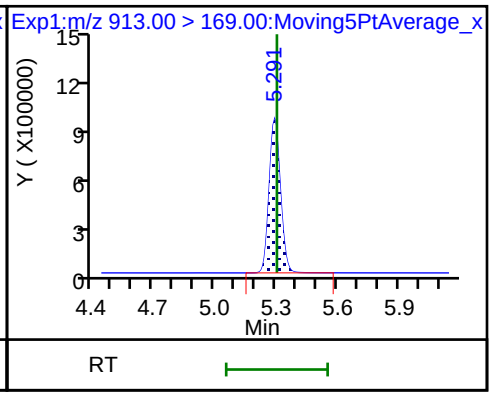
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-233476/2	2018.07.11LLICALA_002.d
Level 2	IC 320-233476/3	2018.07.11LLICALA_003.d
Level 3	IC 320-233476/4	2018.07.11LLICALA_004.d
Level 4	IC 320-233476/5	2018.07.11LLICALA_005.d
Level 5	IC 320-233476/6	2018.07.11LLICALA_006.d
Level 6	IC 320-233476/7	2018.07.11LLICALA_007.d
Level 7	IC 320-233476/8	2018.07.11LLICALA_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	+++++ 1.0129	0.9718 0.9875	0.9741	0.9685	0.9987	AveID		0.9856				1.8		35.0			
Perfluoropentanoic acid (PFPeA)	1.3707 1.1646	1.3311 1.1446	1.1808	1.1434	1.1567	AveID		1.2131				7.9		35.0			
Perfluorobutanesulfonic acid (PFBS)	79.113 76.960	76.692 70.480	75.620	75.784	80.820	AveID		76.496				4.2		50.0			
4:2 FTS	13.538 13.122	12.667 12.442	13.653	12.881	12.690	AveID		12.999				3.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.0307 1.0261	1.1305 0.9984	0.9842	1.0000	1.0353	AveID		1.0293				4.7		35.0			
Perfluoropentanesulfonic acid (PFPeS)	73.006 70.441	70.339 63.345	65.432	72.240	73.667	AveID		69.781				5.6		50.0			
HFPO-DA (GenX)	2.5472 2.8353	2.7762 2.6352	2.8143	2.4733	2.4973	AveID		2.6541				5.8		35.0			
Perfluoroheptanoic acid (PFHpA)	1.2918 1.1087	1.2500 1.0814	1.1033	1.0989	1.1620	AveID		1.1566				7.2		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3490 1.1211	1.1536 1.1001	1.1020	1.0938	1.1158	AveID		1.1479				7.9		35.0			
ADONA	3.3185 3.1056	3.2281 2.4104	3.4906	3.4928	3.4845	AveID		3.2186				12.0		50.0			
6:2 FTS	1.4307 1.5705	1.5312 1.6799	1.5392	1.5534	1.6458	AveID		1.5644				5.2		35.0			
Perfluorooctanoic acid (PFOA)	1.4929 1.1887	1.3327 1.1135	1.2003	1.1335	1.1592	AveID		1.2315				11.0		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.3509 1.3688	1.2372 1.2042	1.2775	1.3810	1.4032	AveID		1.3175				5.9		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.1761 1.1316	1.1320 1.0970	1.1094	1.1393	1.1467	AveID		1.1332				2.3		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	1.1492 1.1085	1.1038 1.0564	1.1540	1.0890	1.1045	AveID		1.1093				3.0		35.0			
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate	1.7713 1.8430	1.8507 1.6493	1.7942	1.9392	2.0023	AveID		1.8357				6.3		50.0			
Perfluorooctane Sulfonamide (FOSA)	0.9447 1.0010	1.0015 0.9523	0.9424	1.0155	1.0419	AveID		0.9856				4.0		35.0			
Perfluorononanesulfonic acid (PFNS)	0.8131 0.8121	0.7419 0.7503	0.7613	0.7781	0.7695	AveID		0.7752				3.6		50.0			
8:2 FTS	1.4047 1.2898	1.2049 1.3194	1.2351	1.2424	1.3334	AveID		1.2900				5.3		35.0			
Perfluorodecanoic acid (PFDA)	0.9467 1.0931	1.1302 1.0145	1.0491	1.0636	1.0484	AveID		1.0494				5.6		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	1.0236 0.9755	0.9472 1.0328	0.9128	0.9868	1.0221	AveID		0.9858				4.5		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6225 0.6912	0.6387 0.6423	0.6832	0.7141	0.7080	AveID		0.6714				5.4		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.6464 0.9255	0.9301 0.9261	1.0028	0.8322	0.9253	AveID		0.8840				13.1		35.0			
Perfluoroundecanoic acid (PFUnA)	0.9434 0.7821	0.8699 0.8018	0.7503	0.7522	0.8365	AveID		0.8195				8.5		35.0			
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate	2.7019 2.5867	2.6130 2.1488	2.8873	2.8652	2.7717	AveID		2.6535				9.4		50.0			
Perfluorododecanoic acid (PFDoA)	1.1376 1.0839	0.9975 1.0907	1.0746	1.1154	1.1433	AveID		1.0919				4.5		35.0			
Perfluorotridecanoic Acid (PFTriA)	0.9687 1.0789	1.0292 1.0500	1.0796	1.0816	1.1857	AveID		1.0677				6.2		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2555 0.2589	0.2919 0.2636	0.2453	0.2569	0.2491	AveID		0.2602				5.9		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7653 0.9715	1.3648 0.9014	1.0483	0.9956	0.9507	L2ID	0.0205	0.9502							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	1.1475 1.1370	1.1984 1.0684	1.1770	1.1295	1.1425	AveID		1.1429				3.6		50.0			
13C4 PFBA	+++++ 1.4117	1.2696 1.5420	1.3076	1.2987	1.3059	Ave		1.3559				7.6		50.0			
13C5 PFPeA	0.9124 1.0054	0.8821 1.0349	0.9316	0.8944	0.9368	Ave		0.9425				6.0		50.0			
13C3-PFBS	0.0220 0.0248	0.0229 0.0269	0.0230	0.0231	0.0231	Ave		0.0237				6.9		50.0			
M2-4:2FTS	0.1330 0.1293	0.1232 0.1362	0.1169	0.1268	0.1254	Ave		0.1273				5.0		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFHxA	0.9821 1.0465	0.9787 1.1049	0.9969	1.0174	0.9938	Ave		1.0172				4.4		50.0			
13C3 HFPO-DA	0.0673 0.0738	0.0643 0.0829	0.0677	0.0735	0.0771	Ave		0.0724				8.9		50.0			
13C4-PFHpA	0.9006 0.9748	0.8952 0.9872	0.9277	0.9373	0.9365	Ave		0.9371				3.7		50.0			
18O2 PFHxS	1.3480 1.3594	1.2940 1.3736	1.3258	1.2974	1.2946	Ave		1.3275				2.5		50.0			
M2-6:2FTS	0.2035 0.2073	0.1985 0.1979	0.2090	0.1987	0.1914	Ave		0.2009				3.0		50.0			
13C4 PFOA	0.9476 0.9571	0.9504 0.9746	0.9553	0.9586	0.9488	Ave		0.9560				1.0		50.0			
13C4 PFOS	0.9448 1.0026	0.9615 1.0887	0.9374	0.9230	0.9612	Ave		0.9742				5.8		50.0			
13C5 PFNA	0.8507 0.8495	0.8673 0.8781	0.8351	0.8465	0.8552	Ave		0.8546				1.7		50.0			
13C8 FOSA	1.4178 1.4370	1.3891 1.3807	1.4145	1.3980	1.3958	Ave		1.4047				1.4		50.0			
M2-8:2FTS	0.3145 0.2790	0.3204 0.2470	0.3241	0.2983	0.2738	Ave		0.2939				9.7		50.0			
13C2 PFDA	0.7752 0.7109	0.7395 0.7327	0.7855	0.7427	0.7657	Ave		0.7503				3.5		50.0			
d3-NMeFOSAA	0.2939 0.3280	0.2883 0.3404	0.2973	0.3039	0.3008	Ave		0.3075				6.3		50.0			
d5-NEtFOSAA	0.3122 0.3175	0.3225 0.3114	0.3121	0.3252	0.3044	Ave		0.3150				2.3		50.0			
13C2 PFUnA	0.6068 0.6358	0.6382 0.6158	0.6383	0.6306	0.6206	Ave		0.6266				2.0		50.0			
13C2 PFDoA	0.6316 0.6752	0.6317 0.6905	0.6629	0.6311	0.6243	Ave		0.6496				4.0		50.0			
13C2-PFTeDA	0.6485 0.6992	0.6025 0.7344	0.7008	0.6559	0.6769	Ave		0.6740				6.4		50.0			
13C2-PFHxDA	1.0898 1.0988	0.9225 1.1203	1.0956	1.0747	1.1137	Ave		1.0736				6.4		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-233476/2	2018.07.11LLICALA_002.d
Level 2	IC 320-233476/3	2018.07.11LLICALA_003.d
Level 3	IC 320-233476/4	2018.07.11LLICALA_004.d
Level 4	IC 320-233476/5	2018.07.11LLICALA_005.d
Level 5	IC 320-233476/6	2018.07.11LLICALA_006.d
Level 6	IC 320-233476/7	2018.07.11LLICALA_007.d
Level 7	IC 320-233476/8	2018.07.11LLICALA_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	+++++ 10623913	109256 22835400	529569	2185459	5273443	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	51727 8699476	103977 17766142	457354	1776986	4381627	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	63723 12546505	137206 25119744	638814	2692471	6674181	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	11521 2260293	23943 4685101	121859	483517	1107254	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	41864 7978958	97977 16543784	407905	1767805	4160132	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	62396 12185262	133528 23955798	586514	2723317	6455101	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	7091 1554085	15816 3276527	79161	316075	778109	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	48115 8030466	99091 16011091	425549	1789760	4400212	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	68440 10305090	120291 20622639	552716	2243830	5315063	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
ADONA		AveID	122149 21793498	258910 37073934	1281398	5276511	12756974	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	11415 2292840	25517 4726825	126798	508387	1207511	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	58566 8461263	112267 16291262	477183	1889955	4451468	0.0250 5.01	0.0501 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	50252 9707552	100280 18718055	473940	2108438	5191820	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	42647 7822689	89440 16622900	401226	1695511	4135858	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	40436 6996919	84772 13910795	400644	1601728	3819652	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonate		AveID	64507 12796083	146856 25098628	651675	2898434	7252582	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctane Sulfonamide (FOSA)		AveID	55398 10688141	123192 19718955	554186	2466657	5880155	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	30501 5807858	60641 11760635	284813	1198001	2871112	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
8:2 FTS		AveID	17506 2561237	32747 4682146	159408	616956	1414341	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	30353 5773802	74013 11148372	342607	1372481	3246129	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	12441 2377396	24180 5272635	112830	521077	1243187	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	23450 4963395	52427 10109747	256645	1104012	2652406	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	8347 2183486	26557 4325460	130099	470221	1138694	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroundecanoic acid (PFUnA)		AveID	23675 3694320	49158 7405393	199100	824114	2099121	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonate		AveID	99455 18152128	209574 33050828	1059951	4328485	10147290	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	29719 5437907	55796 11295646	296160	1222974	2886271	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	25307 5412702	57570 10874073	297546	1185888	2993320	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	6854 1344804	15573 2903345	71477	292793	681755	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	79574 7932024	111481 15144158	477512	1859123	4281172	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	51724 9282794	97895 17950029	536098	2109156	5144900	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	+++++ 5244451	5621166 5781235	5436336	5641372	5280540	+++++ 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	3773636 3734969	3905774 3880280	3873105	3885306	3788119	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	84738 85755	94108 93739	88873	93442	86878	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	513760 448621	509407 476788	453992	514423	473738	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4061845 3887868	4333312 4142603	4144632	4419532	4018475	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PFOA	Ave	278389 274060	284852 310846	281279	319484	311580	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4-PFHpA	13PF OA	Ave	3724726 3621431	3963601 3701454	3856910	4071620	3786835	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5274150 4777689	5419785 4872001	5214223	5331177	4952007	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PF OA	Ave	799554 731524	834970 704932	825525	819911	735229	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	3919080 3555536	4207903 3653899	3971401	4164105	3836329	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3735610 3560852	4069838 3902400	3725581	3832872	3715442	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	3518663 3155893	3839924 3292167	3471672	3677166	3458178	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	5863894 5338756	6150410 5176580	5880733	6072674	5643811	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2FTS	13PF OA	Ave	1246262 992916	1358867 887172	1290698	1241456	1060685	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3206069 2641138	3274309 2747254	3265845	3225992	3096188	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1215393 1218514	1276369 1276287	1236119	1320092	1216339	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	1291362 1179674	1427681 1167600	1297377	1412562	1230676	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	2509506 2361908	2825527 2308936	2653699	2739039	2509304	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	2612394 2508500	2796780 2588991	2756034	2741167	2524421	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	2682209 2597628	2667637 2753301	2913500	2848985	2737226	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	4507577 4082261	4084288 4200183	4554944	4668246	4503233	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jul-2018 14:48:59 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:18 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:13:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.625	1.702	-0.077	1.000	51727	0.0282		113	15.3	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.625	1.702	-0.077	0.607	3773636	2.42		96.8	38740	
D 47 13C3-PFBS										
301.90 > 83.00	1.712	1.748	-0.036	0.640	84738	2.16		93.0	494	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.721	1.751	-0.030	1.005	63723	0.0229		103	788	
298.90 > 99.00	1.721	1.751	-0.030	1.005	27608		2.31(1.25-3.74)	103	308	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.949	1.962	-0.013	1.139	11521	0.0243		104	1016	
D 60 M2-4:2FTS										
329.00 > 81.00	1.949	1.962	-0.013	0.728	513760	2.44		105	5378	
D 7 13C2 PFHxA										
315.00 > 270.00	1.982	1.996	-0.014	0.741	4061845	2.41		96.5	70891	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.982	1.998	-0.016	1.000	41864	0.0250		100	67.8	
313.00 > 119.00	1.971	1.998	-0.027	0.995	4020		10.41(5.03-15.10)	100	87.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.022	-0.006	1.178	62396	0.0245		105	1542	
349.00 > 99.00	2.016	2.022	-0.006	1.178	24140		2.58(1.36-4.07)	105	480	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.083	2.093	-0.010	0.779	278389	2.33		93.0	7110	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.083	2.095	-0.012	1.000	7091	0.0240		96.0	35.0	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.867	3724726	2.40		96.1	36311	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	48115	0.0279		112	80.2	
363.00 > 169.00	2.321	2.319	0.002	1.000	20821		2.31(1.13-3.40)	112	195	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	68440	0.0267		118	687	
399.00 > 99.00	2.334	2.332	0.002	1.000	26424		2.59(1.50-4.49)	118	180	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.872	5274150	2.40		102	31468	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.775	122149	0.0243		103	1762	
377.00 > 85.00	2.360	2.360	0.0	0.775	66967		1.82(0.84-2.53)	103	350	
D 12 M2-6:2FTS										
429.00 > 81.00	2.654	2.645	0.009	0.992	799554	2.41		101	15699	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.654	2.648	0.006	1.000	11415	0.0217		91.5	214	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.676	2.672	0.004	1.000	58566	0.0303		121	42.3	
413.00 > 169.00	2.676	2.672	0.004	1.000	29579		1.98(0.84-2.52)	121	150	
* 62 13C2-PFOA										
415.00 > 370.00	2.676	2.672	0.004		4135961	2.50			25214	
D 14 13C4 PFOA										
417.00 > 372.00	2.676	2.672	0.004	1.000	3919080	2.48		99.1	39083	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.684	2.678	0.006	0.882	50252	0.0244		103	1356	
449.00 > 99.00	2.684	2.678	0.006	0.882	13998		3.59(1.94-5.82)	103	336	
D 18 13C4 PFOS										
503.00 > 80.00	3.044	3.034	0.010	1.137	3735610	2.32		97.0	38404	
D 19 13C5 PFNA										
468.00 > 423.00	3.044	3.035	0.009	1.137	3518663	2.49		99.5	37505	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.044	3.035	0.009	1.000	42647	0.0241		104	1040	
499.00 > 99.00	3.044	3.035	0.009	1.000	6341		6.73(2.31-6.93)	104	76.8	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.044	3.036	0.008	1.000	40436	0.0259		104	86.6	
463.00 > 169.00	3.044	3.036	0.008	1.000	8246		4.90(1.90-5.69)	104	386	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.252	3.245	0.007	1.068	64507	0.0225		96.5	738	
D 21 13C8 FOSA										
506.00 > 78.00	3.368	3.367	0.001	1.259	5863894	2.52		101	37744	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.378	3.371	0.007	1.003	55398	0.0240		95.9	895	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.387	3.377	0.010	1.113	30501	0.0252		105	977	
549.00 > 99.00	3.387	3.377	0.010	1.113	11187		2.73(1.33-3.97)	105	183	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.387	3.380	0.007	1.000	17506	0.0261		109	392	
D 26 M2-8:2FTS										
529.00 > 81.00	3.387	3.380	0.007	1.266	1246262	2.56		107	13304	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	3.396	3.391	0.005	1.269	3206069	2.58		103	42082	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.396	3.392	0.004	1.000	30353	0.0226		90.2	167	
513.00 > 169.00	3.406	3.392	0.014	1.003	5842		5.20(2.36-7.09)	90.2	176	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.555	3.544	0.011	1.328	1215393	2.39		95.6	18900	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.555	3.548	0.007	1.000	12441	0.0260		104	107	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.707	3.701	0.006	1.218	23450	0.0223		92.7	612	
599.00 > 99.00	3.707	3.701	0.006	1.218	7239		3.24(1.39-4.16)	92.7	219	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.717	3.710	0.007	1.389	1291362	2.48		99.1	3190	
D 30 13C2 PFUnA										
565.00 > 520.00	3.728	3.716	0.012	1.393	2509506	2.42		96.8	51439	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.728	3.718	0.010	1.003	8347	0.0183		73.1	145	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.728	3.718	0.010	1.000	23675	0.0288		115	106	
563.00 > 169.00	3.717	3.718	-0.001	0.997	8021		2.95(2.12-6.36)	115	436	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.885	3.874	0.011	1.276	99455	0.0240		102	2626	
D 36 13C2 PFDoA										
615.00 > 570.00	4.018	4.009	0.009	1.501	2612394	2.43		97.2	20487	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.018	4.011	0.007	1.000	29719	0.0260		104	16.6	
613.00 > 169.00	4.018	4.011	0.007	1.000	7194		4.13(2.13-6.40)	104	142	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.280	4.273	0.007	1.065	25307	0.0227		90.7	12.3	
663.00 > 169.00	4.280	4.273	0.007	1.065	8824		2.87(1.25-3.76)	90.7	172	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.520	4.508	0.012	1.689	2682209	2.41		96.2	12372	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.520	4.508	0.012	1.000	6854	0.0246		98.2	111	
713.00 > 219.00	4.520	4.508	0.012	1.000	5713		1.20(0.71-2.13)	98.2	153	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.930	4.918	0.012	1.842	4507577	2.54		102	13270	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.930	4.918	0.012	1.000	79574	0.0249		99.5	20.2	
813.00 > 169.00	4.930	4.918	0.012	1.000	12790		6.22(2.86-8.58)	99.5	144	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.283	5.271	0.012	1.072	51724	0.0251		100	11.3	
913.00 > 169.00	5.283	5.271	0.012	1.072	7005		7.38(3.83-11.48)	100	122	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00006 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d

Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N

Lims ID: IC L1 Full

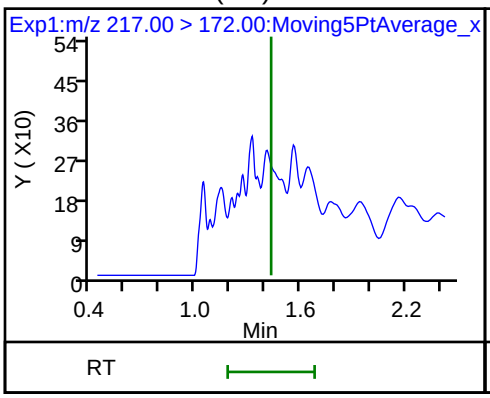
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

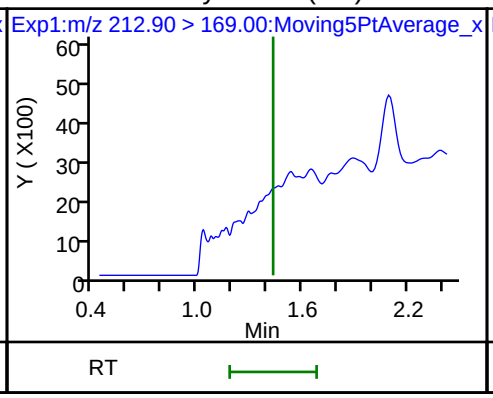
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

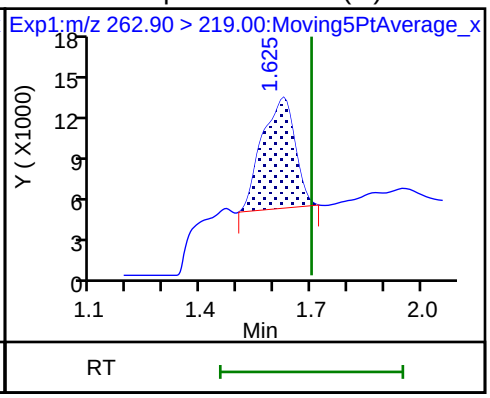
D 1 13C4 PFBA (ND)



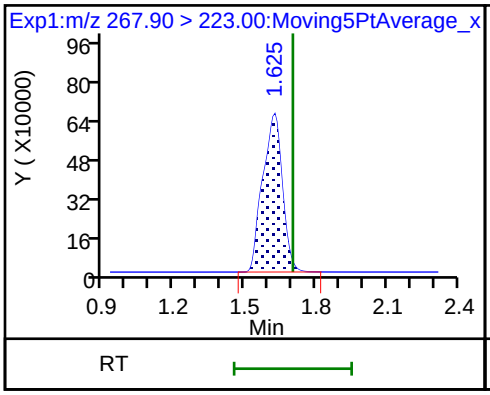
2 Perfluorobutyric acid (ND)



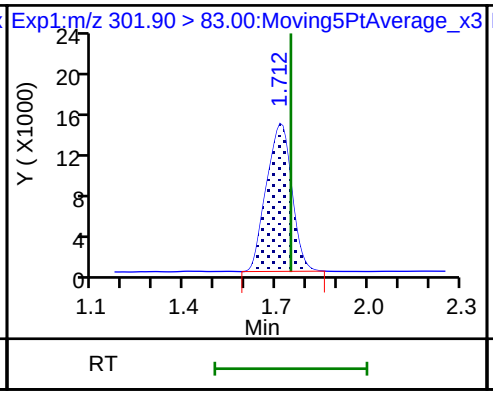
4 Perfluoropentanoic acid (M)



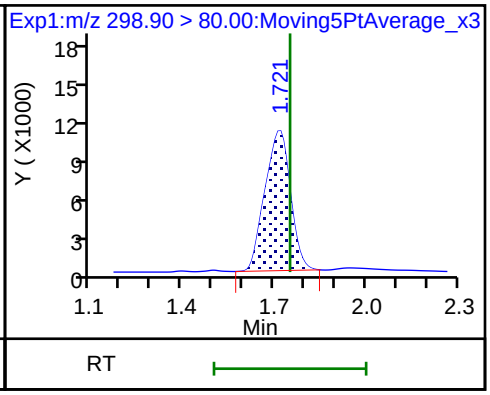
D 3 13C5-PFPeA



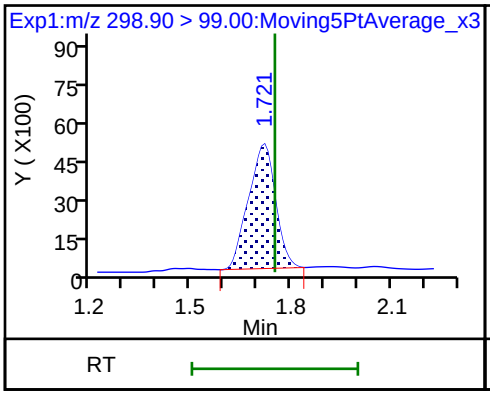
D 47 13C3-PFBS



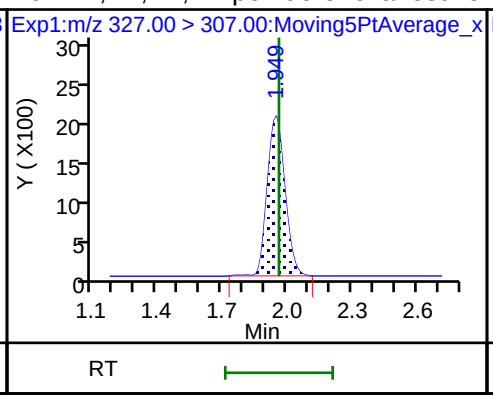
5 Perfluorobutanesulfonic acid



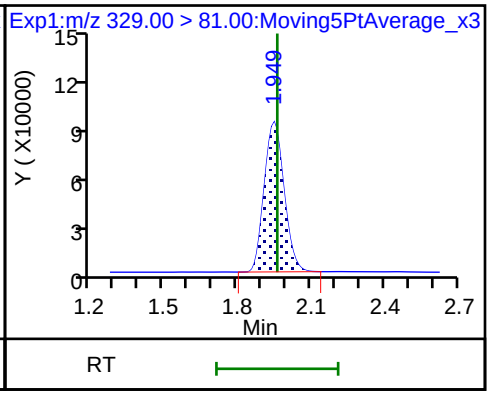
5 Perfluorobutanesulfonic acid



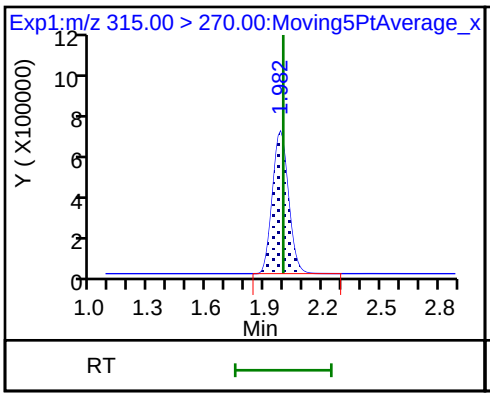
61 1H,1H,2H,2H-perfluorohexanesulfon



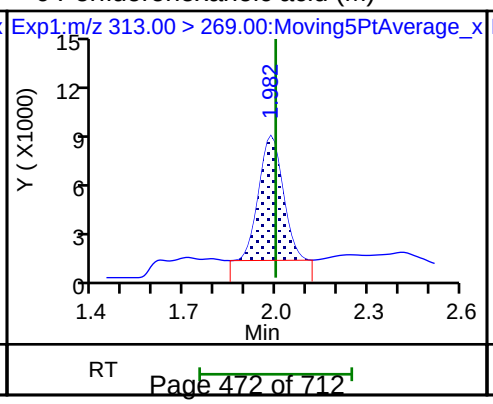
D 60 M2-4:2FTS



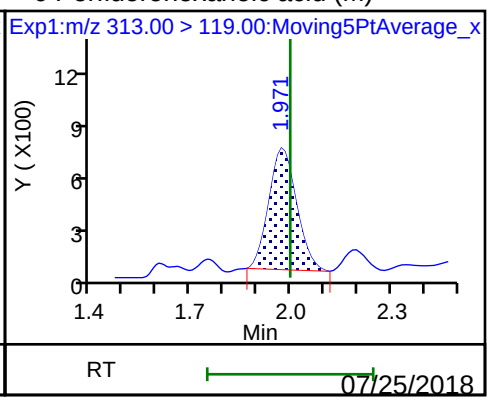
D 7 13C2 PFHxA



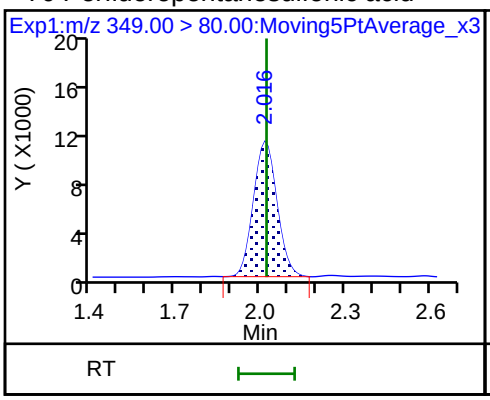
6 Perfluorohexanoic acid (M)



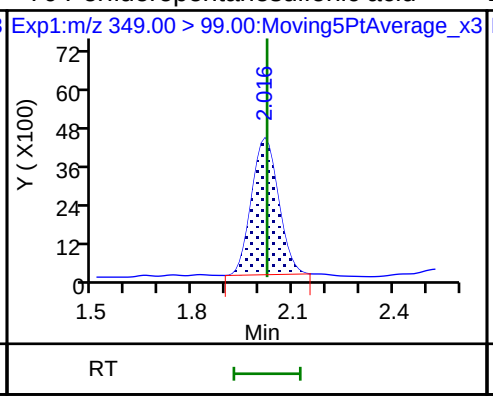
6 Perfluorohexanoic acid (M)



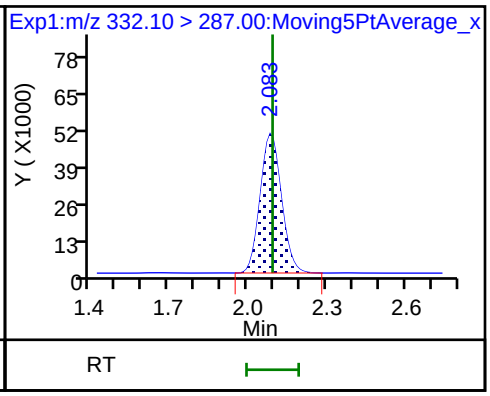
70 Perfluoropentanesulfonic acid



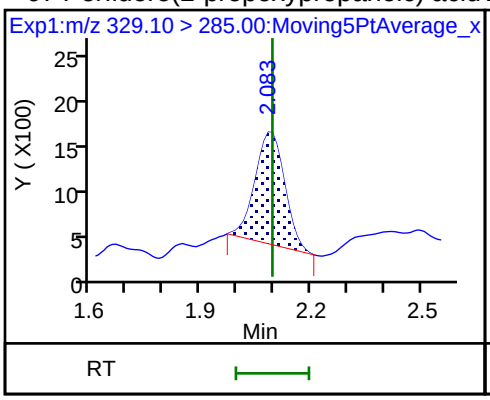
70 Perfluoropentanesulfonic acid



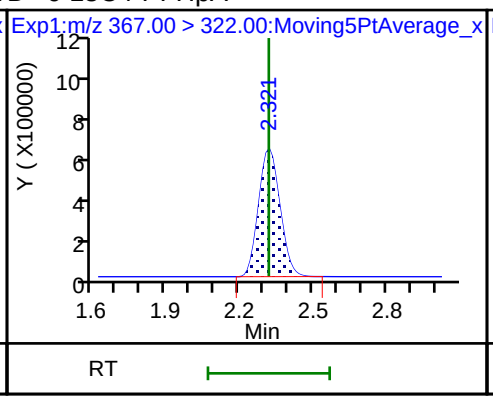
D 64 13C3 HFPO-DA



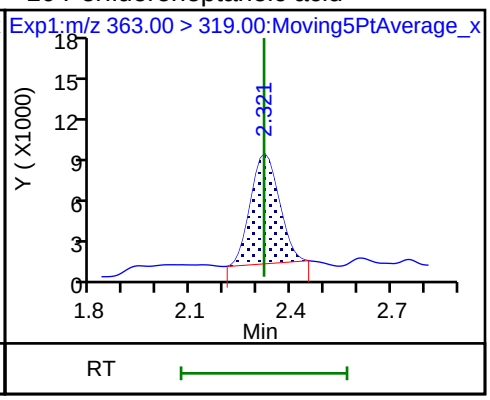
67 Perfluoro(2-propoxypropanoic) acid



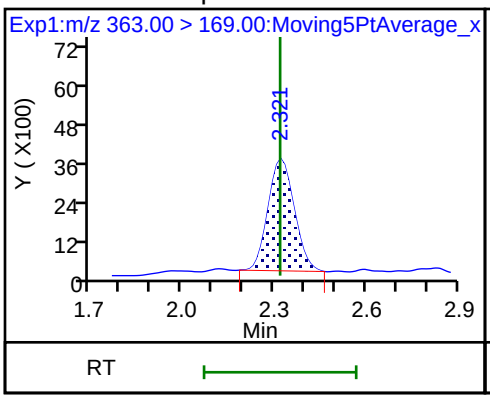
D 9 13C4-PFHpA



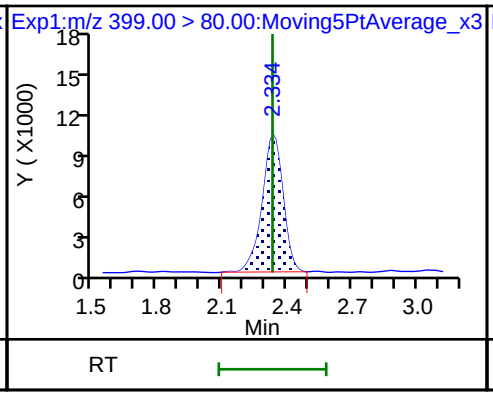
10 Perfluoroheptanoic acid



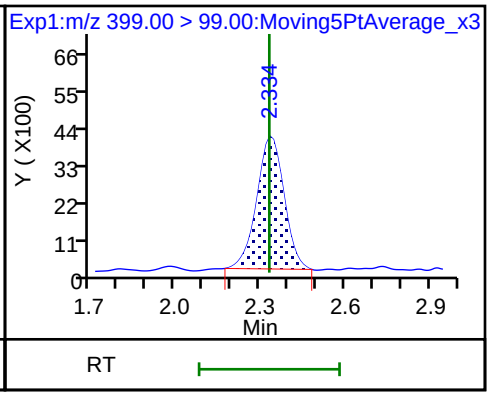
10 Perfluoroheptanoic acid



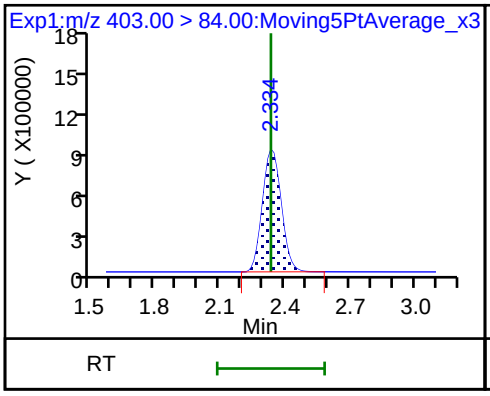
8 Perfluorohexanesulfonic acid



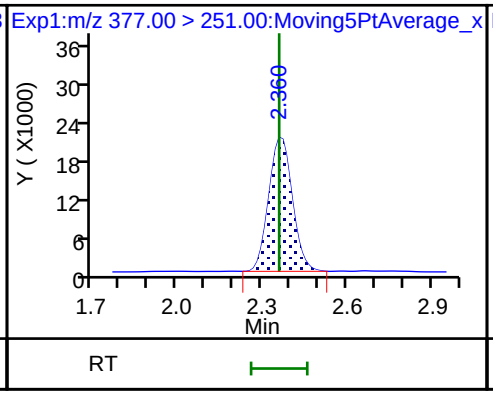
8 Perfluorohexanesulfonic acid



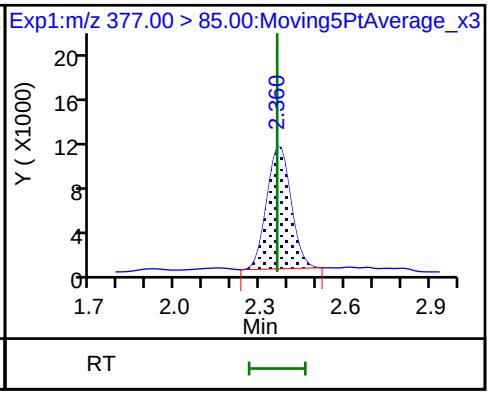
D 11 18O2 PFHxS



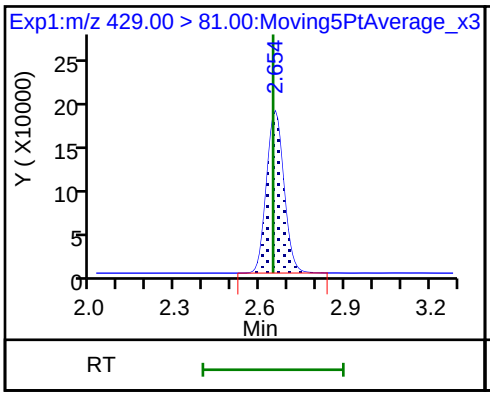
65 Adona



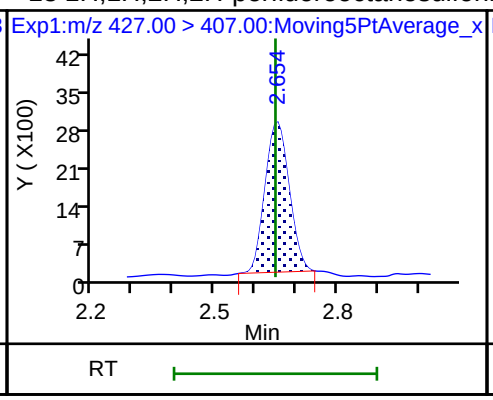
65 Adona



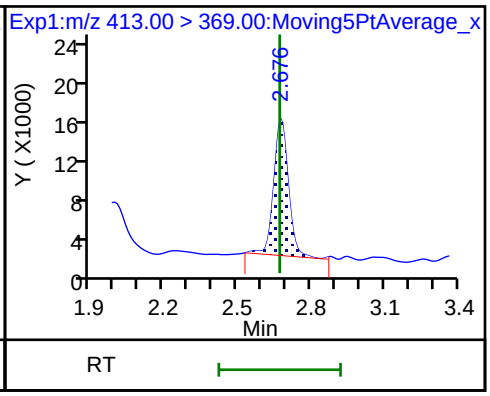
D 12 M2-6:2FTS



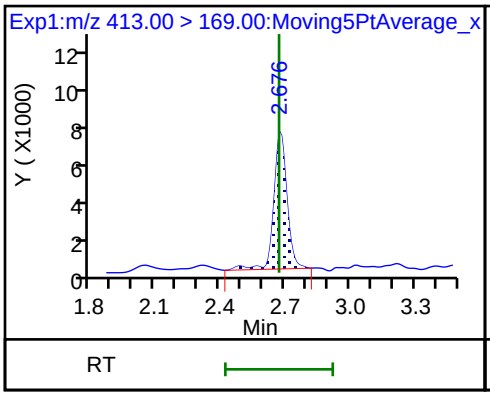
13 1H,1H,2H,2H-perfluorooctanesulfoni



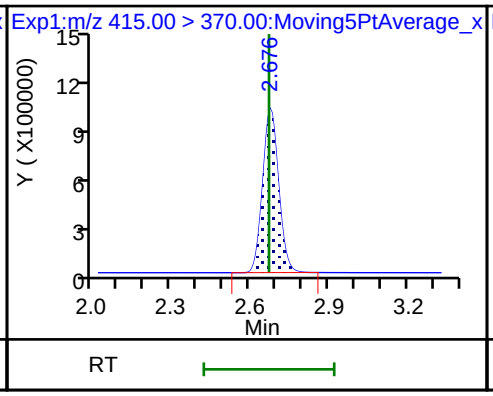
15 Perfluorooctanoic acid



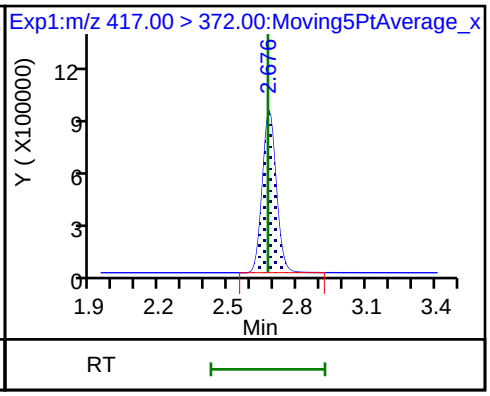
15 Perfluorooctanoic acid



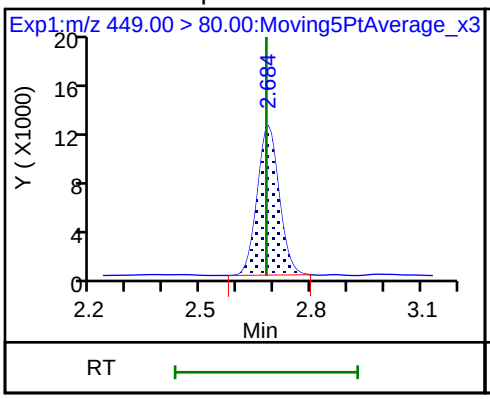
* 62 13C2-PFOA



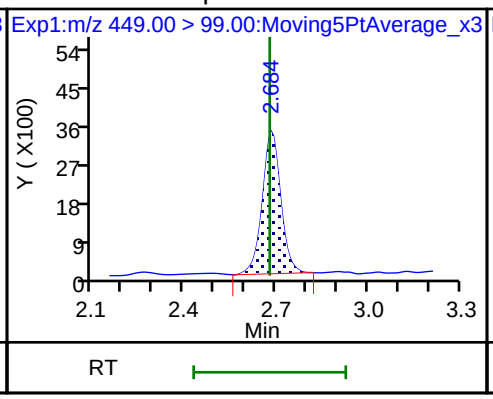
D 14 13C4 PFOA



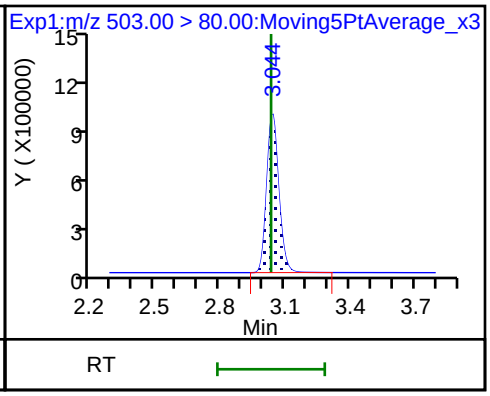
16 Perfluoroheptanesulfonic acid



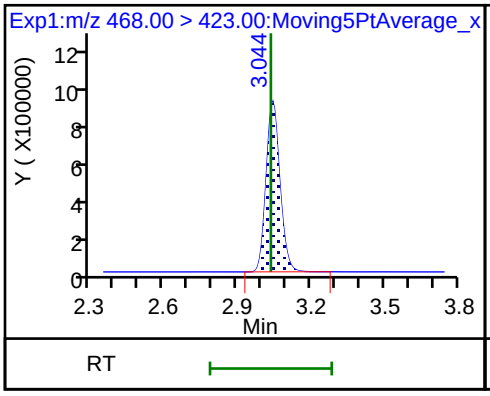
16 Perfluoroheptanesulfonic acid



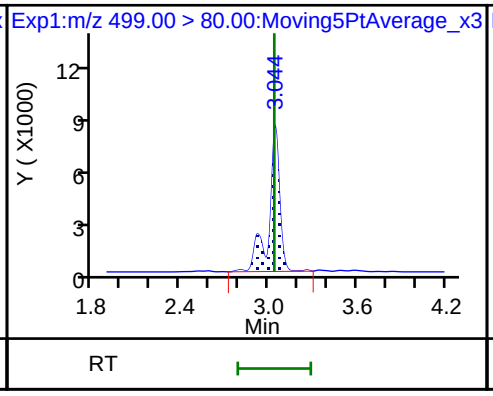
D 18 13C4 PFOS



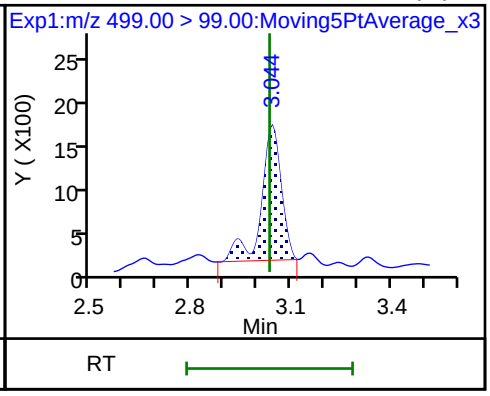
D 19 13C5 PFNA



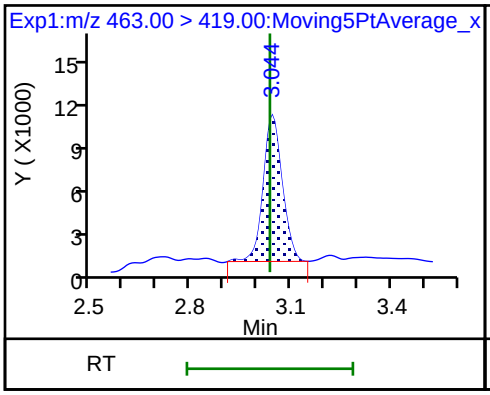
17 Perfluorooctane sulfonic acid



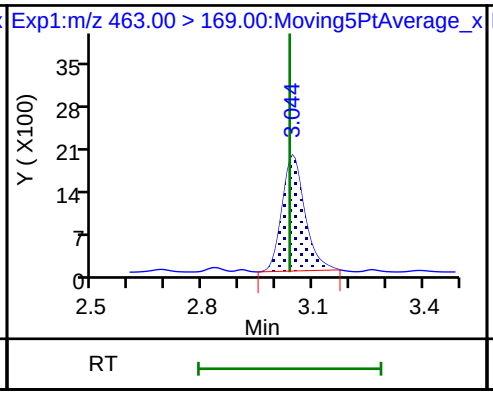
17 Perfluorooctane sulfonic acid (M)



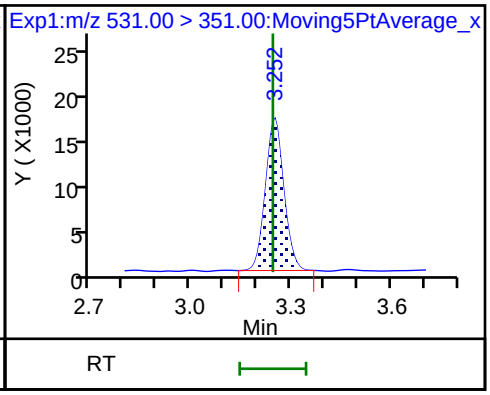
20 Perfluorononanoic acid



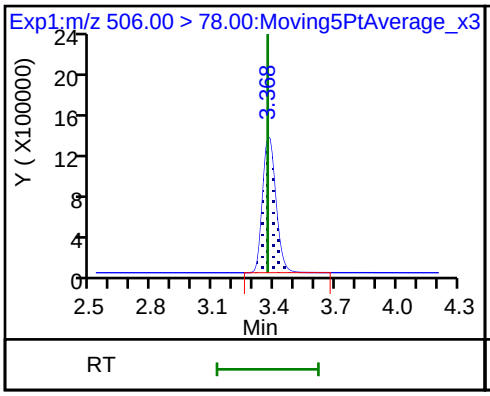
20 Perfluorononanoic acid



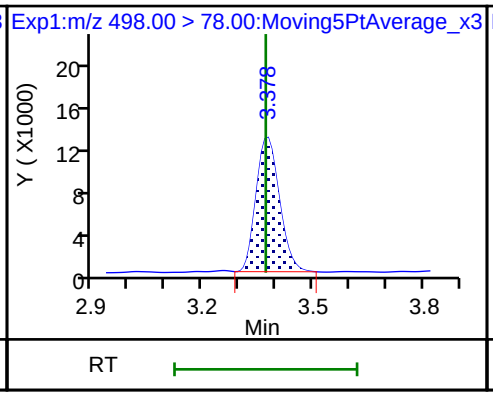
69 9-Chlorohexadecafluoro-3-oxanonane



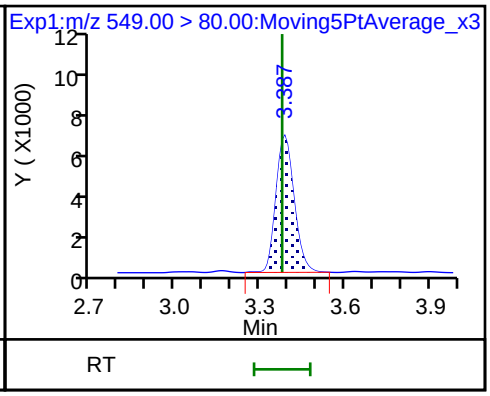
D 21 13C8 FOSA



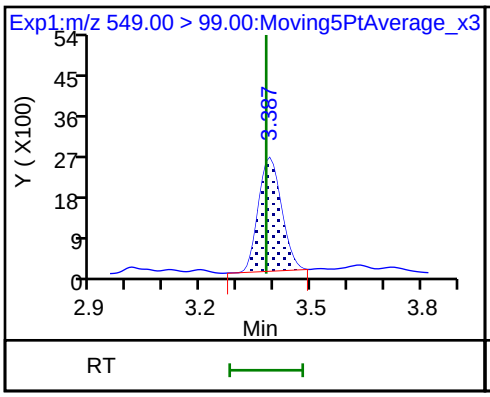
22 Perfluorooctane Sulfonamide



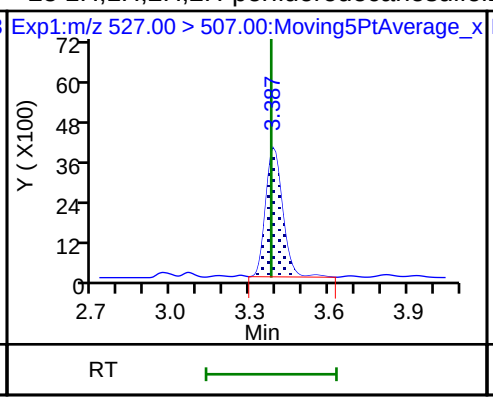
68 Perfluorononanesulfonic acid



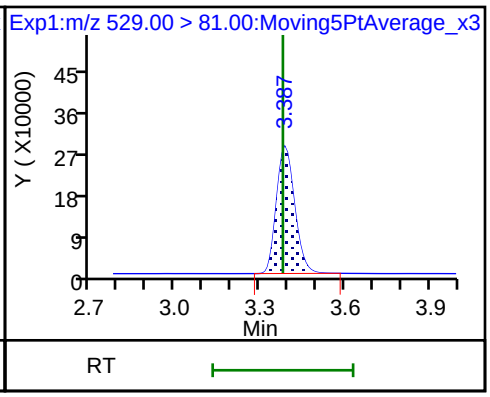
68 Perfluorononanesulfonic acid



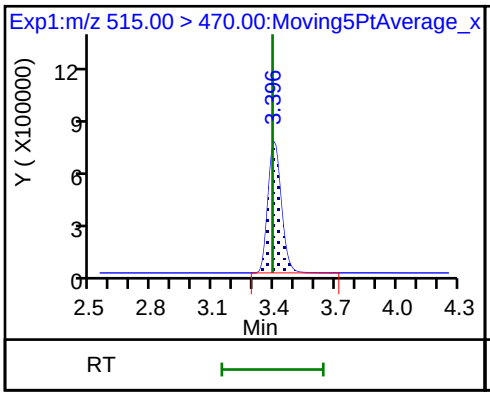
25 1H,1H,2H,2H-perfluorodecanesulfon



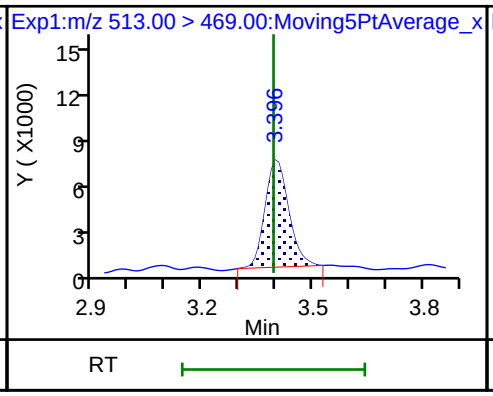
D 26 M2-8:2FTS



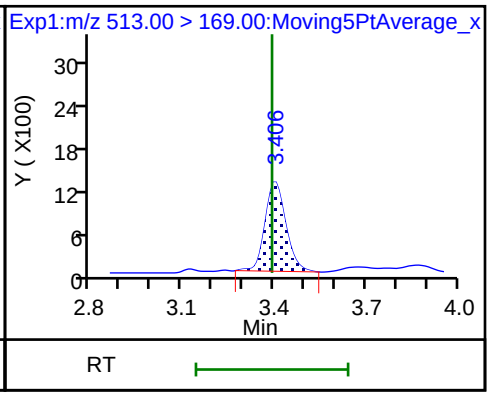
D 23 13C2 PFDA



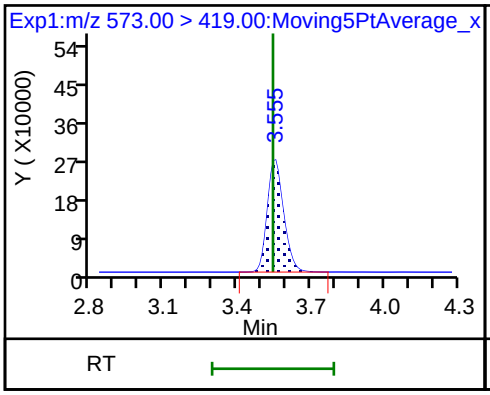
24 Perfluorodecanoic acid



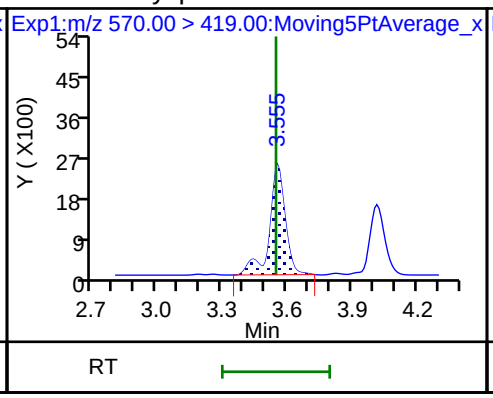
24 Perfluorodecanoic acid



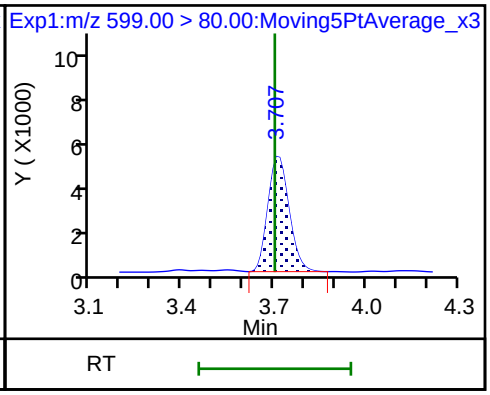
D 27 d3-NMeFOSAA



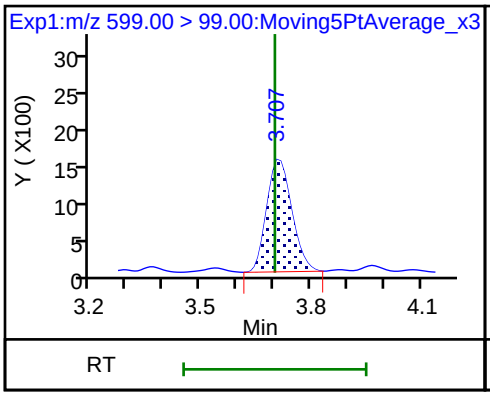
28 N-methyl perfluorooctane sulfonami



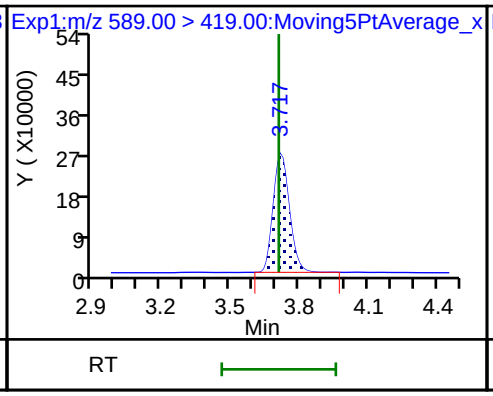
29 Perfluorodecane Sulfonic acid



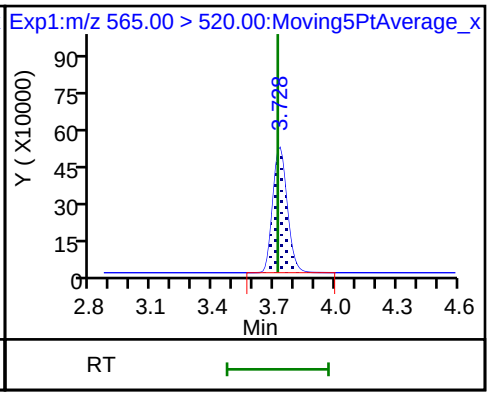
29 Perfluorodecane Sulfonic acid



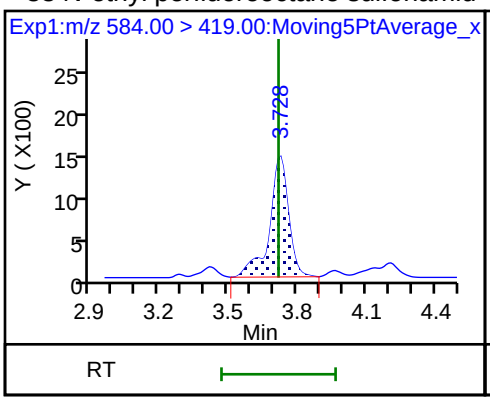
D 32 d5-NEtFOSAA



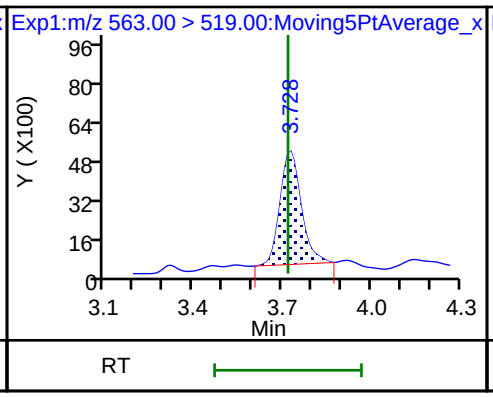
D 30 13C2 PFUnA



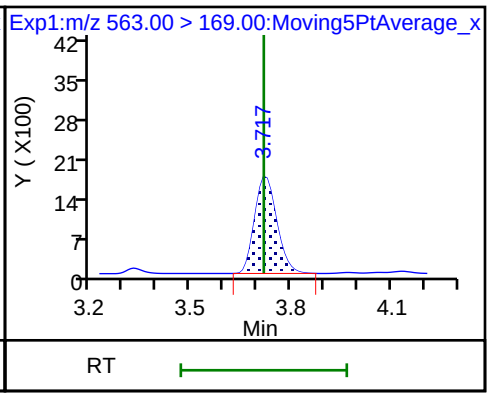
33 N-ethyl perfluorooctane sulfonamid



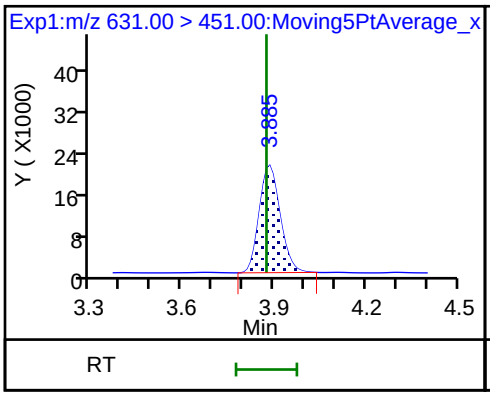
31 Perfluoroundecanoic acid



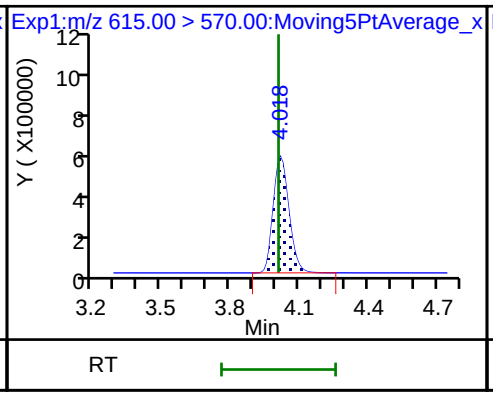
31 Perfluoroundecanoic acid



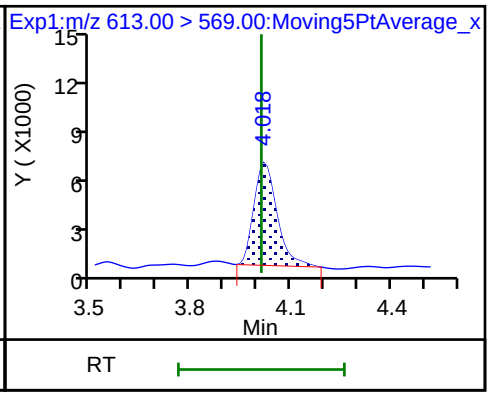
66 11-Chloroeicosafluoro-3-oxaundecan



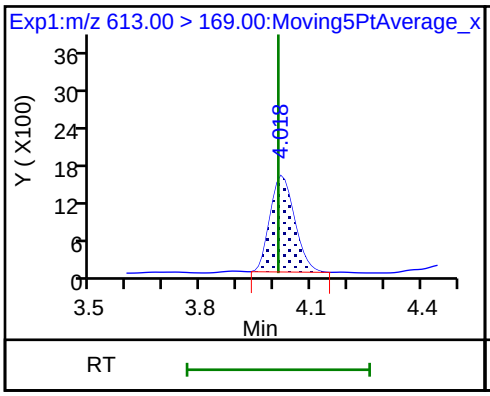
D 36 13C2 PFDoA



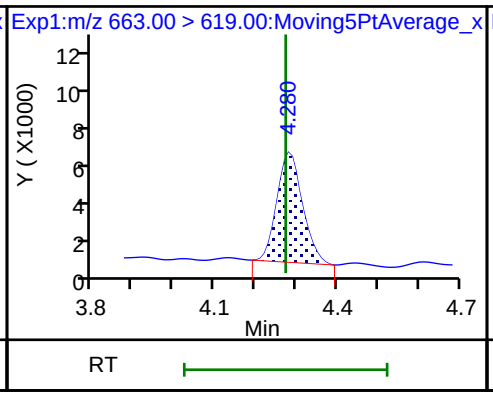
37 Perfluorododecanoic acid



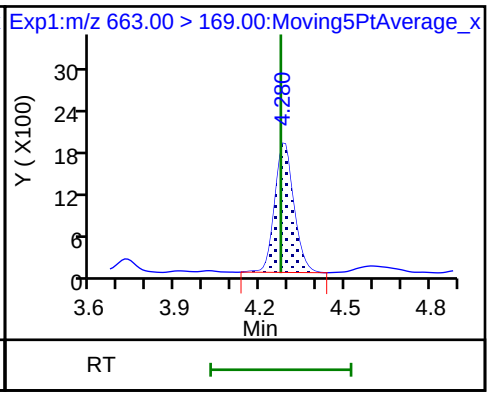
37 Perfluorododecanoic acid



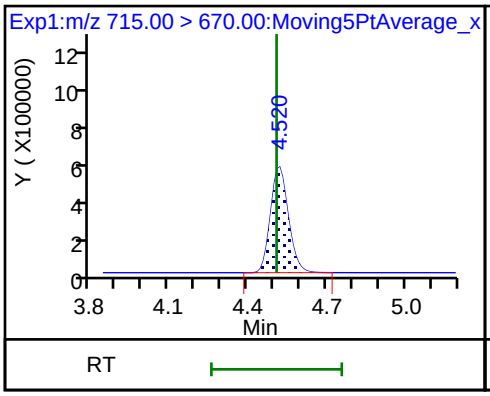
41 Perfluorotridecanoic acid



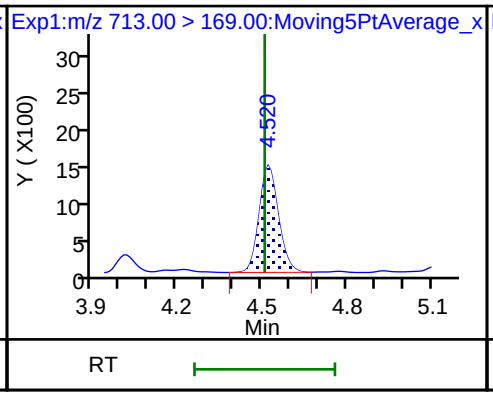
41 Perfluorotridecanoic acid



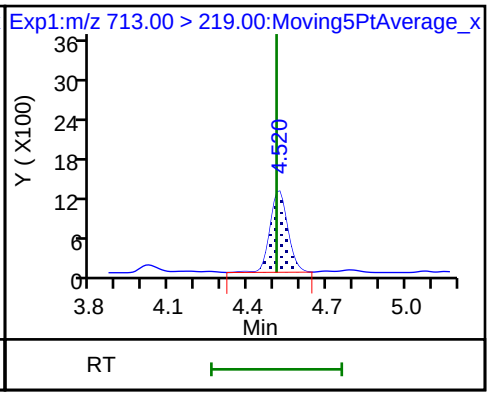
D 43 13C2-PFTeDA



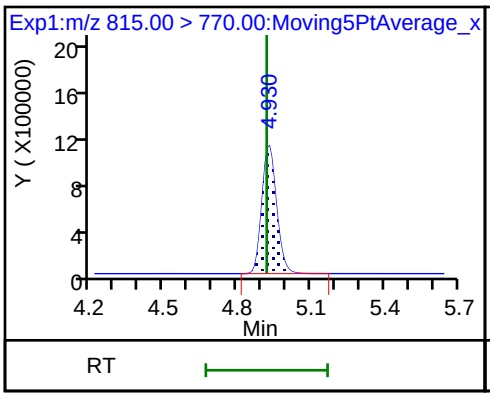
42 Perfluorotetradecanoic acid



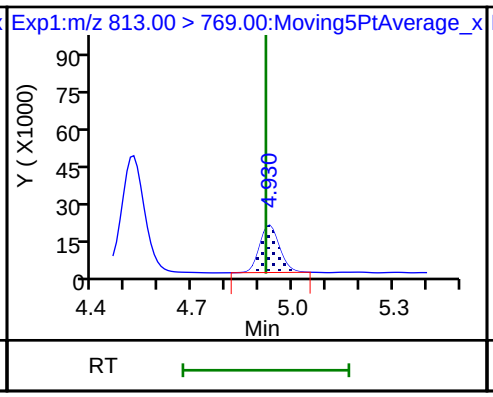
42 Perfluorotetradecanoic acid



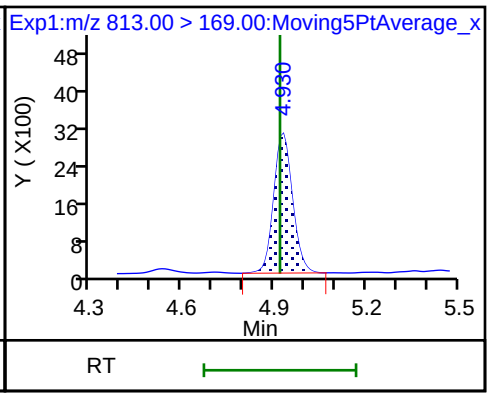
D 44 13C2-PFHxDA



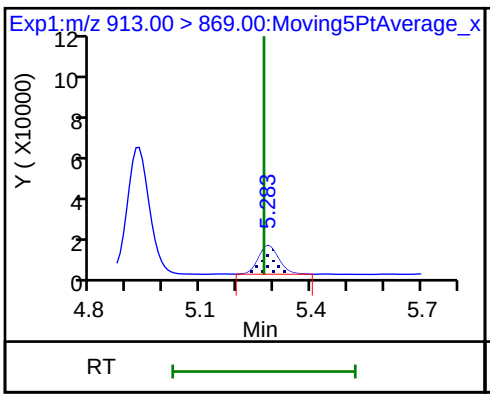
45 Perfluorohexadecanoic acid



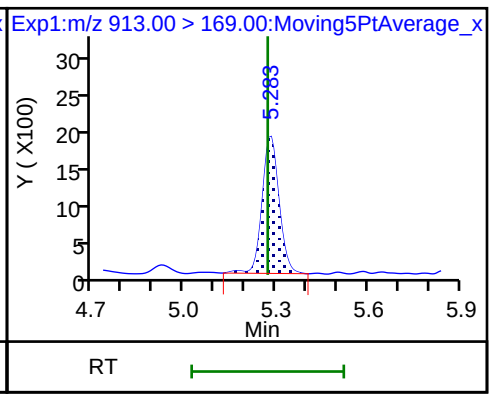
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

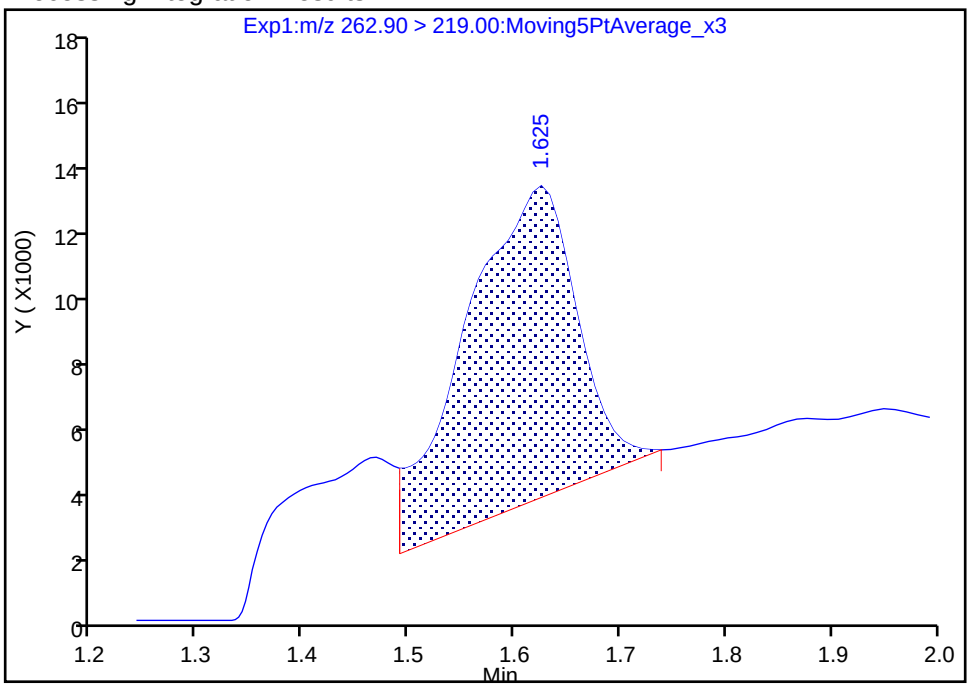
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

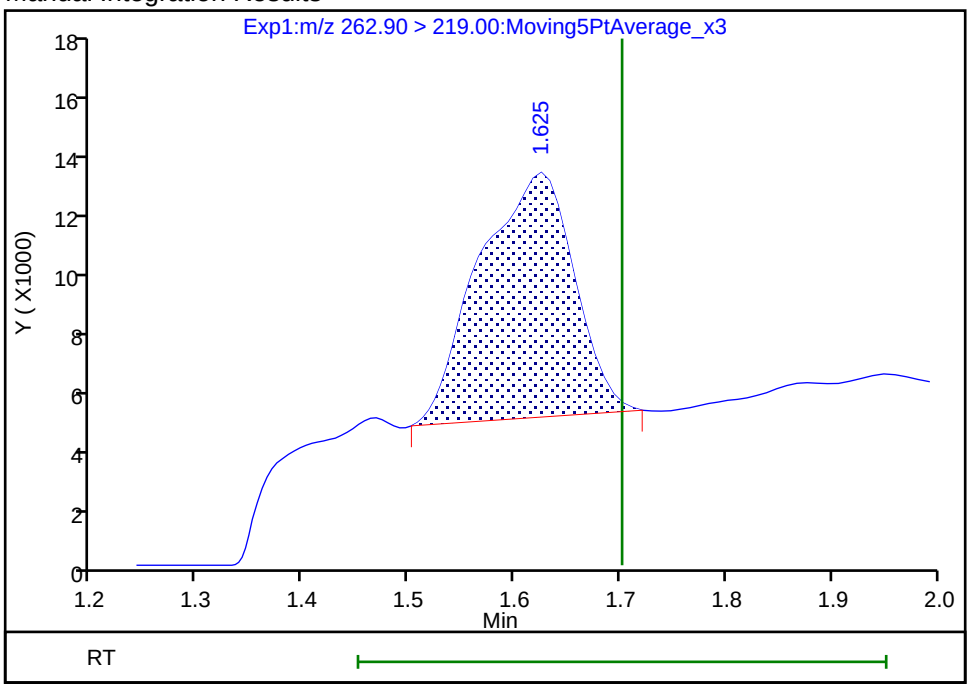
Processing Integration Results

RT: 1.63
Area: 71978
Amount: 0.036924
Amount Units: ng/ml



Manual Integration Results

RT: 1.63
Area: 51727
Amount: 0.028248
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

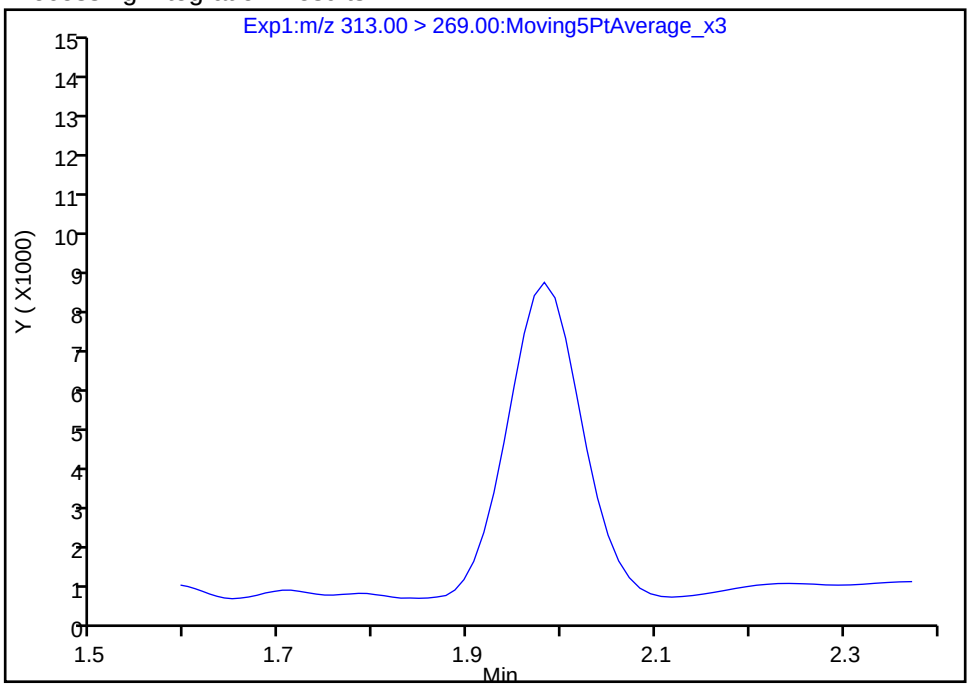
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

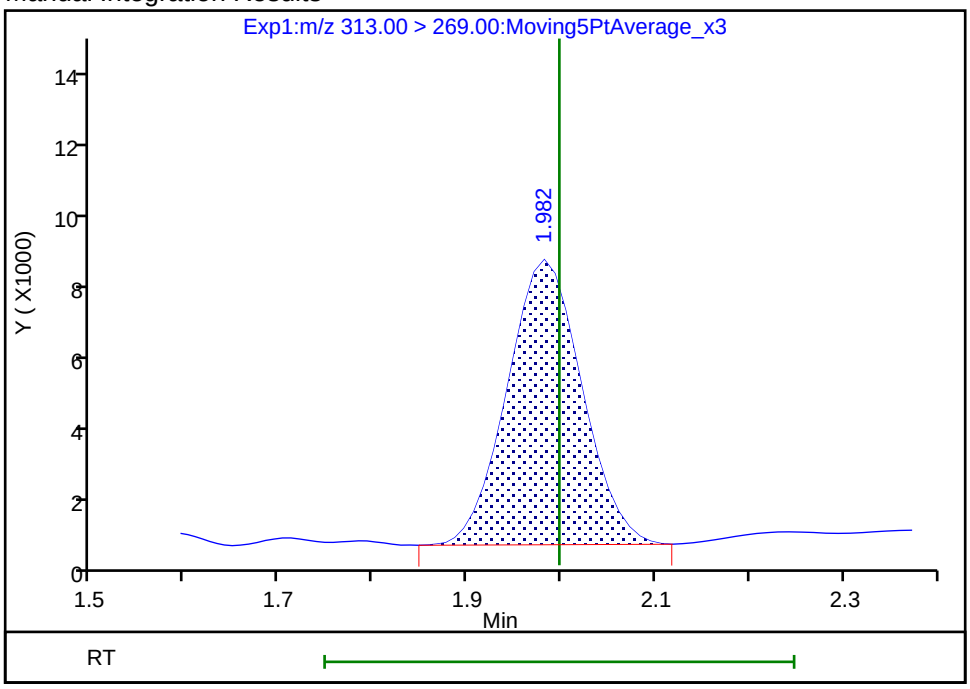
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 1.98
Area: 41864
Amount: 0.025033
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:15
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

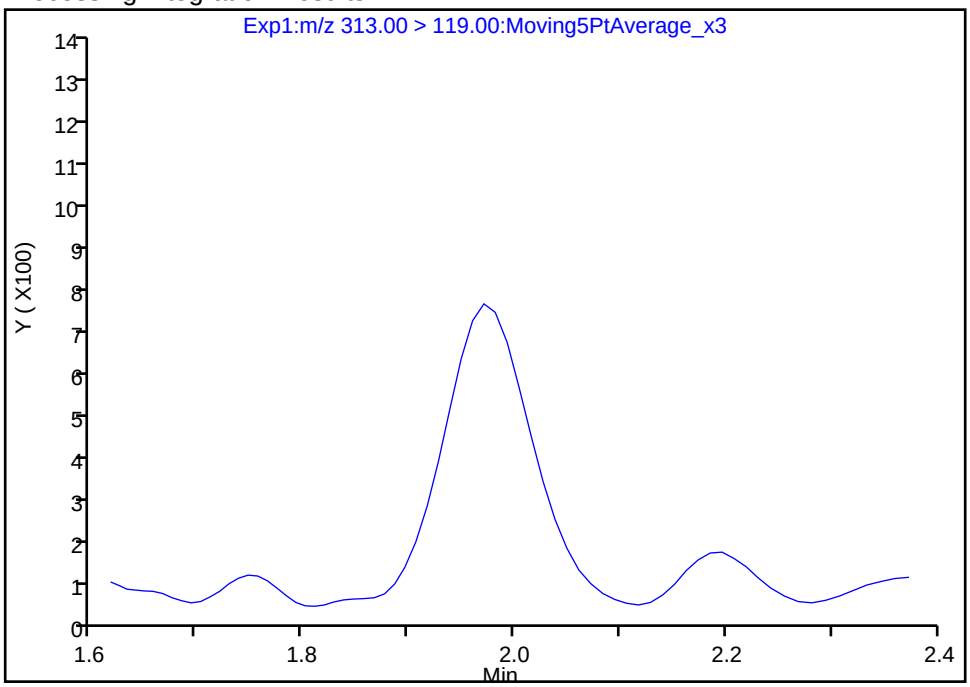
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

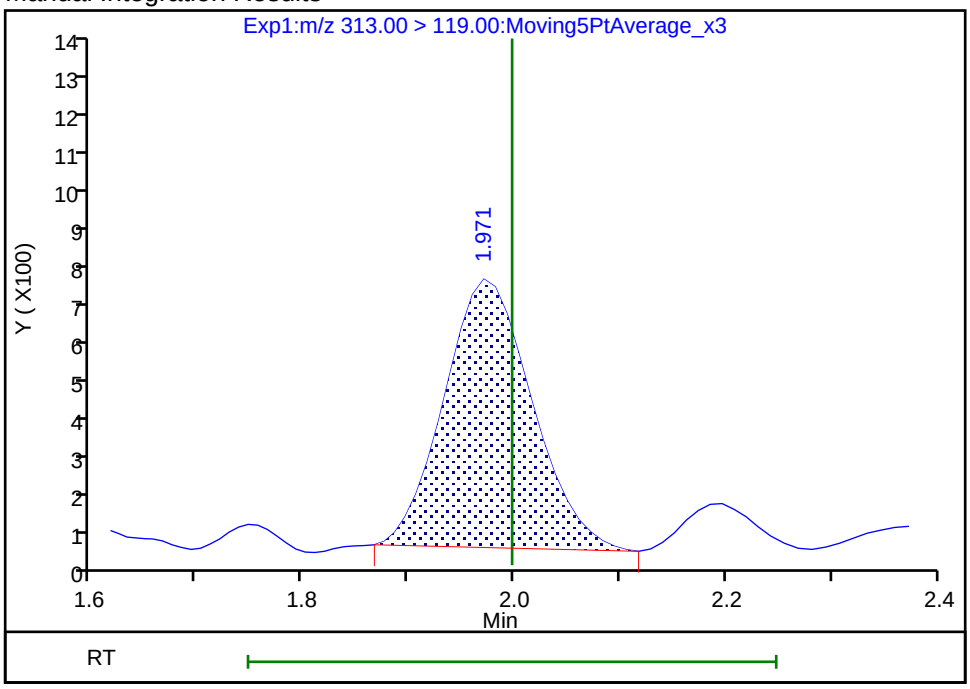
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 1.97
Area: 4020
Amount: 0.025033
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:17
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

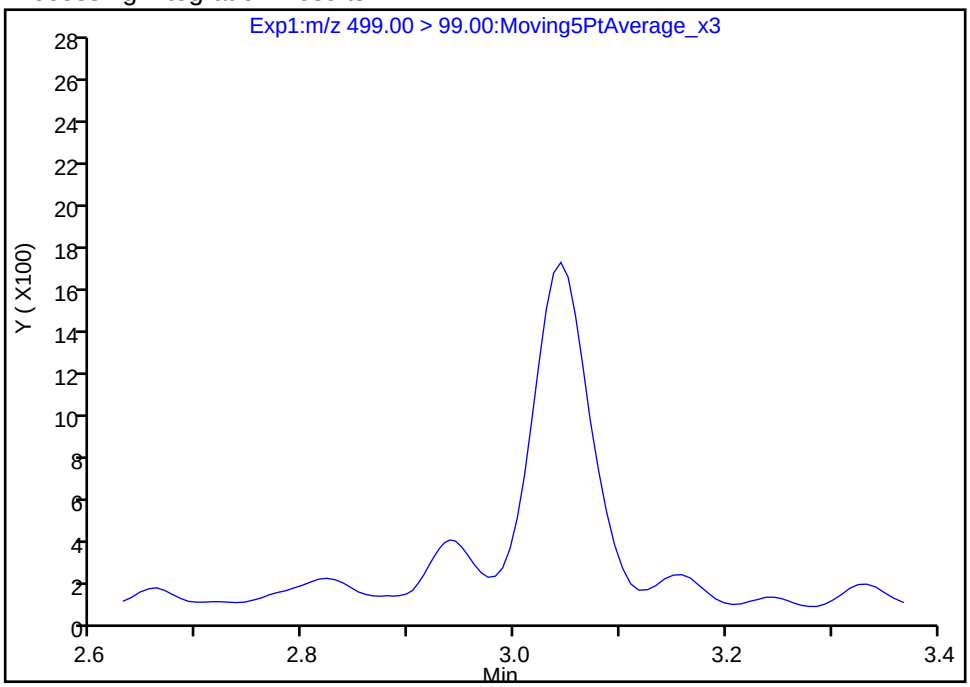
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

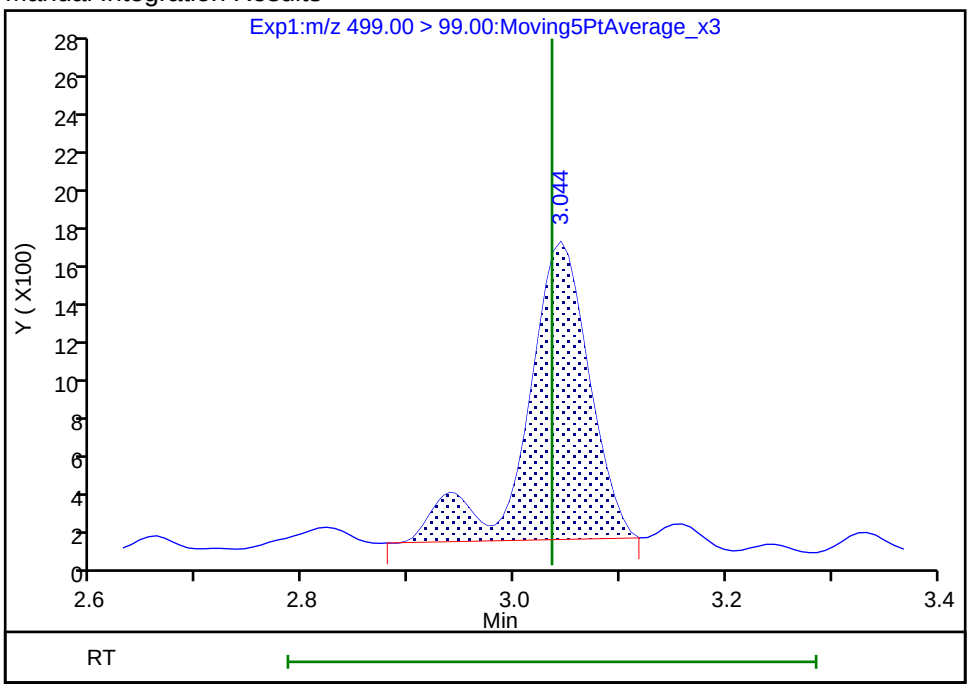
Processing Integration Results

RT: 3.03
Area: 0
Amount: 0.025719
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 6341
Amount: 0.024079
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:33
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jul-2018 14:59:35 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:24 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:14:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.428	1.431	-0.003	0.534	5621166	2.34		93.6	27203	
2 Perfluorobutyric acid										
212.90 > 169.00	1.428	1.431	-0.003	1.000	109256	0.0493		98.6	39.2	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.702	0.014	1.005	103977	0.0549		110	36.1	
D 3 13C5-PFPeA										
267.90 > 223.00	1.707	1.702	0.005	0.639	3905774	2.34		93.6	45504	
D 47 13C3-PFBS										
301.90 > 83.00	1.752	1.748	0.004	0.656	94108	2.24		96.5	592	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.752	1.751	0.001	1.000	137206	0.0443		100	2151	
298.90 > 99.00	1.752	1.751	0.001	1.000	53563		2.56(1.25-3.74)	100	710	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.962	0.004	1.122	23943	0.0455		97.4	1421	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.962	0.004	0.736	509407	2.26		96.8	8344	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	1.996	0.003	0.748	4333312	2.41		96.2	64902	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.999	1.998	0.001	1.000	97977	0.0549		110	183	M
313.00 > 119.00	1.999	1.998	0.001	1.000	6918		14.16(5.03-15.10)	110	125	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	133528	0.0473		101	2986	
349.00 > 99.00	2.022	2.022	0.0	1.154	49366		2.70(1.36-4.07)	101	988	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.093	-0.003	0.782	284852	2.22		88.9	8528	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										M
329.10 > 285.00	2.090	2.095	-0.005	1.000	15816	0.0523		105	83.0	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.319	-0.004	0.866	3963601	2.39		95.5	39266	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.319	-0.004	1.000	99091	0.0540		108	190	
363.00 > 169.00	2.315	2.319	-0.004	1.000	33565		2.95(1.13-3.40)	108	294	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.332	-0.004	1.000	120291	0.0457		100	1829	
399.00 > 99.00	2.329	2.332	-0.004	1.000	39862		3.02(1.50-4.49)	100	297	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.334	-0.006	0.871	5419785	2.31		97.5	38199	
65 Adona										
377.00 > 251.00	2.355	2.360	-0.005	0.777	258910	0.0472		100	3460	
377.00 > 85.00	2.355	2.360	-0.005	0.777	138046		1.88(0.84-2.53)	100	781	
D 12 M2-6:2FTS										
429.00 > 81.00	2.642	2.645	-0.003	0.989	834970	2.35		98.8	12376	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.650	2.648	0.002	1.003	25517	0.0464		97.9	550	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.672	0.001	1.000	112267	0.0542		108	71.2	
413.00 > 169.00	2.665	2.672	-0.007	0.997	54050		2.08(0.84-2.52)	108	261	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.672	0.001		4427596	2.50			33183	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.672	0.001	1.000	4207903	2.49		99.4	45634	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.678	-0.005	0.882	100280	0.0447		93.9	3509	
449.00 > 99.00	2.673	2.678	-0.005	0.882	27817		3.60(1.94-5.82)	93.9	749	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.034	-0.002	1.134	4069838	2.36		98.7	38607	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.035	-0.003	1.134	3839924	2.54		101	39904	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.035	-0.003	1.000	89440	0.0464		99.9	2154	
499.00 > 99.00	3.032	3.035	-0.003	1.000	18719		4.78(2.31-6.93)	99.9	310	
20 Perfluorononanoic acid										
463.00 > 419.00	3.039	3.036	0.003	1.002	84772	0.0498		99.5	213	
463.00 > 169.00	3.032	3.036	-0.004	1.000	19632		4.32(1.90-5.69)	99.5	740	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.245	0.002	1.071	146856	0.0470		101	1774	
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.367	0.003	1.261	6150410	2.47		98.9	32394	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.371	-0.001	1.000	123192	0.0508		102	2778	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.379	3.377	0.002	1.114	60641	0.0459		95.7	2262	
549.00 > 99.00	3.379	3.377	0.002	1.114	24151		2.51(1.33-3.97)	95.7	351	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.380	-0.001	1.000	32747	0.0447		93.4	733	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.380	-0.001	1.264	1358867	2.61		109	17826	
D 23 13C2 PFDA										
515.00 > 470.00	3.388	3.391	-0.003	1.268	3274309	2.46		98.6	32070	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.388	3.392	-0.004	1.000	74013	0.0539		108	406	
513.00 > 169.00	3.388	3.392	-0.004	1.000	10870		6.81(2.36-7.09)	108	412	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.547	3.544	0.003	1.327	1276369	2.34		93.7	19760	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.547	3.548	-0.001	1.000	24180	0.0480		96.1	215	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.701	-0.004	1.219	52427	0.0459		95.1	1367	
599.00 > 99.00	3.697	3.701	-0.004	1.219	18077		2.90(1.39-4.16)	95.1	758	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.710	-0.002	1.387	1427681	2.56		102	4014	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.716	0.003	1.391	2825527	2.55		102	42065	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.718	0.001	1.003	26557	0.0526		105	439	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.718	0.001	1.000	49158	0.0531		106	200	
563.00 > 169.00	3.719	3.718	0.001	1.000	14212		3.46(2.12-6.36)	106	596	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.876	3.874	0.002	1.278	209574	0.0464		98.5	6254	
D 36 13C2 PFDoA										
615.00 > 570.00	4.008	4.009	-0.001	1.500	2796780	2.43		97.2	22020	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.008	4.011	-0.003	1.000	55796	0.0457		91.4	28.2	
613.00 > 169.00	4.008	4.011	-0.003	1.000	12342		4.52(2.13-6.40)	91.4	363	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.066	57570	0.0482		96.4	22.2	
663.00 > 169.00	4.271	4.273	-0.002	1.066	17855		3.22(1.25-3.76)	96.4	396	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.511	4.508	0.003	1.688	2667637	2.23		89.4	13833	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.511	4.508	0.003	1.000	15573	0.0561		112	297	
713.00 > 219.00	4.500	4.508	-0.008	0.998	10316		1.51(0.71-2.13)	112	235	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.921	4.918	0.003	1.841	4084288	2.15		85.9	10856	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.921	4.918	0.003	1.000	111481	0.0502		100	26.1	
813.00 > 169.00	4.921	4.918	0.003	1.000	18505		6.02(2.86-8.58)	100	203	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.276	5.271	0.005	1.072	97895	0.0524		105	20.7	
913.00 > 169.00	5.269	5.271	-0.002	1.071	11669		8.39(3.83-11.48)	105	192	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d

Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N

Lims ID: IC L2 Full

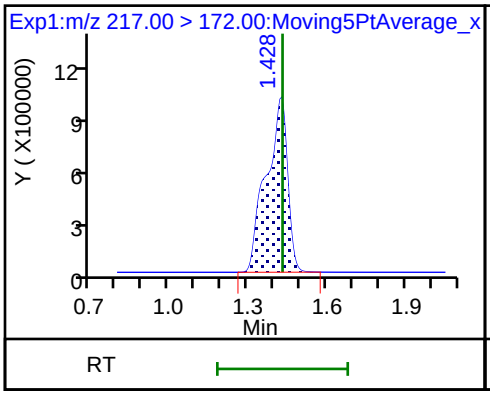
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

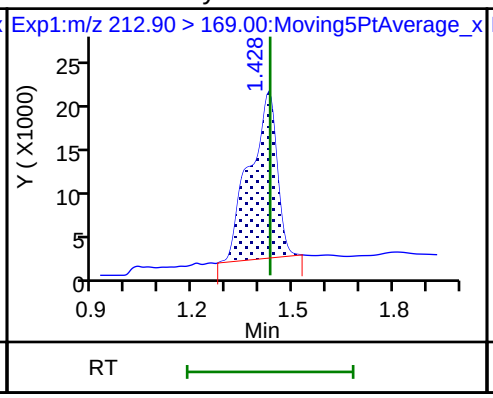
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

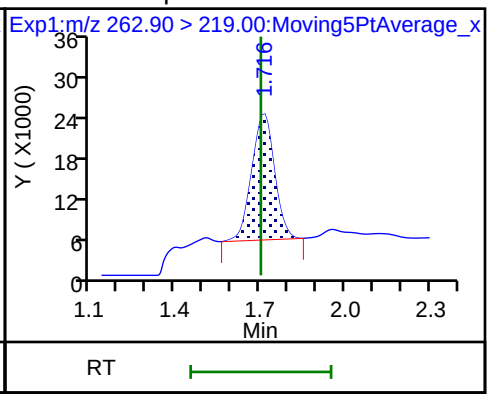
D 1 13C4 PFBA



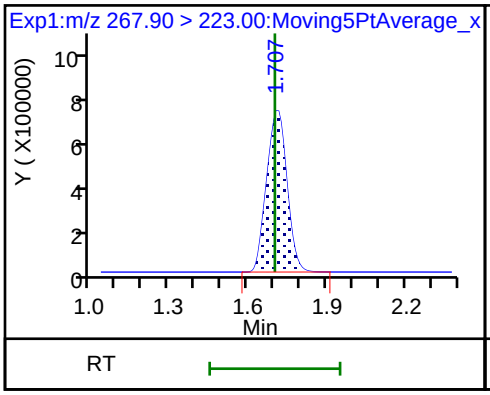
2 Perfluorobutyric acid



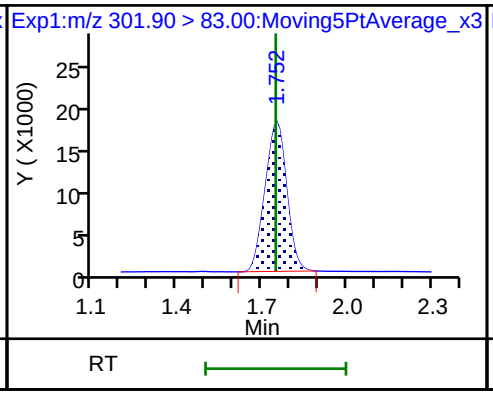
4 Perfluoropentanoic acid



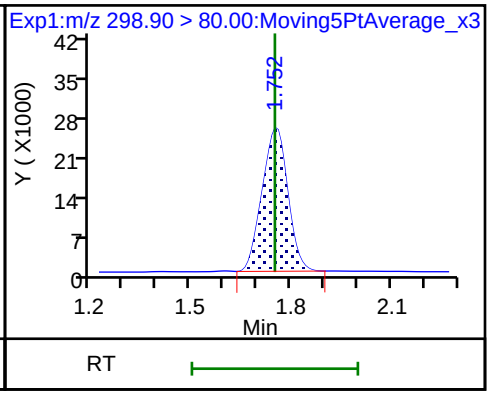
D 3 13C5-PFPeA



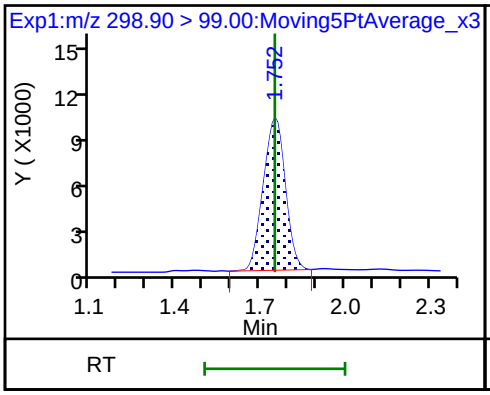
D 47 13C3-PFBS



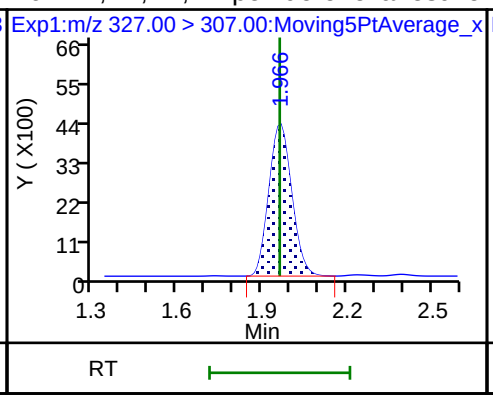
5 Perfluorobutanesulfonic acid



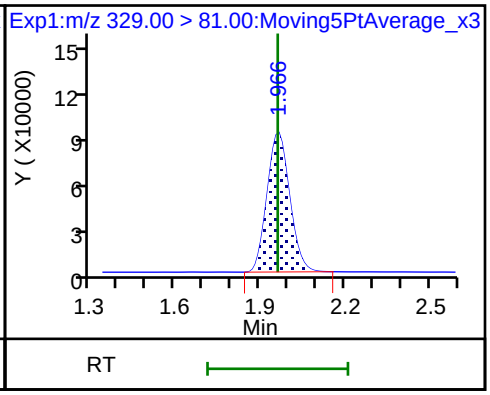
5 Perfluorobutanesulfonic acid



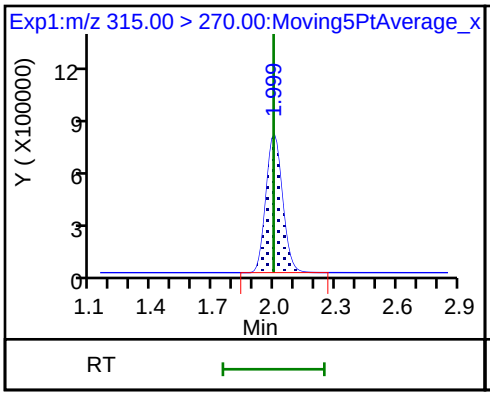
61 1H,1H,2H,2H-perfluorohexanesulfon



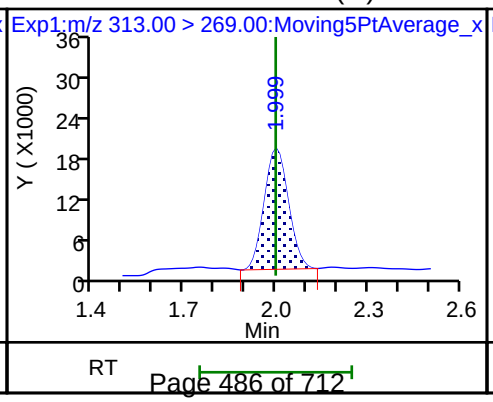
D 60 M2-4:2FTS



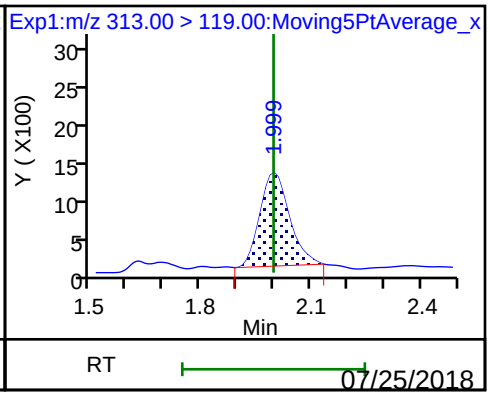
D 7 13C2 PFHxA



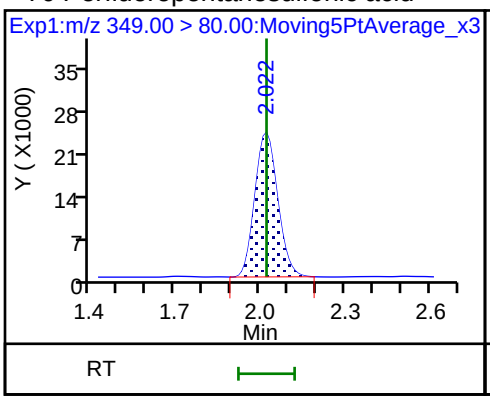
6 Perfluorohexanoic acid (M)



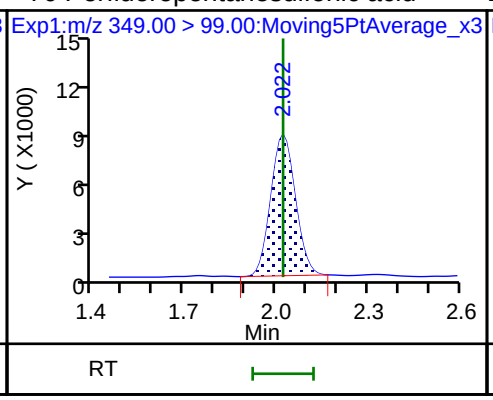
6 Perfluorohexanoic acid



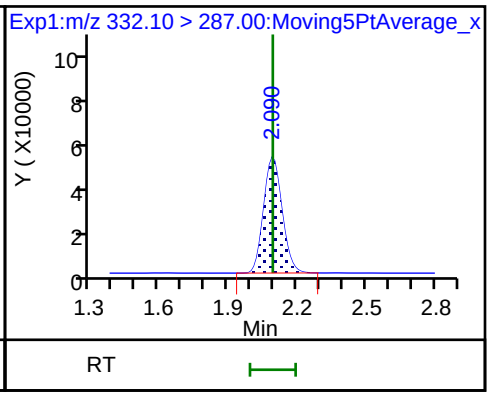
70 Perfluoropentanesulfonic acid



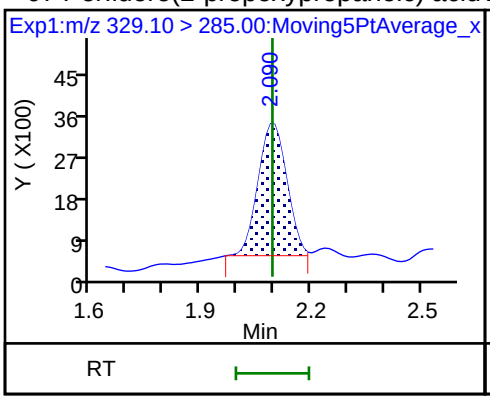
70 Perfluoropentanesulfonic acid



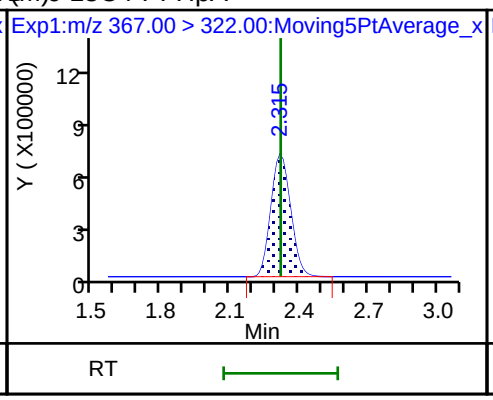
D 64 13C3 HFPO-DA



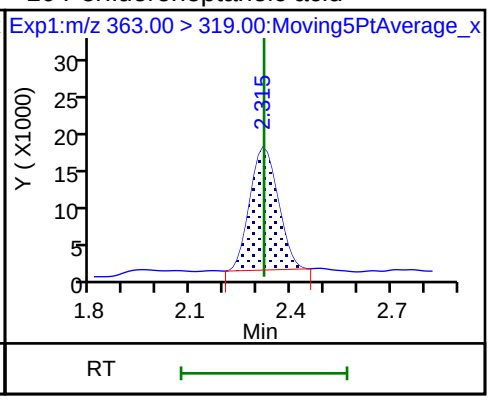
67 Perfluoro(2-propoxypropanoic) acid (M)



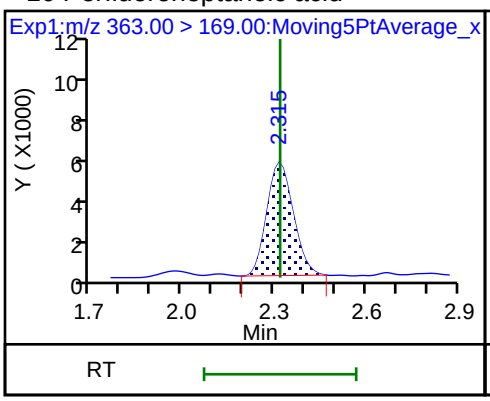
D 9 13C4-PFHpA



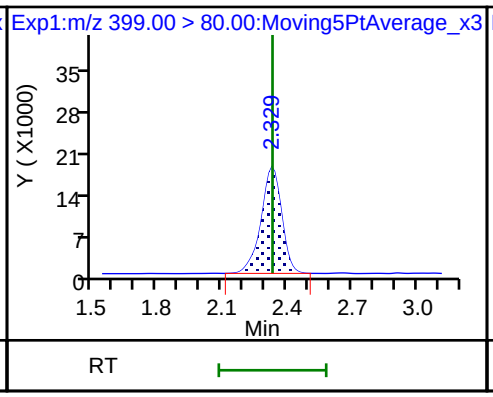
10 Perfluoroheptanoic acid



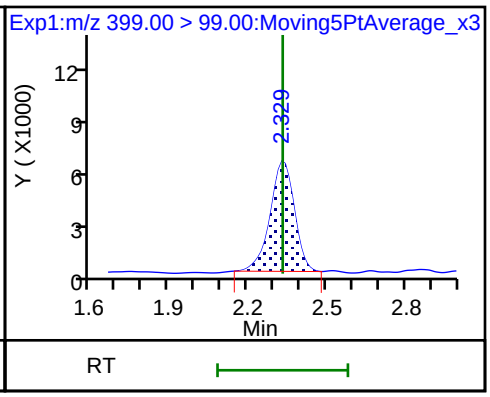
10 Perfluoroheptanoic acid



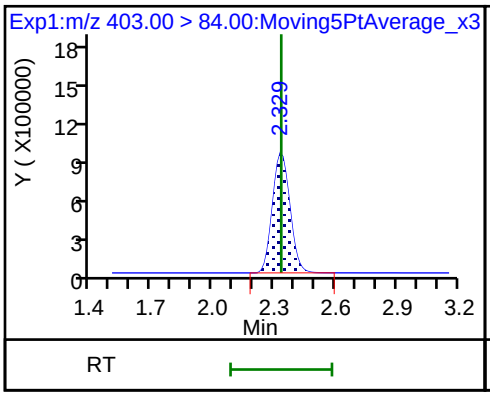
8 Perfluorohexanesulfonic acid



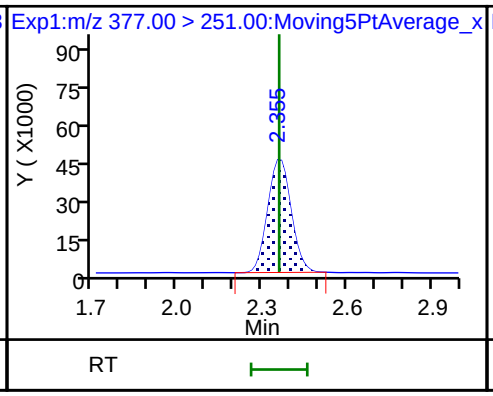
8 Perfluorohexanesulfonic acid



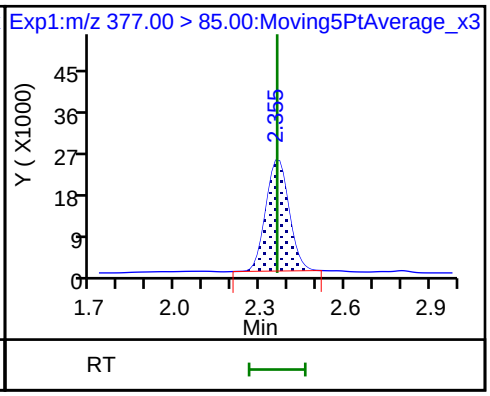
D 11 18O2 PFHxS



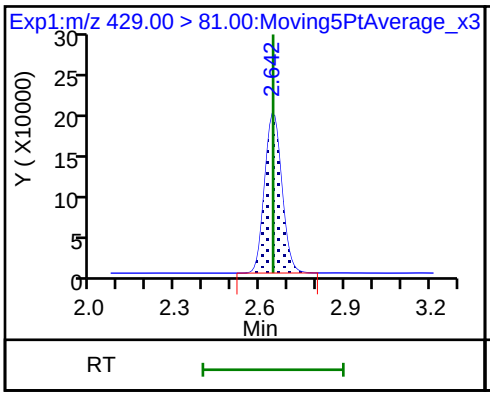
65 Adona



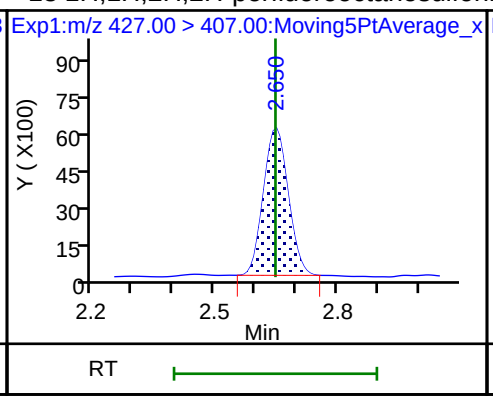
65 Adona



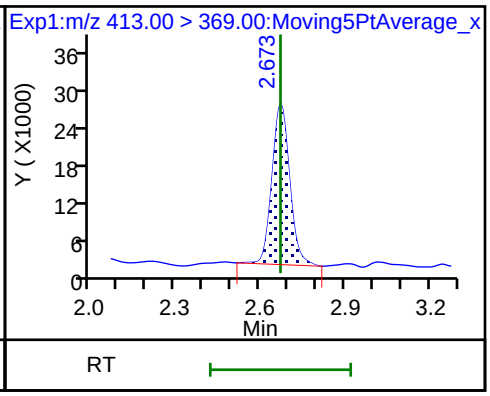
D 12 M2-6:2FTS



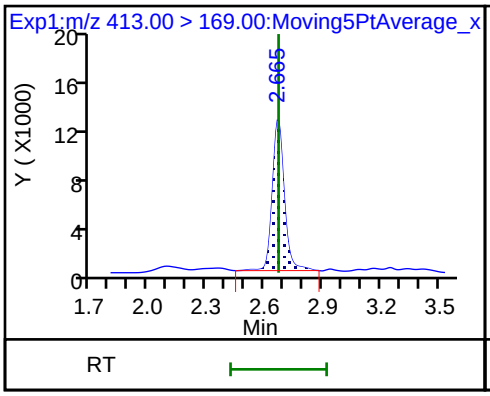
13 1H,1H,2H,2H-perfluorooctanesulfoni



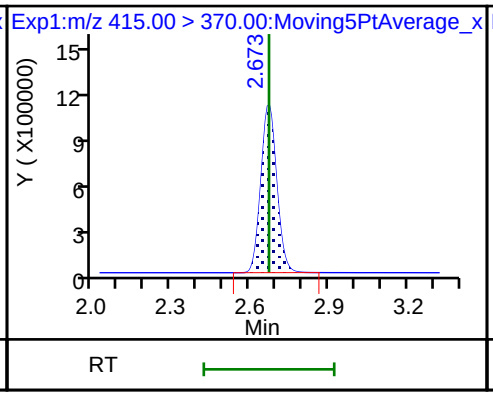
15 Perfluorooctanoic acid



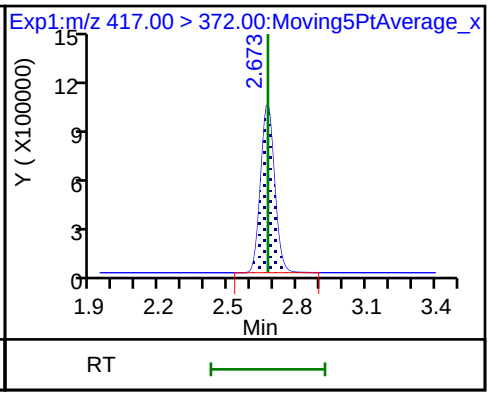
15 Perfluorooctanoic acid



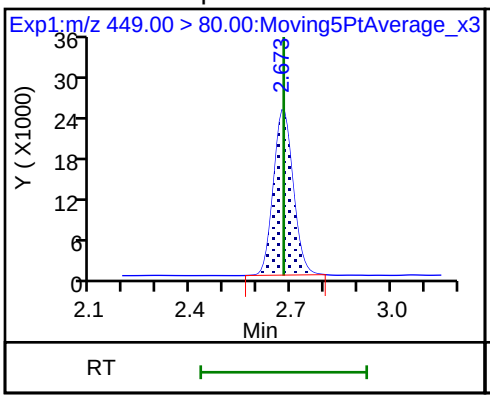
* 62 13C2-PFOA



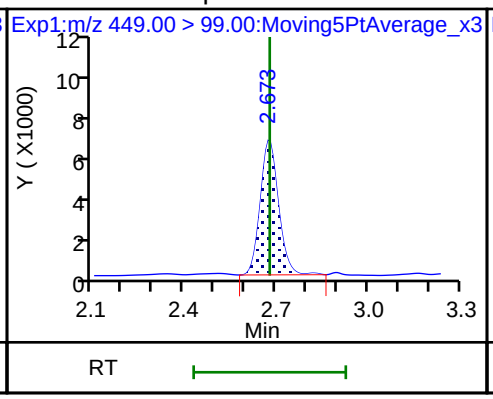
D 14 13C4 PFOA



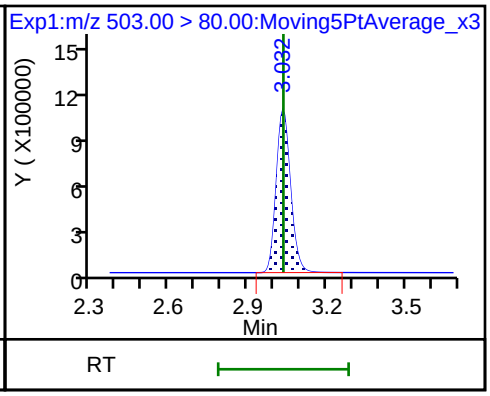
16 Perfluoroheptanesulfonic acid



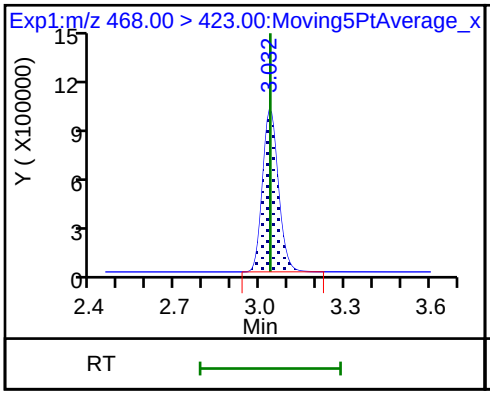
16 Perfluoroheptanesulfonic acid



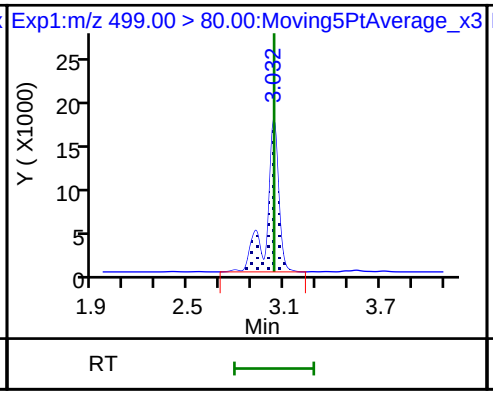
D 18 13C4 PFOS



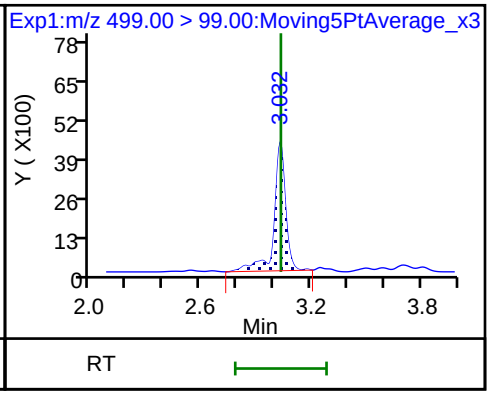
D 19 13C5 PFNA



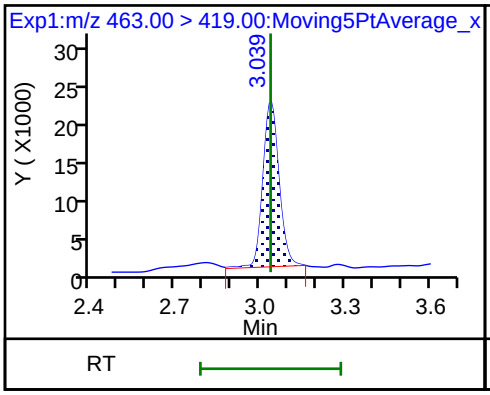
17 Perfluorooctane sulfonic acid



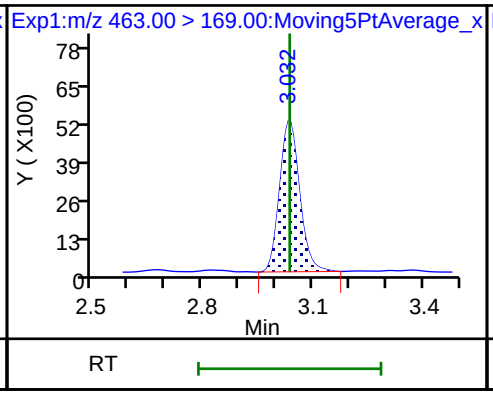
17 Perfluorooctane sulfonic acid



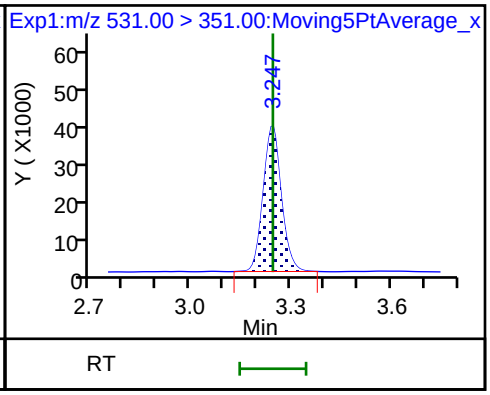
20 Perfluorononanoic acid



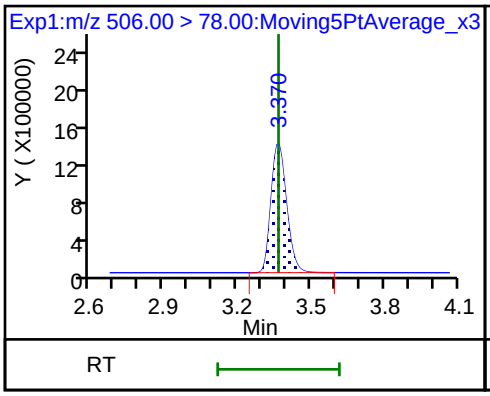
20 Perfluorononanoic acid



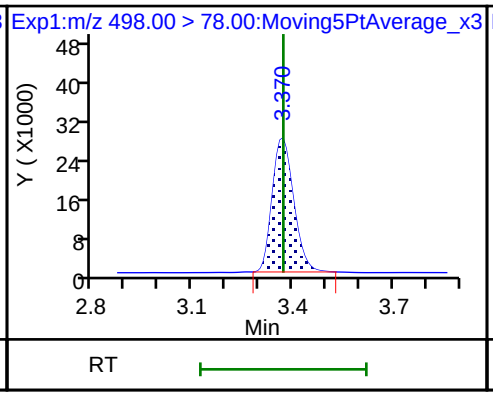
69 9-Chlorohexadecafluoro-3-oxanonane



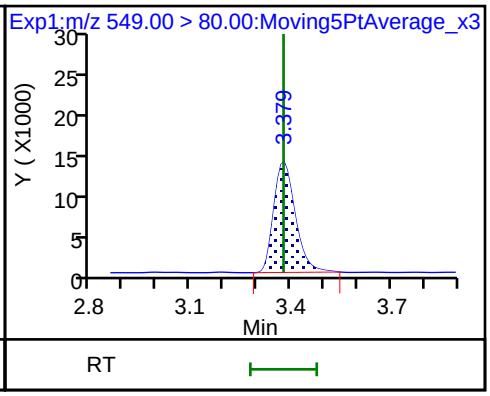
D 21 13C8 FOSA



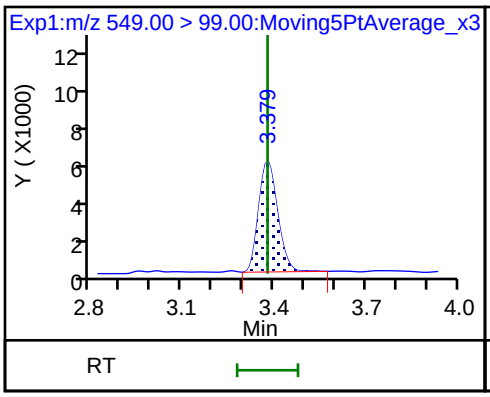
22 Perfluorooctane Sulfonamide



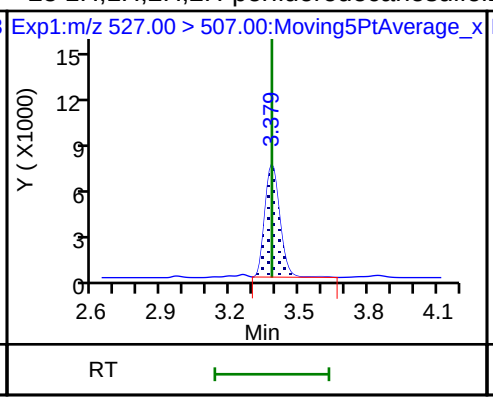
68 Perfluorononanesulfonic acid



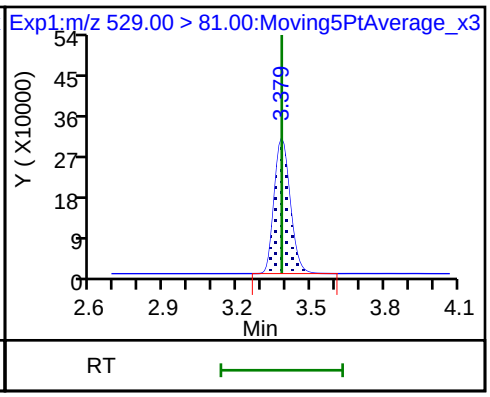
68 Perfluorononanesulfonic acid



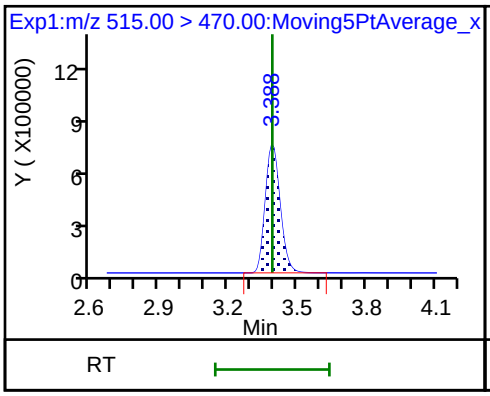
25 1H,1H,2H,2H-perfluorodecanesulfon



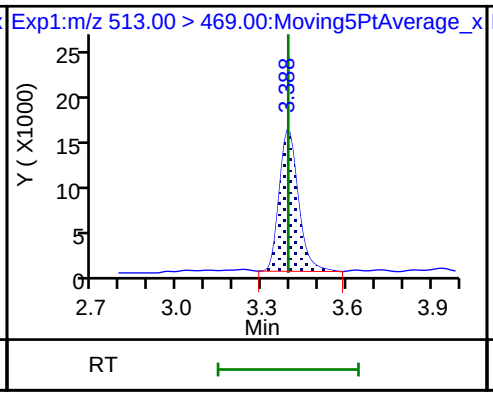
D 26 M2-8:2FTS



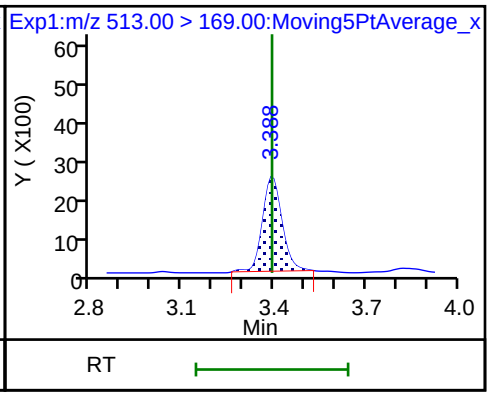
D 23 13C2 PFDA



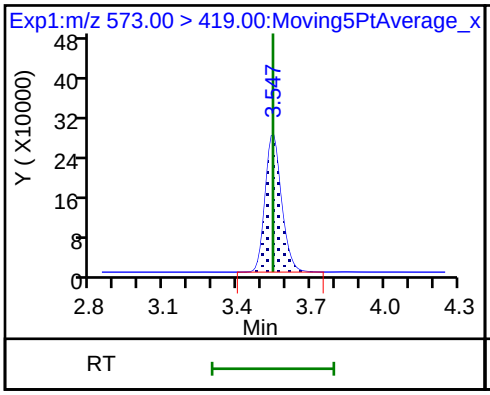
24 Perfluorodecanoic acid



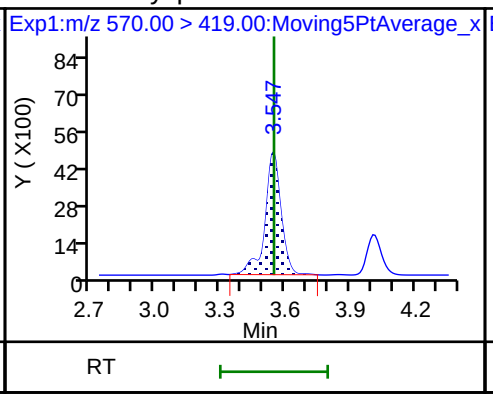
24 Perfluorodecanoic acid



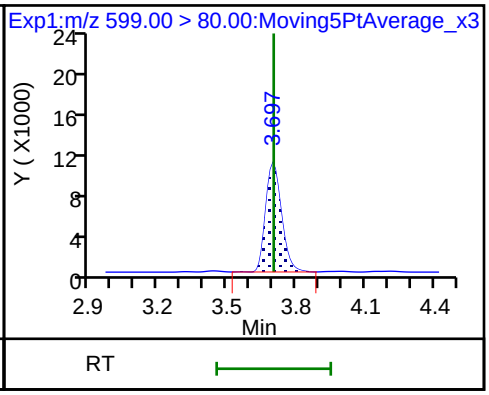
D 27 d3-NMeFOSAA



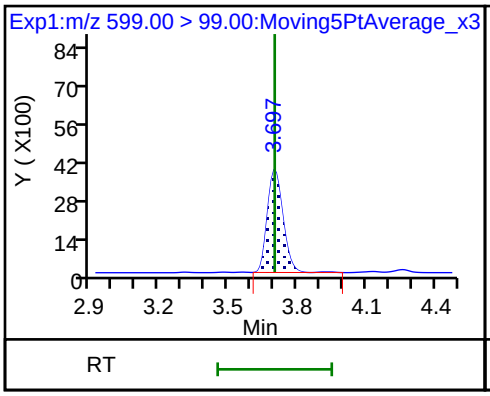
28 N-methyl perfluorooctane sulfonami



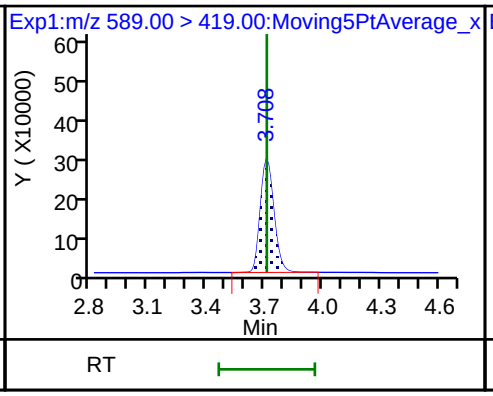
29 Perfluorodecane Sulfonic acid



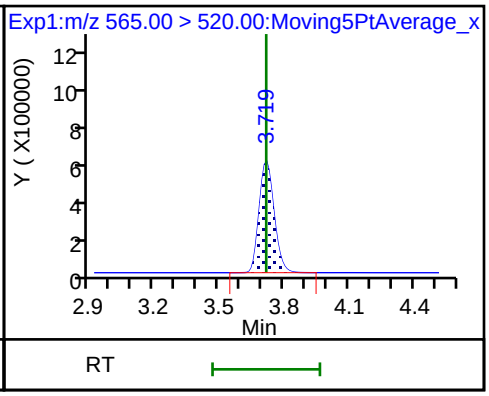
29 Perfluorodecane Sulfonic acid



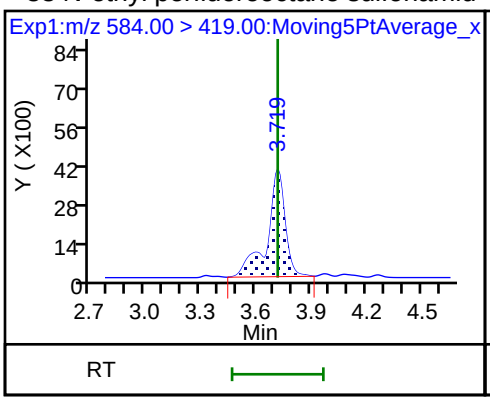
D 32 d5-NEtFOSAA



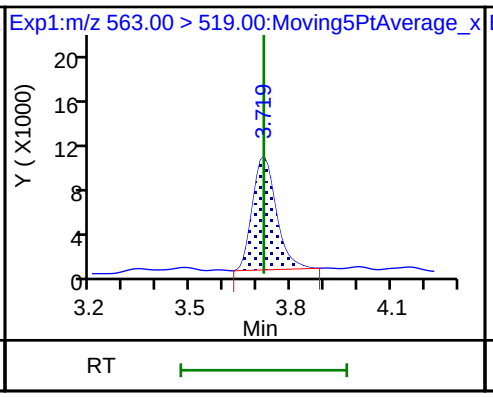
D 30 13C2 PFUnA



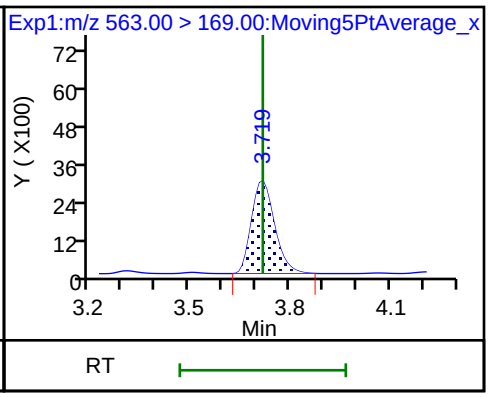
33 N-ethyl perfluorooctane sulfonamid



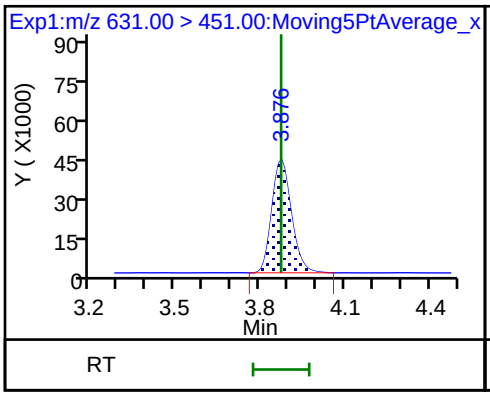
31 Perfluoroundecanoic acid



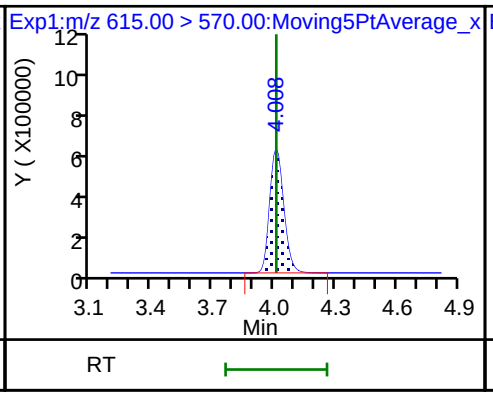
31 Perfluoroundecanoic acid



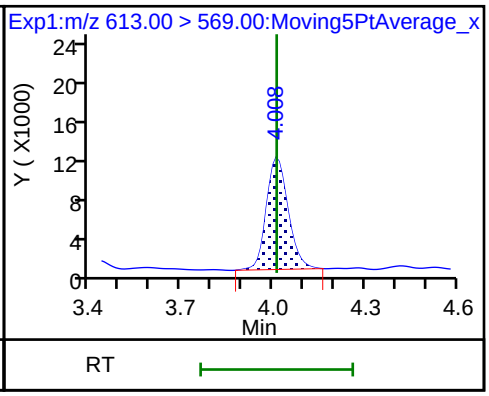
66 11-Chloroeicosafluoro-3-oxaundecan



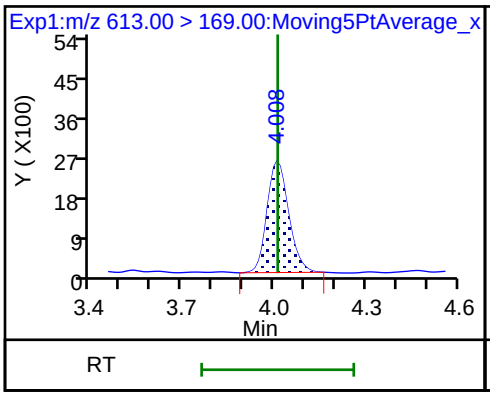
D 36 13C2 PFDoA



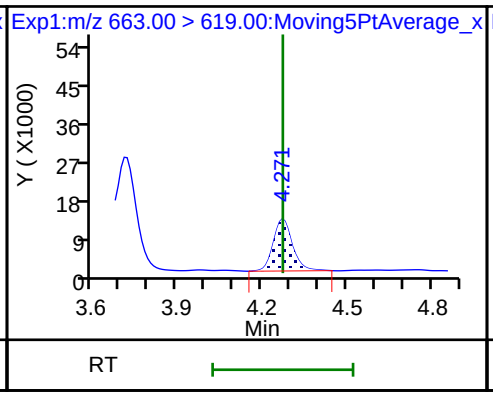
37 Perfluorododecanoic acid



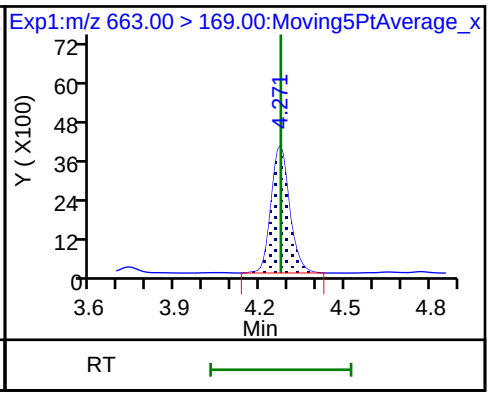
37 Perfluorododecanoic acid



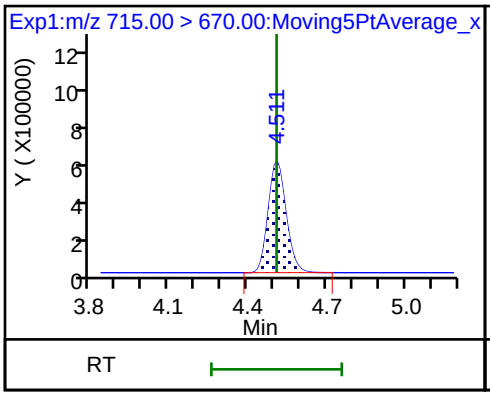
41 Perfluorotridecanoic acid



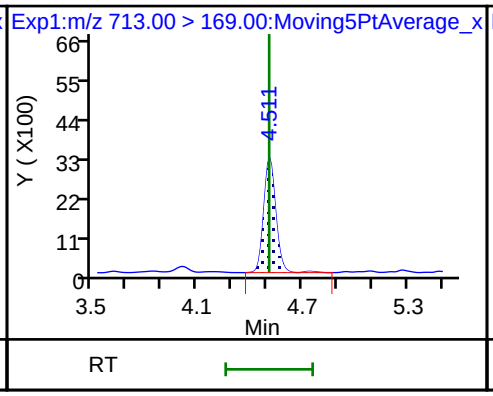
41 Perfluorotridecanoic acid



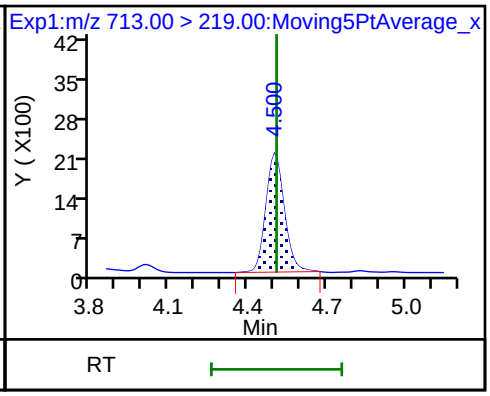
D 43 13C2-PFTeDA



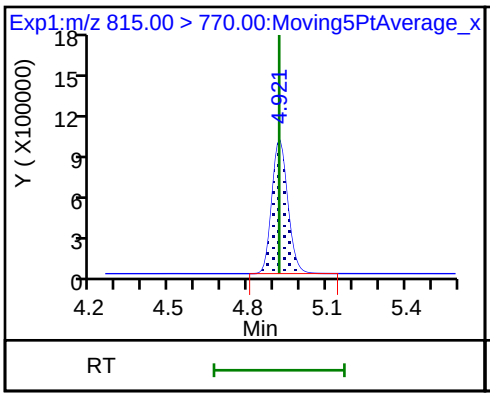
42 Perfluorotetradecanoic acid



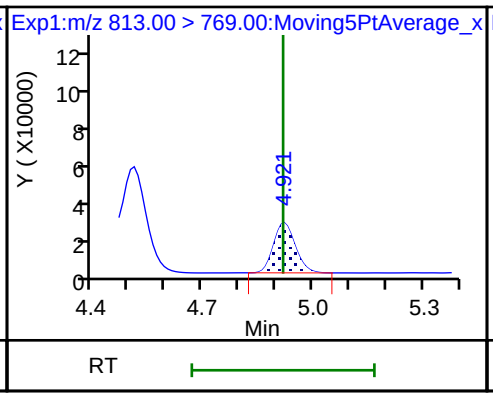
42 Perfluorotetradecanoic acid



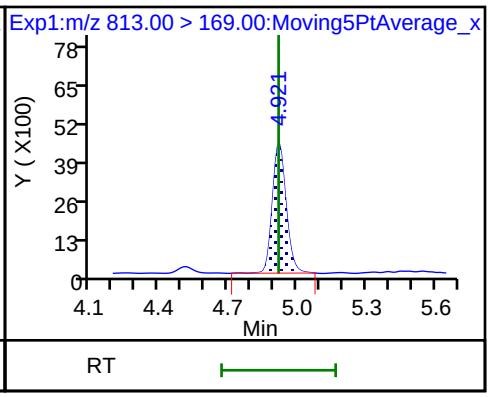
D 44 13C2-PFHxDA



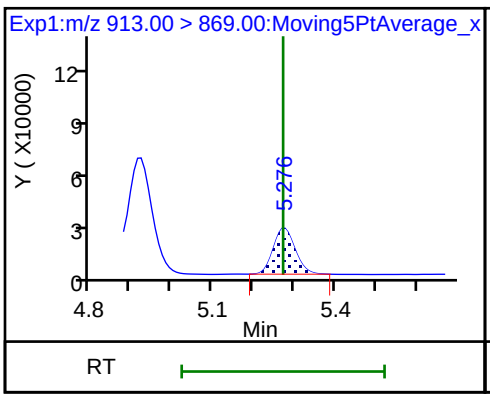
45 Perfluorohexadecanoic acid



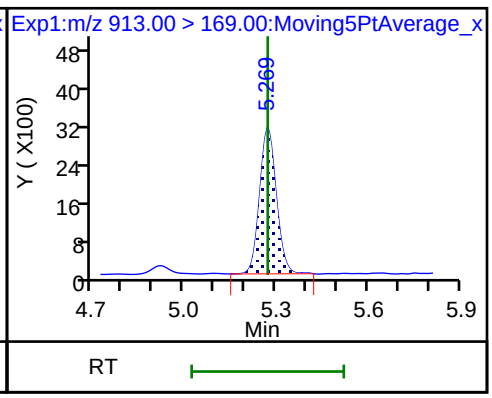
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

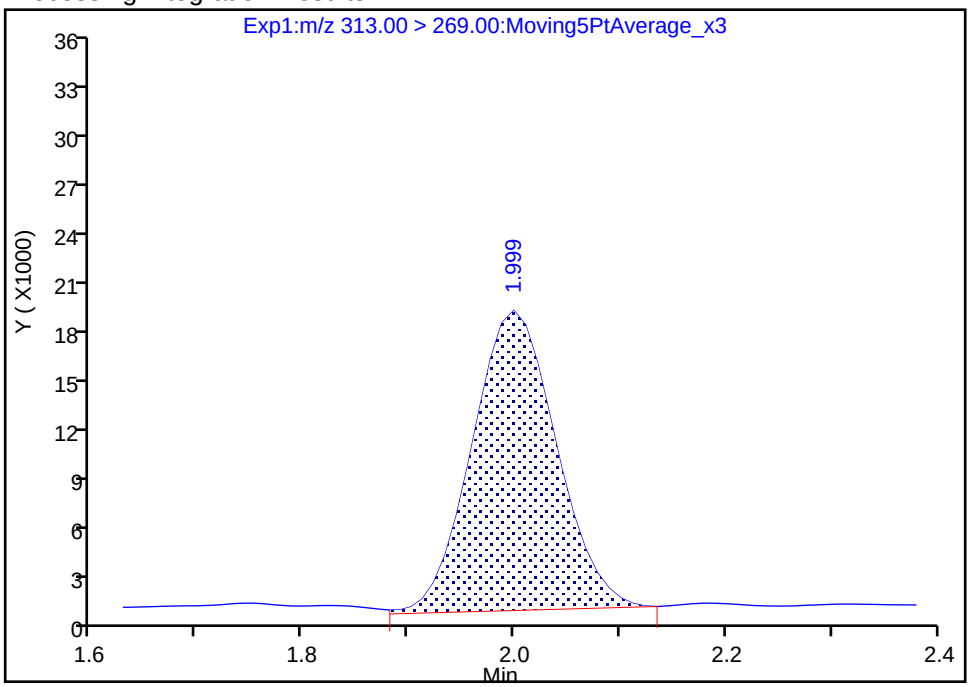
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

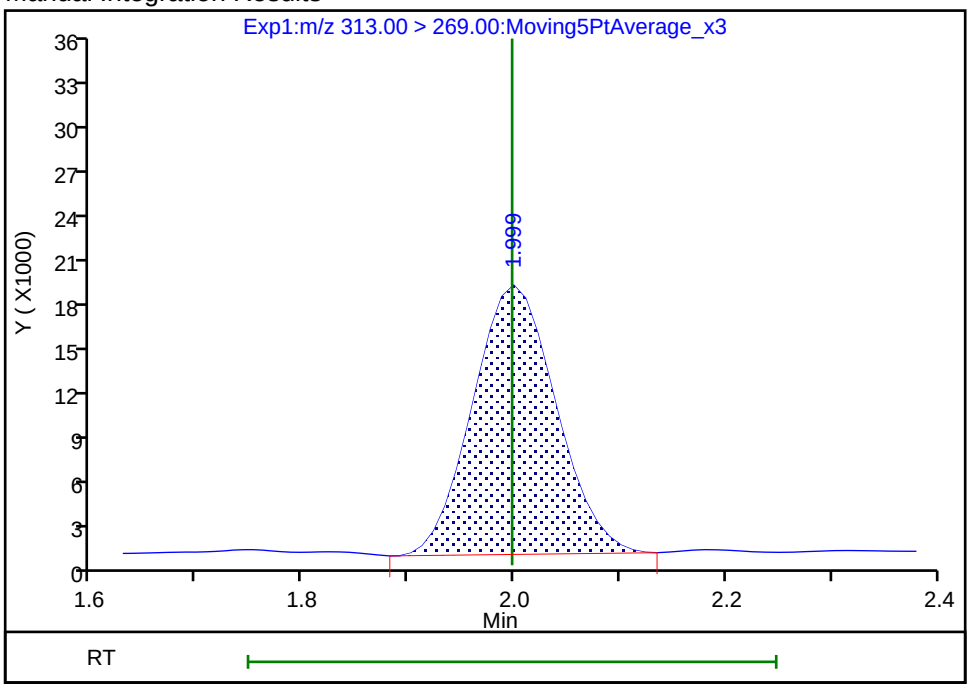
Processing Integration Results

RT: 2.00
Area: 99760
Amount: 0.055756
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 97977
Amount: 0.054916
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:14:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

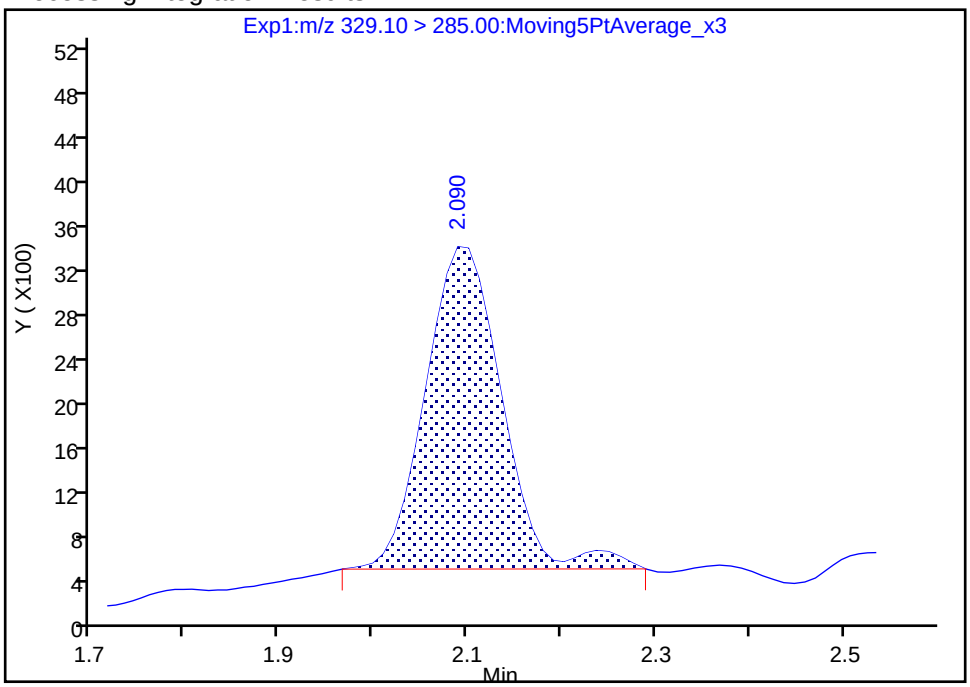
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

67 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

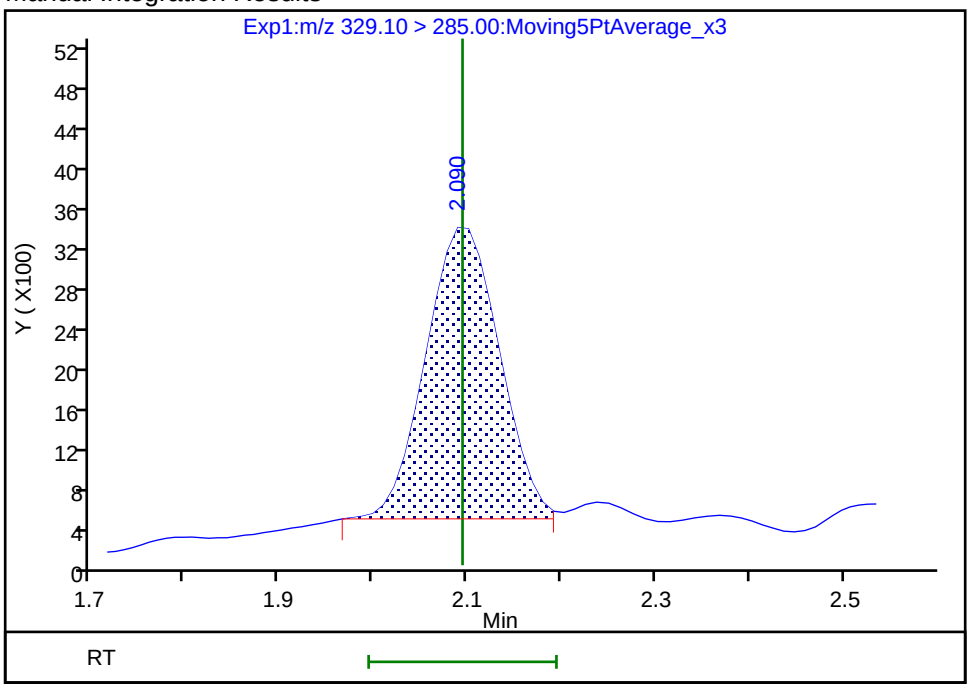
Processing Integration Results

RT: 2.09
Area: 16416
Amount: 0.053978
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 15816
Amount: 0.052300
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:14:48
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jul-2018 15:07:23 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:30 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:15:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.431	0.002	0.536	5436336	2.41		96.4	24567	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.431	0.002	1.000	529569	0.2471		98.8	202	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.717	1.702	0.015	1.000	457354	0.2433		97.3	160	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.702	0.015	0.642	3873105	2.47		98.8	42101	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.748	0.005	0.656	88873	2.26		97.0	524	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.751	0.011	1.005	638814	0.2185		98.9	8863	
298.90 > 99.00	1.762	1.751	0.011	1.005	266379		2.40(1.25-3.74)	98.9	3761	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.962	0.005	1.122	121859	0.2452		105	7228	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.962	0.005	0.736	453992	2.15		91.9	6280	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	1.996	0.004	0.748	4144632	2.45		98.0	56089	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	1.998	0.002	1.000	407905	0.2390		95.6	865	
313.00 > 119.00	2.011	1.998	0.013	1.006	41779		9.76(5.03-15.10)	95.6	715	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	586514	0.2199		93.8	12660	
349.00 > 99.00	2.022	2.022	0.0	1.154	229923		2.55(1.36-4.07)	93.8	4978	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.093	0.008	0.786	281279	2.34		93.5	7182	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.095	0.006	1.000	79161	0.2651		106	493	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.319	-0.003	0.866	3856910	2.48		99.0	30519	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.319	-0.003	1.000	425549	0.2385		95.4	899	
363.00 > 169.00	2.329	2.319	0.010	1.006	165310		2.57(1.13-3.40)	95.4	1725	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.332	-0.003	0.994	552716	0.2184		96.0	6193	
399.00 > 99.00	2.329	2.332	-0.003	0.994	175761		3.14(1.50-4.49)	96.0	1241	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.334	0.008	0.876	5214223	2.36		99.9	45677	
65 Adona										
377.00 > 251.00	2.369	2.360	0.009	0.779	1281398	0.2554		108	20243	
377.00 > 85.00	2.369	2.360	0.009	0.779	705403		1.82(0.84-2.53)	108	4501	
D 12 M2-6:2FTS										
429.00 > 81.00	2.651	2.645	0.006	0.992	825525	2.47		104	16673	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.648	0.003	1.000	126798	0.2332		98.4	3070	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.672	0.001	1.000	477183	0.2439		97.5	300	
413.00 > 169.00	2.673	2.672	0.001	1.000	243974		1.96(0.84-2.52)	97.5	1162	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.672	0.001		4157437	2.50			35542	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.672	0.001	1.000	3971401	2.50		99.9	35256	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.681	2.678	0.003	0.882	473940	0.2308		97.0	10273	
449.00 > 99.00	2.681	2.678	0.003	0.882	132840		3.57(1.94-5.82)	97.0	3201	
D 18 13C4 PFOS										
503.00 > 80.00	3.041	3.034	0.006	1.137	3725581	2.30		96.2	37410	
D 19 13C5 PFNA										
468.00 > 423.00	3.041	3.035	0.005	1.137	3471672	2.44		97.7	33386	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.041	3.035	0.005	1.000	401226	0.2271		97.9	16115	M
499.00 > 99.00	3.041	3.035	0.005	1.000	96776		4.15(2.31-6.93)	97.9	1665	
20 Perfluorononanoic acid										
463.00 > 419.00	3.041	3.036	0.004	1.000	400644	0.2601		104	1028	
463.00 > 169.00	3.041	3.036	0.004	1.000	95787		4.18(1.90-5.69)	104	4136	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.248	3.245	0.003	1.068	651675	0.2277		97.7	6549	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.367	0.005	1.261	5880733	2.52		101	49438	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.371	0.001	1.000	554186	0.2390		95.6	12564	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.382	3.377	0.005	1.112	284813	0.2357		98.2	7165	
549.00 > 99.00	3.382	3.377	0.005	1.112	107969		2.64(1.33-3.97)	98.2	2059	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.382	3.380	0.002	1.000	159408	0.2293		95.7	3552	
D 26 M2-8:2FTS										
529.00 > 81.00	3.382	3.380	0.002	1.265	1290698	2.64		110	16986	
D 23 13C2 PFDA										
515.00 > 470.00	3.391	3.391	0.0	1.268	3265845	2.62		105	29557	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.400	3.392	0.008	1.003	342607	0.2499		100.0	1591	
513.00 > 169.00	3.391	3.392	-0.001	1.000	61738		5.55(2.36-7.09)	100.0	2779	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.549	3.544	0.005	1.328	1236119	2.42		96.7	19234	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.549	3.548	0.001	1.000	112830	0.2315		92.6	886	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.711	3.701	0.010	1.220	256645	0.2452		102	8829	
599.00 > 99.00	3.711	3.701	0.010	1.220	89186		2.88(1.39-4.16)	102	1861	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.711	3.710	0.001	1.388	1297377	2.48		99.1	3280	
D 30 13C2 PFUnA										
565.00 > 520.00	3.721	3.716	0.005	1.392	2653699	2.55		102	34580	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.721	3.718	0.003	1.003	130099	0.2836		113	3716	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.721	3.718	0.003	1.000	199100	0.2289		91.6	1135	
563.00 > 169.00	3.721	3.718	0.003	1.000	53794		3.70(2.12-6.36)	91.6	2788	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.878	3.874	0.004	1.275	1059951	0.2563		109	31878	
D 36 13C2 PFDoA										
615.00 > 570.00	4.009	4.009	0.0	1.500	2756034	2.55		102	18796	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.019	4.011	0.008	1.003	296160	0.2460		98.4	160	
613.00 > 169.00	4.019	4.011	0.008	1.003	71984		4.11(2.13-6.40)	98.4	2474	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.272	4.273	-0.001	1.066	297546	0.2528		101	132	
663.00 > 169.00	4.272	4.273	-0.001	1.066	94397		3.15(1.25-3.76)	101	1582	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.511	4.508	0.003	1.687	2913500	2.60		104	13512	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.511	4.508	0.003	1.000	71477	0.2357		94.3	1159	
713.00 > 219.00	4.511	4.508	0.003	1.000	50792		1.41(0.71-2.13)	94.3	1208	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.922	4.918	0.004	1.841	4554944	2.55		102	11164	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.922	4.918	0.004	1.000	477512	0.2543		102	115	
813.00 > 169.00	4.922	4.918	0.004	1.000	73483		6.50(2.86-8.58)	102	773	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.276	5.271	0.005	1.072	536098	0.2575		103	109	
913.00 > 169.00	5.276	5.271	0.005	1.072	65383		8.20(3.83-11.48)	103	956	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d

Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N

Lims ID: IC L3 Full

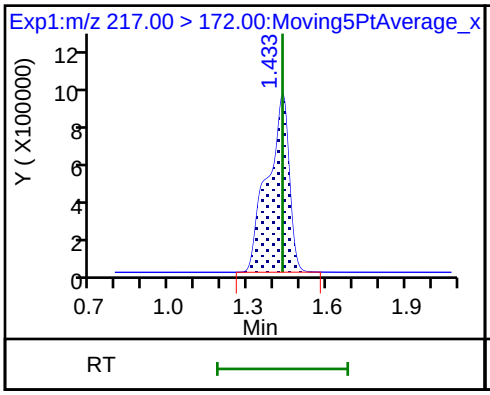
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

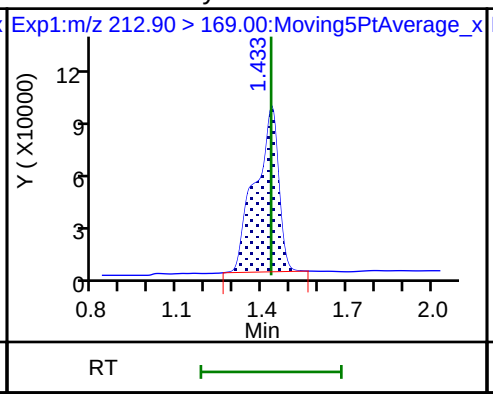
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

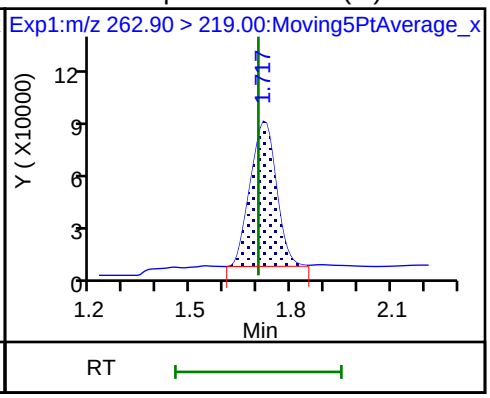
D 1 13C4 PFBA



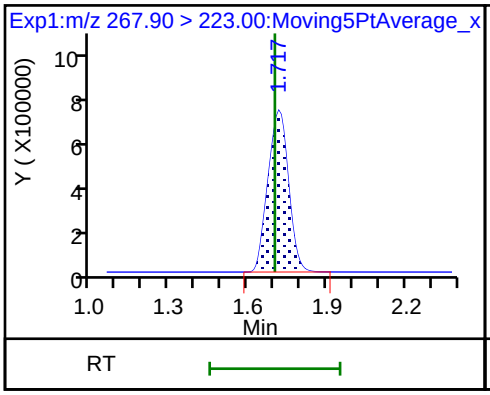
2 Perfluorobutyric acid



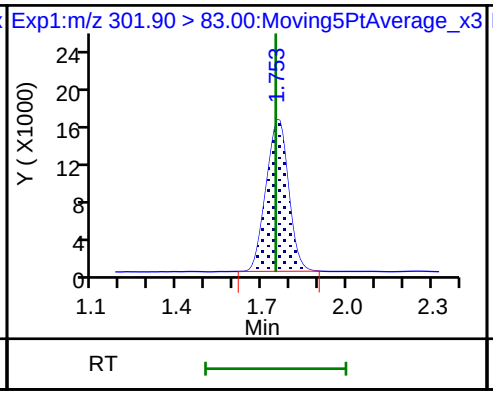
4 Perfluoropentanoic acid (M)



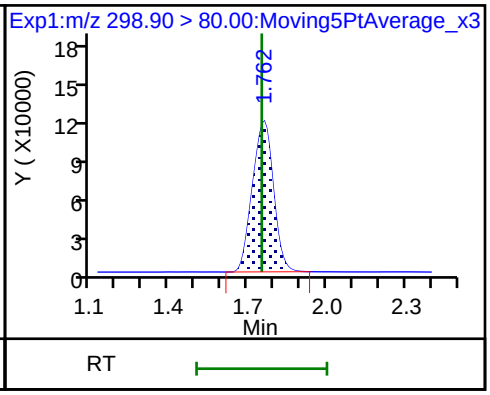
D 3 13C5-PFPeA



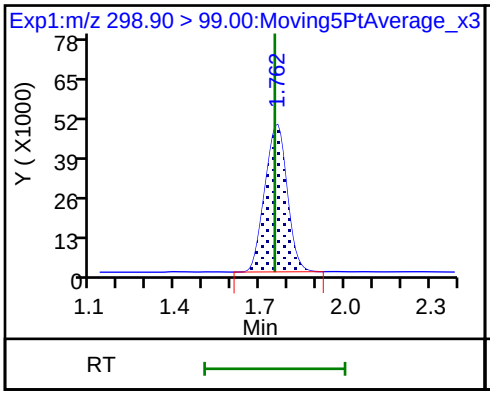
D 47 13C3-PFBS



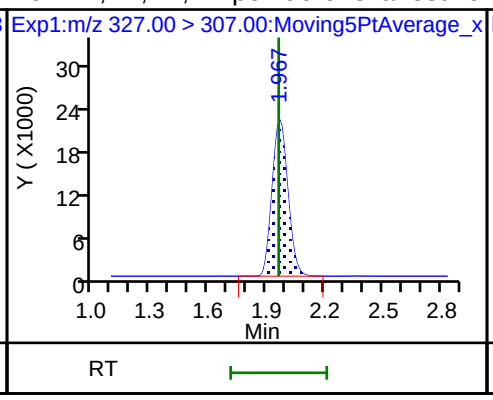
5 Perfluorobutanesulfonic acid



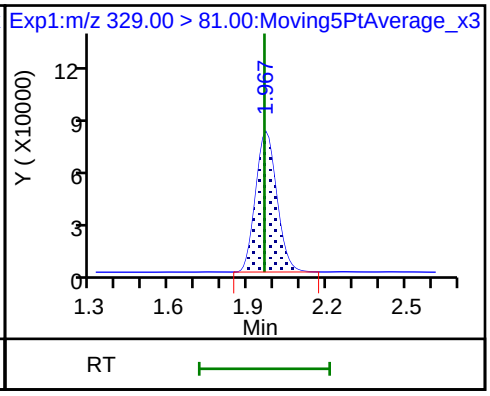
5 Perfluorobutanesulfonic acid



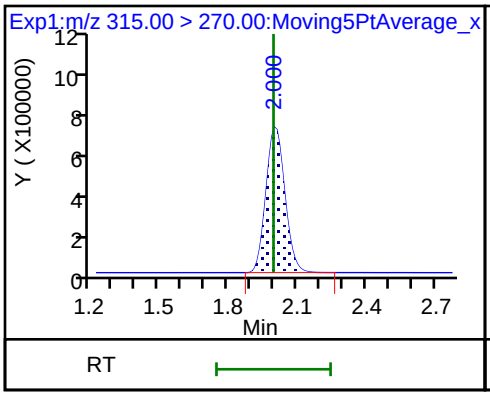
61 1H,1H,2H,2H-perfluorohexanesulfon



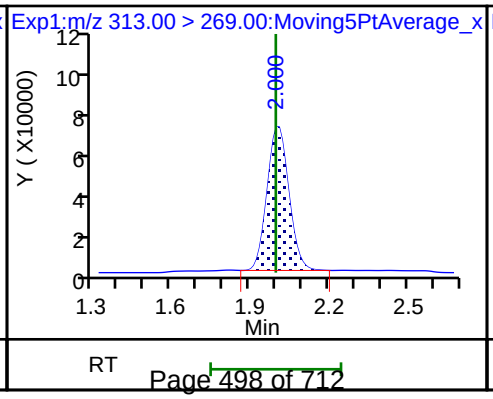
D 60 M2-4:2FTS



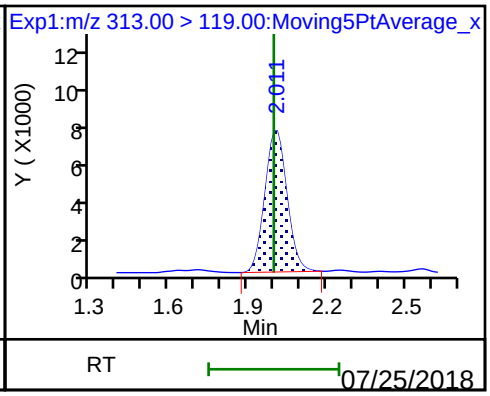
D 7 13C2 PFHxA



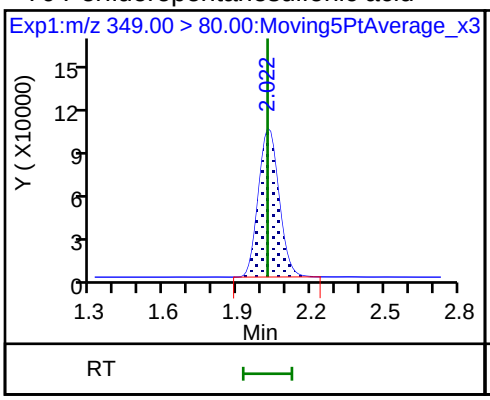
6 Perfluorohexanoic acid



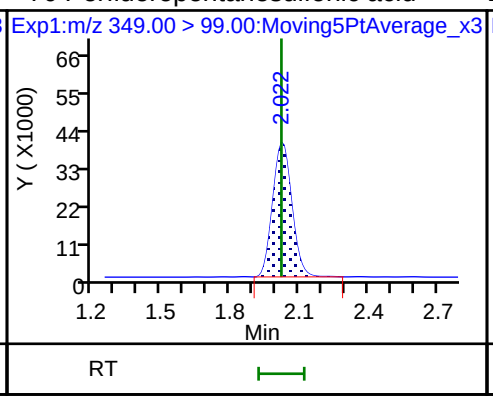
6 Perfluorohexanoic acid



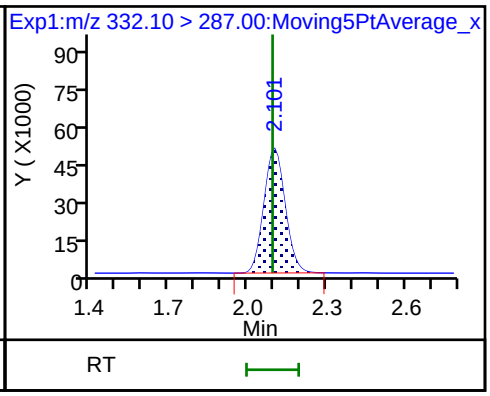
70 Perfluoropentanesulfonic acid



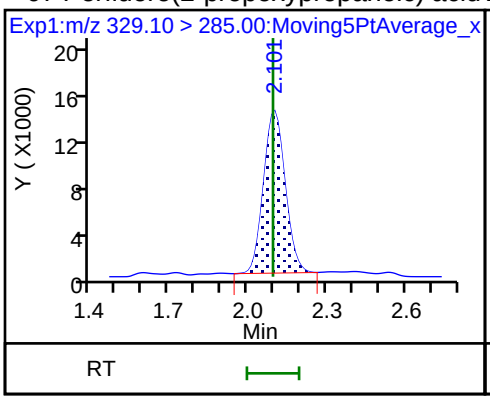
70 Perfluoropentanesulfonic acid



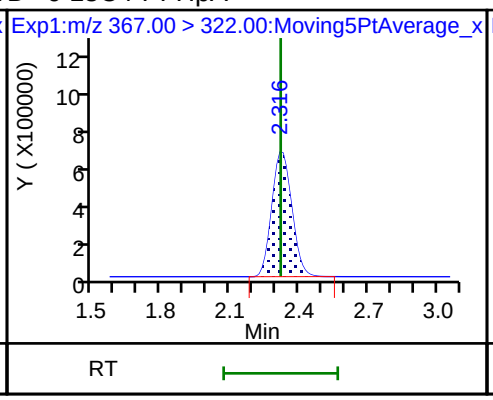
D 64 13C3 HFPO-DA



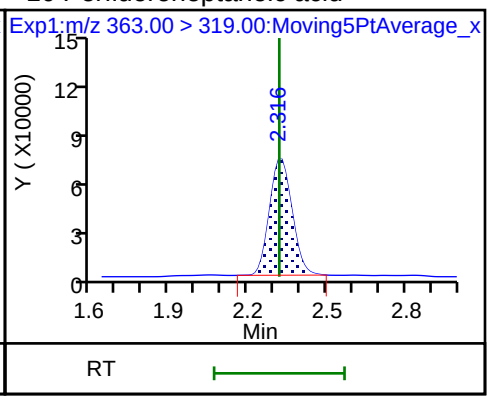
67 Perfluoro(2-propoxypropanoic) acid



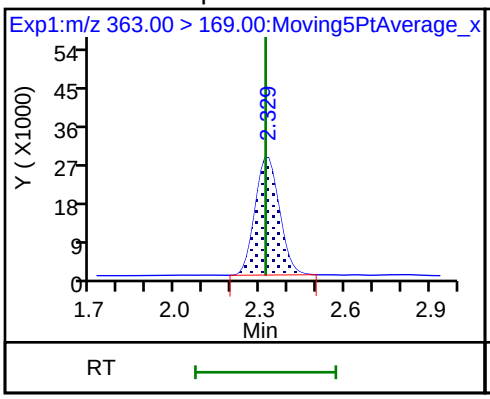
D 9 13C4-PFHpA



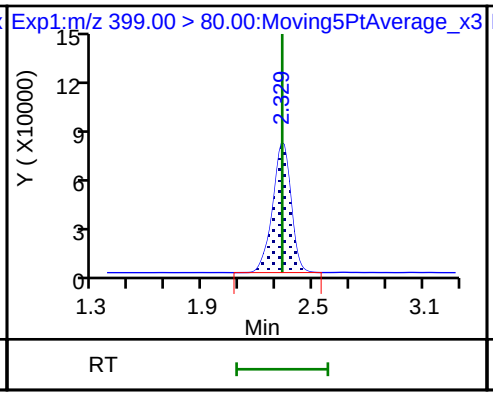
10 Perfluoroheptanoic acid



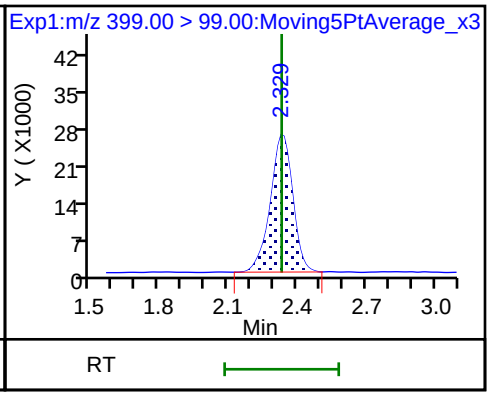
10 Perfluoroheptanoic acid



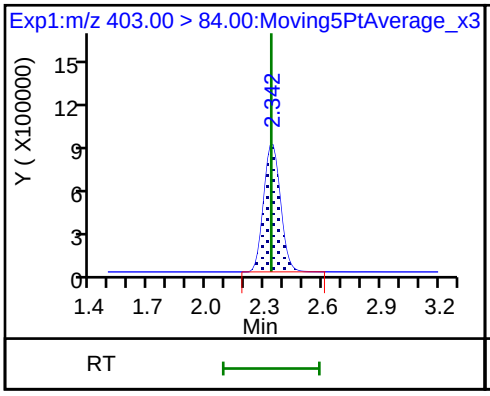
8 Perfluorohexanesulfonic acid



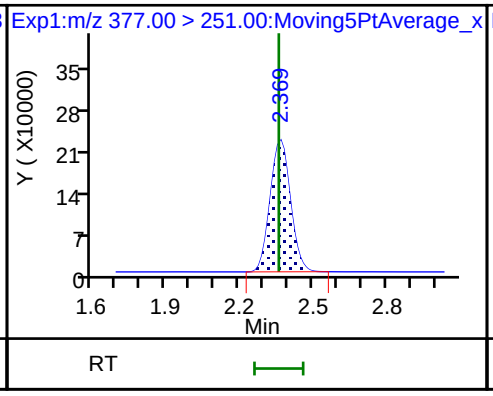
8 Perfluorohexanesulfonic acid



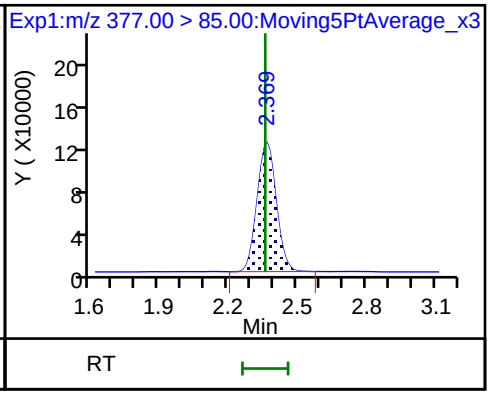
D 11 18O2 PFHxS



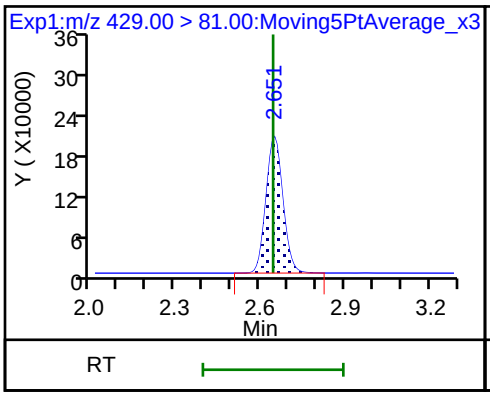
65 Adona



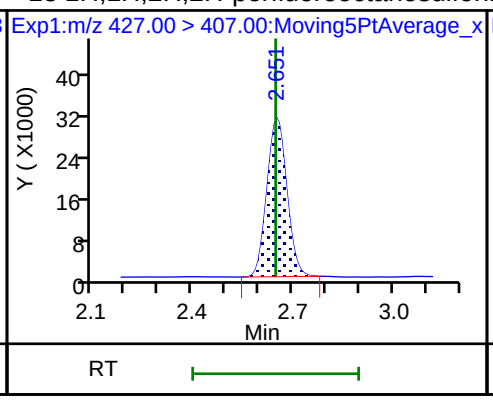
65 Adona



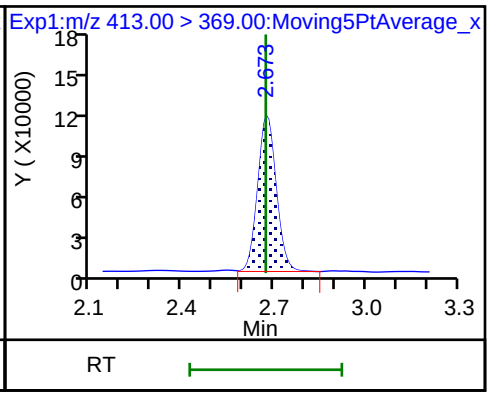
D 12 M2-6:2FTS



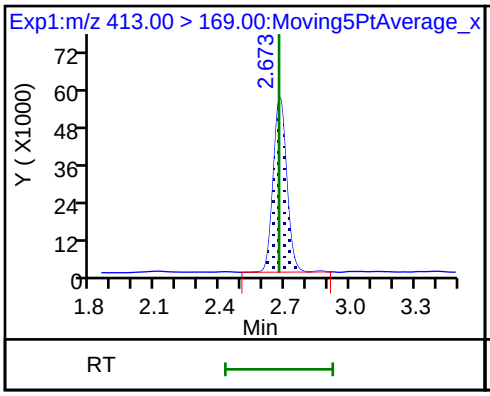
13 1H,1H,2H,2H-perfluorooctanesulfoni



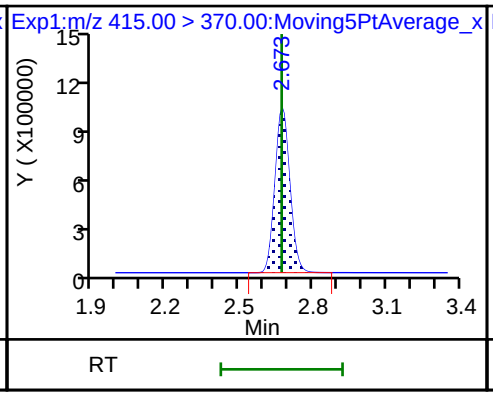
15 Perfluorooctanoic acid



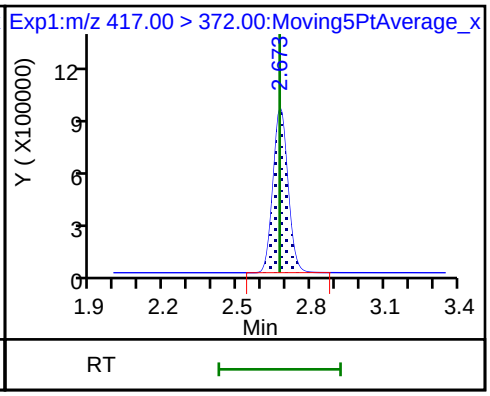
15 Perfluorooctanoic acid



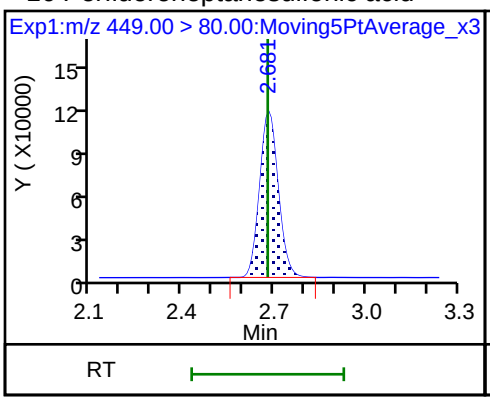
* 62 13C2-PFOA



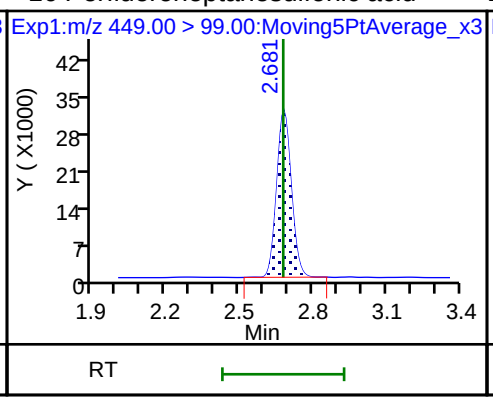
D 14 13C4 PFOA



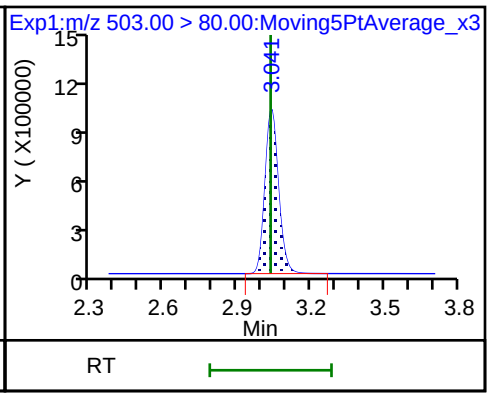
16 Perfluoroheptanesulfonic acid



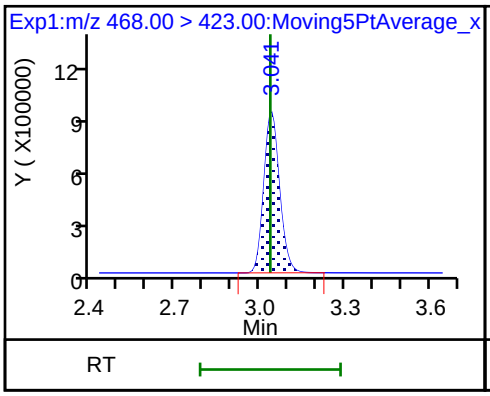
16 Perfluoroheptanesulfonic acid



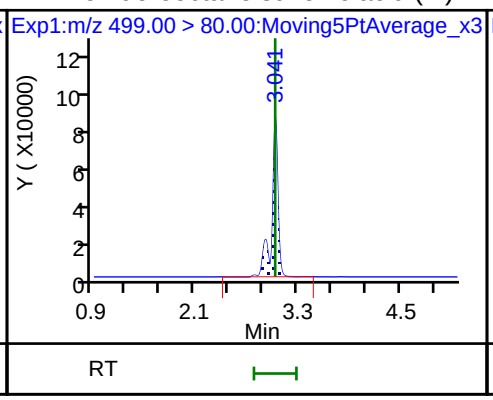
D 18 13C4 PFOS



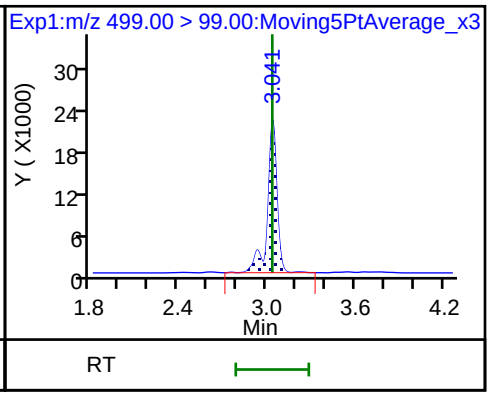
D 19 13C5 PFNA



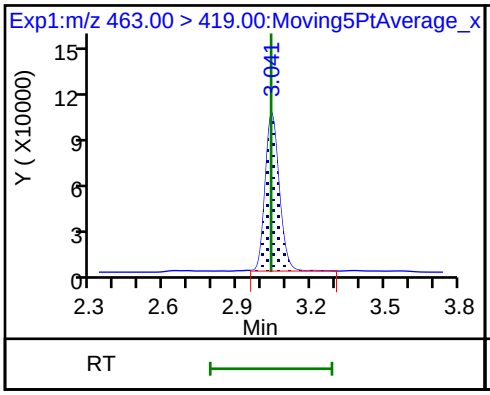
17 Perfluorooctane sulfonic acid (M)



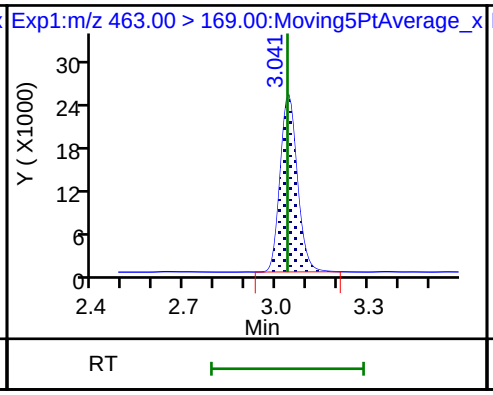
17 Perfluorooctane sulfonic acid



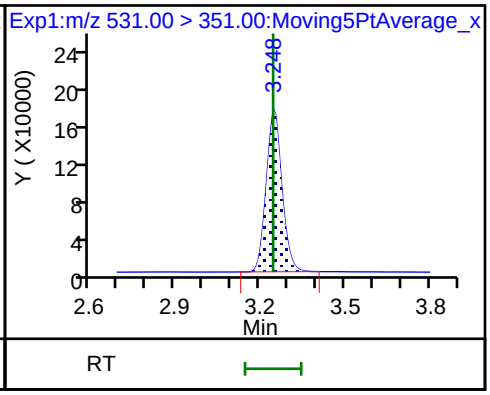
20 Perfluorononanoic acid



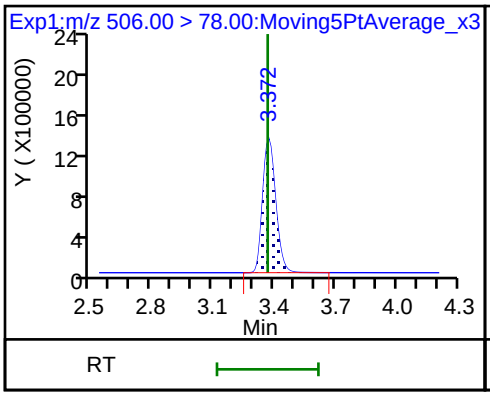
20 Perfluorononanoic acid



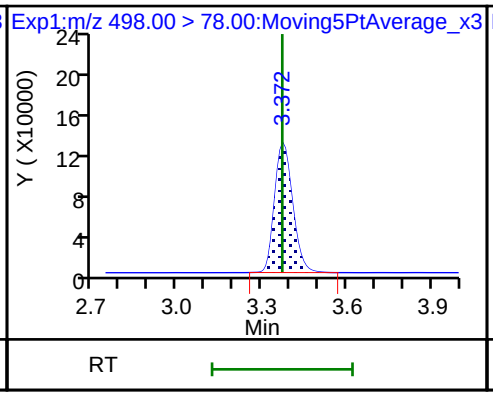
69 9-Chlorohexadecafluoro-3-oxanonane



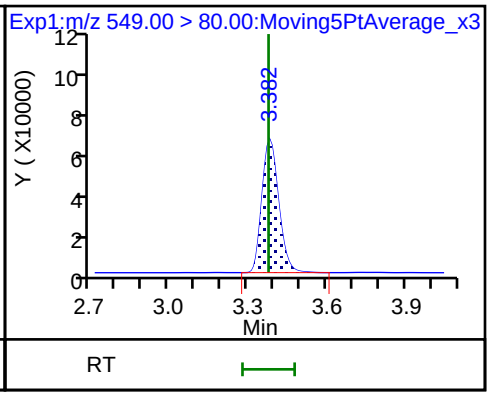
D 21 13C8 FOSA



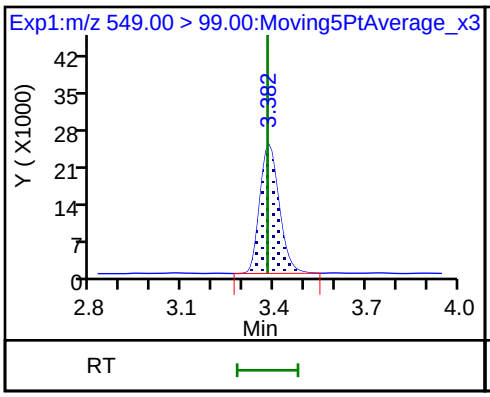
22 Perfluorooctane Sulfonamide



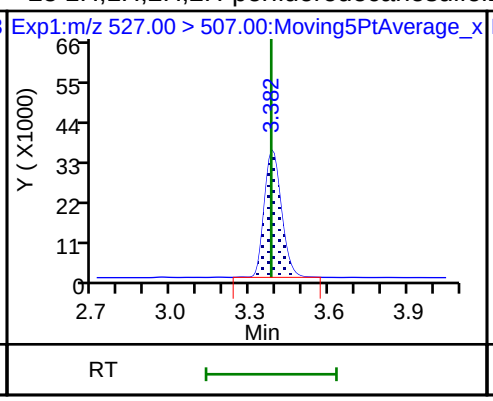
68 Perfluorononanesulfonic acid



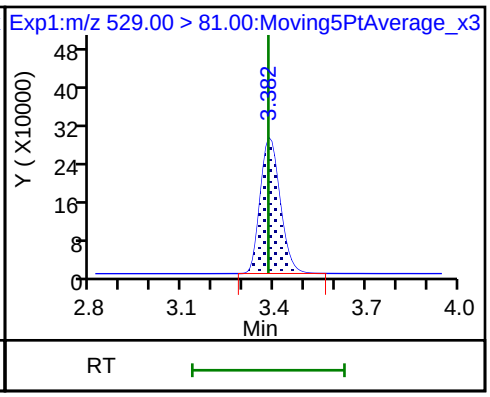
68 Perfluorononanesulfonic acid



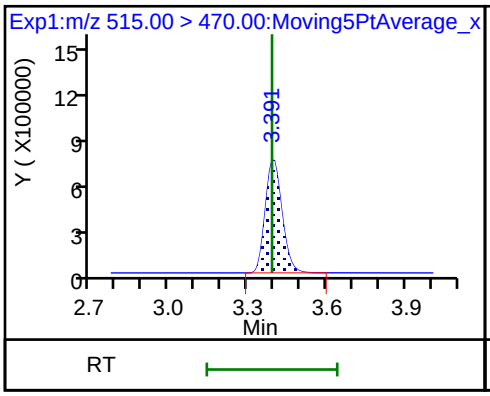
25 1H,1H,2H,2H-perfluorodecanesulfon



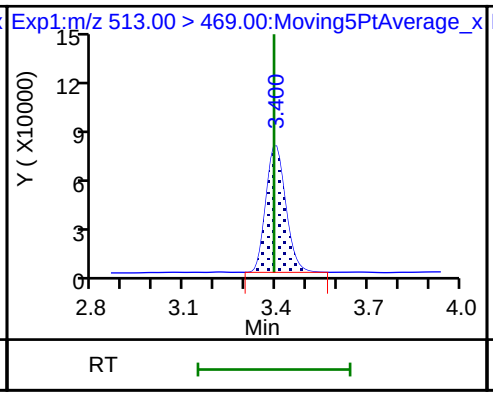
D 26 M2-8:2FTS



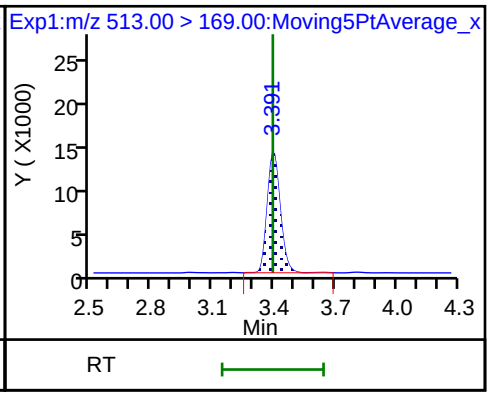
D 23 13C2 PFDA



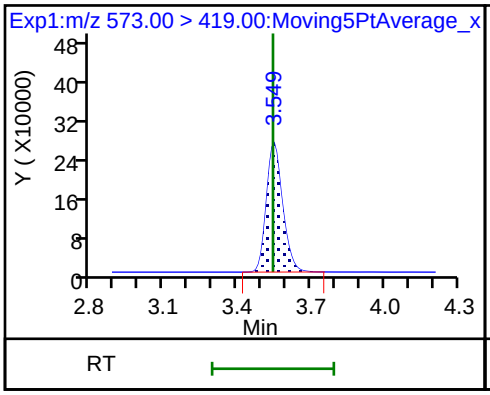
24 Perfluorodecanoic acid



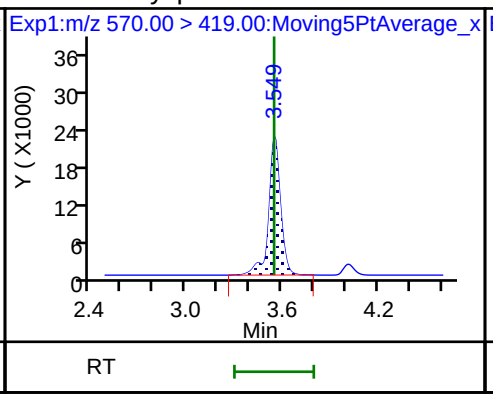
24 Perfluorodecanoic acid



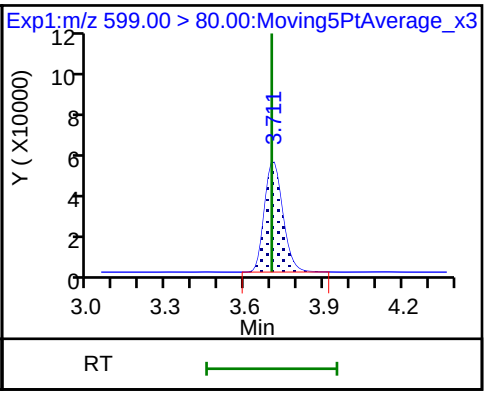
D 27 d3-NMeFOSAA



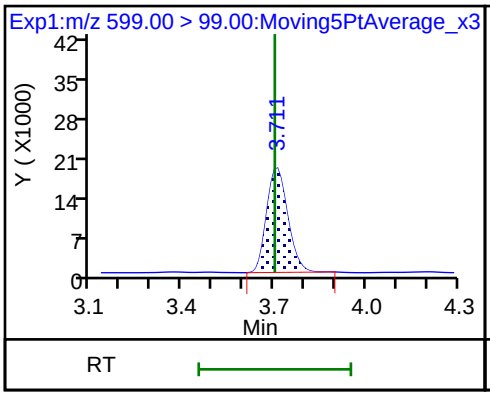
28 N-methyl perfluorooctane sulfonami



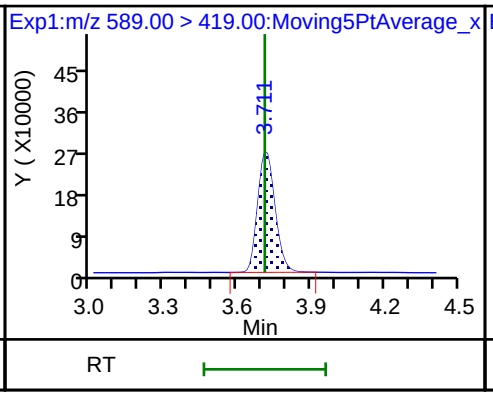
29 Perfluorodecane Sulfonic acid



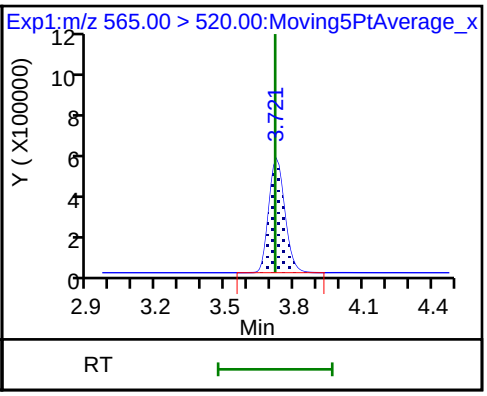
29 Perfluorodecane Sulfonic acid



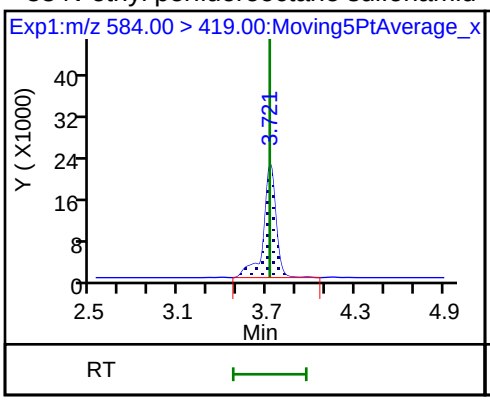
D 32 d5-NEtFOSAA



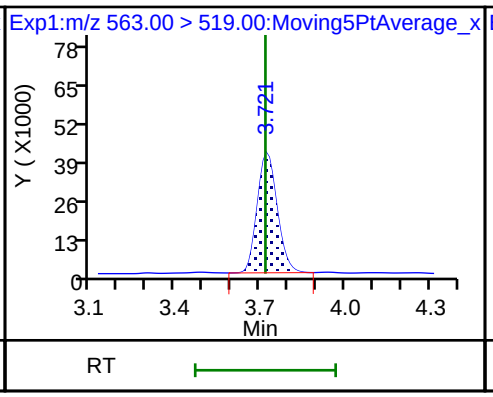
D 30 13C2 PFUnA



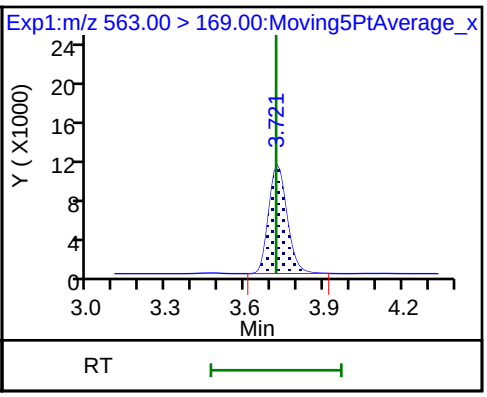
33 N-ethyl perfluorooctane sulfonamid



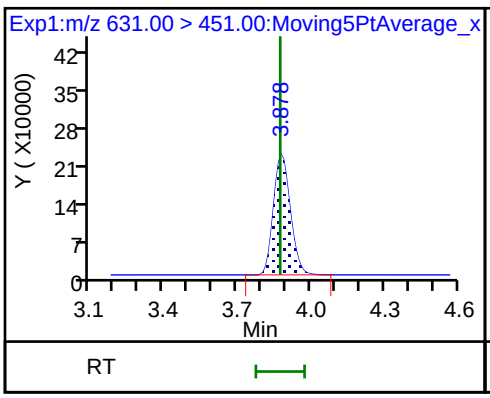
31 Perfluoroundecanoic acid



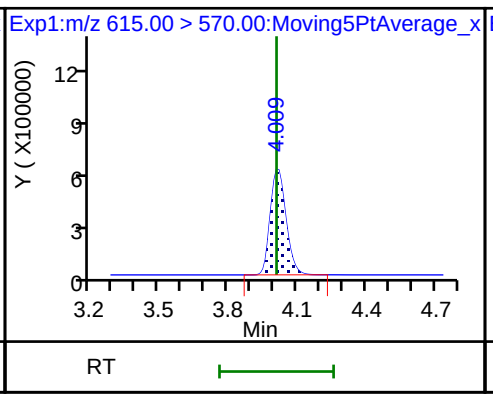
31 Perfluoroundecanoic acid



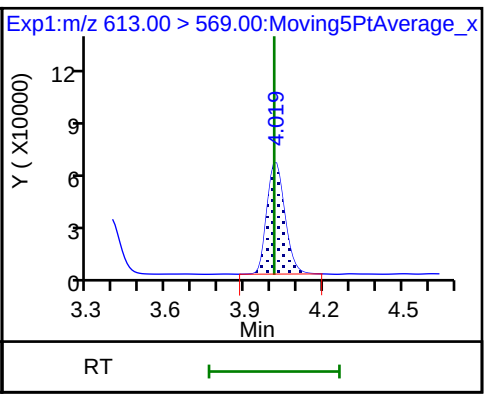
66 11-Chloroeicosafluoro-3-oxaundecan



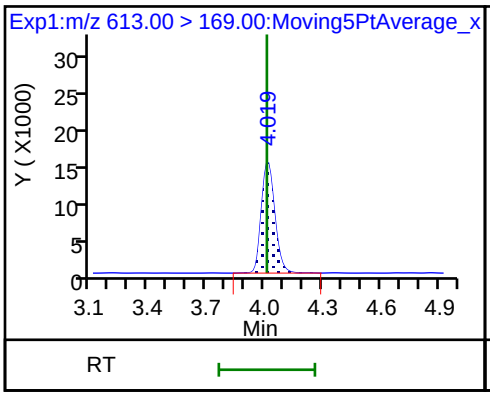
D 36 13C2 PFDoA



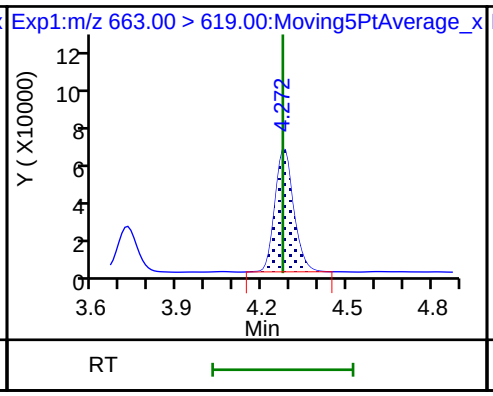
37 Perfluorododecanoic acid



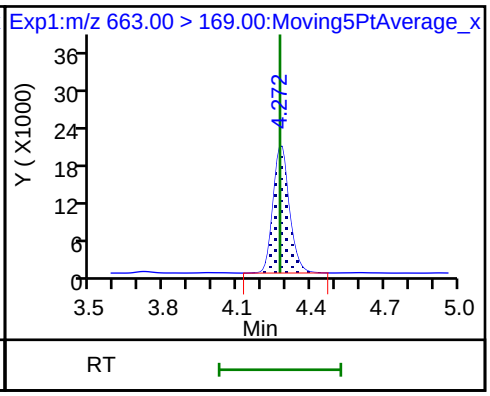
37 Perfluorododecanoic acid



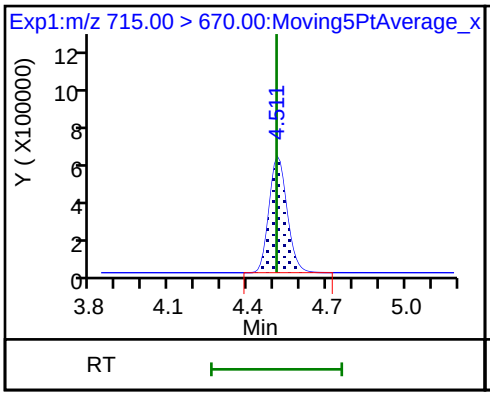
41 Perfluorotridecanoic acid



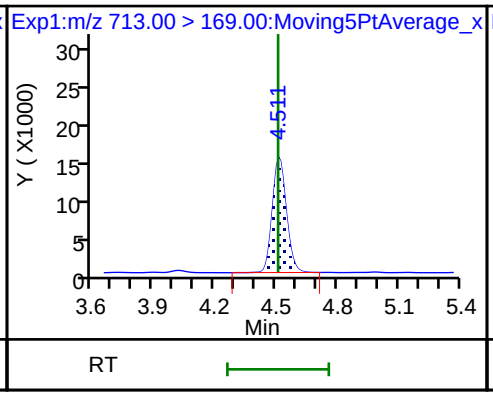
41 Perfluorotridecanoic acid



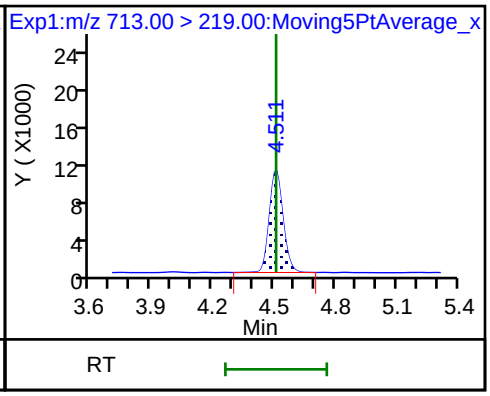
D 43 13C2-PFTeDA



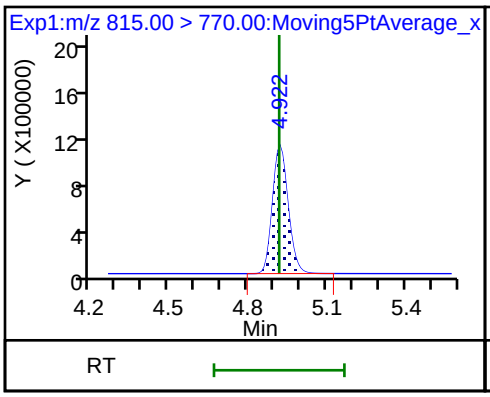
42 Perfluorotetradecanoic acid



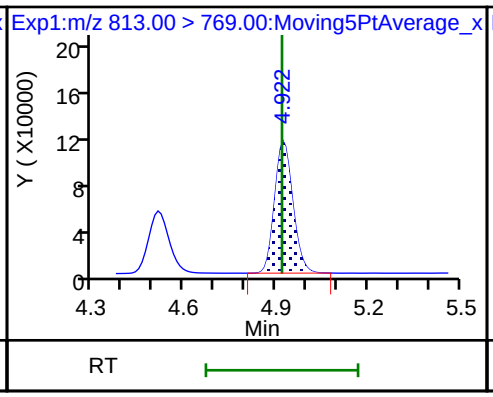
42 Perfluorotetradecanoic acid



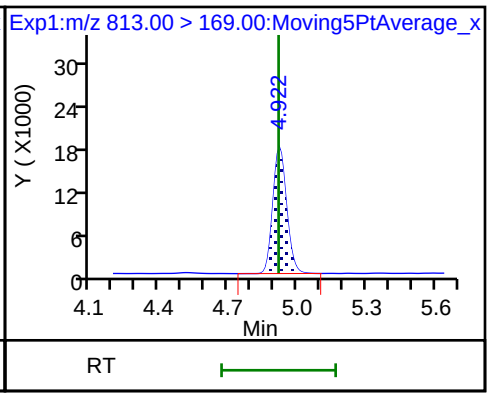
D 44 13C2-PFHxDA



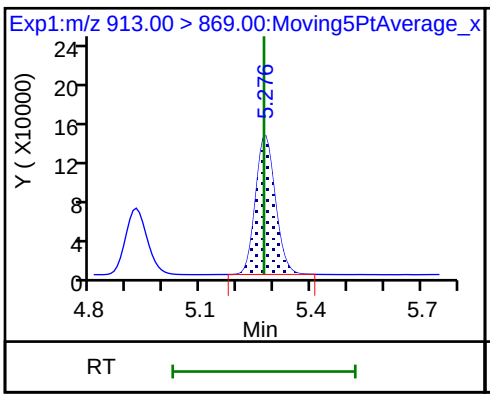
45 Perfluorohexadecanoic acid



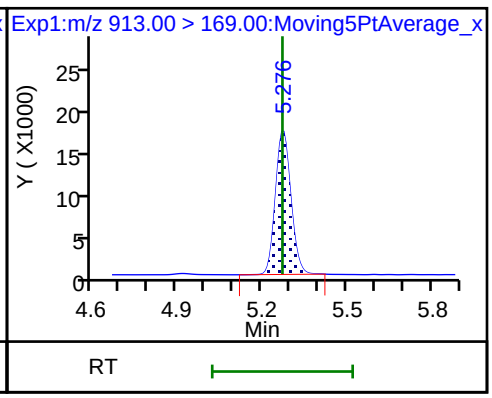
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

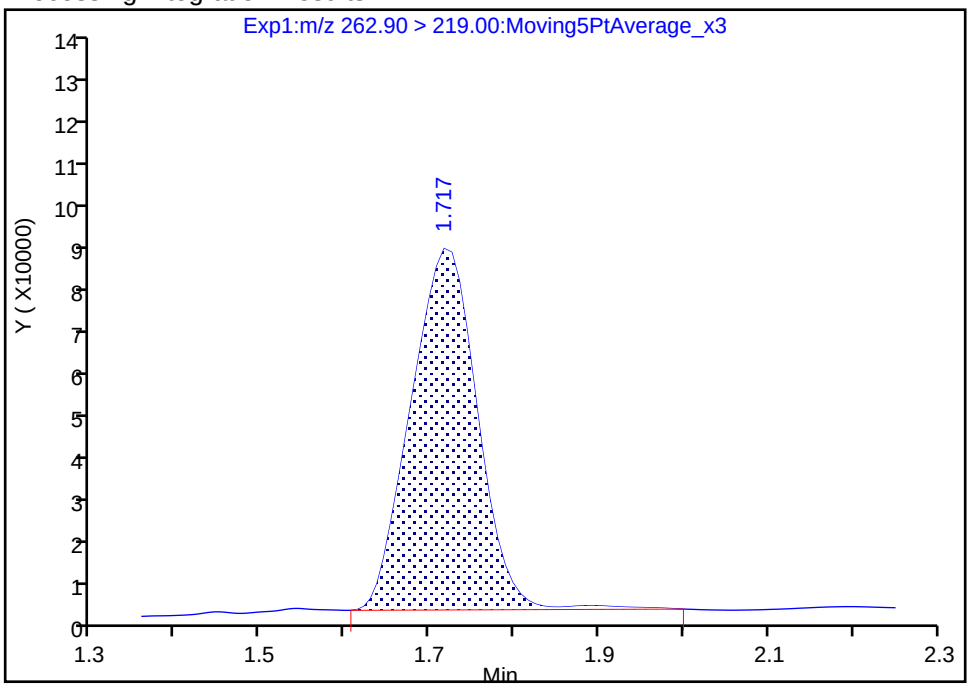
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

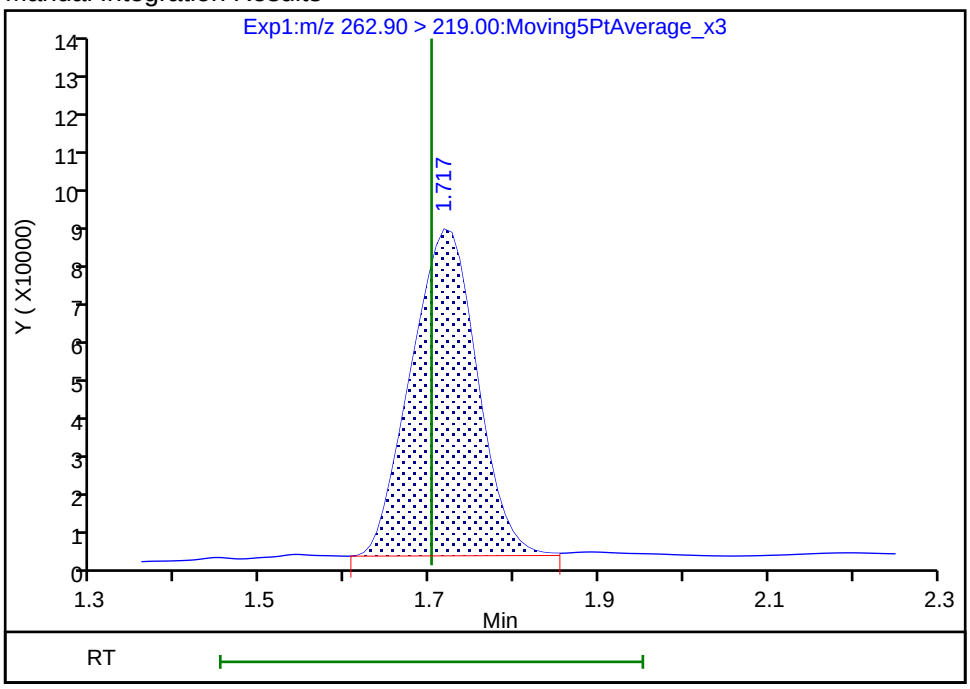
Processing Integration Results

RT: 1.72
Area: 461795
Amount: 0.245377
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 457354
Amount: 0.243345
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:15:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

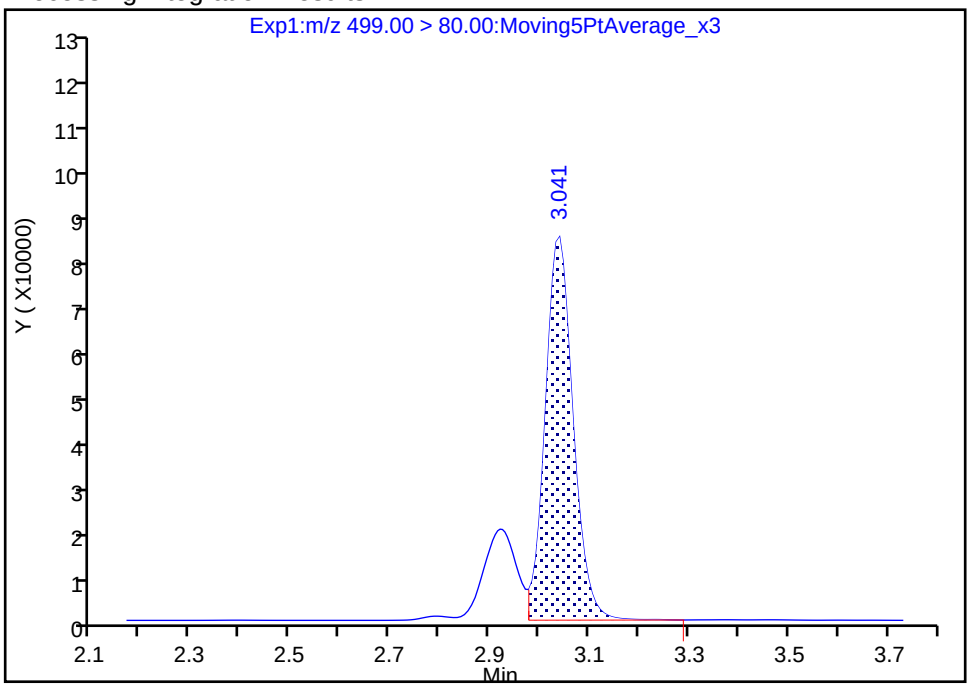
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

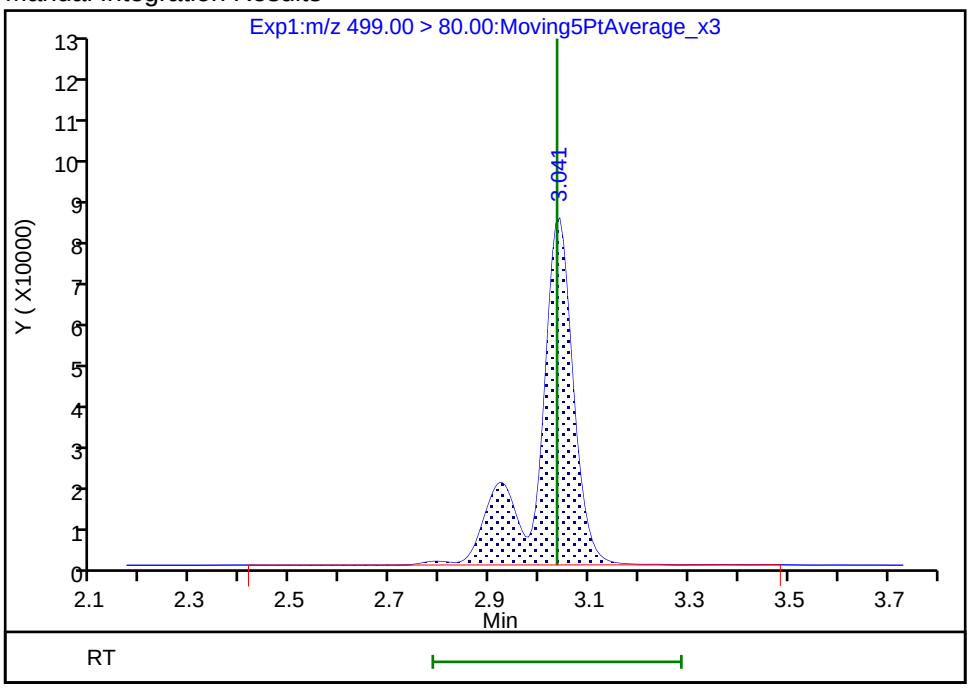
Processing Integration Results

RT: 3.04
Area: 311512
Amount: 0.188367
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 401226
Amount: 0.227144
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:15:30
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 11-Jul-2018 15:15:12 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:36 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:24:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.430	1.431	-0.001	0.536	5641372	2.39		95.8	40771	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	2185459	0.9827		98.3	851	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.711	1.702	0.009	1.000	1776986	0.9425		94.3	671	
D 3 13C5-PFPeA										
267.90 > 223.00	1.711	1.702	0.009	0.641	3885306	2.37		94.9	40286	
D 47 13C3-PFBS										
301.90 > 83.00	1.747	1.748	-0.001	0.655	93442	2.27		97.7	588	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.751	0.005	1.005	2692471	0.8758		99.1	30936	
298.90 > 99.00	1.756	1.751	0.005	1.005	1106046		2.43(1.25-3.74)	99.1	13599	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.959	1.962	-0.003	1.122	483517	0.9255		99.1	21926	
D 60 M2-4:2FTS										
329.00 > 81.00	1.959	1.962	-0.003	0.735	514423	2.33		99.6	6719	
D 7 13C2 PFHxA										
315.00 > 270.00	1.992	1.996	-0.004	0.747	4419532	2.50		100	65585	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.998	0.005	1.006	1767805	0.9715		97.2	3644	
313.00 > 119.00	1.992	1.998	-0.006	1.000	160752		11.00(5.03-15.10)	97.2	3583	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.014	2.022	-0.008	1.153	2723317	0.9710		104	43344	
349.00 > 99.00	2.014	2.022	-0.008	1.153	946475		2.88(1.36-4.07)	104	15143	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.785	319484	2.54		102	9570	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	1.000	316075	0.9319		93.2	2022	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.870	4071620	2.50		100	45788	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	1789760	0.9501		95.0	3577	
363.00 > 169.00	2.319	2.319	0.0	1.000	672034		2.66(1.13-3.40)	95.0	5658	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	2243830	0.8671		95.3	14079	
399.00 > 99.00	2.332	2.332	0.0	1.000	719470		3.12(1.50-4.49)	95.3	5193	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.874	5331177	2.31		97.7	64328	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.778	5276511	1.02		109	43654	
377.00 > 85.00	2.358	2.360	-0.002	0.778	3115019		1.69(0.84-2.53)	109	15440	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.991	819911	2.35		98.9	15077	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.648	-0.004	1.000	508387	0.9413		99.3	9201	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.672	-0.005	1.000	1889955	0.9213		92.0	1333	
413.00 > 169.00	2.667	2.672	-0.005	1.000	984662		1.92(0.84-2.52)	92.0	4771	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.672	-0.005		4343809	2.50			41821	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.672	-0.005	1.000	4164105	2.51		100	36459	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.882	2108438	1.00		105	20636	
449.00 > 99.00	2.675	2.678	-0.003	0.882	541631		3.89(1.94-5.82)	105	8815	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.034	-0.002	1.137	3832872	2.26		94.7	26005	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.035	-0.003	1.137	3677166	2.48		99.1	48144	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.035	-0.003	1.000	1695511	0.9330		101	22959	
499.00 > 99.00	3.032	3.035	-0.003	1.000	381272		4.45(2.31-6.93)	101	5451	
20 Perfluorononanoic acid										
463.00 > 419.00	3.032	3.036	-0.004	1.000	1601728	0.9816		98.2	3653	
463.00 > 169.00	3.032	3.036	-0.004	1.000	393341		4.07(1.90-5.69)	98.2	12806	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.240	3.245	-0.005	1.069	2898434	0.9845		106	26398	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.367	-0.007	1.260	6072674	2.49		99.5	32206	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.371	-0.001	1.003	2466657	1.03		103	23348	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.377	-0.007	1.111	1198001	0.9637		100	24931	
549.00 > 99.00	3.370	3.377	-0.007	1.111	448683		2.67(1.33-3.97)	100	5683	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.380	-0.001	1.000	616956	0.9227		96.3	9759	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.380	-0.001	1.267	1241456	2.43		102	20973	
D 23 13C2 PFDA										
515.00 > 470.00	3.388	3.391	-0.003	1.270	3225992	2.47		99.0	36283	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.388	3.392	-0.004	1.000	1372481	1.01		101	7780	
513.00 > 169.00	3.388	3.392	-0.004	1.000	234993		5.84(2.36-7.09)	101	7483	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.538	3.544	-0.006	1.326	1320092	2.47		98.8	18113	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.547	3.548	-0.001	1.003	521077	1.00		100	4163	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.701	-0.004	1.219	1104012	1.03		106	33210	
599.00 > 99.00	3.697	3.701	-0.004	1.219	381155		2.90(1.39-4.16)	106	11450	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.710	-0.002	1.390	1412562	2.58		103	3578	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.716	-0.008	1.390	2739039	2.52		101	37242	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.718	-0.010	1.000	470221	0.9414		94.1	11298	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.718	-0.010	1.000	824114	0.9179		91.8	4935	
563.00 > 169.00	3.708	3.718	-0.010	1.000	230560		3.57(2.12-6.36)	91.8	9451	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.865	3.874	-0.009	1.275	4328485	1.02		108	56110	
D 36 13C2 PFDoA										
615.00 > 570.00	4.009	4.009	0.0	1.503	2741167	2.43		97.1	17529	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.009	4.011	-0.002	1.000	1222974	1.02		102	655	
613.00 > 169.00	4.009	4.011	-0.002	1.000	295938		4.13(2.13-6.40)	102	6196	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.272	4.273	-0.001	1.066	1185888	1.01		101	495	
663.00 > 169.00	4.272	4.273	-0.001	1.066	360583		3.29(1.25-3.76)	101	5237	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.688	2848985	2.43		97.3	14593	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	292793	0.9875		98.8	5119	
713.00 > 219.00	4.501	4.508	-0.007	1.000	204434		1.43(0.71-2.13)	98.8	4812	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.913	4.918	-0.005	1.842	4668246	2.50		100	12029	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.913	4.918	-0.005	1.000	1859123	1.03		103	407	
813.00 > 169.00	4.913	4.918	-0.005	1.000	288685		6.44(2.86-8.58)	103	2770	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.269	5.271	-0.002	1.072	2109156	0.9883		98.8	376	
913.00 > 169.00	5.262	5.271	-0.009	1.071	260420		8.10(3.83-11.48)	98.8	3637	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d

Injection Date: 11-Jul-2018 15:15:12 Instrument ID: A8_N

Lims ID: IC L4 Full

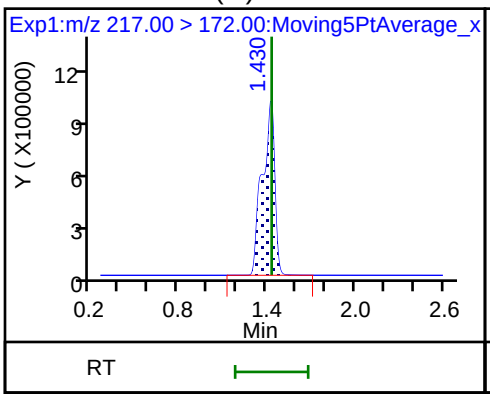
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

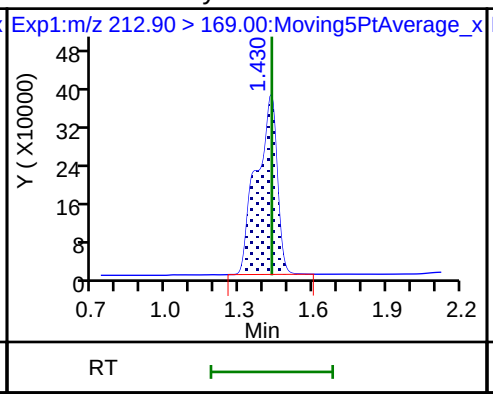
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

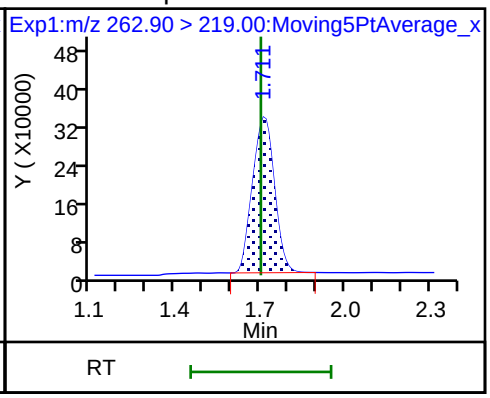
D 1 13C4 PFBA (M)



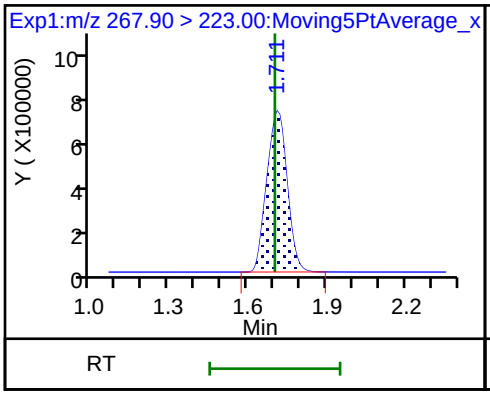
2 Perfluorobutyric acid



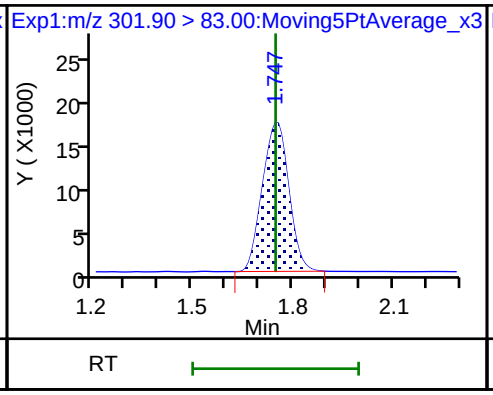
4 Perfluoropentanoic acid



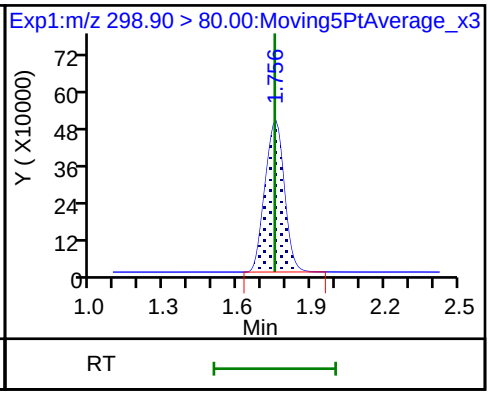
D 3 13C5-PFPeA



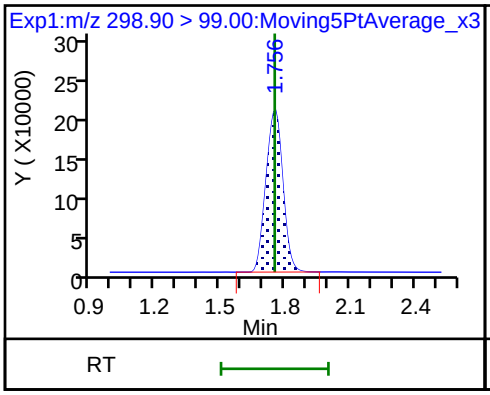
D 47 13C3-PFBS



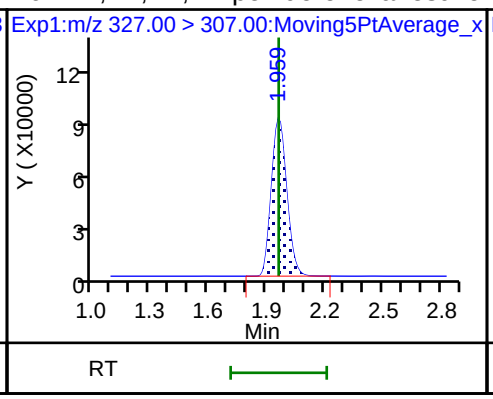
5 Perfluorobutanesulfonic acid



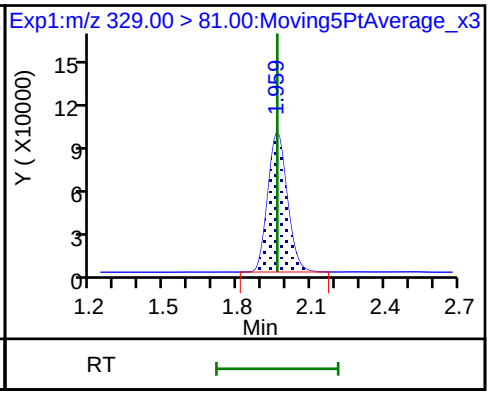
5 Perfluorobutanesulfonic acid



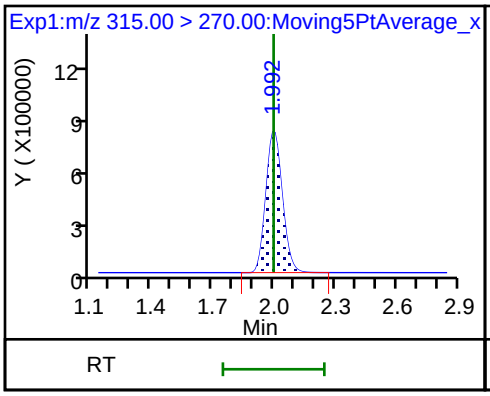
61 1H,1H,2H,2H-perfluorohexanesulfon



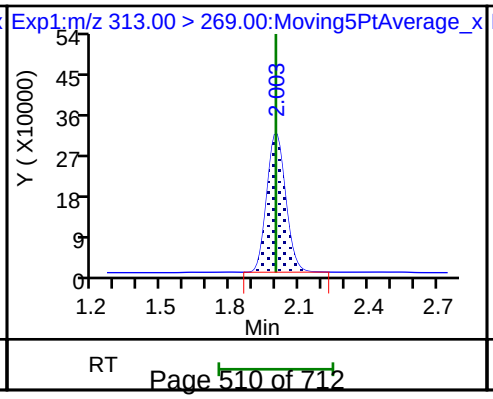
D 60 M2-4:2FTS



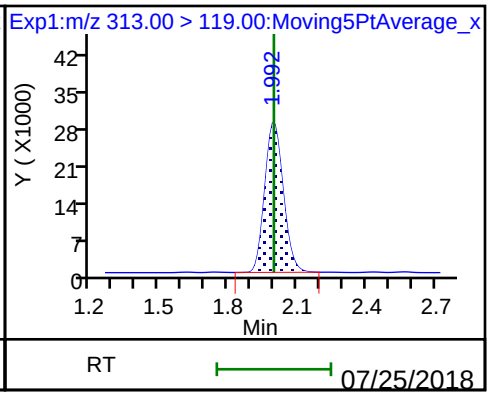
D 7 13C2 PFHxA



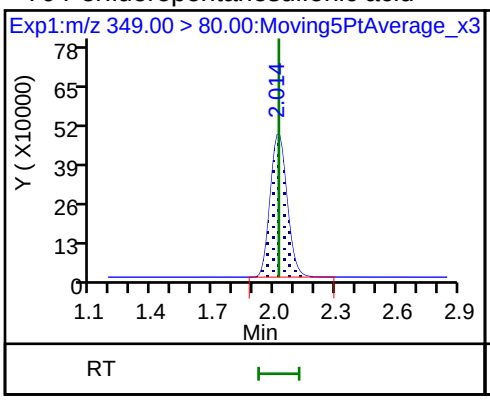
6 Perfluorohexanoic acid



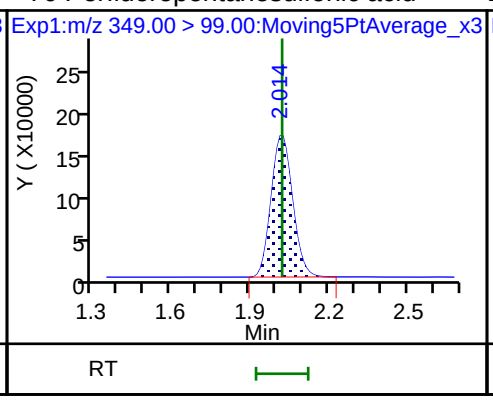
6 Perfluorohexanoic acid



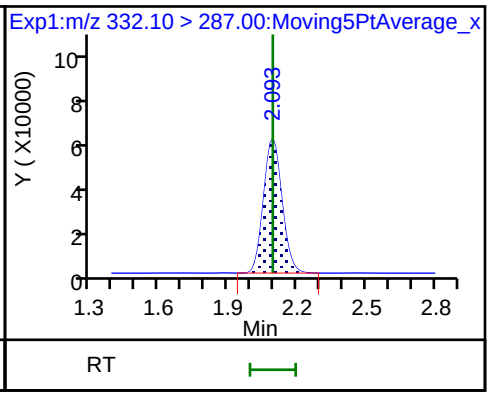
70 Perfluoropentanesulfonic acid



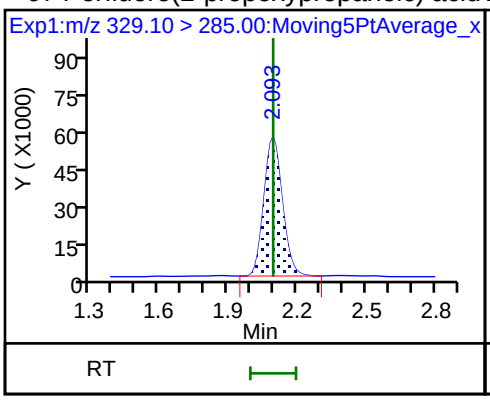
70 Perfluoropentanesulfonic acid



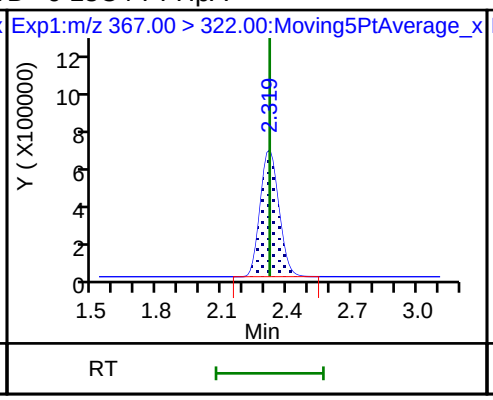
D 64 13C3 HFPO-DA



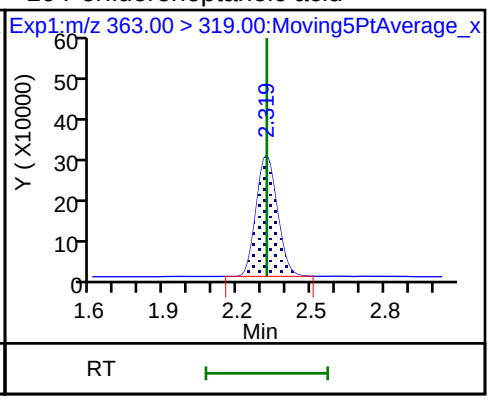
67 Perfluoro(2-propoxypropanoic) acid



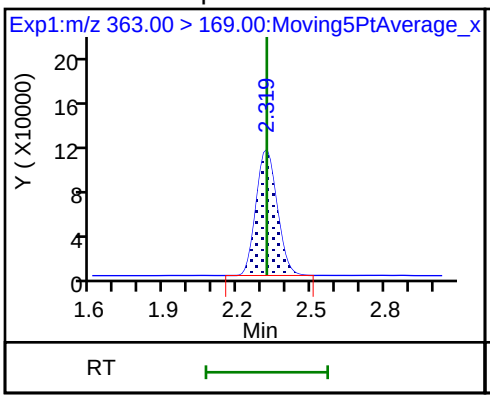
D 9 13C4-PFHpA



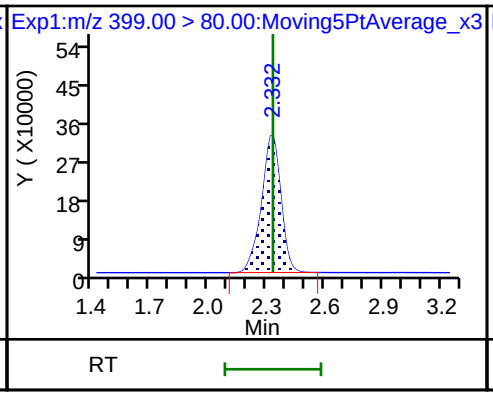
10 Perfluoroheptanoic acid



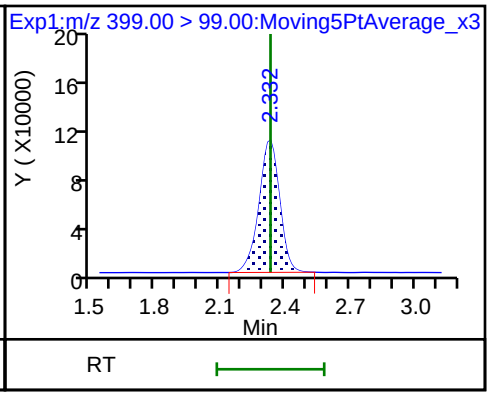
10 Perfluoroheptanoic acid



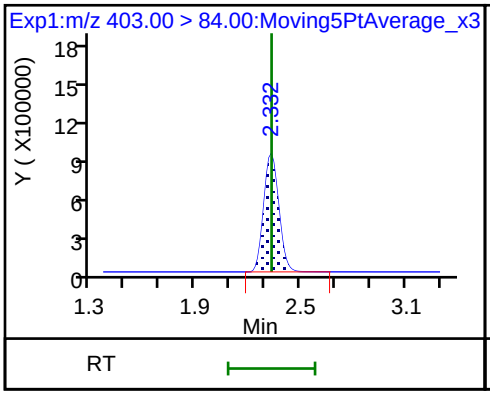
8 Perfluorohexanesulfonic acid



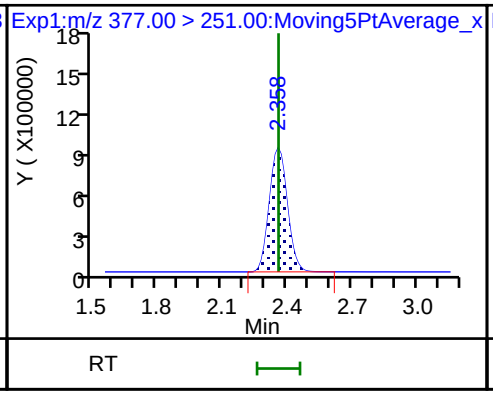
8 Perfluorohexanesulfonic acid



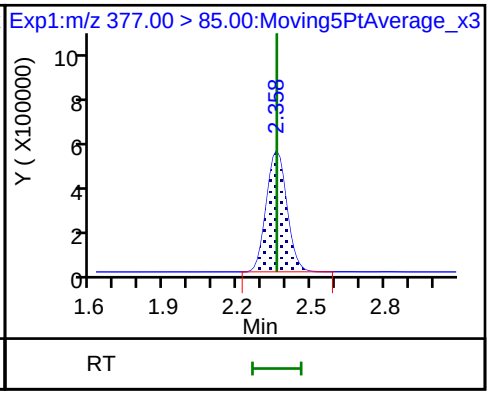
D 11 18O2 PFHxS



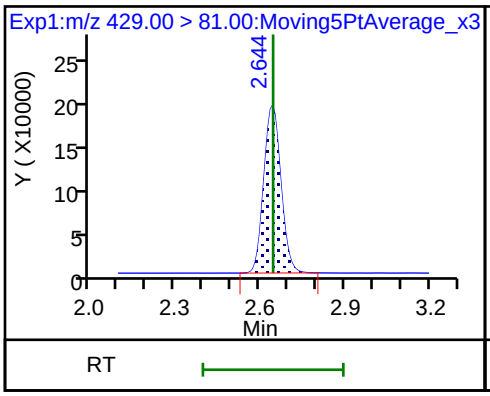
65 Adona



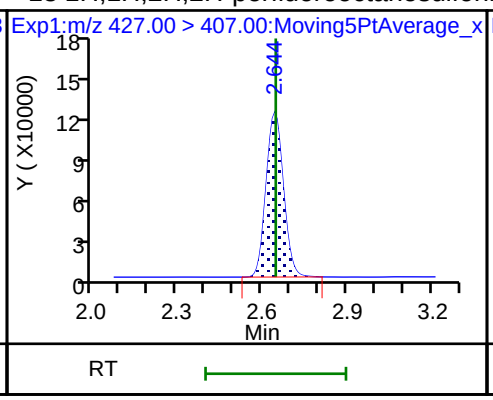
65 Adona



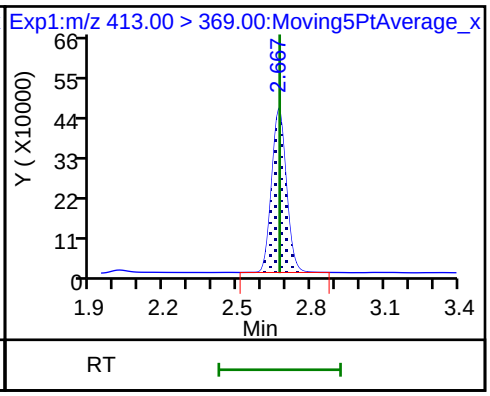
D 12 M2-6:2FTS



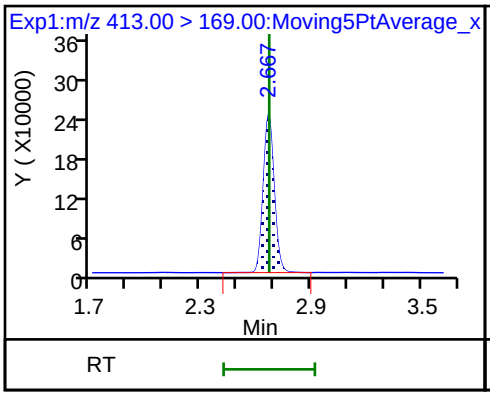
13 1H,1H,2H,2H-perfluorooctanesulfoni



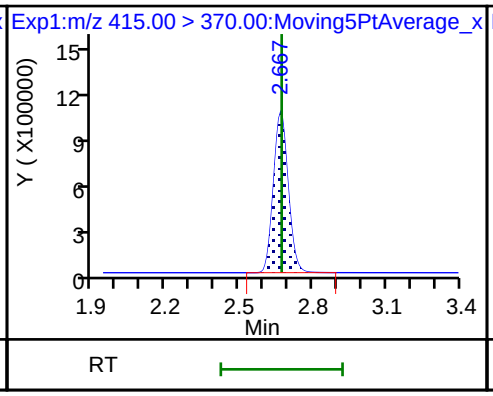
15 Perfluorooctanoic acid



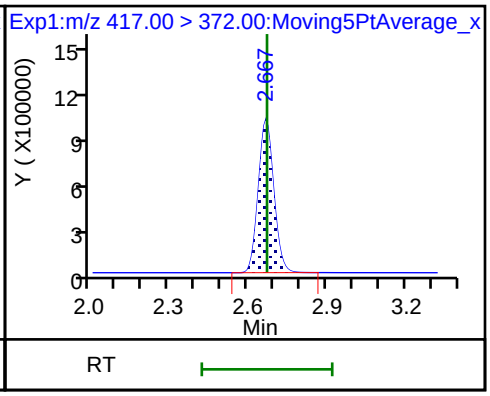
15 Perfluorooctanoic acid



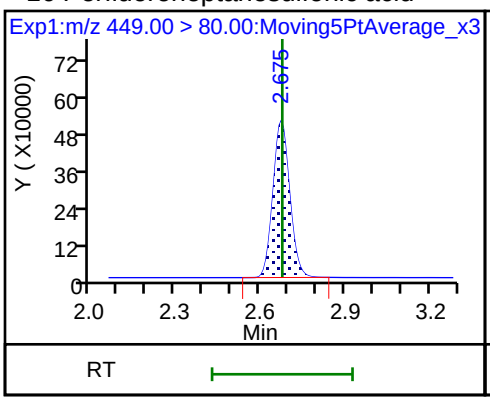
* 62 13C2-PFOA



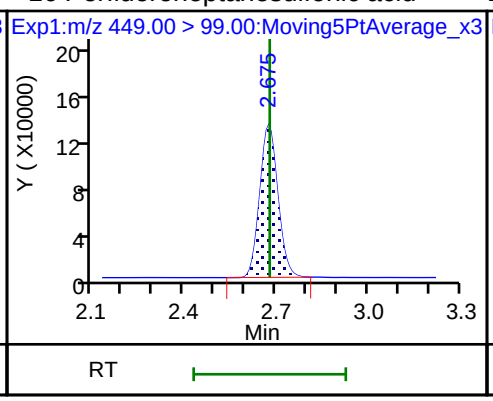
D 14 13C4 PFOA



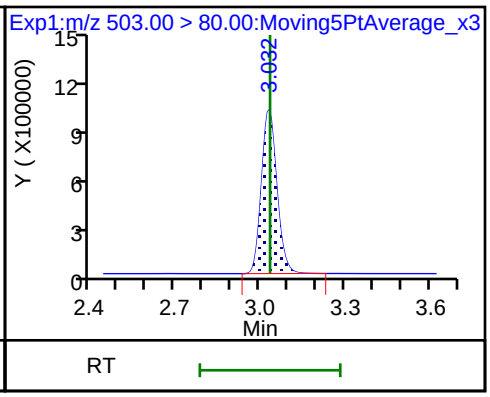
16 Perfluoroheptanesulfonic acid



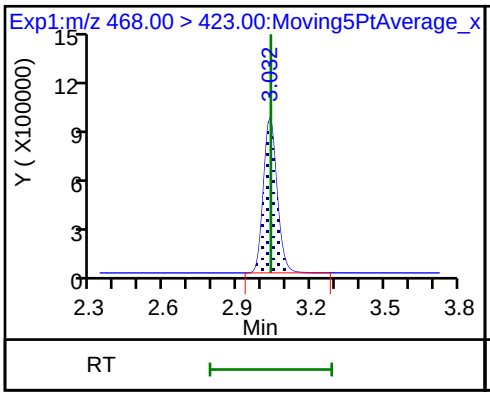
16 Perfluoroheptanesulfonic acid



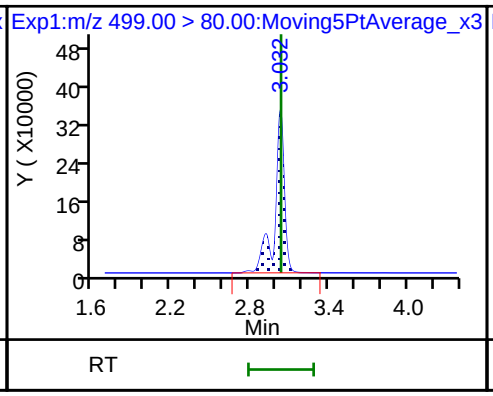
D 18 13C4 PFOS



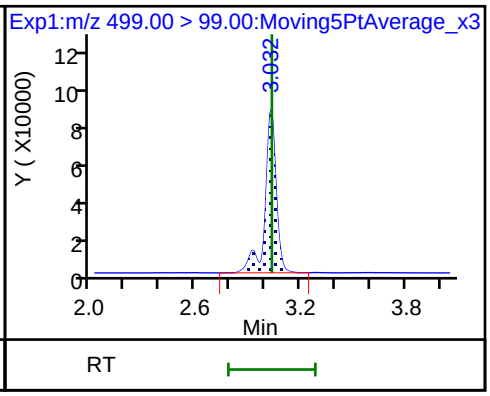
D 19 13C5 PFNA



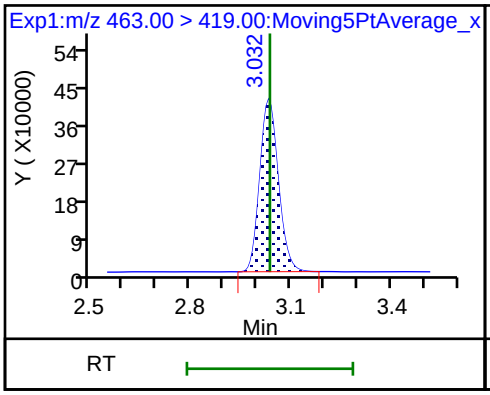
17 Perfluorooctane sulfonic acid



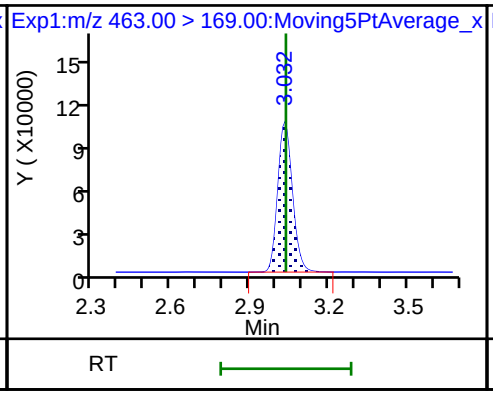
17 Perfluorooctane sulfonic acid



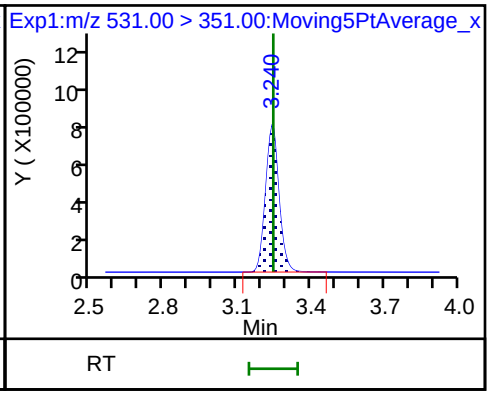
20 Perfluorononanoic acid



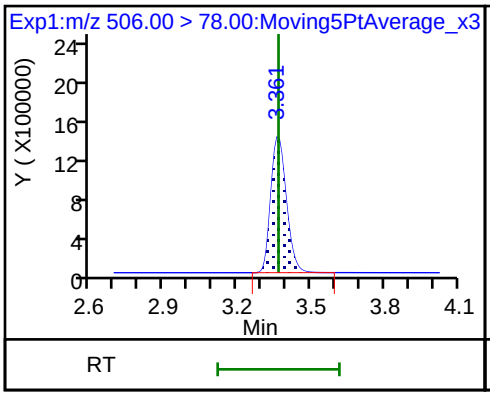
20 Perfluorononanoic acid



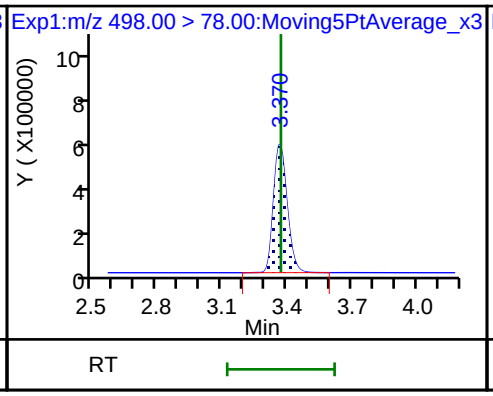
69 9-Chlorohexadecafluoro-3-oxanonane



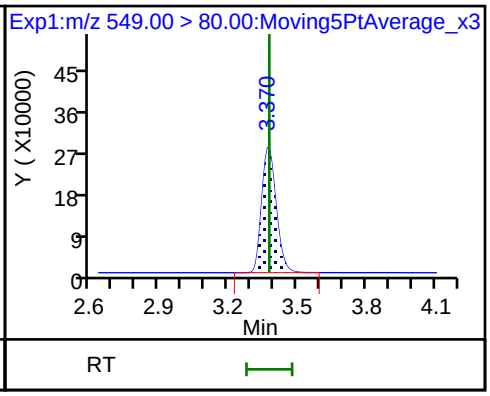
D 21 13C8 FOSA



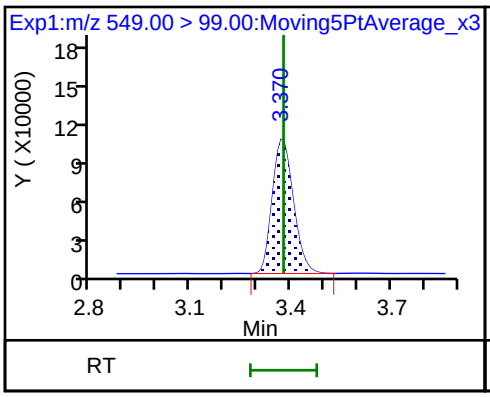
22 Perfluorooctane Sulfonamide



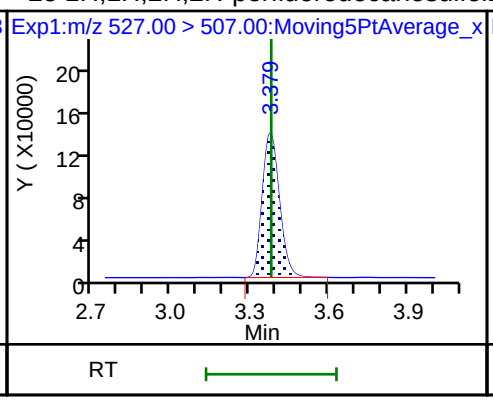
68 Perfluorononanesulfonic acid



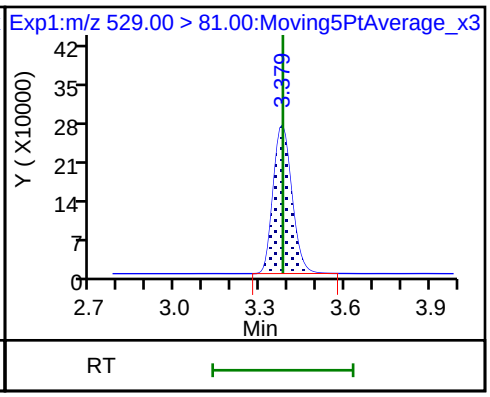
68 Perfluorononanesulfonic acid



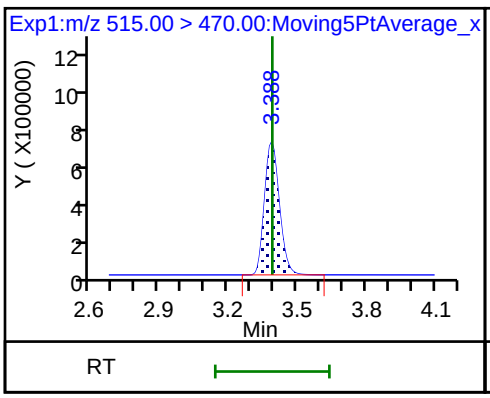
25 1H,1H,2H,2H-perfluorodecanesulfon



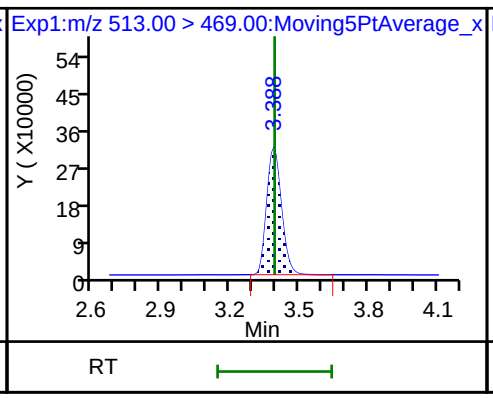
D 26 M2-8:2FTS



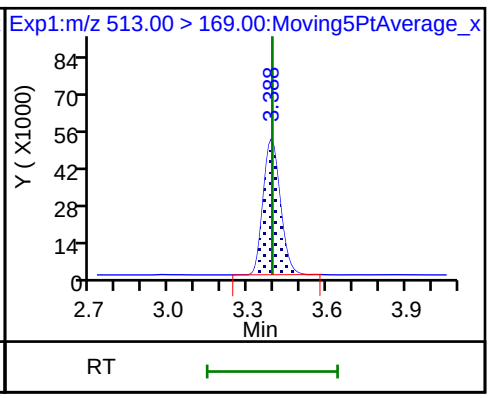
D 23 13C2 PFDA



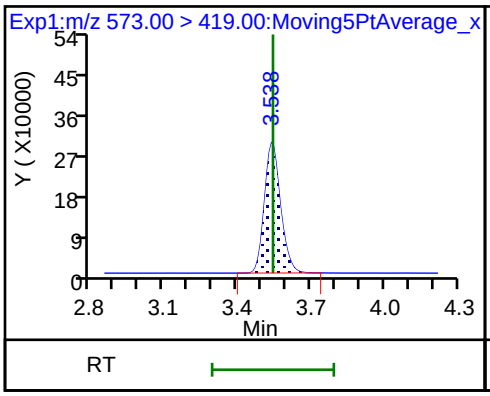
24 Perfluorodecanoic acid



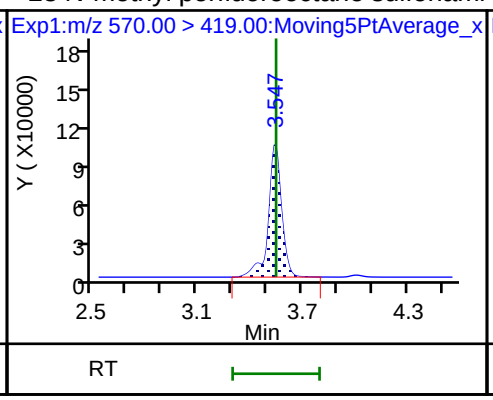
24 Perfluorodecanoic acid



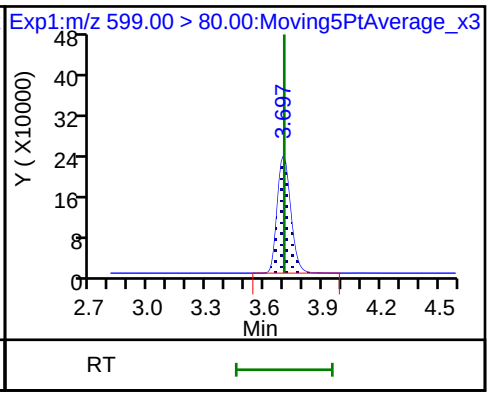
D 27 d3-NMeFOSAA



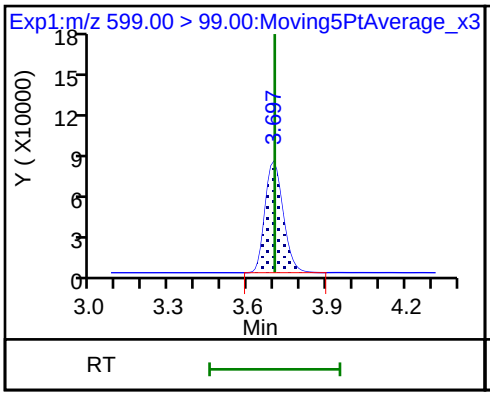
28 N-methyl perfluorooctane sulfonami



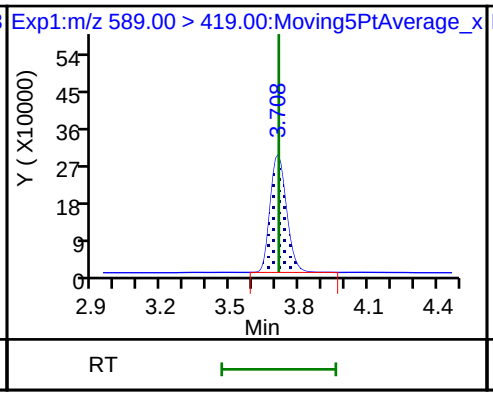
29 Perfluorodecane Sulfonic acid



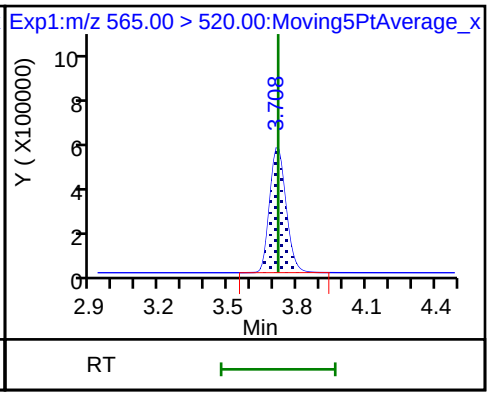
29 Perfluorodecane Sulfonic acid



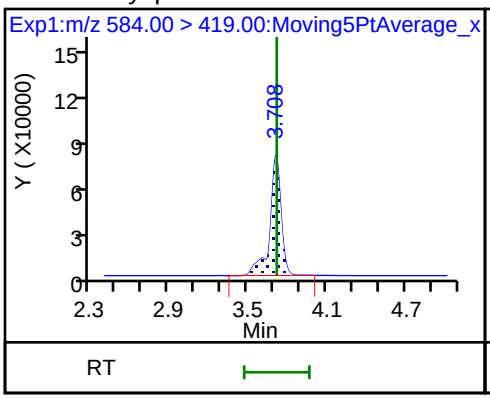
D 32 d5-NEtFOSAA



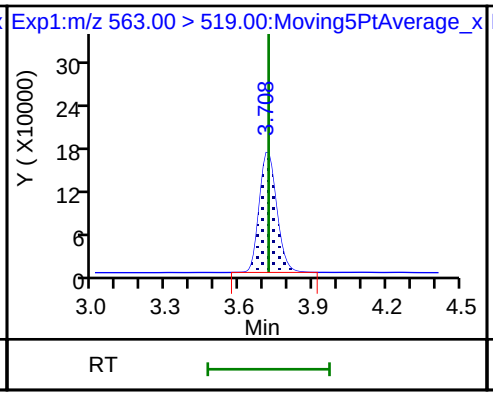
D 30 13C2 PFUnA



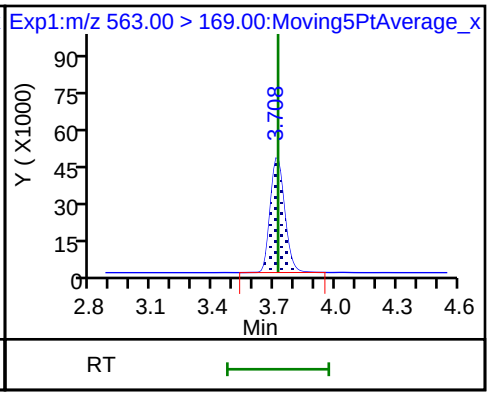
33 N-ethyl perfluorooctane sulfonamid



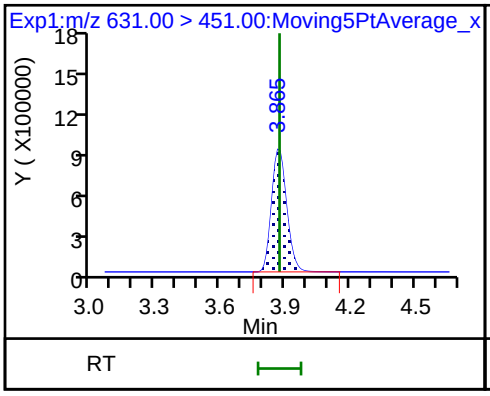
31 Perfluoroundecanoic acid



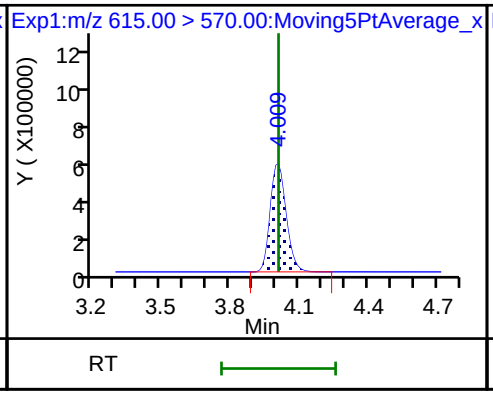
31 Perfluoroundecanoic acid



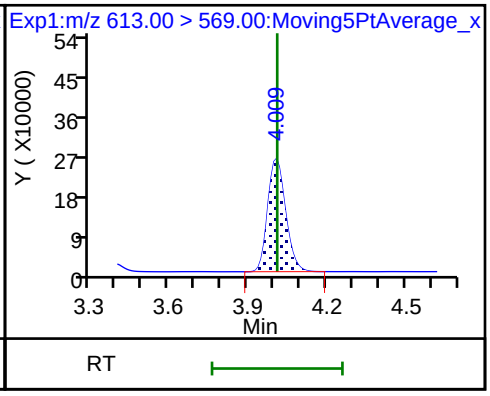
66 11-Chloroeicosafluoro-3-oxaundecan



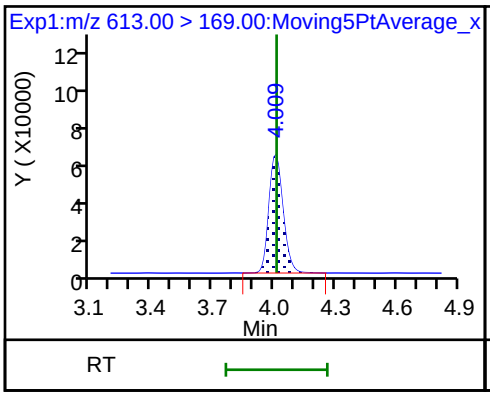
D 36 13C2 PFDoA



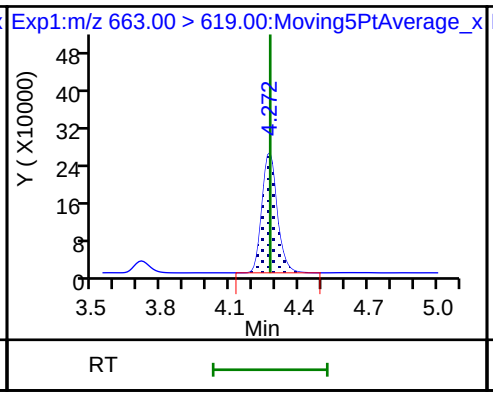
37 Perfluorododecanoic acid



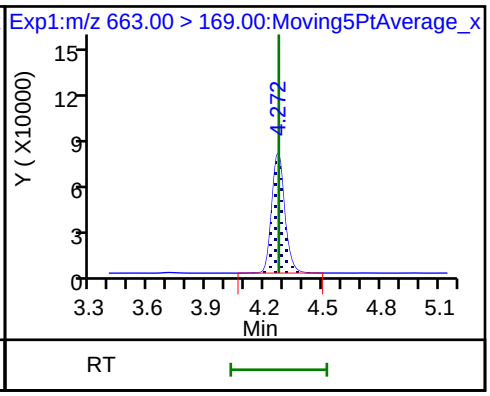
37 Perfluorododecanoic acid



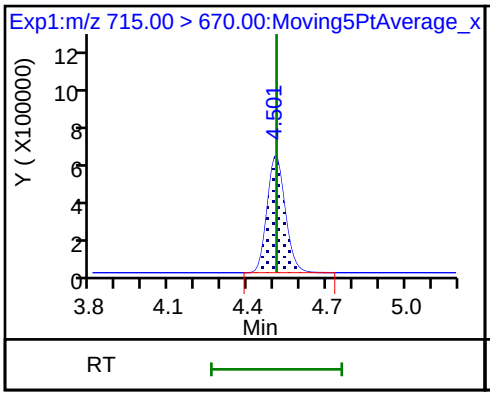
41 Perfluorotridecanoic acid



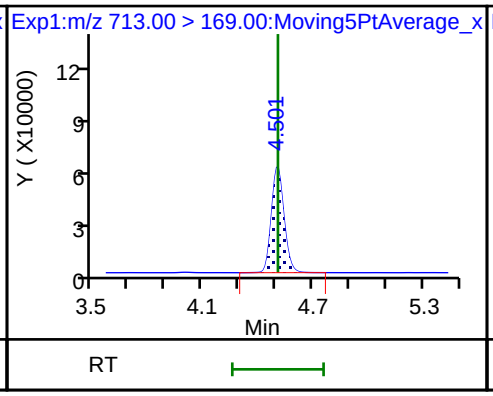
41 Perfluorotridecanoic acid



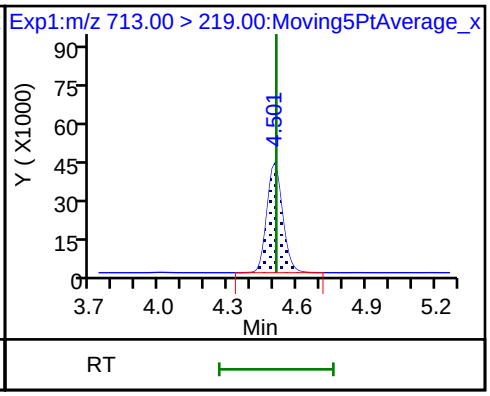
D 43 13C2-PFTeDA



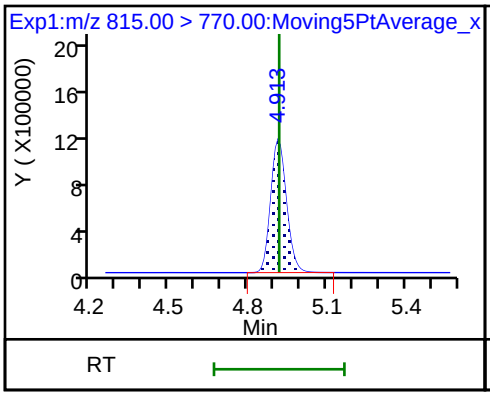
42 Perfluorotetradecanoic acid



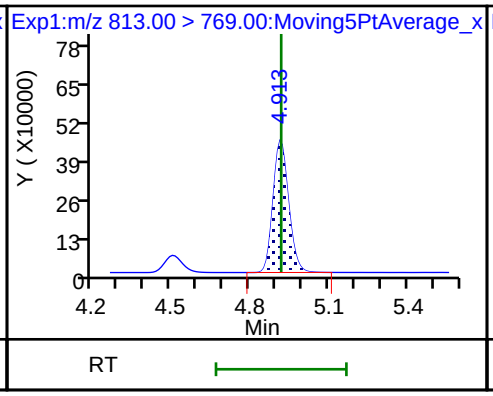
42 Perfluorotetradecanoic acid



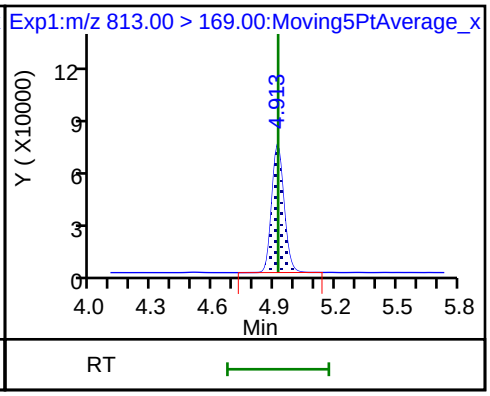
D 44 13C2-PFHxDA



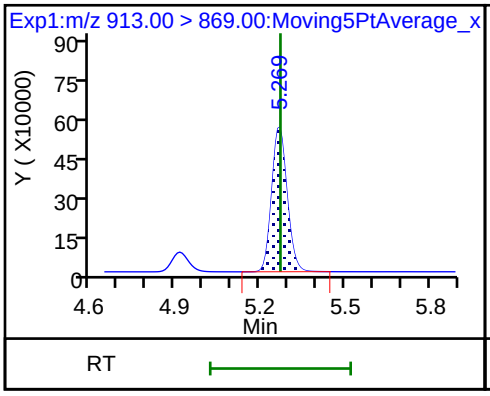
45 Perfluorohexadecanoic acid



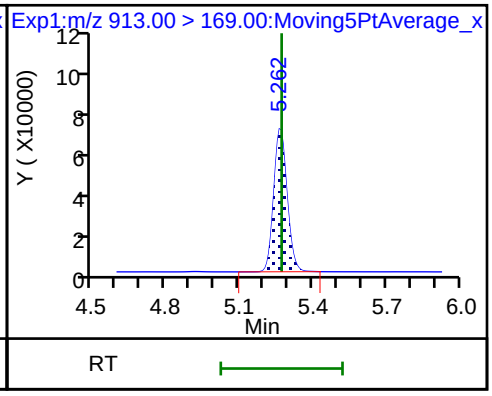
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

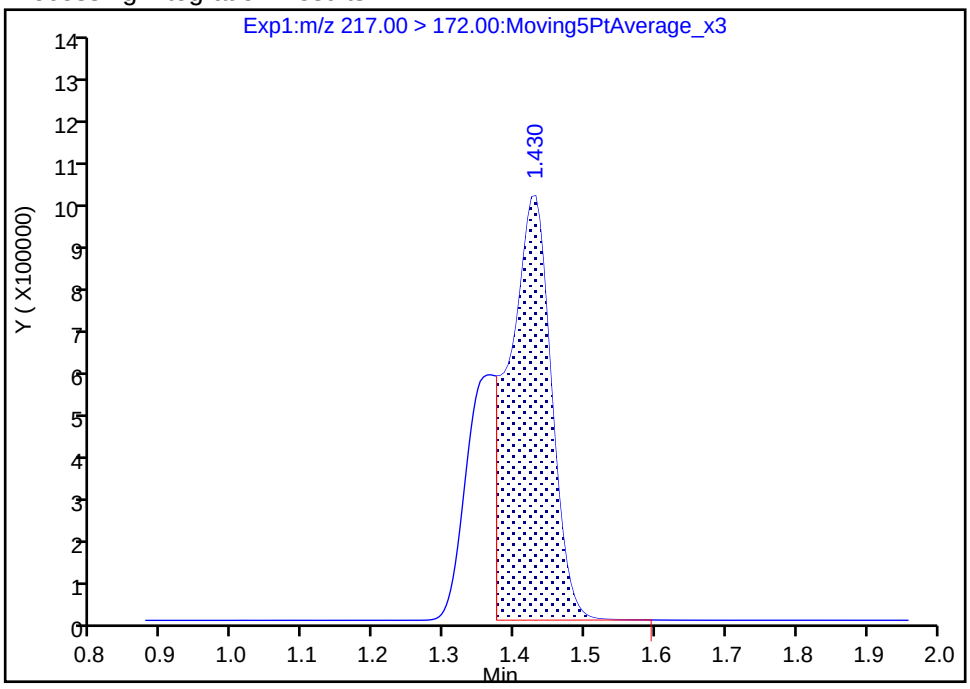
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d
Injection Date: 11-Jul-2018 15:15:12 Instrument ID: A8_N
Lims ID: IC L4 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

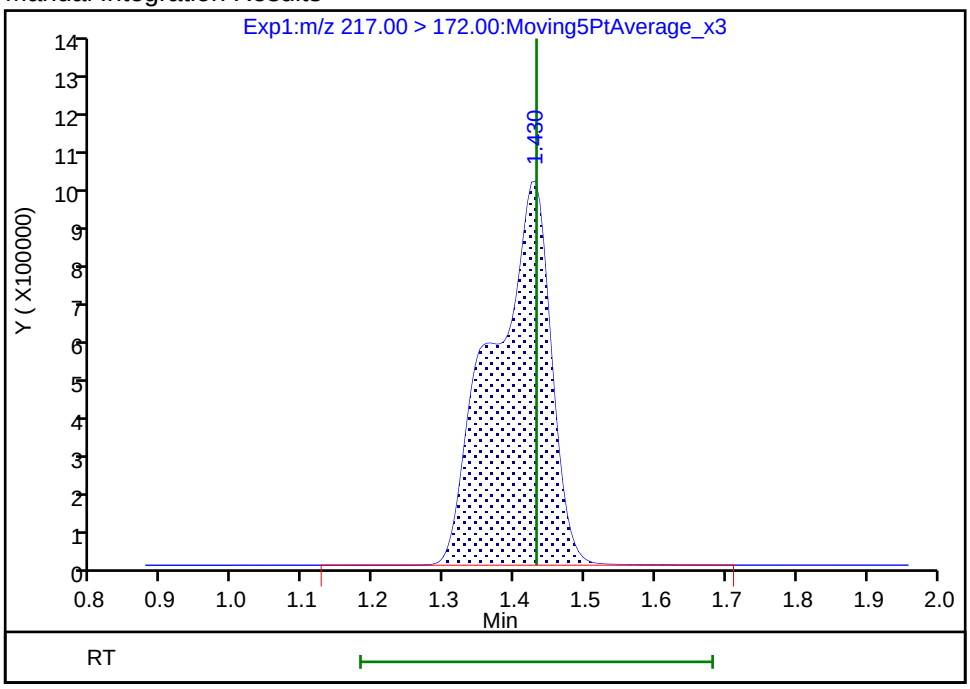
Processing Integration Results

RT: 1.43
Area: 3994583
Amount: 1.883793
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 5641372
Amount: 2.394547
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:16:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jul-2018 15:23:01 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:43 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:16:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.435	1.431	0.004	0.537	5280540	2.41		96.3	25331	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.431	0.004	1.000	5273443	2.53		101	2281	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.702	0.017	1.000	4381627	2.38		95.3	2113	
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.702	0.017	0.643	3788119	2.48		99.4	51157	
D 47 13C3-PFBS										
301.90 > 83.00	1.755	1.748	0.007	0.656	86878	2.27		97.5	540	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.755	1.751	0.004	1.000	6674181	2.33		106	61281	
298.90 > 99.00	1.764	1.751	0.013	1.005	2645946		2.52(1.25-3.74)	106	30456	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.969	1.962	0.007	1.122	1107254	2.28		97.6	50198	
D 60 M2-4:2FTS										
329.00 > 81.00	1.969	1.962	0.007	0.737	473738	2.30		98.6	7088	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	1.996	0.006	0.749	4018475	2.44		97.7	79463	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	1.998	0.004	1.000	4160132	2.51		101	10856	
313.00 > 119.00	2.002	1.998	0.004	1.000	388380		10.71(5.03-15.10)	101	9906	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.022	0.003	1.154	6455101	2.48		106	54556	
349.00 > 99.00	2.025	2.022	0.003	1.154	2229345		2.90(1.36-4.07)	106	35942	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.783	311580	2.66		106	7946	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.104	2.095	0.009	1.005	778109	2.35		94.1	4944	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.867	3786835	2.50		99.9	33591	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	4400212	2.51		100	8612	
363.00 > 169.00	2.319	2.319	0.0	1.000	1670402		2.63(1.13-3.40)	100	14099	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	5315063	2.21		97.2	20906	
399.00 > 99.00	2.332	2.332	0.0	1.000	1742127		3.05(1.50-4.49)	97.2	10227	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.872	4952007	2.31		97.5	38010	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.777	12756974	2.55		108	64864	
377.00 > 85.00	2.358	2.360	-0.002	0.777	7312674		1.74(0.84-2.53)	108	31574	
D 12 M2-6:2FTS										
429.00 > 81.00	2.643	2.645	-0.002	0.989	735229	2.26		95.3	14601	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.648	0.003	1.003	1207511	2.49		105	19337	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.674	2.672	0.002	1.000	4451468	2.36		94.1	3343	
413.00 > 169.00	2.674	2.672	0.002	1.000	2330707		1.91(0.84-2.52)	94.1	9438	
* 62 13C2-PFOA										
415.00 > 370.00	2.674	2.672	0.002		4043518	2.50			48829	
D 14 13C4 PFOA										
417.00 > 372.00	2.674	2.672	0.002	1.000	3836329	2.48		99.2	36799	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.682	2.678	0.004	0.884	5191820	2.53		107	34935	
449.00 > 99.00	2.682	2.678	0.004	0.884	1323329		3.92(1.94-5.82)	107	17676	
D 18 13C4 PFOS										
503.00 > 80.00	3.034	3.034	0.0	1.135	3715442	2.36		98.7	27307	
D 19 13C5 PFNA										
468.00 > 423.00	3.034	3.035	-0.001	1.135	3458178	2.50		100	35610	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.034	3.035	-0.001	1.000	4135858	2.35		101	37972	
499.00 > 99.00	3.034	3.035	-0.001	1.000	892390		4.63(2.31-6.93)	101	14610	
20 Perfluorononanoic acid										
463.00 > 419.00	3.034	3.036	-0.002	1.000	3819652	2.49		99.6	8703	
463.00 > 169.00	3.034	3.036	-0.002	1.000	918661		4.16(1.90-5.69)	99.6	19742	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.248	3.245	0.003	1.071	7252582	2.54		109	52779	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.367	0.005	1.261	5643811	2.48		99.4	47295	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.371	0.001	1.000	5880155	2.64		106	55445	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.382	3.377	0.005	1.115	2871112	2.38		99.3	46492	
549.00 > 99.00	3.372	3.377	-0.005	1.112	1101132		2.61(1.33-3.97)	99.3	15623	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.382	3.380	0.002	1.000	1414341	2.48		103	28571	
D 26 M2-8:2FTS										
529.00 > 81.00	3.382	3.380	0.002	1.265	1060685	2.23		93.2	19616	
D 23 13C2 PFDA										
515.00 > 470.00	3.391	3.391	0.0	1.268	3096188	2.55		102	36882	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.391	3.392	-0.001	1.000	3246129	2.50		99.9	19256	
513.00 > 169.00	3.391	3.392	-0.001	1.000	556303		5.84(2.36-7.09)	99.9	17777	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.540	3.544	-0.004	1.324	1216339	2.45		97.8	19061	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.550	3.548	0.002	1.003	1243187	2.59		104	9167	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.700	3.701	-0.001	1.220	2652406	2.54		105	55532	
599.00 > 99.00	3.700	3.701	-0.001	1.220	845113		3.14(1.39-4.16)	105	44197	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.711	3.710	0.001	1.388	1230676	2.42		96.6	2971	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.716	-0.005	1.388	2509304	2.48		99.0	34202	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.721	3.718	0.003	1.003	1138694	2.62		105	27224	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.721	3.718	0.003	1.003	2099121	2.55		102	10965	
563.00 > 169.00	3.721	3.718	0.003	1.003	516328		4.07(2.12-6.36)	102	21072	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.879	3.874	0.005	1.279	10147290	2.46		104	87741	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.009	0.001	1.500	2524421	2.40		96.1	15731	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.011	-0.001	1.000	2886271	2.62		105	1721	
613.00 > 169.00	4.010	4.011	-0.001	1.000	674369		4.28(2.13-6.40)	105	13057	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.273	4.273	0.0	1.066	2993320	2.78		111	1323	
663.00 > 169.00	4.273	4.273	0.0	1.066	854966		3.50(1.25-3.76)	111	11132	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.513	4.508	0.005	1.688	2737226	2.51		100	14031	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.513	4.508	0.005	1.000	681755	2.39		95.7	9488	
713.00 > 219.00	4.502	4.508	-0.006	0.998	464264		1.47(0.71-2.13)	95.7	8850	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.915	4.918	-0.003	1.838	4503233	2.59		104	13280	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.915	4.918	-0.003	1.000	4281172	2.48		99.2	858	
813.00 > 169.00	4.915	4.918	-0.003	1.000	687117		6.23(2.86-8.58)	99.2	5691	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.270	5.271	-0.001	1.072	5144900	2.50		100.0	916	
913.00 > 169.00	5.270	5.271	-0.001	1.072	608942		8.45(3.83-11.48)	100.0	5777	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:45 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_006.d

Injection Date: 11-Jul-2018 15:23:01 Instrument ID: A8_N

Lims ID: IC L5 Full

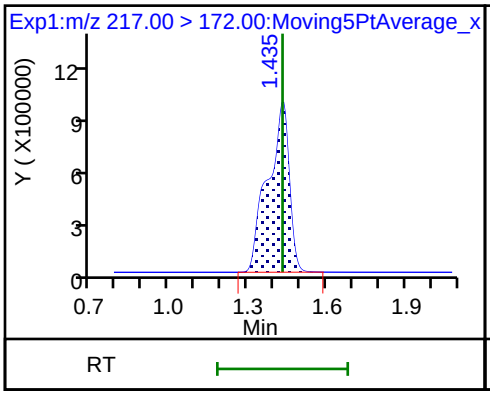
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

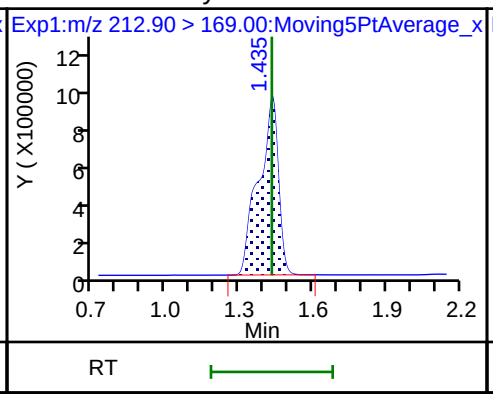
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

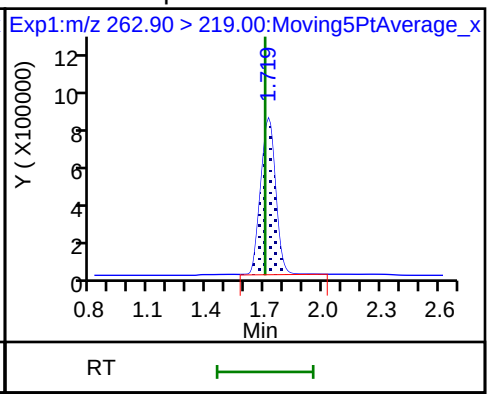
D 1 13C4 PFBA



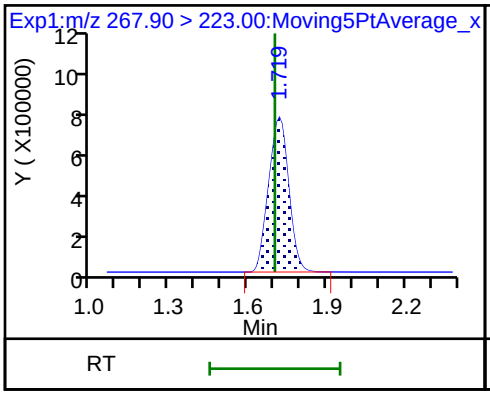
2 Perfluorobutyric acid



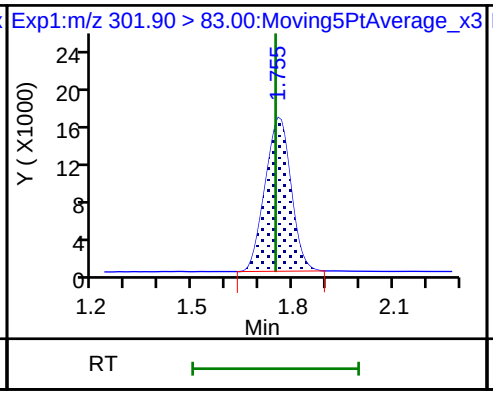
4 Perfluoropentanoic acid



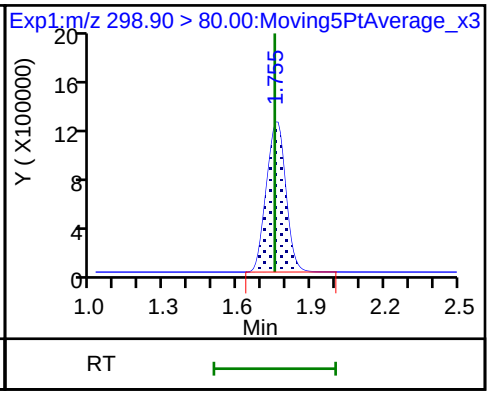
D 3 13C5-PFPeA



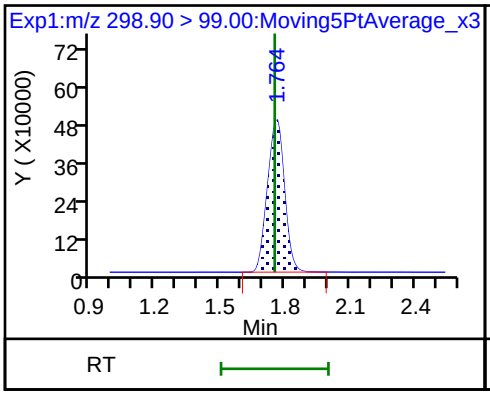
D 47 13C3-PFBS



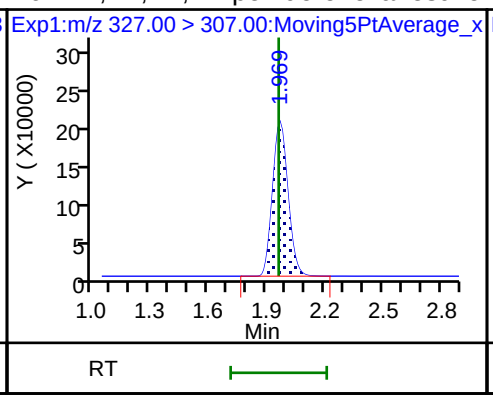
5 Perfluorobutanesulfonic acid



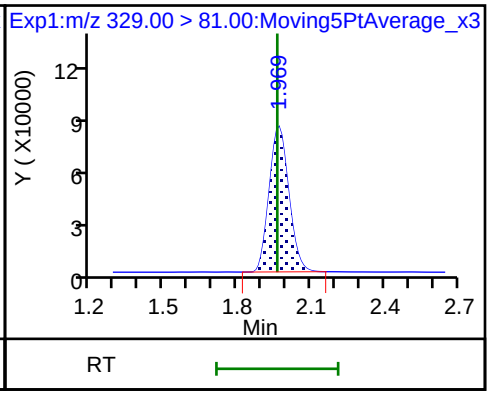
5 Perfluorobutanesulfonic acid



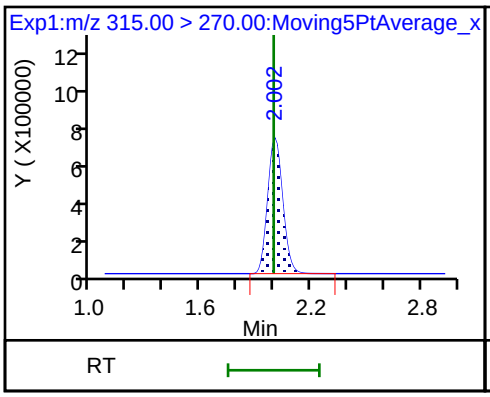
61 1H,1H,2H,2H-perfluorohexanesulfon



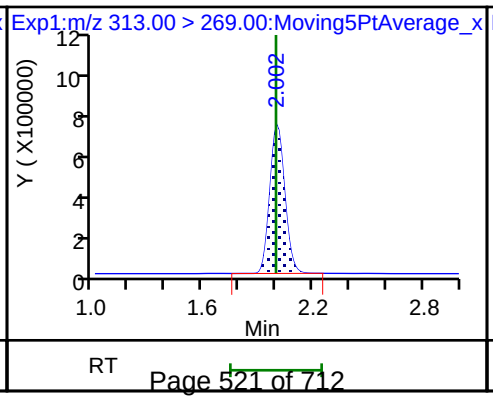
D 60 M2-4:2FTS



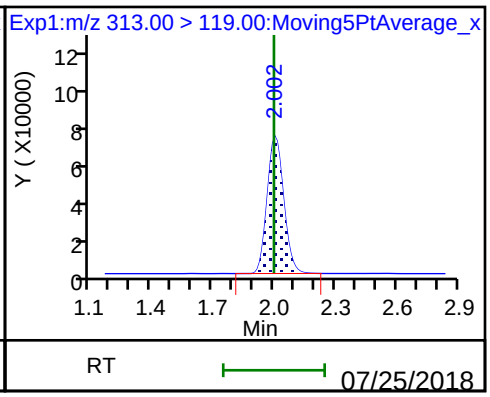
D 7 13C2 PFHxA



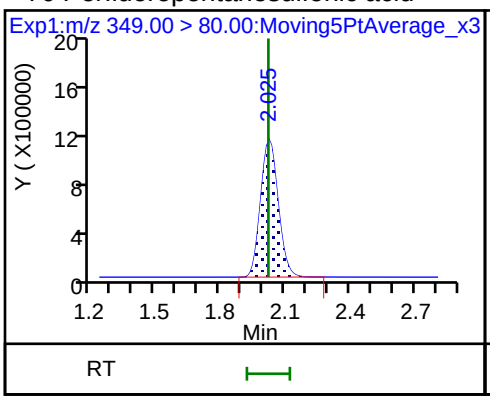
6 Perfluorohexanoic acid



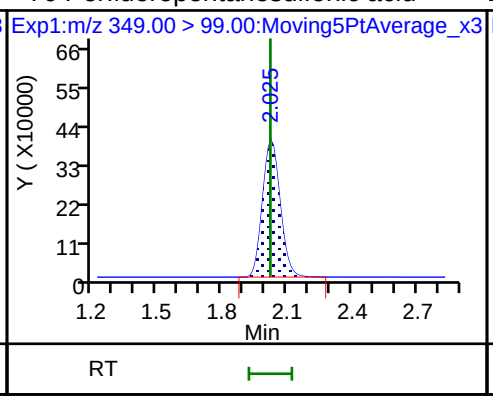
6 Perfluorohexanoic acid



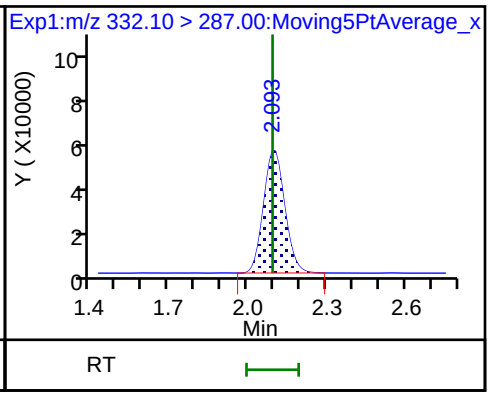
70 Perfluoropentanesulfonic acid



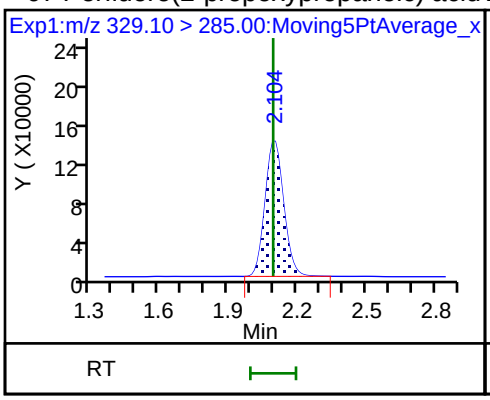
70 Perfluoropentanesulfonic acid



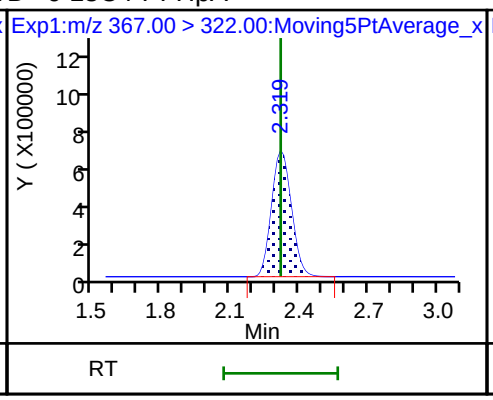
D 64 13C3 HFPO-DA



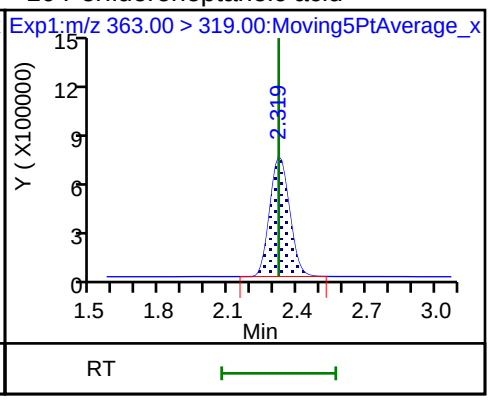
67 Perfluoro(2-propoxypropanoic) acid



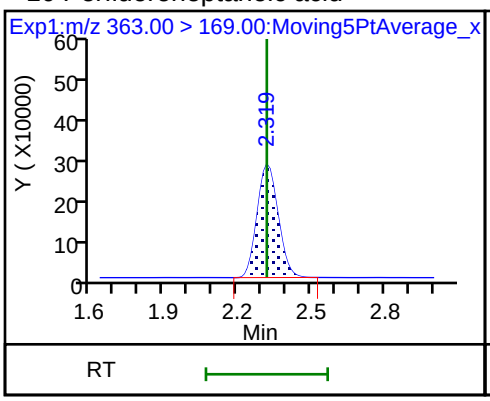
D 9 13C4-PFHpA



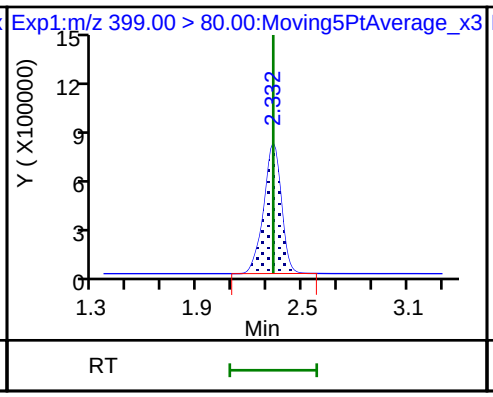
10 Perfluoroheptanoic acid



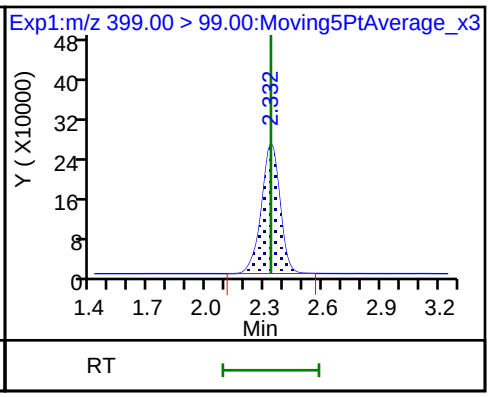
10 Perfluoroheptanoic acid



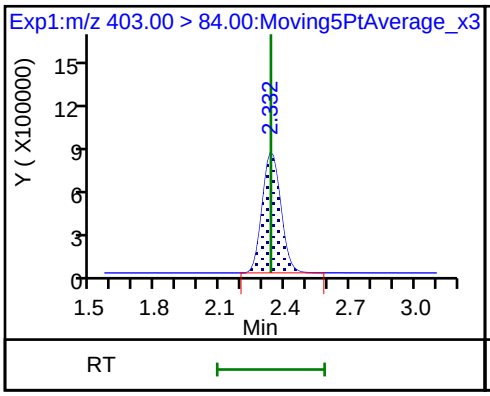
8 Perfluorohexanesulfonic acid



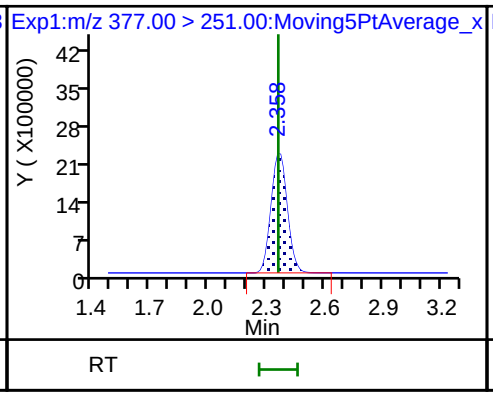
8 Perfluorohexanesulfonic acid



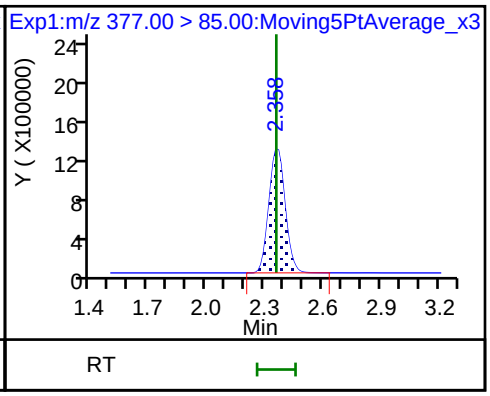
D 11 18O2 PFHxS



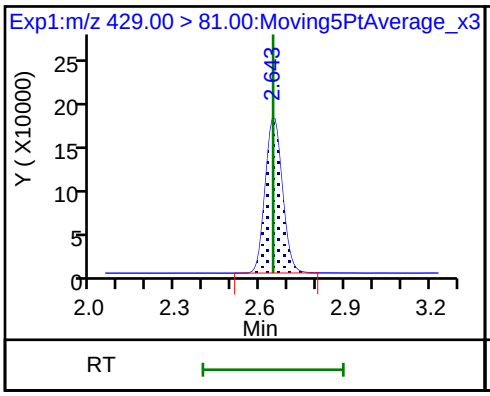
65 Adona



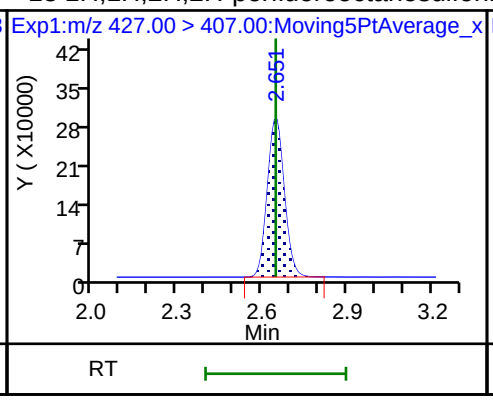
65 Adona



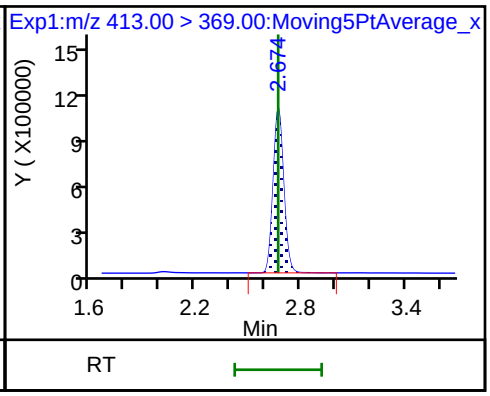
D 12 M2-6:2FTS



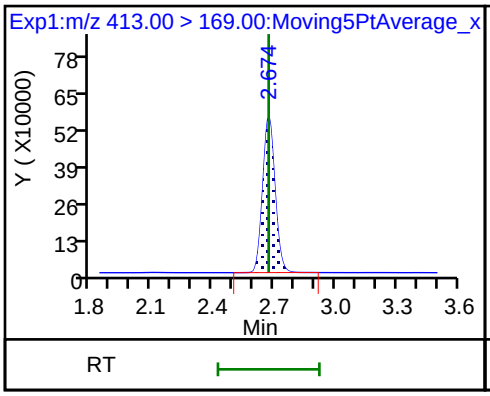
13 1H,1H,2H,2H-perfluorooctanesulfoni



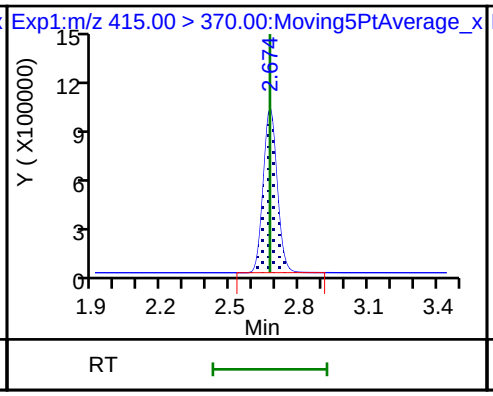
15 Perfluorooctanoic acid



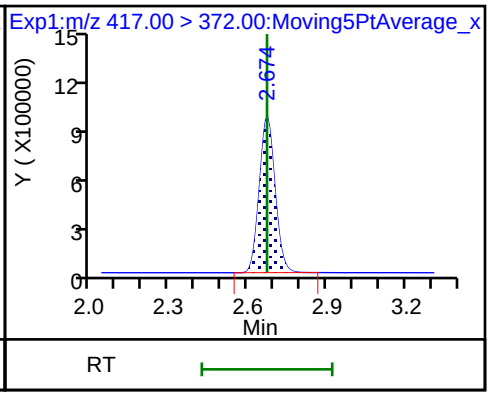
15 Perfluorooctanoic acid



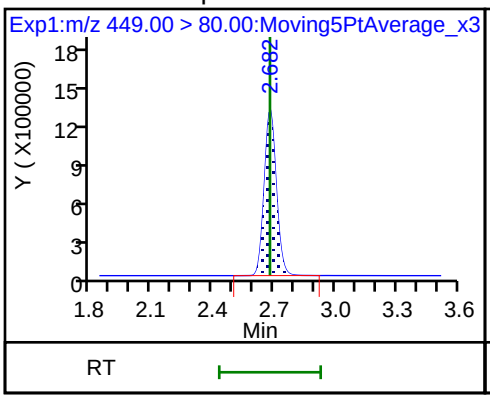
* 62 13C2-PFOA



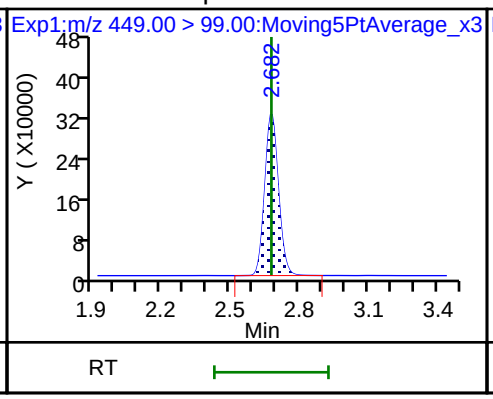
D 14 13C4 PFOA



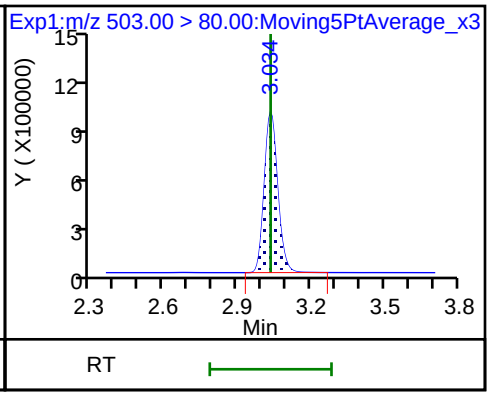
16 Perfluoroheptanesulfonic acid



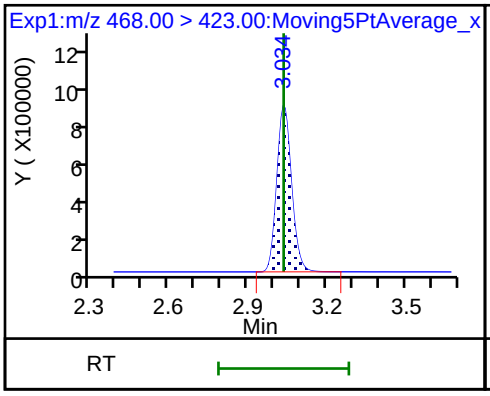
16 Perfluoroheptanesulfonic acid



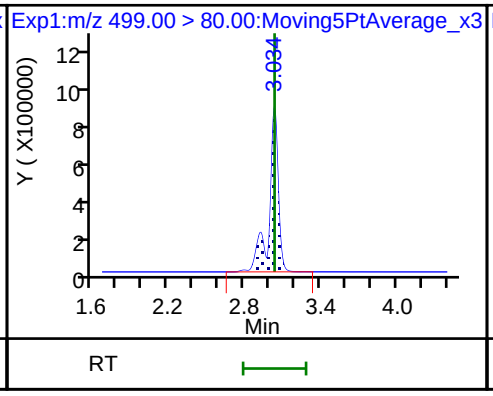
D 18 13C4 PFOS



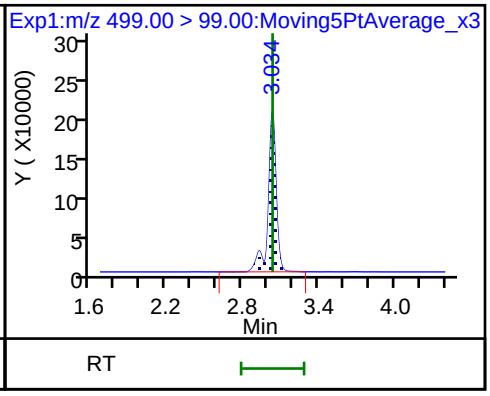
D 19 13C5 PFNA



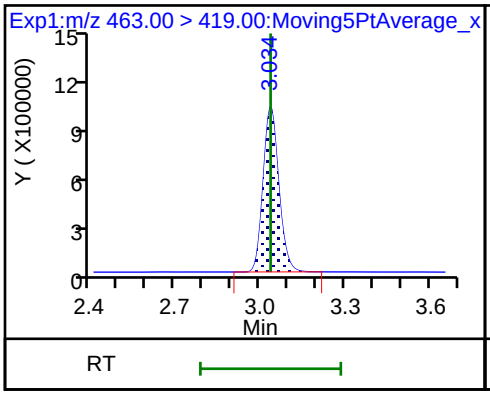
17 Perfluorooctane sulfonic acid



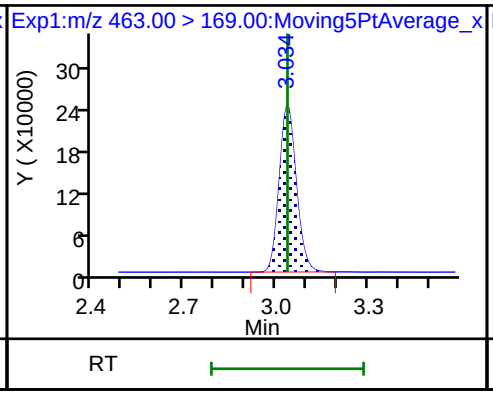
17 Perfluorooctane sulfonic acid



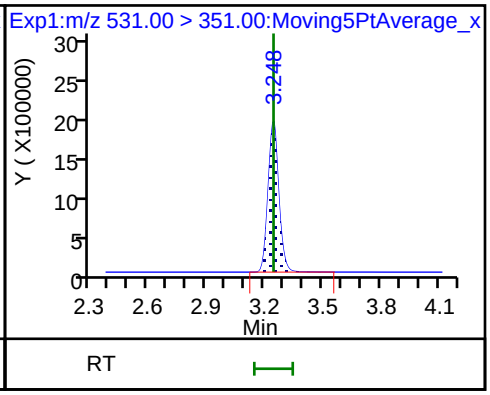
20 Perfluorononanoic acid



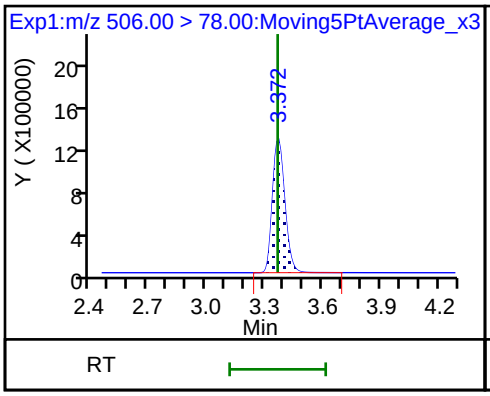
20 Perfluorononanoic acid



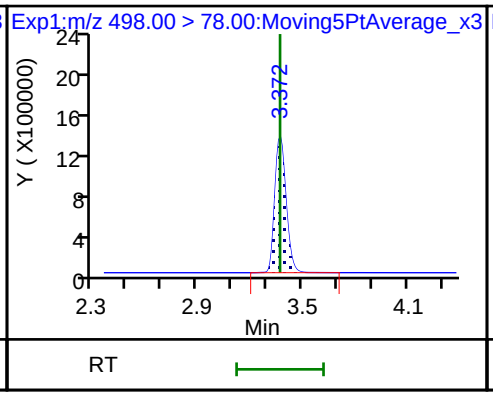
69 9-Chlorohexadecafluoro-3-oxanonane



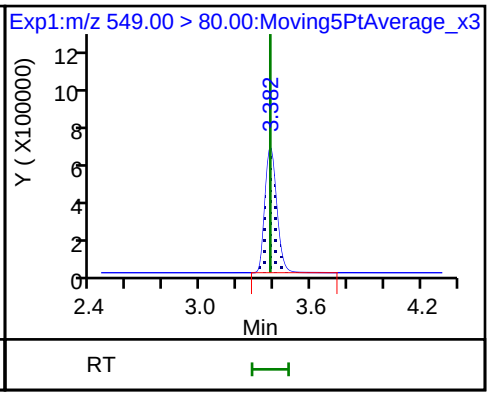
D 21 13C8 FOSA



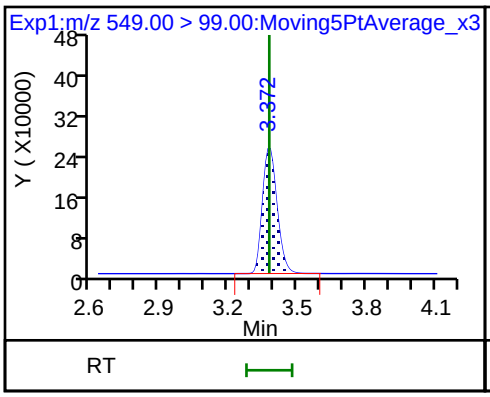
22 Perfluorooctane Sulfonamide



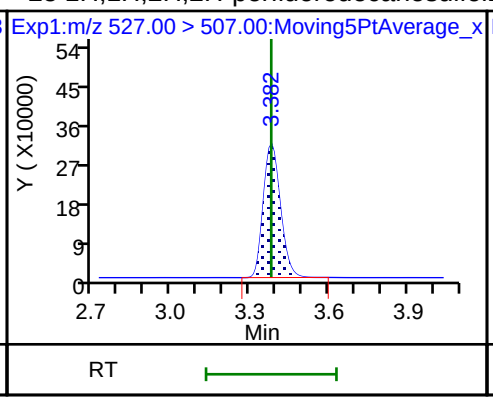
68 Perfluorononanesulfonic acid



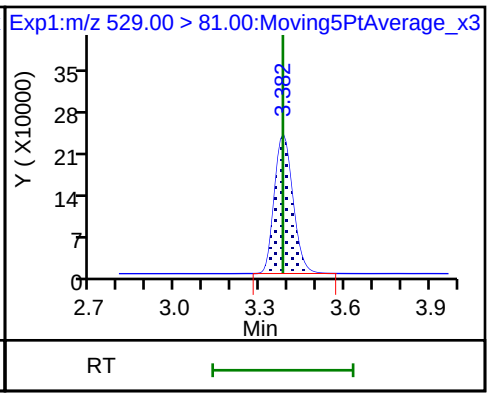
68 Perfluorononanesulfonic acid



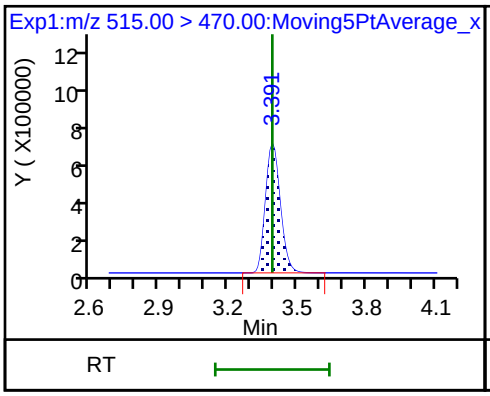
25 1H,1H,2H,2H-perfluorodecanesulfon



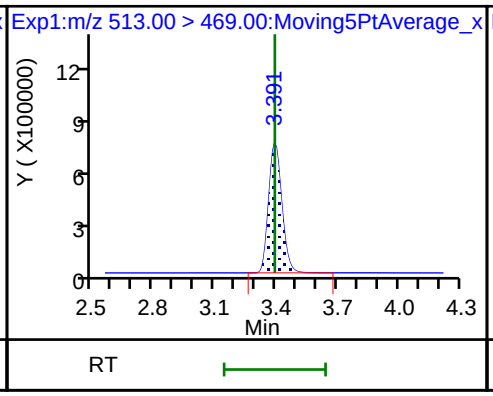
D 26 M2-8:2FTS



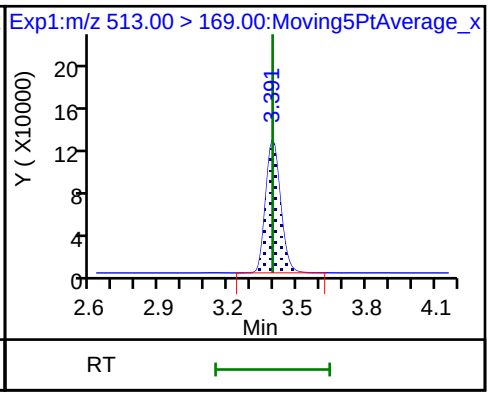
D 23 13C2 PFDA



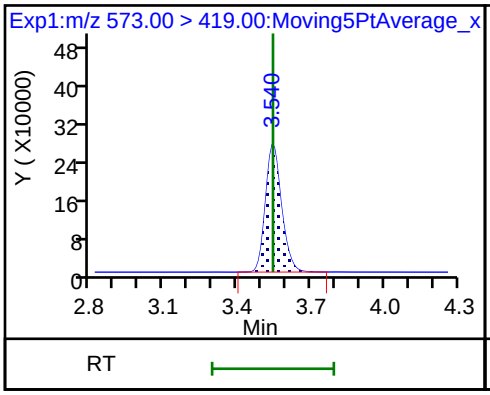
24 Perfluorodecanoic acid



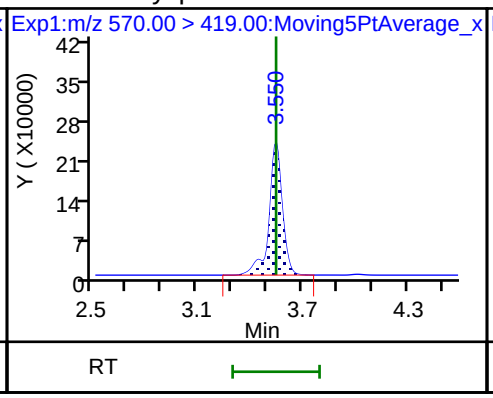
24 Perfluorodecanoic acid



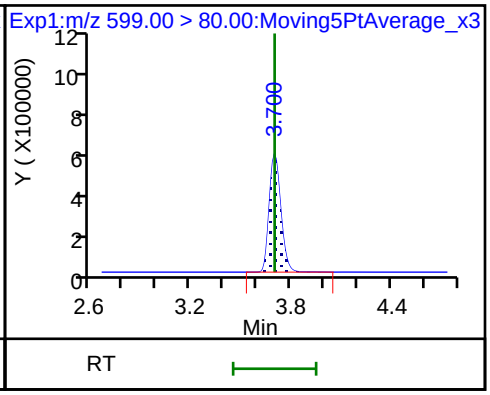
D 27 d3-NMeFOSAA



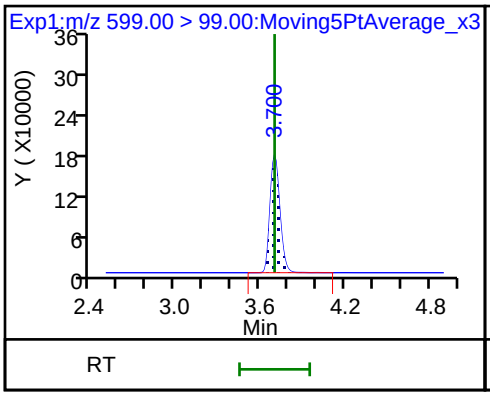
28 N-methyl perfluorooctane sulfonami



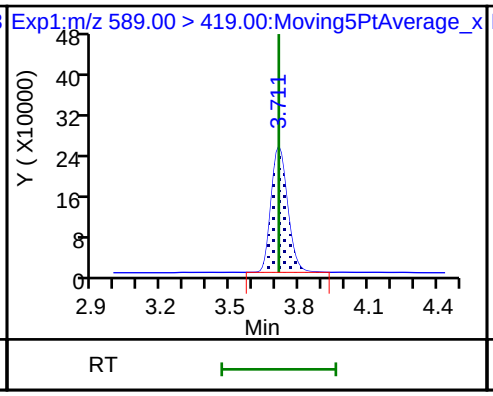
29 Perfluorodecane Sulfonic acid



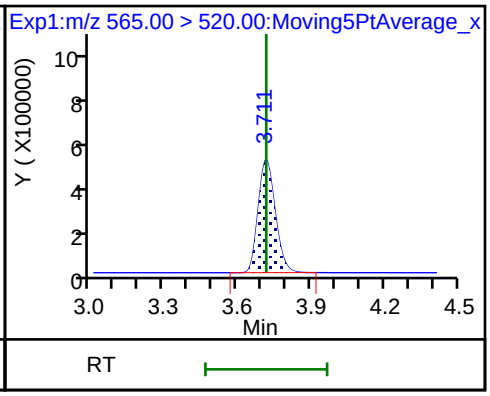
29 Perfluorodecane Sulfonic acid



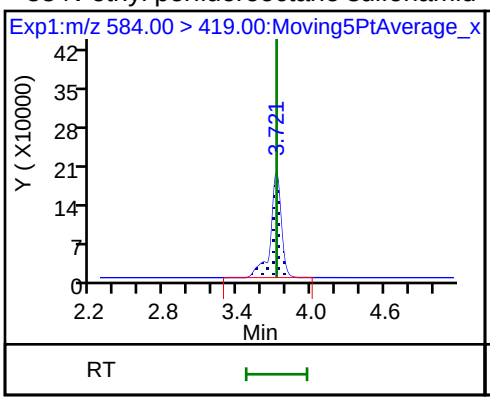
D 32 d5-NEtFOSAA



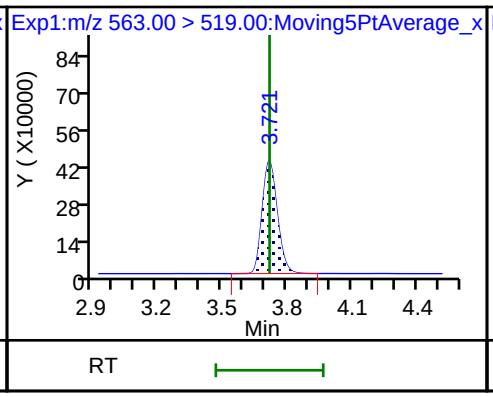
D 30 13C2 PFUnA



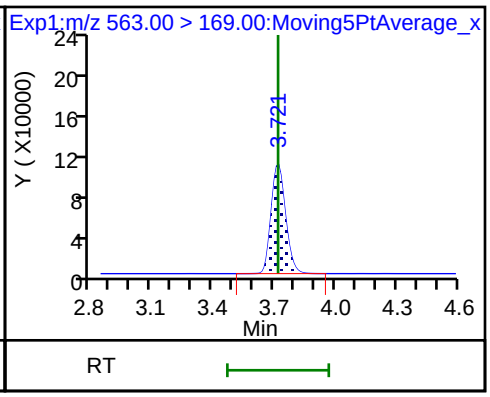
33 N-ethyl perfluorooctane sulfonamid



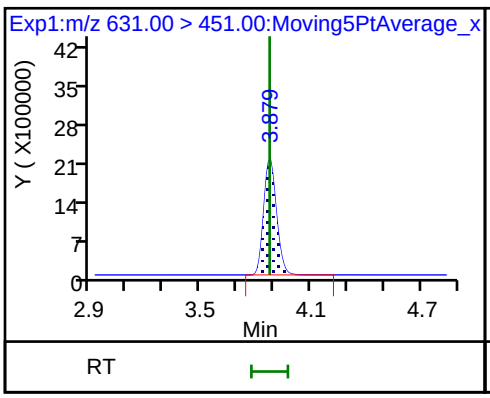
31 Perfluoroundecanoic acid



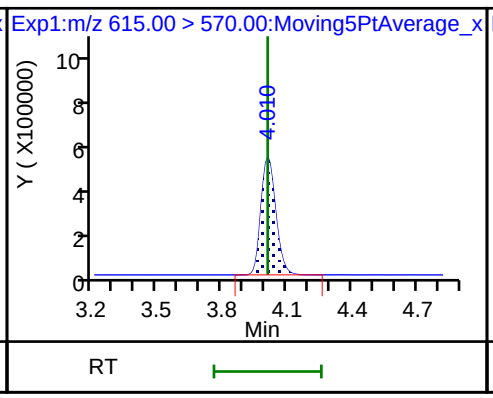
31 Perfluoroundecanoic acid



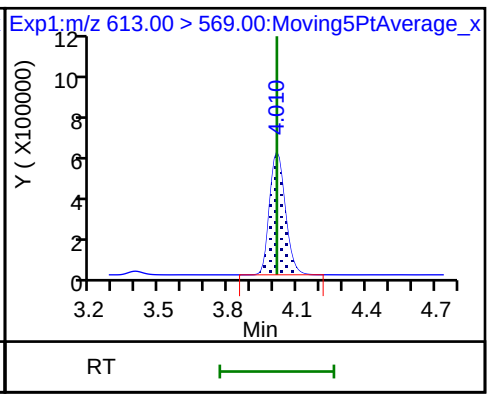
66 11-Chloroeicosafluoro-3-oxaundecan



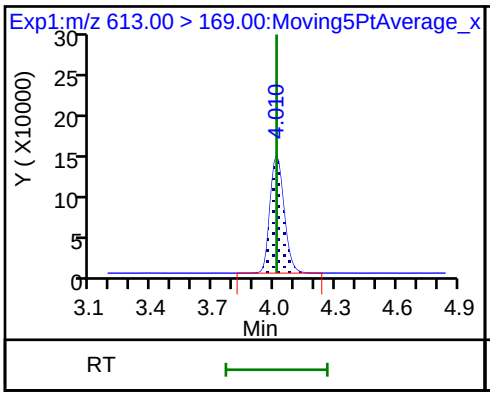
D 36 13C2 PFDoA



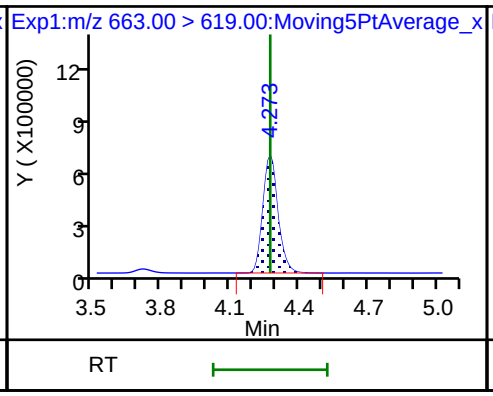
37 Perfluorododecanoic acid



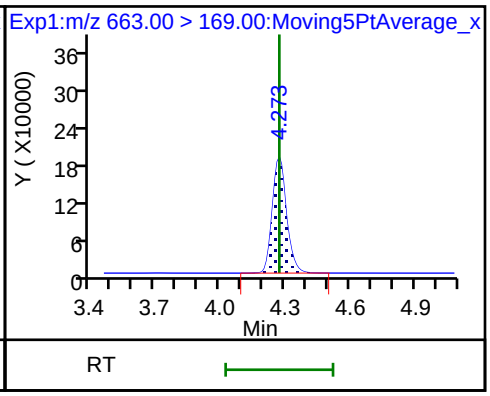
37 Perfluorododecanoic acid



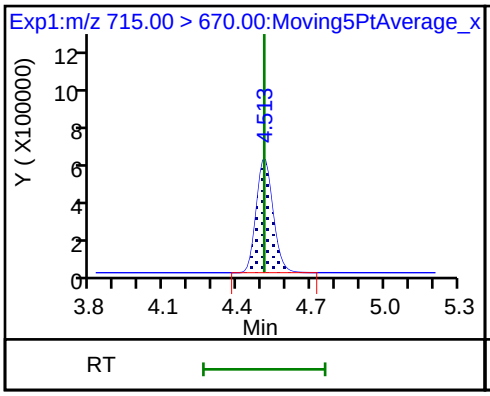
41 Perfluorotridecanoic acid



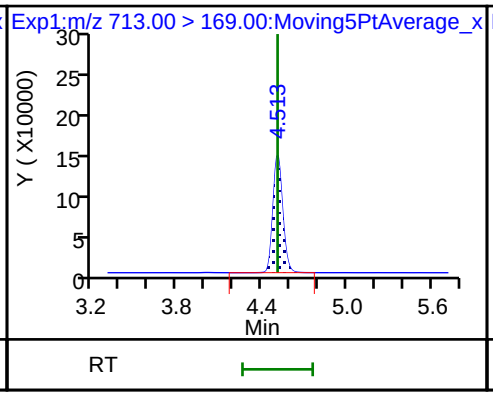
41 Perfluorotridecanoic acid



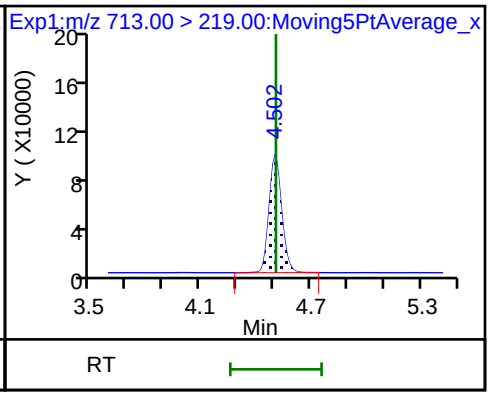
D 43 13C2-PFTeDA



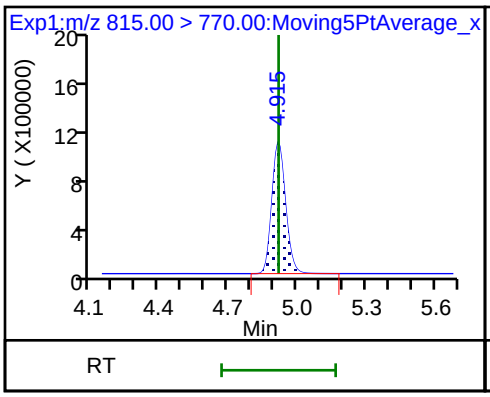
42 Perfluorotetradecanoic acid



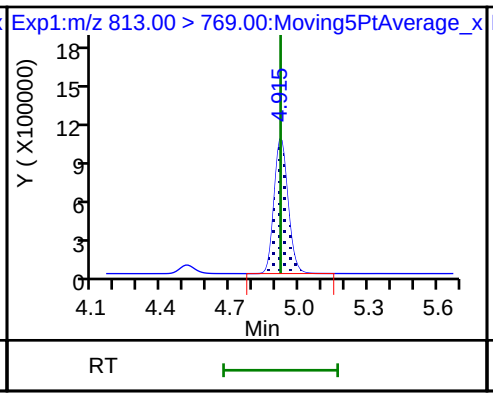
42 Perfluorotetradecanoic acid



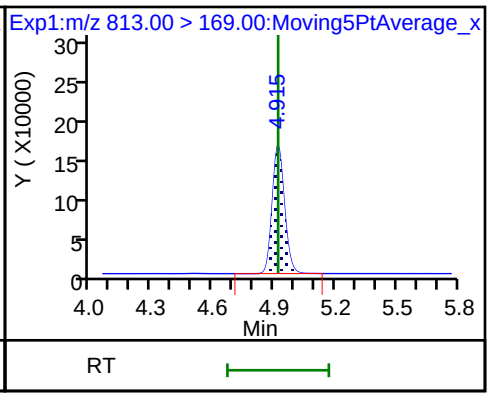
D 44 13C2-PFHxDA



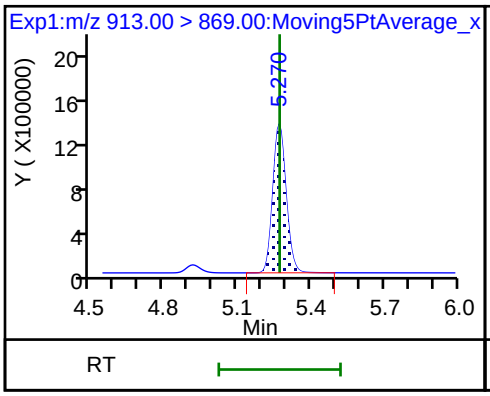
45 Perfluorohexadecanoic acid



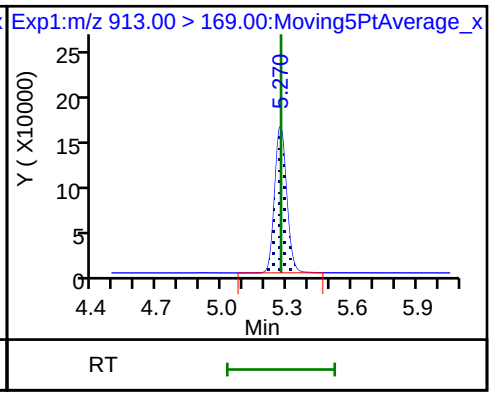
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jul-2018 15:30:51 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:48 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:16:59

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.431	-0.001	0.536	5244451	2.60		104	26067	
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	10623913	5.14		103	4269	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.702	0.010	0.995	8699476	4.80		96.0	3536	
D 3 13C5-PFPeA										
267.90 > 223.00	1.721	1.702	0.019	0.645	3734969	2.67		107	45652	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.748	0.009	0.659	85755	2.44		105	556	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.751	0.006	1.000	12546505	4.45		101	80798	
298.90 > 99.00	1.757	1.751	0.006	1.000	5222453		2.40(1.25-3.74)	101	56269	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.962	-0.002	1.116	2260293	4.71		101	66860	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.962	-0.002	0.735	448621	2.37		102	7916	
D 7 13C2 PFHxA										
315.00 > 270.00	2.005	1.996	0.009	0.751	3887868	2.57		103	56861	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.005	1.998	0.007	1.000	7978958	4.98		99.7	16483	
313.00 > 119.00	2.005	1.998	0.007	1.000	733692		10.88(5.03-15.10)	99.7	14111	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.022	0.005	1.154	12185262	4.73		101	130724	
349.00 > 99.00	2.027	2.022	0.005	1.154	4447227		2.74(1.36-4.07)	101	59105	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	0.785	274060	2.55		102	6131	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	1554085	5.34		107	9565	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.870	3621431	2.60		104	50151	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	8030466	4.79		95.9	13754	
363.00 > 169.00	2.321	2.319	0.002	1.000	3099430		2.59(1.13-3.40)	95.9	28534	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	10305090	4.44		97.7	24644	
399.00 > 99.00	2.334	2.332	0.002	1.000	3360883		3.07(1.50-4.49)	97.7	16838	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.875	4777689	2.42		102	31887	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.779	21793498	4.54		96.5	93035	
377.00 > 85.00	2.360	2.360	0.0	0.779	13380474		1.63(0.84-2.53)	96.5	38099	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	731524	2.45		103	13338	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.648	-0.003	1.000	2292840	4.76		100	23614	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.672	-0.004	1.000	8461263	4.83		96.5	5834	
413.00 > 169.00	2.668	2.672	-0.004	1.000	4348670		1.95(0.84-2.52)	96.5	14778	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.672	-0.004		3715082	2.50			46614	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.672	-0.004	1.000	3555536	2.50		100	32718	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.883	9707552	4.95		104	57797	
449.00 > 99.00	2.675	2.678	-0.003	0.883	2601931		3.73(1.94-5.82)	104	34929	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.034	-0.006	1.135	3560852	2.46		103	16573	
D 19 13C5 PFNA										
468.00 > 423.00	3.035	3.035	0.0	1.138	3155893	2.48		99.4	35122	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.035	3.035	0.0	1.002	7822689	4.63		99.9	47978	M
499.00 > 99.00	3.028	3.035	-0.007	1.000	1713466		4.57(2.31-6.93)	99.9	18530	
20 Perfluorononanoic acid										
463.00 > 419.00	3.035	3.036	-0.001	1.000	6996919	5.00		99.9	14728	
463.00 > 169.00	3.035	3.036	-0.001	1.000	1776453		3.94(1.90-5.69)	99.9	57242	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.245	-0.001	1.071	12796083	4.68		100	60061	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.367	-0.002	1.261	5338756	2.56		102	42112	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.365	3.371	-0.006	1.000	10688141	5.08		102	53820	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.374	3.377	-0.003	1.114	5807858	5.03		105	55859	
549.00 > 99.00	3.374	3.377	-0.003	1.114	2044157		2.84(1.33-3.97)	105	26141	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.374	3.380	-0.006	1.000	2561237	4.79		100.0	42774	
D 26 M2-8:2FTS										
529.00 > 81.00	3.374	3.380	-0.006	1.265	992916	2.27		94.9	10859	
D 23 13C2 PFDA										
515.00 > 470.00	3.393	3.391	0.002	1.272	2641138	2.37		94.7	24430	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.393	3.392	0.001	1.000	5773802	5.21		104	35658	
513.00 > 169.00	3.393	3.392	0.001	1.000	975368		5.92(2.36-7.09)	104	36128	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.542	3.544	-0.002	1.328	1218514	2.67		107	18907	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.542	3.548	-0.006	1.000	2377396	4.95		99.0	15134	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.701	3.701	0.0	1.222	4963395	4.96		103	171868	
599.00 > 99.00	3.701	3.701	0.0	1.222	1591413		3.12(1.39-4.16)	103	25545	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.712	3.710	0.002	1.391	1179674	2.52		101	2782	
D 30 13C2 PFUnA										
565.00 > 520.00	3.712	3.716	-0.004	1.391	2361908	2.54		101	30441	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.712	3.718	-0.006	1.000	2183486	5.23		105	52082	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.712	3.718	-0.006	1.000	3694320	4.77		95.4	15018	
563.00 > 169.00	3.712	3.718	-0.006	1.000	987463		3.74(2.12-6.36)	95.4	29138	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.869	3.874	-0.005	1.278	18152128	4.59		97.5	108382	
D 36 13C2 PFDoA										
615.00 > 570.00	4.002	4.009	-0.007	1.500	2508500	2.60		104	17566	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.002	4.011	-0.009	1.000	5437907	4.96		99.3	3341	
613.00 > 169.00	4.002	4.011	-0.009	1.000	1255499		4.33(2.13-6.40)	99.3	21823	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.067	5412702	5.05		101	2553	
663.00 > 169.00	4.271	4.273	-0.002	1.067	1682812		3.22(1.25-3.76)	101	21504	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.687	2597628	2.59		104	14814	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	1344804	4.97		99.5	16596	
713.00 > 219.00	4.501	4.508	-0.007	1.000	959226		1.40(0.71-2.13)	99.5	12659	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.842	4082261	2.56		102	14471	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	7932024	5.09		102	1899	
813.00 > 169.00	4.914	4.918	-0.004	1.000	1261923		6.29(2.86-8.58)	102	9525	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.262	5.271	-0.009	1.071	9282794	4.97		99.5	1626	
913.00 > 169.00	5.262	5.271	-0.009	1.071	1136842		8.17(3.83-11.48)	99.5	7354	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL6_00006 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:50 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d

Injection Date: 11-Jul-2018 15:30:51 Instrument ID: A8_N

Lims ID: IC L6 Full

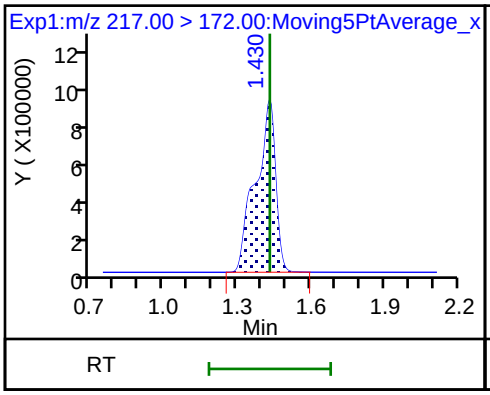
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

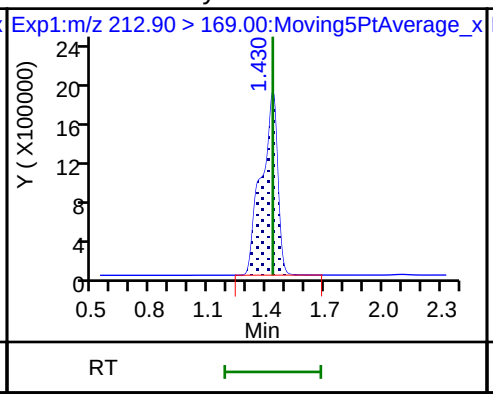
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

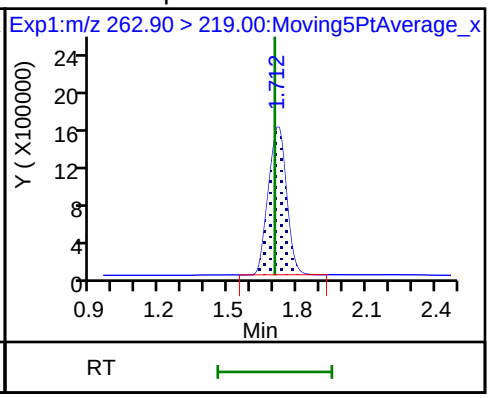
D 1 13C4 PFBA



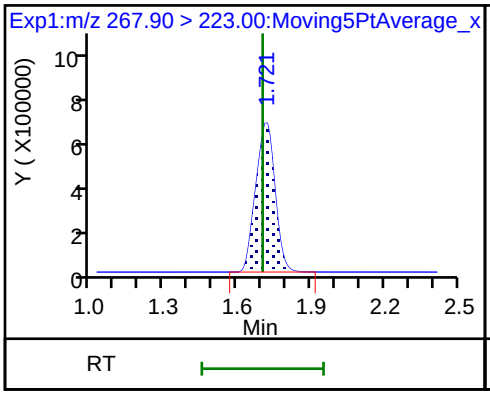
2 Perfluorobutyric acid



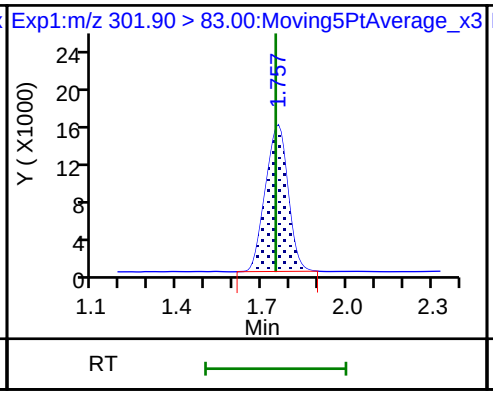
4 Perfluoropentanoic acid



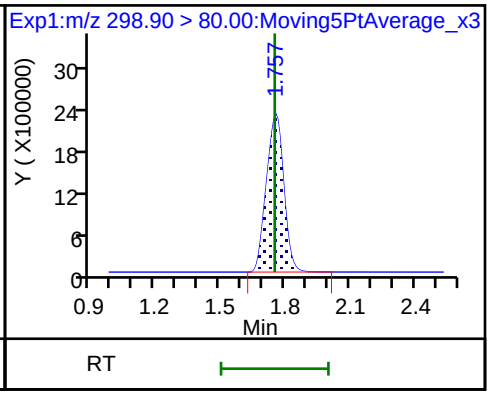
D 3 13C5-PFPeA



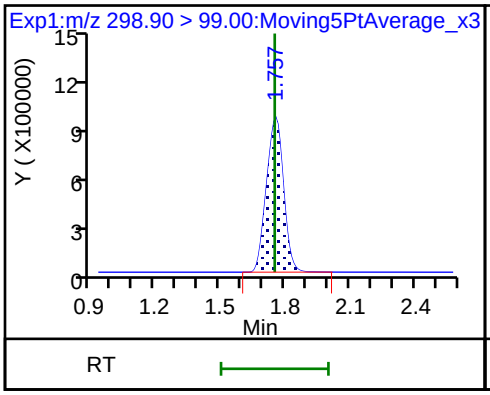
D 47 13C3-PFBS



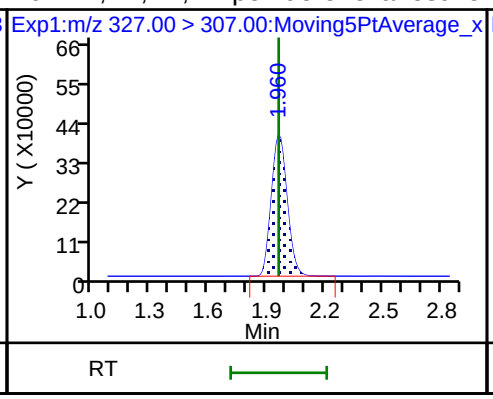
5 Perfluorobutanesulfonic acid



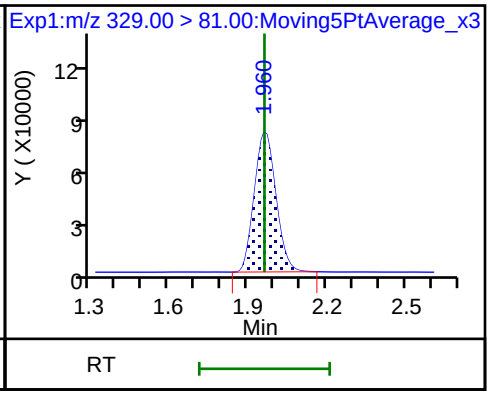
5 Perfluorobutanesulfonic acid



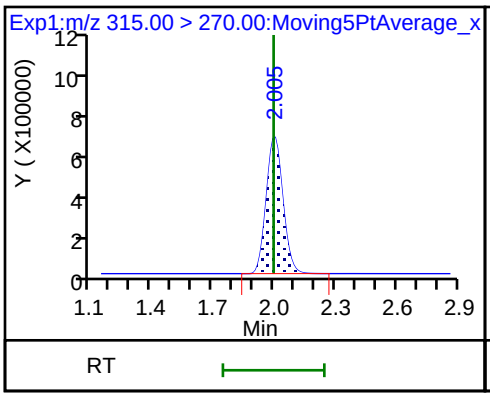
61 1H,1H,2H,2H-perfluorohexanesulfon



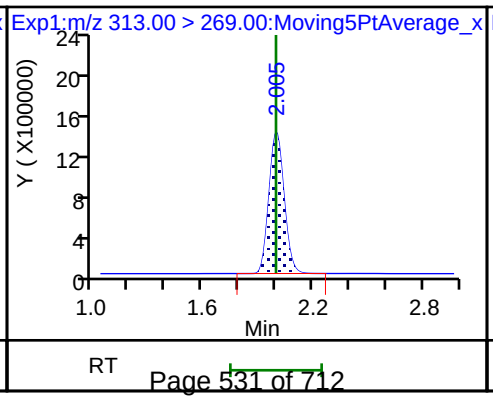
D 60 M2-4:2FTS



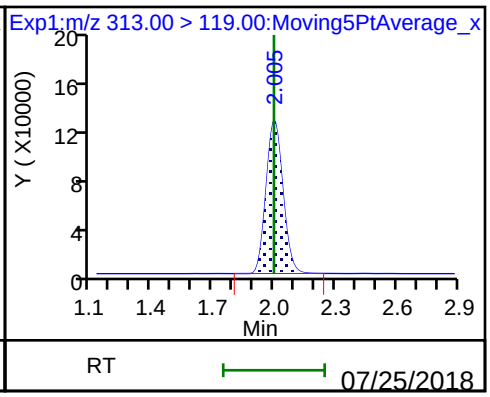
D 7 13C2 PFHxA



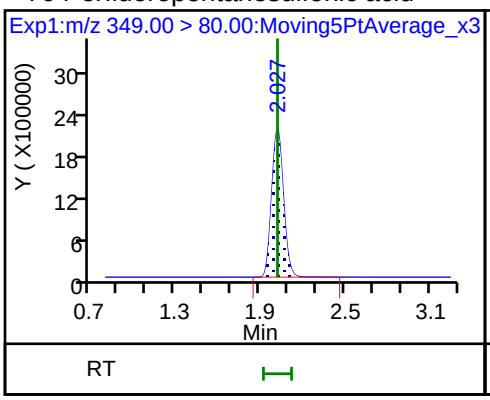
6 Perfluorohexanoic acid



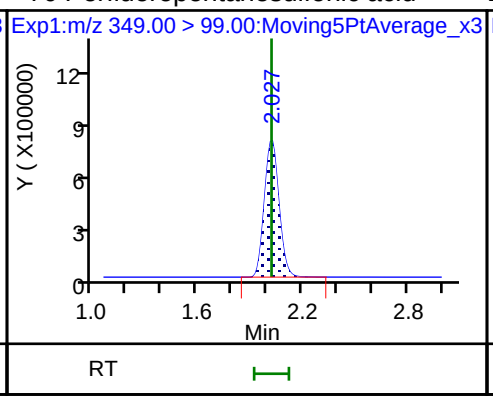
6 Perfluorohexanoic acid



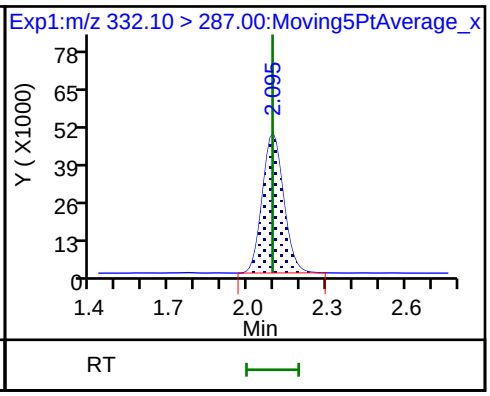
70 Perfluoropentanesulfonic acid



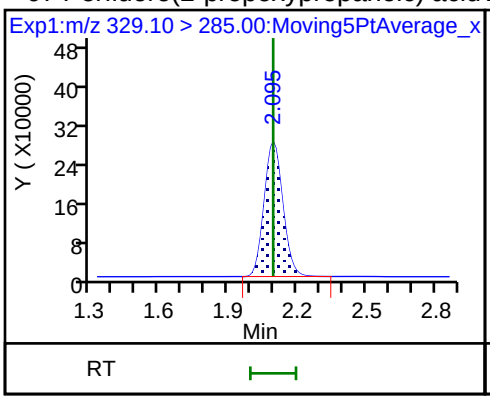
70 Perfluoropentanesulfonic acid



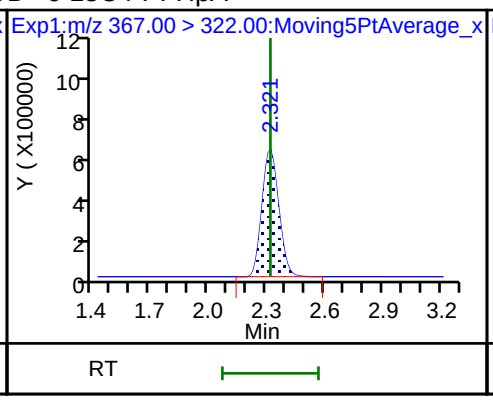
D 64 13C3 HFPO-DA



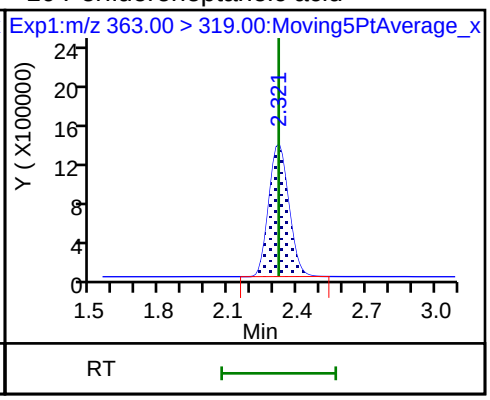
67 Perfluoro(2-propoxypropanoic) acid



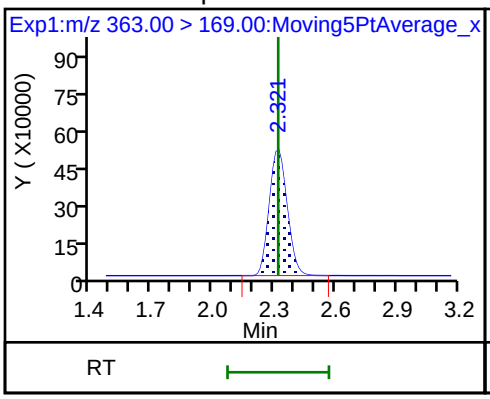
D 9 13C4-PFHpA



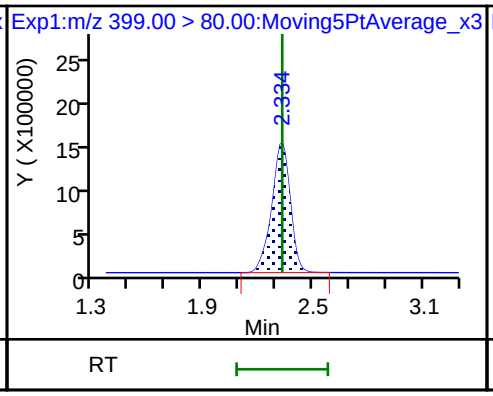
10 Perfluoroheptanoic acid



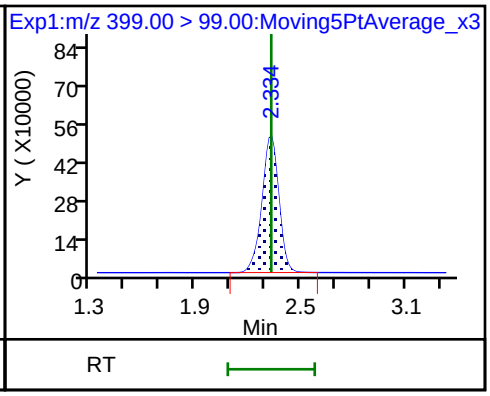
10 Perfluoroheptanoic acid



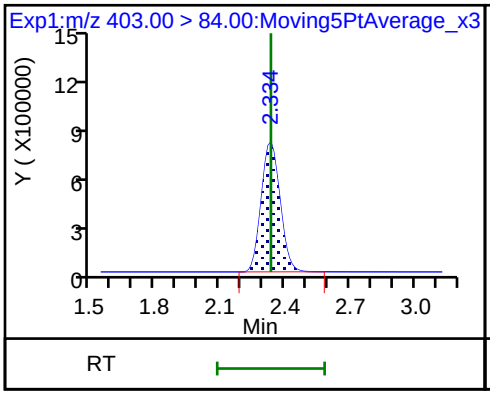
8 Perfluorohexanesulfonic acid



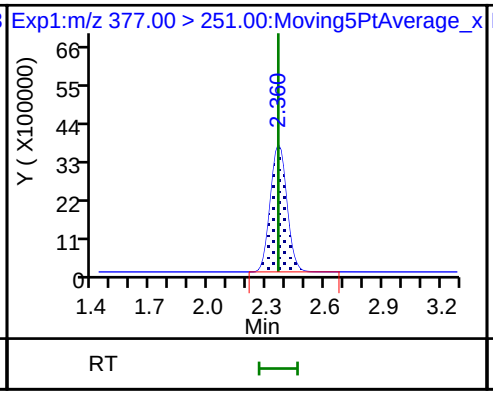
8 Perfluorohexanesulfonic acid



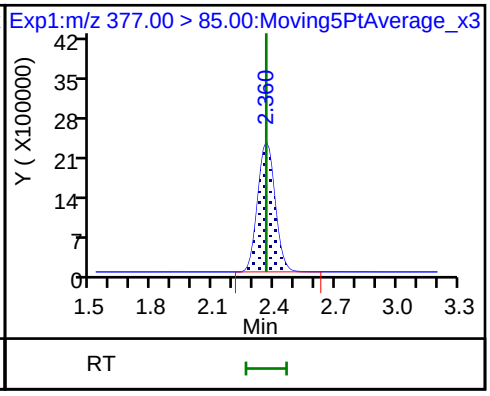
D 11 18O2 PFHxS



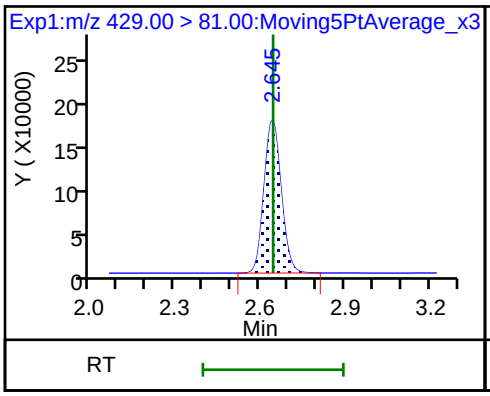
65 Adona



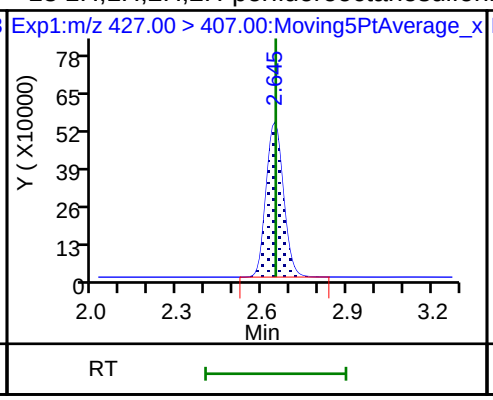
65 Adona



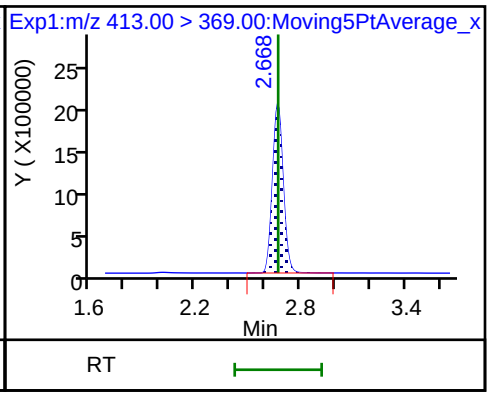
D 12 M2-6:2FTS



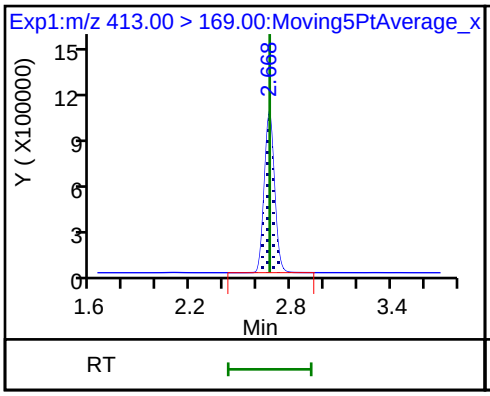
13 1H,1H,2H,2H-perfluorooctanesulfoni



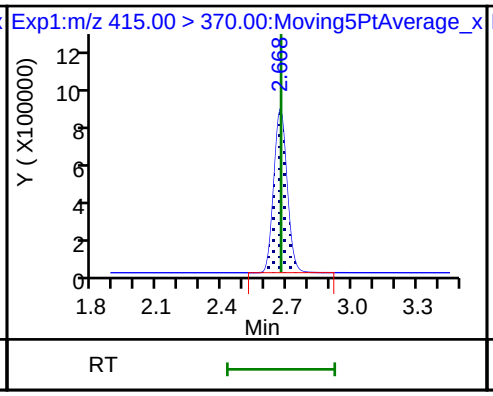
15 Perfluorooctanoic acid



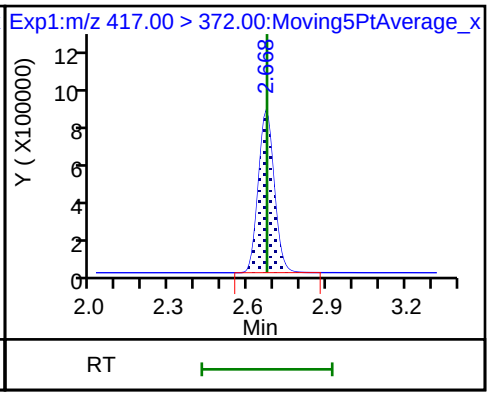
15 Perfluorooctanoic acid



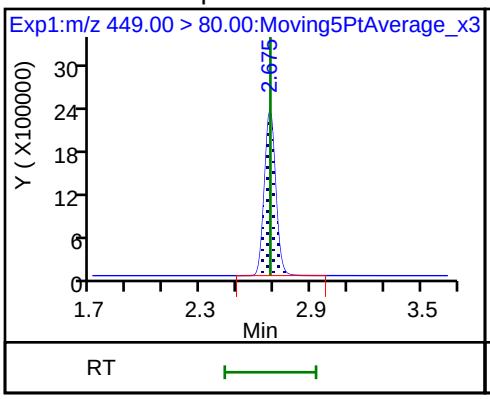
* 62 13C2-PFOA



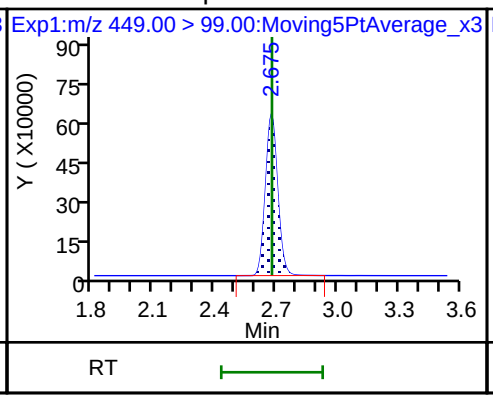
D 14 13C4 PFOA



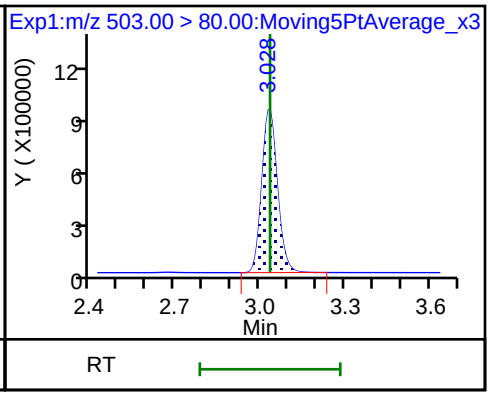
16 Perfluoroheptanesulfonic acid



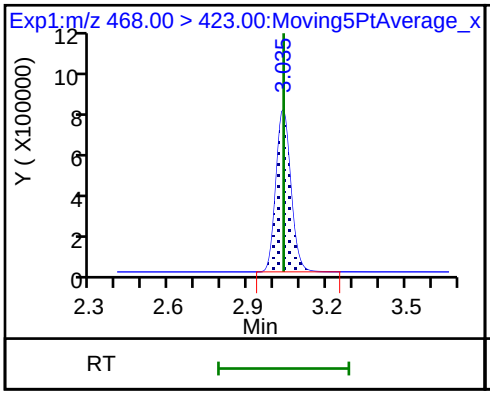
16 Perfluoroheptanesulfonic acid



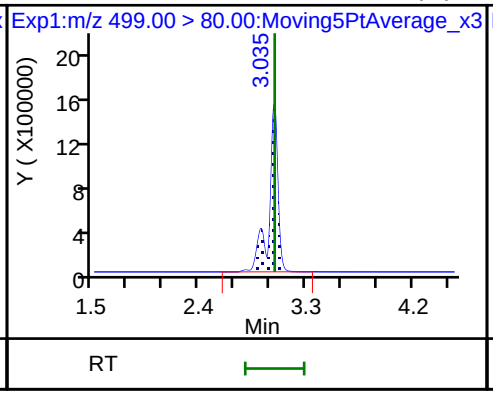
D 18 13C4 PFOS



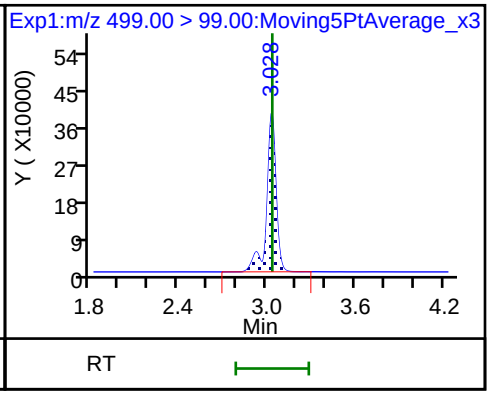
D 19 13C5 PFNA



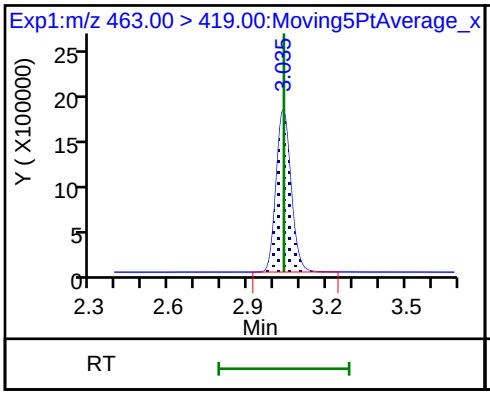
17 Perfluorooctane sulfonic acid (M)



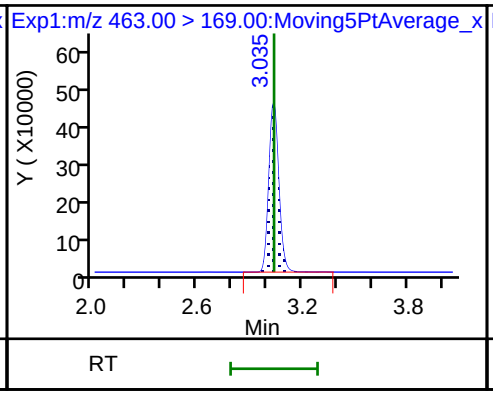
17 Perfluorooctane sulfonic acid



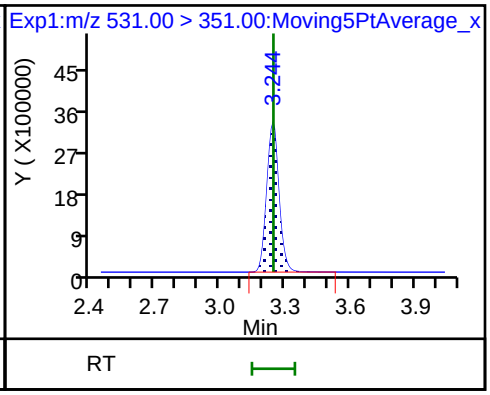
20 Perfluorononanoic acid



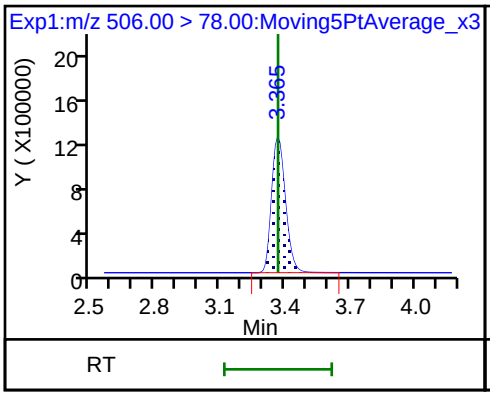
20 Perfluorononanoic acid



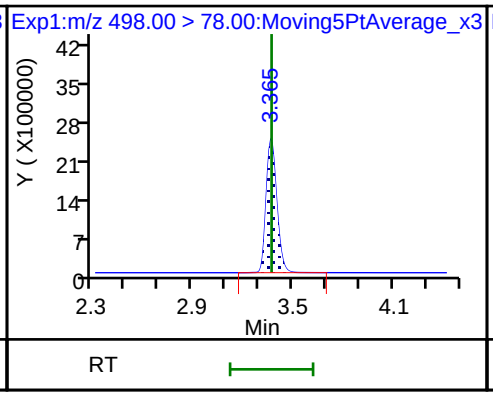
69 9-Chlorohexadecafluoro-3-oxanonane



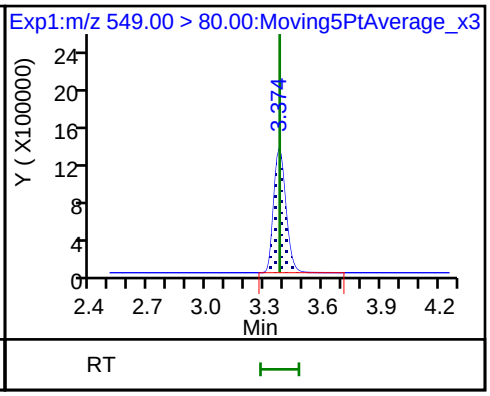
D 21 13C8 FOSA



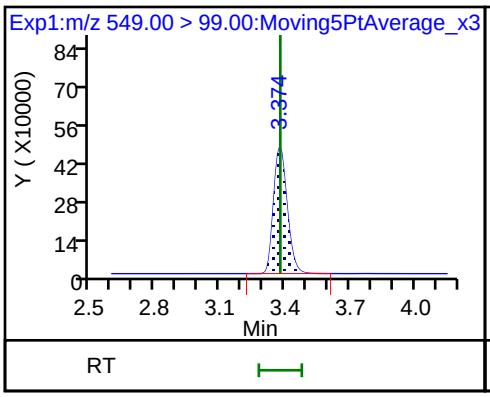
22 Perfluorooctane Sulfonamide



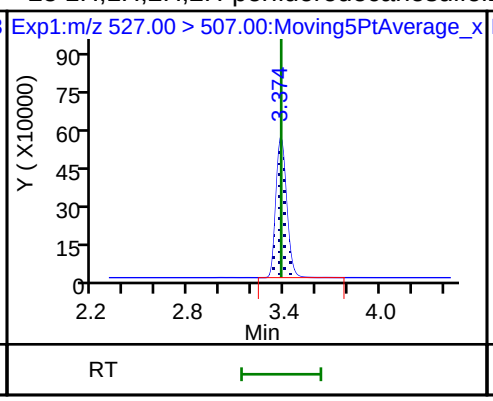
68 Perfluorononanesulfonic acid



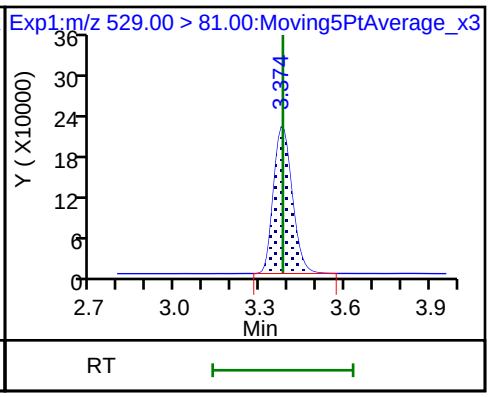
68 Perfluorononanesulfonic acid



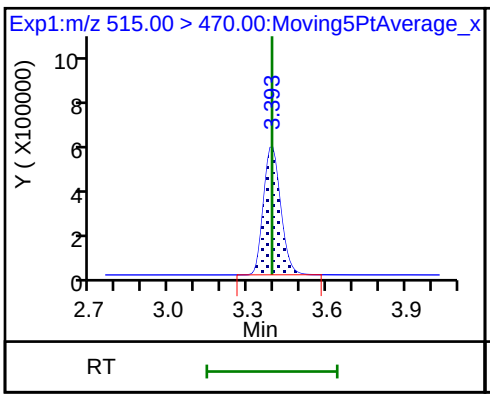
25 1H,1H,2H,2H-perfluorodecanesulfon



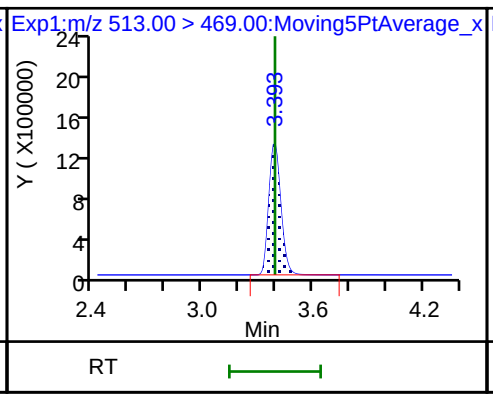
D 26 M2-8:2FTS



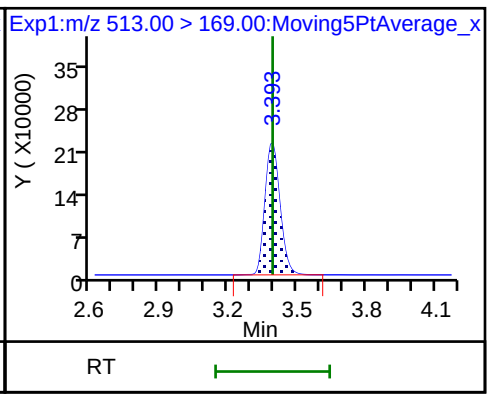
D 23 13C2 PFDA



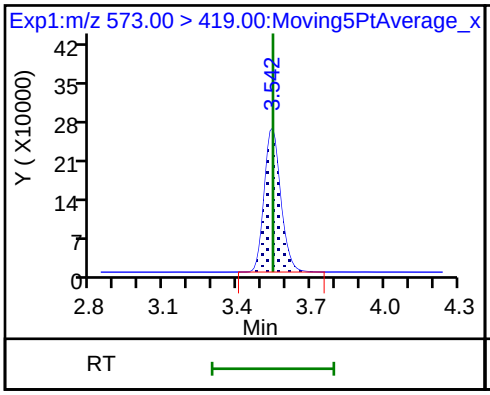
24 Perfluorodecanoic acid



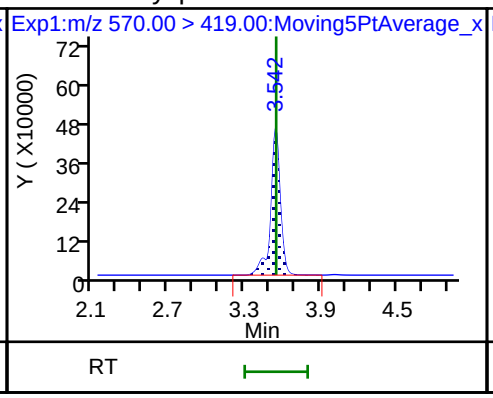
24 Perfluorodecanoic acid



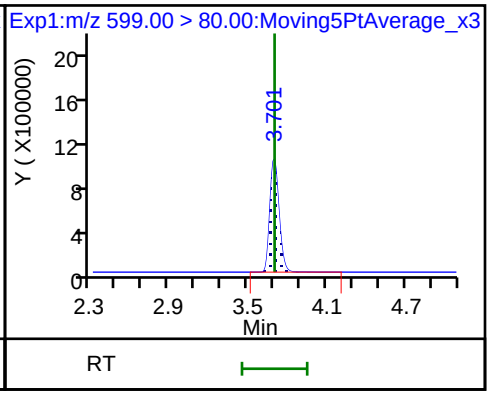
D 27 d3-NMeFOSAA



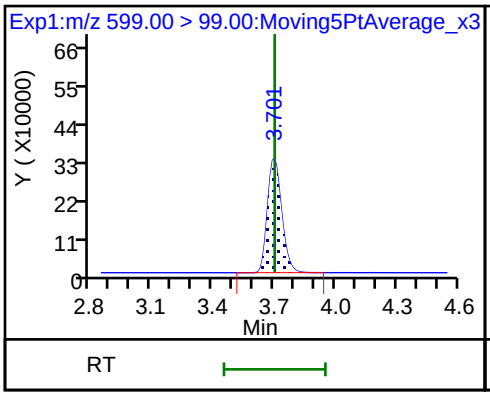
28 N-methyl perfluorooctane sulfonami



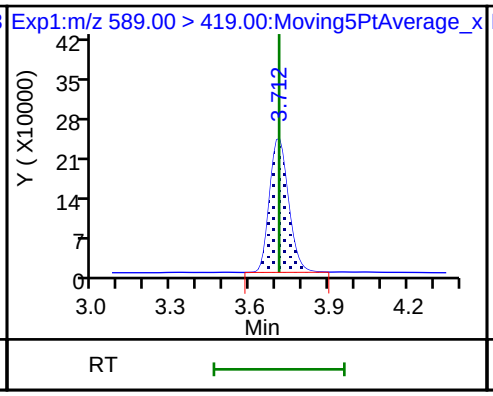
29 Perfluorodecane Sulfonic acid



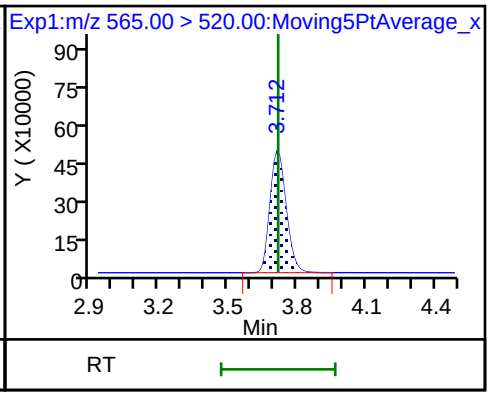
29 Perfluorodecane Sulfonic acid



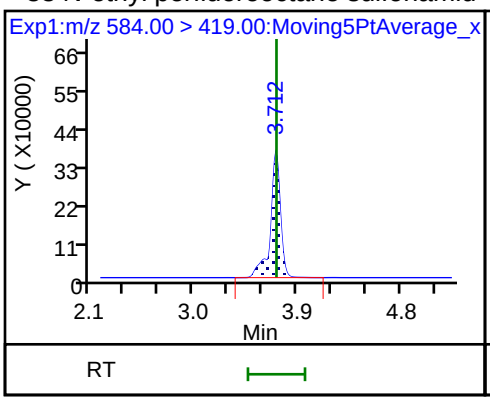
D 32 d5-NEtFOSAA



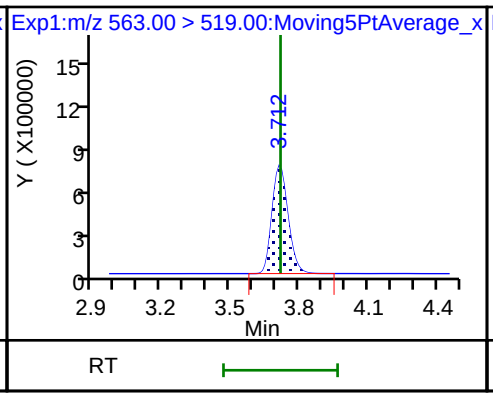
D 30 13C2 PFUnA



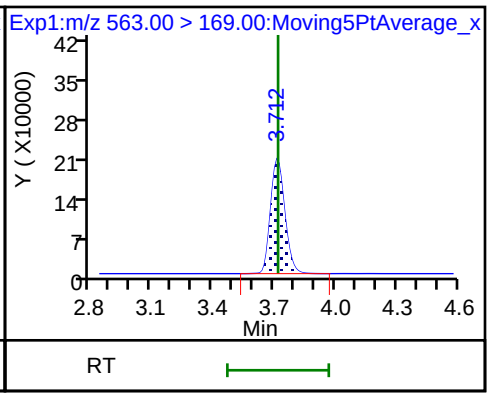
33 N-ethyl perfluorooctane sulfonamid



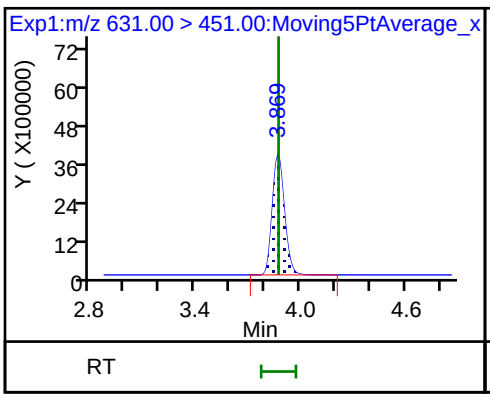
31 Perfluoroundecanoic acid



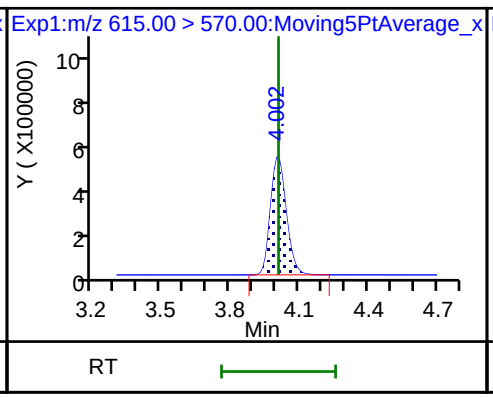
31 Perfluoroundecanoic acid



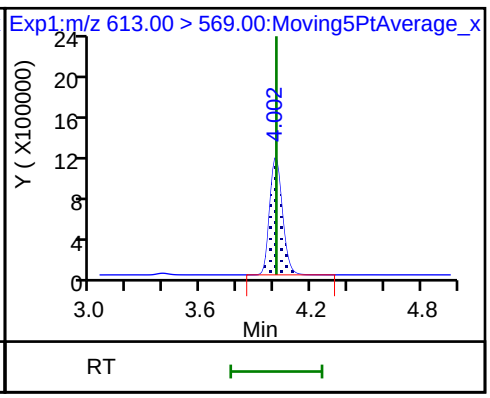
66 11-Chloroeicosafluoro-3-oxaundecan



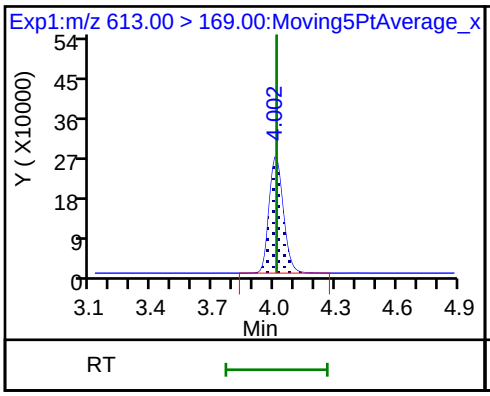
D 36 13C2 PFDoA



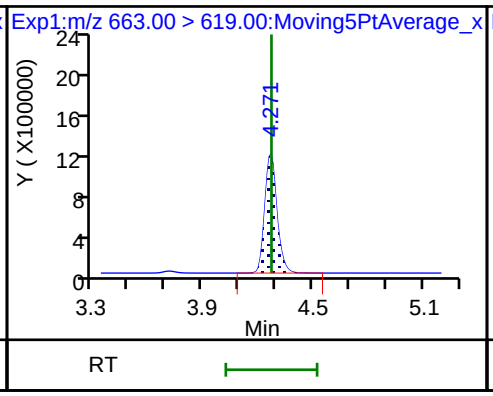
37 Perfluorododecanoic acid



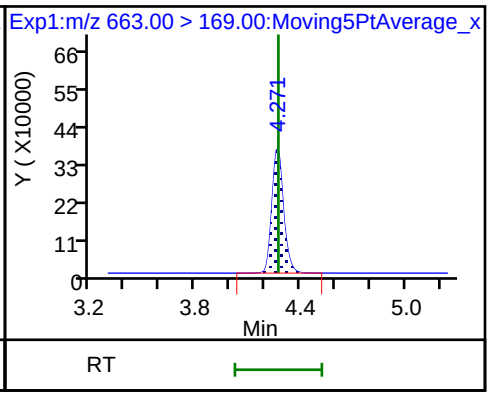
37 Perfluorododecanoic acid



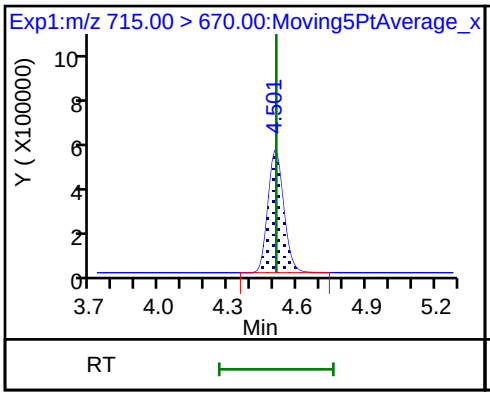
41 Perfluorotridecanoic acid



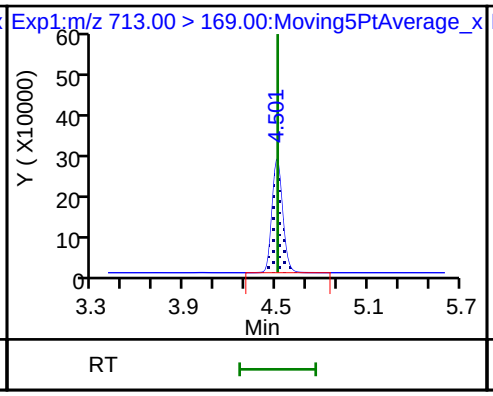
41 Perfluorotridecanoic acid



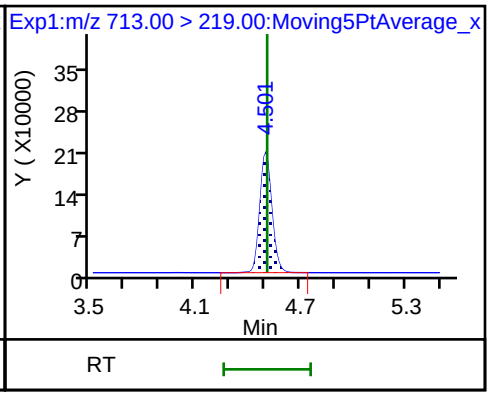
D 43 13C2-PFTeDA



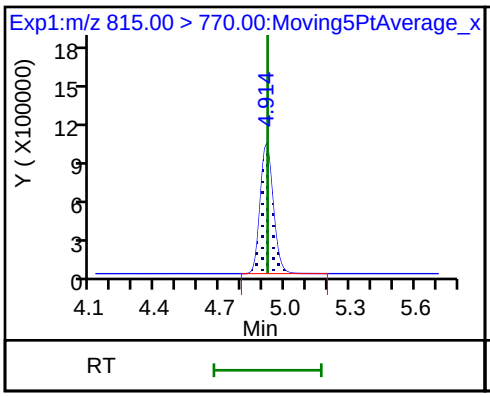
42 Perfluorotetradecanoic acid



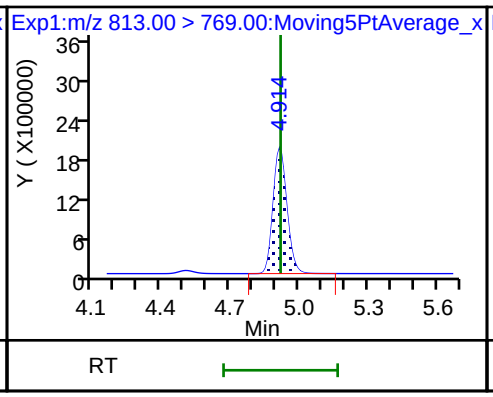
42 Perfluorotetradecanoic acid



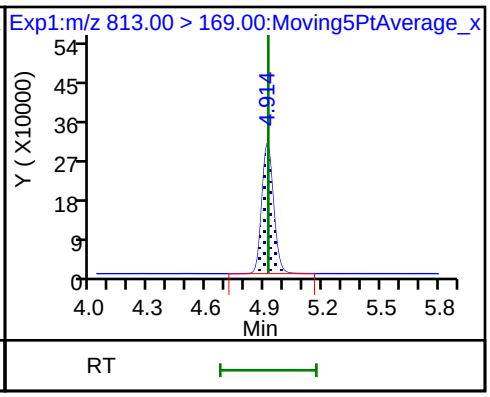
D 44 13C2-PFHxDA



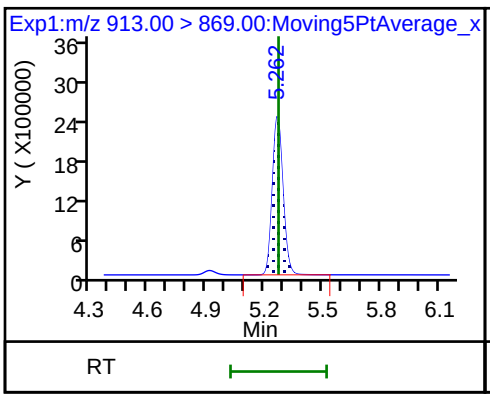
45 Perfluorohexadecanoic acid



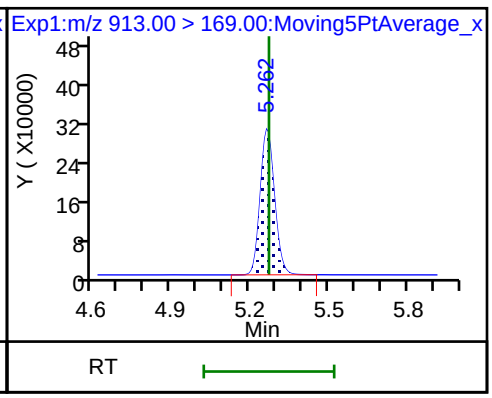
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

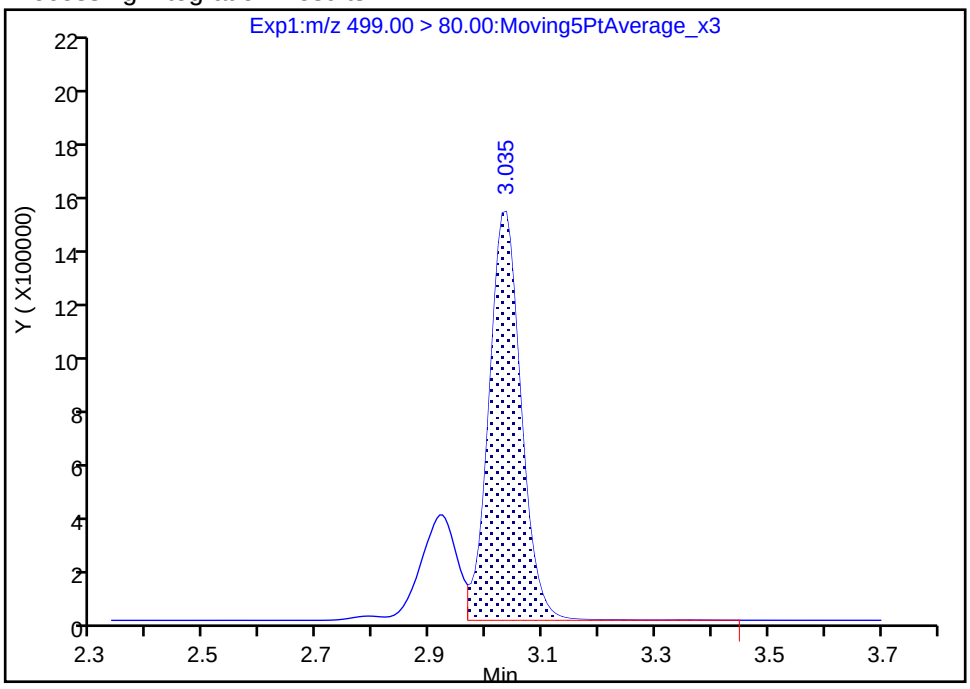
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d
Injection Date: 11-Jul-2018 15:30:51 Instrument ID: A8_N
Lims ID: IC L6 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

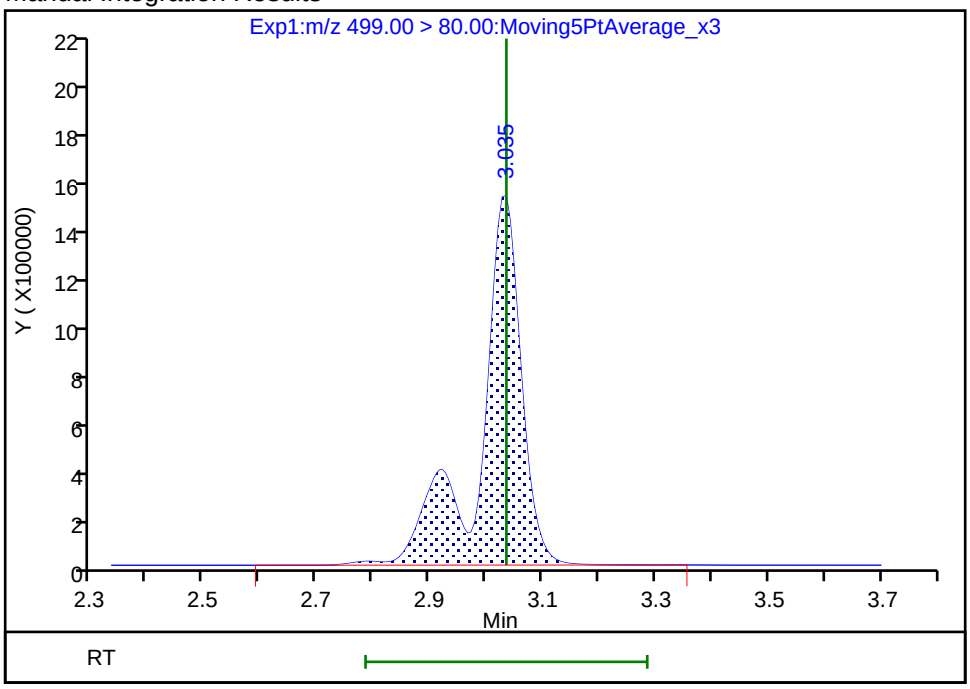
Processing Integration Results

RT: 3.04
Area: 6040692
Amount: 3.698173
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 7822689
Amount: 4.633497
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:16:50
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jul-2018 15:38:42 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:54 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:17:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.430	1.431	-0.001	0.536	5781235	2.84		114	46738	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	22835400	10.0		100	8382	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.702	0.010	1.000	17766142	9.44		94.4	8701	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.702	0.010	0.641	3880280	2.75		110	51803	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.748	0.009	0.658	93739	2.64		113	603	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.751	0.006	1.000	25119744	8.14		92.1	143878	
298.90 > 99.00	1.757	1.751	0.006	1.000	11268668		2.23(1.25-3.74)	92.1	90842	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.962	-0.002	1.116	4685101	8.94		95.7	120229	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.962	-0.002	0.734	476788	2.50		107	7861	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.996	-0.003	0.747	4142603	2.72		109	52582	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.998	-0.005	1.000	16543784	9.70		97.0	39030	
313.00 > 119.00	1.993	1.998	-0.005	1.000	1555324		10.64(5.03-15.10)	97.0	39292	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.022	0.005	1.154	23955798	8.51		90.8	231016	
349.00 > 99.00	2.016	2.022	-0.006	1.147	9657203		2.48(1.36-4.07)	90.8	85549	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	0.785	310846	2.86		115	9564	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	3276527	9.93		99.3	16809	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.869	3701454	2.63		105	41327	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	16011091	9.35		93.5	22967	
363.00 > 169.00	2.321	2.319	0.002	1.000	6469605		2.47(1.13-3.40)	93.5	37203	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	20622639	8.72		95.8	27789	
399.00 > 99.00	2.334	2.332	0.002	1.000	7136072		2.89(1.50-4.49)	95.8	21998	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.874	4872001	2.45		103	48134	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.779	37073934	7.05		74.9	260552	
377.00 > 85.00	2.360	2.360	0.0	0.779	24804188		1.49(0.84-2.53)	74.9	72896	
D 12 M2-6:2FTS										
429.00 > 81.00	2.638	2.645	-0.007	0.988	704932	2.34		98.5	9224	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.638	2.648	-0.010	1.000	4726825	10.2		107	43601	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.670	2.672	-0.002	1.000	16291262	9.05		90.4	9267	
413.00 > 169.00	2.670	2.672	-0.002	1.000	8897459		1.83(0.84-2.52)	90.4	24139	
* 62 13C2-PFOA										
415.00 > 370.00	2.670	2.672	-0.002		3749283	2.50			40966	
D 14 13C4 PFOA										
417.00 > 372.00	2.670	2.672	-0.002	1.000	3653899	2.55		102	33275	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.677	2.678	-0.001	0.883	18718055	8.70		91.4	123136	
449.00 > 99.00	2.677	2.678	-0.001	0.883	5255453		3.56(1.94-5.82)	91.4	44840	
D 18 13C4 PFOS										
503.00 > 80.00	3.030	3.034	-0.004	1.135	3902400	2.67		112	14520	
D 19 13C5 PFNA										
468.00 > 423.00	3.030	3.035	-0.005	1.135	3292167	2.57		103	44769	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.030	3.035	-0.005	1.000	16622900	8.98		96.8	45805	
499.00 > 99.00	3.030	3.035	-0.005	1.000	3752707		4.43(2.31-6.93)	96.8	30387	
20 Perfluorononanoic acid										
463.00 > 419.00	3.030	3.036	-0.006	1.000	13910795	9.52		95.2	26218	
463.00 > 169.00	3.030	3.036	-0.006	1.000	3390503		4.10(1.90-5.69)	95.2	43123	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.239	3.245	-0.006	1.069	25098628	8.37		89.8	130574	
D 21 13C8 FOSA										
506.00 > 78.00	3.359	3.367	-0.008	1.258	5176580	2.46		98.3	36605	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.369	3.371	-0.002	1.003	19718955	9.66		96.6	48650	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.369	3.377	-0.008	1.112	11760635	9.29		96.8	59229	
549.00 > 99.00	3.369	3.377	-0.008	1.112	4506833		2.61(1.33-3.97)	96.8	46788	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.378	3.380	-0.002	1.000	4682146	9.80		102	45616	
D 26 M2-8:2FTS										
529.00 > 81.00	3.378	3.380	-0.002	1.265	887172	2.01		84.1	13566	
D 23 13C2 PFDA										
515.00 > 470.00	3.387	3.391	-0.004	1.269	2747254	2.44		97.7	29354	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.387	3.392	-0.005	1.000	11148372	9.67		96.7	46551	
513.00 > 169.00	3.387	3.392	-0.005	1.000	2093801		5.32(2.36-7.09)	96.7	35818	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.537	3.544	-0.007	1.325	1276287	2.77		111	18519	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.546	3.548	-0.002	1.003	5272635	10.5		105	26104	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.696	3.701	-0.005	1.220	10109747	9.22		95.7	233743	
599.00 > 99.00	3.696	3.701	-0.005	1.220	3655780		2.77(1.39-4.16)	95.7	30607	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.707	3.710	-0.003	1.389	1167600	2.47		98.9	3307	
D 30 13C2 PFUnA										
565.00 > 520.00	3.718	3.716	0.002	1.393	2308936	2.46		98.3	35962	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.718	3.718	0.0	1.003	4325460	10.5		105	77837	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.718	3.718	0.0	1.000	7405393	9.78		97.8	31141	
563.00 > 169.00	3.718	3.718	0.0	1.000	1896631		3.90(2.12-6.36)	97.8	38242	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.865	3.874	-0.009	1.275	33050828	7.63		81.0	319283	
D 36 13C2 PFDoA										
615.00 > 570.00	4.008	4.009	-0.001	1.501	2588991	2.66		106	20112	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.008	4.011	-0.003	1.000	11295646	9.99		99.9	7110	
613.00 > 169.00	4.008	4.011	-0.003	1.000	2749190		4.11(2.13-6.40)	99.9	27189	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.066	10874073	9.83		98.3	5262	
663.00 > 169.00	4.271	4.273	-0.002	1.066	3405769		3.19(1.25-3.76)	98.3	29341	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.686	2753301	2.72		109	11657	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	2903345	10.1		101	18043	
713.00 > 219.00	4.501	4.508	-0.007	1.000	2052712		1.41(0.71-2.13)	101	16519	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.841	4200183	2.61		104	13126	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	15144158	9.46		94.6	3241	
813.00 > 169.00	4.914	4.918	-0.004	1.000	2640854		5.73(2.86-8.58)	94.6	12585	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.271	-0.008	1.071	17950029	9.35		93.5	2884	
913.00 > 169.00	5.263	5.271	-0.008	1.071	2356290		7.62(3.83-11.48)	93.5	10762	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL7_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:56 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Injection Date: 11-Jul-2018 15:38:42 Instrument ID: A8_N

Lims ID: IC L7 Full

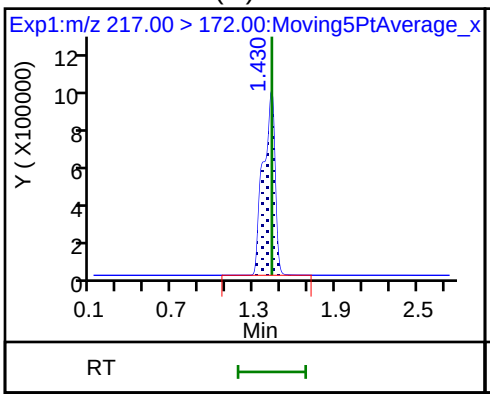
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

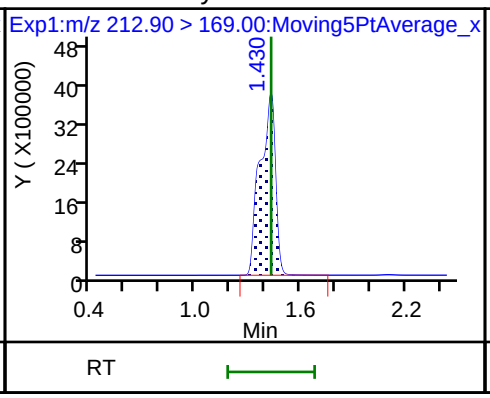
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

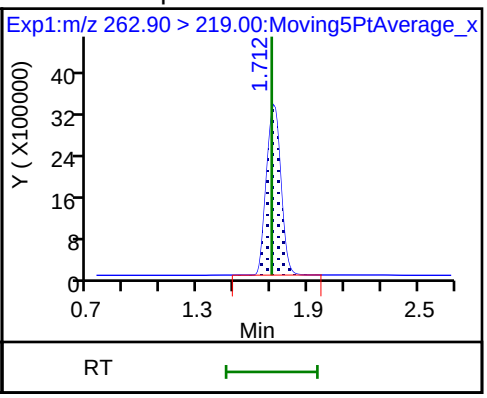
D 1 13C4 PFBA (M)



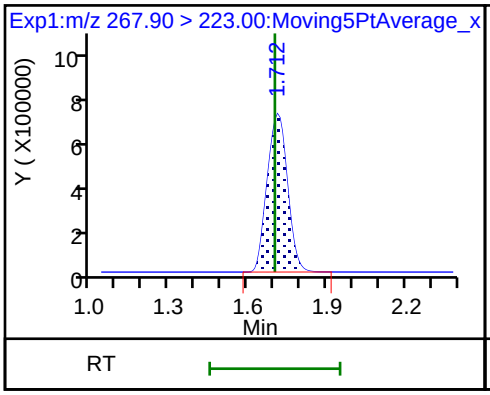
2 Perfluorobutyric acid



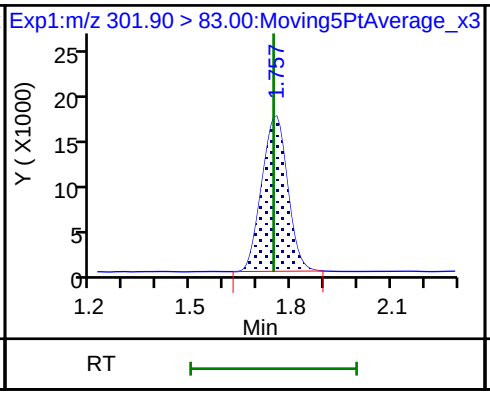
4 Perfluoropentanoic acid



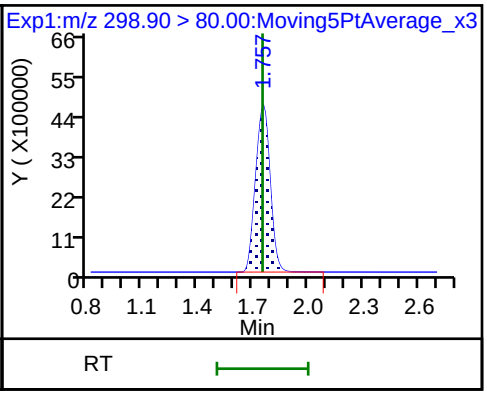
D 3 13C5-PFPeA



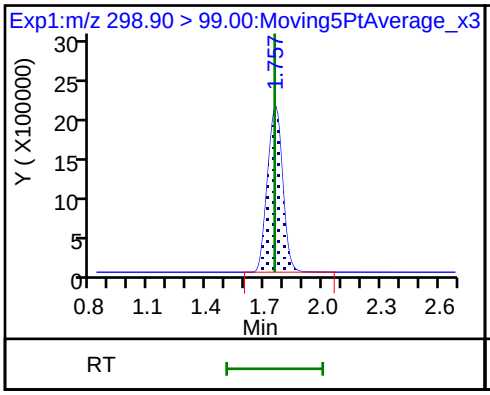
D 47 13C3-PFBS



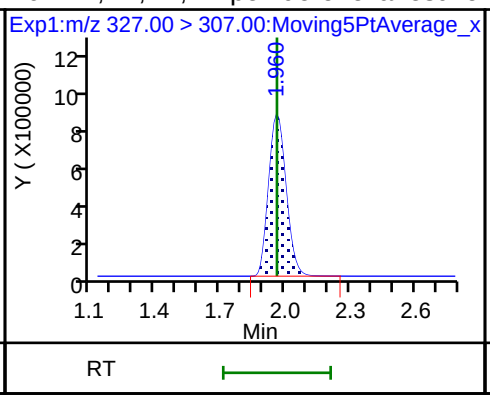
5 Perfluorobutanesulfonic acid



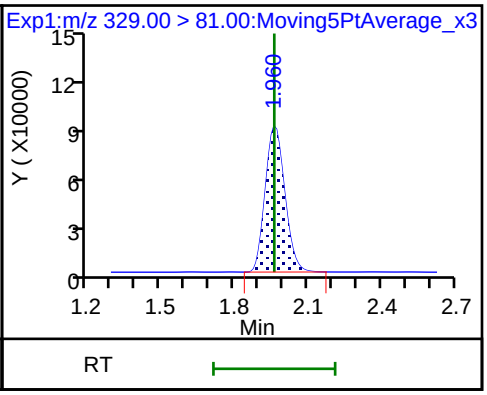
5 Perfluorobutanesulfonic acid



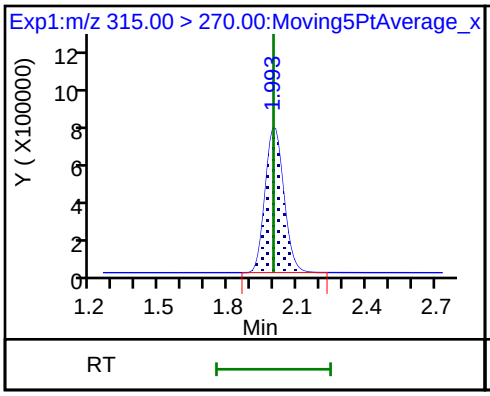
61 1H,1H,2H,2H-perfluorohexanesulfon



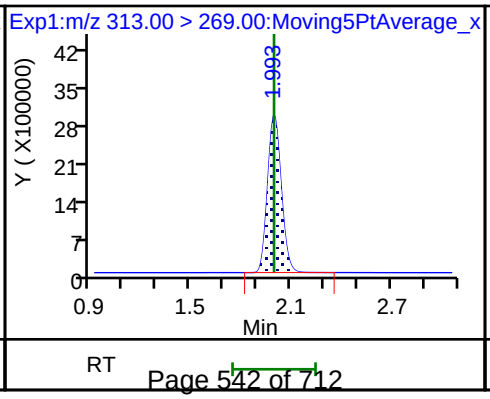
D 60 M2-4:2FTS



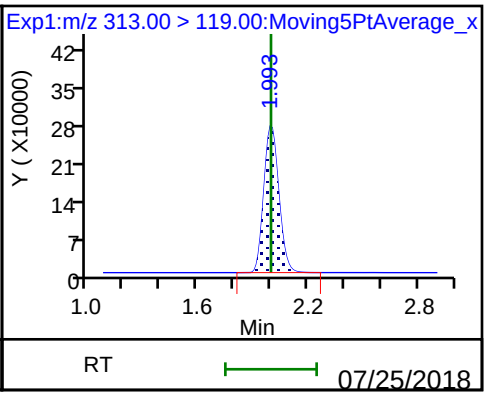
D 7 13C2 PFHxA



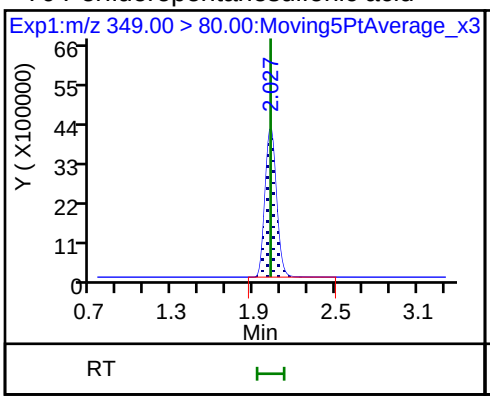
6 Perfluorohexanoic acid



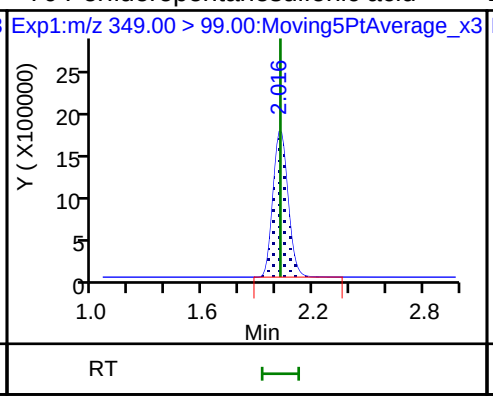
6 Perfluorohexanoic acid



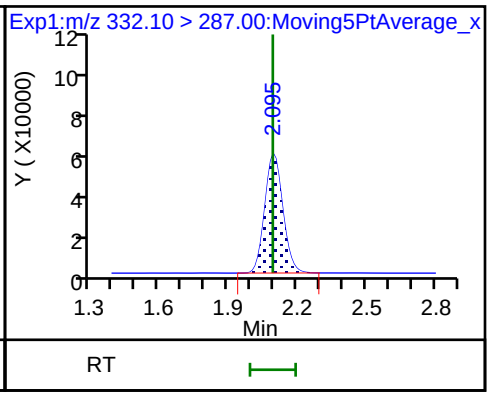
70 Perfluoropentanesulfonic acid



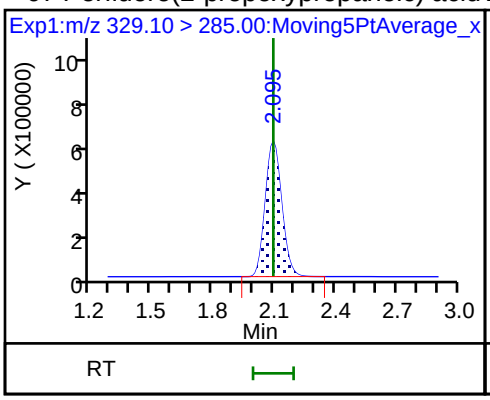
70 Perfluoropentanesulfonic acid



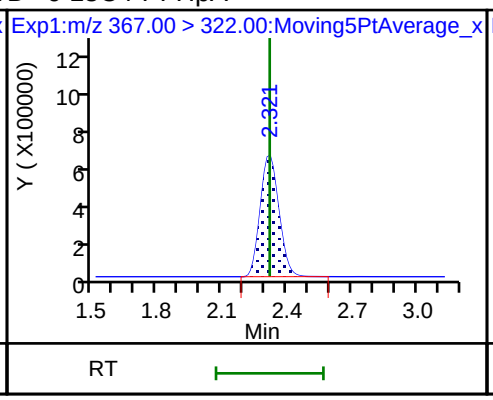
D 64 13C3 HFPO-DA



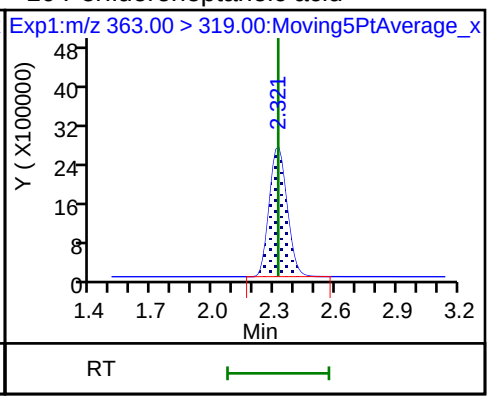
67 Perfluoro(2-propoxypropanoic) acid



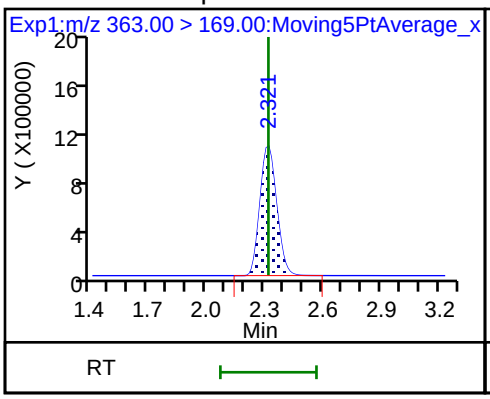
D 9 13C4-PFHpA



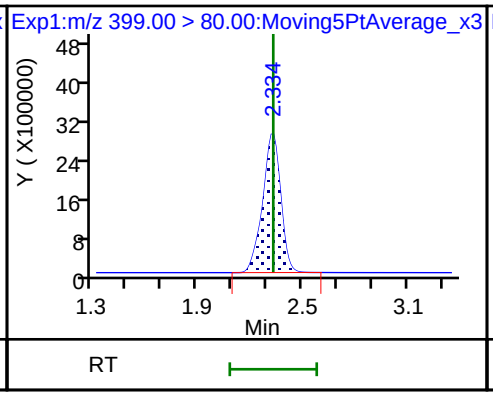
10 Perfluoroheptanoic acid



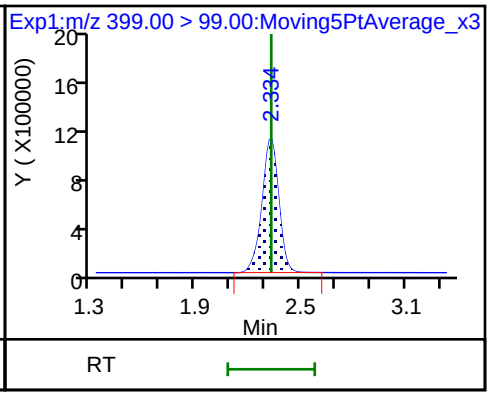
10 Perfluoroheptanoic acid



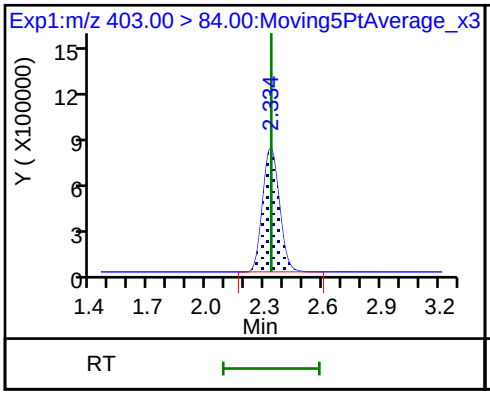
8 Perfluorohexanesulfonic acid



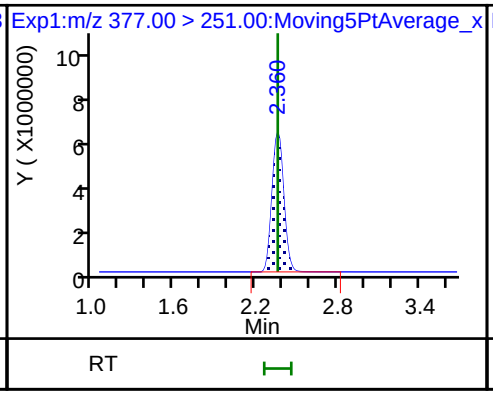
8 Perfluorohexanesulfonic acid



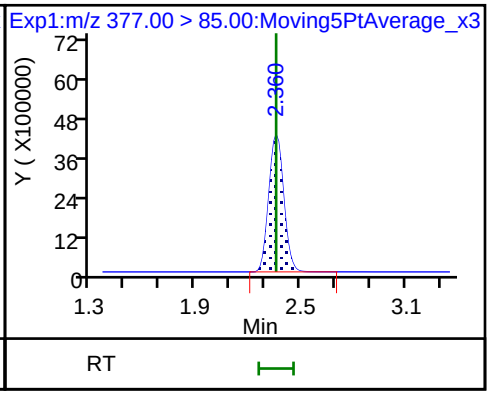
D 11 18O2 PFHxS



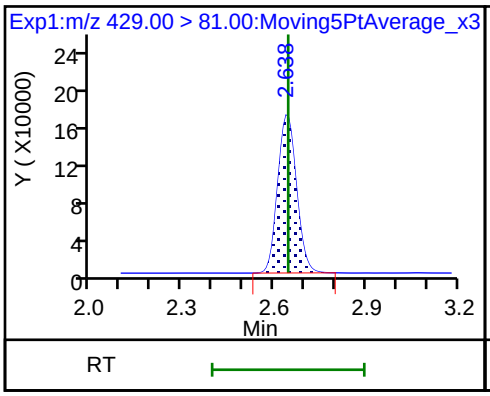
65 Adona



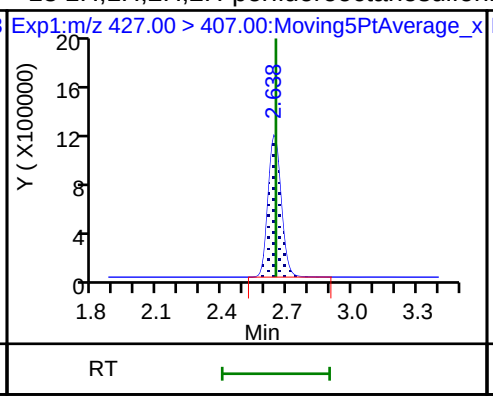
65 Adona



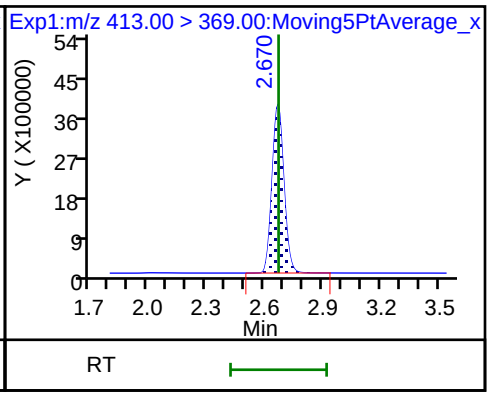
D 12 M2-6:2FTS



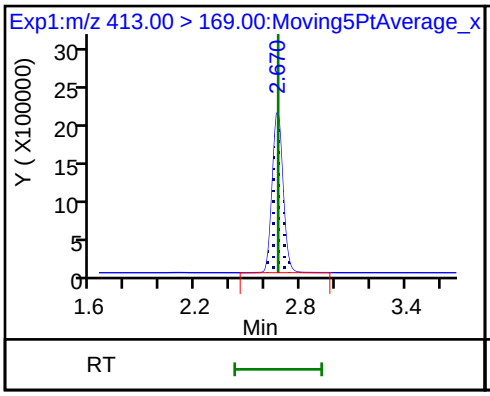
13 1H,1H,2H,2H-perfluorooctanesulfoni



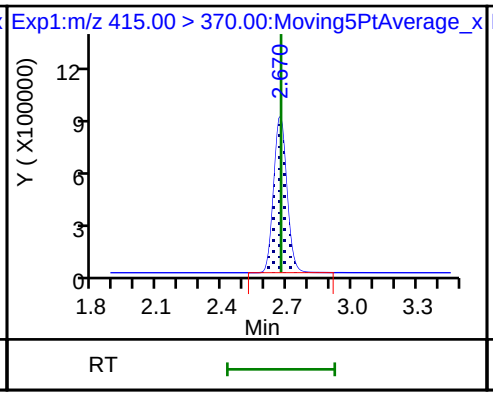
15 Perfluorooctanoic acid



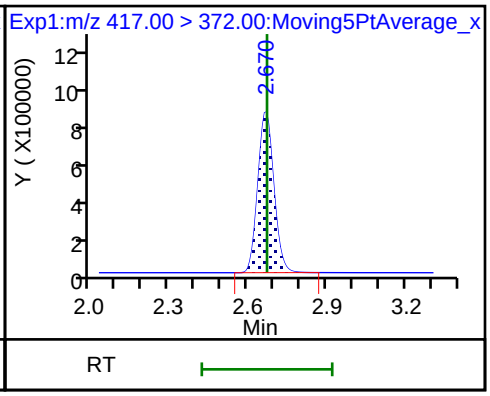
15 Perfluorooctanoic acid



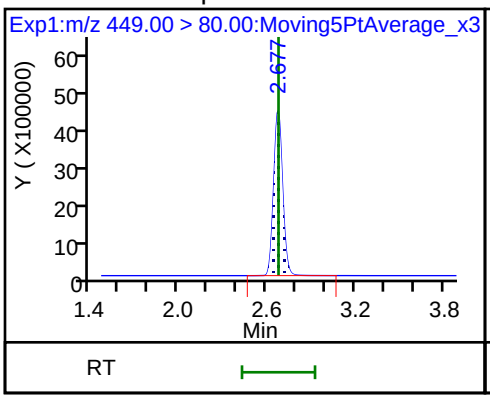
* 62 13C2-PFOA



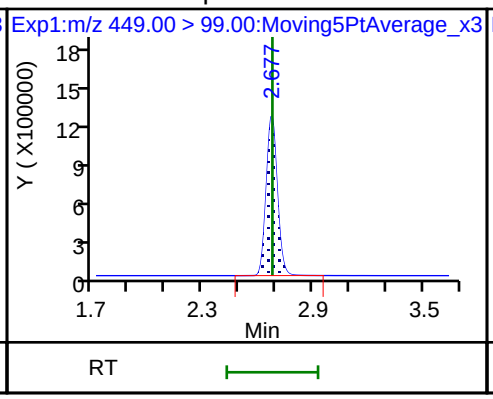
D 14 13C4 PFOA



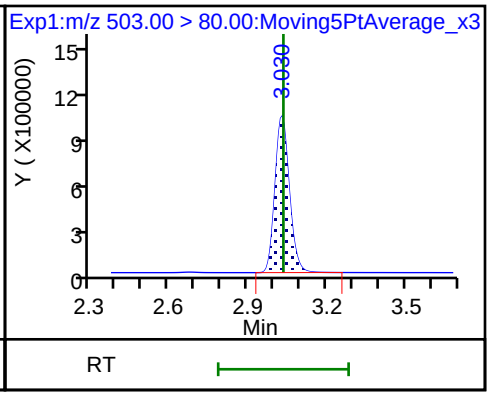
16 Perfluoroheptanesulfonic acid



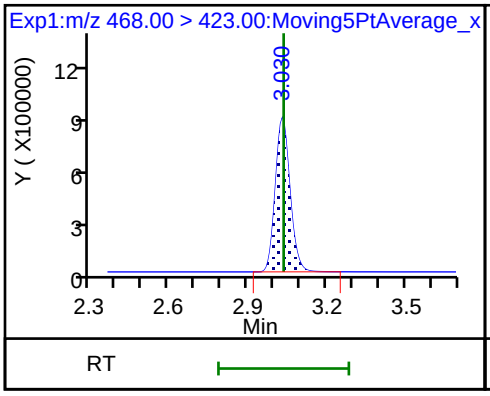
16 Perfluoroheptanesulfonic acid



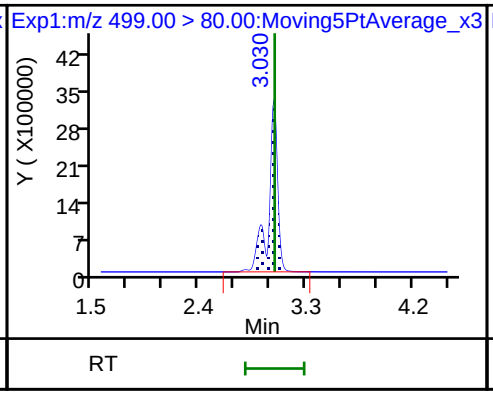
D 18 13C4 PFOS



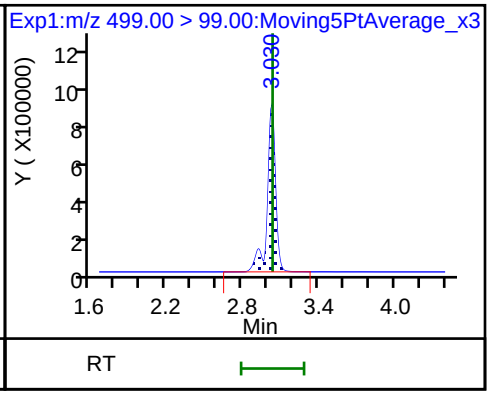
D 19 13C5 PFNA



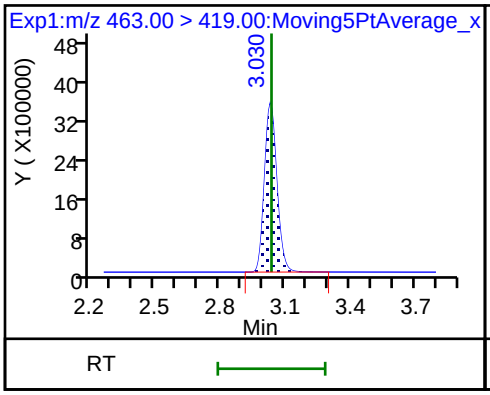
17 Perfluorooctane sulfonic acid



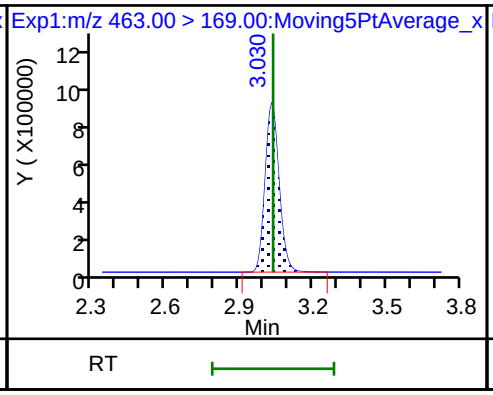
17 Perfluorooctane sulfonic acid



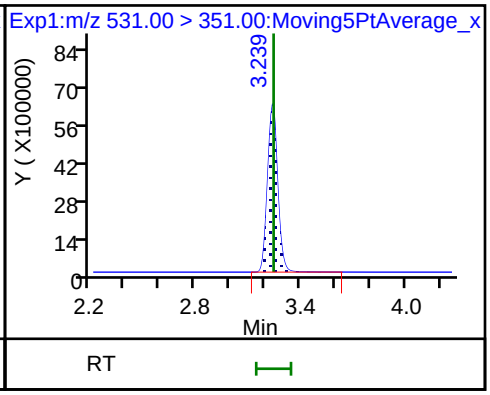
20 Perfluorononanoic acid



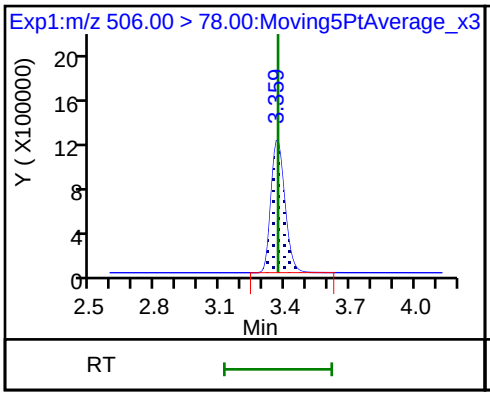
20 Perfluorononanoic acid



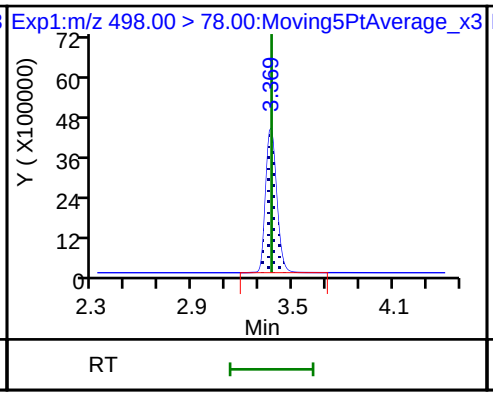
69 9-Chlorohexadecafluoro-3-oxanonane



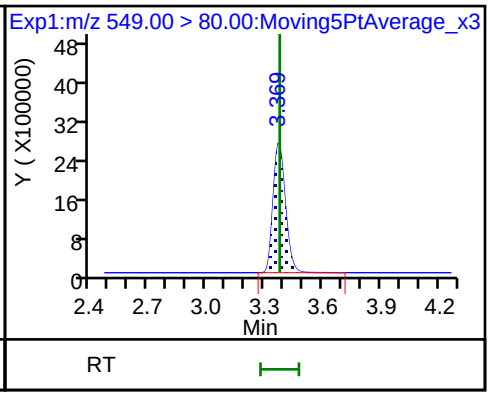
D 21 13C8 FOSA



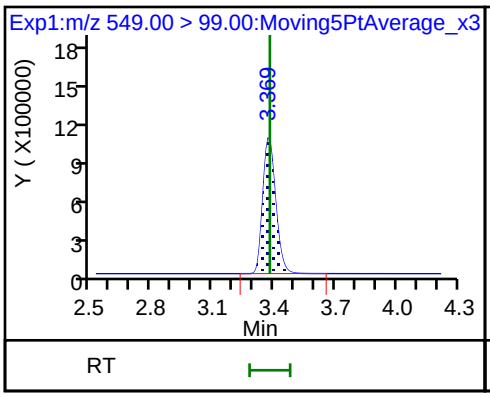
22 Perfluorooctane Sulfonamide



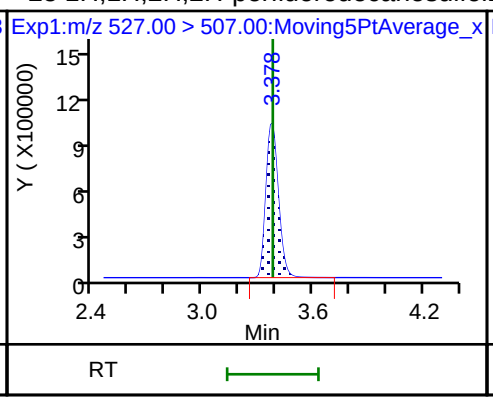
68 Perfluorononanesulfonic acid



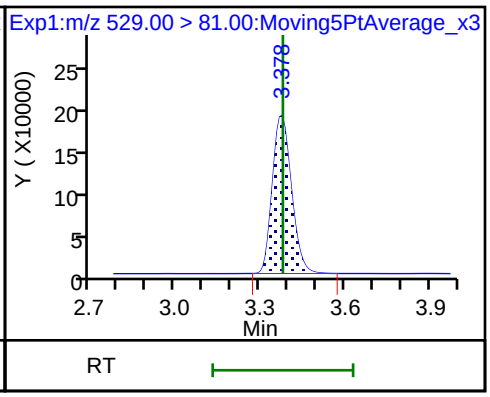
68 Perfluorononanesulfonic acid



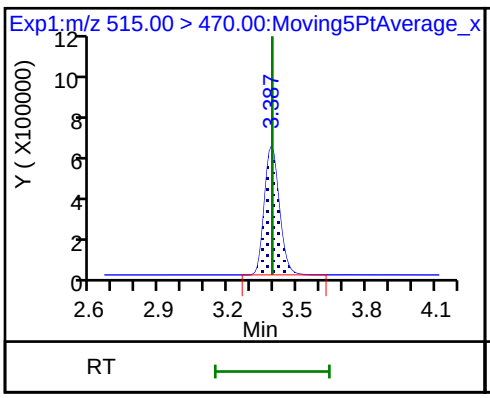
25 1H,1H,2H,2H-perfluorodecanesulfon



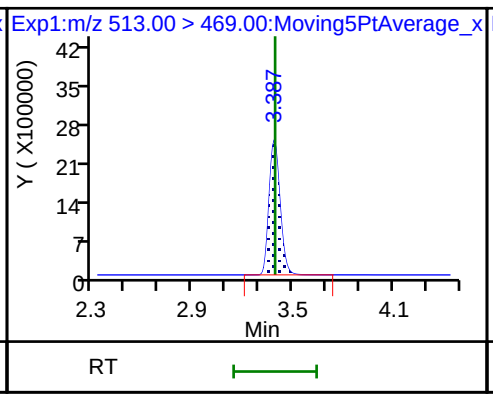
D 26 M2-8:2FTS



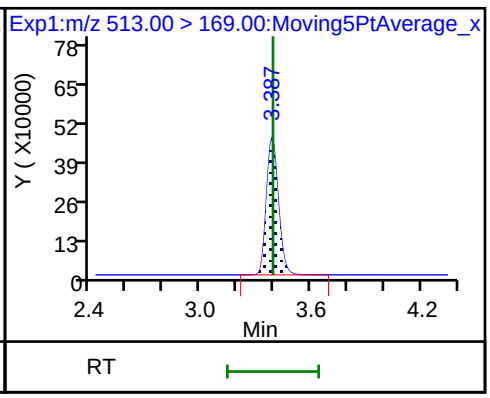
D 23 13C2 PFDA



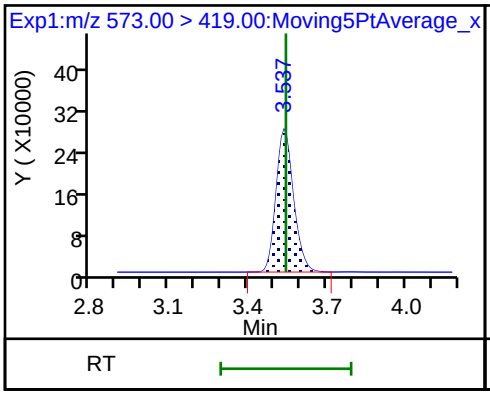
24 Perfluorodecanoic acid



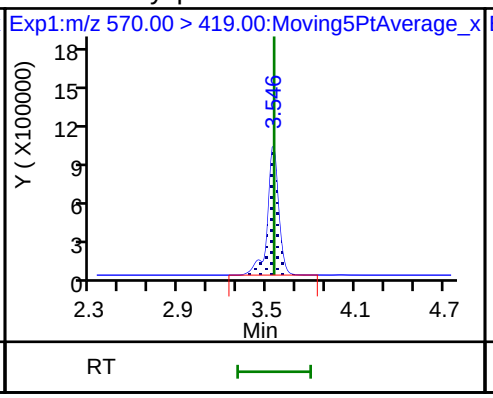
24 Perfluorodecanoic acid



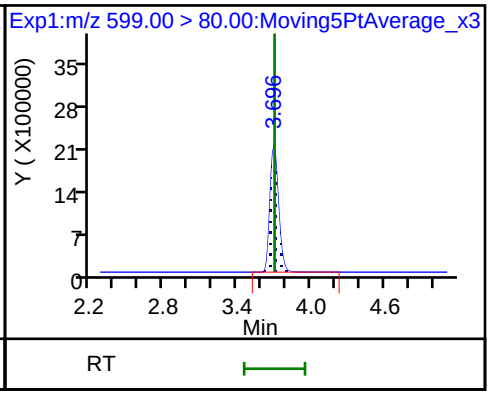
D 27 d3-NMeFOSAA



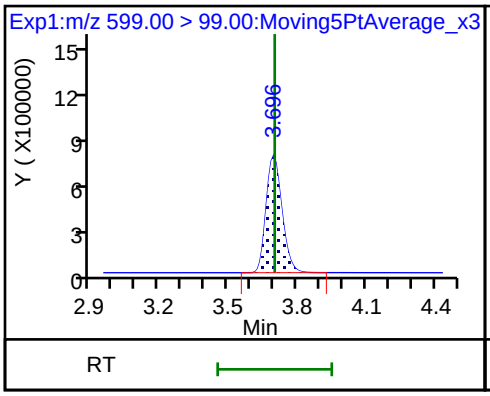
28 N-methyl perfluorooctane sulfonami



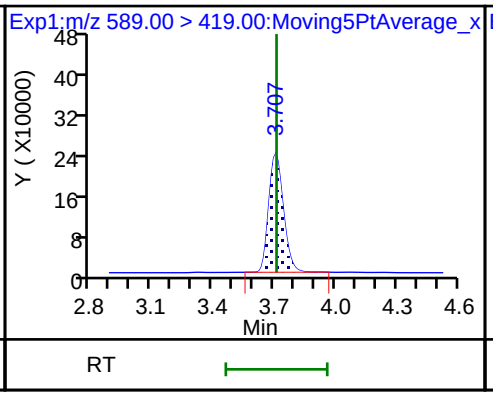
29 Perfluorodecane Sulfonic acid



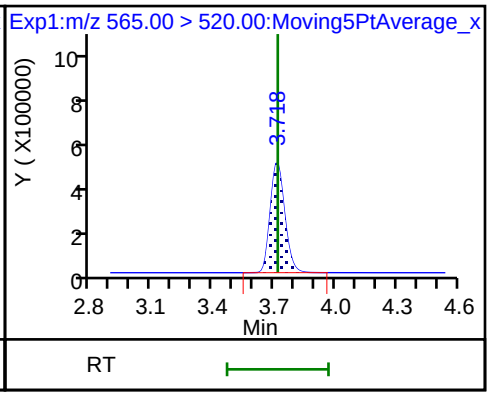
29 Perfluorodecane Sulfonic acid



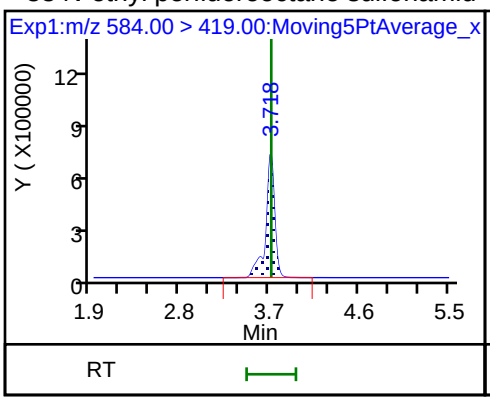
D 32 d5-NEtFOSAA



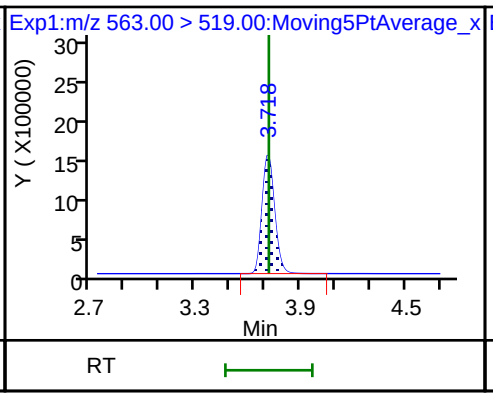
D 30 13C2 PFUnA



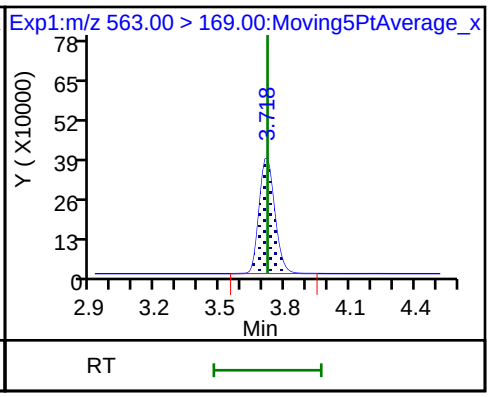
33 N-ethyl perfluorooctane sulfonamid



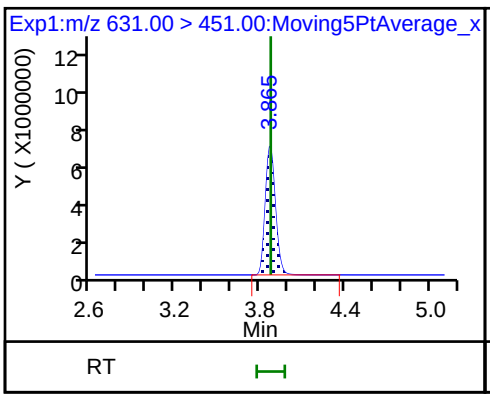
31 Perfluoroundecanoic acid



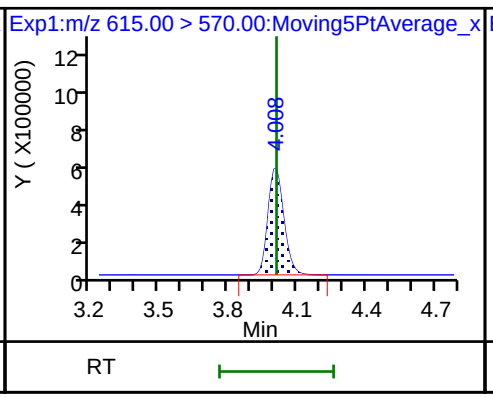
31 Perfluoroundecanoic acid



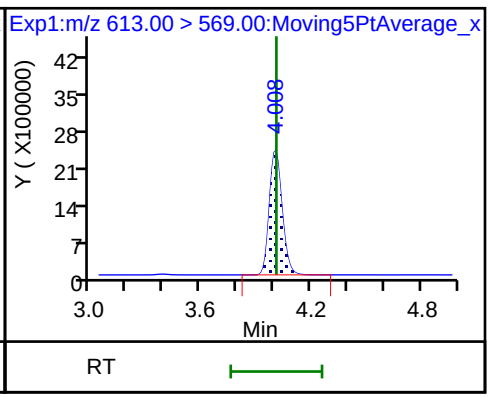
66 11-Chloroeicosafluoro-3-oxaundecan



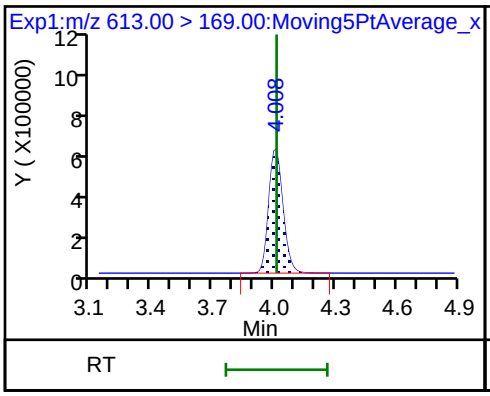
D 36 13C2 PFDoA



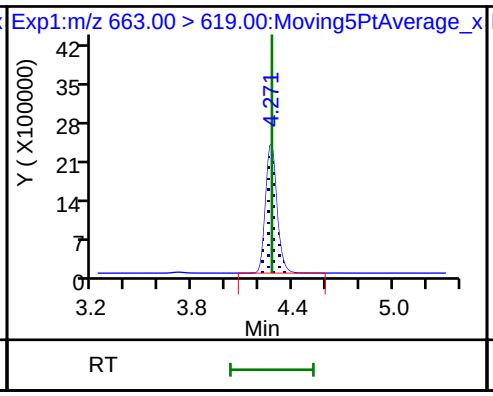
37 Perfluorododecanoic acid



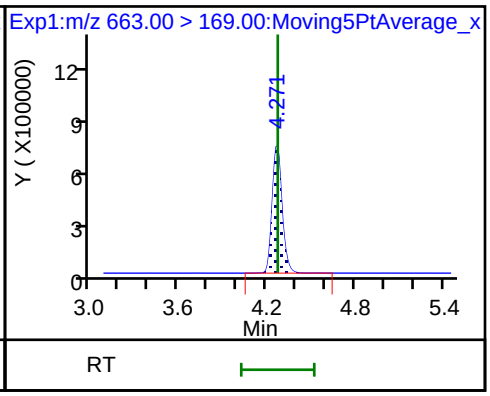
37 Perfluorododecanoic acid



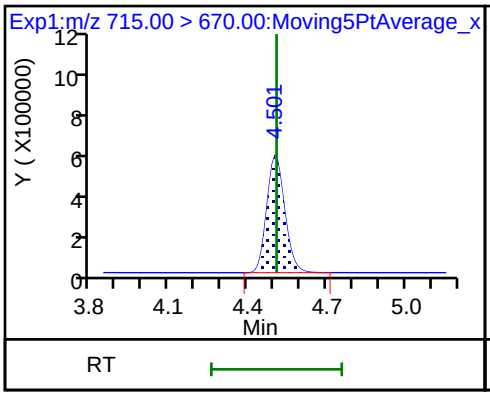
41 Perfluorotridecanoic acid



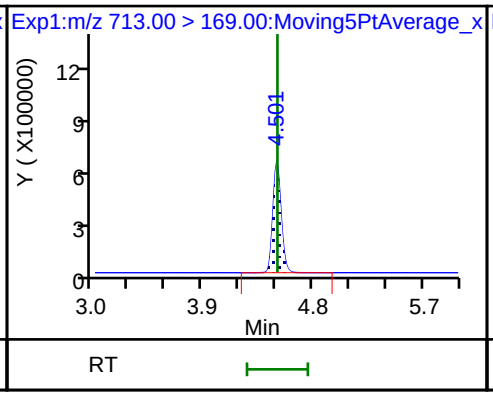
41 Perfluorotridecanoic acid



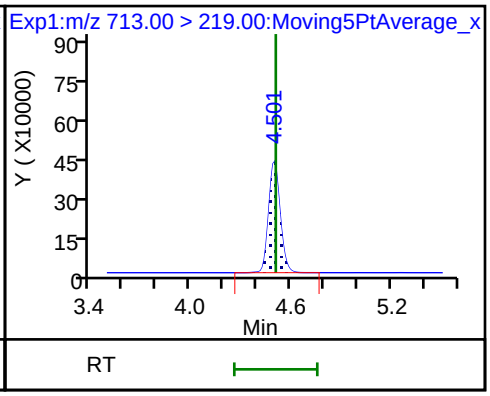
D 43 13C2-PFTeDA



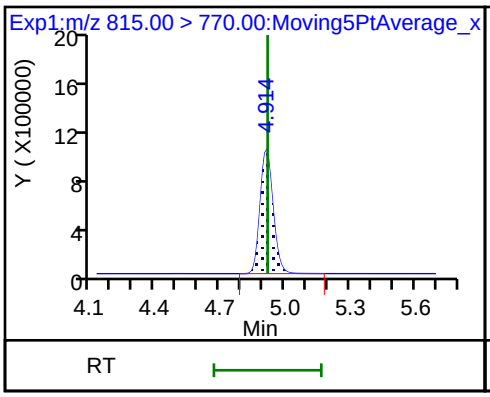
42 Perfluorotetradecanoic acid



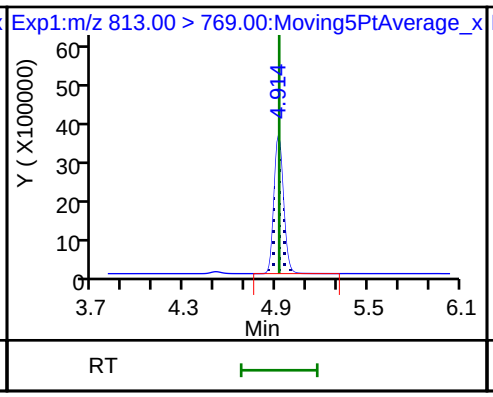
42 Perfluorotetradecanoic acid



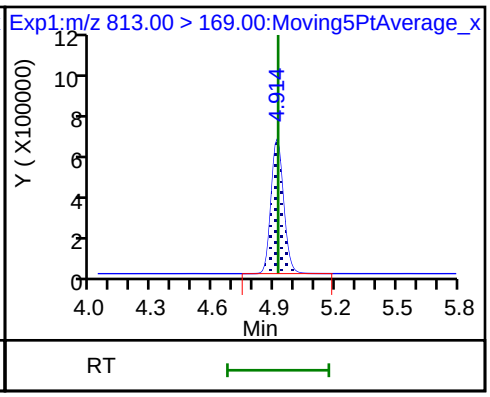
D 44 13C2-PFHxDA



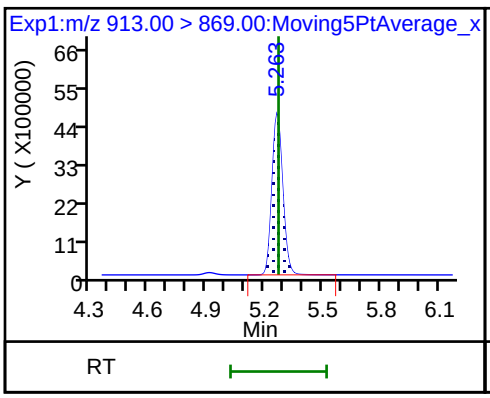
45 Perfluorohexadecanoic acid



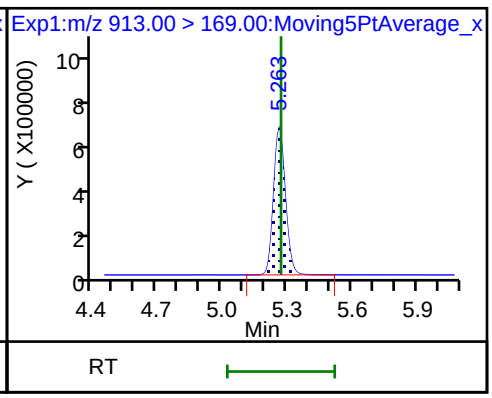
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

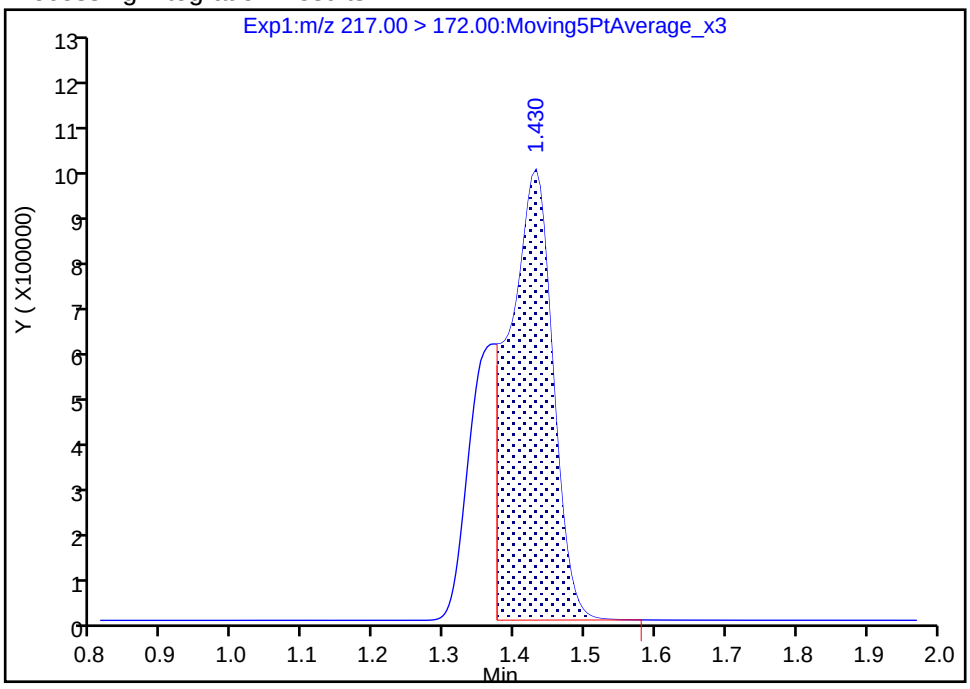
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d
Injection Date: 11-Jul-2018 15:38:42 Instrument ID: A8_N
Lims ID: IC L7 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

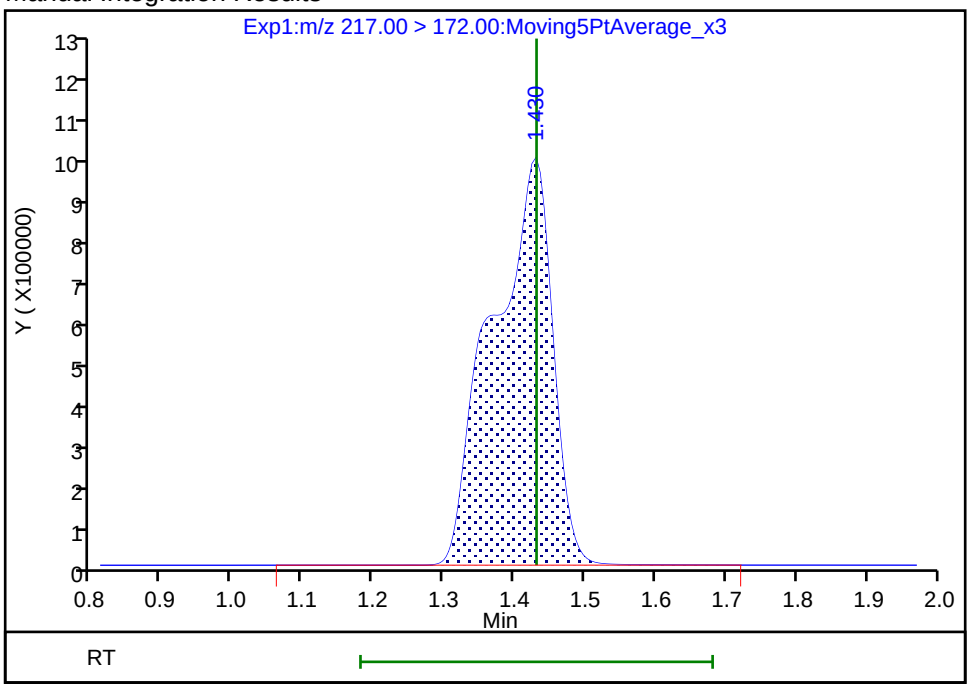
Processing Integration Results

RT: 1.43
Area: 4154586
Amount: 2.158190
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 5781235
Amount: 2.843032
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:17:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-232544/10 Calibration Date: 07/05/2018 12:02

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.05LLICALAAA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	1.001		2.45	2.50	-2.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.184		2.49	2.50	-0.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	76.74		2.24	2.21	1.2	50.0
4:2 FTS	AveID	15.68	16.31		2.43	2.34	4.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.050		2.58	2.50	3.2	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	65.82		2.38	2.35	1.5	50.0
HFPO-DA (GenX)	AveID	2.299	2.197		2.39	2.50	-4.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.075		2.38	2.50	-4.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.048		2.06	2.28	-9.4	40.0
ADONA	AveID	3.706	3.546		2.39	2.50	-4.3	50.0
6:2 FTS	AveID	1.567	1.416		2.14	2.37	-9.6	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.151		2.43	2.50	-2.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.361		2.42	2.38	1.6	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.041		2.41	2.50	-3.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.149		2.28	2.32	-1.6	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.891	1.920		2.37	2.33	1.6	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9655		2.43	2.50	-2.6	40.0
8:2 FTS	AveID	1.321	1.229		2.23	2.40	-7.0	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.7722		2.28	2.40	-5.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.069		2.57	2.50	2.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.023		2.49	2.50	-0.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.7288		2.44	2.41	1.3	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8710		2.42	2.50	-3.4	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8752		2.57	2.50	3.0	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.884	3.013		2.46	2.36	4.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.060		2.40	2.50	-3.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.075		2.19	2.50	-12.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2671		2.47	2.50	-1.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9846		2.57	2.50	2.7	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-232544/10 Calibration Date: 07/05/2018 12:02

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.05LLICALAAA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.146		2.46	2.50	-1.5	50.0
13C4 PFBA	Ave	1.384	1.368		2.47	2.50	-1.2	50.0
13C5 PFPeA	Ave	1.025	0.9902		2.42	2.50	-3.3	50.0
13C3-PFBS	Ave	0.0245	0.0242		2.30	2.33	-1.1	50.0
M2-4:2FTS	Ave	0.1575	0.1616		2.39	2.34	2.6	50.0
13C2 PFHxA	Ave	1.097	1.083		2.47	2.50	-1.2	50.0
13C3 HFPO-DA	Ave	0.0899	0.0889		2.47	2.50	-1.1	50.0
13C4-PFHpA	Ave	0.9735	1.039		2.67	2.50	6.7	50.0
18O2 PFHxS	Ave	1.198	1.278		2.52	2.37	6.7	50.0
M2-6:2FTS	Ave	0.2186	0.2216		2.41	2.38	1.4	40.0
13C4 PFOA	Ave	0.9539	0.9766		2.56	2.50	2.4	50.0
13C4 PFOS	Ave	0.8551	0.8610		2.41	2.39	0.7	50.0
13C5 PFNA	Ave	0.8109	0.8487		2.62	2.50	4.7	50.0
13C8 FOSA	Ave	1.187	1.178		2.48	2.50	-0.8	50.0
M2-8:2FTS	Ave	0.2431	0.2416		2.38	2.40	-0.6	40.0
13C2 PFDA	Ave	0.6992	0.6855		2.45	2.50	-2.0	50.0
d3-NMeFOSAA	Ave	0.4120	0.3877		2.35	2.50	-5.9	50.0
d5-NEtFOSAA	Ave	0.4070	0.4020		2.47	2.50	-1.2	50.0
13C2 PFUnA	Ave	0.5873	0.5641		2.40	2.50	-4.0	50.0
13C2 PFDoA	Ave	0.6294	0.6275		2.49	2.50	-0.3	50.0
13C2-PFTeDA	Ave	0.7673	0.7108		2.32	2.50	-7.4	50.0
13C2-PFHxDA	Ave	1.420	1.436		2.53	2.50	1.2	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAAA_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2018 12:02:30 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:40:52 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:15:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.435	1.432	0.003	0.540	6131064	2.47		98.8	24367	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.434	0.001	1.000	6136981	2.45			1903	
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.716	0.003	0.647	4438344	2.42		96.7	41768	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.719	0.0	1.000	5256136	2.49			3641	
D 47 13C3-PFBS										
301.90 > 83.00	1.755	1.756	-0.001	0.660	101047	2.30		98.9	711	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.755	1.760	-0.005	1.000	7370326	2.24			41967	
298.90 > 99.00	1.755	1.760	-0.005	1.000	3028131		2.43(1.25-3.74)		18538	
D 60 M2-4:2FTS										
329.00 > 81.00	1.959	1.966	-0.007	0.737	676447	2.39		103	7641	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.969	1.966	0.003	1.122	1654822	2.43			50158	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.000	0.002	0.753	4854949	2.47		98.8	51160	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.002	0.0	1.000	5099825	2.58			8587	
313.00 > 119.00	2.002	2.002	0.0	1.000	456216		11.18(5.03-15.10)		8100	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.025	0.0	1.154	6708088	2.38			62413	
349.00 > 99.00	2.014	2.025	-0.011	1.147	2422162		2.77(1.36-4.07)		22579	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.099	-0.006	0.787	398332	2.47		98.9	7993	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.099	-0.006	1.000	875056	2.39			4845	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.318	2.318	0.0	1.000	5003851	2.38			6366	
363.00 > 169.00	2.318	2.318	0.0	1.000	1874930		2.67(1.13-3.40)		12052	
D 9 13C4-PFHpA										
367.00 > 322.00	2.318	2.318	0.0	0.872	4656296	2.67		107	41039	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.318	2.331	-0.013	0.994	5461859	2.06			18927	
399.00 > 99.00	2.318	2.331	-0.013	0.994	1784835		3.06(1.50-4.49)		7949	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.333	-0.001	0.877	5420046	2.52		107	39724	
65 Adona										
377.00 > 251.00	2.358	2.365	-0.007	0.779	13686036	2.39			71323	
377.00 > 85.00	2.358	2.365	-0.007	0.779	8337865		1.64(0.84-2.53)		53282	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.645	-0.010	1.000	1333122	2.14			8063	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.645	-0.010	0.991	943359	2.41		101	12034	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.670	-0.011	1.000	4377398	2.56		102	50629	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.671	-0.012	1.000	5044620	2.43			1817	
413.00 > 169.00	2.659	2.671	-0.012	1.000	2587826		1.95(0.84-2.52)		12854	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.671	-0.012		4482111	2.50			39137	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.678	-0.012	0.881	5002055	2.42			24929	
449.00 > 99.00	2.666	2.678	-0.012	0.881	1268205		3.94(1.94-5.82)		17204	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.025	3.034	-0.009	1.000	4114457	2.28			26454	
499.00 > 99.00	3.025	3.034	-0.009	1.000	952789		4.32(2.31-6.93)		15874	
D 19 13C5 PFNA										
468.00 > 423.00	3.025	3.034	-0.009	1.138	3804115	2.62		105	42092	
D 18 13C4 PFOS										
503.00 > 80.00	3.025	3.034	-0.009	1.138	3689440	2.41		101	25424	
20 Perfluorononanoic acid										
463.00 > 419.00	3.025	3.036	-0.011	1.000	3959979	2.41			9180	
463.00 > 169.00	3.025	3.036	-0.011	1.000	980675		4.04(1.90-5.69)		28876	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.246	-0.013	1.069	6907503	2.37			68780	
D 21 13C8 FOSA										
506.00 > 78.00	3.360	3.357	0.003	1.264	5279917	2.48		99.2	41968	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.360	3.358	0.002	1.000	5097528	2.43			34528	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.379	-0.009	1.114	2860785	2.28			32480	
549.00 > 99.00	3.370	3.379	-0.009	1.114	1098082		2.61(1.33-3.97)		17909	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.382	-0.012	1.267	1037484	2.38		99.4	18107	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.383	-0.013	1.000	1275212	2.23			28766	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.379	3.393	-0.014	1.000	3285706	2.57			11443	
513.00 > 169.00	3.379	3.393	-0.014	1.000	550350		5.97(2.36-7.09)		15589	
D 23 13C2 PFDA										
515.00 > 470.00	3.379	3.393	-0.014	1.271	3072360	2.45		98.0	43459	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.528	3.543	-0.015	1.327	1737728	2.35		94.1	19084	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.551	-0.013	1.003	1778042	2.49			9882	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.702	-0.015	1.219	2711359	2.44			47459	
599.00 > 99.00	3.687	3.702	-0.015	1.219	892646		3.04(1.39-4.16)		17035	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.697	3.713	-0.016	1.391	1801704	2.47		98.8	12323	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.721	-0.013	1.000	2212866	2.57			7822	
563.00 > 169.00	3.708	3.721	-0.013	1.000	520962		4.25(2.12-6.36)		13424	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.721	-0.013	1.003	1569355	2.42			38323	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.721	-0.013	1.395	2528432	2.40		96.0	23769	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.879	-0.013	1.278	10951949	2.46			104128	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	4.016	-0.017	1.000	2981159	2.40			3399	
613.00 > 169.00	3.999	4.016	-0.017	1.000	739488		4.03(2.13-6.40)		9228	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.016	-0.017	1.504	2812645	2.49		99.7	14618	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.284	-0.022	1.066	3024032	2.19			3178	
663.00 > 169.00	4.262	4.284	-0.022	1.066	955670		3.16(1.25-3.76)		14135	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.524	-0.023	1.693	3185648	2.32		92.6	13201	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.524	-0.023	1.000	850833	2.47			7855	
713.00 > 219.00	4.491	4.524	-0.033	0.998	598270		1.42(0.71-2.13)		9582	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.913	4.940	-0.027	1.848	6436277	2.53		101	15738	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.913	4.941	-0.028	1.000	6336870	2.57			2687	
813.00 > 169.00	4.913	4.941	-0.028	1.000	983566		6.44(2.86-8.58)		7867	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.270	5.302	-0.032	1.072	7377474	2.46			2173	
913.00 > 169.00	5.270	5.302	-0.032	1.072	857374		8.60(3.83-11.48)		6319	

Reagents:

LCPFCIC_FULL_00012 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:40:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAAA_010.d

Injection Date: 05-Jul-2018 12:02:30 Instrument ID: A8_N

Lims ID: ICV Full

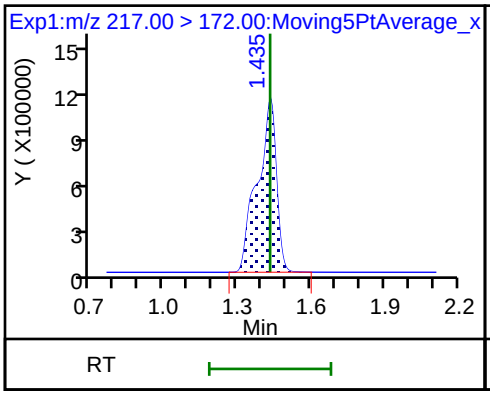
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 17 Worklist Smp#: 10

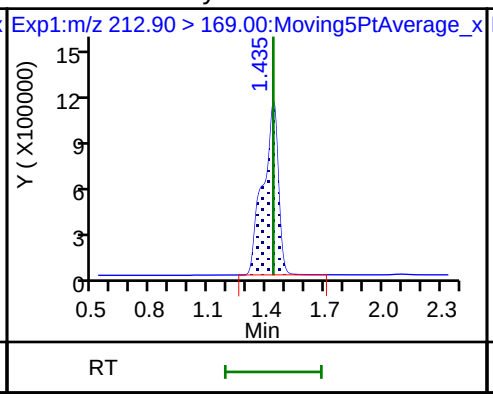
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

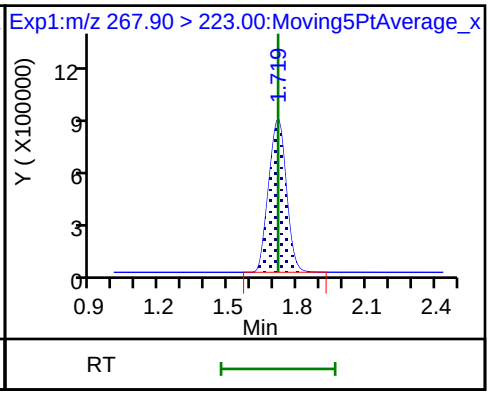
D 1 13C4 PFBA



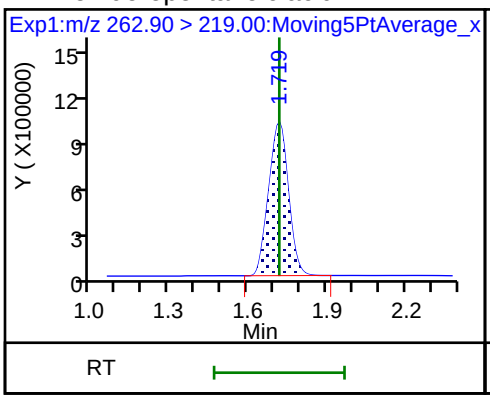
2 Perfluorobutyric acid



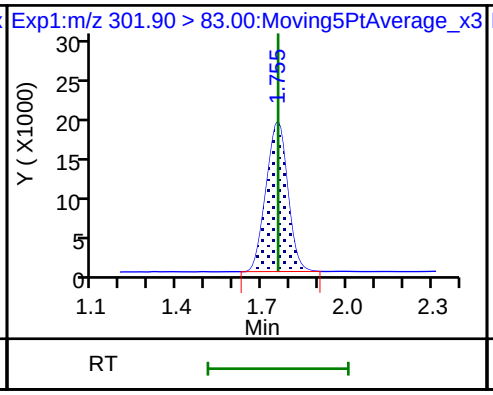
D 3 13C5-PFPeA



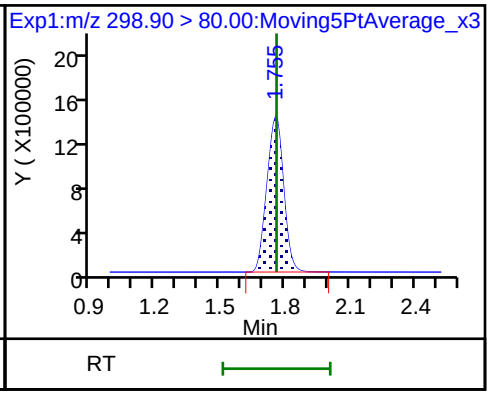
4 Perfluoropentanoic acid



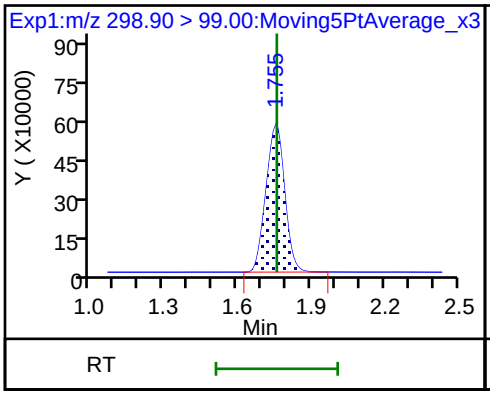
D 47 13C3-PFBS



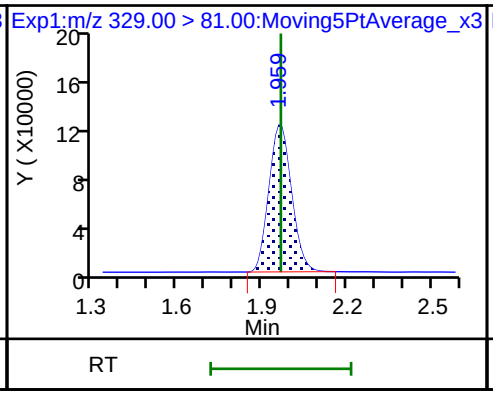
5 Perfluorobutanesulfonic acid



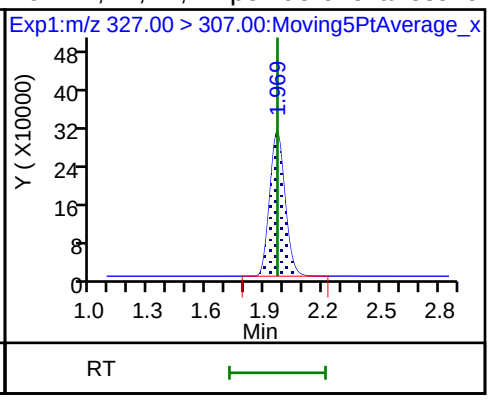
5 Perfluorobutanesulfonic acid



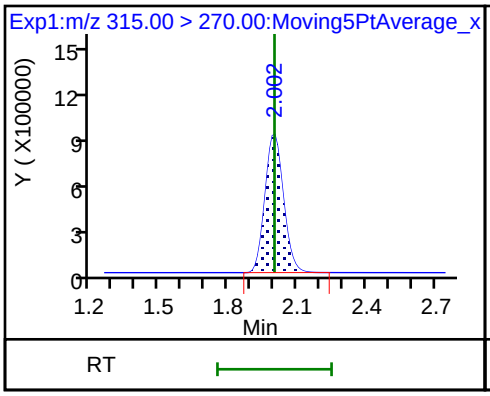
D 60 M2-4:2FTS



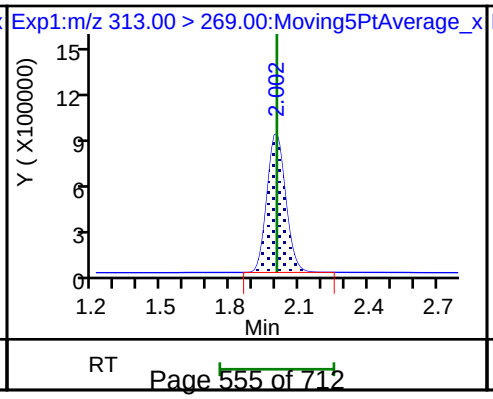
61 1H,1H,2H,2H-perfluorohexanesulfoni



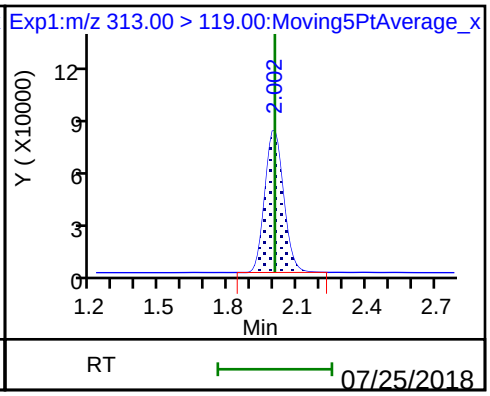
D 7 13C2 PFHxA



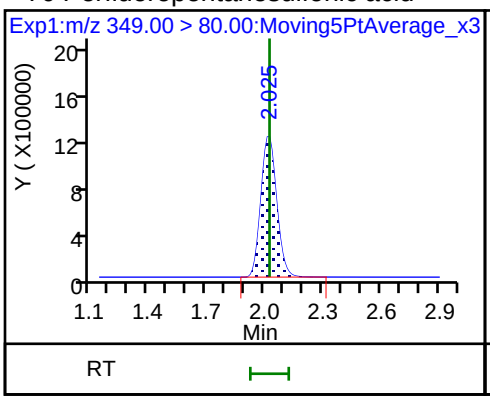
6 Perfluorohexanoic acid



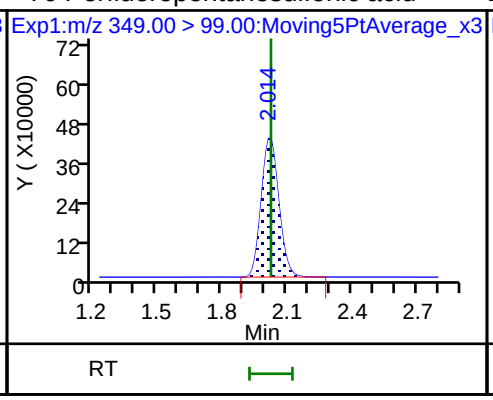
6 Perfluorohexanoic acid



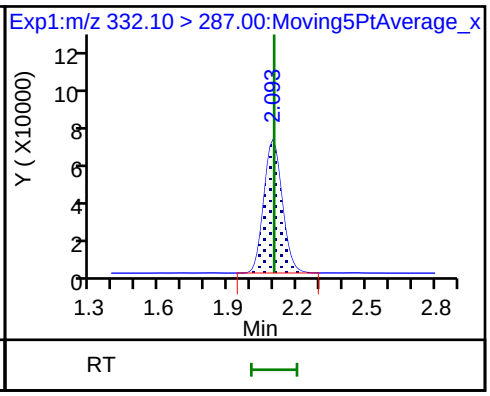
70 Perfluoropentanesulfonic acid



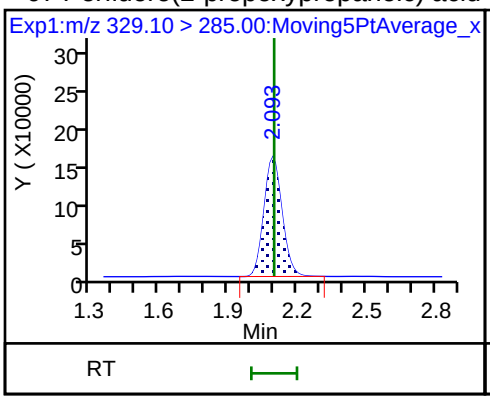
70 Perfluoropentanesulfonic acid



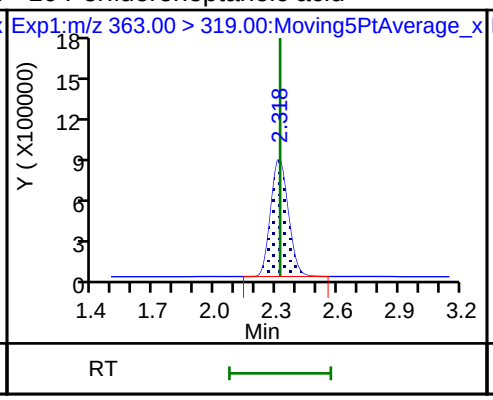
D 64 13C3 HFPO-DA



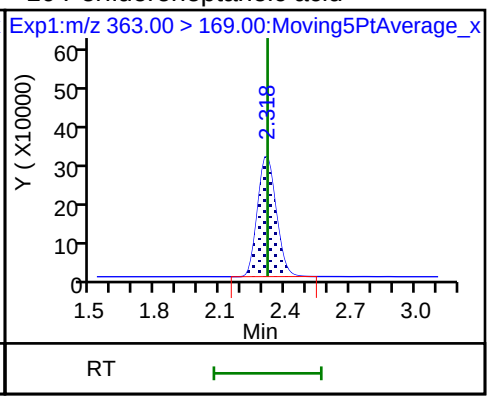
67 Perfluoro(2-propoxypropanoic) acid



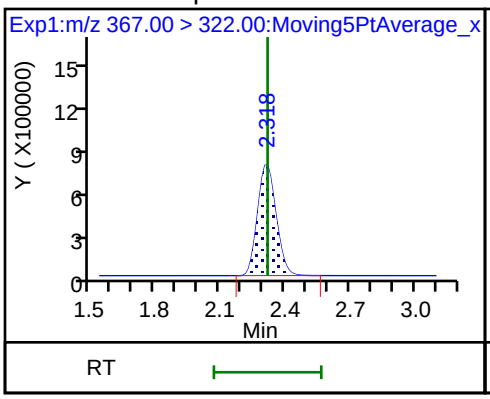
10 Perfluoroheptanoic acid



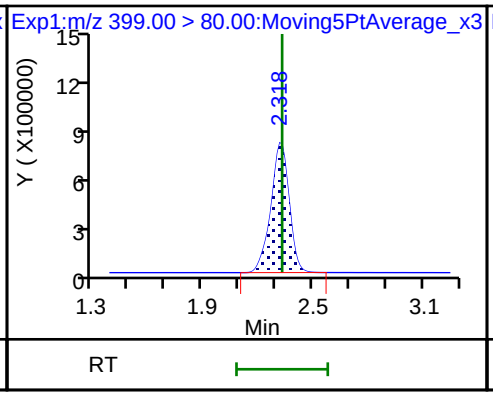
10 Perfluoroheptanoic acid



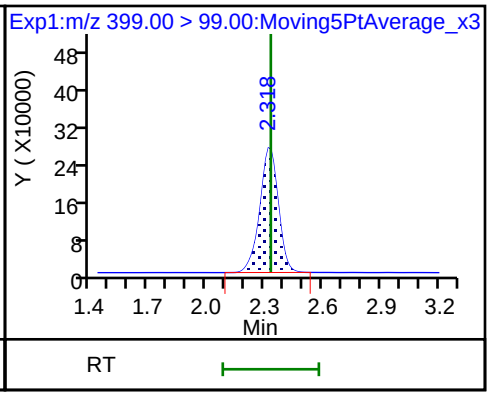
D 9 13C4-PFHpA



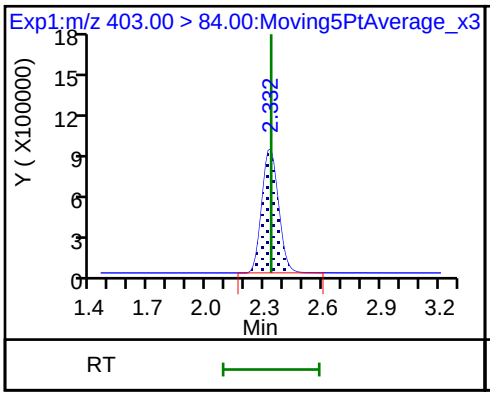
8 Perfluorohexanesulfonic acid



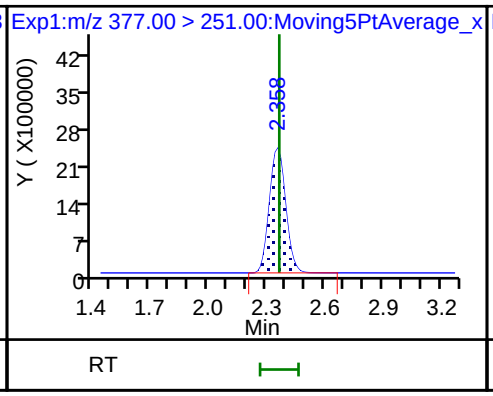
8 Perfluorohexanesulfonic acid



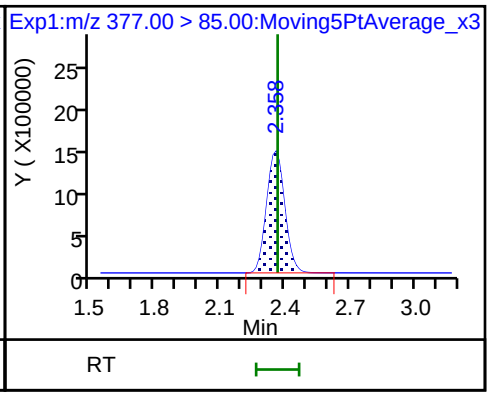
D 11 18O2 PFHxS



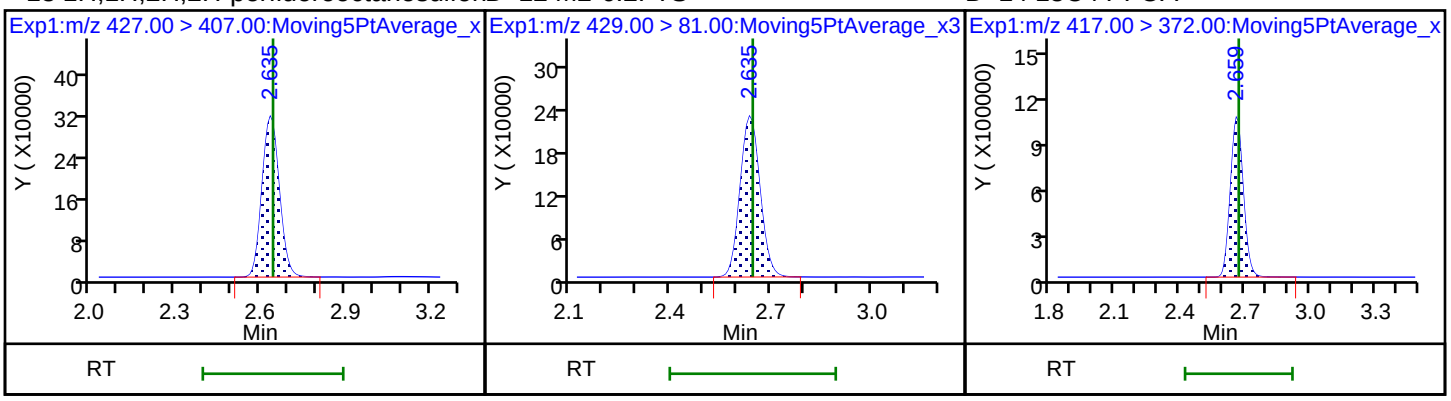
65 Adona



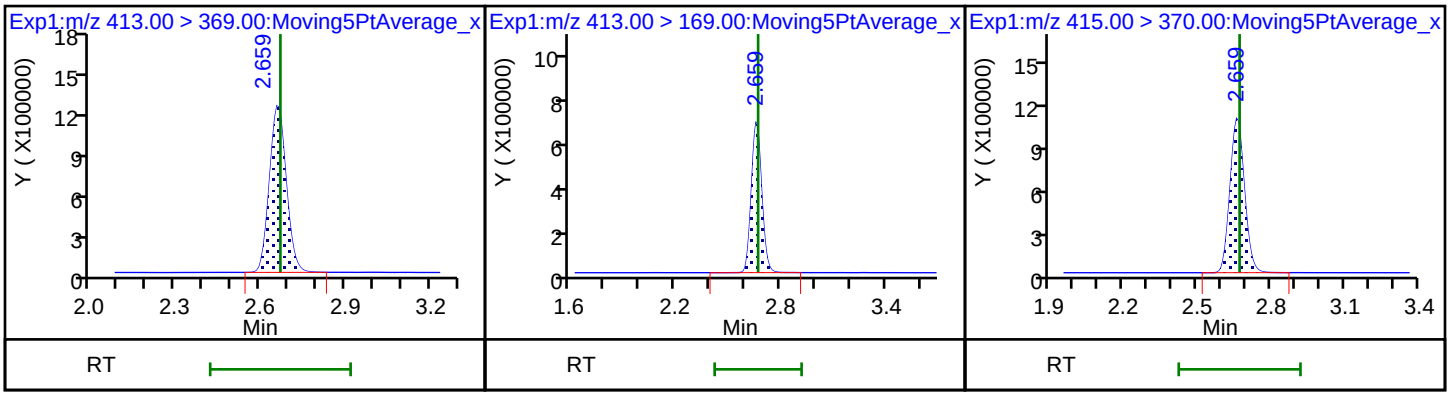
65 Adona



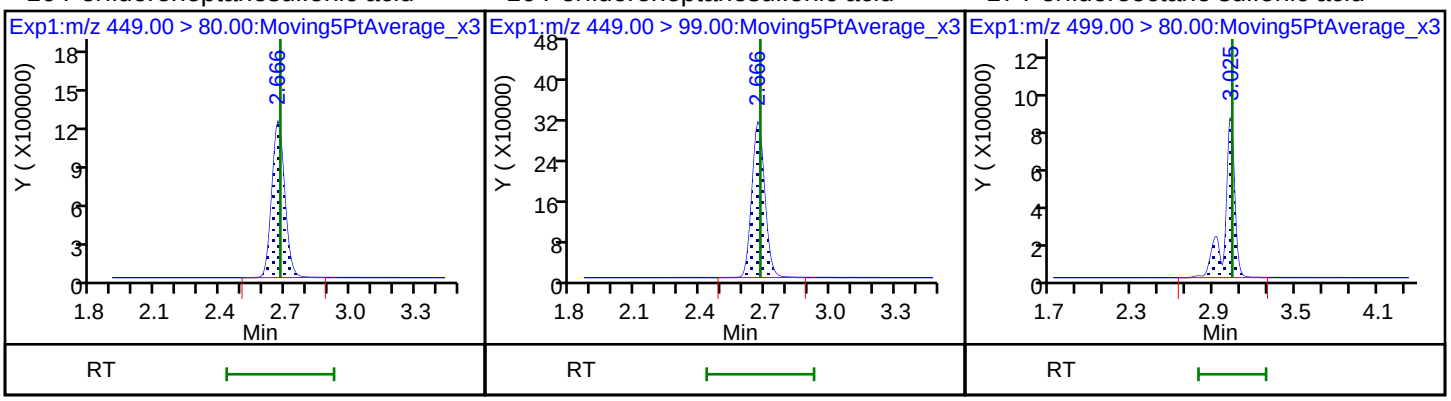
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



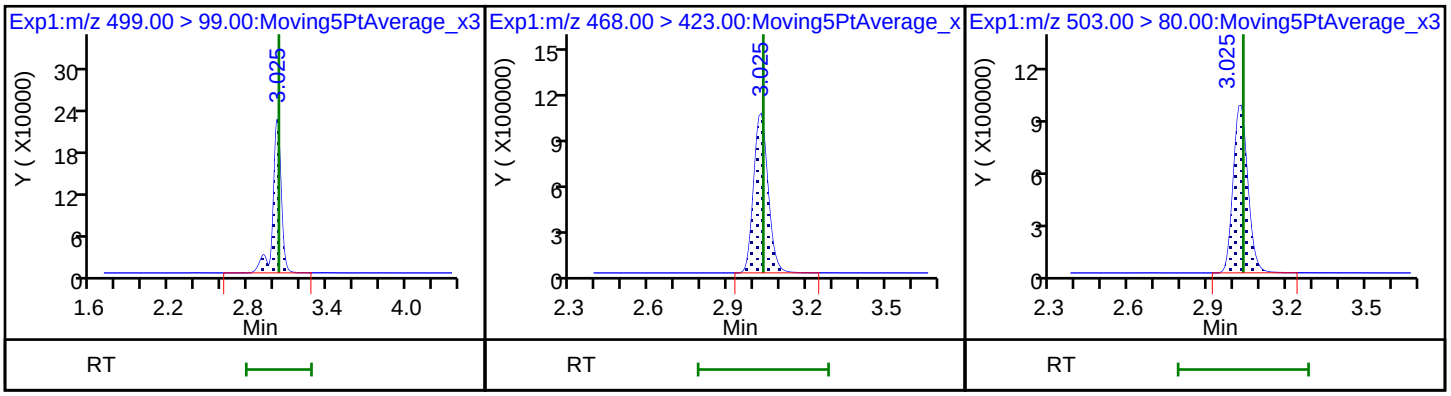
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



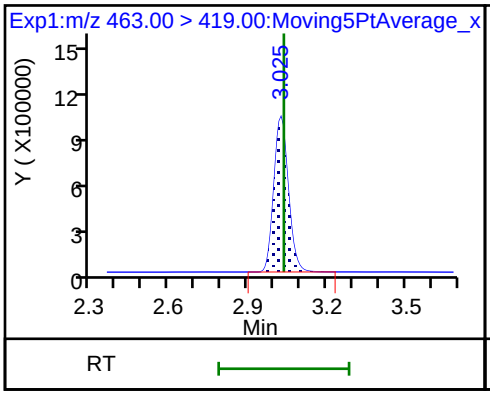
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



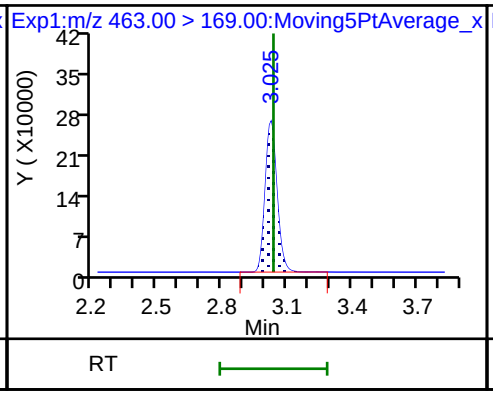
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



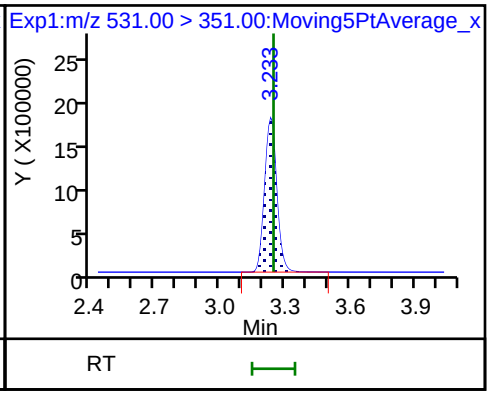
20 Perfluorononanoic acid



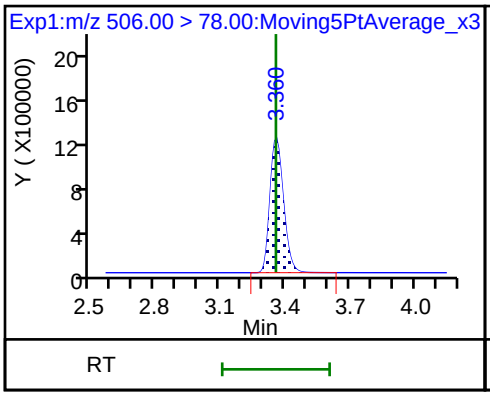
20 Perfluorononanoic acid



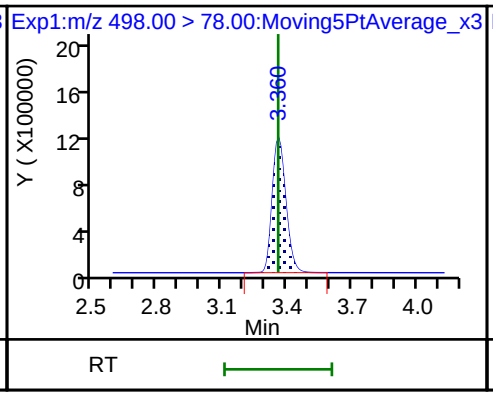
69 9-Chlorohexadecafluoro-3-oxanonane



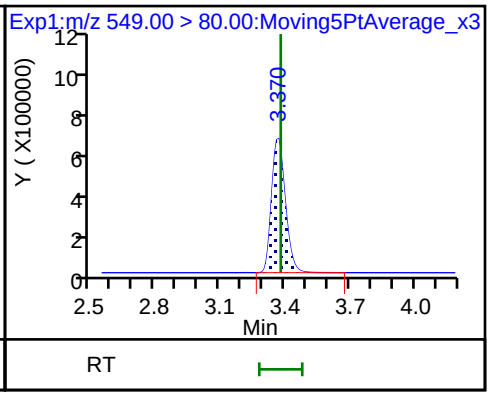
D 21 13C8 FOSA



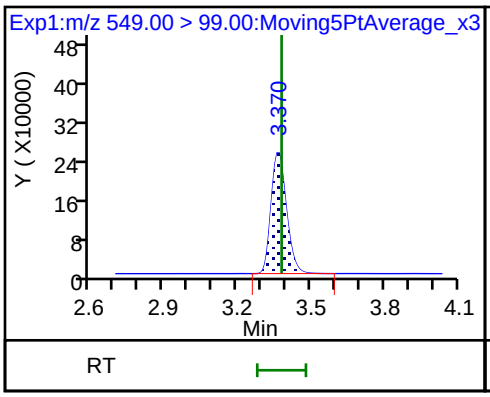
22 Perfluorooctane Sulfonamide



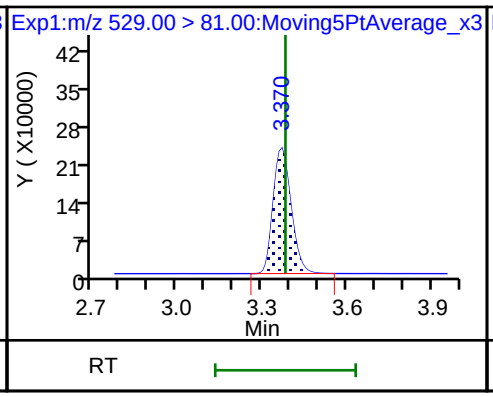
68 Perfluorononanesulfonic acid



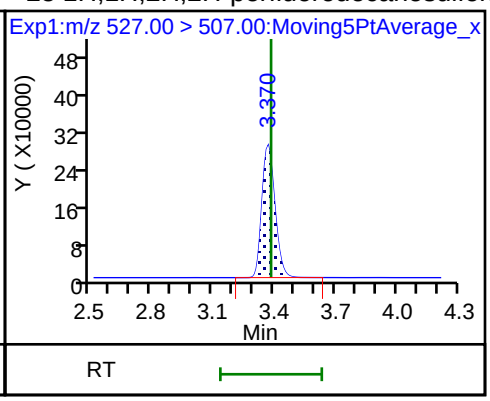
68 Perfluorononanesulfonic acid



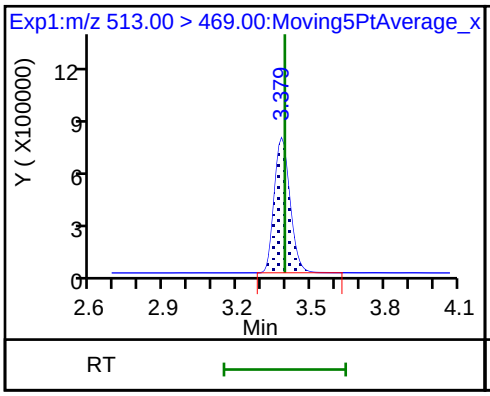
D 26 M2-8:2FTS



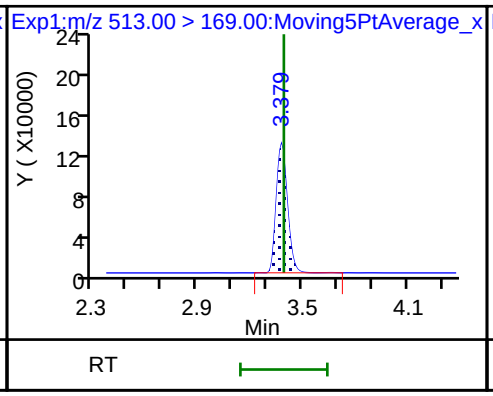
25 1H,1H,2H,2H-perfluorodecanesulfoni



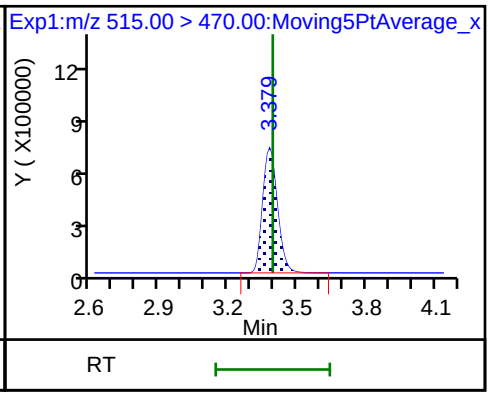
24 Perfluorodecanoic acid



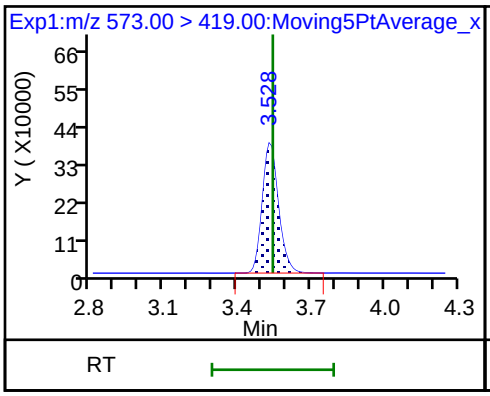
24 Perfluorodecanoic acid



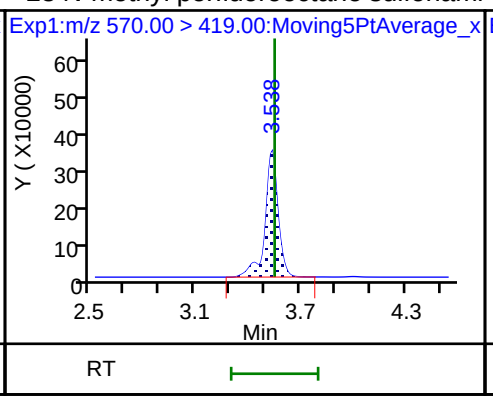
D 23 13C2 PFDA



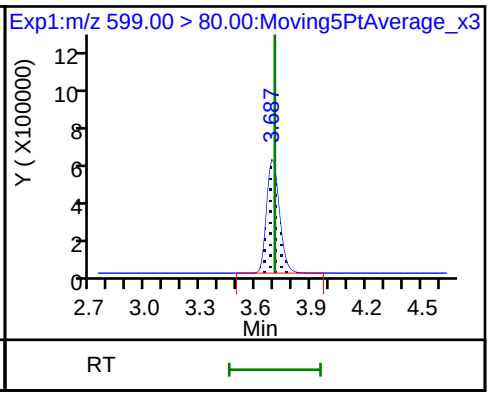
D 27 d3-NMeFOSAA



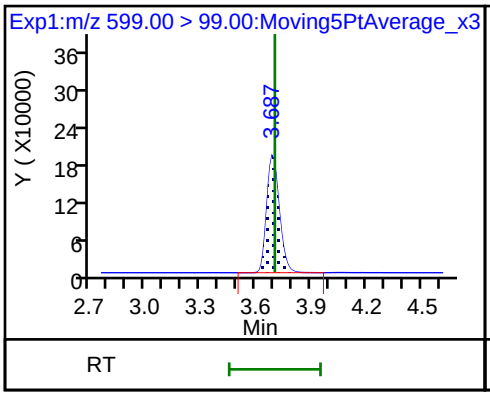
28 N-methyl perfluorooctane sulfonami



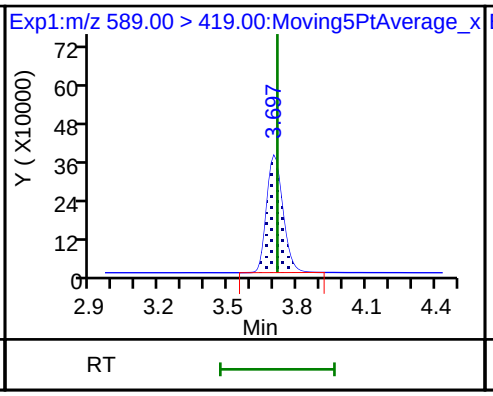
29 Perfluorodecane Sulfonic acid



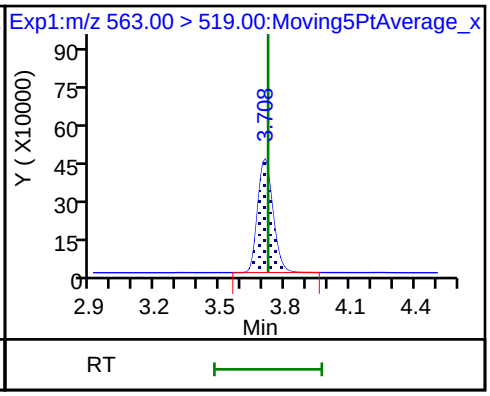
29 Perfluorodecane Sulfonic acid



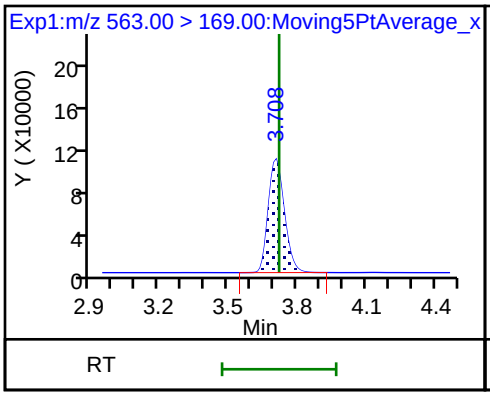
D 32 d5-NEtFOSAA



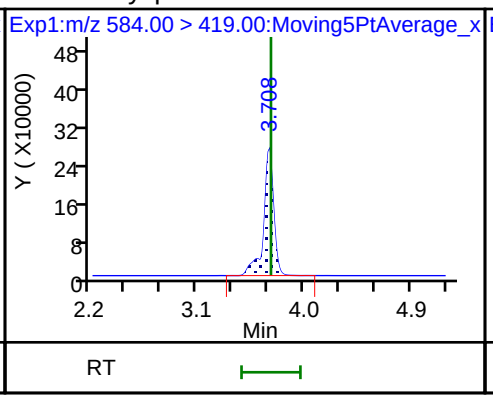
31 Perfluoroundecanoic acid



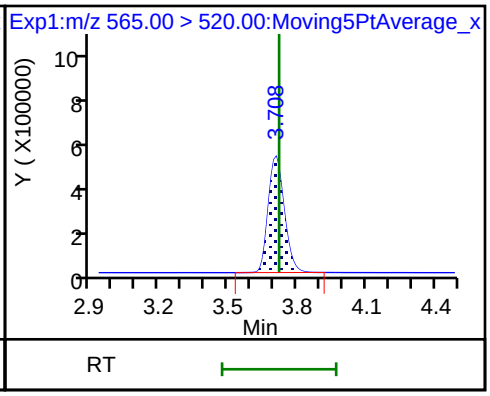
31 Perfluoroundecanoic acid



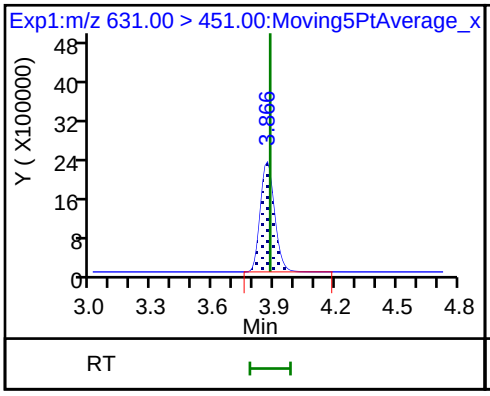
33 N-ethyl perfluorooctane sulfonamid



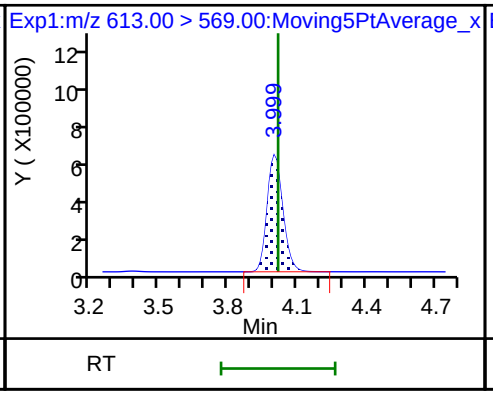
D 30 13C2 PFUnA



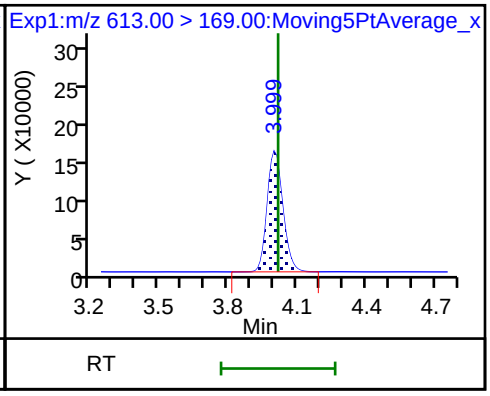
66 11-Chloroeicosafluoro-3-oxaundecan



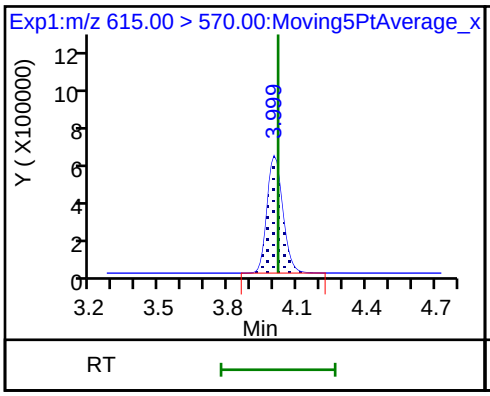
37 Perfluorododecanoic acid



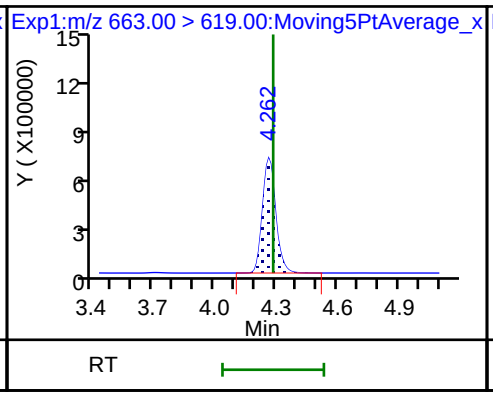
37 Perfluorododecanoic acid



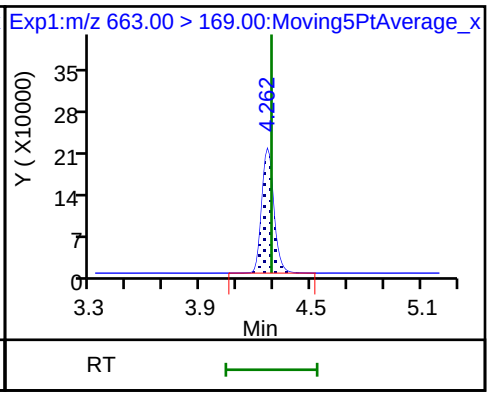
D 36 13C2 PFDoA



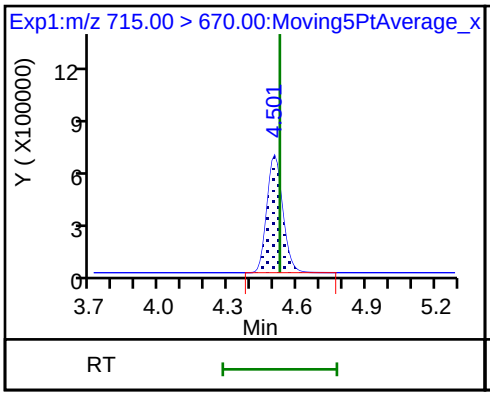
41 Perfluorotridecanoic acid



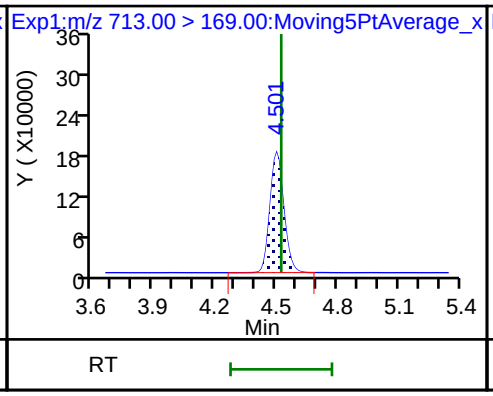
41 Perfluorotridecanoic acid



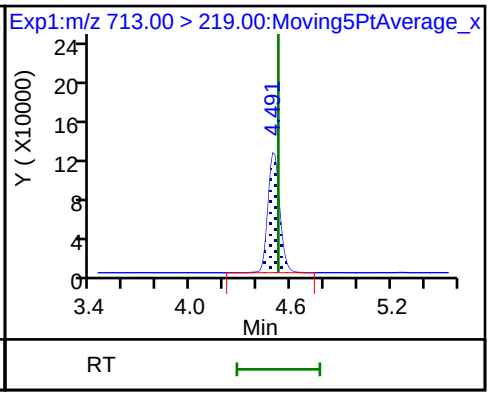
D 43 13C2-PFTeDA



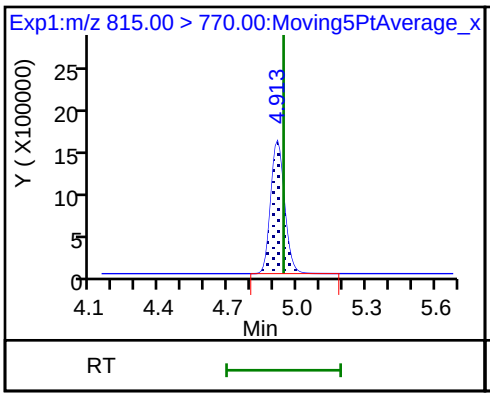
42 Perfluorotetradecanoic acid



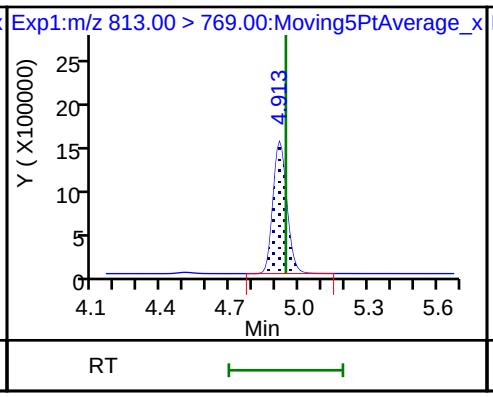
42 Perfluorotetradecanoic acid



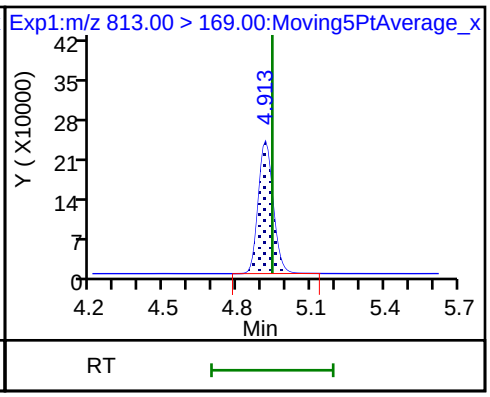
D 44 13C2-PFHxDA



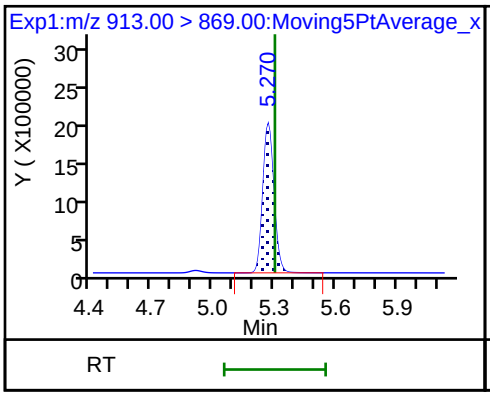
45 Perfluorohexadecanoic acid



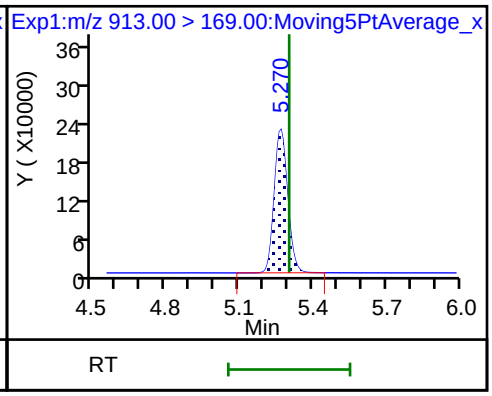
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233302/2 Calibration Date: 07/10/2018 20:14

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	1.078		0.0528	0.0500	5.6	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.272		0.0534	0.0500	6.8	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	75.05		0.0438	0.0442	-1.0	50.0
4:2 FTS	AveID	15.68	16.20			0.0467	3.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.085		0.0533	0.0500	6.6	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	68.22		0.0493	0.0469	5.2	50.0
HFPO-DA (GenX)	AveID	2.299	2.306		0.0502	0.0500	0.3	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.353		0.0599	0.0500	19.7	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.282		0.0505	0.0455	10.9	50.0
ADONA	AveID	3.706	3.928		0.0499	0.0471	6.0	50.0
6:2 FTS	AveID	1.567	1.537			0.0474	-1.9	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.295		0.0460	0.0476	-3.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.400		0.0591	0.0501	18.1	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.128		0.0523	0.0500	4.6	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.109		0.0440	0.0464	-5.1	50.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.891	1.841		0.0454	0.0466	-2.6	50.0
8:2 FTS	AveID	1.321	1.384		0.0502	0.0479	4.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.6899		0.0407	0.0480	-15.1	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9554		0.0482	0.0500	-3.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.280		0.0614	0.0500	22.8	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	0.9130			0.0500	-11.3	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6972		0.0467	0.0482	-3.1	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.7660			0.0500	-15.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.7750		0.0456	0.0500	-8.8	50.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.884	2.805		0.0458	0.0471	-2.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.113		0.0505	0.0500	1.0	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.091		0.0444	0.0500	-11.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2770		0.0512	0.0500	2.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.336		0.0475	0.0500	-5.1	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233302/2 Calibration Date: 07/10/2018 20:14

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.105		0.0475	0.0500	-5.1	50.0
13C4 PFBA	Ave	1.384	1.301		2.35	2.50	-6.0	50.0
13C5 PFPeA	Ave	1.025	0.9491		2.32	2.50	-7.4	50.0
13C3-PFBS	Ave	0.0245	0.0227		2.15	2.33	-7.5	50.0
M2-4:2FTS	Ave	0.1575	0.1589		2.36	2.34	0.9	50.0
13C2 PFHxA	Ave	1.097	1.025		2.34	2.50	-6.6	50.0
13C3 HFPO-DA	Ave	0.0899	0.0855		2.38	2.50	-4.8	50.0
13C4-PFHpA	Ave	0.9735	0.9910		2.55	2.50	1.8	50.0
18O2 PFHxS	Ave	1.198	1.286		2.54	2.37	7.3	50.0
M2-6:2FTS	Ave	0.2186	0.2295		2.49	2.38	5.0	50.0
13C4 PFOA	Ave	0.9539	1.009		2.64	2.50	5.8	50.0
13C4 PFOS	Ave	0.8551	0.8876		2.48	2.39	3.8	50.0
13C5 PFNA	Ave	0.8109	0.8761		2.70	2.50	8.0	50.0
13C8 FOSA	Ave	1.187	1.209		2.55	2.50	1.9	50.0
M2-8:2FTS	Ave	0.2431	0.2810		2.77	2.40	15.6	50.0
13C2 PFDA	Ave	0.6992	0.7351		2.63	2.50	5.1	50.0
d3-NMeFOSAA	Ave	0.4120	0.4149		2.52	2.50	0.7	50.0
d5-NEtFOSAA	Ave	0.4070	0.4284		2.63	2.50	5.3	50.0
13C2 PFUnA	Ave	0.5873	0.5966		2.54	2.50	1.6	50.0
13C2 PFDoA	Ave	0.6294	0.6508		2.59	2.50	3.4	50.0
13C2-PFTeDA	Ave	0.7673	0.6894		2.25	2.50	-10.2	50.0
13C2-PFHxDA	Ave	1.420	1.304		2.30	2.50	-8.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 10-Jul-2018 20:14:21 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 14:50:49 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK002

First Level Reviewer: ruangyotsakuld Date: 11-Jul-2018 14:50:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.419	1.417	0.002	0.532	5701867	2.35		94.0	24893	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.419	1.425	-0.006	1.000	122961	0.0528		106	62.9	
D 3 13C5-PFPeA										
267.90 > 223.00	1.710	1.717	-0.006	0.641	4160377	2.32		92.6	50857	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.710	1.721	-0.011	1.000	105811	0.0534		107	75.3	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.753	0.003	0.658	92383	2.15		92.5	703	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.757	-0.001	1.000	131807	0.0438		99.0	511	
298.90 > 99.00	1.756	1.757	-0.001	1.000	52499		2.51(1.25-3.74)		428	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.967	0.003	0.739	650641	2.36		101	10618	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.971	-0.001	1.122	30066	0.0483		103	1817	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.004	-0.002	1.000	97472	0.0533		107	251	
313.00 > 119.00	2.014	2.004	0.010	1.006	10563		9.23(5.03-15.10)		174	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.011	-0.009	0.751	4491406	2.34		93.4	73201	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.027	-0.002	1.154	127136	0.0493		105	2539	
349.00 > 99.00	2.025	2.027	-0.002	1.154	47542		2.67(1.36-4.07)		759	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	0.995	17289	0.0502		100	99.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.104	2.101	0.003	0.789	374883	2.38		95.2	8615	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.316	0.003	0.870	4344172	2.55		102	56529	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.320	-0.001	1.000	117539	0.0599		120	175	
363.00 > 169.00	2.319	2.320	-0.001	1.000	50960		2.31(1.13-3.40)		450	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.329	0.003	0.874	5331509	2.54		107	45201	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.333	-0.001	1.000	131524	0.0505		111	1512	
399.00 > 99.00	2.332	2.333	-0.001	1.000	41721		3.15(1.50-4.49)		400	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.780	287959	0.0499		106	3859	
377.00 > 85.00	2.358	2.360	-0.002	0.780	164327		1.75(0.84-2.53)		4077	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.637	-0.002	1.000	29310	0.0465		98.1	157	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.643	-0.008	0.988	955524	2.49		105	17691	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.661	0.006		4383599	2.50			28891	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.666	-0.007	0.997	4422102	2.64		106	41424	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.668	-0.001	1.003	123932	0.0591		118	38.2	
413.00 > 169.00	2.659	2.668	-0.009	1.000	54618		2.27(0.84-2.52)		301	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.668	-0.001	0.883	95949	0.0460		96.7	2152	
449.00 > 99.00	2.667	2.668	-0.001	0.883	28087		3.42(1.94-5.82)		781	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.021	3.021	0.0	1.000	80064	0.0440		94.9	822	
499.00 > 99.00	3.014	3.021	-0.007	0.998	19705		4.06(2.31-6.93)		402	
20 Perfluorononanoic acid										
463.00 > 419.00	3.021	3.021	0.0	1.000	86606	0.0523		105	228	
463.00 > 169.00	3.021	3.021	0.0	1.000	20706		4.18(1.90-5.69)		621	
D 19 13C5 PFNA										
468.00 > 423.00	3.021	3.022	-0.001	1.133	3840360	2.70		108	65066	
D 18 13C4 PFOS										
503.00 > 80.00	3.021	3.022	-0.001	1.133	3719764	2.48		104	36964	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.228	3.228	0.0	1.068	133496	0.0454		97.4	3764	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.355	3.365	-0.010	1.111	51536	0.0407		84.9	990	
549.00 > 99.00	3.355	3.365	-0.010	1.111	23111		2.23(1.33-3.97)		752	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.365	3.365	0.0	1.003	101294	0.0482		96.3	2348	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.355	3.365	-0.010	0.997	32674	0.0502		105	939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.367	-0.002	1.262	1180028	2.77		116	19417	
D 21 13C8 FOSA										
506.00 > 78.00	3.355	3.367	-0.012	1.258	5301209	2.55		102	40866	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.374	3.374	0.0	1.000	82476	0.0614		123	355	
513.00 > 169.00	3.374	3.374	0.0	1.000	13328		6.19(2.36-7.09)		615	
D 23 13C2 PFDA										
515.00 > 470.00	3.374	3.376	-0.002	1.265	3222258	2.63		105	41030	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.524	3.526	-0.002	1.321	1818708	2.52		101	23858	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.524	3.533	-0.009	1.000	33208	0.0444		88.7	269	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.679	3.679	0.0	1.218	52303	0.0467		96.9	1024	
599.00 > 99.00	3.679	3.679	0.0	1.218	17473		2.99(1.39-4.16)		604	
D 30 13C2 PFUnA										
565.00 > 520.00	3.700	3.694	0.006	1.388	2615036	2.54		102	36241	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.694	-0.004	1.384	1877924	2.63		105	14527	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.700	3.701	-0.001	1.003	28771	0.0425		85.0	532	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.700	3.701	-0.001	1.000	40535	0.0456		91.2	212	
563.00 > 169.00	3.700	3.701	-0.001	1.000	12402		3.27(2.12-6.36)		501	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.857	3.858	-0.001	1.277	205615	0.0458		97.3	6162	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.985	0.004	1.496	2852646	2.59		103	16166	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	3.990	-0.001	1.000	63511	0.0505		101	84.8	
613.00 > 169.00	3.989	3.990	-0.001	1.000	12423		5.11(2.13-6.40)		376	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.253	4.253	0.0	1.066	62232	0.0444		88.9	70.2	
663.00 > 169.00	4.253	4.253	0.0	1.066	19908		3.13(1.25-3.76)		432	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.489	0.001	1.684	3021942	2.25		89.8	13743	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.480	4.492	-0.012	0.998	16742	0.0512		102	316	
713.00 > 219.00	4.480	4.492	-0.012	0.998	14623		1.14(0.71-2.13)		437	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.895	0.001	1.836	5716332	2.30		91.9	14497	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.897	-0.001	1.000	152741	0.0475		94.9	81.7	
813.00 > 169.00	4.896	4.897	-0.001	1.000	26380		5.79(2.86-8.58)		374	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.249	-0.002	1.072	126354	0.0475		94.9	50.7	
913.00 > 169.00	5.247	5.249	-0.002	1.072	16532		7.64(3.83-11.48)		296	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 14:50:49 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d

Injection Date: 10-Jul-2018 20:14:21 Instrument ID: A8_N

Lims ID: CCVL

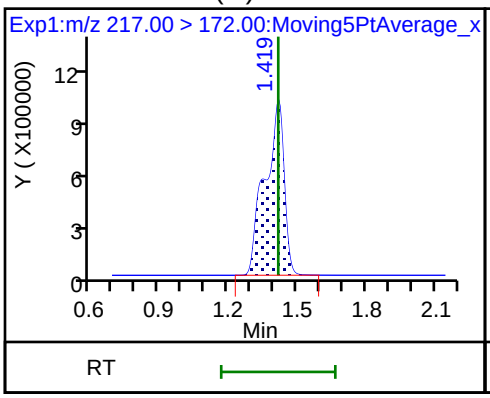
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

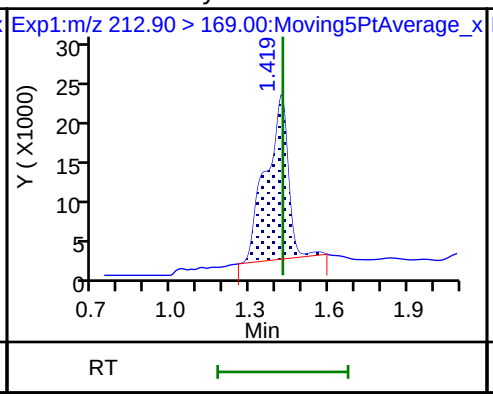
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

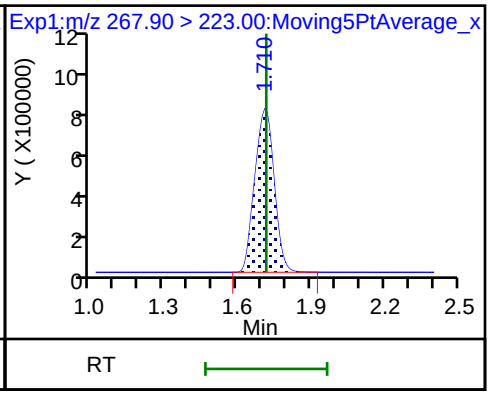
D 1 13C4 PFBA (M)



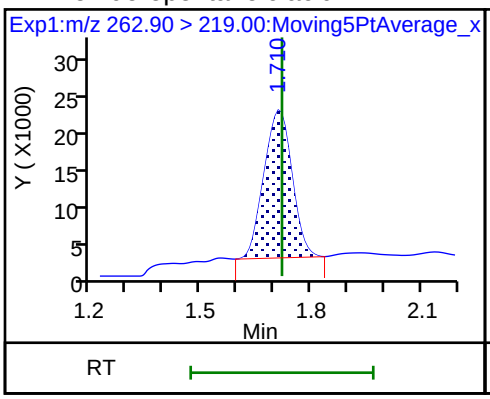
2 Perfluorobutyric acid



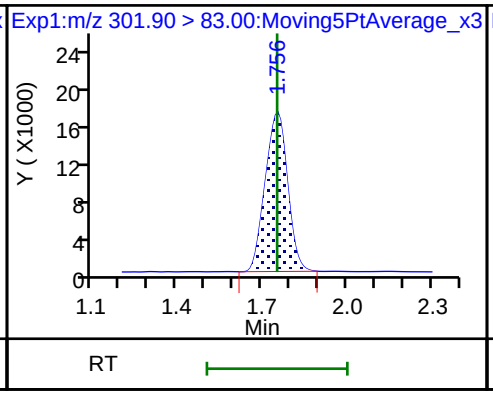
D 3 13C5-PFPeA



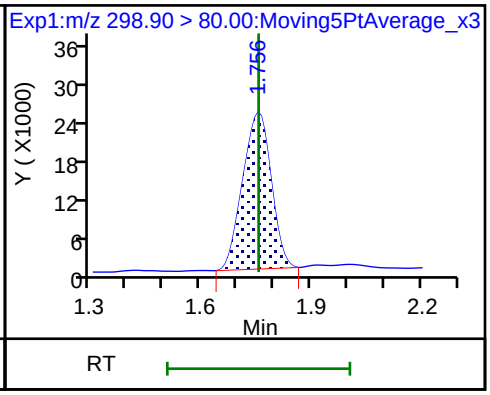
4 Perfluoropentanoic acid



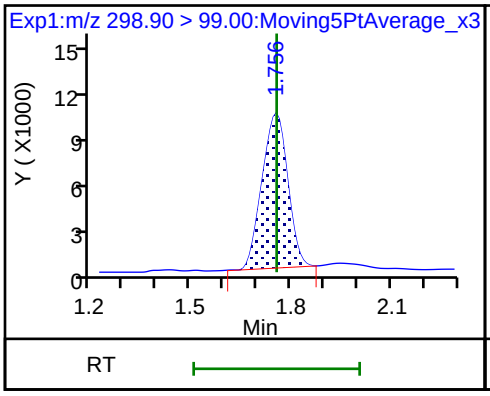
D 47 13C3-PFBS



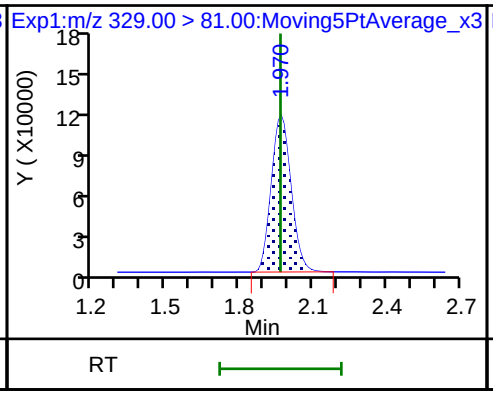
5 Perfluorobutanesulfonic acid



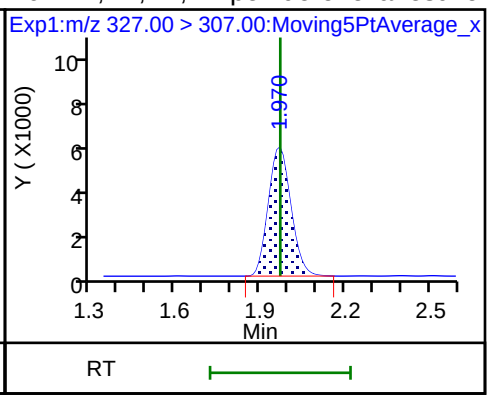
5 Perfluorobutanesulfonic acid



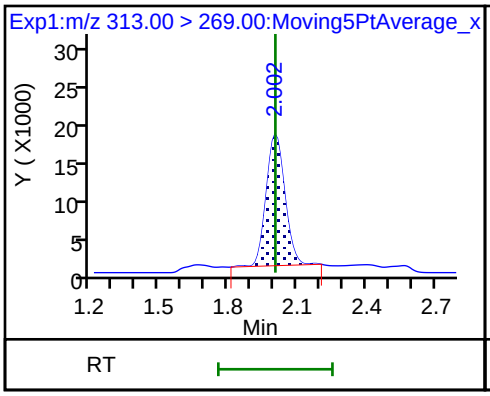
D 60 M2-4:2FTS



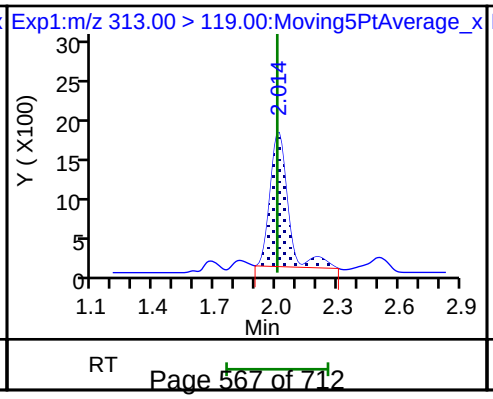
61 1H,1H,2H,2H-perfluorohexanesulfoni



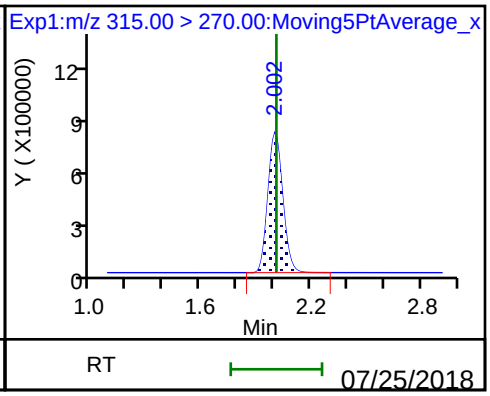
6 Perfluorohexanoic acid



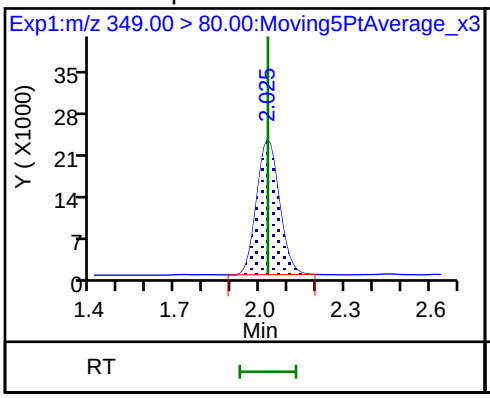
6 Perfluorohexanoic acid



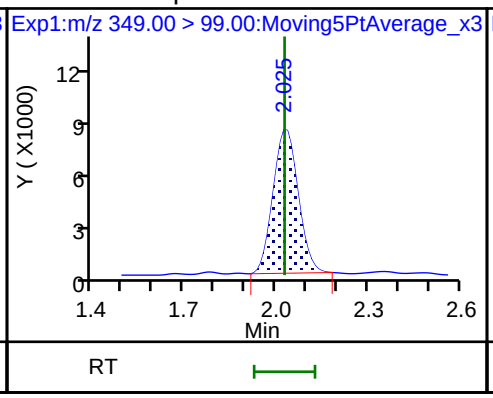
D 7 13C2 PFHxA



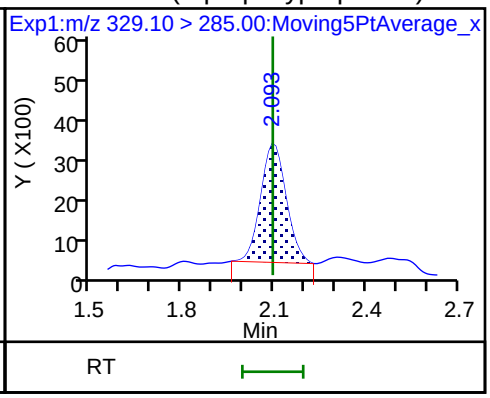
70 Perfluoropentanesulfonic acid



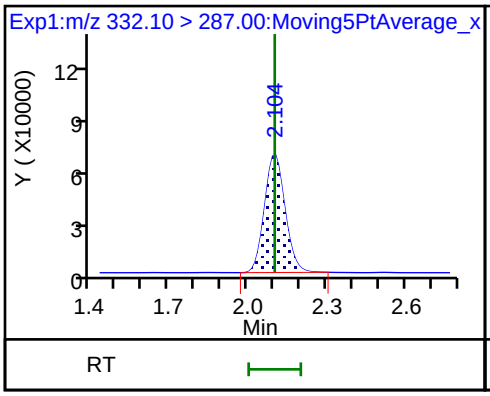
70 Perfluoropentanesulfonic acid



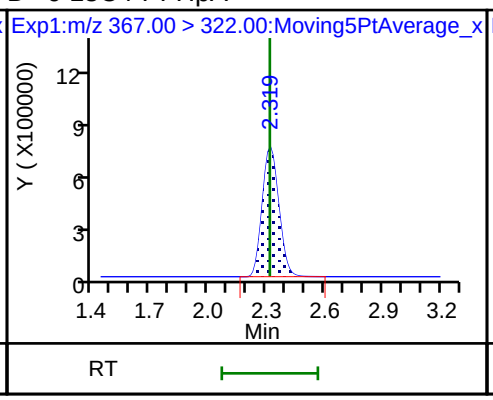
67 Perfluoro(2-propoxypropanoic) acid



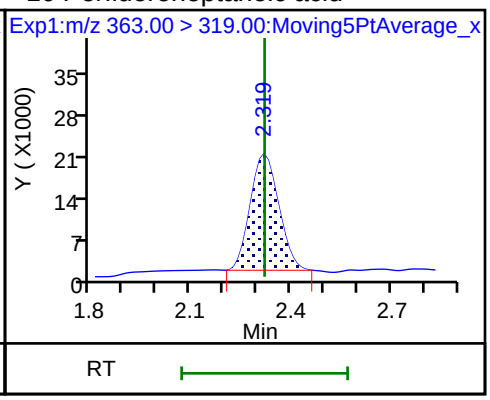
D 64 13C3 HFPO-DA



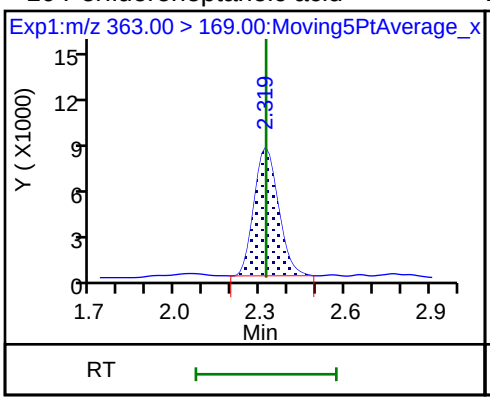
D 9 13C4-PFHpA



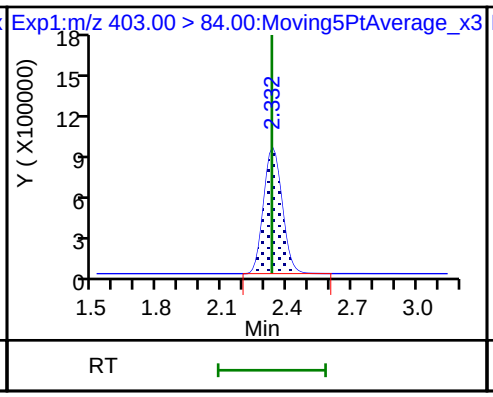
10 Perfluoroheptanoic acid



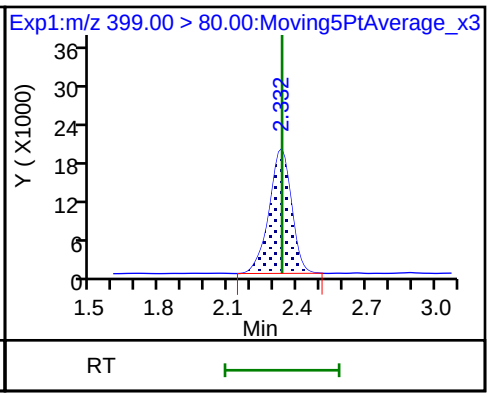
10 Perfluoroheptanoic acid



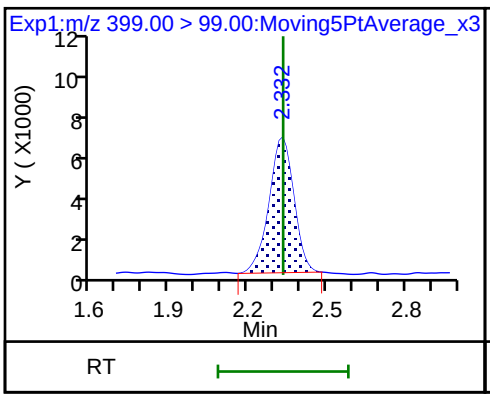
D 11 18O2 PFHxS



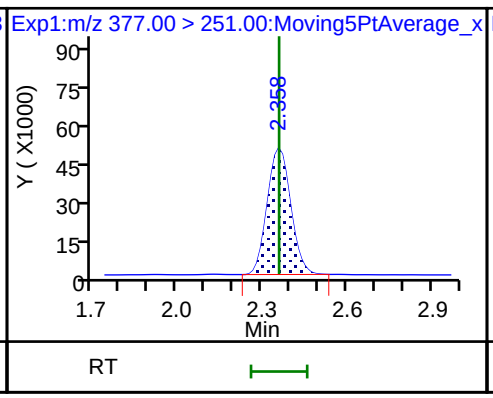
8 Perfluorohexanesulfonic acid



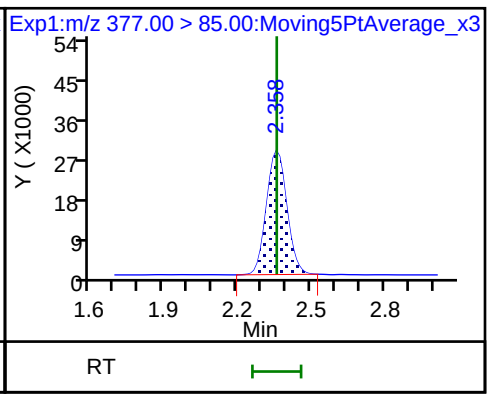
8 Perfluorohexanesulfonic acid



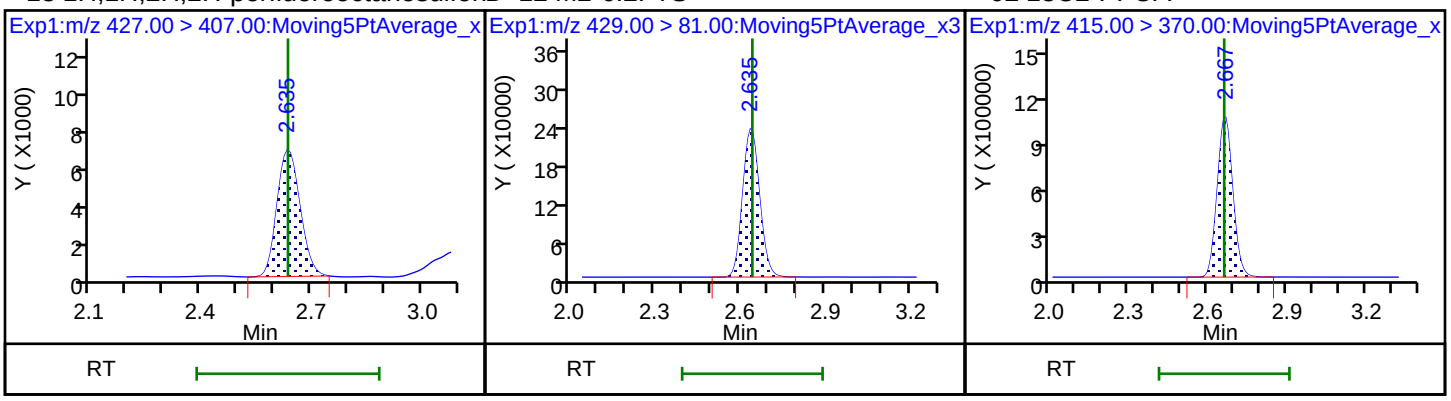
65 Adona



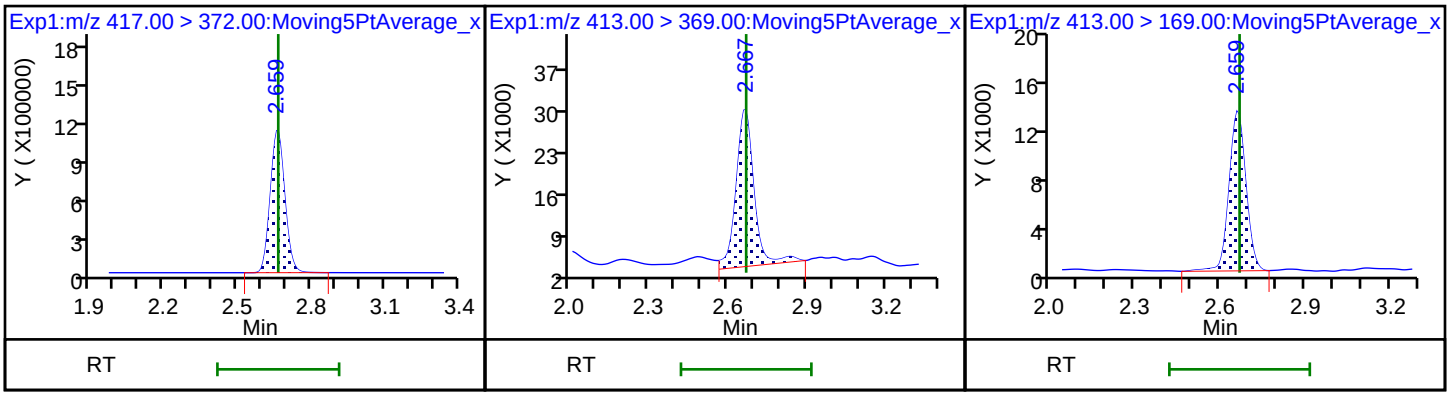
65 Adona



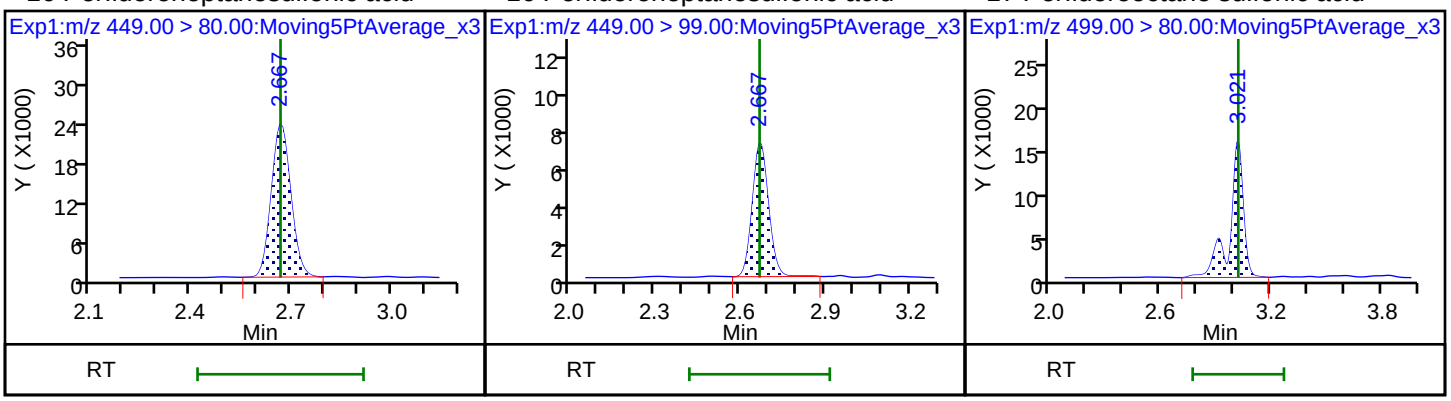
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



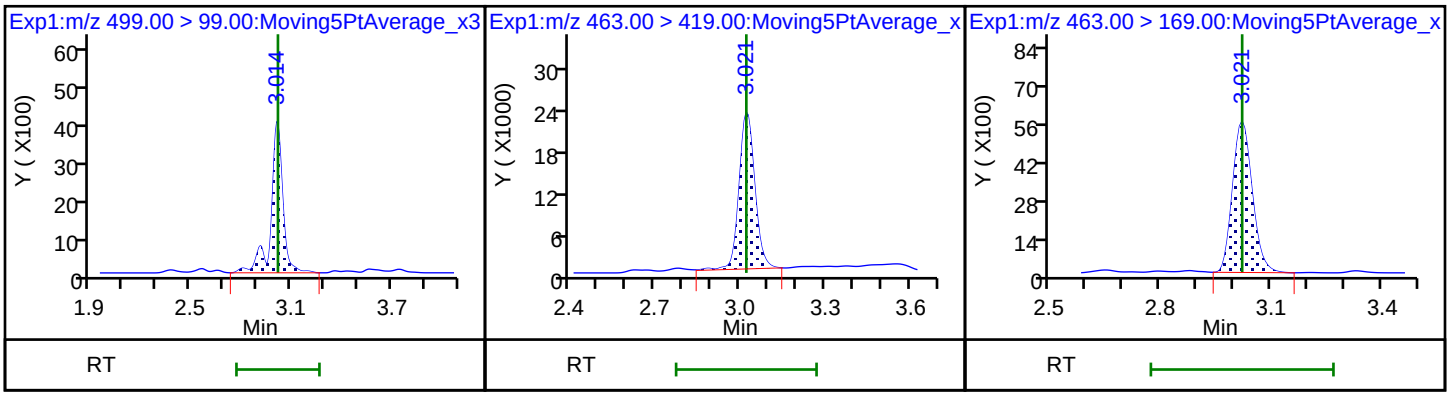
D 14 13C4 PFOA 15 Perfluorooctanoic acid 15 Perfluorooctanoic acid



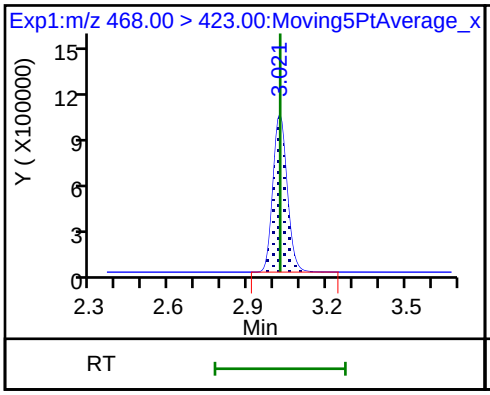
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



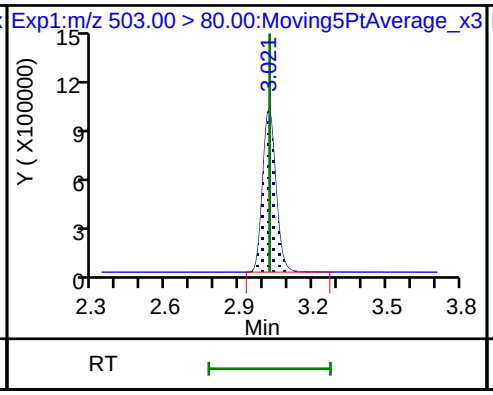
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



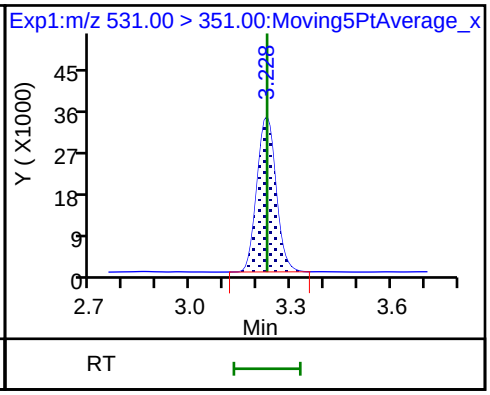
D 19 13C5 PFNA



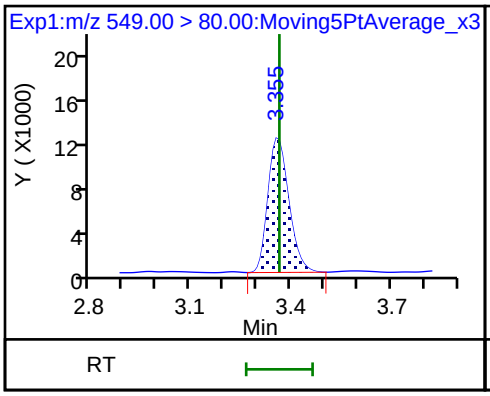
D 18 13C4 PFOS



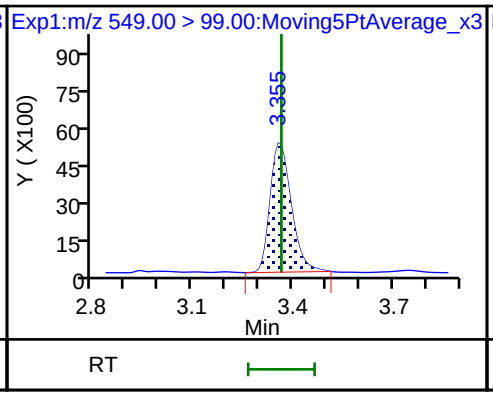
69 9-Chlorohexadecafluoro-3-oxanonane



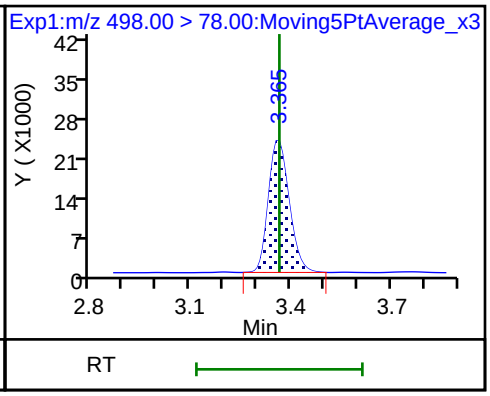
68 Perfluorononanesulfonic acid



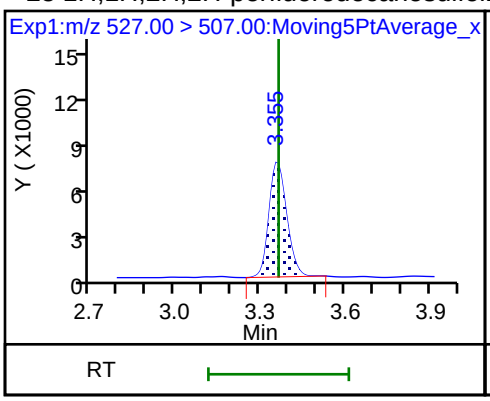
68 Perfluorononanesulfonic acid



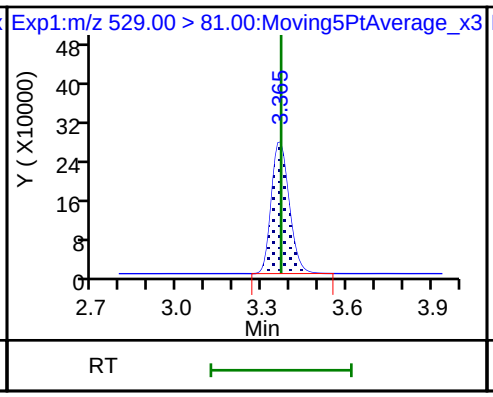
22 Perfluorooctane Sulfonamide



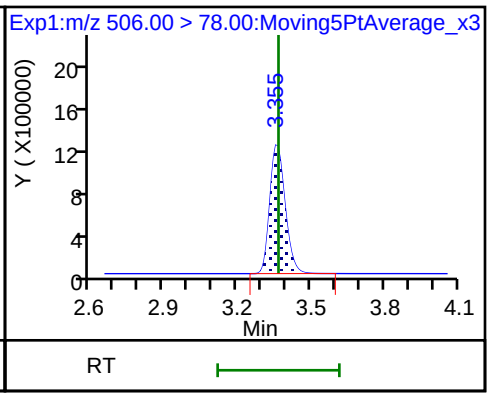
25 1H,1H,2H,2H-perfluorodecanesulfon



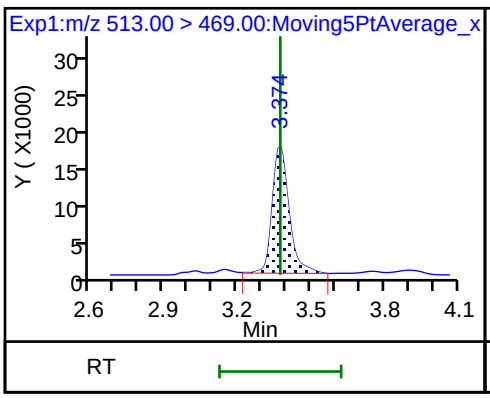
D 26 M2-8:2FTS



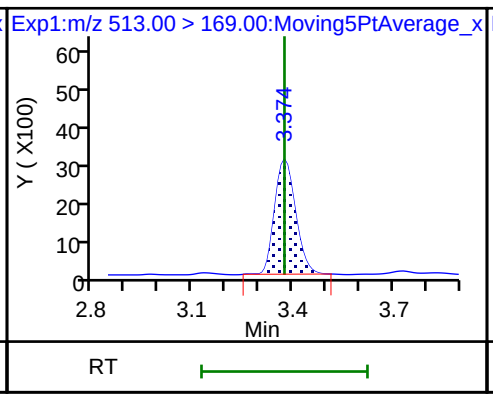
D 21 13C8 FOSA



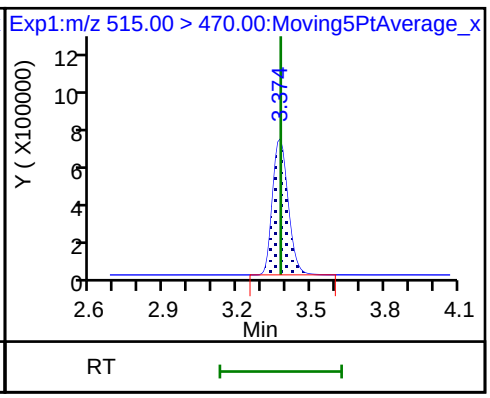
24 Perfluorodecanoic acid



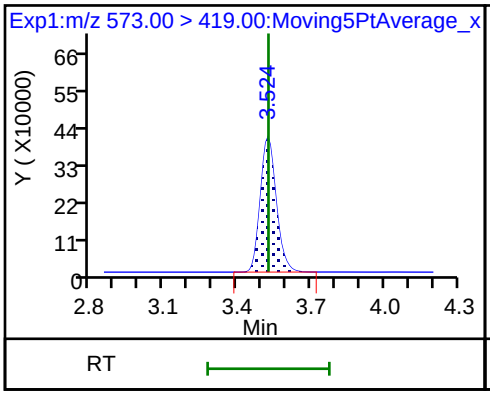
24 Perfluorodecanoic acid



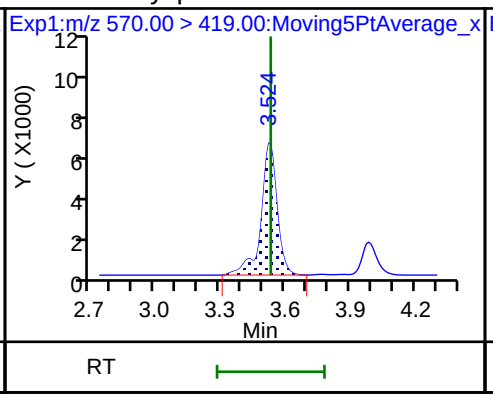
D 23 13C2 PFDA



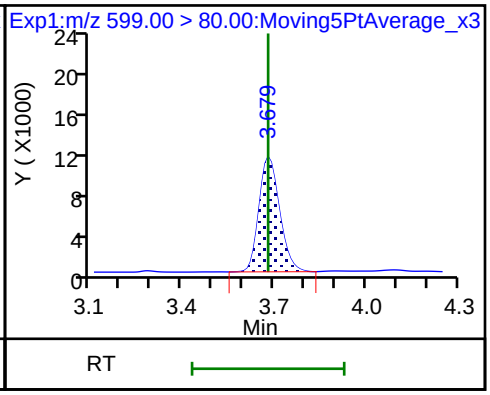
D 27 d3-NMeFOSAA



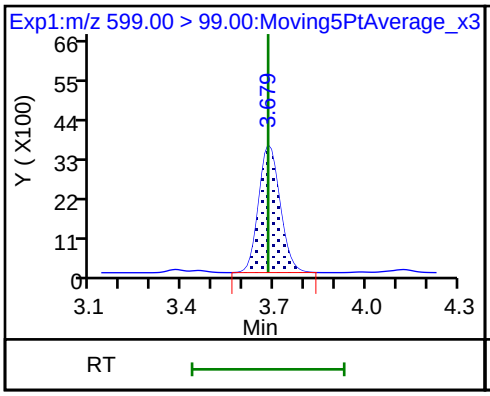
28 N-methyl perfluorooctane sulfonami



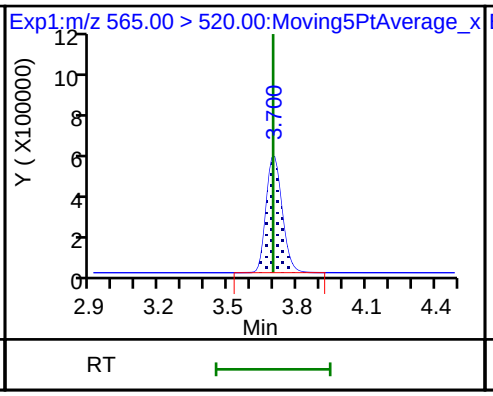
29 Perfluorodecane Sulfonic acid



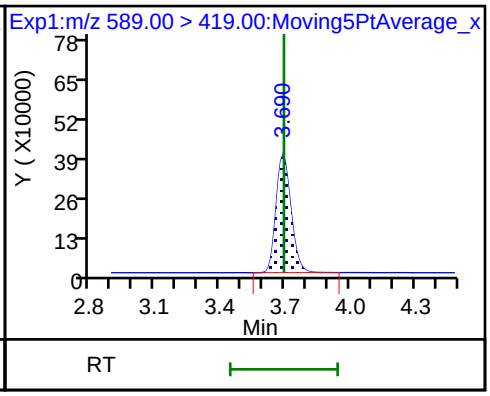
29 Perfluorodecane Sulfonic acid



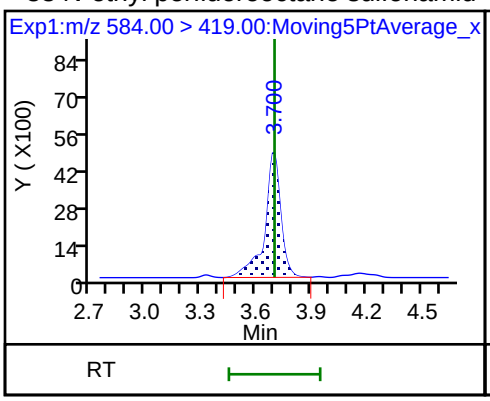
D 30 13C2 PFUnA



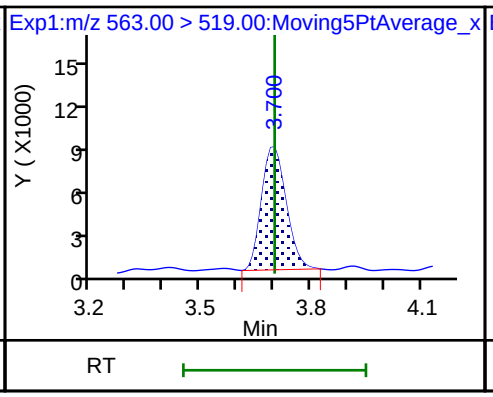
D 32 d5-NEtFOSAA



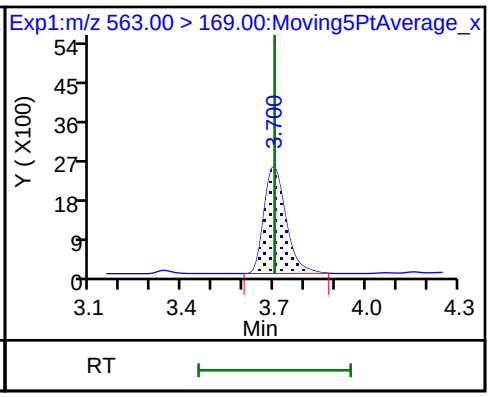
33 N-ethyl perfluorooctane sulfonamid



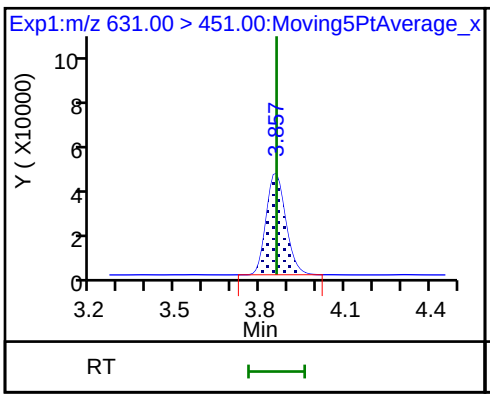
31 Perfluoroundecanoic acid



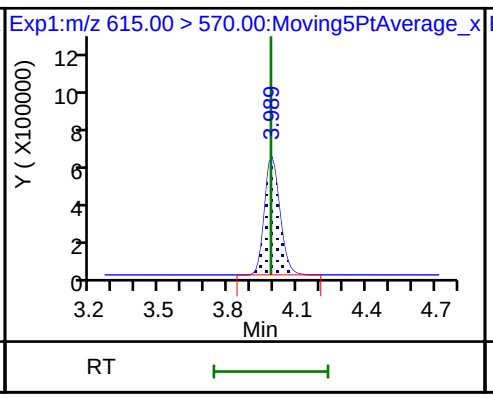
31 Perfluoroundecanoic acid



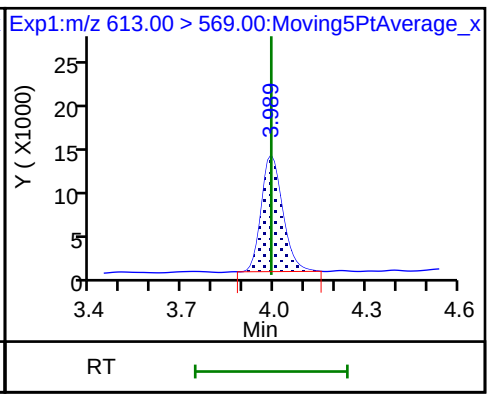
66 11-Chloroeicosafluoro-3-oxaundecan



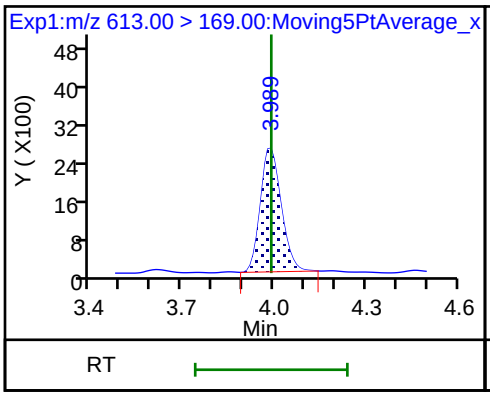
D 36 13C2 PFDoA



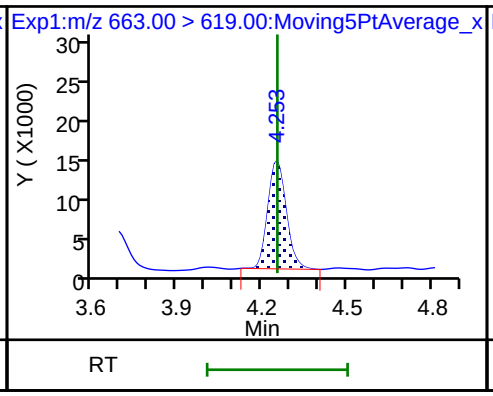
37 Perfluorododecanoic acid



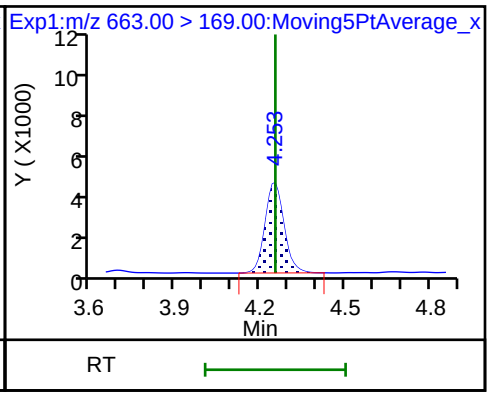
37 Perfluorododecanoic acid



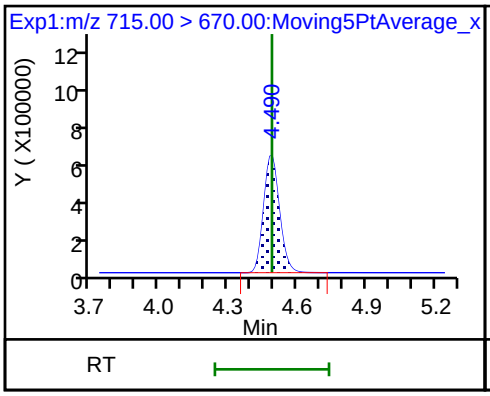
41 Perfluorotridecanoic acid



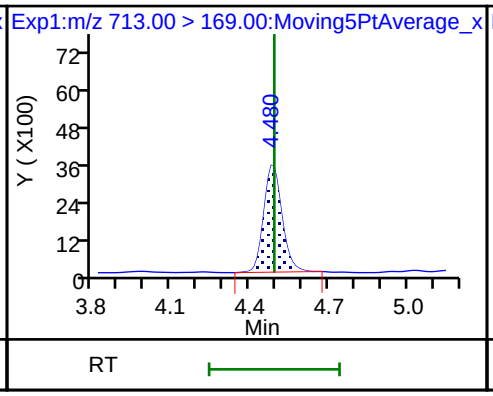
41 Perfluorotridecanoic acid



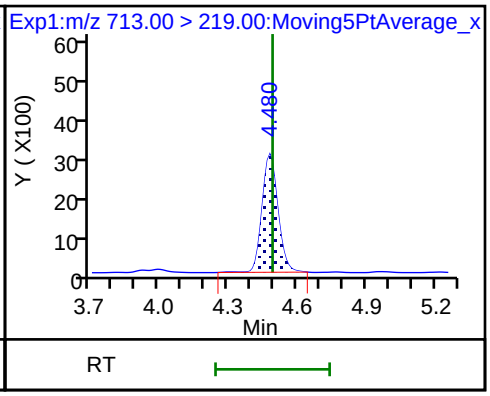
D 43 13C2-PFTeDA



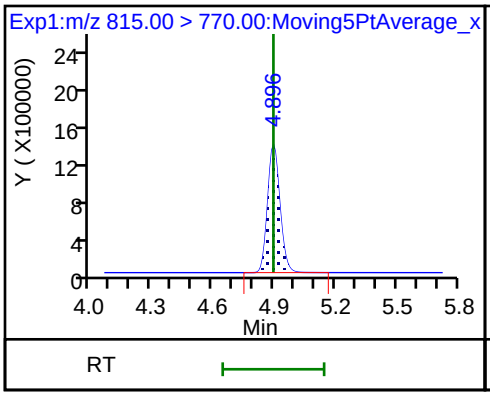
42 Perfluorotetradecanoic acid



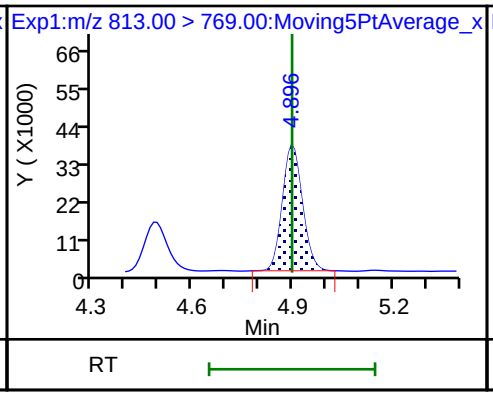
42 Perfluorotetradecanoic acid



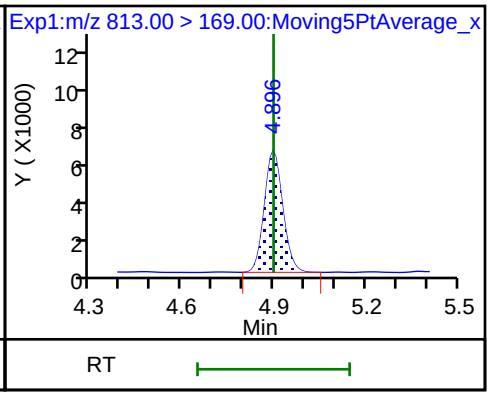
D 44 13C2-PFHxDA



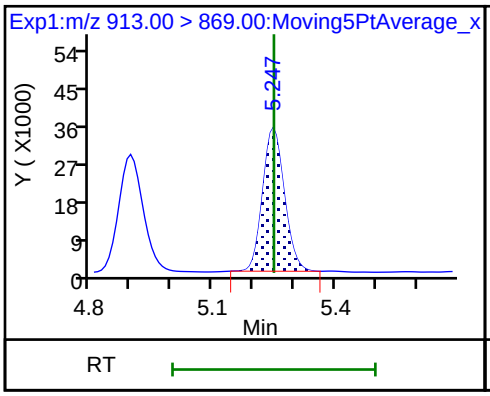
45 Perfluorohexadecanoic acid



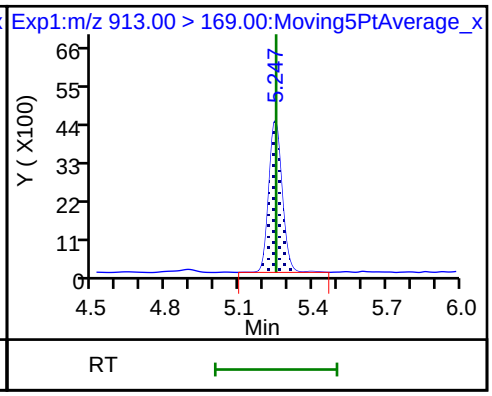
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

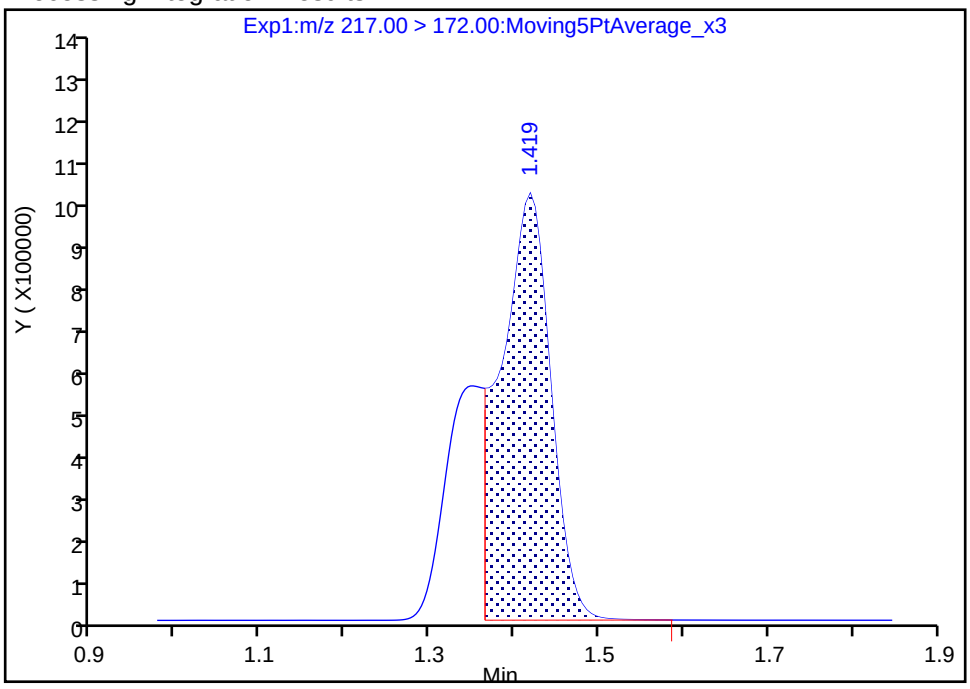
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d
Injection Date: 10-Jul-2018 20:14:21 Instrument ID: A8_N
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

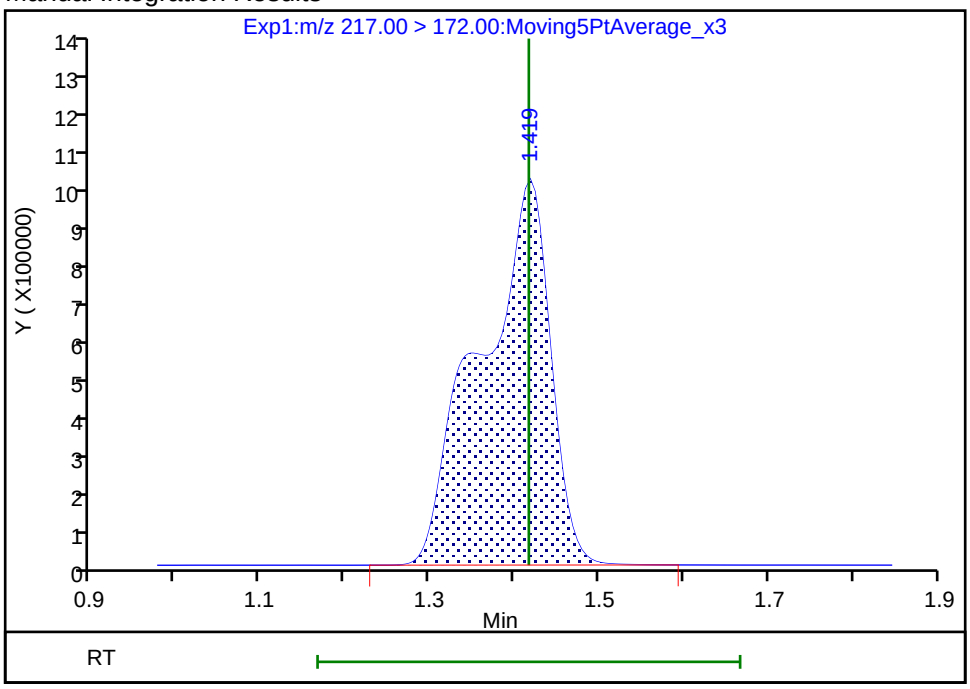
Processing Integration Results

RT: 1.42
Area: 4009232
Amount: 1.651807
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5701867
Amount: 2.349173
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jul-2018 14:49:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233302/3 Calibration Date: 07/10/2018 20:22

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.9810		0.960	1.00	-4.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.144		0.961	1.00	-3.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	74.47		0.868	0.884	-1.8	50.0
4:2 FTS	AveID	15.68	16.63		0.991	0.934	6.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.003		0.985	1.00	-1.5	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	69.39		1.00	0.938	7.0	50.0
HFPO-DA (GenX)	AveID	2.299	2.181		0.949	1.00	-5.1	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.055		0.934	1.00	-6.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.068		0.841	0.910	-7.6	40.0
ADONA	AveID	3.706	4.078		1.04	0.942	10.0	50.0
6:2 FTS	AveID	1.567	1.636		0.990	0.948	4.4	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.155		0.975	1.00	-2.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.389		0.987	0.952	3.7	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.111		1.03	1.00	3.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.153		0.916	0.928	-1.3	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.891	1.866		0.920	0.932	-1.3	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.7791		0.920	0.960	-4.1	50.0
8:2 FTS	AveID	1.321	1.246		0.903	0.958	-5.7	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	1.035		1.04	1.00	4.4	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.036		0.994	1.00	-0.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.041		1.01	1.00	1.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6715		0.900	0.964	-6.7	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8583		0.952	1.00	-4.8	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8201		0.965	1.00	-3.5	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.884	3.118		1.02	0.942	8.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.155		1.05	1.00	4.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.083		0.882	1.00	-11.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2674		0.987	1.00	-1.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9529		0.980	1.00	-2.0	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233302/3 Calibration Date: 07/10/2018 20:22

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.148		0.986	1.00	-1.4	50.0
13C4 PFBA	Ave	1.384	1.273		2.30	2.50	-8.0	50.0
13C5 PFPeA	Ave	1.025	0.9338		2.28	2.50	-8.9	50.0
13C3-PFBS	Ave	0.0245	0.0228		2.16	2.33	-7.0	50.0
M2-4:2FTS	Ave	0.1575	0.1583		2.35	2.34	0.5	50.0
13C2 PFHxA	Ave	1.097	1.052		2.40	2.50	-4.1	50.0
13C3 HFPO-DA	Ave	0.0899	0.0858		2.39	2.50	-4.5	50.0
13C4-PFHpA	Ave	0.9735	1.007		2.58	2.50	3.4	50.0
18O2 PFHxS	Ave	1.198	1.209		2.39	2.37	0.9	50.0
M2-6:2FTS	Ave	0.2186	0.2199		2.39	2.38	0.6	40.0
13C4 PFOA	Ave	0.9539	0.9580		2.51	2.50	0.4	50.0
13C4 PFOS	Ave	0.8551	0.8287		2.32	2.39	-3.1	50.0
13C5 PFNA	Ave	0.8109	0.8217		2.53	2.50	1.3	50.0
13C8 FOSA	Ave	1.187	1.114		2.35	2.50	-6.1	50.0
M2-8:2FTS	Ave	0.2431	0.2535		2.50	2.40	4.3	40.0
13C2 PFDA	Ave	0.6992	0.7076		2.53	2.50	1.2	50.0
d3-NMeFOSAA	Ave	0.4120	0.3896		2.36	2.50	-5.4	50.0
d5-NEtFOSAA	Ave	0.4070	0.4012		2.46	2.50	-1.4	50.0
13C2 PFUnA	Ave	0.5873	0.5677		2.42	2.50	-3.3	50.0
13C2 PFDoA	Ave	0.6294	0.6008		2.39	2.50	-4.5	50.0
13C2-PFTeDA	Ave	0.7673	0.7081		2.31	2.50	-7.7	50.0
13C2-PFHxDA	Ave	1.420	1.392		2.45	2.50	-1.9	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 20:22:10 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 14:51:35 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK002

First Level Reviewer: ruangyotsakuld Date: 11-Jul-2018 14:51:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.417	1.417	0.0	0.533	5377223	2.30		92.0	23100	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.417	1.417	0.0	1.000	2110103	0.9605		96.0	1053	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.708	1.708	0.0	1.000	1804957	0.9605		96.1	1385	
D 3 13C5-PFPeA										
267.90 > 223.00	1.708	1.717	-0.008	0.642	3944910	2.28		91.1	43881	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.753	0.0	0.659	89494	2.16		93.0	652	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.753	1.753	0.0	1.000	2533973	0.8684		98.2	16092	
298.90 > 99.00	1.753	1.753	0.0	1.000	1025627		2.47(1.25-3.74)		8668	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.967	0.0	0.740	624697	2.35		100	8467	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.967	0.0	1.122	597950	0.99		106	34886	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	2.000	0.0	1.000	1781898	0.9846		98.5	4813	
313.00 > 119.00	2.000	2.000	0.0	1.000	159665		11.16(5.03-15.10)		3939	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	2.011	-0.011	0.752	4443383	2.40		95.9	70413	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	2505508	1.00		107	33266	
349.00 > 99.00	2.022	2.022	0.0	1.154	930108		2.69(1.36-4.07)		13395	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.090	0.0	1.000	316385	0.9489		94.9	2498	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.101	-0.011	0.786	362589	2.39		95.5	6433	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.316	0.0	0.871	4252248	2.58		103	32465	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.316	0.0	1.000	1794028	0.9336		93.4	2471	
363.00 > 169.00	2.316	2.316	0.0	1.000	692404		2.59(1.13-3.40)		5206	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.329	0.0	0.876	4830205	2.39		101	33448	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.329	0.0	1.000	1985831	0.8409		92.4	11858	
399.00 > 99.00	2.329	2.329	0.0	1.000	675634		2.94(1.50-4.49)		4861	
65 Adona										
377.00 > 251.00	2.355	2.355	0.0	0.781	5379803	1.04		110	44057	
377.00 > 85.00	2.355	2.355	0.0	0.781	3084240		1.74(0.84-2.53)		35313	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.635	0.0	1.000	576280	0.99		104	2834	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.643	-0.008	0.991	882353	2.39		101	18588	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.659	0.0		4224633	2.50			36147	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.659	0.0	1.000	1872165	0.9753		97.4	609	
413.00 > 169.00	2.659	2.659	0.0	1.000	971737		1.93(0.84-2.52)		4937	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.666	-0.007	1.000	4046970	2.51		100	35679	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.666	0.0	0.884	1852267	0.9875		104	17815	
449.00 > 99.00	2.666	2.666	0.0	0.884	498426		3.72(1.94-5.82)		8537	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.017	3.017	0.0	1.000	1497875	0.9156		98.7	10342	
499.00 > 99.00	3.017	3.017	0.0	1.000	329440		4.55(2.31-6.93)		6332	
20 Perfluorononanoic acid										
463.00 > 419.00	3.017	3.017	0.0	1.000	1543122	1.03		103	3801	
463.00 > 169.00	3.017	3.017	0.0	1.000	366494		4.21(1.90-5.69)		13710	
D 19 13C5 PFNA										
468.00 > 423.00	3.017	3.022	-0.005	1.135	3471329	2.53		101	54214	
D 18 13C4 PFOS										
503.00 > 80.00	3.017	3.022	-0.005	1.135	3347070	2.32		96.9	30520	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.223	3.223	0.0	1.068	2435208	0.9198		98.7	38331	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.351	3.351	0.0	1.111	1047378	0.9203		95.9	20188	
549.00 > 99.00	3.351	3.351	0.0	1.111	382830		2.74(1.33-3.97)		9684	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.360	3.360	0.0	1.003	1948756	1.04		104	26094	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.360	3.360	0.0	1.000	511260	0.9035		94.3	14352	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.360	3.367	-0.007	1.264	1025815	2.50		104	16595	
D 21 13C8 FOSA										
506.00 > 78.00	3.351	3.367	-0.016	1.261	4706419	2.35		93.9	59565	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.370	3.370	0.0	1.000	1239012	0.99		99.4	5612	
513.00 > 169.00	3.370	3.370	0.0	1.000	212822		5.82(2.36-7.09)		9726	
D 23 13C2 PFDA										
515.00 > 470.00	3.370	3.376	-0.006	1.268	2989486	2.53		101	33993	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.519	3.526	-0.007	1.324	1646080	2.36		94.6	25924	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.529	0.0	1.003	685527	1.01		101	5814	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.676	3.676	0.0	1.218	906555	0.8997		93.3	13749	
599.00 > 99.00	3.676	3.676	0.0	1.218	320938		2.82(1.39-4.16)		8558	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.687	3.687	0.0	0.997	786814	0.9647		96.5	3577	
563.00 > 169.00	3.687	3.687	0.0	0.997	193907		4.06(2.12-6.36)		5715	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.687	3.687	0.0	1.000	581960	0.9519		95.2	9951	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.687	3.694	-0.007	1.387	1695053	2.46		98.6	12557	
D 30 13C2 PFUnA										
565.00 > 520.00	3.697	3.694	0.003	1.391	2398462	2.42		96.7	33221	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.844	3.844	0.0	1.274	4112861	1.02		108	37215	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.985	0.003	1.500	2538193	2.39		95.5	13713	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.988	0.0	1.000	1172478	1.05		105	1440	
613.00 > 169.00	3.988	3.988	0.0	1.000	263346		4.45(2.13-6.40)		6862	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.241	4.241	0.0	1.064	1099525	0.8823		88.2	1293	
663.00 > 169.00	4.241	4.241	0.0	1.064	354309		3.10(1.25-3.76)		6015	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.480	4.480	0.0	1.000	319893	0.9874		98.7	5561	
713.00 > 219.00	4.480	4.480	0.0	1.000	214347		1.49(0.71-2.13)		6342	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.480	4.489	-0.009	1.685	2991288	2.31		92.3	15763	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.887	4.887	0.0	1.000	2241723	0.9803		98.0	1161	
813.00 > 169.00	4.887	4.887	0.0	1.000	364229		6.15(2.86-8.58)		4146	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.887	4.895	-0.008	1.838	5881344	2.45		98.1	13587	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.240	5.240	0.0	1.072	2699773	0.9859		98.6	983	
913.00 > 169.00	5.240	5.240	0.0	1.072	323854		8.34(3.83-11.48)		4367	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 14:51:36 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d

Injection Date: 10-Jul-2018 20:22:10 Instrument ID: A8_N

Lims ID: CCV L4

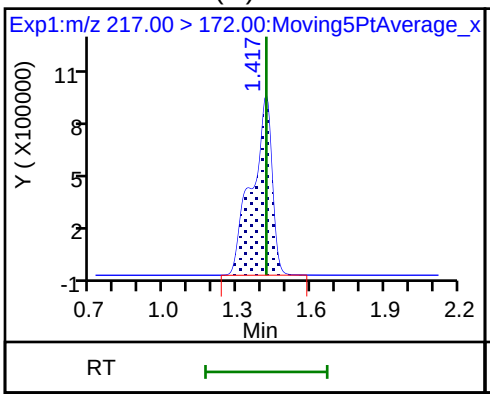
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3

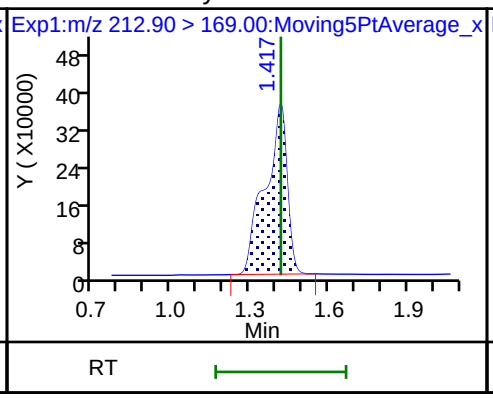
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

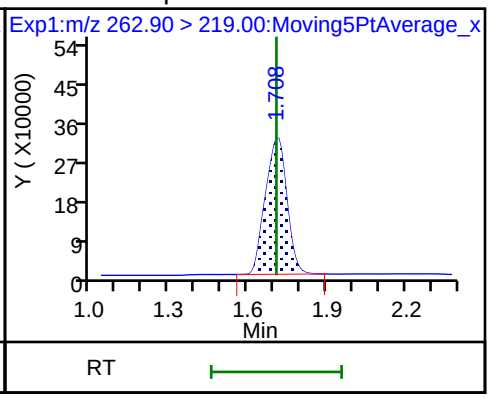
D 1 13C4 PFBA (M)



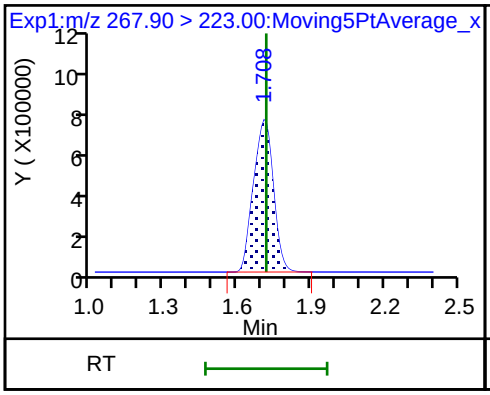
2 Perfluorobutyric acid



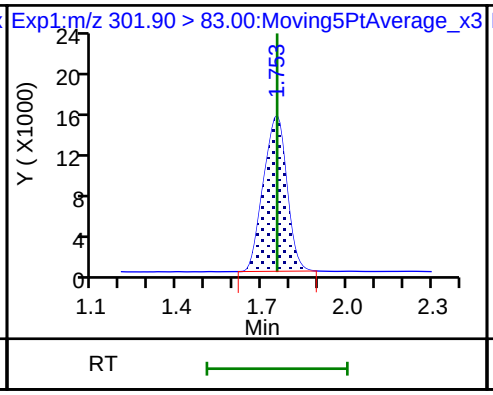
4 Perfluoropentanoic acid



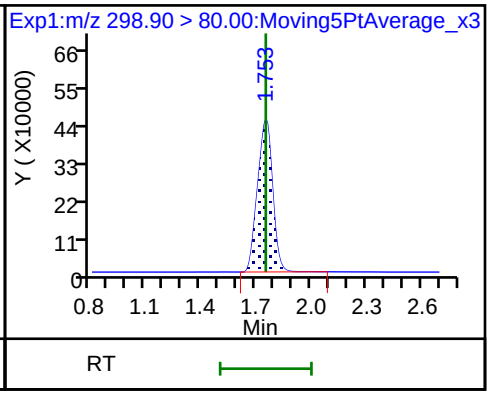
D 3 13C5-PFPeA



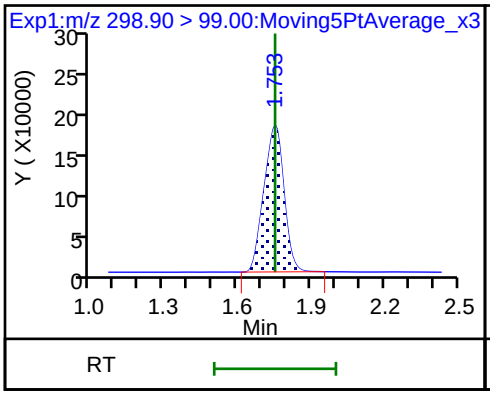
D 47 13C3-PFBS



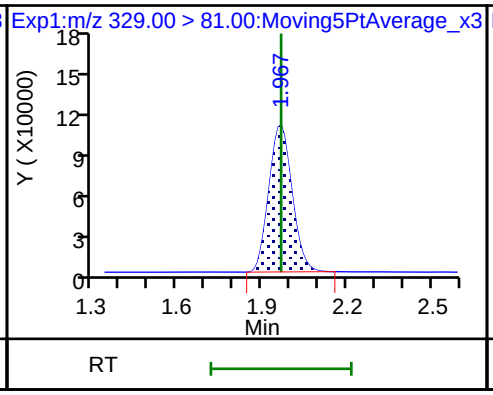
5 Perfluorobutanesulfonic acid



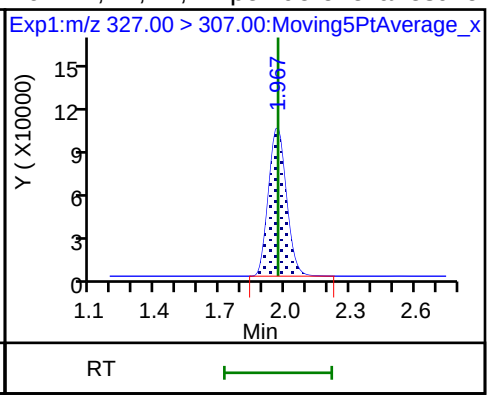
5 Perfluorobutanesulfonic acid



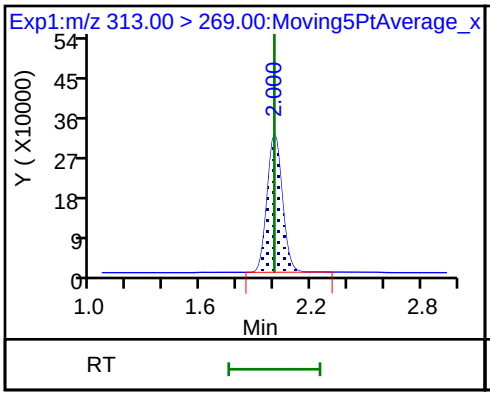
D 60 M2-4:2FTS



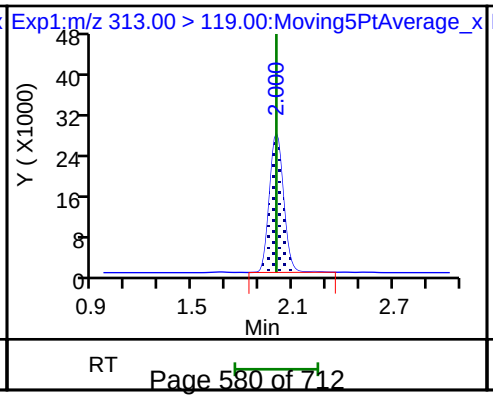
61 1H,1H,2H,2H-perfluorohexanesulfoni



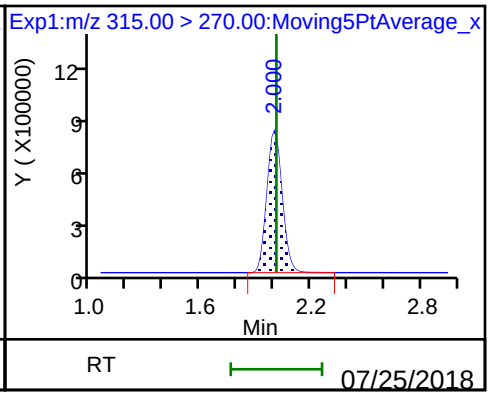
6 Perfluorohexanoic acid



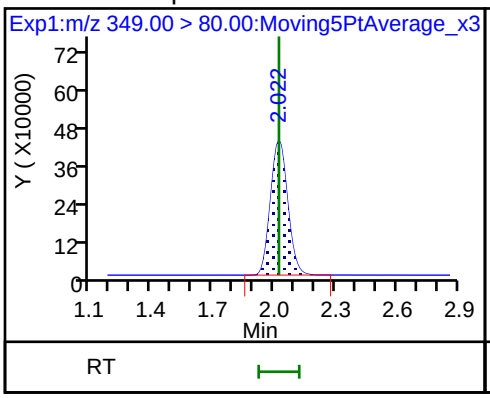
6 Perfluorohexanoic acid



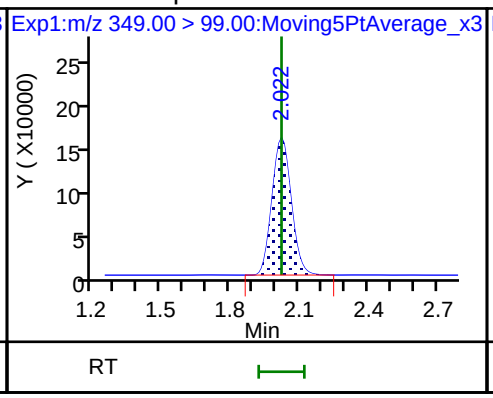
D 7 13C2 PFHxA



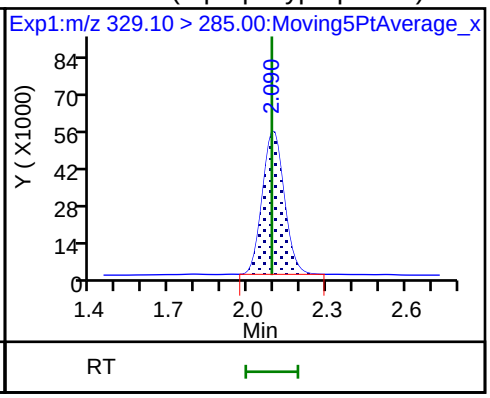
70 Perfluoropentanesulfonic acid



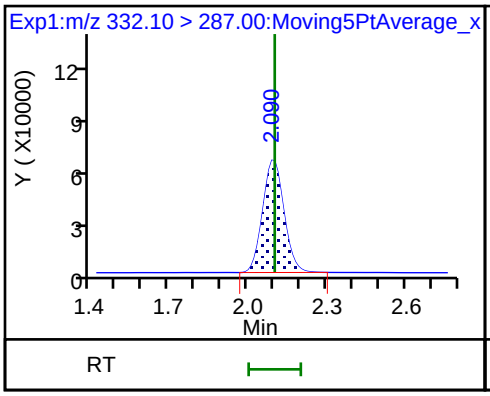
70 Perfluoropentanesulfonic acid



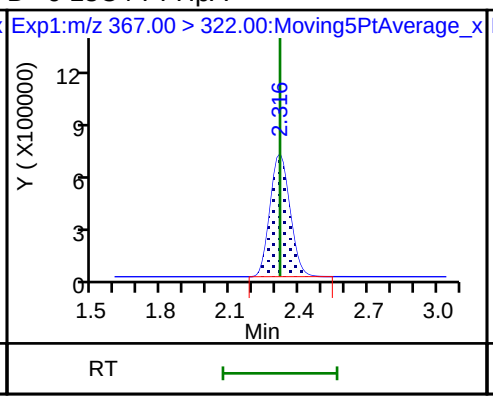
67 Perfluoro(2-propoxypropanoic) acid



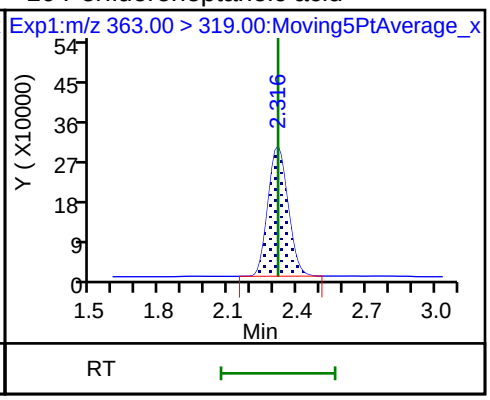
D 64 13C3 HFPO-DA



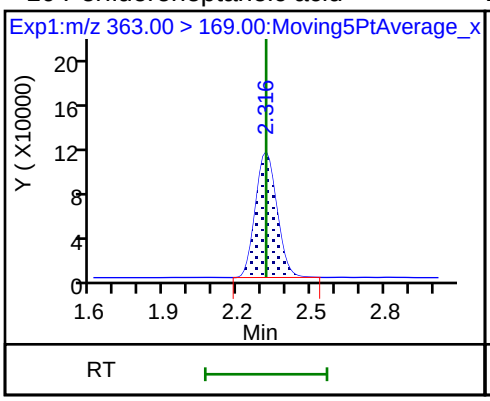
D 9 13C4-PFHpA



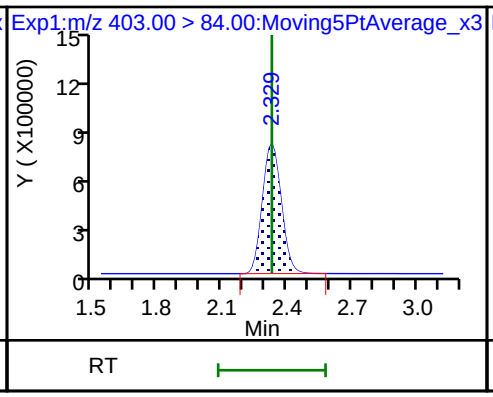
10 Perfluoroheptanoic acid



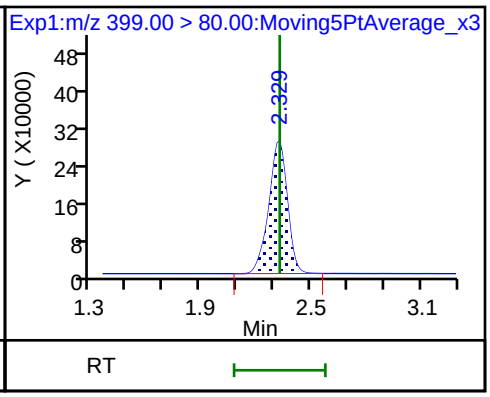
10 Perfluoroheptanoic acid



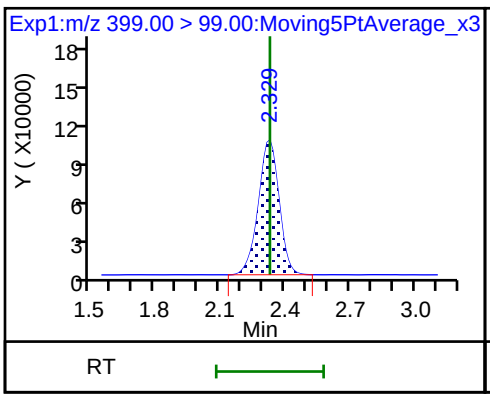
D 11 18O2 PFHxS



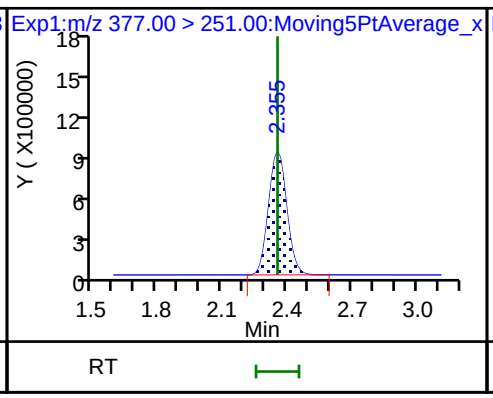
8 Perfluorohexanesulfonic acid



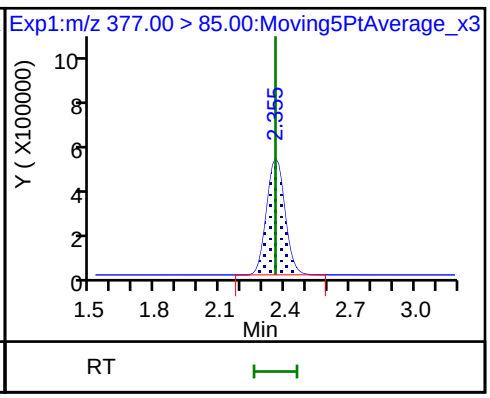
8 Perfluorohexanesulfonic acid



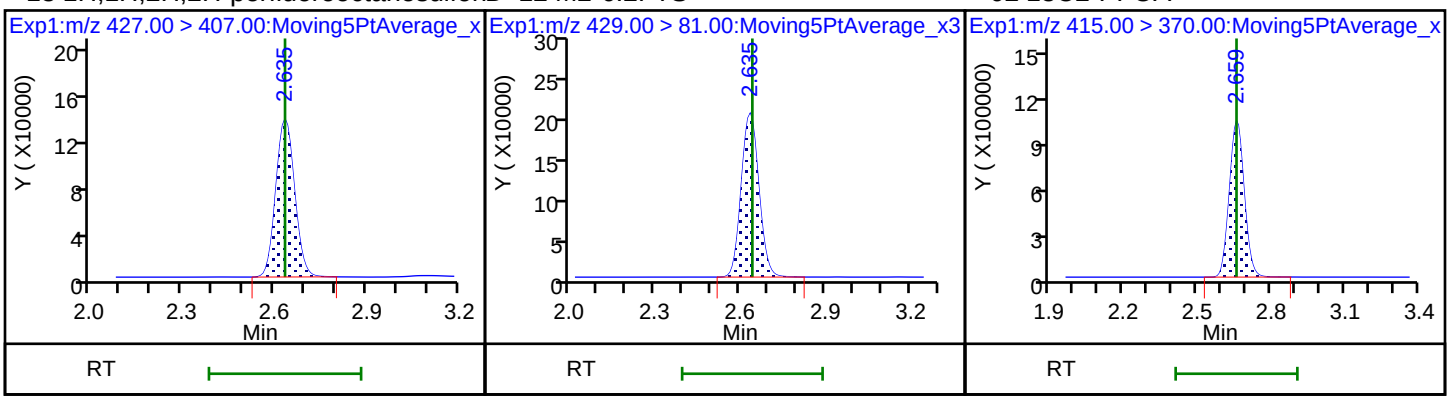
65 Adona



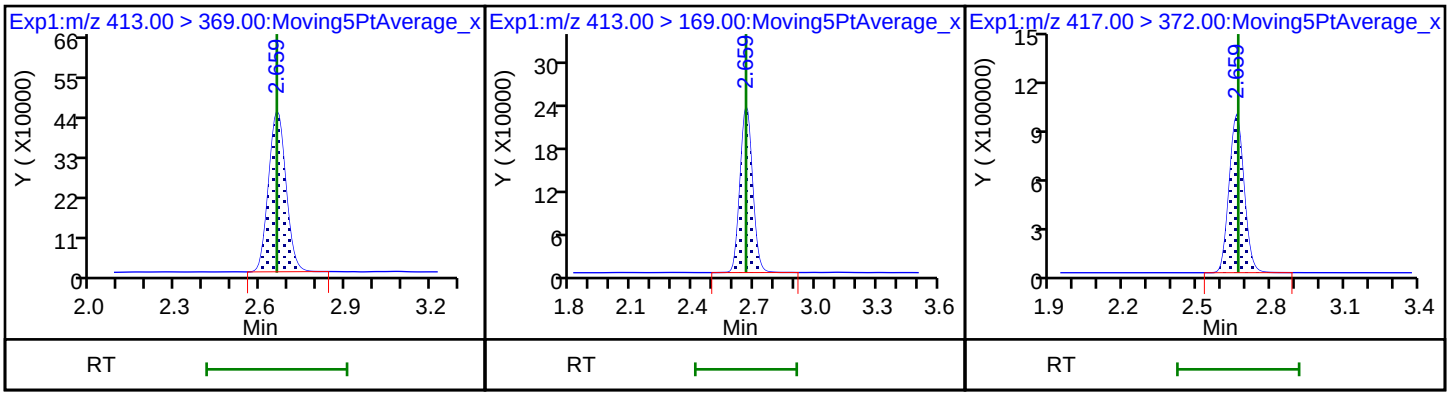
65 Adona



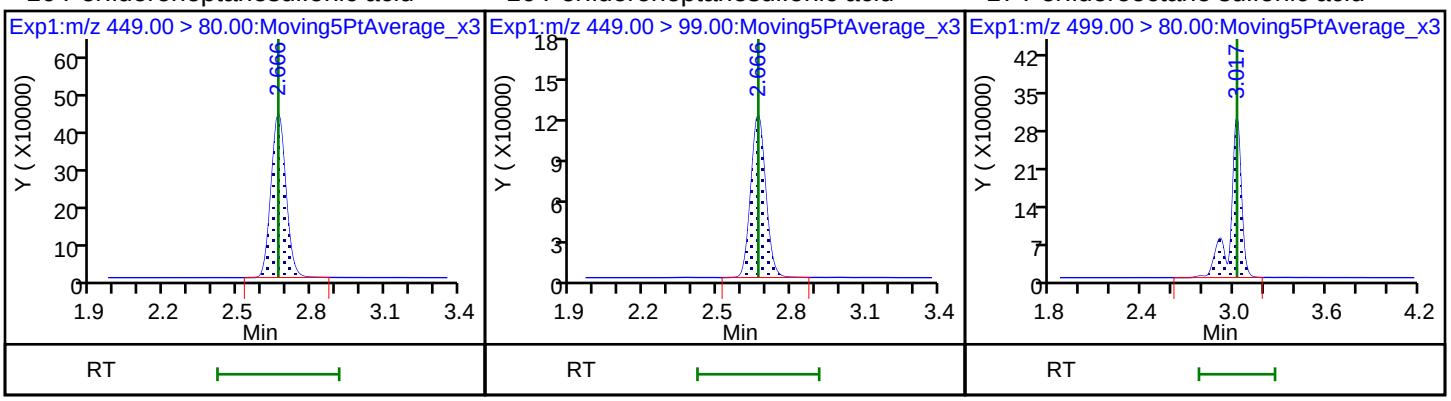
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



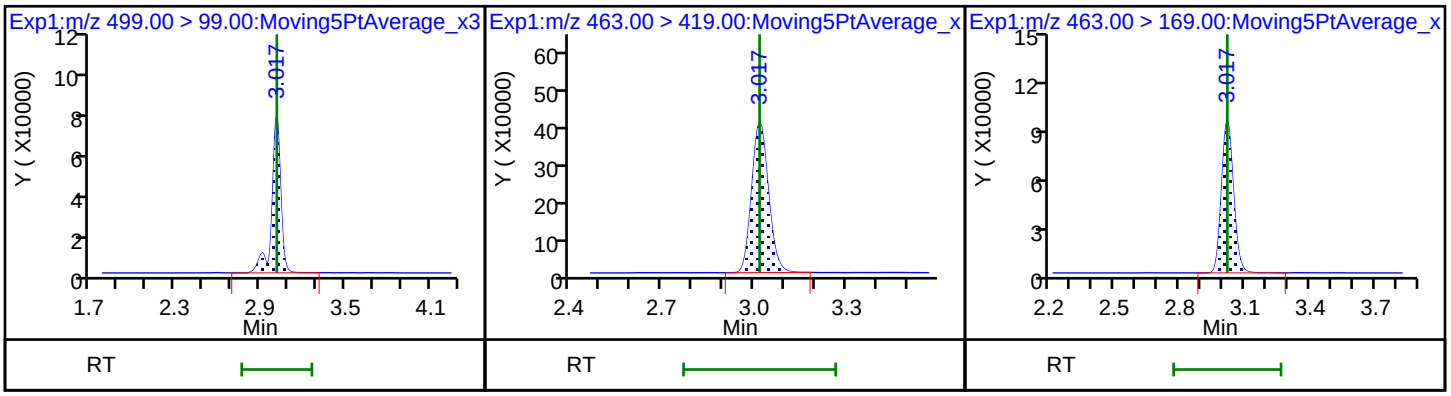
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



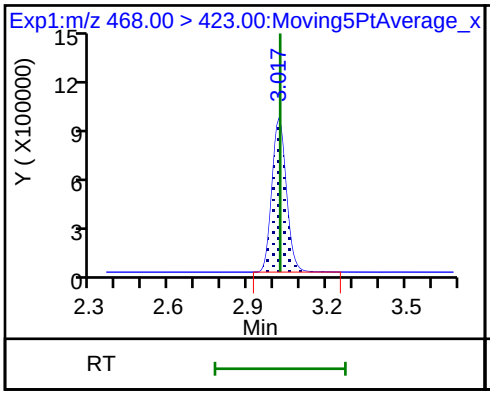
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



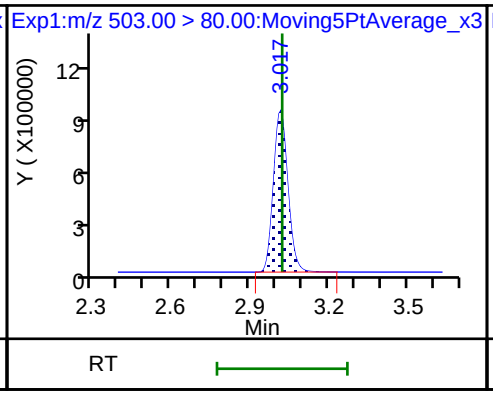
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



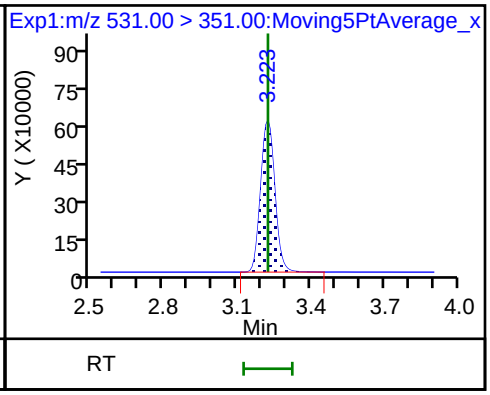
D 19 13C5 PFNA



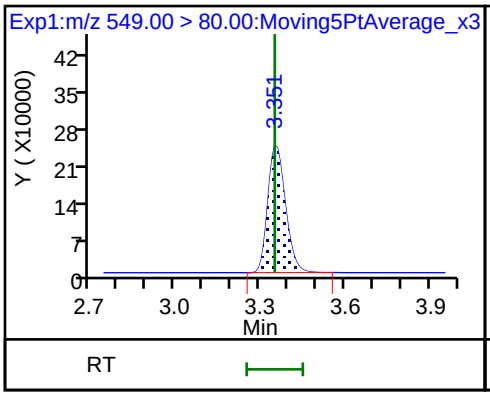
D 18 13C4 PFOS



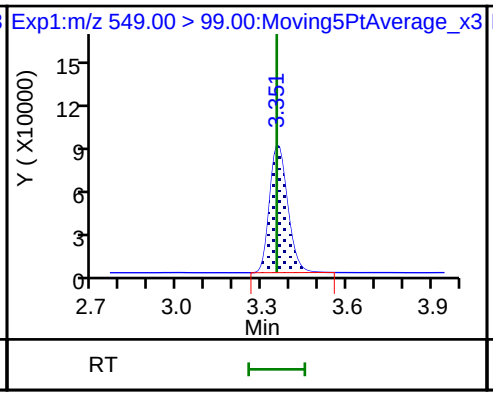
69 9-Chlorohexadecafluoro-3-oxanonane



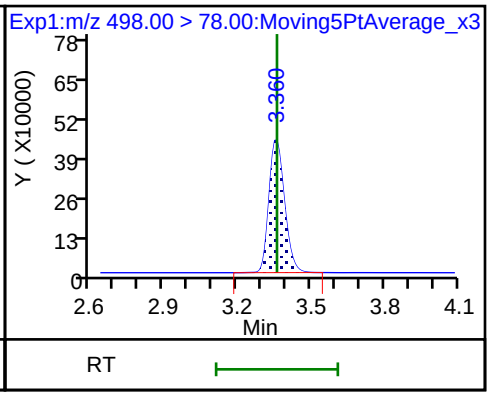
68 Perfluorononanesulfonic acid



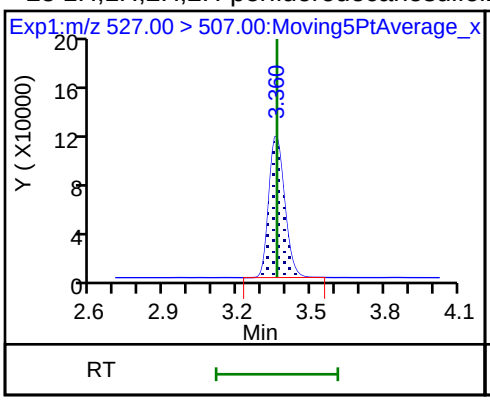
68 Perfluorononanesulfonic acid



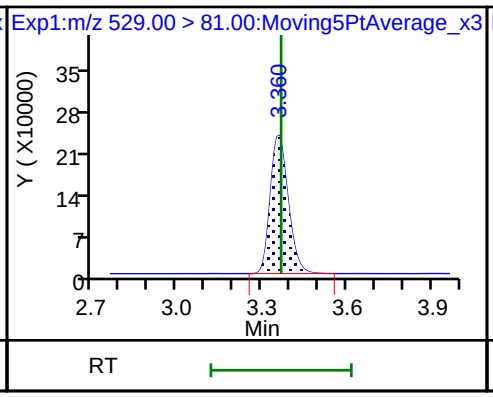
22 Perfluorooctane Sulfonamide



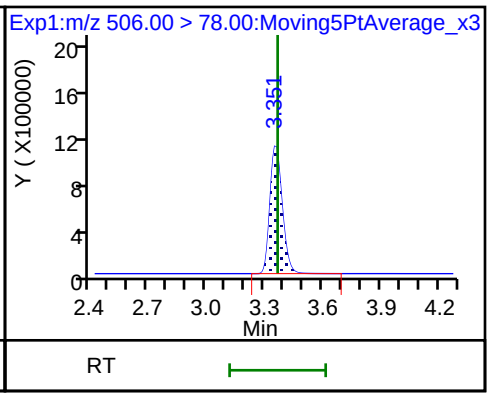
25 1H,1H,2H,2H-perfluorodecanesulfon



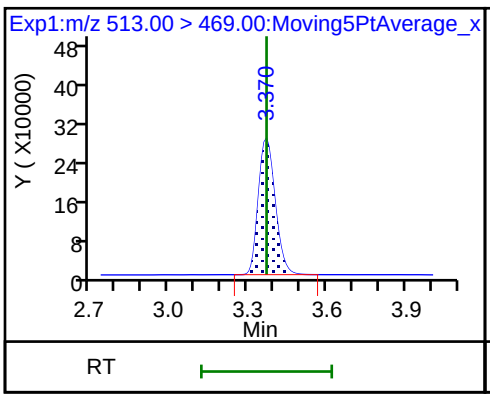
D 26 M2-8:2FTS



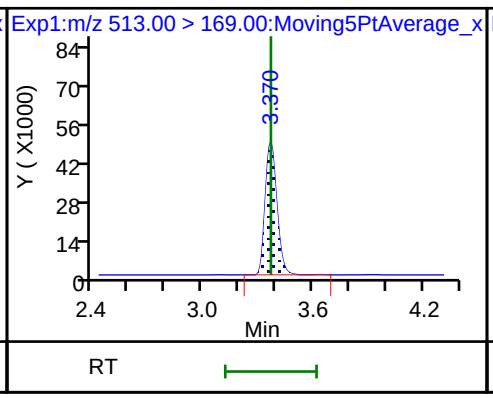
D 21 13C8 FOSA



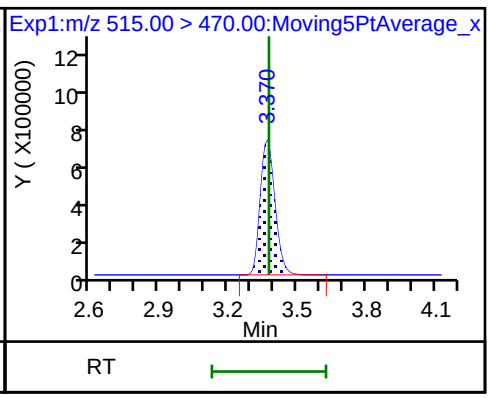
24 Perfluorodecanoic acid



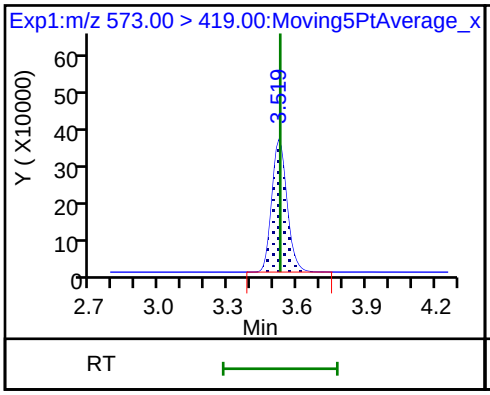
24 Perfluorodecanoic acid



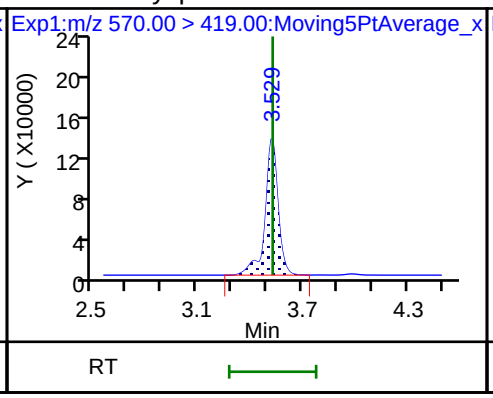
D 23 13C2 PFDA



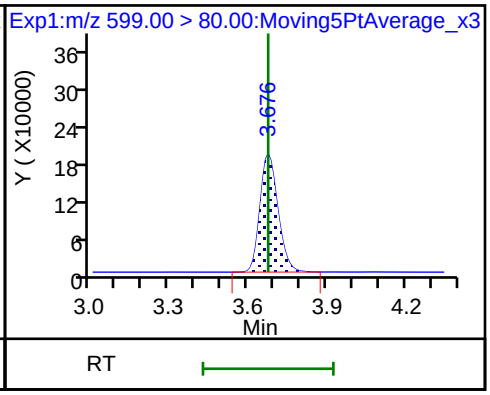
D 27 d3-NMeFOSAA



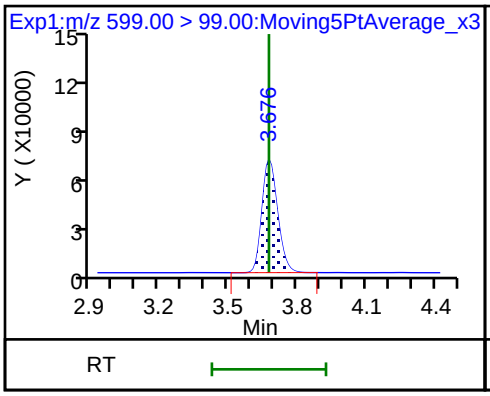
28 N-methyl perfluorooctane sulfonami



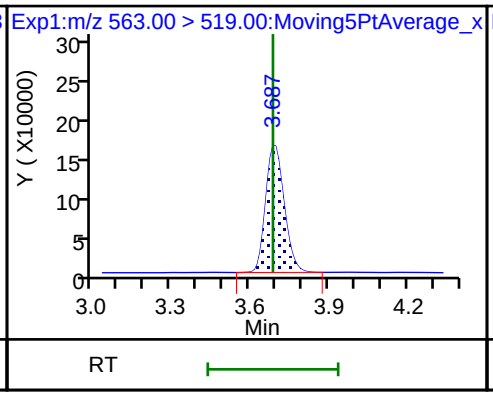
29 Perfluorodecane Sulfonic acid



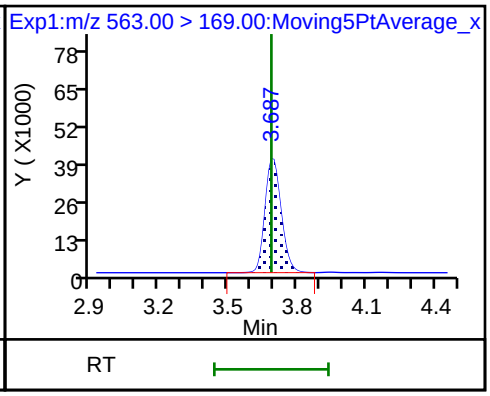
29 Perfluorodecane Sulfonic acid



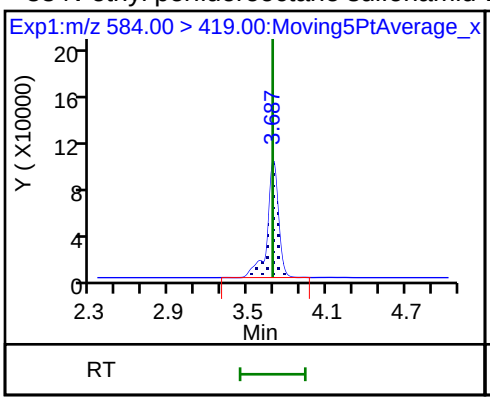
31 Perfluoroundecanoic acid



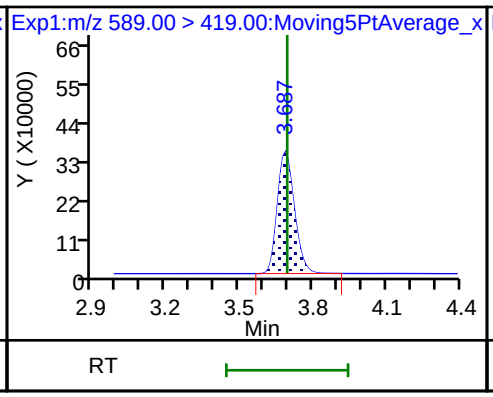
31 Perfluoroundecanoic acid



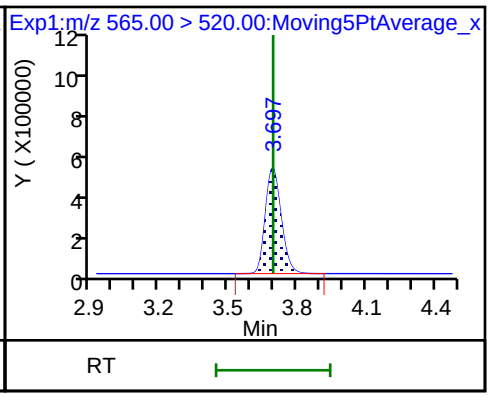
33 N-ethyl perfluorooctane sulfonamid



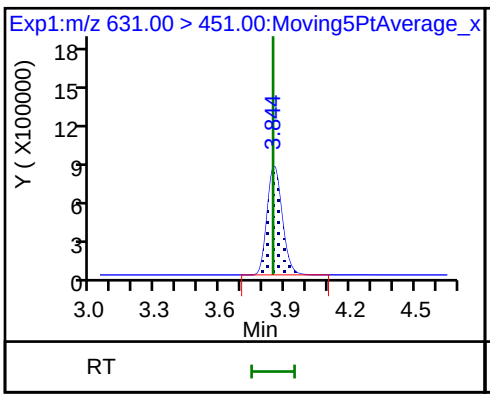
D 32 d5-NEtFOSAA



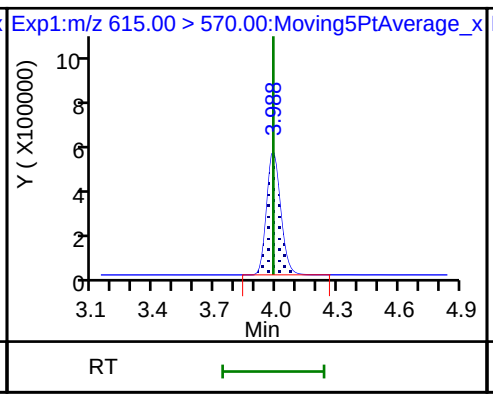
D 30 13C2 PFUnA



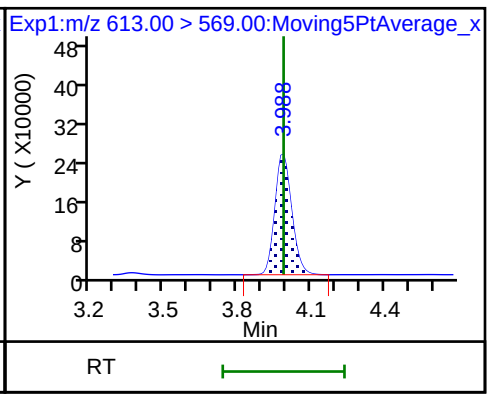
66 11-Chloroeicosafluoro-3-oxaundecan



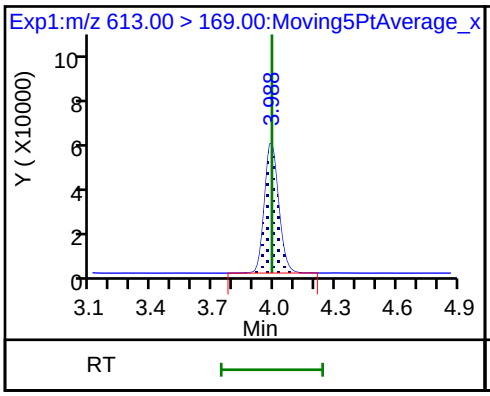
D 36 13C2 PFDoA



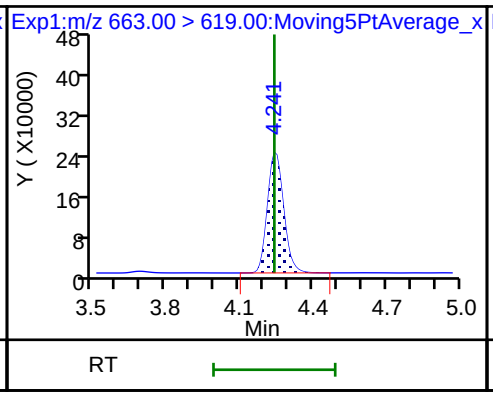
37 Perfluorododecanoic acid



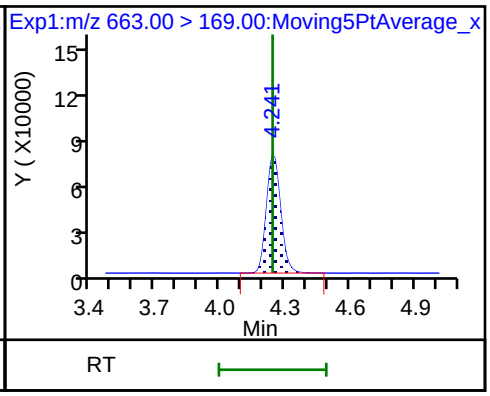
37 Perfluorododecanoic acid



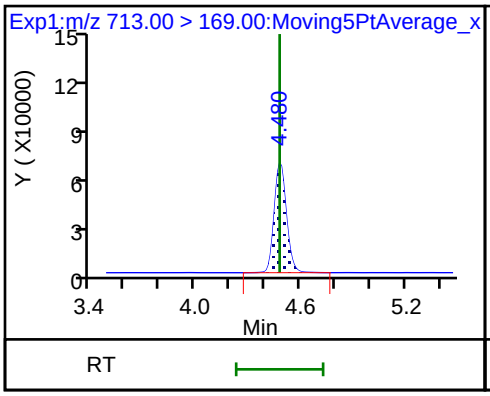
41 Perfluorotridecanoic acid



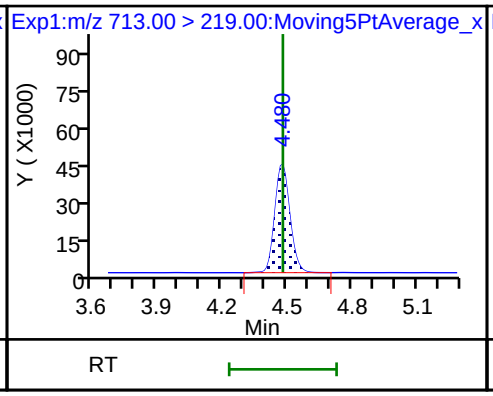
41 Perfluorotridecanoic acid



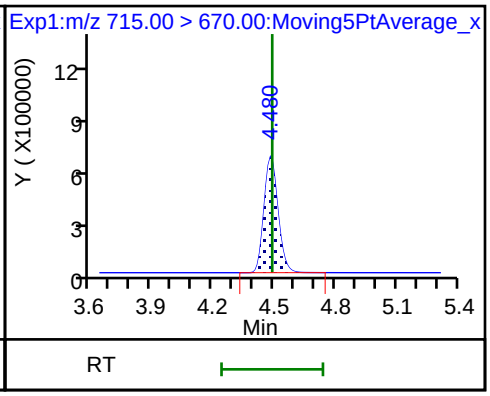
42 Perfluorotetradecanoic acid



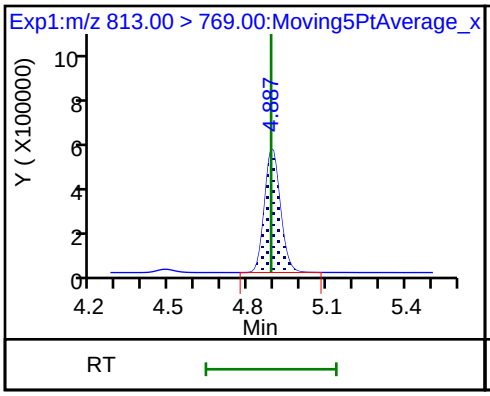
42 Perfluorotetradecanoic acid



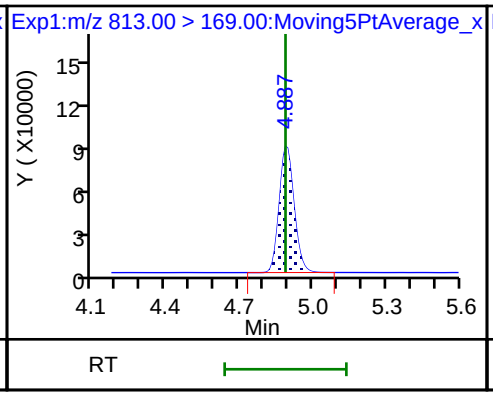
D 43 13C2-PFTeDA



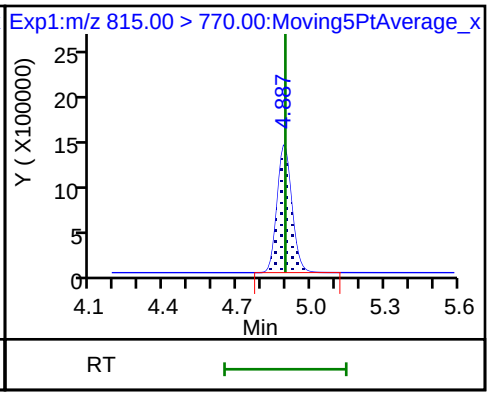
45 Perfluorohexadecanoic acid



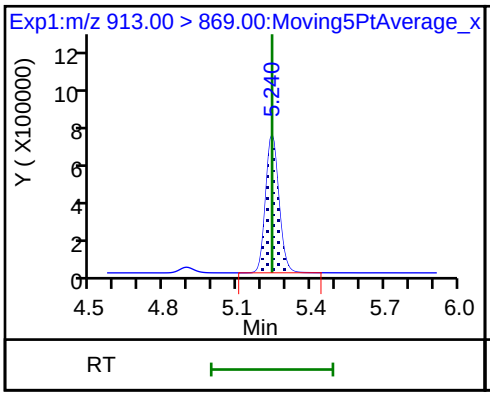
45 Perfluorohexadecanoic acid



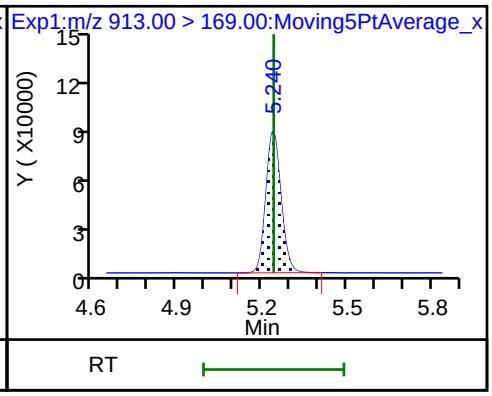
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

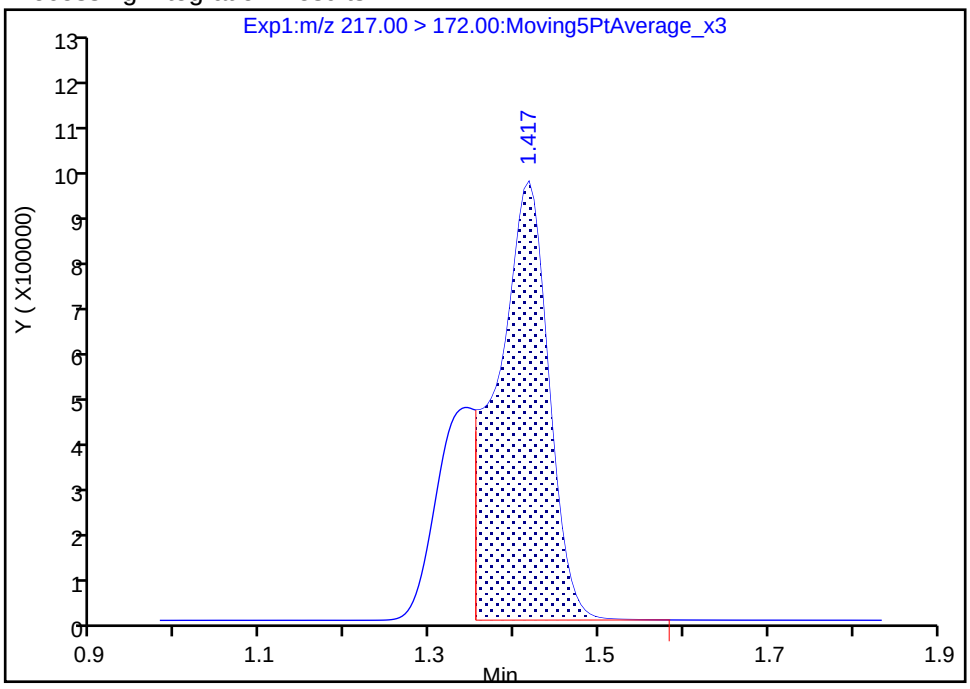
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d
Injection Date: 10-Jul-2018 20:22:10 Instrument ID: A8_N
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

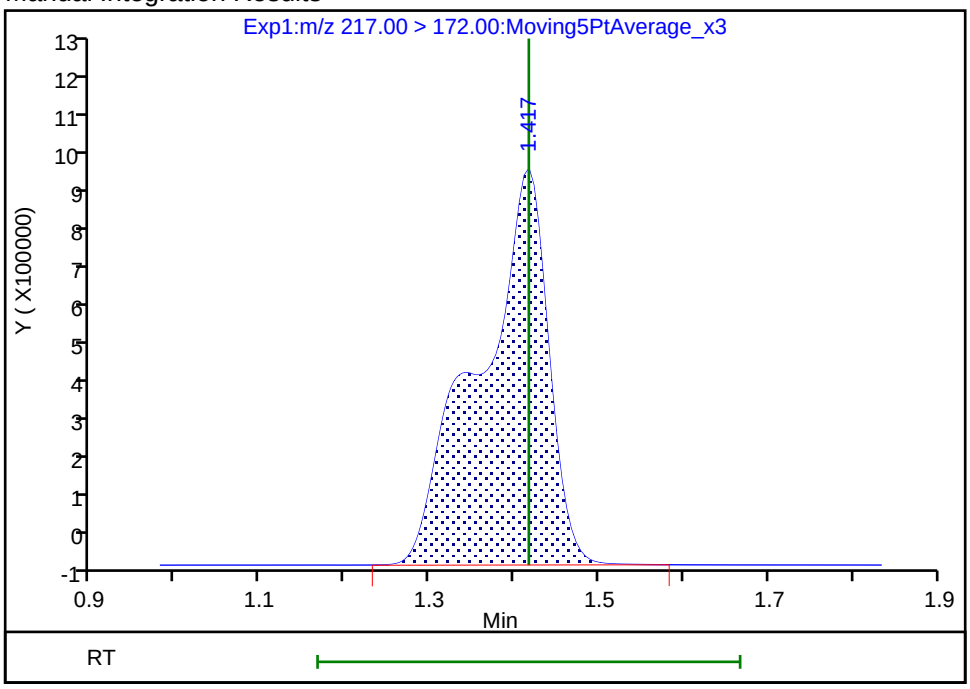
Processing Integration Results

RT: 1.42
Area: 3945996
Amount: 1.686928
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5377223
Amount: 2.298782
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jul-2018 14:51:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/1 Calibration Date: 07/11/2018 01:43

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_047.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.9939		0.973	1.00	-2.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.145		0.962	1.00	-3.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	78.03		0.910	0.884	2.9	50.0
4:2 FTS	AveID	15.68	16.60		0.988	0.934	5.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.012		0.994	1.00	-0.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	67.03		0.970	0.938	3.4	50.0
HFPO-DA (GenX)	AveID	2.299	2.545		1.11	1.00	10.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.076		0.953	1.00	-4.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.093		0.861	0.910	-5.4	40.0
ADONA	AveID	3.706	4.038		1.03	0.942	9.0	50.0
6:2 FTS	AveID	1.567	1.498		0.906	0.948	-4.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.389		0.987	0.952	3.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.174		0.991	1.00	-1.0	40.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.049		0.973	1.00	-2.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.147		0.911	0.928	-1.8	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.891	1.804		0.889	0.932	-4.6	50.0
8:2 FTS	AveID	1.321	1.221		0.885	0.958	-7.6	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.8005		0.946	0.960	-1.5	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9737		0.982	1.00	-1.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.021		0.979	1.00	-2.1	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.008		0.979	1.00	-2.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6937		0.929	0.964	-3.6	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8399		0.931	1.00	-6.9	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.9108		1.07	1.00	7.1	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.884	3.199		1.04	0.942	10.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.092		0.991	1.00	-0.9	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.036		0.844	1.00	-15.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2504		0.925	1.00	-7.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9798		1.01	1.00	0.9	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/1 Calibration Date: 07/11/2018 01:43

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_047.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.181		1.01	1.00	1.5	50.0
13C4 PFBA	Ave	1.384	1.275		2.30	2.50	-7.9	50.0
13C5 PFPeA	Ave	1.025	0.9673		2.36	2.50	-5.6	50.0
13C3-PFBS	Ave	0.0245	0.0227		2.16	2.33	-7.2	50.0
M2-4:2FTS	Ave	0.1575	0.1606		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.097	1.037		2.36	2.50	-5.5	50.0
13C3 HFPO-DA	Ave	0.0899	0.0792		2.20	2.50	-11.8	50.0
13C4-PFHpA	Ave	0.9735	0.9432		2.42	2.50	-3.1	50.0
18O2 PFHxS	Ave	1.198	1.221		2.41	2.37	1.9	50.0
M2-6:2FTS	Ave	0.2186	0.2348		2.55	2.38	7.4	40.0
13C4 PFOA	Ave	0.9539	0.9579		2.51	2.50	0.4	50.0
13C4 PFOS	Ave	0.8551	0.8223		2.30	2.39	-3.8	50.0
13C5 PFNA	Ave	0.8109	0.8056		2.48	2.50	-0.7	50.0
13C8 FOSA	Ave	1.187	1.196		2.52	2.50	0.7	50.0
M2-8:2FTS	Ave	0.2431	0.2551		2.51	2.40	4.9	40.0
13C2 PFDA	Ave	0.6992	0.7055		2.52	2.50	0.9	50.0
d3-NMeFOSAA	Ave	0.4120	0.3919		2.38	2.50	-4.9	50.0
13C2 PFUnA	Ave	0.5873	0.5494		2.34	2.50	-6.5	50.0
d5-NEtFOSAA	Ave	0.4070	0.4093		2.51	2.50	0.6	50.0
13C2 PFDoA	Ave	0.6294	0.6404		2.54	2.50	1.7	50.0
13C2-PFTeDA	Ave	0.7673	0.7003		2.28	2.50	-8.7	50.0
13C2-PFHxDA	Ave	1.420	1.362		2.40	2.50	-4.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_047.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Jul-2018 01:43:12 ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:34:40 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:34:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.425	1.425	0.0	0.537	5199468	2.30		92.1	17135	
2 Perfluorobutyric acid										
212.90 > 169.00	1.425	1.425	0.0	1.000	2067135	0.9731		97.3	1160	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.712	0.0	1.000	1806574	0.9616		96.2	1384	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.712	0.0	0.645	3944035	2.36		94.4	35546	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.748	0.0	0.659	86220	2.16		92.8	743	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.748	1.748	0.0	1.000	2558148	0.9100		103	11258	
298.90 > 99.00	1.748	1.748	0.0	1.000	1000674		2.56(1.25-3.74)		9320	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.950	1.950	0.0	1.115	574794	0.9884		106	25569	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.961	-0.001	0.739	611403	2.38		102	9054	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.993	0.0	1.000	1711475	0.99		99.4	3723	
313.00 > 119.00	1.993	1.993	0.0	1.000	156113		10.96(5.03-15.10)		3093	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.994	-0.001	0.751	4226467	2.36		94.5	43318	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.016	0.0	1.153	2331740	0.9696		103	28515	
349.00 > 99.00	2.016	2.016	0.0	1.153	853729		2.73(1.36-4.07)		13247	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.084	2.084	0.0	0.786	323023	2.20		88.2	8127	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.084	2.084	0.0	1.000	328827	1.11		111	1820	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.308	2.308	0.0	1.000	1655268	0.9525		95.3	2233	
363.00 > 169.00	2.308	2.308	0.0	1.000	675135		2.45(1.13-3.40)		4873	
D 9 13C4-PFHpA										
367.00 > 322.00	2.308	2.309	-0.001	0.870	3845495	2.42		96.9	30324	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.308	2.308	0.0	0.994	1981449	0.8606		94.6	10099	
399.00 > 99.00	2.308	2.308	0.0	0.994	653944		3.03(1.50-4.49)		4629	
D 11 18O2 PFHxS										
403.00 > 84.00	2.321	2.322	-0.001	0.875	4709631	2.41		102	40955	
65 Adona										
377.00 > 251.00	2.347	2.347	0.0	0.780	5101567	1.03		109	37589	
377.00 > 85.00	2.347	2.347	0.0	0.780	3042358		1.68(0.84-2.53)		32466	
D 12 M2-6:2FTS										
429.00 > 81.00	2.620	2.621	-0.001	0.988	909561	2.55		107	16396	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.620	2.620	0.0	1.000	543729	0.9063		95.6	2747	
* 62 13C2-PFOA										
415.00 > 370.00	2.652	2.652	0.0		4077182	2.50			30115	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.652	2.652	0.0	1.003	1836260	0.99		99.0	609	
413.00 > 169.00	2.652	2.652	0.0	1.003	924227		1.99(0.84-2.52)		3516	
D 14 13C4 PFOA										
417.00 > 372.00	2.644	2.653	-0.009	0.997	3905589	2.51		100	29402	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.652	2.652	0.0	0.881	1773596	0.9874		104	19055	
449.00 > 99.00	2.652	2.652	0.0	0.881	468176		3.79(1.94-5.82)		10088	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.009	3.009	0.0	1.000	1427219	0.9111		98.2	15758	
499.00 > 99.00	3.009	3.009	0.0	1.000	319211		4.47(2.31-6.93)		8168	
D 19 13C5 PFNA										
468.00 > 423.00	3.009	3.010	-0.001	1.134	3284633	2.48		99.3	37255	
D 18 13C4 PFOS										
503.00 > 80.00	3.009	3.010	-0.001	1.134	3205175	2.30		96.2	26107	
20 Perfluorononanoic acid										
463.00 > 419.00	3.009	3.009	0.0	1.000	1377580	0.9730		97.3	4725	
463.00 > 169.00	3.009	3.009	0.0	1.000	363960		3.78(1.90-5.69)		18907	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.214	3.214	0.0	1.068	2254288	0.8892		95.4	25483	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.350	3.350	0.0	1.000	486607	0.8855		92.4	9276	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.350	3.350	0.0	1.113	1030533	0.9456		98.5	16102	
549.00 > 99.00	3.350	3.350	0.0	1.113	403042		2.56(1.33-3.97)		7245	
D 26 M2-8:2FTS										
529.00 > 81.00	3.350	3.351	-0.001	1.263	996238	2.51		105	16420	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.350	3.351	-0.001	1.263	4875617	2.52		101	30769	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.350	3.350	0.0	1.000	1898923	0.9818		98.2	27626	
D 23 13C2 PFDA										
515.00 > 470.00	3.359	3.361	-0.002	1.266	2876381	2.52		101	30262	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.359	3.359	0.0	1.000	1174365	0.9793		97.9	5037	
513.00 > 169.00	3.359	3.359	0.0	1.000	213538		5.50(2.36-7.09)		8136	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.518	3.518	0.0	1.003	644318	0.9794		97.9	5183	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.509	3.519	-0.010	1.323	1597982	2.38		95.1	14613	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.675	3.675	0.0	1.221	896838	0.9294		96.4	17209	
599.00 > 99.00	3.675	3.675	0.0	1.221	308135		2.91(1.39-4.16)		16208	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.685	3.685	0.0	1.000	816166	1.07		107	3467	
563.00 > 169.00	3.685	3.685	0.0	1.000	181174		4.50(2.12-6.36)		4696	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.685	3.687	-0.002	1.389	1668755	2.51		101	13571	
D 30 13C2 PFUnA										
565.00 > 520.00	3.685	3.687	-0.002	1.389	2240139	2.34		93.5	20508	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.685	3.685	0.0	1.000	560614	0.9315		93.1	8150	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.842	3.842	0.0	1.277	4041245	1.04		111	77510	
D 36 13C2 PFDoA										
615.00 > 570.00	3.975	3.977	-0.002	1.499	2610885	2.54		102	11559	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.975	3.975	0.0	1.000	1140091	0.99		99.1	1534	
613.00 > 169.00	3.975	3.975	0.0	1.000	277083		4.11(2.13-6.40)		5922	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.240	4.240	0.0	1.067	1081726	0.8438		84.4	1332	
663.00 > 169.00	4.240	4.240	0.0	1.067	346480		3.12(1.25-3.76)		5841	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.479	4.479	0.0	1.000	285979	0.9247		92.5	4248	
713.00 > 219.00	4.479	4.479	0.0	1.000	213983		1.34(0.71-2.13)		7418	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.479	4.480	-0.001	1.689	2855422	2.28		91.3	11092	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.886	4.887	-0.001	1.842	5551215	2.40		95.9	11343	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.886	4.886	0.0	1.000	2175528	1.01		101	1210	
813.00 > 169.00	4.886	4.886	0.0	1.000	349646		6.22(2.86-8.58)		3492	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.239	5.239	0.0	1.072	2623486	1.01		101	1026	
913.00 > 169.00	5.239	5.239	0.0	1.072	318429		8.24(3.83-11.48)		3424	

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 12-Jul-2018 08:34:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_047.d

Injection Date: 11-Jul-2018 01:43:12 Instrument ID: A8_N

Lims ID: CCV L4

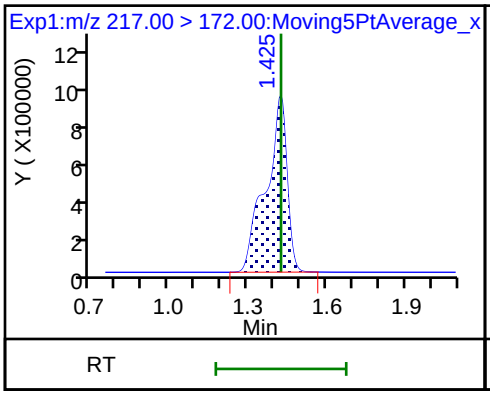
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 1

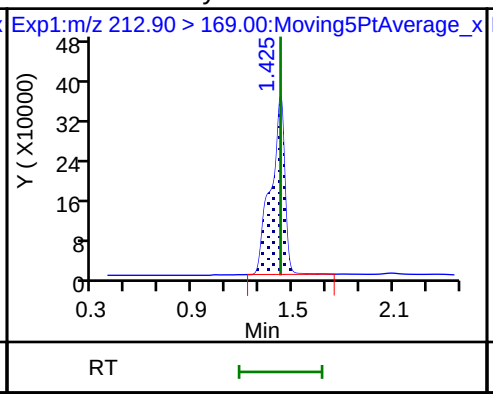
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

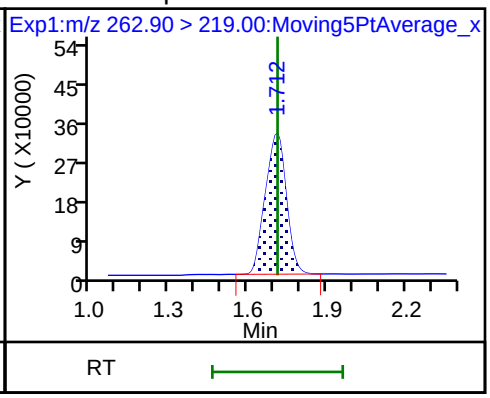
D 1 13C4 PFBA



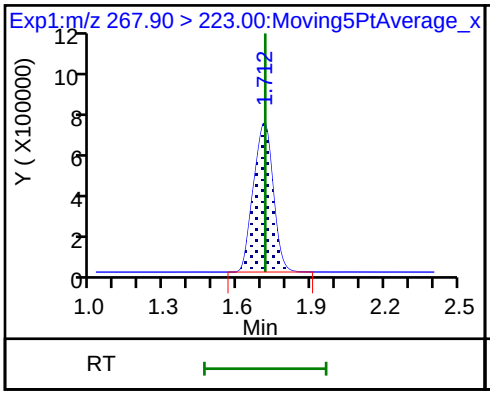
2 Perfluorobutyric acid



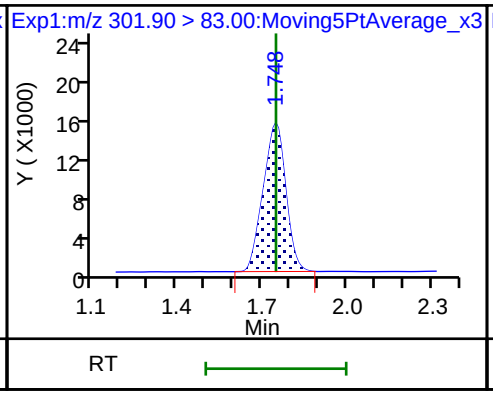
4 Perfluoropentanoic acid



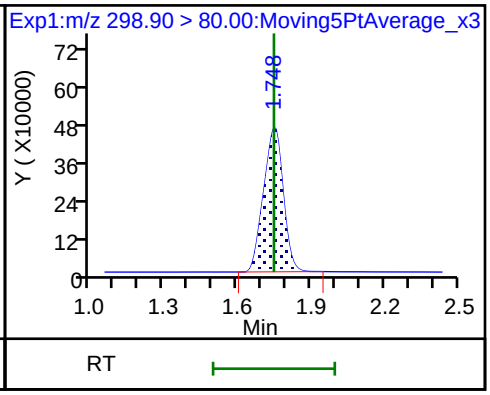
D 3 13C5-PFPeA



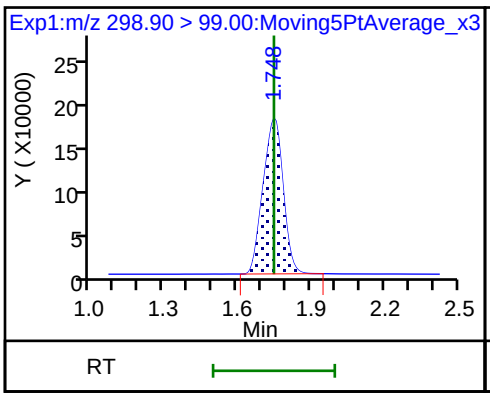
D 47 13C3-PFBS



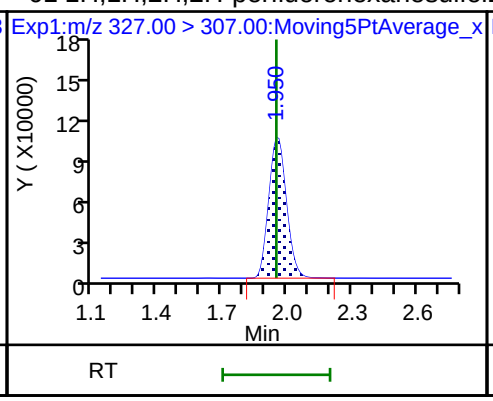
5 Perfluorobutanesulfonic acid



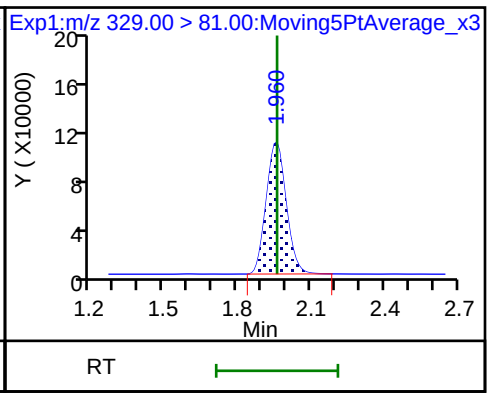
5 Perfluorobutanesulfonic acid



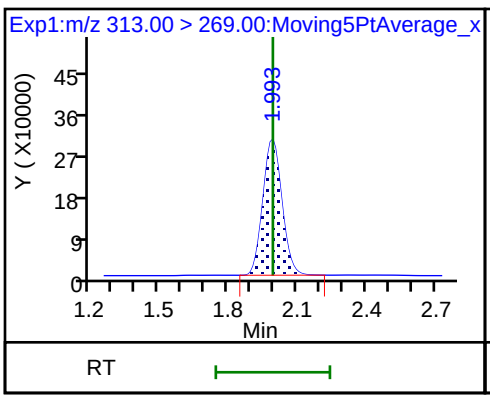
61 1H,1H,2H,2H-perfluorohexanesulfon



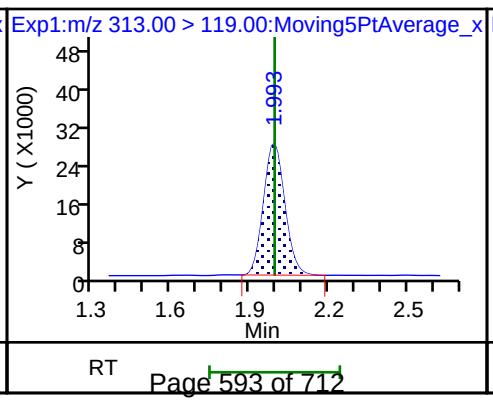
D 60 M2-4:2FTS



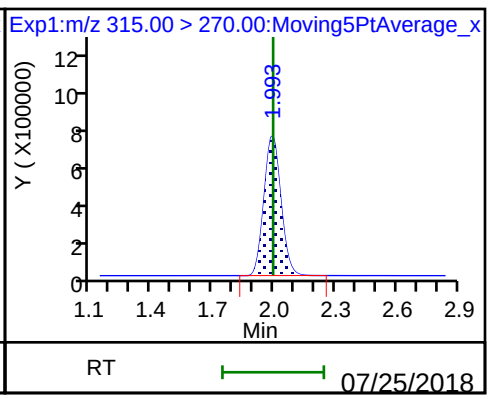
6 Perfluorohexanoic acid



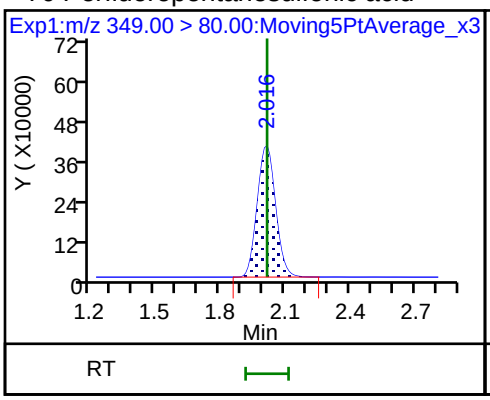
6 Perfluorohexanoic acid



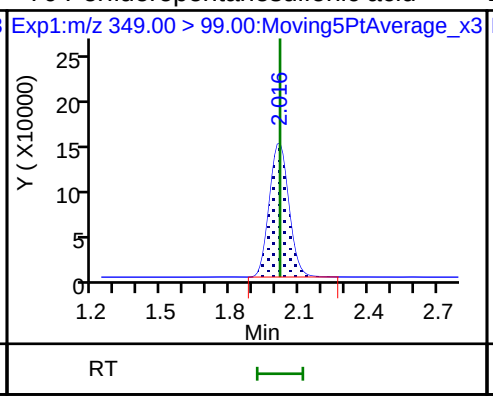
D 7 13C2 PFHxA



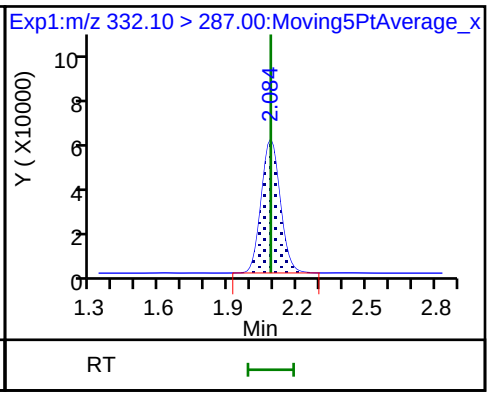
70 Perfluoropentanesulfonic acid



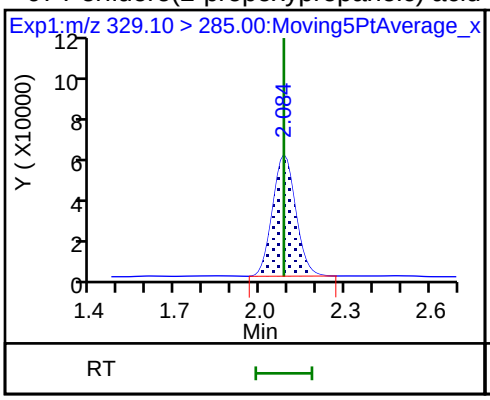
70 Perfluoropentanesulfonic acid



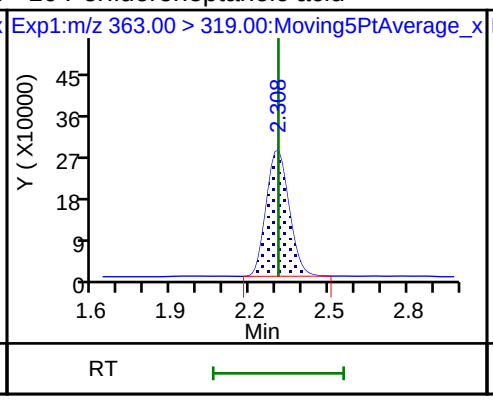
D 64 13C3 HFPO-DA



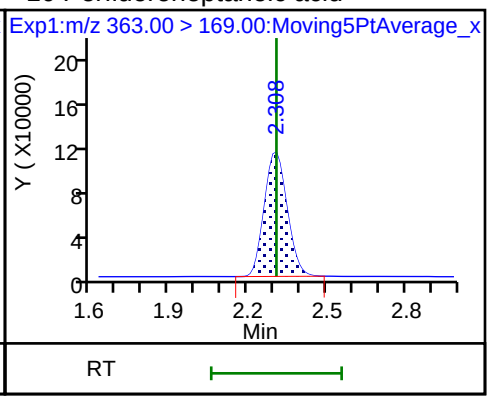
67 Perfluoro(2-propoxypropanoic) acid



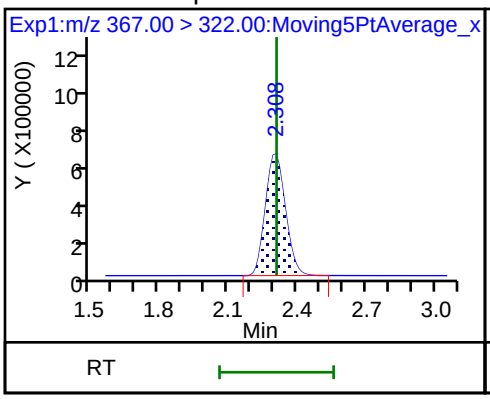
10 Perfluoroheptanoic acid



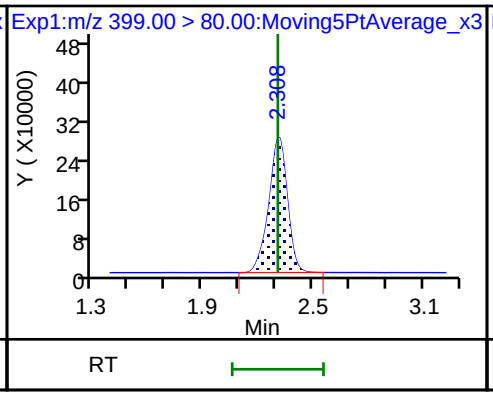
10 Perfluoroheptanoic acid



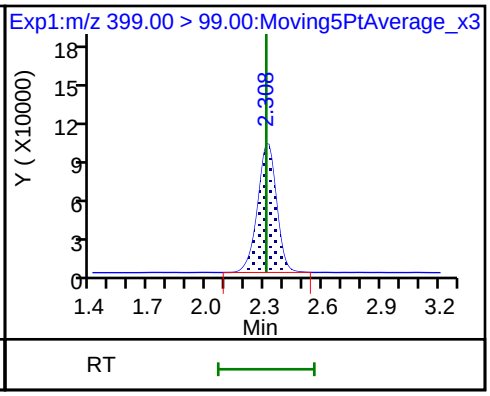
D 9 13C4-PFHpA



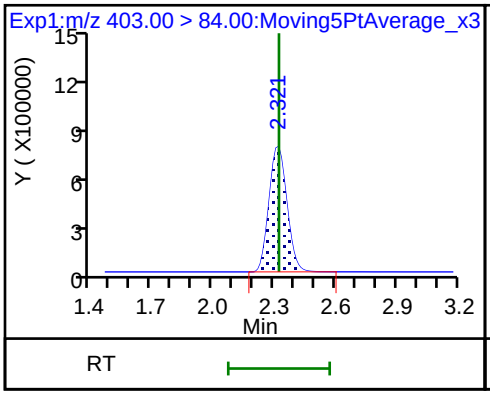
8 Perfluorohexanesulfonic acid



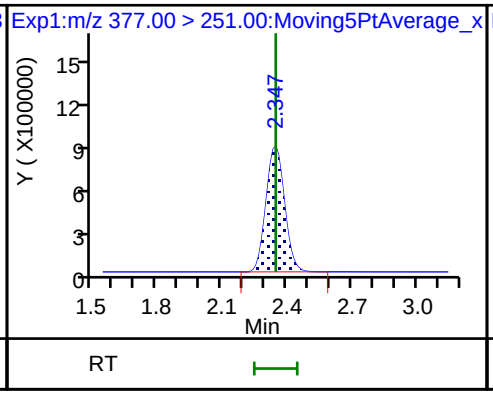
8 Perfluorohexanesulfonic acid



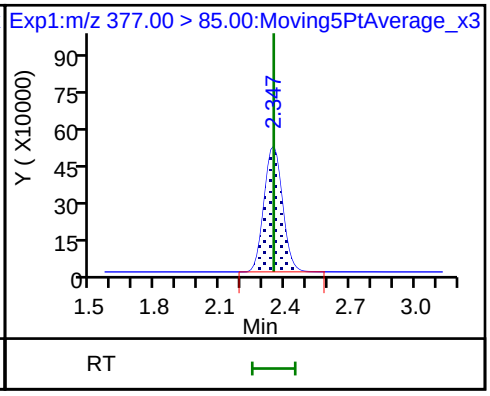
D 11 18O2 PFHxS



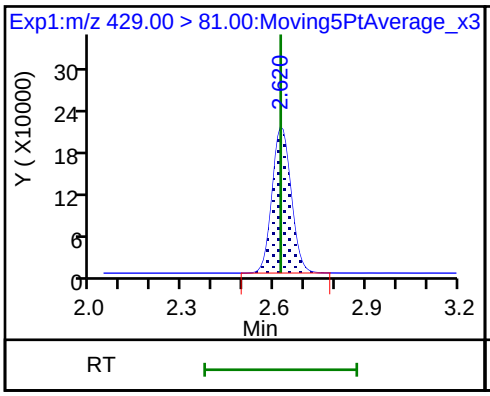
65 Adona



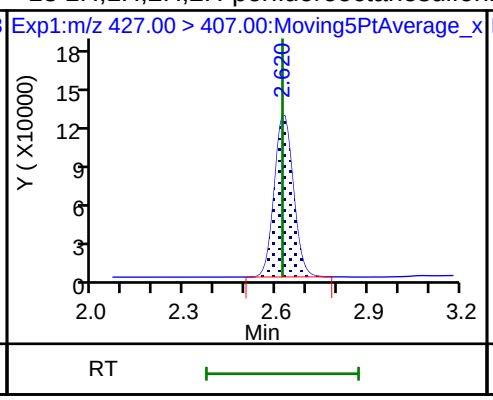
65 Adona



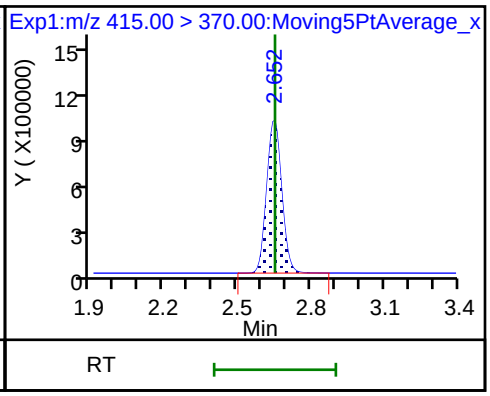
D 12 M2-6:2FTS



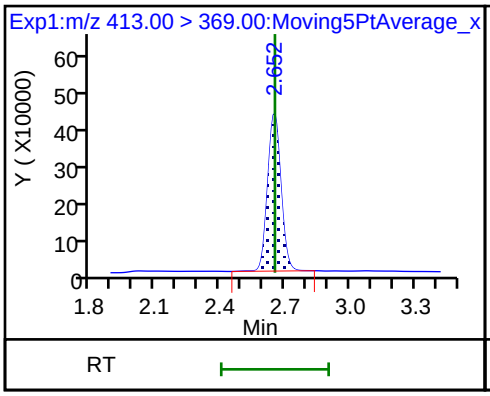
13 1H,1H,2H,2H-perfluorooctanesulfonic acid



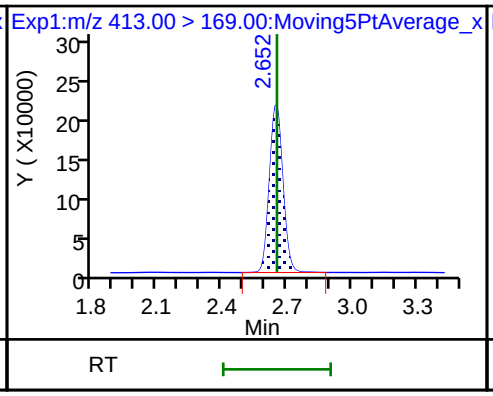
D 62 13C2-PFOA



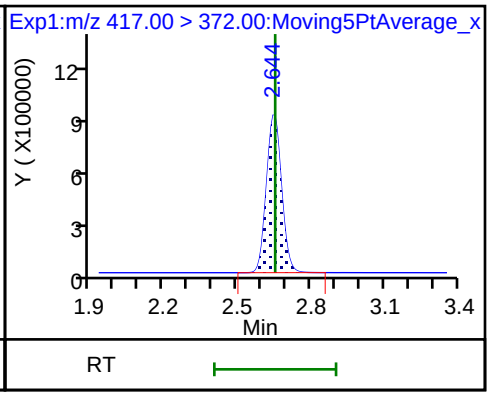
15 Perfluorooctanoic acid



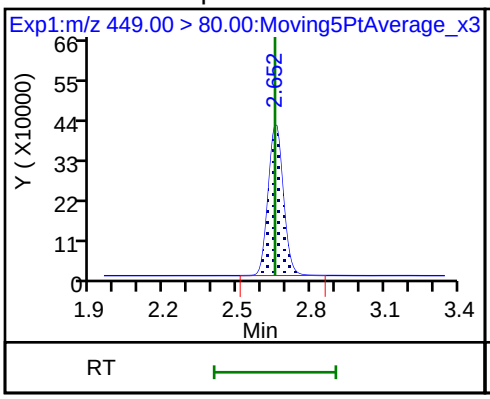
15 Perfluorooctanoic acid



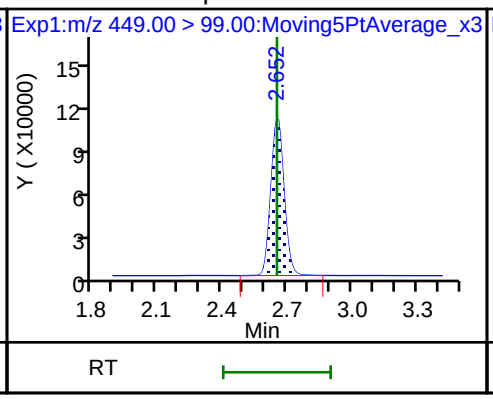
D 14 13C4 PFOA



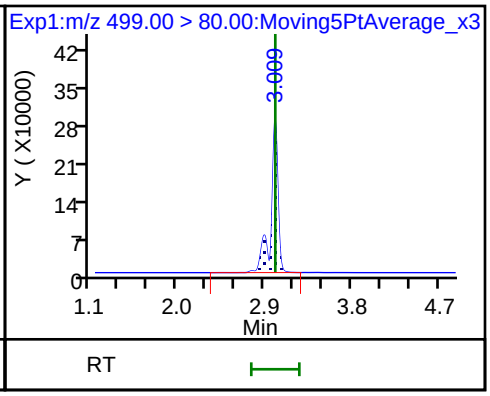
16 Perfluoroheptanesulfonic acid



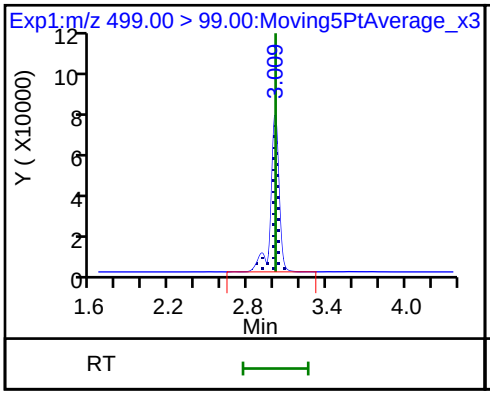
16 Perfluoroheptanesulfonic acid



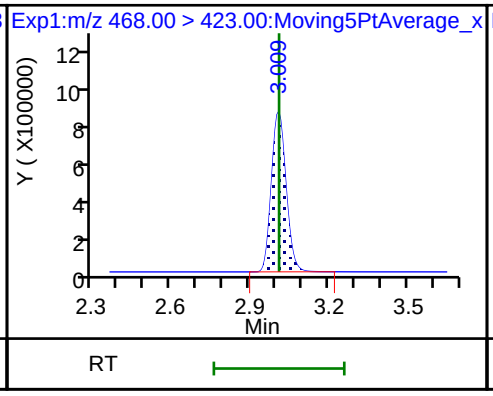
17 Perfluorooctane sulfonic acid



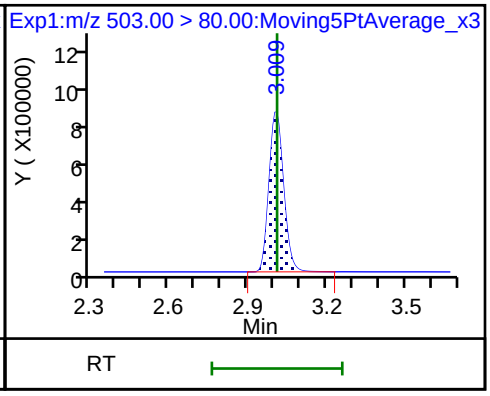
17 Perfluorooctane sulfonic acid



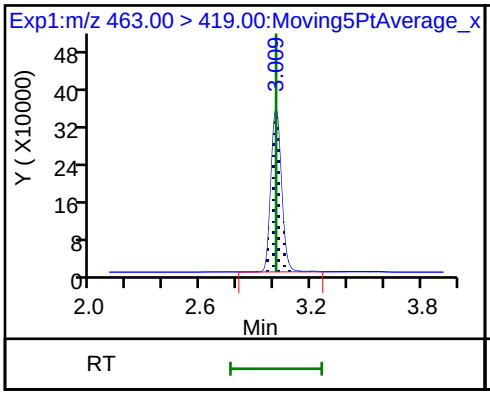
D 19 13C5 PFNA



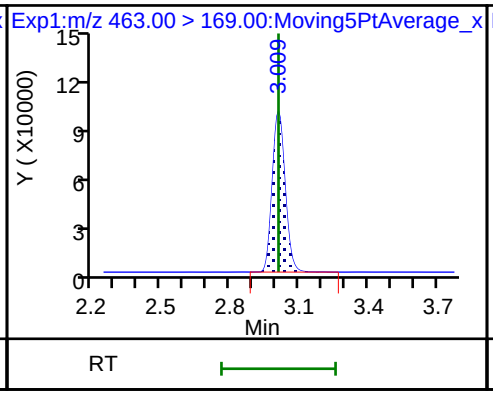
D 18 13C4 PFOS



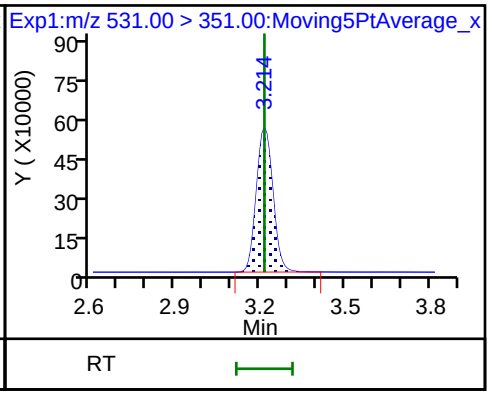
20 Perfluorononanoic acid



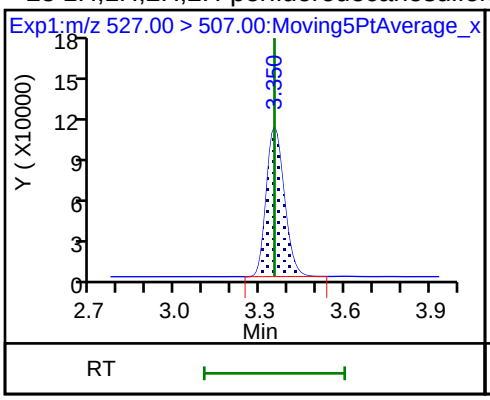
20 Perfluorononanoic acid



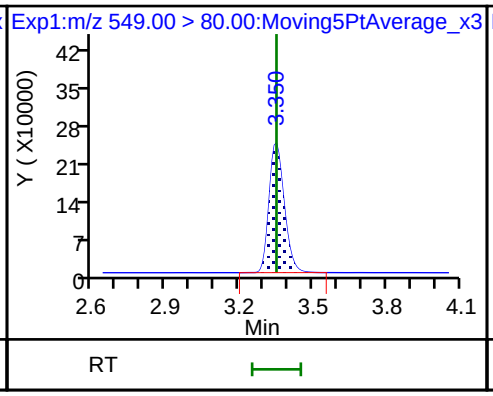
69 9-Chlorohexadecafluoro-3-oxanonane



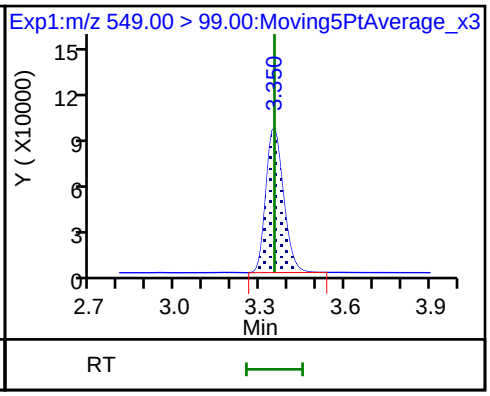
25 1H,1H,2H,2H-perfluorodecanesulfoni



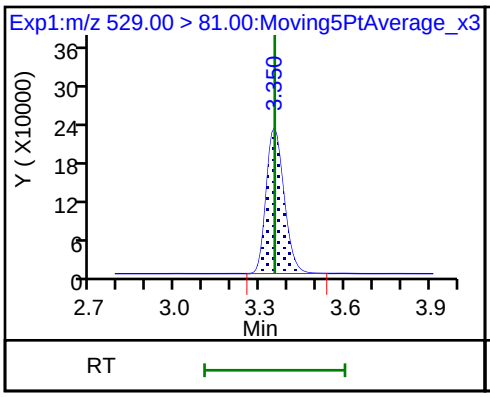
68 Perfluorononanesulfonic acid



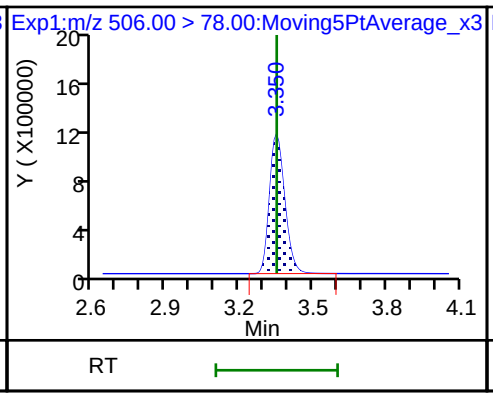
68 Perfluorononanesulfonic acid



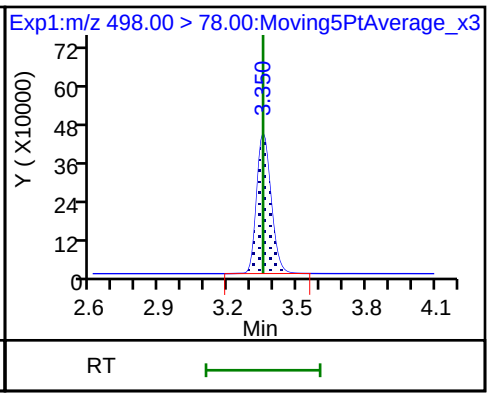
D 26 M2-8:2FTS



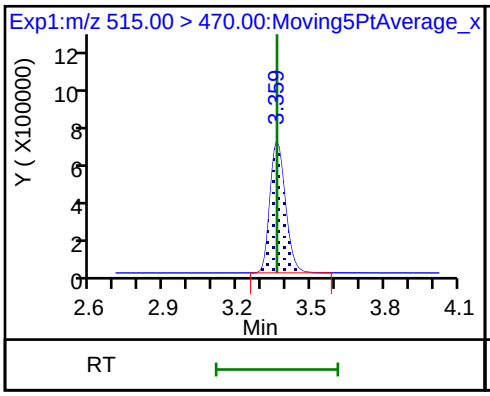
D 21 13C8 FOSA



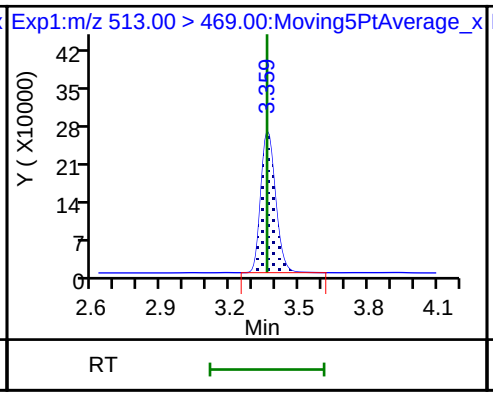
22 Perfluorooctane Sulfonamide



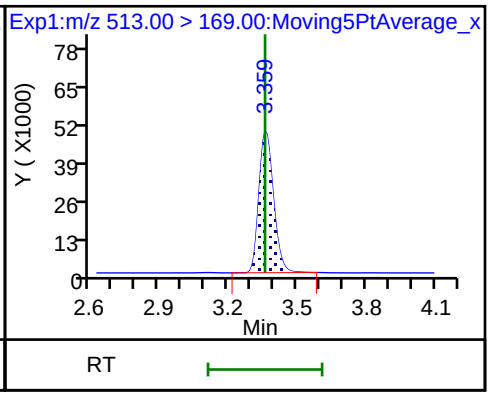
D 23 13C2 PFDA



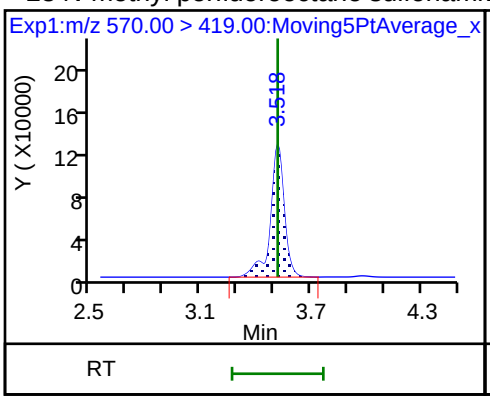
24 Perfluorodecanoic acid



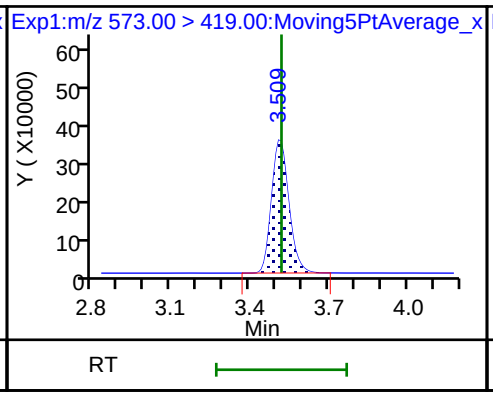
24 Perfluorodecanoic acid



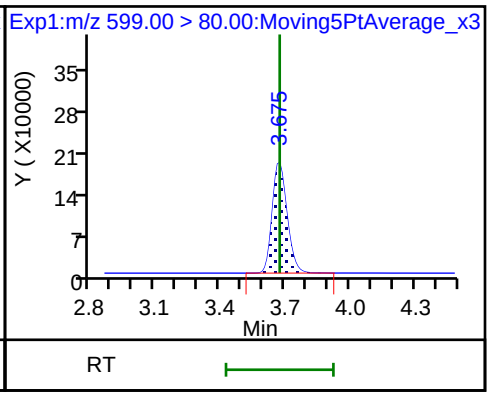
28 N-methyl perfluorooctane sulfonami



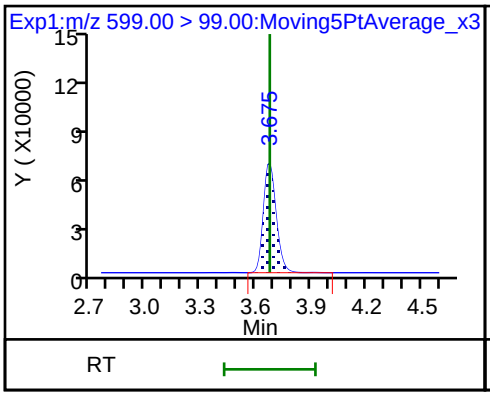
D 27 d3-NMeFOSAA



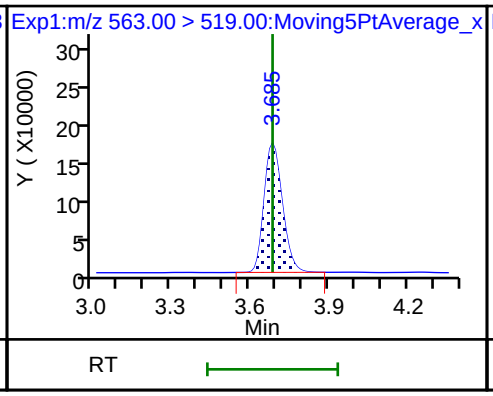
29 Perfluorodecane Sulfonic acid



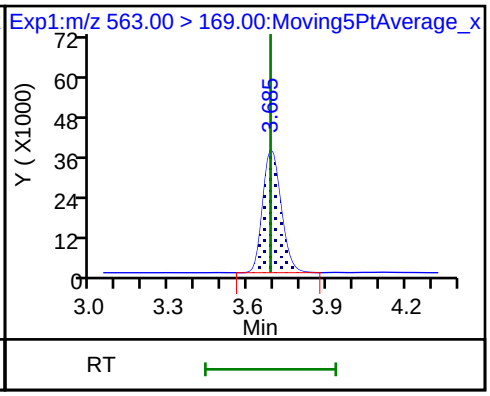
29 Perfluorodecane Sulfonic acid



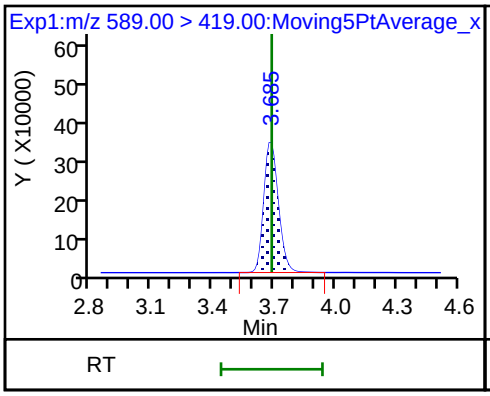
31 Perfluoroundecanoic acid



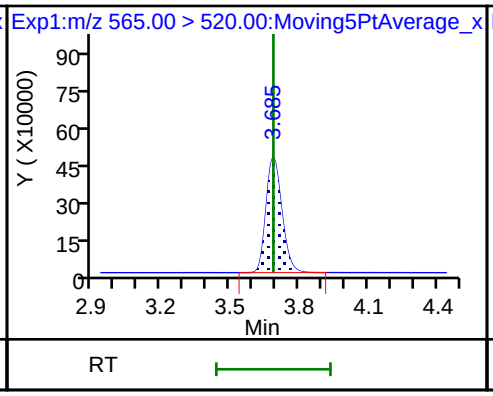
31 Perfluoroundecanoic acid



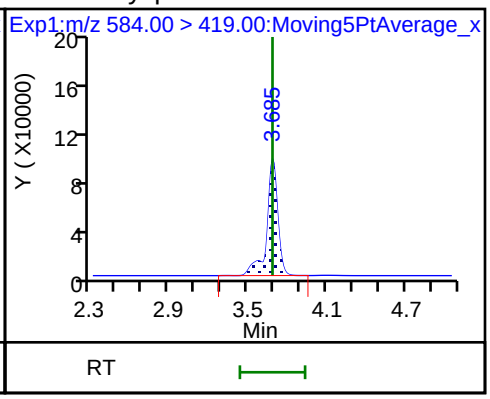
D 32 d5-NEtFOSAA



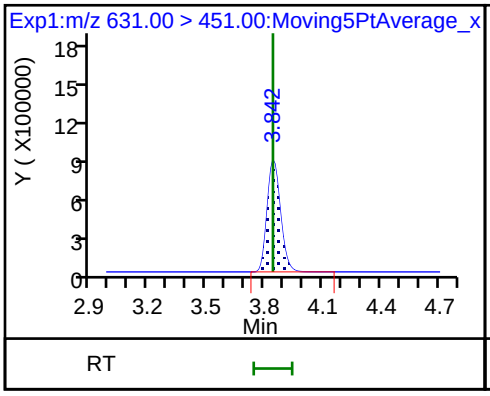
D 30 13C2 PFUnA



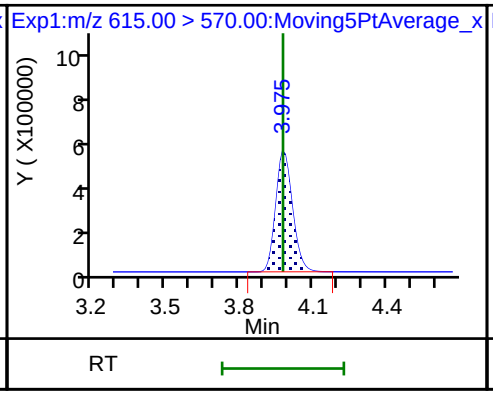
33 N-ethyl perfluorooctane sulfonamid



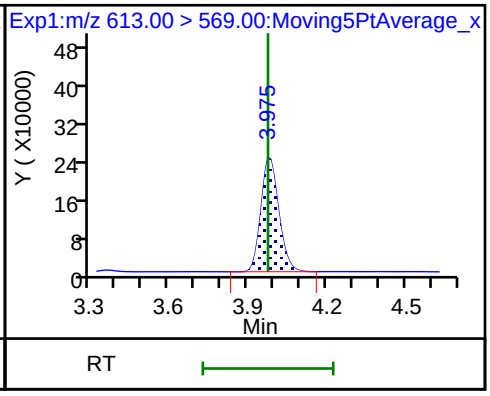
66 11-Chloroeicosafluoro-3-oxaundecan



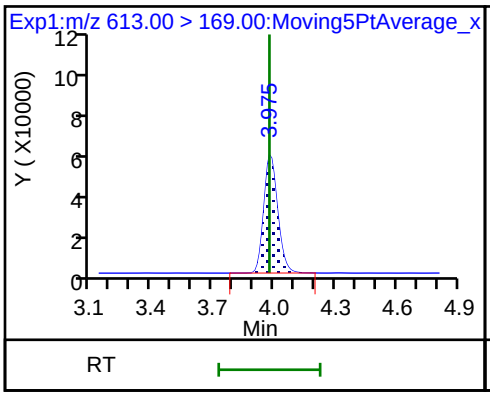
D 36 13C2 PFDoA



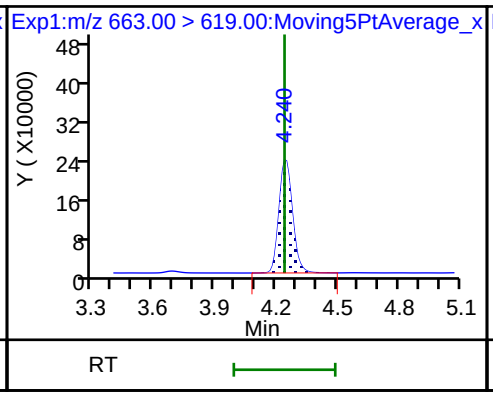
37 Perfluorododecanoic acid



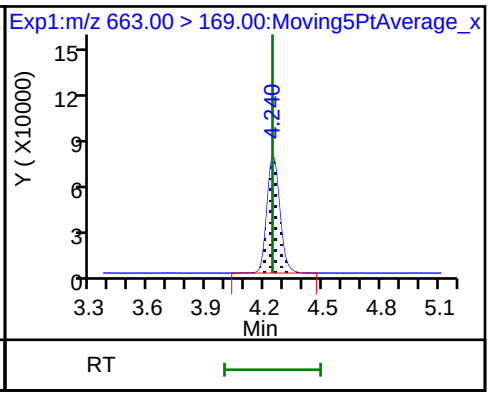
37 Perfluorododecanoic acid



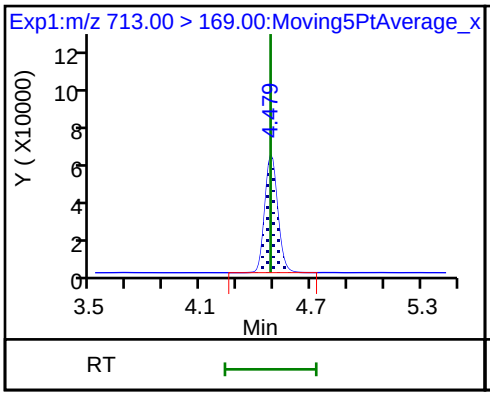
41 Perfluorotridecanoic acid



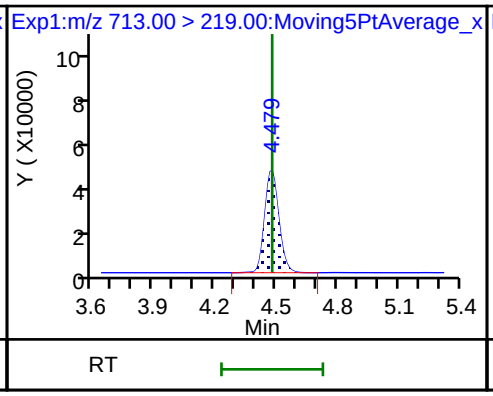
41 Perfluorotridecanoic acid



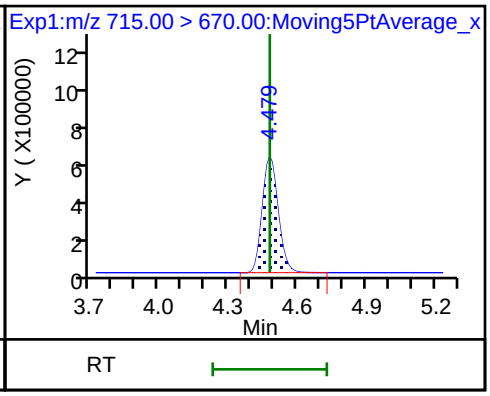
42 Perfluorotetradecanoic acid



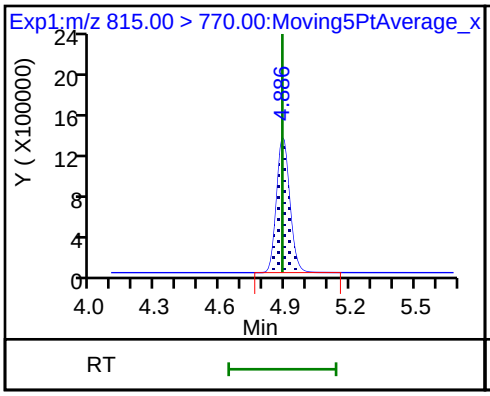
42 Perfluorotetradecanoic acid



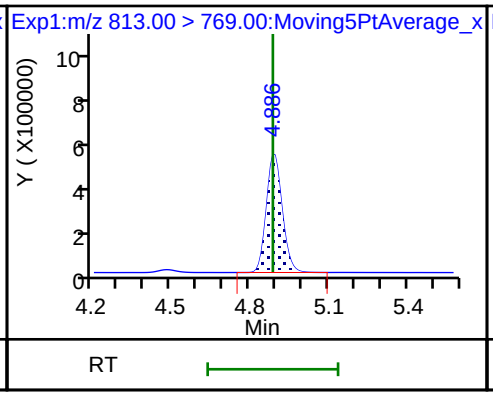
D 43 13C2-PFTeDA



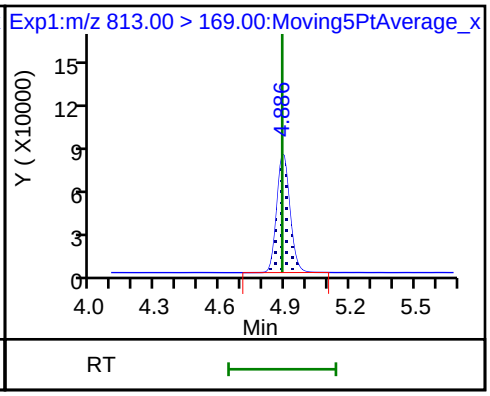
D 44 13C2-PFHxDA



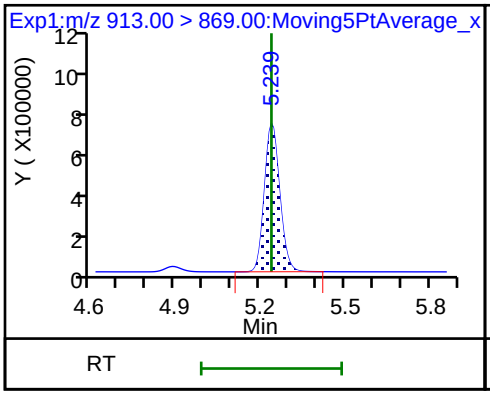
45 Perfluorohexadecanoic acid



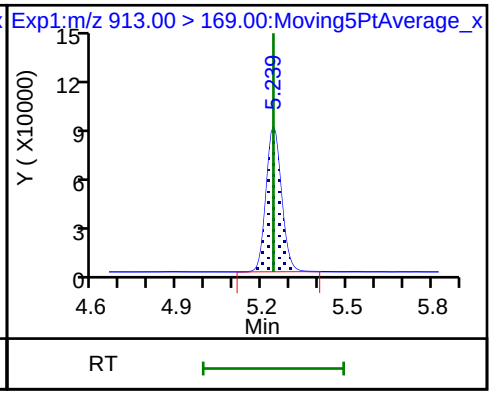
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/12 Calibration Date: 07/11/2018 03:09

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.997		2.44	2.50	-2.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.183		2.48	2.50	-0.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	78.29		2.28	2.21	3.3	50.0
4:2 FTS	AveID	15.68	16.78		2.50	2.34	7.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.048		2.57	2.50	2.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	71.41		2.58	2.35	10.1	50.0
HFPO-DA (GenX)	AveID	2.299	2.444		2.66	2.50	6.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.087		2.41	2.50	-3.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.099		2.16	2.28	-5.0	40.0
ADONA	AveID	3.706	4.033		2.56	2.36	8.8	50.0
6:2 FTS	AveID	1.567	1.594		2.41	2.37	1.8	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.223		2.58	2.50	3.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.466		2.60	2.38	9.4	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.079		2.50	2.50	0.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.220		2.42	2.32	4.4	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.891	1.966		2.42	2.33	4.0	50.0
8:2 FTS	AveID	1.321	1.273		2.31	2.40	-3.6	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.8186		2.42	2.40	0.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	1.018		2.57	2.50	2.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.044		2.50	2.50	0.1	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.020		2.48	2.50	-0.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.7119		2.38	2.41	-1.1	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8605		2.39	2.50	-4.6	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8808		2.59	2.50	3.6	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.884	3.193		2.61	2.36	10.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.056		2.40	2.50	-4.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.033		2.10	2.50	-15.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2485		2.29	2.50	-8.2	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9754		2.54	2.50	1.8	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/12 Calibration Date: 07/11/2018 03:09

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.189		2.55	2.50	2.2	50.0
13C4 PFBA	Ave	1.384	1.292		2.33	2.50	-6.7	50.0
13C5 PFPeA	Ave	1.025	0.9489		2.32	2.50	-7.4	50.0
13C3-PFBS	Ave	0.0245	0.0229		2.17	2.33	-6.5	50.0
M2-4:2FTS	Ave	0.1575	0.1606		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.097	1.054		2.40	2.50	-3.9	50.0
13C3 HFPO-DA	Ave	0.0899	0.0808		2.25	2.50	-10.1	50.0
13C4-PFHpA	Ave	0.9735	0.9938		2.55	2.50	2.1	50.0
18O2 PFHxS	Ave	1.198	1.247		2.46	2.37	4.1	50.0
M2-6:2FTS	Ave	0.2186	0.2293		2.49	2.38	4.9	40.0
13C4 PFOA	Ave	0.9539	0.9752		2.56	2.50	2.2	50.0
13C4 PFOS	Ave	0.8551	0.8250		2.31	2.39	-3.5	50.0
13C5 PFNA	Ave	0.8109	0.8444		2.60	2.50	4.1	50.0
13C8 FOSA	Ave	1.187	1.138		2.40	2.50	-4.1	50.0
M2-8:2FTS	Ave	0.2431	0.2410		2.37	2.40	-0.9	40.0
13C2 PFDA	Ave	0.6992	0.7123		2.55	2.50	1.9	50.0
d3-NMeFOSAA	Ave	0.4120	0.3995		2.42	2.50	-3.0	50.0
d5-NEtFOSAA	Ave	0.4070	0.4187		2.57	2.50	2.9	50.0
13C2 PFUnA	Ave	0.5873	0.5613		2.39	2.50	-4.4	50.0
13C2 PFDoA	Ave	0.6294	0.6571		2.61	2.50	4.4	50.0
13C2-PFTeDA	Ave	0.7673	0.7390		2.41	2.50	-3.7	50.0
13C2-PFHxDA	Ave	1.420	1.366		2.41	2.50	-3.8	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_058.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 11-Jul-2018 03:09:03 ALS Bottle#: 29 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:53:48 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:53:48

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.434	1.434	0.0	1.000	4669025	2.44		97.6	2623	
D 1 13C4 PFBA										
217.00 > 172.00	1.434	1.425	0.009	0.539	4685300	2.33		93.3	19876	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.000	4070570	2.48		99.3	3507	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.712	0.005	0.646	3441000	2.32		92.6	36738	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.762	0.0	1.005	5752217	2.28		103	21501	
298.90 > 99.00	1.762	1.762	0.0	1.005	2382186		2.41(1.25-3.74)		21533	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.748	0.005	0.659	77296	2.17		93.5	586	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.967	0.0	1.122	1302308	2.50		107	57108	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.961	0.006	0.740	544023	2.38		102	6834	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	2.000	0.0	1.000	4005216	2.57		103	9907	
313.00 > 119.00	2.000	2.000	0.0	1.000	354102		11.31(5.03-15.10)		5577	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	1.994	0.006	0.752	3822979	2.40		96.1	41698	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	5567112	2.58		110	63256	
349.00 > 99.00	2.022	2.022	0.0	1.154	1979169		2.81(1.36-4.07)		25821	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.090	0.0	1.000	716194	2.66		106	5202	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.084	0.006	0.786	293087	2.25		89.9	4628	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.316	0.0	1.000	3919417	2.41		96.3	5968	
363.00 > 169.00	2.316	2.316	0.0	1.000	1540418		2.54(1.13-3.40)		12056	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.316	2.316	0.0	0.994	4522667	2.16		95.0	16173	
399.00 > 99.00	2.329	2.316	0.013	1.000	1467406		3.08(1.50-4.49)		8750	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.309	0.007	0.871	3604140	2.55		102	34782	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.322	0.007	0.876	4278814	2.46		104	33608	
65 Adona										
377.00 > 251.00	2.355	2.355	0.0	0.780	11366323	2.56		109	66087	
377.00 > 85.00	2.355	2.355	0.0	0.780	6703692		1.70(0.84-2.53)		43707	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.635	0.0	1.000	1256749	2.41		102	6650	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.621	0.014	0.991	789973	2.49		105	12991	
* 62 13C2-PFOA										
415.00 > 370.00	2.658	2.658	0.0		3626486	2.50			23626	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.658	2.658	0.0	1.000	4330268	2.58		103	1220	
413.00 > 169.00	2.658	2.658	0.0	1.000	2225553		1.95(0.84-2.52)		3445	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.666	0.0	0.883	4174268	2.60		109	20560	
449.00 > 99.00	2.666	2.666	0.0	0.883	1111131		3.76(1.94-5.82)		25863	
D 14 13C4 PFOA										
417.00 > 372.00	2.658	2.653	0.005	1.000	3536587	2.56		102	41586	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.018	3.018	0.0	1.000	3386739	2.42		104	18963	
499.00 > 99.00	3.018	3.018	0.0	1.000	729209		4.64(2.31-6.93)		11532	
20 Perfluorononanoic acid										
463.00 > 419.00	3.018	3.018	0.0	1.000	3305152	2.50		100	8154	
463.00 > 169.00	3.018	3.018	0.0	1.000	789272		4.19(1.90-5.69)		16941	
D 19 13C5 PFNA										
468.00 > 423.00	3.018	3.010	0.008	1.135	3062295	2.60		104	41883	
D 18 13C4 PFOS										
503.00 > 80.00	3.018	3.010	0.008	1.135	2860335	2.31		96.5	18025	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.224	3.224	0.0	1.068	5483591	2.42		104	65322	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.361	3.361	0.0	1.000	1065916	2.31		96.4	21890	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.361	0.0	1.114	2351195	2.42		101	41741	
549.00 > 99.00	3.361	3.361	0.0	1.114	872031		2.70(1.33-3.97)		22133	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.361	0.0	1.000	4201802	2.57		103	25248	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.361	3.351	0.010	1.264	837219	2.37		99.1	13503	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.351	0.010	1.264	4127779	2.40		95.9	33640	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.371	3.371	0.0	1.000	2696237	2.50		100	10353	
513.00 > 169.00	3.371	3.371	0.0	1.000	457657		5.89(2.36-7.09)		11449	
D 23 13C2 PFDA										
515.00 > 470.00	3.371	3.361	0.010	1.268	2583261	2.55		102	30875	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.529	0.0	1.003	1477379	2.48		99.1	11502	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.520	3.519	0.001	1.324	1448642	2.42		97.0	21028	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.677	3.677	0.0	1.218	2053188	2.38		98.9	42689	
599.00 > 99.00	3.677	3.677	0.0	1.218	671363		3.06(1.39-4.16)		14087	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.698	0.0	1.000	1792960	2.59		104	7383	
563.00 > 169.00	3.698	3.698	0.0	1.000	435956		4.11(2.12-6.36)		10108	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.698	0.0	1.003	1306697	2.39		95.4	13100	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.391	2035709	2.39		95.6	21215	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.687	3.687	0.0	1.387	1518464	2.57		103	11467	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.855	0.0	1.277	9000640	2.61		111	70066	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	3.989	0.0	1.000	2516749	2.40		95.8	3300	
613.00 > 169.00	3.989	3.989	0.0	1.000	604500		4.16(2.13-6.40)		11636	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.977	0.012	1.501	2383103	2.61		104	10981	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.253	4.253	0.0	1.066	2460648	2.10		84.1	3174	
663.00 > 169.00	4.253	4.253	0.0	1.066	780237		3.15(1.25-3.76)		9577	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.491	0.0	1.000	665977	2.29		91.8	8295	
713.00 > 219.00	4.481	4.491	-0.010	0.998	471934		1.41(0.71-2.13)		9788	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.480	0.011	1.689	2679916	2.41		96.3	11405	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.896	0.0	1.000	4832050	2.54		102	2595	
813.00 > 169.00	4.896	4.896	0.0	1.000	772295		6.26(2.86-8.58)		6176	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.842	4953691	2.41		96.2	10757	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.248	5.248	0.0	1.072	5891410	2.55		102	2237	
913.00 > 169.00	5.248	5.248	0.0	1.072	727125		8.10(3.83-11.48)		6142	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 12-Jul-2018 08:53:49 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_058.d

Injection Date: 11-Jul-2018 03:09:03 Instrument ID: A8_N

Lims ID: CCV L5

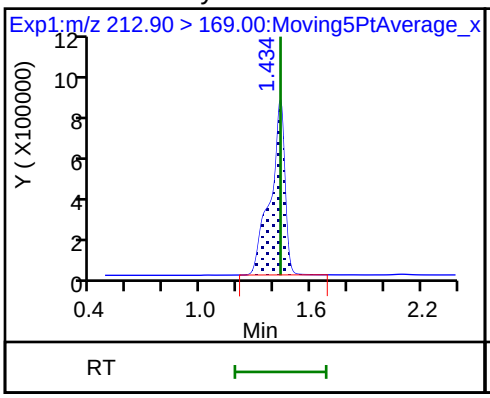
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 12

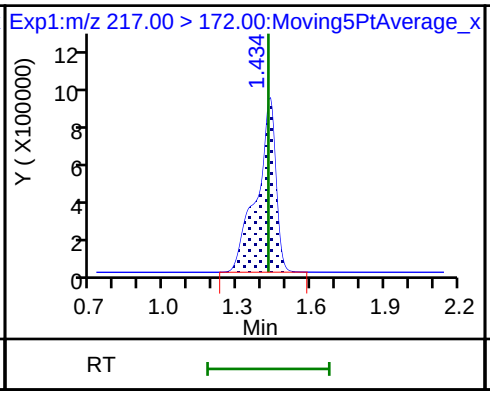
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

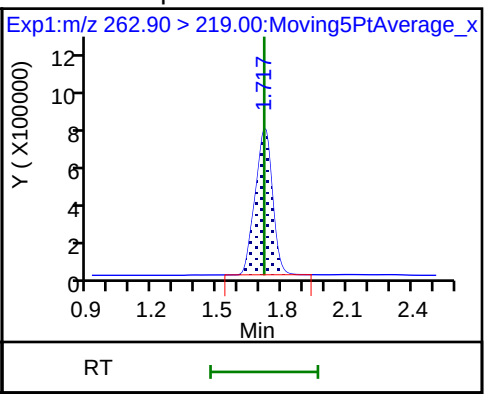
2 Perfluorobutyric acid



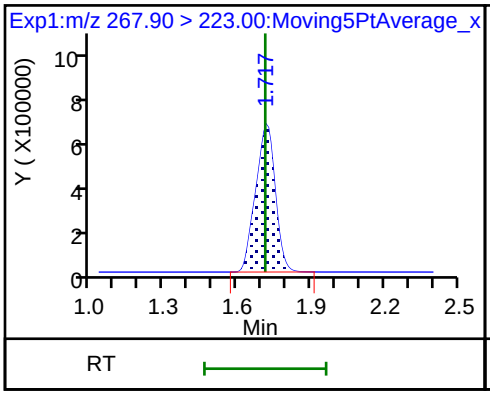
D 1 13C4 PFBA



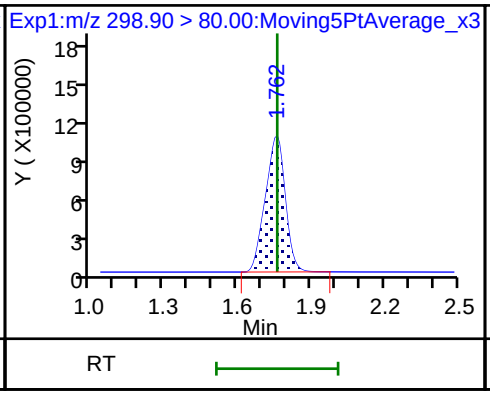
4 Perfluoropentanoic acid



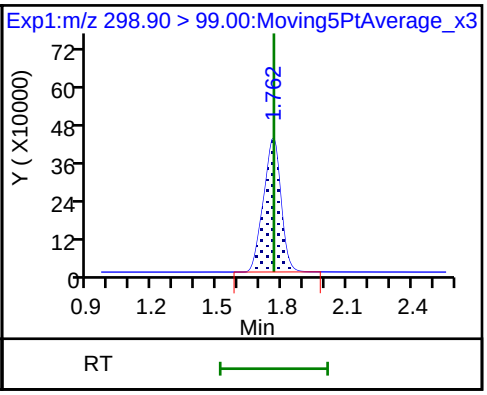
D 3 13C5-PFPeA



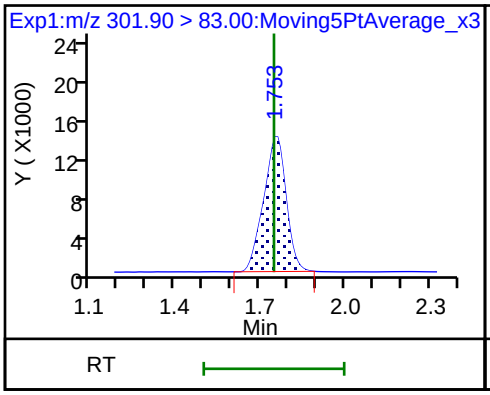
5 Perfluorobutanesulfonic acid



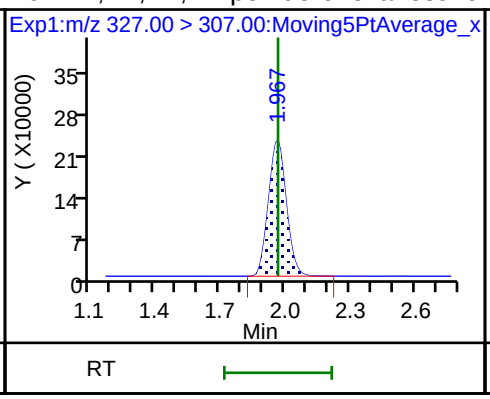
5 Perfluorobutanesulfonic acid



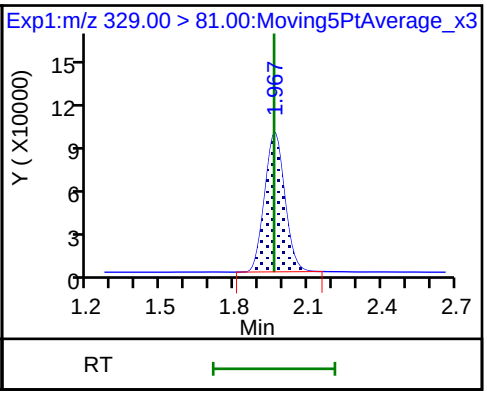
D 47 13C3-PFBS



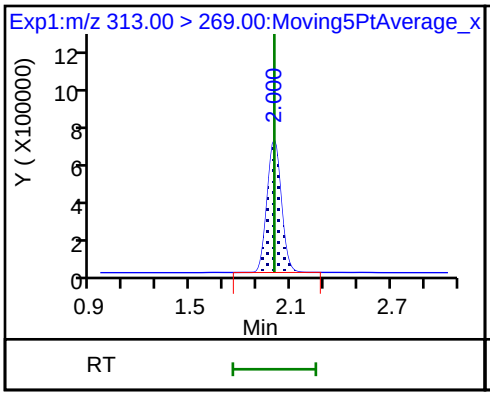
61 1H,1H,2H,2H-perfluorohexanesulfon



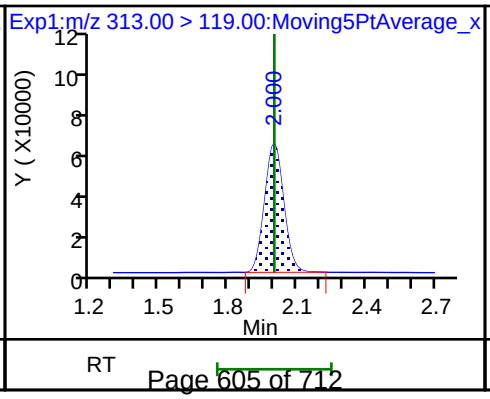
D 60 M2-4:2FTS



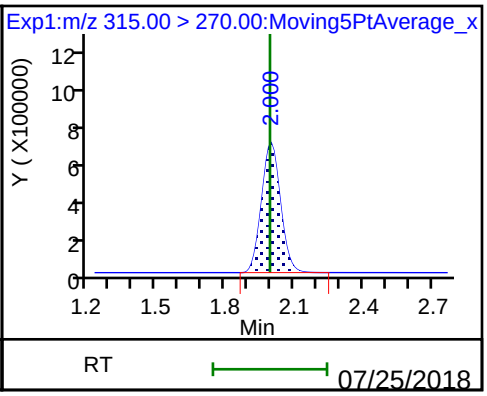
6 Perfluorohexanoic acid



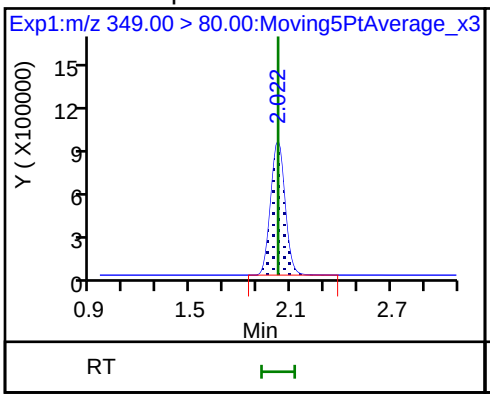
6 Perfluorohexanoic acid



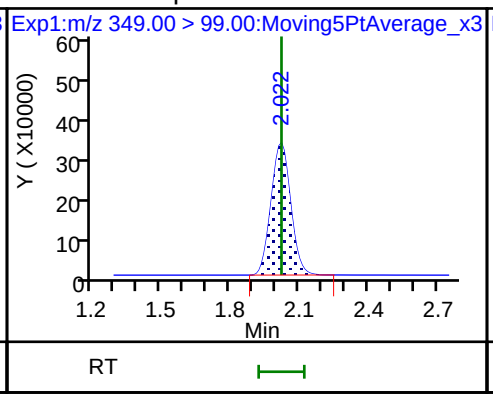
D 7 13C2 PFHxA



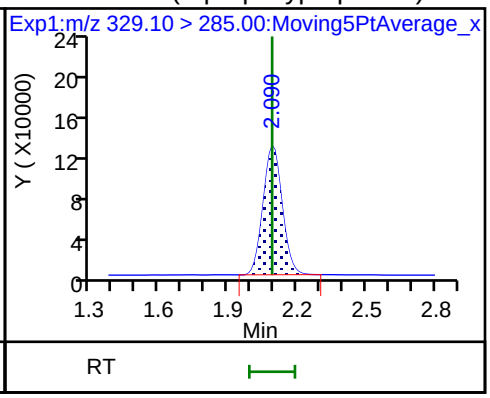
70 Perfluoropentanesulfonic acid



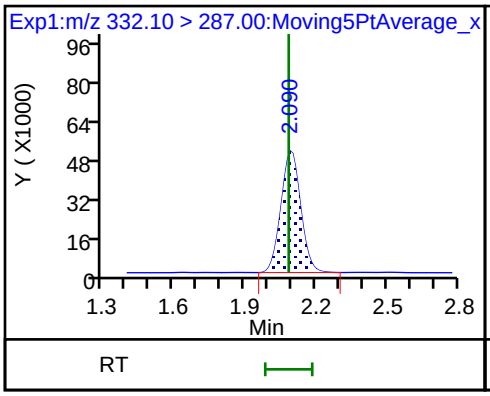
70 Perfluoropentanesulfonic acid



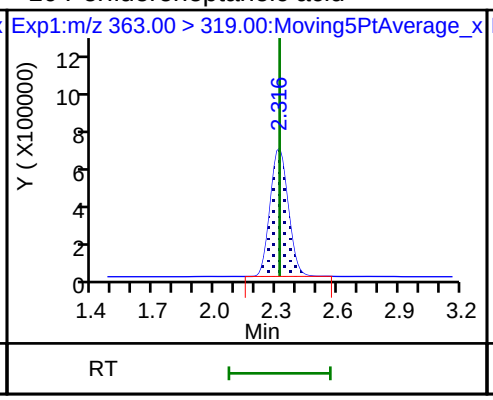
67 Perfluoro(2-propoxypropanoic) acid



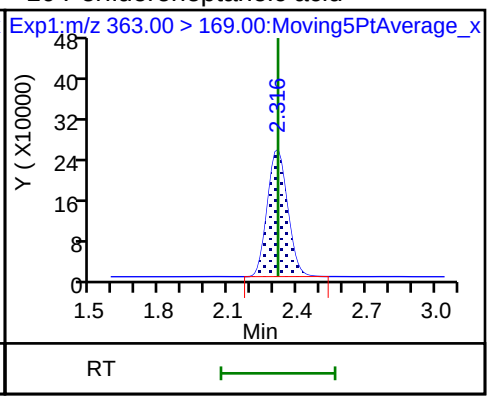
D 64 13C3 HFPO-DA



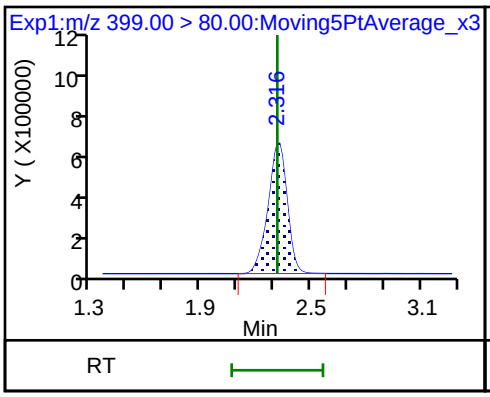
10 Perfluoroheptanoic acid



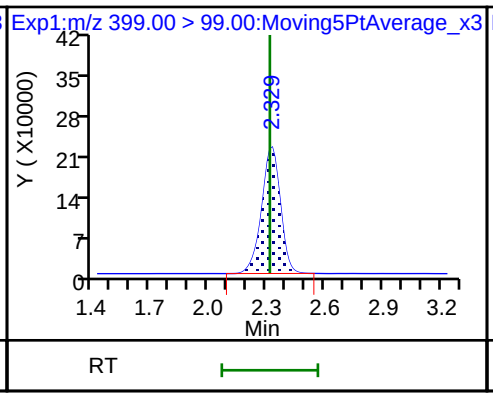
10 Perfluoroheptanoic acid



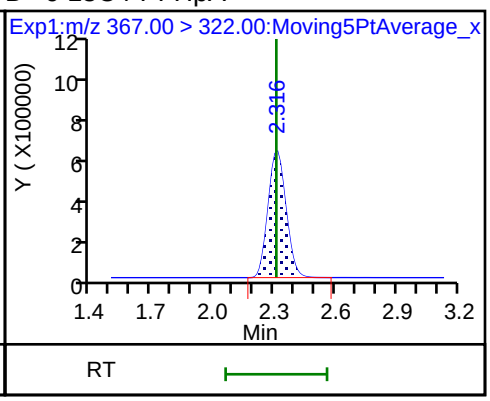
8 Perfluorohexanesulfonic acid



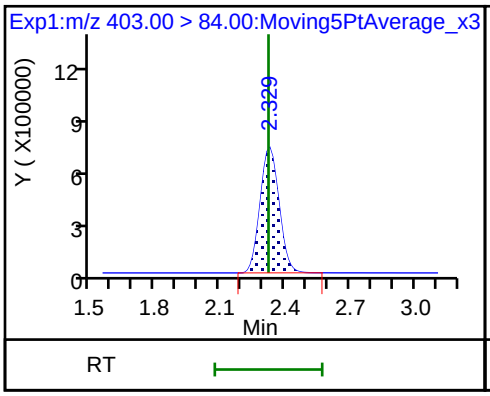
8 Perfluorohexanesulfonic acid



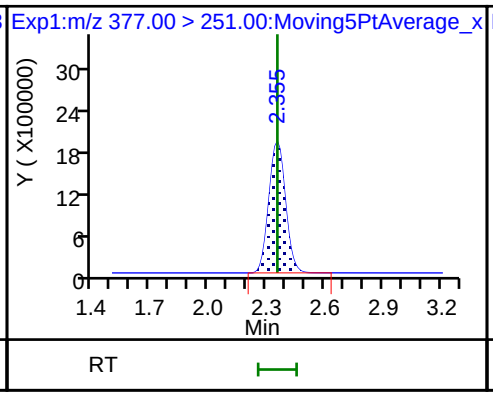
D 9 13C4-PFHpA



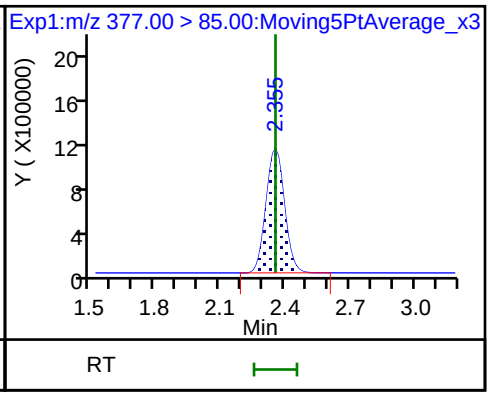
D 11 18O2 PFHxS



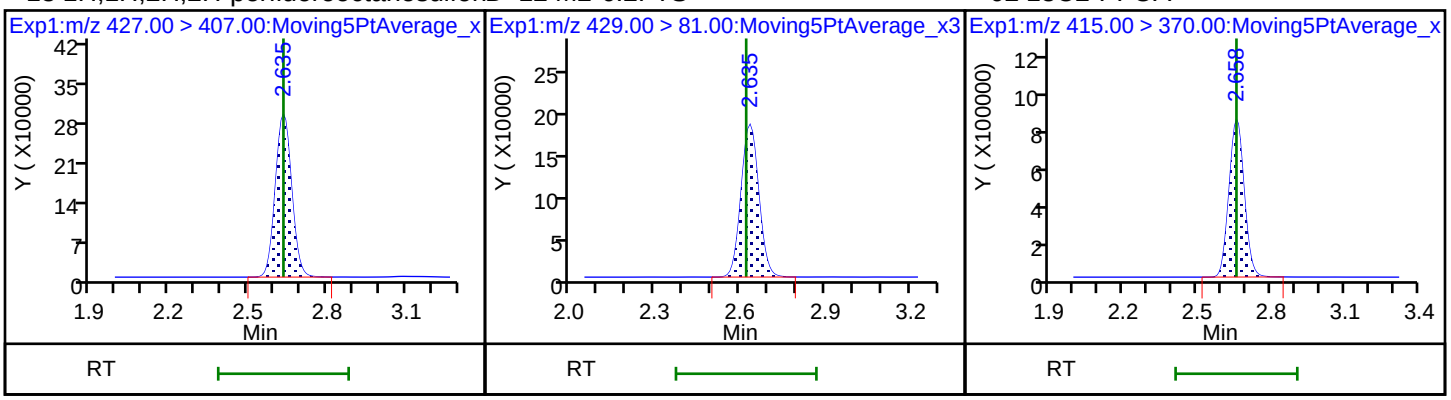
65 Adona



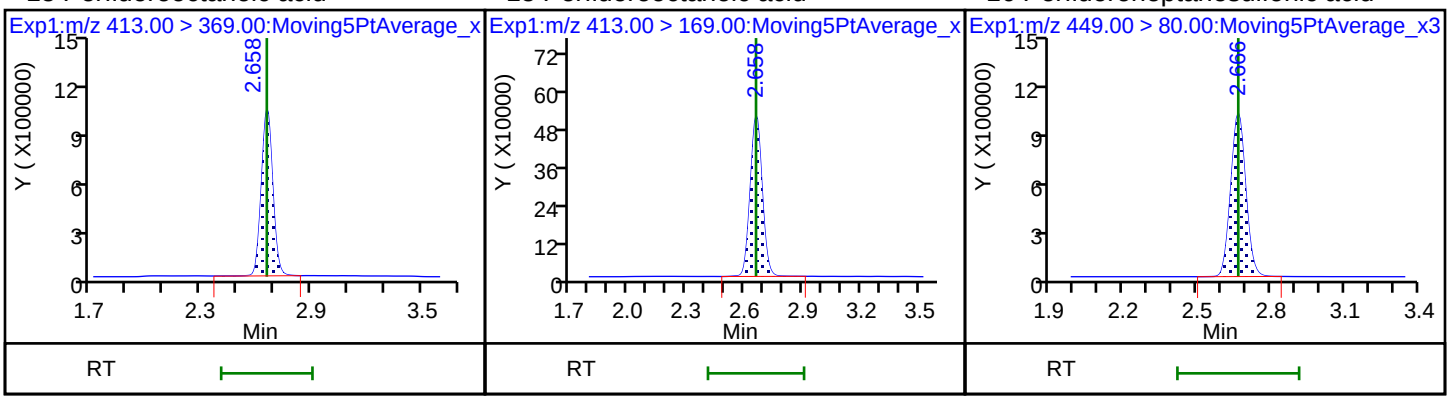
65 Adona



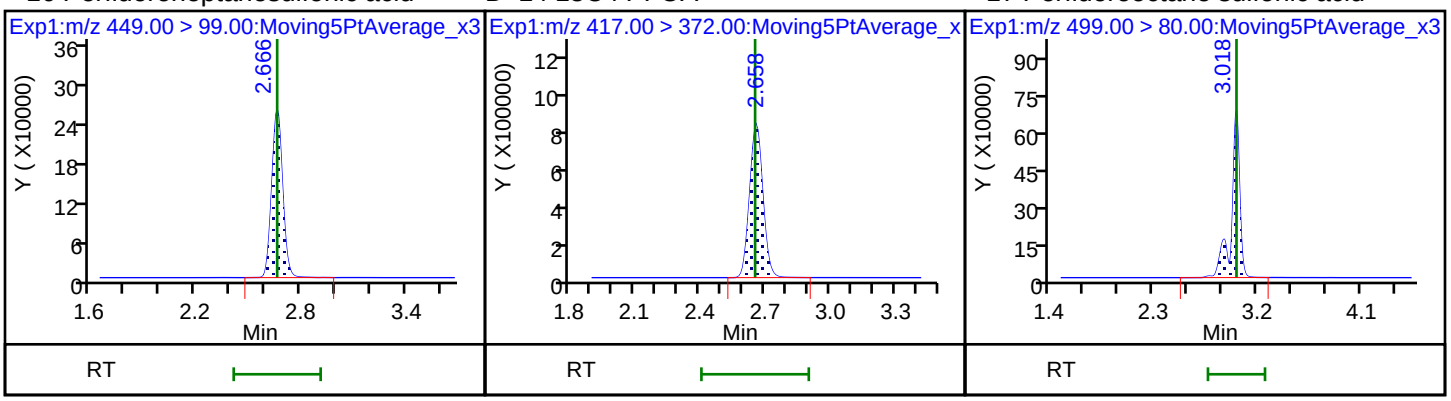
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



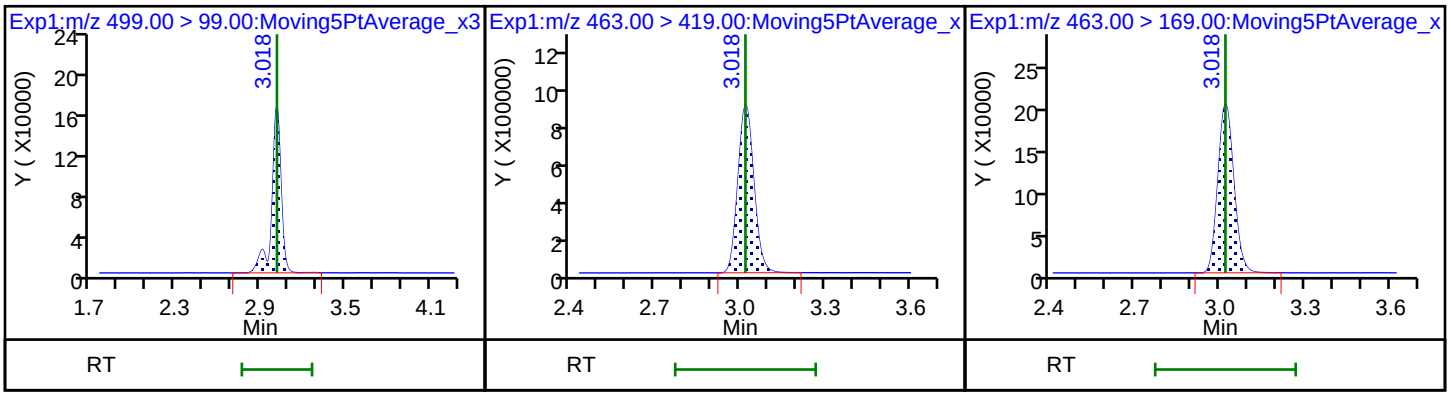
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid 16 Perfluoroheptanesulfonic acid



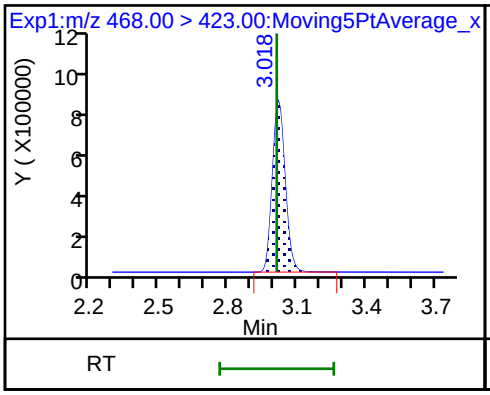
16 Perfluoroheptanesulfonic acid D 14 13C4 PFOA 17 Perfluorooctane sulfonic acid



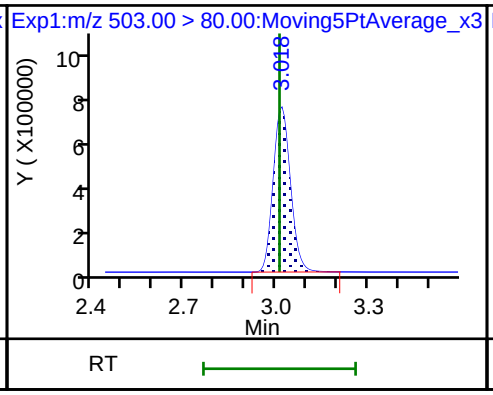
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



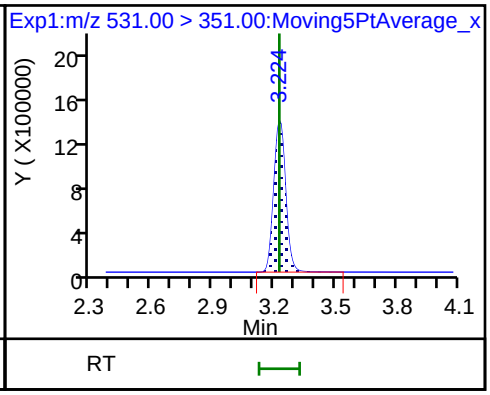
D 19 13C5 PFNA



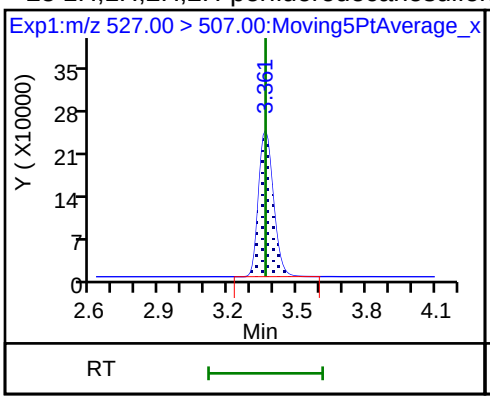
D 18 13C4 PFOS



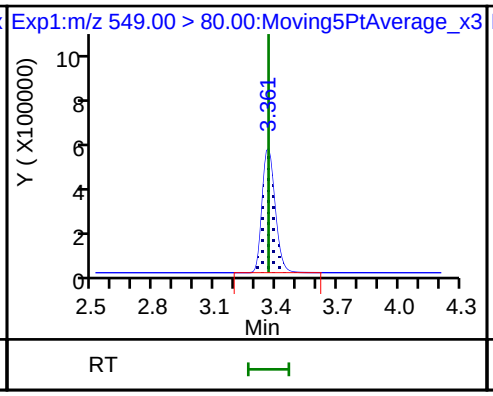
69 9-Chlorohexadecafluoro-3-oxanonane



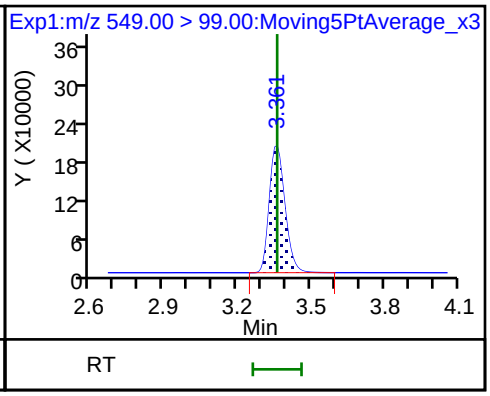
25 1H,1H,2H,2H-perfluorodecanesulfoni



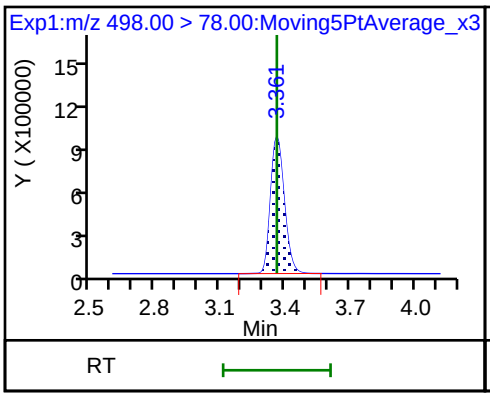
68 Perfluorononanesulfonic acid



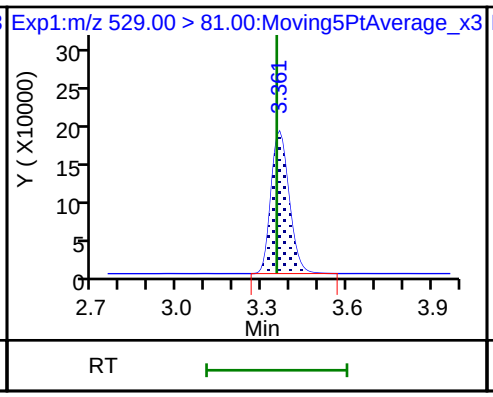
68 Perfluorononanesulfonic acid



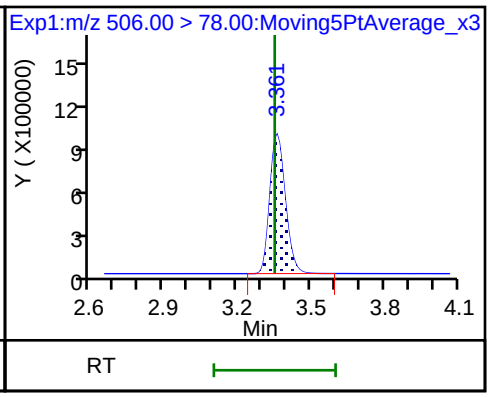
22 Perfluorooctane Sulfonamide



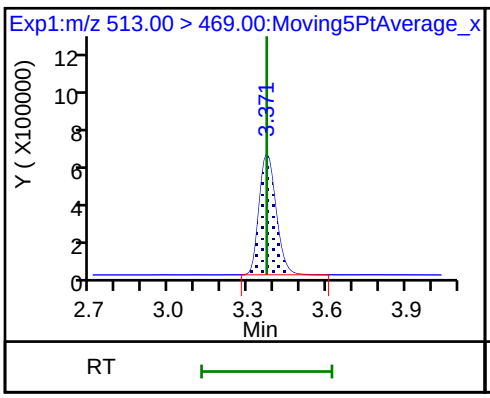
D 26 M2-8:2FTS



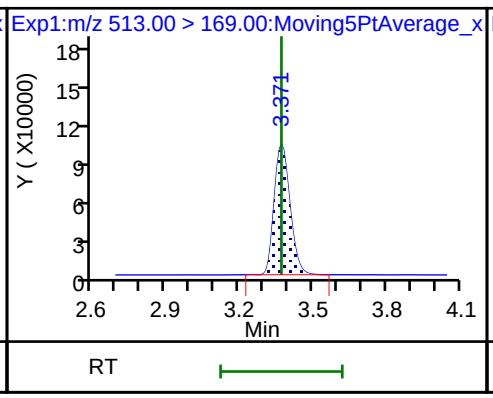
D 21 13C8 FOSA



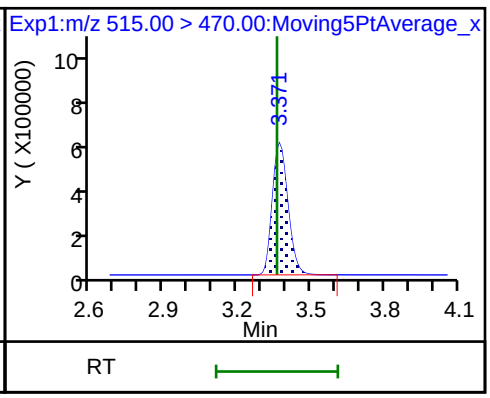
24 Perfluorodecanoic acid



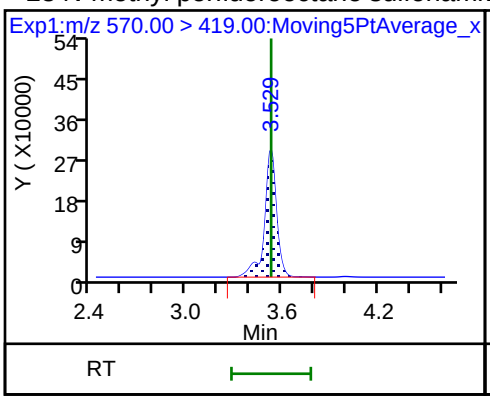
24 Perfluorodecanoic acid



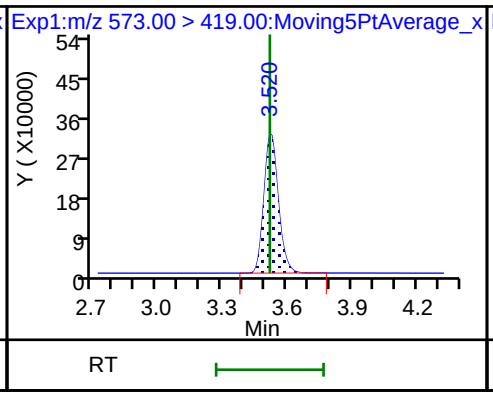
D 23 13C2 PFDA



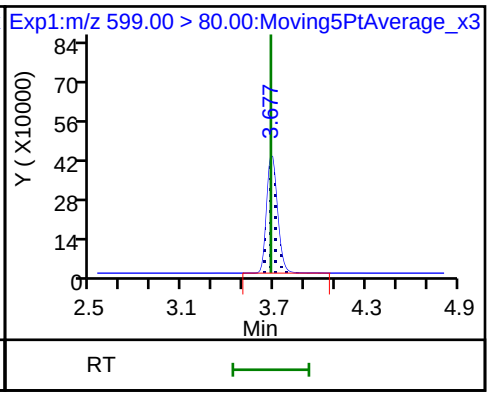
28 N-methyl perfluorooctane sulfonami



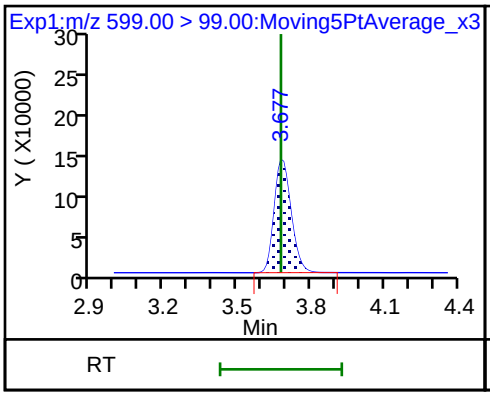
D 27 d3-NMeFOSAA



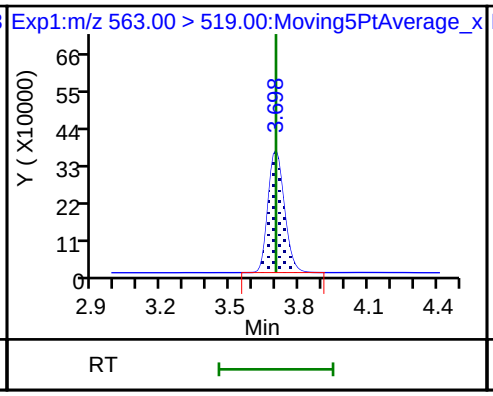
29 Perfluorodecane Sulfonic acid



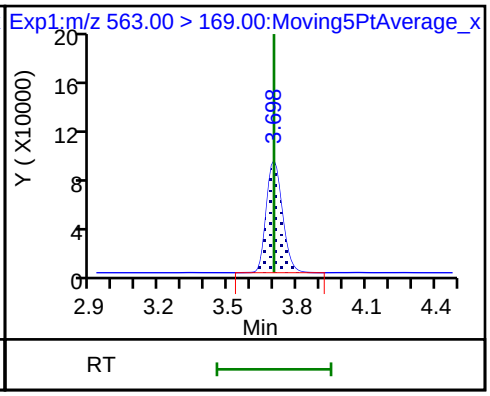
29 Perfluorodecane Sulfonic acid



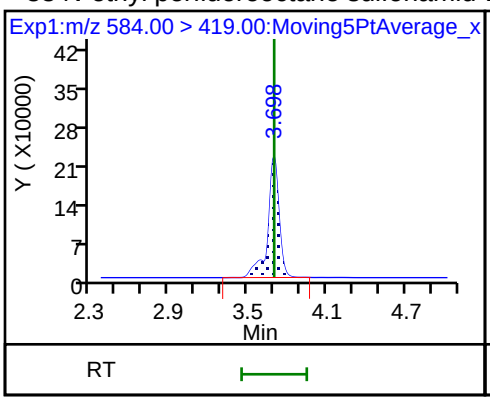
31 Perfluoroundecanoic acid



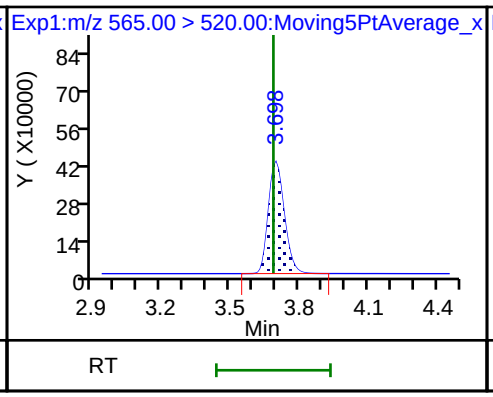
31 Perfluoroundecanoic acid



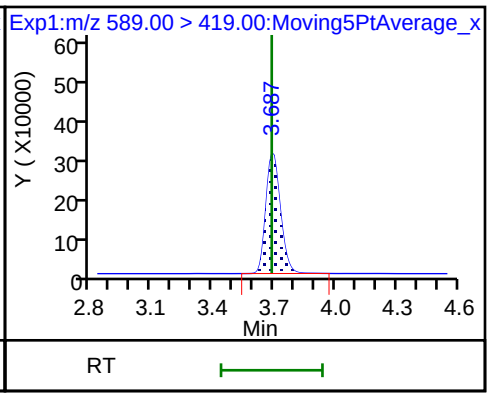
33 N-ethyl perfluorooctane sulfonamid



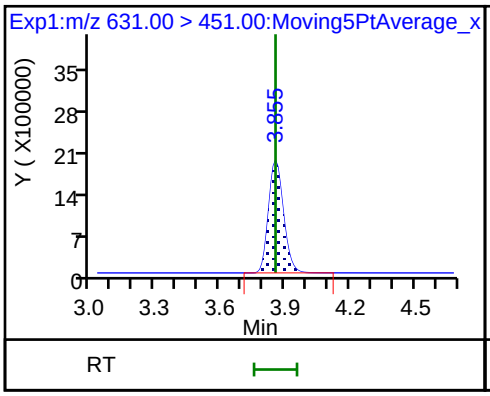
D 30 13C2 PFUnA



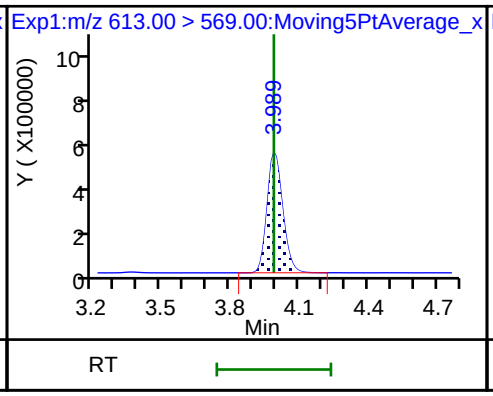
D 32 d5-NEtFOSAA



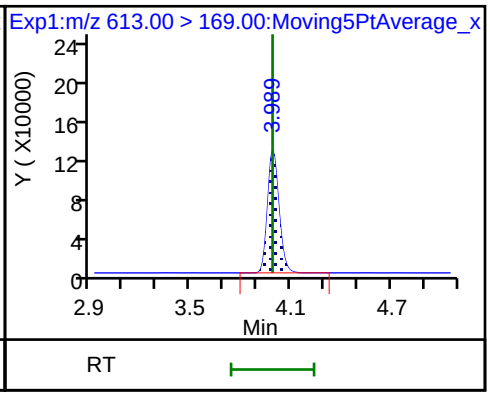
66 11-Chloroeicosafluoro-3-oxaundecan



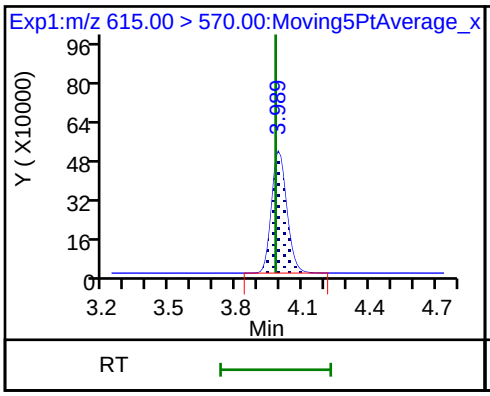
37 Perfluorododecanoic acid



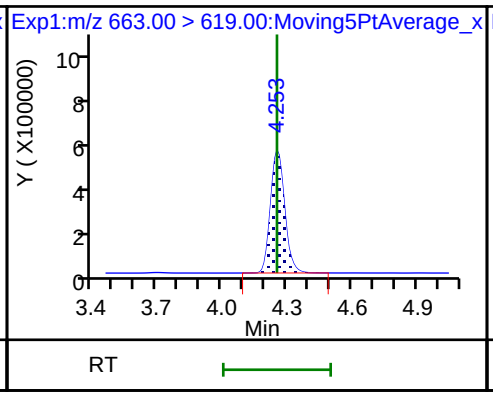
37 Perfluorododecanoic acid



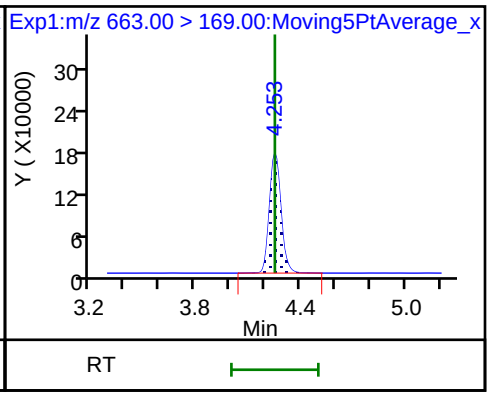
D 36 13C2 PFDoA



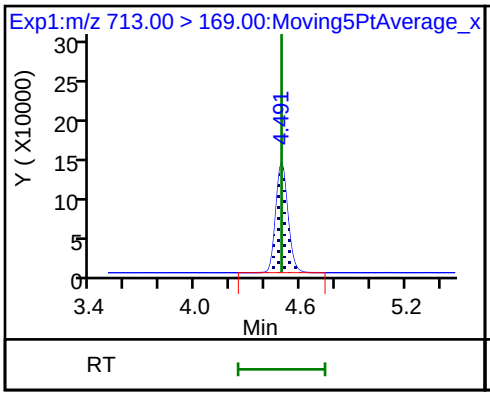
41 Perfluorotridecanoic acid



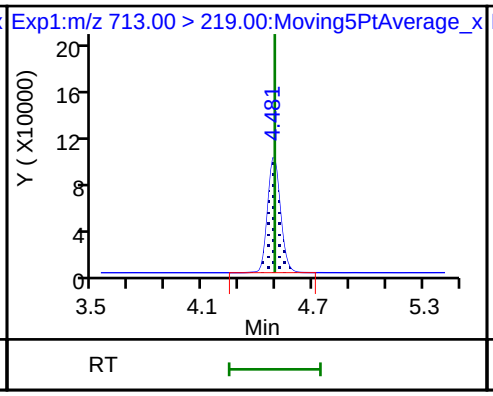
41 Perfluorotridecanoic acid



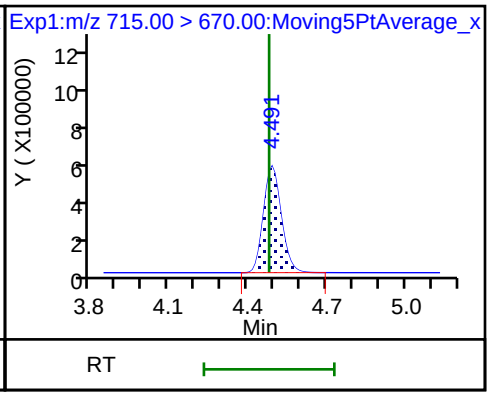
42 Perfluorotetradecanoic acid



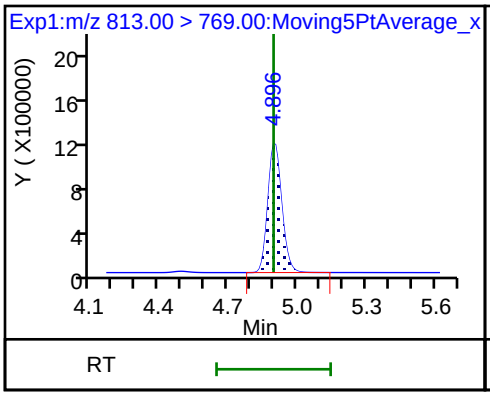
42 Perfluorotetradecanoic acid



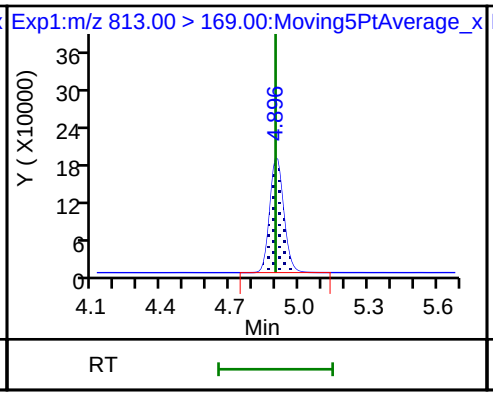
D 43 13C2-PFTeDA



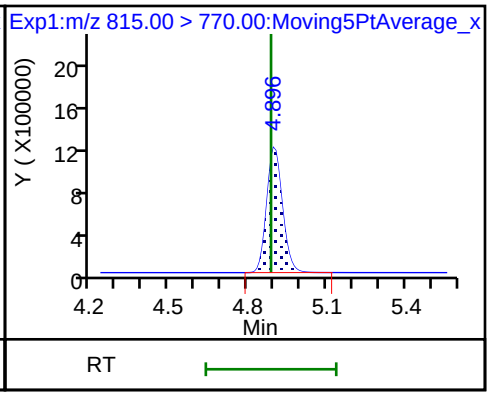
45 Perfluorohexadecanoic acid



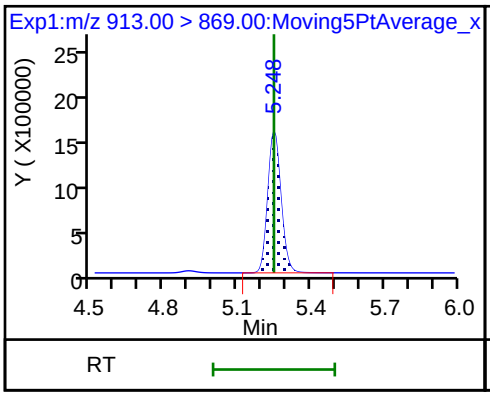
45 Perfluorohexadecanoic acid



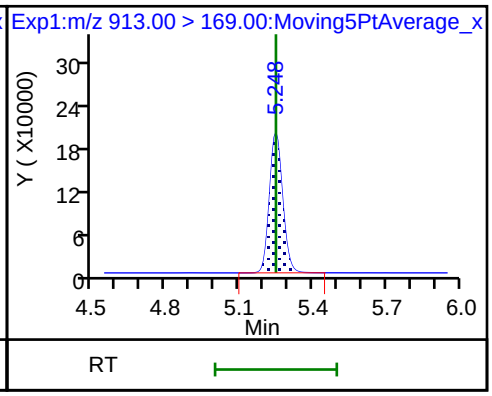
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-233476/10 Calibration Date: 07/11/2018 15:54

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.11LLICALA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.006		2.55	2.50	2.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.190		2.45	2.50	-1.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	75.70		2.19	2.21	-1.0	50.0
4:2 FTS	AveID	13.00	12.39		2.23	2.34	-4.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.045		2.54	2.50	1.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	67.50		2.27	2.35	-3.3	50.0
HFPO-DA (GenX)	AveID	2.654	2.929		2.76	2.50	10.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.129		2.44	2.50	-2.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.139		2.26	2.28	-0.8	40.0
ADONA	AveID	3.219	2.951		2.29	2.50	-8.3	50.0
6:2 FTS	AveID	1.564	1.662		2.52	2.37	6.2	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.189		2.42	2.50	-3.5	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.338		2.42	2.38	1.5	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.129		2.54	2.50	1.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.100		2.25	2.32	-2.9	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.836	1.803		2.29	2.33	-1.8	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9614		2.44	2.50	-2.5	40.0
8:2 FTS	AveID	1.290	1.301		2.42	2.40	0.9	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7807		2.42	2.40	0.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.088		2.59	2.50	3.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	0.9853		2.50	2.50	-0.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6730		2.42	2.41	0.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.8891		2.51	2.50	0.6	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7701		2.35	2.50	-6.0	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.654	2.758		2.45	2.36	4.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.087		2.49	2.50	-0.5	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.119		2.62	2.50	4.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2656		2.55	2.50	2.1	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9129		2.38	2.50	-4.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-233476/10 Calibration Date: 07/11/2018 15:54

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.11LLICALA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.074		2.35	2.50	-6.0	50.0
13C4 PFBA	Ave	1.356	1.378		2.54	2.50	1.6	50.0
13C5 PFPeA	Ave	0.9425	0.9608		2.55	2.50	1.9	50.0
13C3-PFBS	Ave	0.0237	0.0248		2.43	2.33	4.5	50.0
M2-4:2FTS	Ave	0.1273	0.1297		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.017	1.045		2.57	2.50	2.7	50.0
13C3 HFPO-DA	Ave	0.0724	0.0672		2.32	2.50	-7.2	50.0
13C4-PFHpA	Ave	0.9371	0.9594		2.56	2.50	2.4	50.0
18O2 PFHxS	Ave	1.328	1.310		2.33	2.37	-1.3	50.0
M2-6:2FTS	Ave	0.2009	0.1917		2.27	2.38	-4.6	40.0
13C4 PFOA	Ave	0.9560	0.9622		2.52	2.50	0.6	50.0
13C4 PFOS	Ave	0.9742	1.017		2.49	2.39	4.4	50.0
13C5 PFNA	Ave	0.8546	0.8534		2.50	2.50	-0.1	50.0
13C8 FOSA	Ave	1.405	1.507		2.68	2.50	7.3	50.0
M2-8:2FTS	Ave	0.2939	0.2961		2.41	2.40	0.8	40.0
13C2 PFDA	Ave	0.7503	0.7467		2.49	2.50	-0.5	50.0
d3-NMeFOSAA	Ave	0.3075	0.3211		2.61	2.50	4.4	50.0
d5-NEtFOSAA	Ave	0.3150	0.3212		2.55	2.50	1.9	50.0
13C2 PFUnA	Ave	0.6266	0.6524		2.60	2.50	4.1	50.0
13C2 PFDoA	Ave	0.6496	0.6654		2.56	2.50	2.4	50.0
13C2-PFTeDA	Ave	0.6740	0.6932		2.57	2.50	2.8	50.0
13C2-PFHxDA	Ave	1.074	1.173		2.73	2.50	9.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 11-Jul-2018 15:54:23 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:34:22 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:22:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.431	-0.001	0.536	5662549	2.54		102	25171	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.431	0.004	1.004	5694181	2.55			2796	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.702	0.018	1.000	4700361	2.45			1877	
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.702	0.018	0.645	3948505	2.55		102	53954	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.748	0.008	0.658	94606	2.43		105	643	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.751	0.005	1.000	6807777	2.19			64304	
298.90 > 99.00	1.756	1.751	0.005	1.000	2776259		2.45(1.25-3.74)		37604	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.962	0.008	1.122	1177478	2.23			54136	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.962	0.008	0.739	497860	2.38		102	7684	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	1.996	0.007	0.751	4294759	2.57		103	86055	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.998	0.005	1.000	4489753	2.54			10643	
313.00 > 119.00	2.003	1.998	0.005	1.000	410563		10.94(5.03-15.10)		9304	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.022	0.003	1.154	6440627	2.27			105383	
349.00 > 99.00	2.025	2.022	0.003	1.154	2391078		2.69(1.36-4.07)		30821	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.785	276012	2.32		92.8	6290	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	1.000	808359	2.76			4938	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.869	3942808	2.56		102	47725	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	4451513	2.44			8112	
363.00 > 169.00	2.319	2.319	0.0	1.000	1752355		2.54(1.13-3.40)		16512	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	5578276	2.26			27972	
399.00 > 99.00	2.332	2.332	0.0	1.000	1797150		3.10(1.50-4.49)		9813	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.874	5091650	2.33		98.7	57623	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.779	12331342	2.29			79894	
377.00 > 85.00	2.358	2.360	-0.002	0.779	7454068		1.65(0.84-2.53)		36223	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.991	748501	2.27		95.4	13706	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.648	-0.004	1.000	1241375	2.52			19833	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.672	-0.005	1.000	4705604	2.42			3344	
413.00 > 169.00	2.667	2.672	-0.005	1.000	2411704		1.95(0.84-2.52)		11110	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.672	-0.005		4109601	2.50			35548	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.672	-0.005	1.000	3954191	2.52		101	41673	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.674	2.678	-0.004	0.884	5320943	2.42			32575	
449.00 > 99.00	2.674	2.678	-0.004	0.884	1364302		3.90(1.94-5.82)		18490	
D 18 13C4 PFOS										
503.00 > 80.00	3.026	3.034	-0.008	1.135	3994626	2.49		104	29003	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.035	-0.009	1.135	3507198	2.50		99.9	40014	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.035	-0.009	1.000	4265448	2.25			33190	
499.00 > 99.00	3.026	3.035	-0.009	1.000	948802		4.50(2.31-6.93)		11013	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.036	-0.010	1.000	3959562	2.54			8599	
463.00 > 169.00	3.026	3.036	-0.010	1.000	973781		4.07(1.90-5.69)		31878	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.245	-0.012	1.069	7020939	2.29			52039	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.367	-0.006	1.260	6194047	2.68		107	38519	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.371	-0.010	1.000	5955013	2.44			31773	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.371	3.377	-0.006	1.114	3131719	2.42			59993	
549.00 > 99.00	3.371	3.377	-0.006	1.114	1180397		2.65(1.33-3.97)		20818	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.371	3.380	-0.009	1.000	1516938	2.42			27887	
D 26 M2-8:2FTS										
529.00 > 81.00	3.371	3.380	-0.009	1.264	1165739	2.41		101	17380	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.391	-0.011	1.267	3068510	2.49		99.5	30066	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.392	-0.012	1.000	3338723	2.59			15753	
513.00 > 169.00	3.380	3.392	-0.012	1.000	607336		5.50(2.36-7.09)		15281	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.544	-0.015	1.323	1319394	2.61		104	32055	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.548	-0.010	1.003	1299929	2.50			10976	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.701	-0.014	1.219	2710734	2.42			63426	
599.00 > 99.00	3.687	3.701	-0.014	1.219	896556		3.02(1.39-4.16)		18844	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.710	-0.012	1.387	1319907	2.55		102	3301	
D 30 13C2 PFUnA										
565.00 > 520.00	3.709	3.716	-0.007	1.391	2681170	2.60		104	30671	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.709	3.718	-0.009	1.003	1173536	2.51			24732	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.709	3.718	-0.009	1.000	2064714	2.35			10830	
563.00 > 169.00	3.709	3.718	-0.009	1.000	560082		3.69(2.12-6.36)		29000	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.874	-0.008	1.278	10857363	2.45			103159	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.009	-0.010	1.500	2734442	2.56		102	19970	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	4.011	-0.012	1.000	2971924	2.49			1727	
613.00 > 169.00	3.999	4.011	-0.012	1.000	730621		4.07(2.13-6.40)		15446	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.263	4.273	-0.010	1.066	3060870	2.62			1290	
663.00 > 169.00	4.263	4.273	-0.010	1.066	906949		3.37(1.25-3.76)		12570	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.502	4.508	-0.006	1.688	2848581	2.57		103	16350	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.502	4.508	-0.006	1.000	756552	2.55			7628	
713.00 > 219.00	4.491	4.508	-0.017	0.998	522665		1.45(0.71-2.13)		8285	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.843	4820793	2.73		109	12076	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	4400685	2.38			894	
813.00 > 169.00	4.914	4.918	-0.004	1.000	738640		5.96(2.86-8.58)		6323	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.271	-0.008	1.071	5178447	2.35			844	
913.00 > 169.00	5.263	5.271	-0.008	1.071	623997		8.30(3.83-11.48)		5178	

Reagents:

LCPFCIC_FULL_00012 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:34:23 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_010.d

Injection Date: 11-Jul-2018 15:54:23 Instrument ID: A8_N

Lims ID: ICV Full

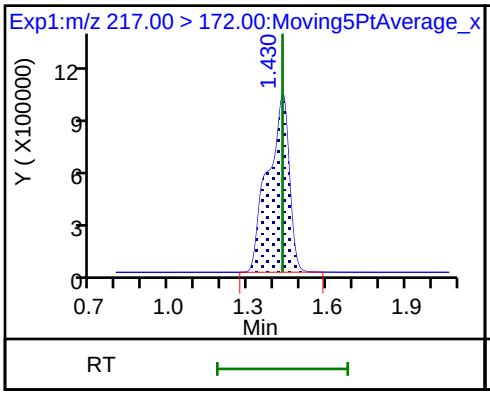
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 17 Worklist Smp#: 10

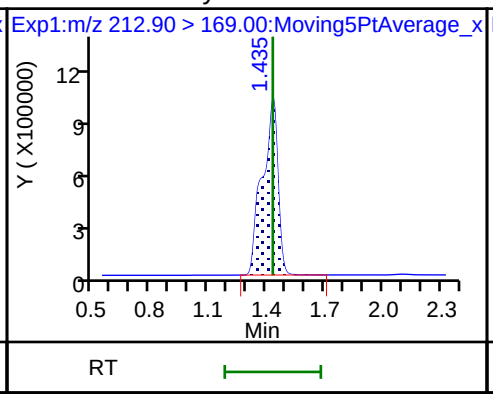
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

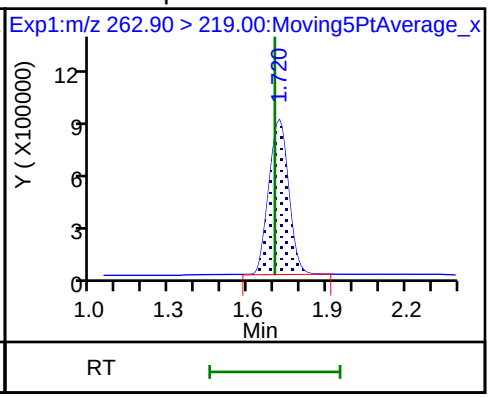
D 1 13C4 PFBA



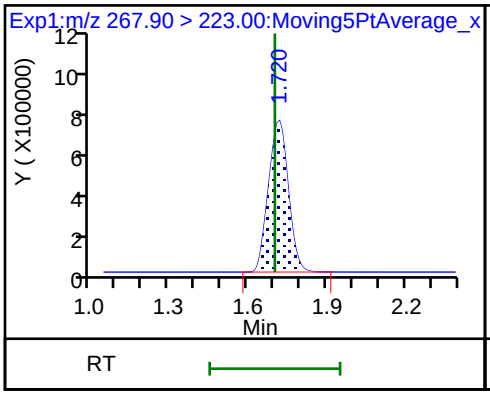
2 Perfluorobutyric acid



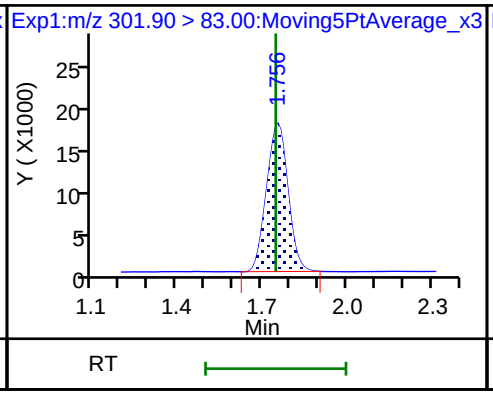
4 Perfluoropentanoic acid



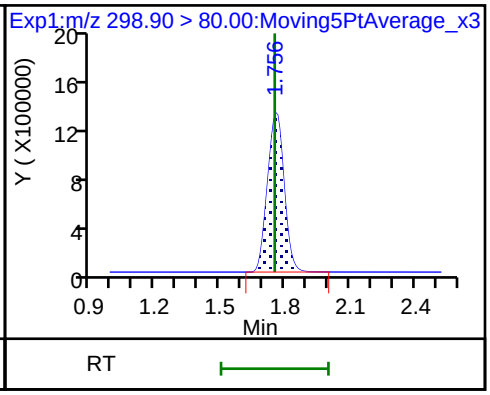
D 3 13C5-PFPeA



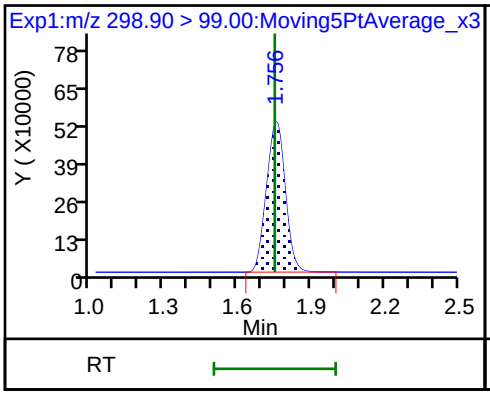
D 47 13C3-PFBS



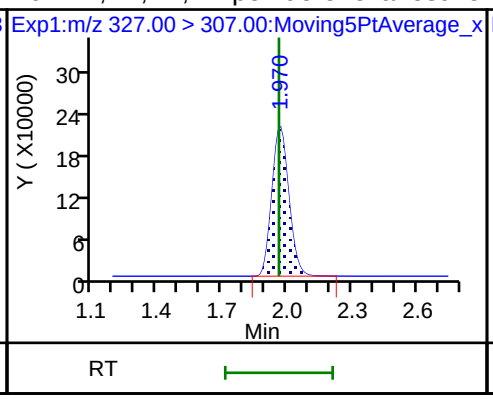
5 Perfluorobutanesulfonic acid



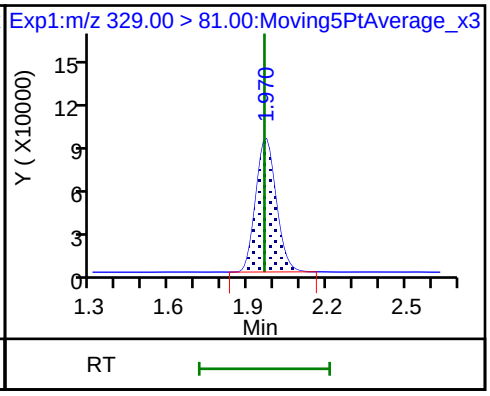
5 Perfluorobutanesulfonic acid



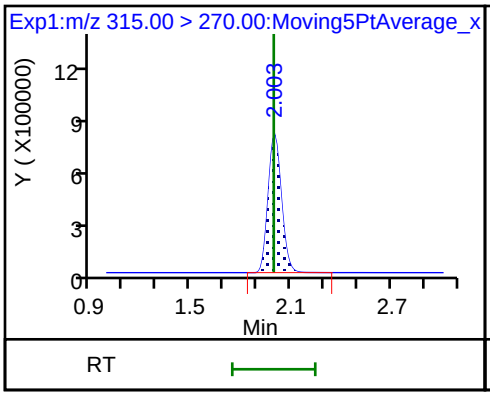
61 1H,1H,2H,2H-perfluorohexanesulfon



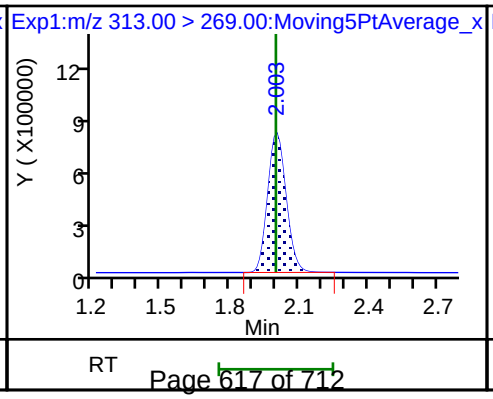
D 60 M2-4:2FTS



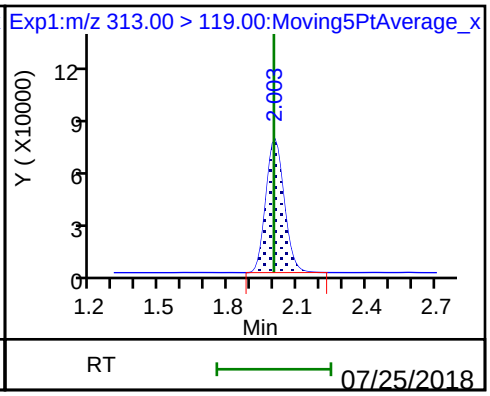
D 7 13C2 PFHxA



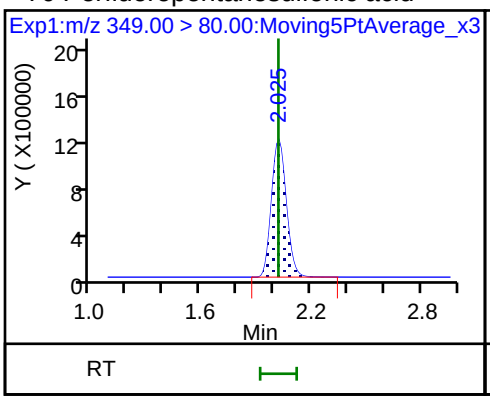
6 Perfluorohexanoic acid



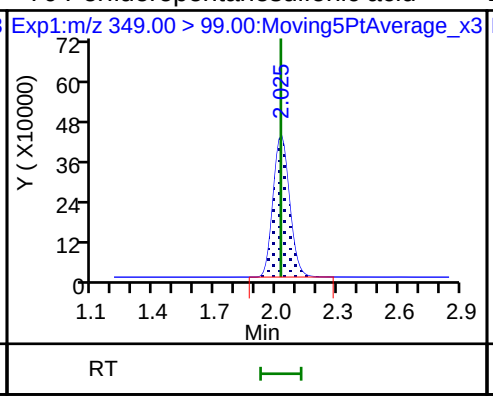
6 Perfluorohexanoic acid



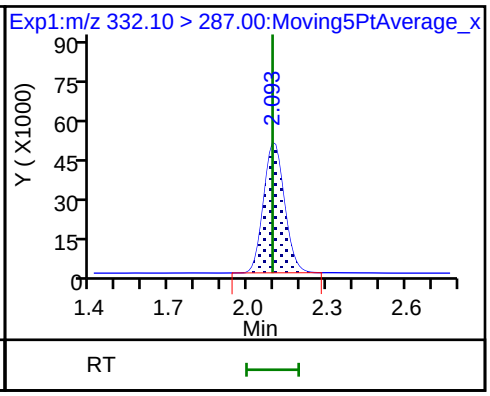
70 Perfluoropentanesulfonic acid



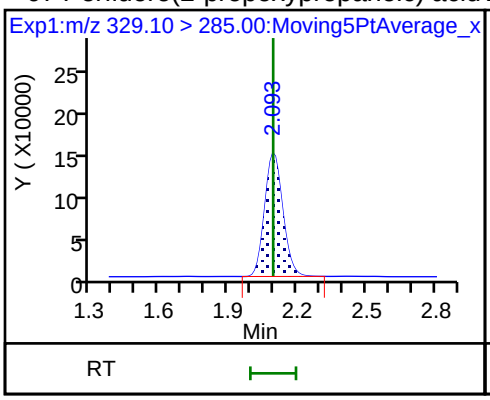
70 Perfluoropentanesulfonic acid



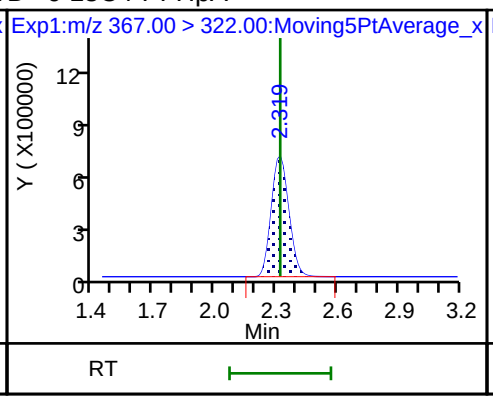
D 64 13C3 HFPO-DA



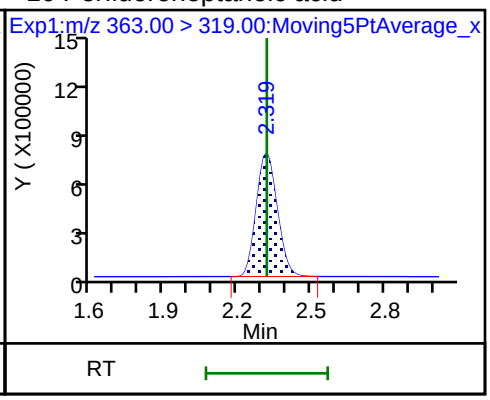
67 Perfluoro(2-propoxypropanoic) acid



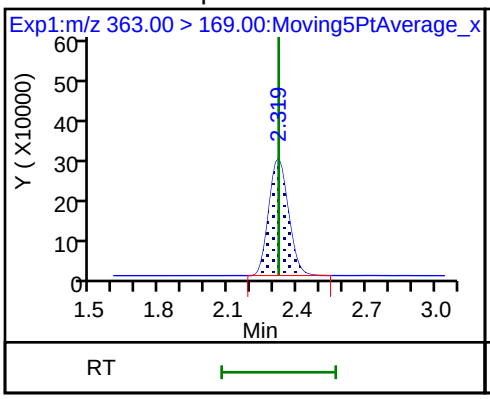
D 9 13C4-PFHpA



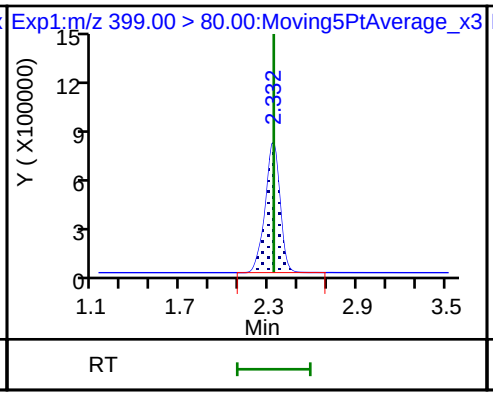
10 Perfluoroheptanoic acid



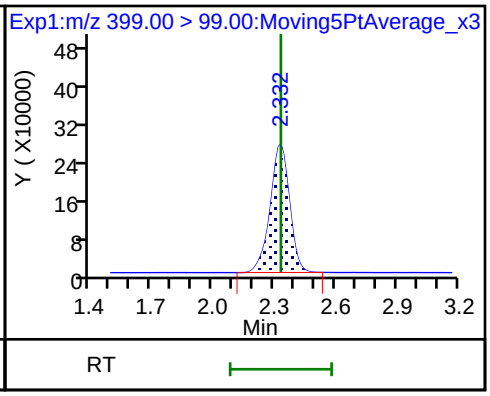
10 Perfluoroheptanoic acid



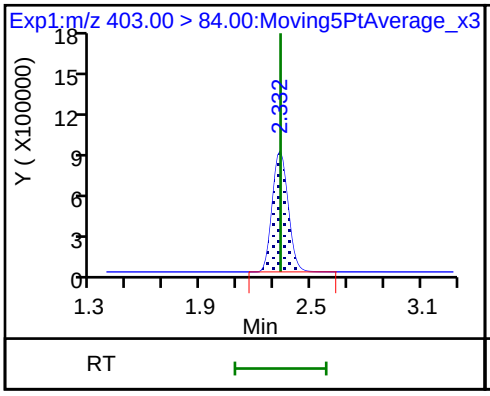
8 Perfluorohexanesulfonic acid



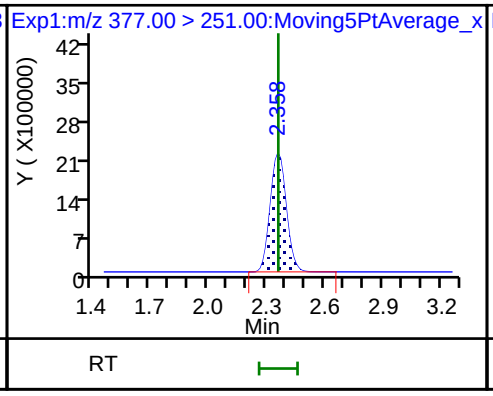
8 Perfluorohexanesulfonic acid



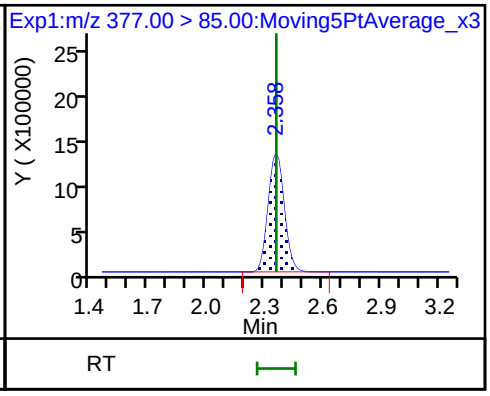
D 11 18O2 PFHxS



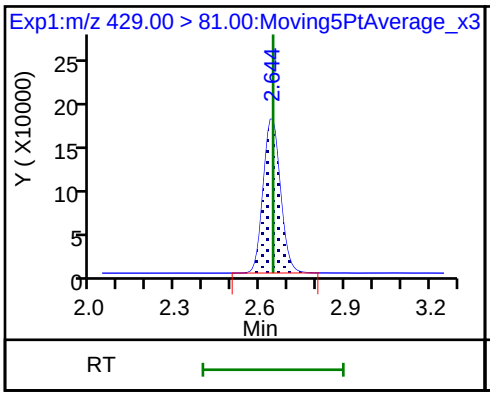
65 Adona



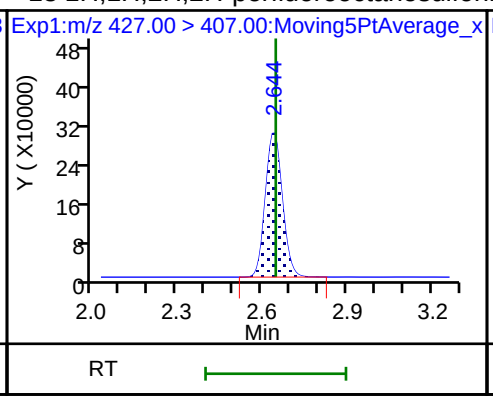
65 Adona



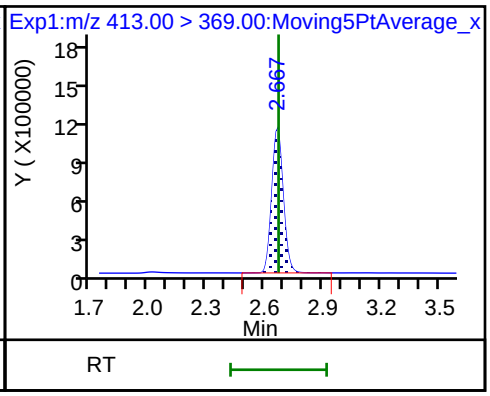
D 12 M2-6:2FTS



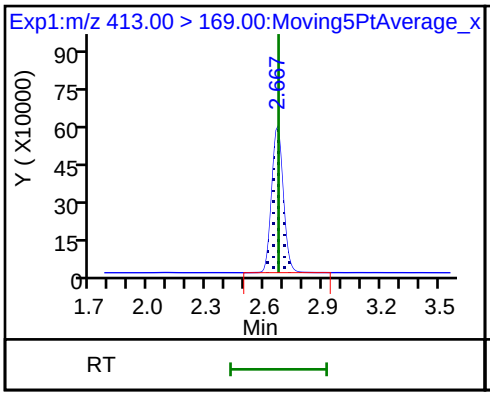
13 1H,1H,2H,2H-perfluorooctanesulfoni



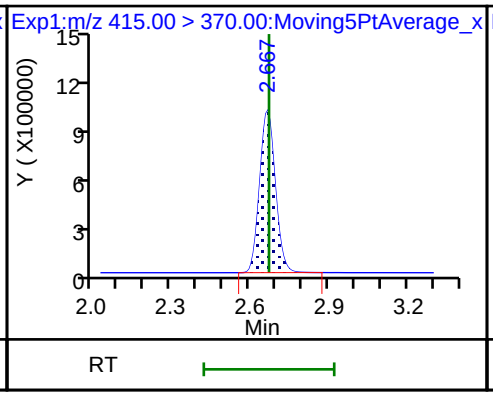
15 Perfluorooctanoic acid



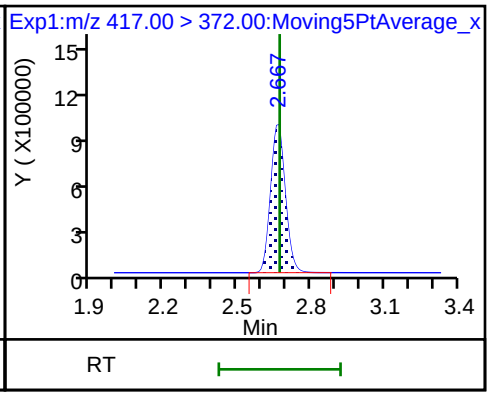
15 Perfluorooctanoic acid



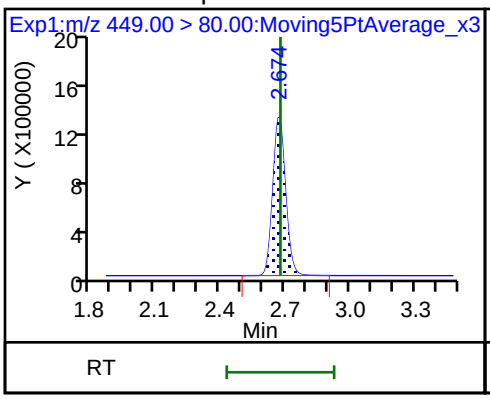
* 62 13C2-PFOA



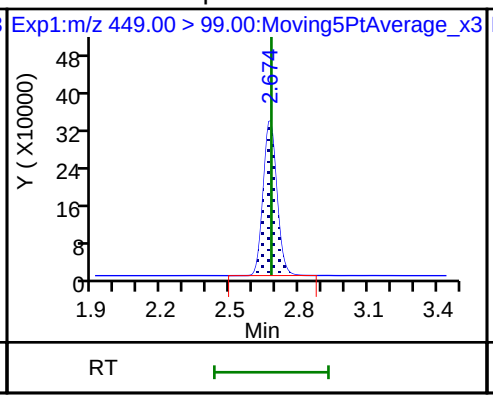
D 14 13C4 PFOA



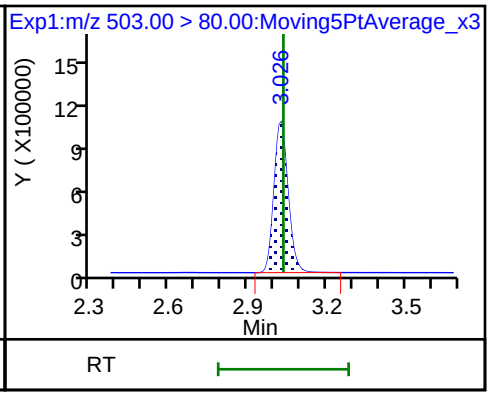
16 Perfluoroheptanesulfonic acid



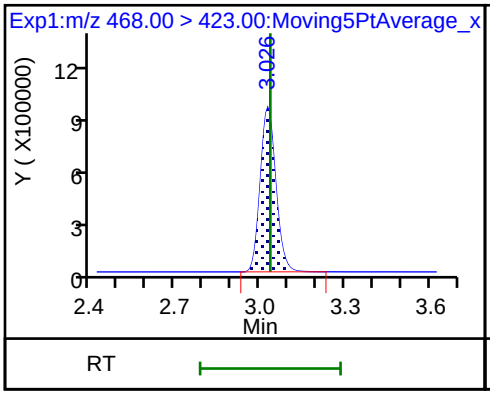
16 Perfluoroheptanesulfonic acid



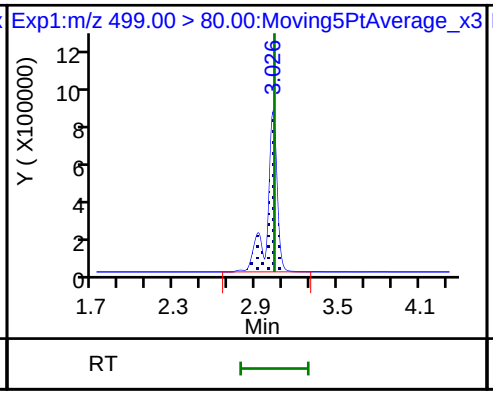
D 18 13C4 PFOS



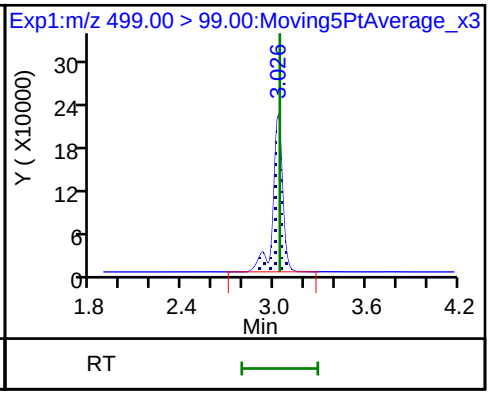
D 19 13C5 PFNA



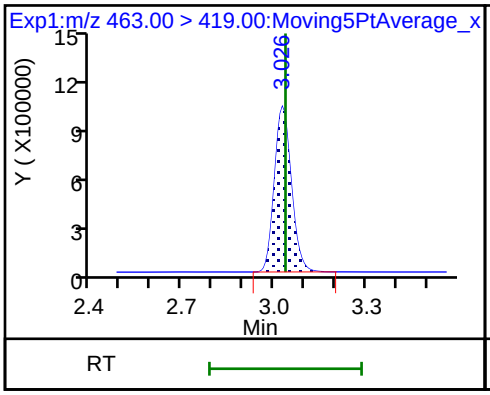
17 Perfluorooctane sulfonic acid



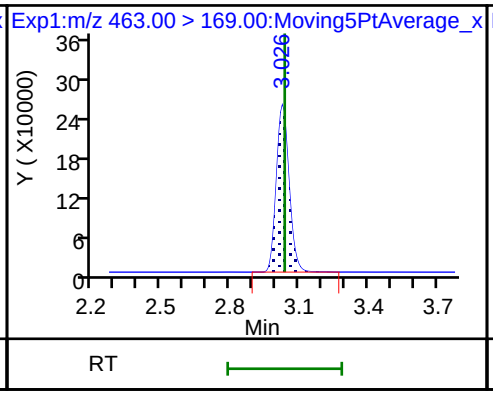
17 Perfluorooctane sulfonic acid



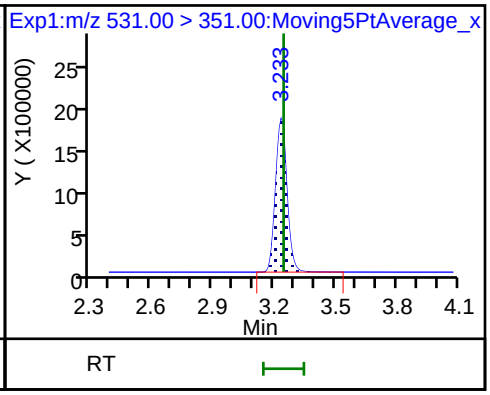
20 Perfluorononanoic acid



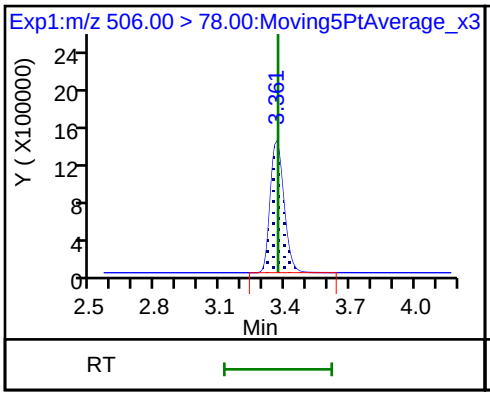
20 Perfluorononanoic acid



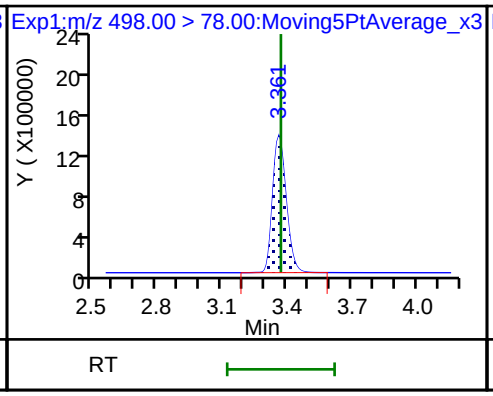
69 9-Chlorohexadecafluoro-3-oxanonane



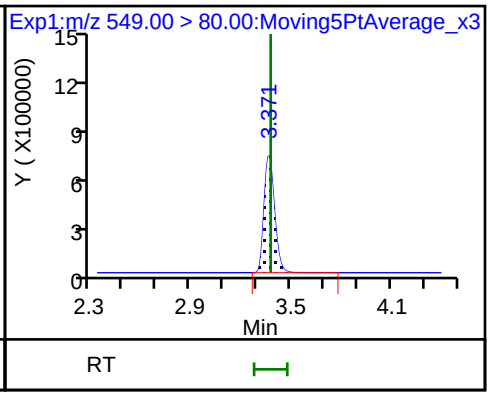
D 21 13C8 FOSA



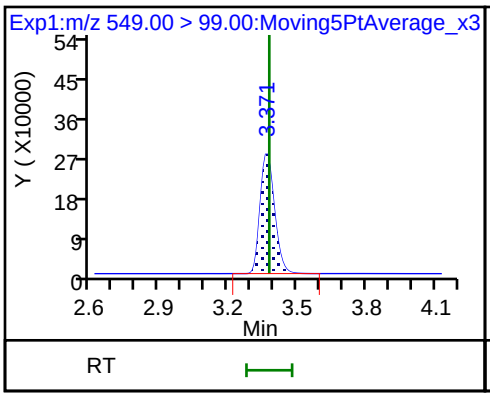
22 Perfluorooctane Sulfonamide



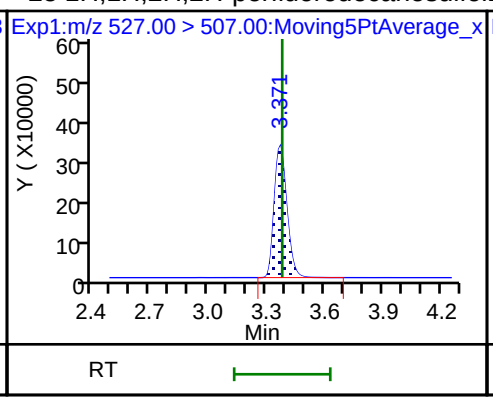
68 Perfluorononanesulfonic acid



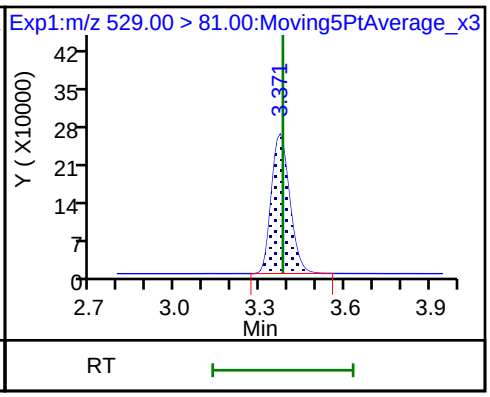
68 Perfluorononanesulfonic acid



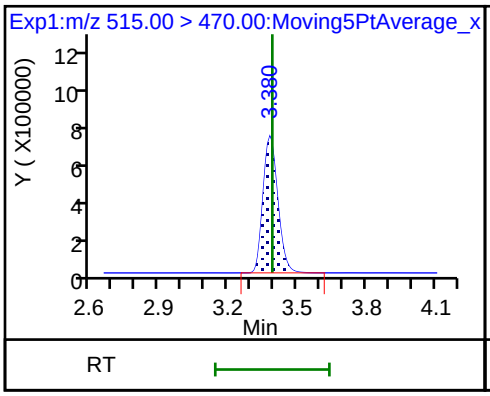
25 1H,1H,2H,2H-perfluorodecanesulfon



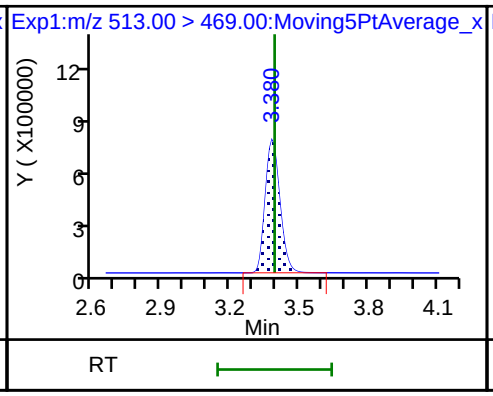
D 26 M2-8:2FTS



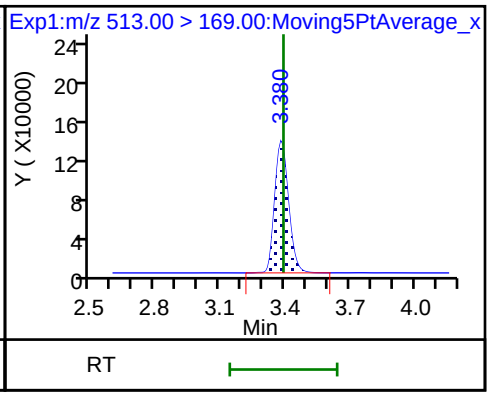
D 23 13C2 PFDA



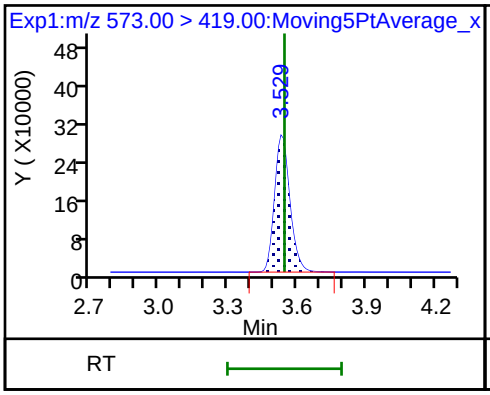
24 Perfluorodecanoic acid



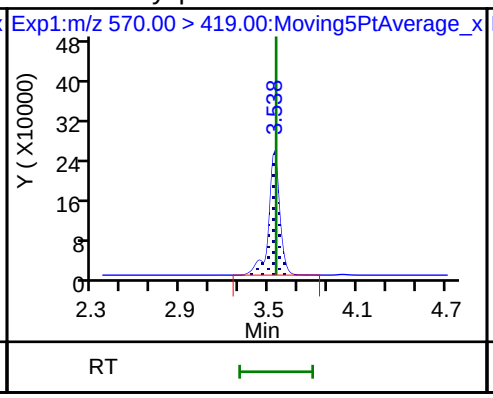
24 Perfluorodecanoic acid



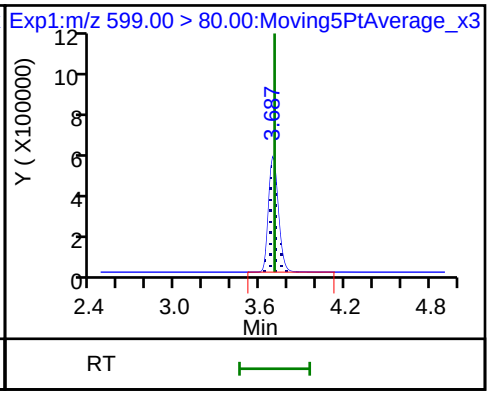
D 27 d3-NMeFOSAA



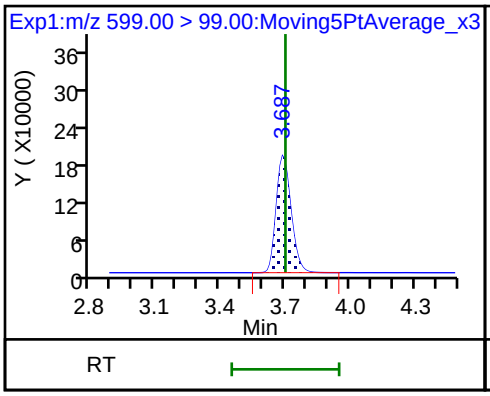
28 N-methyl perfluorooctane sulfonami



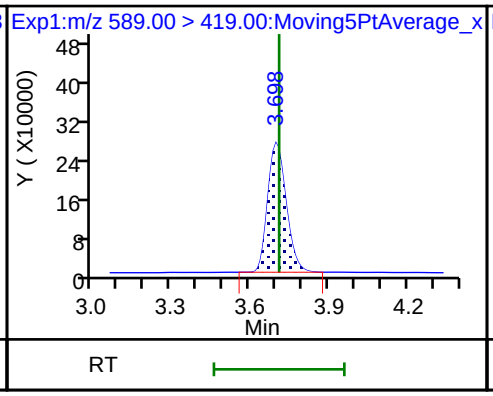
29 Perfluorodecane Sulfonic acid



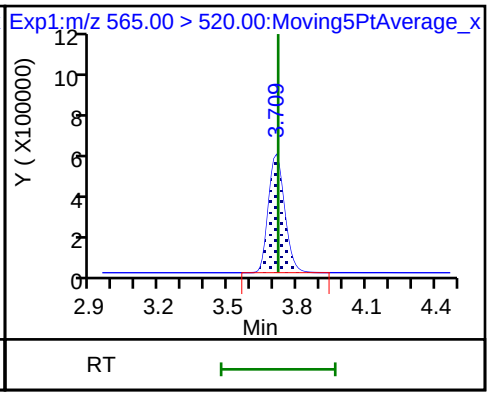
29 Perfluorodecane Sulfonic acid



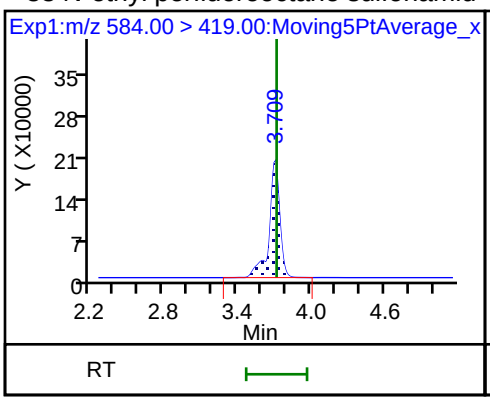
D 32 d5-NEtFOSAA



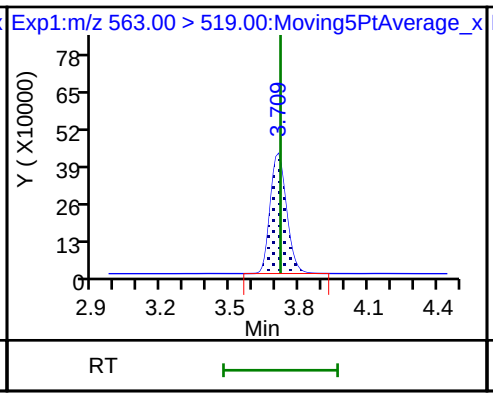
D 30 13C2 PFUnA



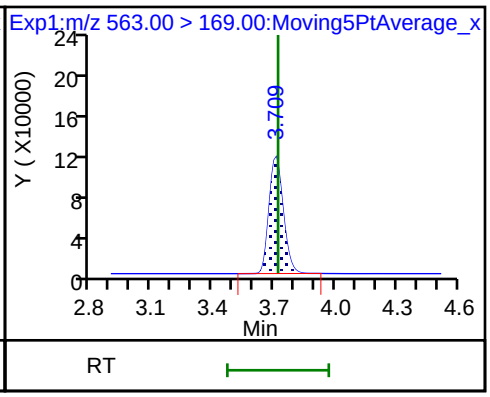
33 N-ethyl perfluorooctane sulfonamid



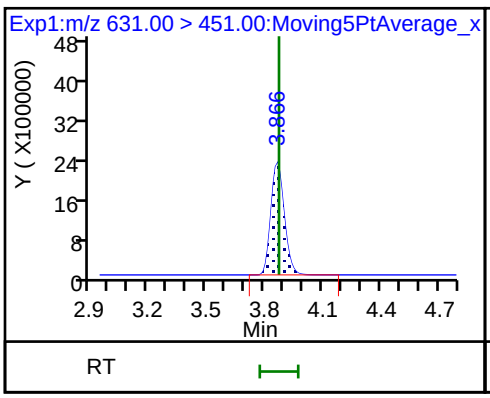
31 Perfluoroundecanoic acid



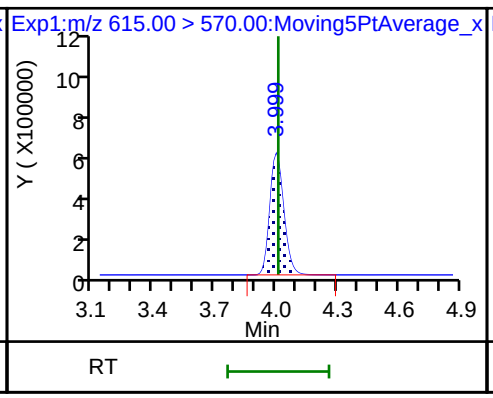
31 Perfluoroundecanoic acid



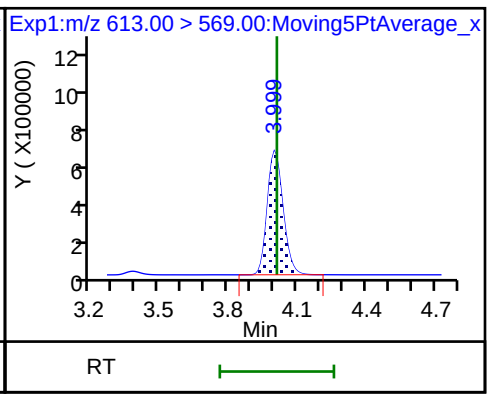
66 11-Chloroeicosafluoro-3-oxaundecan



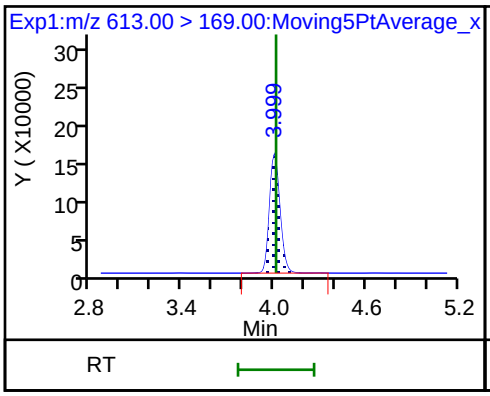
D 36 13C2 PFDoA



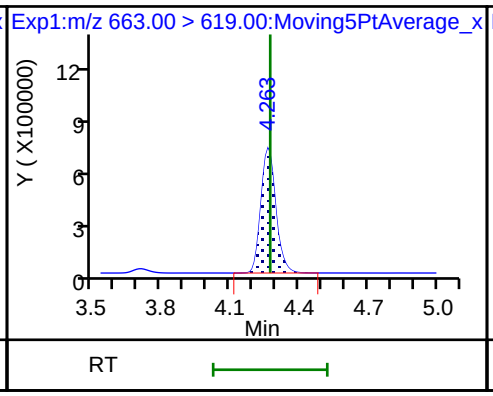
37 Perfluorododecanoic acid



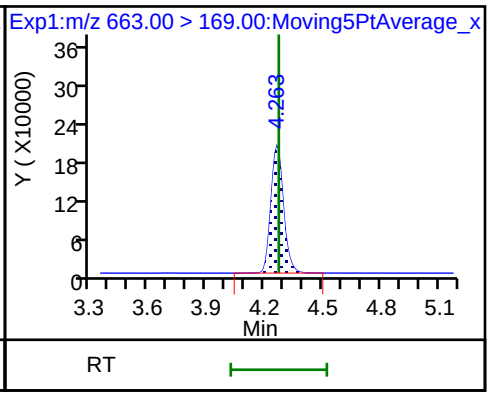
37 Perfluorododecanoic acid



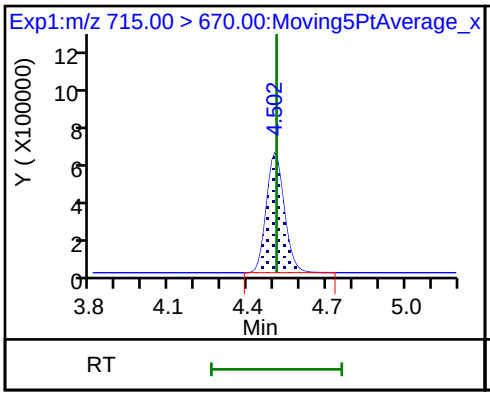
41 Perfluorotridecanoic acid



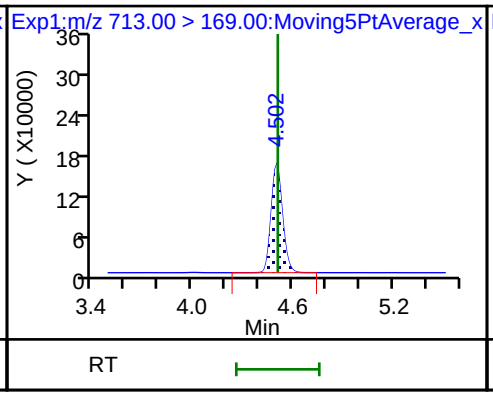
41 Perfluorotridecanoic acid



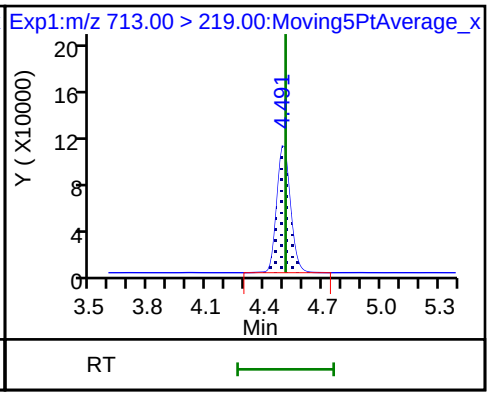
D 43 13C2-PFTeDA



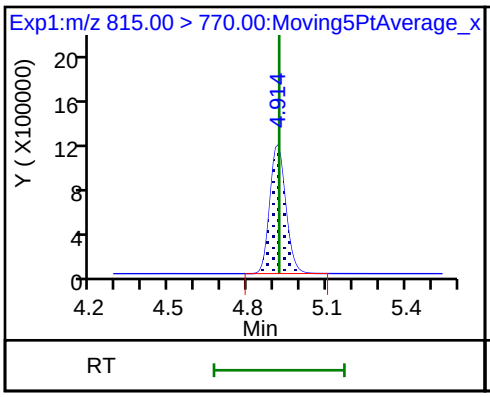
42 Perfluorotetradecanoic acid



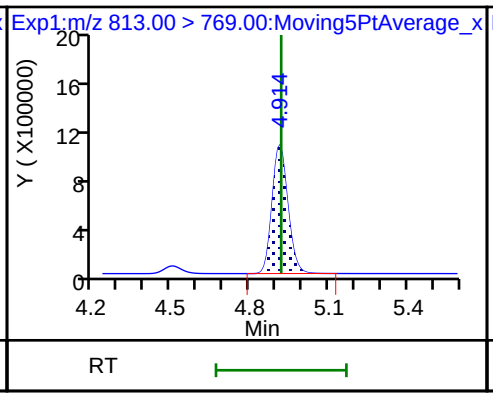
42 Perfluorotetradecanoic acid



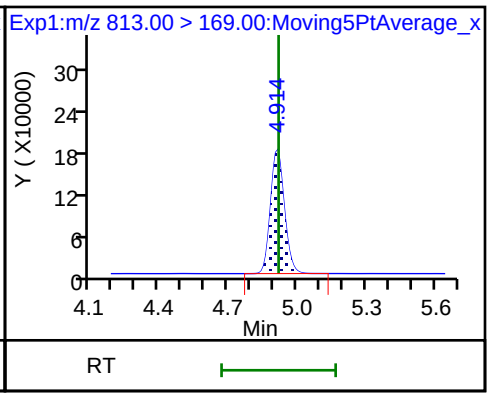
D 44 13C2-PFHxDA



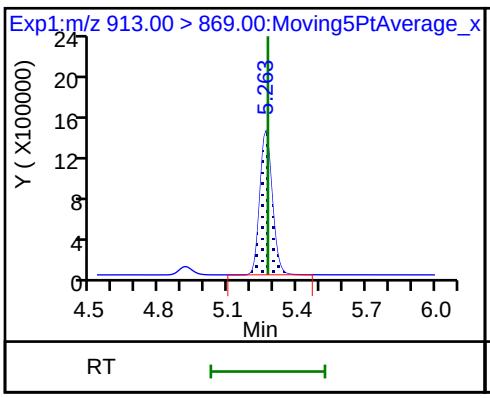
45 Perfluorohexadecanoic acid



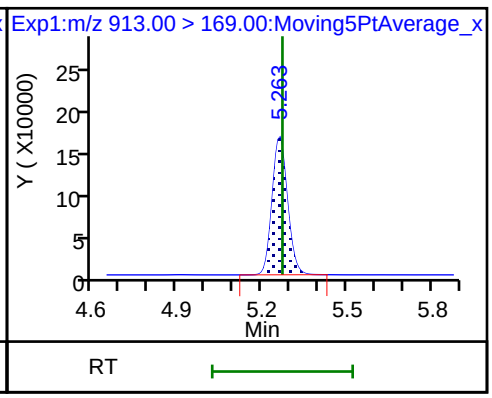
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233780/2 Calibration Date: 07/13/2018 00:10

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.000		0.0507	0.0500	1.5	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.252		0.0516	0.0500	3.2	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	80.07		0.0463	0.0442	4.7	50.0
4:2 FTS	AveID	13.00	14.15			0.0467	8.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.141		0.0554	0.0500	10.8	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	74.55		0.0501	0.0469	6.8	50.0
HFPO-DA (GenX)	AveID	2.654	2.293		0.0432	0.0500	-13.6	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.071		0.0463	0.0500	-7.4	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.253		0.0497	0.0455	9.2	50.0
ADONA	AveID	3.219	3.447		0.0504	0.0471	7.1	50.0
6:2 FTS	AveID	1.564	1.821		0.0552	0.0474	16.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.294		0.0526	0.0501	5.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.384		0.0500	0.0476	5.0	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.134		0.0464	0.0464	0.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.058		0.0477	0.0500	-4.6	50.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.836	1.855		0.0471	0.0466	1.0	50.0
8:2 FTS	AveID	1.290	1.147			0.0479	-11.1	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7544		0.0467	0.0480	-2.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9475		0.0481	0.0500	-3.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.172		0.0558	0.0500	11.7	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	1.019			0.0500	3.3	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6996		0.0502	0.0482	4.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9771		0.0553	0.0500	10.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.8526		0.0520	0.0500	4.0	50.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.654	2.788		0.0495	0.0471	5.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.079		0.0494	0.0500	-1.2	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	0.8974		0.0420	0.0500	-15.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2680		0.0515	0.0500	3.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.376		0.0508	0.0500	1.6	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233780/2 Calibration Date: 07/13/2018 00:10

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.166		0.0510	0.0500	2.0	50.0
13C4 PFBA	Ave	1.356	1.357		2.50	2.50	0.1	50.0
13C5 PFPeA	Ave	0.9425	0.9460		2.51	2.50	0.4	50.0
13C3-PFBS	Ave	0.0237	0.0238		2.33	2.33	0.4	50.0
M2-4:2FTS	Ave	0.1273	0.1272		2.33	2.34	-0.0	50.0
13C2 PFHxA	Ave	1.017	1.081		2.66	2.50	6.3	50.0
13C3 HFPO-DA	Ave	0.0724	0.0872		3.01	2.50	20.5	50.0
13C4-PFHpA	Ave	0.9371	1.008		2.69	2.50	7.6	50.0
18O2 PFHxS	Ave	1.328	1.328		2.37	2.37	0.0	50.0
M2-6:2FTS	Ave	0.2009	0.1941		2.29	2.38	-3.4	50.0
13C4 PFOA	Ave	0.9560	0.9697		2.54	2.50	1.4	50.0
13C4 PFOS	Ave	0.9742	0.9841		2.41	2.39	1.0	50.0
13C5 PFNA	Ave	0.8546	0.8403		2.46	2.50	-1.7	50.0
13C8 FOSA	Ave	1.405	1.504		2.68	2.50	7.0	50.0
M2-8:2FTS	Ave	0.2939	0.2594		2.11	2.40	-11.7	50.0
13C2 PFDA	Ave	0.7503	0.7546		2.51	2.50	0.6	50.0
d3-NMeFOSAA	Ave	0.3075	0.3372		2.74	2.50	9.7	50.0
d5-NEtFOSAA	Ave	0.3150	0.3953		3.14	2.50	25.5	50.0
13C2 PFUnA	Ave	0.6266	0.6483		2.59	2.50	3.5	50.0
13C2 PFDoA	Ave	0.6496	0.7146		2.75	2.50	10.0	50.0
13C2-PFTeDA	Ave	0.6740	0.7415		2.75	2.50	10.0	50.0
13C2-PFHxDA	Ave	1.074	1.228		2.86	2.50	14.4	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 13-Jul-2018 00:10:05 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:05:01 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:05:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.428	1.424	0.004	1.000	103241	0.0507		101	56.8	
D 1 13C4 PFBA										
217.00 > 172.00	1.428	1.429	-0.001	0.536	5161572	2.50		100	24612	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.719	-0.002	0.644	3597228	2.51		100	46749	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.717	1.720	-0.003	1.000	90080	0.0516		103	34.7	M
D 47 13C3-PFBS										
301.90 > 83.00	1.762	1.764	-0.002	0.661	84119	2.33		100	583	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.765	-0.003	1.000	128052	0.0463		105	1349	
298.90 > 99.00	1.762	1.765	-0.003	1.000	51679		2.48(1.25-3.74)		1051	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.978	1.970	0.008	1.123	23908	0.0508		109	1074	
D 60 M2-4:2FTS										
329.00 > 81.00	1.978	1.980	-0.002	0.742	451634	2.33		99.9	8992	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.003	0.008	1.000	93793	0.0554		111	250	
313.00 > 119.00	2.011	2.003	0.008	1.000	9329		10.05(5.03-15.10)		206	
D 7 13C2 PFHxA										
315.00 > 270.00	2.011	2.014	-0.003	0.754	4111216	2.66		106	55546	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.034	2.026	0.008	1.154	126503	0.0501		107	3738	
349.00 > 99.00	2.022	2.026	-0.004	1.148	42615		2.97(1.36-4.07)		1229	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.094	0.007	1.000	15201	0.0432		86.4	118	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.104	-0.003	0.788	331538	3.01		120	7440	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.319	-0.003	0.869	3834162	2.69		108	45935	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.320	-0.004	1.000	82139	0.0463		92.6	173	
363.00 > 169.00	2.329	2.320	0.009	1.006	32275		2.54(1.13-3.40)		381	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.333	-0.004	1.000	115166	0.0497		109	1291	
399.00 > 99.00	2.329	2.333	-0.004	1.000	40087		2.87(1.50-4.49)		407	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.345	-0.016	0.874	4777420	2.37		100	44263	
65 Adona										
377.00 > 251.00	2.369	2.359	0.010	0.783	243048	0.0504		107	5276	
377.00 > 85.00	2.369	2.359	0.010	0.783	141514		1.72(0.84-2.53)		1003	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.643	2.644	-0.001	1.000	25481	0.0552		116	853	
D 12 M2-6:2FTS										
429.00 > 81.00	2.643	2.652	-0.009	0.991	701246	2.29		96.6	18838	
* 62 13C2-PFOA										
415.00 > 370.00	2.666	2.668	-0.002		3802645	2.50			33668	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.666	2.668	-0.002	1.000	95532	0.0526		105	55.4	
413.00 > 169.00	2.666	2.668	-0.002	1.000	50441		1.89(0.84-2.52)		295	
D 14 13C4 PFOA										
417.00 > 372.00	2.666	2.674	-0.008	1.000	3687592	2.54		101	40149	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.675	-0.002	0.883	98608	0.0500		105	3424	
449.00 > 99.00	2.673	2.675	-0.002	0.883	26586		3.71(1.94-5.82)		904	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.027	3.024	0.003	1.000	78767	0.0464		100	2240	
499.00 > 99.00	3.034	3.024	0.010	1.002	19629		4.01(2.31-6.93)		316	
20 Perfluorononanoic acid										
463.00 > 419.00	3.034	3.024	0.010	1.000	67616	0.0477		95.4	177	
463.00 > 169.00	3.034	3.024	0.010	1.000	18610		3.63(1.90-5.69)		965	
D 19 13C5 PFNA										
468.00 > 423.00	3.034	3.030	0.004	1.138	3195433	2.46		98.3	41621	
D 18 13C4 PFOS										
503.00 > 80.00	3.027	3.030	-0.003	1.135	3577399	2.41		101	33537	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.242	3.232	0.010	1.071	129380	0.0471		101	1682	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.372	3.361	0.011	1.114	54204	0.0467		97.3	2115	
549.00 > 99.00	3.372	3.361	0.011	1.114	23428		2.31(1.33-3.97)		644	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.368	0.004	1.265	5717499	2.68		107	42141	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.370	0.002	1.000	108347	0.0481		96.1	3556	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.372	3.370	0.002	1.000	21680	0.0426		88.9	351	
D 26 M2-8:2FTS										
529.00 > 81.00	3.372	3.378	-0.006	1.265	944959	2.11		88.3	17874	
24 Perfluorodecanoic acid										R
513.00 > 469.00	3.382	3.380	0.002	1.000	67269	0.0558		112	454	R
513.00 > 169.00	3.382	3.380	0.002	1.000	9177		7.33(2.36-7.09)		424	
D 23 13C2 PFDA										
515.00 > 470.00	3.382	3.387	-0.005	1.268	2869484	2.51		101	25972	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.531	3.536	-0.005	1.325	1282239	2.74		110	25391	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.540	3.538	0.002	1.003	26123	0.0517		103	250	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.689	3.687	0.002	1.219	50475	0.0502		104	2108	
599.00 > 99.00	3.689	3.687	0.002	1.219	14494		3.48(1.39-4.16)		613	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.698	0.013	1.003	29375	0.0553		111	700	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.698	0.013	1.000	42036	0.0520		104	206	
563.00 > 169.00	3.711	3.698	0.013	1.000	14128		2.98(2.12-6.36)		978	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.700	3.707	-0.007	1.388	1503182	3.14		125	3947	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.707	0.004	1.392	2465220	2.59		103	73344	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.867	3.855	0.012	1.278	196520	0.0495		105	6886	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	3.999	0.0	1.000	58621	0.0494		98.8	40.6	
613.00 > 169.00	3.999	3.999	0.0	1.000	15521		3.78(2.13-6.40)		480	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.500	2717350	2.75		110	23239	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	48772	0.0420		84.1	26.3	
663.00 > 169.00	4.262	4.262	0.0	1.066	17738		2.75(1.25-3.76)		489	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.491	0.010	1.000	15115	0.0515		103	265	
713.00 > 219.00	4.490	4.491	-0.001	0.998	10037		1.51(0.71-2.13)		269	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.501	0.0	1.688	2819673	2.75		110	15741	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.840	4671219	2.86		114	12339	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	128509	0.0508		102	28.8	
813.00 > 169.00	4.905	4.905	0.0	1.000	23636		5.44(2.86-8.58)		264	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	108960	0.0510		102	21.5	
913.00 > 169.00	5.255	5.255	0.0	1.071	12974		8.40(3.83-11.48)		248	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:05:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d

Injection Date: 13-Jul-2018 00:10:05 Instrument ID: A8_N

Lims ID: CCVL

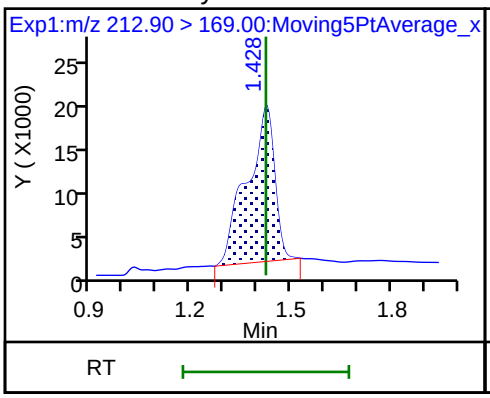
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

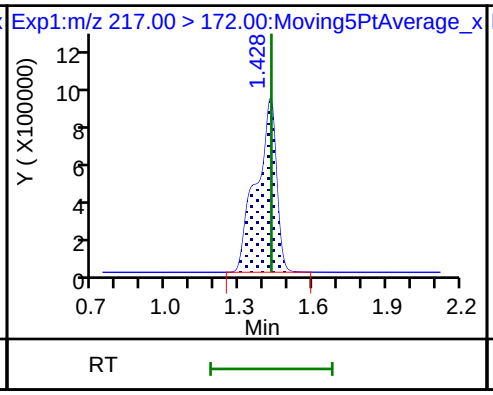
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

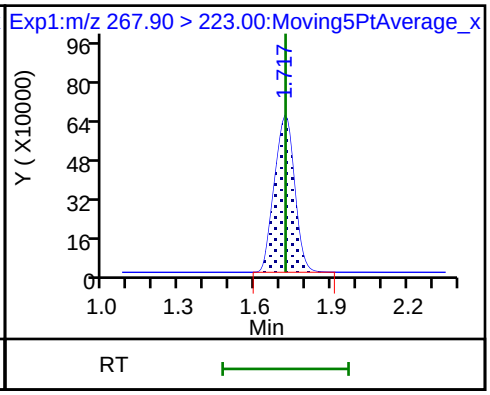
2 Perfluorobutyric acid



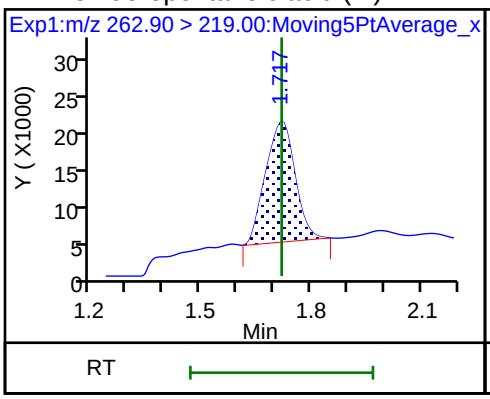
D 1 13C4 PFBA



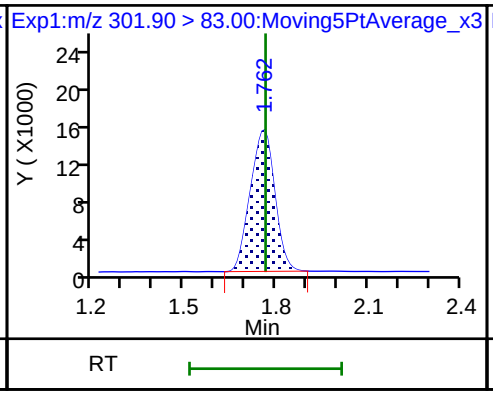
D 3 13C5-PFPeA



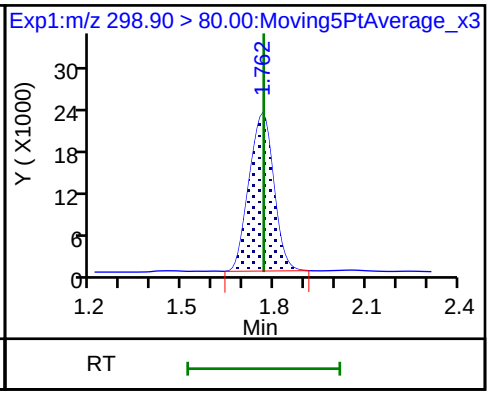
4 Perfluoropentanoic acid (M)



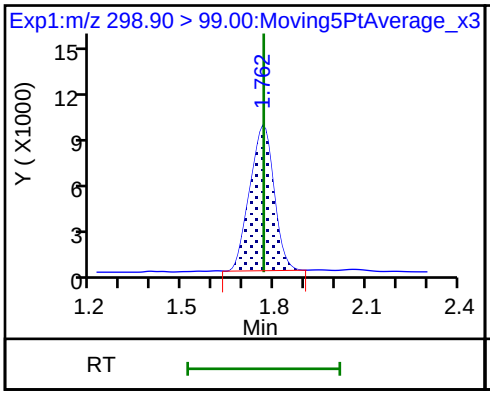
D 47 13C3-PFBS



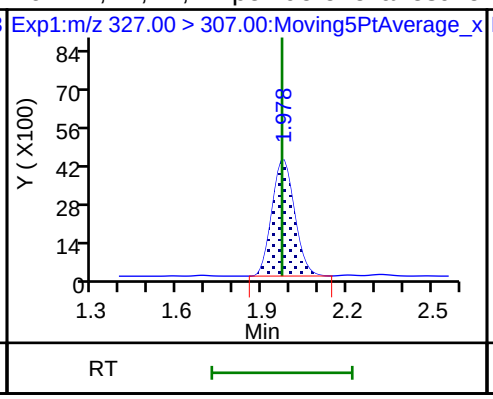
5 Perfluorobutanesulfonic acid



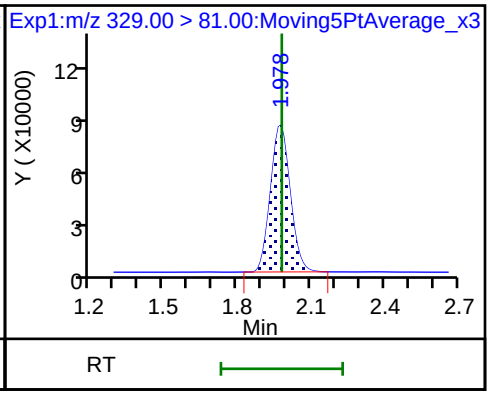
5 Perfluorobutanesulfonic acid



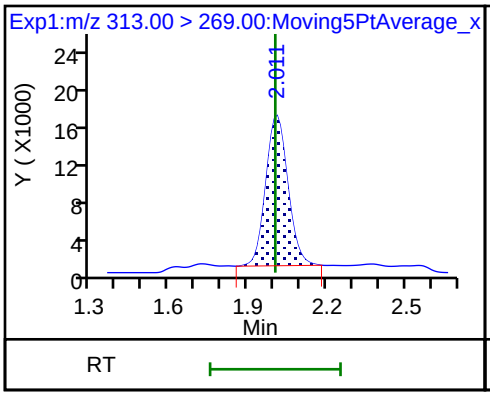
61 1H,1H,2H,2H-perfluorohexanesulfon



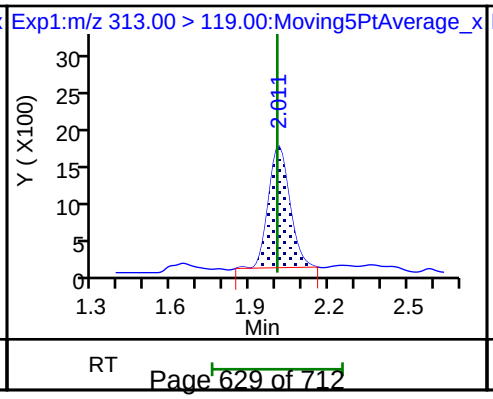
D 60 M2-4:2FTS



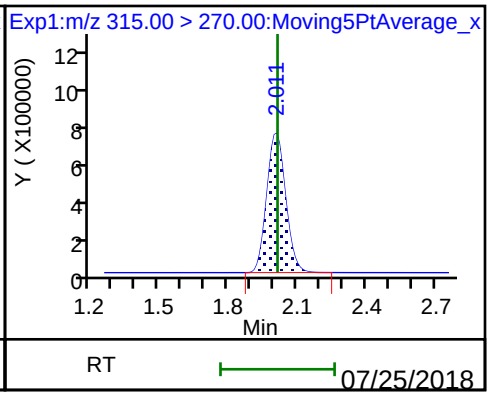
6 Perfluorohexanoic acid



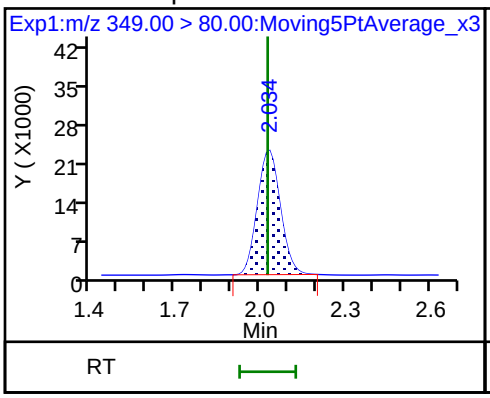
6 Perfluorohexanoic acid



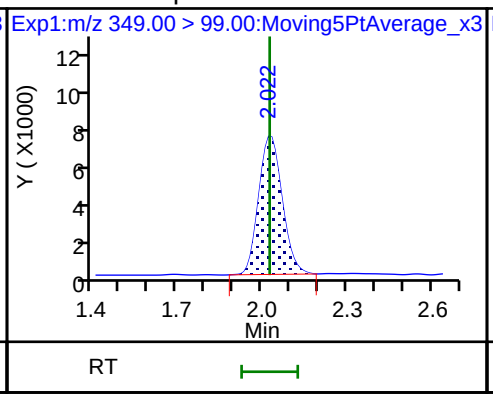
D 7 13C2 PFHxA



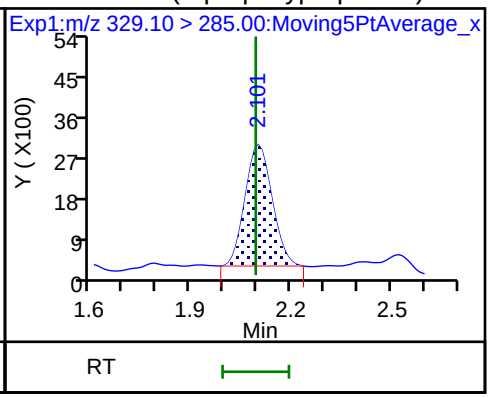
70 Perfluoropentanesulfonic acid



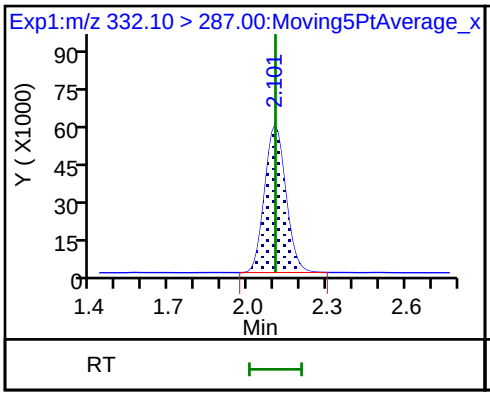
70 Perfluoropentanesulfonic acid



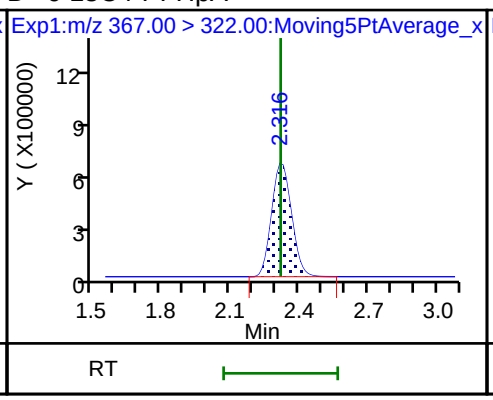
67 Perfluoro(2-propoxypropanoic) acid



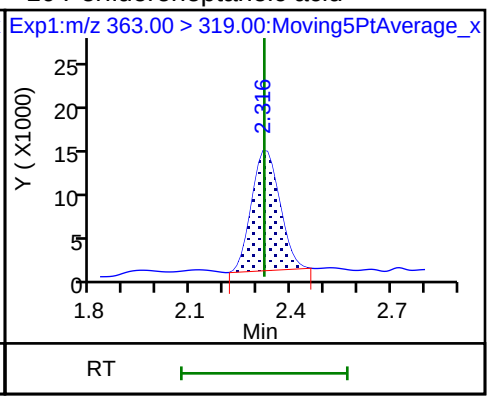
D 64 13C3 HFPO-DA



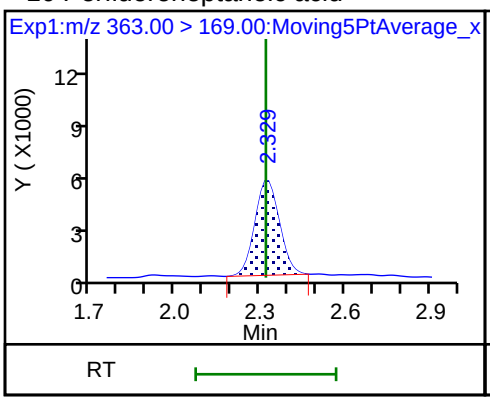
D 9 13C4-PFHpA



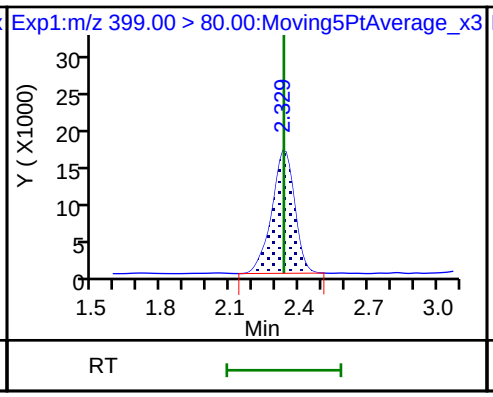
10 Perfluoroheptanoic acid



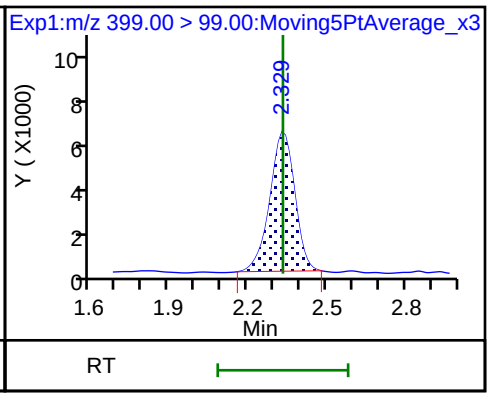
10 Perfluoroheptanoic acid



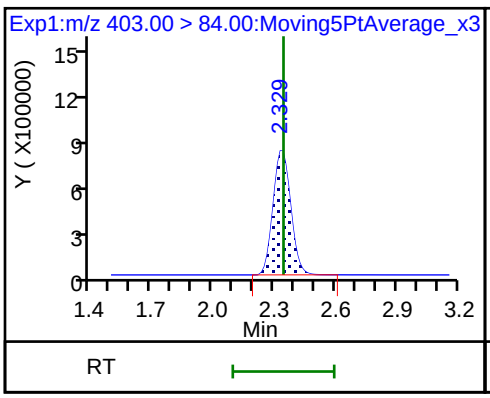
8 Perfluorohexanesulfonic acid



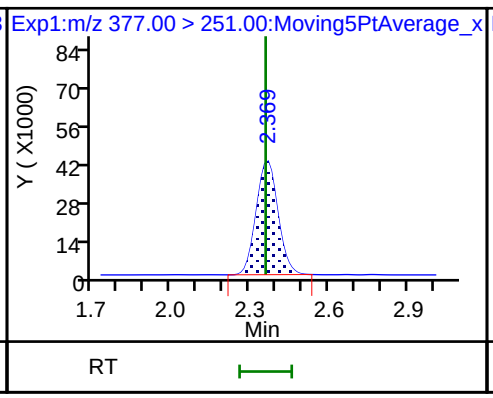
8 Perfluorohexanesulfonic acid



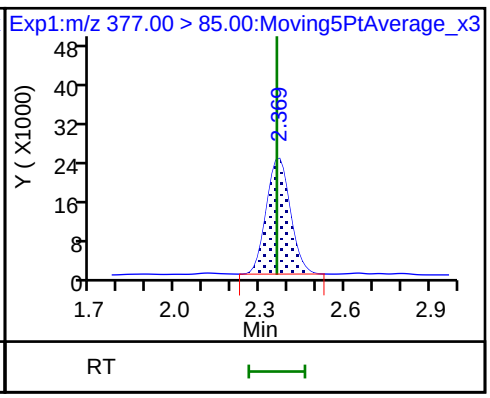
D 11 18O2 PFHxS



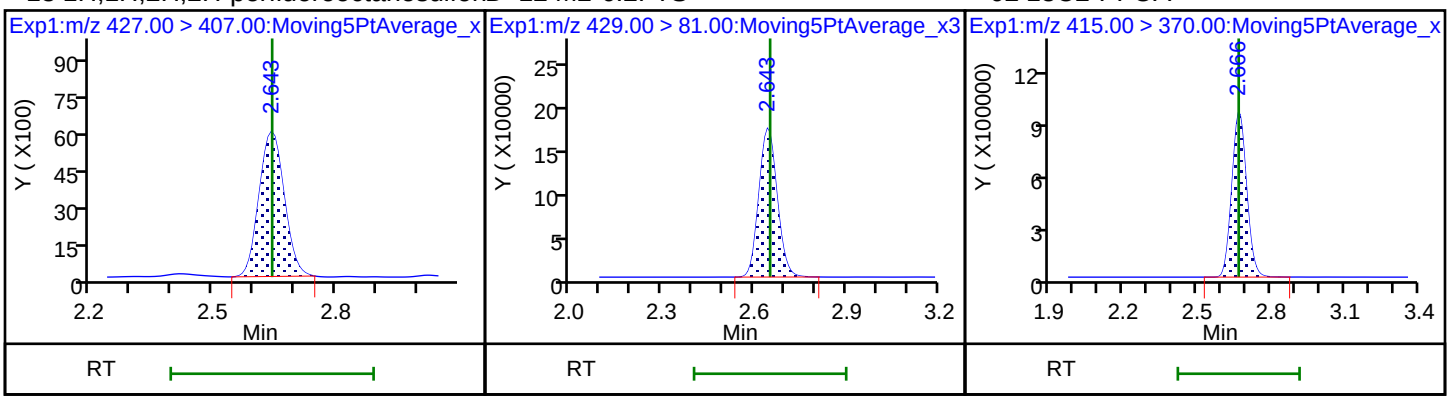
65 Adona



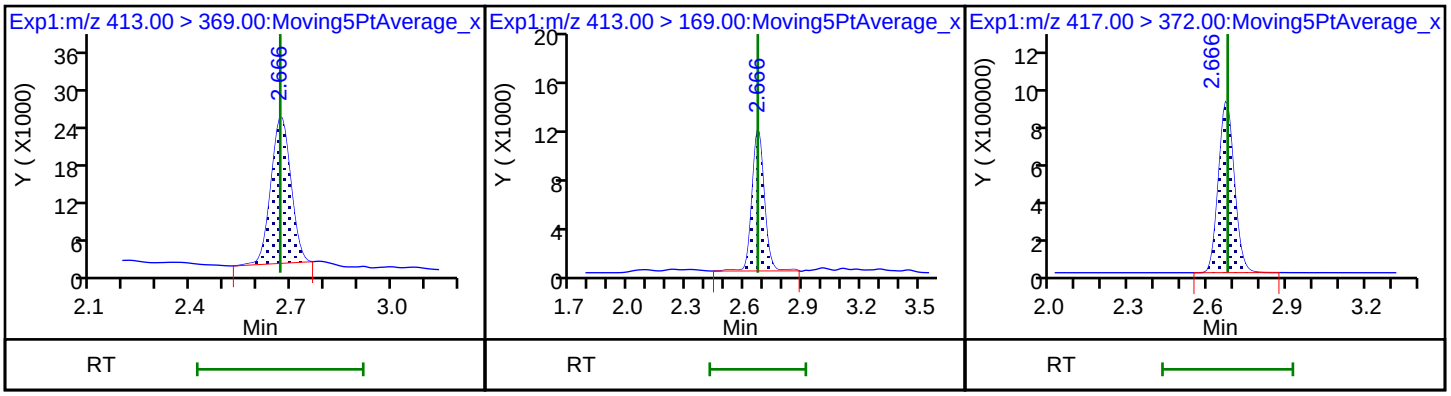
65 Adona



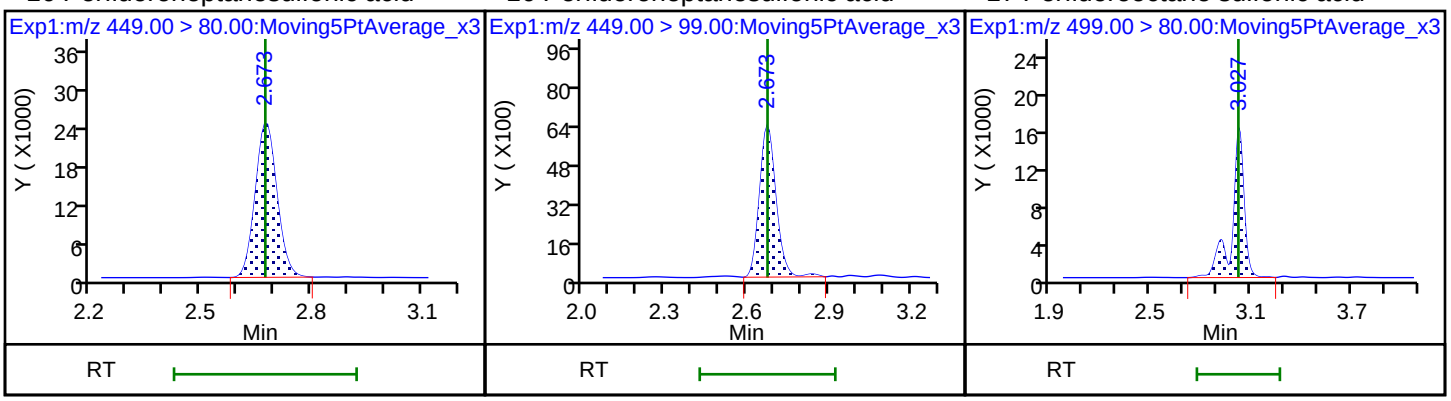
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



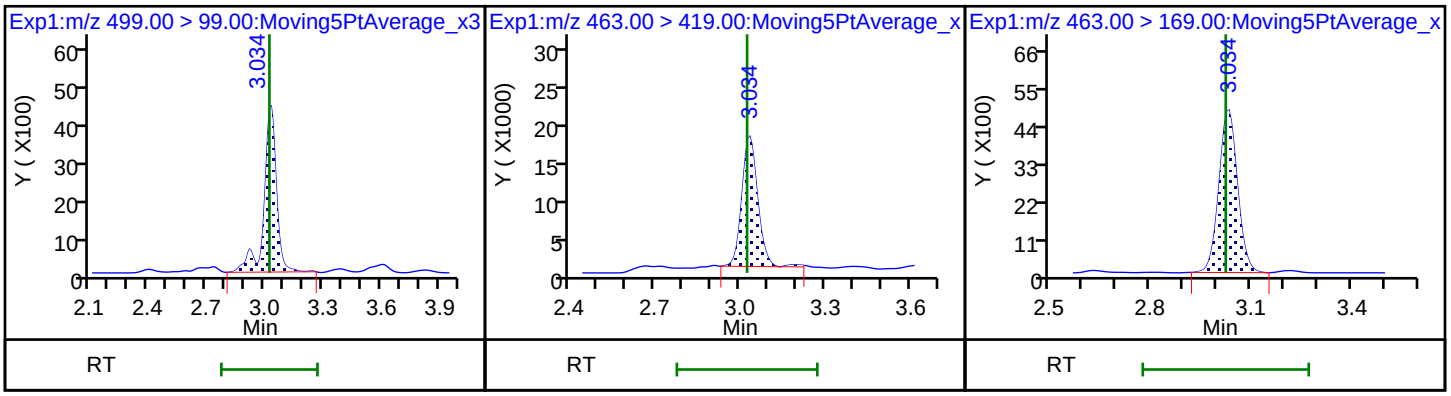
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



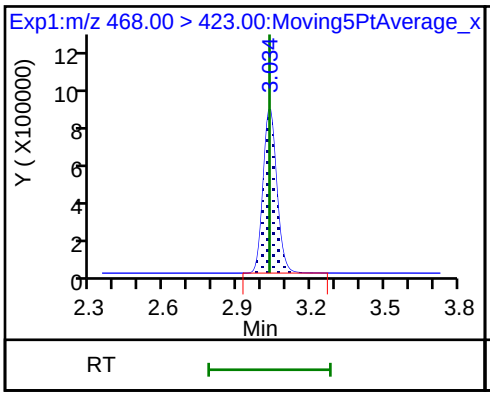
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



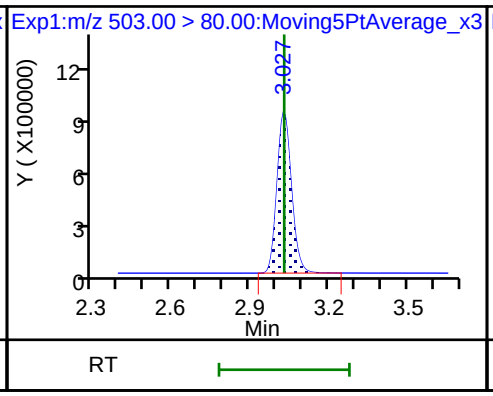
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



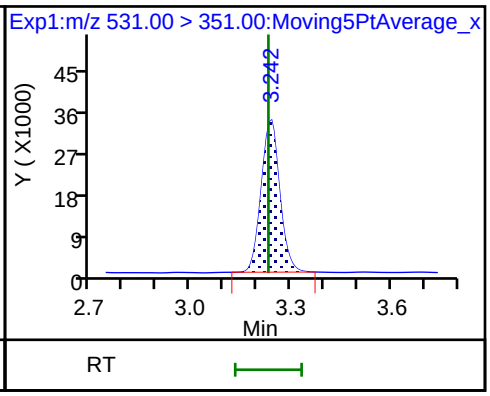
D 19 13C5 PFNA



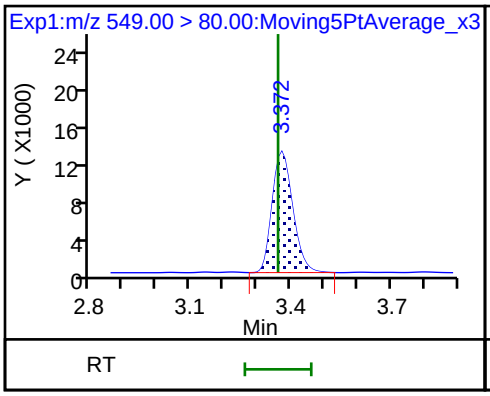
D 18 13C4 PFOS



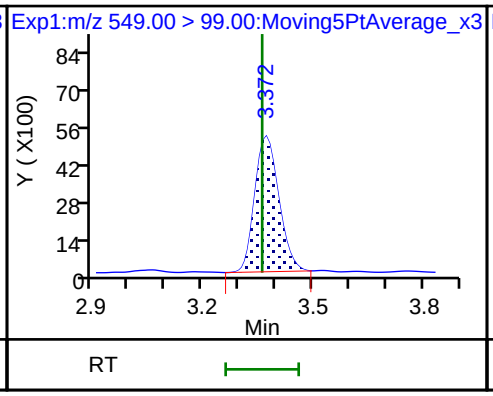
69 9-Chlorohexadecafluoro-3-oxanonane



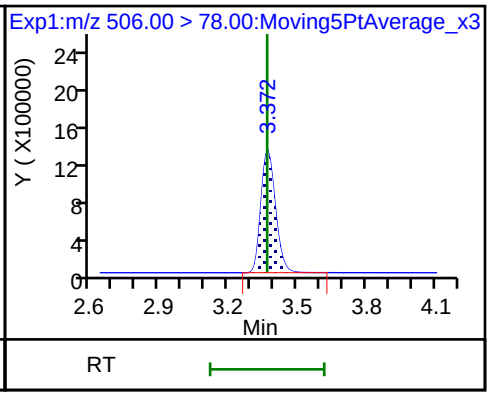
68 Perfluorononanesulfonic acid



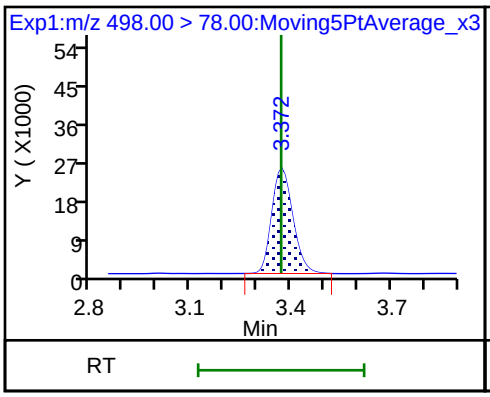
68 Perfluorononanesulfonic acid



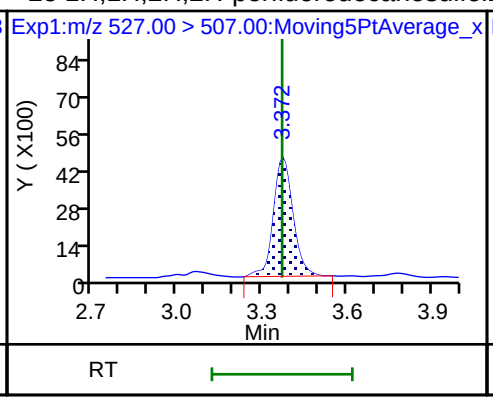
D 21 13C8 FOSA



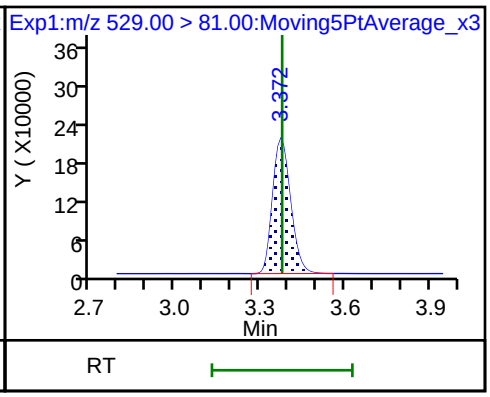
22 Perfluorooctane Sulfonamide



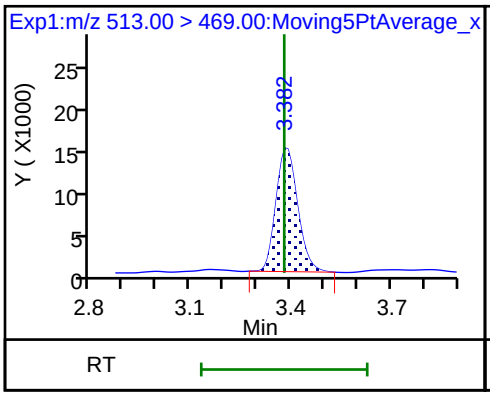
25 1H,1H,2H,2H-perfluorodecanesulfon



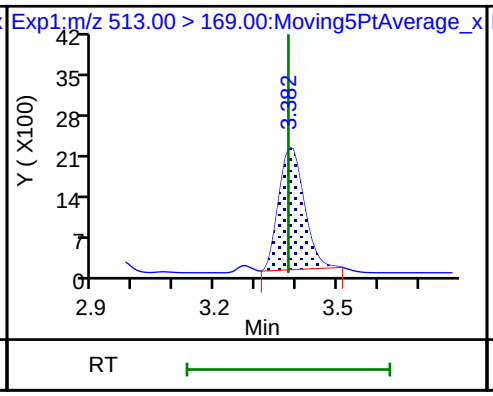
D 26 M2-8:2FTS



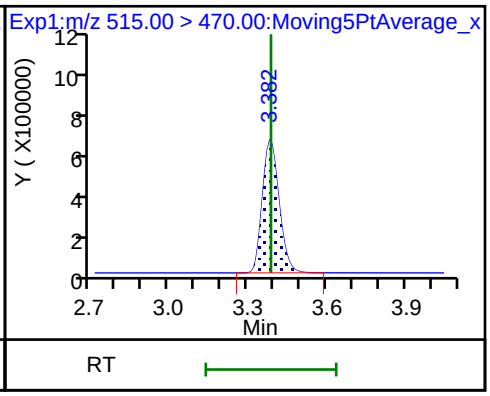
24 Perfluorodecanoic acid



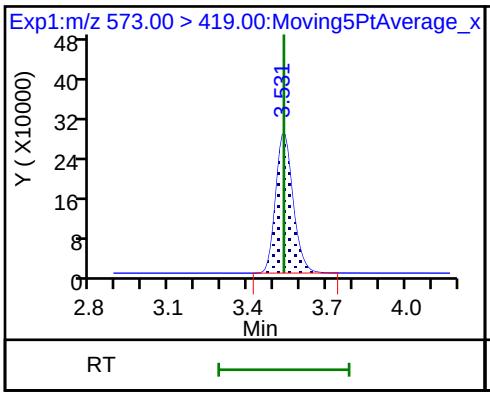
24 Perfluorodecanoic acid



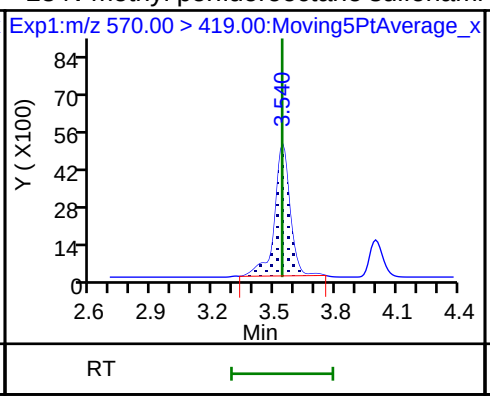
D 23 13C2 PFDA



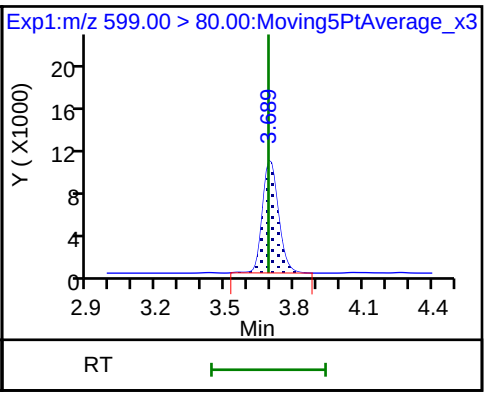
D 27 d3-NMeFOSAA



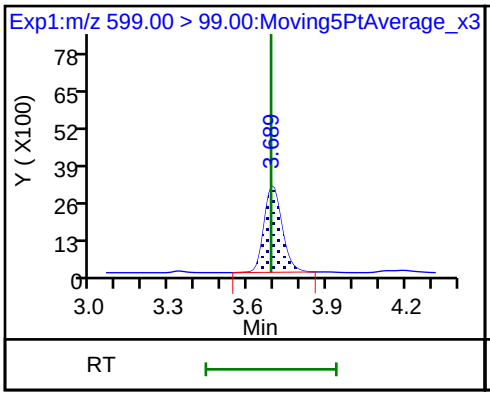
28 N-methyl perfluorooctane sulfonami



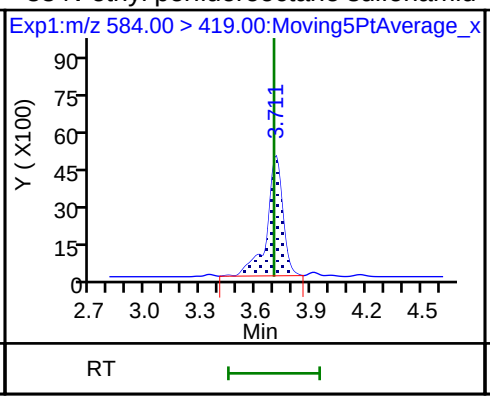
29 Perfluorodecane Sulfonic acid



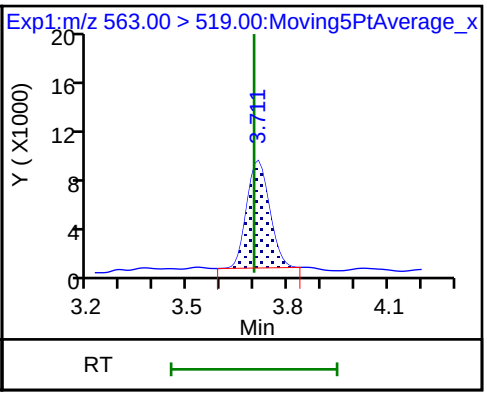
29 Perfluorodecane Sulfonic acid



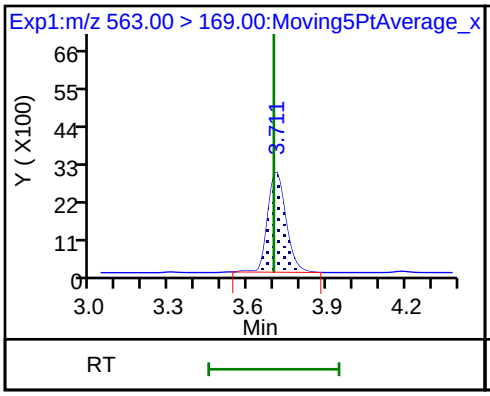
33 N-ethyl perfluorooctane sulfonamid



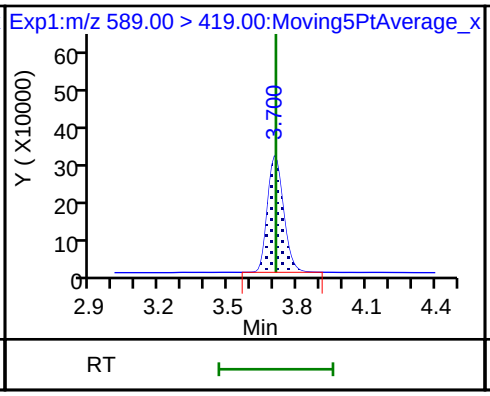
31 Perfluoroundecanoic acid



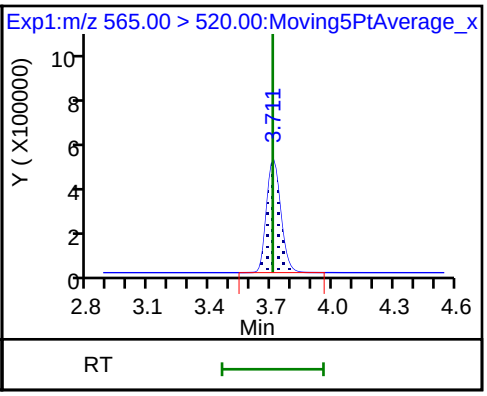
31 Perfluoroundecanoic acid



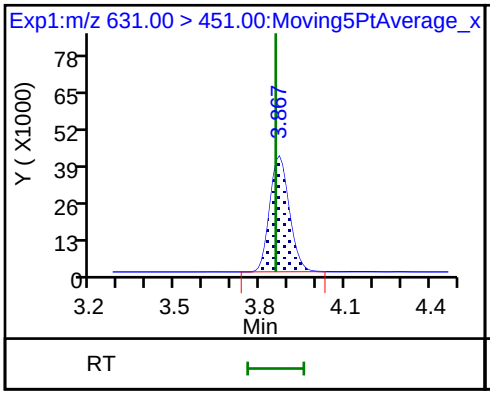
D 32 d5-NEtFOSAA



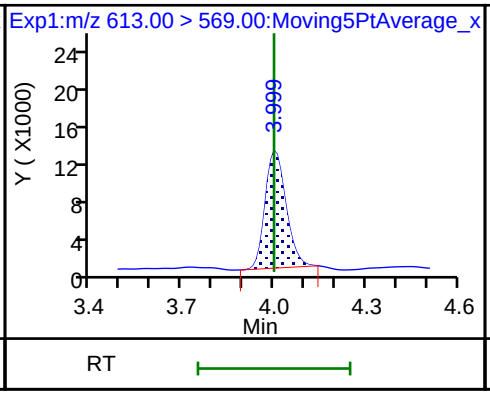
D 30 13C2 PFUnA



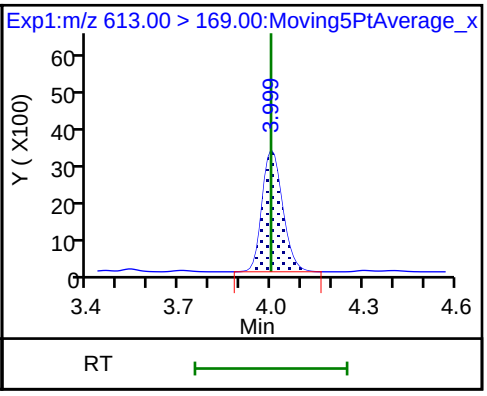
66 11-Chloroeicosafluoro-3-oxaundecan



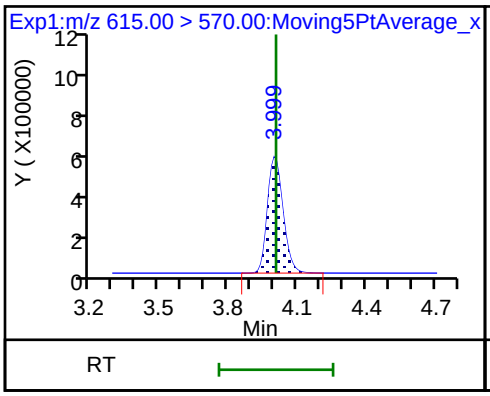
37 Perfluorododecanoic acid



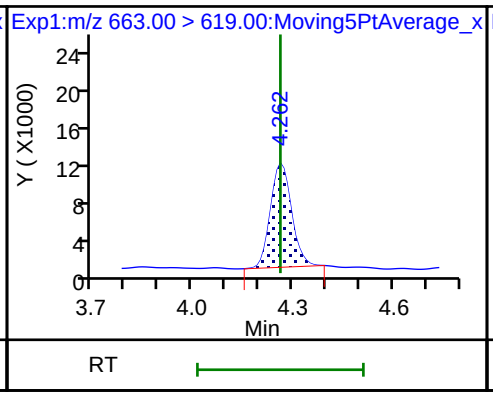
37 Perfluorododecanoic acid



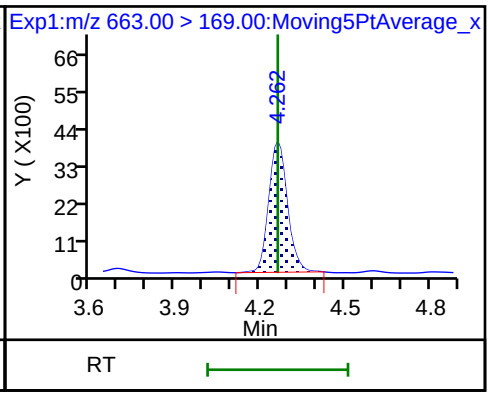
D 36 13C2 PFDoA



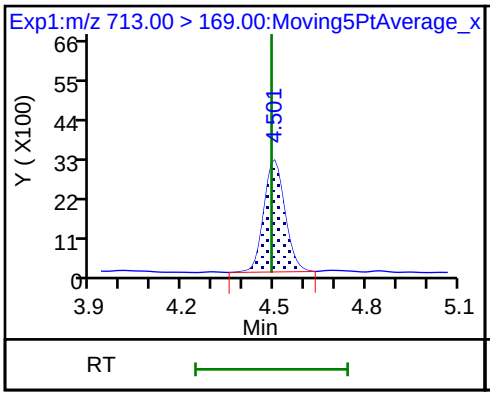
41 Perfluorotridecanoic acid



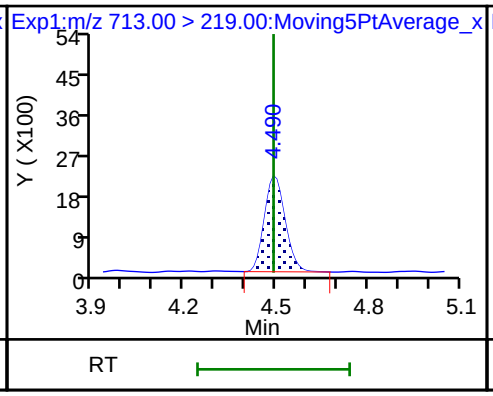
41 Perfluorotridecanoic acid



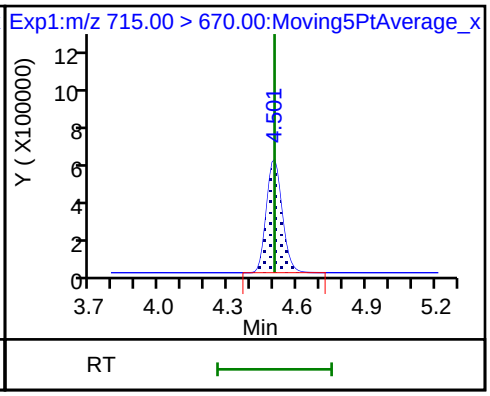
42 Perfluorotetradecanoic acid



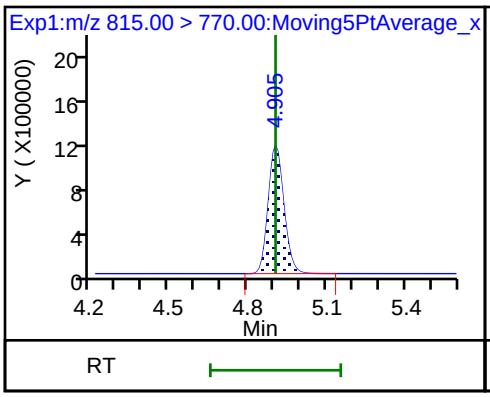
42 Perfluorotetradecanoic acid



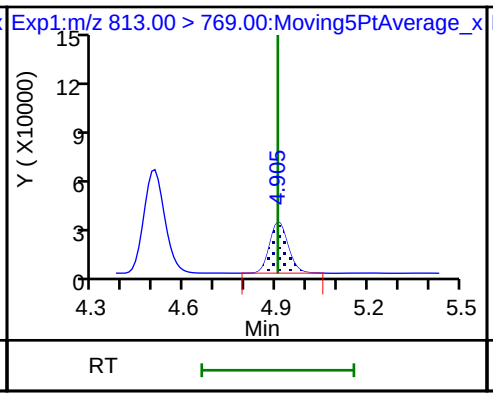
D 43 13C2-PFTeDA



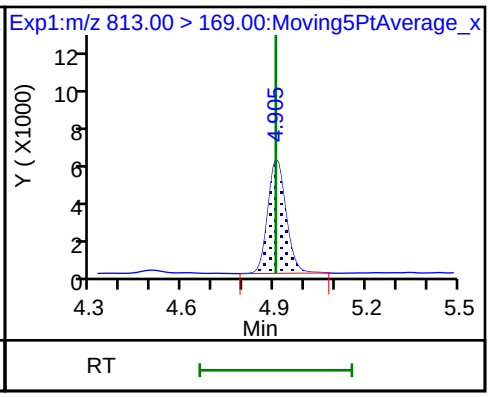
D 44 13C2-PFHxDA



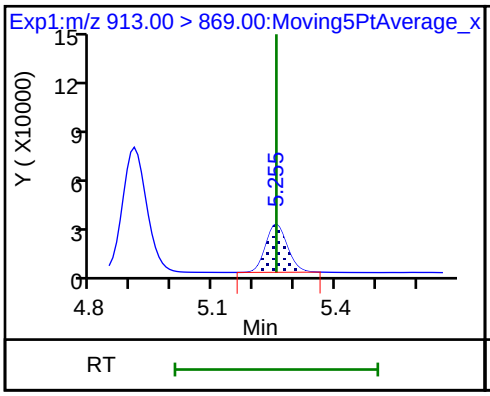
45 Perfluorohexadecanoic acid



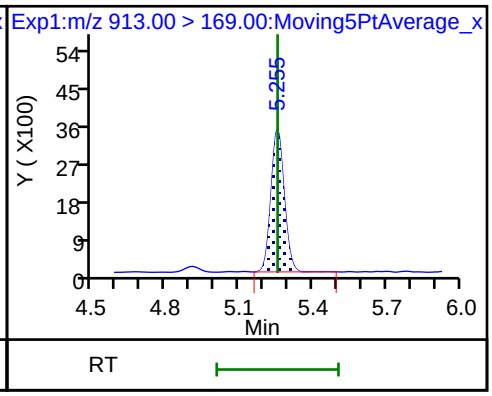
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

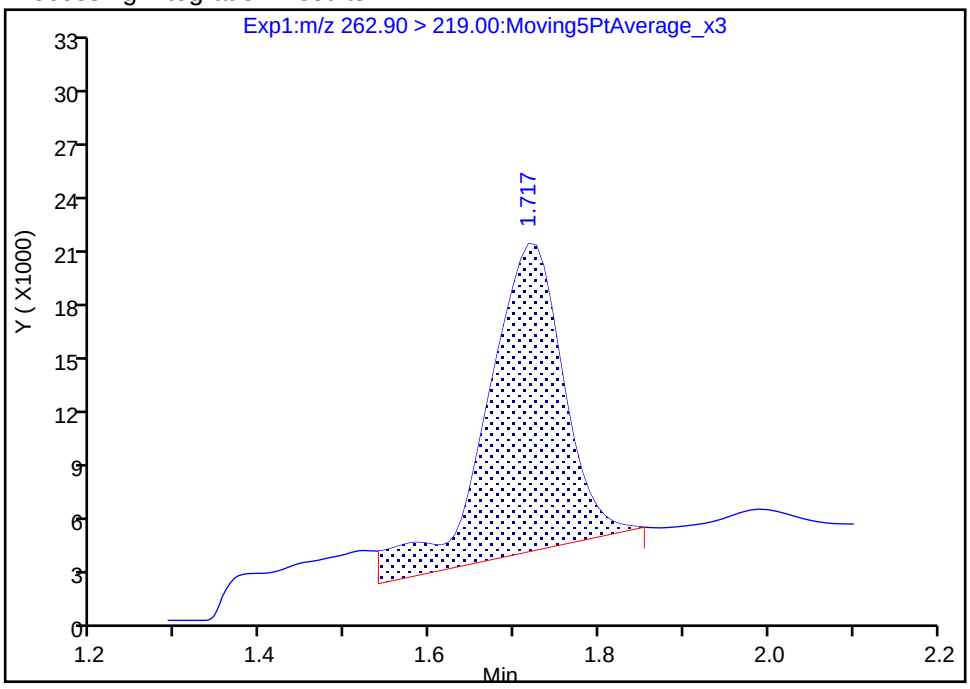
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d
Injection Date: 13-Jul-2018 00:10:05 Instrument ID: A8_N
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

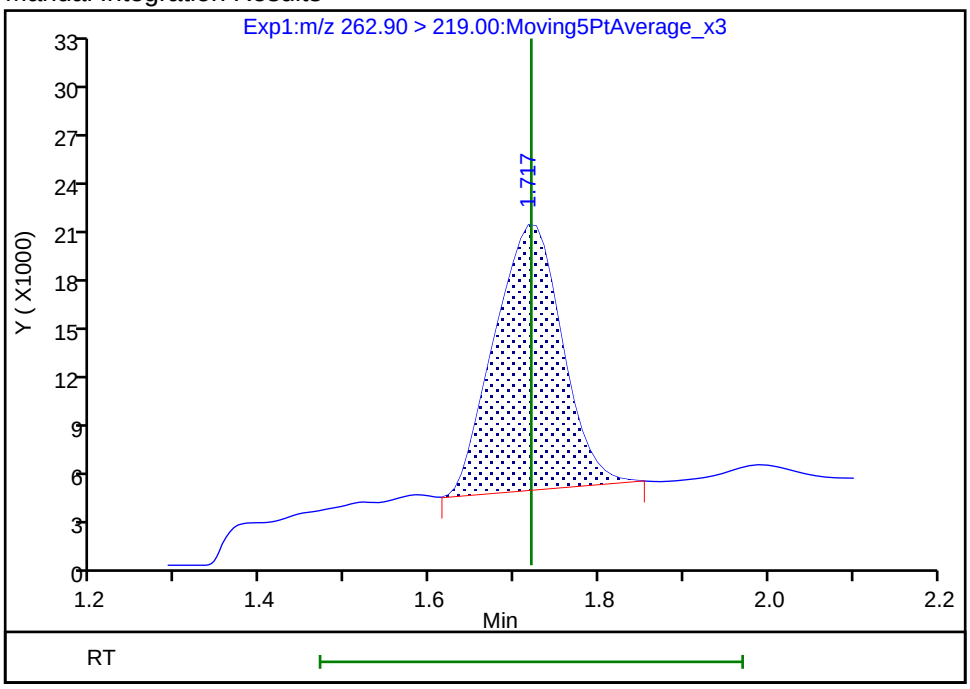
Processing Integration Results

RT: 1.72
Area: 107656
Amount: 0.061674
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 90080
Amount: 0.051605
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:04:40
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/3 Calibration Date: 07/13/2018 00:17

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_035.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	0.9847		0.999	1.00	-0.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.172		0.966	1.00	-3.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	77.20		0.892	0.884	0.9	50.0
4:2 FTS	AveID	13.00	12.17		0.874	0.934	-6.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	0.9894		0.961	1.00	-3.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	69.68		0.937	0.938	-0.1	50.0
HFPO-DA (GenX)	AveID	2.654	2.743		1.03	1.00	3.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.116		0.965	1.00	-3.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.108		0.878	0.910	-3.5	40.0
ADONA	AveID	3.219	3.677		1.08	0.942	14.2	50.0
6:2 FTS	AveID	1.564	1.703		1.03	0.948	8.9	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.157		0.941	1.00	-6.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.342		0.970	0.952	1.9	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.053		0.949	1.00	-5.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.125		0.922	0.928	-0.7	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.836	1.892		0.961	0.932	3.1	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7904		0.979	0.960	2.0	50.0
8:2 FTS	AveID	1.290	1.275		0.947	0.958	-1.2	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9937		1.01	1.00	0.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	0.9845		0.938	1.00	-6.2	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	0.997		1.01	1.00	1.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6915		0.993	0.964	3.0	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9016		1.02	1.00	2.0	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7538		0.920	1.00	-8.0	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.654	2.842		1.01	0.942	7.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.105		1.01	1.00	1.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.031		0.965	1.00	-3.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2519		0.968	1.00	-3.2	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9737		1.00	1.00	0.3	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/3 Calibration Date: 07/13/2018 00:17

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_035.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.135		0.993	1.00	-0.7	50.0
13C4 PFBA	Ave	1.356	1.356		2.50	2.50	0.0	50.0
13C5 PFPeA	Ave	0.9425	0.9601		2.55	2.50	1.9	50.0
13C3-PFBS	Ave	0.0237	0.0244		2.39	2.33	3.0	50.0
M2-4:2FTS	Ave	0.1273	0.1233		2.26	2.34	-3.1	50.0
13C2 PFHxA	Ave	1.017	1.124		2.76	2.50	10.5	50.0
13C3 HFPO-DA	Ave	0.0724	0.0772		2.67	2.50	6.7	50.0
13C4-PFHpA	Ave	0.9371	1.024		2.73	2.50	9.3	50.0
18O2 PFHxS	Ave	1.328	1.366		2.43	2.37	2.9	50.0
M2-6:2FTS	Ave	0.2009	0.1939		2.29	2.38	-3.5	40.0
13C4 PFOA	Ave	0.9560	0.9774		2.56	2.50	2.2	50.0
13C4 PFOS	Ave	0.9742	0.9830		2.41	2.39	0.9	50.0
13C5 PFNA	Ave	0.8546	0.8415		2.46	2.50	-1.5	50.0
13C8 FOSA	Ave	1.405	1.496		2.66	2.50	6.5	50.0
M2-8:2FTS	Ave	0.2939	0.2586		2.11	2.40	-12.0	40.0
13C2 PFDA	Ave	0.7503	0.7690		2.56	2.50	2.5	50.0
d3-NMeFOSAA	Ave	0.3075	0.3409		2.77	2.50	10.9	50.0
13C2 PFUnA	Ave	0.6266	0.6690		2.67	2.50	6.8	50.0
d5-NEtFOSAA	Ave	0.3150	0.3660		2.90	2.50	16.2	50.0
13C2 PFDoA	Ave	0.6496	0.6944		2.67	2.50	6.9	50.0
13C2-PFTeDA	Ave	0.6740	0.7558		2.80	2.50	12.1	50.0
13C2-PFHxDA	Ave	1.074	1.208		2.81	2.50	12.5	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Jul-2018 00:17:55 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:05:35 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:05:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.424	1.424	0.0	1.000	1923012	1.00		99.9	1105	
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.429	-0.005	0.534	4882194	2.50		100	25971	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.719	0.001	0.645	3455682	2.55		102	44432	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.720	0.0	1.000	1620180	0.9662		96.6	720	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.764	-0.008	0.658	81634	2.39		103	563	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.765	1.765	0.0	1.005	2396059	0.8921		101	21349	
298.90 > 99.00	1.756	1.765	-0.009	1.000	998880		2.40(1.25-3.74)		16126	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.970	0.0	1.122	398948	0.8741		93.6	23136	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.980	-0.010	0.738	414563	2.26		96.9	6057	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	2.003	0.0	1.000	1601310	0.9612		96.1	4952	
313.00 > 119.00	2.003	2.003	0.0	1.000	148281		10.80(5.03-15.10)		2912	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	2.014	-0.011	0.751	4046227	2.76		111	70788	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.026	2.026	0.0	1.154	2294846	0.9366		99.9	50099	
349.00 > 99.00	2.026	2.026	0.0	1.154	849799		2.70(1.36-4.07)		21061	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.094	2.094	0.0	1.000	304992	1.03		103	2684	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.094	2.104	-0.010	0.785	277946	2.67		107	6879	
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.319	0.001	0.870	3687191	2.73		109	56097	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.320	2.320	0.0	1.000	1645456	0.9646		96.5	3081	
363.00 > 169.00	2.320	2.320	0.0	1.000	629046		2.62(1.13-3.40)		8019	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.333	2.333	0.0	1.000	1982551	0.8781		96.5	16018	
399.00 > 99.00	2.333	2.333	0.0	1.000	642048		3.09(1.50-4.49)		4887	
D 11 18O2 PFHxS										
403.00 > 84.00	2.333	2.345	-0.012	0.874	4651842	2.43		103	33838	
65 Adona										
377.00 > 251.00	2.359	2.359	0.0	0.780	4901781	1.08		114	49661	
377.00 > 85.00	2.359	2.359	0.0	0.780	2820161		1.74(0.84-2.53)		17970	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.644	0.0	1.003	450731	1.03		109	10646	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.652	-0.016	0.988	663092	2.29		96.5	19352	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.668	0.0		3599316	2.50			32990	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.668	0.0	1.000	1629940	0.9406		94.0	995	
413.00 > 169.00	2.668	2.668	0.0	1.000	856264		1.90(0.84-2.52)		5241	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.674	-0.006	1.000	3517852	2.56		102	38256	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.675	0.0	0.885	1808393	0.9698		102	21800	
449.00 > 99.00	2.675	2.675	0.0	0.885	490624		3.69(1.94-5.82)		11633	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.024	3.024	0.0	1.000	1478011	0.9216		99.3	17489	
499.00 > 99.00	3.024	3.024	0.0	1.000	324566		4.55(2.31-6.93)		4410	
20 Perfluorononanoic acid										
463.00 > 419.00	3.024	3.024	0.0	1.000	1276057	0.9495		94.9	3037	
463.00 > 169.00	3.024	3.024	0.0	1.000	315612		4.04(1.90-5.69)		16613	
D 19 13C5 PFNA										
468.00 > 423.00	3.024	3.030	-0.006	1.134	3028758	2.46		98.5	33229	
D 18 13C4 PFOS										
503.00 > 80.00	3.024	3.030	-0.006	1.134	3382429	2.41		101	23017	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.232	3.232	0.0	1.069	2495654	0.9606		103	22006	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.361	0.0	1.111	1073837	0.9788		102	19082	
549.00 > 99.00	3.361	3.361	0.0	1.111	416644		2.58(1.33-3.97)		6795	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.368	-0.007	1.260	5383105	2.66		106	45206	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.370	0.0	1.003	2139685	1.01		101	30077	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.370	0.0	1.000	454673	0.9468		98.8	10177	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.378	-0.008	1.263	891569	2.11		88.0	14305	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.380	0.0	1.000	1090011	0.9382		93.8	6826	
513.00 > 169.00	3.380	3.380	0.0	1.000	198004		5.50(2.36-7.09)		8912	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.387	-0.007	1.267	2767864	2.56		102	28515	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.536	-0.007	1.323	1227159	2.77		111	24519	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.538	0.0	1.003	489189	1.01		101	3536	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.687	0.0	1.219	943459	0.99		103	16638	
599.00 > 99.00	3.687	3.687	0.0	1.219	321507		2.93(1.39-4.16)		11268	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.698	0.0	1.000	475037	1.02		102	10125	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.698	0.0	1.000	726073	0.9199		92.0	4982	
563.00 > 169.00	3.708	3.698	0.010	1.003	195852		3.71(2.12-6.36)		13372	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.707	-0.009	1.386	1317210	2.90		116	3120	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.707	-0.009	1.386	2408043	2.67		107	29260	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.855	0.0	1.275	3788227	1.01		107	52570	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	3.999	0.0	1.000	1104695	1.01		101	761	
613.00 > 169.00	3.999	3.999	0.0	1.000	270040		4.09(2.13-6.40)		7123	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.499	2499361	2.67		107	20199	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	1030302	0.9652		96.5	520	
663.00 > 169.00	4.252	4.262	-0.010	1.063	341065		3.02(1.25-3.76)		6303	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.491	0.0	1.000	274096	0.9682		96.8	3596	
713.00 > 219.00	4.491	4.491	0.0	1.000	195920		1.40(0.71-2.13)		4602	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.501	-0.010	1.683	2720222	2.80		112	14142	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.839	4348983	2.81		113	12312	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	1693848	1.00		100	420	
813.00 > 169.00	4.905	4.905	0.0	1.000	271636		6.24(2.86-8.58)		2720	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	1974411	0.99		99.3	382	
913.00 > 169.00	5.248	5.255	-0.007	1.070	248628		7.94(3.83-11.48)		3534	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:05:37 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d

Injection Date: 13-Jul-2018 00:17:55 Instrument ID: A8_N

Lims ID: CCV L4

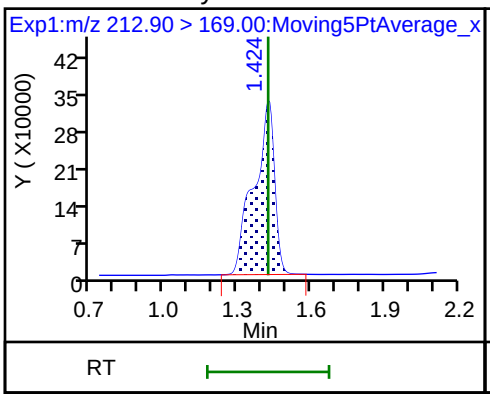
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3

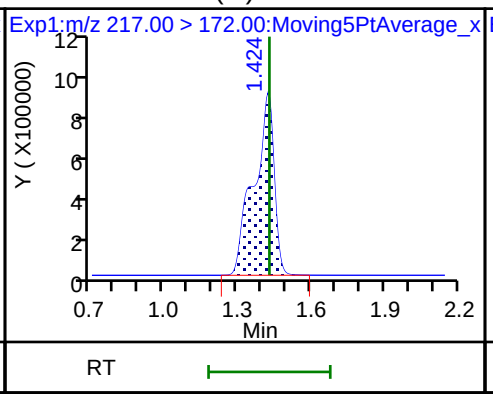
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

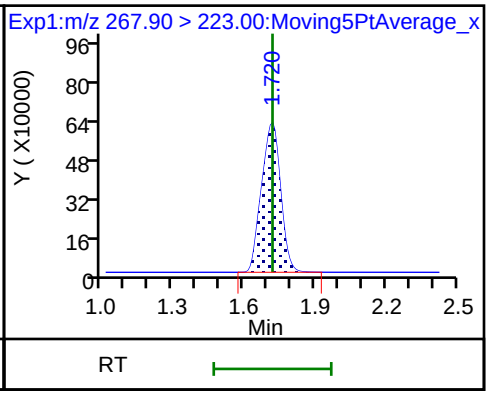
2 Perfluorobutyric acid



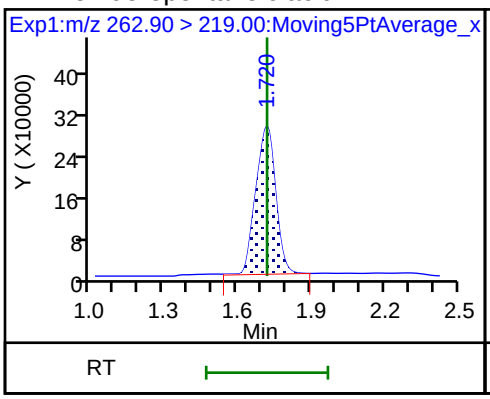
D 1 13C4 PFBA (M)



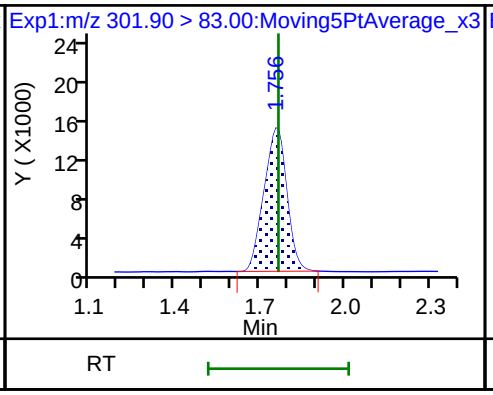
D 3 13C5-PFPeA



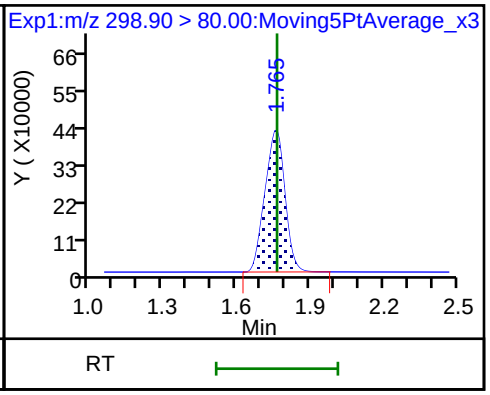
4 Perfluoropentanoic acid



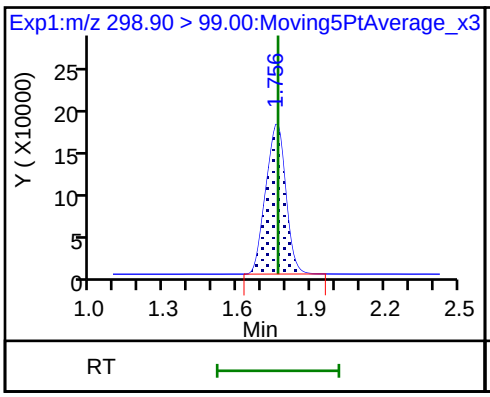
D 47 13C3-PFBS



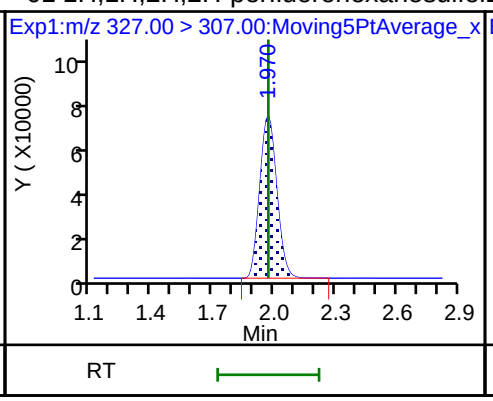
5 Perfluorobutanesulfonic acid



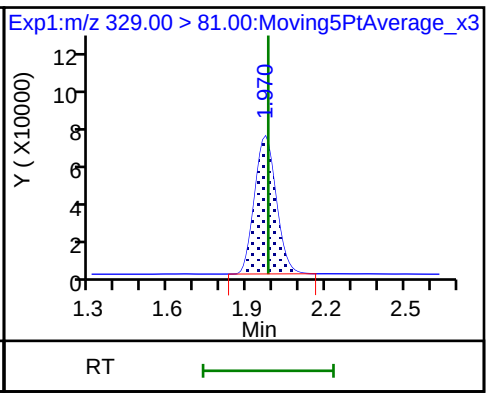
5 Perfluorobutanesulfonic acid



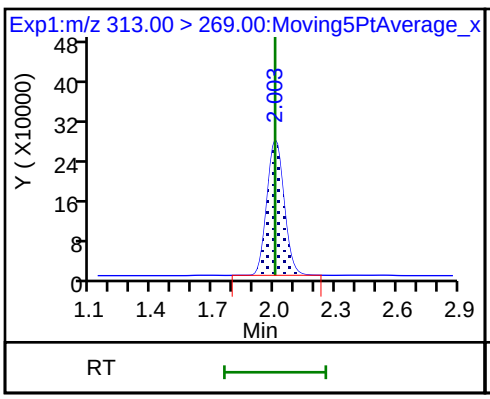
61 1H,1H,2H,2H-perfluorohexanesulfon



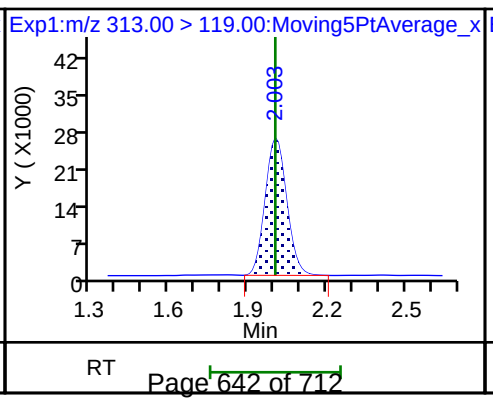
D 60 M2-4:2FTS



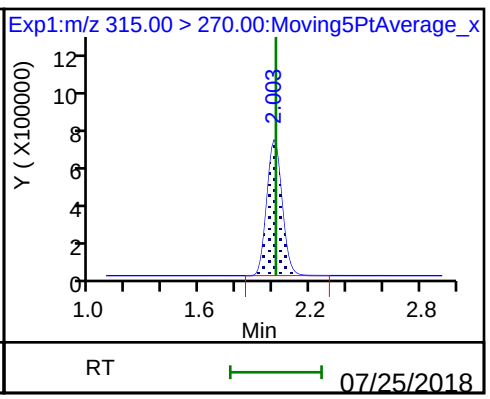
6 Perfluorohexanoic acid



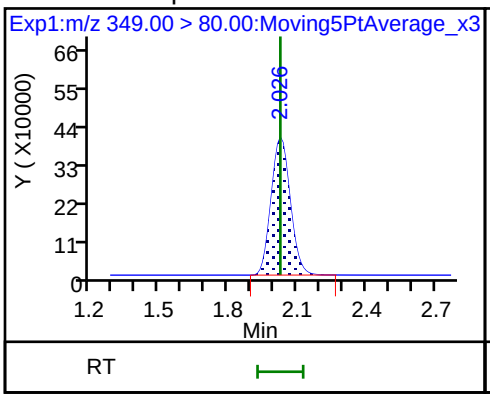
6 Perfluorohexanoic acid



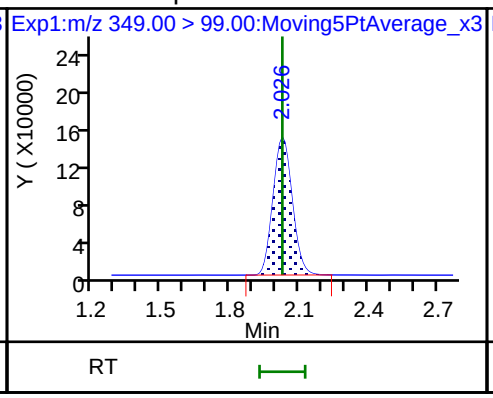
D 7 13C2 PFHxA



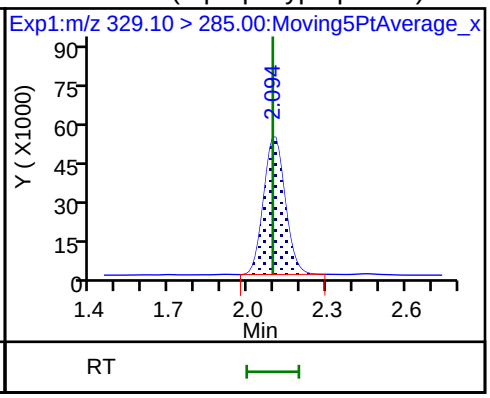
70 Perfluoropentanesulfonic acid



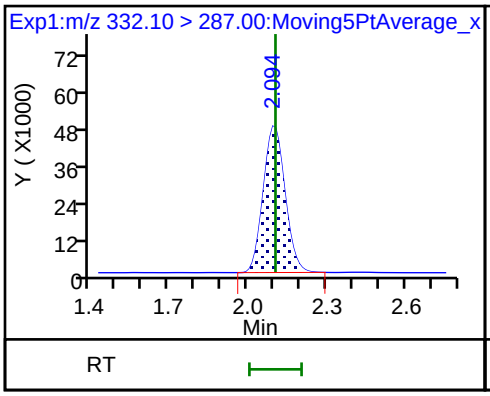
70 Perfluoropentanesulfonic acid



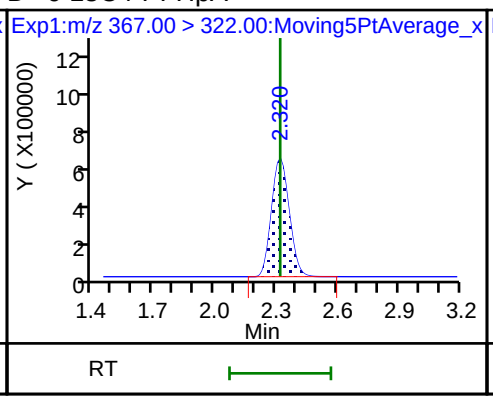
67 Perfluoro(2-propoxypropanoic) acid



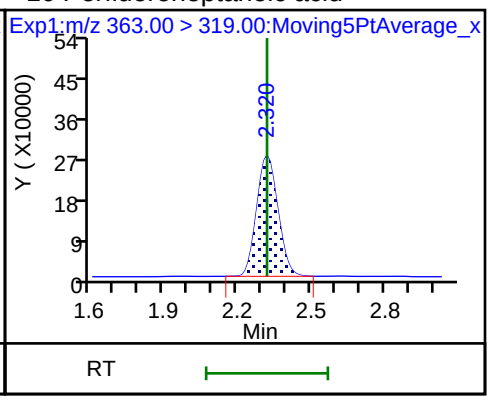
D 64 13C3 HFPO-DA



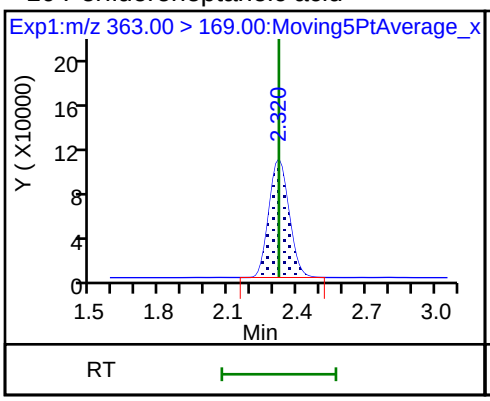
D 9 13C4-PFHpA



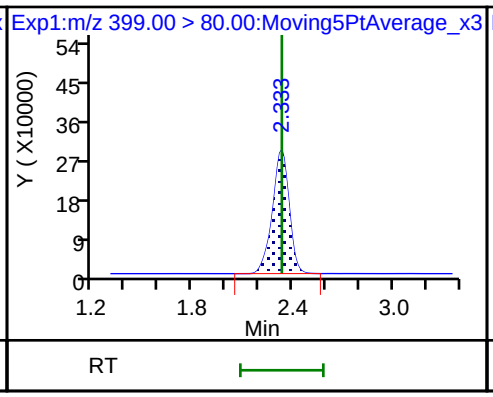
10 Perfluoroheptanoic acid



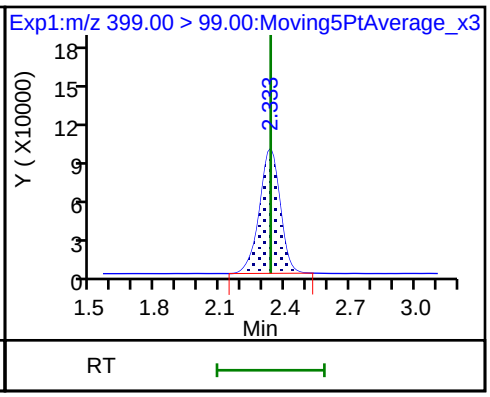
10 Perfluoroheptanoic acid



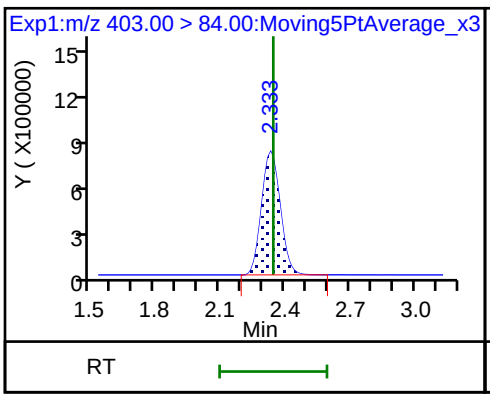
8 Perfluorohexanesulfonic acid



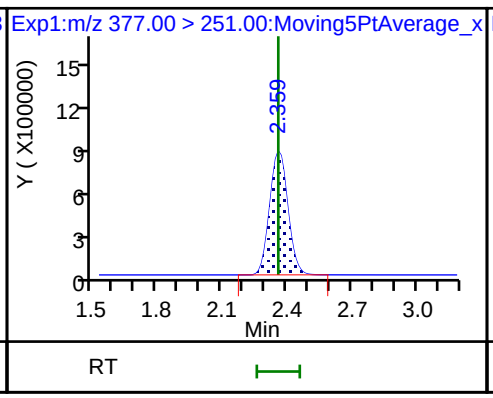
8 Perfluorohexanesulfonic acid



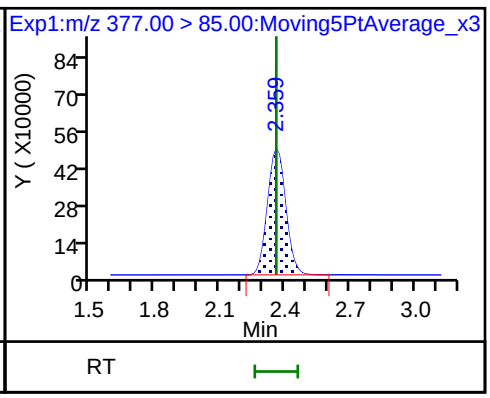
D 11 18O2 PFHxS



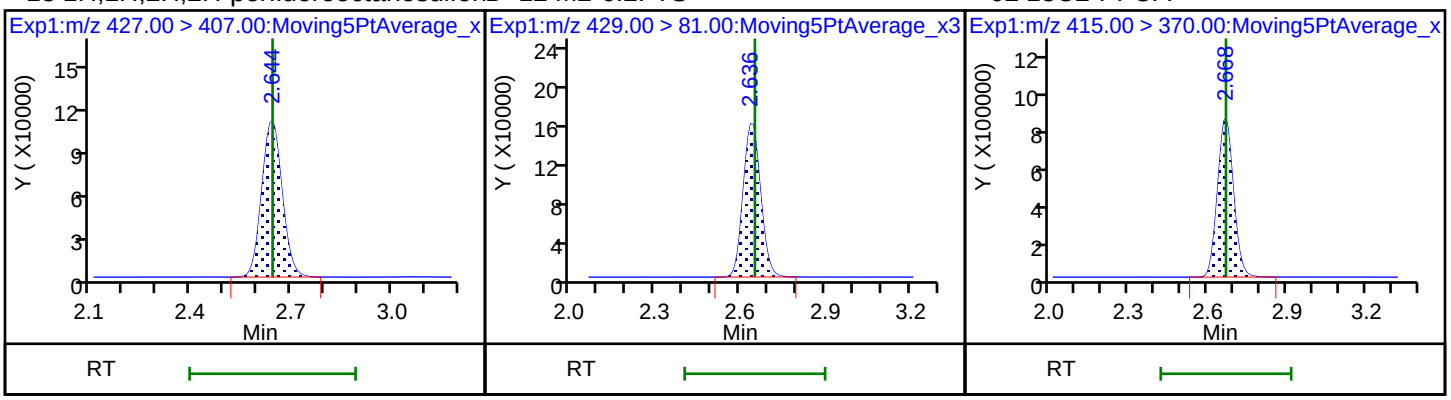
65 Adona



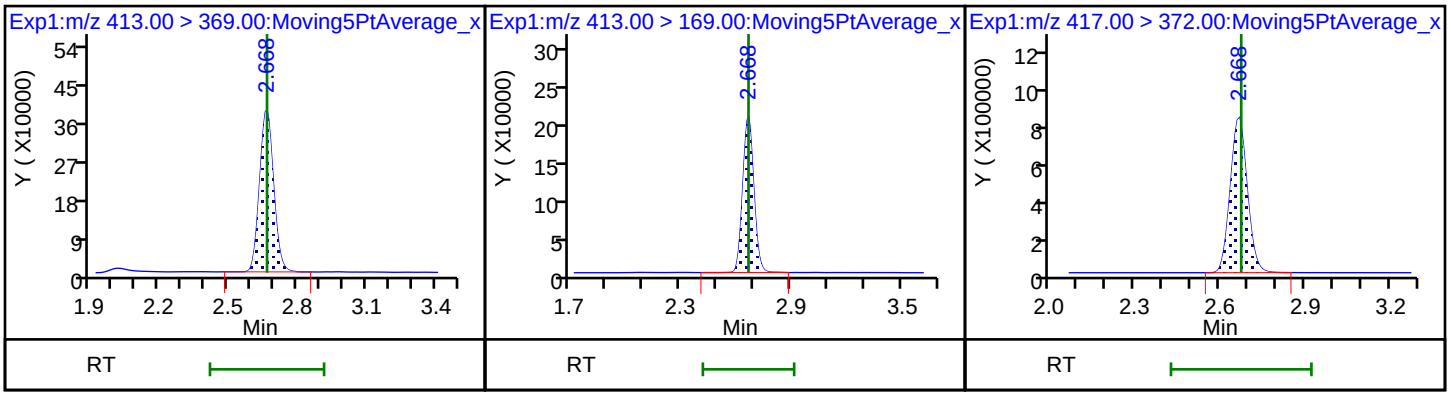
65 Adona



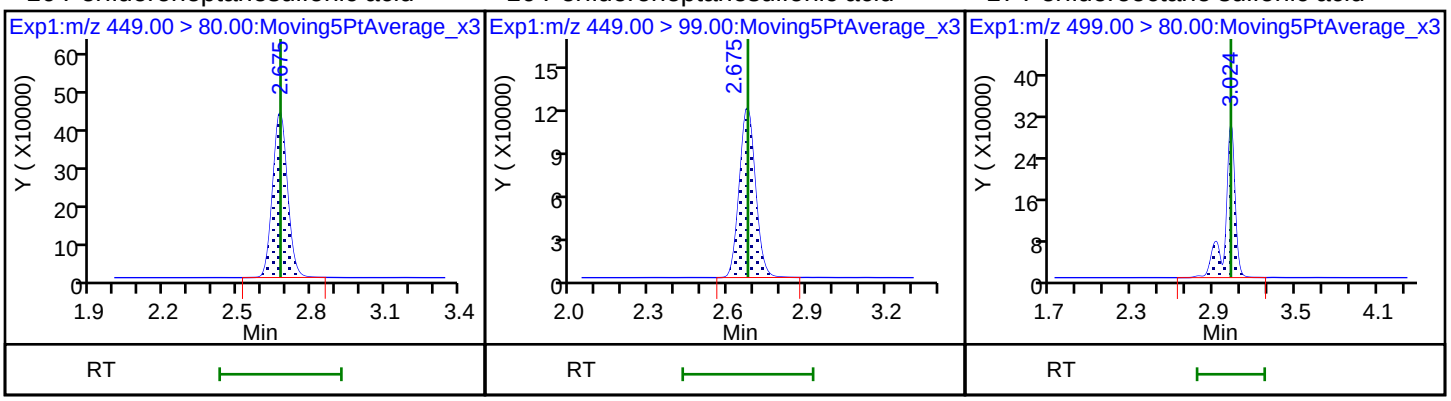
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



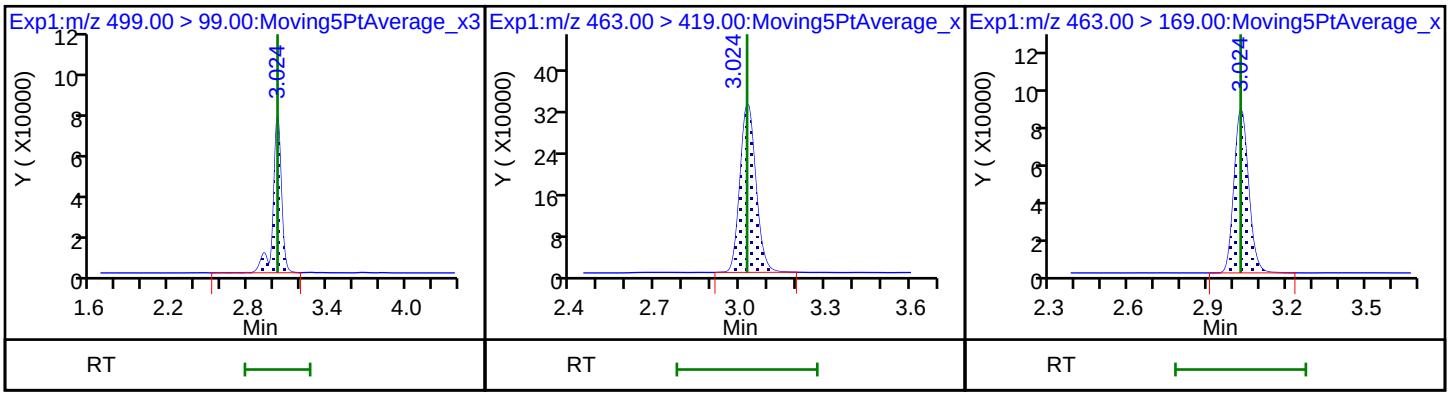
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



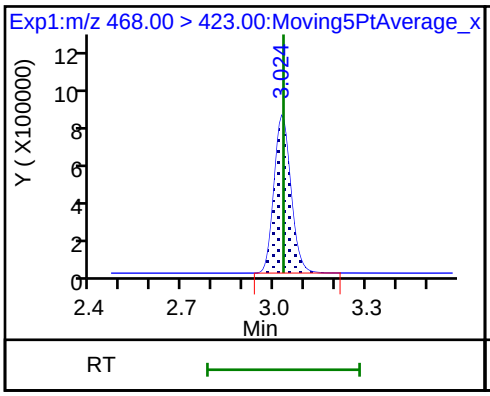
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



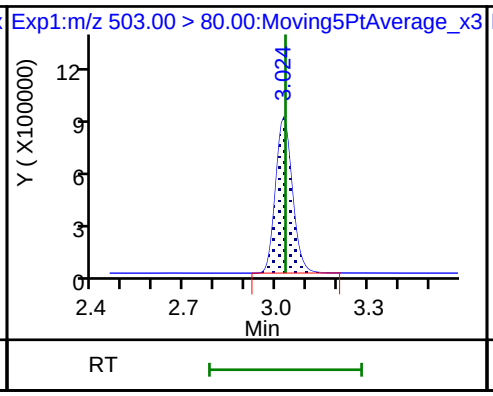
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



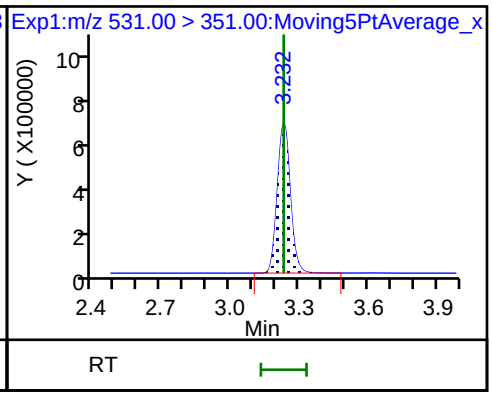
D 19 13C5 PFNA



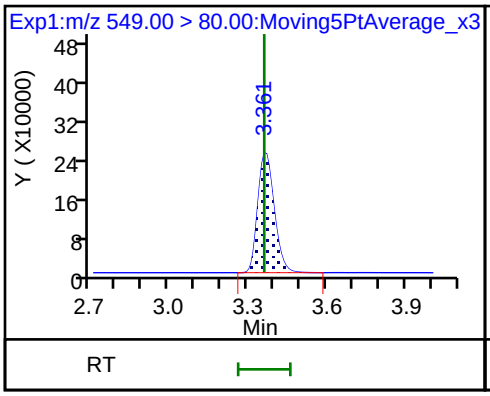
D 18 13C4 PFOS



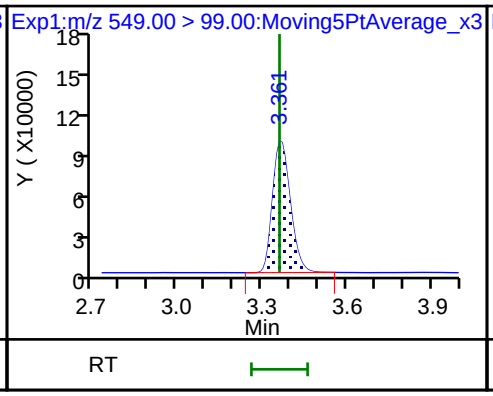
69 9-Chlorohexadecafluoro-3-oxanonane



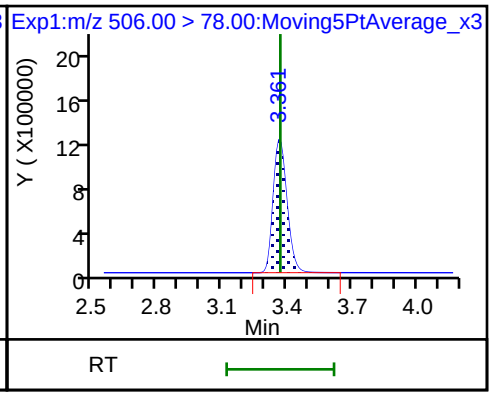
68 Perfluorononanesulfonic acid



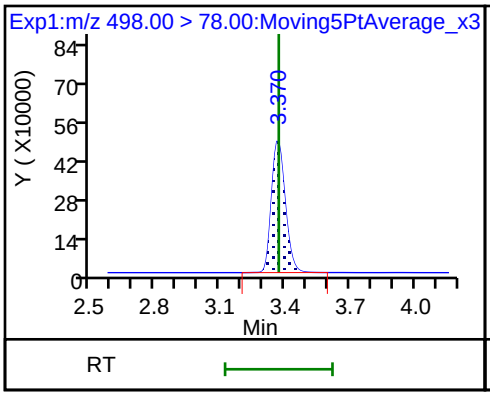
68 Perfluorononanesulfonic acid



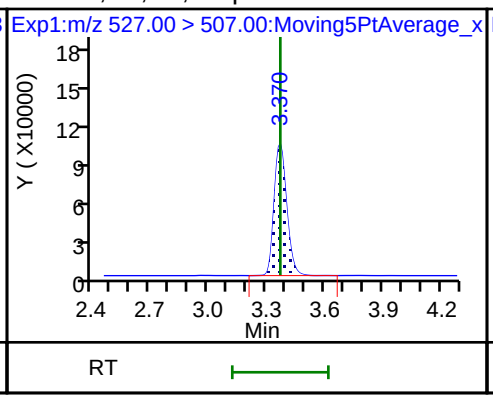
D 21 13C8 FOSA



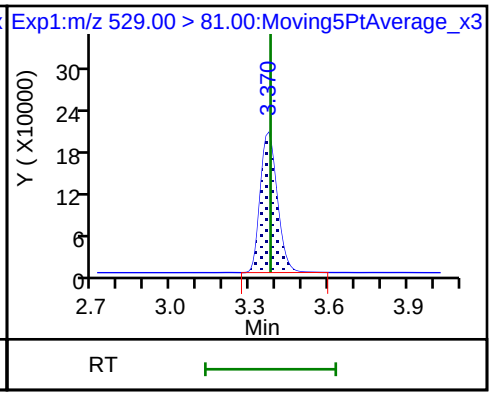
22 Perfluorooctane Sulfonamide



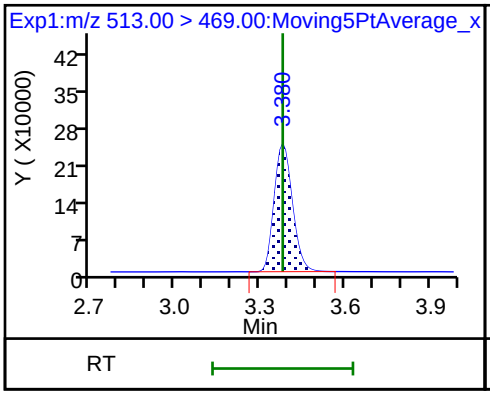
25 1H,1H,2H,2H-perfluorodecanesulfon



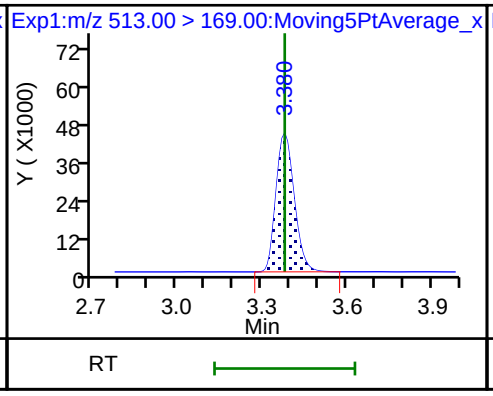
D 26 M2-8:2FTS



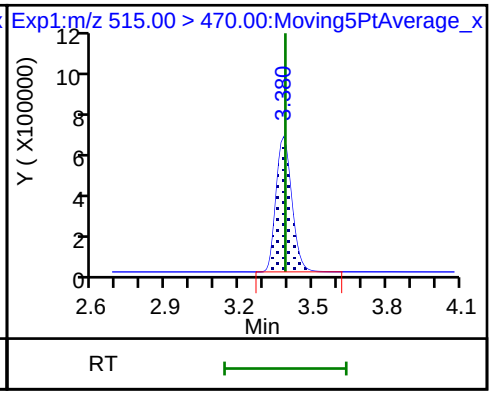
24 Perfluorodecanoic acid



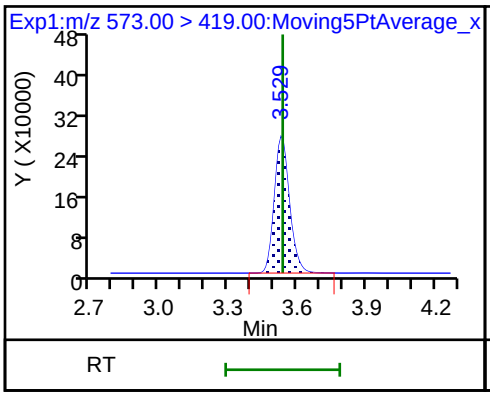
24 Perfluorodecanoic acid



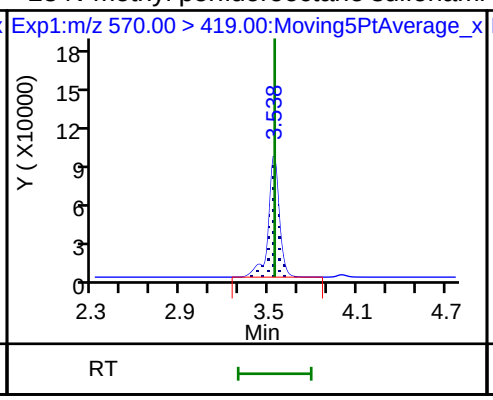
D 23 13C2 PFDA



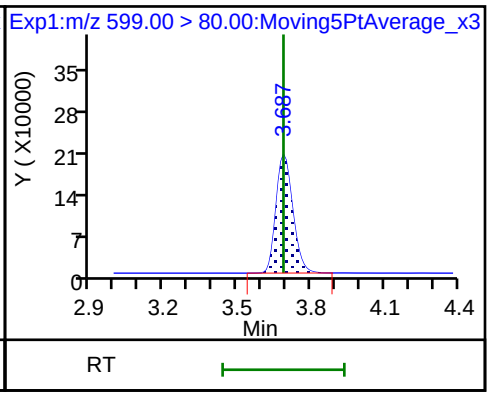
D 27 d3-NMeFOSAA



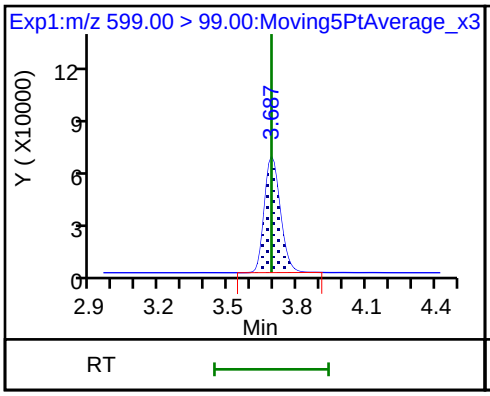
28 N-methyl perfluorooctane sulfonami



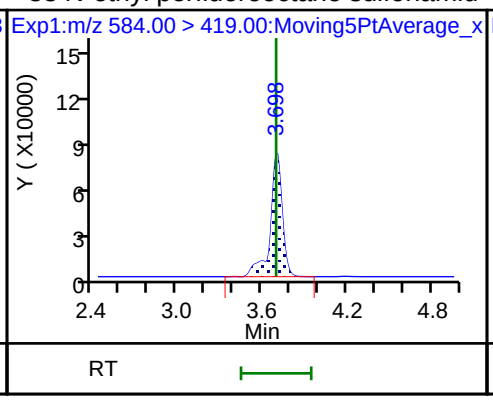
29 Perfluorodecane Sulfonic acid



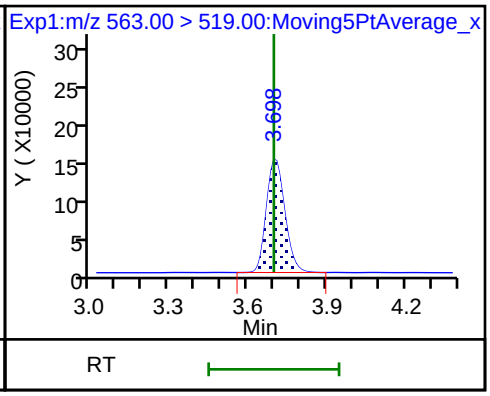
29 Perfluorodecane Sulfonic acid



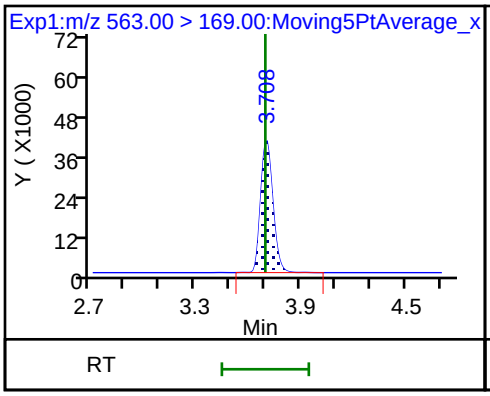
33 N-ethyl perfluorooctane sulfonamid



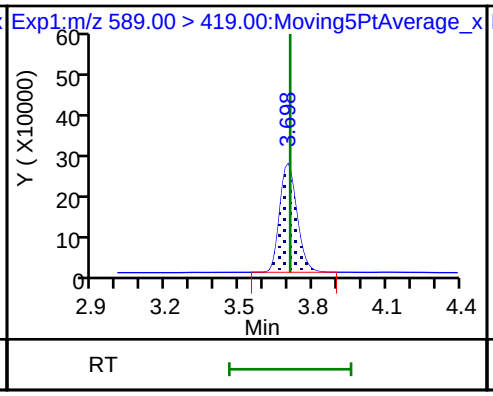
31 Perfluoroundecanoic acid



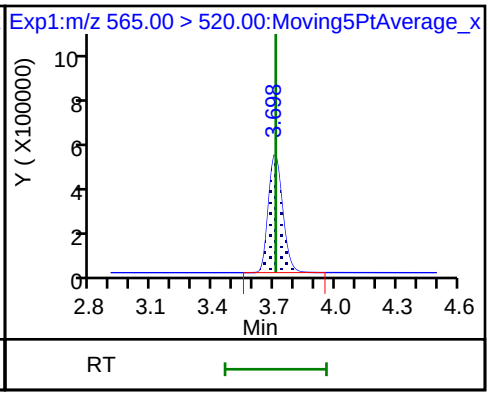
31 Perfluoroundecanoic acid



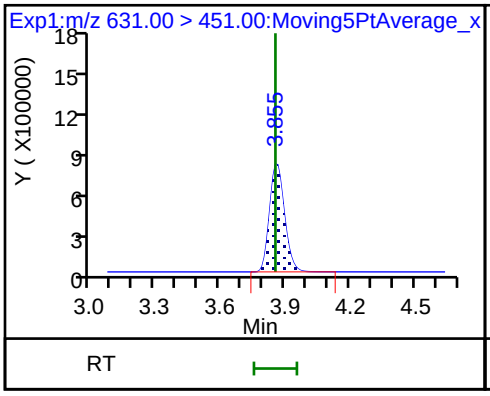
D 32 d5-NEtFOSAA



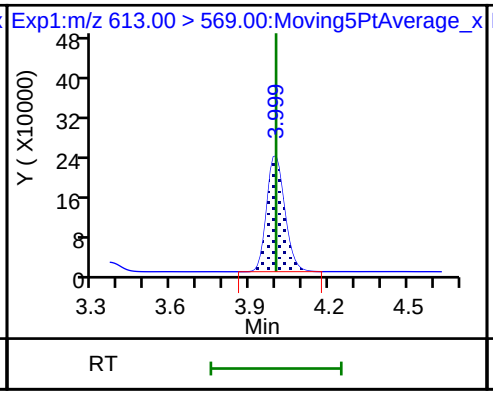
D 30 13C2 PFUnA



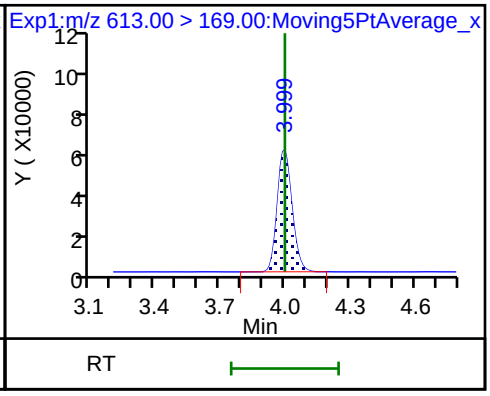
66 11-Chloroeicosafluoro-3-oxaundecan



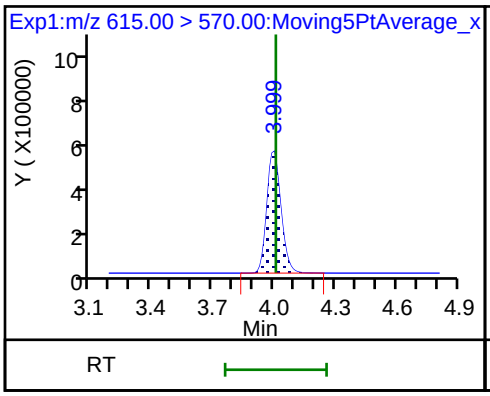
37 Perfluorododecanoic acid



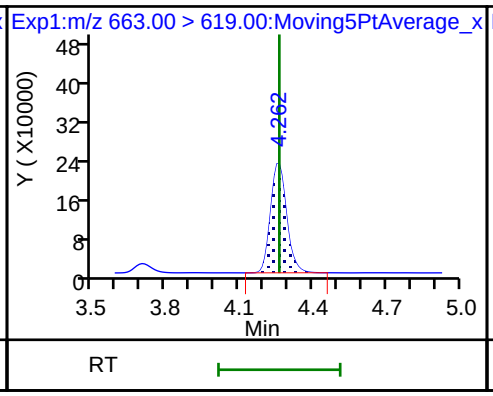
37 Perfluorododecanoic acid



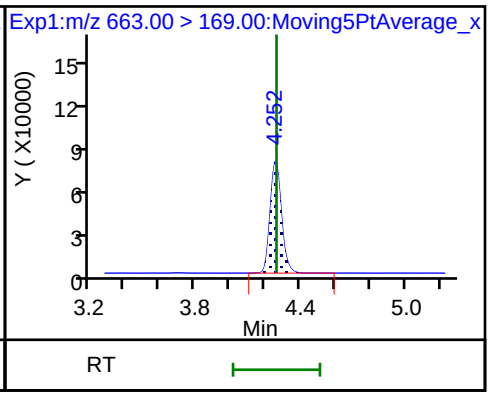
D 36 13C2 PFDoA



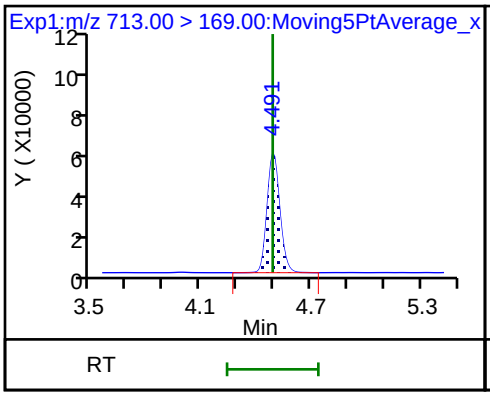
41 Perfluorotridecanoic acid



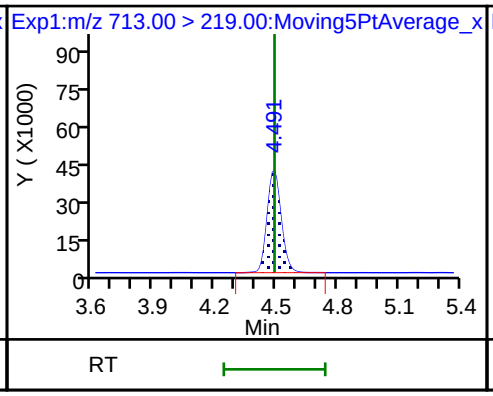
41 Perfluorotridecanoic acid



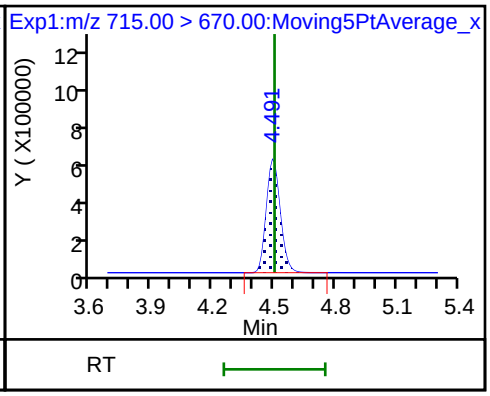
42 Perfluorotetradecanoic acid



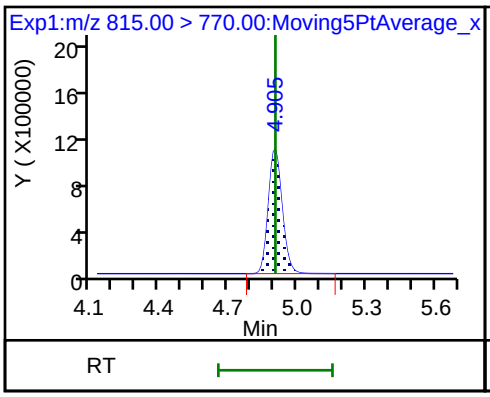
42 Perfluorotetradecanoic acid



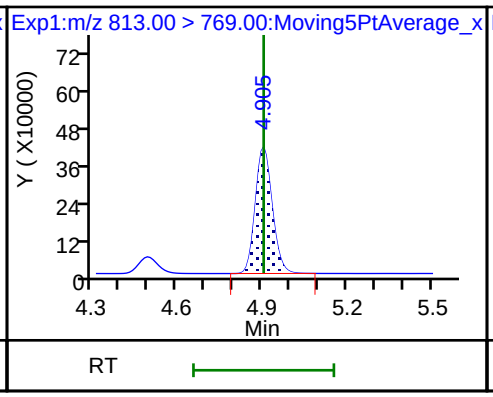
D 43 13C2-PFTeDA



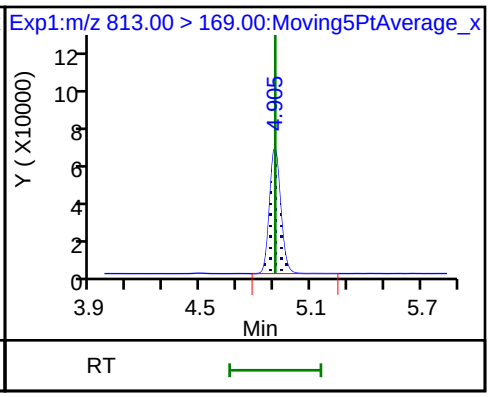
D 44 13C2-PFHxDA



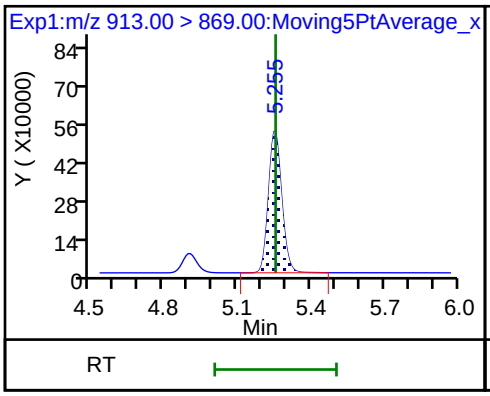
45 Perfluorohexadecanoic acid



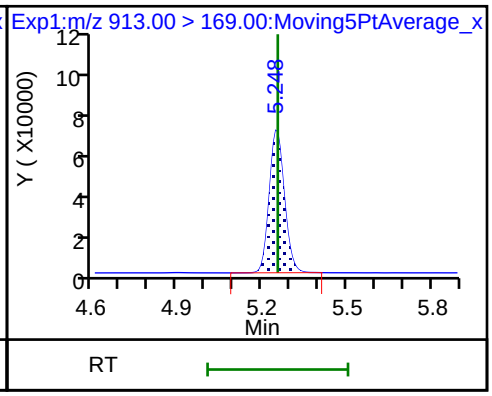
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

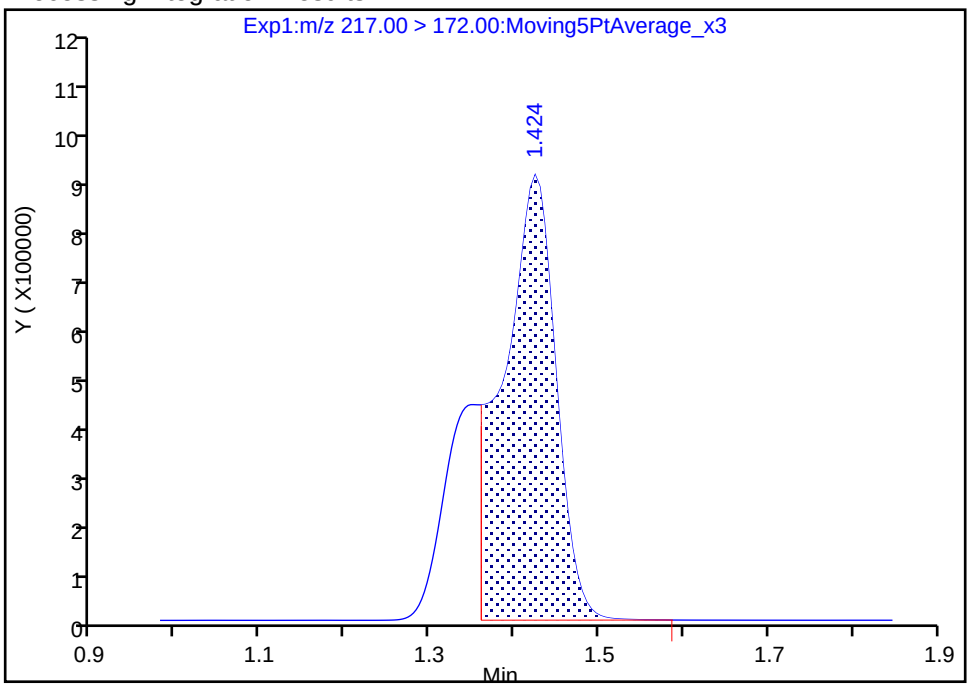
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d
Injection Date: 13-Jul-2018 00:17:55 Instrument ID: A8_N
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

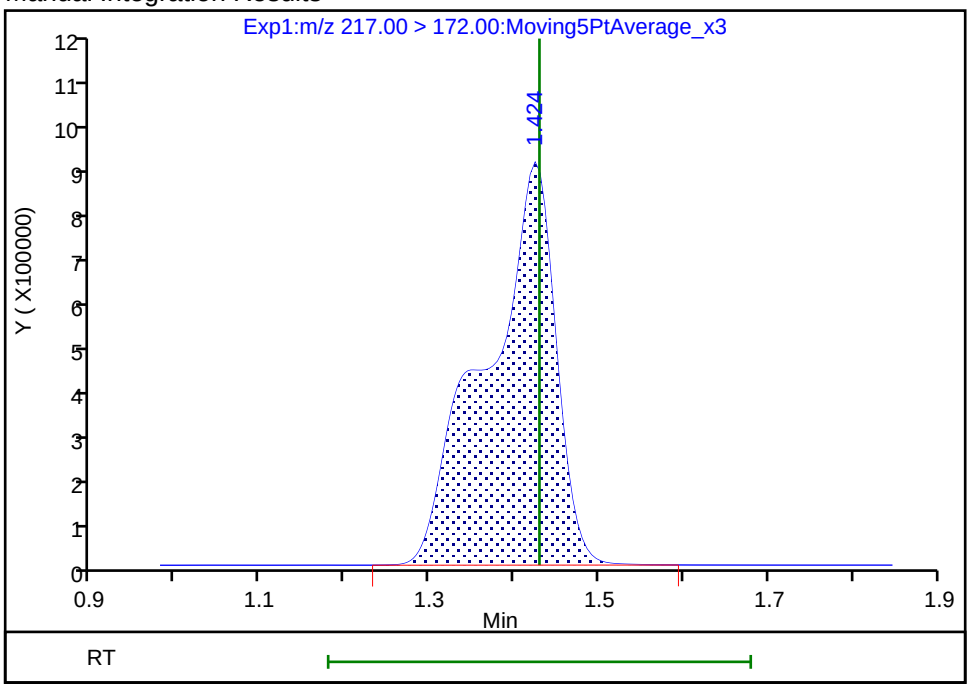
Processing Integration Results

RT: 1.42
Area: 3659143
Amount: 1.874428
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 4882194
Amount: 2.500946
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:05:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/13 Calibration Date: 07/13/2018 01:36

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.003		2.54	2.50	1.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.192		2.46	2.50	-1.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	77.00		2.22	2.21	0.7	50.0
4:2 FTS	AveID	13.00	12.13		2.18	2.34	-6.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.077		2.62	2.50	4.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	70.47		2.37	2.35	1.0	50.0
HFPO-DA (GenX)	AveID	2.654	2.635		2.48	2.50	-0.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.144		2.47	2.50	-1.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.140		2.26	2.28	-0.7	40.0
ADONA	AveID	3.219	3.570		2.61	2.36	10.9	50.0
6:2 FTS	AveID	1.564	1.577		2.39	2.37	0.8	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.169		2.38	2.50	-5.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.384		2.50	2.38	5.1	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.058		2.38	2.50	-4.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.151		2.36	2.32	1.5	40.0
9-Chlorohexadecafluoro-3-oxa nonane-1-sulfonate	AveID	1.836	1.935		2.46	2.33	5.4	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.8094		2.51	2.40	4.4	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	1.042		2.64	2.50	5.8	40.0
8:2 FTS	AveID	1.290	1.401		2.60	2.40	8.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.078		2.57	2.50	2.8	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	1.019		2.58	2.50	3.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.7017		2.52	2.41	4.5	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9100		2.57	2.50	2.9	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7680		2.34	2.50	-6.3	40.0
11-Chloroeicosafluoro-3-oxau ndecane-1-sulfonate	AveID	2.654	2.848		2.53	2.36	7.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.087		2.49	2.50	-0.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.087		2.55	2.50	1.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2628		2.53	2.50	1.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9728		2.54	2.50	1.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/13 Calibration Date: 07/13/2018 01:36

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.054		2.31	2.50	-7.8	50.0
13C4 PFBA	Ave	1.356	1.309		2.41	2.50	-3.5	50.0
13C5 PFPeA	Ave	0.9425	0.9401		2.49	2.50	-0.3	50.0
13C3-PFBS	Ave	0.0237	0.0241		2.36	2.33	1.7	50.0
M2-4:2FTS	Ave	0.1273	0.1268		2.33	2.34	-0.4	50.0
13C2 PFHxA	Ave	1.017	1.035		2.54	2.50	1.8	50.0
13C3 HFPO-DA	Ave	0.0724	0.0809		2.79	2.50	11.8	50.0
13C4-PFHpA	Ave	0.9371	0.9465		2.53	2.50	1.0	50.0
18O2 PFHxS	Ave	1.328	1.286		2.29	2.37	-3.1	50.0
M2-6:2FTS	Ave	0.2009	0.1933		2.29	2.38	-3.8	40.0
13C4 PFOA	Ave	0.9560	0.9398		2.46	2.50	-1.7	50.0
13C4 PFOS	Ave	0.9742	0.9448		2.32	2.39	-3.0	50.0
13C5 PFNA	Ave	0.8546	0.8322		2.43	2.50	-2.6	50.0
13C8 FOSA	Ave	1.405	1.386		2.47	2.50	-1.3	50.0
M2-8:2FTS	Ave	0.2939	0.2211		1.80	2.40	-24.8	40.0
13C2 PFDA	Ave	0.7503	0.7049		2.35	2.50	-6.1	50.0
d3-NMeFOSAA	Ave	0.3075	0.3218		2.62	2.50	4.7	50.0
13C2 PFUnA	Ave	0.6266	0.6236		2.49	2.50	-0.5	50.0
d5-NEtFOSAA	Ave	0.3150	0.3463		2.75	2.50	9.9	50.0
13C2 PFDoA	Ave	0.6496	0.6683		2.57	2.50	2.9	50.0
13C2-PFTeDA	Ave	0.6740	0.6919		2.57	2.50	2.6	50.0
13C2-PFHxDA	Ave	1.074	1.128		2.63	2.50	5.0	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_045.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Jul-2018 01:36:00 ALS Bottle#: 29 Worklist Smp#: 13
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:18:30 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:18:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.434	1.424	0.010	1.000	3737198	2.54		102	2572	
D 1 13C4 PFBA										
217.00 > 172.00	1.434	1.429	0.005	0.536	3726650	2.41		96.5	23142	
D 3 13C5-PFPeA										
267.90 > 223.00	1.726	1.719	0.007	0.646	2676598	2.49		99.7	39363	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.726	1.720	0.006	1.000	3190606	2.46		98.3	1422	
D 47 13C3-PFBS										
301.90 > 83.00	1.771	1.764	0.007	0.662	63778	2.36		102	504	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.771	1.765	0.006	1.000	4667993	2.22		101	45605	
298.90 > 99.00	1.771	1.765	0.006	1.000	1889861		2.47(1.25-3.74)		32775	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.978	1.970	0.008	1.117	776782	2.18		93.3	44119	
D 60 M2-4:2FTS										
329.00 > 81.00	1.978	1.980	-0.002	0.740	337070	2.33		99.6	5694	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.003	0.008	1.000	3174703	2.62		105	9064	
313.00 > 119.00	2.011	2.003	0.008	1.000	292852		10.84(5.03-15.10)		5452	
D 7 13C2 PFHxA										
315.00 > 270.00	2.011	2.014	-0.003	0.752	2947436	2.54		102	54525	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.034	2.026	0.008	1.148	4532897	2.37		101	53542	
349.00 > 99.00	2.034	2.026	0.008	1.148	1602977		2.83(1.36-4.07)		32650	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.113	2.094	0.019	1.005	606863	2.48		99.3	6397	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.104	-0.003	0.786	230345	2.79		112	4278	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.319	0.010	0.871	2694805	2.53		101	32963	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.320	0.009	1.000	3083525	2.47		98.9	6232	
363.00 > 169.00	2.329	2.320	0.009	1.000	1187591		2.60(1.13-3.40)		9444	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.342	2.333	0.009	1.000	3796968	2.26		99.3	15502	
399.00 > 99.00	2.342	2.333	0.009	1.000	1245537		3.05(1.50-4.49)		7536	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.345	-0.003	0.876	3463591	2.29		96.9	30902	
65 Adona										
377.00 > 251.00	2.369	2.359	0.010	0.781	9045114	2.61		111	75231	
377.00 > 85.00	2.369	2.359	0.010	0.781	5605472		1.61(0.84-2.53)		27289	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.644	0.007	1.000	823084	2.39		101	16676	
D 12 M2-6:2FTS										
429.00 > 81.00	2.651	2.652	-0.001	0.992	522900	2.29		96.2	14356	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.668	0.005		2847127	2.50			32073	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.668	0.005	1.000	3131012	2.38		94.9	1812	
413.00 > 169.00	2.673	2.668	0.005	1.000	1641442		1.91(0.84-2.52)		8870	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.674	-0.001	1.000	2675587	2.46		98.3	30210	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.681	2.675	0.006	0.884	3545104	2.50		105	22280	
449.00 > 99.00	2.681	2.675	0.006	0.884	906703		3.91(1.94-5.82)		20381	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.024	0.008	1.000	2872490	2.36		102	24973	
499.00 > 99.00	3.032	3.024	0.008	1.000	648176		4.43(2.31-6.93)		10861	
20 Perfluorononanoic acid										
463.00 > 419.00	3.032	3.024	0.008	1.000	2505612	2.38		95.3	5291	
463.00 > 169.00	3.032	3.024	0.008	1.000	580879		4.31(1.90-5.69)		23887	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.030	0.002	1.134	2369303	2.43		97.4	30863	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.030	0.002	1.134	2571627	2.32		97.0	20601	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.240	3.232	0.008	1.069	4852286	2.46		105	35772	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.361	0.009	1.111	2090094	2.51		104	38625	
549.00 > 99.00	3.370	3.361	0.009	1.111	795592		2.63(1.33-3.97)		13707	
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.368	0.002	1.260	3946832	2.47		98.7	28750	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.370	0.0	1.000	4113783	2.64		106	30981	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.370	0.009	1.000	844980	2.60		109	9164	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.378	0.001	1.264	602931	1.80		75.2	12970	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.389	3.380	0.008	1.000	2164456	2.57		103	18181	
513.00 > 169.00	3.389	3.380	0.008	1.000	373048		5.80(2.36-7.09)		10264	
D 23 13C2 PFDA										
515.00 > 470.00	3.389	3.387	0.001	1.267	2006984	2.35		93.9	20117	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.538	3.536	0.002	1.323	916326	2.62		105	16673	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.538	0.0	1.000	933911	2.58		103	11078	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.687	0.010	1.219	1819604	2.52		105	31442	
599.00 > 99.00	3.697	3.687	0.010	1.219	630694		2.89(1.39-4.16)		16267	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.698	0.010	1.000	897220	2.57		103	21596	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.698	0.010	1.000	1363525	2.34		93.7	6994	
563.00 > 169.00	3.708	3.698	0.010	1.000	357776		3.81(2.12-6.36)		12207	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.707	0.001	1.387	985952	2.75		110	2826	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.707	0.001	1.387	1775480	2.49		99.5	36221	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.855	0.011	1.275	7217393	2.53		107	83603	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.009	3.999	0.010	1.003	2068693	2.49		99.6	1716	
613.00 > 169.00	4.009	3.999	0.010	1.003	516056		4.01(2.13-6.40)		10773	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.496	1902611	2.57		103	18048	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	2068500	2.55		102	1194	
663.00 > 169.00	4.262	4.262	0.0	1.066	636446		3.25(1.25-3.76)		12740	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.491	0.010	1.000	517732	2.53		101	7332	
713.00 > 219.00	4.491	4.491	0.0	0.998	368532		1.40(0.71-2.13)		5470	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.501	0.0	1.684	1969798	2.57		103	12254	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.835	3210578	2.63		105	11975	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	3123392	2.54		102	872	
813.00 > 169.00	4.905	4.905	0.0	1.000	527202		5.92(2.86-8.58)		4250	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	3383166	2.31		92.2	859	
913.00 > 169.00	5.255	5.255	0.0	1.071	413704		8.18(3.83-11.48)		4614	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:18:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_045.d

Injection Date: 13-Jul-2018 01:36:00 Instrument ID: A8_N

Lims ID: CCV L5

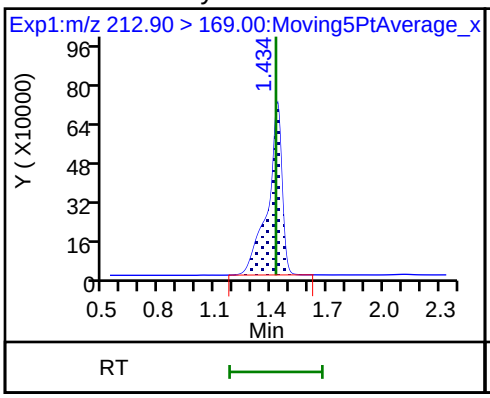
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 13

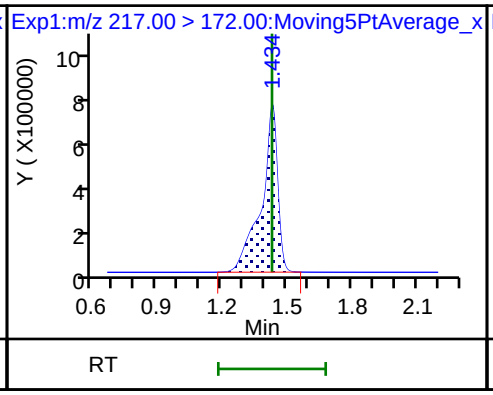
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

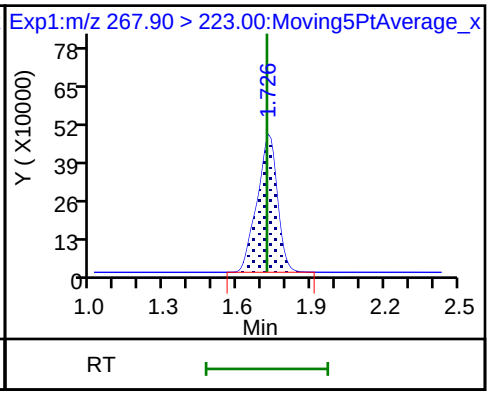
2 Perfluorobutyric acid



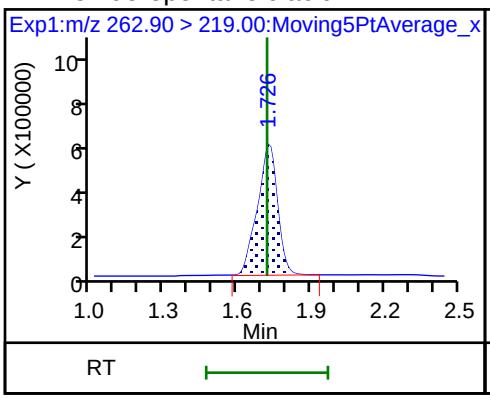
D 1 13C4 PFBA



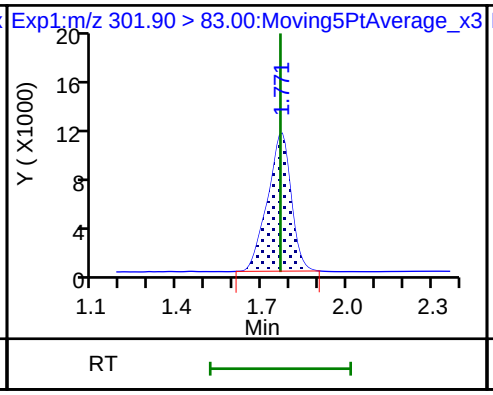
D 3 13C5-PFPeA



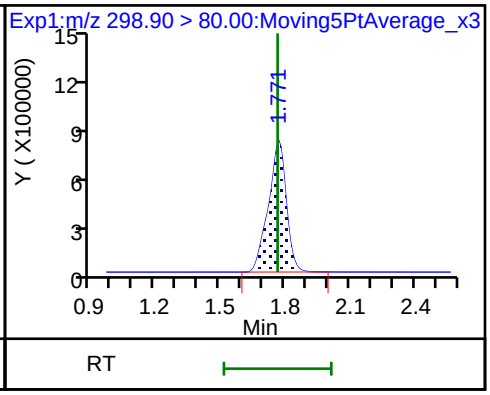
4 Perfluoropentanoic acid



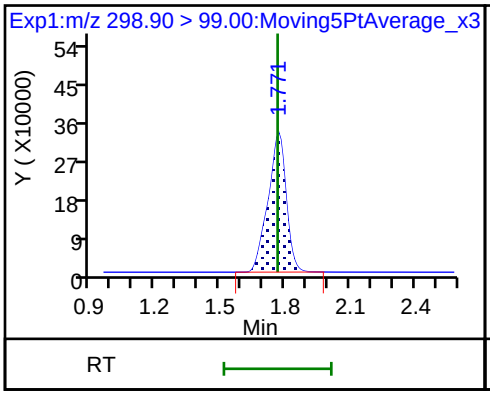
D 47 13C3-PFBS



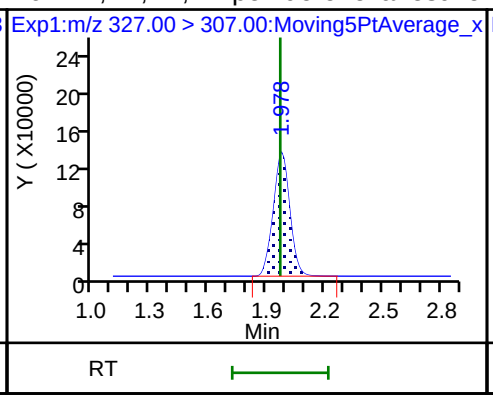
5 Perfluorobutanesulfonic acid



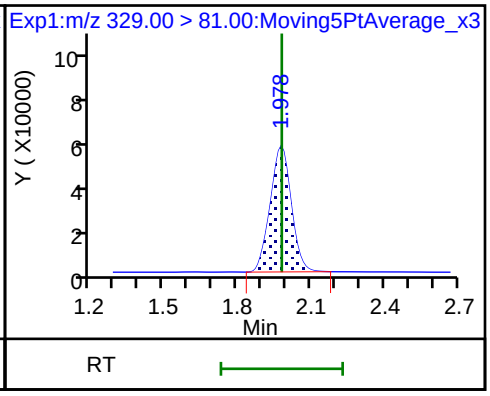
5 Perfluorobutanesulfonic acid



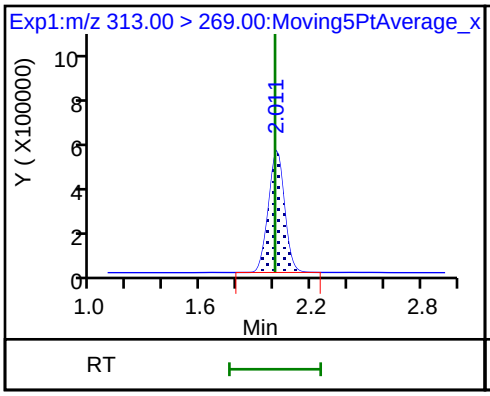
61 1H,1H,2H,2H-perfluorohexanesulfon



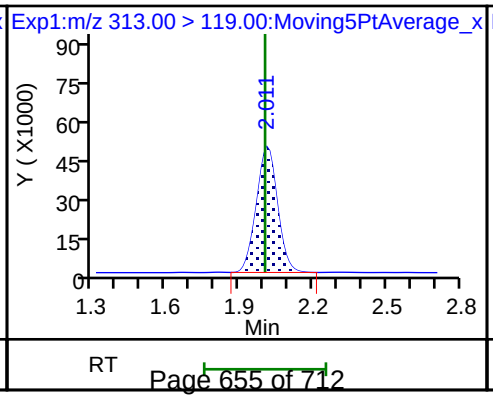
D 60 M2-4:2FTS



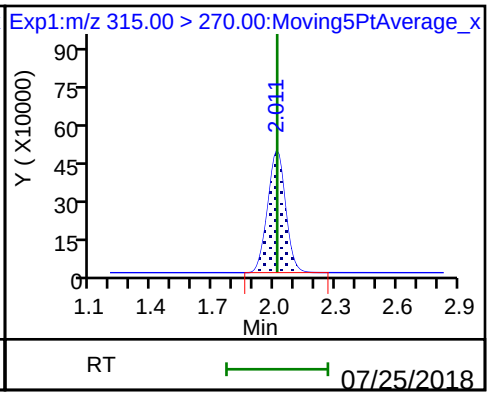
6 Perfluorohexanoic acid



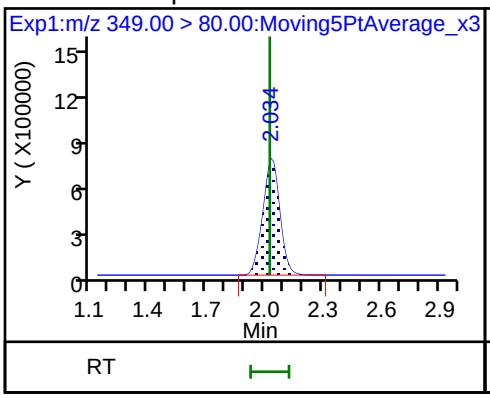
6 Perfluorohexanoic acid



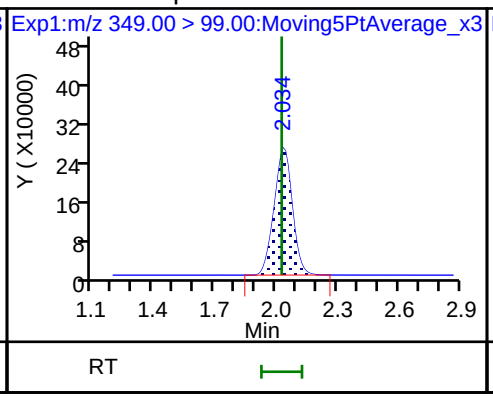
D 7 13C2 PFHxA



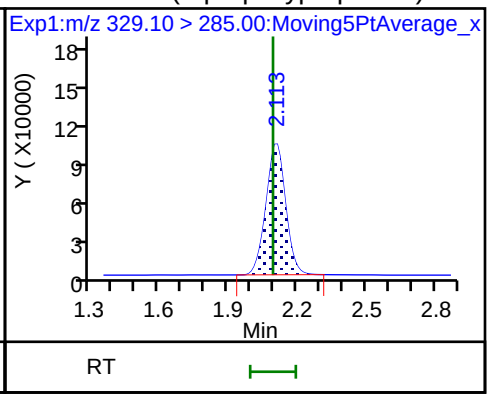
70 Perfluoropentanesulfonic acid



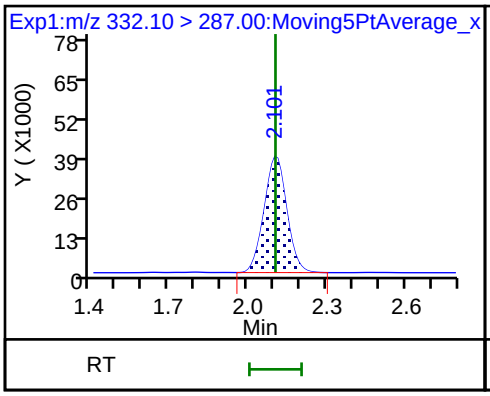
70 Perfluoropentanesulfonic acid



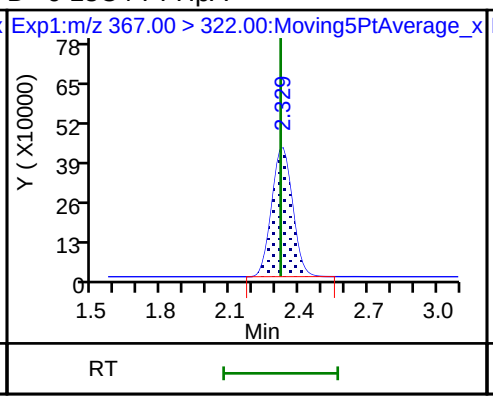
67 Perfluoro(2-propoxypropanoic) acid



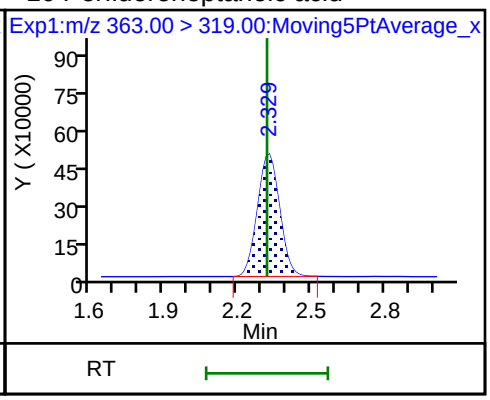
D 64 13C3 HFPO-DA



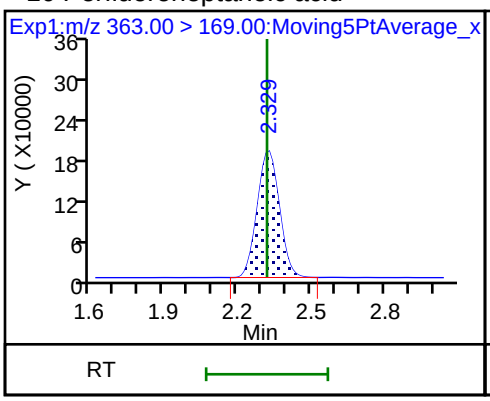
D 9 13C4-PFHpA



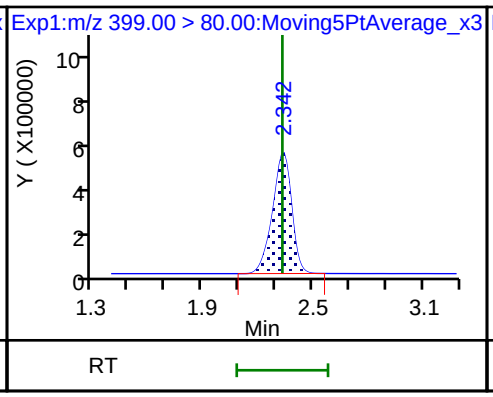
10 Perfluoroheptanoic acid



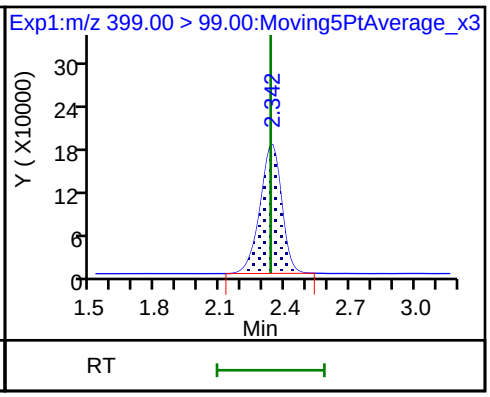
10 Perfluoroheptanoic acid



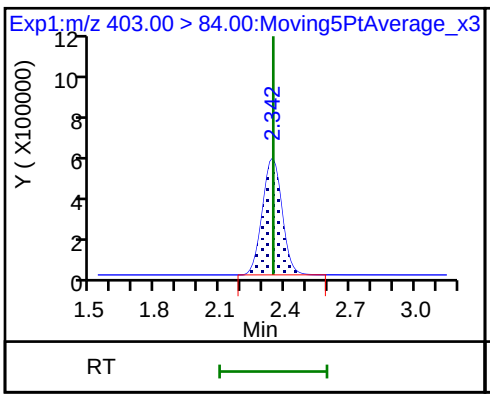
8 Perfluorohexanesulfonic acid



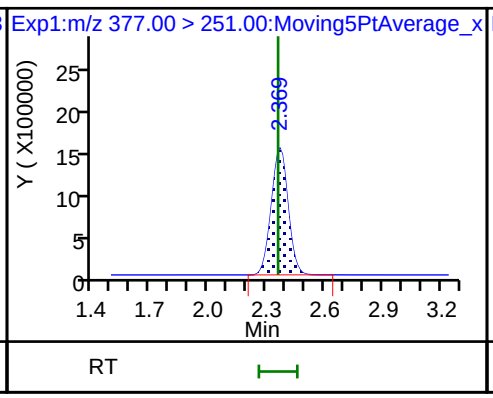
8 Perfluorohexanesulfonic acid



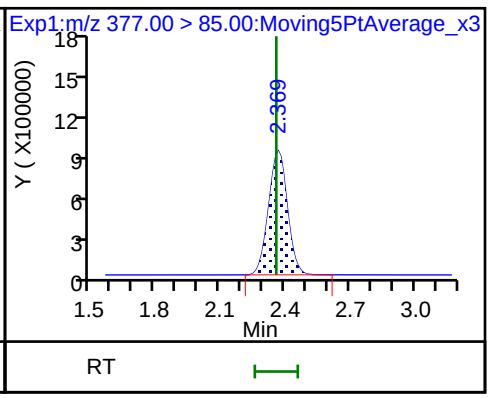
D 11 18O2 PFHxS



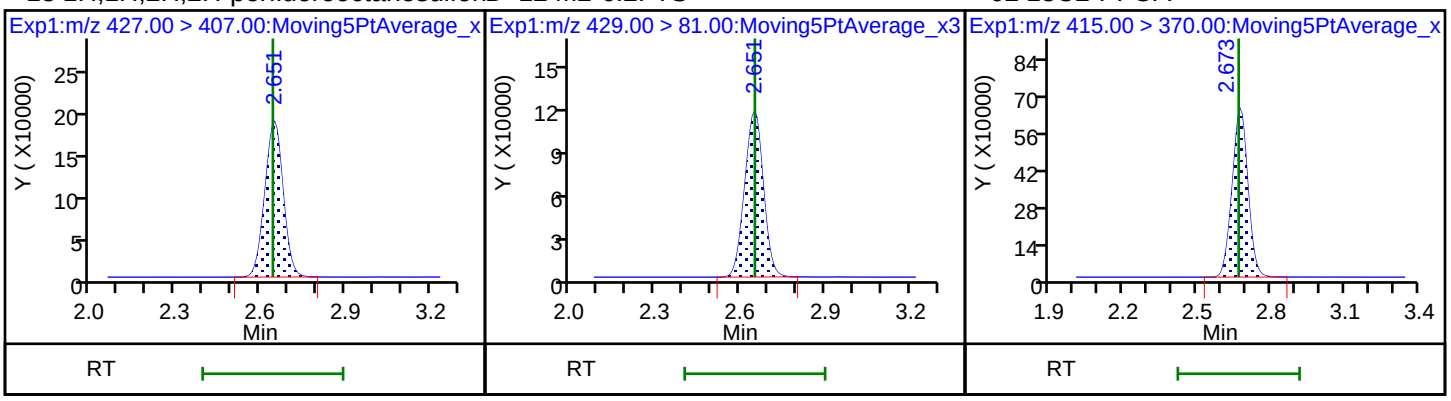
65 Adona



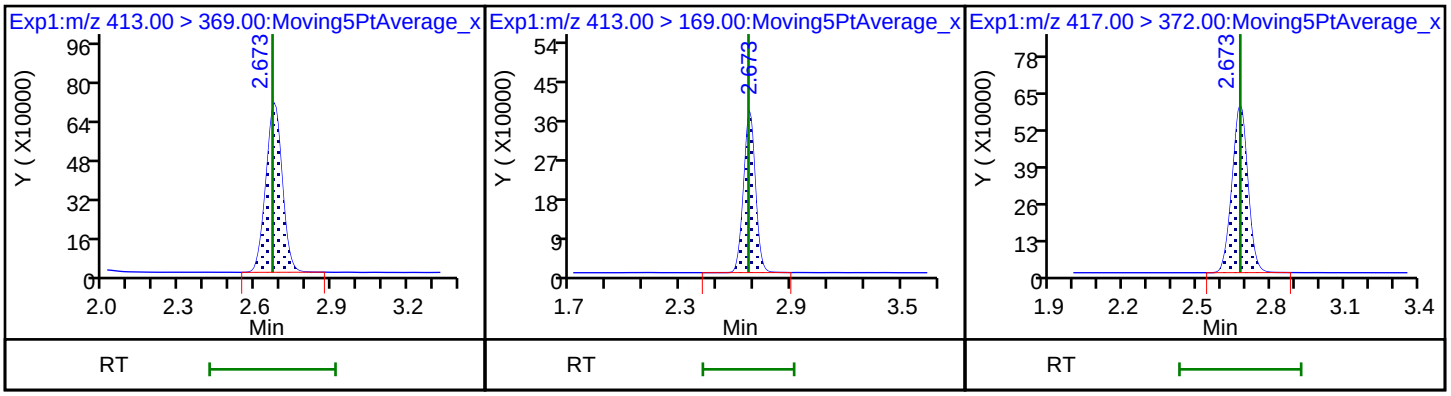
65 Adona



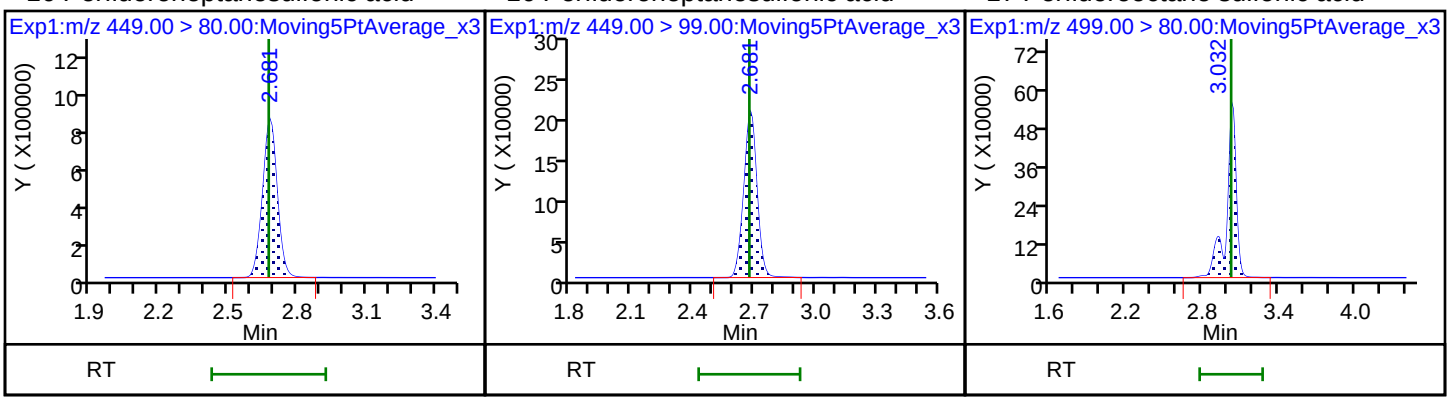
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



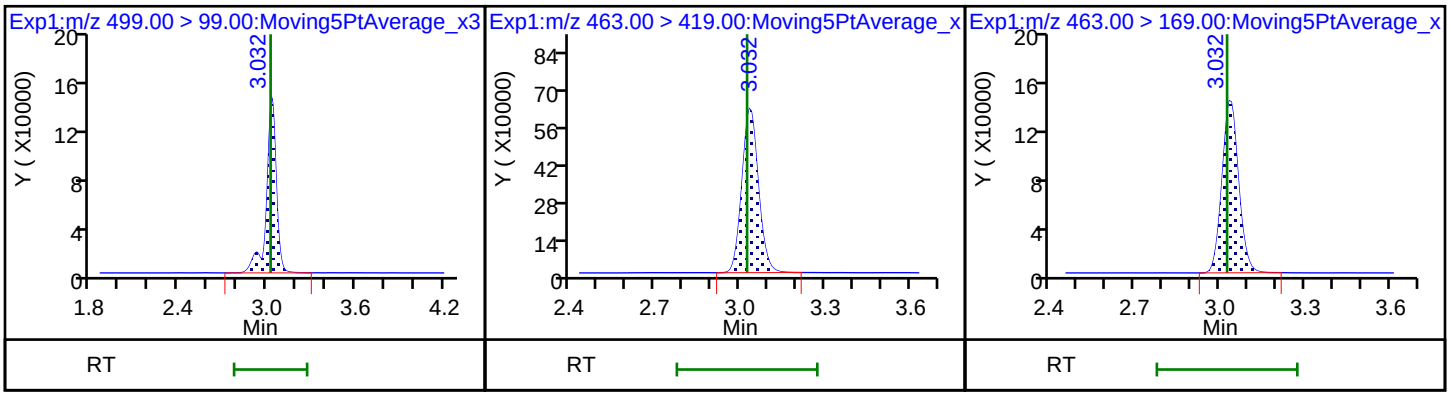
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



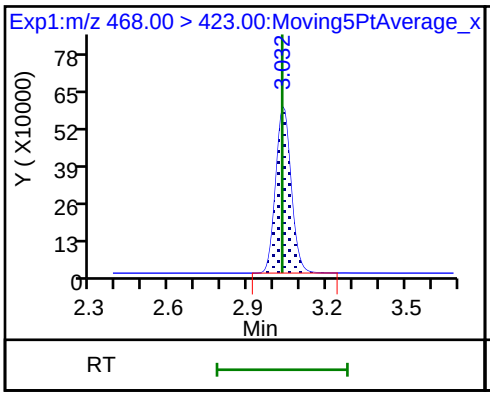
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



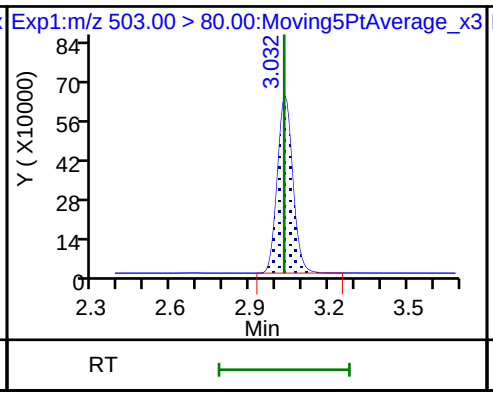
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



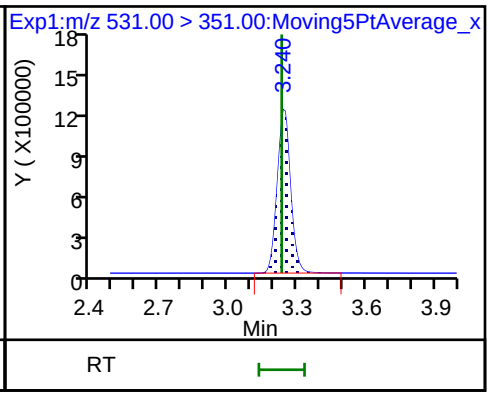
D 19 13C5 PFNA



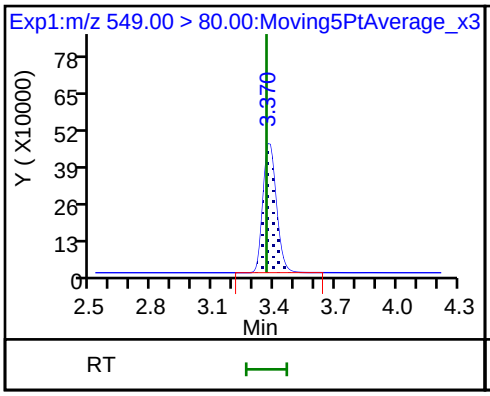
D 18 13C4 PFOS



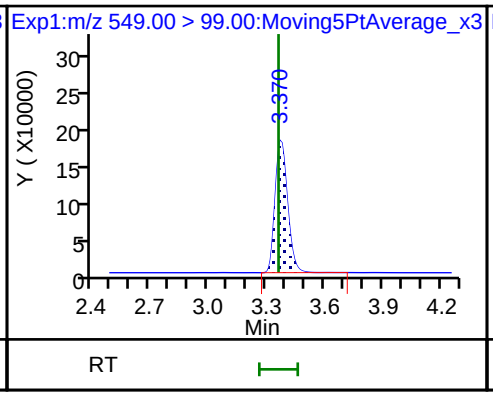
69 9-Chlorohexadecafluoro-3-oxanonane



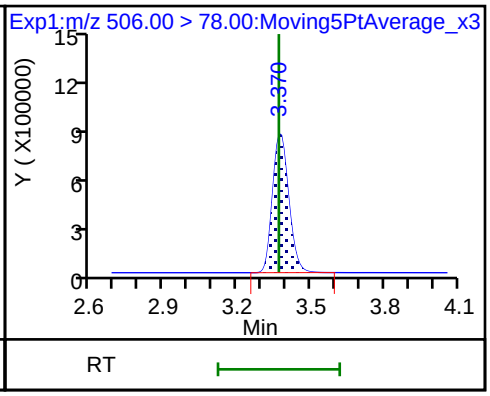
68 Perfluorononanesulfonic acid



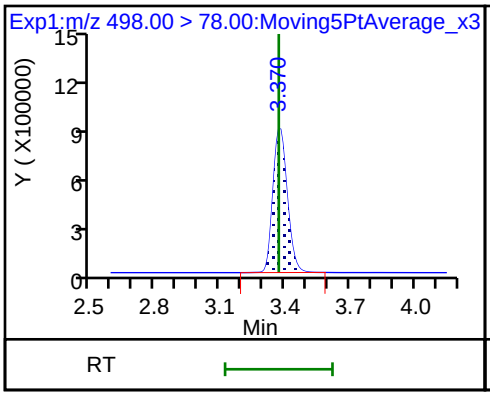
68 Perfluorononanesulfonic acid



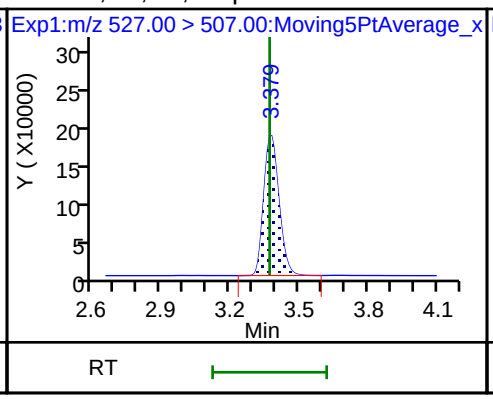
D 21 13C8 FOSA



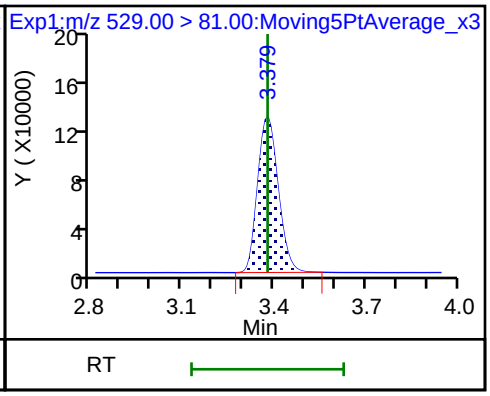
22 Perfluorooctane Sulfonamide



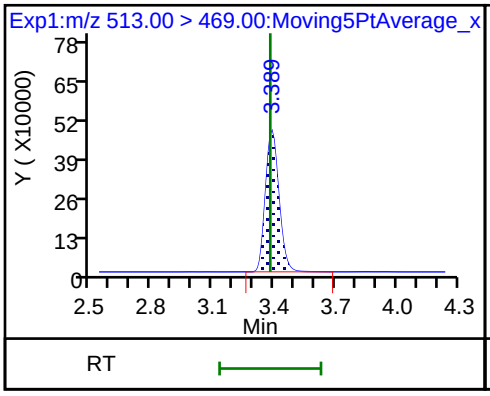
25 1H,1H,2H,2H-perfluorodecanesulfon



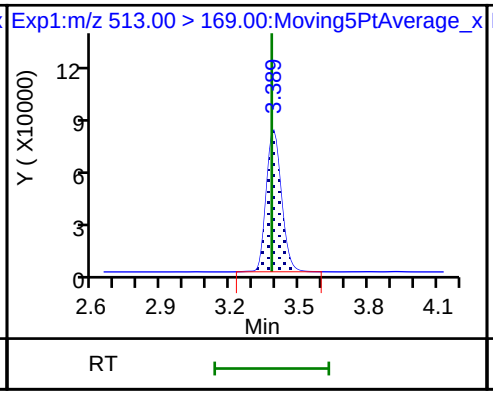
D 26 M2-8:2FTS



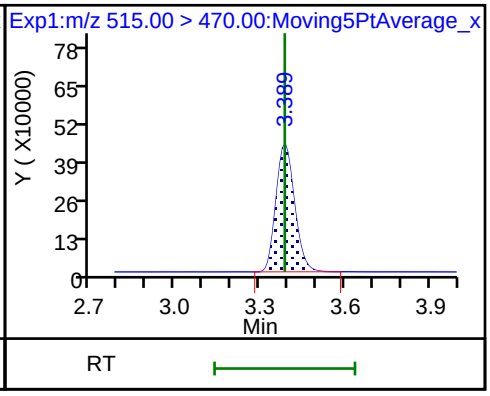
24 Perfluorodecanoic acid



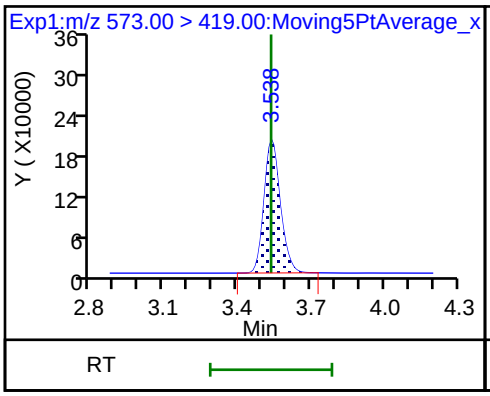
24 Perfluorodecanoic acid



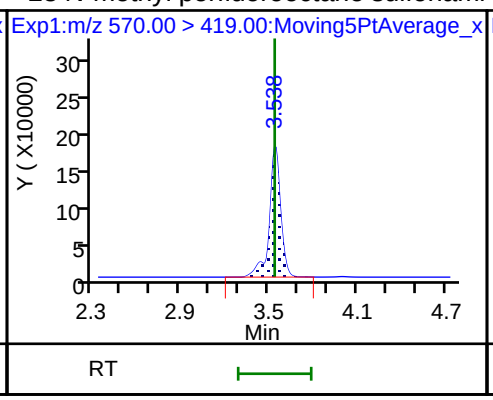
D 23 13C2 PFDA



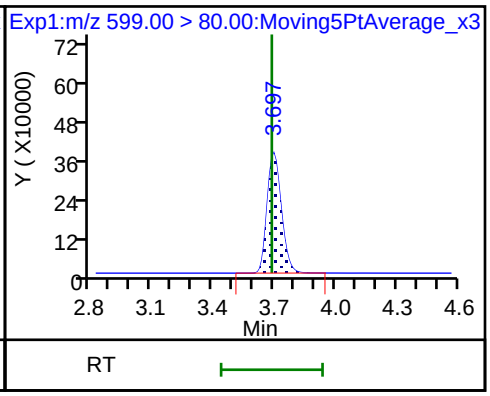
D 27 d3-NMeFOSAA



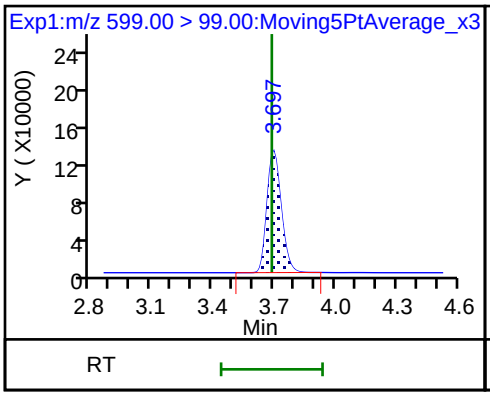
28 N-methyl perfluorooctane sulfonami



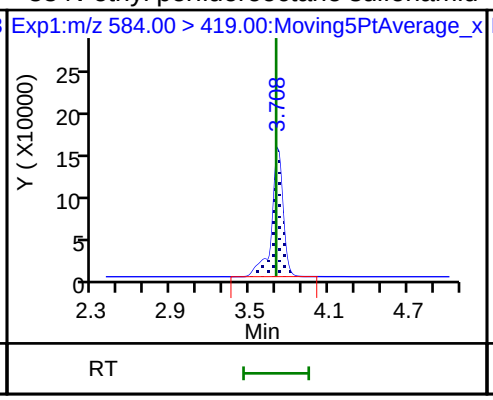
29 Perfluorodecane Sulfonic acid



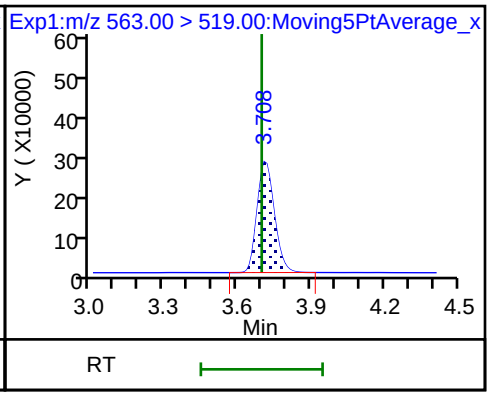
29 Perfluorodecane Sulfonic acid



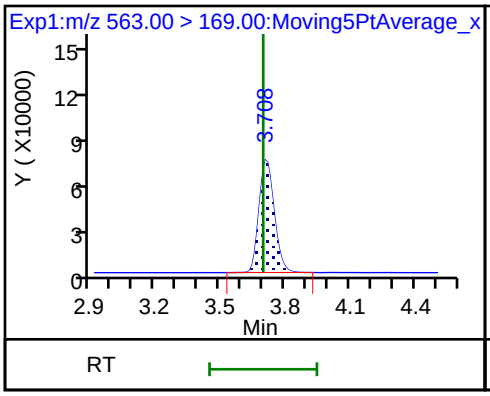
33 N-ethyl perfluorooctane sulfonamid



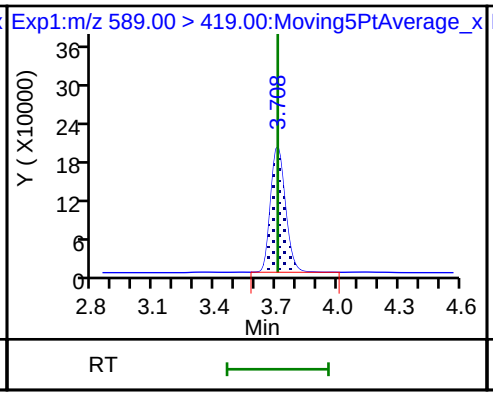
31 Perfluoroundecanoic acid



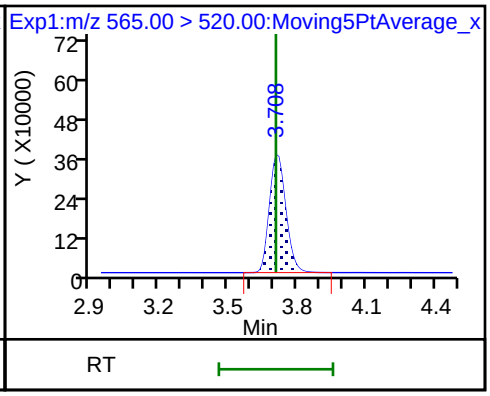
31 Perfluoroundecanoic acid



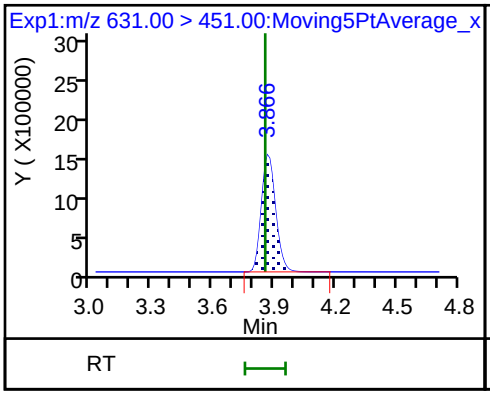
D 32 d5-NEtFOSAA



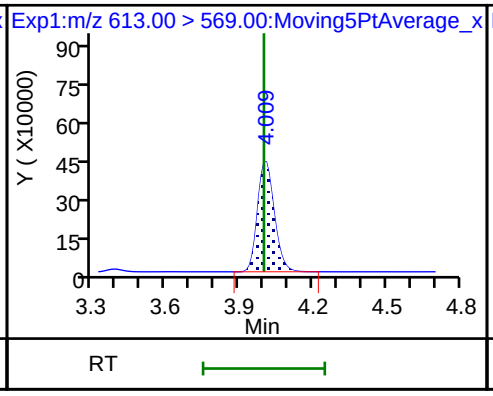
D 30 13C2 PFUnA



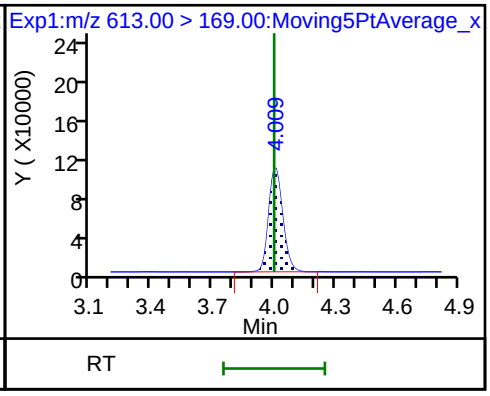
66 11-Chloroeicosafluoro-3-oxaundecan



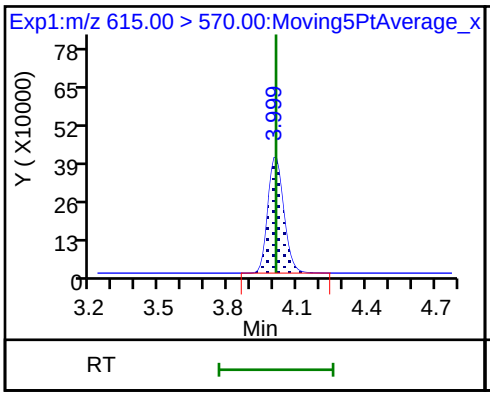
37 Perfluorododecanoic acid



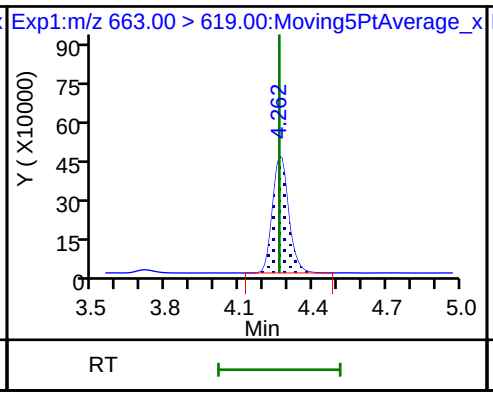
37 Perfluorododecanoic acid



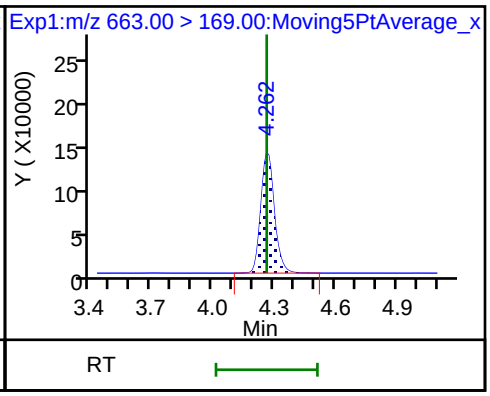
D 36 13C2 PFDoA



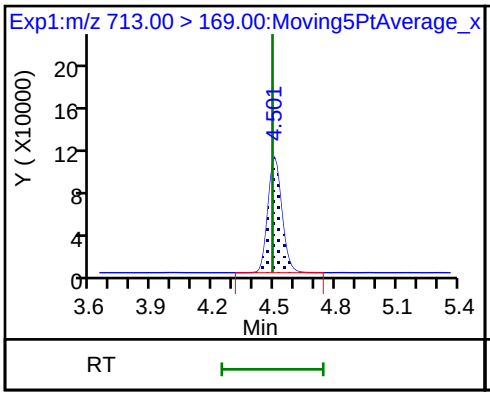
41 Perfluorotridecanoic acid



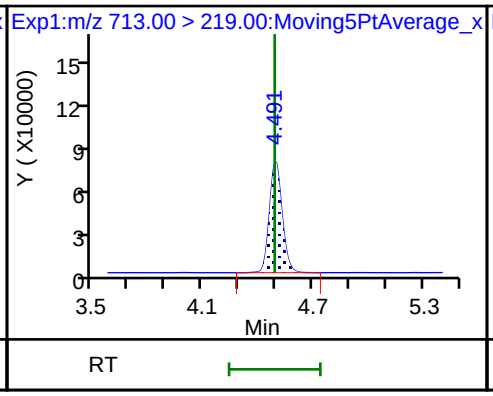
41 Perfluorotridecanoic acid



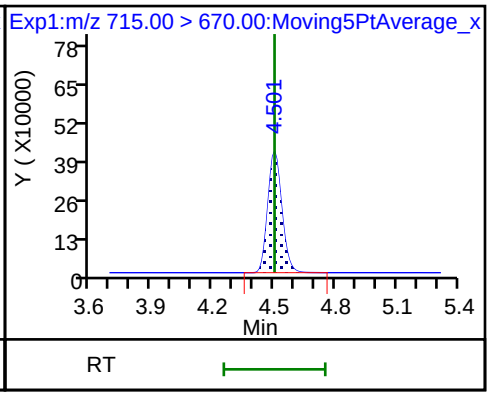
42 Perfluorotetradecanoic acid



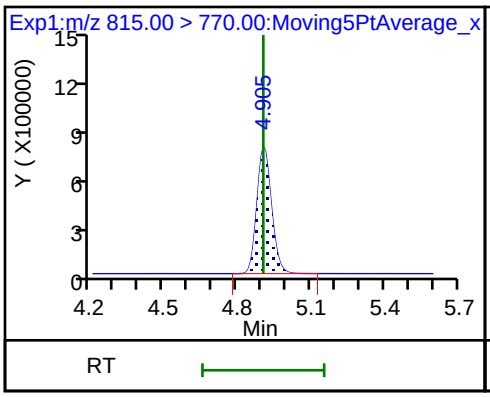
42 Perfluorotetradecanoic acid



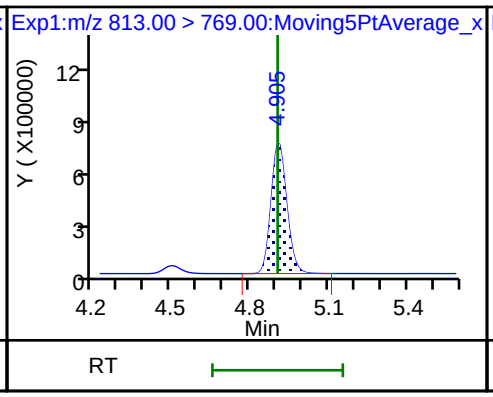
D 43 13C2-PFTeDA



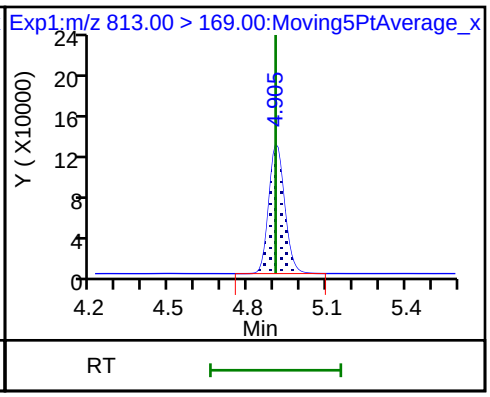
D 44 13C2-PFHxDA



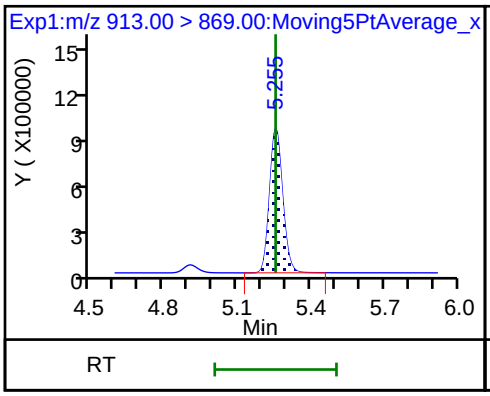
45 Perfluorohexadecanoic acid



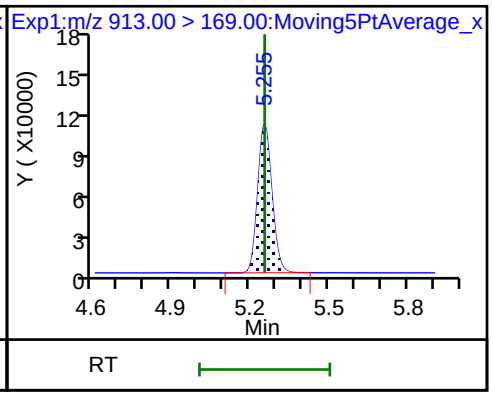
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-232888/1-A

Matrix: Water | Lab File ID: 2018.07.10LLB_048.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:51

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-232888/1-A

Matrix: Water Lab File ID: 2018.07.10LLB_048.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) Date Analyzed: 07/11/2018 01:51

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	75		25-150
STL00992	13C4 PFBA	81		25-150
STL00993	13C2 PFHxA	79		25-150
STL00990	13C4 PFOA	87		25-150
STL00995	13C5 PFNA	87		25-150
STL00996	13C2 PFDA	88		25-150
STL00997	13C2 PFUnA	85		25-150
STL00998	13C2 PFDoA	87		25-150
STL00994	18O2 PFHxS	93		25-150
STL00991	13C4 PFOS	85		25-150
STL01892	13C4-PFHpA	84		25-150
STL01893	13C5 PFPeA	78		25-150
STL02337	13C3-PFBS	77		25-150
STL02116	13C2-PFTeDA	80		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d
Lims ID: MB 320-232888/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2018 01:51:01 ALS Bottle#: 34 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-232888/1-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:36:16 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:36:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.425	-0.001	0.535	5808400	2.02		80.7	24460	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.710	1.712	-0.002	0.643	4142347	1.94		77.8	38011	
D 47 13C3-PFBS										
301.90 > 83.00	1.746	1.748	-0.002	0.657	91709	1.80		77.4	685	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	1.994	0.008	0.753	4493979	1.97		78.8	50169	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.084	0.009	0.787	397586	2.13		85.1	6929	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.309	0.010	0.872	4258090	2.10		84.2	40689	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.322	0.010	0.877	5499799	2.21		93.4	79737	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.621	0.014	0.991	975812	2.15		90.4	15353	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.652	0.007		5197613	2.50			33050	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.653	0.006	1.000	4294950	2.17		86.6	49617	
D 19 13C5 PFNA										
468.00 > 423.00	3.021	3.010	0.011	1.136	3656912	2.17		86.8	41699	
D 18 13C4 PFOS										
503.00 > 80.00	3.021	3.010	0.011	1.136	3600434	2.03		84.7	37818	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.351	0.014	1.265	1074901	2.13		88.8	24824	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.351	0.014	1.265	4601571	1.86		74.6	40912	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	3.374	3.361	0.013	1.269	3204095	2.20		88.2	30714	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.524	3.519	0.005	1.325	1719293	2.01		80.3	22569	
D 30 13C2 PFUnA										
565.00 > 520.00	3.690	3.687	0.003	1.388	2609552	2.14		85.5	25775	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.687	0.003	1.388	1792485	2.12		84.7	11046	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.977	0.012	1.500	2842733	2.17		86.9	13308	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.480	0.011	1.689	3208423	2.01		80.5	11202	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.841	6323537	2.14		85.7	11223	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:36:17 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d

Injection Date: 11-Jul-2018 01:51:01 Instrument ID: A8_N

Lims ID: MB 320-232888/1-A

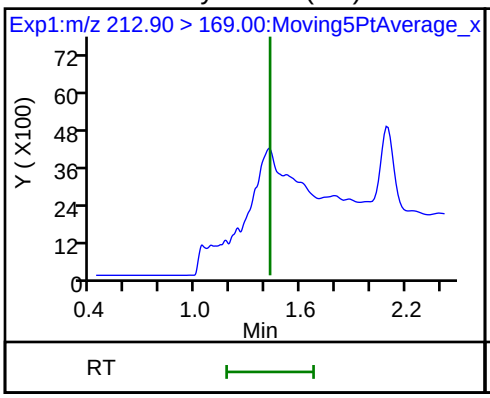
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 34 Worklist Smp#: 2

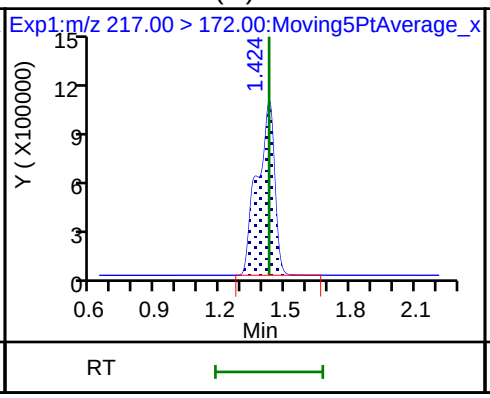
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

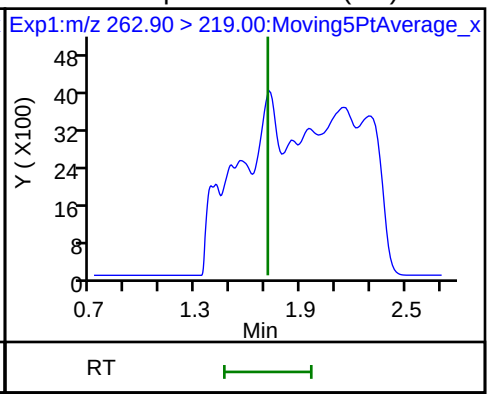
2 Perfluorobutyric acid (ND)



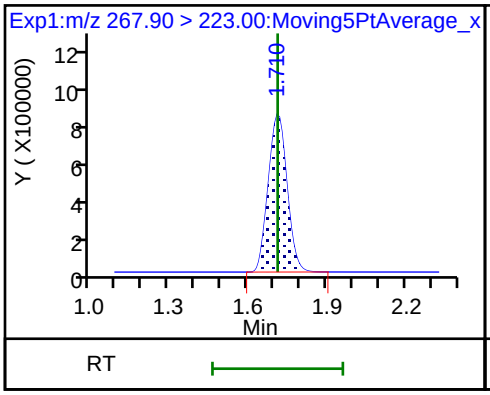
D 1 13C4 PFBA (M)



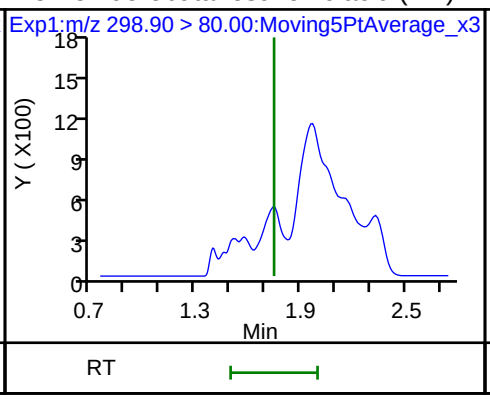
4 Perfluoropentanoic acid (ND)



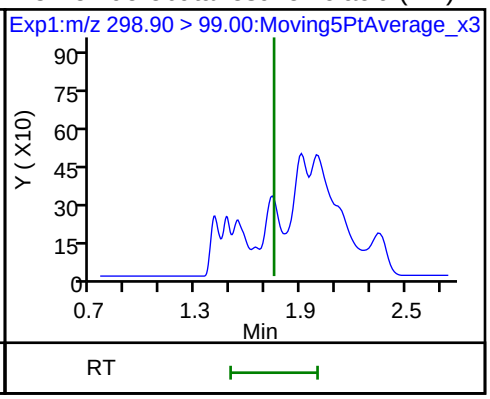
D 3 13C5-PFPeA



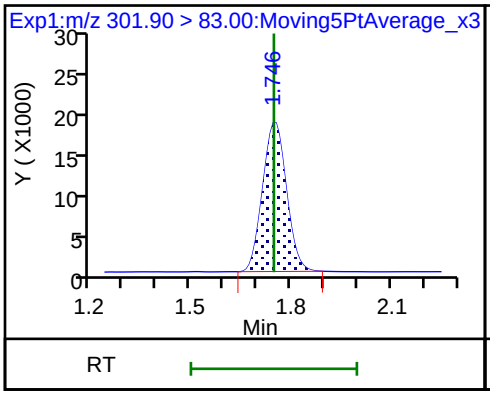
5 Perfluorobutanesulfonic acid (ND)



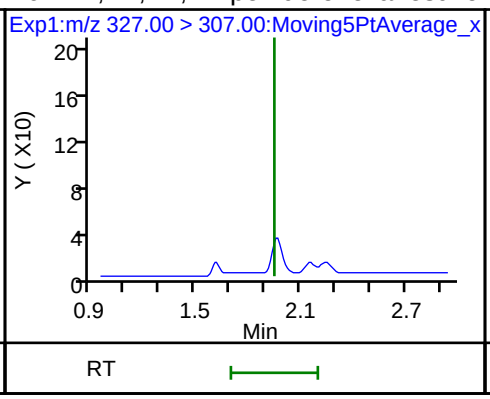
5 Perfluorobutanesulfonic acid (ND)



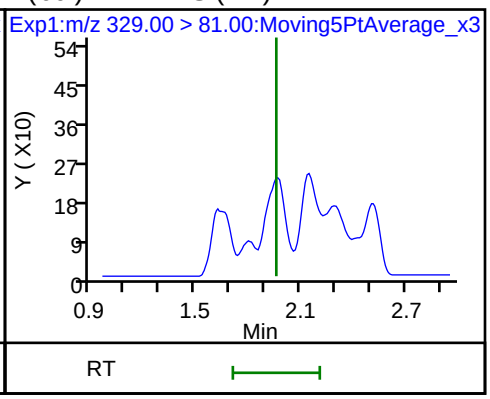
D 47 13C3-PFBS



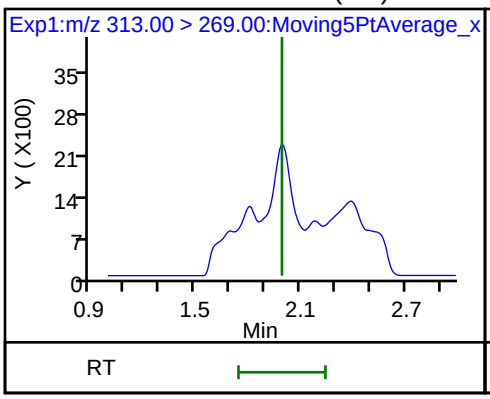
61 1H,1H,2H,2H-perfluorohexanesulfonic (ND)



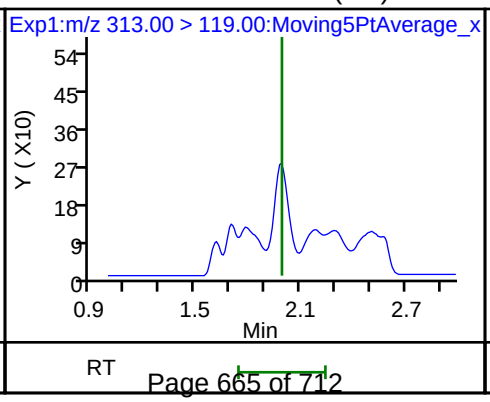
D 80 M2-4:2FTS (ND)



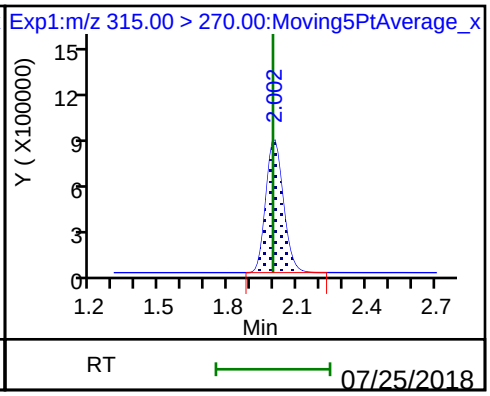
6 Perfluorohexanoic acid (ND)



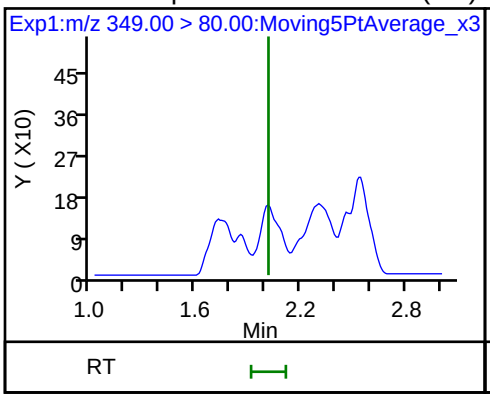
6 Perfluorohexanoic acid (ND)



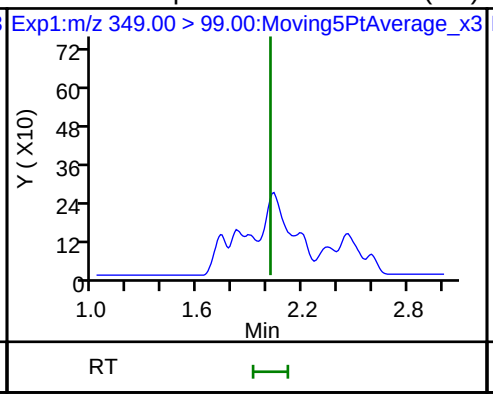
D 7 13C2 PFHxA



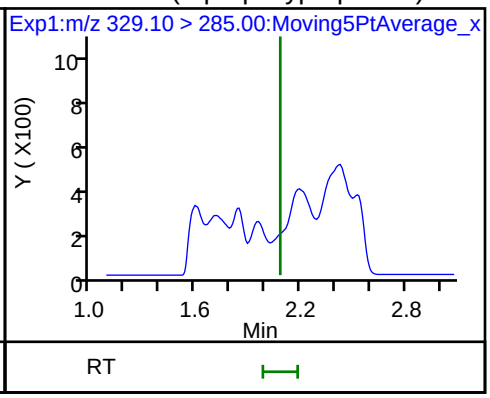
70 Perfluoropentanesulfonic acid (ND)



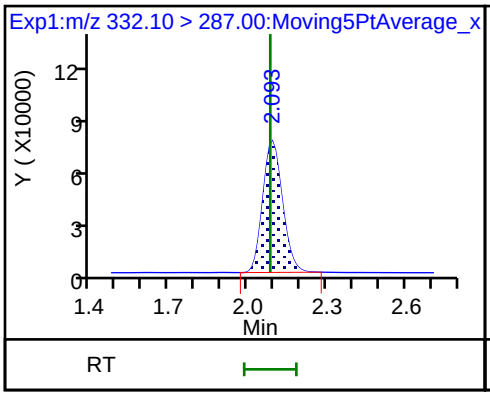
70 Perfluoropentanesulfonic acid (ND)



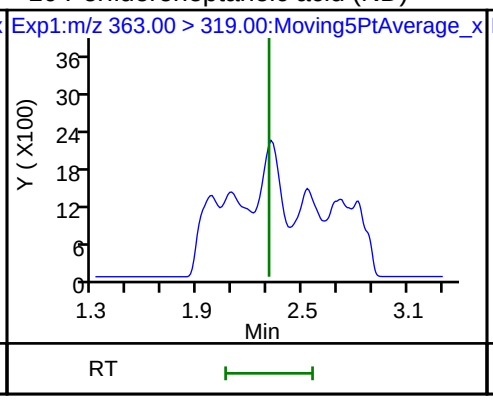
67 Perfluoro(2-propoxypropanoic) acid (ND)



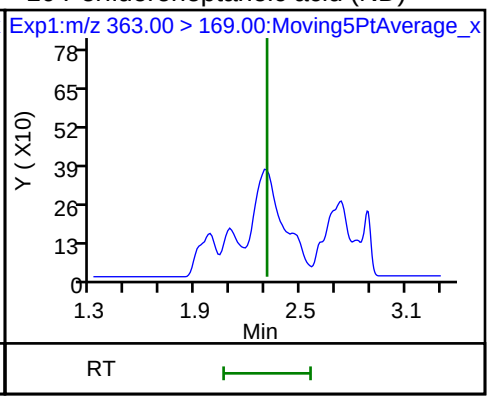
D 64 13C3 HFPO-DA



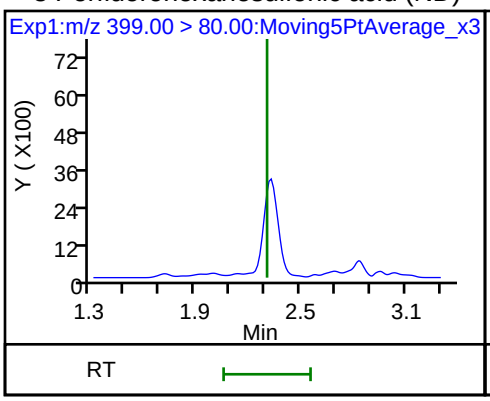
10 Perfluoroheptanoic acid (ND)



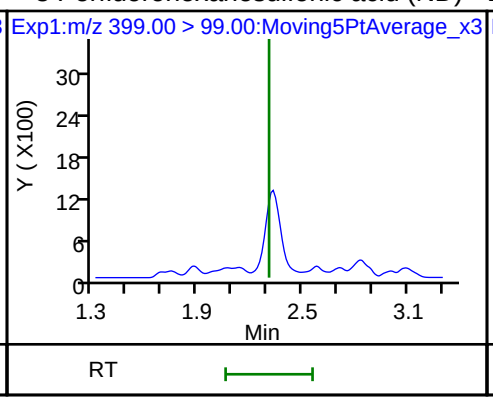
10 Perfluoroheptanoic acid (ND)



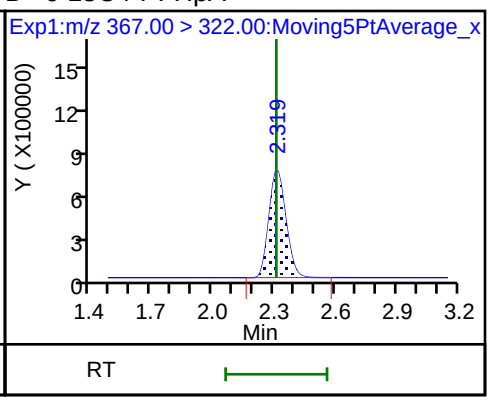
8 Perfluorohexanesulfonic acid (ND)



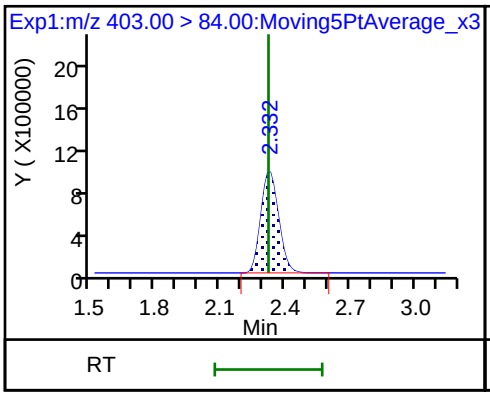
8 Perfluorohexanesulfonic acid (ND)



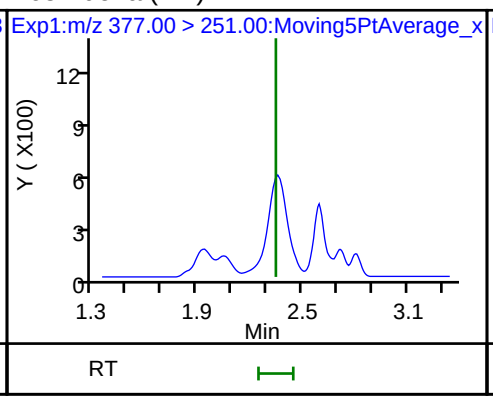
D 9 13C4-PFHpA



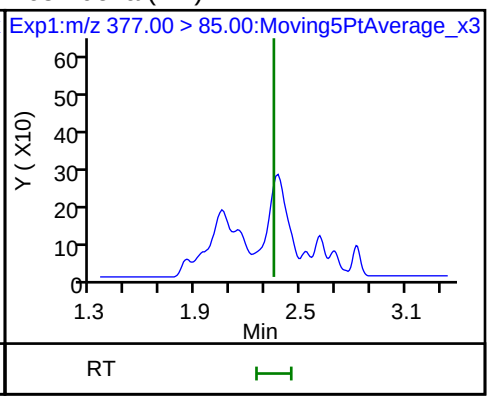
D 11 18O2 PFHxS



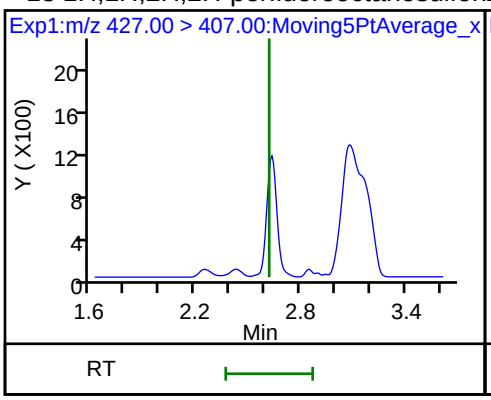
65 Adona (ND)



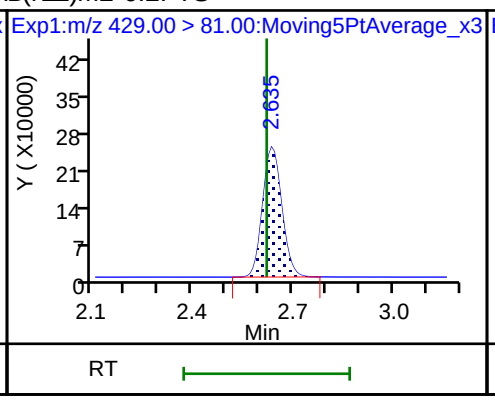
65 Adona (ND)



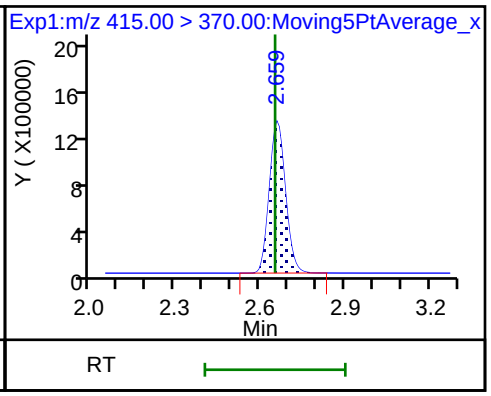
13 1H,1H,2H,2H-perfluorooctanesulfonic(NL2)M2-6:2FTS



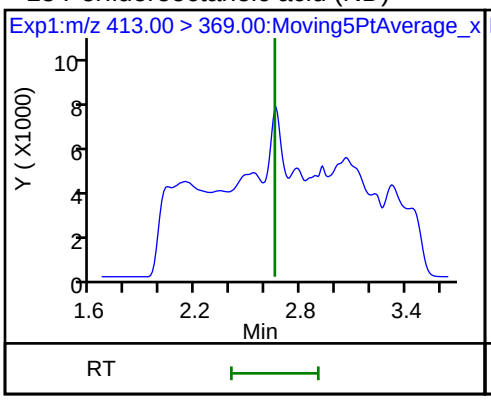
D 12



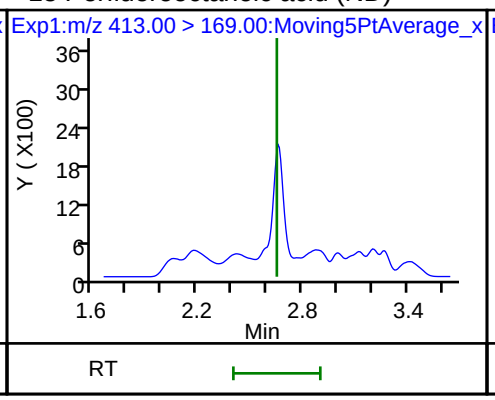
* 62 13C2-PFOA



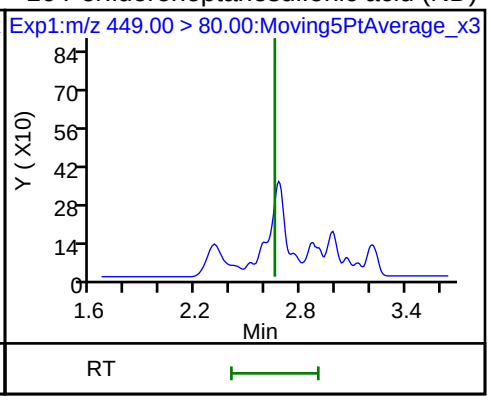
15 Perfluorooctanoic acid (ND)



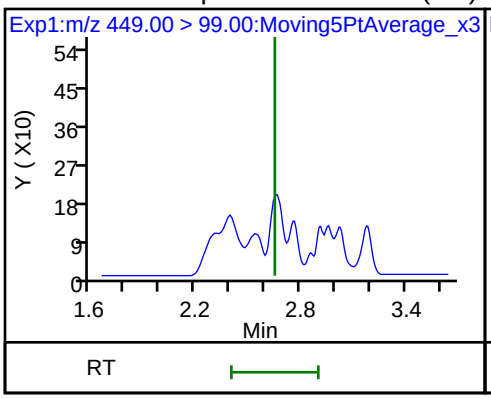
15 Perfluorooctanoic acid (ND)



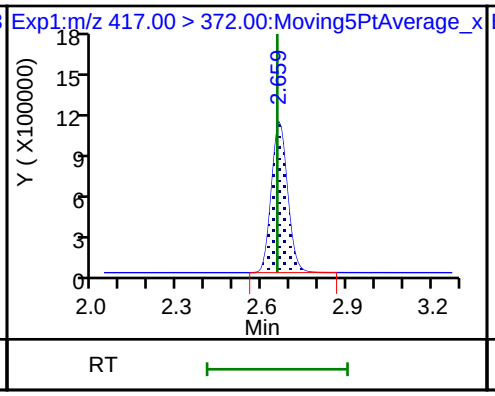
16 Perfluoroheptanesulfonic acid (ND)



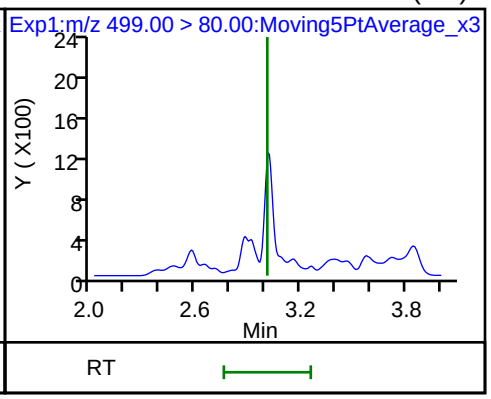
16 Perfluoroheptanesulfonic acid (ND)



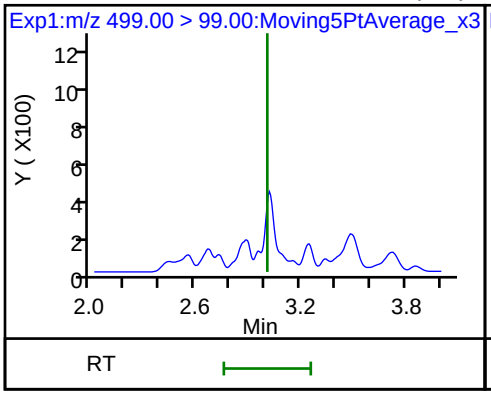
D 14 13C4 PFOA



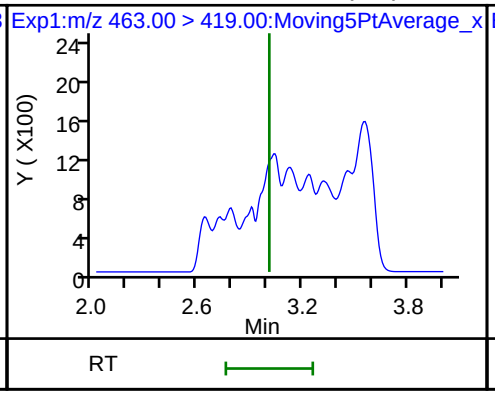
17 Perfluorooctane sulfonic acid (ND)



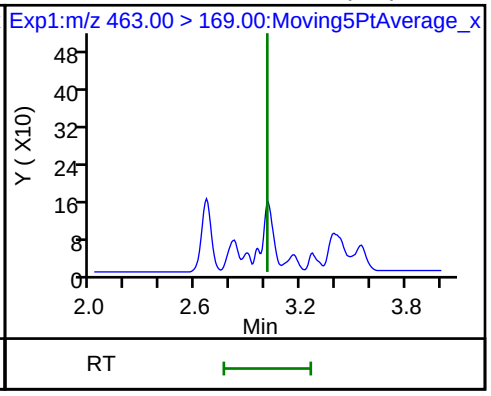
17 Perfluorooctane sulfonic acid (ND)



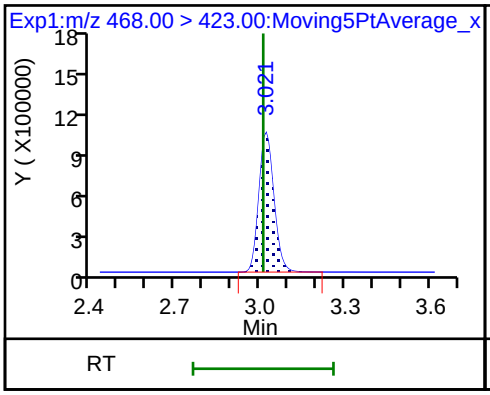
20 Perfluorononanoic acid (ND)



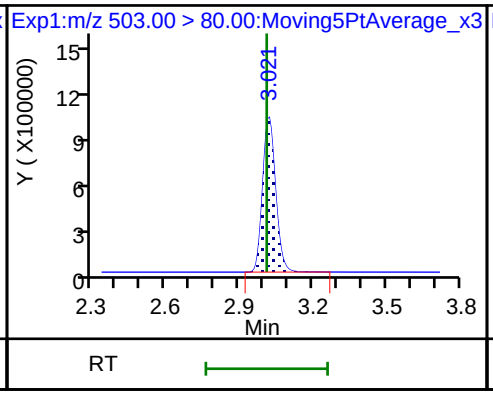
20 Perfluorononanoic acid (ND)



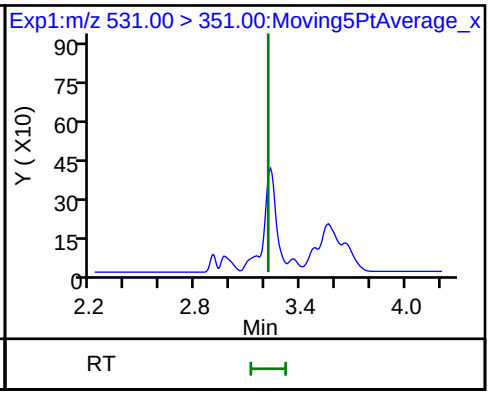
D 19 13C5 PFNA



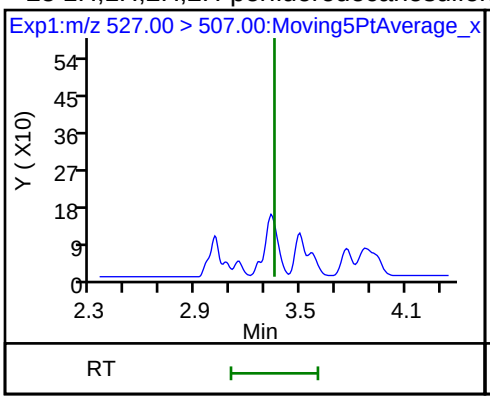
D 18 13C4 PFOS



69 9-Chlorohexadecafluoro-3-oxanonane (ND)

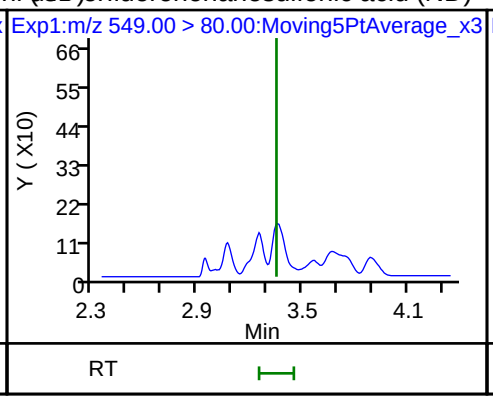


25 1H,1H,2H,2H-perfluorodecanesulfoni

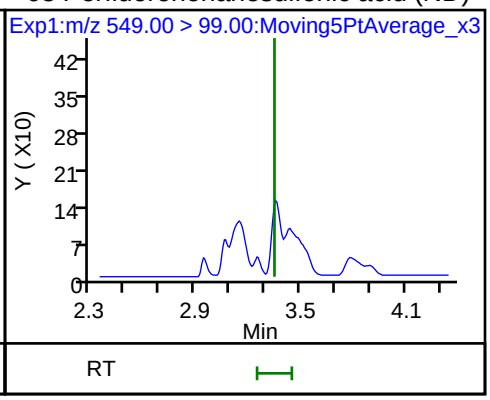


(ND)

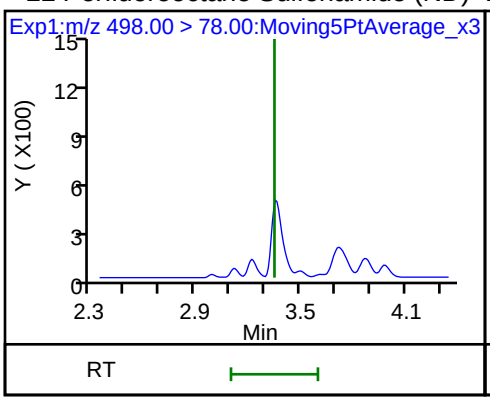
68 Perfluorononanesulfonic acid (ND)



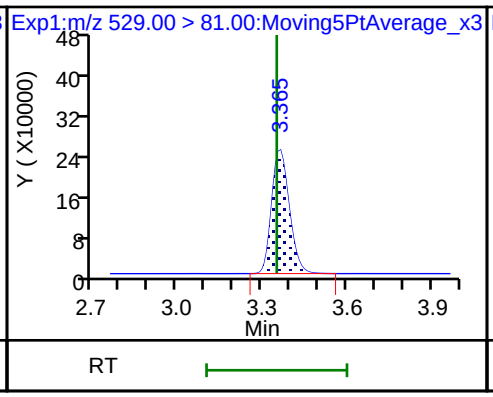
68 Perfluorononanesulfonic acid (ND)



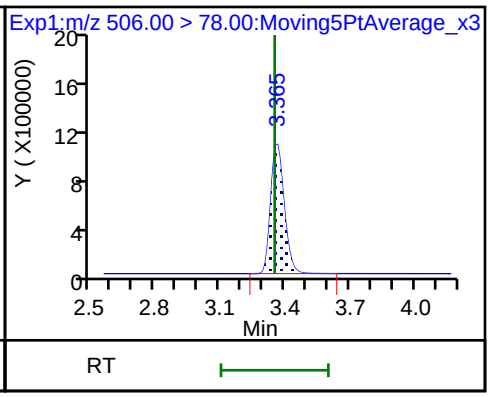
22 Perfluorooctane Sulfonamide (ND)



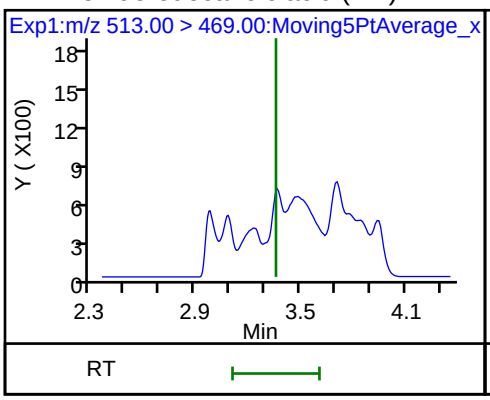
D 26 M2-8:2FTS



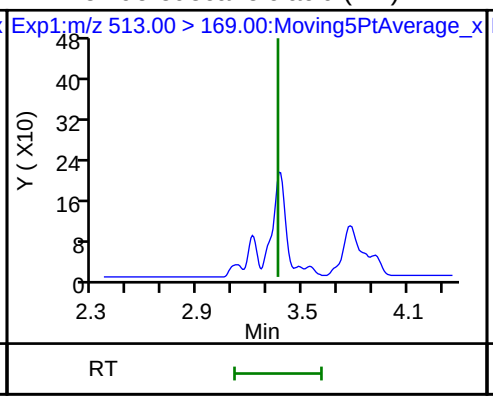
D 21 13C8 FOSA



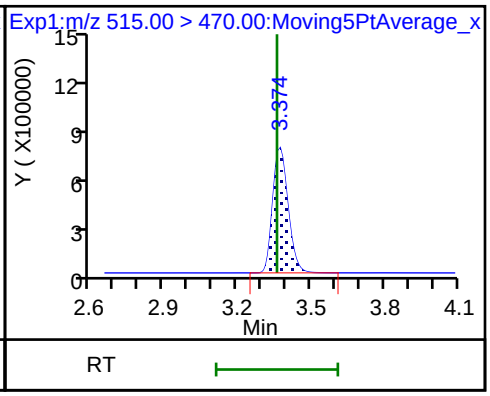
24 Perfluorodecanoic acid (ND)



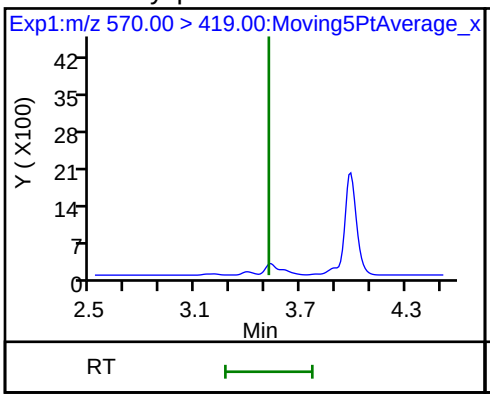
24 Perfluorodecanoic acid (ND)



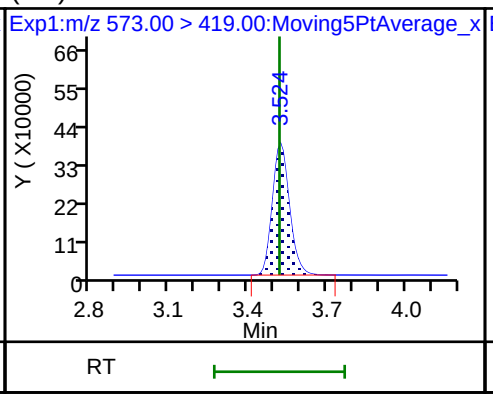
D 23 13C2 PFDA



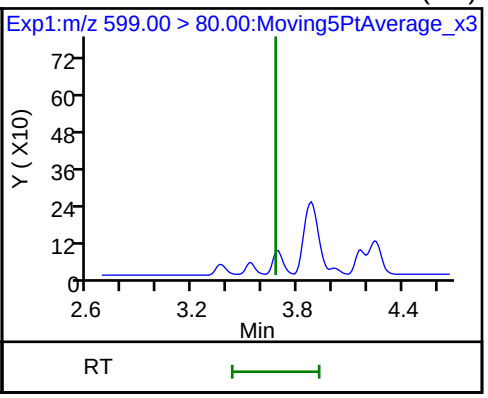
28 N-methyl perfluorooctane sulfonamid (ND)



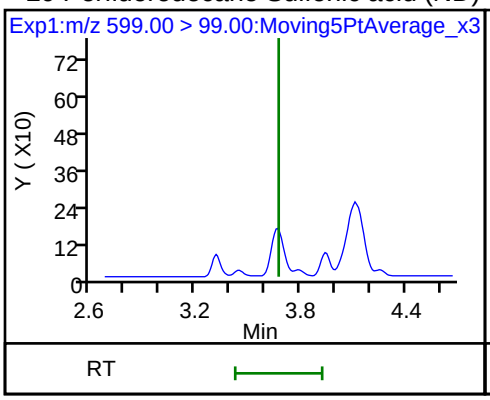
D 27 d3-NMeFOSAA



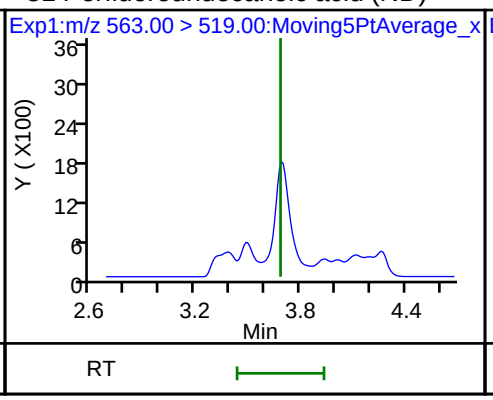
29 Perfluorodecane Sulfonic acid (ND)



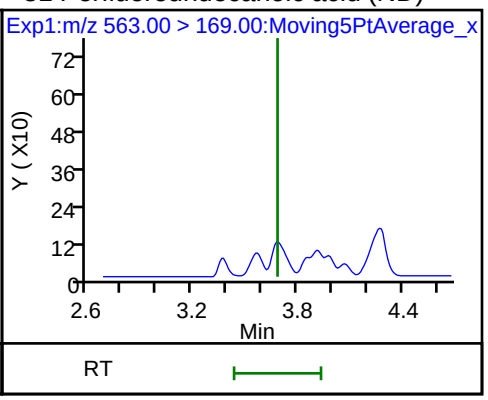
29 Perfluorodecane Sulfonic acid (ND)



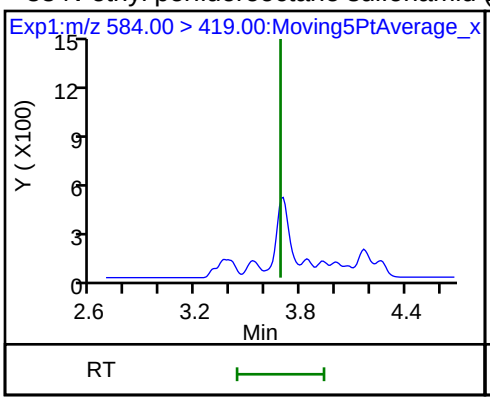
31 Perfluoroundecanoic acid (ND)



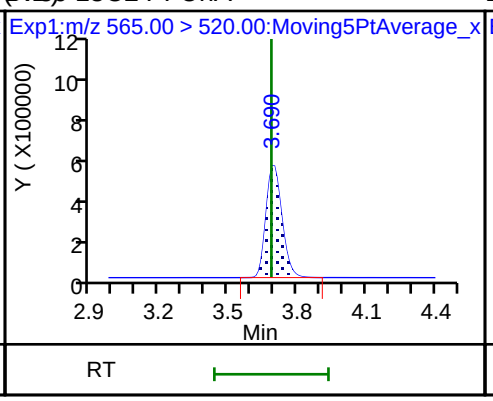
31 Perfluoroundecanoic acid (ND)



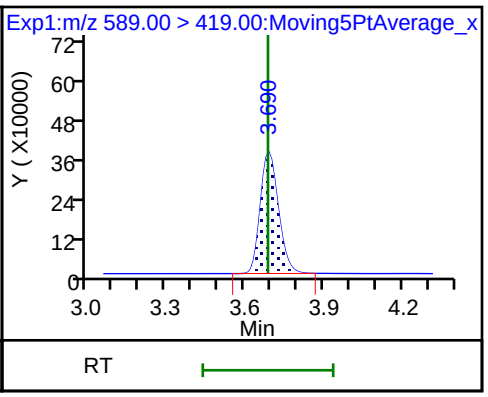
33 N-ethyl perfluorooctane sulfonamid (ND)



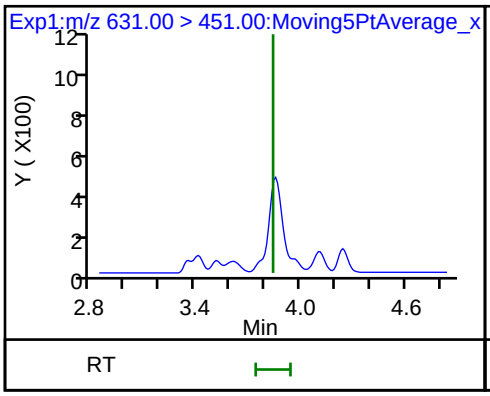
D 30 13C2 PFUnA



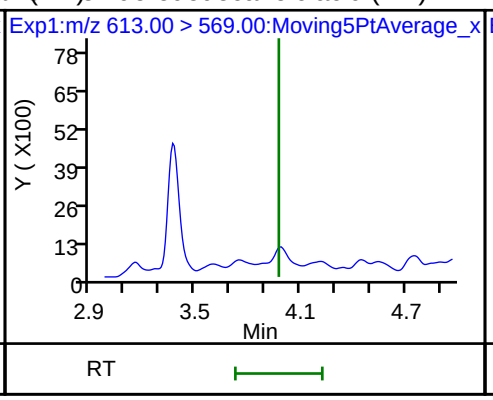
D 32 d5-NEtFOSAA



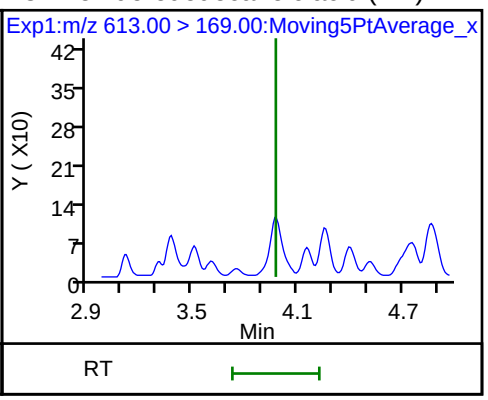
66 11-Chloroeicosafluoro-3-oxaundecan (ND)



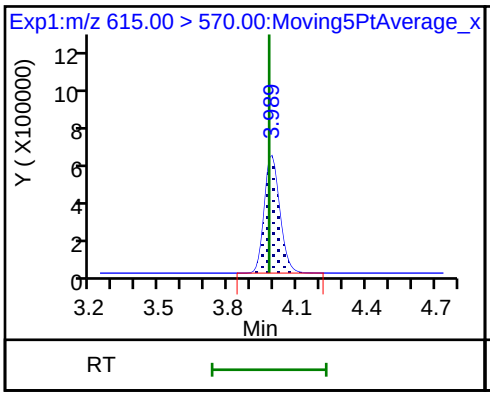
37 Perfluorododecanoic acid (ND)



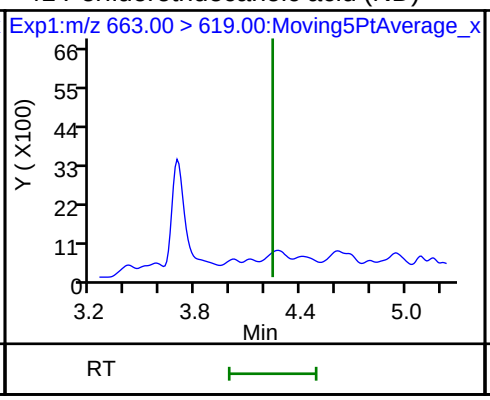
37 Perfluorododecanoic acid (ND)



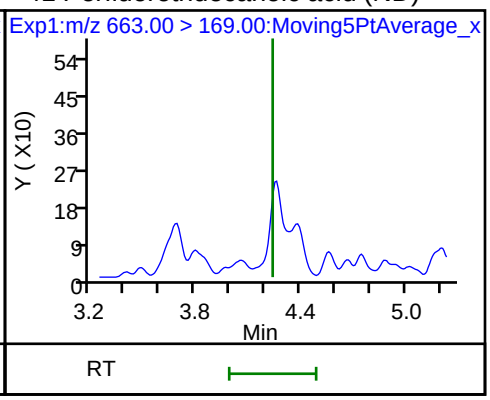
D 36 13C2 PFDoA



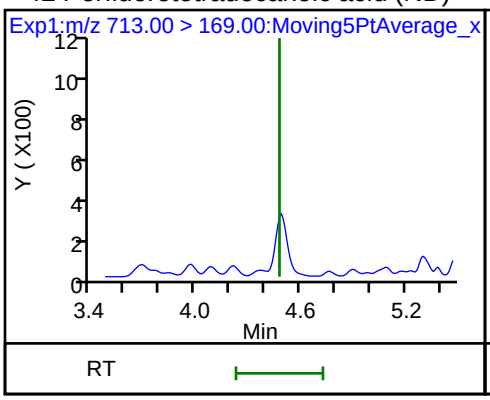
41 Perfluorotridecanoic acid (ND)



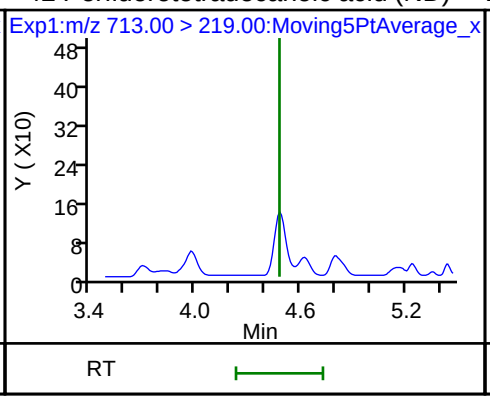
41 Perfluorotridecanoic acid (ND)



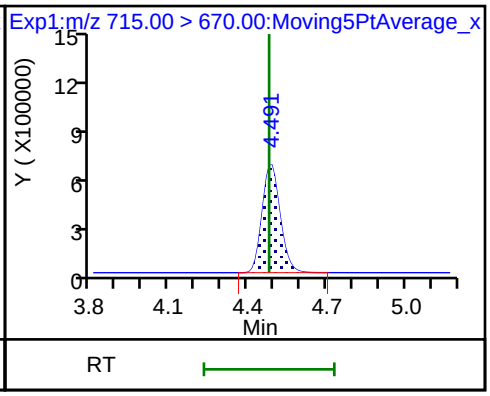
42 Perfluorotetradecanoic acid (ND)



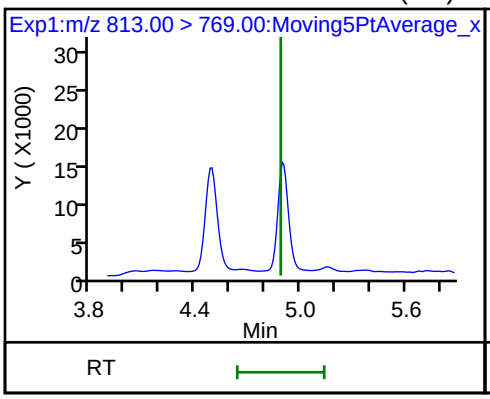
42 Perfluorotetradecanoic acid (ND)



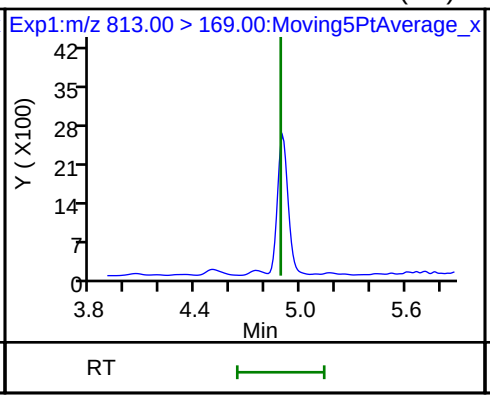
D 43 13C2-PFTeDA



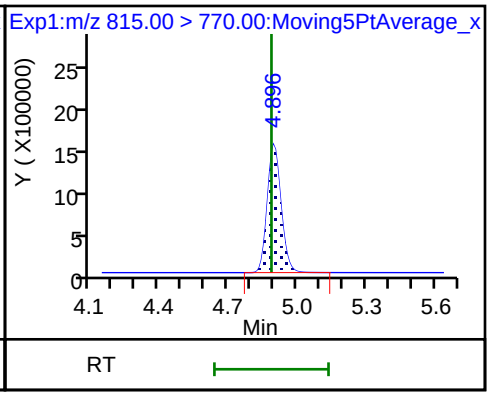
45 Perfluorohexadecanoic acid (ND)



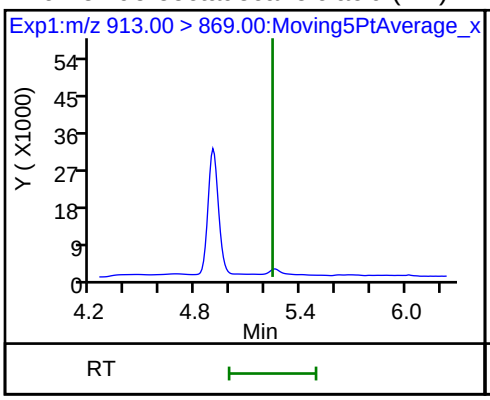
45 Perfluorohexadecanoic acid (ND)



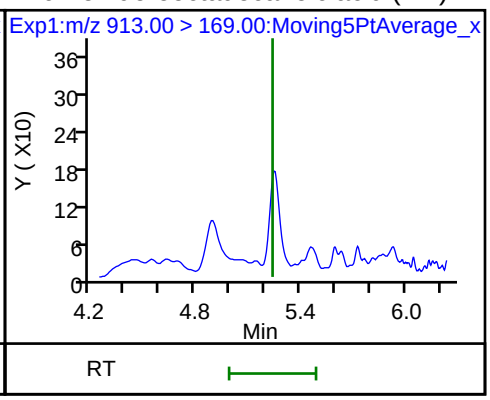
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

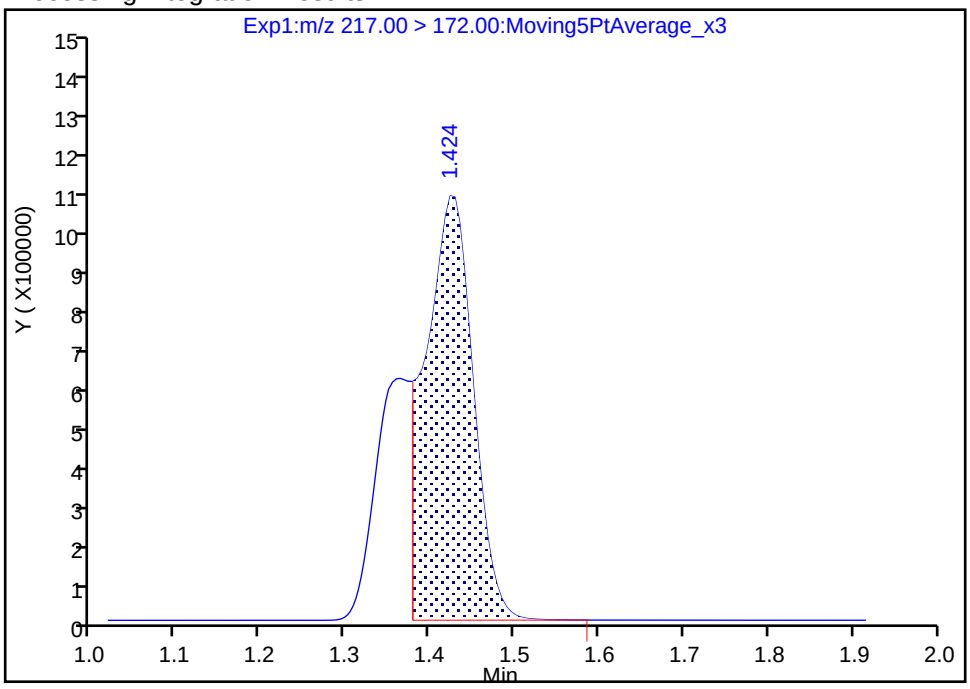
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d
Injection Date: 11-Jul-2018 01:51:01 Instrument ID: A8_N
Lims ID: MB 320-232888/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 34 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

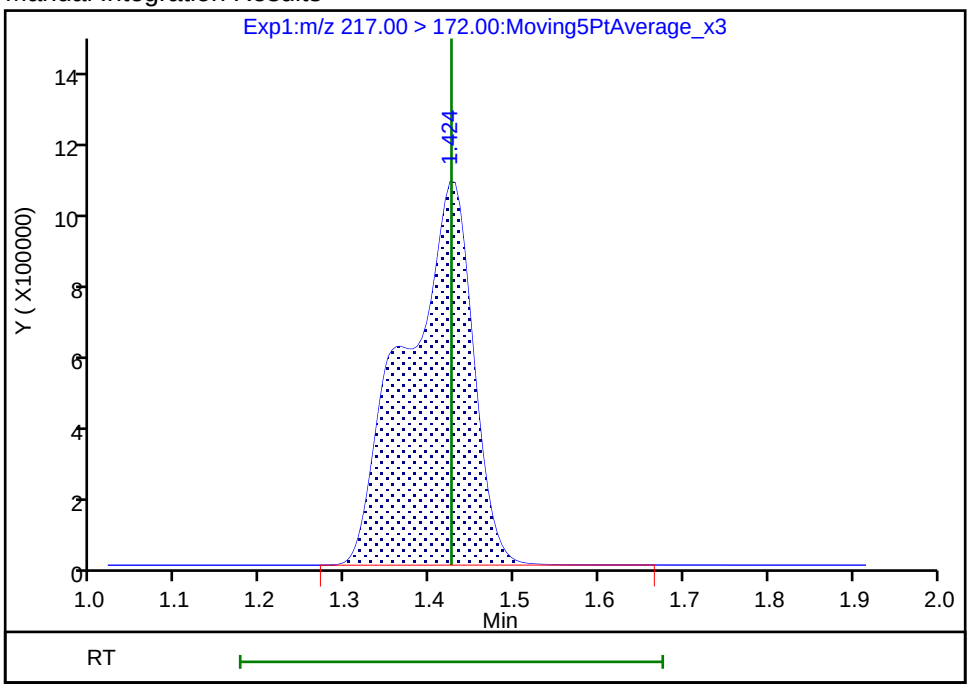
Processing Integration Results

RT: 1.42
Area: 4058637
Amount: 1.410279
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5808400
Amount: 2.018280
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:35:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-232888/2-A

Matrix: Water | Lab File ID: 2018.07.10LLB_049.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:58

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	37.3		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.4		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.9		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	37.4		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.1		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	40.3		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	37.6		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	36.5		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	38.4		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	33.0		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.6		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	35.6		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.8		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	41.0		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.9		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	35.6		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	40.0		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-232888/2-A

Matrix: Water | Lab File ID: 2018.07.10LLB_049.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:58

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		25-150
STL00992	13C4 PFBA	87		25-150
STL00993	13C2 PFHxA	87		25-150
STL00990	13C4 PFOA	90		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	93		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	88		25-150
STL00994	18O2 PFHxS	92		25-150
STL00991	13C4 PFOS	86		25-150
STL01892	13C4-PFHpA	93		25-150
STL01893	13C5 PFPeA	81		25-150
STL02337	13C3-PFBS	81		25-150
STL02116	13C2-PFTeDA	83		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Lims ID: LCS 320-232888/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2018 01:58:48 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-232888/2-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:37:24 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:37:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.430	1.425	0.005	1.004	2287503	0.9313		93.1	1040	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.425	1.425	0.0	0.535	6011686	2.17		86.9	22299	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.712	0.0	1.000	1898755	0.9605		96.0	1505	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.712	0.0	0.643	4149993	2.03		81.1	42213	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.748	0.009	1.005	2692474	0.8907		101	12249	
298.90 > 99.00	1.757	1.748	0.009	1.005	1113942		2.42(1.25-3.74)		9920	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.748	0.0	0.657	92717	1.89		81.4	795	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.950	0.010	1.122	626895	1.00		107	29884	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.004	1.993	0.011	1.000	1887177	0.9723		97.2	4655	
313.00 > 119.00	2.004	1.993	0.011	1.000	172867		10.92(5.03-15.10)		2694	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	1.994	0.010	0.753	4765199	2.17		87.0	53124	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.016	0.011	1.160	2596774	1.00		107	41002	
349.00 > 99.00	2.016	2.016	0.0	1.153	938961		2.77(1.36-4.07)		17689	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.084	0.011	1.000	345360	0.8771		87.7	2647	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.084	0.011	0.787	428204	2.38		95.3	9115	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.308	0.013	1.000	1903794	0.9338		93.4	2520	
363.00 > 169.00	2.321	2.308	0.013	1.000	762187		2.50(1.13-3.40)		5749	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.321	2.308	0.013	0.994	2144744	0.8449		92.9	16062	
399.00 > 99.00	2.334	2.308	0.026	1.000	728623		2.94(1.50-4.49)		4449	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.309	0.012	0.872	4511812	2.32		92.7	48778	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.322	0.012	0.877	5191986	2.17		91.7	53375	
65 Adona										
377.00 > 251.00	2.360	2.347	0.013	0.780	5465286	1.00		100	33782	
377.00 > 85.00	2.360	2.347	0.013	0.780	3296501		1.66(0.84-2.53)		31114	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.637	2.620	0.017	1.000	593835	0.9437		99.5	3313	
D 12 M2-6:2FTS										
429.00 > 81.00	2.637	2.621	0.016	0.991	954050	2.18		91.9	10884	
* 62 13C2-PFOA										
415.00 > 370.00	2.661	2.652	0.009		4997419	2.50			43833	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.661	2.652	0.009	1.000	1994354	0.9786		97.8	710	
413.00 > 169.00	2.661	2.652	0.009	1.000	1050865		1.90(0.84-2.52)		5049	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.669	2.652	0.017	0.882	2015775	1.03		108	25995	
449.00 > 99.00	2.669	2.652	0.017	0.882	507131		3.97(1.94-5.82)		10717	
D 14 13C4 PFOA										
417.00 > 372.00	2.661	2.653	0.008	1.000	4296558	2.25		90.1	43635	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.009	0.017	1.000	1623988	0.9470		102	16846	
499.00 > 99.00	3.026	3.009	0.017	1.000	340908		4.76(2.31-6.93)		7959	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.009	0.017	1.000	1596722	1.01		101	3896	
463.00 > 169.00	3.026	3.009	0.017	1.000	393888		4.05(1.90-5.69)		21328	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.010	0.016	1.137	3674299	2.27		90.7	34210	
D 18 13C4 PFOS										
503.00 > 80.00	3.026	3.010	0.016	1.137	3508543	2.05		85.9	28811	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.214	0.019	1.069	2541620	0.9158		98.3	41585	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.350	0.020	1.000	554847	0.8734		91.2	10566	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.350	0.011	1.111	1143769	0.9588		99.9	17774	
549.00 > 99.00	3.361	3.350	0.011	1.111	436010		2.62(1.33-3.97)		14474	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.350	0.020	1.000	1871618	1.00		99.9	19543	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.351	0.019	1.267	1151689	2.37		99.0	18655	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.351	0.019	1.267	4724039	1.99		79.6	46786	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.359	0.021	1.000	1269953	0.9405		94.1	4956	
513.00 > 169.00	3.380	3.359	0.021	1.000	225555		5.63(2.36-7.09)		4612	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.361	0.019	1.270	3238660	2.32		92.7	32408	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.518	0.011	1.000	696356	0.9743		97.4	4415	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.519	0.010	1.326	1736121	2.11		84.3	18444	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.675	0.012	1.219	939229	0.8892		92.2	22062	
599.00 > 99.00	3.687	3.675	0.012	1.219	323761		2.90(1.39-4.16)		9810	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.685	0.013	1.000	825776	0.9128		91.3	3700	
563.00 > 169.00	3.698	3.685	0.013	1.000	209990		3.93(2.12-6.36)		6282	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.685	0.013	1.000	628788	0.9171		91.7	15366	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.390	2660574	2.27		90.6	46114	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.687	0.011	1.390	1900933	2.34		93.5	13609	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.842	0.013	1.274	4183699	0.9882		105	44048	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.975	0.013	1.000	1173848	0.9596		96.0	1391	
613.00 > 169.00	3.988	3.975	0.013	1.000	281513		4.17(2.13-6.40)		5365	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.977	0.011	1.499	2775273	2.21		88.2	13944	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.252	4.240	0.012	1.066	1122991	0.8241		82.4	1320	
663.00 > 169.00	4.252	4.240	0.012	1.066	366454		3.06(1.25-3.76)		6243	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.490	4.479	0.011	1.000	322800	0.9405		94.1	4023	
713.00 > 219.00	4.490	4.479	0.011	1.000	227938		1.42(0.71-2.13)		5291	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.480	0.010	1.687	3168859	2.07		82.6	12008	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.886	0.010	1.000	2108810	0.9121		91.2	1069	
813.00 > 169.00	4.896	4.886	0.010	1.000	358557		5.88(2.86-8.58)		3574	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.840	5936191	2.09		83.7	10946	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.239	0.008	1.072	2649630	0.9586		95.9	957	
913.00 > 169.00	5.247	5.239	0.008	1.072	322625		8.21(3.83-11.48)		3601	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:37:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d

Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N

Lims ID: LCS 320-232888/2-A

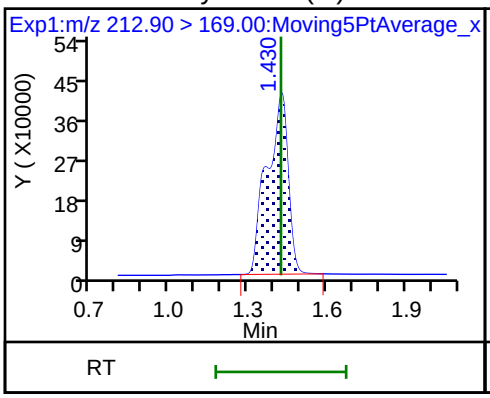
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3

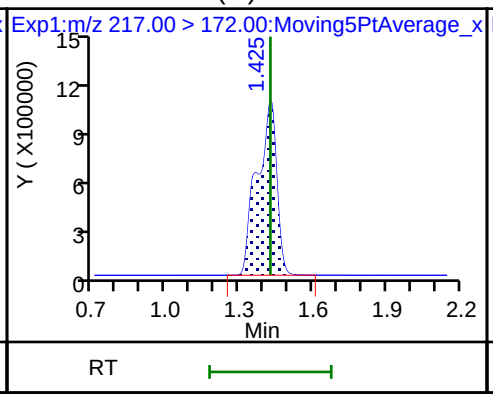
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

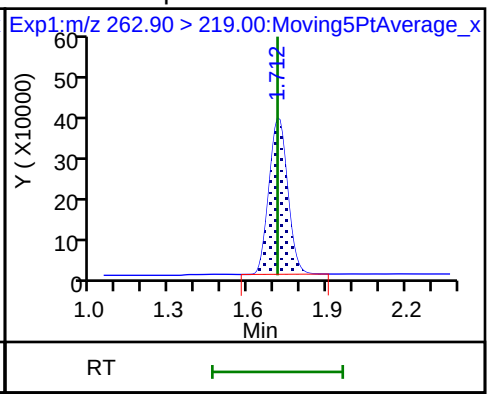
2 Perfluorobutyric acid (M)



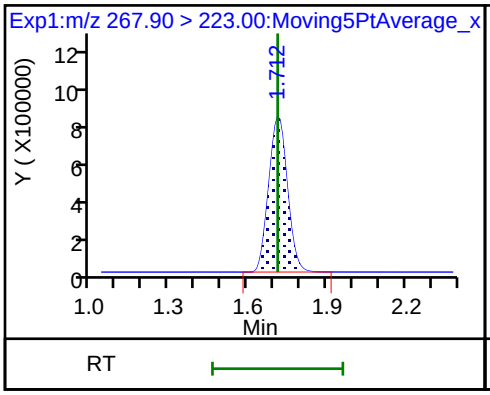
D 1 13C4 PFBA (M)



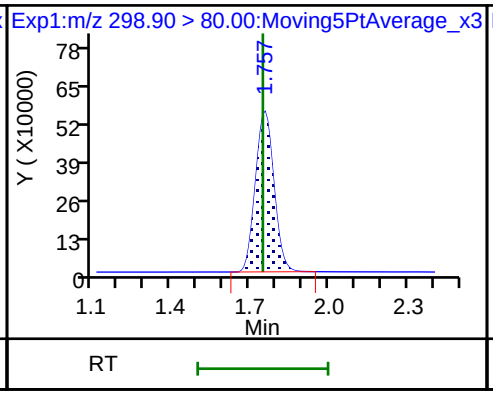
4 Perfluoropentanoic acid



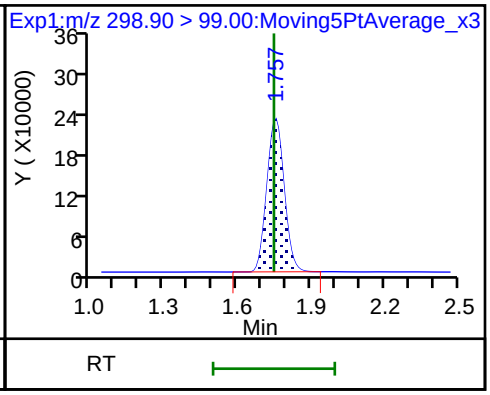
D 3 13C5-PFPeA



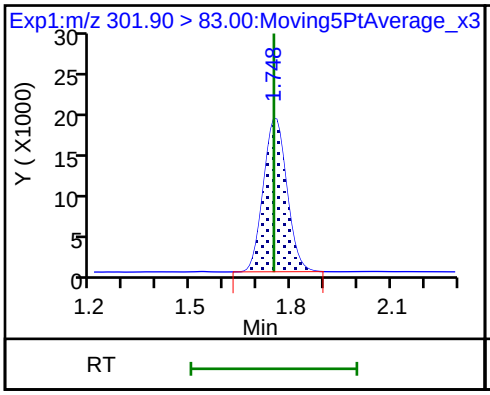
5 Perfluorobutanesulfonic acid



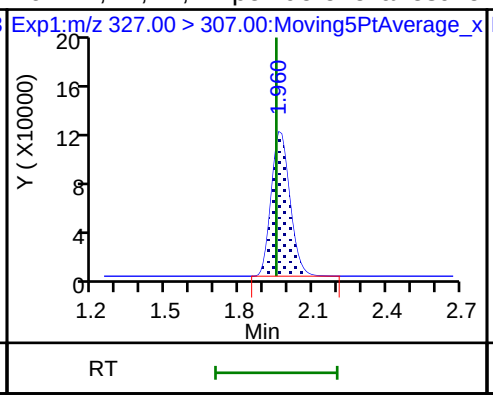
5 Perfluorobutanesulfonic acid



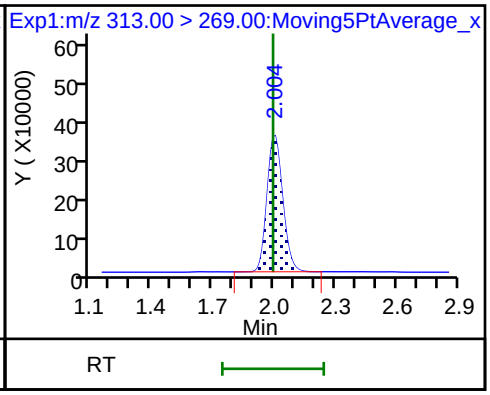
D 47 13C3-PFBS



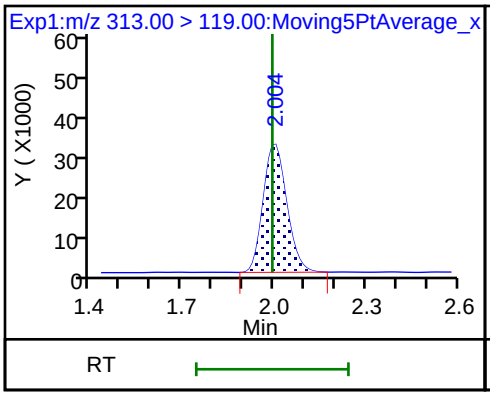
61 1H,1H,2H,2H-perfluorohexanesulfoni



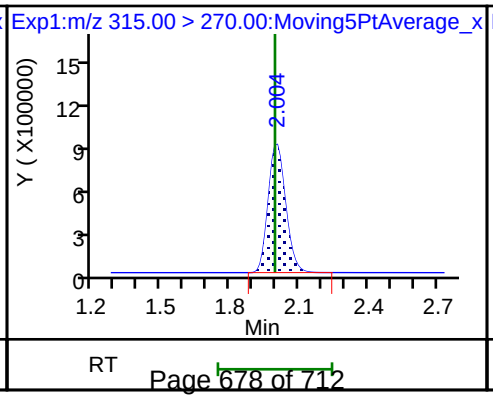
6 Perfluorohexanoic acid



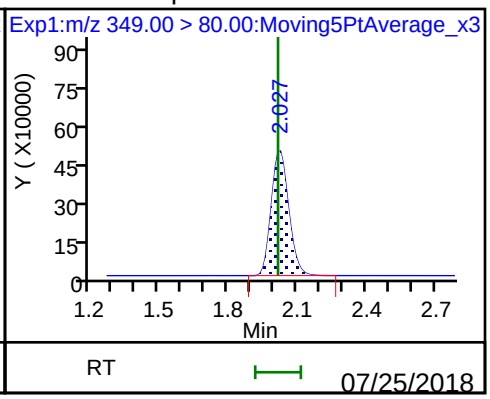
6 Perfluorohexanoic acid



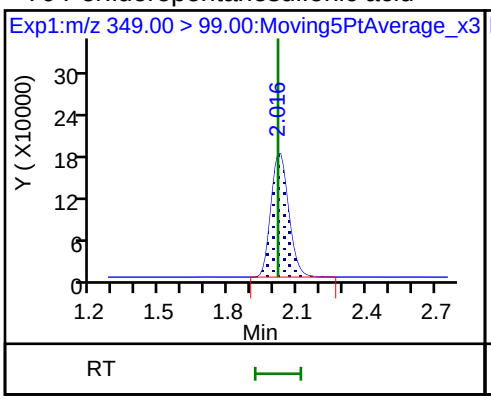
D 7 13C2 PFHxA



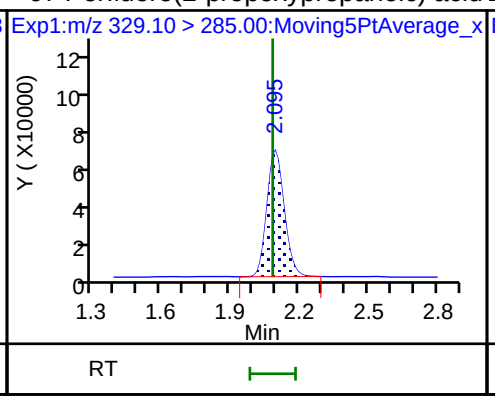
70 Perfluoropentanesulfonic acid



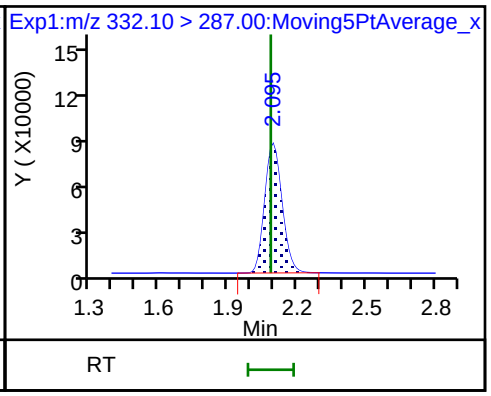
70 Perfluoropentanesulfonic acid



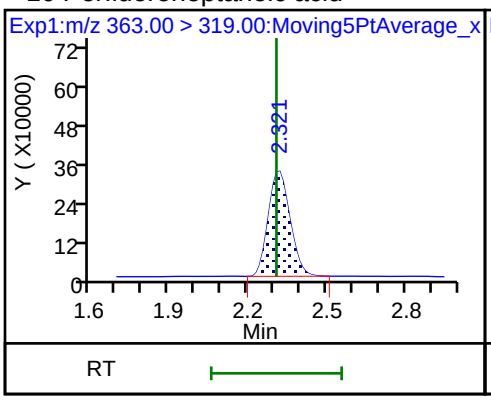
67 Perfluoro(2-propoxypropanoic) acid



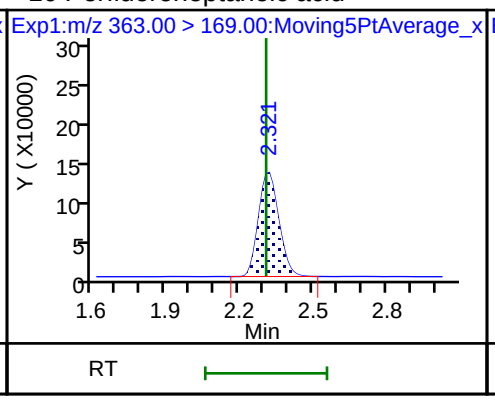
D 64 13C3 HFPO-DA



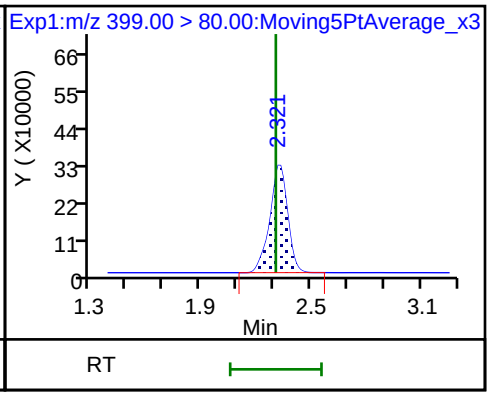
10 Perfluoroheptanoic acid



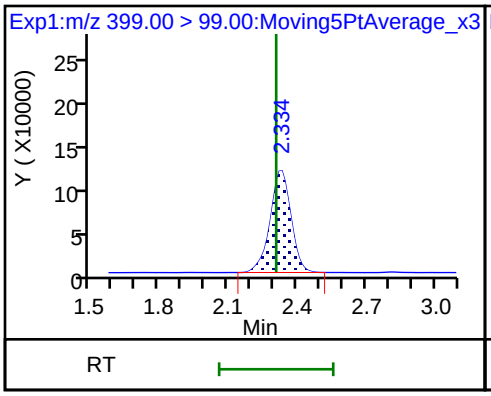
10 Perfluoroheptanoic acid



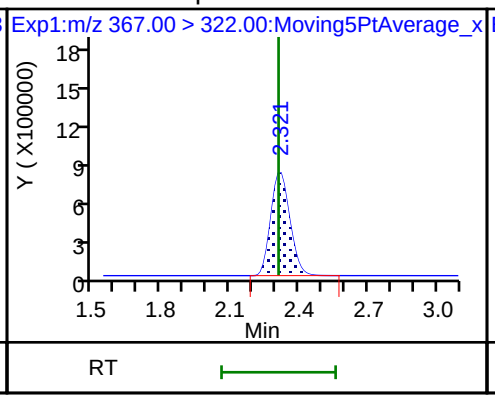
8 Perfluorohexanesulfonic acid



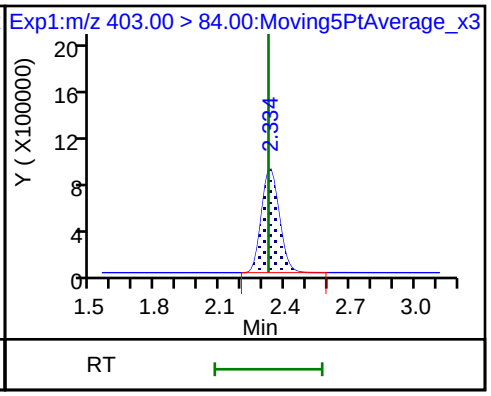
8 Perfluorohexanesulfonic acid



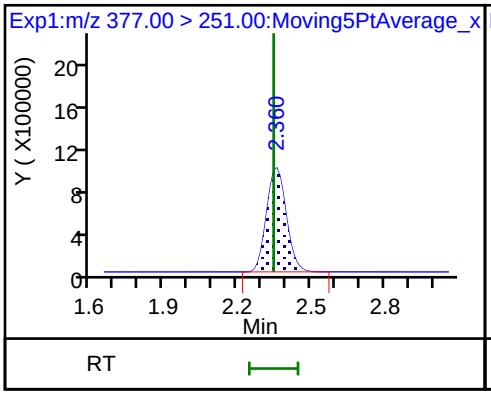
D 9 13C4-PFHpA



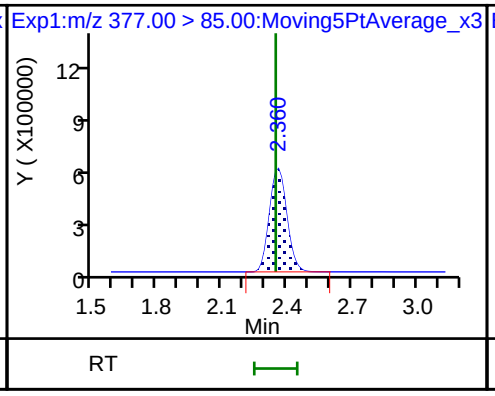
D 11 18O2 PFHxS



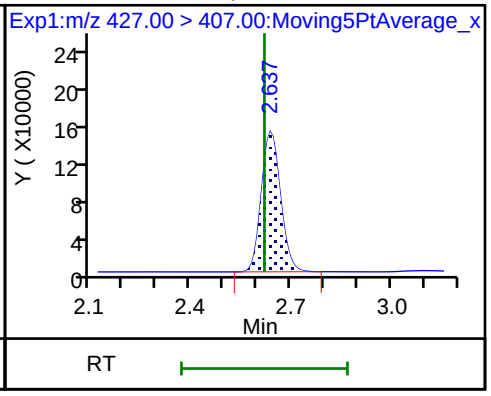
65 Adona



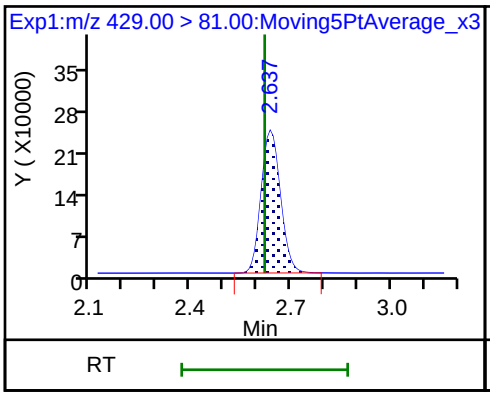
65 Adona



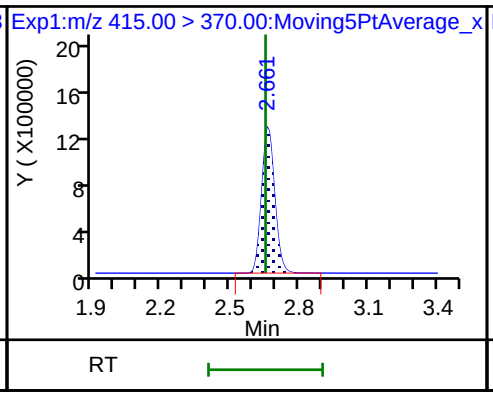
13 1H,1H,2H,2H-perfluorooctanesulfoni



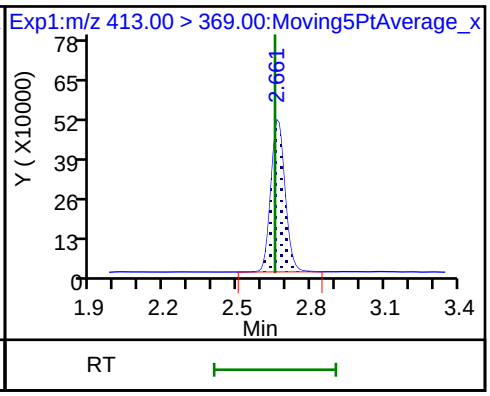
D 12 M2-6:2FTS



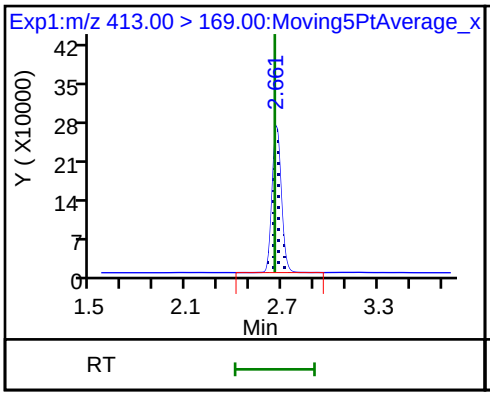
* 62 13C2-PFOA



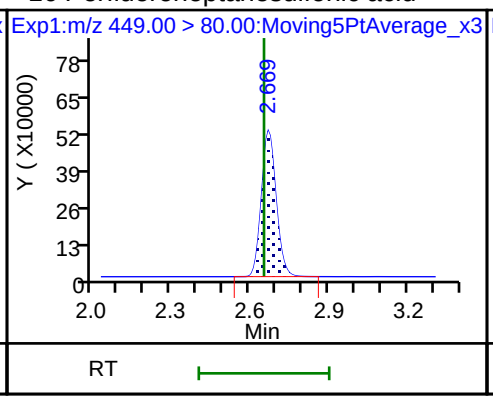
15 Perfluorooctanoic acid



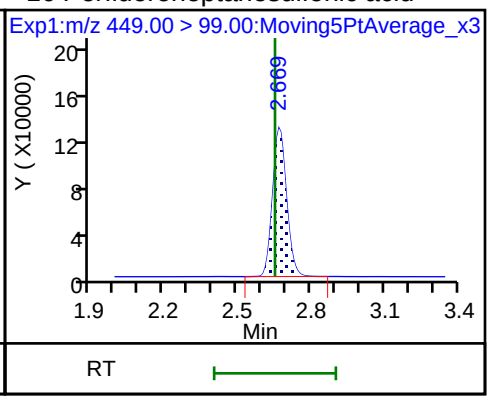
15 Perfluorooctanoic acid



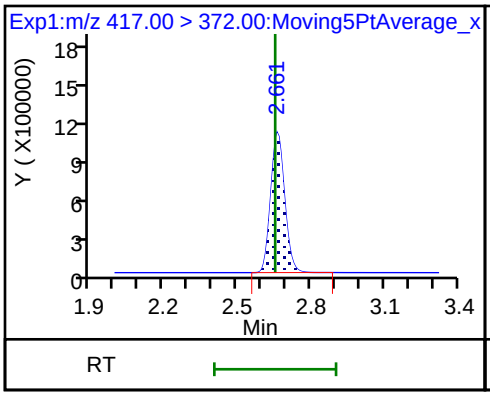
16 Perfluoroheptanesulfonic acid



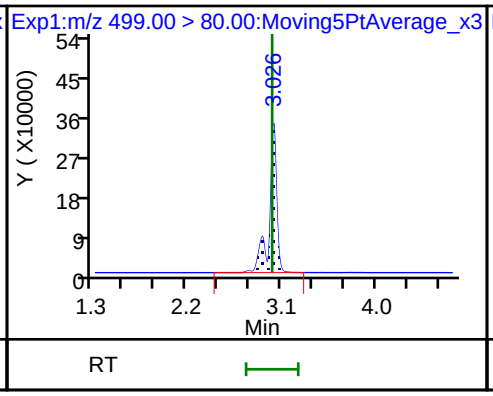
16 Perfluoroheptanesulfonic acid



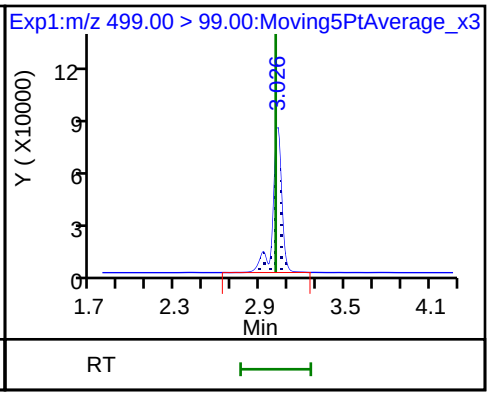
D 14 13C4 PFOA



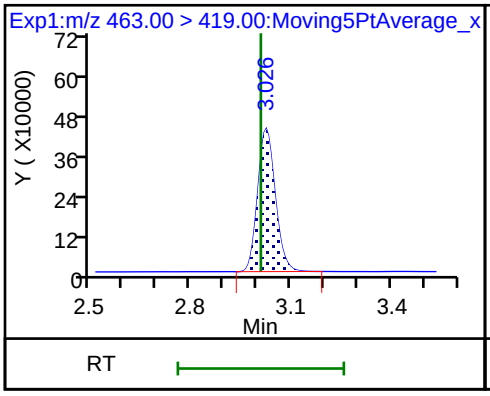
17 Perfluorooctane sulfonic acid



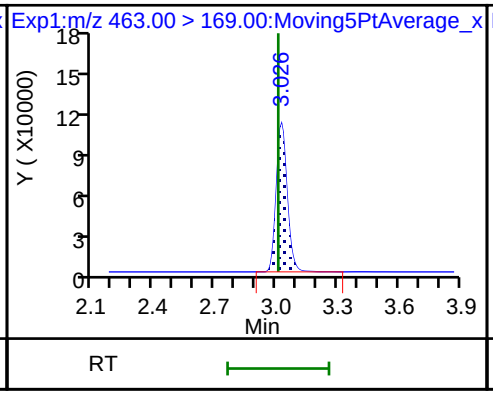
17 Perfluorooctane sulfonic acid



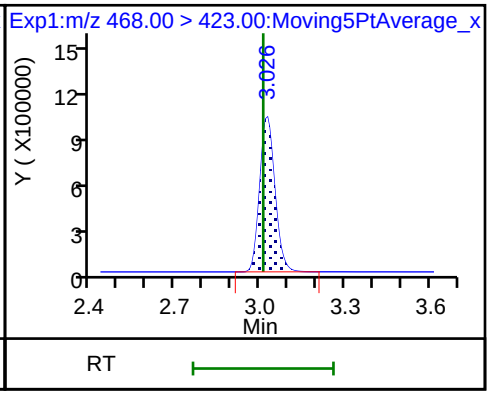
20 Perfluorononanoic acid



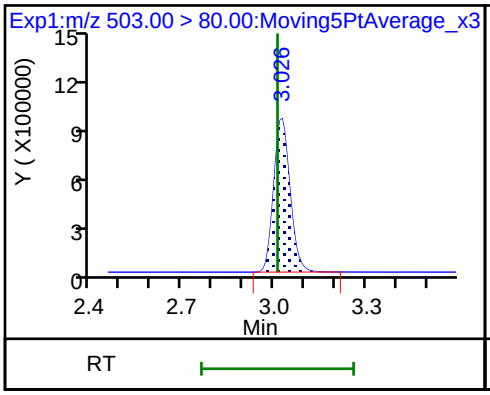
20 Perfluorononanoic acid



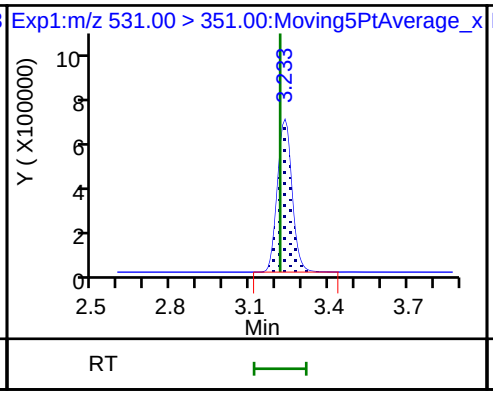
D 19 13C5 PFNA



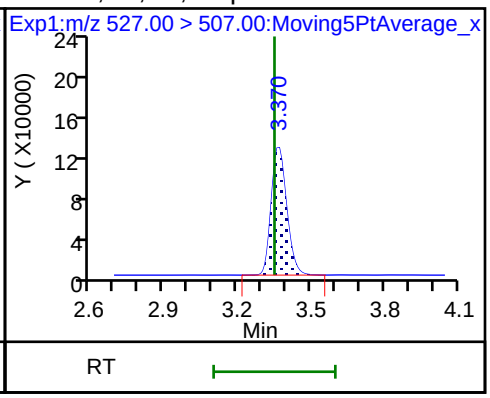
D 18 13C4 PFOS



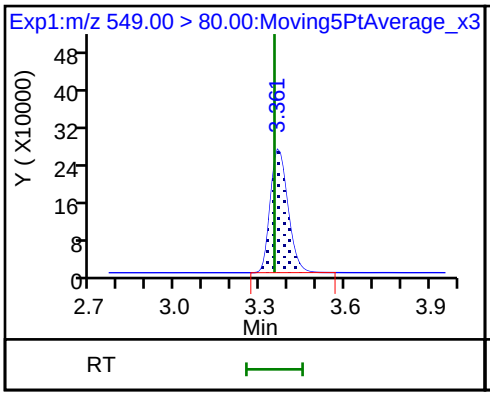
69 9-Chlorohexadecafluoro-3-oxanonane



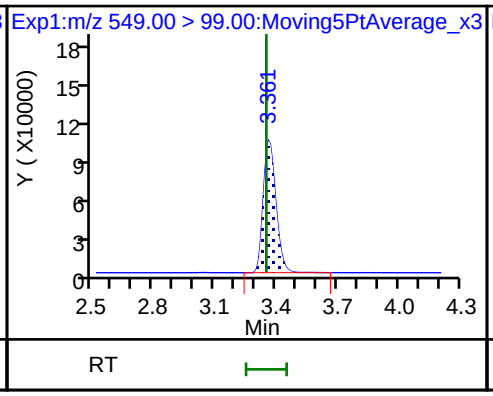
25 1H,1H,2H,2H-perfluorodecanesulfoni



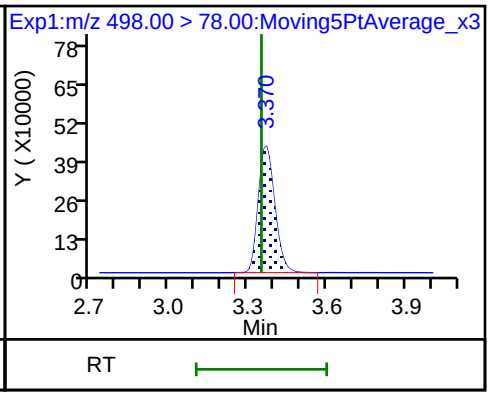
68 Perfluorononanesulfonic acid



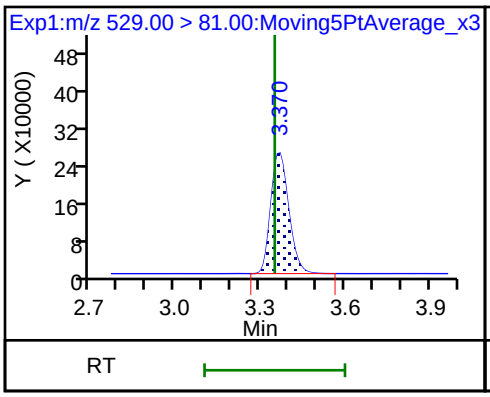
68 Perfluorononanesulfonic acid



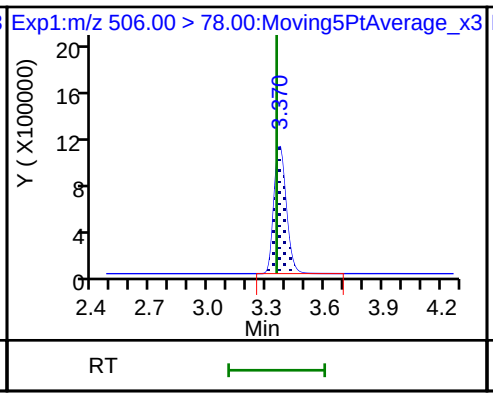
22 Perfluorooctane Sulfonamide



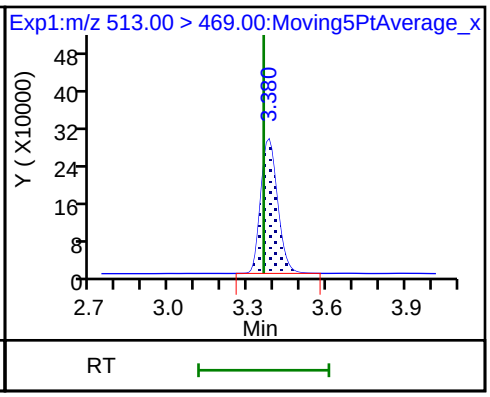
D 26 M2-8:2FTS



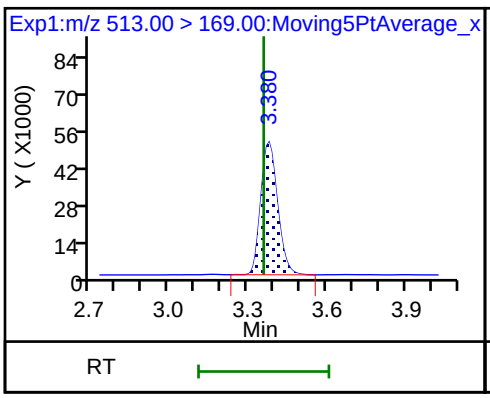
D 21 13C8 FOSA



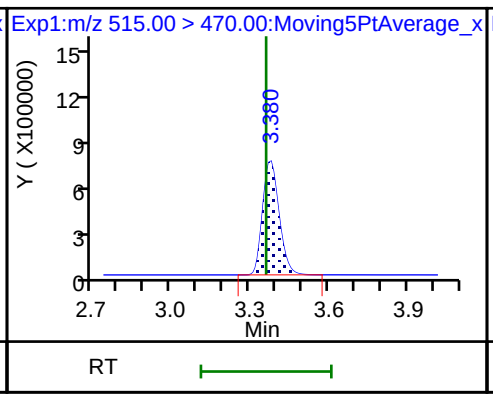
24 Perfluorodecanoic acid



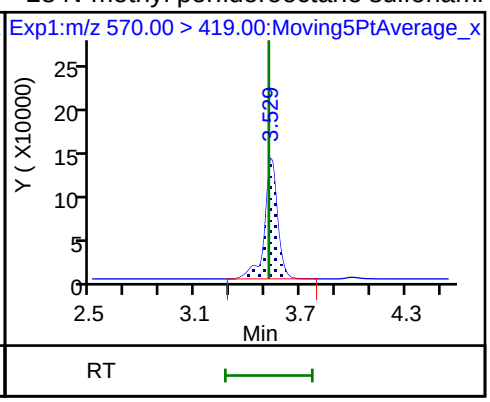
24 Perfluorodecanoic acid



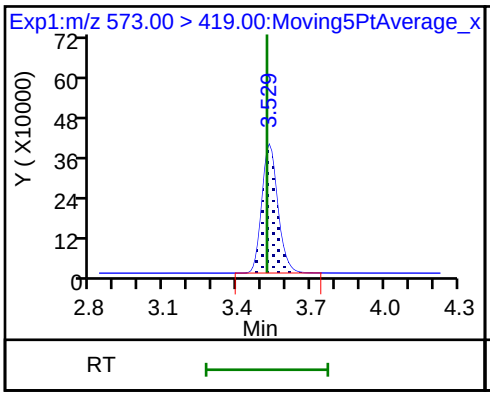
D 23 13C2 PFDA



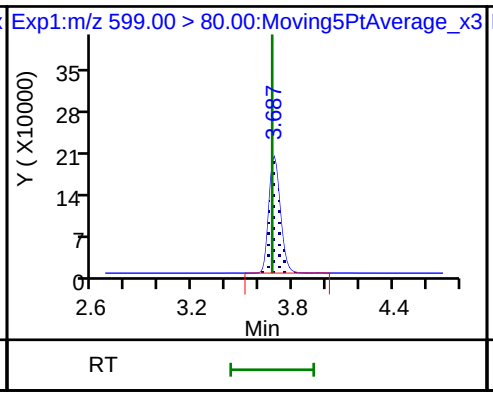
28 N-methyl perfluorooctane sulfonami



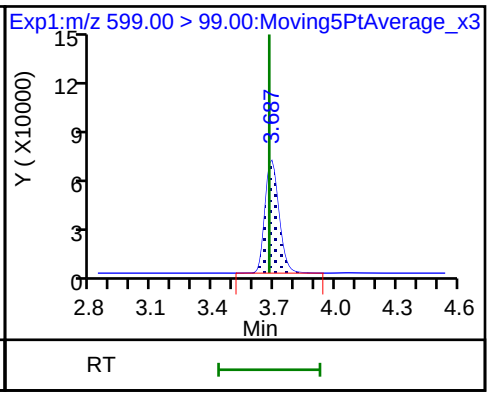
D 27 d3-NMeFOSAA



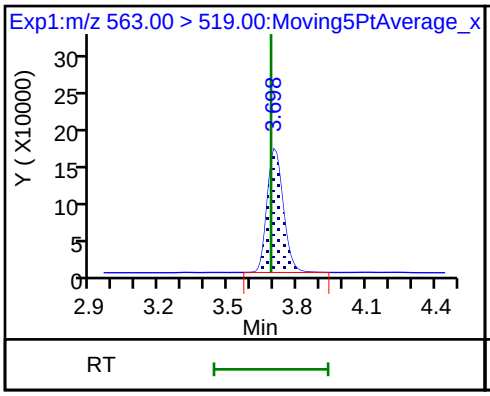
29 Perfluorodecane Sulfonic acid



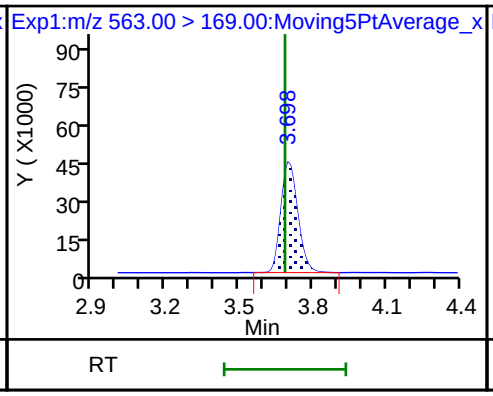
29 Perfluorodecane Sulfonic acid



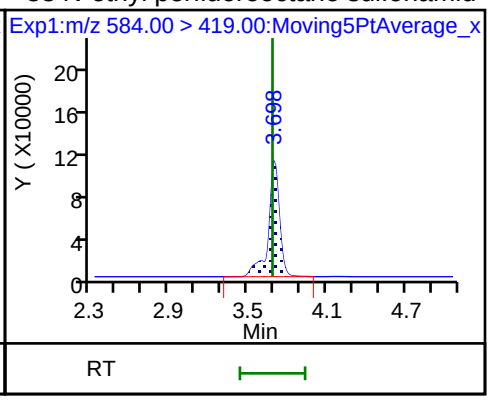
31 Perfluoroundecanoic acid



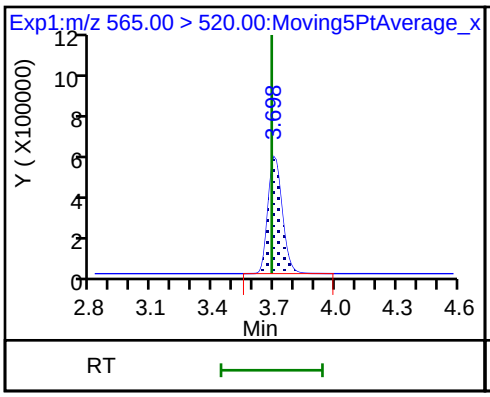
31 Perfluoroundecanoic acid



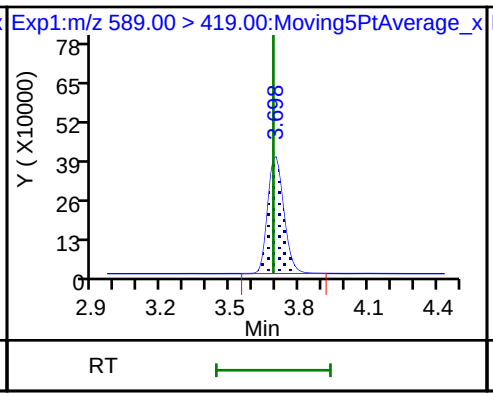
33 N-ethyl perfluorooctane sulfonamid



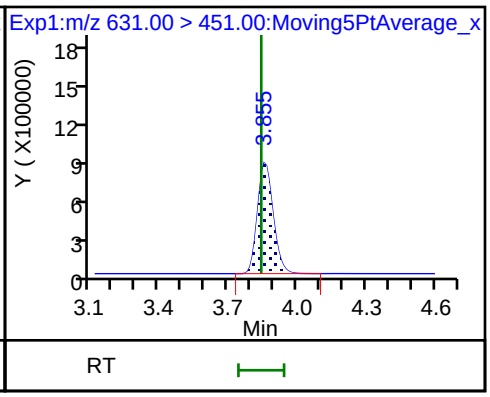
D 30 13C2 PFUnA



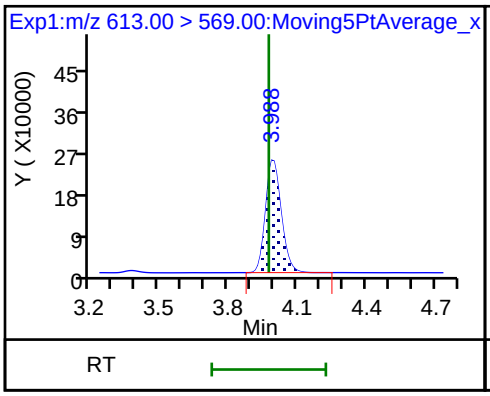
D 32 d5-NEtFOSAA



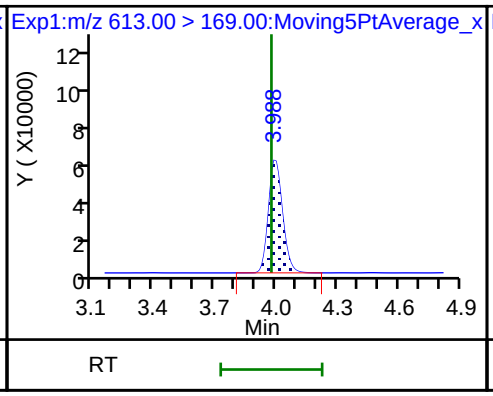
66 11-Chloroeicosafluoro-3-oxaundecan



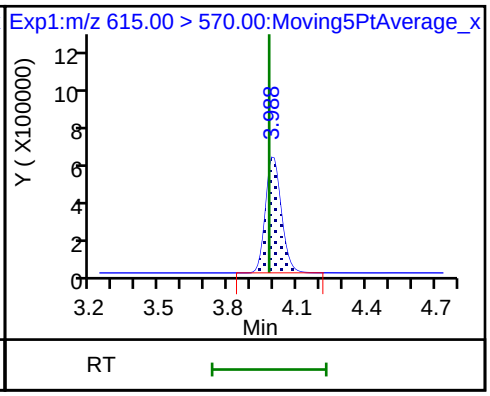
37 Perfluorododecanoic acid



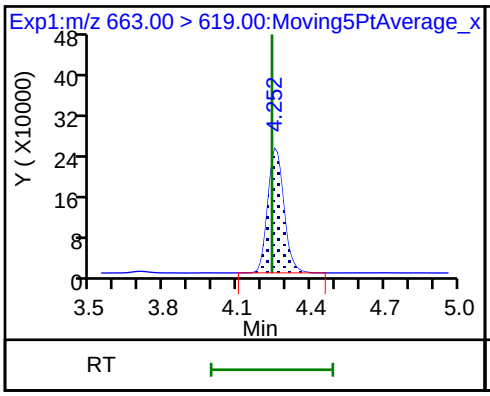
37 Perfluorododecanoic acid



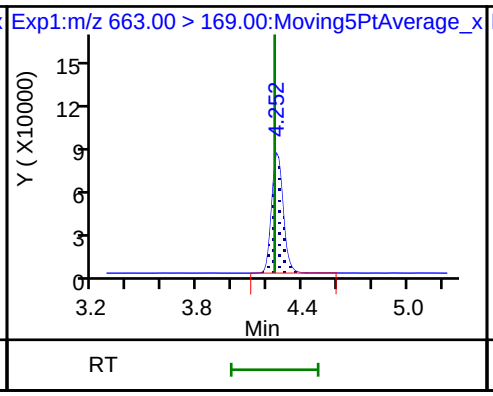
D 36 13C2 PFDoA



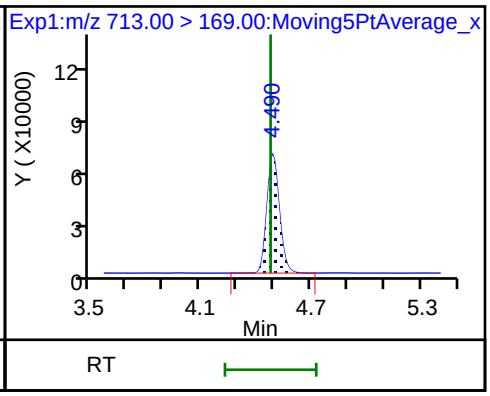
41 Perfluorotridecanoic acid



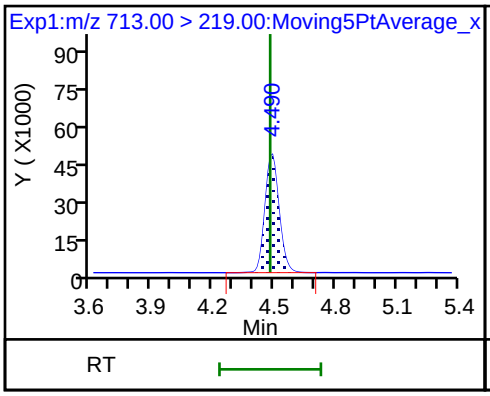
41 Perfluorotridecanoic acid



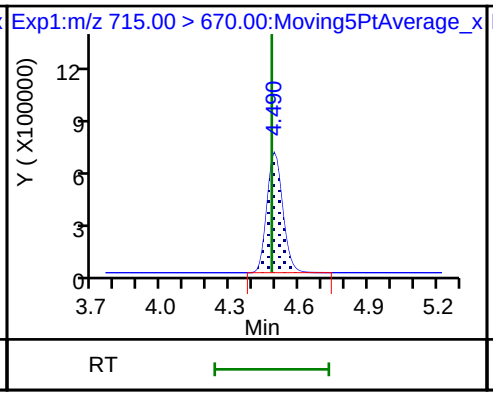
42 Perfluorotetradecanoic acid



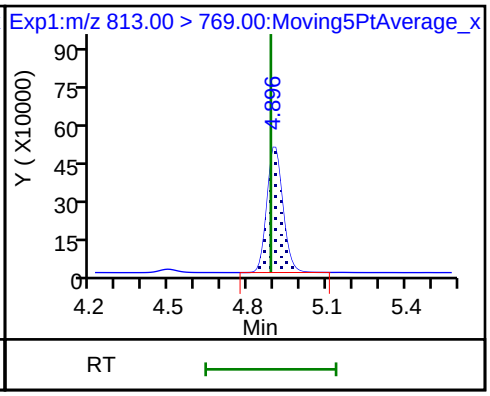
42 Perfluorotetradecanoic acid



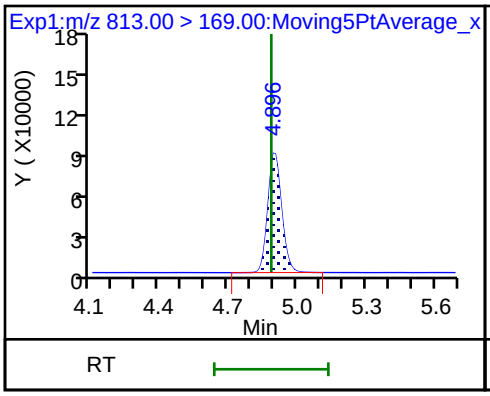
D 43 13C2-PFTeDA



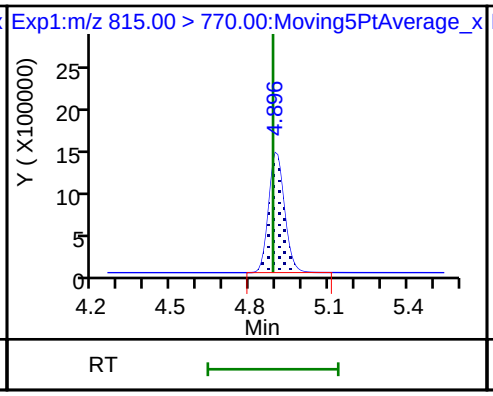
45 Perfluorohexadecanoic acid



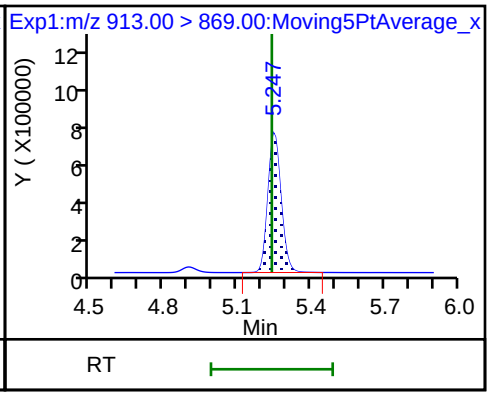
45 Perfluorohexadecanoic acid



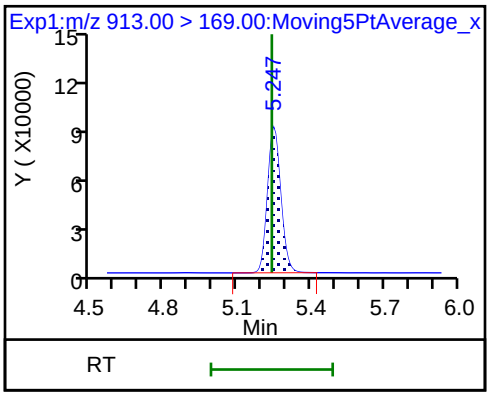
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

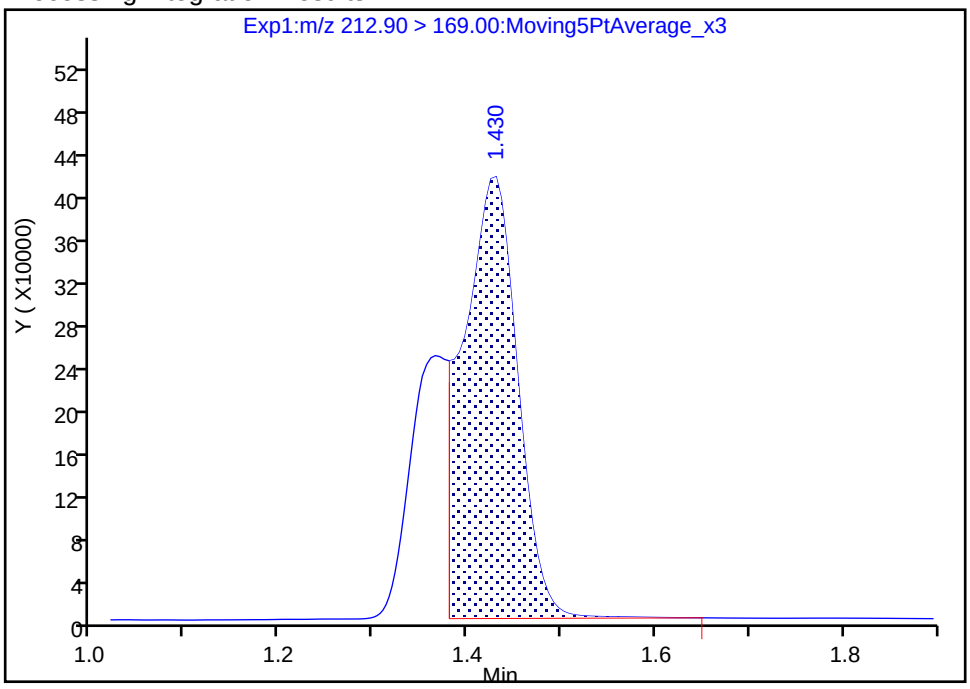
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N
Lims ID: LCS 320-232888/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

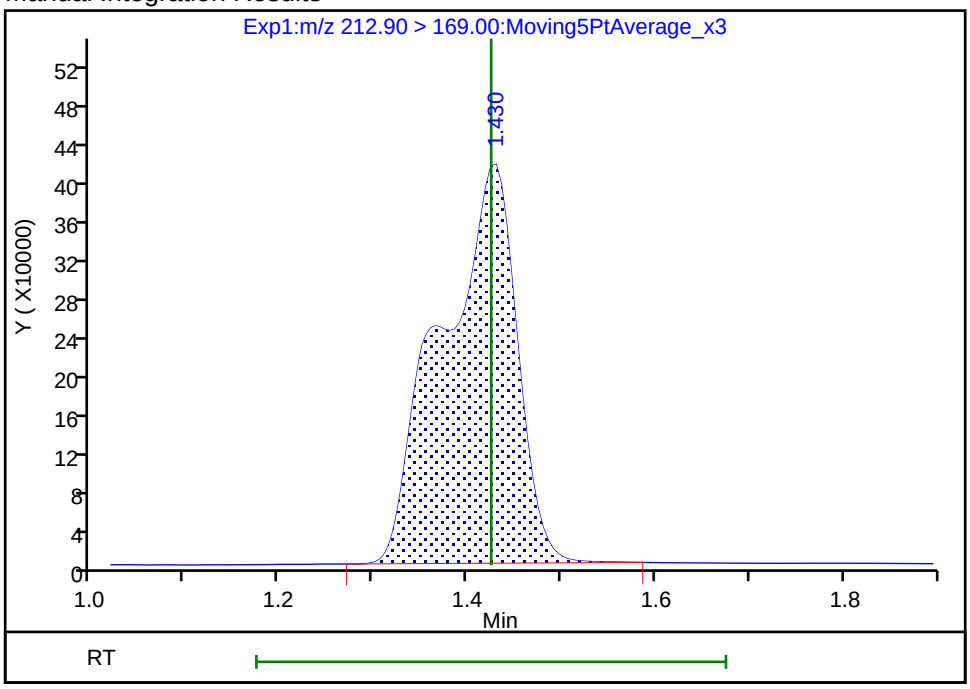
Processing Integration Results

RT: 1.43
Area: 1623864
Amount: 0.661127
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 2287503
Amount: 0.931315
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

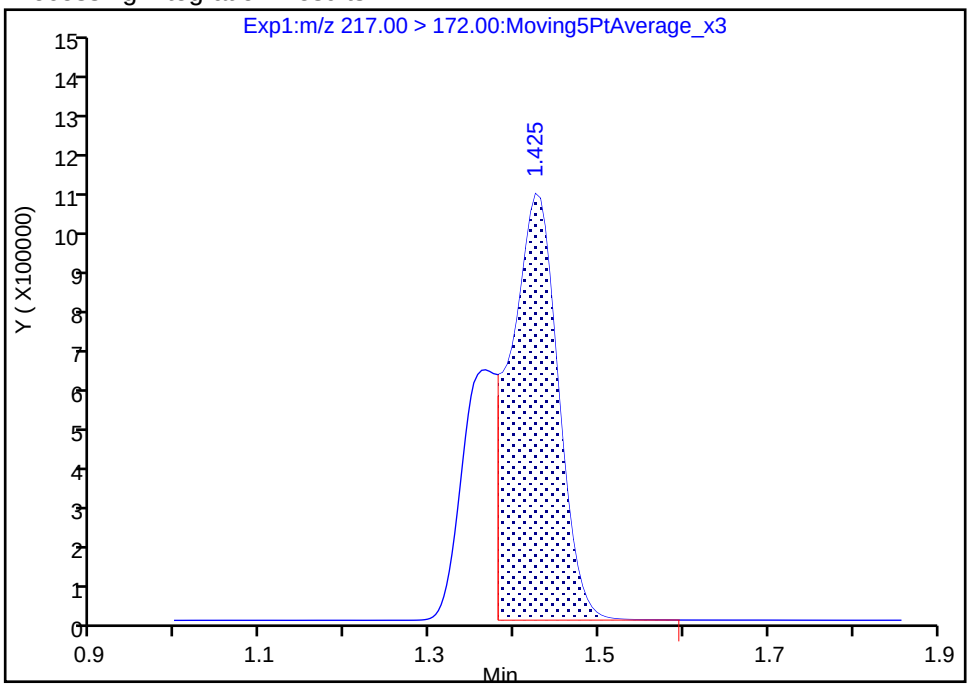
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N
Lims ID: LCS 320-232888/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

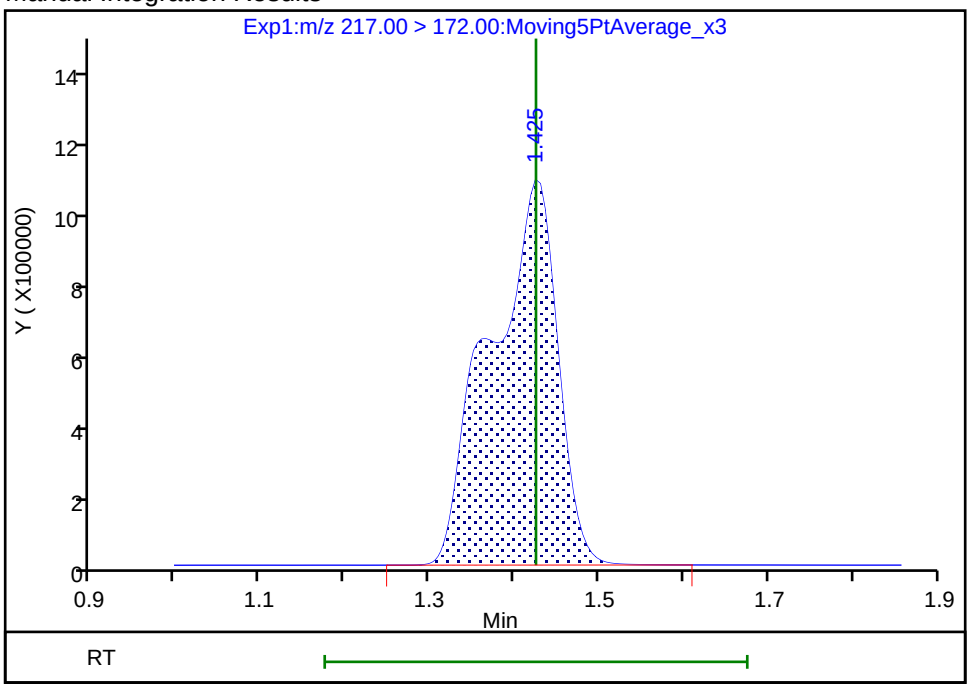
Processing Integration Results

RT: 1.42
Area: 4204185
Amount: 1.519375
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 6011686
Amount: 2.172598
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:36:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-232888/3-A

Matrix: Water | Lab File ID: 2018.07.10LLB_050.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 02:06

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	36.7		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	36.2		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.0		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	38.8		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.9		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	39.1		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	38.9		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.3		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	38.1		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	33.1		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.1		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.3		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.8		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	38.1		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.0		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.3		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	38.0		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-232888/3-A

Matrix: Water | Lab File ID: 2018.07.10LLB_050.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 02:06

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	77		25-150
STL00992	13C4 PFBA	83		25-150
STL00993	13C2 PFHxA	84		25-150
STL00990	13C4 PFOA	89		25-150
STL00995	13C5 PFNA	89		25-150
STL00996	13C2 PFDA	90		25-150
STL00997	13C2 PFUnA	92		25-150
STL00998	13C2 PFDoA	85		25-150
STL00994	18O2 PFHxS	87		25-150
STL00991	13C4 PFOS	86		25-150
STL01892	13C4-PFHpA	86		25-150
STL01893	13C5 PFPeA	82		25-150
STL02337	13C3-PFBS	78		25-150
STL02116	13C2-PFTeDA	80		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Lims ID: LCSD 320-232888/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jul-2018 02:06:36 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-232888/3-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:38:09 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:38:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.430	1.425	0.005	1.004	2126444	0.9164		91.6	985	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.425	-0.001	0.536	5679455	2.07		82.7	29406	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.711	1.712	-0.001	1.000	1787011	0.9045		90.5	1478	
D 3 13C5-PFPeA										
267.90 > 223.00	1.711	1.712	-0.001	0.643	4147395	2.04		81.5	37625	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.748	0.008	1.000	2462007	0.8572		97.0	11567	
298.90 > 99.00	1.756	1.748	0.008	1.000	1052201		2.34(1.25-3.74)		11148	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.748	0.008	0.660	88088	1.81		77.9	766	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.959	1.950	0.009	1.116	585241	0.9850		105	27827	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.993	0.010	1.000	1773205	0.9506		95.1	3842	
313.00 > 119.00	2.003	1.993	0.010	1.000	161188		11.00(5.03-15.10)		2582	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	1.994	0.009	0.753	4579910	2.10		84.1	57409	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.016	0.009	1.154	2478221	1.01		108	33664	
349.00 > 99.00	2.025	2.016	0.009	1.154	840207		2.95(1.36-4.07)		14314	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.084	0.009	1.000	307660	0.9451		94.5	2625	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.084	0.009	0.787	354002	1.98		79.3	5573	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.308	0.011	1.000	1817199	0.9704		97.0	2763	
363.00 > 169.00	2.319	2.308	0.011	1.000	699215		2.60(1.13-3.40)		5527	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.308	0.024	1.000	1968588	0.8197		90.1	10116	
399.00 > 99.00	2.332	2.308	0.024	1.000	650403		3.03(1.50-4.49)		4421	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.309	0.010	0.872	4144074	2.14		85.8	47774	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.322	0.010	0.877	4912413	2.07		87.3	40786	
65 Adona										
377.00 > 251.00	2.358	2.347	0.011	0.781	5056046	0.9328		93.3	37720	
377.00 > 85.00	2.358	2.347	0.011	0.781	3037697		1.66(0.84-2.53)		32102	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.636	2.620	0.016	1.000	572249	0.9237		97.4	3499	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.621	0.015	0.991	939232	2.16		91.1	17924	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.652	0.007		4964090	2.50			47645	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.652	0.007	1.000	1993087	1.00		99.7	678	
413.00 > 169.00	2.659	2.652	0.007	1.000	959619		2.08(0.84-2.52)		4830	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.652	0.015	0.884	1867499	0.9533		100	19030	
449.00 > 99.00	2.667	2.652	0.015	0.884	483037		3.87(1.94-5.82)		11203	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.653	0.006	1.000	4209793	2.22		88.9	41221	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.009	0.017	1.002	1493331	0.8741		94.2	15882	
499.00 > 99.00	3.019	3.009	0.010	1.000	332279		4.49(2.31-6.93)		8762	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.009	0.017	1.000	1505305	0.9768		97.7	3570	
463.00 > 169.00	3.026	3.009	0.017	1.000	367254		4.10(1.90-5.69)		10868	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.010	0.016	1.138	3575008	2.22		88.8	38324	
D 18 13C4 PFOS										
503.00 > 80.00	3.019	3.010	0.009	1.135	3495467	2.06		86.1	22505	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.214	0.019	1.071	2455235	0.8880		95.3	42959	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.361	3.350	0.011	0.997	478214	0.8473		88.4	13454	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.350	0.011	1.113	1032259	0.8685		90.5	12021	
549.00 > 99.00	3.361	3.350	0.011	1.113	388153		2.66(1.33-3.97)		9037	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.350	0.020	1.003	1703788	0.9497		95.0	20310	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.351	0.019	1.267	1023108	2.12		88.5	12149	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.351	0.010	1.264	4522432	1.92		76.8	64583	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.379	3.359	0.020	1.000	1267831	0.9730		97.3	5067	
513.00 > 169.00	3.370	3.359	0.011	0.997	220559		5.75(2.36-7.09)		6174	
D 23 13C2 PFDA										
515.00 > 470.00	3.379	3.361	0.018	1.271	3125360	2.25		90.0	64775	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.518	0.011	1.000	630224	0.8685		86.9	3880	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.519	0.010	1.327	1762647	2.15		86.2	19709	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.675	0.012	1.221	901544	0.8567		88.9	17222	
599.00 > 99.00	3.687	3.675	0.012	1.221	307194		2.93(1.39-4.16)		10742	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.685	0.013	1.000	803786	0.8825		88.2	4921	
563.00 > 169.00	3.698	3.685	0.013	1.000	193367		4.16(2.12-6.36)		5009	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.685	0.013	1.000	568994	0.9208		92.1	9789	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.390	2678627	2.30		91.9	31162	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.687	0.011	1.390	1713367	2.12		84.8	12103	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.842	0.013	1.277	3841116	0.9106		96.7	38677	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.975	0.013	1.000	1111904	0.9522		95.2	1490	
613.00 > 169.00	3.988	3.975	0.013	1.000	267403		4.16(2.13-6.40)		7057	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.977	0.011	1.500	2649195	2.12		84.8	14107	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.252	4.240	0.012	1.066	1075576	0.8269		82.7	1195	
663.00 > 169.00	4.252	4.240	0.012	1.066	334887		3.21(1.25-3.76)		5287	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.490	4.479	0.011	1.000	313481	0.9534		95.3	5523	
713.00 > 219.00	4.490	4.479	0.011	1.000	216284		1.45(0.71-2.13)		6397	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.480	0.010	1.688	3035832	1.99		79.7	12129	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.886	0.010	1.000	2094639	0.8975		89.8	1106	
813.00 > 169.00	4.896	4.886	0.010	1.000	349098		6.00(2.86-8.58)		3336	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.841	5989620	2.12		85.0	12843	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.239	0.008	1.072	2632928	0.9441		94.4	916	
913.00 > 169.00	5.247	5.239	0.008	1.072	317231		8.30(3.83-11.48)		3714	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:38:10 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d

Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N

Lims ID: LCSD 320-232888/3-A

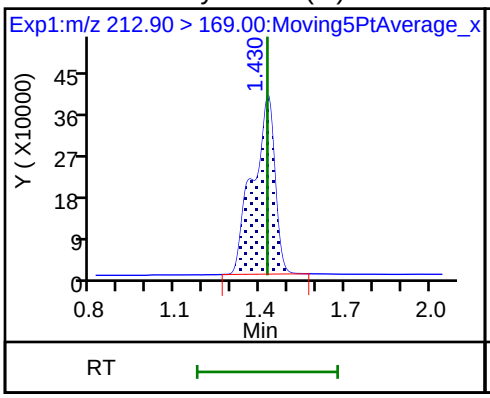
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4

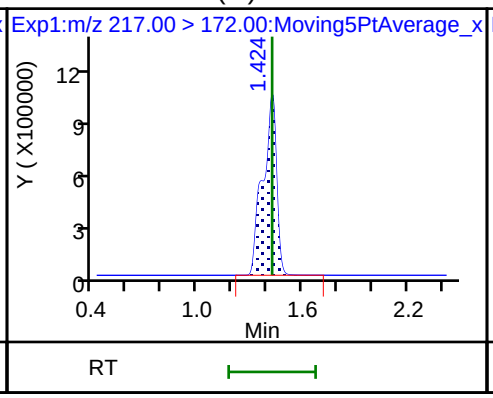
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

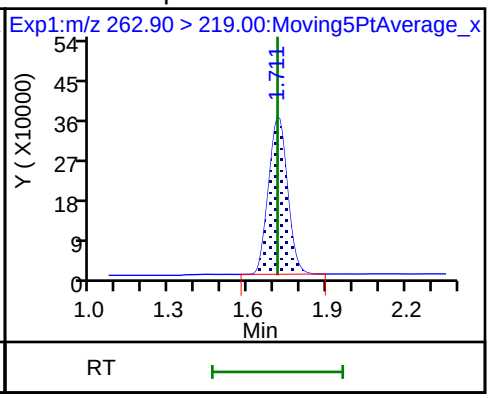
2 Perfluorobutyric acid (M)



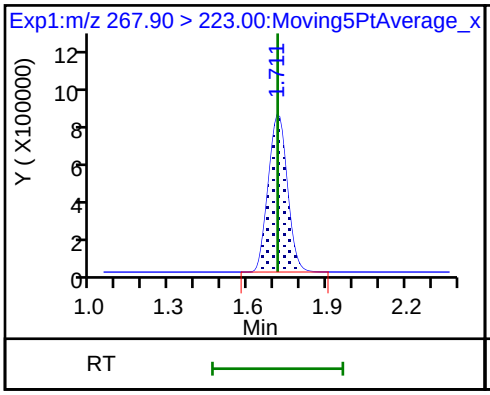
D 1 13C4 PFBA (M)



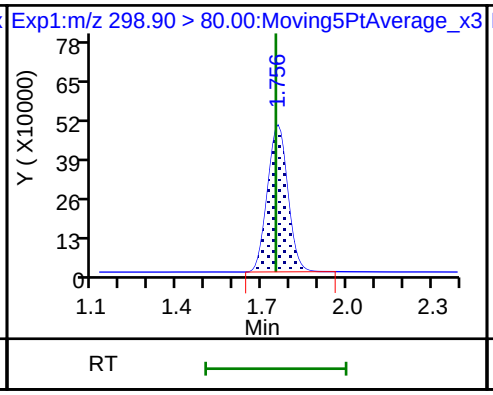
4 Perfluoropentanoic acid



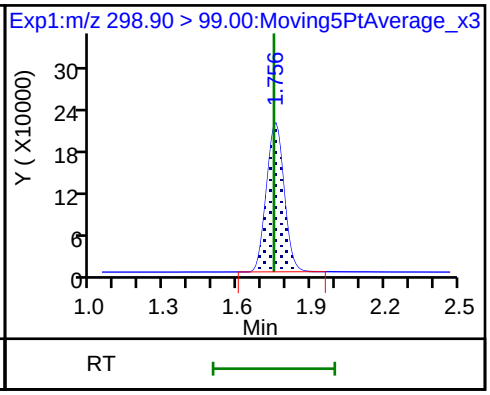
D 3 13C5-PFPeA



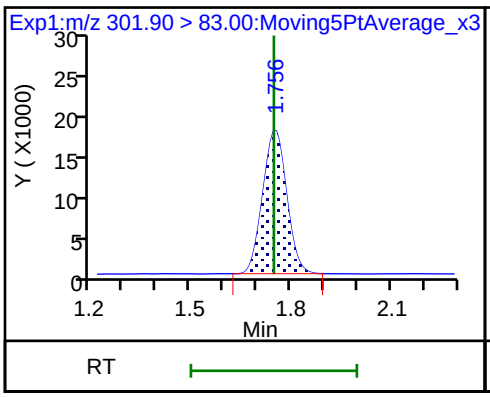
5 Perfluorobutanesulfonic acid



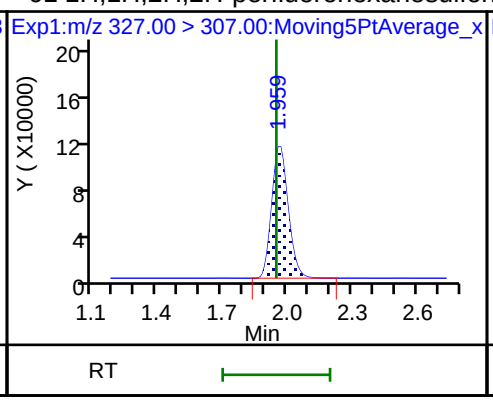
5 Perfluorobutanesulfonic acid



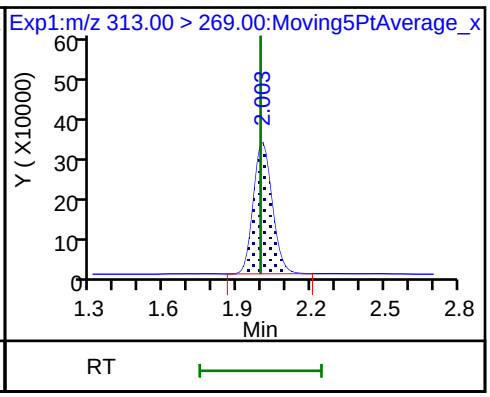
D 47 13C3-PFBS



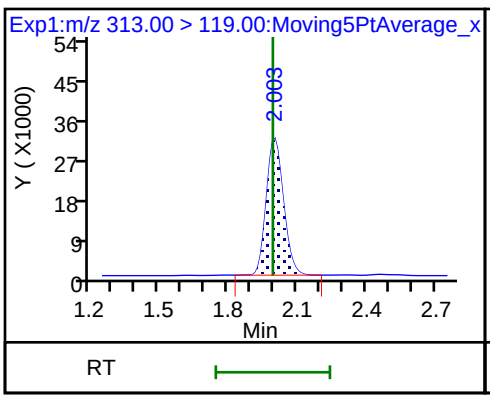
61 1H,1H,2H,2H-perfluorohexanesulfoni



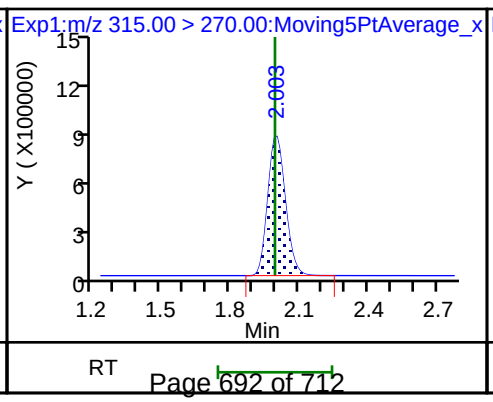
6 Perfluorohexanoic acid



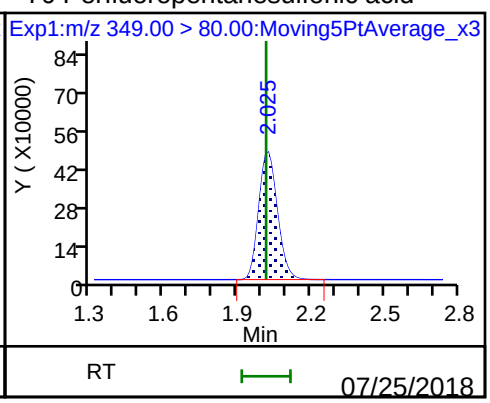
6 Perfluorohexanoic acid



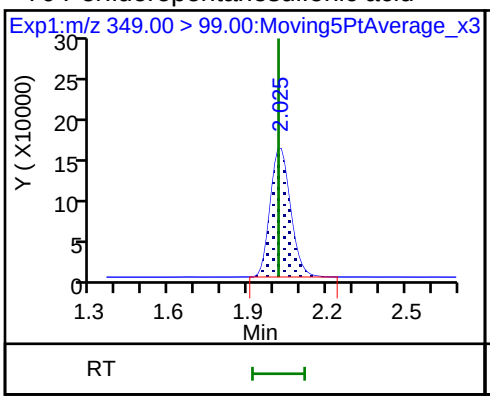
D 7 13C2 PFHxA



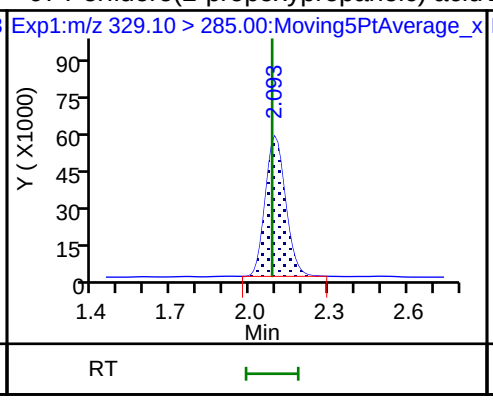
70 Perfluoropentanesulfonic acid



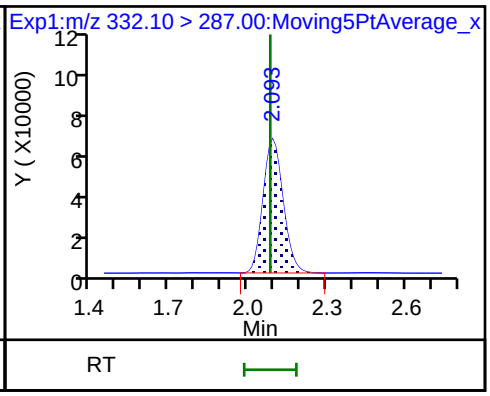
70 Perfluoropentanesulfonic acid



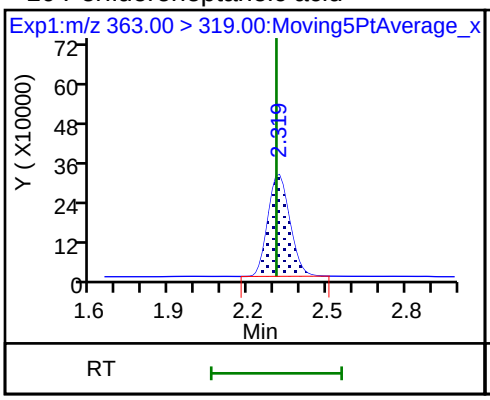
67 Perfluoro(2-propoxypropanoic) acid



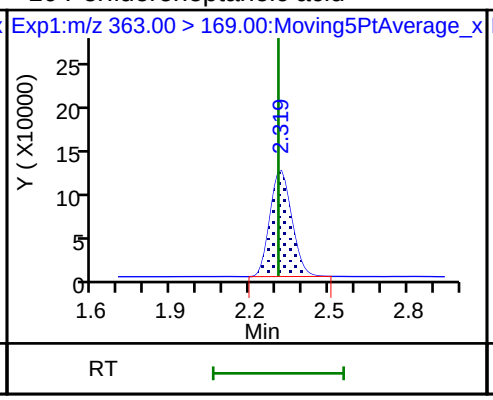
D 64 13C3 HFPO-DA



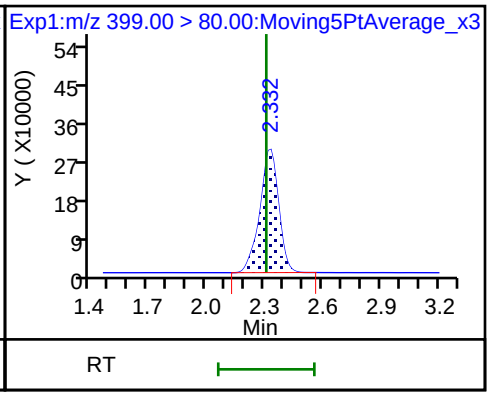
10 Perfluoroheptanoic acid



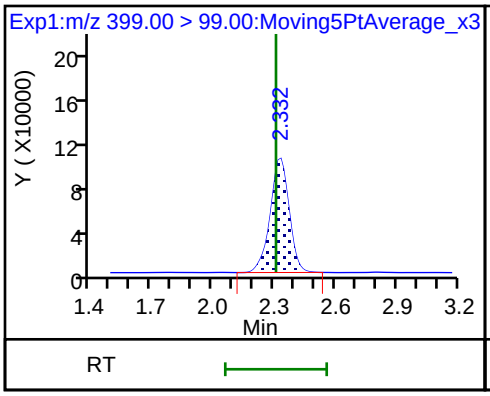
10 Perfluoroheptanoic acid



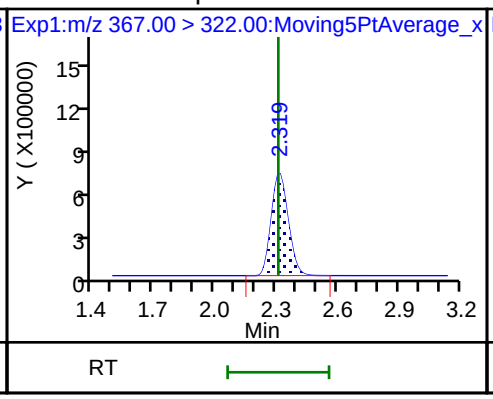
8 Perfluorohexanesulfonic acid



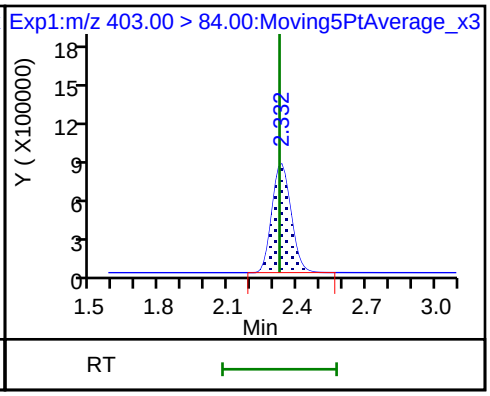
8 Perfluorohexanesulfonic acid



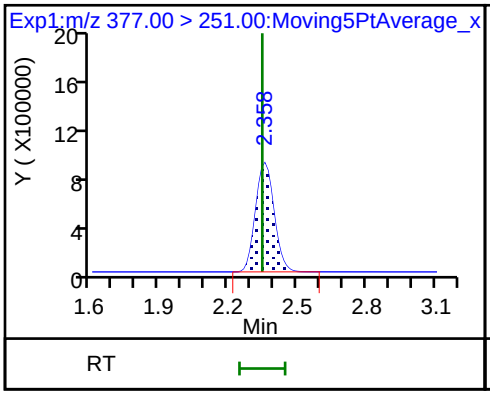
D 9 13C4-PFHpA



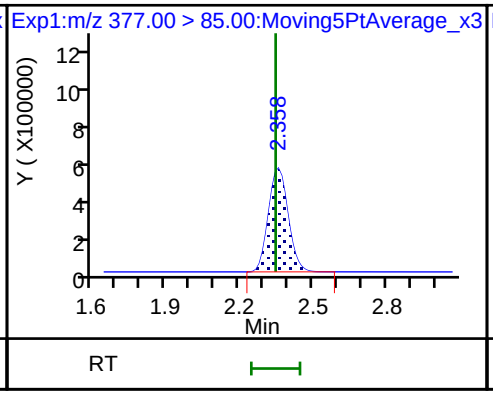
D 11 18O2 PFHxS



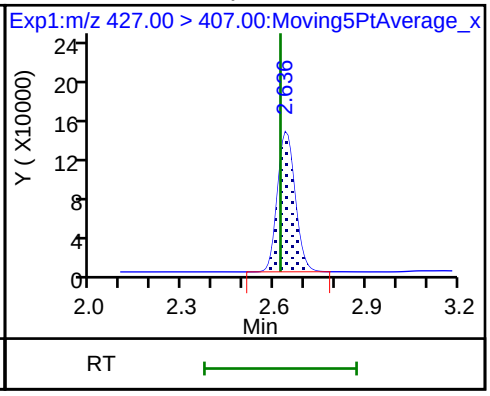
65 Adona



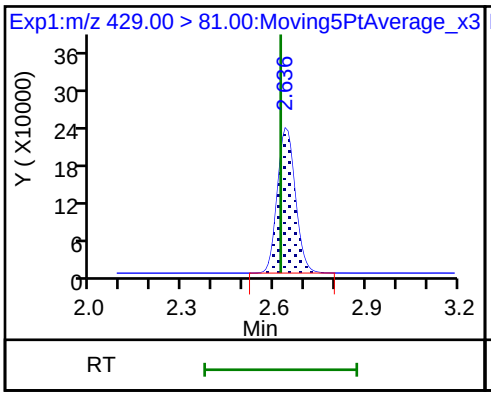
65 Adona



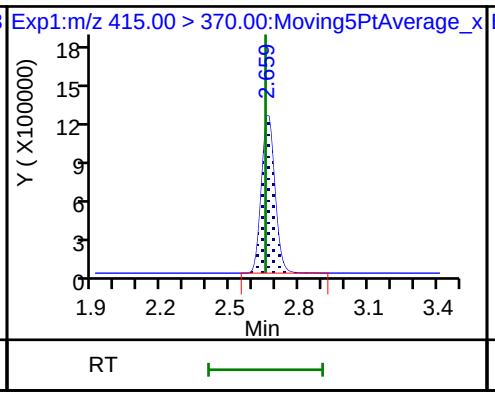
13 1H,1H,2H,2H-perfluorooctanesulfoni



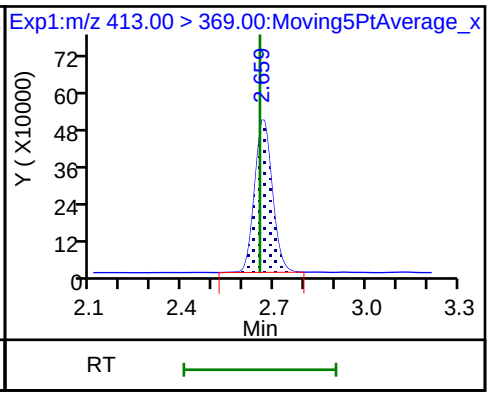
D 12 M2-6:2FTS



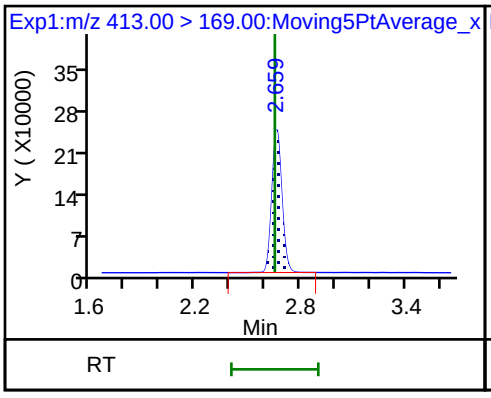
* 62 13C2-PFOA



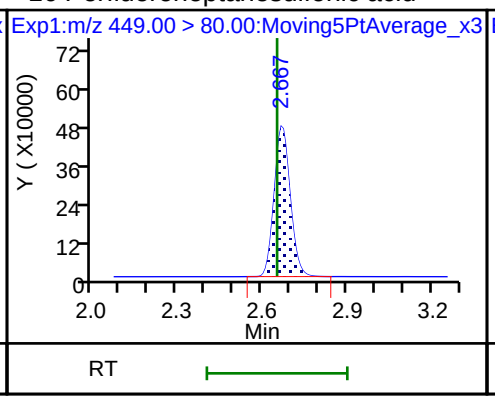
15 Perfluorooctanoic acid



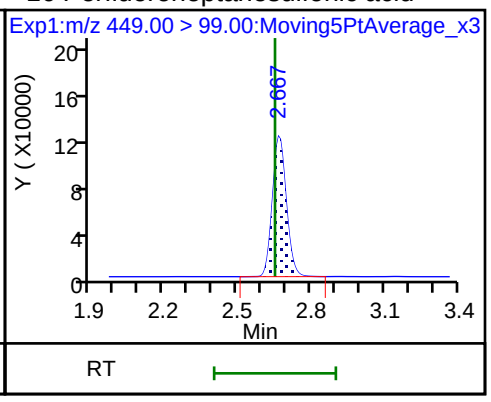
15 Perfluorooctanoic acid



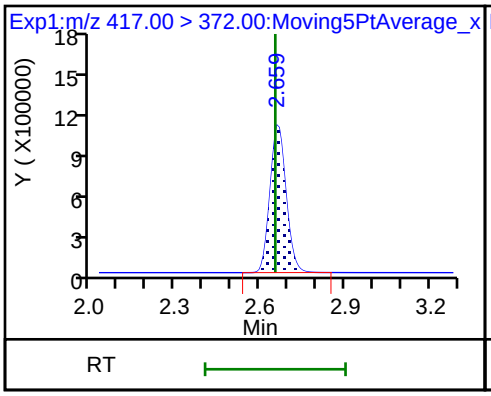
16 Perfluoroheptanesulfonic acid



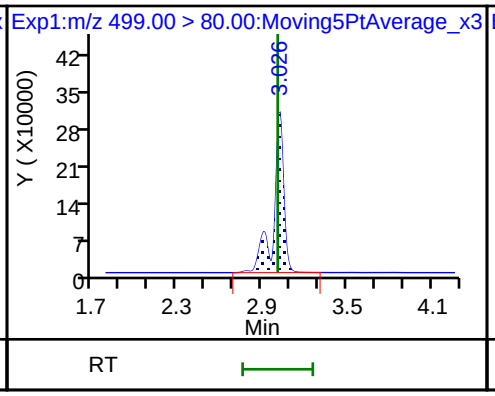
16 Perfluoroheptanesulfonic acid



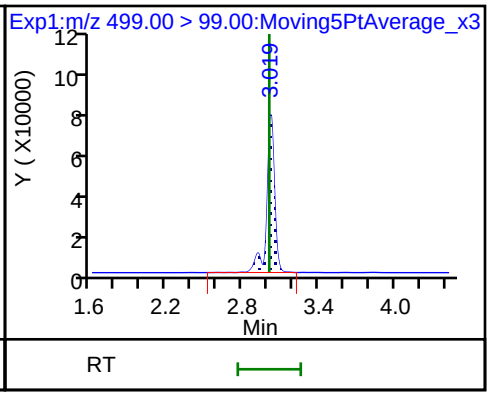
D 14 13C4 PFOA



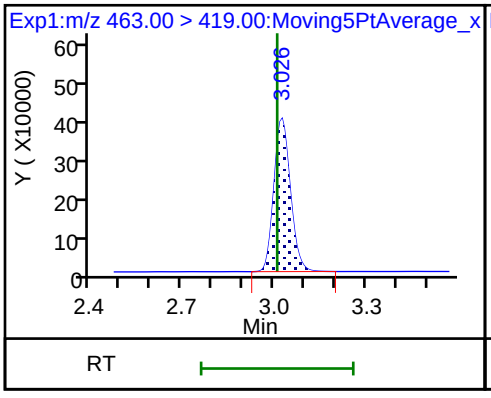
17 Perfluorooctane sulfonic acid



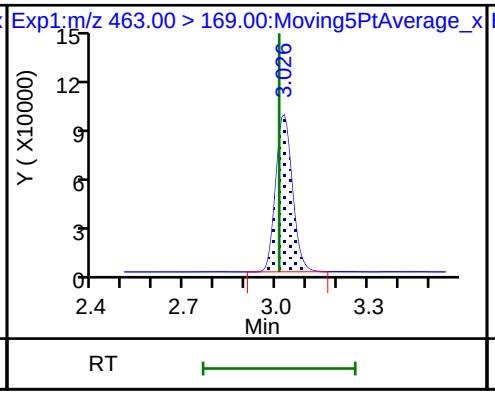
17 Perfluorooctane sulfonic acid



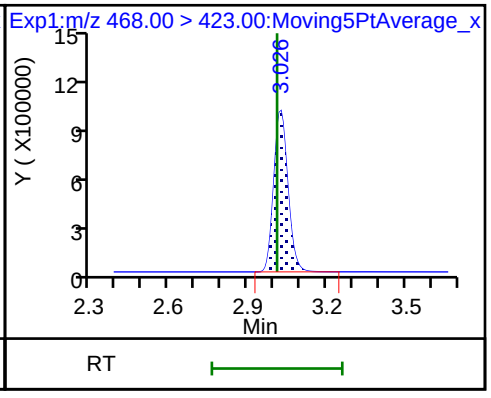
20 Perfluorononanoic acid



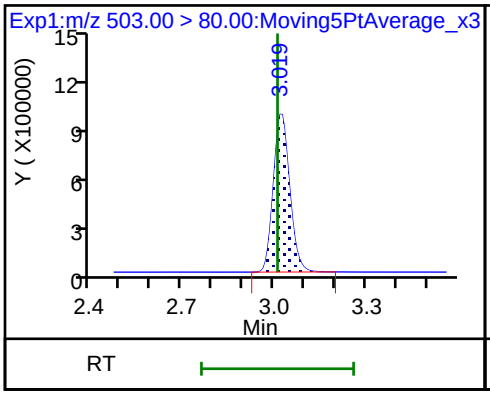
20 Perfluorononanoic acid



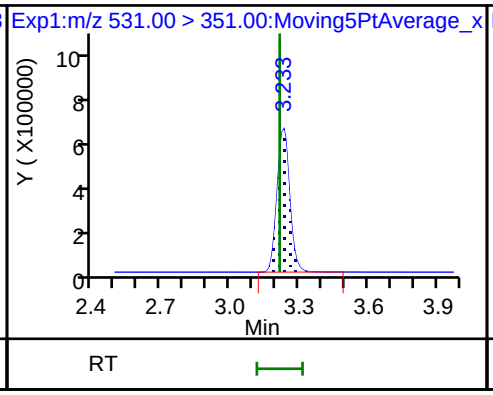
D 19 13C5 PFNA



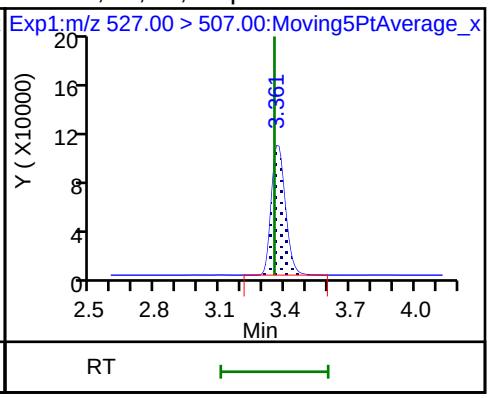
D 18 13C4 PFOS



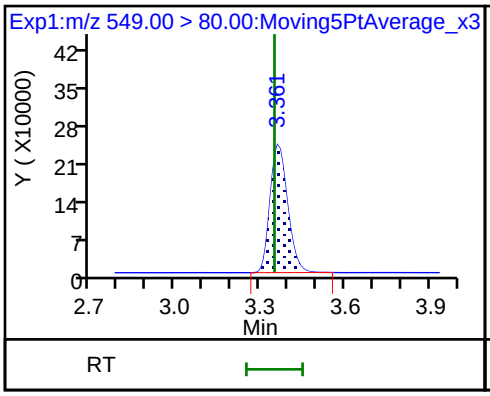
69 9-Chlorohexadecafluoro-3-oxanonane



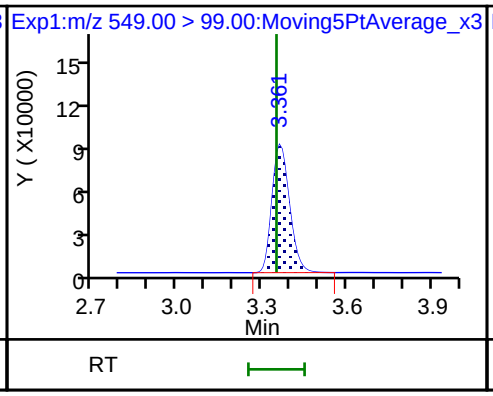
25 1H,1H,2H,2H-perfluorodecanesulfoni



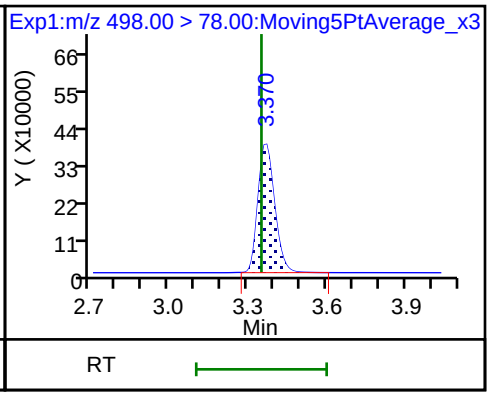
68 Perfluorononanesulfonic acid



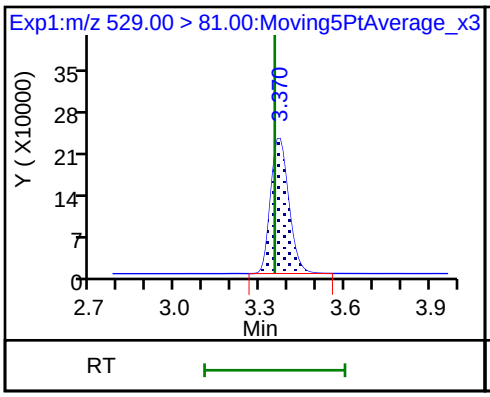
68 Perfluorononanesulfonic acid



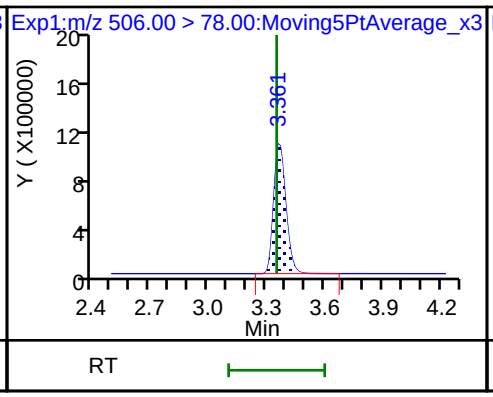
22 Perfluorooctane Sulfonamide



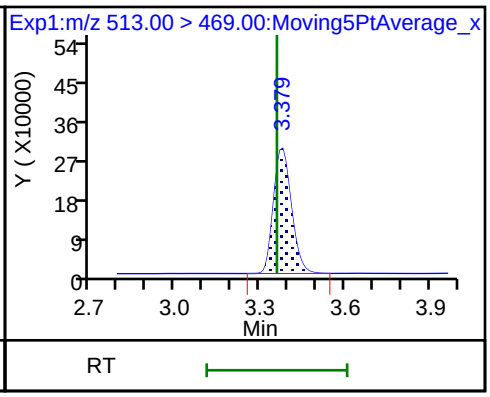
D 26 M2-8:2FTS



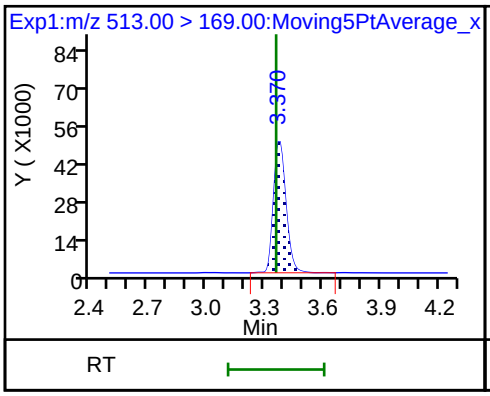
D 21 13C8 FOSA



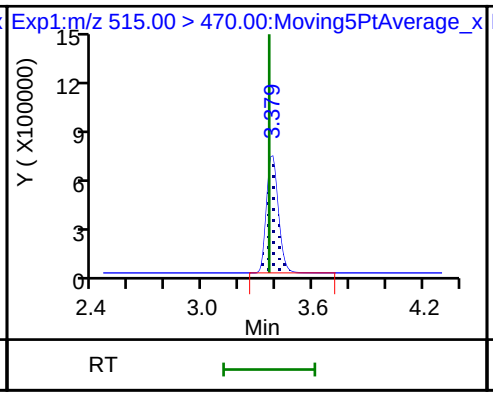
24 Perfluorodecanoic acid



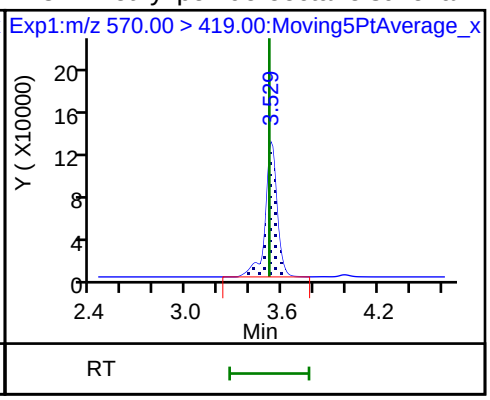
24 Perfluorodecanoic acid



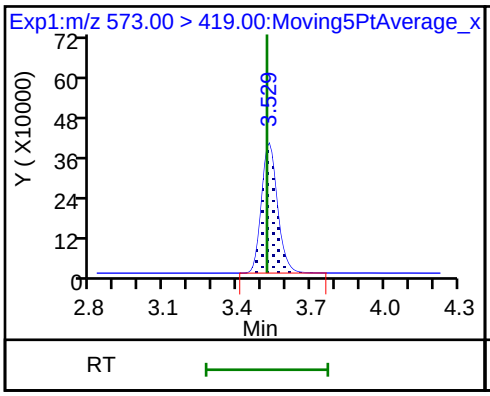
D 23 13C2 PFDA



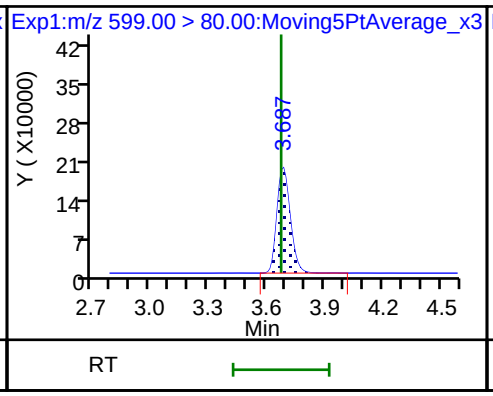
28 N-methyl perfluorooctane sulfonami



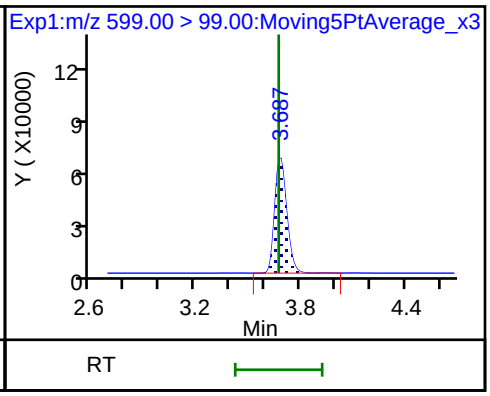
D 27 d3-NMeFOSAA



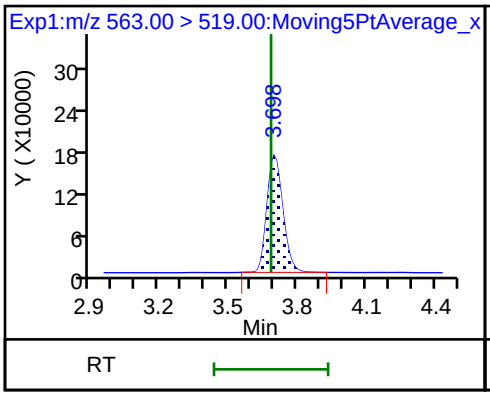
29 Perfluorodecane Sulfonic acid



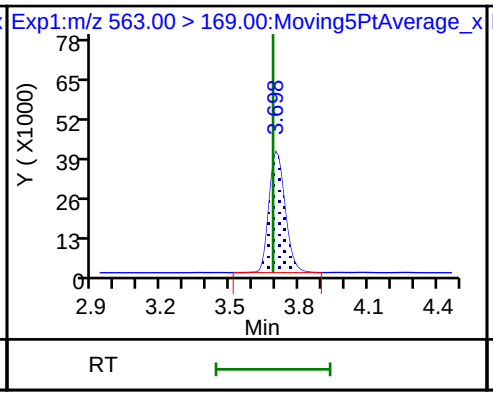
29 Perfluorodecane Sulfonic acid



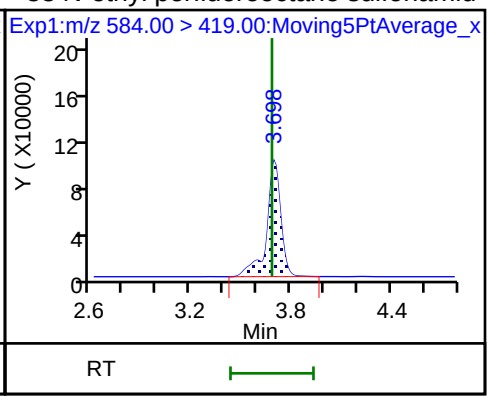
31 Perfluoroundecanoic acid



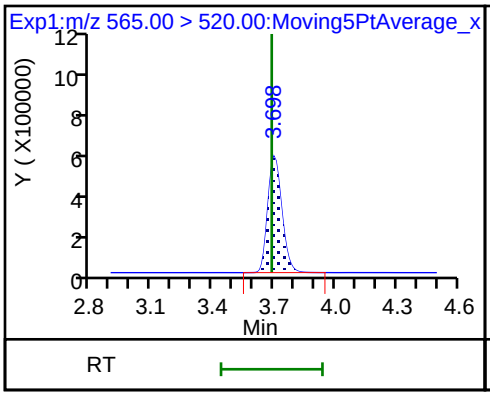
31 Perfluoroundecanoic acid



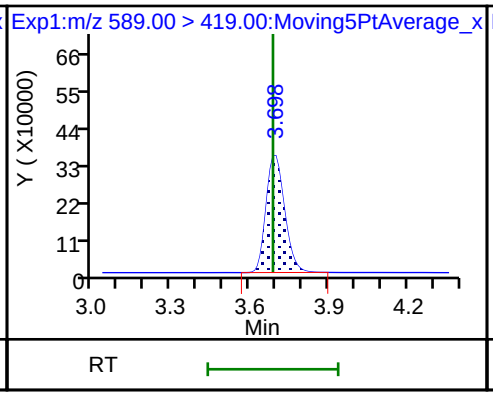
33 N-ethyl perfluorooctane sulfonamid



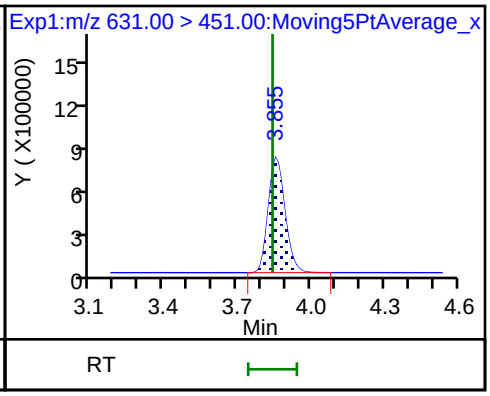
D 30 13C2 PFUnA



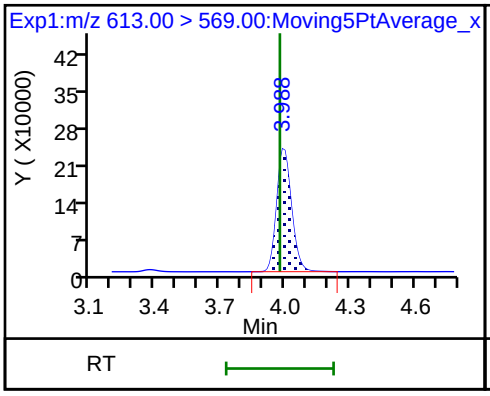
D 32 d5-NEtFOSAA



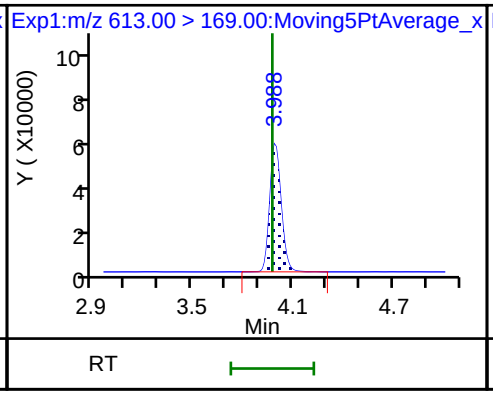
66 11-Chloroeicosafluoro-3-oxaundecan



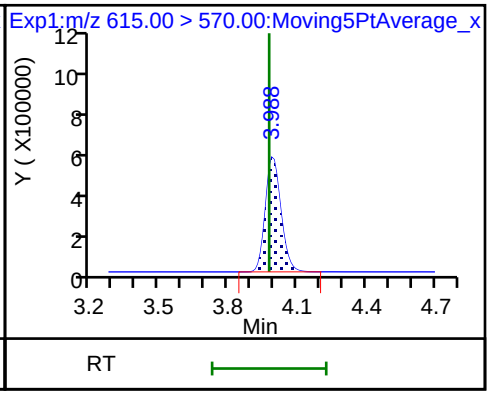
37 Perfluorododecanoic acid



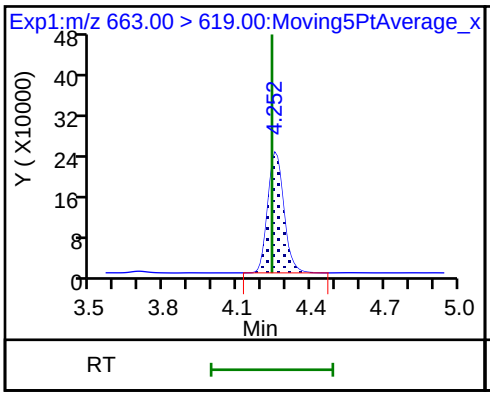
37 Perfluorododecanoic acid



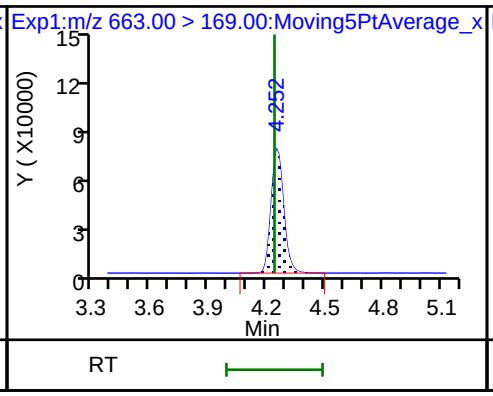
D 36 13C2 PFDoA



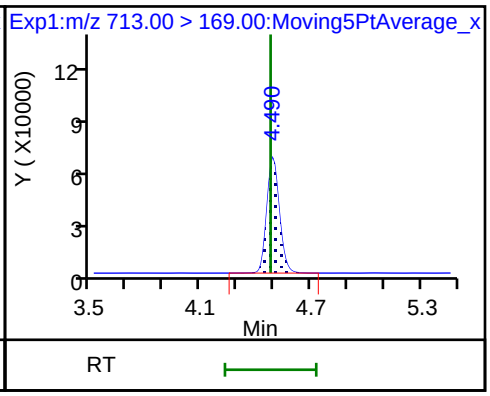
41 Perfluorotridecanoic acid



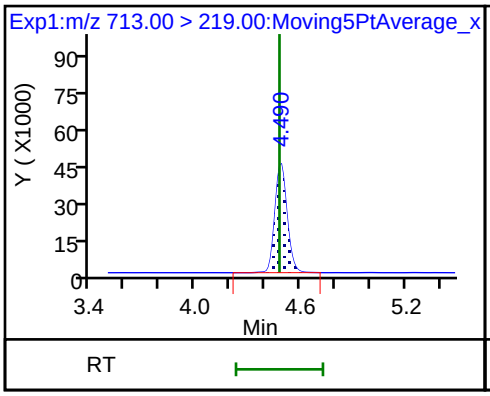
41 Perfluorotridecanoic acid



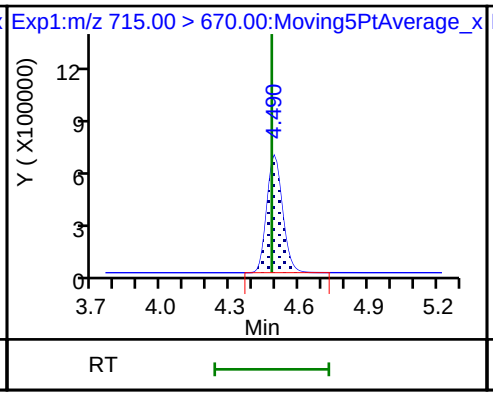
42 Perfluorotetradecanoic acid



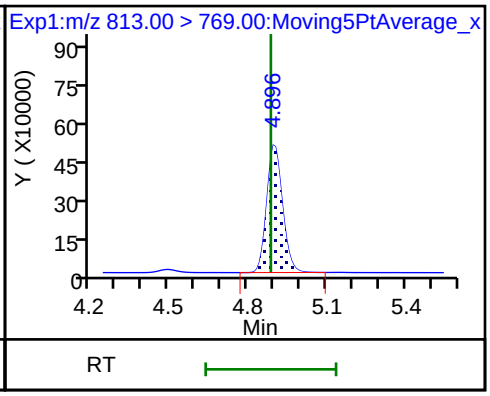
42 Perfluorotetradecanoic acid



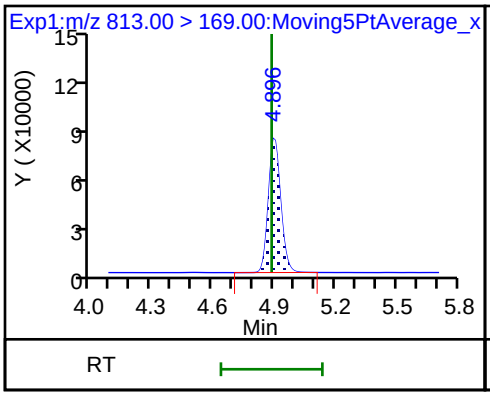
D 43 13C2-PFTeDA



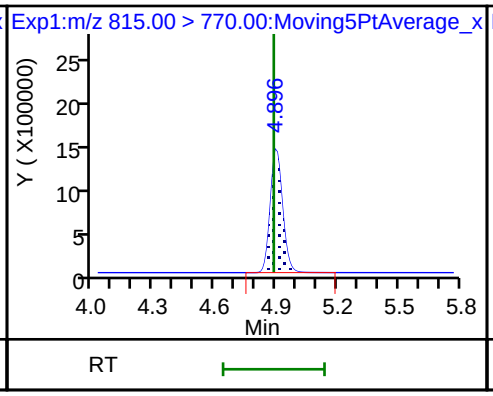
45 Perfluorohexadecanoic acid



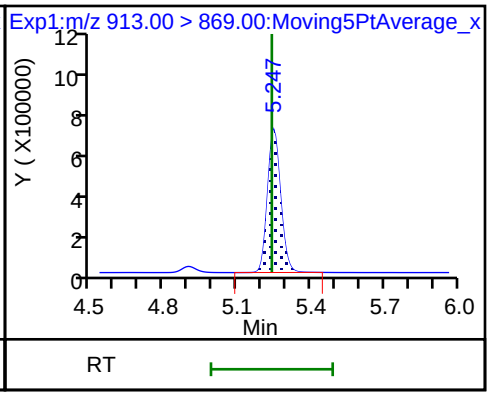
45 Perfluorohexadecanoic acid



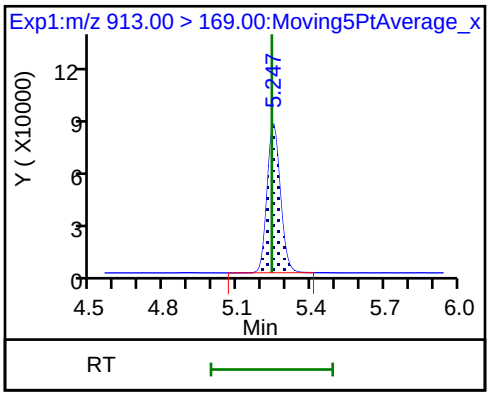
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

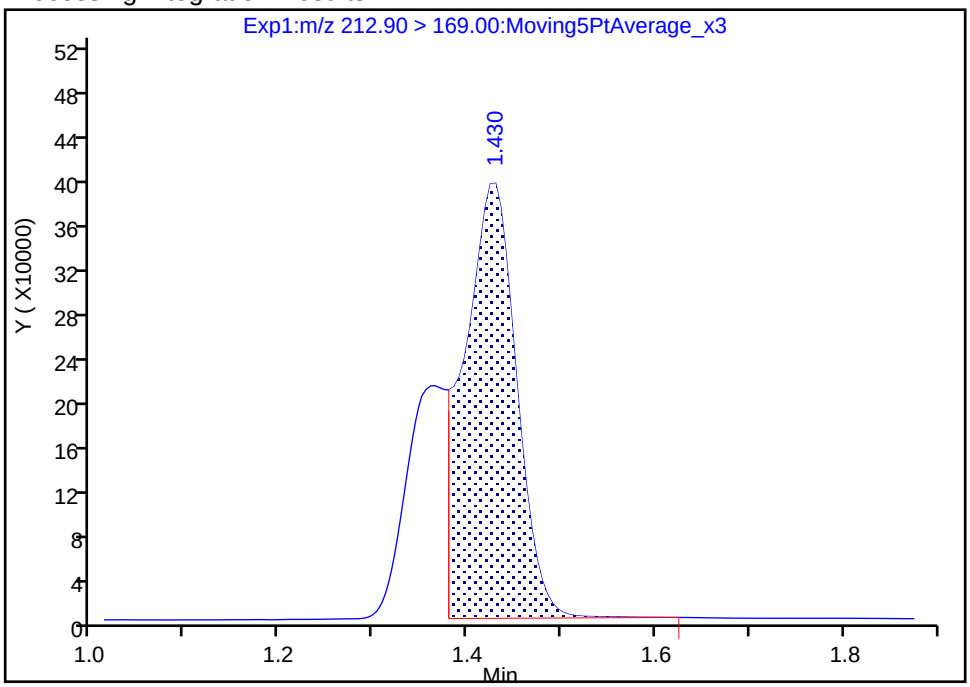
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N
Lims ID: LCSD 320-232888/3-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

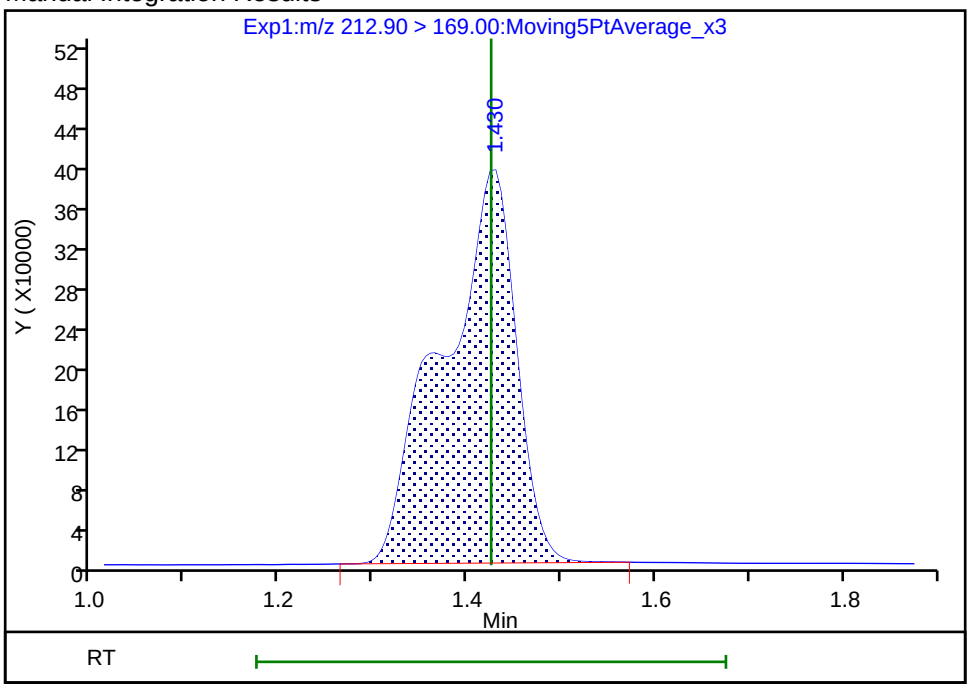
Processing Integration Results

RT: 1.43
Area: 1505965
Amount: 0.648992
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 2126444
Amount: 0.916387
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

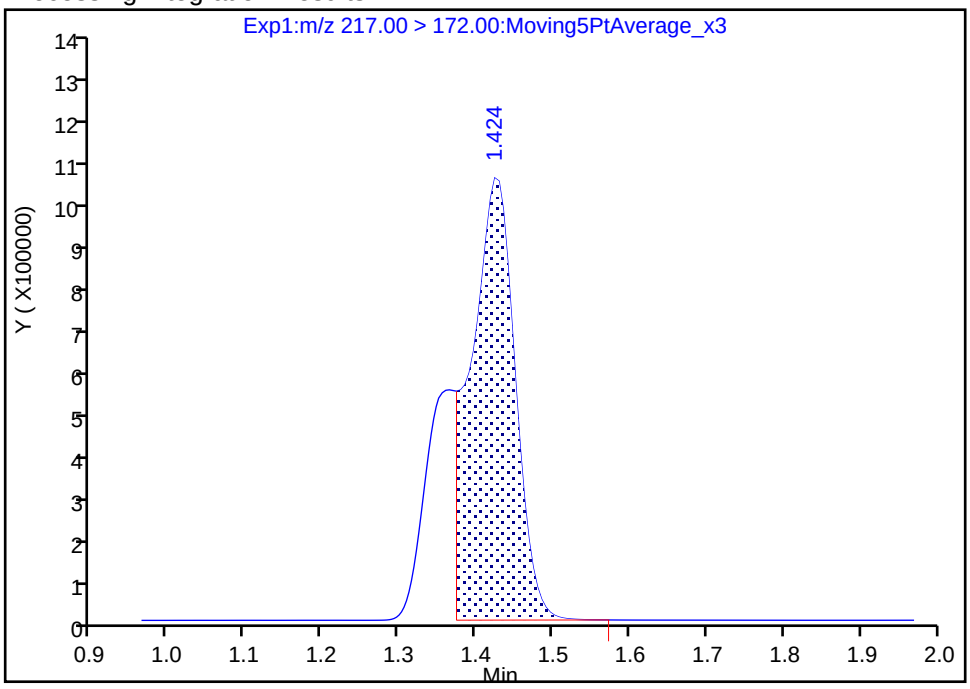
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N
Lims ID: LCSD 320-232888/3-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

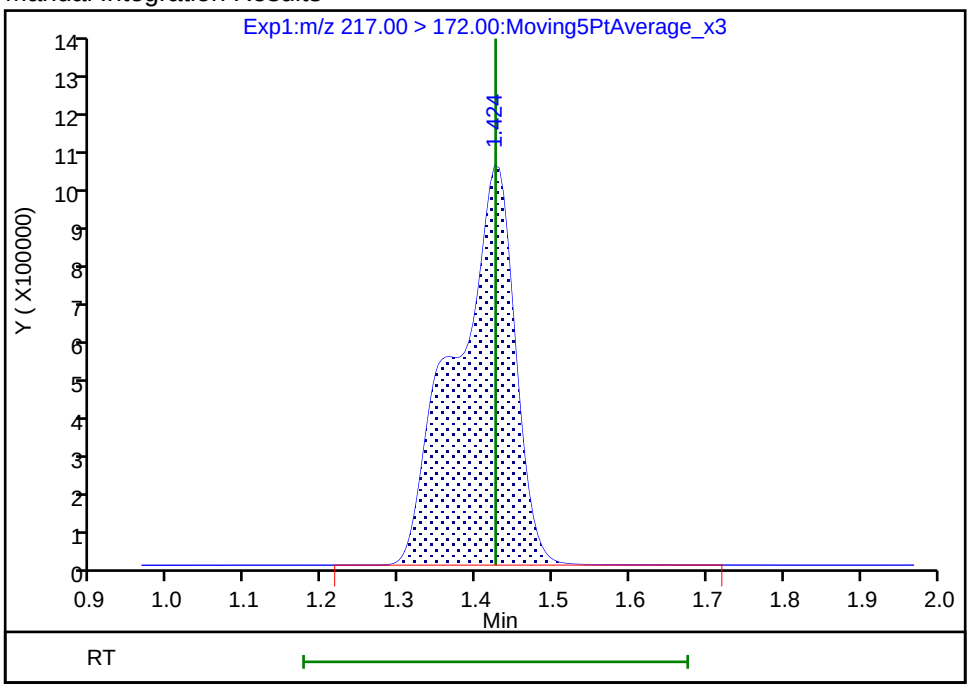
Processing Integration Results

RT: 1.42
Area: 4163510
Amount: 1.514777
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5679455
Amount: 2.066312
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/05/2018 08:51

Analysis Batch Number: 232544 End Date: 07/05/2018 12:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-232544/2		07/05/2018 08:51	1	2018.07.05LLICALAA 002.d	GeminiC18 3x100 3(mm)
IC 320-232544/3		07/05/2018 08:59	1	2018.07.05LLICALAA 003.d	GeminiC18 3x100 3(mm)
IC 320-232544/4		07/05/2018 09:07	1	2018.07.05LLICALAA 004.d	GeminiC18 3x100 3(mm)
IC 320-232544/5 ICIS		07/05/2018 09:14	1	2018.07.05LLICALAA 005.d	GeminiC18 3x100 3(mm)
IC 320-232544/6		07/05/2018 09:22	1	2018.07.05LLICALAA 006.d	GeminiC18 3x100 3(mm)
IC 320-232544/7		07/05/2018 09:30	1	2018.07.05LLICALAA 007.d	GeminiC18 3x100 3(mm)
IC 320-232544/8		07/05/2018 09:38	1	2018.07.05LLICALAA 008.d	GeminiC18 3x100 3(mm)
ICB 320-232544/9		07/05/2018 09:46	1	2018.07.05LLICALAA 009.d	GeminiC18 3x100 3(mm)
ICV 320-232544/10		07/05/2018 12:02	1	2018.07.05LLICALAAA 010.d	GeminiC18 3x100 3(mm)
CCB 320-232544/11		07/05/2018 12:10	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/10/2018 20:06

Analysis Batch Number: 233302 End Date: 07/10/2018 23:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-233302/1		07/10/2018 20:06	1	2018.07.10LLB_004.d	GeminiC18 3x100 3(mm)
CCVL 320-233302/2		07/10/2018 20:14	1	2018.07.10LLB_005.d	GeminiC18 3x100 3(mm)
CCV 320-233302/3 CCVIS		07/10/2018 20:22	1	2018.07.10LLB_006.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:37	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:45	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:01	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:09	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:17	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:24	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:32	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:40	1		GeminiC18 3x100 3(mm)
CCV 320-233302/14		07/10/2018 21:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:56	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:04	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:11	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:27	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:35	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:43	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:51	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:58	1		GeminiC18 3x100 3(mm)
CCV 320-233302/24		07/10/2018 23:06	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/11/2018 01:43

Analysis Batch Number: 233309 End Date: 07/11/2018 05:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-233309/1		07/11/2018 01:43	1	2018.07.10LLB_047.d	GeminiC18 3x100 3(mm)
MB 320-232888/1-A		07/11/2018 01:51	1	2018.07.10LLB_048.d	GeminiC18 3x100 3(mm)
LCS 320-232888/2-A		07/11/2018 01:58	1	2018.07.10LLB_049.d	GeminiC18 3x100 3(mm)
LCSD 320-232888/3-A		07/11/2018 02:06	1	2018.07.10LLB_050.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:14	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:22	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:45	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:01	1		GeminiC18 3x100 3(mm)
CCV 320-233309/12		07/11/2018 03:09	1	2018.07.10LLB_058.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:24	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:32	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:55	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:11	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:19	1		GeminiC18 3x100 3(mm)
CCV 320-233309/23		07/11/2018 04:35	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:42	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:50	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 05:06	1		GeminiC18 3x100 3(mm)
CCV 320-233309/28		07/11/2018 05:14	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/11/2018 14:48

Analysis Batch Number: 233476 End Date: 07/11/2018 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-233476/2		07/11/2018 14:48	1	2018.07.11LLICA LA 002.d	GeminiC18 3x100 3(mm)
IC 320-233476/3		07/11/2018 14:59	1	2018.07.11LLICA LA 003.d	GeminiC18 3x100 3(mm)
IC 320-233476/4		07/11/2018 15:07	1	2018.07.11LLICA LA 004.d	GeminiC18 3x100 3(mm)
IC 320-233476/5 ICIS		07/11/2018 15:15	1	2018.07.11LLICA LA 005.d	GeminiC18 3x100 3(mm)
IC 320-233476/6		07/11/2018 15:23	1	2018.07.11LLICA LA 006.d	GeminiC18 3x100 3(mm)
IC 320-233476/7		07/11/2018 15:30	1	2018.07.11LLICA LA 007.d	GeminiC18 3x100 3(mm)
IC 320-233476/8		07/11/2018 15:38	1	2018.07.11LLICA LA 008.d	GeminiC18 3x100 3(mm)
ICB 320-233476/9		07/11/2018 15:46	1	2018.07.11LLICA LA 009.d	GeminiC18 3x100 3(mm)
ICV 320-233476/10		07/11/2018 15:54	1	2018.07.11LLICA LA 010.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/13/2018 00:02

Analysis Batch Number: 233780 End Date: 07/13/2018 01:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-233780/1		07/13/2018 00:02	1	2018.07.12LLC_004.d	GeminiC18 3x100 3(mm)
CCVL 320-233780/2		07/13/2018 00:10	1	2018.07.12LLC_005.d	GeminiC18 3x100 3(mm)
CCV 320-233780/3 CCVIS		07/13/2018 00:17	1	2018.07.12LLC_035.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:25	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:33	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:41	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:49	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:56	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:04	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:12	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:20	1		GeminiC18 3x100 3(mm)
460-159314-4		07/13/2018 01:28	1	2018.07.12LLC_044.d	GeminiC18 3x100 3(mm)
CCV 320-233780/13		07/13/2018 01:36	1	2018.07.12LLC_045.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Batch Number: 232888 Batch Start Date: 07/07/18 09:22 Batch Analyst: Long, Tyrel W

Batch Method: 3535 Batch End Date: 07/07/18 12:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00082	LCPFC-IS 00068
MB 320-232888/1		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCS 320-232888/2		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCSD 320-232888/3		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
460-159314-D-4	PDI-MW-161-1-I-0 6262018	3535, 537 (modified)	T	336.25 g	225.93 g	110.3 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00155	AnalysisComment				
MB 320-232888/1		3535, 537 (modified)							
LCS 320-232888/2		3535, 537 (modified)		500 uL					
LCSD 320-232888/3		3535, 537 (modified)		500 uL					
460-159314-D-4	PDI-MW-161-1-I-0 6262018	3535, 537 (modified)	T		Cloudy and gray in color				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Batch Number: 232888 Batch Start Date: 07/07/18 09:22 Batch Analyst: Long, Tyrel W

Batch Method: 3535 Batch End Date: 07/07/18 12:15

Batch Notes	
Analyst ID - Aliquot Step	TWL
Balance ID	QA-070
Batch Comment	Client labels match TA lables, TWL 07/07/18
Analyst ID - Final Volume Step	TWL
H2O ID	7/5/18
Hexane ID	1286128
Internal Standard ID#	1277806
Manifold ID	c,g
Methanol ID	1295465
Sodium Hydroxide ID	1285534
Pipette ID	I46345G
Analyst ID - Reagent Drop	TWL
Analyst ID - IS Reagent Drop	TWL
Analyst ID - IS Reagent Drop Witness	JER
Analyst ID - SU Reagent Drop	TWL
Analyst ID - SU Reagent Drop Witness	SKD
Solvent Lot #	1282835
Solvent Name	0.3% NH4OH/MEOH
SOP Number	WS-LC-0025
SPE Cartridge Type	Oasis WAX 500mg
Solid Phase Extraction Disk ID	003837354a

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Frank Robinson

Amy Picunas	becky.mason@testamericainc.com	Page 1 of 3

Company: CDM Smith, Inc.		Job #: 159314
Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days): 14 Days	
State, Zip: NY, 12110	PO #: 77861	
Phone:	WO #:	
Email: picunasae@cdmsmith.com	Project #: 48016917	
Project Name: Former Aluminum Louvre	SSOW#:	
Site:		

Analysis Requested

SUB Work

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
1 POI-TB-06262018	6/26/18	—	—	Water			✓					3	Trip Blank
2 POI-FB-06262018	6/26/18	0830	—	Water			✓					3	Field Blank
3 POI-16-WG-75-06262018	6/26/18	1030	G	Water			✓					3	
4 POI-MW-161-1-I-06262018	6/26/18	1110	G	Water			✓	✓	✓			3	
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-159314 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/26/18 1200	Company CDM	Received by:	Date/Time: 6/26/18 1700	Company FA		
Relinquished by:	Date/Time: 6/26/18 1645	Company	Received by:	Date/Time: 6/26/18 1700	Company F.A.		
Relinquished by:	Date/Time: 6/26/18 1900	Company FA	Received by:	Date/Time: 6/26/18 1900	Company FA Edi		

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

2.7/2.7 +RK (1 No C.)

07/25/2018

Page 708 of 712

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159314

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JQ Date: 6/27/18

07/25/2018

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51976.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159314-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/9/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-MW-161-1-I-06262018 (460-159314-4)	6/26/18	11:10 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6/28/18 1800	TAEdi		7/2/18 0910	TA-SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 25.2°C melt water AK-3

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 2
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 07/03/18 05:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	25.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159314-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
9/10/2018 2:44 PM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
09/10/2018
Revision: 1

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 5

- Report Narrative 5
- Sample Summary 7
- Detection Summary 8
- Method Summary 9
- Client Sample Results 10
- Surrogate Summary 16
- Isotope Dilution Summary 17
- QC Sample Results 18
- Definitions 29
- QC Association 30
- Chronicle 31
- Certification Summary 32

Organic Sample Data 33

- GC/MS VOA 33
  - 8260C 33
    - 8260C QC Summary 34
    - 8260C Sample Data 52
    - Standards Data 94
      - 8260C ICAL Data 94
      - 8260C CCAL Data 207
    - Raw QC Data 229
      - 8260C Tune Data 229
      - 8260C Blank Data 241
      - 8260C LCS/LCSD Data 250

Table of Contents

8260C Run Logs 279

8260C Prep Data 282

GC/MS Semi VOA 284

8270_SIM_14DX 284

8270_SIM_14DX QC Summary 285

8270_SIM_14DX Sample Data 291

Standards Data 295

8270_SIM_14DX ICAL Data 295

8270_SIM_14DX CCAL Data 315

Raw QC Data 320

8270_SIM_14DX Tune Data 320

8270_SIM_14DX Blank Data 334

8270_SIM_14DX LCS/LCSD Data 337

8270_SIM_14DX Run Logs 345

8270_SIM_14DX Prep Data 347

LCMS 348

Method PFC IDA 348

Method PFC IDA QC Summary 349

Method PFC IDA Sample Data 358

Standards Data 370

Method PFC IDA ICAL Data 370

Method PFC IDA CCAL Data 550

Raw QC Data 662

Method PFC IDA Blank Data 662

Method PFC IDA LCS/LCSD Data 673

Method PFC IDA Run Logs 701

Table of Contents

Method PFC IDA Prep Data 706
Subcontracted Data 708
Shipping and Receiving Documents 709
Client Chain of Custody 710
Sample Receipt Checklist 713

Job Narrative
460-159314-1

Revsied report: A revision was created for the following samples due to a preparation data entry error that resulted in the reporting of high-biased results for PFAS. PDI-MW-161-1-I-06262018 (460-159314-4)

Receipt
The samples were received on 6/26/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: PDI-MW-161-1-I-06262018 (460-159314-4) for PFAS analysis. The client was contacted regarding this issue, and the laboratory was instructed to proceed wih analysis. Received at 25.2 degrees Celsius, ice was melted.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method 537 (modified): Results for samples (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C2-PFTeDA: PDI-MW-161-1-I-06262018 (460-159314-4). Re-analysis was performed with concurring results. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-232888 and analytical batch 320-233309 were outside control limits for Perfluoroheptanesulfonic Acid (PFHpS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): Due to the high concentration of Perfluorobutanesulfonic acid (PFBS), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233309 could not be evaluated for accuracy and precision for this analyte. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside control limits: (320-40757-A-1-B MS). The sample was re-analyzed at dilution with improved ISTD response; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. The ISTD is not used to quantitate target analytes; therefore, there is no impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for several analytes in the following samples: (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD). These samples were re-analyzed at dilution with improved IDA recovery; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233780 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3535: The following sample: PDI-MW-161-1-I-06262018 (460-159314-4) were observed to be cloudy gray color after the eluting process. Prep Batch: 320-232888 Method Code: 3535_PFC

Method 3535: Due to the matrix of the following sample PDI-MW-161-1-I-06262018 (460-159314-4), a reduced amount of volume was able to go through the solid phase extraction column due to particulates in the sample,which ended up clogging the column. The reporting limits (RLs) have been adjusted proportionately for the following preparation batch 320-232888.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159314-1	PDI-TB-06262018	Water	06/26/18 00:00	06/26/18 19:00
460-159314-2	PDI-FB-06262018	Water	06/26/18 08:30	06/26/18 19:00
460-159314-3	PDI-16-WG-75-06262018	Water	06/26/18 10:30	06/26/18 19:00
460-159314-4	PDI-MW-161-1-I-06262018	Water	06/26/18 11:10	06/26/18 19:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018 — Lab Sample ID: 460-159314-1

No Detections.

Client Sample ID: PDI-FB-06262018 — Lab Sample ID: 460-159314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-16-WG-75-06262018 — Lab Sample ID: 460-159314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.7		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.58	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-MW-161-1-I-06262018 — Lab Sample ID: 460-159314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.3		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	15		1.0	0.25	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	370		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.1		1.0	0.14	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	5.2		1.6	0.28	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.9		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.7		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.5		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	14		1.6	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.9		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.54	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.6	0.14	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.6	0.44	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample ID: PDI-TB-06262018

Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:22	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:22	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:22	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:22	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 02:22	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:22	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 02:22	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:22	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:22	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:22	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:22	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:22	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:22	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:22	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:22	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:22	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:22	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:22	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:22	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:22	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:22	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:22	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:22	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:22	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:22	1

Client Sample ID: PDI-TB-06262018

Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:22*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 02:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 02:22*	*1*

Client Sample ID: PDI-FB-06262018

Date Collected: 06/26/18 08:30
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:45	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:45	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:45	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:45	1
2-Butanone (MEK)	**8.0**		5.0	1.9	ug/L			07/10/18 02:45	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:45	1
Acetone	**15**		5.0	5.0	ug/L			07/10/18 02:45	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:45	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:45	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:45	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:45	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:45	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:45	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:45	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:45	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:45	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:45	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
Methylene Chloride	**4.5**		1.0	0.32	ug/L			07/10/18 02:45	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:45	1

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:45	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:45	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:45	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:45	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:45	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:45*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*07/10/18 02:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 02:45*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 02:45*	*1*

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 09:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:23	1
Acetone	**7.7**		5.0	5.0	ug/L			07/10/18 09:23	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:23	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.22	ug/L			07/10/18 09:23	1

Client Sample ID: PDI-16-WG-75-06262018

Date Collected: 06/26/18 10:30
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:23	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:23	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Tetrachloroethene	**2.7**		1.0	0.25	ug/L			07/10/18 09:23	1
Toluene	**0.58**	**J**	1.0	0.38	ug/L			07/10/18 09:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:23	1
Trichloroethene	**85**		1.0	0.31	ug/L			07/10/18 09:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:23	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*		*07/10/18 09:23*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*07/10/18 09:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 09:23*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:23*	*1*

Client Sample ID: PDI-MW-161-1-I-06262018

Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 03:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 03:09	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 03:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 03:09	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 03:09	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 03:09	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 03:09	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 03:09	1
Acetone	**7.3**		5.0	5.0	ug/L			07/10/18 03:09	1

Client Sample ID: PDI-MW-161-1-I-06262018

Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 03:09	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 03:09	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 03:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 03:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 03:09	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 03:09	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 03:09	1
cis-1,2-Dichloroethene	**13**		1.0	0.22	ug/L			07/10/18 03:09	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 03:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 03:09	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 03:09	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 03:09	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 03:09	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Tetrachloroethene	**15**		1.0	0.25	ug/L			07/10/18 03:09	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.24	ug/L			07/10/18 03:09	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 03:09	1
Trichloroethene	**370**		1.0	0.31	ug/L			07/10/18 03:09	1
Trichlorofluoromethane	**1.1**		1.0	0.14	ug/L			07/10/18 03:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 03:09	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 03:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 03:09	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 03:09*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*07/10/18 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 03:09*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 03:09*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.41	0.18	ug/L		07/03/18 20:11	07/05/18 12:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.2**		1.6	0.28	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoropentanoic acid (PFPeA)	**6.9**		1.6	0.40	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanoic acid (PFHxA)	**6.7**		1.6	0.47	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanoic acid (PFHpA)	**5.5**		1.6	0.20	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanoic acid (PFOA)	**14**		1.6	0.69	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorononanoic acid (PFNA)	**4.9**		1.6	0.22	ng/L		07/07/18 09:25	07/13/18 01:28	1

Client Sample ID: PDI-MW-161-1-I-06262018

Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	**0.54**	**J**	1.6	0.25	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.89	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.6	1.1	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.24	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorobutanesulfonic acid (PFBS)	**1.3**	**J**	1.6	0.16	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J**	1.6	0.14	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.15	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.6	0.44	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.26	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.6	0.28	ng/L		07/07/18 09:25	07/13/18 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*25*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFBA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFHxA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFNA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDA	*31*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFUnA	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDoA	*26*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
18O2 PFHxS	*34*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOS	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4-PFHpA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFPeA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C3-PFBS	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2-PFTeDA	*21*	*	*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159314-1	PDI-TB-06262018	105	95	102	109
460-159314-2	PDI-FB-06262018	105	96	99	108
460-159314-3	PDI-16-WG-75-06262018	102	99	102	108
460-159314-4	PDI-MW-161-1-I-06262018	105	98	102	108
LCS 460-534740/4	Lab Control Sample	100	98	102	100
LCS 460-534889/4	Lab Control Sample	92	98	100	102
LCSD 460-534740/5	Lab Control Sample Dup	102	102	101	103
LCSD 460-534889/5	Lab Control Sample Dup	98	102	100	101
MB 460-534740/9	Method Blank	98	100	102	109
MB 460-534889/8	Method Blank	101	95	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDoA (25-150)
460-159314-4	PDI-MW-161-1-I-06262018	25	32	35	33	32	31	30	26
LCS 320-232888/2-A	Lab Control Sample	80	87	87	90	91	93	91	88
LCSD 320-232888/3-A	Lab Control Sample Dup	77	83	84	89	89	90	92	85
MB 320-232888/1-A	Method Blank	75	81	79	87	87	88	85	87

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (25-150)	PFOS (25-150)	PFHpA (25-150)	PFPeA (25-150)	3C3-PFBS (25-150)	PFTDA (25-150)		
460-159314-4	PDI-MW-161-1-I-06262018	34	30	35	33	32	21 *		
LCS 320-232888/2-A	Lab Control Sample	92	86	93	81	81	83		
LCSD 320-232888/3-A	Lab Control Sample Dup	87	86	86	82	78	80		
MB 320-232888/1-A	Method Blank	93	85	84	78	77	80		

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFHpA = 13C4-PFHpA
PFPeA = 13C5 PFPeA
13C3-PFBS = 13C3-PFBS
PFTDA = 13C2-PFTeDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534740/9
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 20:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 20:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 20:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 20:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 20:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 20:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 20:53	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 20:53	1
Acetone	ND		5.0	5.0	ug/L			07/09/18 20:53	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 20:53	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 20:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 20:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 20:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 20:53	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 20:53	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 20:53	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 20:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 20:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 20:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 20:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 20:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 20:53	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 20:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 20:53	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 20:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 20:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 20:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 20:53	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*07/09/18 20:53*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*07/09/18 20:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/09/18 20:53*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/09/18 20:53*	*1*

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		94	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		98	77 - 123
1,1-Dichloroethene	20.0	18.7		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	22.2		ug/L		111	55 - 134
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,2-Dichloroethane	20.0	18.7		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.3		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	95.4		ug/L		95	64 - 120
2-Hexanone	100	97.2		ug/L		97	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	107		ug/L		107	39 - 150
Benzene	20.0	20.2		ug/L		101	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	17.4		ug/L		87	10 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Carbon tetrachloride	20.0	19.1		ug/L		95	70 - 132
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dibromochloromethane	20.0	19.7		ug/L		98	73 - 120
Chloroethane	20.0	18.2		ug/L		91	52 - 150
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	19.3		ug/L		97	56 - 131
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	80 - 120
Cyclohexane	20.0	19.1		ug/L		95	56 - 150
Bromodichloromethane	20.0	18.6		ug/L		93	76 - 120
Dichlorodifluoromethane	20.0	18.7		ug/L		93	50 - 131
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	20.7		ug/L		104	80 - 120
Isopropylbenzene	20.0	21.1		ug/L		105	80 - 123
Methyl acetate	40.0	42.2		ug/L		106	66 - 144
Methyl tert-butyl ether	20.0	20.3		ug/L		102	79 - 122
Methylcyclohexane	20.0	18.8		ug/L		94	61 - 145
Methylene Chloride	20.0	18.7		ug/L		94	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	18.1		ug/L		90	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	18.2		ug/L		91	71 - 143
Vinyl chloride	20.0	19.0		ug/L		95	62 - 138
cis-1,3-Dichloropropene	20.0	19.9		ug/L		100	77 - 120
Styrene	20.0	20.0		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72 - 131*

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 120	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9		ug/L		89	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	78 - 120	0	30
1,1-Dichloroethane	20.0	19.1		ug/L		96	77 - 123	2	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	11	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	11	30
1,2-Dichloroethane	20.0	18.4		ug/L		92	76 - 121	2	30
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123	0	30
1,3-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	11	30
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	10	30
2-Butanone (MEK)	100	94.1		ug/L		94	64 - 120	1	30
2-Hexanone	100	93.2		ug/L		93	71 - 125	4	30
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	78 - 124	7	30
Acetone	100	111		ug/L		111	39 - 150	4	30
Benzene	20.0	19.4		ug/L		97	77 - 121	4	30
Bromoform	20.0	19.7		ug/L		99	53 - 120	1	30
Bromomethane	20.0	18.8		ug/L		94	10 - 150	8	30
Carbon disulfide	20.0	17.4		ug/L		87	69 - 133	3	30
Carbon tetrachloride	20.0	17.9		ug/L		89	70 - 132	7	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	5	30
Dibromochloromethane	20.0	18.9		ug/L		94	73 - 120	4	30
Chloroethane	20.0	18.6		ug/L		93	52 - 150	2	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	1	30
Chloromethane	20.0	19.0		ug/L		95	56 - 131	1	30
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120	0	30
Cyclohexane	20.0	18.2		ug/L		91	56 - 150	5	30
Bromodichloromethane	20.0	19.3		ug/L		96	76 - 120	4	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	50 - 131	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/L		91	80 - 120	5	30
1,2-Dibromoethane			20.0	20.2		ug/L		101	80 - 120	3	30
Isopropylbenzene			20.0	20.3		ug/L		101	80 - 123	4	30
Methyl acetate			40.0	44.0		ug/L		110	66 - 144	4	30
Methyl tert-butyl ether			20.0	20.4		ug/L		102	79 - 122	0	30
Methylcyclohexane			20.0	18.2		ug/L		91	61 - 145	3	30
Methylene Chloride			20.0	19.2		ug/L		96	77 - 123	3	30
Tetrachloroethene			20.0	18.8		ug/L		94	78 - 122	4	30
Toluene			20.0	19.1		ug/L		96	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	18.5		ug/L		92	79 - 120	8	30
trans-1,3-Dichloropropene			20.0	19.0		ug/L		95	76 - 120	0	30
Trichloroethene			20.0	17.9		ug/L		89	77 - 120	1	30
Trichlorofluoromethane			20.0	18.0		ug/L		90	71 - 143	1	30
Vinyl chloride			20.0	18.8		ug/L		94	62 - 138	1	30
cis-1,3-Dichloropropene			20.0	19.5		ug/L		97	77 - 120	2	30
Styrene			20.0	19.7		ug/L		99	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 08:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 08:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 08:59	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 08:59	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 08:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 08:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 08:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 08:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 08:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 08:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 08:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 08:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 08:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 08:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 08:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 08:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 08:59	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 08:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 08:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 08:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 08:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*07/10/18 08:59*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 08:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/10/18 08:59*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/10/18 08:59*	*1*

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		100	77 - 123
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	80 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		89	55 - 134
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	76 - 121
1,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 123
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
2-Butanone (MEK)	100	98.4		ug/L		98	64 - 120
2-Hexanone	100	92.0		ug/L		92	71 - 125
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	78 - 124
Acetone	100	98.1		ug/L		98	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	19.5		ug/L		97	53 - 120
Bromomethane	20.0	20.1		ug/L		100	10 - 150
Carbon disulfide	20.0	19.8		ug/L		99	69 - 133
Carbon tetrachloride	20.0	20.3		ug/L		102	70 - 132
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120
Chloroethane	20.0	18.9		ug/L		95	52 - 150
Chloroform	20.0	20.2		ug/L		101	80 - 120
Chloromethane	20.0	19.9		ug/L		100	56 - 131
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 120
Cyclohexane	20.0	21.2		ug/L		106	56 - 150
Bromodichloromethane	20.0	18.9		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	21.7		ug/L		108	50 - 131
Ethylbenzene	20.0	19.3		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 120
Isopropylbenzene	20.0	21.2		ug/L		106	80 - 123
Methyl acetate	40.0	40.1		ug/L		100	66 - 144
Methyl tert-butyl ether	20.0	19.2		ug/L		96	79 - 122
Methylcyclohexane	20.0	21.7		ug/L		109	61 - 145
Methylene Chloride	20.0	19.6		ug/L		98	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.2		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	19.4		ug/L		97	77 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	20.7		ug/L		103	62 - 138
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	77 - 120
Styrene	20.0	20.5		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150	0	30
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	78 - 120	2	30
1,1-Dichloroethane	20.0	18.8		ug/L		94	77 - 123	6	30
1,1-Dichloroethene	20.0	19.3		ug/L		97	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	1	30
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	55 - 134	1	30
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120	1	30
1,2-Dichloroethane	20.0	17.1		ug/L		85	76 - 121	5	30
1,2-Dichloropropane	20.0	19.5		ug/L		98	77 - 123	0	30
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120	2	30
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	2	30
2-Butanone (MEK)	100	93.9		ug/L		94	64 - 120	5	30
2-Hexanone	100	93.5		ug/L		94	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)	100	108		ug/L		108	78 - 124	0	30
Acetone	100	92.2		ug/L		92	39 - 150	6	30
Benzene	20.0	20.1		ug/L		100	77 - 121	3	30
Bromoform	20.0	18.7		ug/L		94	53 - 120	4	30
Bromomethane	20.0	17.7		ug/L		88	10 - 150	13	30
Carbon disulfide	20.0	18.7		ug/L		94	69 - 133	6	30
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 132	3	30
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120	3	30
Dibromochloromethane	20.0	18.3		ug/L		92	73 - 120	3	30
Chloroethane	20.0	18.0		ug/L		90	52 - 150	5	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	3	30
Chloromethane	20.0	17.5		ug/L		88	56 - 131	13	30
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	80 - 120	6	30
Cyclohexane	20.0	20.5		ug/L		103	56 - 150	3	30
Bromodichloromethane	20.0	18.4		ug/L		92	76 - 120	3	30
Dichlorodifluoromethane	20.0	19.5		ug/L		98	50 - 131	10	30
Ethylbenzene	20.0	18.5		ug/L		93	80 - 120	4	30
1,2-Dibromoethane	20.0	19.4		ug/L		97	80 - 120	1	30
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 123	3	30
Methyl acetate	40.0	39.3		ug/L		98	66 - 144	2	30
Methyl tert-butyl ether	20.0	18.6		ug/L		93	79 - 122	3	30
Methylcyclohexane	20.0	20.2		ug/L		101	61 - 145	7	30
Methylene Chloride	20.0	19.0		ug/L		95	77 - 123	3	30
Tetrachloroethene	20.0	19.8		ug/L		99	78 - 122	3	30
Toluene	20.0	19.7		ug/L		99	80 - 120	2	30
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	79 - 120	5	30
trans-1,3-Dichloropropene	20.0	18.3		ug/L		92	76 - 120	4	30
Trichloroethene	20.0	19.2		ug/L		96	77 - 120	1	30
Trichlorofluoromethane	20.0	19.1		ug/L		95	71 - 143	11	30
Vinyl chloride	20.0	18.2		ug/L		91	62 - 138	13	30
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	77 - 120	4	30
Styrene	20.0	20.0		ug/L		100	80 - 120	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-533324/1-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/03/18 20:11	07/05/18 10:02	1

Lab Sample ID: LCS 460-533324/6-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.245	J	ug/L		31	10 - 137

Lab Sample ID: LCSD 460-533324/7-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.240	J	ug/L		30	10 - 137	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17	ng/L		07/07/18 09:25	07/11/18 01:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFBA	*81*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFHxA	*79*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFNA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDA	*88*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFUnA	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDoA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
18O2 PFHxS	*93*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOS	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4-PFHpA	*84*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFPeA	*78*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C3-PFBS	*77*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2-PFTeDA	*80*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	37.4		ng/L		93	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	64 - 124
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.6		ng/L		94	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	38.4		ng/L		96	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0		ng/L		82	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8		ng/L		93	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9		ng/L		102	67 - 127

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6		ng/L		92	68 - 128
Perfluorooctane Sulfonamide (FOSA)	40.0	40.0		ng/L		100	70 - 130

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*80*		*25 - 150*
13C4 PFBA	*87*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*93*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C3-PFBS	*81*		*25 - 150*
13C2-PFTeDA	*83*		*25 - 150*

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	40.0	36.7		ng/L		92	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)	40.0	36.2		ng/L		90	66 - 126	6	30
Perfluorohexanoic acid (PFHxA)	40.0	38.0		ng/L		95	66 - 126	2	30
Perfluoroheptanoic acid (PFHpA)	40.0	38.8		ng/L		97	66 - 126	4	30
Perfluorooctanoic acid (PFOA)	40.0	39.9		ng/L		100	64 - 124	2	30
Perfluorononanoic acid (PFNA)	40.0	39.1		ng/L		98	68 - 128	3	30
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	69 - 129	3	30
Perfluoroundecanoic acid (PFUnA)	40.0	35.3		ng/L		88	60 - 120	3	30
Perfluorododecanoic acid (PFDoA)	40.0	38.1		ng/L		95	71 - 131	1	30
Perfluorotridecanoic Acid (PFTriA)	40.0	33.1		ng/L		83	72 - 132	0	30
Perfluorotetradecanoic acid (PFTeA)	40.0	38.1		ng/L		95	68 - 128	1	30
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3		ng/L		97	73 - 133	4	30
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8		ng/L		90	63 - 123	3	30
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1		ng/L		100	68 - 128	7	30
Perfluorooctanesulfonic acid (PFOS)	37.1	35.0		ng/L		94	67 - 127	8	30
Perfluorodecanesulfonic acid (PFDS)	38.6	34.3		ng/L		89	68 - 128	4	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonamide (FOSA)			40.0	38.0		ng/L		95	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*77*		*25 - 150*
13C4 PFBA	*83*		*25 - 150*
13C2 PFHxA	*84*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*90*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*86*		*25 - 150*
13C5 PFPeA	*82*		*25 - 150*
13C3-PFBS	*78*		*25 - 150*
13C2-PFTeDA	*80*		*25 - 150*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Analysis Batch: 534740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-1	PDI-TB-06262018	Total/NA	Water	8260C	
460-159314-2	PDI-FB-06262018	Total/NA	Water	8260C	
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8260C	
MB 460-534740/9	Method Blank	Total/NA	Water	8260C	
LCS 460-534740/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534740/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 534889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-3	PDI-16-WG-75-06262018	Total/NA	Water	8260C	
MB 460-534889/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534889/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534889/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 533324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3510C	
MB 460-533324/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 533482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8270C	533324
MB 460-533324/1-A	Method Blank	Total/NA	Water	8270C	533324
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	8270C	533324
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	8270C	533324

LCMS

Prep Batch: 232888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3535	
MB 320-232888/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 233309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-232888/1-A	Method Blank	Total/NA	Water	537 (modified)	232888
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	232888
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	232888

Analysis Batch: 233780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	537 (modified)	232888

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Lab Sample ID: 460-159314-1
Date Collected: 06/26/18 00:00
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:22	VBP	TAL EDI

Client Sample ID: PDI-FB-06262018
Lab Sample ID: 460-159314-2
Date Collected: 06/26/18 08:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:45	VBP	TAL EDI

Client Sample ID: PDI-16-WG-75-06262018
Lab Sample ID: 460-159314-3
Date Collected: 06/26/18 10:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534889	07/10/18 09:23	CJM	TAL EDI

Client Sample ID: PDI-MW-161-1-I-06262018
Lab Sample ID: 460-159314-4
Date Collected: 06/26/18 11:10
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 03:09	VBP	TAL EDI
Total/NA	Prep	3510C			533324	07/03/18 20:11	GXY	TAL EDI
Total/NA	Analysis	8270C		1	533482	07/05/18 12:09	SK	TAL EDI
Total/NA	Prep	3535			232888	07/07/18 09:25	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	233780	07/13/18 01:28	JRB	TAL SAC

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159314-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
ANAB	DoD ELAP		L2468	01-20-21
Arizona	State Program	9	AZ0708	08-11-19
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-19
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-19
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-19
USDA	Federal		P330-18-00239	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06262018	460-159314-1	109	105	102	95
PDI-FB-06262018	460-159314-2	108	105	99	96
PDI-16-WG-75-06262018	460-159314-3	108	102	102	99
PDI-MW-161-1-I-06262018	460-159314-4	108	105	102	98
	MB 460-534740/9	109	98	102	100
	MB 460-534889/8	104	101	100	95
	LCS 460-534740/4	100	100	102	98
	LCS 460-534889/4	102	92	100	98
	LCSD 460-534740/5	103	102	101	102
	LCSD 460-534889/5	101	98	100	102

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67495.D

Lab ID: LCS 460-534740/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.5	93	75-125	
1,1,2,2-Tetrachloroethane	20.0	21.8	109	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9	94	59-150	
1,1,2-Trichloroethane	20.0	20.2	101	78-120	
1,1-Dichloroethane	20.0	19.5	98	77-123	
1,1-Dichloroethene	20.0	18.7	94	74-123	
1,2,4-Trichlorobenzene	20.0	21.8	109	80-124	
1,2-Dibromo-3-Chloropropane	20.0	22.2	111	55-134	
1,2-Dichlorobenzene	20.0	21.6	108	80-120	
1,2-Dichloroethane	20.0	18.7	93	76-121	
1,2-Dichloropropane	20.0	19.3	97	77-123	
1,3-Dichlorobenzene	20.0	20.8	104	80-120	
1,4-Dichlorobenzene	20.0	21.2	106	80-120	
2-Butanone (MEK)	100	95.4	95	64-120	
2-Hexanone	100	97.2	97	71-125	
4-Methyl-2-pentanone (MIBK)	100	109	109	78-124	
Acetone	100	107	107	39-150	
Benzene	20.0	20.2	101	77-121	
Bromoform	20.0	20.0	100	53-120	
Bromomethane	20.0	17.4	87	10-150	
Carbon disulfide	20.0	17.9	89	69-133	
Carbon tetrachloride	20.0	19.1	95	70-132	
Chlorobenzene	20.0	19.6	98	80-120	
Dibromochloromethane	20.0	19.7	98	73-120	
Chloroethane	20.0	18.2	91	52-150	
Chloroform	20.0	19.4	97	80-120	
Chloromethane	20.0	19.3	97	56-131	
cis-1,2-Dichloroethene	20.0	19.1	95	80-120	
Cyclohexane	20.0	19.1	95	56-150	
Bromodichloromethane	20.0	18.6	93	76-120	
Dichlorodifluoromethane	20.0	18.7	93	50-131	
Ethylbenzene	20.0	19.1	96	80-120	
1,2-Dibromoethane	20.0	20.7	104	80-120	
Isopropylbenzene	20.0	21.1	105	80-123	
Methyl acetate	40.0	42.2	106	66-144	
Methyl tert-butyl ether	20.0	20.3	102	79-122	
Methylcyclohexane	20.0	18.8	94	61-145	
Methylene Chloride	20.0	18.7	94	77-123	
Tetrachloroethene	20.0	19.7	98	78-122	
Toluene	20.0	20.0	100	80-120	
trans-1,2-Dichloroethene	20.0	20.1	100	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67495.D

Lab ID: LCS 460-534740/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.1	96	76-120	
Trichloroethene	20.0	18.1	90	77-120	
Trichlorofluoromethane	20.0	18.2	91	71-143	
Vinyl chloride	20.0	19.0	95	62-138	
cis-1,3-Dichloropropene	20.0	19.9	100	77-120	
Styrene	20.0	20.0	100	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67527.D

Lab ID: LCS 460-534889/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.1	100	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.9	100	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	59-150	
1,1,2-Trichloroethane	20.0	19.5	98	78-120	
1,1-Dichloroethane	20.0	19.9	100	77-123	
1,1-Dichloroethene	20.0	20.0	100	74-123	
1,2,4-Trichlorobenzene	20.0	19.7	99	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.7	89	55-134	
1,2-Dichlorobenzene	20.0	20.6	103	80-120	
1,2-Dichloroethane	20.0	18.0	90	76-121	
1,2-Dichloropropane	20.0	19.6	98	77-123	
1,3-Dichlorobenzene	20.0	20.3	101	80-120	
1,4-Dichlorobenzene	20.0	20.1	101	80-120	
2-Butanone (MEK)	100	98.4	98	64-120	
2-Hexanone	100	92.0	92	71-125	
4-Methyl-2-pentanone (MIBK)	100	107	107	78-124	
Acetone	100	98.1	98	39-150	
Benzene	20.0	20.7	104	77-121	
Bromoform	20.0	19.5	97	53-120	
Bromomethane	20.0	20.1	100	10-150	
Carbon disulfide	20.0	19.8	99	69-133	
Carbon tetrachloride	20.0	20.3	102	70-132	
Chlorobenzene	20.0	19.8	99	80-120	
Dibromochloromethane	20.0	19.0	95	73-120	
Chloroethane	20.0	18.9	95	52-150	
Chloroform	20.0	20.2	101	80-120	
Chloromethane	20.0	19.9	100	56-131	
cis-1,2-Dichloroethene	20.0	20.5	103	80-120	
Cyclohexane	20.0	21.2	106	56-150	
Bromodichloromethane	20.0	18.9	95	76-120	
Dichlorodifluoromethane	20.0	21.7	108	50-131	
Ethylbenzene	20.0	19.3	96	80-120	
1,2-Dibromoethane	20.0	19.7	99	80-120	
Isopropylbenzene	20.0	21.2	106	80-123	
Methyl acetate	40.0	40.1	100	66-144	
Methyl tert-butyl ether	20.0	19.2	96	79-122	
Methylcyclohexane	20.0	21.7	109	61-145	
Methylene Chloride	20.0	19.6	98	77-123	
Tetrachloroethene	20.0	20.4	102	78-122	
Toluene	20.0	20.2	101	80-120	
trans-1,2-Dichloroethene	20.0	19.9	99	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67527.D

Lab ID: LCS 460-534889/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.1	96	76-120	
Trichloroethene	20.0	19.4	97	77-120	
Trichlorofluoromethane	20.0	21.3	106	71-143	
Vinyl chloride	20.0	20.7	103	62-138	
cis-1,3-Dichloropropene	20.0	19.4	97	77-120	
Styrene	20.0	20.5	102	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67496.D

Lab ID: LCSD 460-534740/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	17.9	89	3	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	20.6	103	6	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9	89	5	30	59-150	
1,1,2-Trichloroethane	20.0	20.1	101	0	30	78-120	
1,1-Dichloroethane	20.0	19.1	96	2	30	77-123	
1,1-Dichloroethene	20.0	18.2	91	3	30	74-123	
1,2,4-Trichlorobenzene	20.0	19.6	98	11	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	11	30	55-134	
1,2-Dichlorobenzene	20.0	19.4	97	11	30	80-120	
1,2-Dichloroethane	20.0	18.4	92	2	30	76-121	
1,2-Dichloropropane	20.0	19.4	97	0	30	77-123	
1,3-Dichlorobenzene	20.0	18.7	93	11	30	80-120	
1,4-Dichlorobenzene	20.0	19.2	96	10	30	80-120	
2-Butanone (MEK)	100	94.1	94	1	30	64-120	
2-Hexanone	100	93.2	93	4	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	102	102	7	30	78-124	
Acetone	100	111	111	4	30	39-150	
Benzene	20.0	19.4	97	4	30	77-121	
Bromoform	20.0	19.7	99	1	30	53-120	
Bromomethane	20.0	18.8	94	8	30	10-150	
Carbon disulfide	20.0	17.4	87	3	30	69-133	
Carbon tetrachloride	20.0	17.9	89	7	30	70-132	
Chlorobenzene	20.0	18.7	94	5	30	80-120	
Dibromochloromethane	20.0	18.9	94	4	30	73-120	
Chloroethane	20.0	18.6	93	2	30	52-150	
Chloroform	20.0	19.6	98	1	30	80-120	
Chloromethane	20.0	19.0	95	1	30	56-131	
cis-1,2-Dichloroethene	20.0	19.0	95	0	30	80-120	
Cyclohexane	20.0	18.2	91	5	30	56-150	
Bromodichloromethane	20.0	19.3	96	4	30	76-120	
Dichlorodifluoromethane	20.0	18.5	92	1	30	50-131	
Ethylbenzene	20.0	18.2	91	5	30	80-120	
1,2-Dibromoethane	20.0	20.2	101	3	30	80-120	
Isopropylbenzene	20.0	20.3	101	4	30	80-123	
Methyl acetate	40.0	44.0	110	4	30	66-144	
Methyl tert-butyl ether	20.0	20.4	102	0	30	79-122	
Methylcyclohexane	20.0	18.2	91	3	30	61-145	
Methylene Chloride	20.0	19.2	96	3	30	77-123	
Tetrachloroethene	20.0	18.8	94	4	30	78-122	
Toluene	20.0	19.1	96	4	30	80-120	
trans-1,2-Dichloroethene	20.0	18.5	92	8	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67496.D

Lab ID: LCSD 460-534740/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.0	95	0	30	76-120	
Trichloroethene	20.0	17.9	89	1	30	77-120	
Trichlorofluoromethane	20.0	18.0	90	1	30	71-143	
Vinyl chloride	20.0	18.8	94	1	30	62-138	
cis-1,3-Dichloropropene	20.0	19.5	97	2	30	77-120	
Styrene	20.0	19.7	99	1	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67528.D

Lab ID: LCSD 460-534889/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.4	97	3	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.5	97	2	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0	105	0	30	59-150	
1,1,2-Trichloroethane	20.0	19.1	95	2	30	78-120	
1,1-Dichloroethane	20.0	18.8	94	6	30	77-123	
1,1-Dichloroethene	20.0	19.3	97	3	30	74-123	
1,2,4-Trichlorobenzene	20.0	19.6	98	1	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	17.6	88	1	30	55-134	
1,2-Dichlorobenzene	20.0	20.3	102	1	30	80-120	
1,2-Dichloroethane	20.0	17.1	85	5	30	76-121	
1,2-Dichloropropane	20.0	19.5	98	0	30	77-123	
1,3-Dichlorobenzene	20.0	19.9	99	2	30	80-120	
1,4-Dichlorobenzene	20.0	19.8	99	2	30	80-120	
2-Butanone (MEK)	100	93.9	94	5	30	64-120	
2-Hexanone	100	93.5	94	2	30	71-125	
4-Methyl-2-pentanone (MIBK)	100	108	108	0	30	78-124	
Acetone	100	92.2	92	6	30	39-150	
Benzene	20.0	20.1	100	3	30	77-121	
Bromoform	20.0	18.7	94	4	30	53-120	
Bromomethane	20.0	17.7	88	13	30	10-150	
Carbon disulfide	20.0	18.7	94	6	30	69-133	
Carbon tetrachloride	20.0	19.8	99	3	30	70-132	
Chlorobenzene	20.0	19.2	96	3	30	80-120	
Dibromochloromethane	20.0	18.3	92	3	30	73-120	
Chloroethane	20.0	18.0	90	5	30	52-150	
Chloroform	20.0	19.6	98	3	30	80-120	
Chloromethane	20.0	17.5	88	13	30	56-131	
cis-1,2-Dichloroethene	20.0	19.4	97	6	30	80-120	
Cyclohexane	20.0	20.5	103	3	30	56-150	
Bromodichloromethane	20.0	18.4	92	3	30	76-120	
Dichlorodifluoromethane	20.0	19.5	98	10	30	50-131	
Ethylbenzene	20.0	18.5	93	4	30	80-120	
1,2-Dibromoethane	20.0	19.4	97	1	30	80-120	
Isopropylbenzene	20.0	20.6	103	3	30	80-123	
Methyl acetate	40.0	39.3	98	2	30	66-144	
Methyl tert-butyl ether	20.0	18.6	93	3	30	79-122	
Methylcyclohexane	20.0	20.2	101	7	30	61-145	
Methylene Chloride	20.0	19.0	95	3	30	77-123	
Tetrachloroethene	20.0	19.8	99	3	30	78-122	
Toluene	20.0	19.7	99	2	30	80-120	
trans-1,2-Dichloroethene	20.0	19.0	95	5	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: F67528.D

Lab ID: LCSD 460-534889/5 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.3	92	4	30	76-120	
Trichloroethene	20.0	19.2	96	1	30	77-120	
Trichlorofluoromethane	20.0	19.1	95	11	30	71-143	
Vinyl chloride	20.0	18.2	91	13	30	62-138	
cis-1,3-Dichloropropene	20.0	18.7	93	4	30	77-120	
Styrene	20.0	20.0	100	2	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67500.D Lab Sample ID: MB 460-534740/9

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS6 Date Analyzed: 07/09/2018 20:53

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534740/4	F67495.D	07/09/2018 18:55
	LCSD 460-534740/5	F67496.D	07/09/2018 19:19
PDI-TB-06262018	460-159314-1	F67514.D	07/10/2018 02:22
PDI-FB-06262018	460-159314-2	F67515.D	07/10/2018 02:45
PDI-MW-161-1-I-06262018	460-159314-4	F67516.D	07/10/2018 03:09

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67531.D Lab Sample ID: MB 460-534889/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS6 Date Analyzed: 07/10/2018 08:59

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534889/4	F67527.D	07/10/2018 07:24
	LCSD 460-534889/5	F67528.D	07/10/2018 07:48
PDI-16-WG-75-06262018	460-159314-3	F67532.D	07/10/2018 09:23

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67406.D BFB Injection Date: 07/08/2018

Instrument ID: CVOAMS6 BFB Injection Time: 07:26

Analysis Batch No.: 534406

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.6	
75	30.0 - 60.0 % of mass 95	44.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.4	
173	Less than 2.0 % of mass 174	0.6	(0.7) 1
174	50.0 - 120.00 % of mass 95	84.2	
175	5.0 - 9.0 % of mass 174	7.0	(8.4) 1
176	95.0 - 101.0 % of mass 174	82.5	(98.0) 1
177	5.0 - 9.0 % of mass 176	4.8	(5.8) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-534406/3	F67408.D	07/08/2018	08:14
	STD1 460-534406/4	F67409.D	07/08/2018	08:37
	STD5 460-534406/5	F67410.D	07/08/2018	09:01
	STD20 460-534406/6	F67411.D	07/08/2018	09:24
	STD50 460-534406/7	F67412.D	07/08/2018	09:47
	STD200 460-534406/8	F67413.D	07/08/2018	10:11
	STD500 460-534406/9	F67414.D	07/08/2018	10:34

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67492.D BFB Injection Date: 07/09/2018

Instrument ID: CVOAMS6 BFB Injection Time: 17:40

Analysis Batch No.: 534740

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.5	
75	30.0 - 60.0 % of mass 95	48.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	77.5	
175	5.0 - 9.0 % of mass 174	6.4	(8.3) 1
176	95.0 - 101.0 % of mass 174	77.8	(100.3) 1
177	5.0 - 9.0 % of mass 176	5.5	(7.0) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534740/3	F67494.D	07/09/2018	18:27
	LCS 460-534740/4	F67495.D	07/09/2018	18:55
	LCSD 460-534740/5	F67496.D	07/09/2018	19:19
	MB 460-534740/9	F67500.D	07/09/2018	20:53
PDI-TB-06262018	460-159314-1	F67514.D	07/10/2018	02:22
PDI-FB-06262018	460-159314-2	F67515.D	07/10/2018	02:45
PDI-MW-161-1-I-06262018	460-159314-4	F67516.D	07/10/2018	03:09

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: F67524.D BFB Injection Date: 07/10/2018

Instrument ID: CVOAMS6 BFB Injection Time: 06:12

Analysis Batch No.: 534889

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.9	
75	30.0 - 60.0 % of mass 95	45.9	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.5	(0.6) 1
174	50.0 - 120.00 % of mass 95	85.2	
175	5.0 - 9.0 % of mass 174	7.1	(8.3) 1
176	95.0 - 101.0 % of mass 174	81.0	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.3	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534889/3	F67526.D	07/10/2018	06:57
	LCS 460-534889/4	F67527.D	07/10/2018	07:24
	LCSD 460-534889/5	F67528.D	07/10/2018	07:48
	MB 460-534889/8	F67531.D	07/10/2018	08:59
PDI-16-WG-75-06262018	460-159314-3	F67532.D	07/10/2018	09:23

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534740/3 Date Analyzed: 07/09/2018 18:27

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67494.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		137451	3.20	172110	4.24	376714	5.32
UPPER LIMIT		274902	3.70	344220	4.74	753428	5.82
LOWER LIMIT		68726	2.70	86055	3.74	188357	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534740/4		150018	3.20	173705	4.24	402880	5.32
LCSD 460-534740/5		145161	3.19	177548	4.24	385357	5.32
MB 460-534740/9		133811	3.19	149347	4.25	372443	5.32
460-159314-1	PDI-TB-06262018	104446	3.19	126045	4.24	329125	5.32
460-159314-2	PDI-FB-06262018	113086	3.19	127161	4.25	339178	5.32
460-159314-4	PDI-MW-161-1-I-06262018	116721	3.19	128909	4.24	344686	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534740/3 Date Analyzed: 07/09/2018 18:27

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67494.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		13210	6.03	265379	8.76	151135	10.91
UPPER LIMIT		26420	6.53	530758	9.26	302270	11.41
LOWER LIMIT		6605	5.53	132690	8.26	75568	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534740/4		12144	6.03	276311	8.76	151795	10.91
LCSD 460-534740/5		13097	6.03	270437	8.76	159938	10.91
MB 460-534740/9		11252	6.02	244887	8.76	136955	10.91
460-159314-1	PDI-TB-06262018	6781	6.05	222905	8.76	125058	10.91
460-159314-2	PDI-FB-06262018	6989	6.04	227972	8.76	128297	10.91
460-159314-4	PDI-MW-161-1-I-06262018	9397	6.05	231638	8.76	130155	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534889/3 Date Analyzed: 07/10/2018 06:57

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67526.D Heated Purge: (Y/N) N

Calibration ID: 70046

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		121188	3.20	145426	4.24	357893	5.32
UPPER LIMIT		242376	3.70	290852	4.74	715786	5.82
LOWER LIMIT		60594	2.70	72713	3.74	178947	4.82
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534889/4		111600	3.20	147661	4.24	369968	5.32
LCSD 460-534889/5		114435	3.19	146699	4.24	378570	5.32
MB 460-534889/8		130292	3.20	141829	4.25	365448	5.33
460-159314-3	PDI-16-WG-75-06262018	119259	3.20	140232	4.24	358552	5.32

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-534889/3 Date Analyzed: 07/10/2018 06:57

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): F67526.D Heated Purge: (Y/N) N

Calibration ID: 70046

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		12896	6.02	252815	8.76	151493	10.91
UPPER LIMIT		25792	6.52	505630	9.26	302986	11.41
LOWER LIMIT		6448	5.52	126408	8.26	75747	10.41
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534889/4		9519	6.04	257849	8.76	149452	10.91
LCSD 460-534889/5		10575	6.02	265711	8.76	152234	10.91
MB 460-534889/8		11293	6.04	241867	8.76	134703	10.91
460-159314-3	PDI-16-WG-75-06262018	10158	6.04	239507	8.76	130905	10.91

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-TB-06262018 | Lab Sample ID: 460-159314-1

Matrix: Water | Lab File ID: F67514.D

Analysis Method: 8260C | Date Collected: 06/26/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-TB-06262018 | Lab Sample ID: 460-159314-1

Matrix: Water | Lab File ID: F67514.D

Analysis Method: 8260C | Date Collected: 06/26/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:22

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D
Lims ID: 460-159314-B-1
Client ID: PDI-TB-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 02:22:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-1
Misc. Info.: 460-0075142-023
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:32:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.185	3.201	-0.016	0	104446	1000.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	126045	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	89249	54.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	91815	52.4	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	329125	50.0	
* 67 1,4-Dioxane-d8	96	6.052	6.028	0.024	0	6781	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	98	312910	50.9	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	222905	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	94	85450	47.5	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	95	125058	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

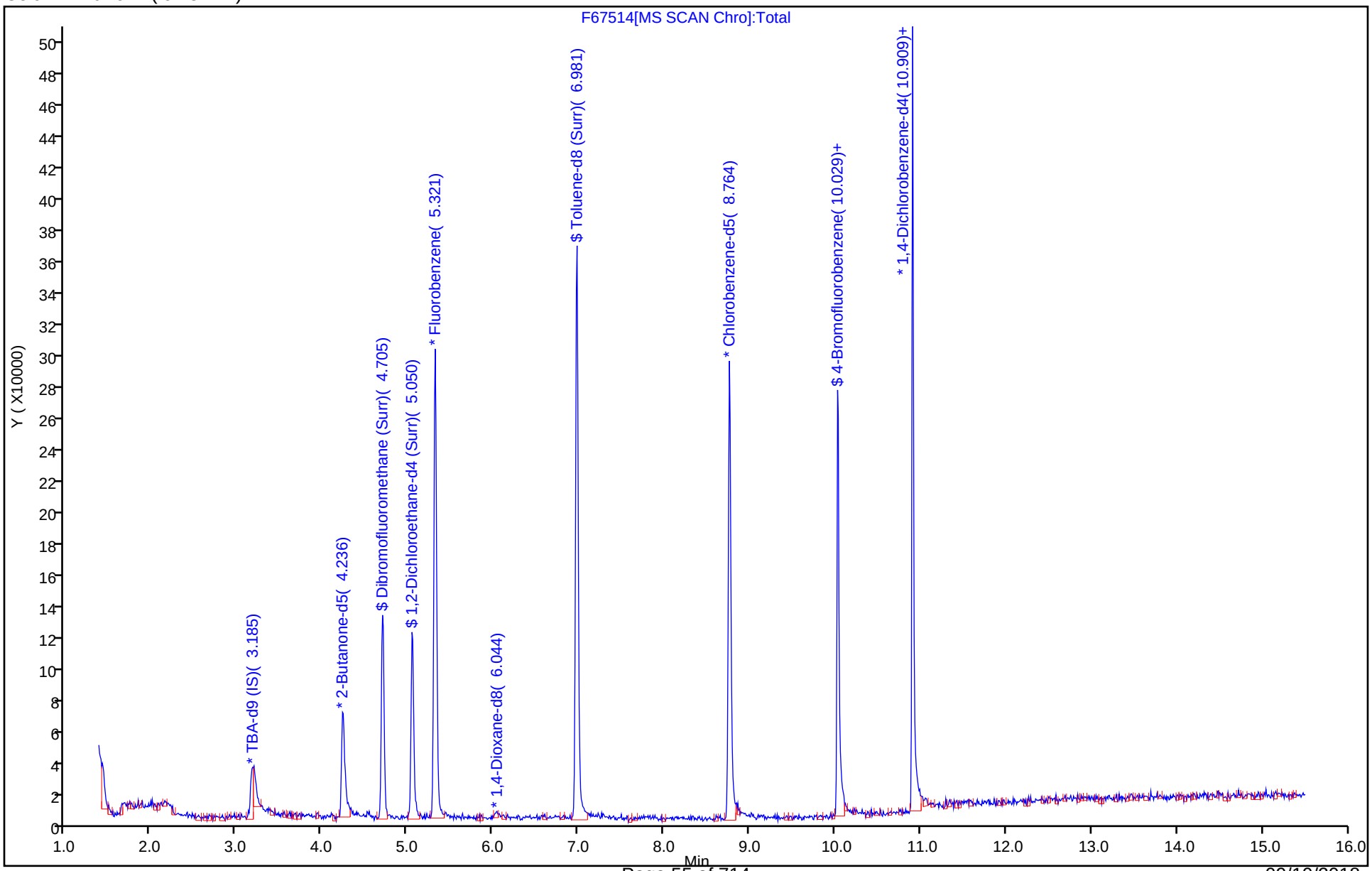
Report Date: 10-Jul-2018 06:34:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D

Injection Date:	10-Jul-2018 02:22:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-1	Lab Sample ID:	460-159314-1	Worklist Smp#:	23
Client ID:	PDI-TB-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



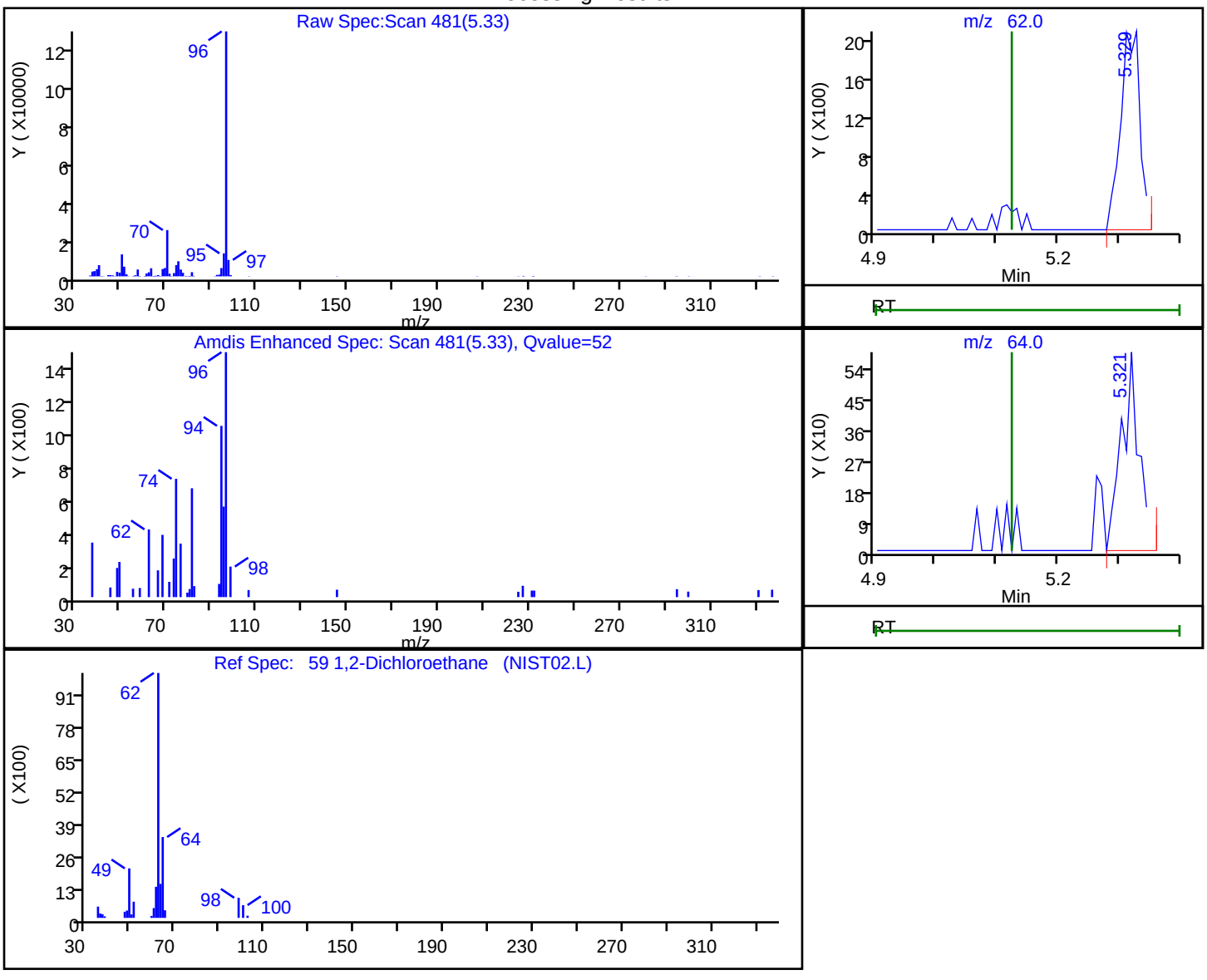
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67514.D		
Injection Date:	10-Jul-2018 02:22:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-1	Lab Sample ID:	460-159314-1
Client ID:	PDI-TB-06262018		
Operator ID:		ALS Bottle#:	22 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.33	62.00	4613	0.947714
5.32	64.00	1209	

Reviewer: moroneyc, 10-Jul-2018 06:31:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-FB-06262018 | Lab Sample ID: 460-159314-2

Matrix: Water | Lab File ID: F67515.D

Analysis Method: 8260C | Date Collected: 06/26/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	8.0		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	15		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-FB-06262018 | Lab Sample ID: 460-159314-2

Matrix: Water | Lab File ID: F67515.D

Analysis Method: 8260C | Date Collected: 06/26/2018 08:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 02:45

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	4.5		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	96		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D
Lims ID: 460-159314-B-2
Client ID: PDI-FB-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 02:45:30 ALS Bottle#: 23 Worklist Smp#: 24
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-2
Misc. Info.: 460-0075142-024
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:32:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.848	2.839	0.009	88	10740	14.8	
27 Methylene Chloride	84	3.193	3.185	0.008	89	21854	4.53	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	113086	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	127161	250.0	
41 2-Butanone (MEK)	72	4.310	4.286	0.024	76	2693	7.99	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	91006	53.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	95141	52.7	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	339178	50.0	
* 67 1,4-Dioxane-d8	96	6.044	6.028	0.016	0	6989	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	310672	49.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	227972	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	96	88050	47.8	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	128297	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

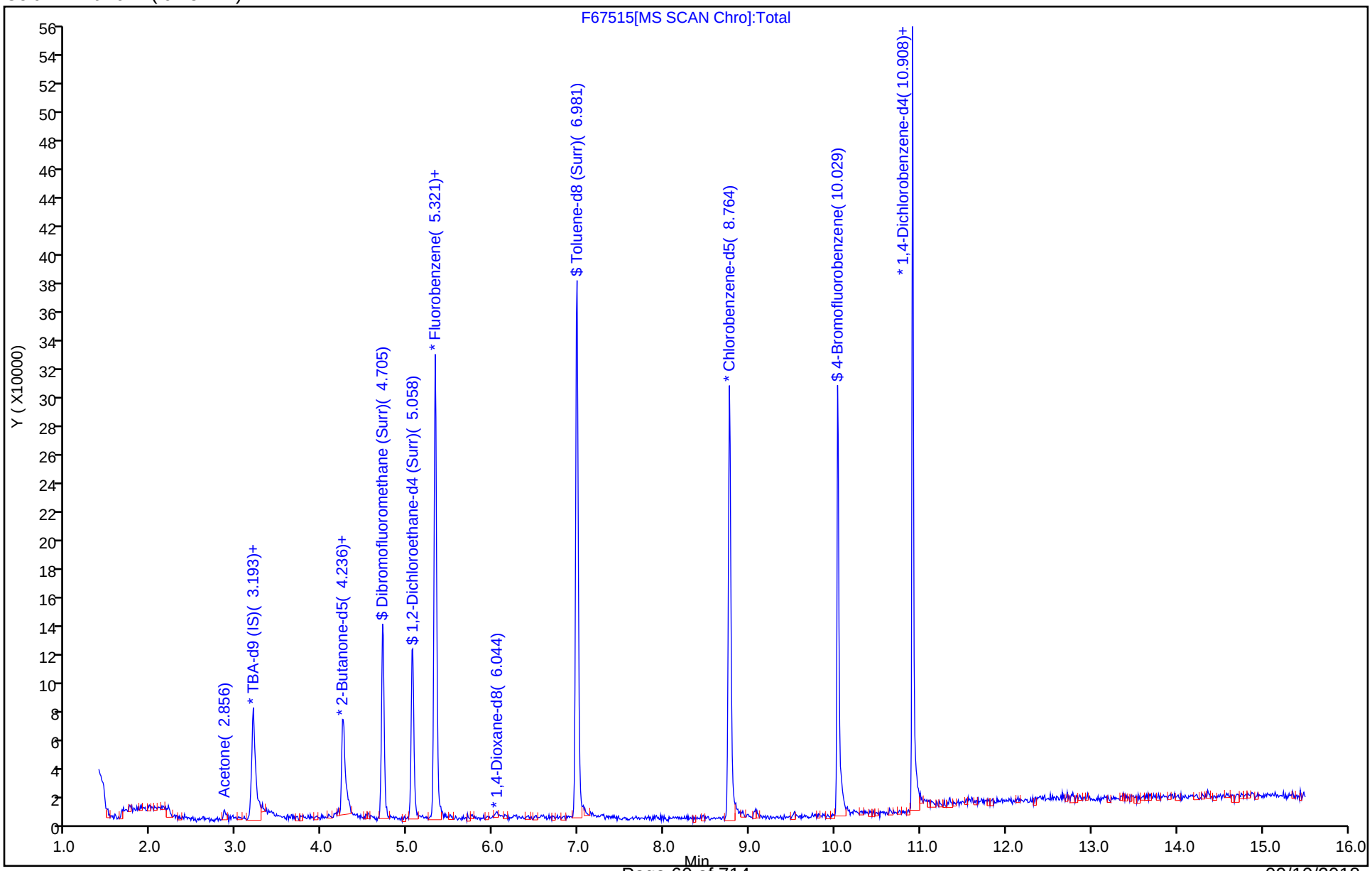
Report Date: 10-Jul-2018 06:34:42 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D

Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2	Worklist Smp#:	24
Client ID:	PDI-FB-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

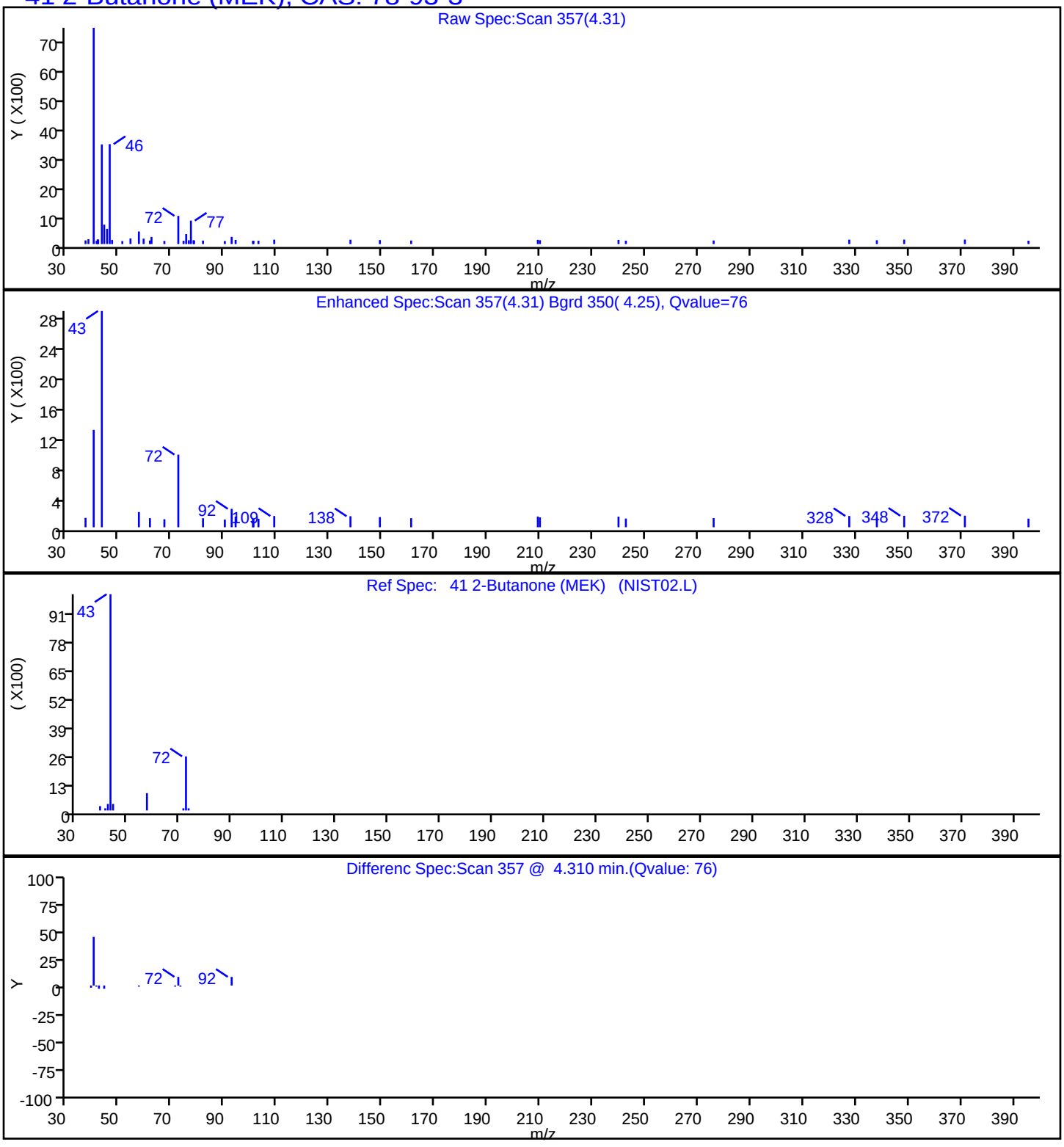
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D				
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2		
Client ID:	PDI-FB-06262018				
Operator ID:		ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

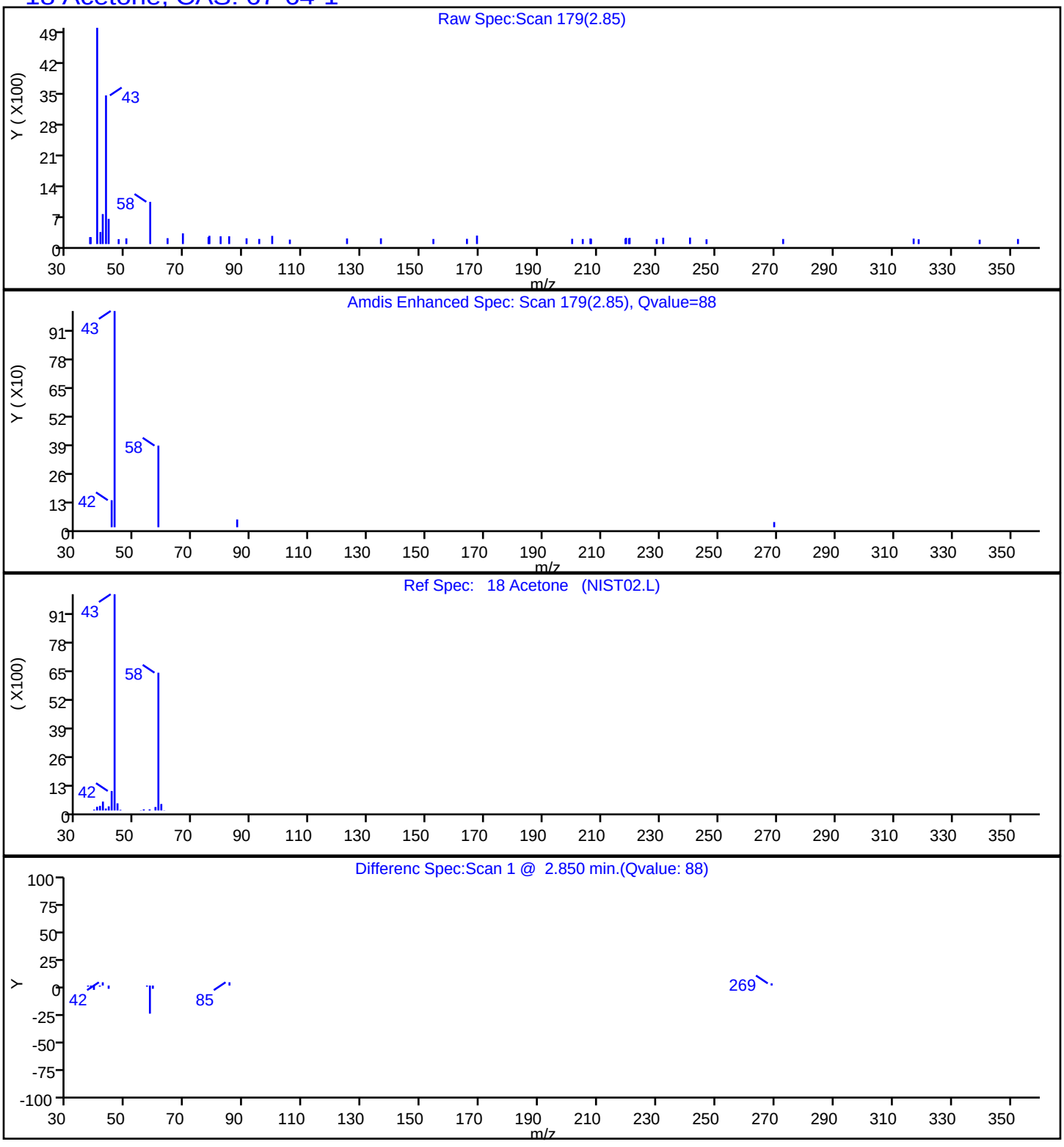
41 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

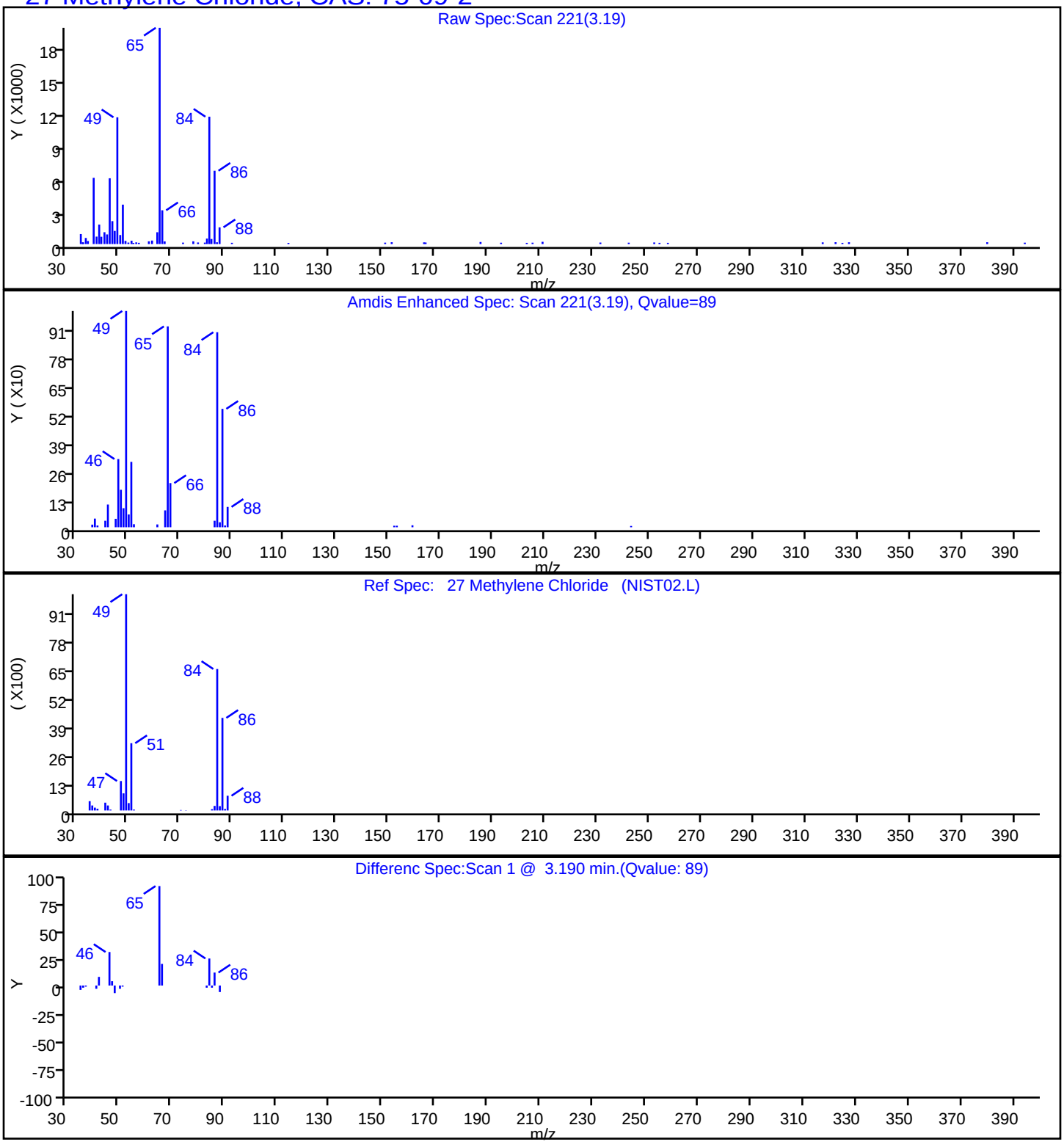
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

27 Methylene Chloride, CAS: 75-09-2



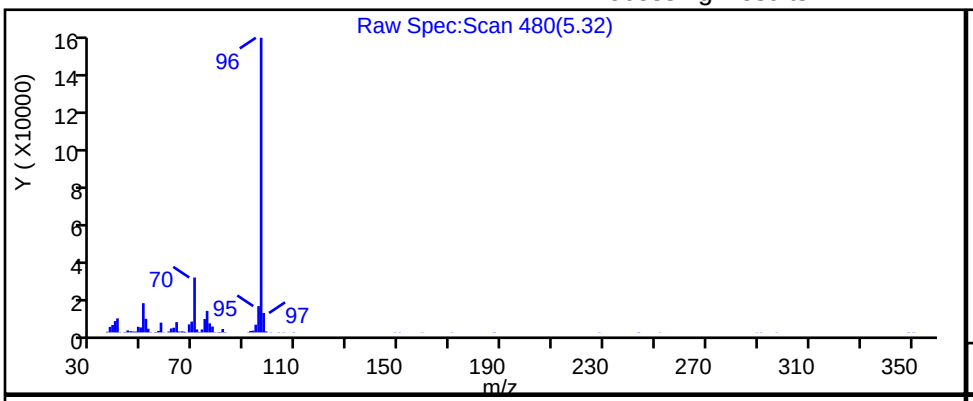
User Disabled Compound Report

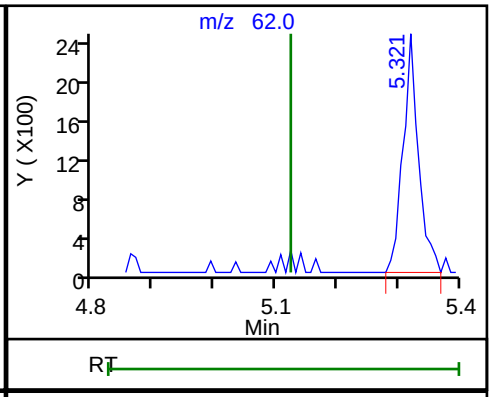
TestAmerica Edison

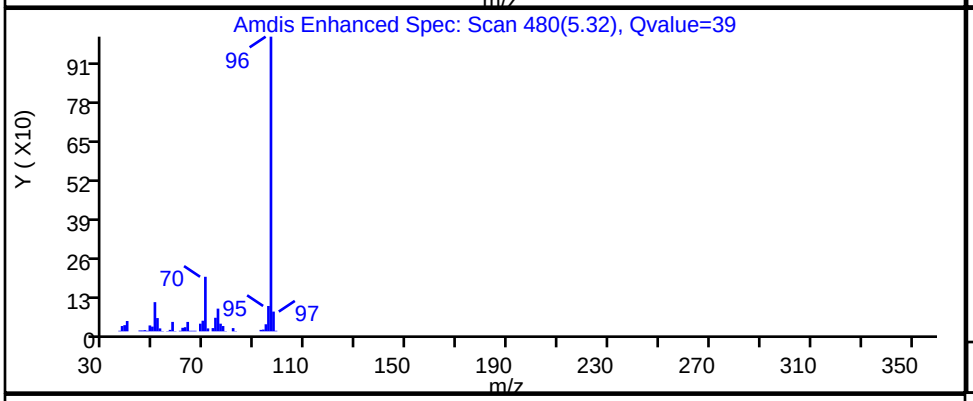
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67515.D		
Injection Date:	10-Jul-2018 02:45:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-2	Lab Sample ID:	460-159314-2
Client ID:	PDI-FB-06262018		
Operator ID:		ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

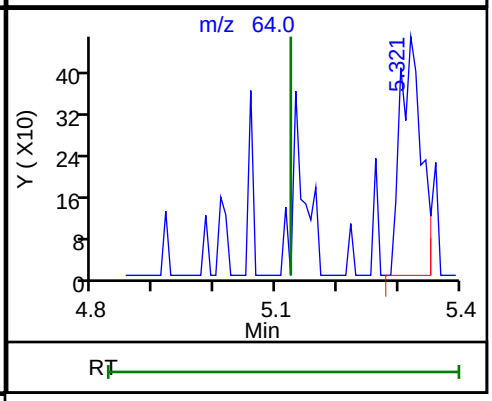
59 1,2-Dichloroethane, CAS: 107-06-2

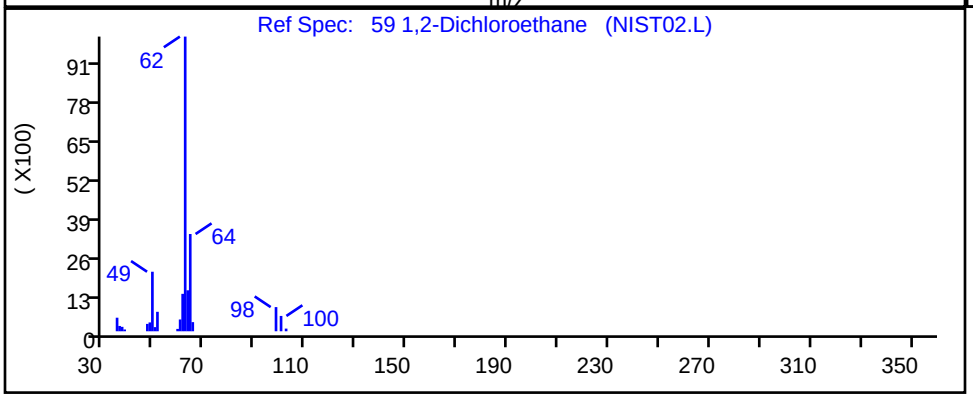
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4325	0.862210
5.32	64.00	1108	

Reviewer: moroneyc, 10-Jul-2018 06:32:14

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-16-WG-75-06262018 | Lab Sample ID: 460-159314-3

Matrix: Water | Lab File ID: F67532.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	7.7		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	1.9		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-16-WG-75-06262018 | Lab Sample ID: 460-159314-3

Matrix: Water | Lab File ID: F67532.D

Analysis Method: 8260C | Date Collected: 06/26/2018 10:30

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:23

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	2.7		1.0	0.25
108-88-3	Toluene	0.58	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	85		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	99		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Lims ID: 460-159314-C-3
Client ID: PDI-16-WG-75-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 09:23:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-C-3
Misc. Info.: 460-0075172-009
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:40:53 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: moroneyc Date: 10-Jul-2018 11:31:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.856	2.848	0.008	62	6190	7.74	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	119259	1000.0	
* 38 2-Butanone-d5	46	4.244	4.236	0.008	0	140232	250.0	
40 cis-1,2-Dichloroethene	96	4.277	4.278	-0.001	76	9842	1.91	
48 Chloroform	83	4.557	4.549	0.008	60	2148	0.2919	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	96	10486	1.60	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	97	96449	54.0	
55 Benzene	78	5.041	5.033	0.008	40	1783	0.1067	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	97094	50.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	358552	50.0	
63 Trichloroethene	95	5.674	5.674	0.000	98	377088	85.3	
* 67 1,4-Dioxane-d8	96	6.044	6.019	0.025	0	10158	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	338221	51.2	
79 Toluene	91	7.055	7.055	0.000	56	9851	0.5830	
83 Tetrachloroethene	166	7.671	7.663	0.008	96	11226	2.72	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	239507	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	94	95236	49.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	94	130905	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

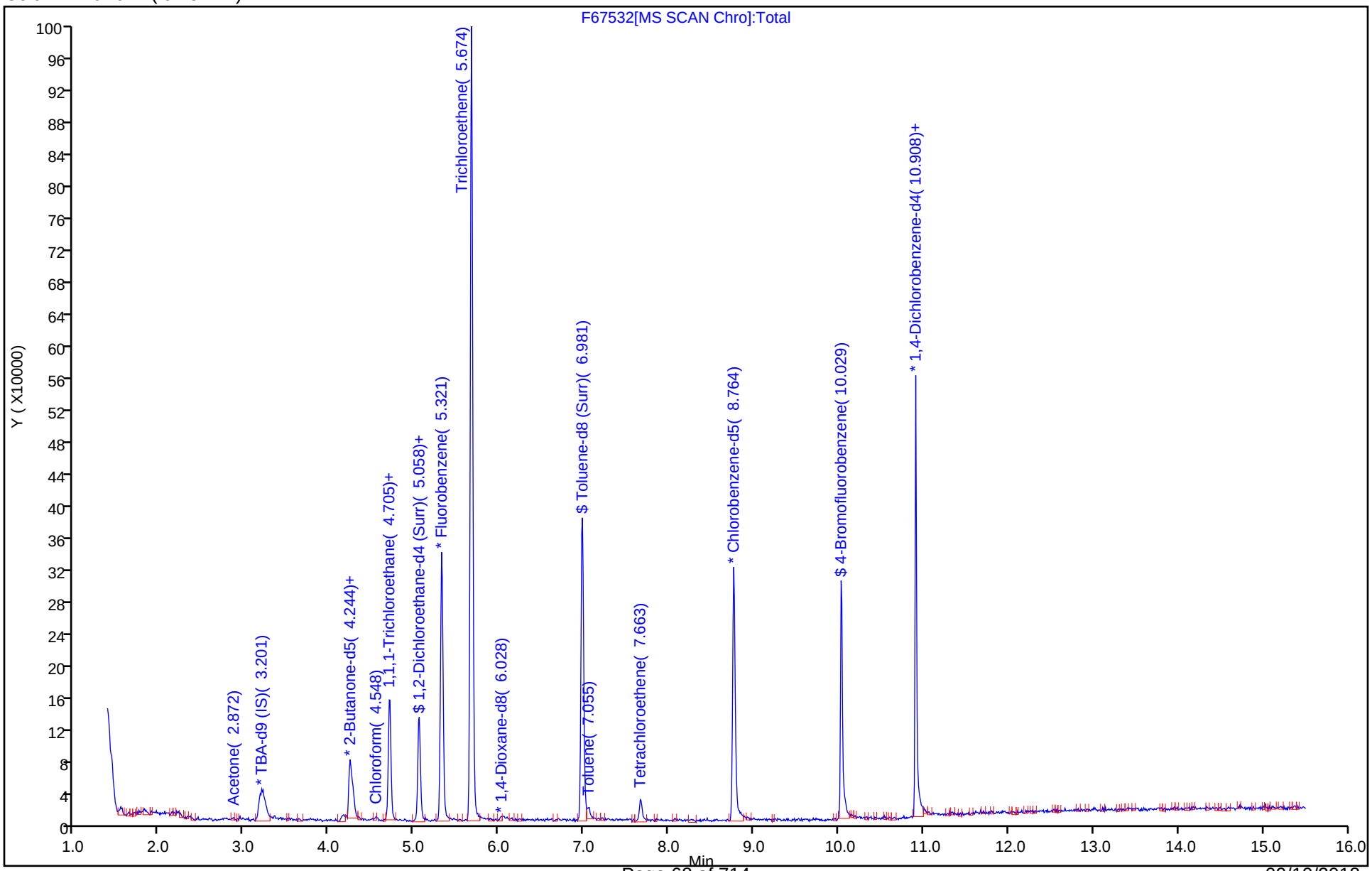
Report Date: 10-Jul-2018 13:41:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D

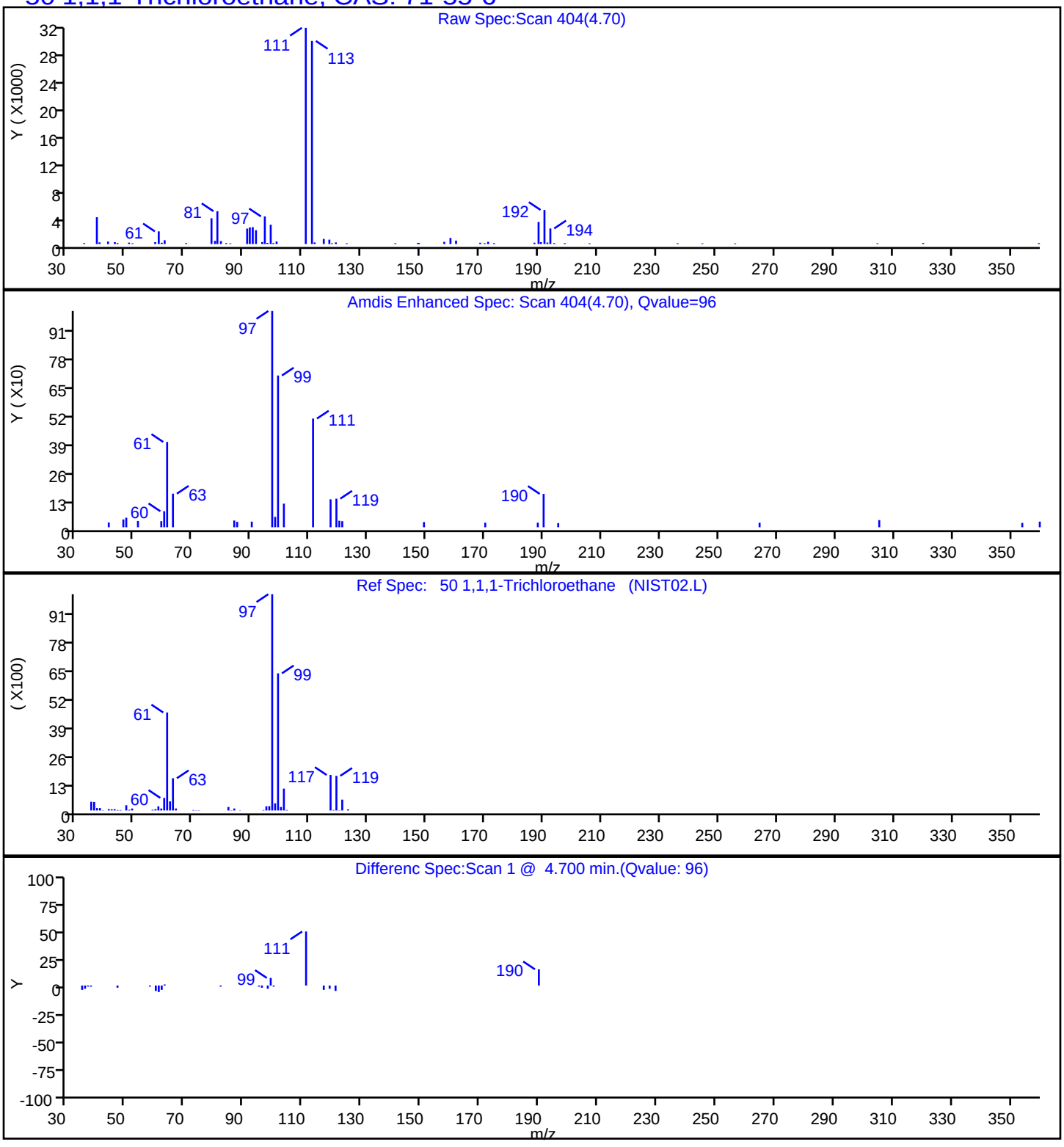
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3	Worklist Smp#:	9
Client ID:	PDI-16-WG-75-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Injection Date: 10-Jul-2018 09:23:30 Instrument ID: CVOAMS6
Lims ID: 460-159314-C-3 Lab Sample ID: 460-159314-3
Client ID: PDI-16-WG-75-06262018
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

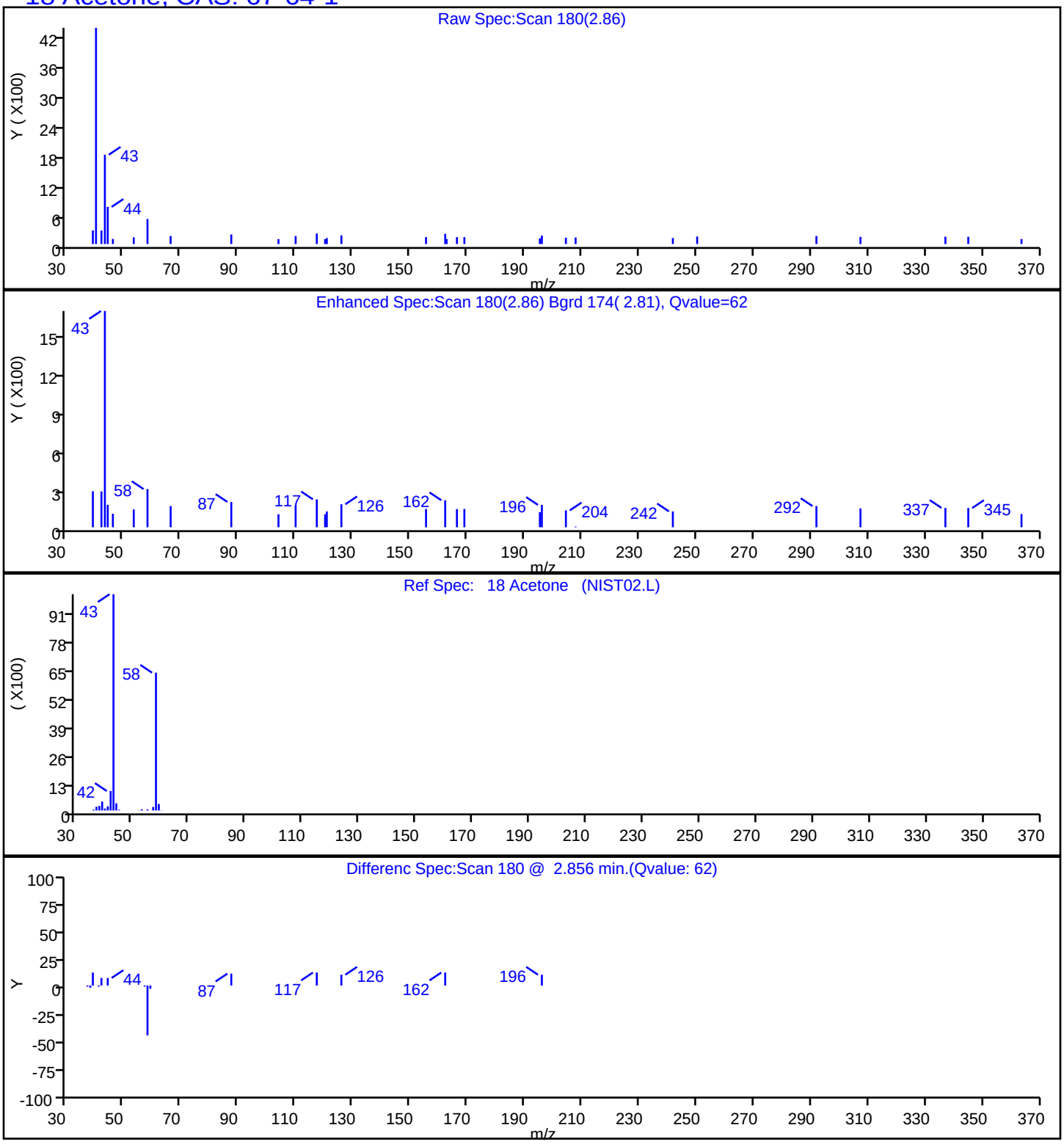
50 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

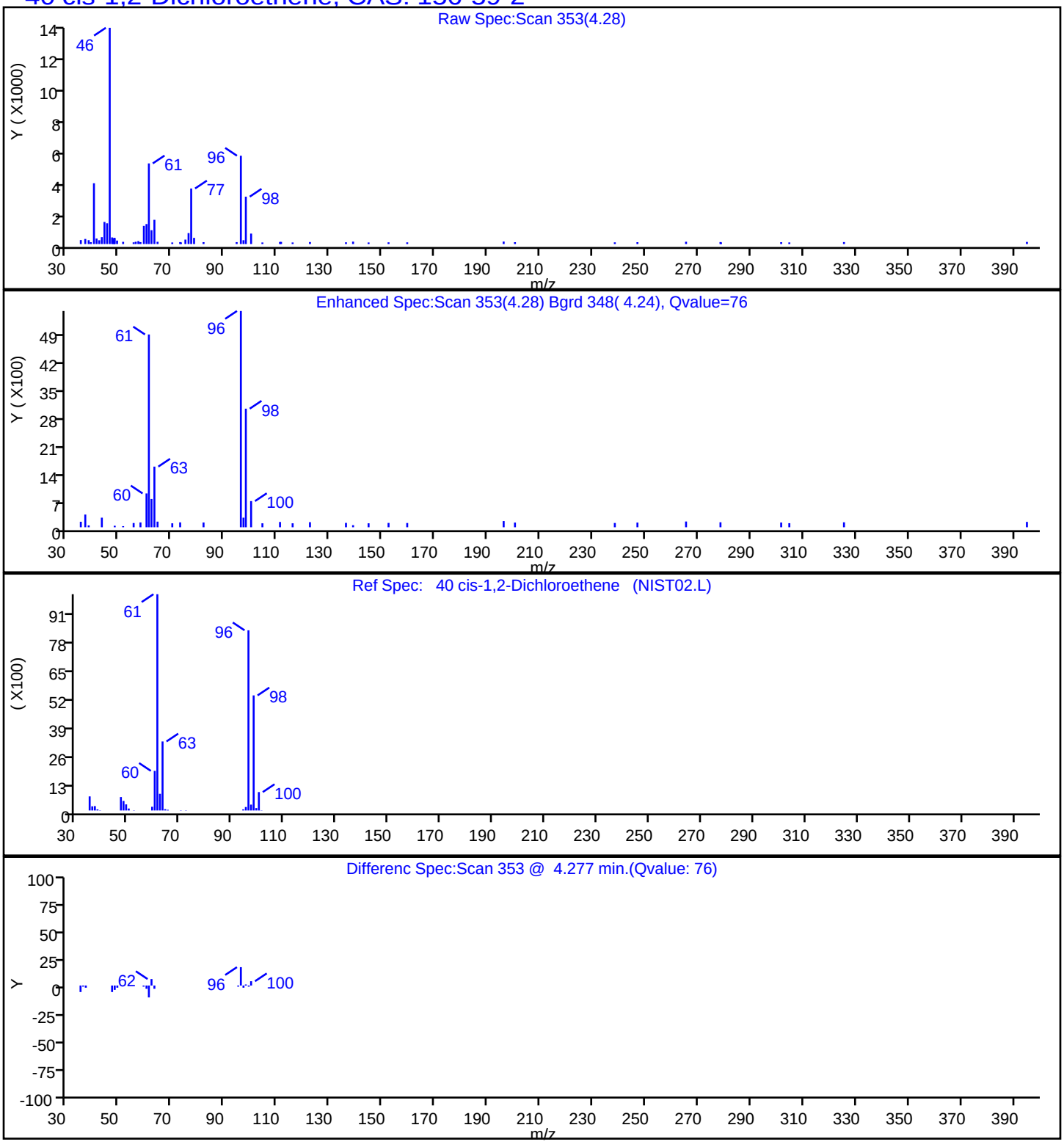
18 Acetone, CAS: 67-64-1



TestAmerica Edison

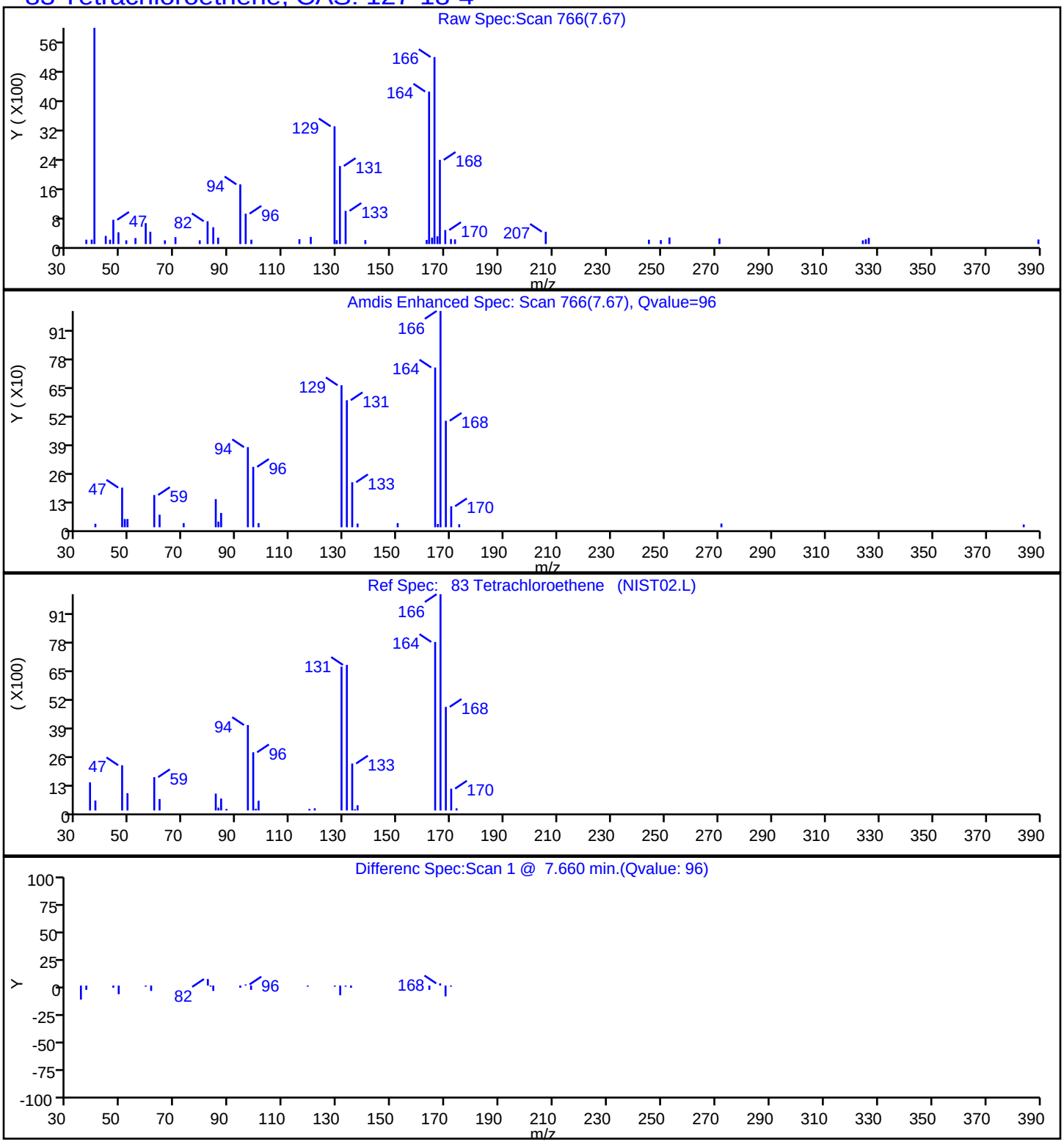
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

40 cis-1,2-Dichloroethene, CAS: 156-59-2



Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Injection Date: 10-Jul-2018 09:23:30 Instrument ID: CVOAMS6
Lims ID: 460-159314-C-3 Lab Sample ID: 460-159314-3
Client ID: PDI-16-WG-75-06262018
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

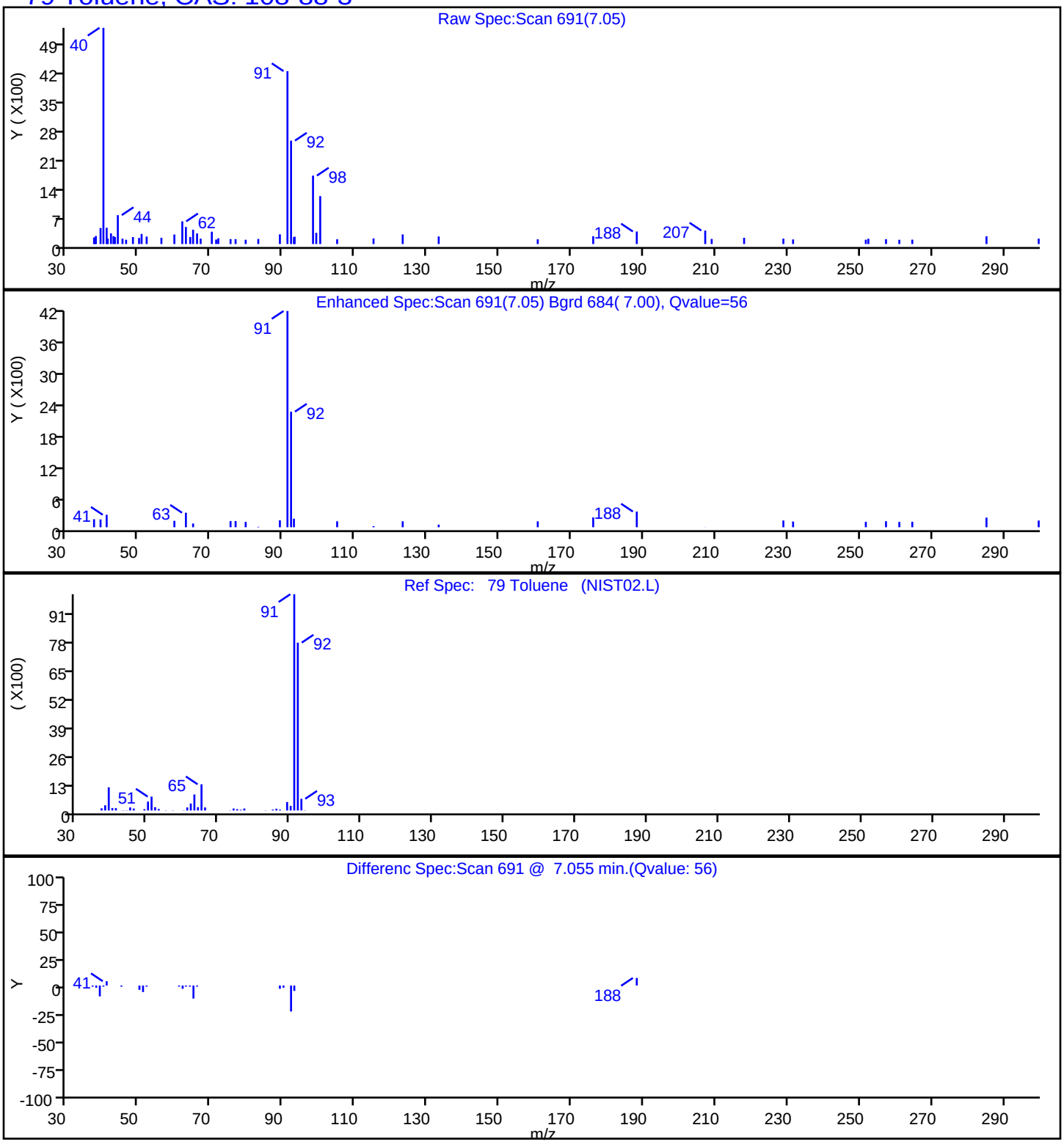
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

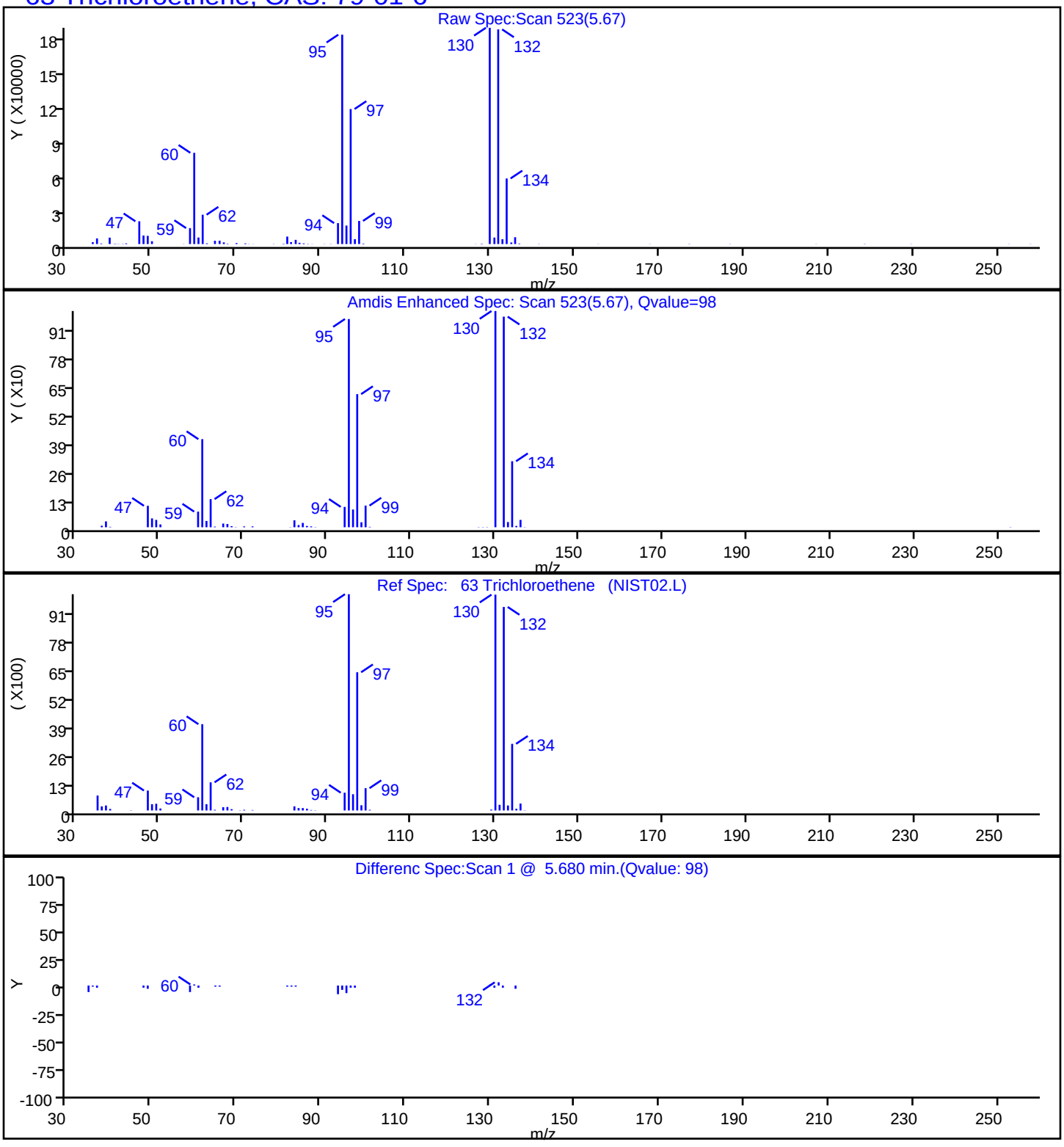
79 Toluene, CAS: 108-88-3



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D
Injection Date: 10-Jul-2018 09:23:30 Instrument ID: CVOAMS6
Lims ID: 460-159314-C-3 Lab Sample ID: 460-159314-3
Client ID: PDI-16-WG-75-06262018
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

63 Trichloroethene, CAS: 79-01-6



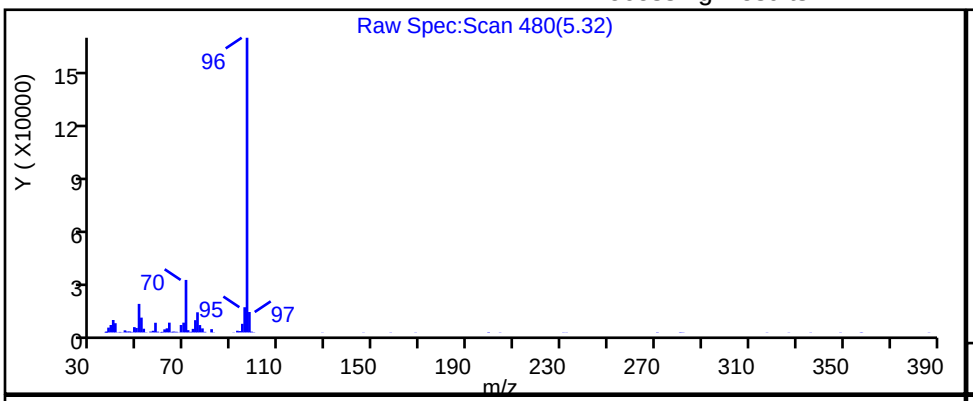
User Disabled Compound Report

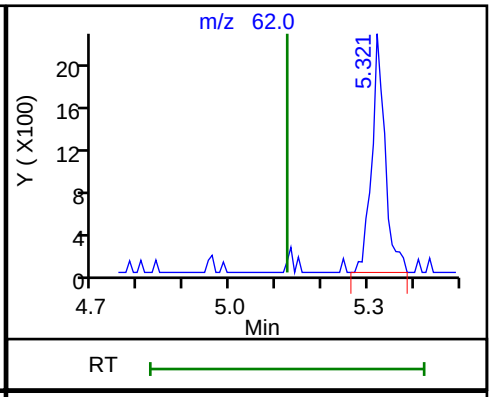
TestAmerica Edison

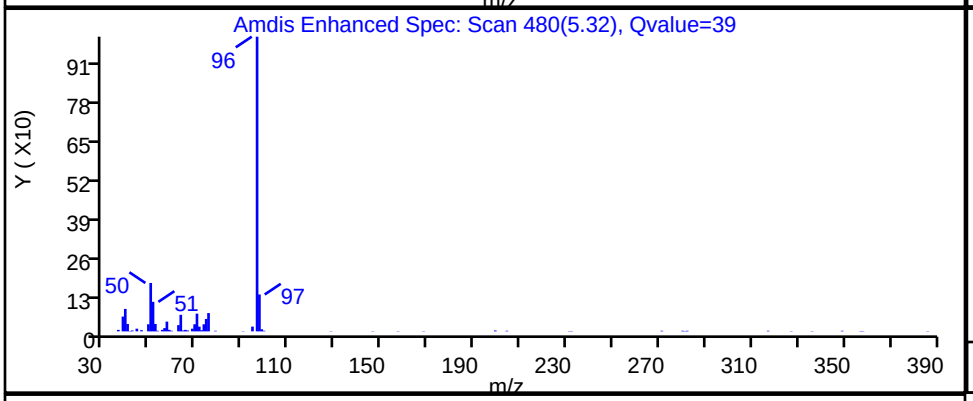
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

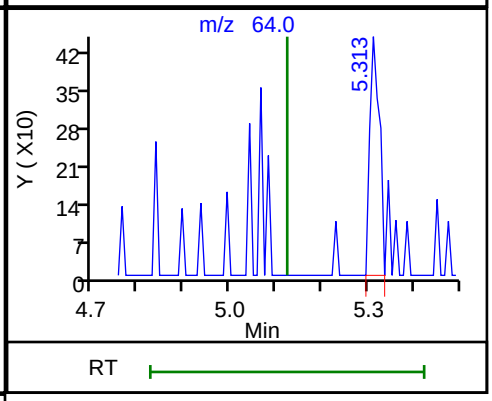
59 1,2-Dichloroethane, CAS: 107-06-2

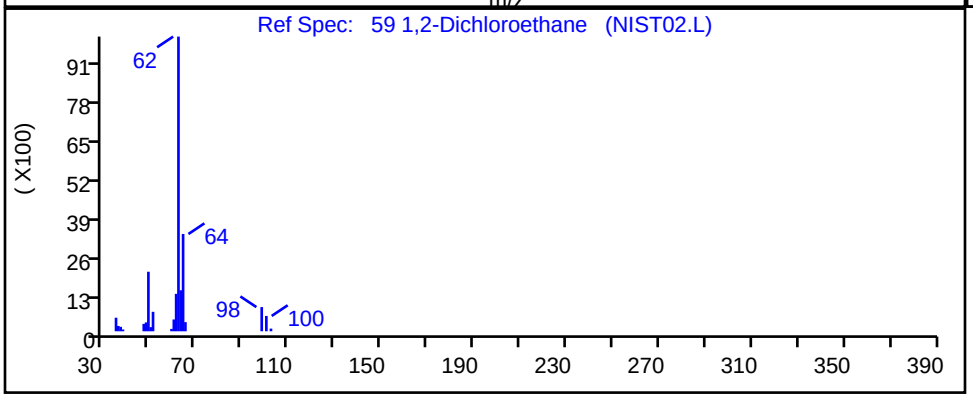
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4643	0.875591
5.31	64.00	653	

Reviewer: moroneyc, 10-Jul-2018 11:31:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

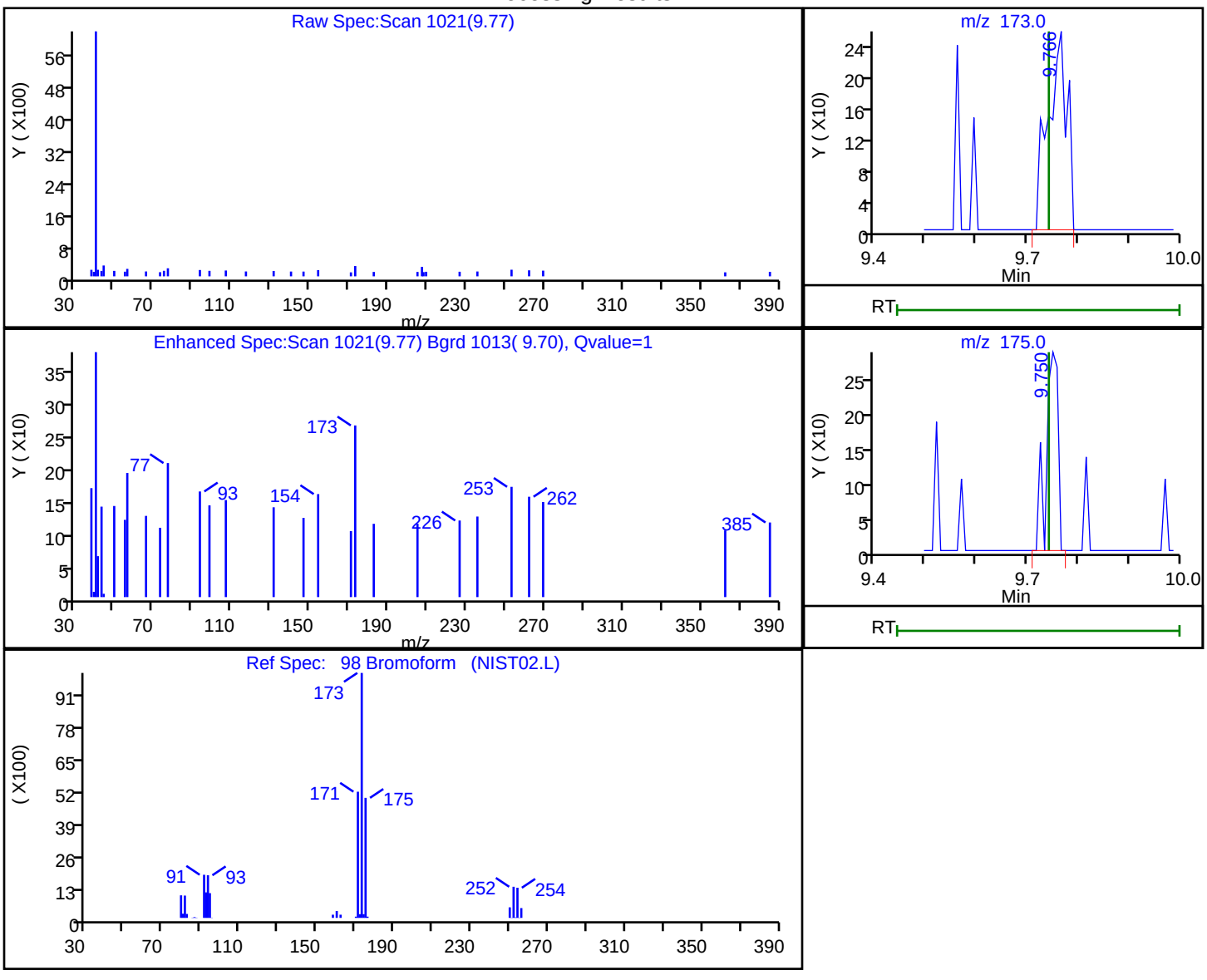
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

98 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
9.77	173.00	670	0.286595
9.75	175.00	462	

Reviewer: moroneyc, 10-Jul-2018 11:31:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

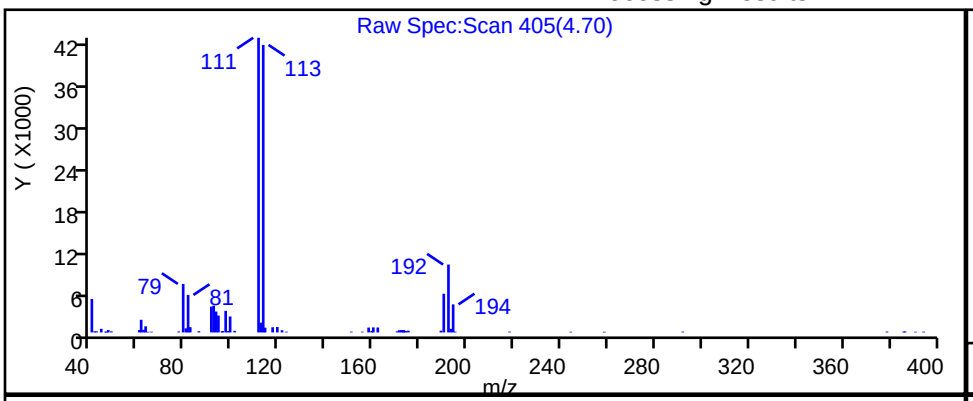
User Disabled Compound Report

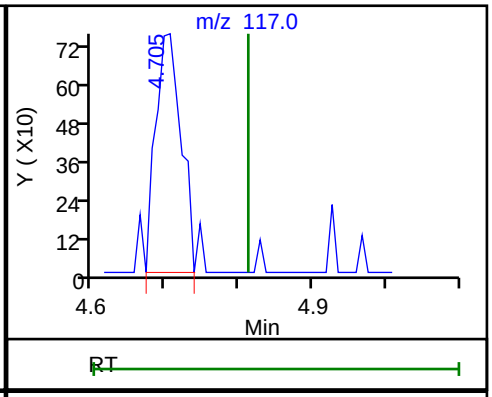
TestAmerica Edison

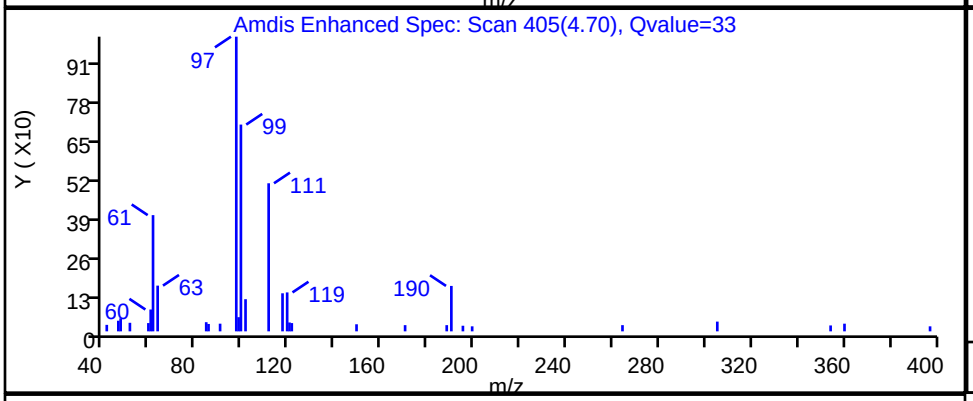
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

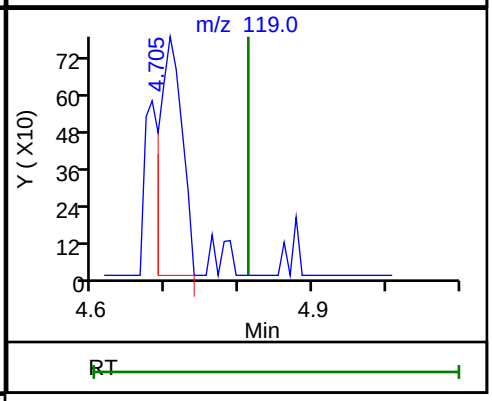
52 Carbon tetrachloride, CAS: 56-23-5

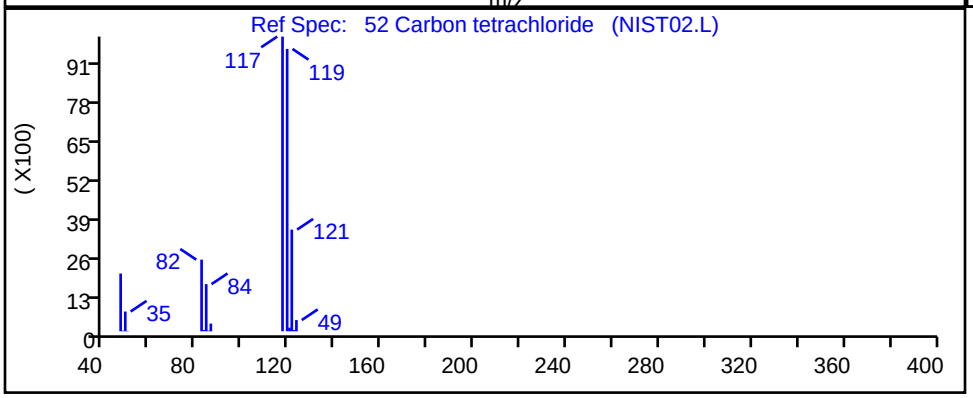
Processing Results











RT	Mass	Response	Amount
4.70	117.00	1821	0.341930
4.70	119.00	1648	

Reviewer: moroneyc, 10-Jul-2018 11:31:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

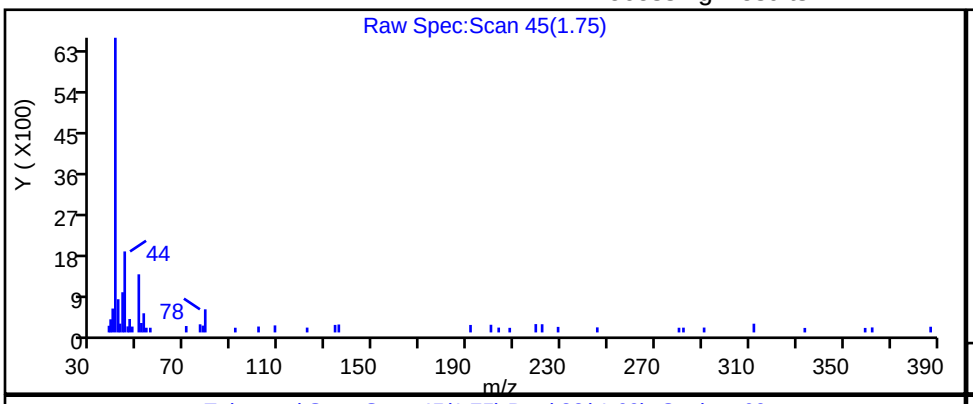
User Disabled Compound Report

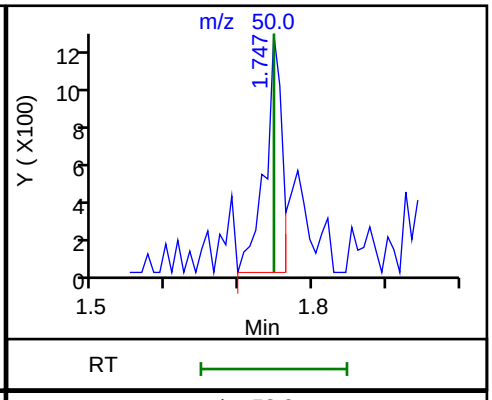
TestAmerica Edison

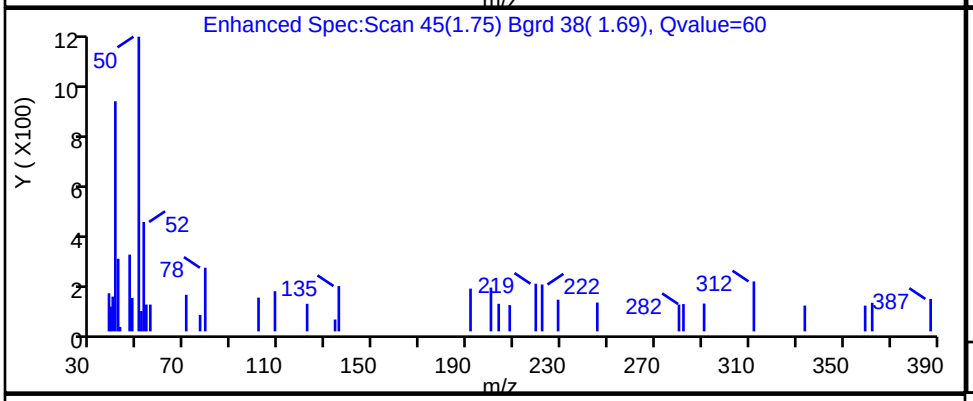
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67532.D				
Injection Date:	10-Jul-2018 09:23:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-C-3	Lab Sample ID:	460-159314-3		
Client ID:	PDI-16-WG-75-06262018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

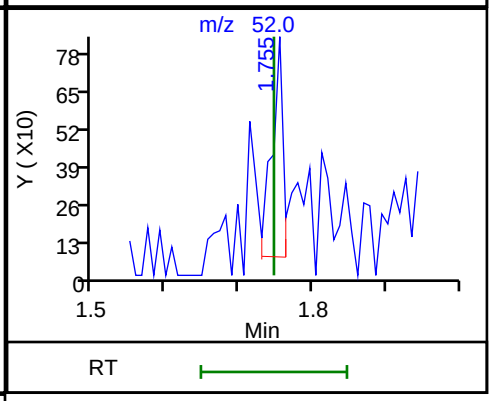
3 Chloromethane, CAS: 74-87-3

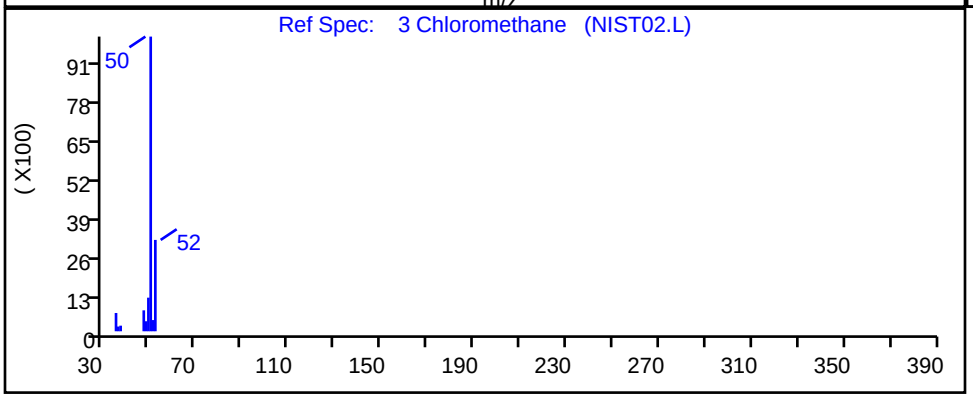
Processing Results











RT	Mass	Response	Amount
1.75	50.00	2040	0.261807
1.75	52.00	824	

Reviewer: moroneyc, 10-Jul-2018 11:31:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: F67516.D

Analysis Method: 8260C | Date Collected: 06/26/2018 11:10

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 03:09

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	1.6		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	7.3		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	13		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 Lab Sample ID: 460-159314-4

Matrix: Water Lab File ID: F67516.D

Analysis Method: 8260C Date Collected: 06/26/2018 11:10

Sample wt/vol: 5(mL) Date Analyzed: 07/10/2018 03:09

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 534740 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	15		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	0.33	J	1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	370		1.0	0.31
75-69-4	Trichlorofluoromethane	1.1		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D
Lims ID: 460-159314-B-4
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 10-Jul-2018 03:09:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159314-B-4
Misc. Info.: 460-0075142-025
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:14:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
9 Trichlorofluoromethane	101	2.371	2.363	0.008	47	7568	1.09	
18 Acetone	43	2.864	2.839	0.025	75	5379	7.32	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	116721	1000.0	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	28	1616	0.1368	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	3	1468	0.3331	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	128909	250.0	
40 cis-1,2-Dichloroethene	96	4.277	4.269	0.008	99	64227	13.0	
48 Chloroform	83	4.548	4.549	-0.001	71	1770	0.2502	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	89	10301	1.63	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	92424	53.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	95949	52.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	344686	50.0	
63 Trichloroethene	95	5.674	5.666	0.008	98	1569587	369.5	
* 67 1,4-Dioxane-d8	96	6.052	6.028	0.024	0	9397	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	324521	50.8	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	59828	15.0	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	231638	50.0	
$ 100 4-Bromofluorobenzene	174	10.037	10.029	0.008	94	91350	48.9	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	95	130155	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

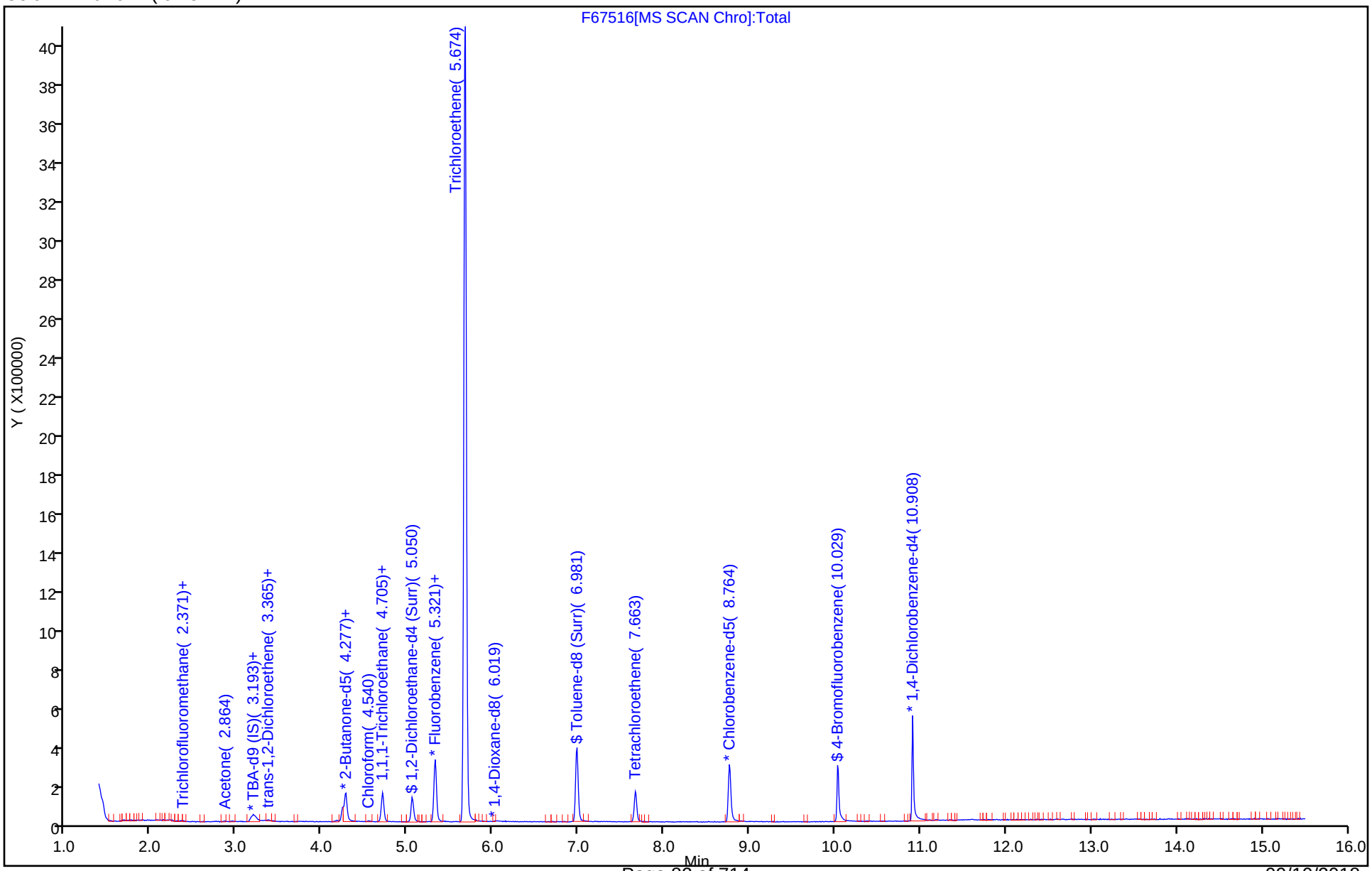
Report Date: 10-Jul-2018 06:34:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D

Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4	Worklist Smp#:	25
Client ID:	PDI-MW-161-1-I-06262018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

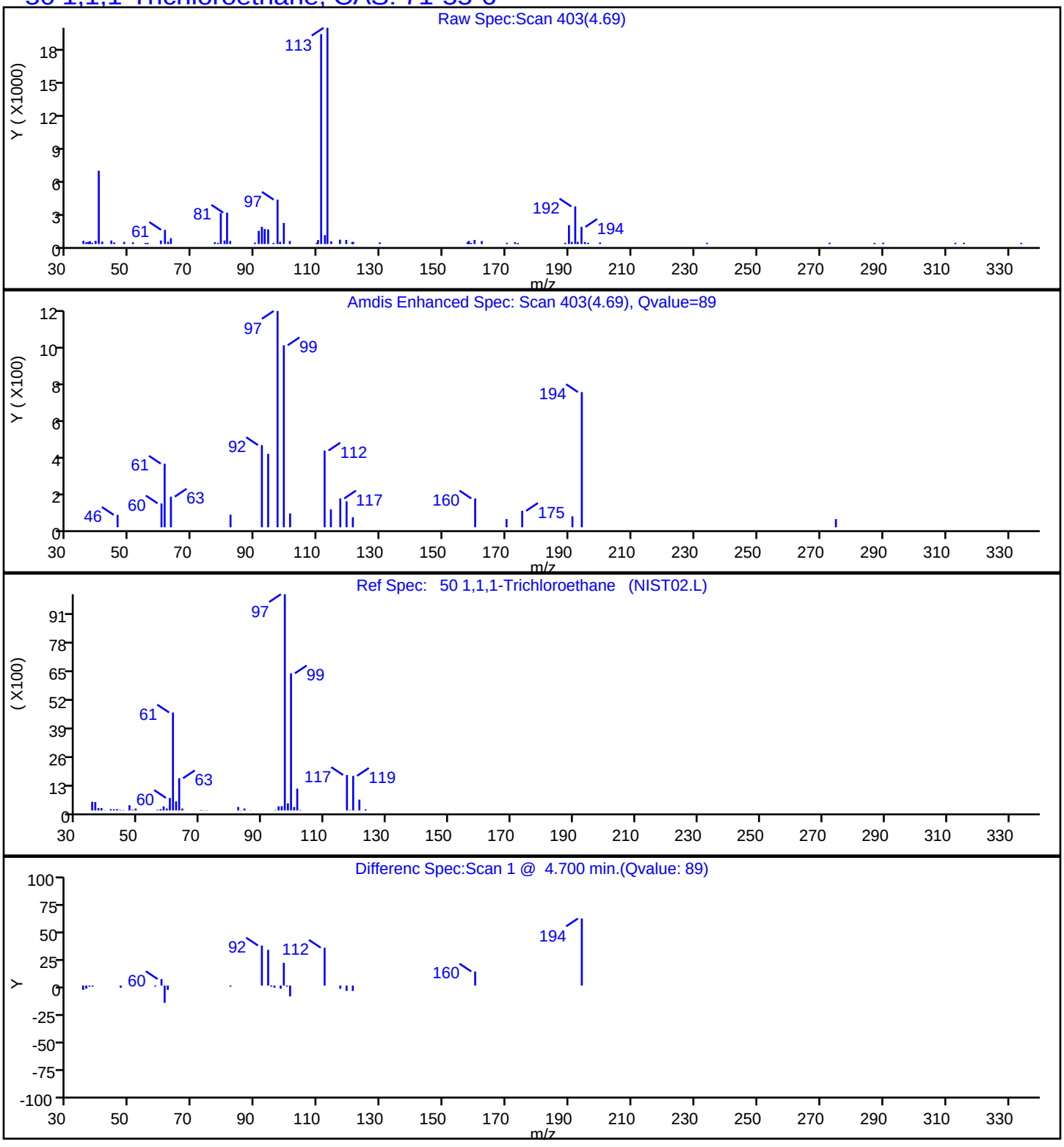
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

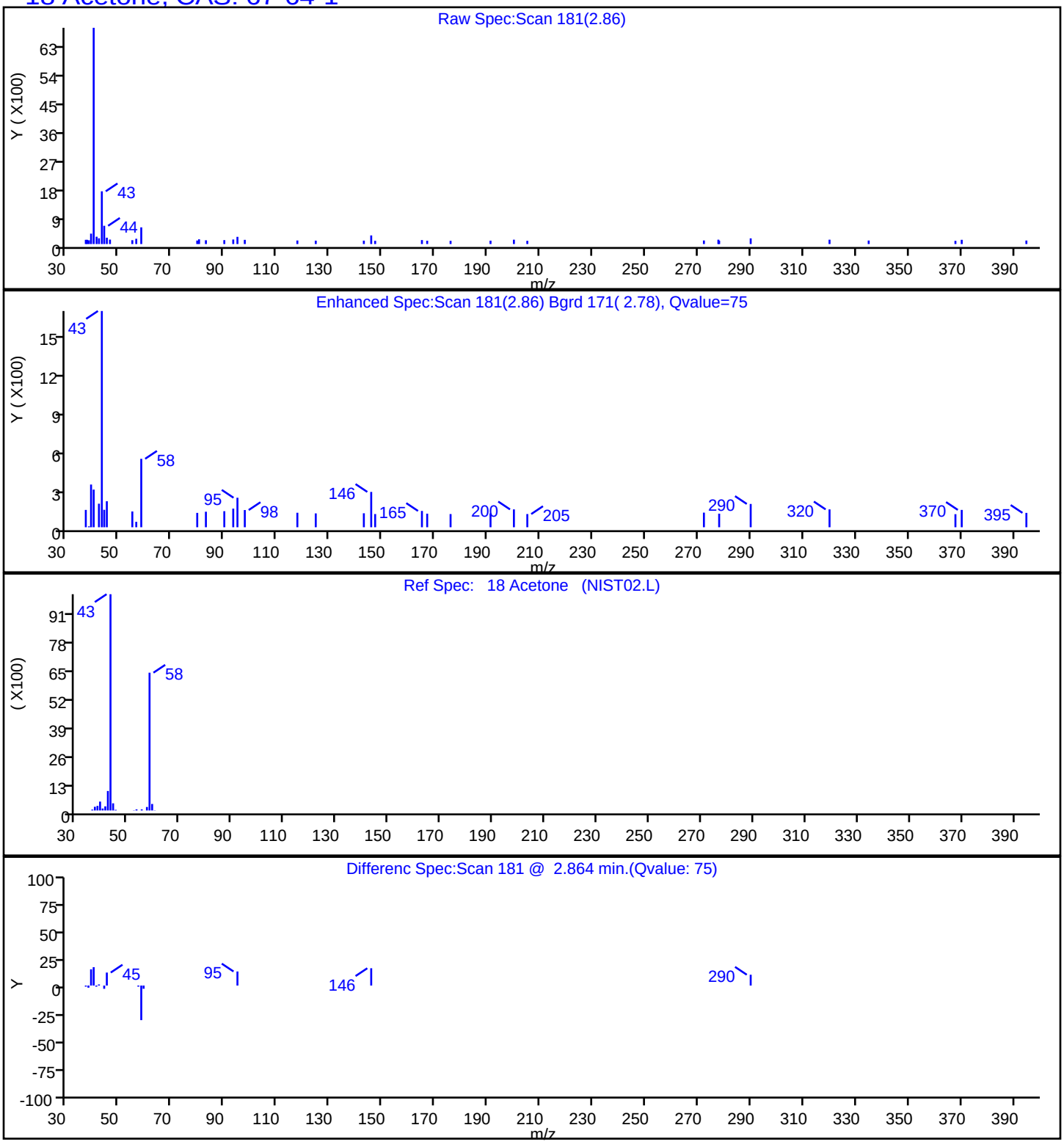
50 1,1,1-Trichloroethane, CAS: 71-55-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

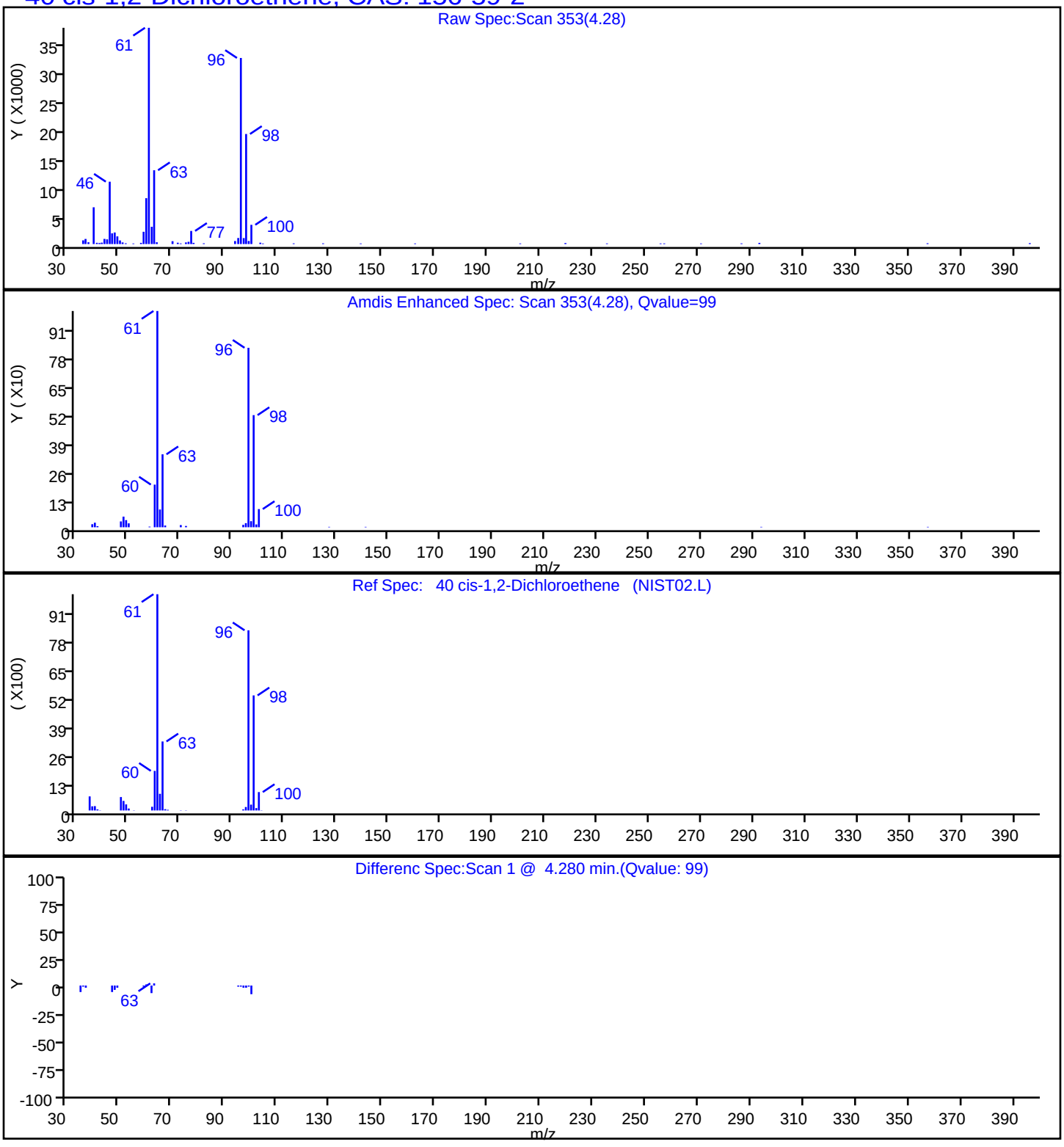
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

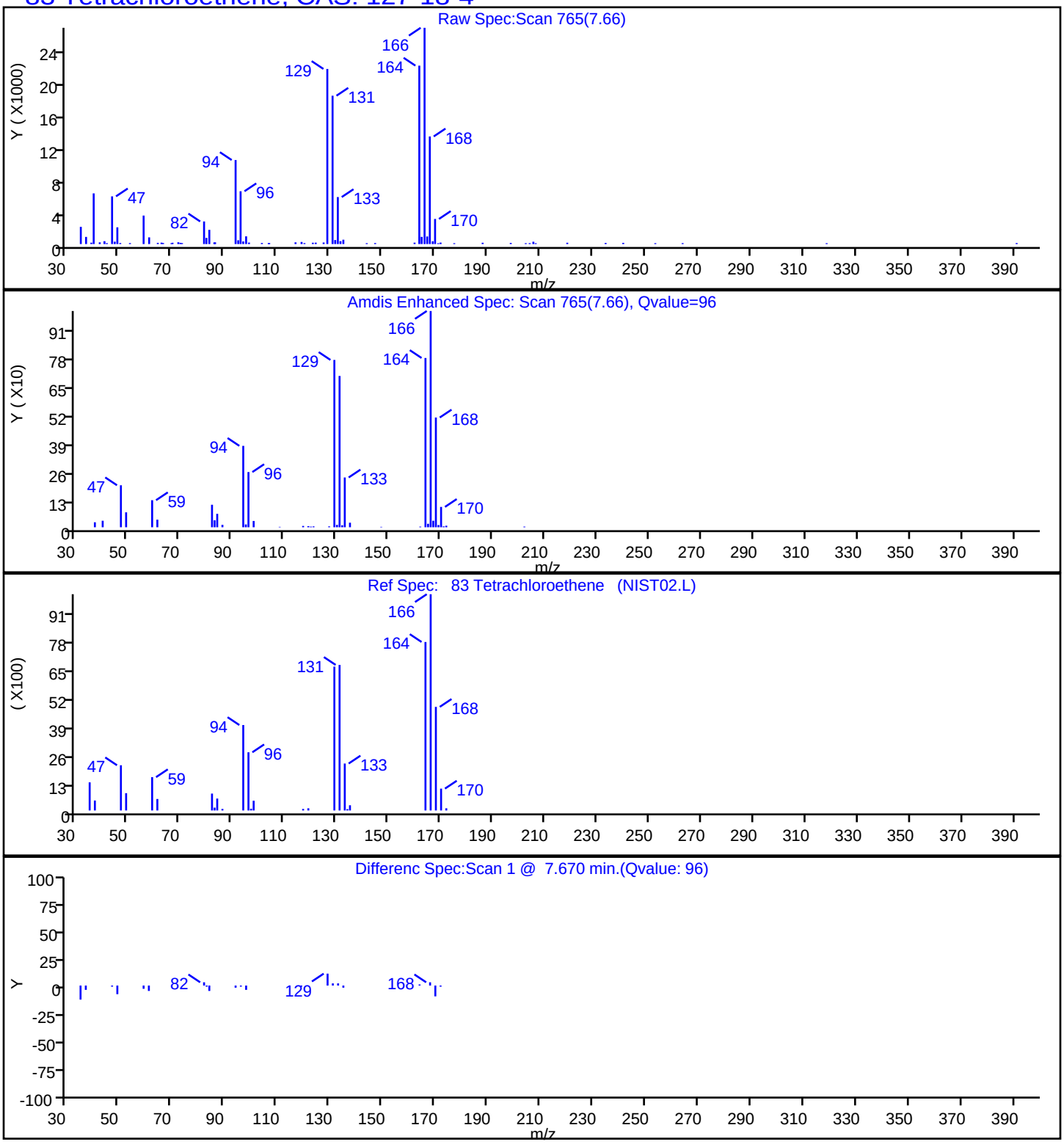
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

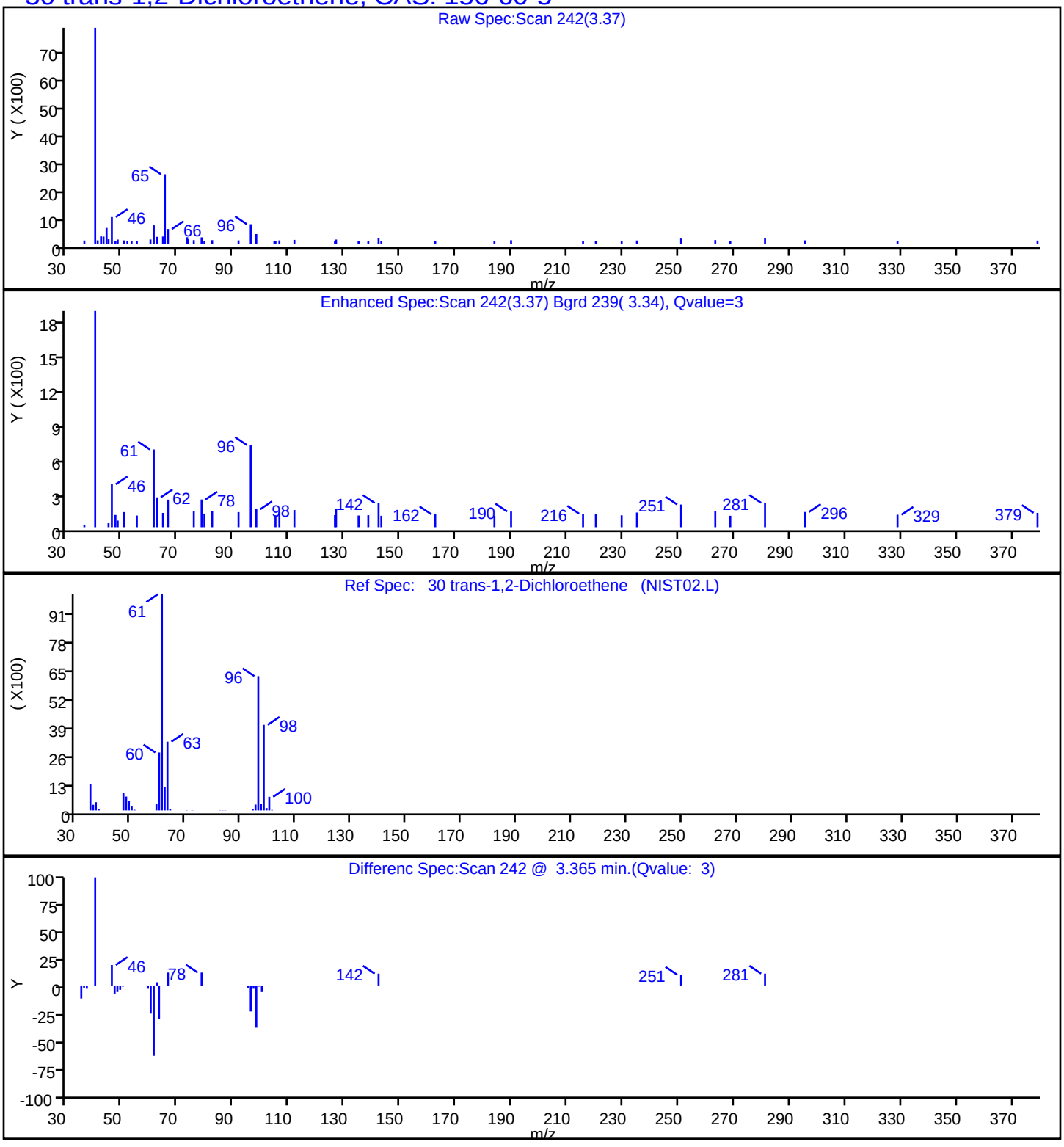
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

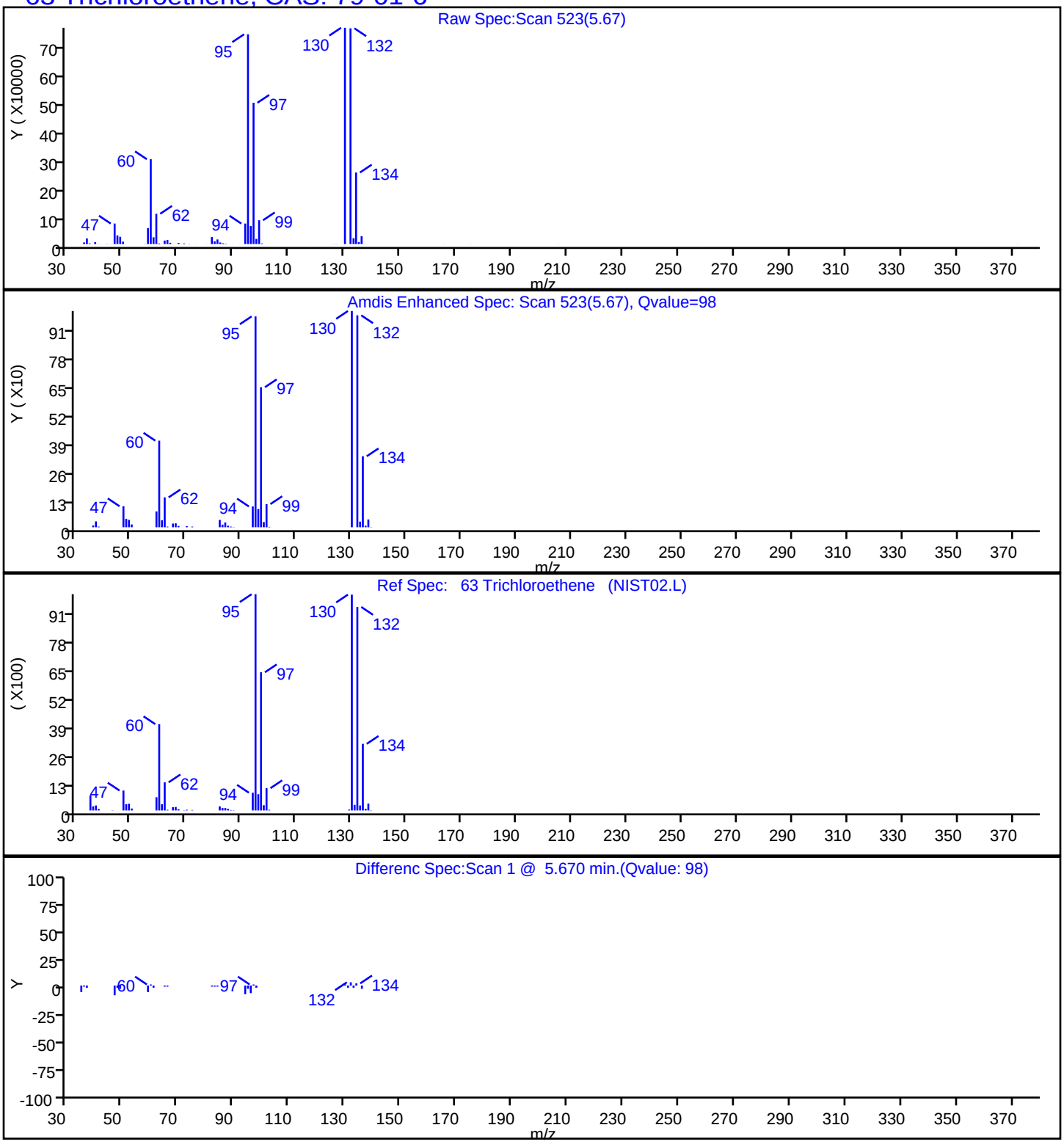
30 trans-1,2-Dichloroethene, CAS: 156-60-5



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

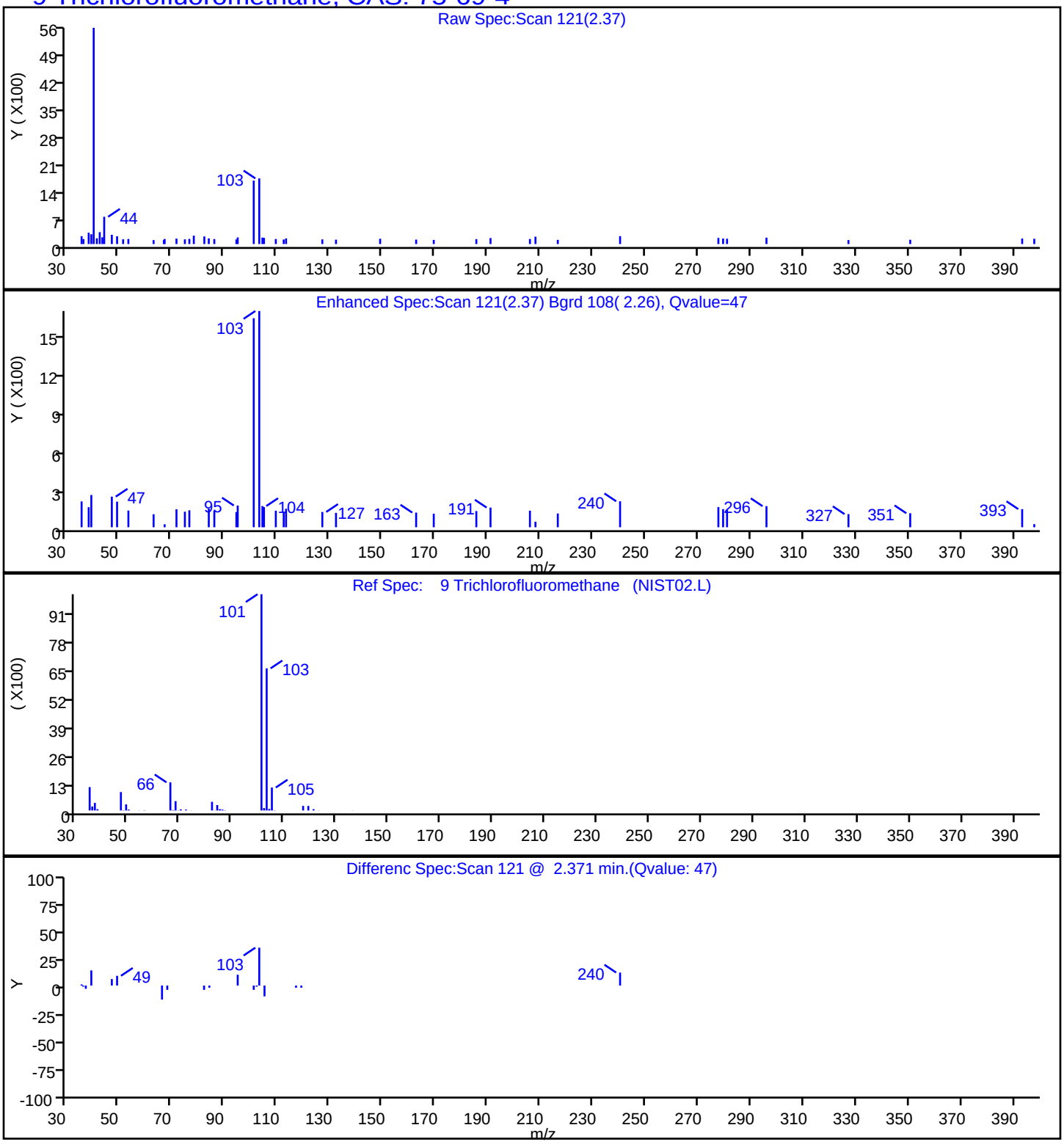
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

9 Trichlorofluoromethane, CAS: 75-69-4



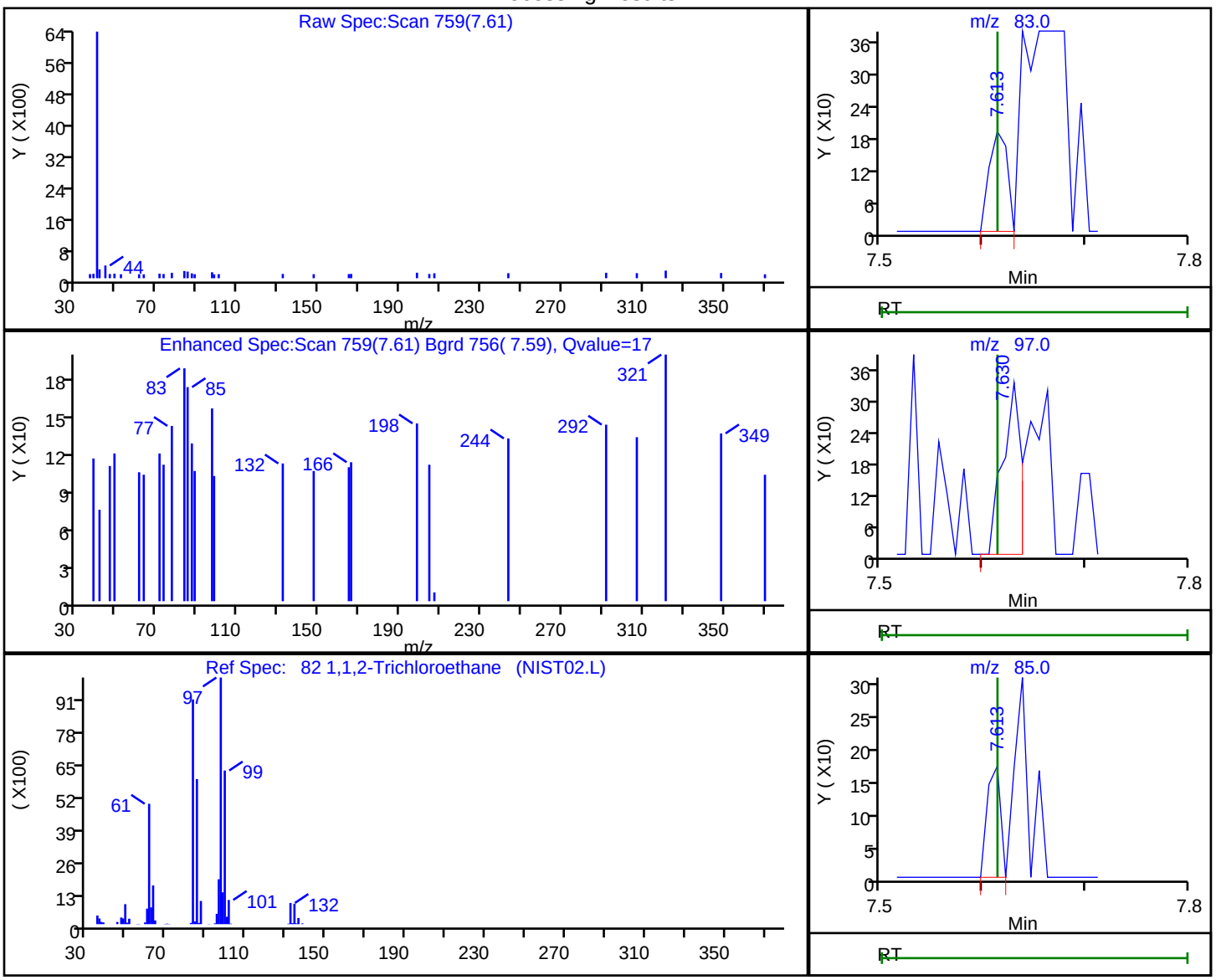
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D				
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6		
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

82 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.61	83.00	229	0.084156
7.63	97.00	418	
7.61	85.00	155	

Reviewer: moroneyc, 10-Jul-2018 06:32:40

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

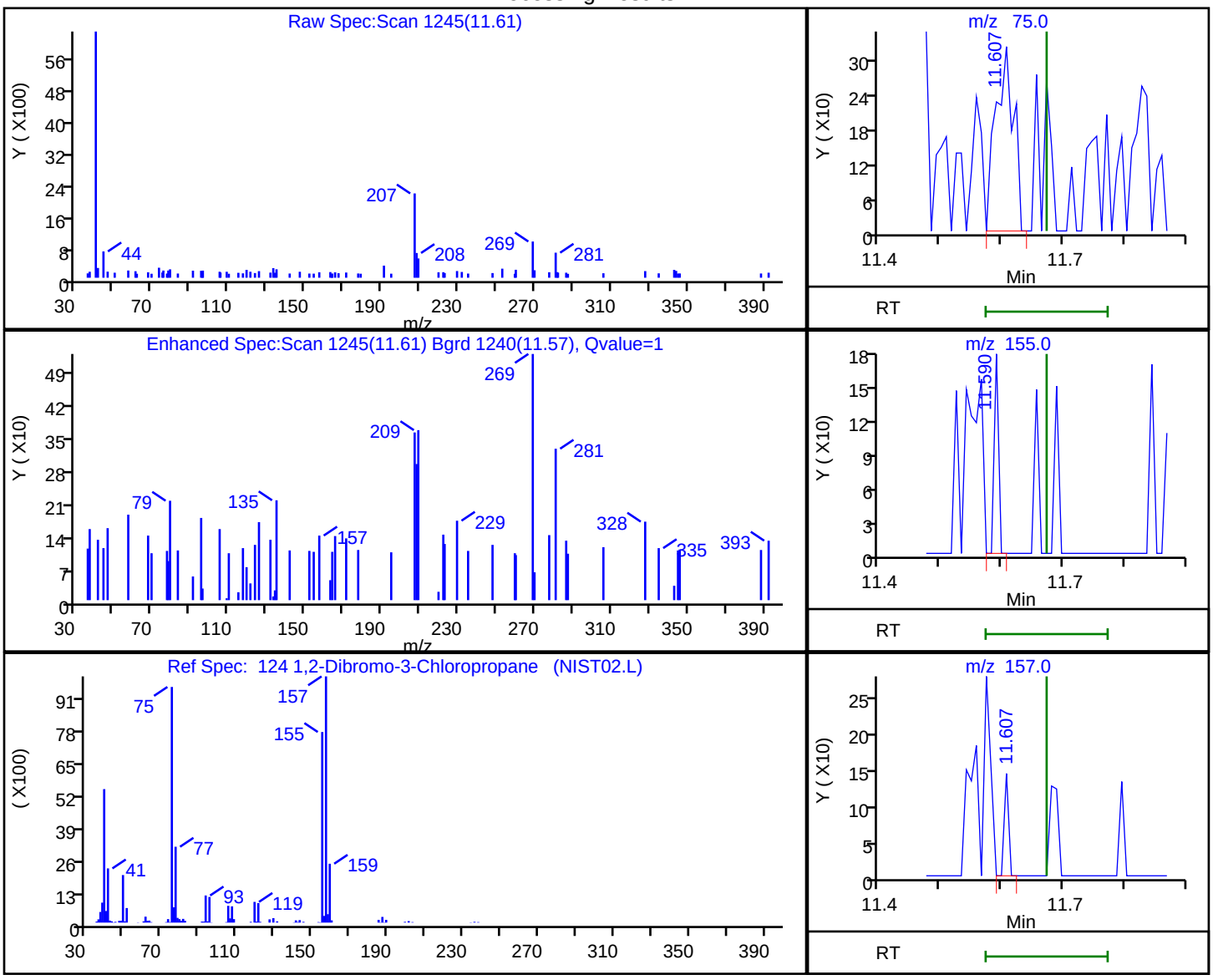
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

124 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Processing Results



RT	Mass	Response	Amount
11.61	75.00	647	0.828325
11.59	155.00	86	
11.61	157.00	69	

Reviewer: moroneyc, 10-Jul-2018 06:32:43

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

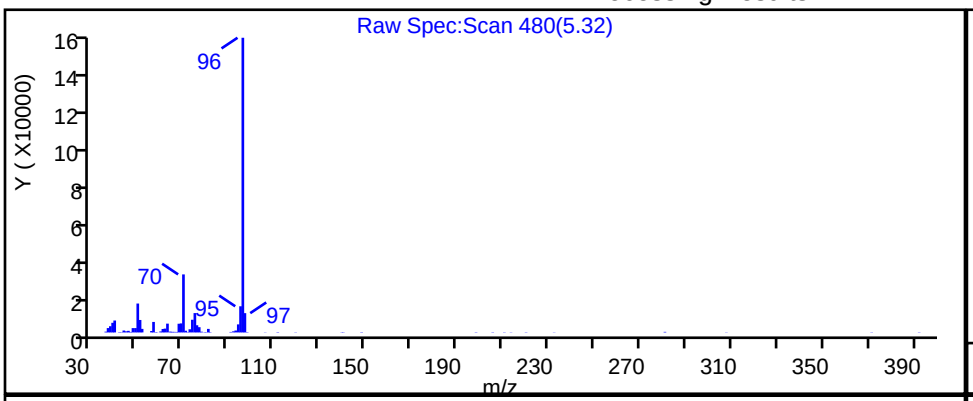
User Disabled Compound Report

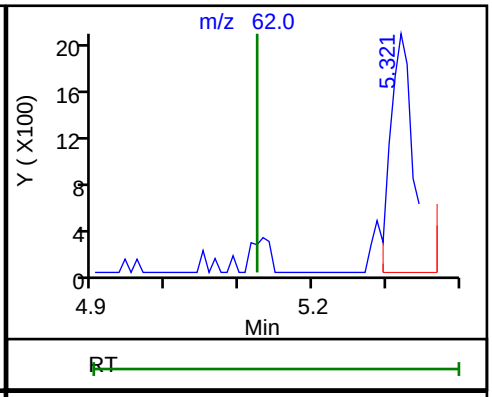
TestAmerica Edison

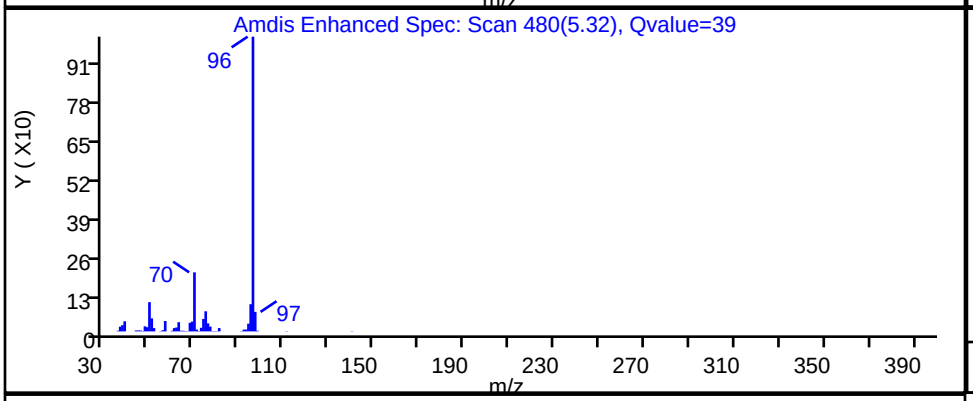
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

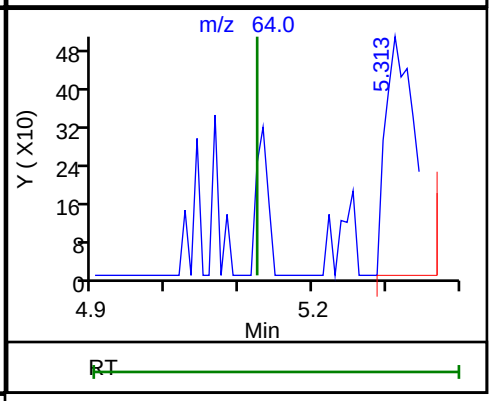
59 1,2-Dichloroethane, CAS: 107-06-2

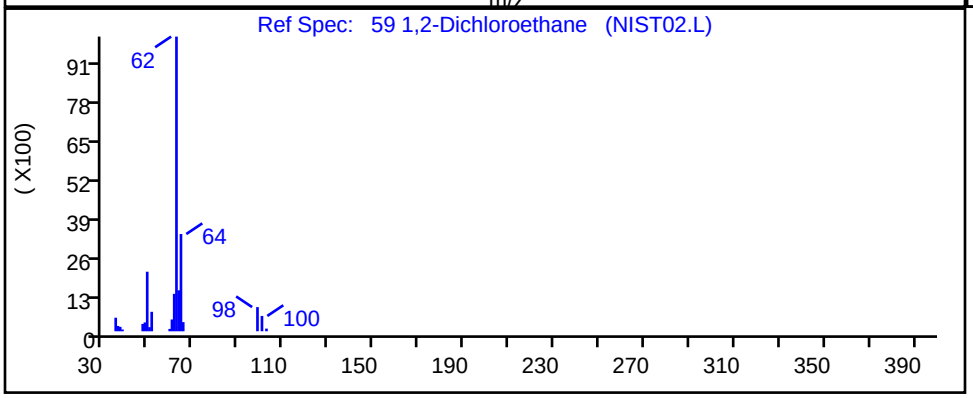
Processing Results











RT	Mass	Response	Amount
5.32	62.00	4302	0.843920
5.31	64.00	1443	

Reviewer: moroneyc, 10-Jul-2018 06:32:36

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

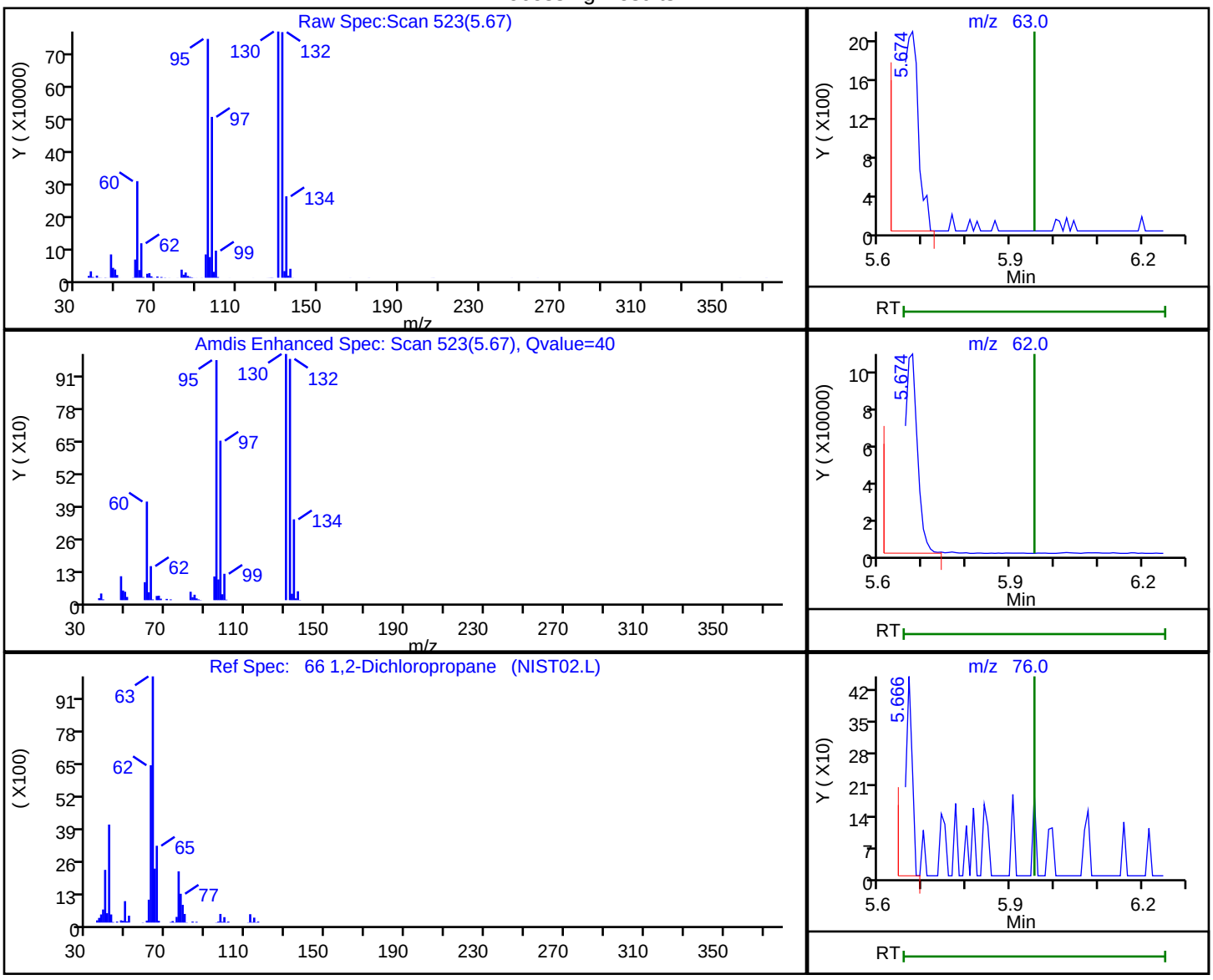
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67516.D		
Injection Date:	10-Jul-2018 03:09:30	Instrument ID:	CVOAMS6
Lims ID:	460-159314-B-4	Lab Sample ID:	460-159314-4
Client ID:	PDI-MW-161-1-I-06262018		
Operator ID:		ALS Bottle#:	24 Worklist Smp#: 25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

66 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.67	63.00	5422	1.232021
5.67	62.00	219929	
5.67	76.00	492	
5.95	112.00	0	

Reviewer: moroneyc, 10-Jul-2018 06:32:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.4096	0.2804 0.4198	0.3800	0.3596	0.3611	Ave		0.3684				13.5		20.0			
Dichlorodifluoromethane	+++++ 0.9777	0.8283 0.9557	0.9128	0.8433	0.8197	Ave		0.8896			0.1000	7.7		20.0			
Chloromethane	+++++ 1.0946	1.2253 1.0508	1.0793	1.0455	1.0241	Ave		1.0866			0.1000	6.7		20.0			
Vinyl chloride	+++++ 1.1118	1.1186 1.0738	1.1243	1.0610	1.0246	Ave		1.0857			0.1000	3.6		20.0			
Butadiene	1.1300 1.0188	0.9555 1.0017	0.9540	0.9273	0.9227	Ave		0.9872				7.3		20.0			
Bromomethane	+++++ 0.7167	0.9255 0.6884	0.7666	0.7234	0.6823	Ave		0.7505			0.1000	12.1		20.0			
Chloroethane	+++++ 0.6258	0.7473 0.6114	0.6492	0.6249	0.6129	Ave		0.6452			0.1000	8.0		20.0			
Dichlorofluoromethane	+++++ 1.2715	1.3349 1.2435	1.4903	1.4533	1.4233	Ave		1.3695				7.4		20.0			
Pentane	+++++ 5.8294	4.7800 6.1553	8.0669	6.7689	6.2964	Ave		6.3162				17.2		20.0			
Trichlorofluoromethane	+++++ 0.9581	1.0328 0.9605	1.1178	0.9969	0.9673	Ave		1.0055			0.1000	6.2		20.0			
Ethyl ether	+++++ 0.4484	0.4575 0.4436	0.4276	0.4648	0.4492	Ave		0.4485				2.8		20.0			
Ethanol	+++++ 0.0734	0.0984 0.0828	0.0633	0.0810	0.0782	Ave		0.0795				14.6		20.0			
2-Methyl-1,3-butadiene	+++++ 0.4724	0.5765 0.5286	0.5283	0.5301	0.4975	Ave		0.5222				6.7		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.4982	0.5781 0.5018	0.5727	0.5400	0.5116	Ave		0.5337				6.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 2.0079	1.4232 2.3497	2.0032	2.0775	1.7964	Ave		1.9430				16.0		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.5839	0.6433 0.6083	0.6927	0.6361	0.5719	Ave		0.6227			0.1000	7.1		20.0			
1,1-Dichloroethene	+++++ 0.5611	0.6315 0.5820	0.5820	0.5721	0.5403	Ave		0.5782			0.1000	5.3		20.0			
Acetone	+++++ 1.4873	1.1984 1.3439	1.4691	1.4384	1.6129	Ave		1.4250			0.0500	9.9		20.0			
Iodomethane	+++++ 1.0047	1.1316 0.9801	1.0719	1.0546	1.0182	Ave		1.0435				5.2		20.0			
Isopropyl alcohol	+++++ 1.0829	1.2824 1.2265	1.1822	1.1674	1.0766	Ave		1.1697				6.9		20.0			
Carbon disulfide	+++++ 2.1710	2.7367 2.1530	2.3962	2.2538	2.1717	Ave		2.3137			0.1000	9.8		20.0			
Allyl chloride	+++++ 1.0744	1.1771 1.0410	1.1252	1.1407	1.0800	Ave		1.1064				4.5		20.0			
Methyl acetate	+++++ 0.3317	0.3018 0.3359	0.3541	0.3493	0.3375	Ave		0.3351			0.1000	5.5		20.0			
Cyclopentene	+++++ 1.3821	1.4563 1.4642	1.5134	1.5115	1.4882	Ave		1.4693				3.3		20.0			
Acetonitrile	+++++ 3.4292	2.7672 3.5026	2.7498	4.3151	3.9149	Ave		3.4465				18.0		20.0			
Methylene Chloride	+++++ 0.6644	0.7691 0.6596	0.7613	0.7373	0.6789	Ave		0.7118			0.1000	7.0		20.0			
2-Methyl-2-propanol	+++++ 2.0964	1.9706 2.1826	2.0330	2.3111	2.0234	Ave		2.1028				6.0		20.0			
Methyl tert-butyl ether	+++++ 1.6461	1.8272 1.6192	1.7464	1.7855	1.6563	Ave		1.7134			0.1000	4.9		20.0			
trans-1,2-Dichloroethene	+++++ 0.6140	0.6787 0.5992	0.6422	0.6619	0.6401	Ave		0.6394			0.1000	4.6		20.0			
Acrylonitrile	0.2013 0.1958	0.1525 0.1866	0.1920	0.2072	0.2027	Ave		0.1912				9.6		20.0			
Hexane	+++++ 0.5119	0.5774 0.5259	0.5213	0.5040	0.4857	Ave		0.5210				6.0		20.0			
Isopropyl ether	+++++ 1.8871	1.9363 1.8725	1.9854	2.0933	1.9791	Ave		1.9590				4.1		20.0			
1,1-Dichloroethane	+++++ 1.0576	1.1663 1.0327	1.2735	1.1881	1.0977	Ave		1.1360			0.2000	8.0		20.0			
Vinyl acetate	+++++ 0.1137	0.0908 0.1156	0.1033	0.1199	0.1156	Ave		0.1098				9.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.5210	0.6296 0.5429	0.5460	0.5855	0.5576	Ave		0.5638				6.8		20.0			
Tert-butyl ethyl ether	+++++ 1.7986	1.8339 1.7883	1.7792	1.9536	1.8591	Ave		1.8355				3.6		20.0			
2,2-Dichloropropane	+++++ 0.2227	0.2819 0.2258	0.2383	0.2445	0.2249	Ave		0.2397				9.3		20.0			
cis-1,2-Dichloroethene	+++++ 0.6891	0.7157 0.6802	0.7561	0.7586	0.7161	Ave		0.7193			0.1000	4.6		20.0			
Ethyl acetate	+++++ 0.6179	0.8236 0.5744	0.6934	0.6275	0.6300	Ave		0.6611				13.3		20.0			
2-Butanone (MEK)	+++++ 0.6699	0.7017 0.6025	0.6650	0.6871	0.6488	Ave		0.6625			0.0500	5.2		20.0			
Methyl acrylate	+++++ 0.5537	0.5189 0.5682	0.4801	0.5793	0.5226	Ave		0.5371				6.9		20.0			
Propionitrile	+++++ 4.0126	2.6535 3.6997	3.5258	4.3234	4.1101	Ave		3.7209				16.0		20.0			
Chlorobromomethane	+++++ 0.3150	0.3275 0.3100	0.3574	0.3522	0.3292	Ave		0.3319				5.8		20.0			
Tetrahydrofuran	+++++ 0.7348	1.1823 0.6938	0.7781	0.8528	0.7221	Lin2	0.8910	0.7325							0.9940		0.9900
Methacrylonitrile	+++++ 0.2119	0.1985 0.2035	0.2013	0.2183	0.2131	Ave		0.2077				3.7		20.0			
Chloroform	+++++ 0.9832	0.9973 0.9606	1.0655	1.1186	1.0321	Ave		1.0262			0.2000	5.7		20.0			
Cyclohexane	+++++ 0.9577	0.9012 1.0013	0.9836	0.9580	0.9438	Ave		0.9576			0.1000	3.6		20.0			
1,1,1-Trichloroethane	+++++ 0.8551	1.0791 0.8547	0.9097	0.9053	0.8834	Ave		0.9145			0.1000	9.2		20.0			
Carbon tetrachloride	+++++ 0.7193	0.7564 0.7197	0.7826	0.7442	0.7338	Ave		0.7427			0.1000	3.3		20.0			
1,1-Dichloropropene	+++++ 0.7888	0.8023 0.7927	0.8481	0.8246	0.8006	Ave		0.8095				2.8		20.0			
Isobutyl alcohol	+++++ 1.8194	1.4958 1.8475	1.5174	1.7757	1.6967	Ave		1.6921				9.0		20.0			
Benzene	+++++ 3.3104	3.6749 3.0267	3.7998	3.6947	3.4293	Ave		3.4893			0.5000	8.3		20.0			
Isopropyl acetate	+++++ 1.4734	1.4099 1.5307	1.3661	1.4906	1.5226	Ave		1.4656				4.4		20.0			
Tert-amyl methyl ether	+++++ 1.9674	1.8095 1.9640	1.9490	2.0386	1.9844	Ave		1.9521				3.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dichloroethane	+++++ 0.6746	0.9299 0.6733	0.7345	0.7338	0.6905	Ave		0.7395			0.1000	13.2		20.0			
n-Heptane	+++++ 0.4774	0.4095 0.4770	0.4331	0.4450	0.4483	Ave		0.4484				5.8		20.0			
n-Butanol	+++++ 0.5571	0.0376 0.6177	0.2230	0.4286	0.4365	QuaF		0.5018	0.0000093						1.0000		0.9900
Trichloroethene	+++++ 0.5879	0.6922 0.5847	0.6151	0.6251	0.5924	Ave		0.6162			0.2000	6.6		20.0			
Ethyl acrylate	+++++ 1.4549	0.9726 1.4928	1.3013	1.4040	1.4028	Ave		1.3381				14.2		20.0			
Methylcyclohexane	+++++ 1.1400	0.9621 1.1612	1.0701	1.0983	1.0861	Ave		1.0863			0.1000	6.4		20.0			
1,2-Dichloropropane	+++++ 0.6277	0.6182 0.6312	0.6628	0.6612	0.6292	Ave		0.6384			0.1000	2.9		20.0			
Methyl methacrylate	+++++ 0.1377	0.0706 0.1403	0.1063	0.1272	0.1276	Lin2	-0.128	0.1319							0.9960		0.9900
1,4-Dioxane	+++++ 1.5125	1.9725 +++++	1.8476	2.2013	2.0100	Ave		1.9088				13.4		20.0			
Dibromomethane	+++++ 0.3445	0.4238 0.3447	0.3478	0.3748	0.3454	Ave		0.3635				8.7		20.0			
n-Propyl acetate	+++++ 0.6314	0.5563 0.6721	0.5213	0.5840	0.5910	Ave		0.5927				9.0		20.0			
Bromodichloromethane	+++++ 0.7719	0.8223 0.7650	0.7444	0.7892	0.7655	Ave		0.7764			0.2000	3.4		20.0			
2-Nitropropane	+++++ 0.1014	0.1413 0.1089	0.1154	0.0997	0.0977	Ave		0.1107				14.8		20.0			
2-Chloroethyl vinyl ether	+++++ 0.3148	0.2196 0.3345	0.2286	0.2778	0.2990	Ave		0.2790				16.7		20.0			
Epichlorohydrin	0.4005 0.5447	0.4639 0.4952	0.4988	0.5495	0.5520	Ave		0.5007				11.1		20.0			
cis-1,3-Dichloropropene	+++++ 1.3044	1.2393 1.2677	1.2216	1.3105	1.2585	Ave		1.2670			0.2000	2.8		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 5.4727	4.0897 4.6357	5.1063	5.6364	5.7376	Ave		5.1131			0.0500	12.6		20.0			
Toluene	+++++ 3.3961	3.6696 3.0580	3.7301	3.7647	3.5451	Ave		3.5273			0.4000	7.6		20.0			
trans-1,3-Dichloropropene	+++++ 1.0688	1.0837 1.0692	1.0537	1.0444	1.0192	Ave		1.0565			0.1000	2.2		20.0			
Ethyl methacrylate	+++++ 0.9796	0.6332 0.9678	0.7782	0.9031	0.9282	Ave		0.8650				15.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloroethane	+++++ 0.5745	0.5531 0.5695	0.6305	0.6279	0.5687	Ave		0.5874			0.1000	5.7		20.0			
Tetrachloroethene	+++++ 0.8255	0.9118 0.8010	0.9151	0.8829	0.8347	Ave		0.8618			0.2000	5.6		20.0			
1,3-Dichloropropane	+++++ 1.1271	1.0600 1.1073	1.0752	1.1838	1.1141	Ave		1.1112				3.9		20.0			
2-Hexanone	+++++ 3.2781	1.1322 2.9377	2.5032	3.1028	3.1594	Lin2	-10.09	3.1150			0.0500				0.9970		0.9900
n-Butyl acetate	+++++ 0.9999	0.3685 1.0361	0.9370	0.9905	0.9799	Lin2	-0.646	1.0229							0.9990		0.9900
Dibromochloromethane	+++++ 0.7500	0.7957 0.7302	0.7604	0.7919	0.7391	Ave		0.7612			0.1000	3.6		20.0			
1,2-Dibromoethane	+++++ 0.6487	0.5889 0.6297	0.6773	0.6642	0.6354	Ave		0.6407			0.1000	4.8		20.0			
Chlorobenzene	+++++ 2.1535	2.3059 2.0575	2.2586	2.3358	2.2118	Ave		2.2205			0.5000	4.6		20.0			
Ethylbenzene	+++++ 1.2461	1.3386 1.2210	1.2522	1.3569	1.2809	Ave		1.2826			0.1000	4.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.8110	0.8669 0.7777	0.8831	0.8775	0.8351	Ave		0.8419				5.0		20.0			
m-Xylene & p-Xylene	+++++ 1.5415	1.4107 1.4918	1.5428	1.6449	1.5364	Ave		1.5280			0.1000	5.0		20.0			
n-Butyl acrylate	+++++ 0.6188	0.2809 0.6462	0.4751	0.5178	0.5948	Lin2	-0.323	0.5909							0.9930		0.9900
o-Xylene	+++++ 1.5915	1.4835 1.5171	1.5683	1.6948	1.6265	Ave		1.5803			0.3000	4.8		20.0			
Styrene	+++++ 2.5276	2.3069 2.3304	2.3223	2.6994	2.5486	Ave		2.4559			0.3000	6.5		20.0			
Amyl acetate (mixed isomers)	+++++ 2.3224	0.8397 2.4796	1.6152	2.1243	2.1920	Lin2	-1.470	2.2418							0.9920		0.9900
Bromoform	+++++ 0.4899	0.5027 0.4653	0.4897	0.5078	0.4728	Ave		0.4880			0.1000	3.4		20.0			
Isopropylbenzene	+++++ 3.8165	3.5634 3.1366	3.9695	4.2458	4.0536	Ave		3.7976			0.1000	10.5		20.0			
Bromobenzene	+++++ 1.6482	1.8777 1.6436	1.6332	1.8636	1.6992	Ave		1.7276				6.6		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.5709	1.5903 1.5945	1.6768	1.7730	1.5659	Ave		1.6286			0.3000	5.0		20.0			
N-Propylbenzene	+++++ 7.6180	8.1580 6.1500	8.2138	9.1630	8.2260	Ave		7.9215				12.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,3-Trichloropropane	+++++ 0.4200	0.5783 0.4327	0.4124	0.4700	0.4437	Ave		0.4595				13.4		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3721	0.1503 0.4001	0.3090	0.3834	0.3483	Lin2	-0.229	0.3760							0.9970		0.9900
2-Chlorotoluene	+++++ 5.4332	5.7173 4.8935	5.6074	6.2164	5.6221	Ave		5.5817				7.7		20.0			
4-Ethyltoluene	+++++ 6.4488	5.9268 5.6710	6.5017	7.7042	6.9316	Ave		6.5307				11.1		20.0			
1,3,5-Trimethylbenzene	+++++ 5.7514	5.6407 4.9391	5.7673	6.5723	5.8637	Ave		5.7558				9.1		20.0			
4-Chlorotoluene	+++++ 4.7994	4.9389 4.3616	4.9939	5.5613	4.9676	Ave		4.9371				7.8		20.0			
Butyl Methacrylate	+++++ 2.2408	1.2332 2.2743	1.5331	1.9717	2.1110	Qua2	-0.781	1.9628	0.0007536						0.9940		0.9900
tert-Butylbenzene	+++++ 4.8882	4.3097 4.3296	4.4633	5.0540	4.8145	Ave		4.6432				6.8		20.0			
1,2,4-Trimethylbenzene	+++++ 5.8657	5.4970 4.9186	5.9293	6.7587	6.1651	Ave		5.8557				10.6		20.0			
sec-Butylbenzene	+++++ 7.2632	7.0570 5.6427	7.4105	8.0792	7.4519	Ave		7.1508				11.4		20.0			
4-Isopropyltoluene	+++++ 6.2551	5.6428 5.1011	5.9227	6.9414	6.3807	Ave		6.0406				10.5		20.0			
1,3-Dichlorobenzene	+++++ 3.2744	3.3013 3.1236	3.4851	3.7755	3.3672	Ave		3.3878			0.6000	6.6		20.0			
1,4-Dichlorobenzene	+++++ 3.2988	3.4735 3.1073	3.6511	3.9374	3.4887	Ave		3.4928			0.5000	8.2		20.0			
1,2,3-Trimethylbenzene	+++++ 6.1220	6.2852 5.0972	6.2669	7.0617	6.5002	Ave		6.2222				10.3		20.0			
Benzyl chloride	+++++ 3.3289	2.4567 3.1190	2.9110	3.5139	3.3271	Ave		3.1094				12.2		20.0			
Indan	+++++ 5.9743	6.2702 4.8508	6.5989	7.2731	6.5661	Ave		6.2556				13.0		20.0			
p-Diethylbenzene	+++++ 3.5449	3.4328 3.3779	3.7857	4.2794	3.8947	Ave		3.7192				9.1		20.0			
n-Butylbenzene	+++++ 3.4414	3.2999 3.2486	3.3995	3.8000	3.4829	Ave		3.4454				5.6		20.0			
1,2-Dichlorobenzene	+++++ 3.1989	3.4638 2.9521	3.4896	3.7870	3.4658	Ave		3.3929			0.4000	8.4		20.0			
1,2,4,5-Tetramethylbenzene	+++++ 5.8178	5.6373 4.6891	5.5967	6.8353	6.2514	Ave		5.8046				12.4		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2-Dibromo-3-Chloropropane	+++++ 0.2908	0.3163 0.2930	0.3059	0.3146	0.2796	Ave		0.3001			0.0500	4.9		20.0			
1,3,5-Trichlorobenzene	+++++ 2.4805	2.7233 2.3701	2.7171	2.8699	2.7097	Ave		2.6451				6.9		20.0			
1,2,4-Trichlorobenzene	+++++ 2.3908	2.0941 2.2343	2.3196	2.5877	2.4865	Ave		2.3522			0.2000	7.5		20.0			
Hexachlorobutadiene	+++++ 1.0787	1.2625 1.0285	1.1443	1.1111	1.0674	Ave		1.1154				7.4		20.0			
Naphthalene	+++++ 5.3551	4.1545 4.5511	4.6050	5.5966	5.6051	Ave		4.9779				12.4		20.0			
1,2,3-Trichlorobenzene	+++++ 2.1439	2.4818 1.9963	2.1657	2.4524	2.2920	Ave		2.2553				8.4		20.0			
Dibromofluoromethane (Surr)	0.2645 0.2342	0.2554 0.2323	0.2538	0.2530	0.2510	Ave		0.2492				4.7		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2621 0.2746	0.2672 0.2970	0.2520	0.2554	0.2550	Ave		0.2662				5.9		20.0			
Toluene-d8 (Surr)	1.3741 1.3672	1.3758 1.3366	1.4239	1.3803	1.3891	Ave		1.3782				1.9		20.0			
4-Bromofluorobenzene	0.3965 0.3978	0.4179 0.3853	0.4145	0.4087	0.4046	Ave		0.4036				2.8		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-534406/3	F67408.D
Level 2	STD1 460-534406/4	F67409.D
Level 3	STD5 460-534406/5	F67410.D
Level 4	STD20 460-534406/6	F67411.D
Level 5	STD50 460-534406/7	F67412.D
Level 6	STD200 460-534406/8	F67413.D
Level 7	STD500 460-534406/9	F67414.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 709694	2101 1936409	14256	55175	141971	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 1693948	6206 4408691	34244	129388	322297	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1896409	9180 4846961	40491	160414	402640	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 1926255	8381 4953087	42176	162796	402833	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	1864 1765160	7159 4620836	35790	142283	362789	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 1241756	6934 3175435	28760	110997	268251	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 1084123	5599 2820281	24353	95876	240980	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 2202861	10001 5736092	55907	222984	559613	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 352397	1110 1096295	10144	34097	86045	+++++ 400	2.00 1000	10.0	40.0	100
Trichlorofluoromethane	FB	Ave	+++++ 1659910	7738 4430449	41932	152955	380312	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl ether	FB	Ave	+++++ 776872	3428 2046129	16040	71323	176623	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd 9	Ave	+++++ 88716	457 294889	1593	8161	21379	+++++ 8000	40.0 20000	200	800	2000
2-Methyl-1,3-butadiene	FB	Ave	+++++ 818433	4319 2438118	19820	81333	195604	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 863219	4331 2314842	21483	82854	201129	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd 9	Ave	+++++ 60692	661 167400	5038	10465	24549	+++++ 200	4.00 400	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 1011610	4820 2805995	25985	97594	224849	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 972069	4731 2684576	21834	87779	212440	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 1098210	3274 2964336	20985	87955	253164	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 1740678	8478 4521161	40210	161807	400327	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 327318	1489 1092262	7433	29403	73566	+++++ 2000	10.0 5000	50.0	200	500
Carbon disulfide	FB	Ave	+++++ 3761206	20504 9931387	89893	345818	853831	+++++ 200	1.00 500	5.00	20.0	50.0
Allyl chloride	FB	Ave	+++++ 1861456	8819 4802050	42210	175027	424625	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 1149470	4522 3098846	26571	107177	265412	+++++ 400	2.00 1000	10.0	40.0	100
Cyclopentene	FB	Ave	+++++ 2394522	10911 6754156	56774	231916	585122	+++++ 200	1.00 500	5.00	20.0	50.0
Acetonitrile	TBAd9	Ave	+++++ 1036510	3213 3119121	17289	108682	267502	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 1151163	5762 3042833	28558	113133	266928	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 633643	2288 1943662	12782	58208	138256	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 2851896	13690 7468949	65514	273962	651186	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 1063814	5085 2764093	24093	101552	251677	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	2656 3392609	11424 8608034	72019	317916	797034	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	+++++ 886813	4326 2425866	19556	77335	190970	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 3269485	14507 8637675	74480	321190	778104	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1832242	8738 4763691	47774	182293	431590	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 393956	1360 1066727	7751	36794	90865	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 902621	4717 2504213	20482	89837	219242	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 3116079	13740 8249314	66745	299751	730944	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 385912	2112 1041602	8939	37516	88442	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 1193877	5362 3137762	28363	116397	281551	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 182512	900 506767	3962	15347	39552	+++++ 400	2.00 1000	10.0	40.0	100
2-Butanone (MEK)	BUT	Ave	+++++ 494630	1917 1328915	9499	42012	101840	+++++ 1000	5.00 2500	25.0	100	250
Methyl acrylate	CBNZ d5	Ave	+++++ 703275	2625 1967582	12350	63052	148390	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd 9	Ave	+++++ 1212845	3081 3294672	22168	108891	280840	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 545825	2454 1429859	13409	54045	129441	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Lin2	+++++ 217035	1292 612177	4446	20859	45338	+++++ 400	2.00 1000	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 3671286	14869 9385838	75501	334922	837786	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 1703395	7472 4430844	39973	171632	405786	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1659263	6752 4618908	36899	146994	371058	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 1481430	8085 3942526	34126	138900	347317	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 1246124	5667 3319730	29360	114190	288500	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 1366551	6011 3656797	31815	126530	314753	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd 9	Ave	+++++ 1374822	4342 4113074	23852	111808	289826	+++++ 5000	25.0 12500	125	500	1250
Benzene	CBNZ d5	Ave	+++++ 4204764	18589 10481196	97753	402110	973646	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 2552684	10563 7060860	51248	228711	598652	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 3408504	13557 9059390	73115	312799	780186	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 1168815	6967 3106032	27555	112597	271491	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 827096	3068 2200144	16247	68281	176244	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butanol	TBAd 9	QuaF	+++++ 420980	109 1375300	3506	26985	74557	+++++ 5000	25.0 12500	125	500	1250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Trichloroethene	FB	Ave	+++++ 1018520	5186 2697116	23075	95905	232897	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 2520560	7287 6886192	48819	215422	551536	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1975138	7208 5356346	40143	168517	427028	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 1087509	4632 2911396	24865	101451	247397	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Lin2	+++++ 477153	1058 1294397	7979	39048	100300	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 112735	953 +++++	2029	10773	26419	+++++ 4000	50.0 +++++	100	400	1000
Dibromomethane	FB	Ave	+++++ 596905	3175 1590260	13049	57505	135812	+++++ 200	1.00 500	5.00	20.0	50.0
n-Propyl acetate	FB	Ave	+++++ 1093852	4168 3100296	19557	89611	232351	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 1337273	6161 3528767	27927	121094	300964	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 351273	2118 1004773	8656	30596	76847	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ 545482	1645 1542778	8574	42627	117559	+++++ 200	1.00 500	5.00	20.0	50.0
Epichlorohydrin	BUT	Ave	998 1608905	5069 4369507	28499	134393	346568	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1656751	6269 4389929	31426	142629	357305	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 4041093	11173 10225528	72940	344643	900558	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZ d5	Ave	+++++ 4313597	18562 10589556	95962	409728	1006532	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	+++++ 1357534	5482 3702694	27107	113666	289370	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	CBNZ d5	Ave	+++++ 1244261	3203 3351463	20020	98286	263543	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZ d5	Ave	+++++ 729655	2798 1972178	16220	68341	161457	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZ d5	Ave	+++++ 1048499	4612 2773903	23541	96096	236993	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZ d5	Ave	+++++ 1431570	5362 3834334	27661	128841	316304	+++++ 200	1.00 500	5.00	20.0	50.0
2-Hexanone	BUT	Lin2	+++++ 2420551	3093 6479984	35757	189724	495888	+++++ 1000	5.00 2500	25.0	100	250

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butyl acetate	CBNZ d5	Lin2	+++++ 1269986	1864 3587927	24106	107797	278220	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 952604	4025 2528593	19562	86190	209847	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 823898	2979 2180576	17425	72287	180408	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 2735326	11664 7124946	58106	254215	627990	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 1582697	6771 4228207	32213	147681	363682	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 1030138	4385 2693250	22718	95501	237090	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1957917	7136 5166108	39690	179024	436228	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Lin2	+++++ 786020	1421 2237636	12223	56357	168864	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 2021512	7504 5253468	40346	184452	461789	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 3210461	11669 8069972	59744	293795	723592	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Lin2	+++++ 1680483	2413 4681947	25124	129234	361611	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 622246	2543 1611171	12599	55269	134241	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 4847598	18025 10861682	102121	462092	1150898	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 1192585	5396 3103431	25405	113372	280301	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 1136664	4570 3010711	26083	107861	258315	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 5512304	23444 11612551	127766	557431	1357000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 303924	1662 816999	6415	28590	73193	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Lin2	+++++ 269249	432 755508	4806	23323	57460	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 3931428	16430 9240017	87223	378178	927450	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 4666273	17032 10708126	101134	468686	1143475	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 4161635	16210 9326055	89710	399827	967312	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
4-Chlorotoluene	DCBd 4	Ave	+++++ 3472777	14193 8235664	77680	338320	819475	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Qua2	+++++ 1621447	3544 4294317	23847	119948	348236	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 3537058	12385 8175185	69427	307464	794229	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 4244360	15797 9287375	92231	411165	1017023	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 5255599	20280 10654597	115270	491501	1229308	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 4526133	16216 9632021	92127	422281	1052591	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 2369298	9487 5898093	54210	229685	555469	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 2386982	9982 5867301	56793	239534	575508	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 4429798	18062 9624666	97482	429601	1072303	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 2408788	7060 5889342	45280	213768	548852	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 4322939	18019 9159299	102646	442460	1083183	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 2565032	9865 6378237	58887	260337	642482	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 2490143	9483 6134003	52880	231171	574560	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 2314674	9954 5574171	54281	230380	571740	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 4209686	16200 8853963	87056	415827	1031262	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 210427	909 553314	4759	19141	46130	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1794877	7826 4475172	42265	174592	447000	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 1729926	6018 4218831	36082	157425	410186	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 780509	3628 1941946	17800	67593	176091	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 3874891	11939 8593464	71630	340468	924647	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 1551295	7132 3769448	33688	149191	378094	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 534406

SDG No.:

Instrument ID: CVOAMS6 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/08/2018 08:14 Calibration End Date: 07/08/2018 10:34 Calibration ID: 70046

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Dibromofluoromethane (Surr)	FB	Ave	87274 101418	95672 107167	95222	97066	98684	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	86458 118946	100077 137011	94533	97955	100245	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	309037 434144	347975 462865	366322	375578	394381	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	89171 126322	105689 133441	106636	111206	114885	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 08-Jul-2018 08:14:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0075068-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:59:57 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 08:34:49

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.853	1.837	0.016	71	1864	0.2500	0.2862	
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	105363	1000.0	1000.0	
31 Acrylonitrile	53	3.464	3.448	0.016	67	2656	2.00	2.11	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	124582	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	87274	50.0	53.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	86458	50.0	49.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	329916	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	9358	1000.0	1000.0	
75 Epichlorohydrin	57	6.718	6.685	0.033	1	998	5.00	4.00	a
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	98	309037	50.0	49.9	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	224904	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	89171	50.0	49.1	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	120459	50.0	50.0	

QC Flag Legend

Review Flags
a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	2.50	Units: uL	
ACROLEIN W_00078	Amount Added:	0.00	Units: uL	
GAS Hi_00262	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00051	Amount Added:	20.00	Units: uL	
14DIOXINTER_00086	Amount Added:	0.00	Units: uL	
Ethanol mix_00017	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	0.00	Units: uL	
MIX I Hi_00095	Amount Added:	0.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

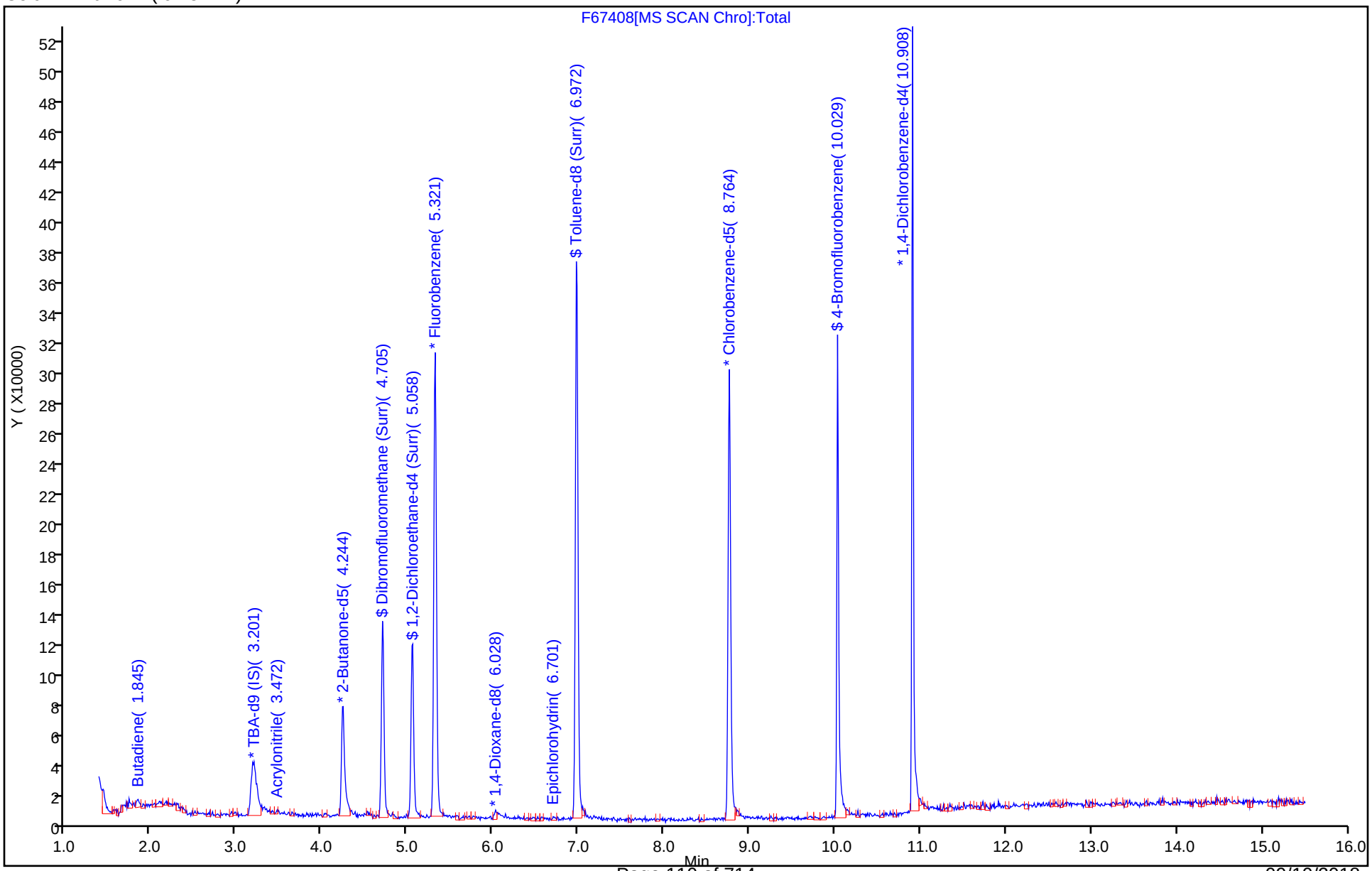
Report Date: 08-Jul-2018 18:59:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D

Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

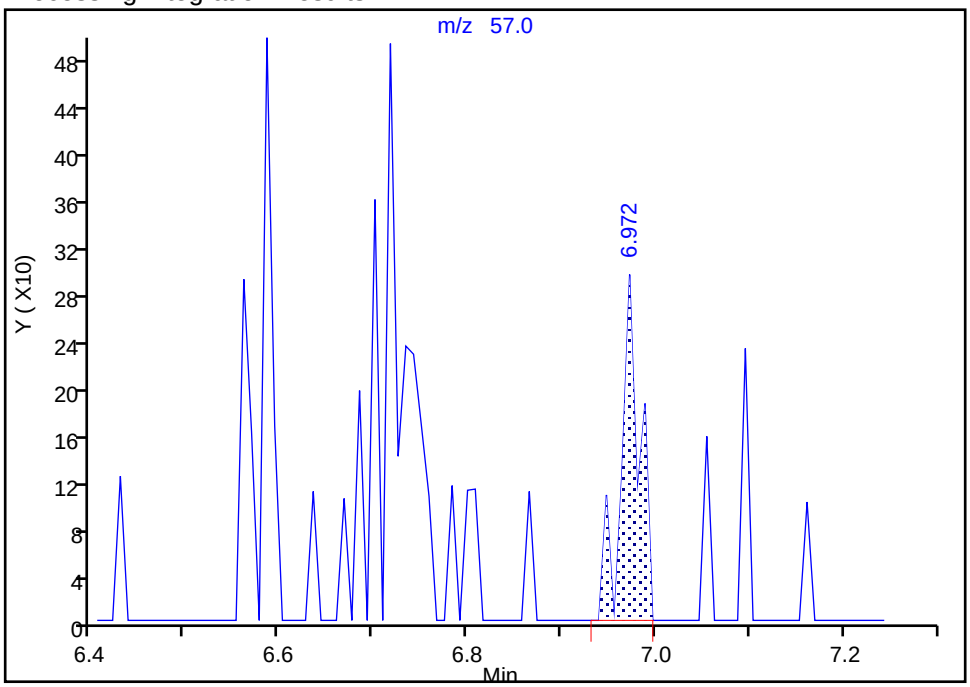
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

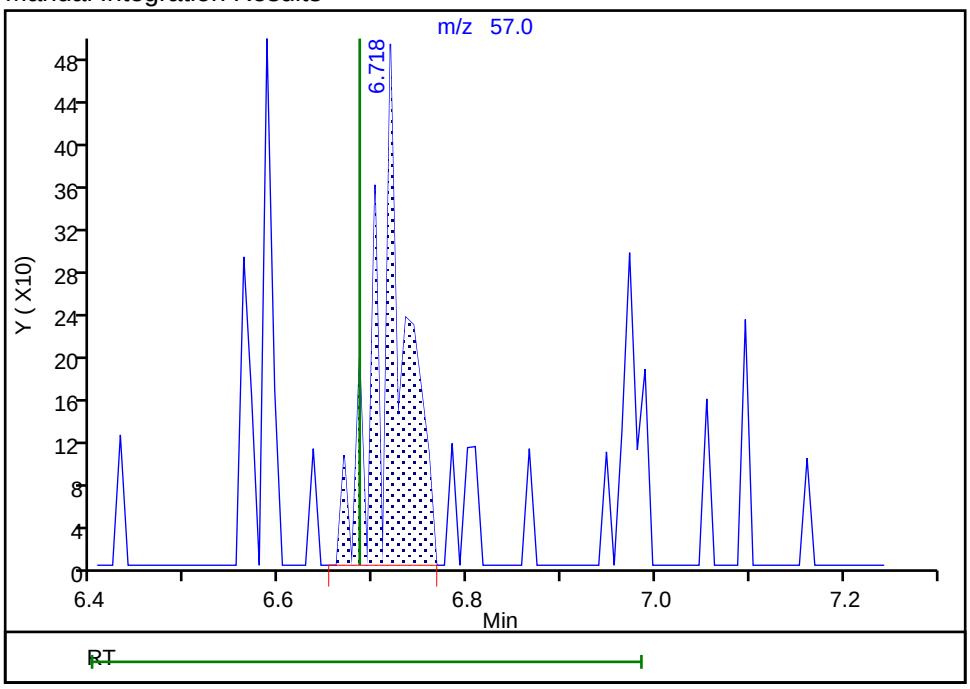
Processing Integration Results

RT: 6.97
Area: 405
Amount: 1.414336
Amount Units: ug/l



Manual Integration Results

RT: 6.72
Area: 998
Amount: 4.000129
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:27:45
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

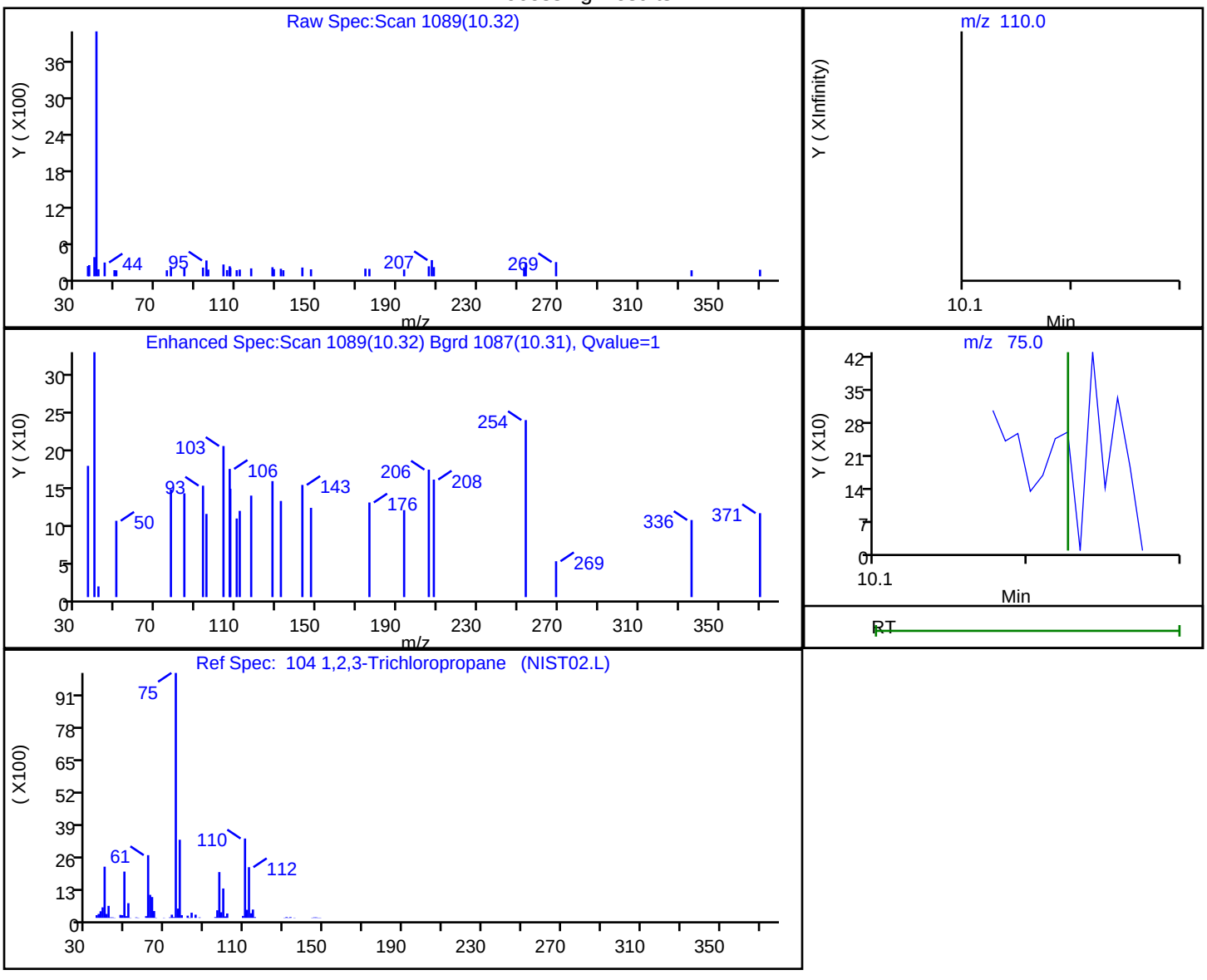
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
10.32	110.00	51	0.046068
10.33	75.00	277	

Reviewer: delpolitov, 08-Jul-2018 17:42:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

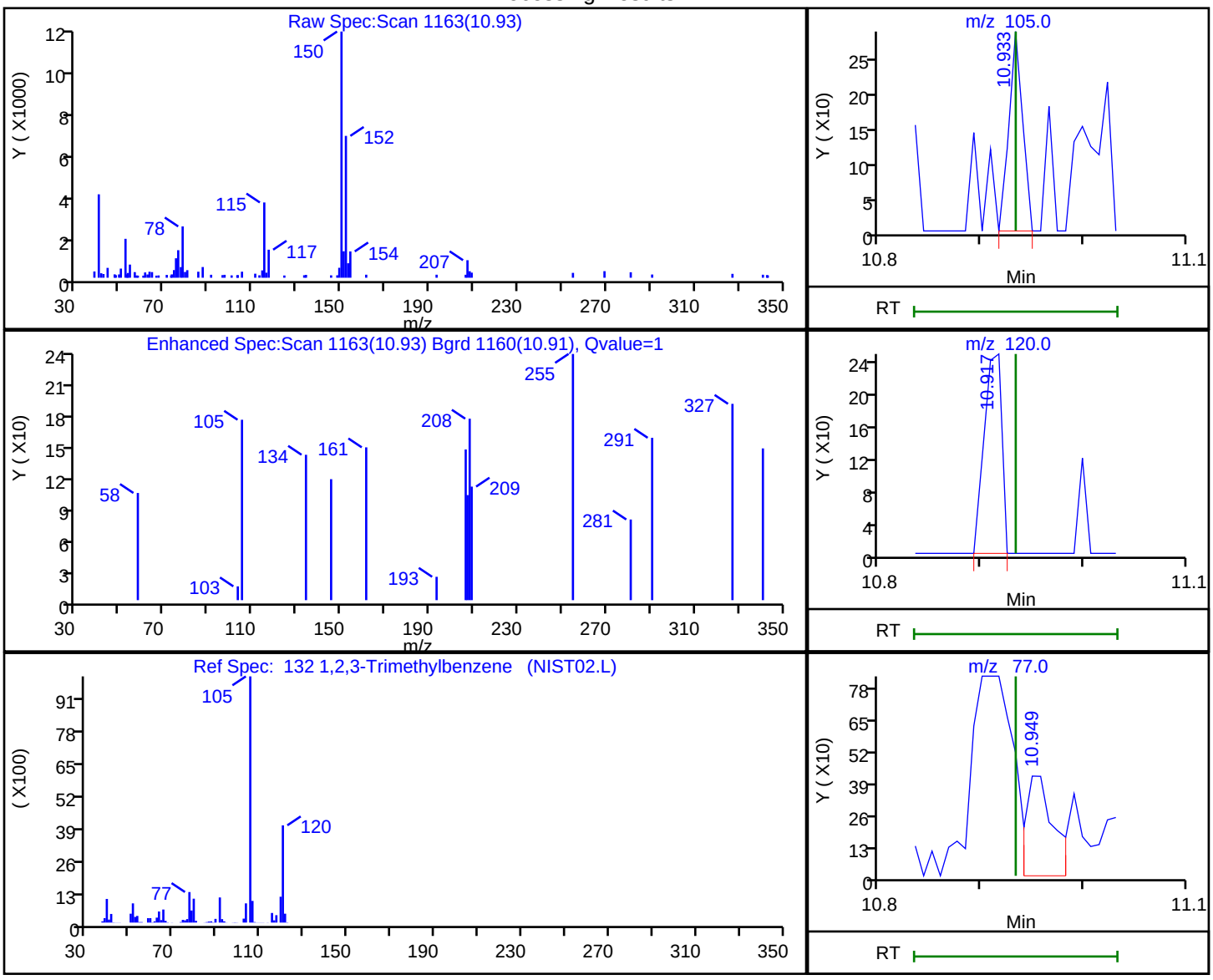
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

132 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.93	105.00	269	0.017945
10.92	120.00	300	
10.95	77.00	784	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

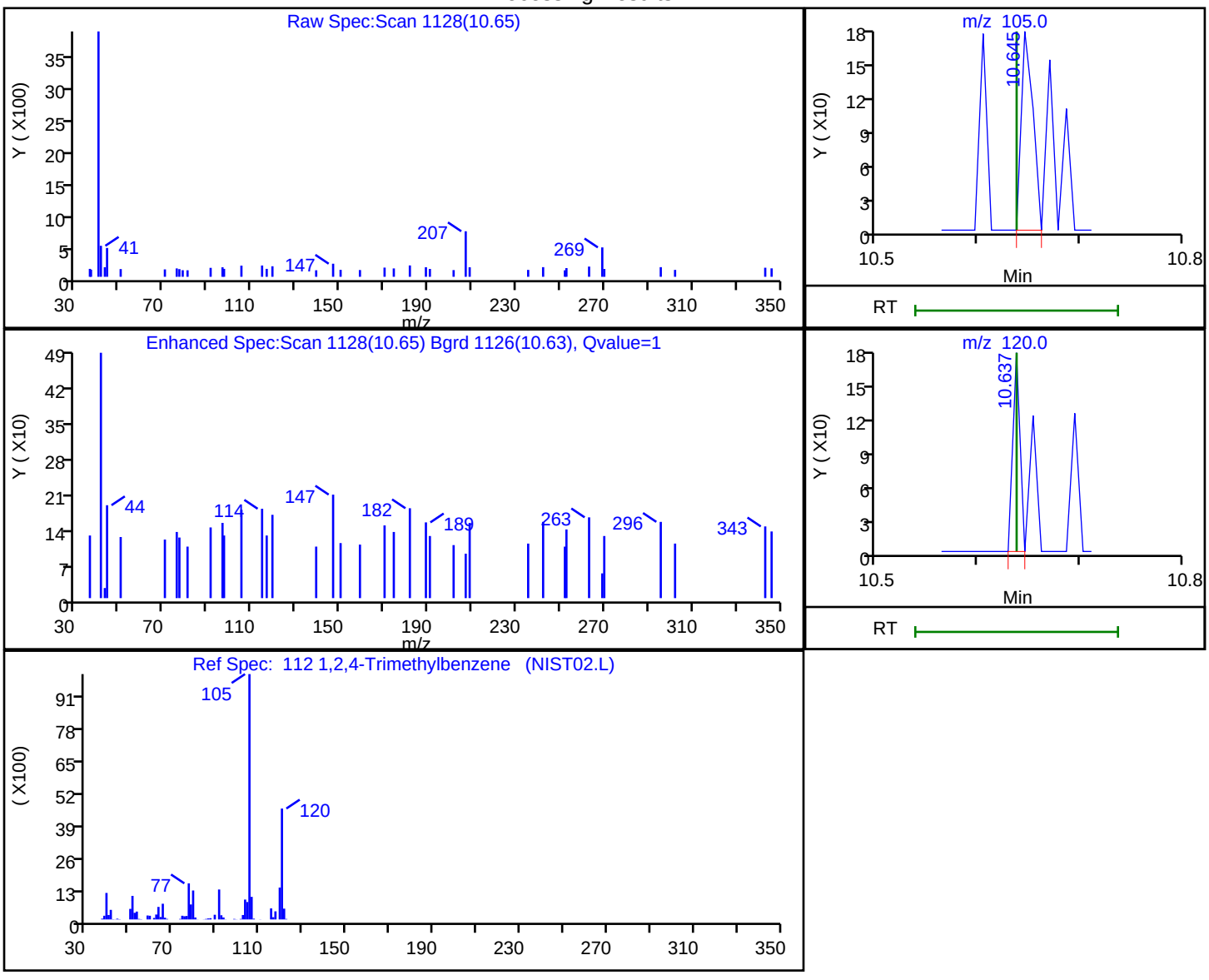
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.65	105.00	139	0.009853
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

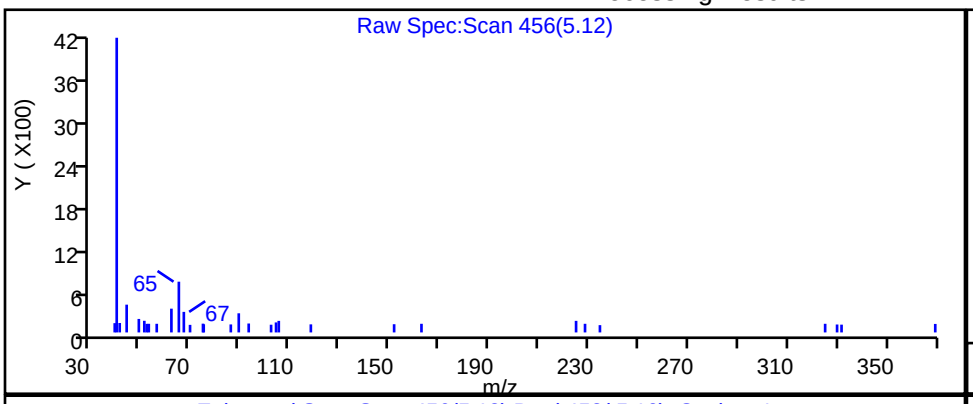
User Disabled Compound Report

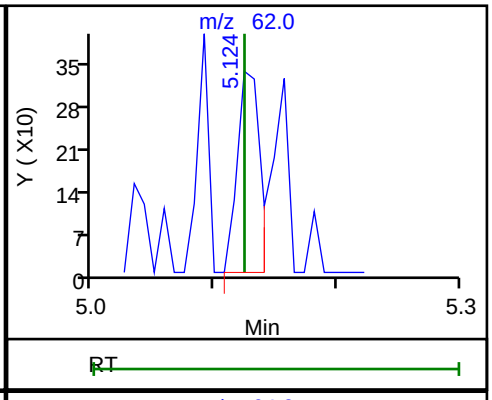
TestAmerica Edison

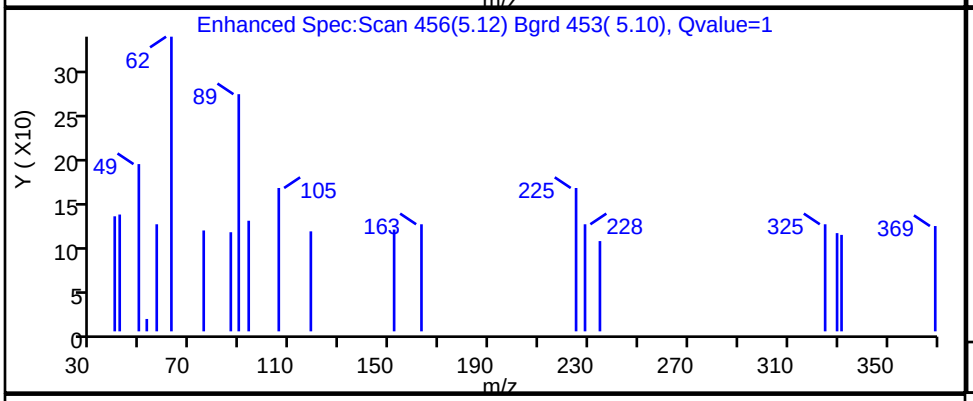
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

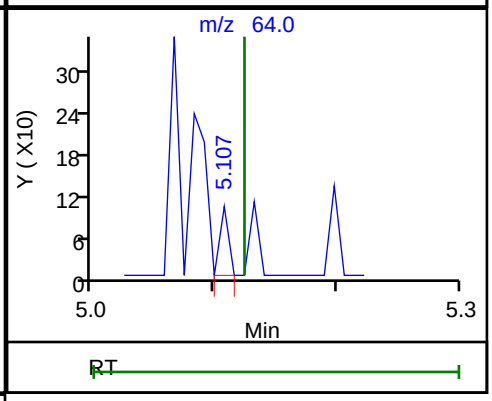
59 1,2-Dichloroethane, CAS: 107-06-2

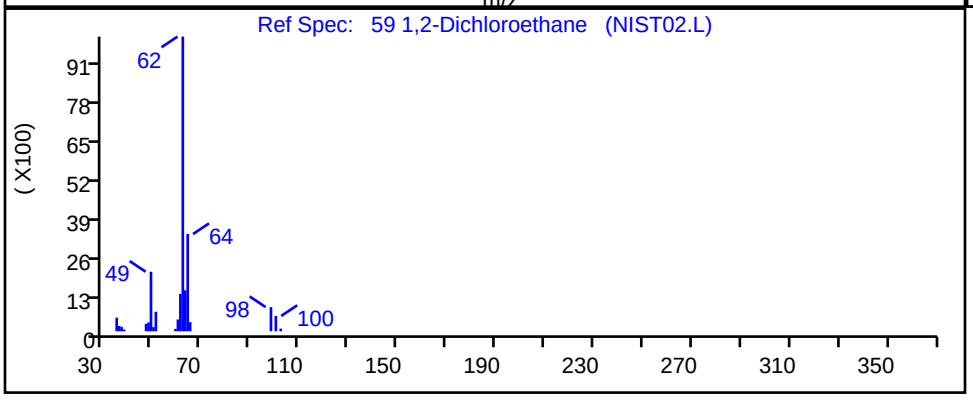
Processing Results











RT	Mass	Response	Amount
5.12	62.00	435	0.089154
5.11	64.00	49	

Reviewer: delpolitov, 08-Jul-2018 17:41:57

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

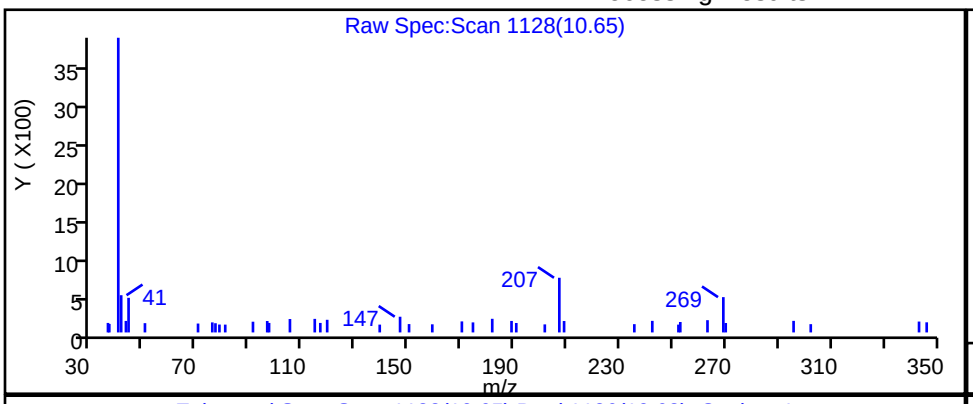
User Disabled Compound Report

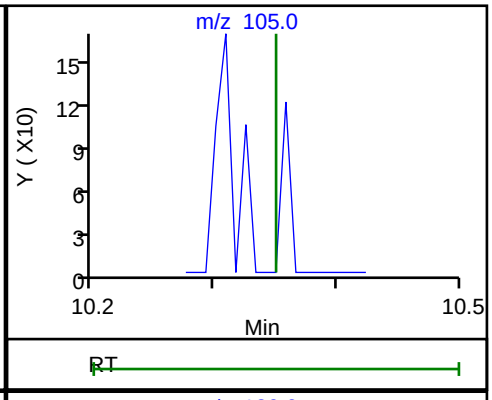
TestAmerica Edison

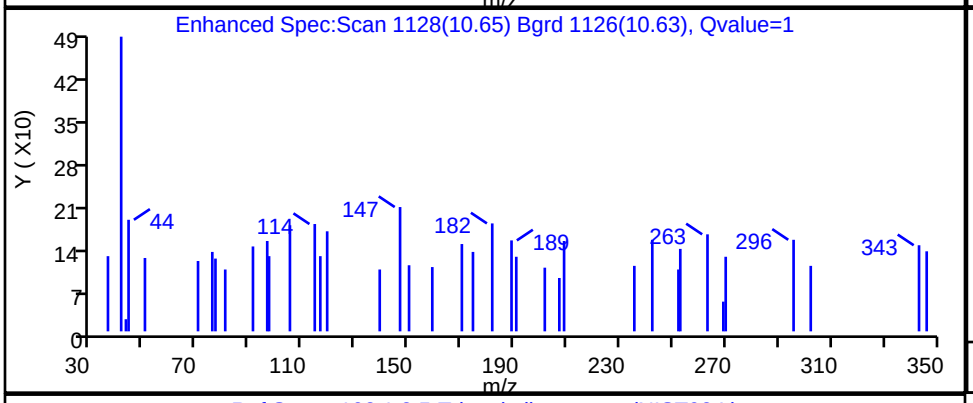
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

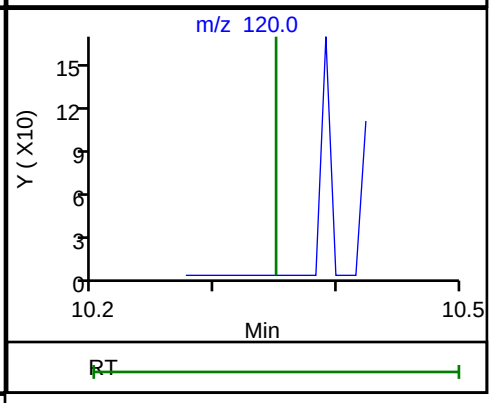
108 1,3,5-Trimethylbenzene, CAS: 108-67-8

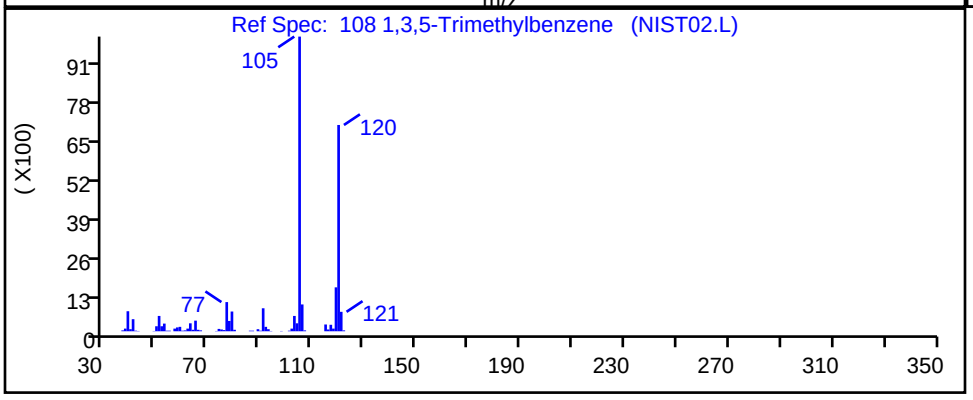
Processing Results











RT	Mass	Response	Amount
10.65	105.00	139	0.010024
10.64	120.00	86	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

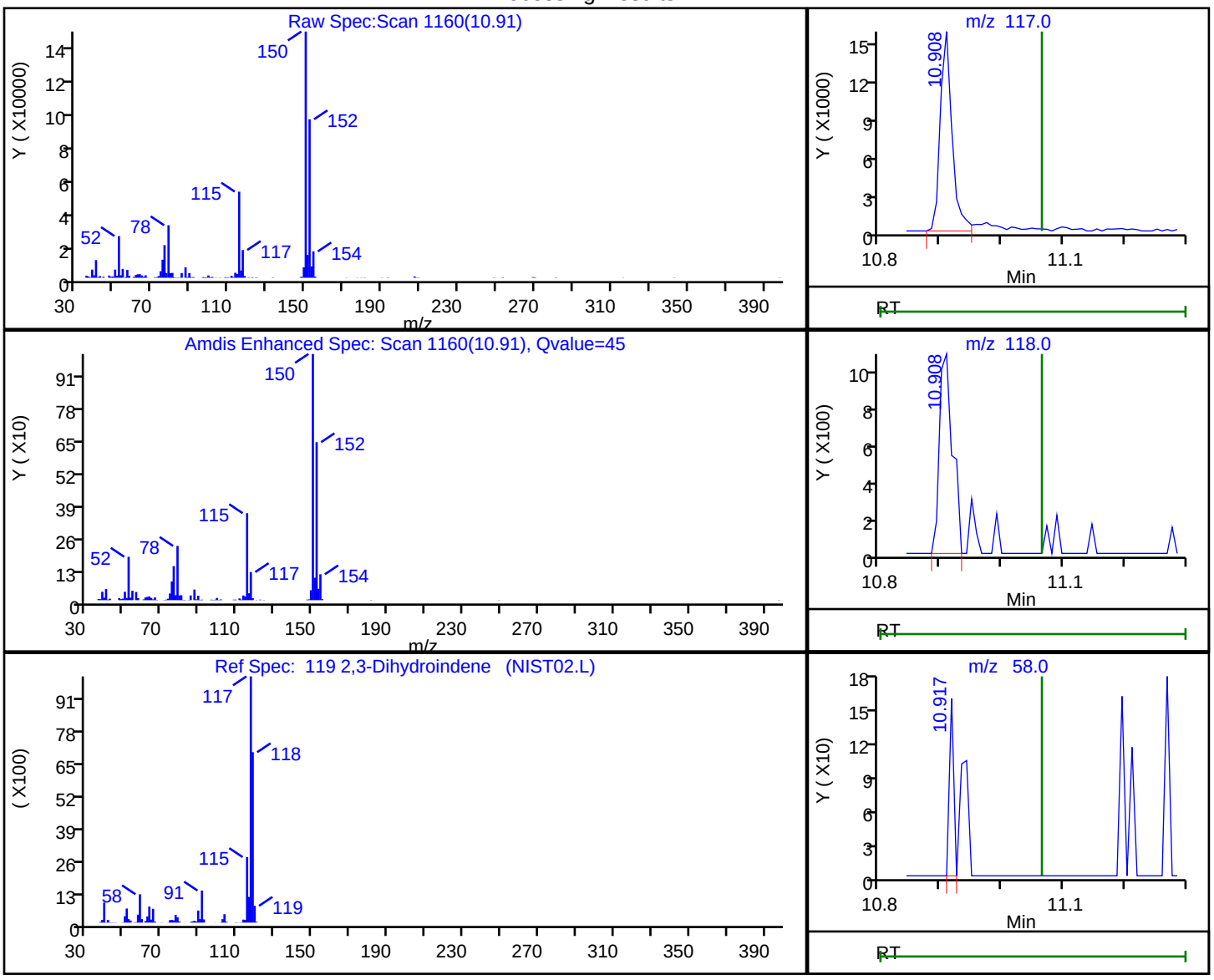
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

119 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.91	117.00	21528	1.428457
10.91	118.00	1542	
10.92	58.00	79	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

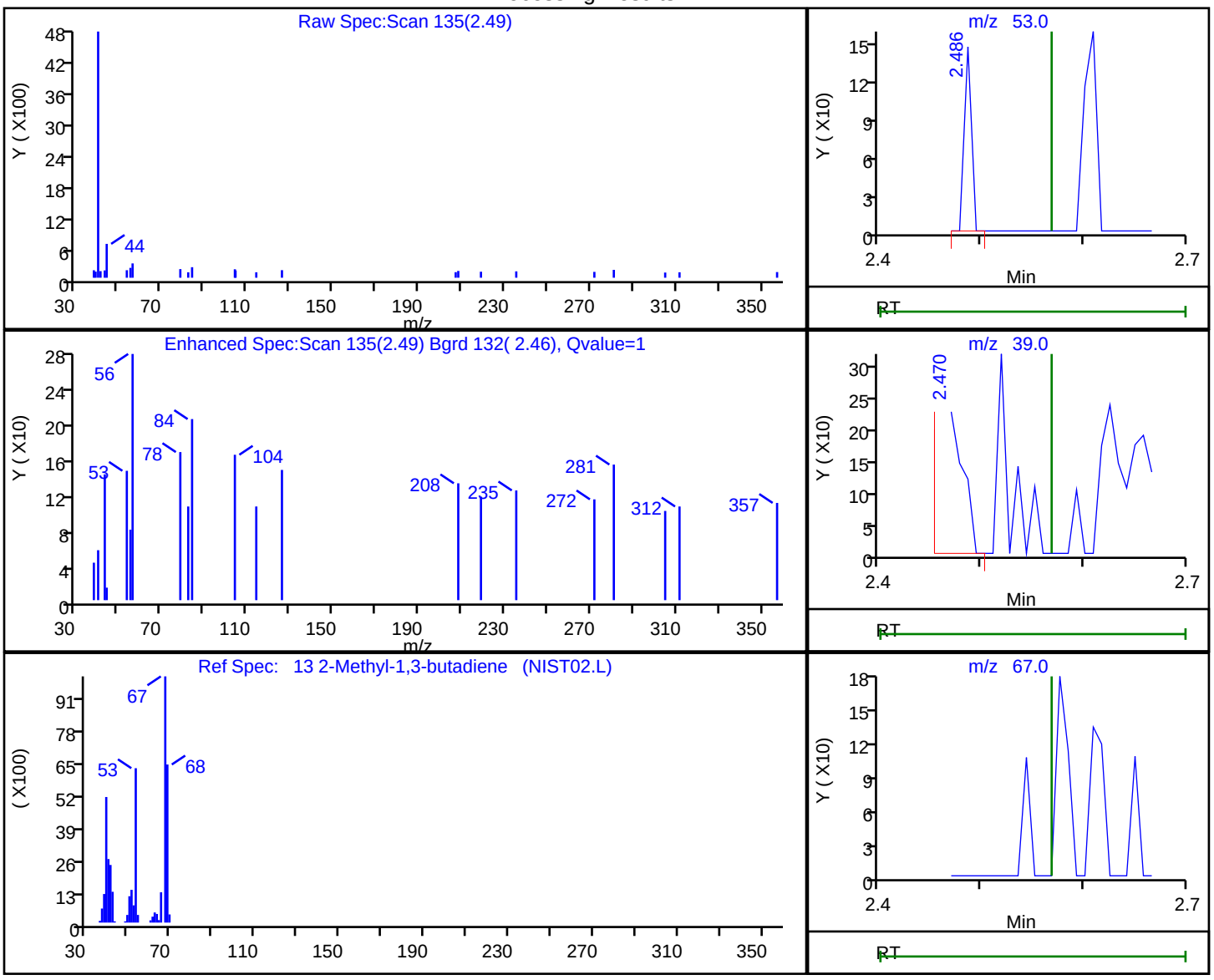
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
2.49	53.00	71	0.020605
2.47	39.00	338	
2.57	67.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

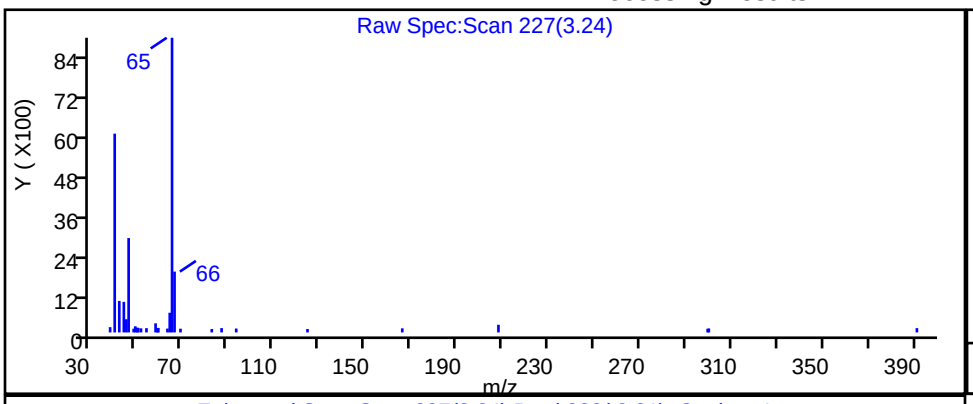
User Disabled Compound Report

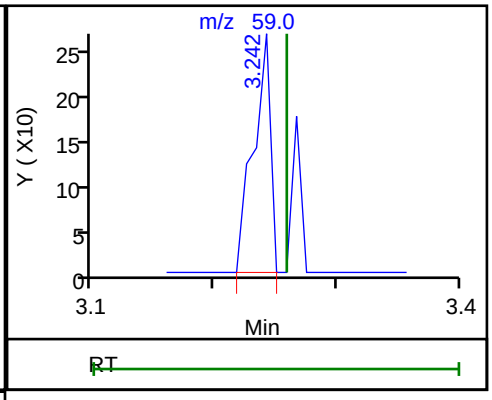
TestAmerica Edison

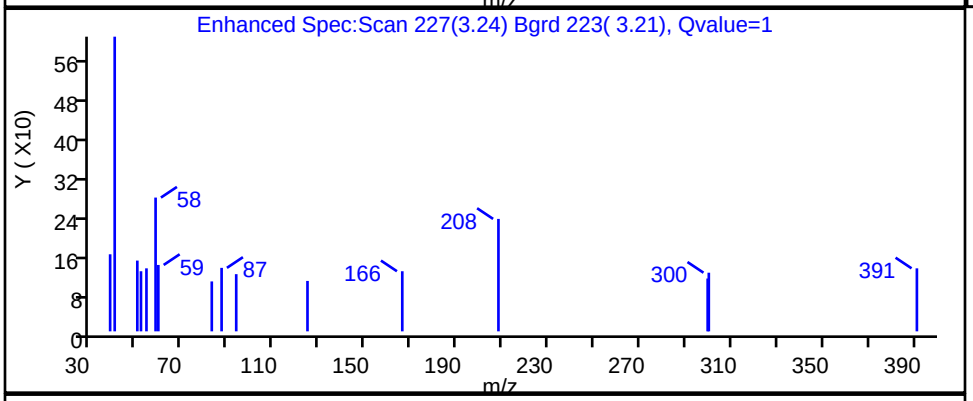
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

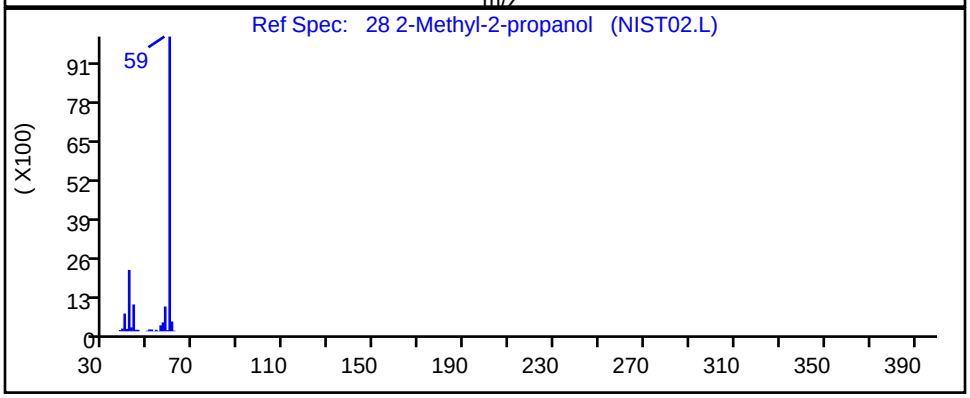
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
3.24	59.00	259	1.228827

Reviewer: delpolitov, 08-Jul-2018 17:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

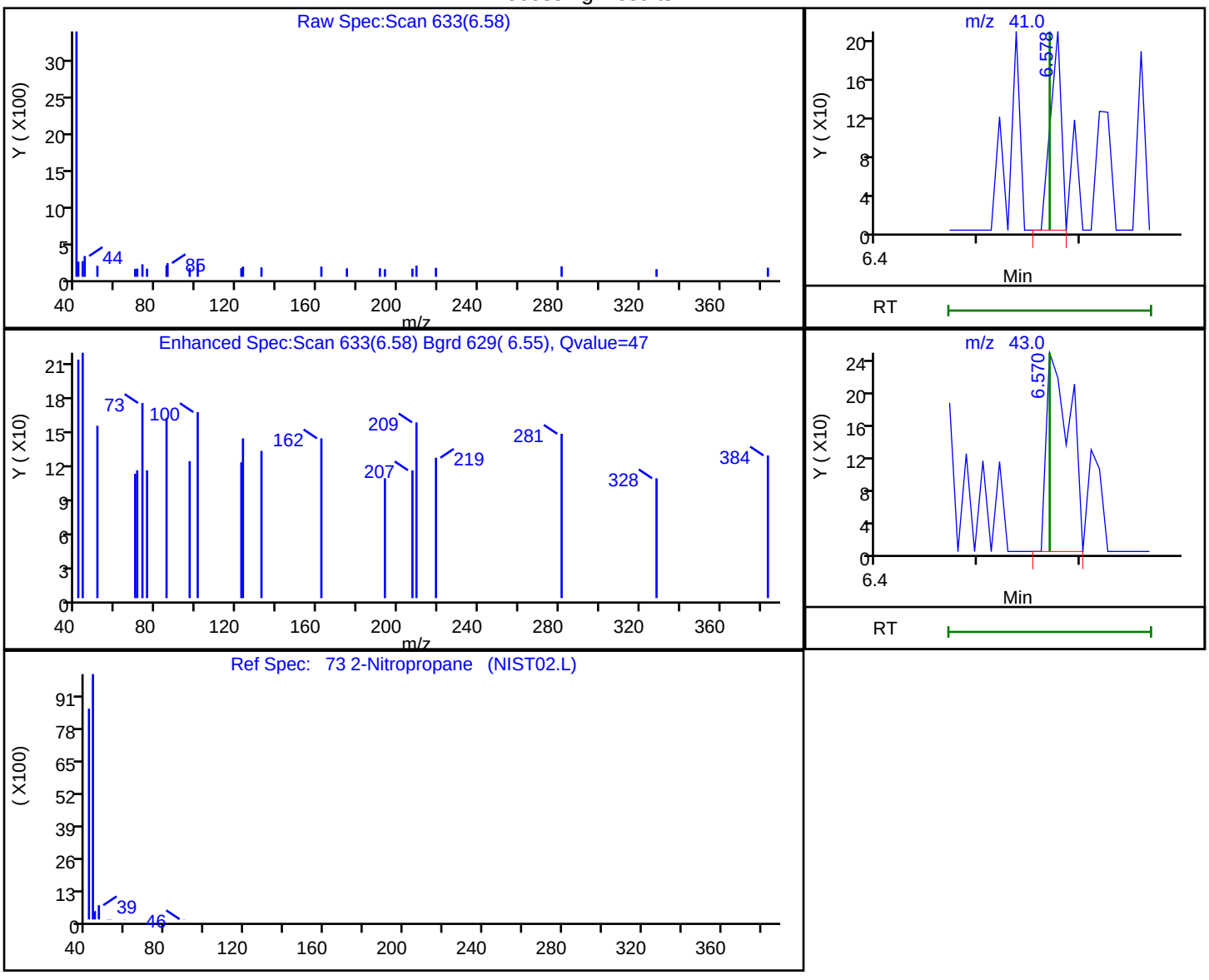
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

73 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
6.58	41.00	155	0.212127
6.57	43.00	394	

Reviewer: delpolitov, 08-Jul-2018 17:41:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

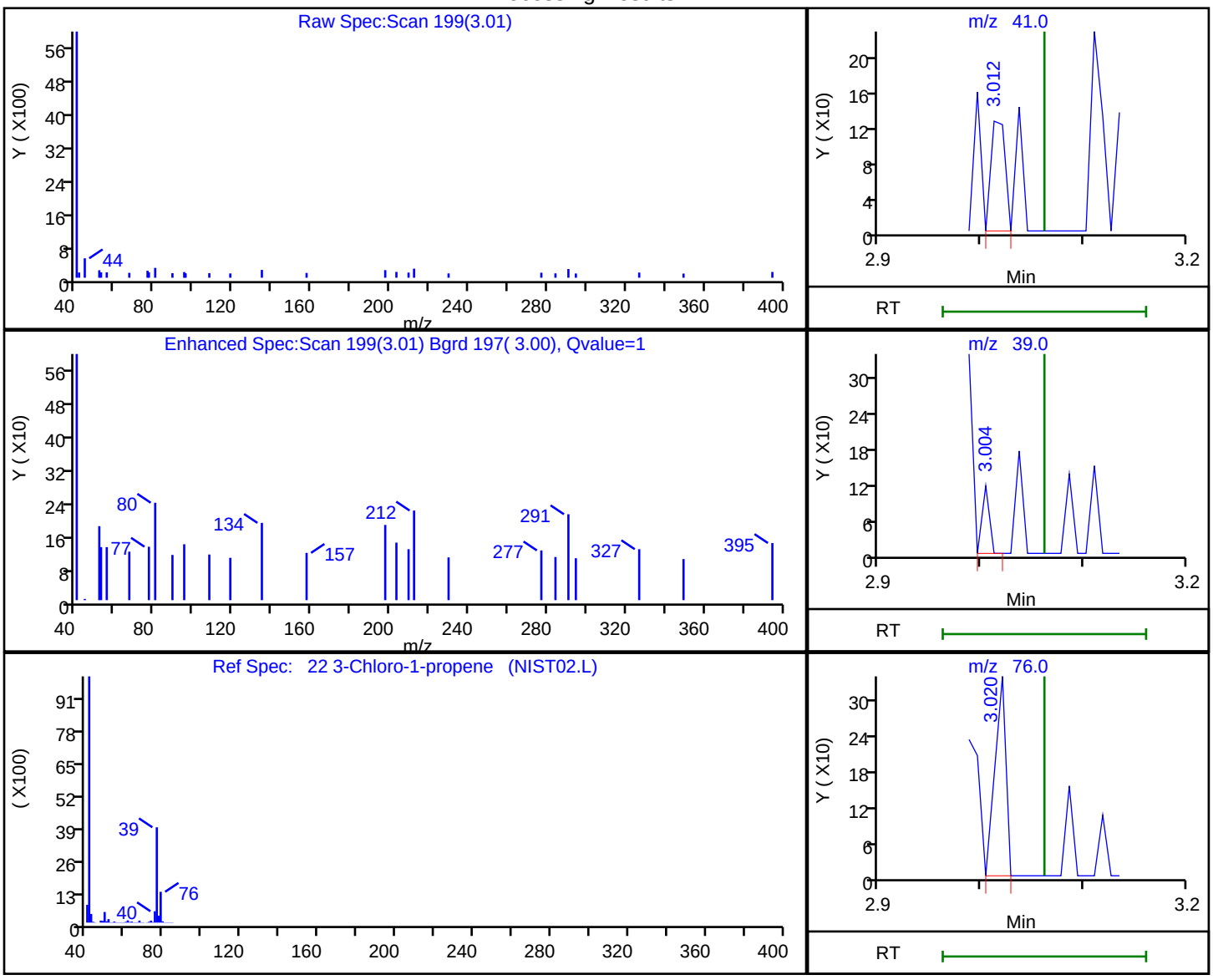
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.01	41.00	121	0.016574
3.00	39.00	56	
3.02	76.00	248	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

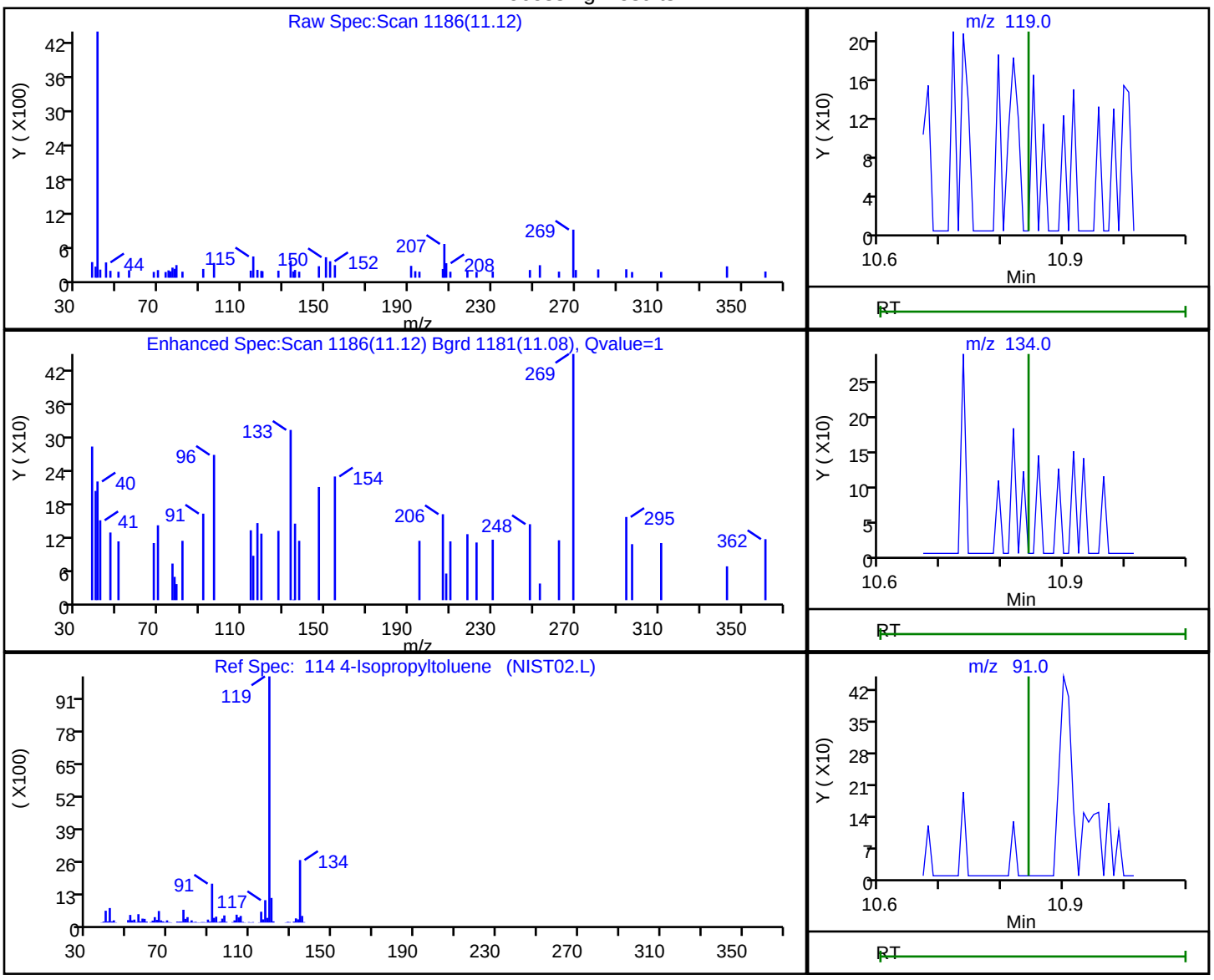
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.035044
11.12	134.00	55	
11.11	91.00	172	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

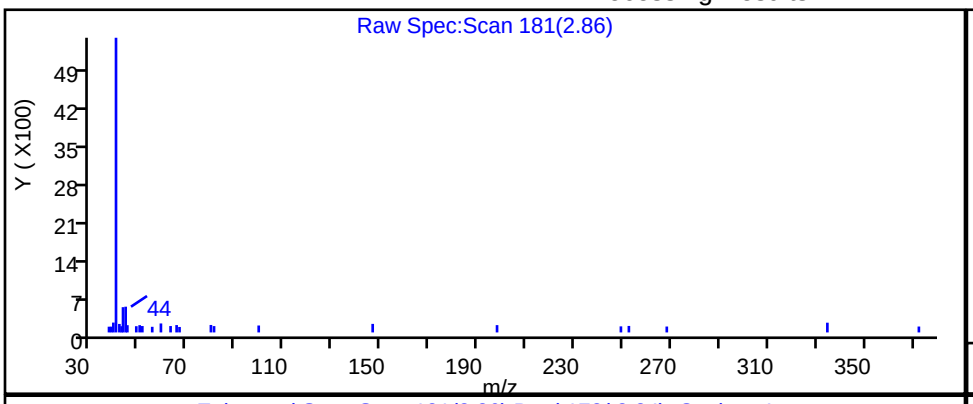
User Disabled Compound Report

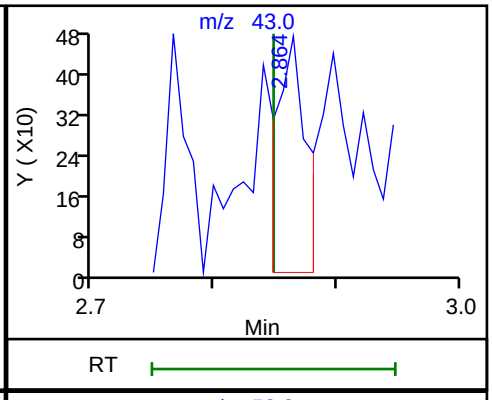
TestAmerica Edison

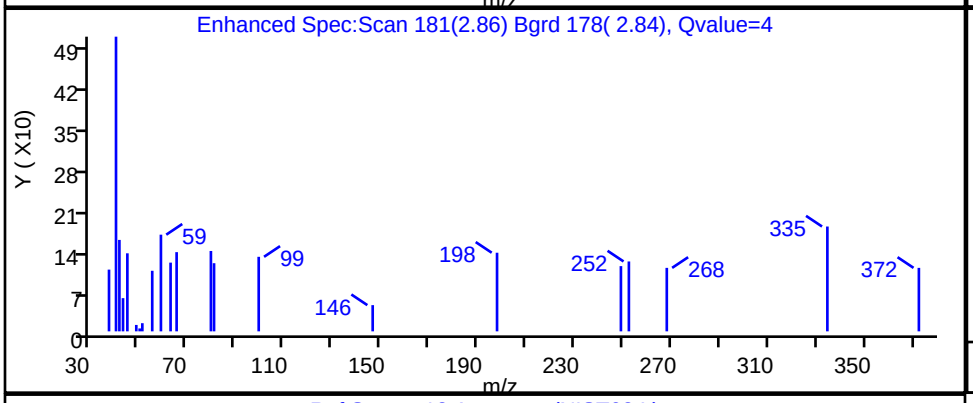
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

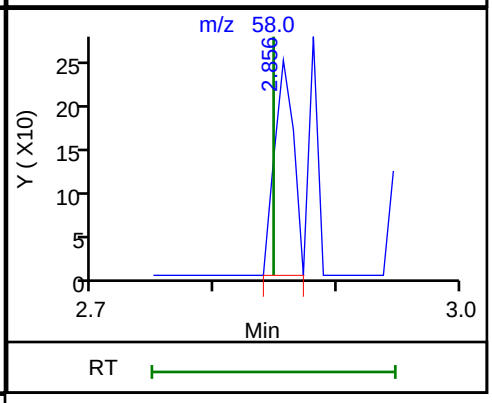
18 Acetone, CAS: 67-64-1

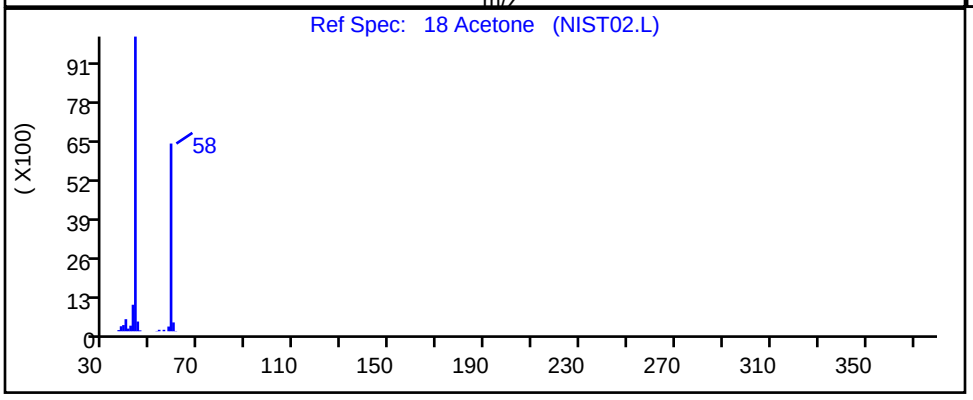
Processing Results











RT	Mass	Response	Amount
2.86	43.00	804	1.057880
2.86	58.00	267	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

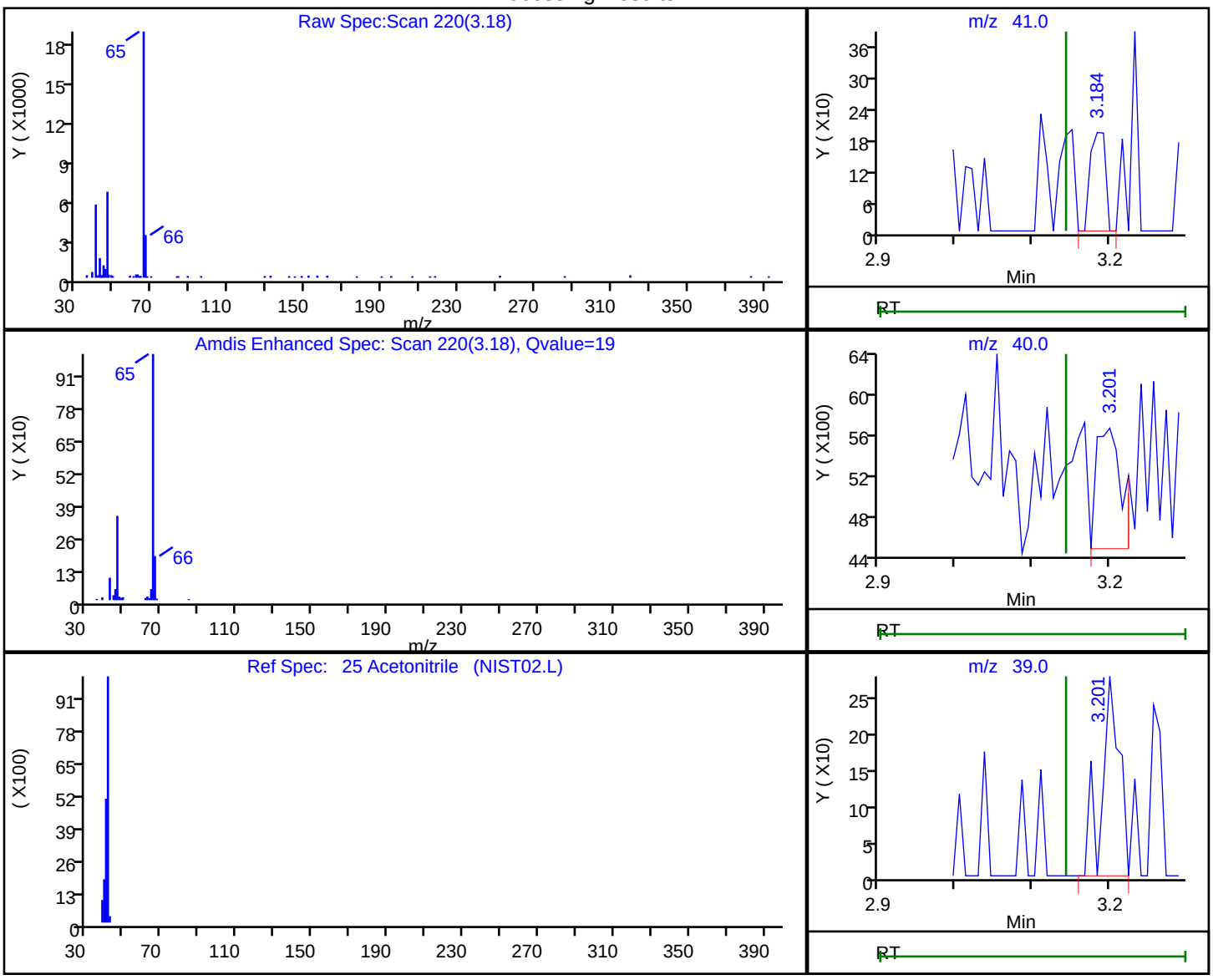
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
3.18	41.00	264	0.389556
3.20	40.00	2550	
3.20	39.00	450	
3.18	38.00	738	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

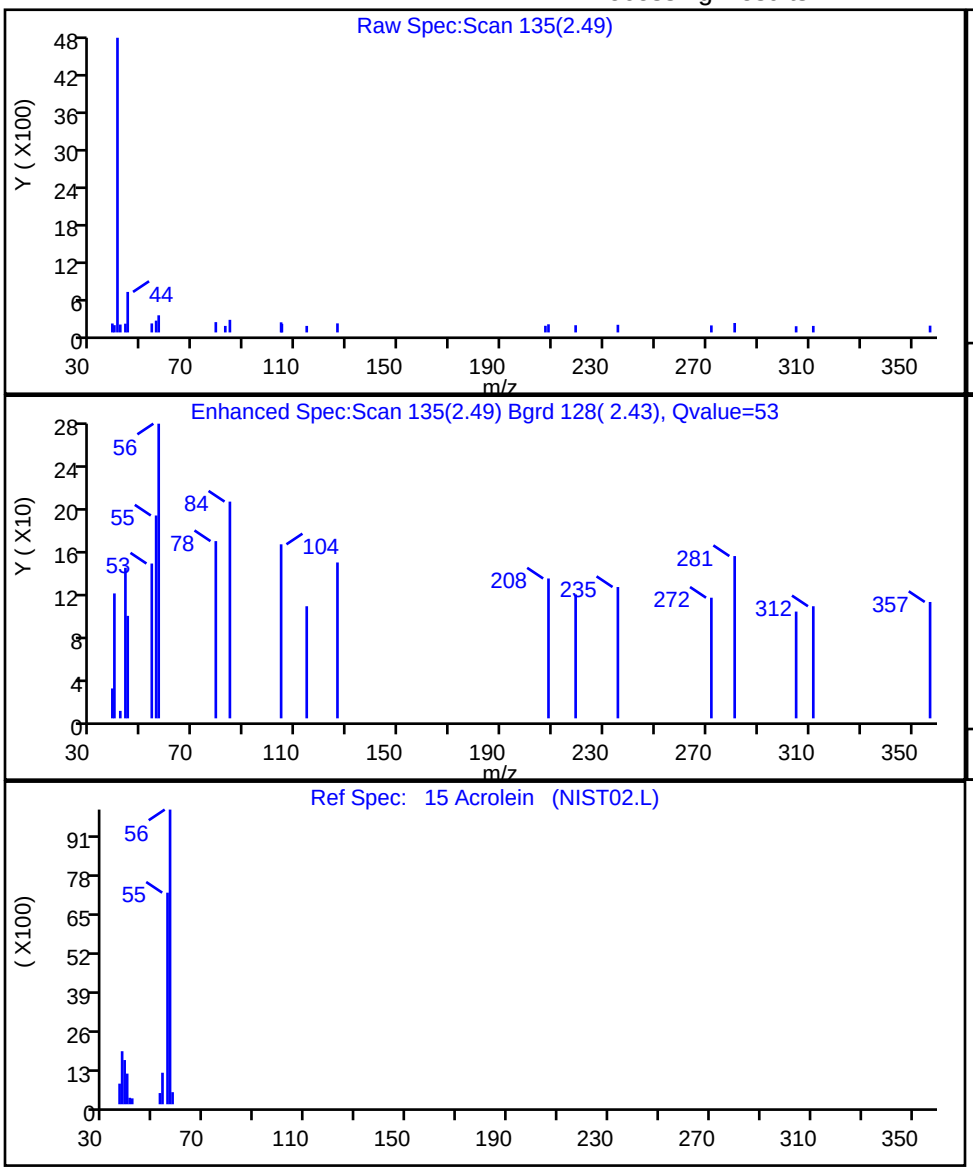
User Disabled Compound Report

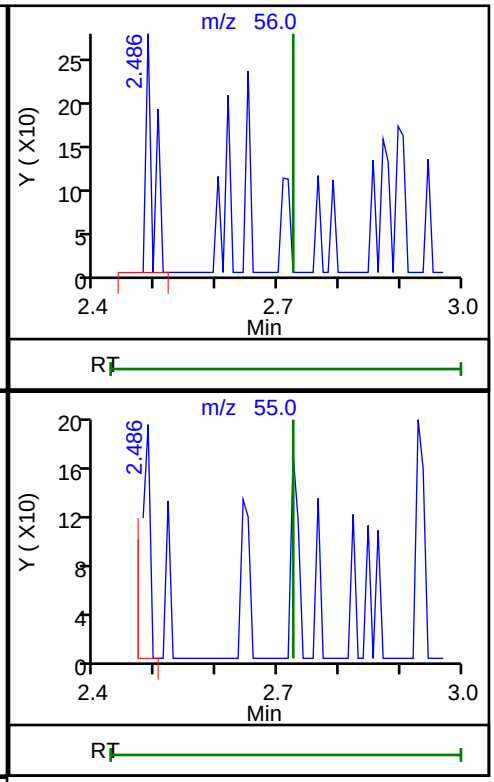
TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 Acrolein, CAS: 107-02-8

Processing Results





RT	Mass	Response	Amount
2.49	56.00	308	1.449360
2.49	55.00	203	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

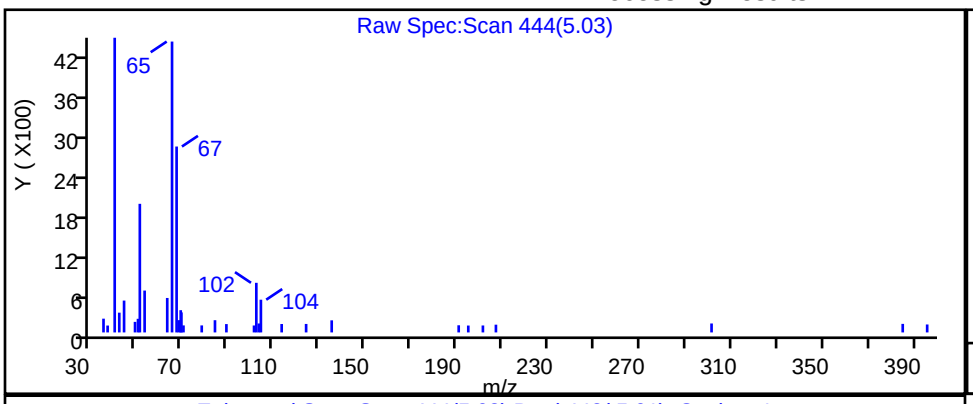
User Disabled Compound Report

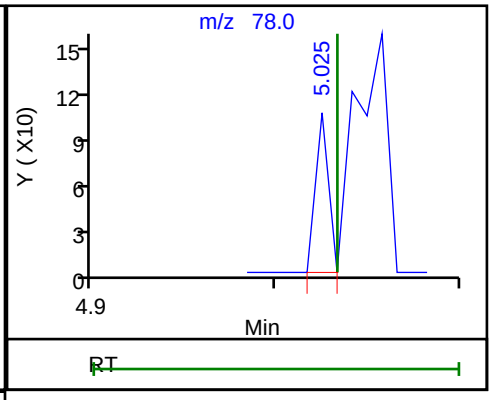
TestAmerica Edison

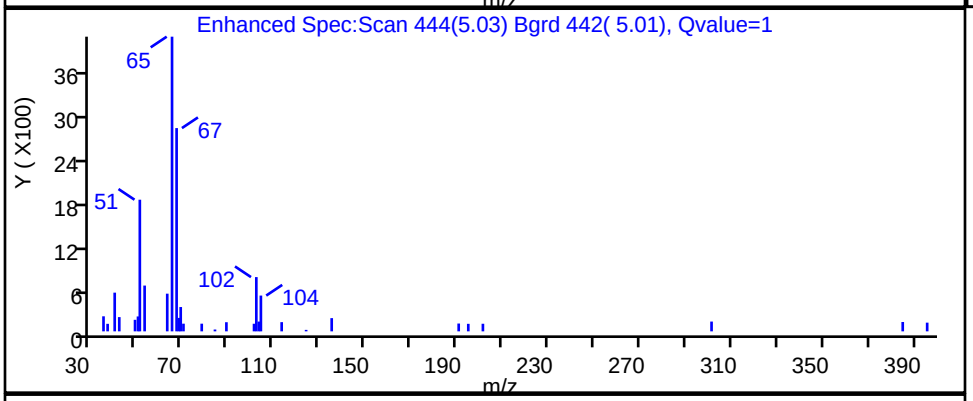
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

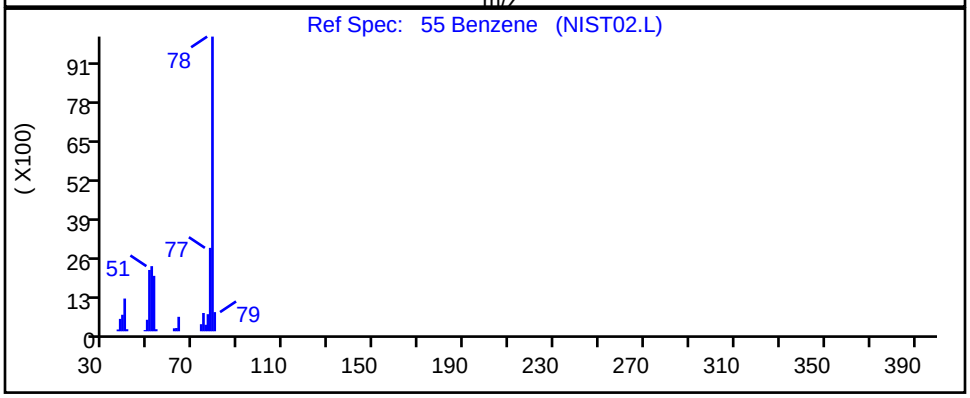
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
5.03	78.00	52	0.003313

Reviewer: delpolitov, 08-Jul-2018 17:28:12

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

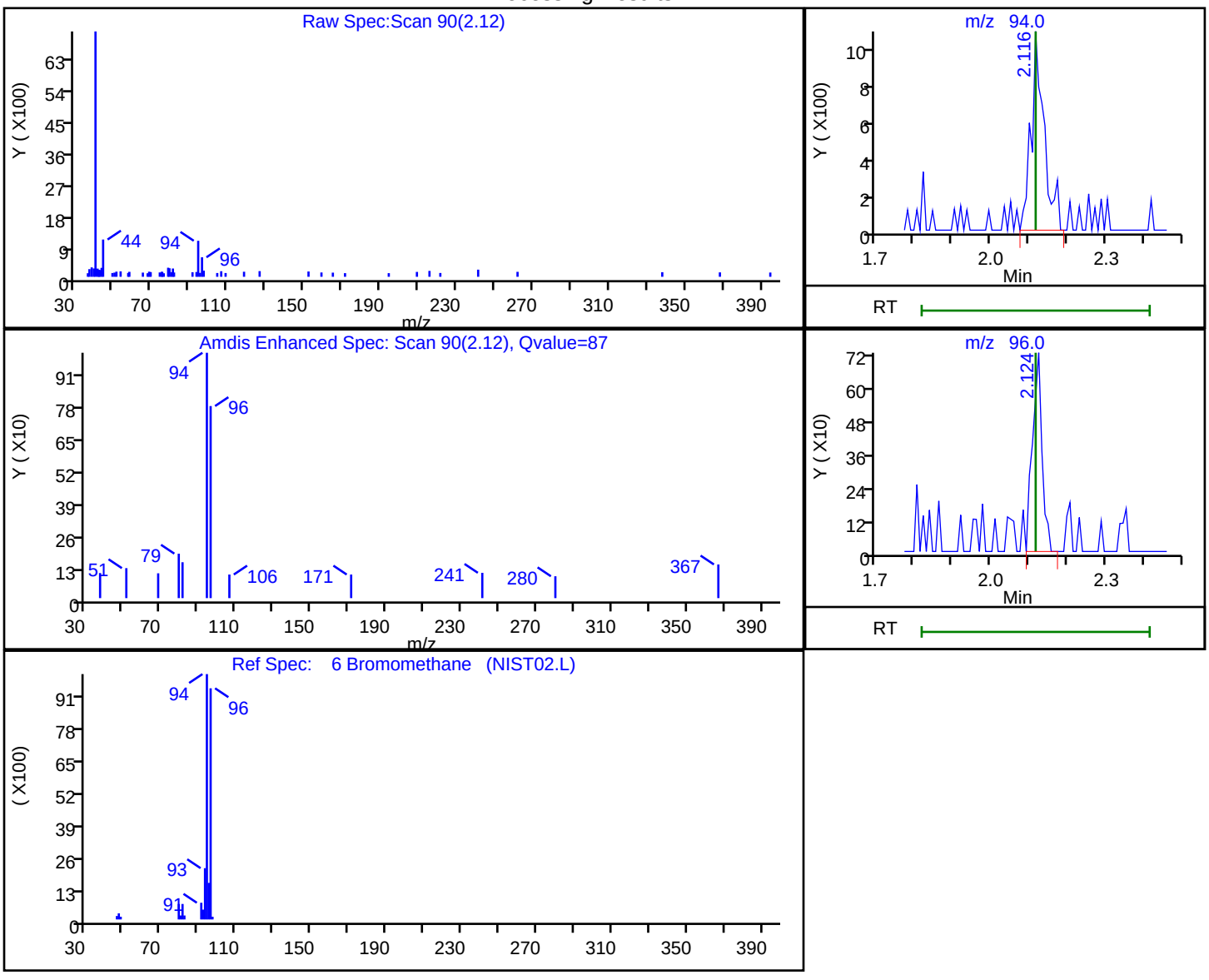
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.12	94.00	2459	0.511360
2.12	96.00	1264	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

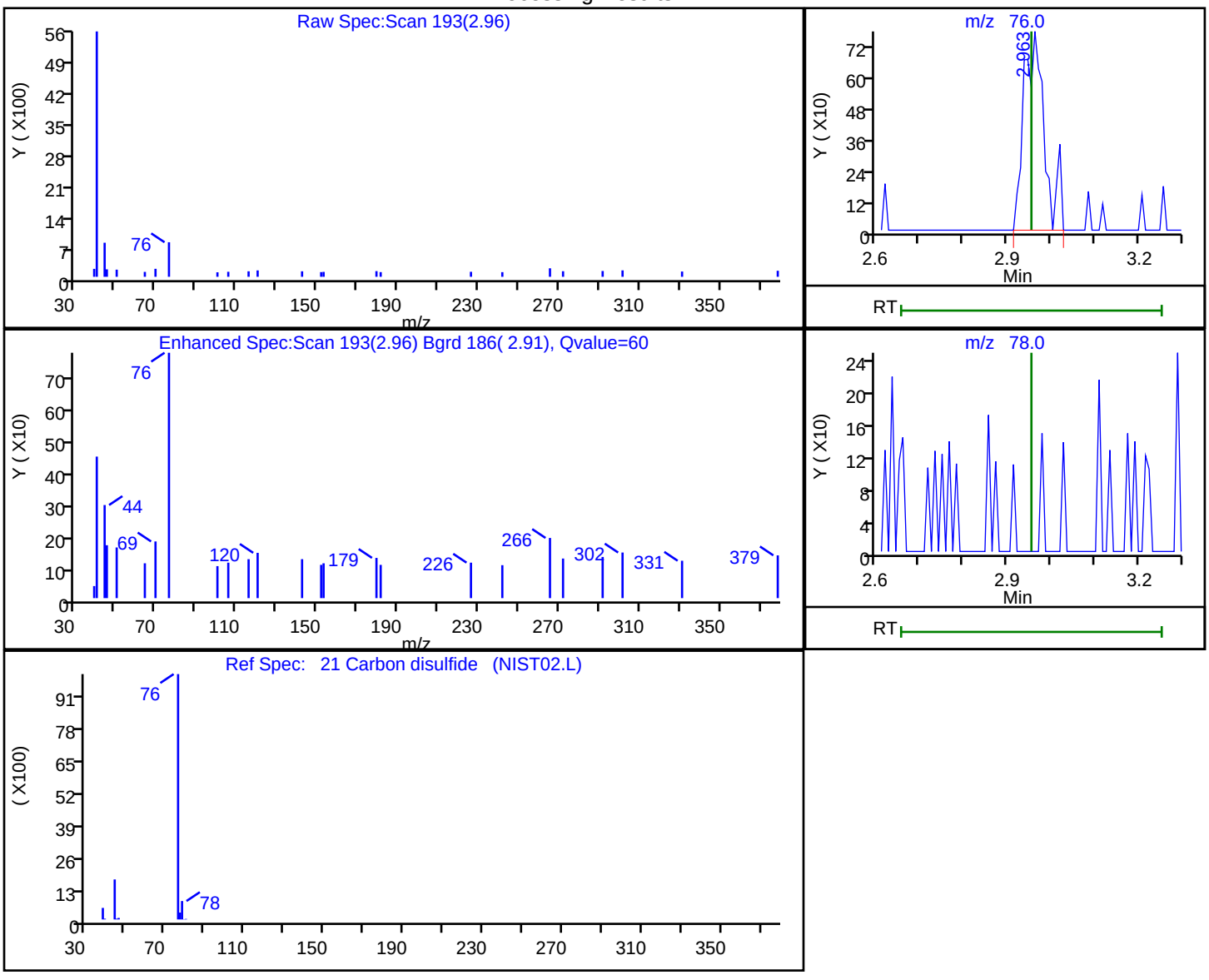
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.96	76.00	2561	0.167750
2.95	78.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

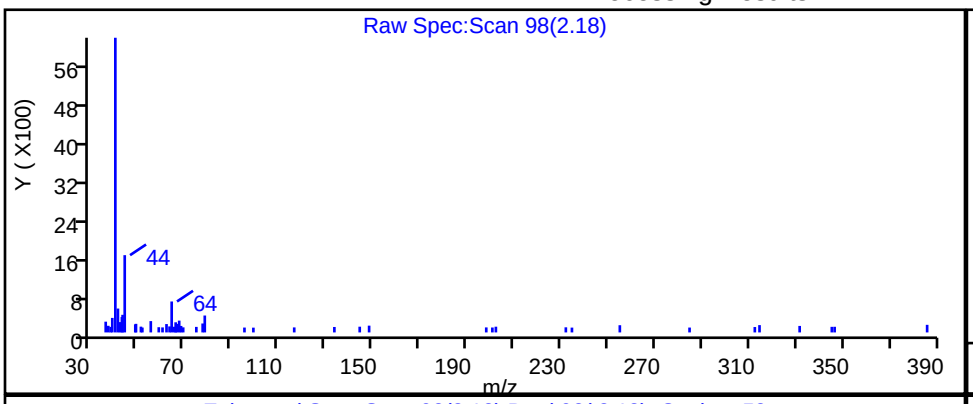
User Disabled Compound Report

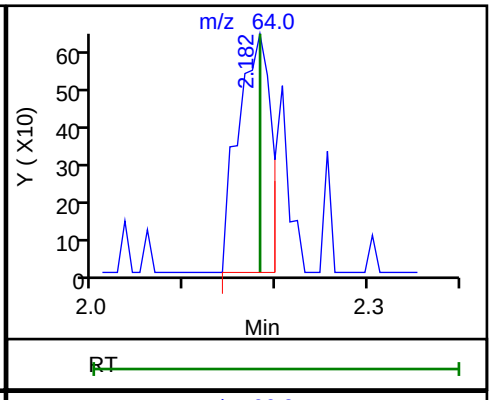
TestAmerica Edison

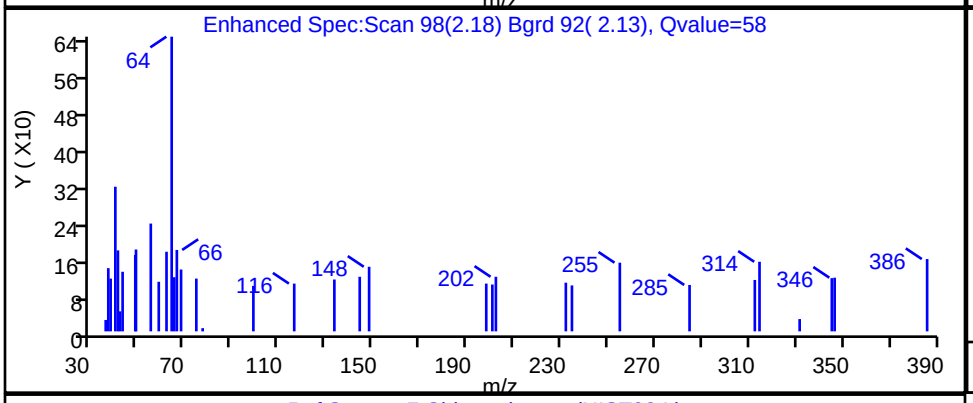
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

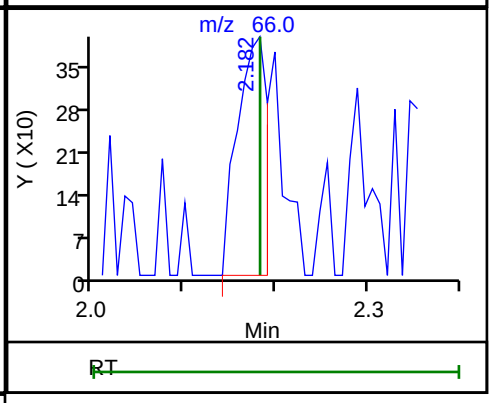
7 Chloroethane, CAS: 75-00-3

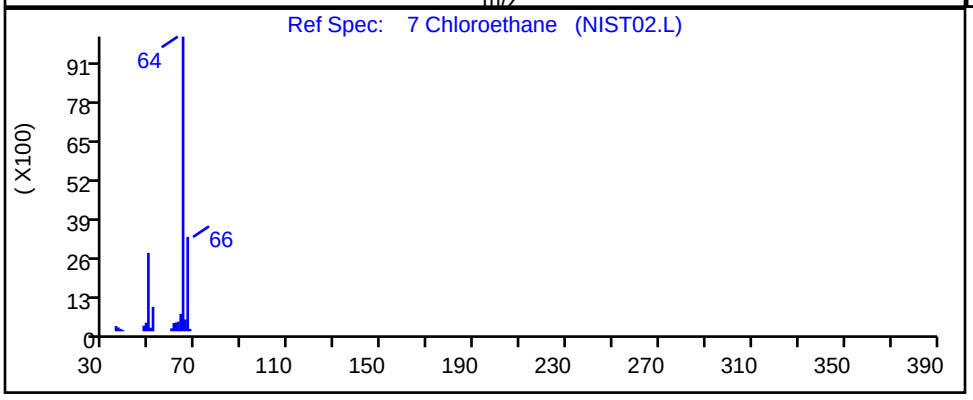
Processing Results











RT	Mass	Response	Amount
2.18	64.00	1609	0.352180
2.18	66.00	880	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

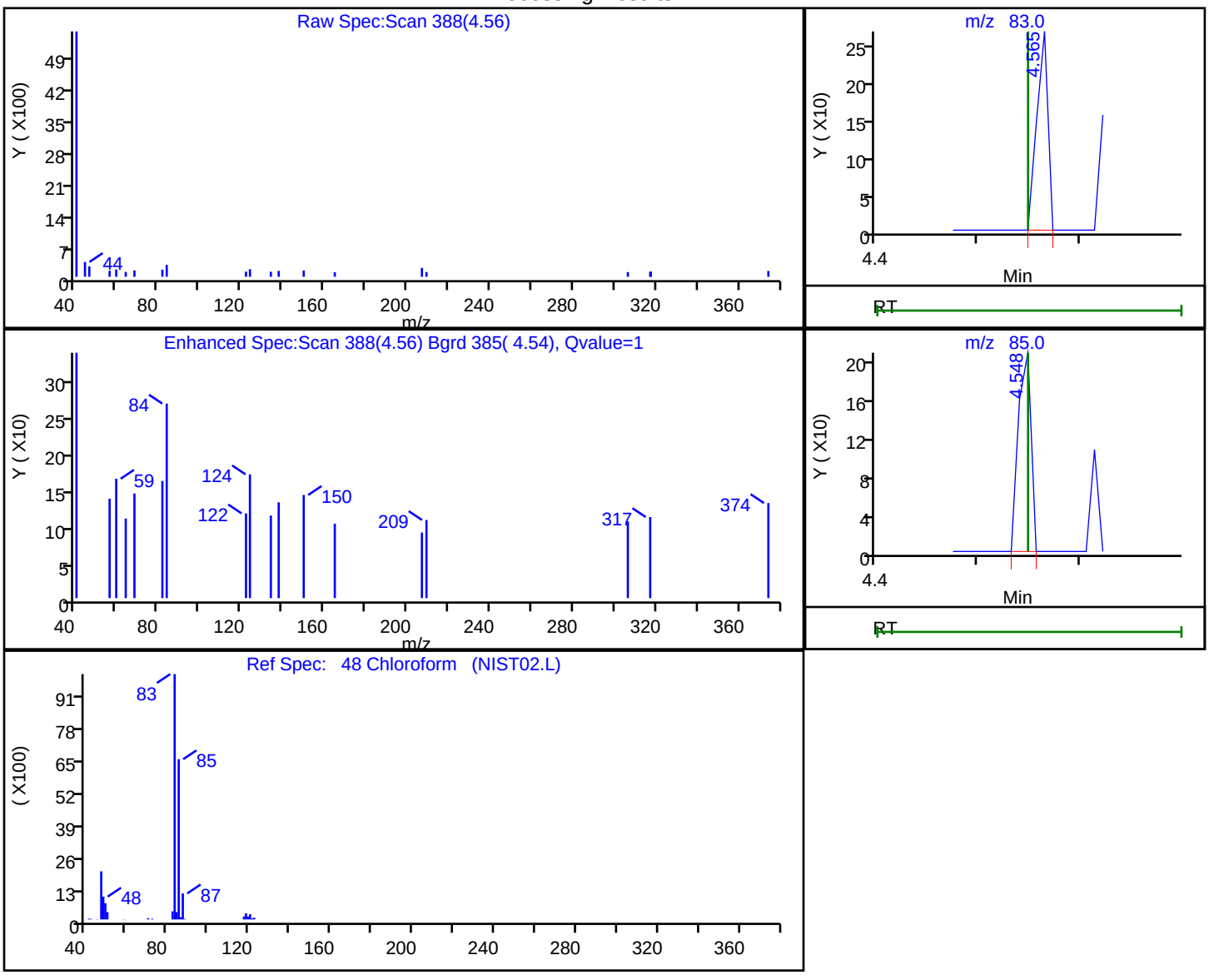
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

48 Chloroform, CAS: 67-66-3

Processing Results



RT	Mass	Response	Amount
4.56	83.00	200	0.029537
4.55	85.00	182	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

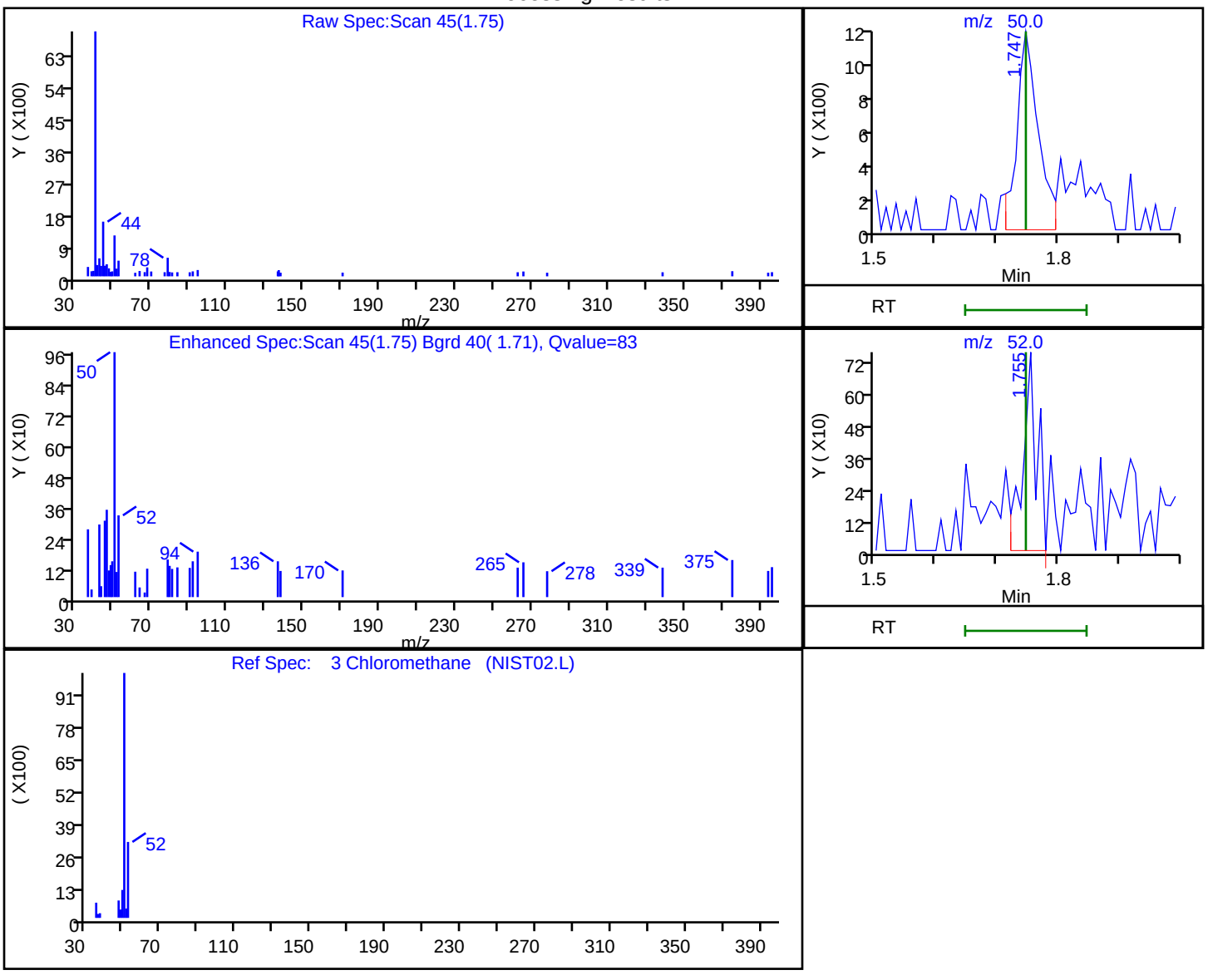
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.75	50.00	2848	0.389073
1.75	52.00	1225	

Reviewer: delpolitov, 08-Jul-2018 17:27:50

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

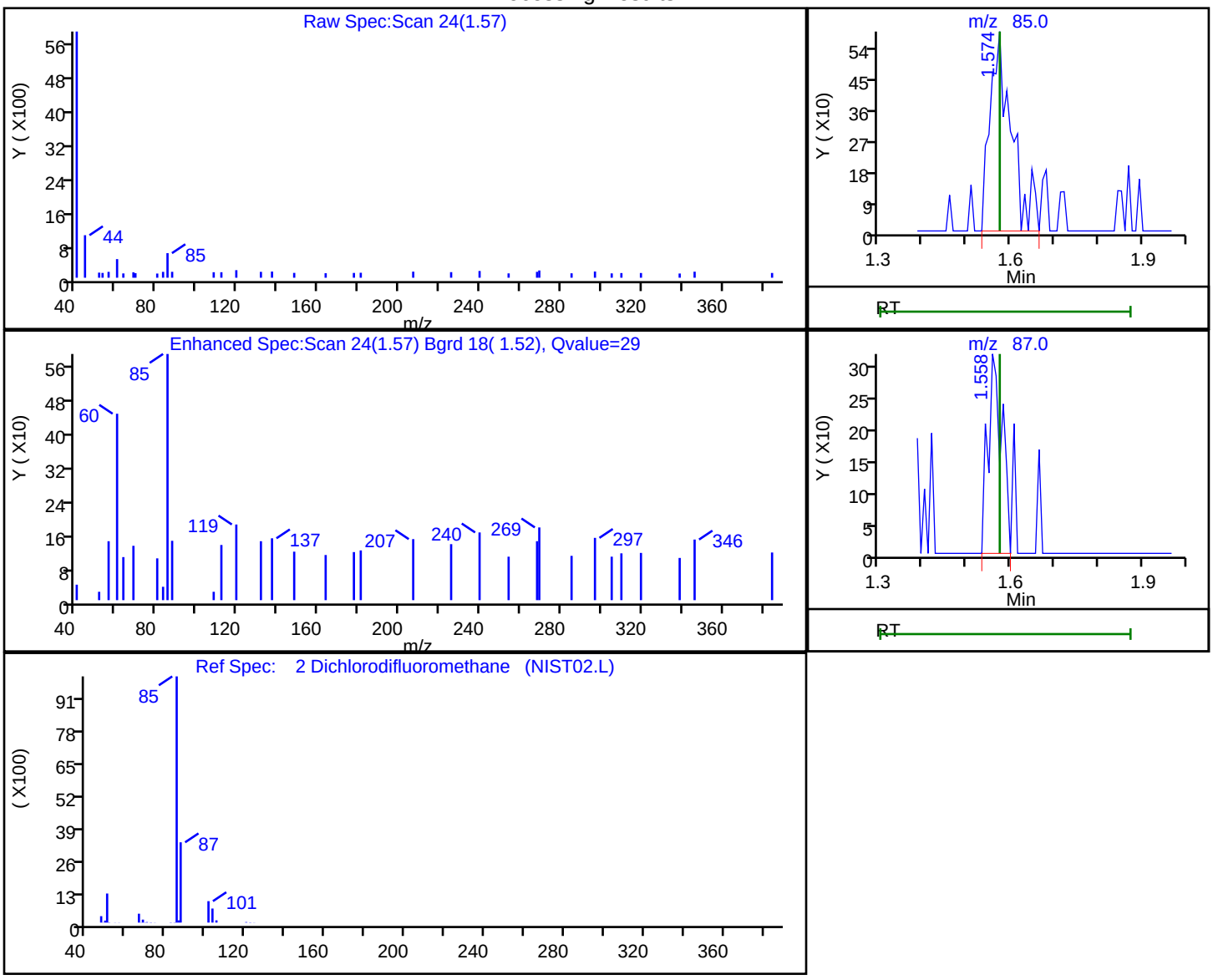
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Processing Results



RT	Mass	Response	Amount
1.57	85.00	2000	0.323927
1.56	87.00	708	

Reviewer: delpolitov, 08-Jul-2018 17:27:50
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

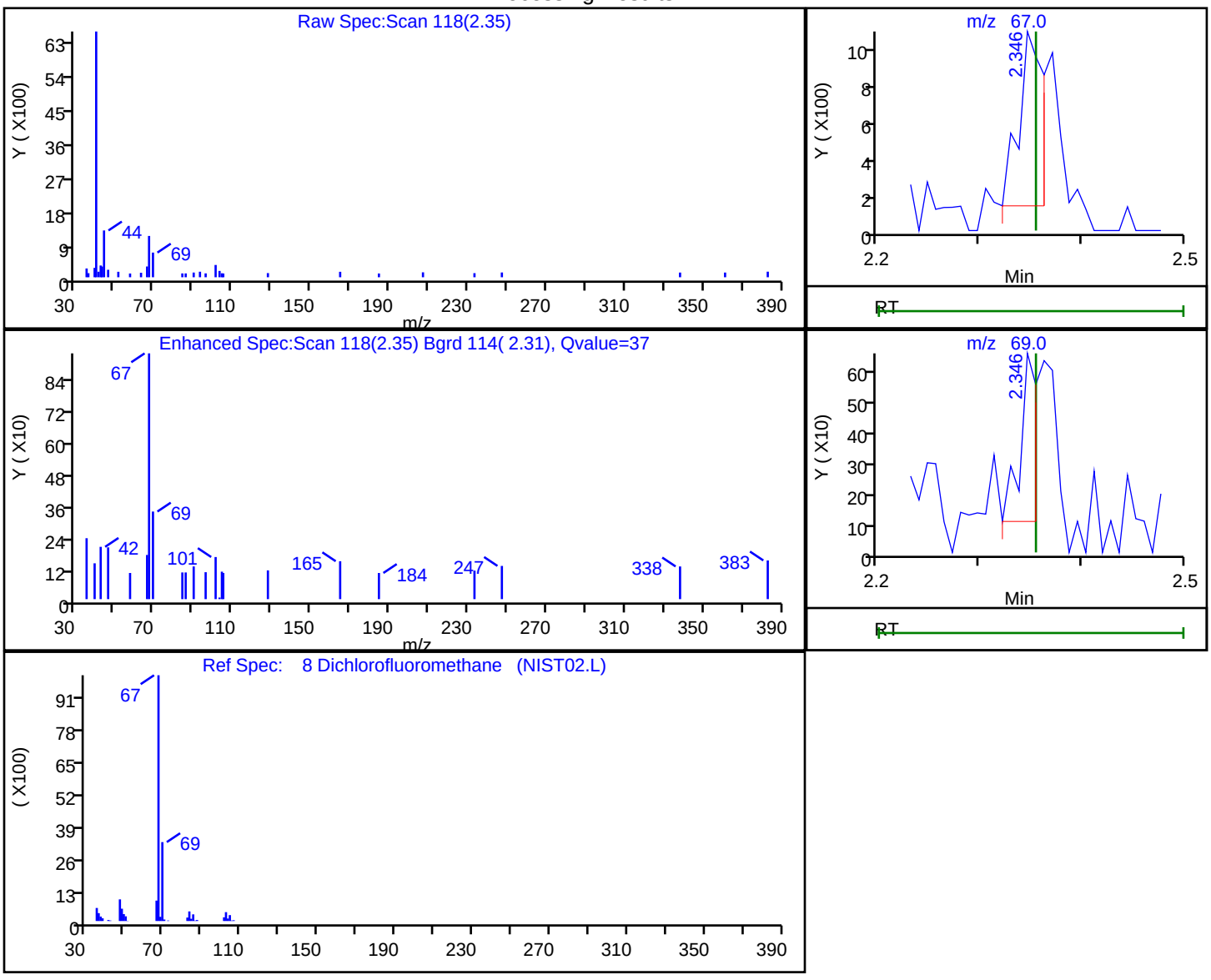
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.35	67.00	1585	0.183216
2.35	69.00	634	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

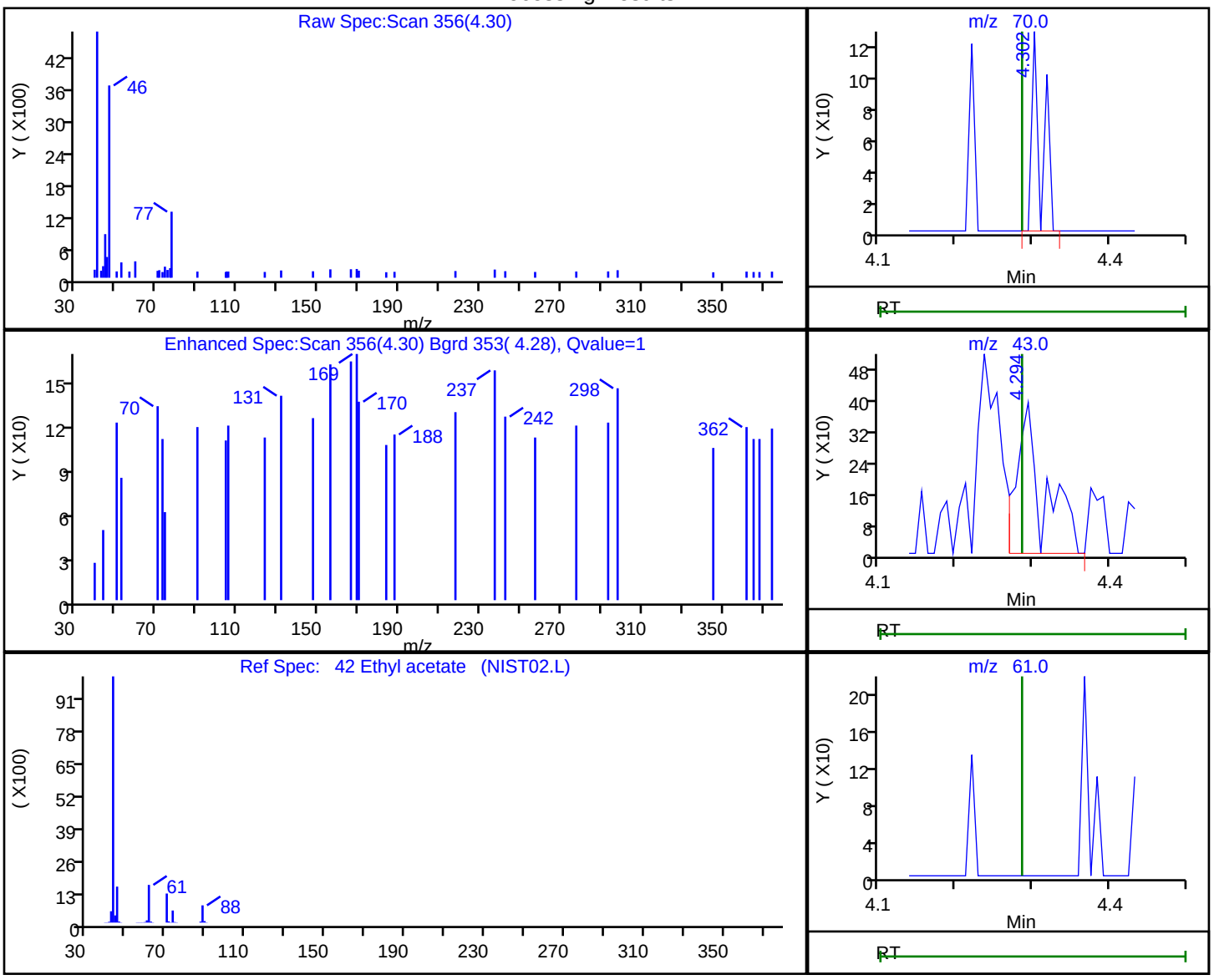
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
4.30	70.00	114	0.346025
4.29	43.00	966	
4.29	61.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

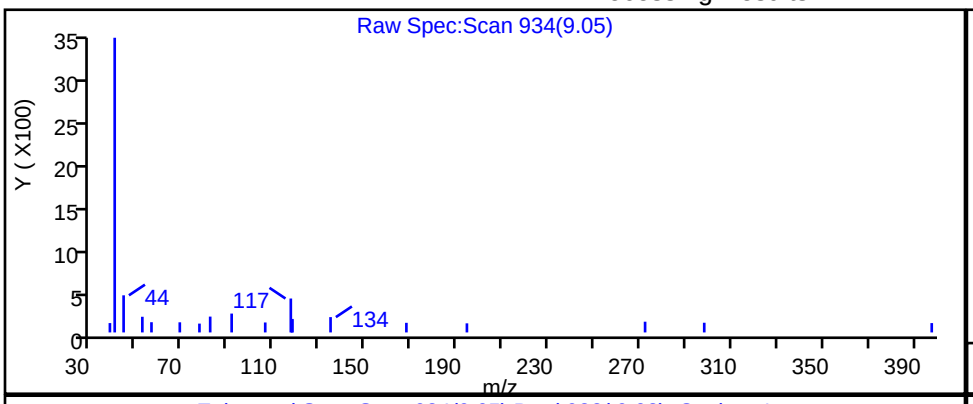
User Disabled Compound Report

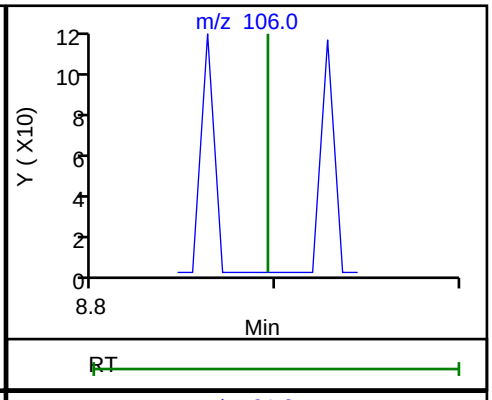
TestAmerica Edison

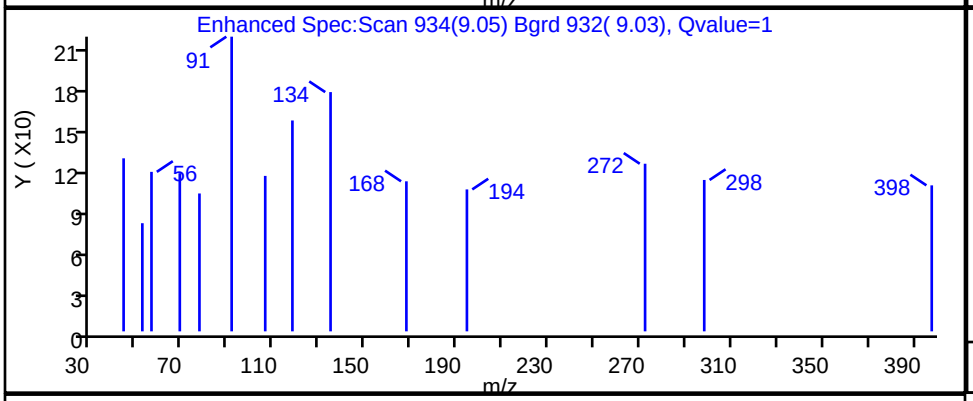
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

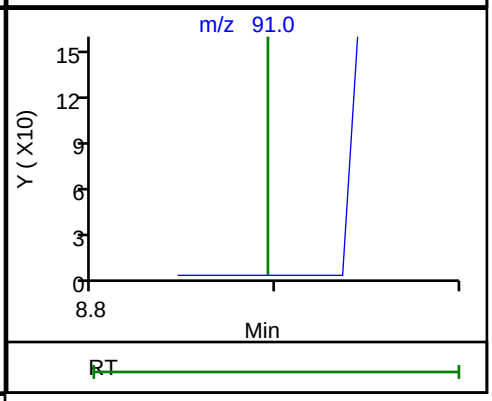
91 Ethylbenzene, CAS: 100-41-4

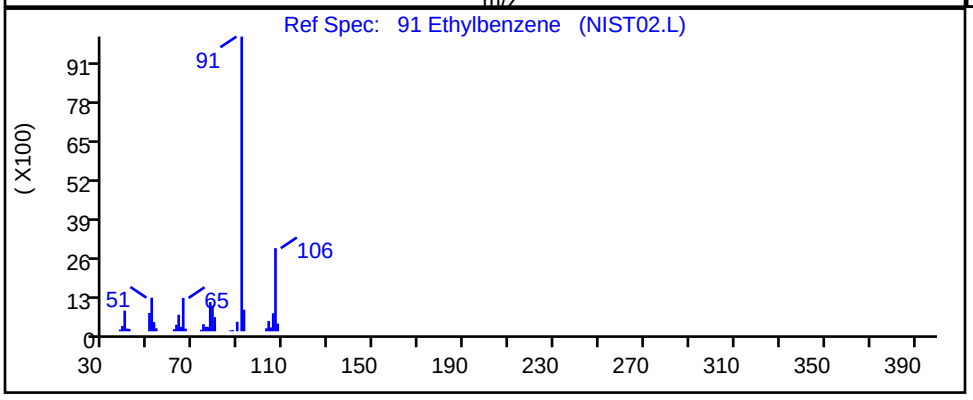
Processing Results











RT	Mass	Response	Amount
9.05	106.00	57	0.009880
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

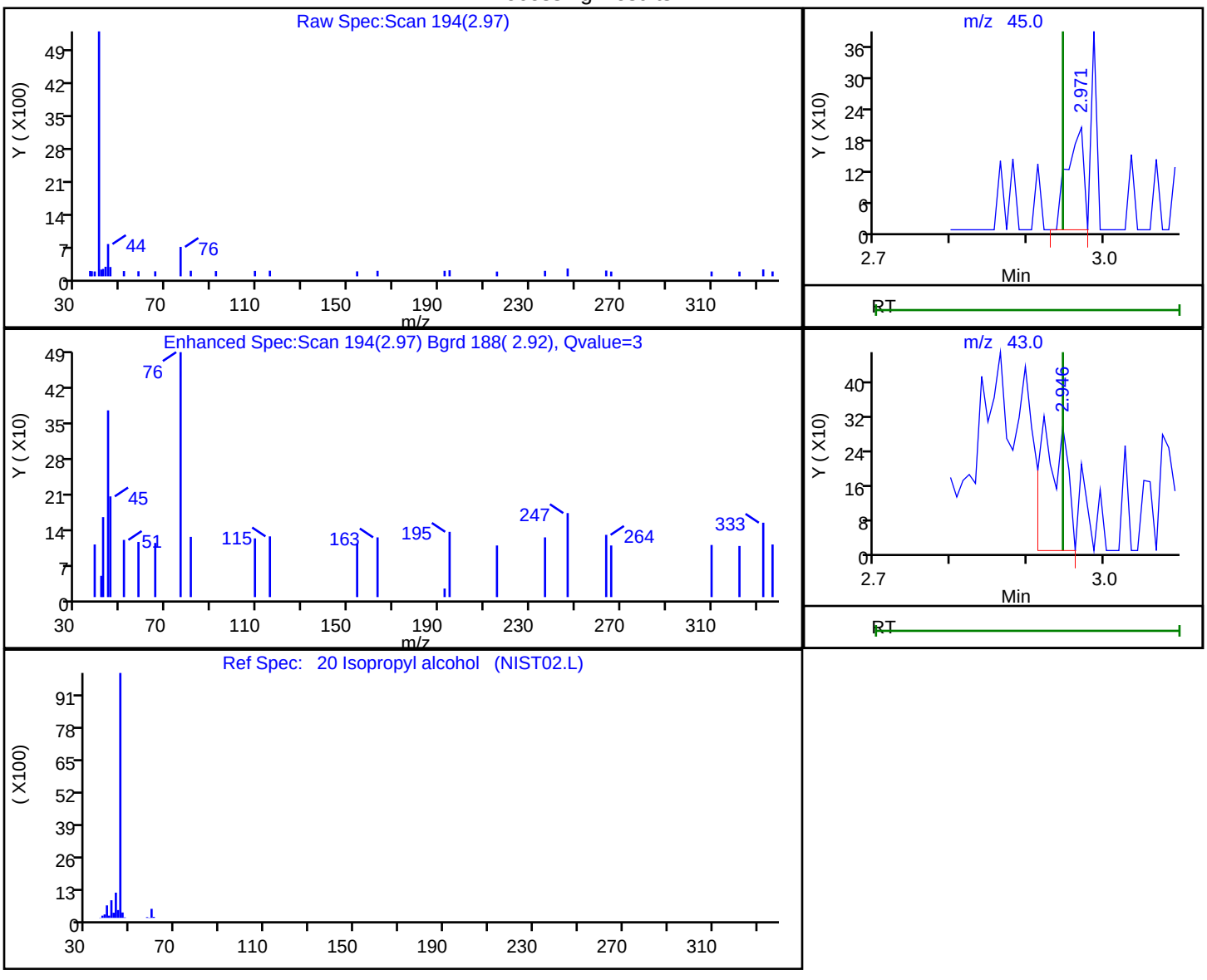
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
2.97	45.00	296	2.726594
2.95	43.00	658	

Reviewer: delpolitov, 08-Jul-2018 17:28:02

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

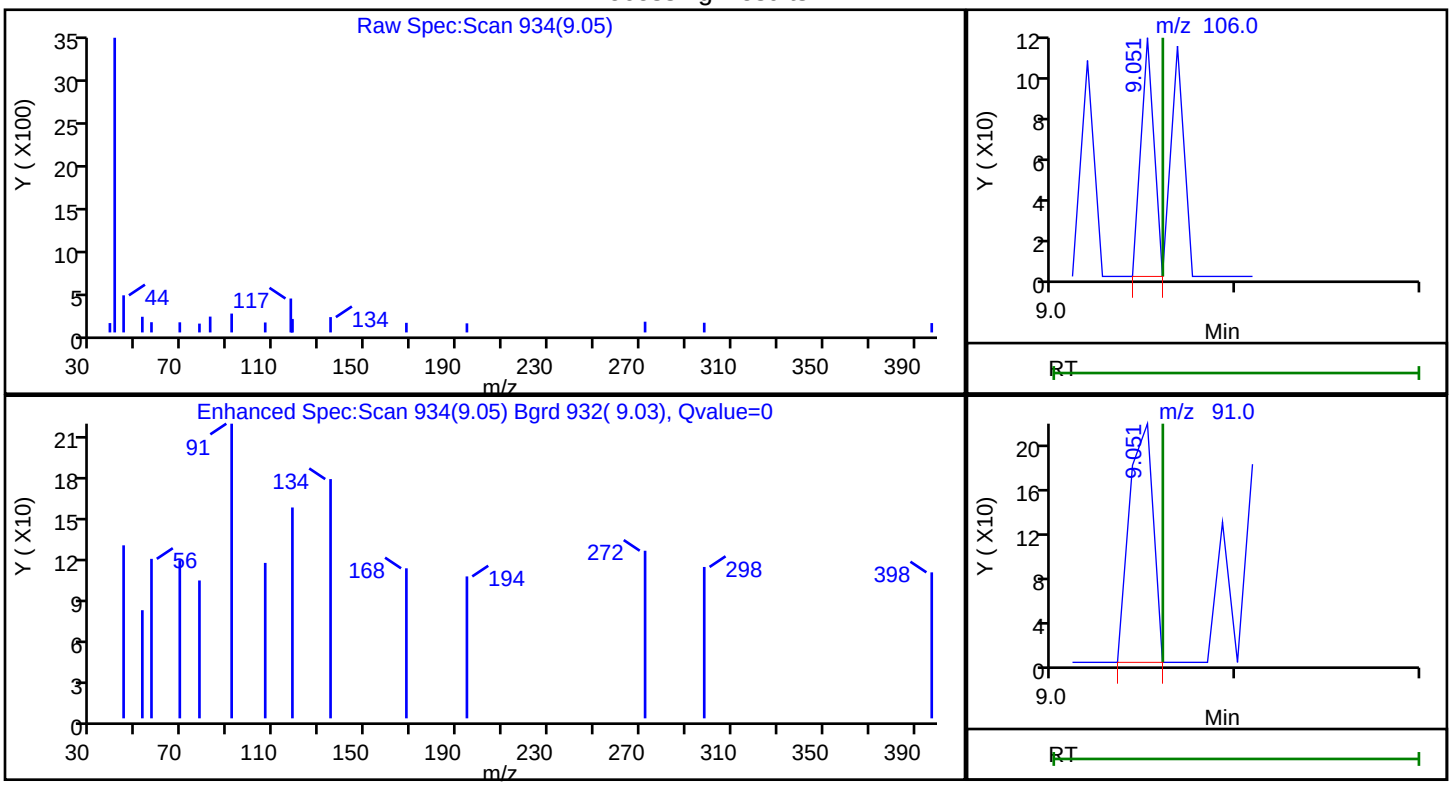
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

93 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
9.05	106.00	57	0.008293
9.05	91.00	196	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

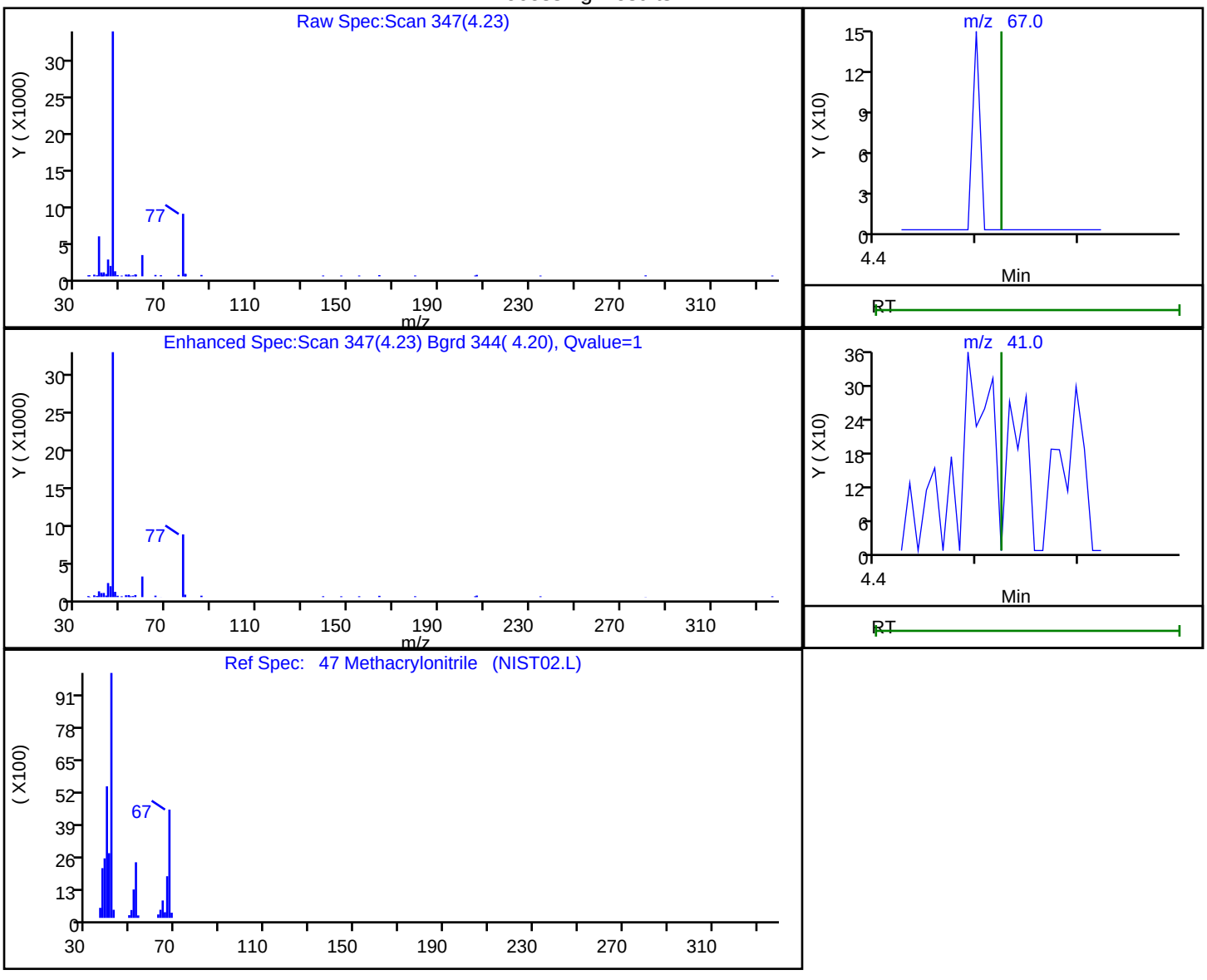
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

47 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
4.23	67.00	74	0.053985
4.23	41.00	1950	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

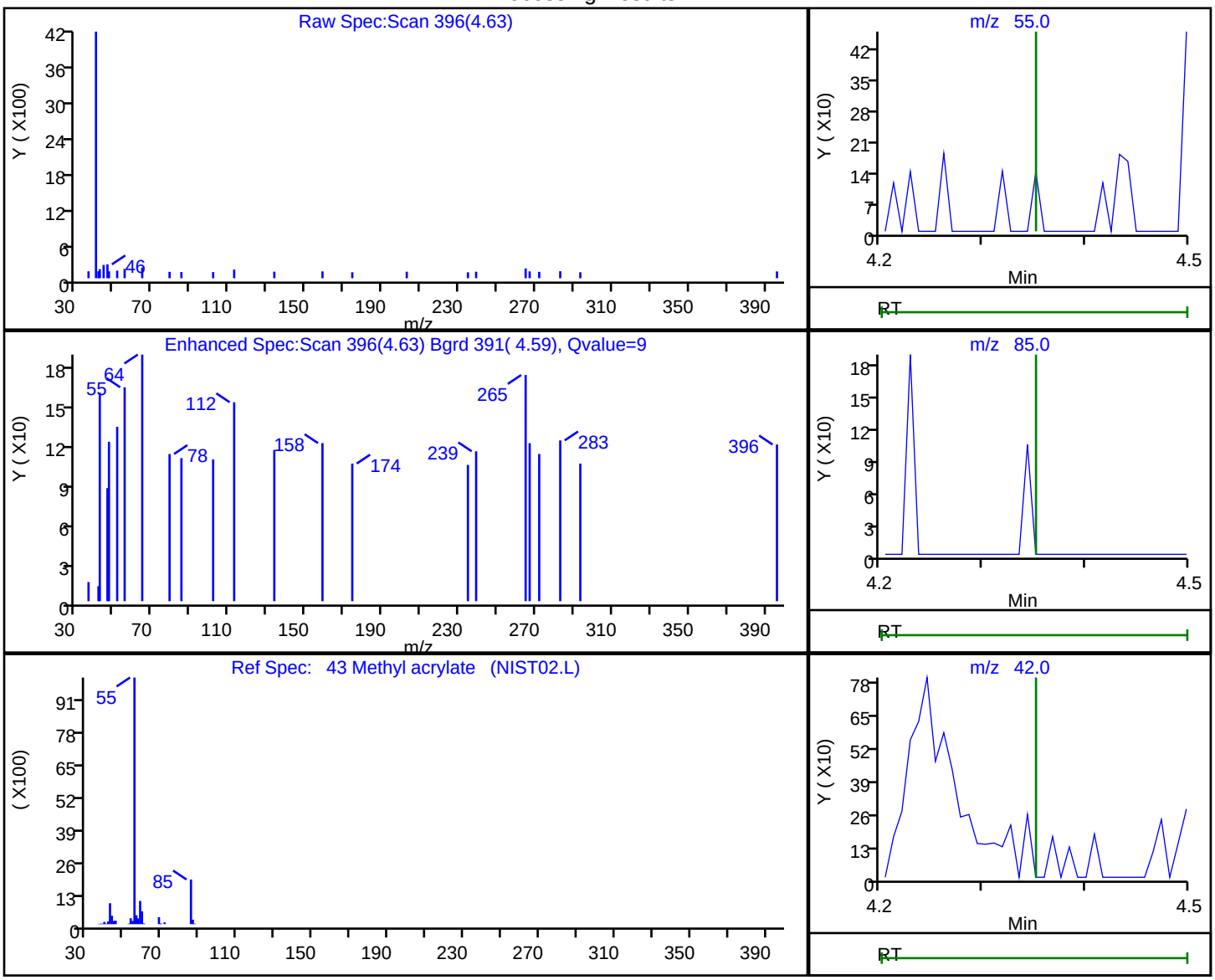
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
4.63	55.00	193	0.079242
4.61	85.00	105	
4.65	42.00	309	

Reviewer: delpolitov, 08-Jul-2018 17:28:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

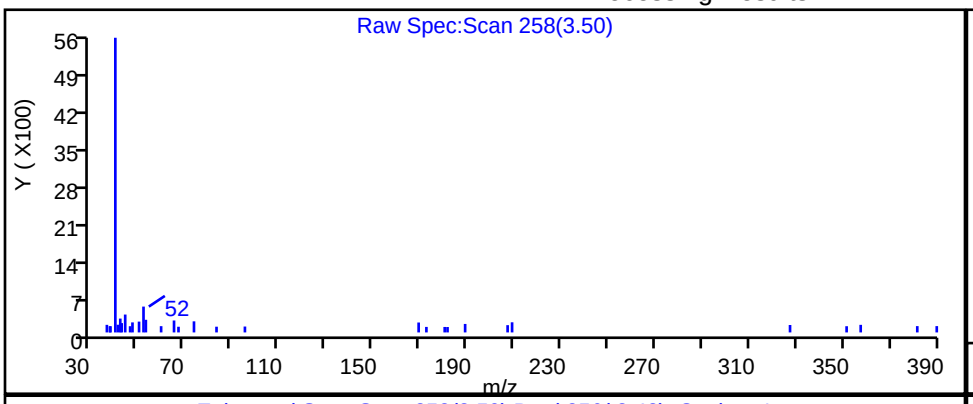
User Disabled Compound Report

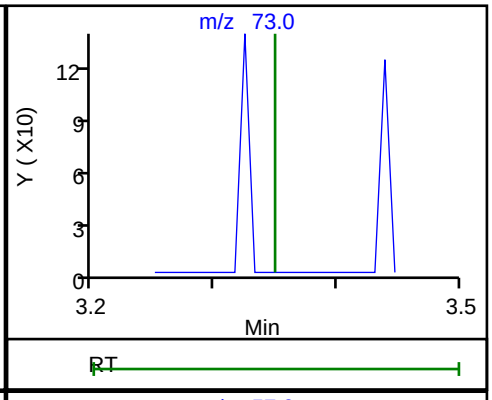
TestAmerica Edison

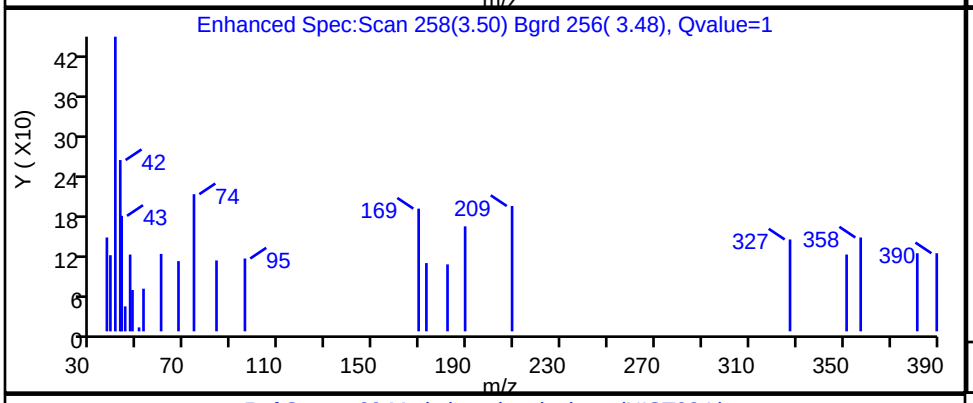
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D				
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

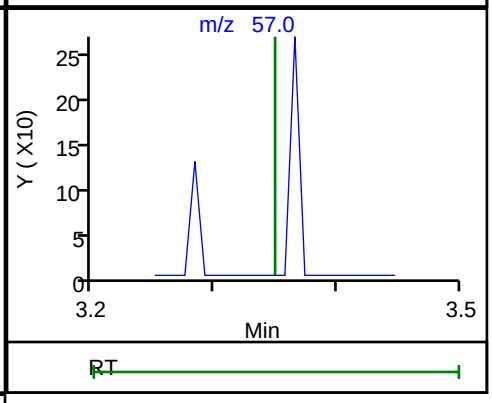
29 Methyl tert-butyl ether, CAS: 1634-04-4

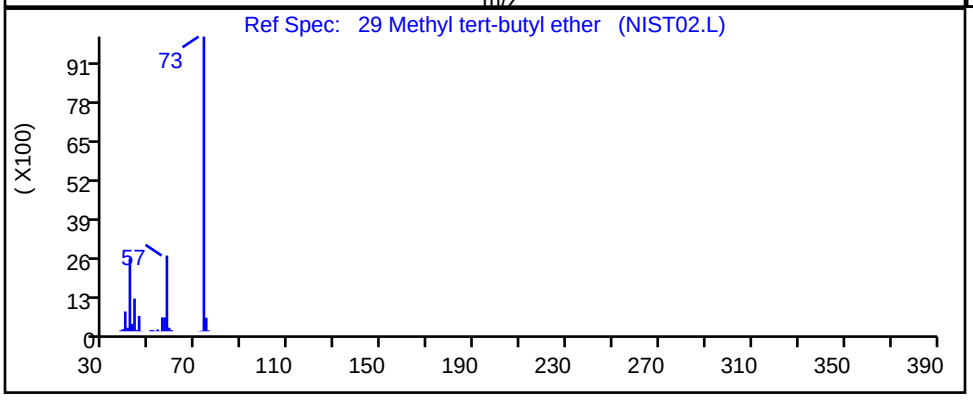
Processing Results











RT	Mass	Response	Amount
3.50	73.00	175	0.015479
3.35	57.00	0	

Reviewer: delpolitov, 08-Jul-2018 17:28:03

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

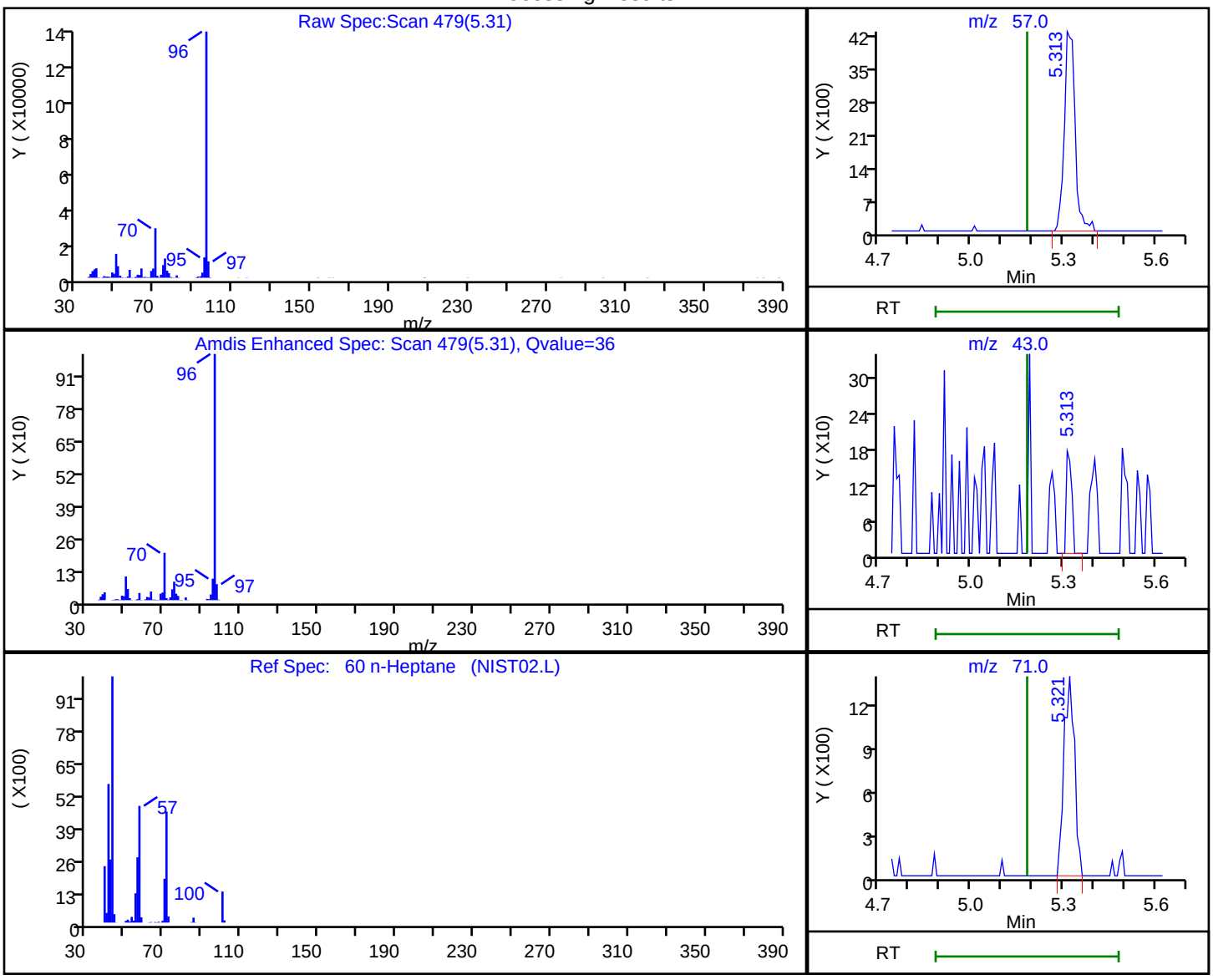
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
5.31	57.00	10516	3.554515
5.31	43.00	212	
5.32	71.00	3240	

Reviewer: delpolitov, 08-Jul-2018 17:41:57
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

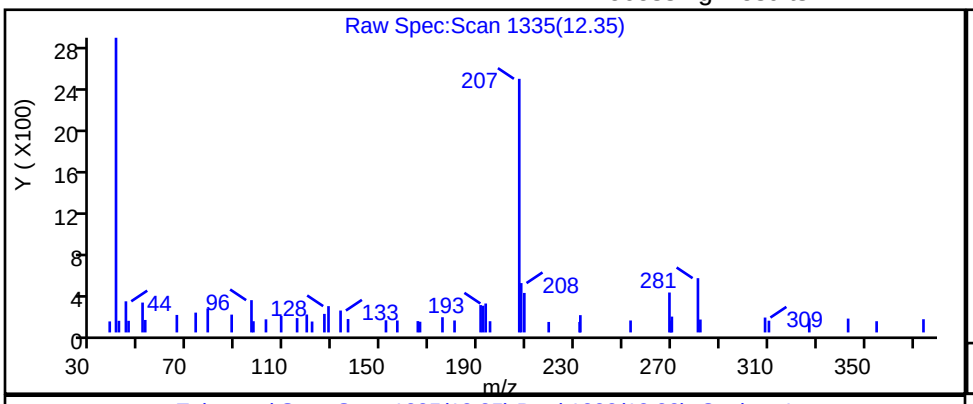
User Disabled Compound Report

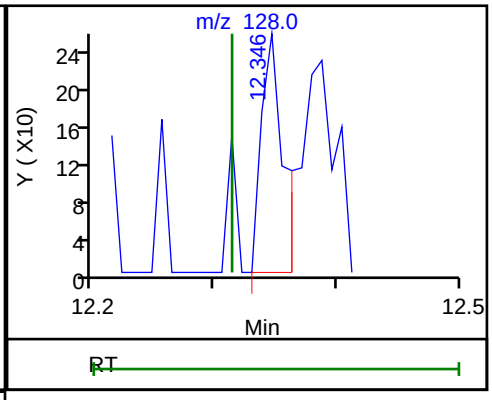
TestAmerica Edison

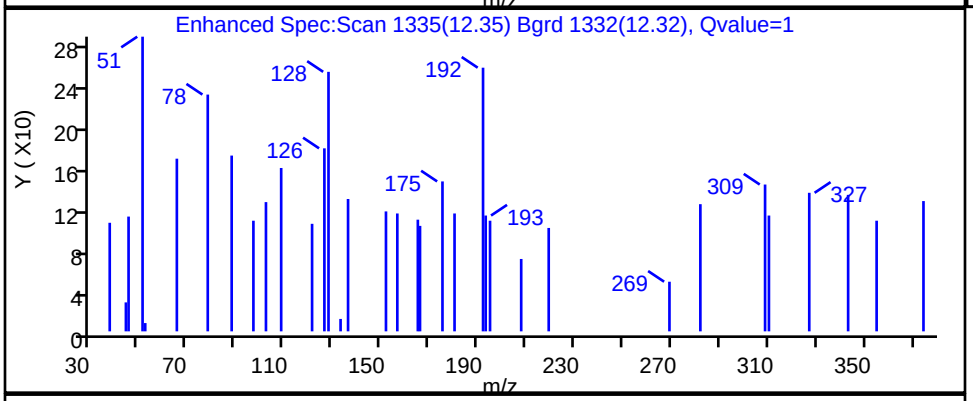
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

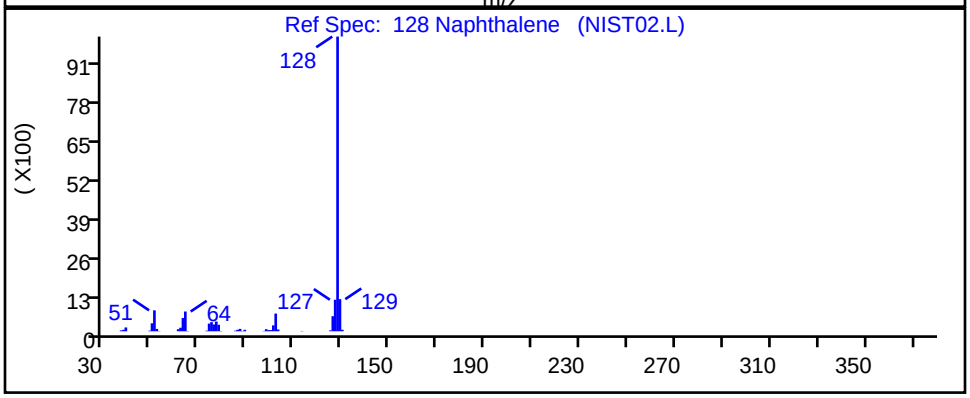
128 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
12.35	128.00	315	0.026266

Reviewer: delpolitov, 08-Jul-2018 17:42:22

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

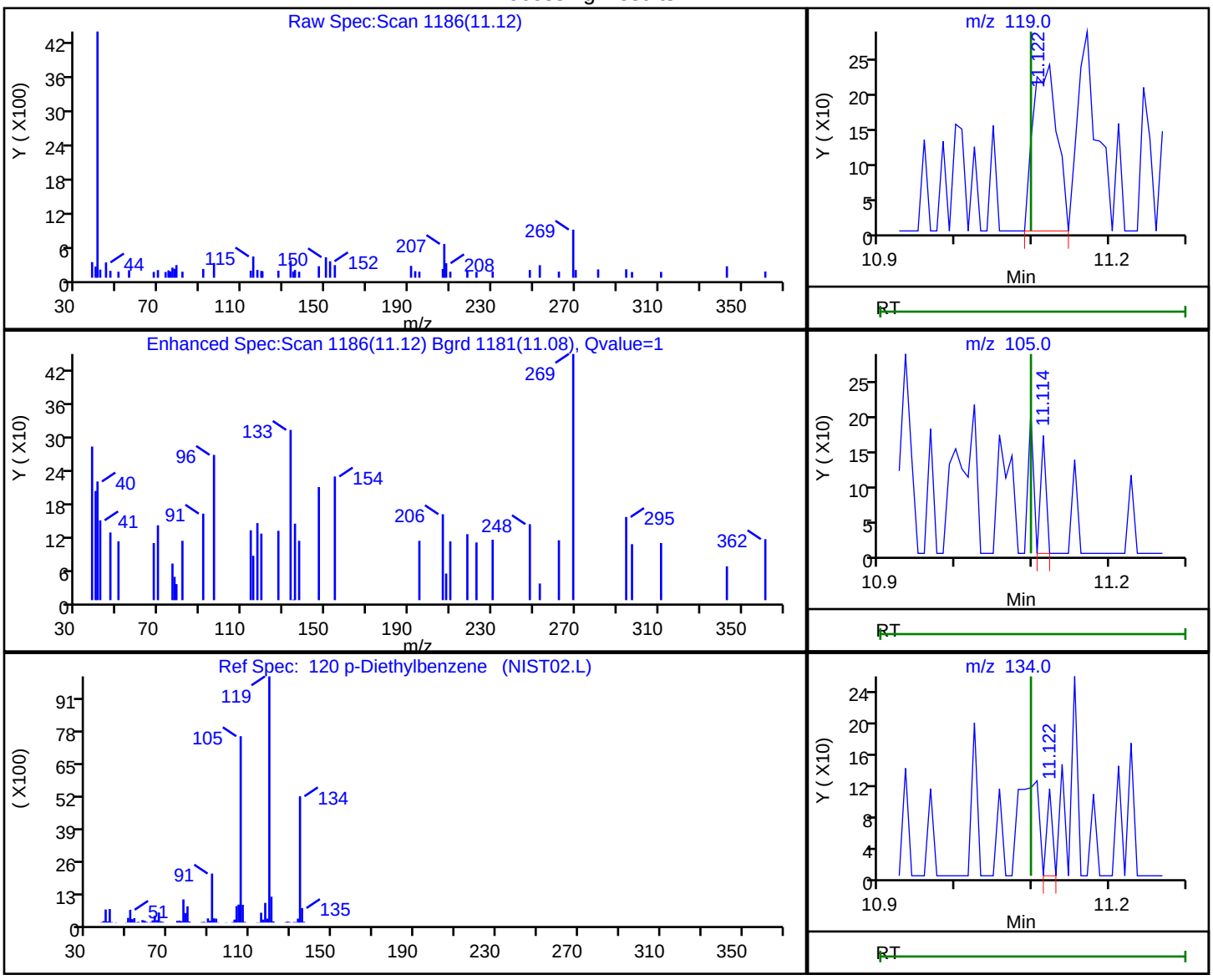
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
11.12	119.00	510	0.056918
11.11	105.00	84	
11.12	134.00	55	

Reviewer: delpolitov, 08-Jul-2018 17:42:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

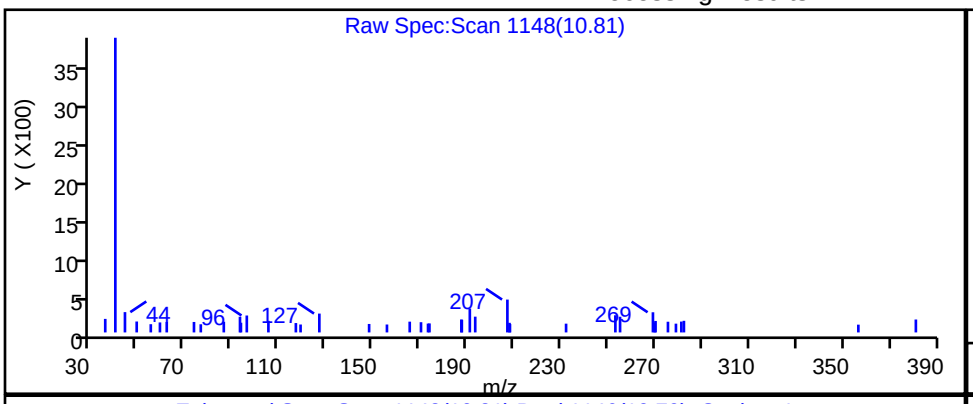
User Disabled Compound Report

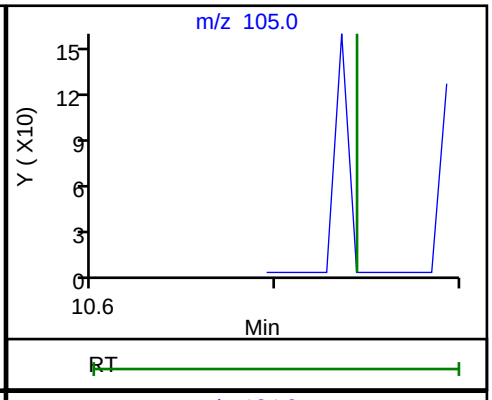
TestAmerica Edison

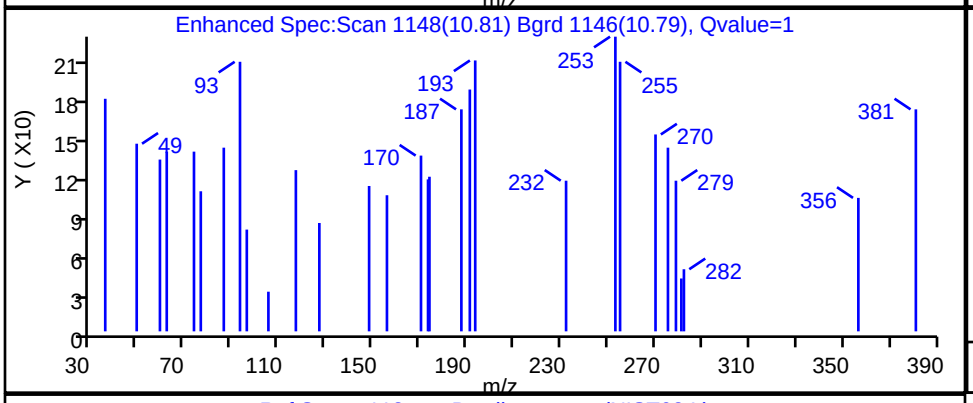
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

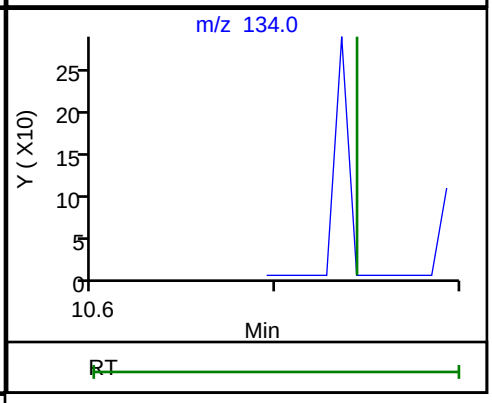
113 sec-Butylbenzene, CAS: 135-98-8

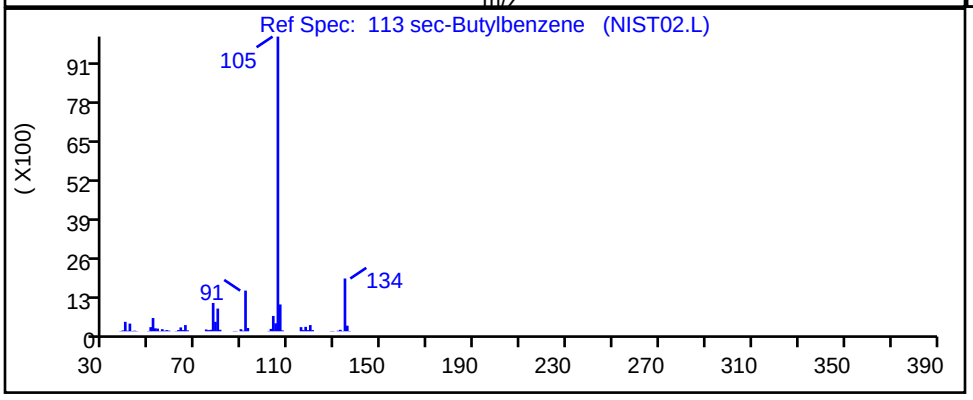
Processing Results











RT	Mass	Response	Amount
10.81	105.00	74	0.004295
10.82	134.00	89	

Reviewer: delpolitov, 08-Jul-2018 17:42:19

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

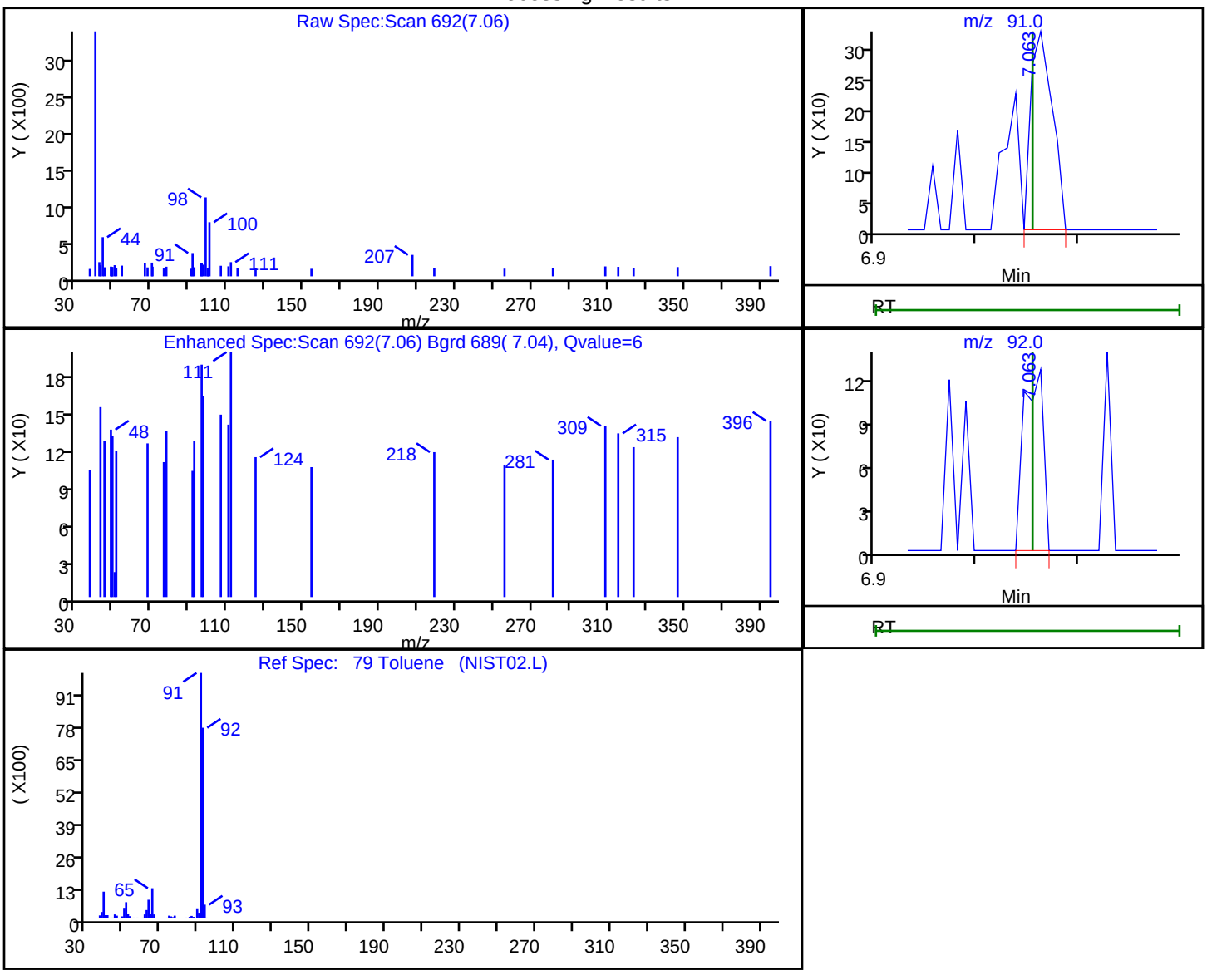
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

79 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
7.06	91.00	477	0.030064
7.06	92.00	167	

Reviewer: delpolitov, 08-Jul-2018 17:41:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

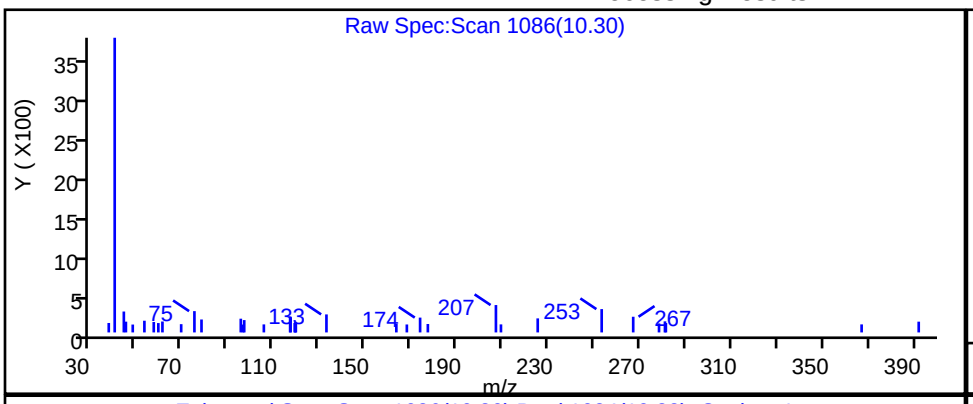
User Disabled Compound Report

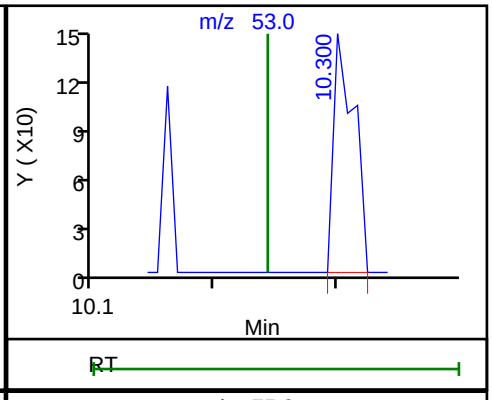
TestAmerica Edison

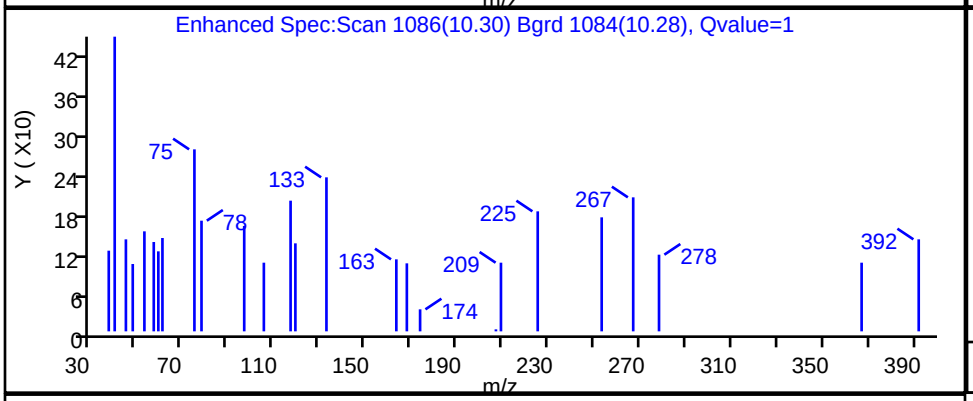
Data File:	\\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D		
Injection Date:	08-Jul-2018 08:14:30	Instrument ID:	CVOAMS6
Lims ID:	STD7		
Client ID:			
Operator ID:		ALS Bottle#:	2 Worklist Smp#: 3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

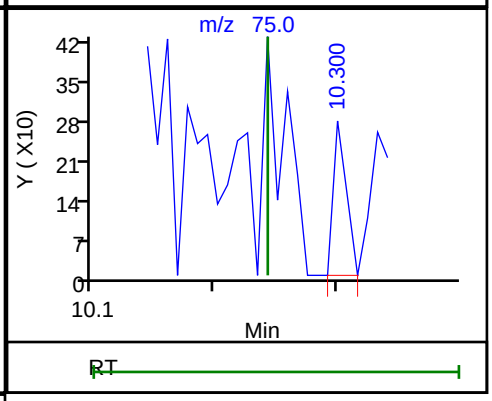
105 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

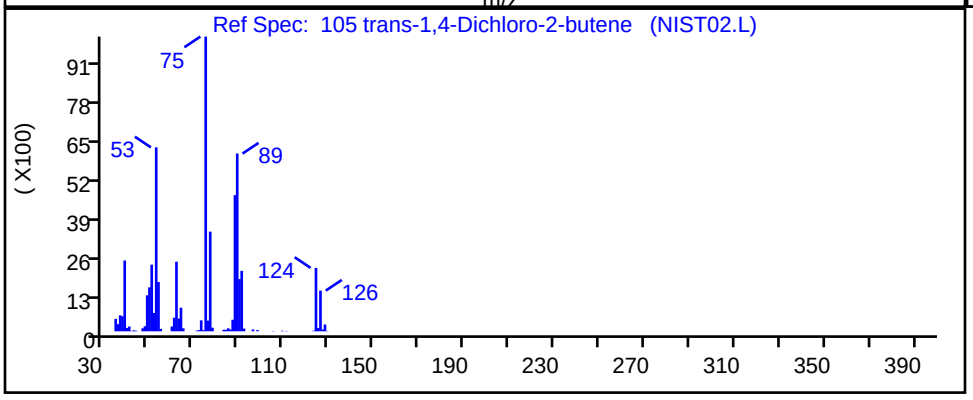
Processing Results











RT	Mass	Response	Amount
10.30	53.00	175	0.205958
10.30	75.00	202	

Reviewer: delpolitov, 08-Jul-2018 17:42:06

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

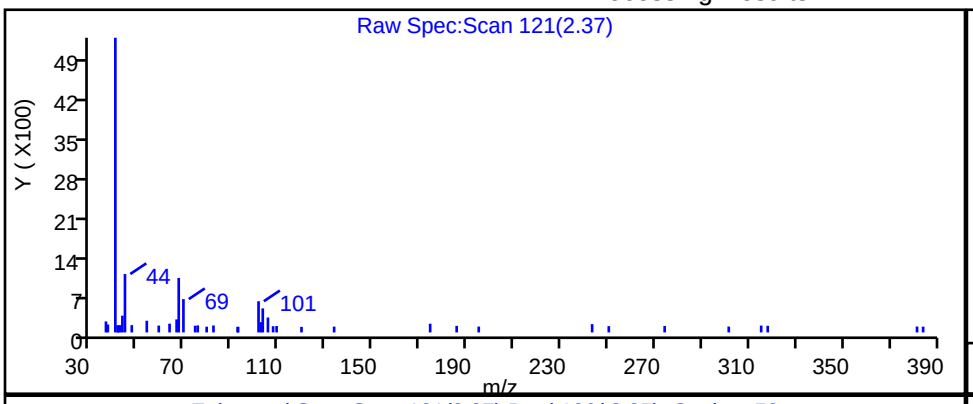
User Disabled Compound Report

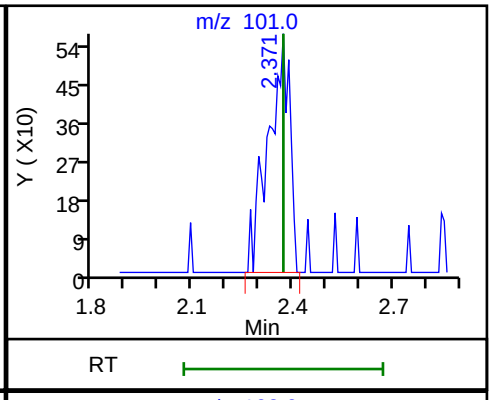
TestAmerica Edison

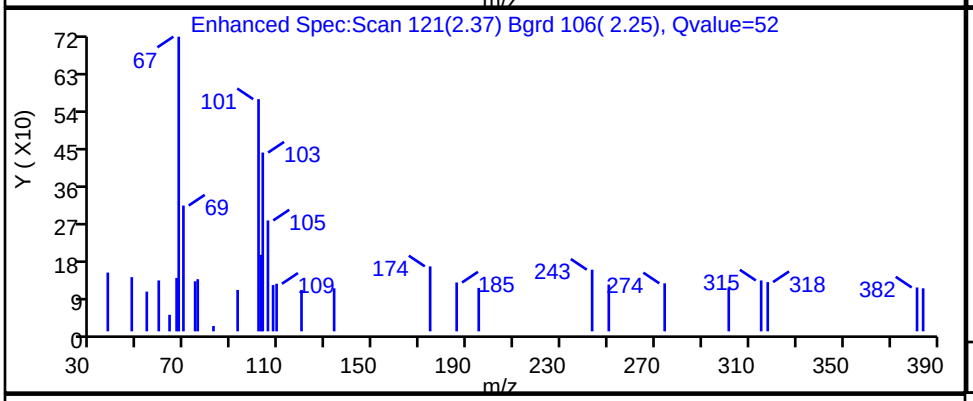
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

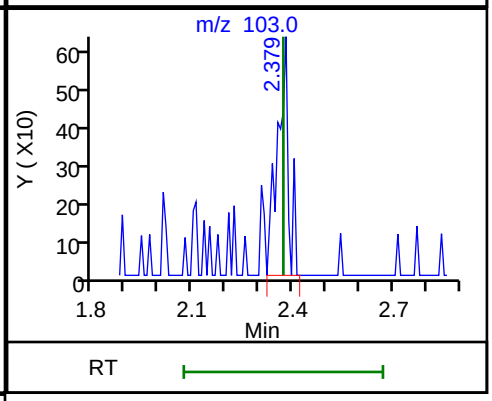
9 Trichlorofluoromethane, CAS: 75-69-4

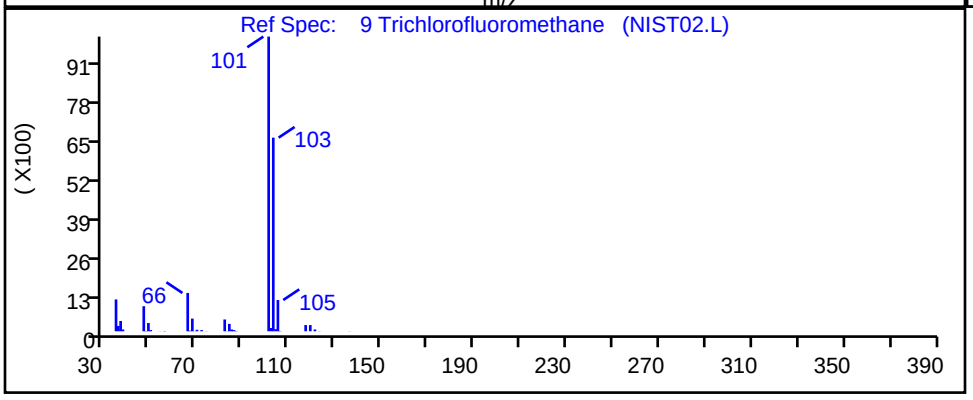
Processing Results











RT	Mass	Response	Amount
2.37	101.00	2498	0.351113
2.38	103.00	1436	

Reviewer: delpolitov, 08-Jul-2018 17:28:02
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

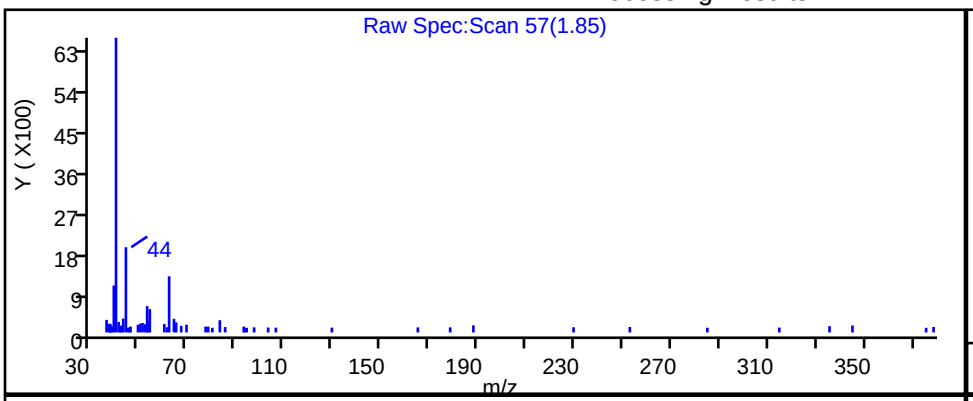
User Disabled Compound Report

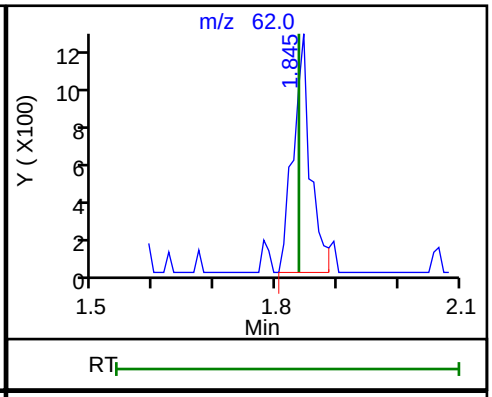
TestAmerica Edison

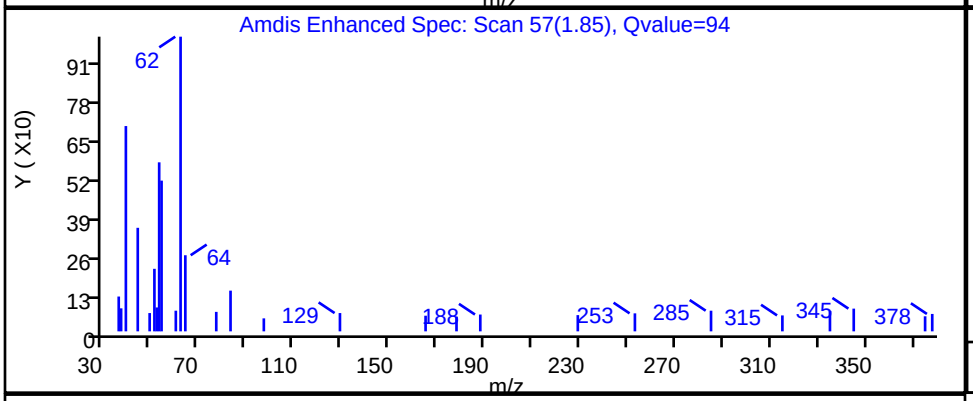
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67408.D
Injection Date: 08-Jul-2018 08:14:30 Instrument ID: CVOAMS6
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

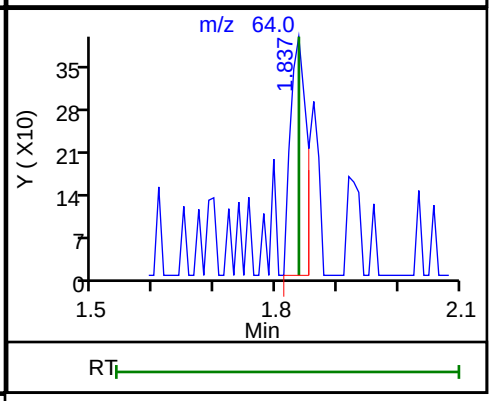
4 Vinyl chloride, CAS: 75-01-4

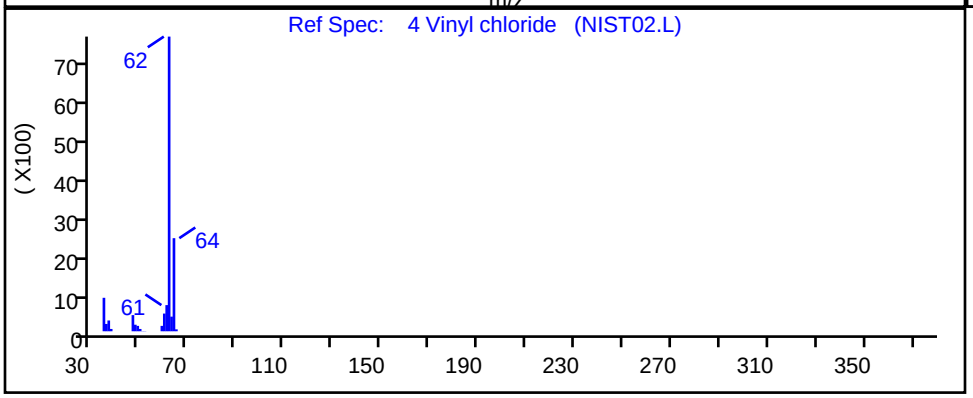
Processing Results











RT	Mass	Response	Amount
1.85	62.00	2428	0.322542
1.84	64.00	714	

Reviewer: delpolitov, 08-Jul-2018 17:28:01
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 08-Jul-2018 08:37:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0075068-004
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:34 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:16:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	45	2101	1.00	0.7611	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	66	6206	1.00	0.9311	
3 Chloromethane	50	1.746	1.747	-0.001	98	9180	1.00	1.13	
5 Butadiene	54	1.837	1.837	0.000	90	7159	1.00	0.9680	
4 Vinyl chloride	62	1.837	1.837	0.000	95	8381	1.00	1.03	
6 Bromomethane	94	2.116	2.116	0.000	95	6934	1.00	1.23	
7 Chloroethane	64	2.174	2.182	-0.008	95	5599	1.00	1.16	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	96	10001	1.00	0.9747	
10 Pentane	72	2.355	2.363	-0.008	96	1110	2.00	1.51	
9 Trichlorofluoromethane	101	2.363	2.371	-0.008	67	7738	1.00	1.03	
11 Ethanol	46	2.593	2.544	0.049	21	457	40.0	49.5	M
12 Ethyl ether	59	2.552	2.552	0.000	73	3428	1.00	1.02	
13 2-Methyl-1,3-butadiene	53	2.576	2.568	0.008	91	4319	1.00	1.10	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	72	4331	1.00	1.08	a
15 Acrolein	56	2.733	2.724	0.009	29	661	4.00	2.93	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	67	4820	1.00	1.03	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	95	4731	1.00	1.09	
18 Acetone	43	2.864	2.848	0.016	60	3274	5.00	4.20	M
19 Iodomethane	142	2.913	2.913	0.000	96	8478	1.00	1.08	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	25	1489	10.0	11.0	a
21 Carbon disulfide	76	2.946	2.955	-0.009	100	20504	1.00	1.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	95	8819	1.00	1.06	
24 Methyl acetate	43	3.078	3.078	0.000	52	4522	2.00	1.80	a
23 Cyclopentene	67	3.086	3.086	0.000	84	10911	1.00	0.99	
25 Acetonitrile	41	3.209	3.144	0.065	20	3213	10.0	8.03	M
* 26 TBA-d9 (IS)	65	3.184	3.193	-0.009	0	116109	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	42	5762	1.00	1.08	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	11	2288	10.0	9.37	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	93	13690	1.00	1.07	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	92	5085	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.456	3.448	0.008	97	11424	10.0	7.98	
32 Hexane	43	3.521	3.522	-0.001	89	4326	1.00	1.11	
33 Isopropyl ether	45	3.727	3.727	0.000	96	14507	1.00	0.9884	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	97	8738	1.00	1.03	
35 Vinyl acetate	86	3.793	3.776	0.016	98	1360	2.00	1.65	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	77	4717	1.00	1.12	
37 Tert-butyl ethyl ether	59	4.023	4.039	-0.016	95	13740	1.00	1.00	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	136598	250.0	250.0	
39 2,2-Dichloropropane	97	4.277	4.269	0.008	50	2112	1.00	1.18	a
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	93	5362	1.00	0.99	
42 Ethyl acetate	70	4.310	4.286	0.024	47	900	2.00	2.49	
41 2-Butanone (MEK)	72	4.310	4.286	0.024	81	1917	5.00	5.30	
43 Methyl acrylate	55	4.351	4.351	0.000	47	2625	1.00	0.9661	Ma
44 Propionitrile	54	4.458	4.425	0.033	52	3081	10.0	7.13	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	2454	1.00	0.9868	
46 Tetrahydrofuran	72	4.516	4.508	0.008	40	1292	2.00	2.01	M
47 Methacrylonitrile	67	4.532	4.524	0.008	88	14869	10.0	9.55	
48 Chloroform	83	4.548	4.549	-0.001	73	7472	1.00	0.9718	
49 Cyclohexane	84	4.672	4.688	-0.016	59	6752	1.00	0.9411	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	36	8085	1.00	1.18	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	95672	50.0	51.2	
52 Carbon tetrachloride	117	4.820	4.812	0.008	93	5667	1.00	1.02	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	93	6011	1.00	0.99	
54 Isobutyl alcohol	43	5.000	4.992	0.008	34	4342	25.0	22.1	
55 Benzene	78	5.033	5.033	0.000	64	18589	1.00	1.05	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	100077	50.0	50.2	
57 Isopropyl acetate	43	5.099	5.083	0.016	84	10563	1.00	0.9620	
58 Tert-amyl methyl ether	73	5.083	5.091	-0.008	83	13557	1.00	0.9269	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	97	6967	1.00	1.26	
60 n-Heptane	57	5.181	5.181	0.000	91	3068	1.00	0.9133	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	374608	50.0	50.0	
62 n-Butanol	56	5.641	5.650	-0.009	4	109	25.0	1.87	Ma
63 Trichloroethene	95	5.674	5.674	0.000	95	5186	1.00	1.12	
65 Ethyl acrylate	55	5.797	5.789	0.008	77	7287	1.00	0.7269	
64 Methylcyclohexane	83	5.797	5.798	-0.001	95	7208	1.00	0.8856	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	90	4632	1.00	0.9684	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	9663	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	86	1058	2.00	2.04	
69 1,4-Dioxane	88	6.093	6.085	0.008	44	953	50.0	51.7	M
70 n-Propyl acetate	43	6.143	6.085	0.058	59	4168	1.00	0.9386	Ma
71 Dibromomethane	93	6.093	6.093	0.000	88	3175	1.00	1.17	
72 Dichlorobromomethane	83	6.241	6.241	0.000	97	6161	1.00	1.06	
73 2-Nitropropane	41	6.578	6.570	0.008	75	2118	2.00	2.55	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	48	1645	1.00	0.7869	
75 Epichlorohydrin	57	6.693	6.685	0.008	93	5069	20.0	18.5	a
76 cis-1,3-Dichloropropene	75	6.742	6.734	0.008	92	6269	1.00	0.9782	
77 4-Methyl-2-pentanone (MIBK	43	6.907	6.899	0.008	94	11173	5.00	4.00	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	347975	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	94	18562	1.00	1.04	
80 trans-1,3-Dichloropropene	75	7.424	7.408	0.016	81	5482	1.00	1.03	
81 Ethyl methacrylate	69	7.449	7.433	0.016	50	3203	1.00	0.7320	
82 1,1,2-Trichloroethane	83	7.613	7.622	-0.009	88	2798	1.00	0.9417	M

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	94	4612	1.00	1.06	
84 1,3-Dichloropropane	76	7.835	7.827	0.008	91	5362	1.00	0.9539	
85 2-Hexanone	43	7.917	7.893	0.024	72	3093	5.00	5.06	
86 n-Butyl acetate	43	8.032	8.008	0.024	34	1864	1.00	0.99	M
87 Chlorodibromomethane	129	8.065	8.065	0.000	96	4025	1.00	1.05	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	96	2979	1.00	0.9192	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	252919	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	97	11664	1.00	1.04	
91 Ethylbenzene	106	8.895	8.895	0.000	97	6771	1.00	1.04	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	91	4385	1.00	1.03	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	7136	1.00	0.9232	
94 n-Butyl acrylate	73	9.536	9.487	0.049	31	1421	1.00	1.02	
95 o-Xylene	106	9.503	9.503	0.000	91	7504	1.00	0.9387	
96 Styrene	104	9.544	9.536	0.008	97	11669	1.00	0.9393	M
97 Amyl acetate (mixed isomer	43	9.750	9.717	0.033	45	2413	1.00	1.03	Ma
98 Bromoform	173	9.750	9.742	0.008	95	2543	1.00	1.03	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	18025	1.00	0.9383	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	105689	50.0	51.8	
101 Bromobenzene	156	10.152	10.144	0.008	96	5396	1.00	1.09	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	94	4570	1.00	0.9765	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	23444	1.00	1.03	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	88	1662	1.00	1.26	
105 trans-1,4-Dichloro-2-buten	53	10.259	10.243	0.016	1	432	1.00	1.01	
106 2-Chlorotoluene	91	10.300	10.292	0.008	97	16430	1.00	1.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	82	17032	1.00	0.9075	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	16210	1.00	0.9800	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	14193	1.00	1.00	
110 Butyl Methacrylate	87	10.440	10.432	0.008	57	3544	1.00	1.03	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	12385	1.00	0.9282	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	98	15797	1.00	0.9387	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	20280	1.00	0.9869	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	97	16216	1.00	0.9341	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	9487	1.00	0.9744	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	94	143687	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	89	9982	1.00	0.99	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	18062	1.00	1.01	
118 Benzyl chloride	91	11.032	11.024	0.008	96	7060	1.00	0.7901	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	92	18019	1.00	1.00	
120 p-Diethylbenzene	119	11.106	11.098	0.008	94	9865	1.00	0.9230	
121 n-Butylbenzene	92	11.122	11.114	0.008	96	9483	1.00	0.9578	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	93	9954	1.00	1.02	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	97	16200	1.00	0.9712	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.656	0.008	40	909	1.00	1.05	
125 1,3,5-Trichlorobenzene	180	11.746	11.738	0.008	95	7826	1.00	1.03	
126 1,2,4-Trichlorobenzene	180	12.149	12.141	0.008	93	6018	1.00	0.8903	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	90	3628	1.00	1.13	
128 Naphthalene	128	12.322	12.314	0.008	97	11939	1.00	0.8346	
129 1,2,3-Trichlorobenzene	180	12.486	12.478	0.008	94	7132	1.00	1.10	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.06	
S 131 Xylenes, Total	100				0		2.00	1.86	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
14DIOXINTER_00086	Amount Added:	30.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:00:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D

Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6 Operator ID:

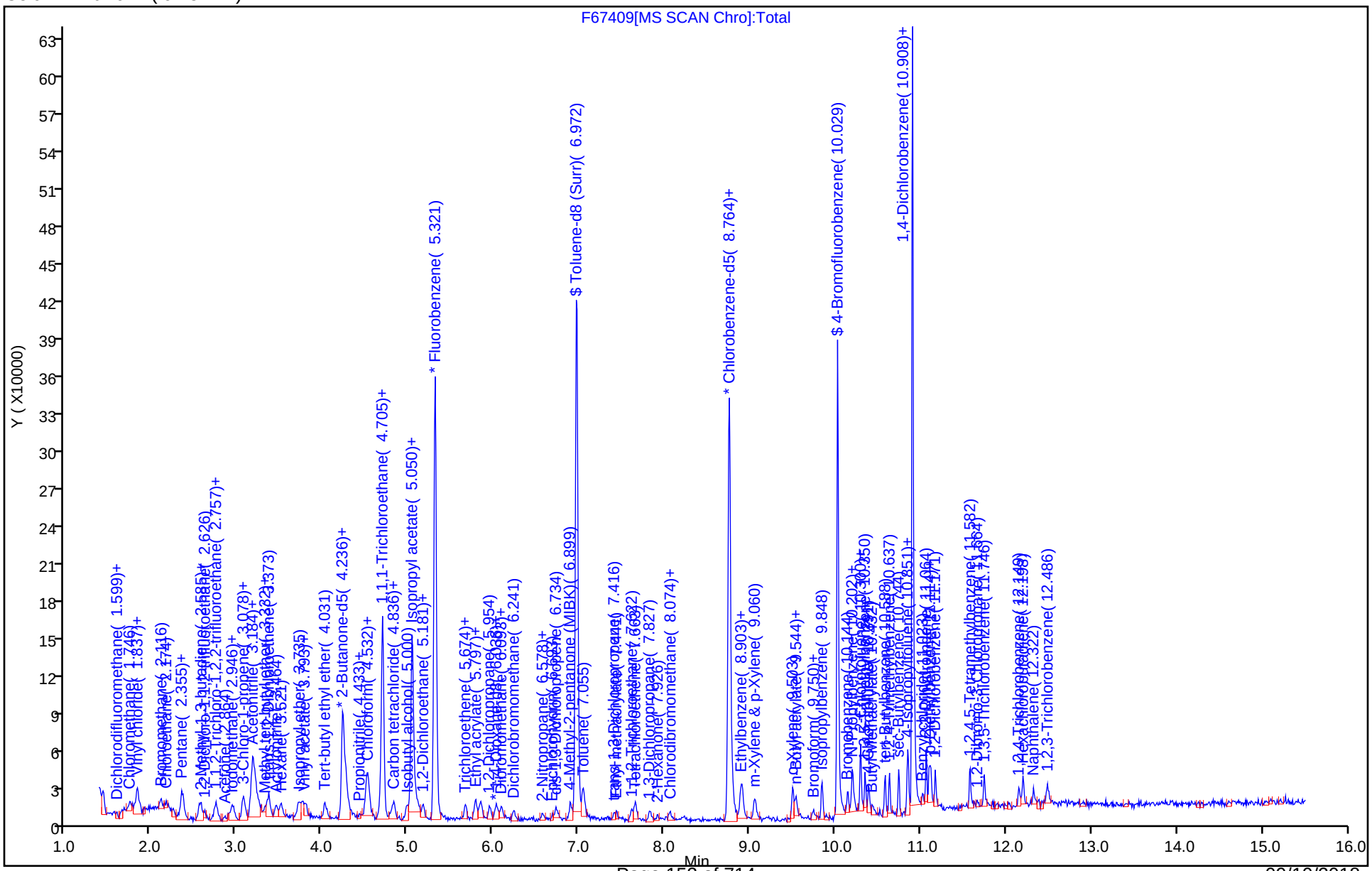
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

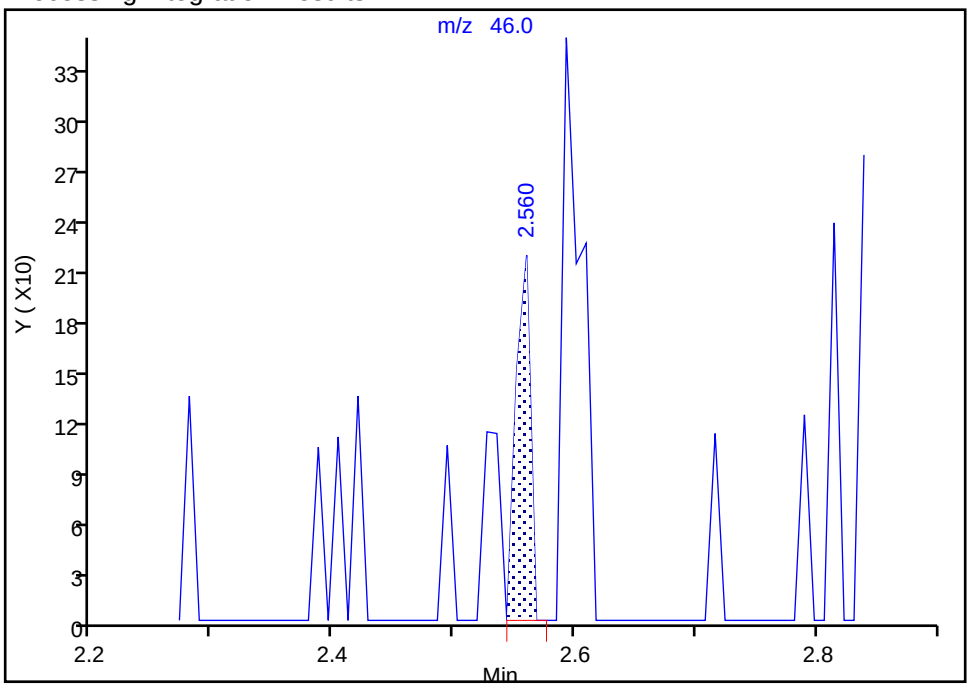
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

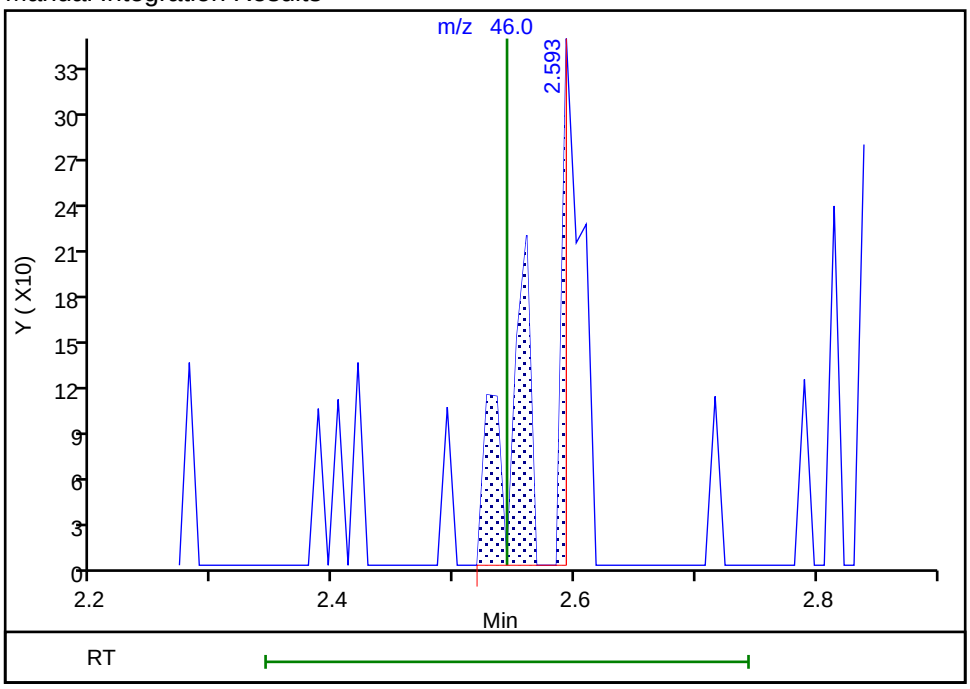
Processing Integration Results

RT: 2.56
Area: 179
Amount: 27.301764
Amount Units: ug/l



Manual Integration Results

RT: 2.59
Area: 457
Amount: 49.495510
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:50:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

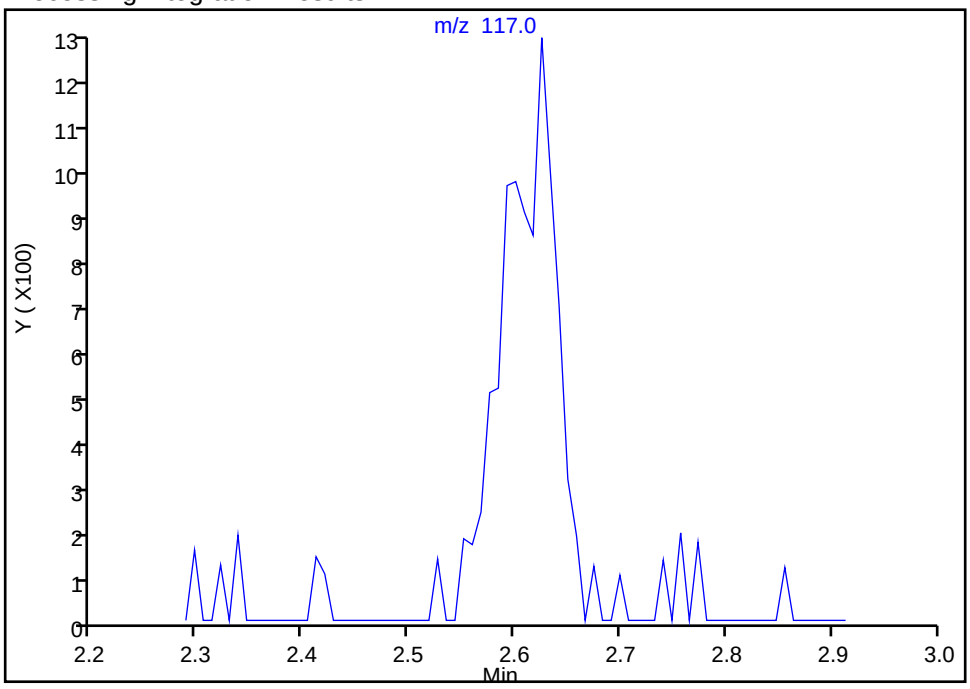
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Signal: 1

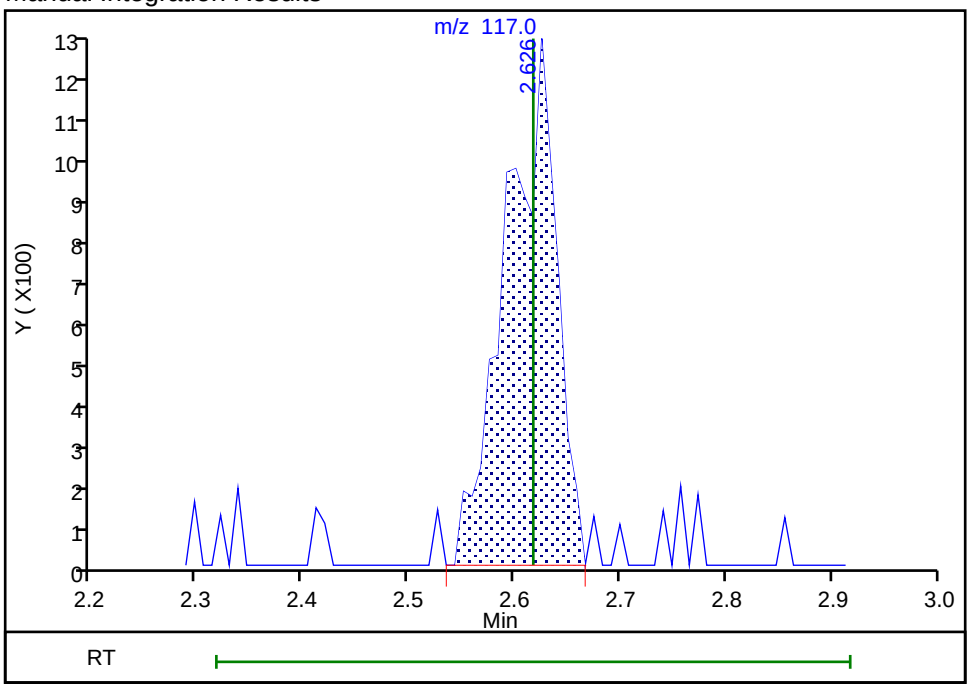
Not Detected
Expected RT: 2.62

Processing Integration Results



Manual Integration Results

RT: 2.63
Area: 4331
Amount: 1.083085
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

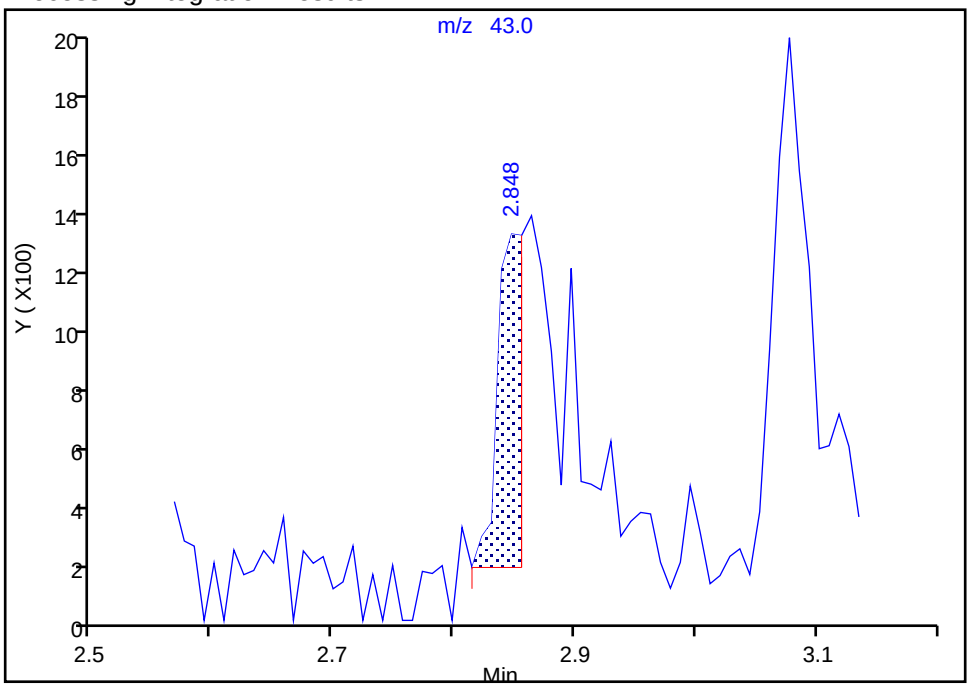
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1

Signal: 1

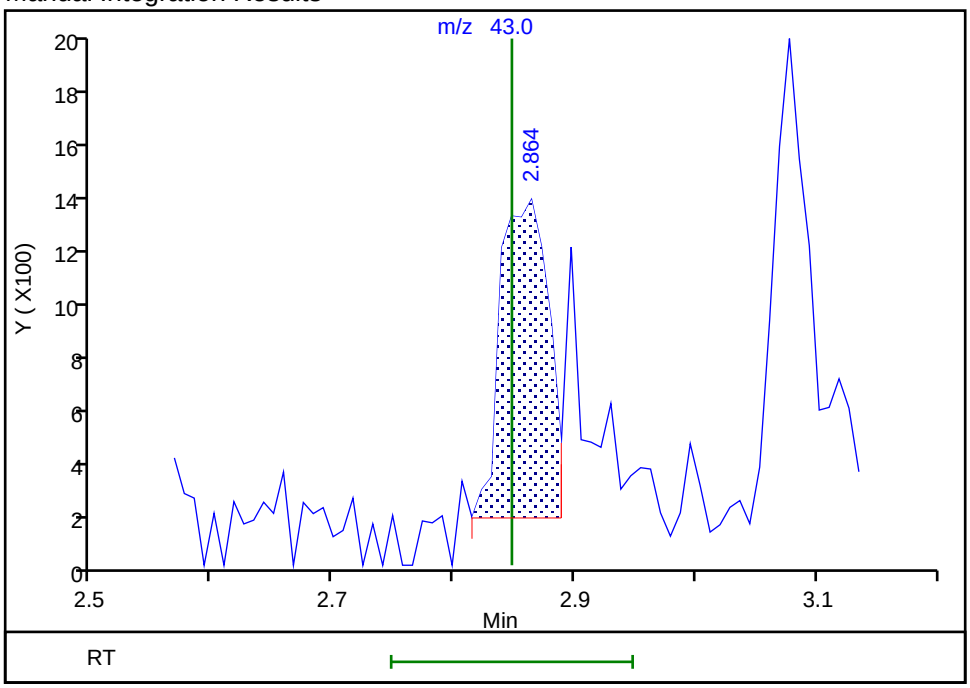
Processing Integration Results

RT: 2.85
Area: 1705
Amount: 2.046142
Amount Units: ug/l



Manual Integration Results

RT: 2.86
Area: 3274
Amount: 4.204923
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

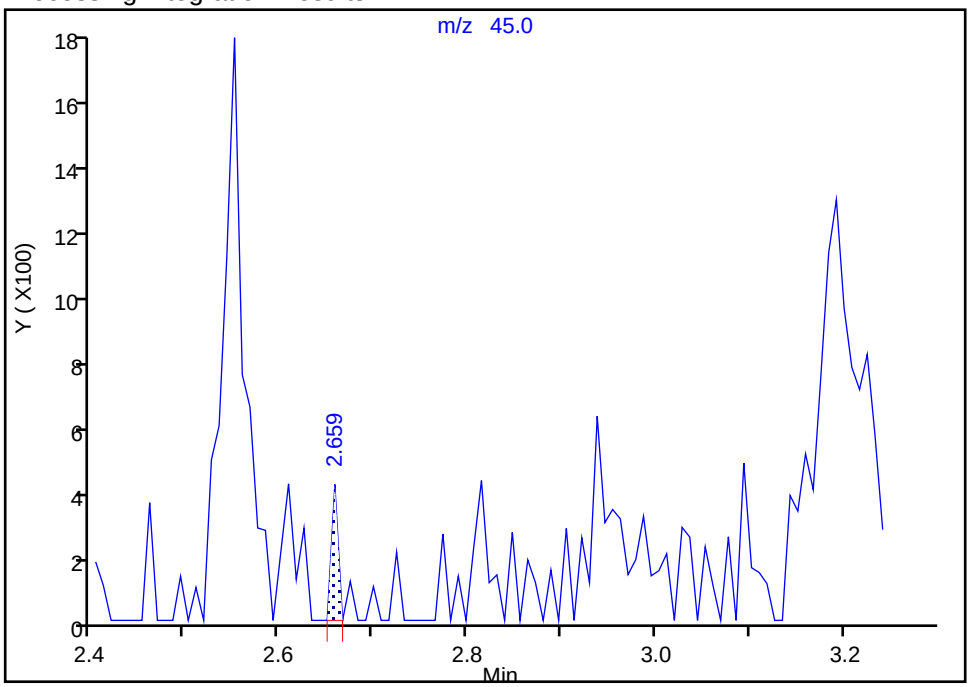
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

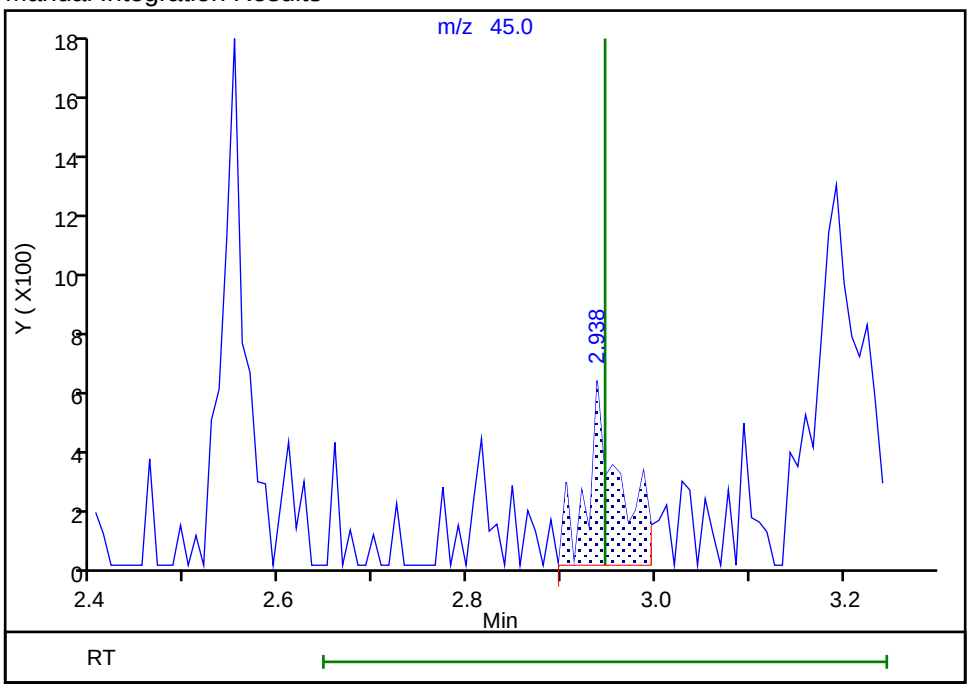
Processing Integration Results

RT: 2.66
Area: 206
Amount: 1.722006
Amount Units: ug/l



Manual Integration Results

RT: 2.94
Area: 1489
Amount: 10.963757
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

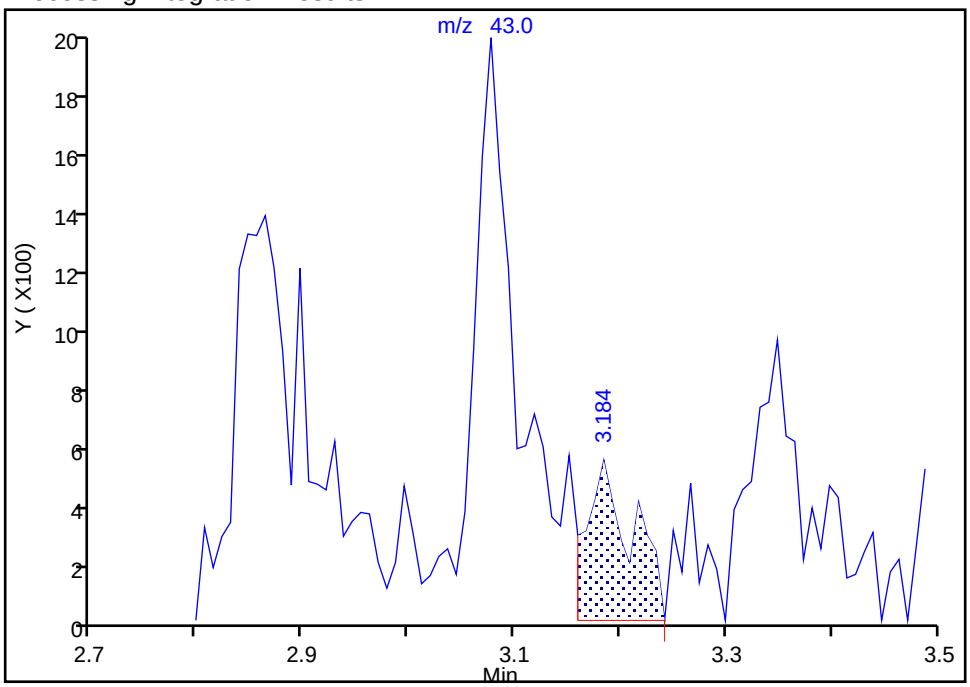
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Signal: 1

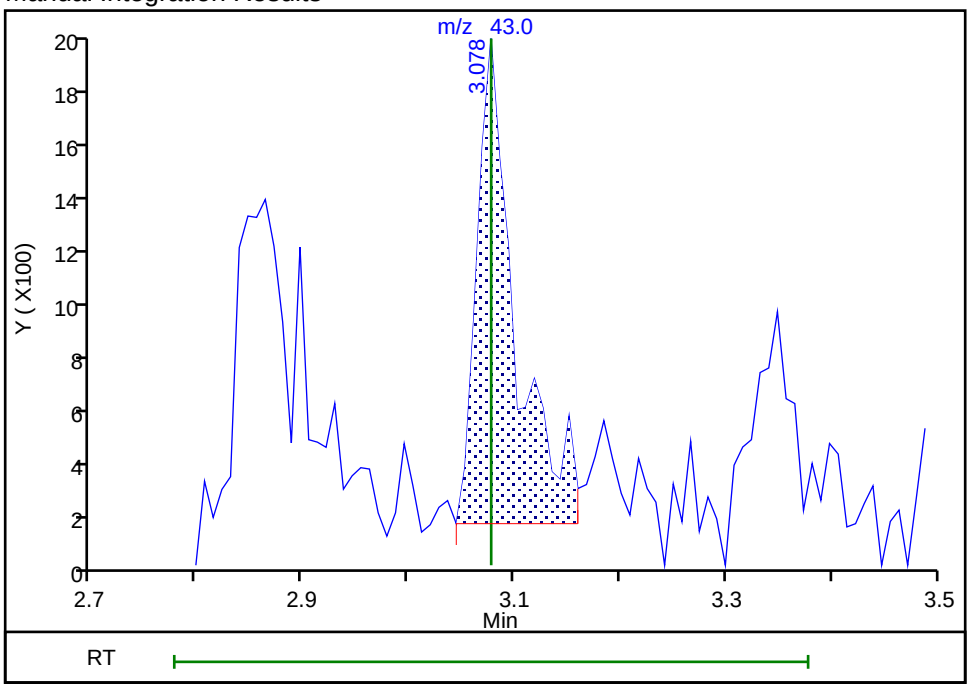
Processing Integration Results

RT: 3.18
Area: 1607
Amount: 0.648934
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 4522
Amount: 1.801377
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:34
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

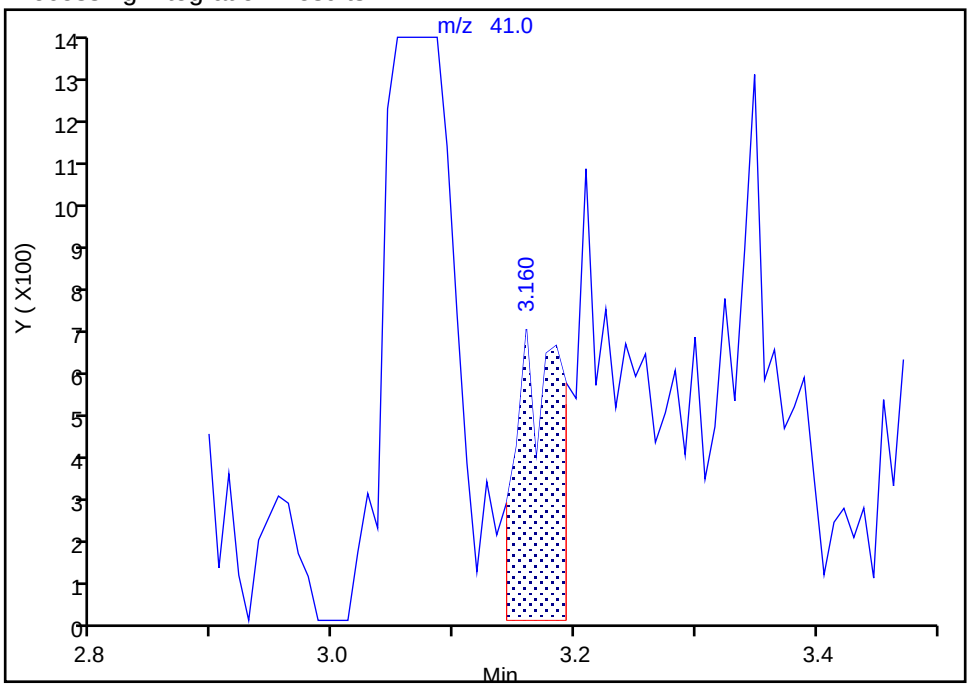
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

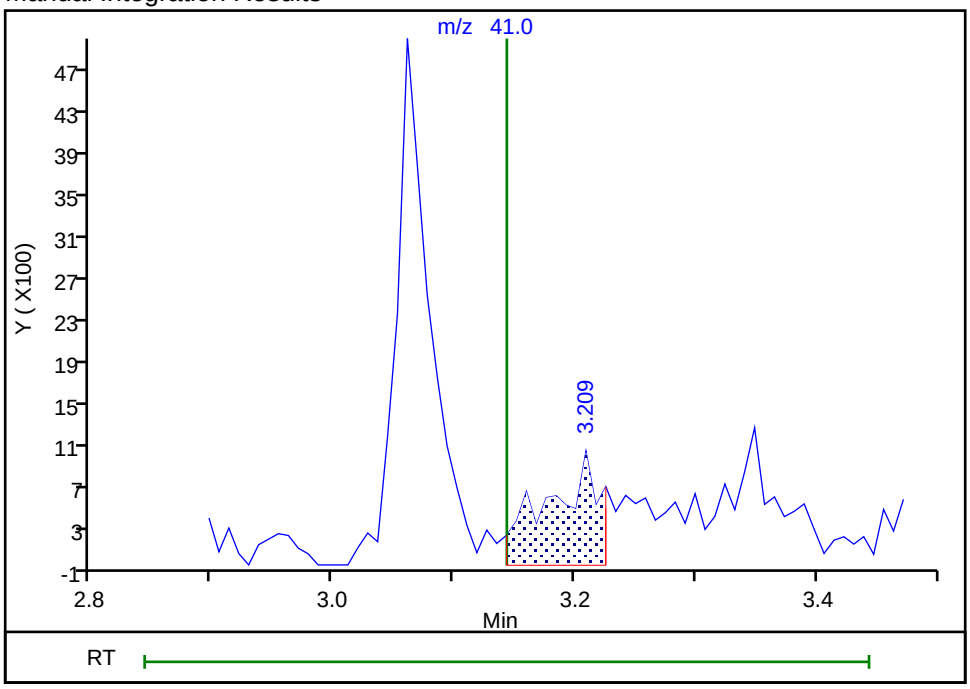
Processing Integration Results

RT: 3.16
Area: 1775
Amount: 2.376885
Amount Units: ug/l



Manual Integration Results

RT: 3.21
Area: 3213
Amount: 8.029178
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:43:59
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

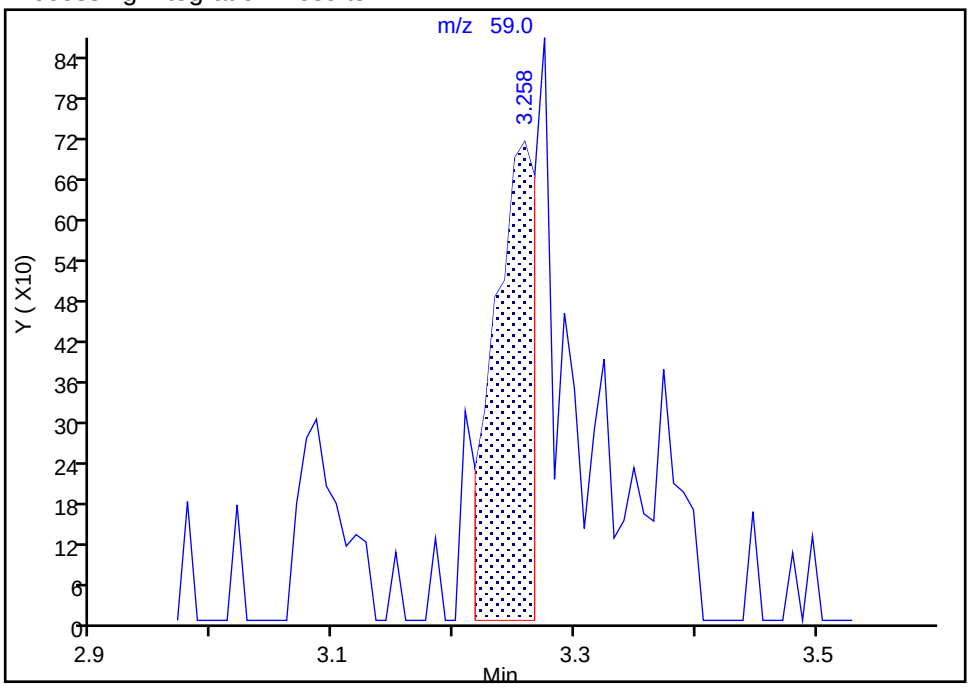
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

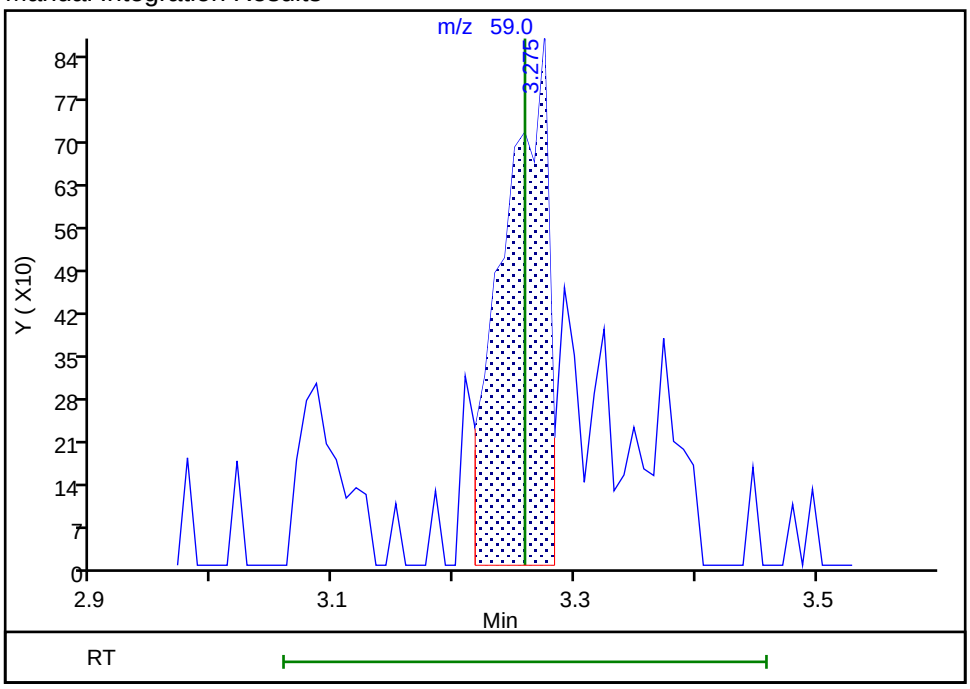
Processing Integration Results

RT: 3.26
Area: 1760
Amount: 7.577499
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 2288
Amount: 9.371030
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

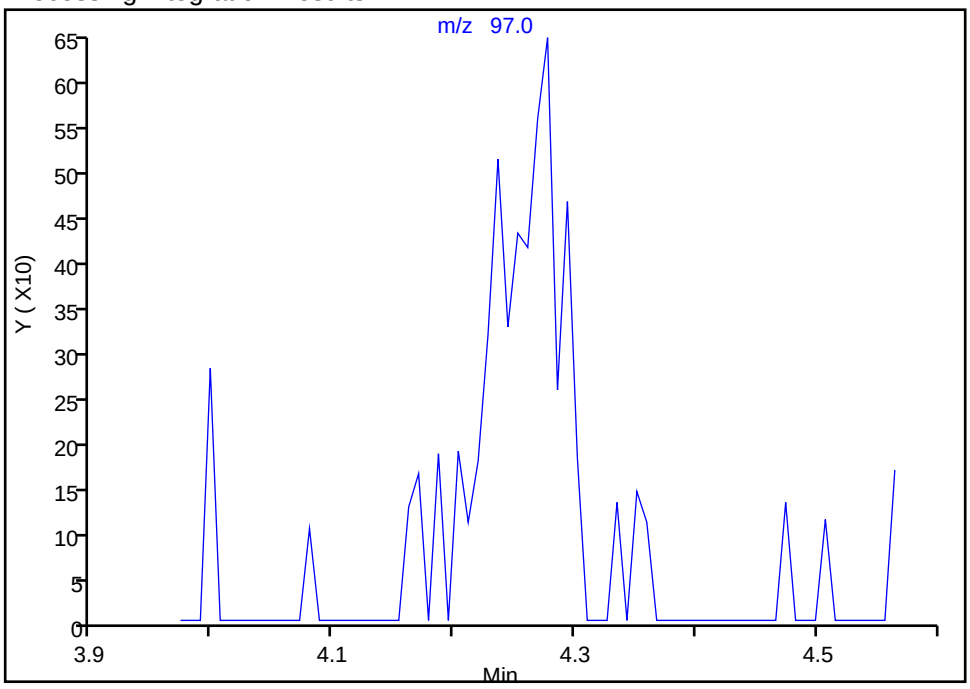
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

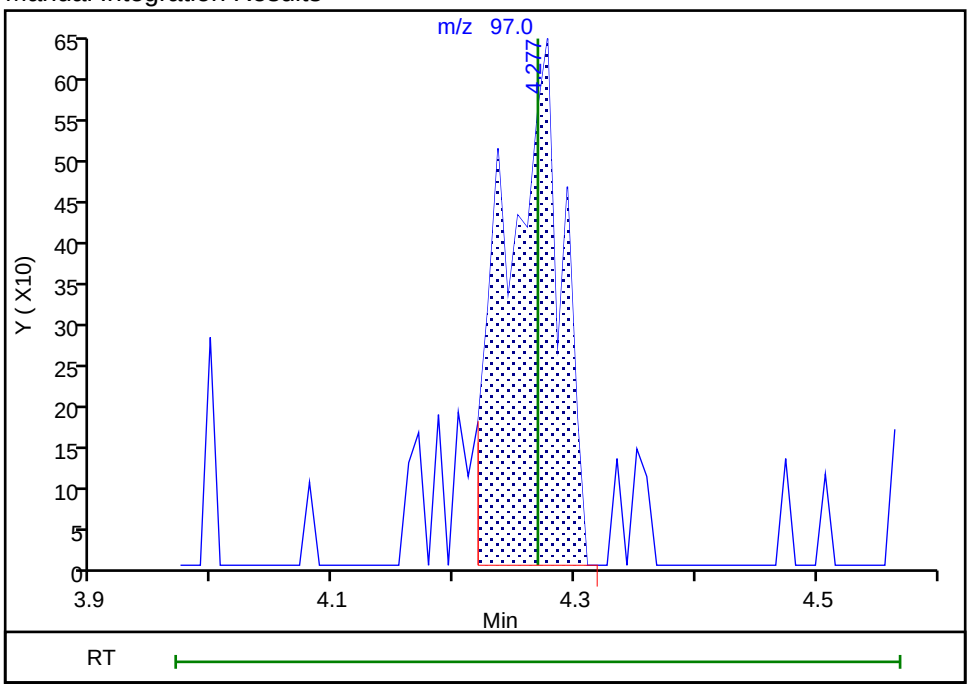
Not Detected
Expected RT: 4.27

Processing Integration Results



Manual Integration Results

RT: 4.28
Area: 2112
Amount: 1.176045
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:44:37
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

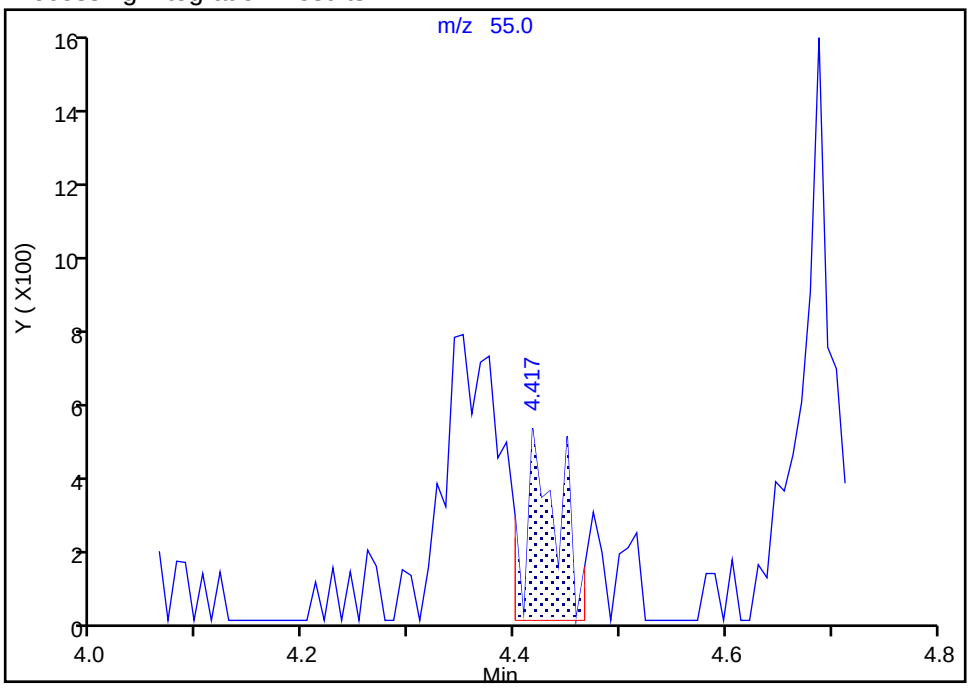
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

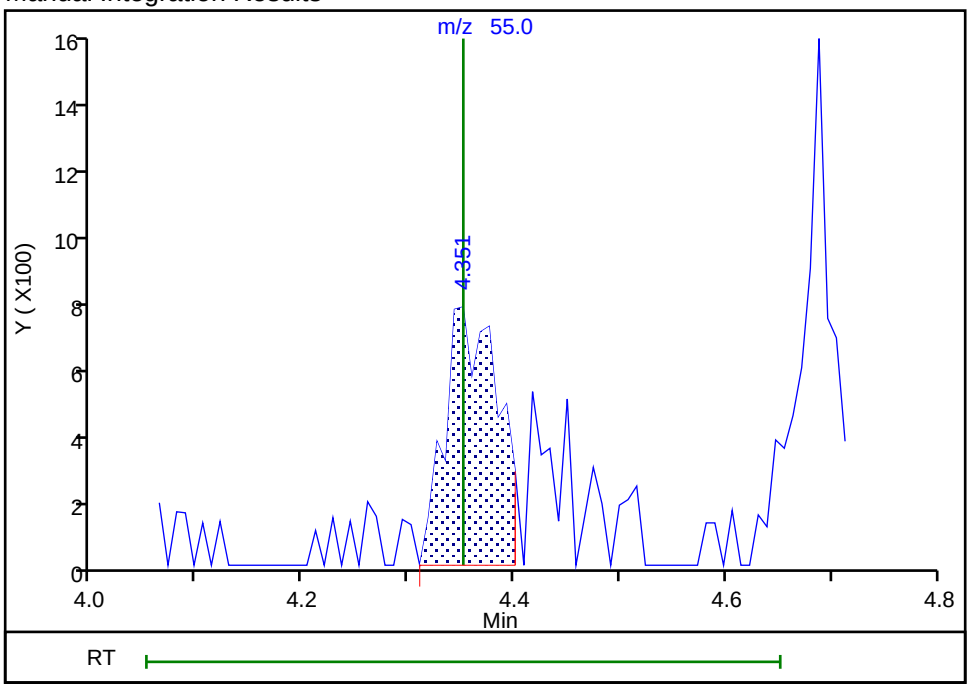
Processing Integration Results

RT: 4.42
Area: 1071
Amount: 0.391012
Amount Units: ug/l



Manual Integration Results

RT: 4.35
Area: 2625
Amount: 0.966114
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

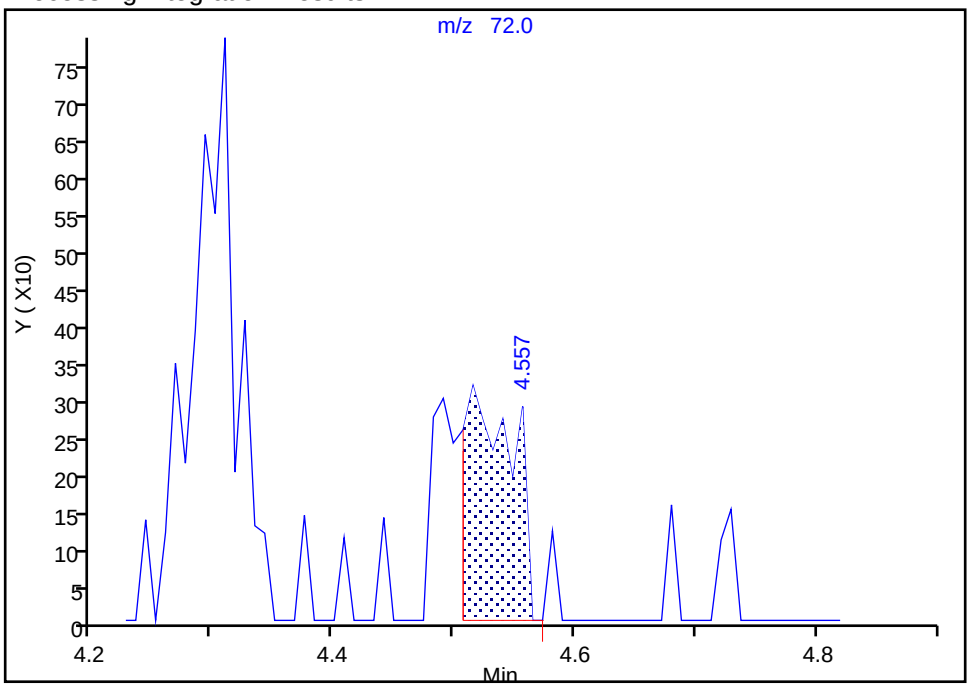
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

46 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

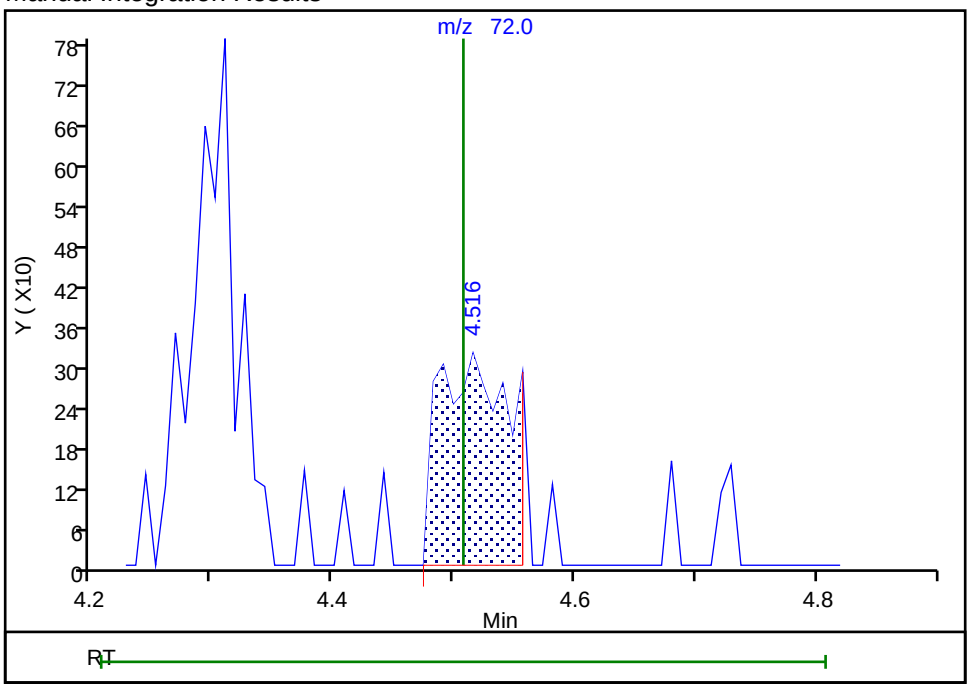
Processing Integration Results

RT: 4.56
Area: 894
Amount: 2.134241
Amount Units: ug/l



Manual Integration Results

RT: 4.52
Area: 1292
Amount: 2.011635
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:14
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

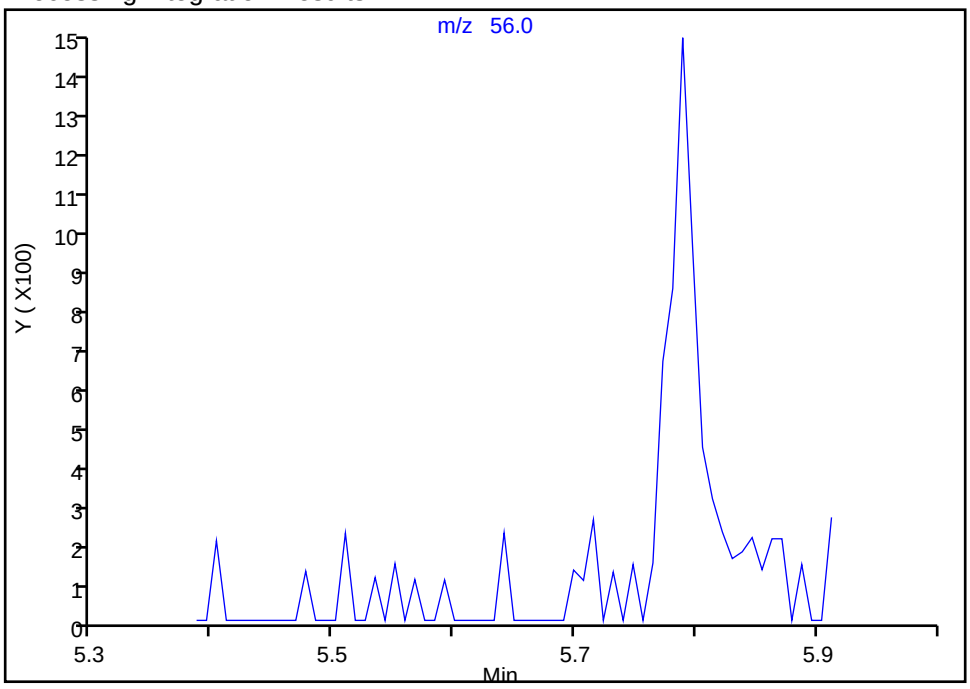
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

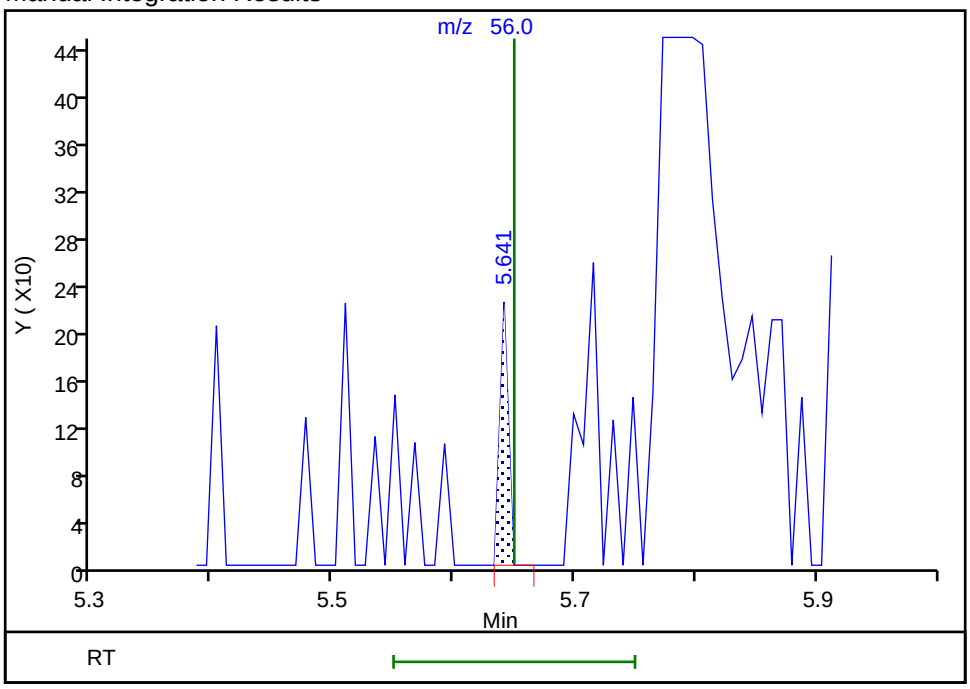
Not Detected
Expected RT: 5.65

Processing Integration Results



Manual Integration Results

RT: 5.64
Area: 109
Amount: 1.870900
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:45:49
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

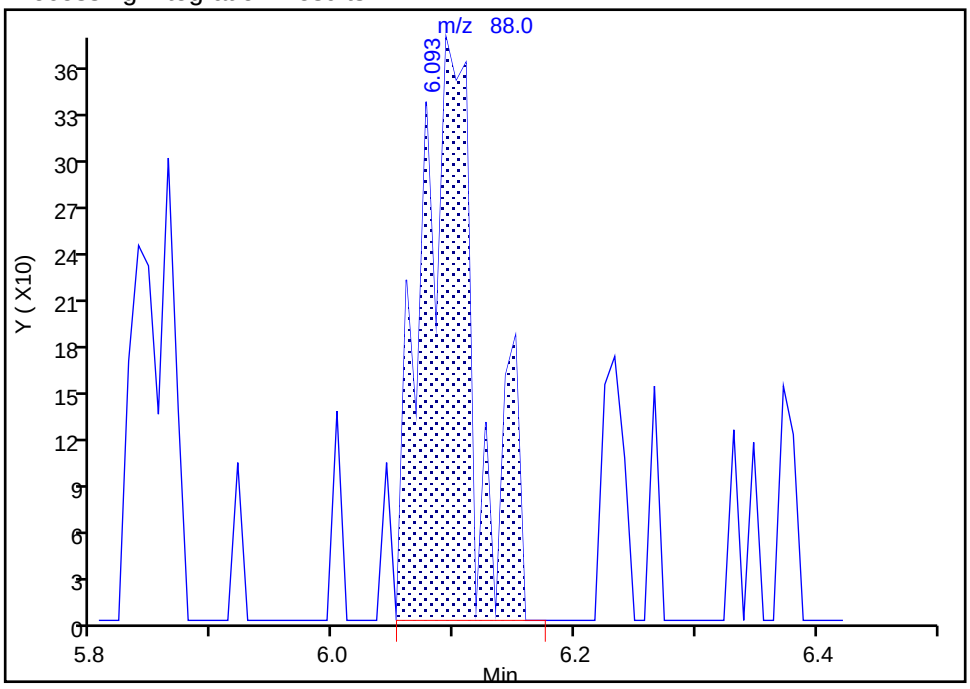
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

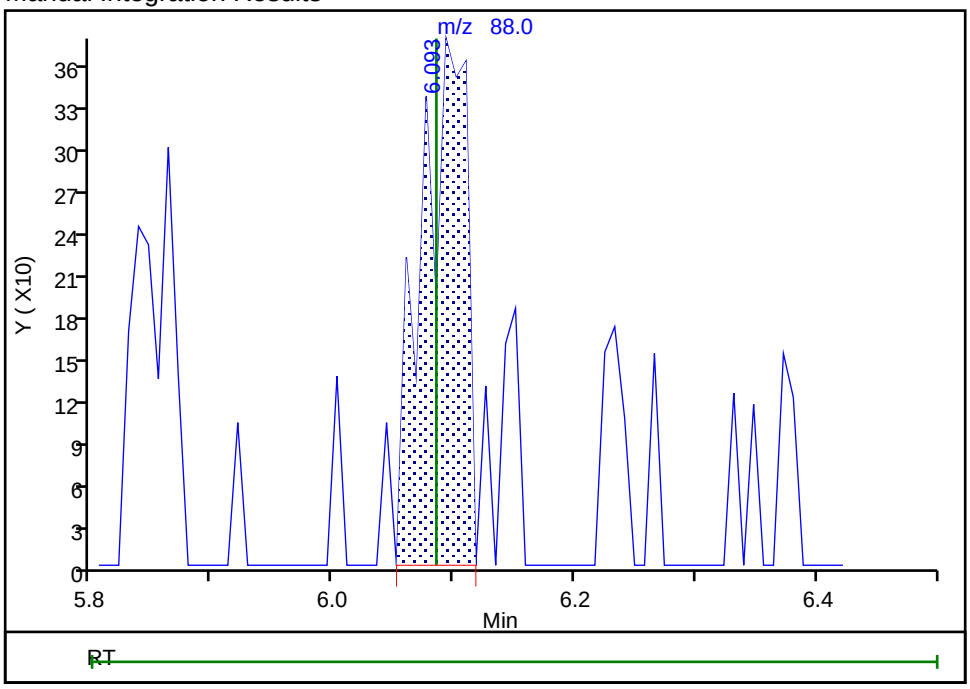
Processing Integration Results

RT: 6.09
Area: 1183
Amount: 67.510741
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 953
Amount: 51.669148
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:02:08
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

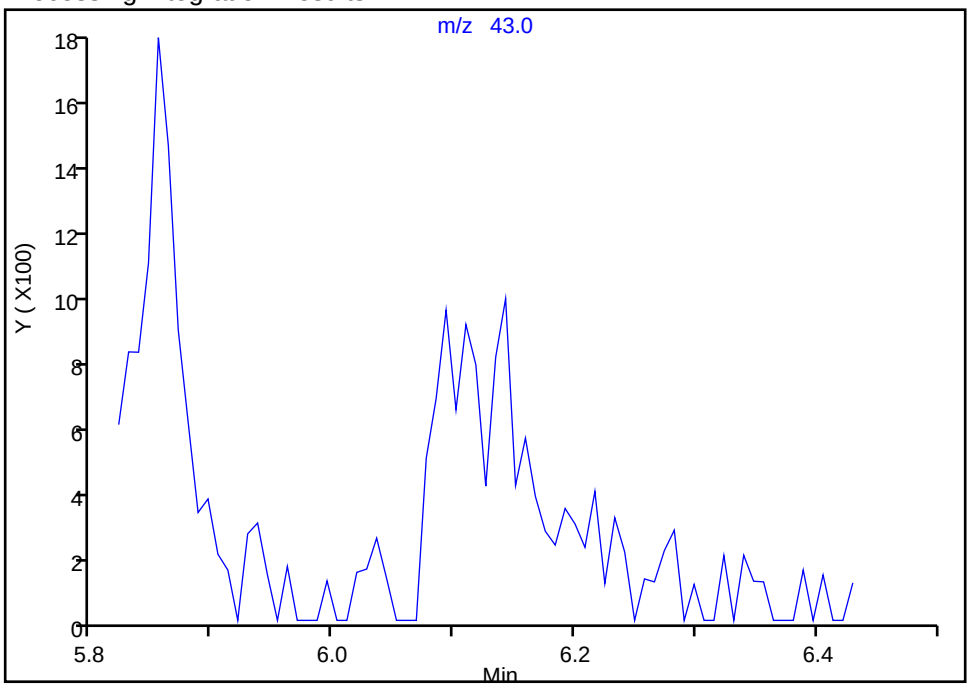
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

70 n-Propyl acetate, CAS: 109-60-4

Signal: 1

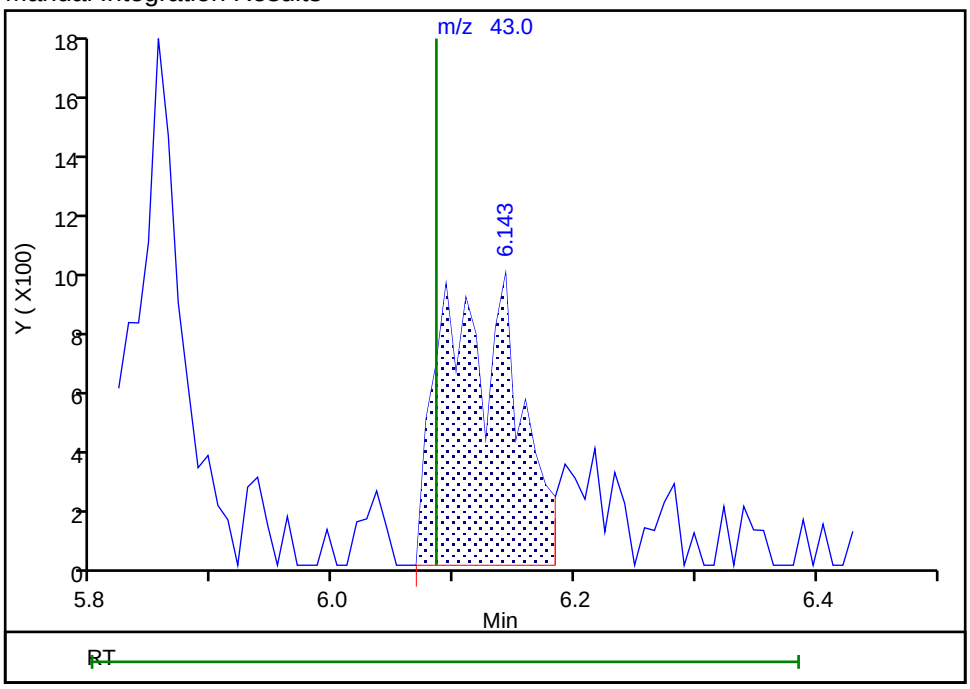
Not Detected
Expected RT: 6.09

Processing Integration Results



Manual Integration Results

RT: 6.14
Area: 4168
Amount: 0.938636
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:18
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

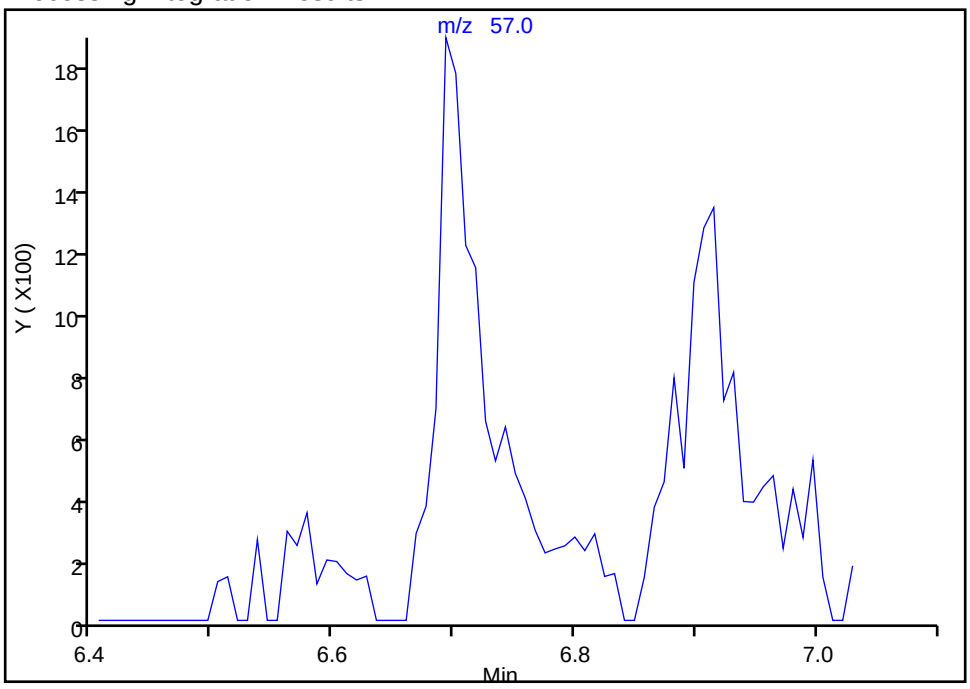
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

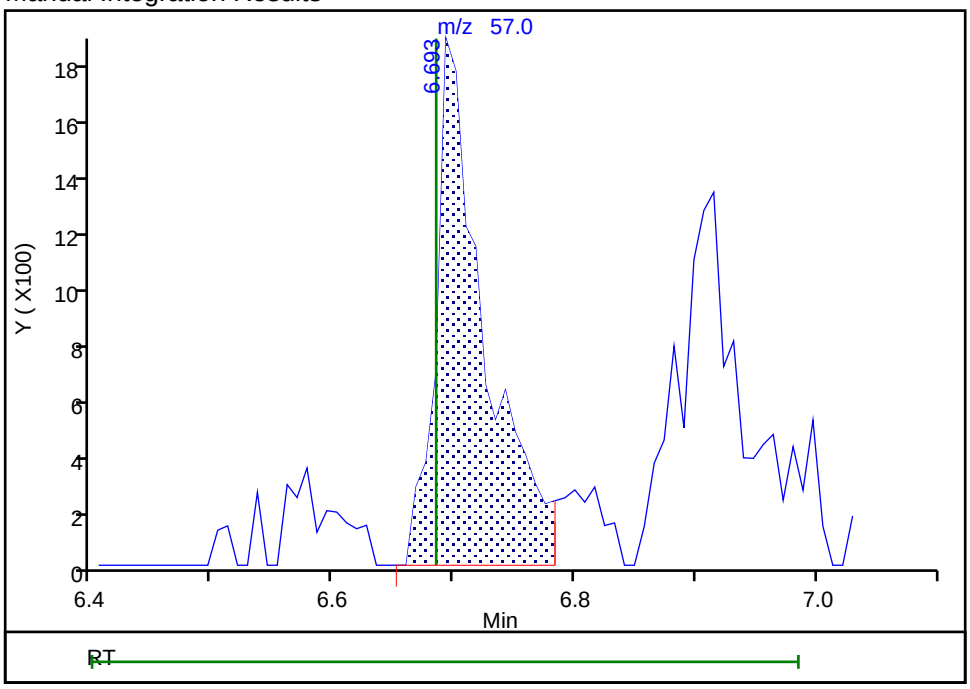
Not Detected
Expected RT: 6.69

Processing Integration Results



Manual Integration Results

RT: 6.69
Area: 5069
Amount: 18.530054
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:26
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

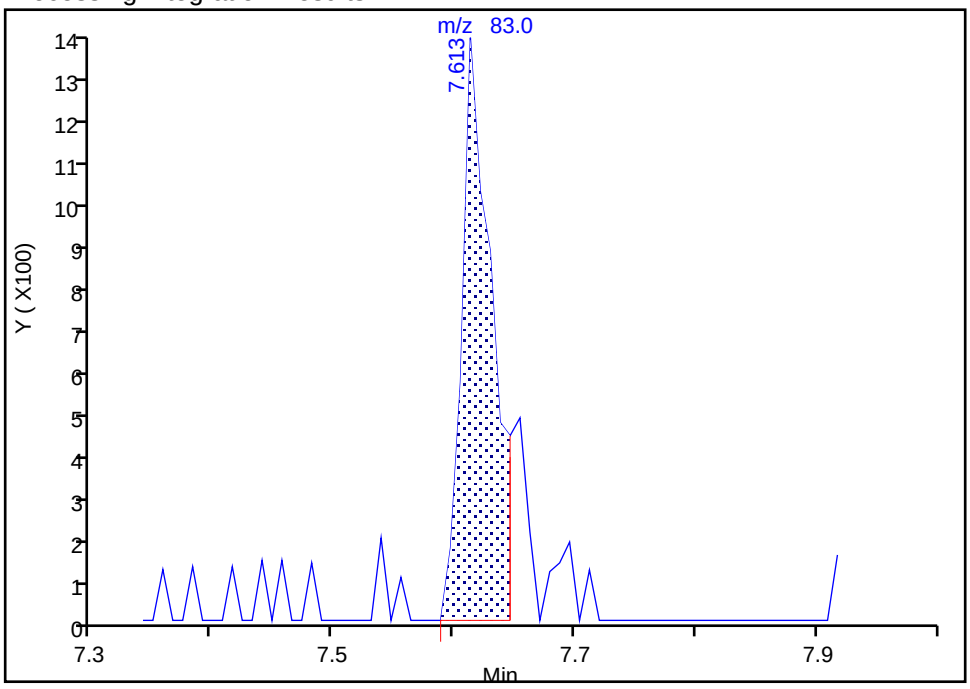
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

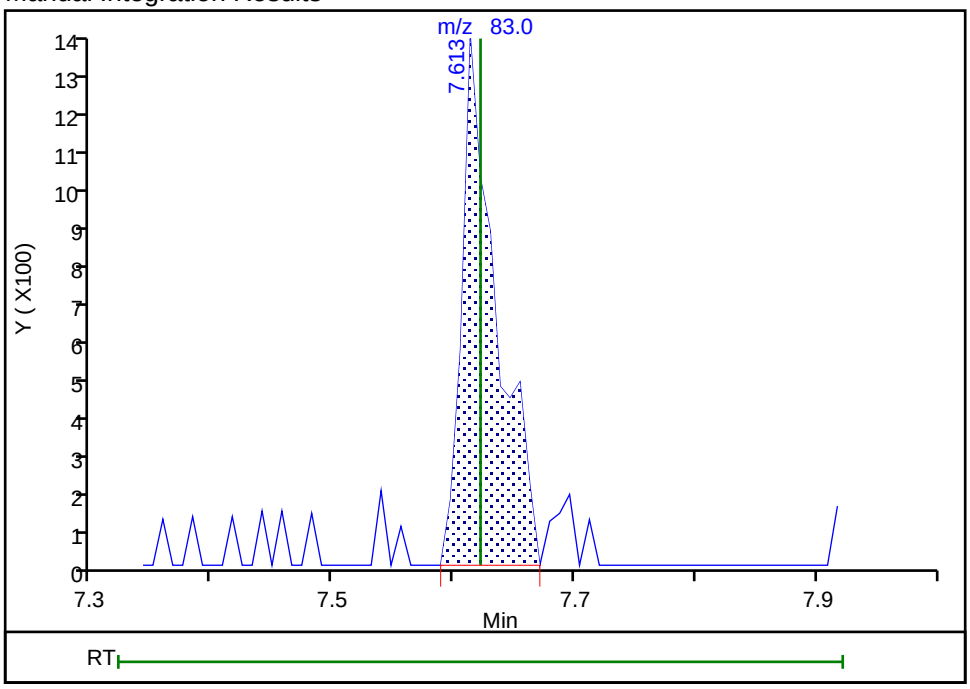
Processing Integration Results

RT: 7.61
Area: 2454
Amount: 0.842201
Amount Units: ug/l



Manual Integration Results

RT: 7.61
Area: 2798
Amount: 0.941731
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:46:47
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

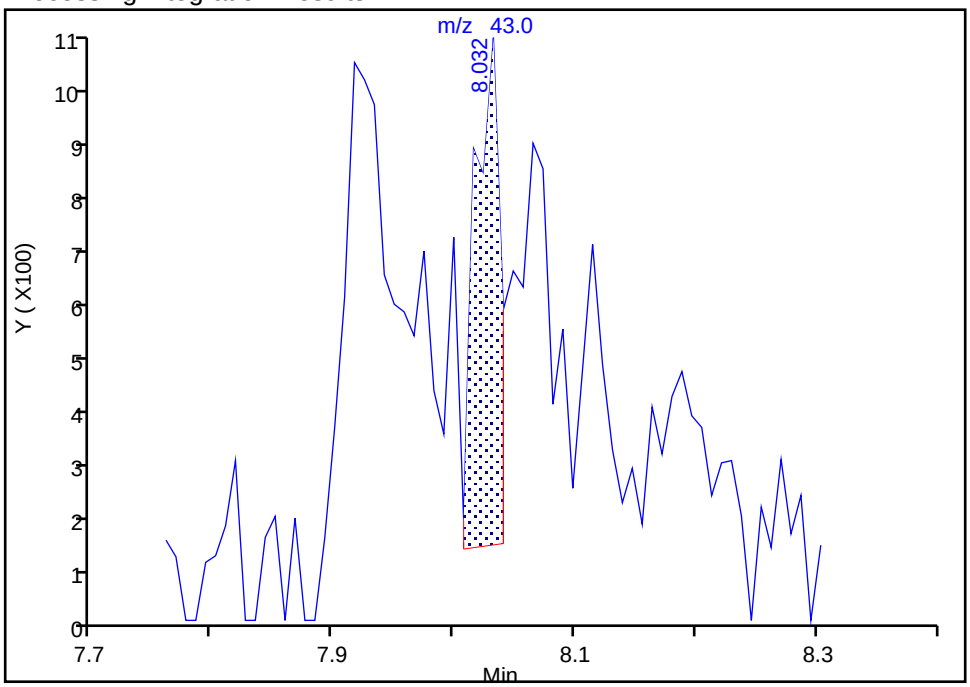
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

86 n-Butyl acetate, CAS: 123-86-4

Signal: 1

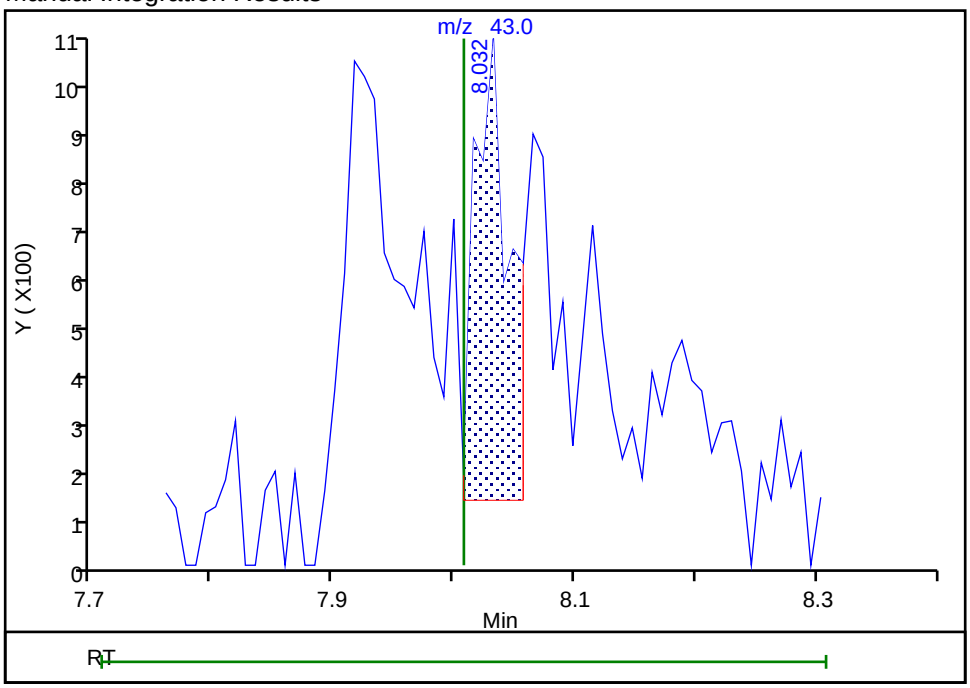
Processing Integration Results

RT: 8.03
Area: 1373
Amount: 0.278198
Amount Units: ug/l



Manual Integration Results

RT: 8.03
Area: 1864
Amount: 0.992171
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:00
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

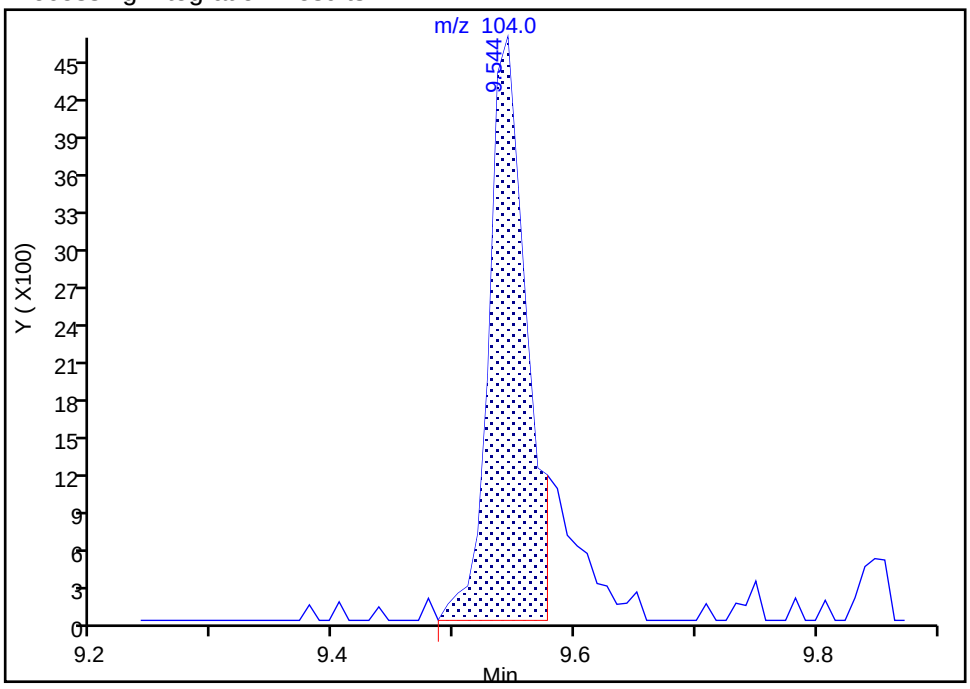
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 Styrene, CAS: 100-42-5

Signal: 1

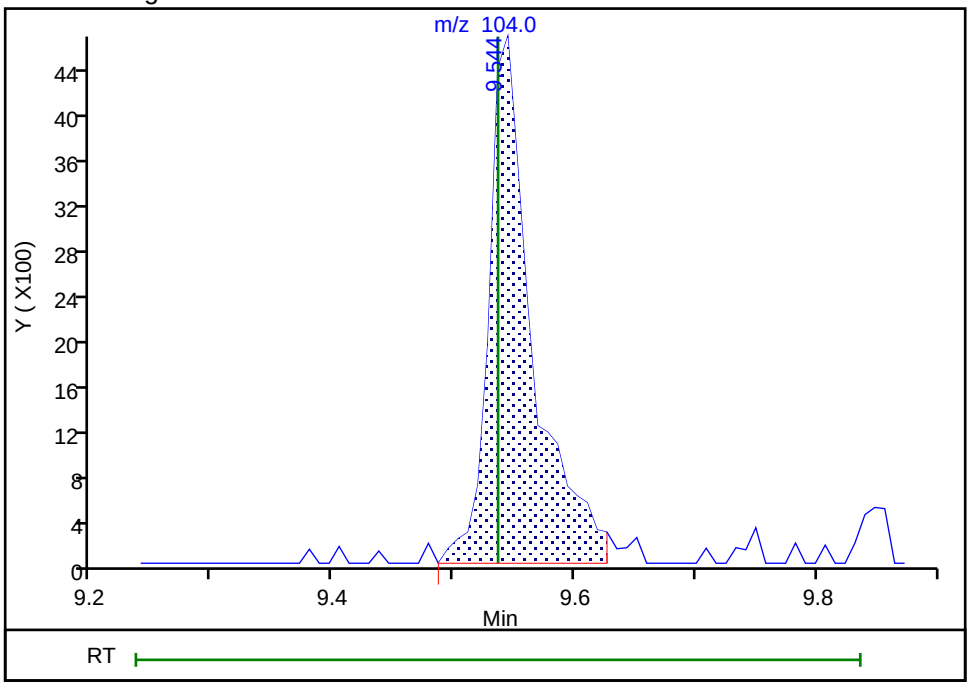
Processing Integration Results

RT: 9.54
Area: 9991
Amount: 0.822776
Amount Units: ug/l



Manual Integration Results

RT: 9.54
Area: 11669
Amount: 0.939329
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

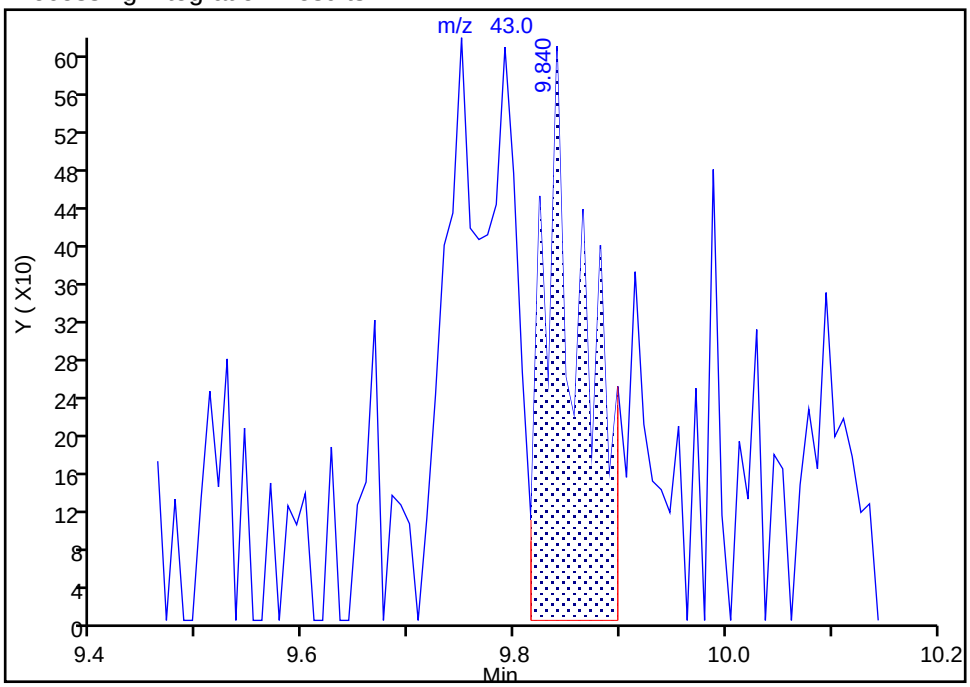
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67409.D
Injection Date: 08-Jul-2018 08:37:30 Instrument ID: CVOAMS6
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

97 Amyl acetate (mixed isomers), CAS: 628-63-7

Signal: 1

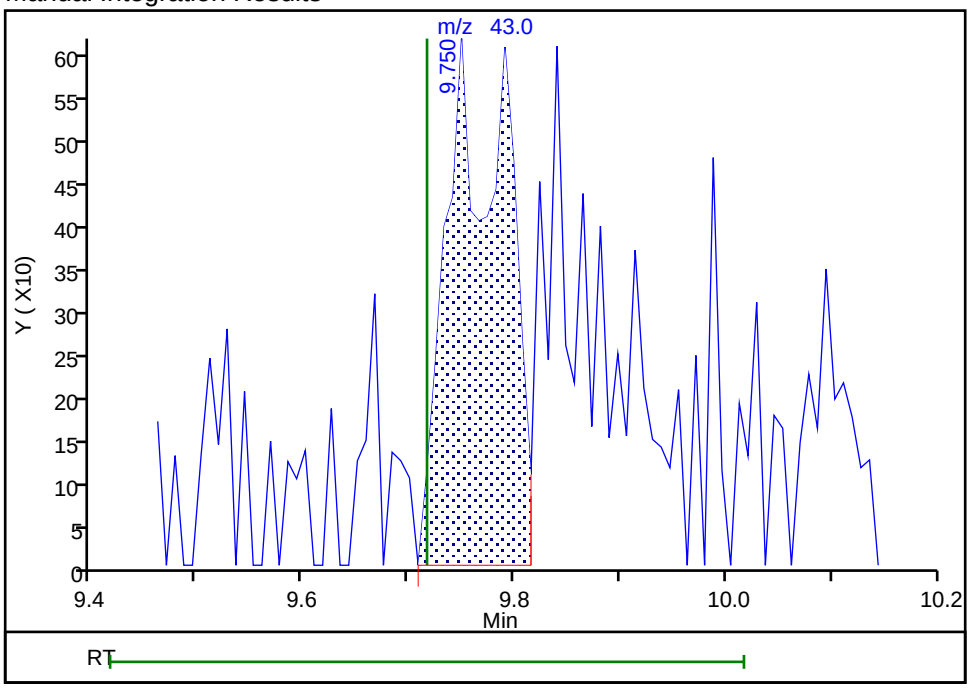
Processing Integration Results

RT: 9.84
Area: 1606
Amount: 0.253182
Amount Units: ug/l



Manual Integration Results

RT: 9.75
Area: 2413
Amount: 1.030421
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:47:33
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 08-Jul-2018 09:01:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0075068-005
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:00:59 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 09:41:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.541	-0.016	86	14256	5.00	5.16	
2 Dichlorodifluoromethane	85	1.558	1.574	-0.016	98	34244	5.00	5.13	
3 Chloromethane	50	1.738	1.747	-0.009	99	40491	5.00	4.97	
4 Vinyl chloride	62	1.821	1.837	-0.016	97	42176	5.00	5.18	
5 Butadiene	54	1.829	1.837	-0.008	88	35790	5.00	4.83	
6 Bromomethane	94	2.108	2.116	-0.008	95	28760	5.00	5.11	
7 Chloroethane	64	2.166	2.182	-0.016	98	24353	5.00	5.03	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	83	55907	5.00	5.44	
10 Pentane	72	2.346	2.363	-0.017	98	10144	10.0	12.8	
9 Trichlorofluoromethane	101	2.346	2.371	-0.025	56	41932	5.00	5.56	
11 Ethanol	46	2.576	2.544	0.032	69	1593	200.0	159.3	M
12 Ethyl ether	59	2.544	2.552	-0.008	94	16040	5.00	4.77	
13 2-Methyl-1,3-butadiene	53	2.560	2.568	-0.008	94	19820	5.00	5.06	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	94	21483	5.00	5.36	
15 Acrolein	56	2.724	2.724	0.000	37	5038	20.0	20.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	94	25985	5.00	5.56	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	21834	5.00	5.03	
18 Acetone	43	2.831	2.848	-0.017	88	20985	25.0	25.8	
19 Iodomethane	142	2.905	2.913	-0.008	97	40210	5.00	5.14	
20 Isopropyl alcohol	45	2.922	2.946	-0.024	26	7433	50.0	50.5	
21 Carbon disulfide	76	2.938	2.955	-0.017	99	89893	5.00	5.18	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	92	42210	5.00	5.08	
24 Methyl acetate	43	3.070	3.078	-0.008	57	26571	10.0	10.6	
23 Cyclopentene	67	3.078	3.086	-0.008	90	56774	5.00	5.15	
25 Acetonitrile	41	3.135	3.144	-0.009	53	17289	50.0	39.9	
27 Methylene Chloride	84	3.185	3.193	-0.008	93	28558	5.00	5.35	
* 26 TBA-d9 (IS)	65	3.185	3.193	-0.008	0	125748	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.259	-0.009	91	12782	50.0	48.3	M
29 Methyl tert-butyl ether	73	3.341	3.349	-0.008	97	65514	5.00	5.10	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	24093	5.00	5.02	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	99	72019	50.0	50.2	
32 Hexane	43	3.513	3.522	-0.009	94	19556	5.00	5.00	
33 Isopropyl ether	45	3.719	3.727	-0.008	99	74480	5.00	5.07	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	47774	5.00	5.61	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	7751	10.0	9.41	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	90	20482	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	66745	5.00	4.85	
* 38 2-Butanone-d5	46	4.228	4.236	-0.008	0	142843	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.269	-0.016	65	8939	5.00	4.97	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	97	28363	5.00	5.26	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	84	9499	25.0	25.1	
42 Ethyl acetate	70	4.286	4.286	0.000	89	3962	10.0	10.5	
43 Methyl acrylate	55	4.351	4.351	0.000	96	12350	5.00	4.47	
44 Propionitrile	54	4.425	4.425	0.000	96	22168	50.0	47.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	85	13409	5.00	5.38	
46 Tetrahydrofuran	72	4.516	4.508	0.008	50	4446	10.0	9.41	
47 Methacrylonitrile	67	4.516	4.524	-0.008	91	75501	50.0	48.4	
48 Chloroform	83	4.549	4.549	0.000	97	39973	5.00	5.19	
49 Cyclohexane	84	4.680	4.688	-0.008	88	36899	5.00	5.14	
50 1,1,1-Trichloroethane	97	4.688	4.697	-0.009	54	34126	5.00	4.97	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	95222	50.0	50.9	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	29360	5.00	5.27	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	31815	5.00	5.24	
54 Isobutyl alcohol	43	4.976	4.992	-0.016	41	23852	125.0	112.1	
55 Benzene	78	5.033	5.033	0.000	96	97753	5.00	5.44	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	94533	50.0	47.3	
57 Isopropyl acetate	43	5.083	5.083	0.000	77	51248	5.00	4.66	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	73115	5.00	4.99	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	27555	5.00	4.97	
60 n-Heptane	57	5.173	5.181	-0.008	91	16247	5.00	4.83	
* 61 Fluorobenzene	96	5.313	5.321	-0.008	99	375144	50.0	50.0	
62 n-Butanol	56	5.682	5.650	0.032	25	3506	125.0	55.5	
63 Trichloroethene	95	5.666	5.674	-0.008	97	23075	5.00	4.99	
65 Ethyl acrylate	55	5.789	5.789	0.000	90	48819	5.00	4.86	
64 Methylcyclohexane	83	5.789	5.798	-0.009	89	40143	5.00	4.93	
66 1,2-Dichloropropane	63	5.954	5.962	-0.008	92	24865	5.00	5.19	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	10982	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.028	0.008	87	7979	10.0	9.03	
70 n-Propyl acetate	43	6.093	6.085	0.008	94	19557	5.00	4.40	
69 1,4-Dioxane	88	6.093	6.085	0.008	25	2029	100.0	96.8	
71 Dibromomethane	93	6.093	6.093	0.000	97	13049	5.00	4.78	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	27927	5.00	4.79	
74 2-Chloroethyl vinyl ether	63	6.578	6.570	0.008	80	8574	5.00	4.10	
73 2-Nitropropane	41	6.570	6.570	0.000	88	8656	10.0	10.4	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	28499	100.0	99.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	31426	5.00	4.82	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	72940	25.0	25.0	
$ 78 Toluene-d8 (Surr)	98	6.973	6.981	-0.008	99	366322	50.0	51.7	
79 Toluene	91	7.055	7.055	0.000	92	95962	5.00	5.29	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	27107	5.00	4.99	
81 Ethyl methacrylate	69	7.441	7.433	0.008	86	20020	5.00	4.50	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	16220	5.00	5.37	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	95	23541	5.00	5.31	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	94	27661	5.00	4.84	
85 2-Hexanone	43	7.901	7.893	0.008	94	35757	25.0	23.3	
86 n-Butyl acetate	43	8.008	8.008	0.000	96	24106	5.00	5.21	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	19562	5.00	4.99	
88 Ethylene Dibromide	107	8.213	8.222	-0.009	100	17425	5.00	5.29	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	257261	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	58106	5.00	5.09	
91 Ethylbenzene	106	8.895	8.895	0.000	98	32213	5.00	4.88	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.920	-0.008	95	22718	5.00	5.24	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	39690	5.00	5.05	
94 n-Butyl acrylate	73	9.495	9.487	0.008	46	12223	5.00	4.57	
95 o-Xylene	106	9.503	9.503	0.000	94	40346	5.00	4.96	
96 Styrene	104	9.536	9.536	0.000	96	59744	5.00	4.73	
97 Amyl acetate (mixed isomer	43	9.725	9.717	0.008	92	25124	5.00	4.26	
98 Bromoform	173	9.742	9.742	0.000	96	12599	5.00	5.02	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	102121	5.00	5.23	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	106636	50.0	51.3	
101 Bromobenzene	156	10.152	10.144	0.008	98	25405	5.00	4.73	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	26083	5.00	5.15	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	127766	5.00	5.18	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	6415	5.00	4.49	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	72	4806	5.00	4.72	
106 2-Chlorotoluene	91	10.292	10.292	0.000	93	87223	5.00	5.02	
107 4-Ethyltoluene	105	10.300	10.300	0.000	87	101134	5.00	4.98	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	89710	5.00	5.01	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	77680	5.00	5.06	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	23847	5.00	4.30	
111 tert-Butylbenzene	119	10.588	10.588	0.000	96	69427	5.00	4.81	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	96	92231	5.00	5.06	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	115270	5.00	5.18	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	97	92127	5.00	4.90	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	54210	5.00	5.14	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	95	155550	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	96	56793	5.00	5.23	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	97482	5.00	5.04	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	45280	5.00	4.68	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	93	102646	5.00	5.27	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	58887	5.00	5.09	
121 n-Butylbenzene	92	11.122	11.114	0.008	97	52880	5.00	4.93	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	54281	5.00	5.14	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	87056	5.00	4.82	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	93	4759	5.00	5.10	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	42265	5.00	5.14	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	36082	5.00	4.93	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	17800	5.00	5.13	
128 Naphthalene	128	12.314	12.314	0.000	99	71630	5.00	4.63	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	93	33688	5.00	4.80	
S 130 1,2-Dichloroethene, Total	100				0		10.0	10.3	
S 131 Xylenes, Total	100				0		10.0	10.0	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D

Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6 Operator ID:

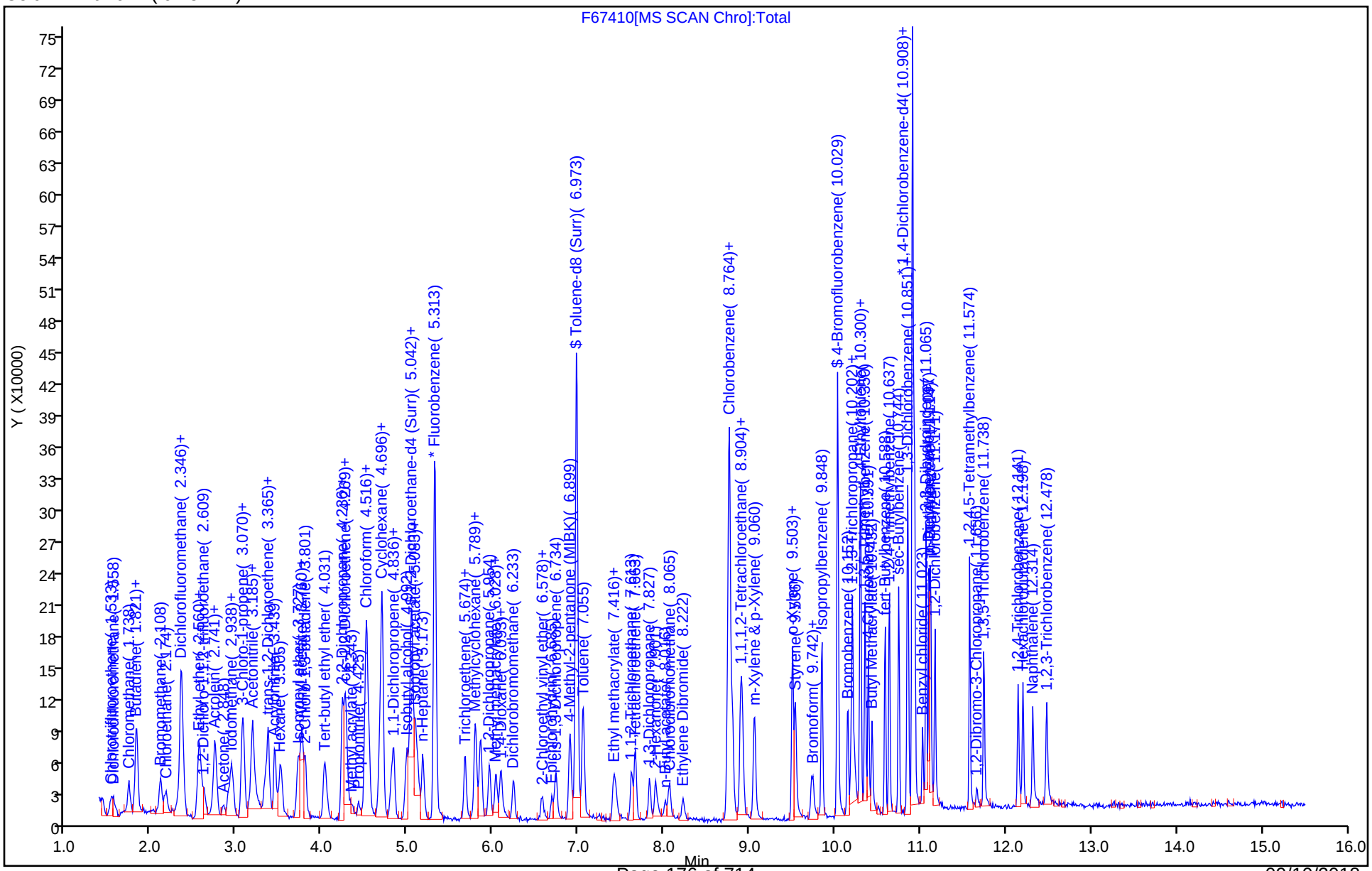
Lims ID: STD5 Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

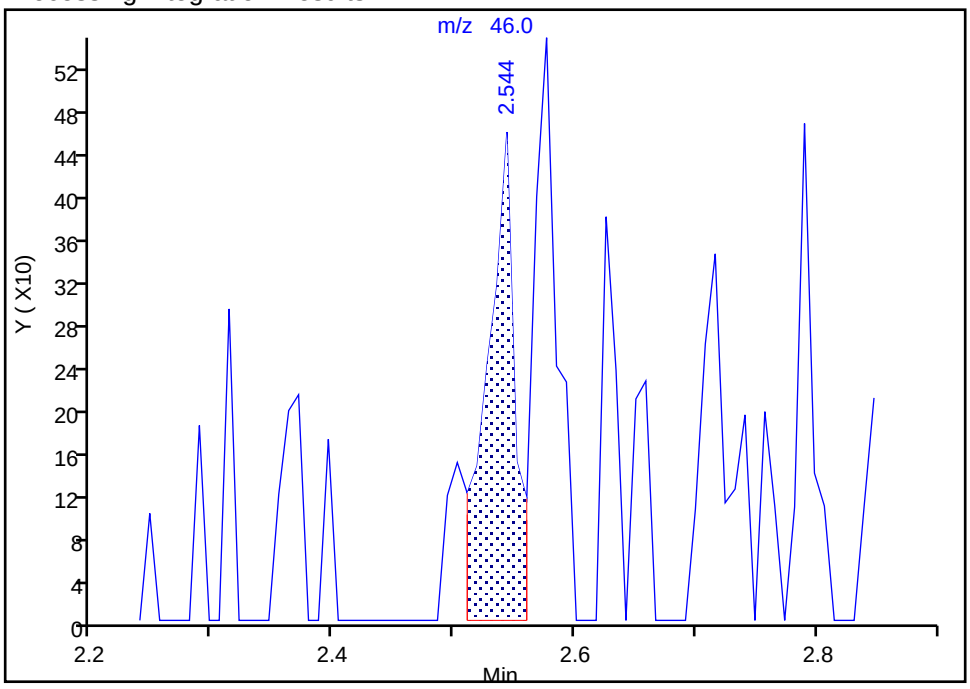
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

11 Ethanol, CAS: 64-17-5

Signal: 1

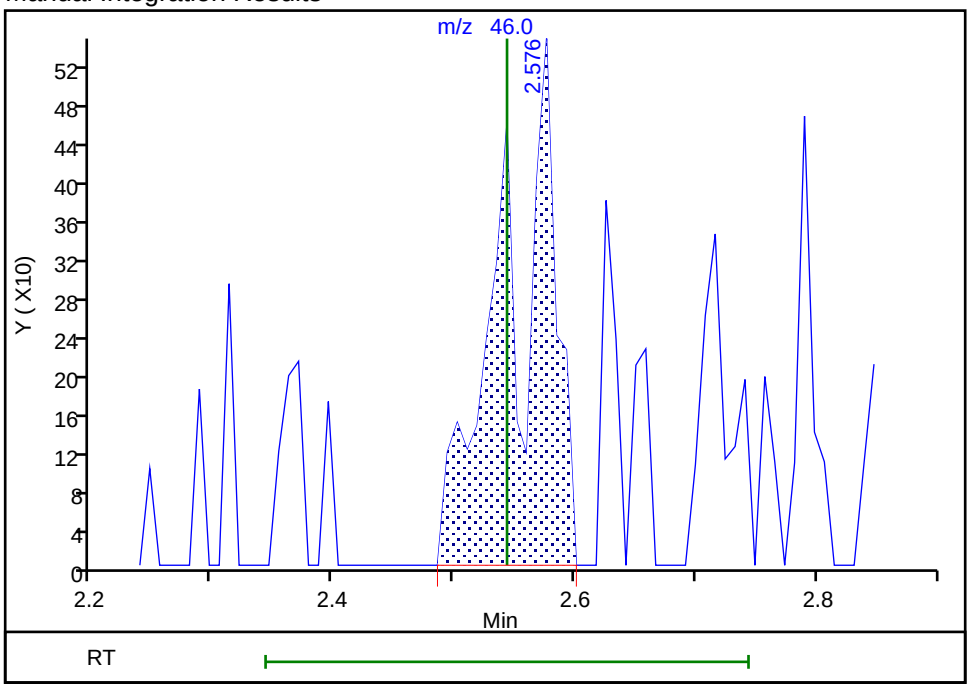
Processing Integration Results

RT: 2.54
Area: 764
Amount: 107.3294
Amount Units: ug/l



Manual Integration Results

RT: 2.58
Area: 1593
Amount: 159.3053
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:48:44
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

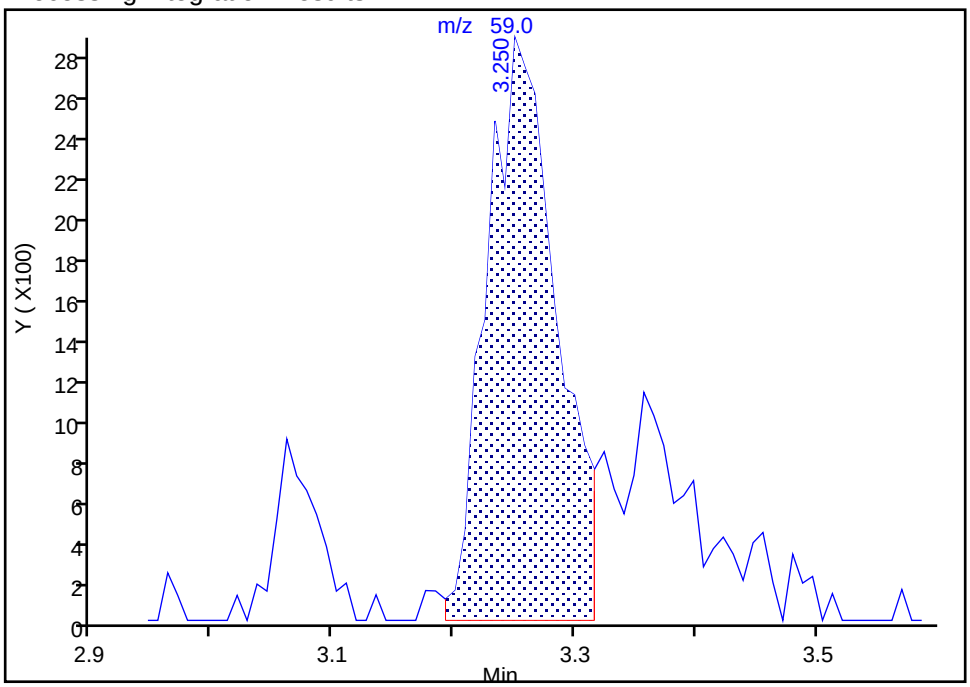
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67410.D
Injection Date: 08-Jul-2018 09:01:30 Instrument ID: CVOAMS6
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

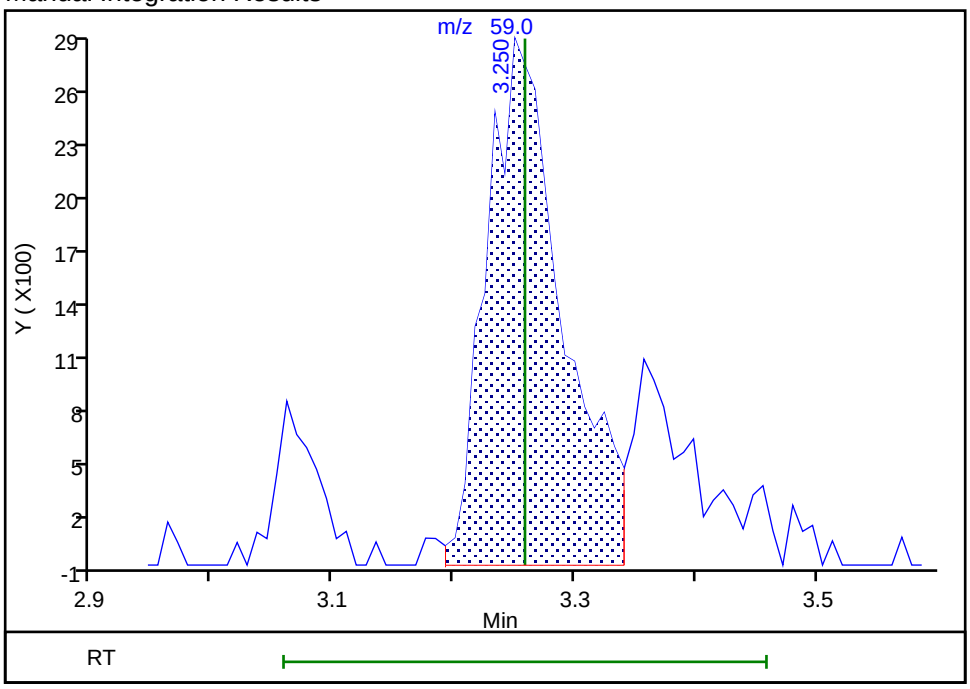
Processing Integration Results

RT: 3.25
Area: 11778
Amount: 45.112750
Amount Units: ug/l



Manual Integration Results

RT: 3.25
Area: 12782
Amount: 48.338693
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:49:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 08-Jul-2018 09:24:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0075068-006
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:01:17 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: delpolitov Date: 08-Jul-2018 18:59:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	55175	20.0	19.5	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	129388	20.0	19.0	
3 Chloromethane	50	1.747	1.747	0.000	98	160414	20.0	19.2	
5 Butadiene	54	1.837	1.837	0.000	93	142283	20.0	18.8	
4 Vinyl chloride	62	1.837	1.837	0.000	97	162796	20.0	19.5	
6 Bromomethane	94	2.116	2.116	0.000	98	110997	20.0	19.3	
7 Chloroethane	64	2.182	2.182	0.000	99	95876	20.0	19.4	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	222984	20.0	21.2	
10 Pentane	72	2.363	2.363	0.000	96	34097	40.0	42.9	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	56	152955	20.0	19.8	
11 Ethanol	46	2.544	2.544	0.000	77	8161	800.0	814.9	
12 Ethyl ether	59	2.552	2.552	0.000	94	71323	20.0	20.7	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	81333	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	94	82854	20.0	20.2	
15 Acrolein	56	2.724	2.724	0.000	91	10465	40.0	42.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	97594	20.0	20.4	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	87779	20.0	19.8	
18 Acetone	43	2.848	2.848	0.000	88	87955	100.0	100.9	
19 Iodomethane	142	2.913	2.913	0.000	98	161807	20.0	20.2	
20 Isopropyl alcohol	45	2.946	2.946	0.000	27	29403	200.0	199.6	
21 Carbon disulfide	76	2.955	2.955	0.000	99	345818	20.0	19.5	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	175027	20.0	20.6	
24 Methyl acetate	43	3.078	3.078	0.000	98	107177	40.0	41.7	
23 Cyclopentene	67	3.086	3.086	0.000	95	231916	20.0	20.6	
25 Acetonitrile	41	3.144	3.144	0.000	95	108682	200.0	250.4	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	125933	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	113133	20.0	20.7	
28 2-Methyl-2-propanol	59	3.259	3.259	0.000	91	58208	200.0	219.8	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	273962	20.0	20.8	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	101552	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	96	317916	200.0	216.8	
32 Hexane	43	3.522	3.522	0.000	91	77335	20.0	19.3	
33 Isopropyl ether	45	3.727	3.727	0.000	95	321190	20.0	21.4	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	182293	20.0	20.9	
35 Vinyl acetate	86	3.776	3.776	0.000	99	36794	40.0	43.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	89837	20.0	20.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	89	299751	20.0	21.3	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	152866	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	37516	20.0	20.4	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	116397	20.0	21.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	15347	40.0	38.0	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	42012	100.0	103.7	
43 Methyl acrylate	55	4.351	4.351	0.000	99	63052	20.0	21.6	
44 Propionitrile	54	4.425	4.425	0.000	98	108891	200.0	232.4	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	54045	20.0	21.2	
46 Tetrahydrofuran	72	4.508	4.508	0.000	51	20859	40.0	45.4	
47 Methacrylonitrile	67	4.524	4.524	0.000	90	334922	200.0	210.1	
48 Chloroform	83	4.549	4.549	0.000	98	171632	20.0	21.8	
49 Cyclohexane	84	4.688	4.688	0.000	90	146994	20.0	20.0	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	97	138900	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	97066	50.0	50.8	
52 Carbon tetrachloride	117	4.812	4.812	0.000	99	114190	20.0	20.0	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	98	126530	20.0	20.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	111808	500.0	524.7	
55 Benzene	78	5.033	5.033	0.000	95	402110	20.0	21.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	97955	50.0	48.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	228711	20.0	20.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	92	312799	20.0	20.9	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	112597	20.0	19.8	
60 n-Heptane	57	5.181	5.181	0.000	89	68281	20.0	19.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	383589	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	80	26985	500.0	423.7	
63 Trichloroethene	95	5.674	5.674	0.000	99	95905	20.0	20.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	96	215422	20.0	21.0	
64 Methylcyclohexane	83	5.798	5.798	0.000	88	168517	20.0	20.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	95	101451	20.0	20.7	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	12235	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.028	0.000	87	39048	40.0	39.6	
69 1,4-Dioxane	88	6.085	6.085	0.000	25	10773	400.0	461.3	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	89611	20.0	19.7	
71 Dibromomethane	93	6.093	6.093	0.000	96	57505	20.0	20.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	121094	20.0	20.3	
73 2-Nitropropane	41	6.570	6.570	0.000	81	30596	40.0	36.0	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	42627	20.0	19.9	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	134393	400.0	439.0	a
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	142629	20.0	20.7	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	344643	100.0	110.2	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	375578	50.0	50.1	
79 Toluene	91	7.055	7.055	0.000	93	409728	20.0	21.3	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	113666	20.0	19.8	
81 Ethyl methacrylate	69	7.433	7.433	0.000	88	98286	20.0	20.9	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	68341	20.0	21.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	96096	20.0	20.5	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	128841	20.0	21.3	
85 2-Hexanone	43	7.893	7.893	0.000	96	189724	100.0	102.8	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	107797	20.0	20.0	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	86190	20.0	20.8	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	72287	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	272089	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	254215	20.0	21.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	147681	20.0	21.2	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	95	95501	20.0	20.8	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	179024	20.0	21.5	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	56357	20.0	18.1	
95 o-Xylene	106	9.503	9.503	0.000	94	184452	20.0	21.4	
96 Styrene	104	9.536	9.536	0.000	96	293795	20.0	22.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	129234	20.0	19.6	
98 Bromoform	173	9.742	9.742	0.000	97	55269	20.0	20.8	
99 Isopropylbenzene	105	9.849	9.849	0.000	96	462092	20.0	22.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	111206	50.0	50.6	
101 Bromobenzene	156	10.144	10.144	0.000	98	113372	20.0	21.6	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	107861	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	557431	20.0	23.1	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	96	28590	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	23323	20.0	21.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	378178	20.0	22.3	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	468686	20.0	23.6	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	399827	20.0	22.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	338320	20.0	22.5	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	119948	20.0	20.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	307464	20.0	21.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	411165	20.0	23.1	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	491501	20.0	22.6	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	422281	20.0	23.0	a
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	229685	20.0	22.3	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	152088	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	239534	20.0	22.5	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	429601	20.0	22.7	
118 Benzyl chloride	91	11.024	11.024	0.000	99	213768	20.0	22.6	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	442460	20.0	23.3	
120 p-Diethylbenzene	119	11.098	11.098	0.000	94	260337	20.0	23.0	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	231171	20.0	22.1	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	96	230380	20.0	22.3	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	97	415827	20.0	23.6	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	19141	20.0	21.0	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	174592	20.0	21.7	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	157425	20.0	22.0	
127 Hexachlorobutadiene	225	12.199	12.199	0.000	95	67593	20.0	19.9	
128 Naphthalene	128	12.314	12.314	0.000	99	340468	20.0	22.5	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	149191	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.8	
S 131 Xylenes, Total	100				0		40.0	43.0	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00262	Amount Added:	2.00	Units: uL	
MIX I Hi_00095	Amount Added:	2.00	Units: uL	
Ethanol mix_00017	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	2.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:01:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D

Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6 Operator ID:

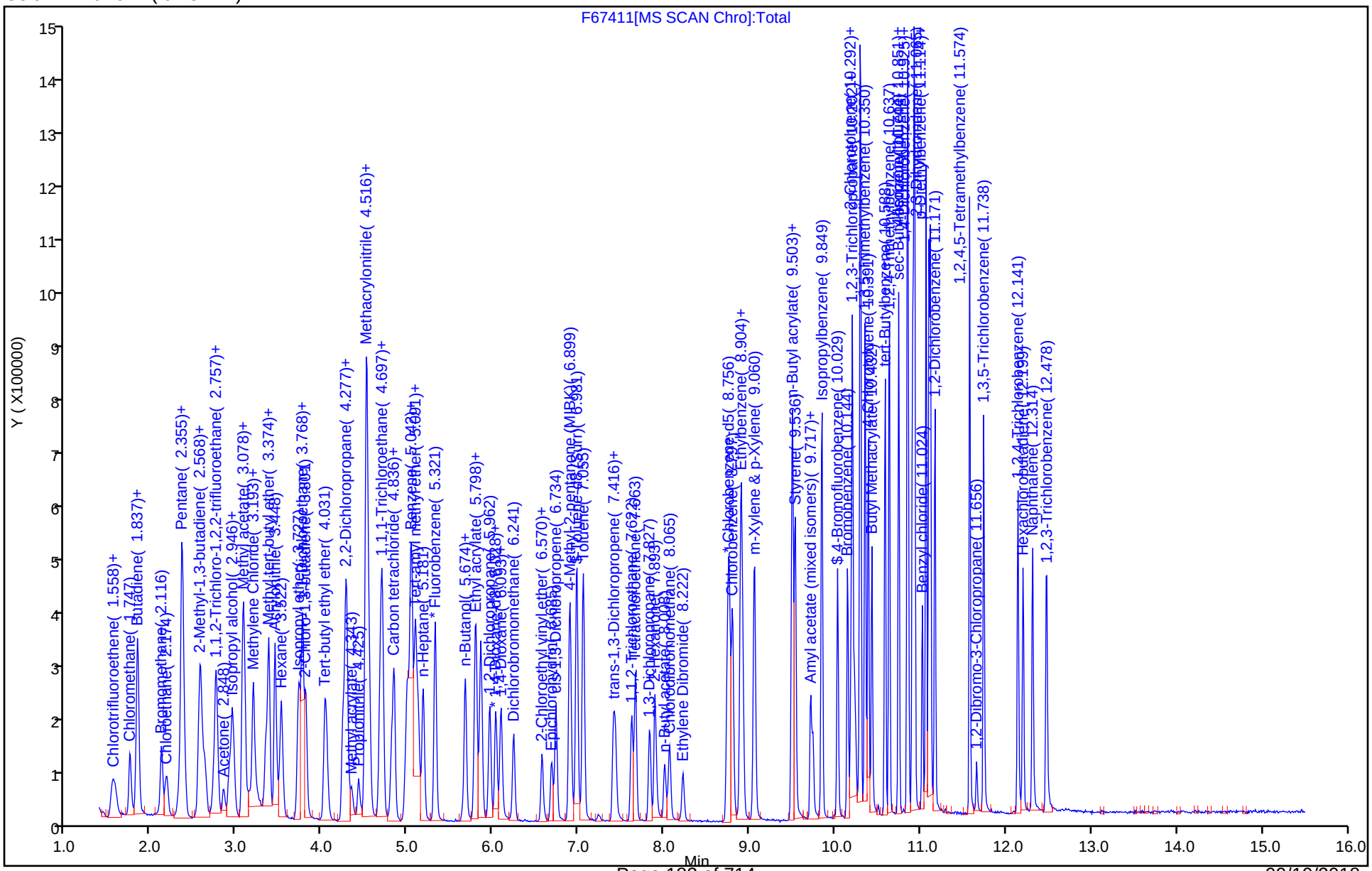
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

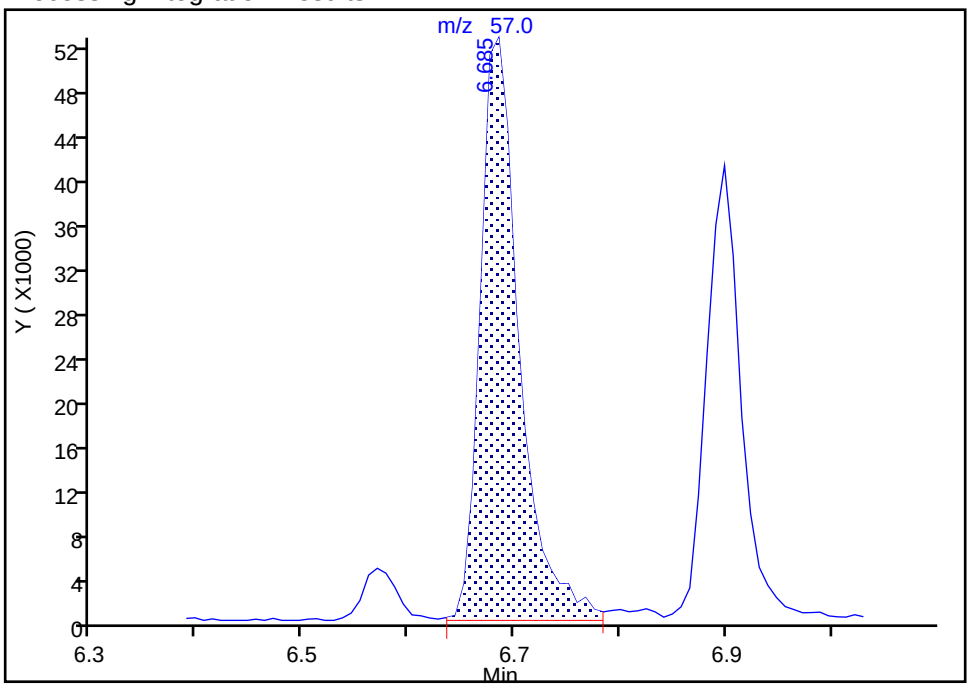
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 Epichlorohydrin, CAS: 106-89-8

Signal: 1

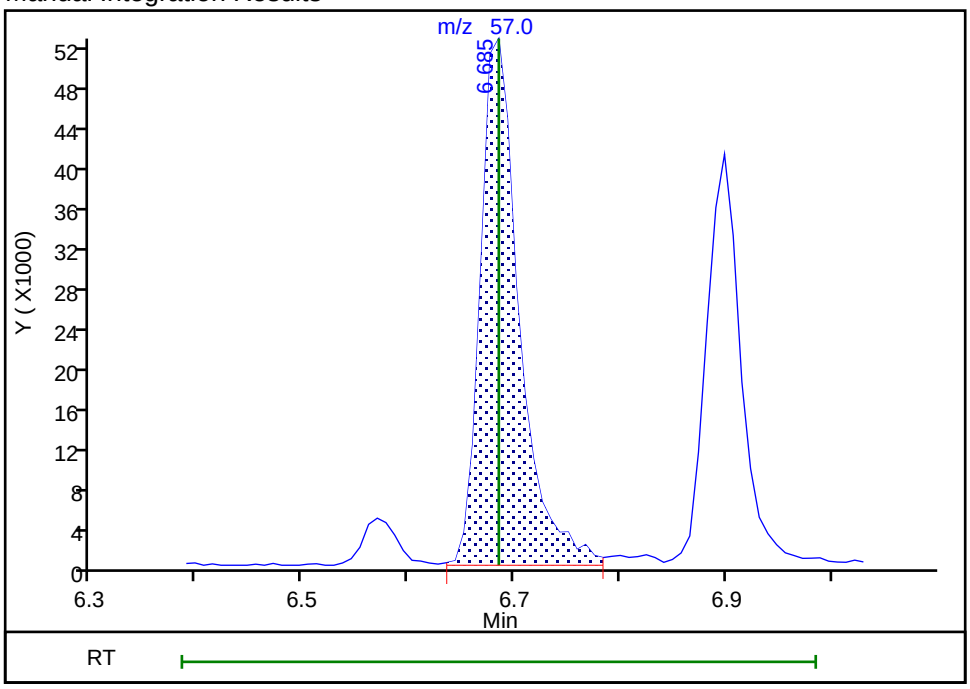
Processing Integration Results

RT: 6.69
Area: 134393
Amount: 546.8560
Amount Units: ug/l



Manual Integration Results

RT: 6.69
Area: 134393
Amount: 439.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:16:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

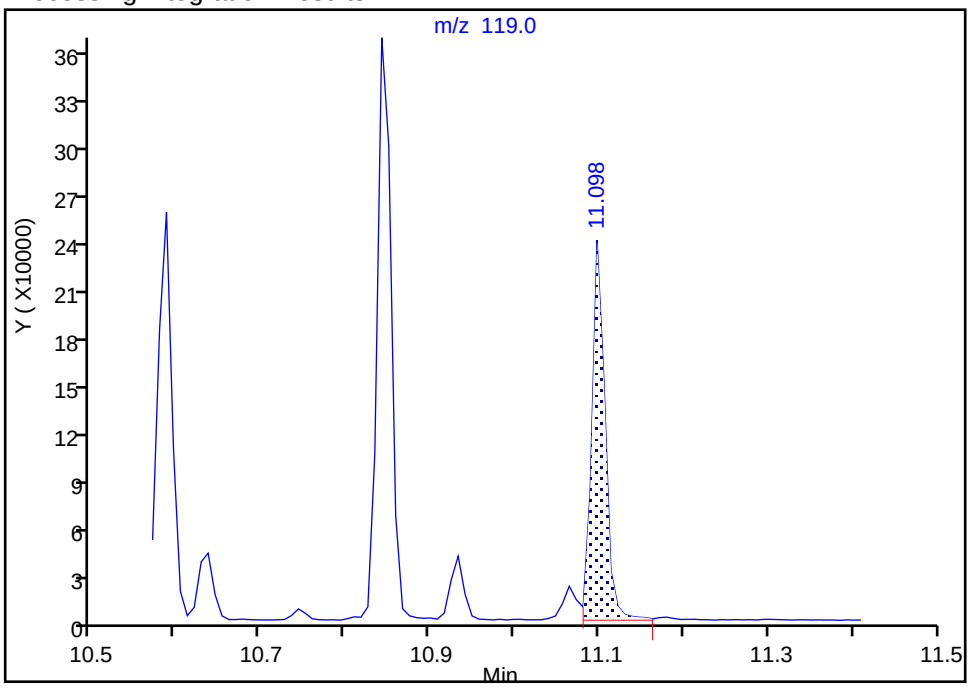
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67411.D
Injection Date: 08-Jul-2018 09:24:30 Instrument ID: CVOAMS6
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 4-Isopropyltoluene, CAS: 99-87-6

Signal: 1

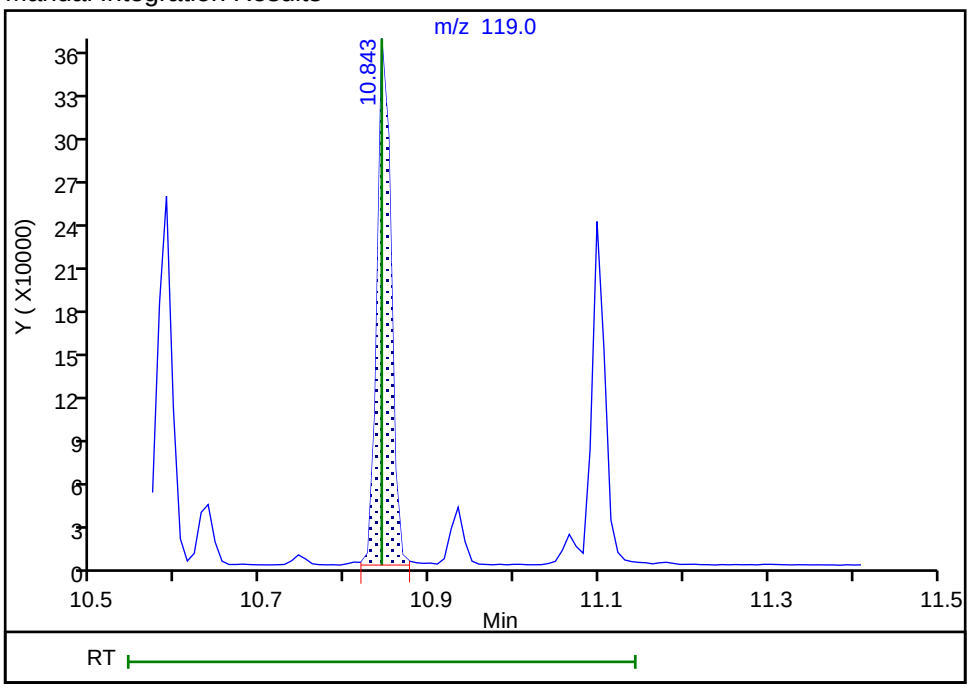
Processing Integration Results

RT: 11.10
Area: 260337
Amount: 22.700136
Amount Units: ug/l



Manual Integration Results

RT: 10.84
Area: 422281
Amount: 22.982314
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:17:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 08-Jul-2018 09:47:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0075068-007
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:18:00 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:16:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.541	-0.008	88	141971	50.0	49.0	
2 Dichlorodifluoromethane	85	1.565	1.574	-0.009	99	322297	50.0	46.1	
3 Chloromethane	50	1.738	1.747	-0.009	98	402640	50.0	47.1	
4 Vinyl chloride	62	1.828	1.837	-0.009	98	402833	50.0	47.2	
5 Butadiene	54	1.828	1.837	-0.009	94	362789	50.0	46.7	
6 Bromomethane	94	2.108	2.116	-0.008	98	268251	50.0	45.5	
7 Chloroethane	64	2.165	2.182	-0.017	100	240980	50.0	47.5	
8 Dichlorofluoromethane	67	2.346	2.355	-0.009	99	559613	50.0	52.0	
10 Pentane	72	2.354	2.363	-0.009	97	86045	100.0	99.7	
9 Trichlorofluoromethane	101	2.363	2.371	-0.009	98	380312	50.0	48.1	
11 Ethanol	46	2.551	2.544	0.007	68	21379	2000.0	1967.3	
12 Ethyl ether	59	2.543	2.552	-0.009	95	176623	50.0	50.1	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	96	195604	50.0	47.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.618	-0.009	95	201129	50.0	47.9	
15 Acrolein	56	2.716	2.724	-0.008	93	24549	100.0	92.5	
16 1,1,2-Trichloro-1,2,2-trif	101	2.740	2.749	-0.009	97	224849	50.0	45.9	
17 1,1-Dichloroethene	96	2.749	2.757	-0.008	98	212440	50.0	46.7	
18 Acetone	43	2.839	2.848	-0.009	89	253164	250.0	283.0	
19 Iodomethane	142	2.905	2.913	-0.008	96	400327	50.0	48.8	
20 Isopropyl alcohol	45	2.929	2.946	-0.017	26	73566	500.0	460.2	
21 Carbon disulfide	76	2.946	2.955	-0.009	99	853831	50.0	46.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	424625	50.0	48.8	
24 Methyl acetate	43	3.069	3.078	-0.009	100	265412	100.0	100.7	
23 Cyclopentene	67	3.077	3.086	-0.009	95	585122	50.0	50.6	
25 Acetonitrile	41	3.135	3.144	-0.009	99	267502	500.0	568.0	a
27 Methylene Chloride	84	3.184	3.193	-0.009	91	266928	50.0	47.7	
* 26 TBA-d9 (IS)	65	3.201	3.193	0.008	0	136658	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.266	3.259	0.007	94	138256	500.0	481.1	
29 Methyl tert-butyl ether	73	3.340	3.349	-0.009	97	651186	50.0	48.3	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	93	251677	50.0	50.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.448	-0.009	95	797034	500.0	530.3	
32 Hexane	43	3.513	3.522	-0.009	91	190970	50.0	46.6	
33 Isopropyl ether	45	3.718	3.727	-0.009	96	778104	50.0	50.5	
34 1,1-Dichloroethane	63	3.759	3.760	-0.001	99	431590	50.0	48.3	
35 Vinyl acetate	86	3.759	3.776	-0.017	100	90865	100.0	105.2	
36 2-Chloro-1,3-butadiene	88	3.800	3.809	-0.009	89	219242	50.0	49.5	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	730944	50.0	50.6	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	156958	250.0	250.0	
39 2,2-Dichloropropane	97	4.252	4.269	-0.017	94	88442	50.0	46.9	
40 cis-1,2-Dichloroethene	96	4.269	4.277	-0.008	98	281551	50.0	49.8	
41 2-Butanone (MEK)	72	4.285	4.286	-0.001	96	101840	250.0	244.8	
42 Ethyl acetate	70	4.285	4.286	-0.001	97	39552	100.0	95.3	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	148390	50.0	48.7	
44 Propionitrile	54	4.417	4.425	-0.008	99	280840	500.0	552.3	
45 Chlorobromomethane	128	4.499	4.499	0.000	89	129441	50.0	49.6	
46 Tetrahydrofuran	72	4.507	4.508	-0.001	55	45338	100.0	97.4	
47 Methacrylonitrile	67	4.515	4.524	-0.009	90	837786	500.0	512.9	
48 Chloroform	83	4.548	4.549	-0.001	99	405786	50.0	50.3	
49 Cyclohexane	84	4.680	4.688	-0.008	90	371058	50.0	49.3	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	98	347317	50.0	48.3	
$ 51 Dibromofluoromethane (Surr	113	4.704	4.705	-0.001	97	98684	50.0	50.4	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	97	288500	50.0	49.4	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	314753	50.0	49.4	
54 Isobutyl alcohol	43	4.992	4.992	0.000	91	289826	1250.0	1253.4	
55 Benzene	78	5.033	5.033	0.000	96	973646	50.0	49.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.049	5.050	-0.001	0	100245	50.0	47.9	
57 Isopropyl acetate	43	5.082	5.083	-0.001	98	598652	50.0	51.9	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	91	780186	50.0	50.8	
59 1,2-Dichloroethane	62	5.123	5.124	-0.001	96	271491	50.0	46.7	
60 n-Heptane	57	5.181	5.181	0.000	89	176244	50.0	50.0	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	393168	50.0	50.0	
62 n-Butanol	56	5.633	5.650	-0.017	86	74557	1250.0	1066.2	
63 Trichloroethene	95	5.666	5.674	-0.008	98	232897	50.0	48.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	551536	50.0	52.4	
64 Methylcyclohexane	83	5.789	5.798	-0.009	88	427028	50.0	50.0	
66 1,2-Dichloropropane	63	5.953	5.962	-0.009	94	247397	50.0	49.3	
* 67 1,4-Dioxane-d8	96	6.027	6.019	0.008	0	13144	1000.0	1000.0	
68 Methyl methacrylate	100	6.027	6.028	-0.001	87	100300	100.0	97.7	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	232351	50.0	49.9	
69 1,4-Dioxane	88	6.077	6.085	-0.008	27	26419	1000.0	1053.0	
71 Dibromomethane	93	6.093	6.093	0.000	94	135812	50.0	47.5	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	300964	50.0	49.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	78	117559	50.0	53.6	
73 2-Nitropropane	41	6.570	6.570	0.000	80	76847	100.0	88.3	
75 Epichlorohydrin	57	6.676	6.685	-0.009	99	346568	1000.0	1102.6	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	357305	50.0	49.7	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.899	-0.009	95	900558	250.0	280.5	
$ 78 Toluene-d8 (Surr)	98	6.972	6.981	-0.009	99	394381	50.0	50.4	
79 Toluene	91	7.054	7.055	-0.001	93	1006532	50.0	50.3	
80 trans-1,3-Dichloropropene	75	7.399	7.408	-0.009	96	289370	50.0	48.2	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	263543	50.0	53.7	
82 1,1,2-Trichloroethane	83	7.621	7.622	-0.001	97	161457	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.662	7.663	-0.001	96	236993	50.0	48.4	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	316304	50.0	50.1	
85 2-Hexanone	43	7.892	7.893	-0.001	95	495888	250.0	256.8	
86 n-Butyl acetate	43	7.999	8.008	-0.009	98	278220	50.0	48.5	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	209847	50.0	48.5	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	98	180408	50.0	49.6	
* 89 Chlorobenzene-d5	117	8.763	8.764	-0.001	84	283921	50.0	50.0	
90 Chlorobenzene	112	8.796	8.797	-0.001	95	627990	50.0	49.8	
91 Ethylbenzene	106	8.895	8.895	0.000	98	363682	50.0	49.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	237090	50.0	49.6	
93 m-Xylene & p-Xylene	106	9.051	9.060	-0.009	0	436228	50.0	50.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	168864	50.0	50.9	
95 o-Xylene	106	9.503	9.503	0.000	95	461789	50.0	51.5	
96 Styrene	104	9.536	9.536	0.000	96	723592	50.0	51.9	
97 Amyl acetate (mixed isomer	43	9.708	9.717	-0.009	91	361611	50.0	49.5	
98 Bromoform	173	9.741	9.742	-0.001	97	134241	50.0	48.4	
99 Isopropylbenzene	105	9.848	9.849	-0.001	95	1150898	50.0	53.4	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	114885	50.0	50.1	
101 Bromobenzene	156	10.144	10.144	0.000	98	280301	50.0	49.2	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	258315	50.0	48.1	
103 N-Propylbenzene	91	10.201	10.202	-0.001	100	1357000	50.0	51.9	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	97	73193	50.0	48.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	81	57460	50.0	46.9	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	927450	50.0	50.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	1143475	50.0	53.1	
108 1,3,5-Trimethylbenzene	105	10.349	10.350	-0.001	94	967312	50.0	50.9	
109 4-Chlorotoluene	91	10.390	10.391	-0.001	97	819475	50.0	50.3	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	348236	50.0	53.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	794229	50.0	51.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	1017023	50.0	52.6	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	1229308	50.0	52.1	
114 4-Isopropyltoluene	119	10.842	10.843	-0.001	98	1052591	50.0	52.8	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	96	555469	50.0	49.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	164965	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	575508	50.0	49.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	1072303	50.0	52.2	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	548852	50.0	53.5	
119 2,3-Dihydroindene	117	11.064	11.065	-0.001	94	1083183	50.0	52.5	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	642482	50.0	52.4	
121 n-Butylbenzene	92	11.114	11.114	0.000	98	574560	50.0	50.5	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	97	571740	50.0	51.1	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	1031262	50.0	53.8	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	95	46130	50.0	46.6	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	447000	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	94	410186	50.0	52.9	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	96	176091	50.0	47.8	
128 Naphthalene	128	12.313	12.314	-0.001	99	924647	50.0	56.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	378094	50.0	50.8	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.8	
S 131 Xylenes, Total	100				0		100.0	101.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
GAS Hi_00262	Amount Added:	5.00	Units: uL	
MIX I Hi_00095	Amount Added:	5.00	Units: uL	
Ethanol mix_00017	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	5.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

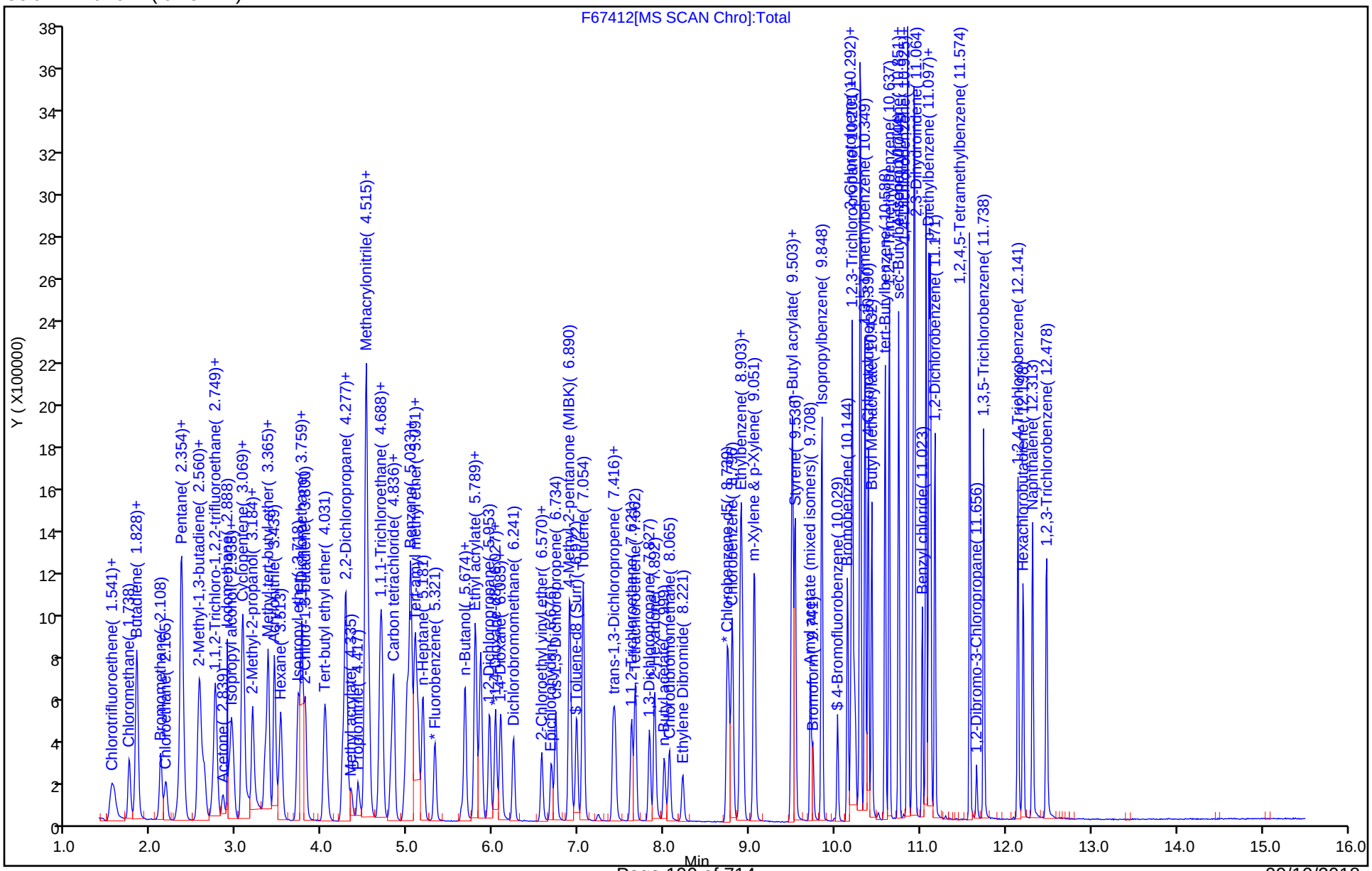
Report Date: 08-Jul-2018 19:18:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D

Injection Date:	08-Jul-2018 09:47:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

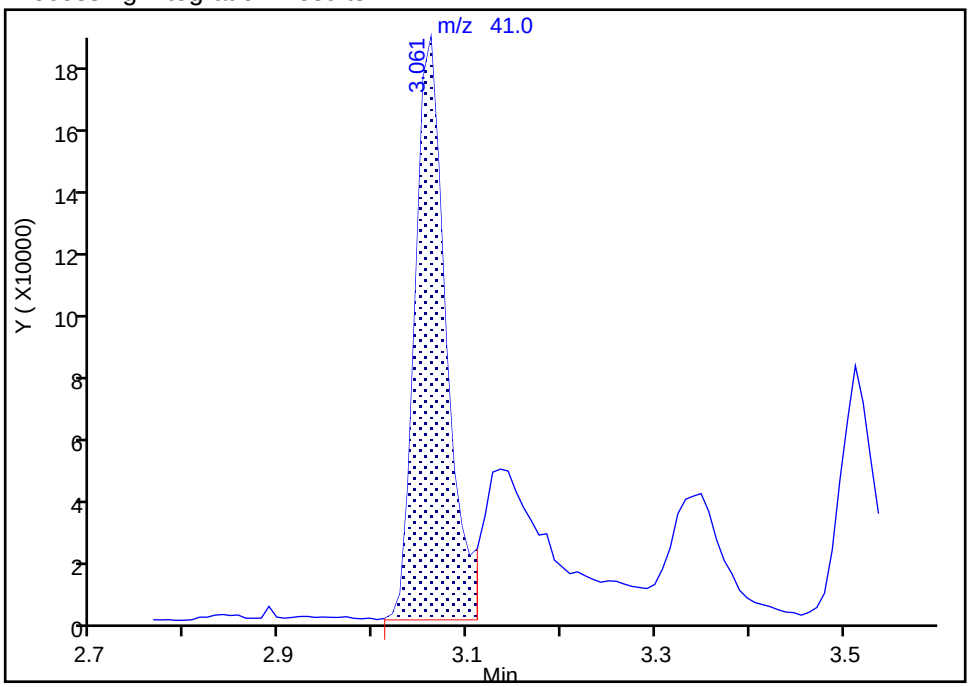
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67412.D
Injection Date: 08-Jul-2018 09:47:30 Instrument ID: CVOAMS6
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

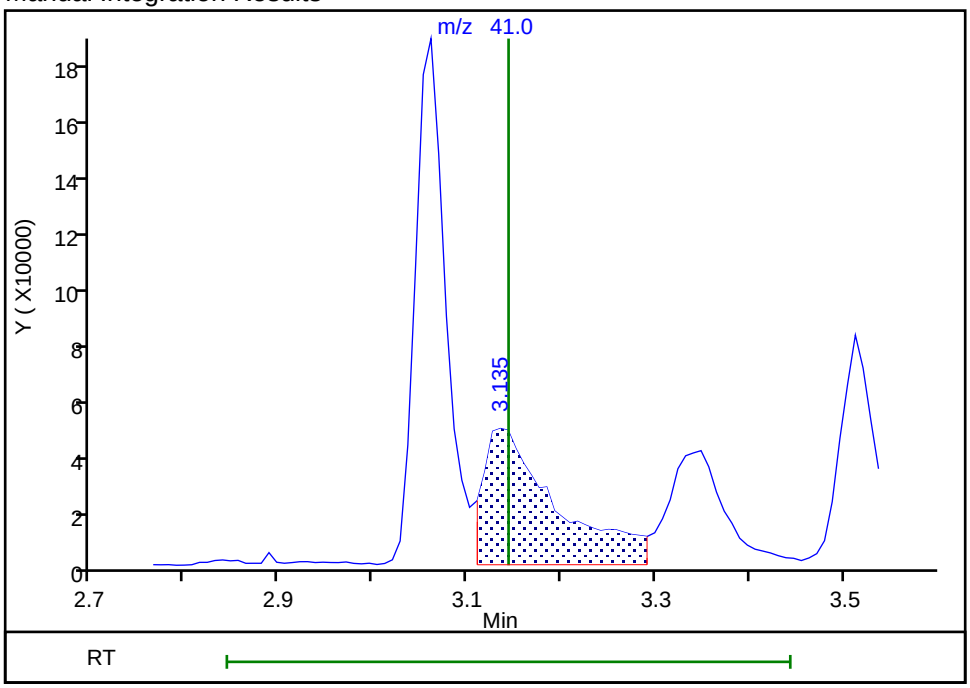
Processing Integration Results

RT: 3.06
Area: 436646
Amount: 503.1977
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 267502
Amount: 567.9606
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:52:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 08-Jul-2018 10:11:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0075068-008
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:02 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	709694	200.0	222.4	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	1693948	200.0	219.8	
3 Chloromethane	50	1.755	1.747	0.008	98	1896409	200.0	201.5	
4 Vinyl chloride	62	1.837	1.837	0.000	97	1926255	200.0	204.8	
5 Butadiene	54	1.837	1.837	0.000	95	1765160	200.0	206.4	
6 Bromomethane	94	2.116	2.116	0.000	99	1241756	200.0	191.0	
7 Chloroethane	64	2.182	2.182	0.000	99	1084123	200.0	194.0	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	99	2202861	200.0	185.7	
10 Pentane	72	2.363	2.363	0.000	97	352397	400.0	369.2	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	99	1659910	200.0	190.6	
11 Ethanol	46	2.544	2.544	0.000	72	88716	8000.0	7381.9	
12 Ethyl ether	59	2.544	2.552	-0.008	94	776872	200.0	199.9	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	818433	200.0	180.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.618	0.000	92	863219	200.0	186.7	
15 Acrolein	56	2.724	2.724	0.000	92	60692	200.0	206.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	1011610	200.0	187.5	
17 1,1-Dichloroethene	96	2.765	2.757	0.008	98	972069	200.0	194.1	
18 Acetone	43	2.839	2.848	-0.009	89	1098210	1000.0	1043.7	
19 Iodomethane	142	2.922	2.913	0.009	97	1740678	200.0	192.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	98	327318	2000.0	1851.6	
21 Carbon disulfide	76	2.954	2.955	-0.001	99	3761206	200.0	187.7	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	99	1861456	200.0	194.2	
24 Methyl acetate	43	3.069	3.078	-0.009	98	1149470	400.0	396.0	
23 Cyclopentene	67	3.086	3.086	0.000	94	2394522	200.0	188.1	
25 Acetonitrile	41	3.135	3.144	-0.009	96	1036510	2000.0	1990.0	a
27 Methylene Chloride	84	3.193	3.193	0.000	91	1151163	200.0	186.7	
* 26 TBA-d9 (IS)	65	3.193	3.193	0.000	0	151129	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.267	3.259	0.008	96	633643	2000.0	1993.9	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	2851896	200.0	192.1	
30 trans-1,2-Dichloroethene	96	3.373	3.374	-0.001	94	1063814	200.0	192.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	95	3392609	2000.0	2048.8	
32 Hexane	43	3.521	3.522	-0.001	91	886813	200.0	196.5	
33 Isopropyl ether	45	3.727	3.727	0.000	96	3269485	200.0	192.7	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	1832242	200.0	186.2	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	393956	400.0	414.2	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	902621	200.0	184.8	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	3116079	200.0	196.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	184601	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.269	-0.008	94	385912	200.0	185.9	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	99	1193877	200.0	191.6	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	494630	1000.0	1011.1	
42 Ethyl acetate	70	4.286	4.286	0.000	95	182512	400.0	373.9	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	703275	200.0	206.2	
44 Propionitrile	54	4.425	4.425	0.000	99	1212845	2000.0	2156.8	
45 Chlorobromomethane	128	4.499	4.499	0.000	88	545825	200.0	189.8	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	71	217035	400.0	400.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	3671286	2000.0	2040.1	
48 Chloroform	83	4.549	4.549	-0.001	99	1703395	200.0	191.6	
49 Cyclohexane	84	4.688	4.688	0.000	90	1659263	200.0	200.0	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	99	1481430	200.0	187.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	95	101418	50.0	47.0	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	1246124	200.0	193.7	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	1366551	200.0	194.9	
54 Isobutyl alcohol	43	5.000	4.992	0.008	93	1374822	5000.0	5376.2	
55 Benzene	78	5.033	5.033	0.000	96	4204764	200.0	189.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	118946	50.0	51.6	
57 Isopropyl acetate	43	5.083	5.083	0.000	97	2552684	200.0	201.1	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	91	3408504	200.0	201.6	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	1168815	200.0	182.5	
60 n-Heptane	57	5.181	5.181	0.000	89	827096	200.0	212.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	433129	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	420980	5000.0	5073.6	
63 Trichloroethene	95	5.674	5.674	0.000	99	1018520	200.0	190.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	2520560	200.0	217.5	
64 Methylcyclohexane	83	5.797	5.798	-0.001	89	1975138	200.0	209.9	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	1087509	200.0	196.7	
* 67 1,4-Dioxane-d8	96	6.028	6.019	0.009	0	18634	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	477153	400.0	418.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	1093852	200.0	213.1	
69 1,4-Dioxane	88	6.077	6.085	-0.008	28	112735	4000.0	3169.6	
71 Dibromomethane	93	6.093	6.093	0.000	97	596905	200.0	189.6	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	1337273	200.0	198.8	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	545482	200.0	225.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	351273	400.0	366.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	1608905	4000.0	4352.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	91	1656751	200.0	205.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	94	4041093	1000.0	1070.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	434144	50.0	49.6	
79 Toluene	91	7.055	7.055	0.000	94	4313597	200.0	192.6	
80 trans-1,3-Dichloropropene	75	7.400	7.408	-0.008	97	1357534	200.0	202.3	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	88	1244261	200.0	226.5	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	729655	200.0	195.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	1048499	200.0	191.6	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	1431570	200.0	202.9	
85 2-Hexanone	43	7.885	7.893	-0.008	94	2420551	1000.0	1055.6	
86 n-Butyl acetate	43	8.000	8.008	-0.008	98	1269986	200.0	196.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	99	952604	200.0	197.0	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	823898	200.0	202.5	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	317540	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	94	2735326	200.0	194.0	
91 Ethylbenzene	106	8.895	8.895	0.000	98	1582697	200.0	194.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	1030138	200.0	192.7	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	1957917	200.0	201.8	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	786020	200.0	210.0	
95 o-Xylene	106	9.503	9.503	0.000	95	2021512	200.0	201.4	
96 Styrene	104	9.536	9.536	0.000	96	3210461	200.0	205.8	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	1680483	200.0	207.8	
98 Bromoform	173	9.742	9.742	0.000	97	622246	200.0	200.8	
99 Isopropylbenzene	105	9.848	9.849	-0.001	96	4847598	200.0	201.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	126322	50.0	49.3	
101 Bromobenzene	156	10.144	10.144	0.000	98	1192585	200.0	190.8	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	1136664	200.0	192.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	5512304	200.0	192.3	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	95	303924	200.0	182.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	91	269249	200.0	198.5	
106 2-Chlorotoluene	91	10.292	10.292	0.000	94	3931428	200.0	194.7	
107 4-Ethyltoluene	105	10.300	10.300	0.000	88	4666273	200.0	197.5	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	95	4161635	200.0	199.8	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	3472777	200.0	194.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	1621447	200.0	211.5	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	3537058	200.0	210.6	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	4244360	200.0	200.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	97	5255599	200.0	203.1	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	96	4526133	200.0	207.1	
115 1,3-Dichlorobenzene	146	10.851	10.859	-0.008	95	2369298	200.0	193.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	93	180897	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	93	2386982	200.0	188.9	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	4429798	200.0	196.8	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	2408788	200.0	214.1	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	4322939	200.0	191.0	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	93	2565032	200.0	190.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	100	2490143	200.0	199.8	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	2314674	200.0	188.6	
123 1,2,4,5-Tetramethylbenzene	119	11.574	11.574	0.000	98	4209686	200.0	200.5	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	210427	200.0	193.8	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	97	1794877	200.0	187.6	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	1729926	200.0	203.3	
127 Hexachlorobutadiene	225	12.198	12.199	-0.001	95	780509	200.0	193.4	
128 Naphthalene	128	12.313	12.314	-0.001	99	3874891	200.0	215.2	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	1551295	200.0	190.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	383.7	
S 131 Xylenes, Total	100				0		400.0	403.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	20.00	Units: uL	
GAS Hi_00262	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
Ethanol mix_00017	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	20.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:05 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D

Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6 Operator ID:

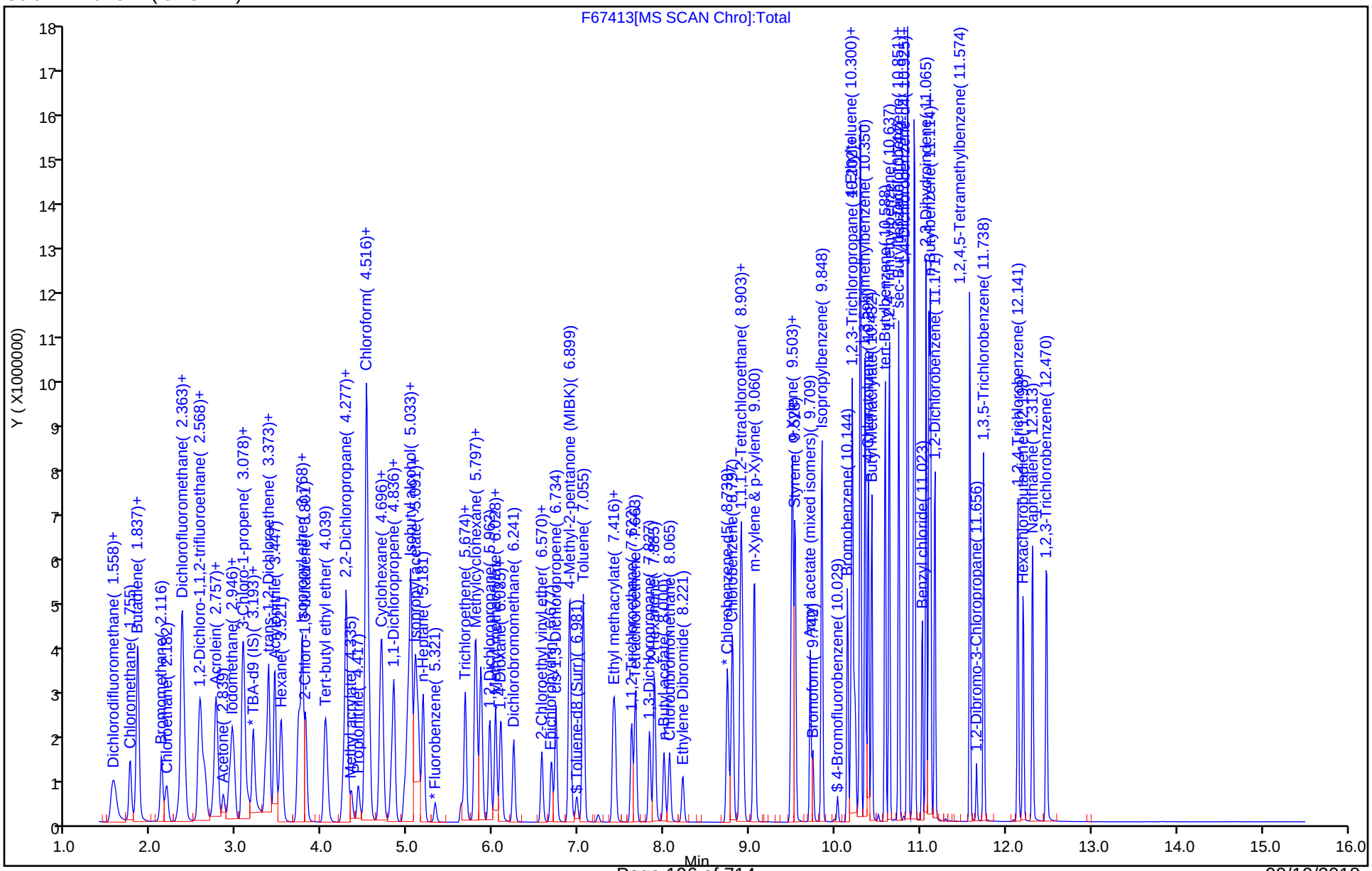
Lims ID: STD200 Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 7

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

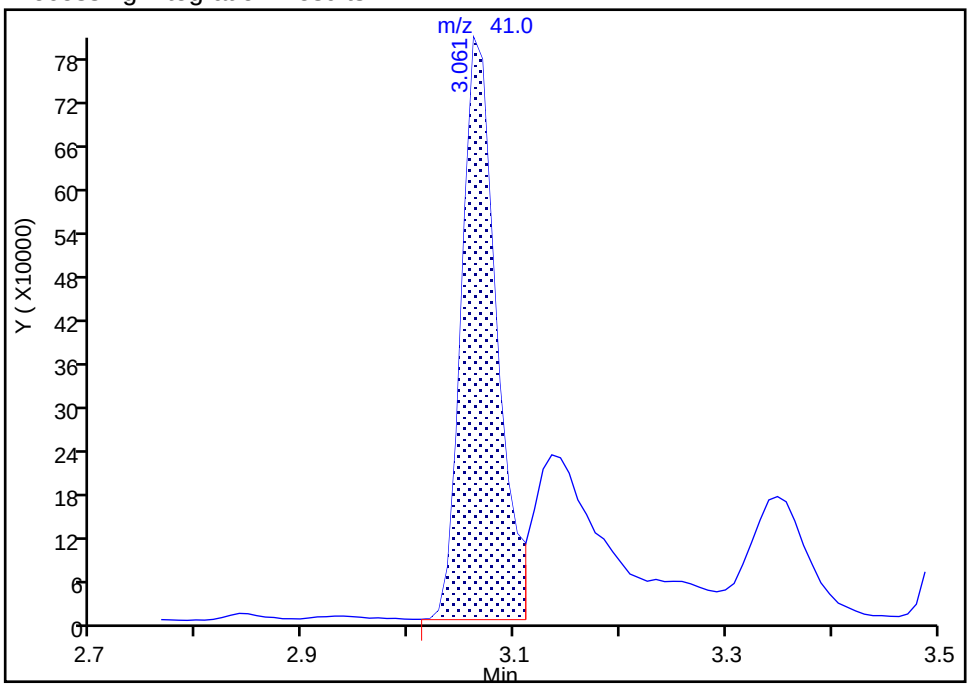
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

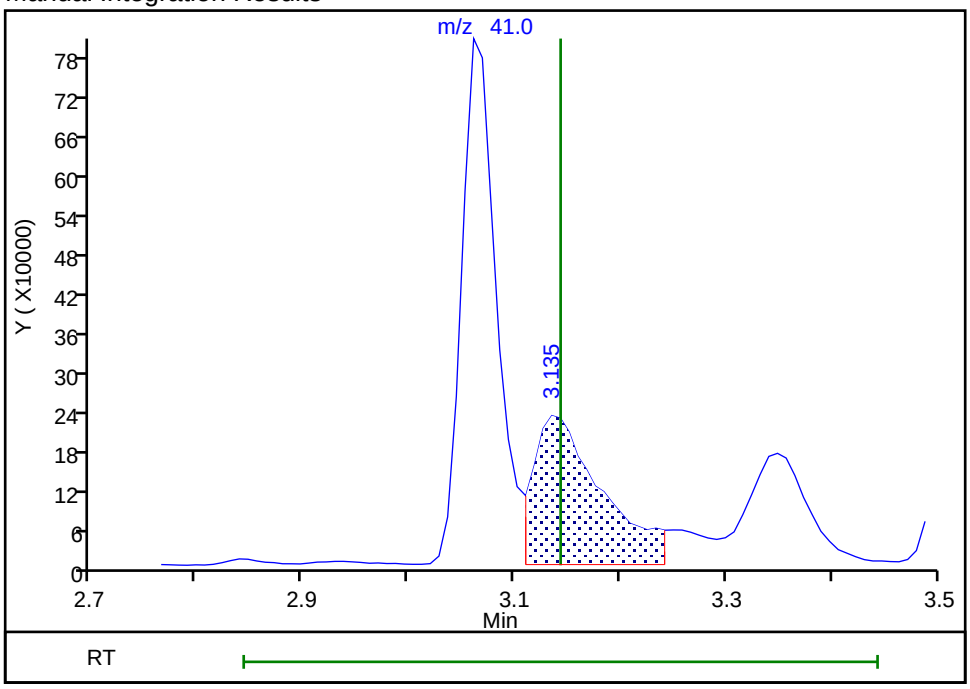
Processing Integration Results

RT: 3.06
Area: 1855304
Amount: 2081.1534
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 1036510
Amount: 1989.9948
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:54:55
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

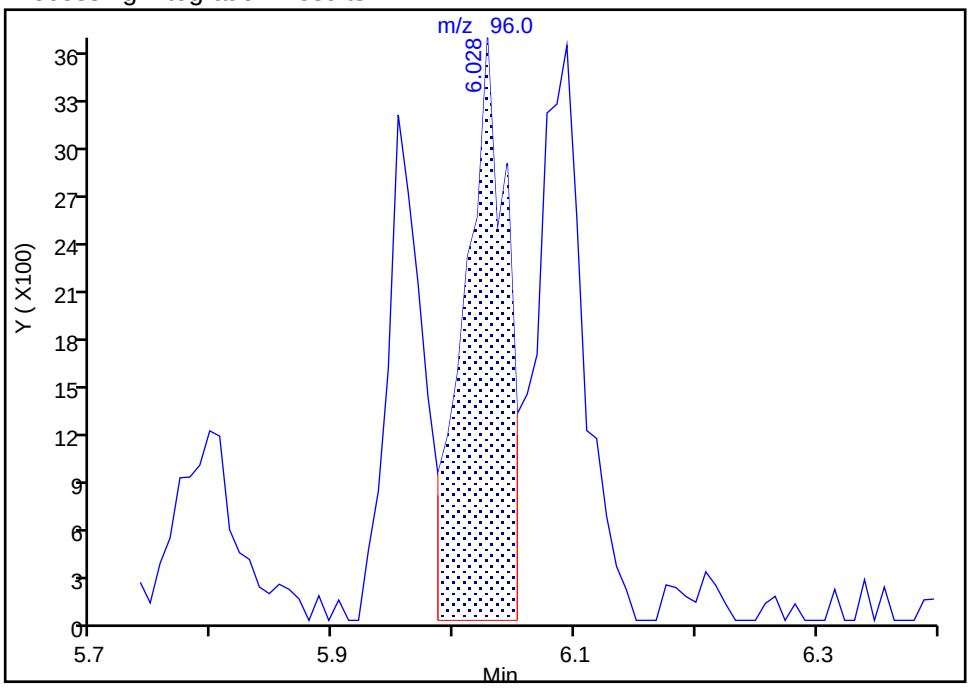
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67413.D
Injection Date: 08-Jul-2018 10:11:30 Instrument ID: CVOAMS6
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

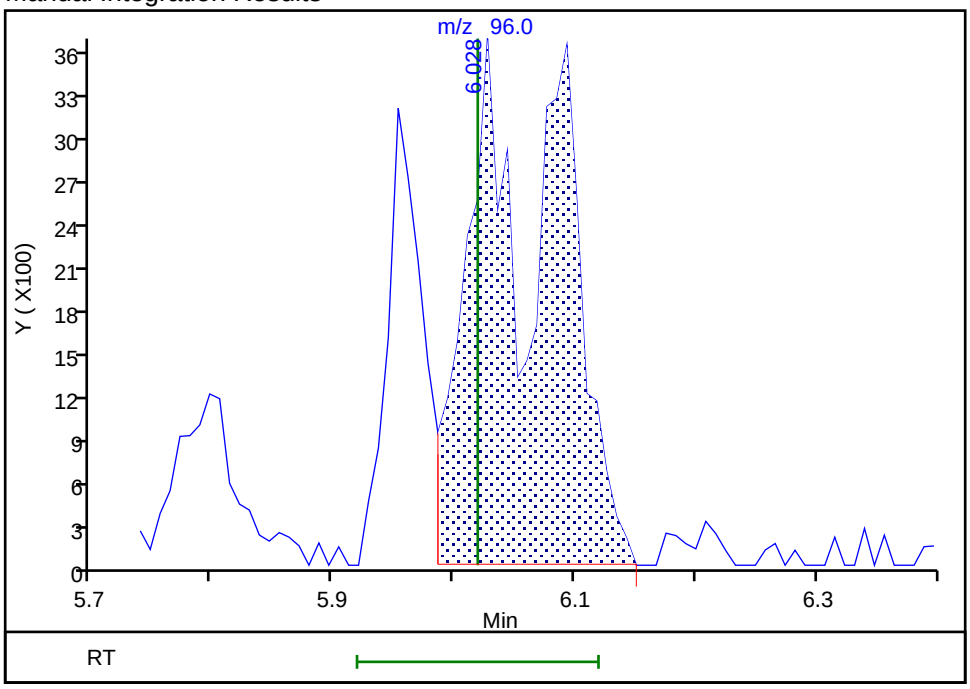
Processing Integration Results

RT: 6.03
Area: 9242
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.03
Area: 18634
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 17:56:38
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 08-Jul-2018 10:34:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0075068-009
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 19:12:16 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

First Level Reviewer: boykink Date: 08-Jul-2018 11:18:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.541	0.000	88	1936409	500.0	569.7	
2 Dichlorodifluoromethane	85	1.574	1.574	0.000	99	4408691	500.0	537.2	
3 Chloromethane	50	1.747	1.747	0.000	98	4846961	500.0	483.5	
5 Butadiene	54	1.837	1.837	0.000	96	4620836	500.0	507.4	
4 Vinyl chloride	62	1.837	1.837	0.000	98	4953087	500.0	494.5	
6 Bromomethane	94	2.116	2.116	0.000	99	3175435	500.0	458.6	
7 Chloroethane	64	2.182	2.182	0.000	99	2820281	500.0	473.8	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	5736092	500.0	454.0	
10 Pentane	72	2.371	2.363	0.008	96	1096295	1000.0	974.5	
9 Trichlorofluoromethane	101	2.371	2.371	0.000	98	4430449	500.0	477.6	
11 Ethanol	46	2.552	2.544	0.008	85	294889	20000	20821	
12 Ethyl ether	59	2.544	2.552	-0.008	94	2046129	500.0	494.5	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	2438118	500.0	506.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.618	0.008	91	2314842	500.0	470.1	
15 Acrolein	56	2.724	2.724	0.000	91	167400	400.0	483.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	2805995	500.0	488.4	
17 1,1-Dichloroethene	96	2.774	2.757	0.017	98	2684576	500.0	503.3	
18 Acetone	43	2.839	2.848	-0.009	89	2964336	2500.0	2357.7	
19 Iodomethane	142	2.922	2.913	0.009	97	4521161	500.0	469.6	
20 Isopropyl alcohol	45	2.938	2.946	-0.008	96	1092262	5000.0	5243.0	
21 Carbon disulfide	76	2.963	2.955	0.008	99	9931387	500.0	465.3	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	97	4802050	500.0	470.5	
24 Methyl acetate	43	3.069	3.078	-0.009	99	3098846	1000.0	1002.5	
23 Cyclopentene	67	3.086	3.086	0.000	94	6754156	500.0	498.3	
25 Acetonitrile	41	3.135	3.144	-0.009	96	3119121	5000.0	5081.4	a
* 26 TBA-d9 (IS)	65	3.209	3.193	0.016	0	178105	1000.0	1000.0	
27 Methylene Chloride	84	3.193	3.193	0.000	91	3042833	500.0	463.4	
28 2-Methyl-2-propanol	59	3.275	3.259	0.016	98	1943662	5000.0	5189.7	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	98	7468949	500.0	472.5	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	94	2764093	500.0	468.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.447	3.448	-0.001	94	8608034	5000.0	4881.2	
32 Hexane	43	3.521	3.522	-0.001	91	2425866	500.0	504.7	
33 Isopropyl ether	45	3.727	3.727	0.000	95	8637675	500.0	477.9	
34 1,1-Dichloroethane	63	3.768	3.760	0.008	100	4763691	500.0	454.5	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	1066727	1000.0	1053.0	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	89	2504213	500.0	481.5	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	90	8249314	500.0	487.2	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	220581	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.269	0.000	95	1041602	500.0	471.0	
40 cis-1,2-Dichloroethene	96	4.277	4.277	0.000	97	3137762	500.0	472.8	
42 Ethyl acetate	70	4.286	4.286	0.000	95	506767	1000.0	868.8	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	1328915	2500.0	2273.5	
43 Methyl acrylate	55	4.343	4.351	-0.008	100	1967582	500.0	528.9	
44 Propionitrile	54	4.425	4.425	0.000	99	3294672	5000.0	4971.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	1429859	500.0	467.0	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	83	612177	1000.0	946.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	88	9385838	5000.0	4897.2	
48 Chloroform	83	4.549	4.549	0.000	99	4430844	500.0	468.0	
49 Cyclohexane	84	4.688	4.688	0.000	90	4618908	500.0	522.8	
50 1,1,1-Trichloroethane	97	4.705	4.697	0.008	99	3942526	500.0	467.3	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	107167	50.0	46.6	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	3319730	500.0	484.5	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	3656797	500.0	489.6	
54 Isobutyl alcohol	43	4.968	4.992	-0.024	93	4113074	12500	13648	
55 Benzene	78	5.042	5.033	0.009	98	10481196	500.0	433.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	137011	50.0	55.8	M
57 Isopropyl acetate	43	5.083	5.083	0.000	96	7060860	500.0	522.2	
58 Tert-amyl methyl ether	73	5.099	5.091	0.008	92	9059390	500.0	503.0	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	94	3106032	500.0	455.3	
60 n-Heptane	57	5.181	5.181	0.000	90	2200144	500.0	531.9	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	461281	50.0	50.0	
62 n-Butanol	56	5.625	5.650	-0.025	85	1375300	12500	12492	
63 Trichloroethene	95	5.674	5.674	0.000	99	2697116	500.0	474.4	
65 Ethyl acrylate	55	5.789	5.789	0.000	99	6886192	500.0	557.8	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	5356346	500.0	534.5	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	2911396	500.0	494.3	
* 67 1,4-Dioxane-d8	96	6.093	6.019	0.074	0	30893	1000.0	1000.0	M
68 Methyl methacrylate	100	6.028	6.028	0.000	86	1294397	1000.0	1064.7	
69 1,4-Dioxane	88	6.077	6.085	-0.008	59	350276	10000	5940.2	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	3100296	500.0	567.0	
71 Dibromomethane	93	6.093	6.093	0.000	98	1590260	500.0	474.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	3528767	500.0	492.7	
73 2-Nitropropane	41	6.570	6.570	0.000	78	1004773	1000.0	983.5	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	79	1542778	500.0	599.3	
75 Epichlorohydrin	57	6.685	6.685	0.000	98	4369507	10000	9891.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	4389929	500.0	500.3	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	93	10225528	2500.0	2266.6	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	98	462865	50.0	48.5	
79 Toluene	91	7.055	7.055	0.000	96	10589556	500.0	433.5	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	98	3702694	500.0	506.0	
81 Ethyl methacrylate	69	7.424	7.433	-0.009	91	3351463	500.0	559.4	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	1972178	500.0	484.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	2773903	500.0	464.7	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	92	3834334	500.0	498.2	
85 2-Hexanone	43	7.885	7.893	-0.008	93	6479984	2500.0	2360.9	
86 n-Butyl acetate	43	8.000	8.008	-0.008	97	3587927	500.0	507.1	
87 Chlorodibromomethane	129	8.065	8.065	0.000	98	2528593	500.0	479.6	
88 Ethylene Dibromide	107	8.221	8.222	-0.001	99	2180576	500.0	491.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	346290	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	92	7124946	500.0	463.3	
91 Ethylbenzene	106	8.903	8.895	0.008	98	4228207	500.0	476.0	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	2693250	500.0	461.9	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	5166108	500.0	488.2	
94 n-Butyl acrylate	73	9.487	9.487	0.000	99	2237636	500.0	547.3	
95 o-Xylene	106	9.503	9.503	0.000	97	5253468	500.0	480.0	
96 Styrene	104	9.536	9.536	0.000	92	8069972	500.0	474.5	
97 Amyl acetate (mixed isomer	43	9.709	9.717	-0.008	92	4681947	500.0	553.7	
98 Bromoform	173	9.742	9.742	0.000	96	1611171	500.0	476.7	
99 Isopropylbenzene	105	9.848	9.849	-0.001	97	10861682	500.0	413.0	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	90	133441	50.0	47.7	
101 Bromobenzene	156	10.144	10.144	0.000	98	3103431	500.0	475.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	3010711	500.0	489.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	96	11612551	500.0	388.2	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	96	816999	500.0	470.8	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	90	755508	500.0	532.6	
106 2-Chlorotoluene	91	10.300	10.292	0.008	95	9240017	500.0	438.4	
107 4-Ethyltoluene	105	10.300	10.300	0.000	81	10708126	500.0	434.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	96	9326055	500.0	429.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	8235664	500.0	441.7	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	4294317	500.0	488.2	
111 tert-Butylbenzene	119	10.588	10.588	0.000	88	8175185	500.0	466.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	94	9287375	500.0	420.0	
113 sec-Butylbenzene	105	10.744	10.744	0.000	91	10654597	500.0	394.6	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	90	9632021	500.0	422.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	92	5898093	500.0	461.0	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	92	188821	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	90	5867301	500.0	444.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	92	9624666	500.0	409.6	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	5889342	500.0	501.5	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	9159299	500.0	387.7	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	6378237	500.0	454.1	
121 n-Butylbenzene	92	11.114	11.114	0.000	94	6134003	500.0	471.4	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	91	5574171	500.0	435.0	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.574	0.008	93	8853963	500.0	403.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	97	553314	500.0	488.3	
125 1,3,5-Trichlorobenzene	180	11.738	11.738	0.000	96	4475172	500.0	448.0	
126 1,2,4-Trichlorobenzene	180	12.141	12.141	0.000	95	4218831	500.0	474.9	
127 Hexachlorobutadiene	225	12.207	12.199	0.008	95	1941946	500.0	461.0	
128 Naphthalene	128	12.314	12.314	0.000	96	8593464	500.0	457.1	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	3769448	500.0	442.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	941.5	
S 131 Xylenes, Total	100				0		1000.0	968.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	40.00	Units: uL	
GAS Hi_00262	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
Ethanol mix_00017	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	50.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 08-Jul-2018 19:12:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6 Operator ID:

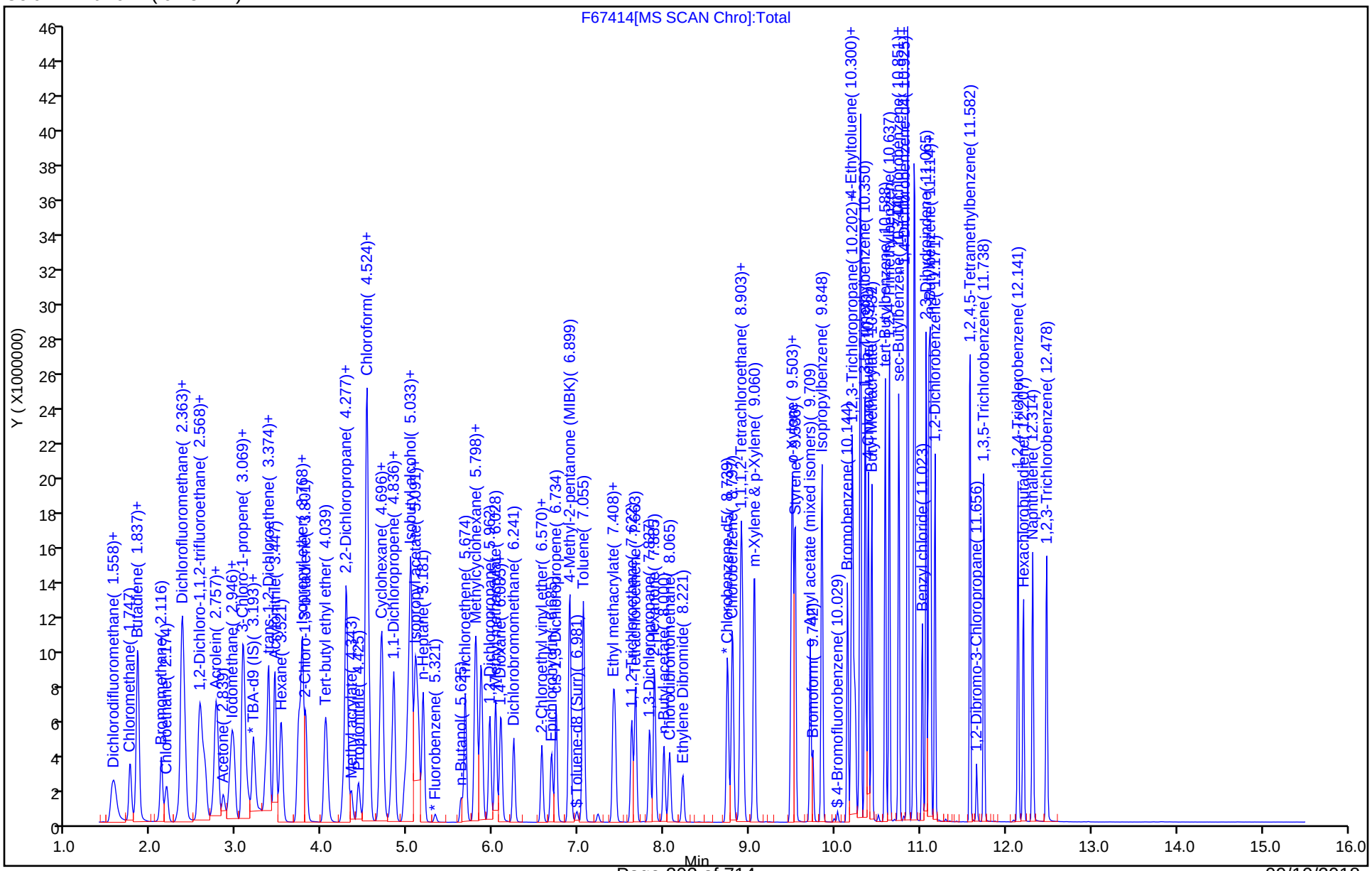
Lims ID: STD500 Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 8

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

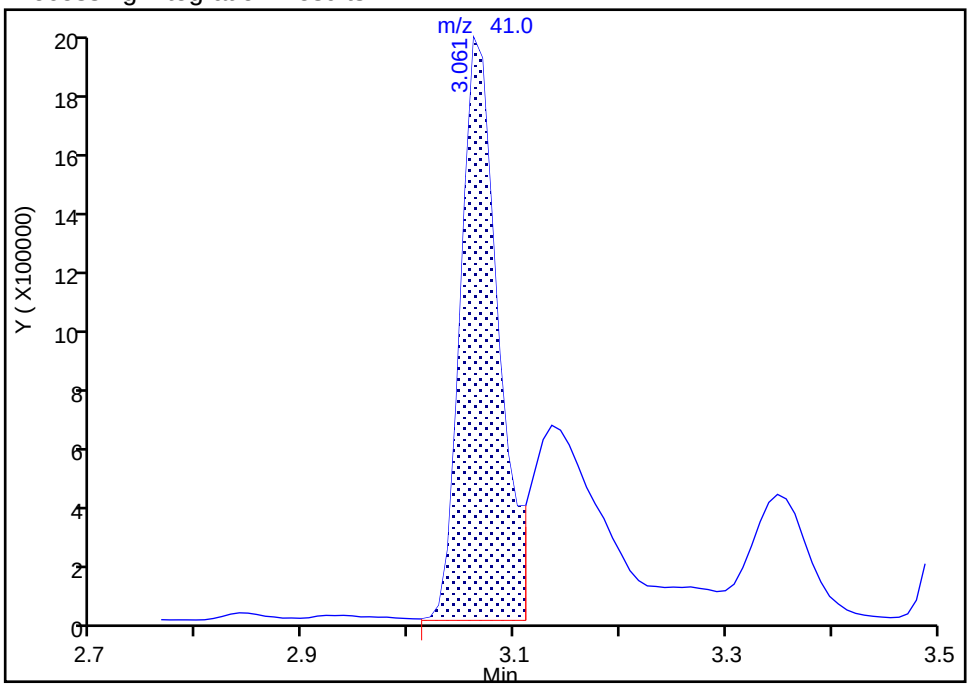
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

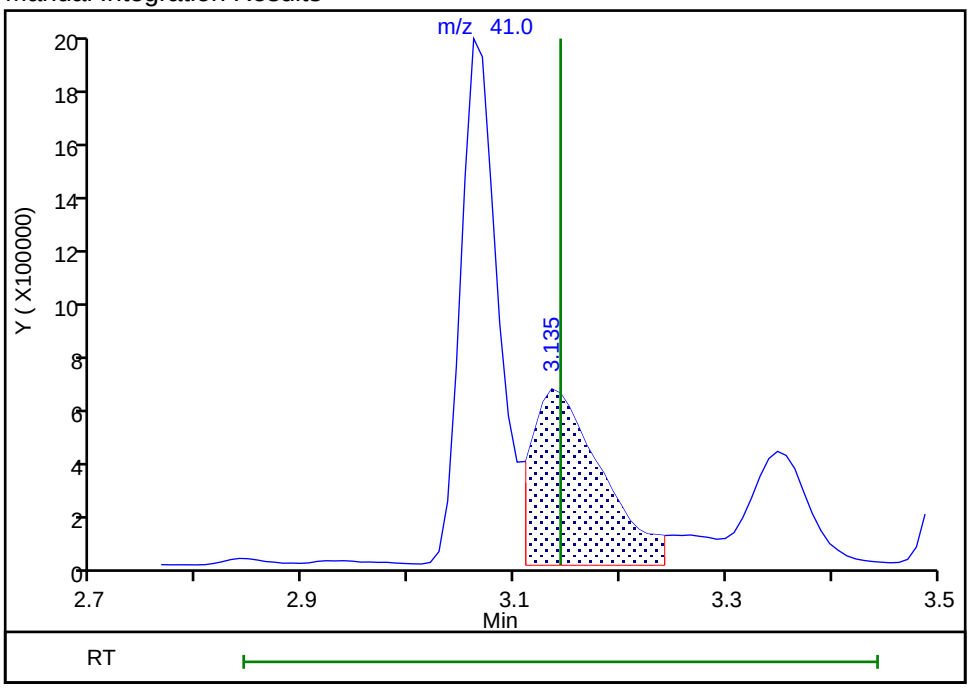
Processing Integration Results

RT: 3.06
Area: 4996979
Amount: 5004.7837
Amount Units: ug/l



Manual Integration Results

RT: 3.14
Area: 3119121
Amount: 5081.3882
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:00:21
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

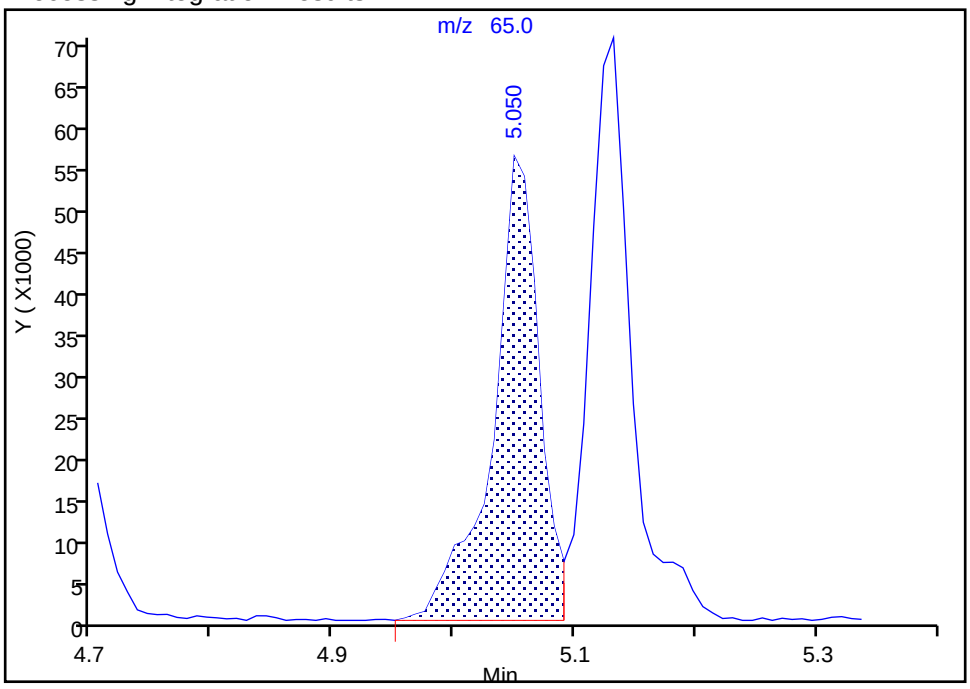
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

$ 56 1,2-Dichloroethane-d4 (Surr), CAS: 17060-07-0

Signal: 1

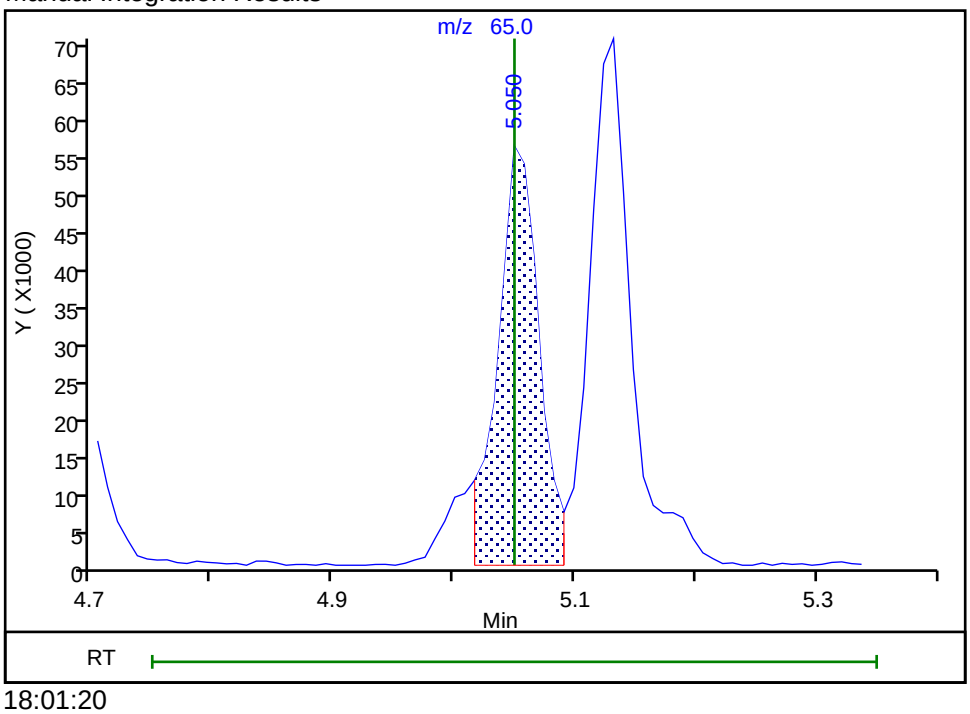
Processing Integration Results

RT: 5.05
Area: 151985
Amount: 60.834141
Amount Units: ug/l



Manual Integration Results

RT: 5.05
Area: 137011
Amount: 55.796062
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:20
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

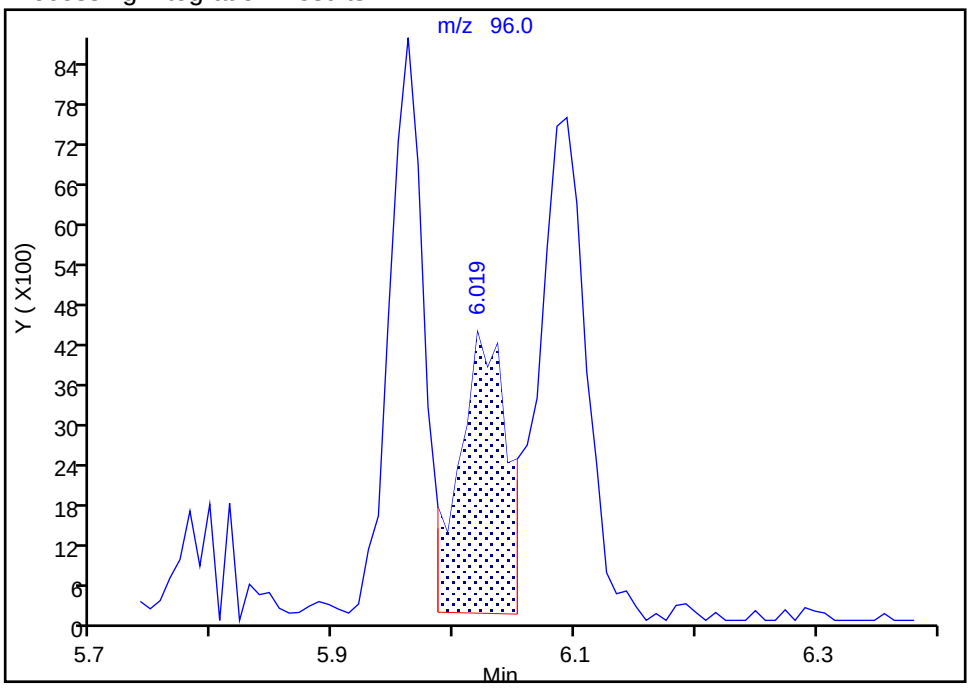
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D
Injection Date: 08-Jul-2018 10:34:30 Instrument ID: CVOAMS6
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 67 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

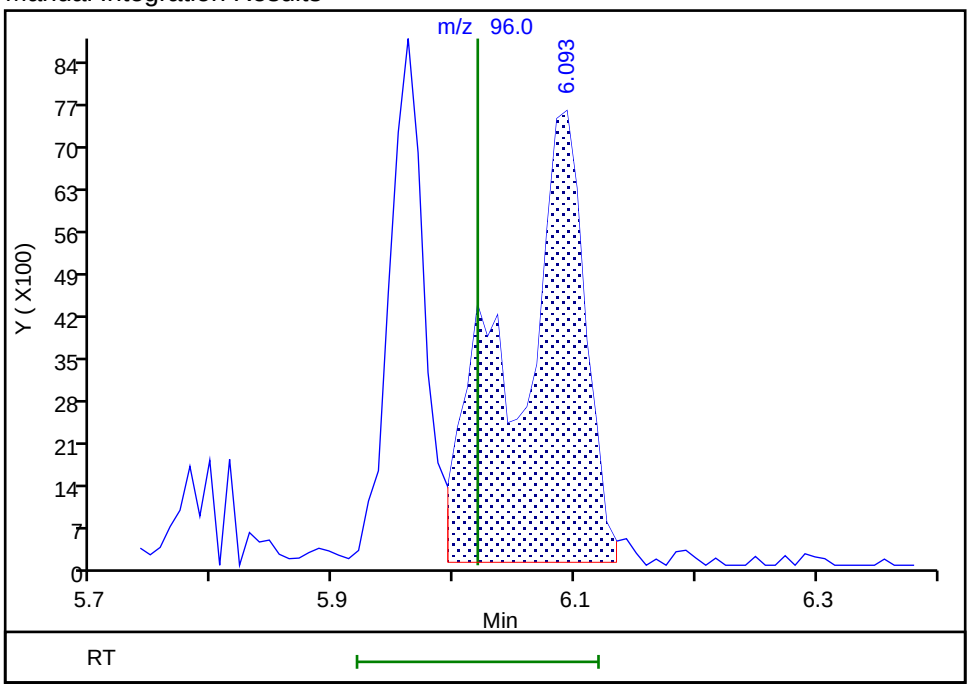
Processing Integration Results

RT: 6.02
Area: 11978
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 6.09
Area: 30893
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 08-Jul-2018 18:01:02
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.3823		20.8	20.0	3.8	20.0
Dichlorodifluoromethane	Ave	0.8896	0.9699	0.1000	21.8	20.0	9.0	20.0
Chloromethane	Ave	1.087	1.178	0.1000	21.7	20.0	8.4	20.0
Butadiene	Ave	0.9872	1.066		21.6	20.0	8.0	20.0
Vinyl chloride	Ave	1.086	1.188	0.1000	21.9	20.0	9.5	20.0
Bromomethane	Ave	0.7505	0.7958	0.1000	21.2	20.0	6.0	50.0
Chloroethane	Ave	0.6452	0.6836	0.1000	21.2	20.0	5.9	50.0
Dichlorofluoromethane	Ave	1.369	1.481		21.6	20.0	8.1	20.0
Pentane	Ave	6.316	6.194		39.2	40.0	-1.9	20.0
Trichlorofluoromethane	Ave	1.006	1.035	0.1000	20.6	20.0	3.0	20.0
Ethanol	Ave	0.0795	0.0918		923	800	15.4	50.0
Ethyl ether	Ave	0.4485	0.4702		21.0	20.0	4.8	20.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.5297		20.3	20.0	1.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.5412		20.3	20.0	1.4	20.0
Acrolein	Ave	1.943	1.236		25.4	40.0	-36.4	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.6227	0.6319	0.1000	20.3	20.0	1.5	20.0
1,1-Dichloroethene	Ave	0.5782	0.5827	0.1000	20.2	20.0	0.8	20.0
Acetone	Ave	1.425	1.571	0.0500	110	100	10.3	50.0
Iodomethane	Ave	1.044	1.071		20.5	20.0	2.6	20.0
Isopropyl alcohol	Ave	1.170	1.316		225	200	12.5	50.0
Carbon disulfide	Ave	2.314	2.325	0.1000	20.1	20.0	0.5	50.0
Allyl chloride	Ave	1.106	1.116		20.2	20.0	0.9	20.0
Methyl acetate	Ave	0.3351	0.3759	0.1000	44.9	40.0	12.2	20.0
Cyclopentene	Ave	1.469	1.556		21.2	20.0	5.9	20.0
Acetonitrile	Ave	3.446	3.937		228	200	14.2	20.0
Methylene Chloride	Ave	0.7118	0.7157	0.1000	20.1	20.0	0.5	20.0
2-Methyl-2-propanol	Ave	2.103	2.943		280	200	39.9	50.0
Methyl tert-butyl ether	Ave	1.713	1.794	0.1000	20.9	20.0	4.7	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6614	0.1000	20.7	20.0	3.5	20.0
Acrylonitrile	Ave	0.1912	0.2201		230	200	15.2	20.0
Hexane	Ave	0.5210	0.5339		20.5	20.0	2.5	20.0
Isopropyl ether	Ave	1.959	2.049		20.9	20.0	4.6	20.0
1,1-Dichloroethane	Ave	1.136	1.195	0.2000	21.0	20.0	5.2	20.0
Vinyl acetate	Ave	0.1098	0.1127		41.1	40.0	2.7	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5430		19.3	20.0	-3.7	20.0
Tert-butyl ethyl ether	Ave	1.835	1.916		20.9	20.0	4.4	20.0
2,2-Dichloropropane	Ave	0.2397	0.2460		20.5	20.0	2.6	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7337	0.1000	20.4	20.0	2.0	20.0
2-Butanone (MEK)	Ave	0.6625	0.6492	0.0500	98.0	100	-2.0	50.0
Ethyl acetate	Ave	0.6611	0.6033		36.5	40.0	-8.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.5952		22.2	20.0	10.8	20.0
Propionitrile	Ave	3.721	3.961		213	200	6.5	20.0
Chlorobromomethane	Ave	0.3319	0.3375		20.3	20.0	1.7	20.0
Tetrahydrofuran	Lin2		0.7810		41.4	40.0	3.6	20.0
Methacrylonitrile	Ave	0.2077	0.2233		215	200	7.5	20.0
Chloroform	Ave	1.026	1.082	0.2000	21.1	20.0	5.5	20.0
Cyclohexane	Ave	0.9576	0.9688	0.1000	20.2	20.0	1.2	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.9068	0.1000	19.8	20.0	-0.8	20.0
Carbon tetrachloride	Ave	0.7427	0.7602	0.1000	20.5	20.0	2.4	20.0
1,1-Dichloropropene	Ave	0.8095	0.8454		20.9	20.0	4.4	20.0
Isobutyl alcohol	Ave	1.692	1.689		499	500	-0.2	50.0
Benzene	Ave	3.489	3.763	0.5000	21.6	20.0	7.9	20.0
Isopropyl acetate	Ave	1.466	1.592		21.7	20.0	8.6	20.0
Tert-amyl methyl ether	Ave	1.952	2.115		21.7	20.0	8.3	20.0
1,2-Dichloroethane	Ave	0.7395	0.7221	0.1000	19.5	20.0	-2.4	20.0
n-Heptane	Ave	0.4484	0.4790		21.4	20.0	6.8	20.0
n-Butanol	QuaF		0.3815		378	500	-24.5	50.0
Trichloroethene	Ave	0.6162	0.6394	0.2000	20.8	20.0	3.8	20.0
Ethyl acrylate	Ave	1.338	1.433		21.4	20.0	7.1	20.0
Methylcyclohexane	Ave	1.086	1.149	0.1000	21.1	20.0	5.7	50.0
1,2-Dichloropropane	Ave	0.6384	0.6435	0.1000	20.2	20.0	0.8	20.0
Methyl methacrylate	Lin2		0.1339		41.6	40.0	3.9	20.0
Dibromomethane	Ave	0.3635	0.3524		19.4	20.0	-3.1	20.0
n-Propyl acetate	Ave	0.5927	0.6178		20.8	20.0	4.2	20.0
1,4-Dioxane	Ave	1.909	2.151		451	400	12.7	50.0
Bromodichloromethane	Ave	0.7764	0.7817	0.2000	20.1	20.0	0.7	20.0
2-Nitropropane	Ave	0.1107	0.0986		35.6	40.0	-10.9	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.2792		20.0	20.0	0.0	20.0
Epichlorohydrin	Ave	0.5007	0.4973		397	400	-0.7	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.275	0.2000	20.1	20.0	0.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.270	0.0500	103	100	3.1	50.0
Toluene	Ave	3.527	3.715	0.4000	21.1	20.0	5.3	20.0
trans-1,3-Dichloropropene	Ave	1.057	1.025	0.1000	19.4	20.0	-3.0	50.0
Ethyl methacrylate	Ave	0.8650	0.9611		22.2	20.0	11.1	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.6026	0.1000	20.5	20.0	2.6	20.0
Tetrachloroethene	Ave	0.8618	0.8846	0.2000	20.5	20.0	2.6	20.0
1,3-Dichloropropane	Ave	1.111	1.160		20.9	20.0	4.4	20.0
2-Hexanone	Lin2		2.830	0.0500	94.1	100	-5.9	50.0
n-Butyl acetate	Lin2		1.067		21.5	20.0	7.4	20.0
Dibromochloromethane	Ave	0.7612	0.7770	0.1000	20.4	20.0	2.1	50.0
1,2-Dibromoethane	Ave	0.6407	0.6505	0.1000	20.3	20.0	1.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.304	0.5000	20.7	20.0	3.7	20.0
Ethylbenzene	Ave	1.283	1.301	0.1000	20.3	20.0	1.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.8822		21.0	20.0	4.8	20.0
m-Xylene & p-Xylene	Ave	1.528	1.600	0.1000	20.9	20.0	4.7	20.0
n-Butyl acrylate	Lin2		0.5745		20.0	20.0	-0.0	20.0
o-Xylene	Ave	1.580	1.692	0.3000	21.4	20.0	7.0	20.0
Styrene	Ave	2.456	2.591	0.3000	21.1	20.0	5.5	20.0
Bromoform	Ave	0.4880	0.4853	0.1000	19.9	20.0	-0.6	20.0
Isopropylbenzene	Ave	3.798	4.285	0.1000	22.6	20.0	12.8	20.0
Bromobenzene	Ave	1.728	1.827		21.2	20.0	5.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.787	0.3000	21.9	20.0	9.7	20.0
N-Propylbenzene	Ave	7.921	8.803		22.2	20.0	11.1	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4830		21.0	20.0	5.1	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.3785		20.7	20.0	3.7	20.0
2-Chlorotoluene	Ave	5.582	5.946		21.3	20.0	6.5	20.0
4-Ethyltoluene	Ave	6.531	7.411		22.7	20.0	13.5	20.0
1,3,5-Trimethylbenzene	Ave	5.756	6.368		22.1	20.0	10.6	20.0
4-Chlorotoluene	Ave	4.937	5.331		21.6	20.0	8.0	20.0
Butyl Methacrylate	Qua2		2.010		20.7	20.0	3.6	20.0
tert-Butylbenzene	Ave	4.643	4.932		21.2	20.0	6.2	20.0
1,2,4-Trimethylbenzene	Ave	5.856	6.519		22.3	20.0	11.3	20.0
sec-Butylbenzene	Ave	7.151	8.031		22.5	20.0	12.3	20.0
4-Isopropyltoluene	Ave	6.041	6.861		22.7	20.0	13.6	20.0
1,3-Dichlorobenzene	Ave	3.388	3.626	0.6000	21.4	20.0	7.0	20.0
1,4-Dichlorobenzene	Ave	3.493	3.813	0.5000	21.8	20.0	9.2	20.0
1,2,3-Trimethylbenzene	Ave	6.222	6.845		22.0	20.0	10.0	20.0
Benzyl chloride	Ave	3.109	3.490		22.4	20.0	12.2	50.0
Indan	Ave	6.256	6.794		21.7	20.0	8.6	20.0
p-Diethylbenzene	Ave	3.719	4.237		22.8	20.0	13.9	20.0
n-Butylbenzene	Ave	3.445	3.810		22.1	20.0	10.6	20.0
1,2-Dichlorobenzene	Ave	3.393	3.674	0.4000	21.7	20.0	8.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	6.444		22.2	20.0	11.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.2783	0.0500	18.5	20.0	-7.3	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.823		21.3	20.0	6.7	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.532	0.2000	21.5	20.0	7.6	20.0
Hexachlorobutadiene	Ave	1.115	1.094		19.6	20.0	-1.9	20.0
Naphthalene	Ave	4.978	5.886		23.7	20.0	18.3	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.450		21.7	20.0	8.6	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2573		51.6	50.0	3.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2723		51.1	50.0	2.3	20.0
Toluene-d8 (Surr)	Ave	1.378	1.375		49.9	50.0	-0.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534740/3 Calibration Date: 07/09/2018 18:27

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67494.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4036	0.4059		50.3	50.0	0.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 09-Jul-2018 18:27:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075142-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 18:52:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	87	57613	20.0	20.8	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	146153	20.0	21.8	
3 Chloromethane	50	1.738	1.738	0.000	99	177511	20.0	21.7	
5 Butadiene	54	1.829	1.829	0.000	94	160667	20.0	21.6	
4 Vinyl chloride	62	1.829	1.829	0.000	98	179076	20.0	21.9	
6 Bromomethane	94	2.108	2.108	0.000	98	119909	20.0	21.2	
7 Chloroethane	64	2.166	2.166	0.000	99	103002	20.0	21.2	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	99	223132	20.0	21.6	
10 Pentane	72	2.355	2.355	0.000	96	34057	40.0	39.2	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	64	156029	20.0	20.6	
11 Ethanol	46	2.535	2.535	0.000	77	10094	800.0	923.5	
12 Ethyl ether	59	2.544	2.544	0.000	93	70845	20.0	21.0	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	95	79813	20.0	20.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	82	81544	20.0	20.3	
15 Acrolein	56	2.724	2.724	0.000	3	6796	40.0	25.4	a
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	98	95222	20.0	20.3	
17 1,1-Dichloroethene	96	2.749	2.749	0.000	99	87798	20.0	20.2	
18 Acetone	43	2.839	2.839	0.000	87	108186	100.0	110.3	
19 Iodomethane	142	2.905	2.905	0.000	97	161340	20.0	20.5	
20 Isopropyl alcohol	45	2.930	2.930	0.000	27	36182	200.0	225.0	
21 Carbon disulfide	76	2.946	2.946	0.000	99	350386	20.0	20.1	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	96	168200	20.0	20.2	
24 Methyl acetate	43	3.070	3.070	0.000	99	113279	40.0	44.9	
23 Cyclopentene	67	3.078	3.078	0.000	95	234538	20.0	21.2	
25 Acetonitrile	41	3.135	3.135	0.000	98	108239	200.0	228.5	
27 Methylene Chloride	84	3.185	3.185	0.000	92	107841	20.0	20.1	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	137451	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	34	80894	200.0	279.9	M
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	270396	20.0	20.9	
30 trans-1,2-Dichloroethene	96	3.365	3.365	0.000	95	99668	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.439	3.439	0.000	97	331702	200.0	230.3	
32 Hexane	43	3.513	3.513	0.000	90	80451	20.0	20.5	
33 Isopropyl ether	45	3.719	3.719	0.000	96	308767	20.0	20.9	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	180104	20.0	21.0	
35 Vinyl acetate	86	3.768	3.768	0.000	100	33970	40.0	41.1	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	81829	20.0	19.3	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	288645	20.0	20.9	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	172110	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	95	37062	20.0	20.5	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	97	110557	20.0	20.4	
42 Ethyl acetate	70	4.286	4.286	0.000	96	16612	40.0	36.5	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	44692	100.0	98.0	
43 Methyl acrylate	55	4.343	4.343	0.000	98	63182	20.0	22.2	
44 Propionitrile	54	4.417	4.417	0.000	98	108900	200.0	212.9	
45 Chlorobromomethane	128	4.491	4.491	0.000	89	50862	20.0	20.3	
46 Tetrahydrofuran	72	4.499	4.499	0.000	54	21508	40.0	41.4	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	336547	200.0	215.0	
48 Chloroform	83	4.549	4.549	0.000	99	163078	20.0	21.1	
49 Cyclohexane	84	4.680	4.680	0.000	91	145983	20.0	20.2	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	98	136646	20.0	19.8	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	96943	50.0	51.6	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	114546	20.0	20.5	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	127386	20.0	20.9	
54 Isobutyl alcohol	43	4.992	4.992	0.000	90	116068	500.0	499.0	
55 Benzene	78	5.033	5.033	0.000	95	399471	20.0	21.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	102562	50.0	51.1	
57 Isopropyl acetate	43	5.083	5.083	0.000	81	239899	20.0	21.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	89	318697	20.0	21.7	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	108806	20.0	19.5	
60 n-Heptane	57	5.173	5.173	0.000	90	72172	20.0	21.4	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	376714	50.0	50.0	
62 n-Butanol	56	5.641	5.641	0.000	88	26220	500.0	377.5	
63 Trichloroethene	95	5.666	5.666	0.000	99	96349	20.0	20.8	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	215974	20.0	21.4	
64 Methylcyclohexane	83	5.789	5.789	0.000	89	173087	20.0	21.1	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	94	96963	20.0	20.2	
68 Methyl methacrylate	100	6.028	6.028	0.000	86	40356	40.0	41.6	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	13210	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	93096	20.0	20.8	
71 Dibromomethane	93	6.085	6.085	0.000	82	53095	20.0	19.4	
69 1,4-Dioxane	88	6.093	6.093	0.000	26	11365	400.0	450.7	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	117793	20.0	20.1	
73 2-Nitropropane	41	6.562	6.562	0.000	79	29727	40.0	35.6	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	74	42068	20.0	20.0	
75 Epichlorohydrin	57	6.677	6.677	0.000	98	136943	400.0	397.3	
76 cis-1,3-Dichloropropene	75	6.726	6.726	0.000	89	135299	20.0	20.1	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	95	362815	100.0	103.1	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	364983	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	93	394338	20.0	21.1	
80 trans-1,3-Dichloropropene	75	7.400	7.400	0.000	96	108759	20.0	19.4	
81 Ethyl methacrylate	69	7.424	7.424	0.000	88	102024	20.0	22.2	
82 1,1,2-Trichloroethane	83	7.613	7.613	0.000	96	63968	20.0	20.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	96	93896	20.0	20.5	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	93	123094	20.0	20.9	
85 2-Hexanone	43	7.893	7.893	0.000	96	194829	100.0	94.1	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	113216	20.0	21.5	
87 Chlorodibromomethane	129	8.057	8.057	0.000	98	82477	20.0	20.4	
88 Ethylene Dibromide	107	8.213	8.213	0.000	99	69055	20.0	20.3	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	265379	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	244535	20.0	20.7	
91 Ethylbenzene	106	8.895	8.895	0.000	98	138091	20.0	20.3	
92 1,1,1,2-Tetrachloroethane	131	8.912	8.912	0.000	96	93646	20.0	21.0	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	169832	20.0	20.9	
94 n-Butyl acrylate	73	9.487	9.487	0.000	98	60981	20.0	20.0	
95 o-Xylene	106	9.503	9.503	0.000	95	179570	20.0	21.4	
96 Styrene	104	9.536	9.536	0.000	96	275006	20.0	21.1	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	132621	20.0	20.2	
98 Bromoform	173	9.742	9.742	0.000	96	51520	20.0	19.9	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	454824	20.0	22.6	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	107705	50.0	50.3	
101 Bromobenzene	156	10.144	10.144	0.000	98	110472	20.0	21.2	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	98	108001	20.0	21.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	532185	20.0	22.2	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	96	29199	20.0	21.0	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	79	22880	20.0	20.7	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	359447	20.0	21.3	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	448022	20.0	22.7	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	384989	20.0	22.1	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	322256	20.0	21.6	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	121508	20.0	20.7	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	298179	20.0	21.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	394109	20.0	22.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	485531	20.0	22.5	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	414754	20.0	22.7	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	219193	20.0	21.4	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	94	151135	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	230522	20.0	21.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	98	413832	20.0	22.0	
118 Benzyl chloride	91	11.024	11.024	0.000	99	210991	20.0	22.4	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	95	410741	20.0	21.7	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	256158	20.0	22.8	
121 n-Butylbenzene	92	11.122	11.122	0.000	96	230312	20.0	22.1	
122 1,2-Dichlorobenzene	146	11.180	11.180	0.000	97	222097	20.0	21.7	
123 1,2,4,5-Tetramethylbenzene	119	11.599	11.599	0.000	98	389560	20.0	22.2	
124 1,2-Dibromo-3-Chloropropan	75	11.673	11.673	0.000	95	16824	20.0	18.5	
125 1,3,5-Trichlorobenzene	180	11.755	11.755	0.000	98	170675	20.0	21.3	
126 1,2,4-Trichlorobenzene	180	12.166	12.166	0.000	94	153046	20.0	21.5	
127 Hexachlorobutadiene	225	12.223	12.223	0.000	95	66139	20.0	19.6	
128 Naphthalene	128	12.330	12.330	0.000	99	355862	20.0	23.7	
129 1,2,3-Trichlorobenzene	180	12.503	12.503	0.000	95	148095	20.0	21.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	41.1	
S 131 Xylenes, Total	100				0		40.0	42.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 06:34:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D

Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6 Operator ID:

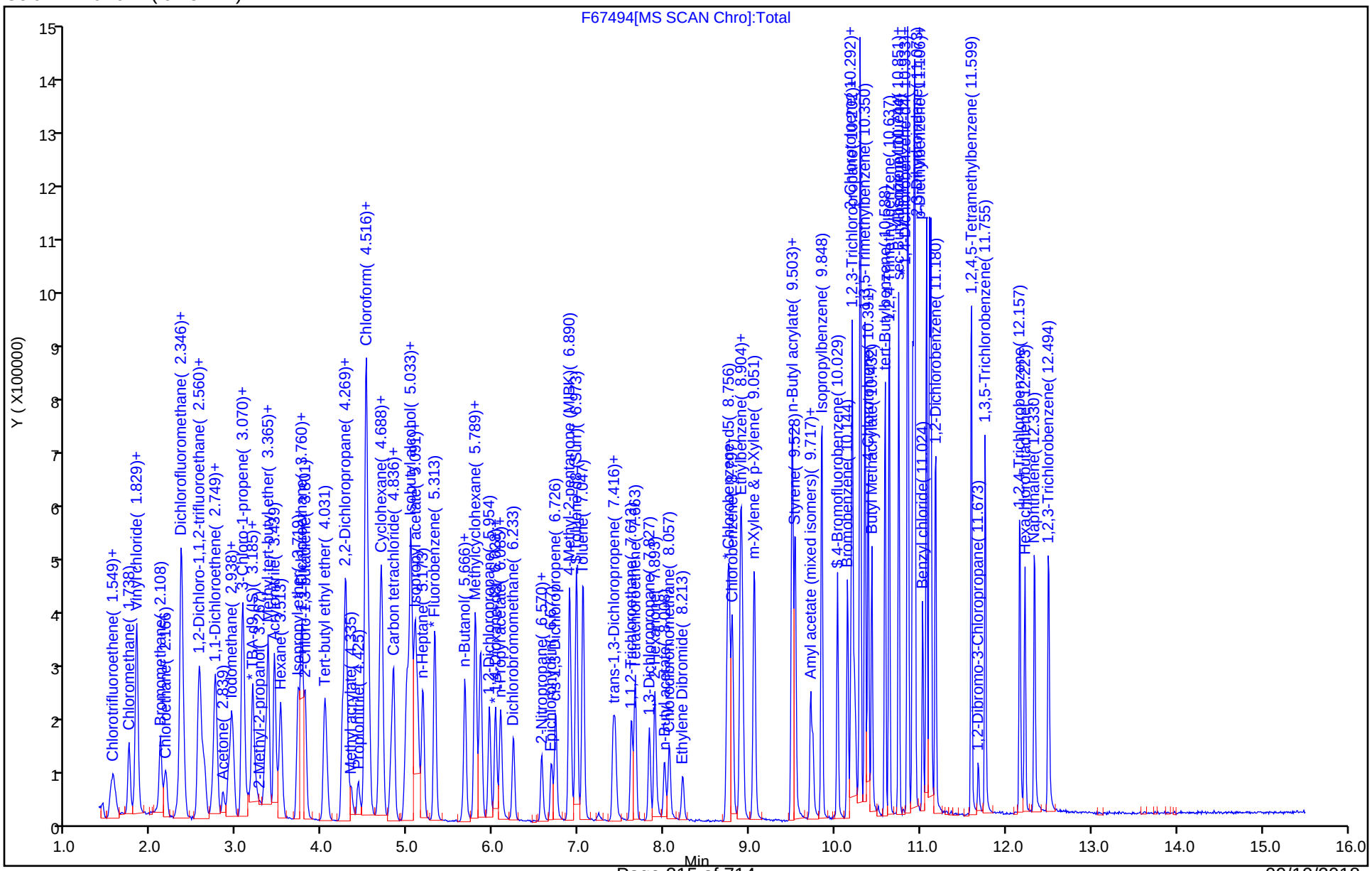
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

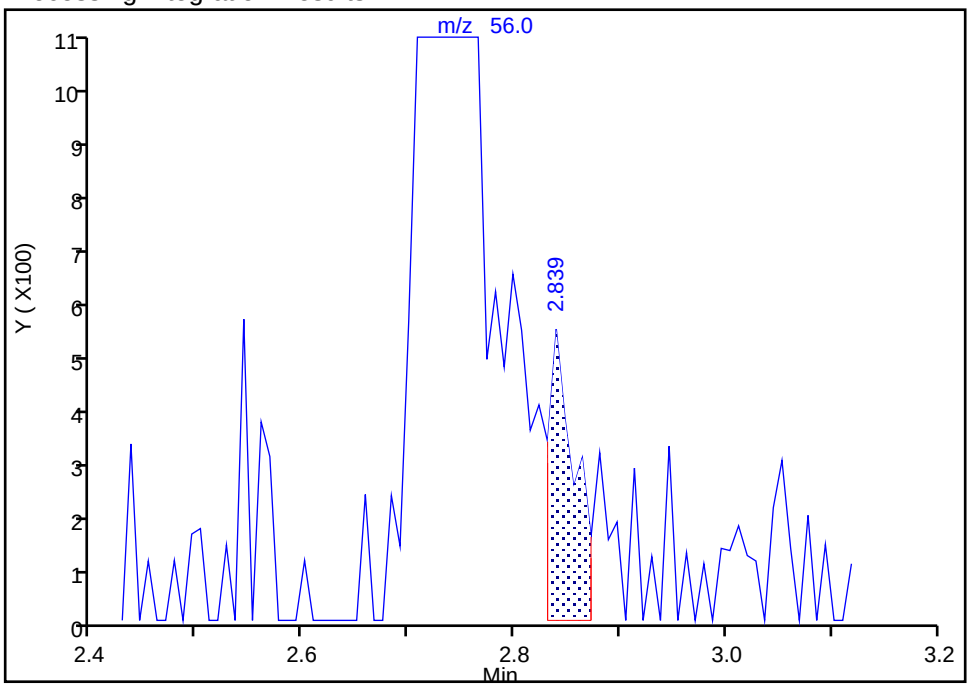
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

15 Acrolein, CAS: 107-02-8

Signal: 1

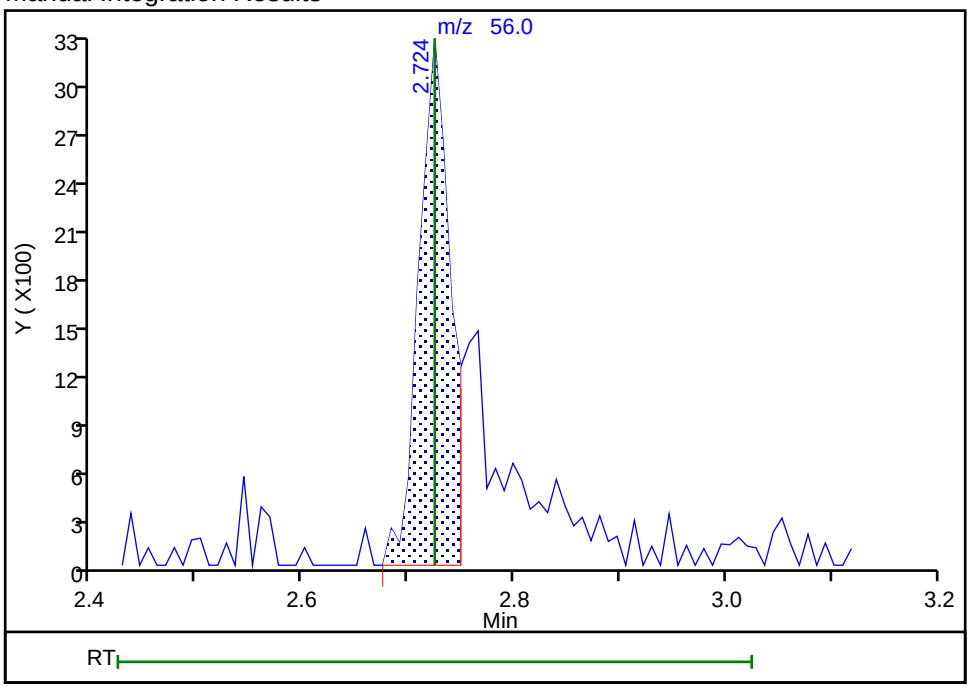
Processing Integration Results

RT: 2.84
Area: 944
Amount: 3.534701
Amount Units: ug/l



Manual Integration Results

RT: 2.72
Area: 6796
Amount: 25.446850
Amount Units: ug/l



Reviewer: parekhv, 09-Jul-2018 18:51:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

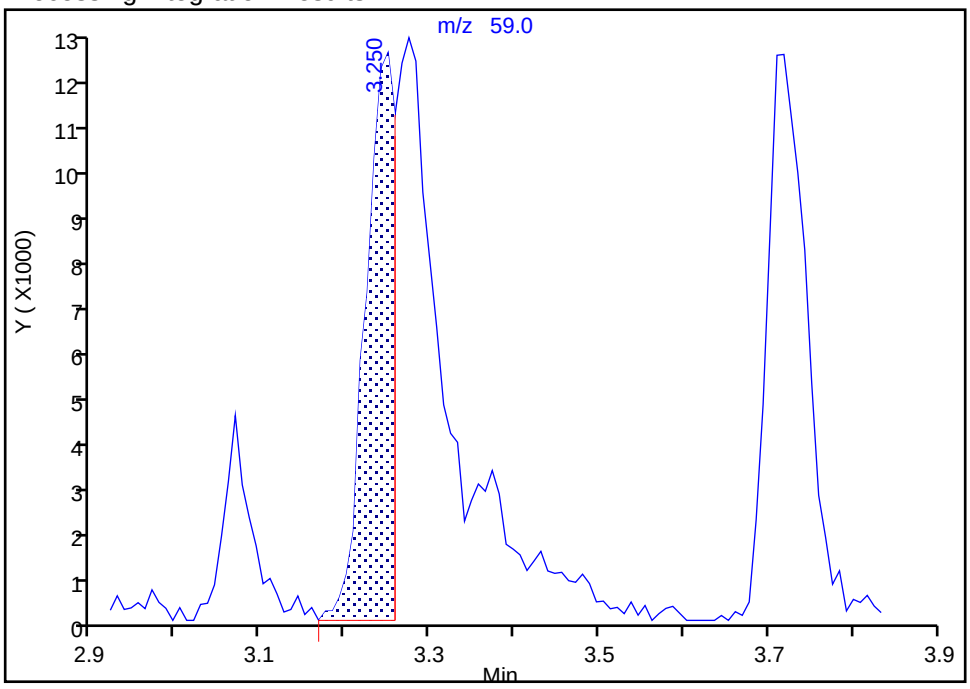
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67494.D
Injection Date: 09-Jul-2018 18:27:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

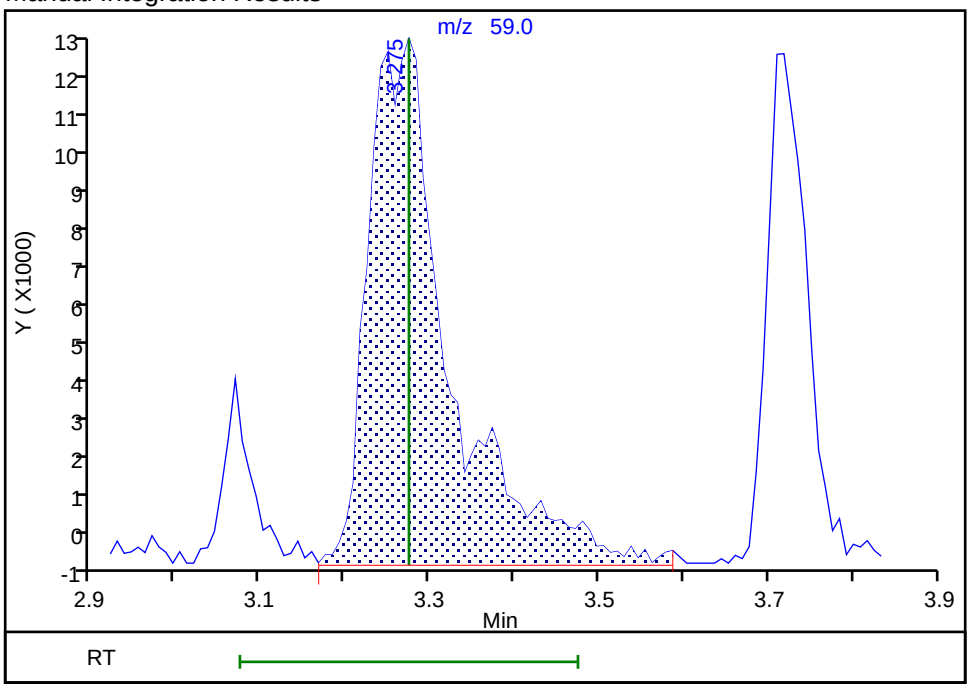
Processing Integration Results

RT: 3.25
Area: 29092
Amount: 100.6521
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 80894
Amount: 279.8760
Amount Units: ug/l



Reviewer: moroneyc, 10-Jul-2018 06:21:13
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.3684	0.3804		20.6	20.0	3.2	20.0
Dichlorodifluoromethane	Ave	0.8896	0.9664	0.1000	21.7	20.0	8.6	20.0
Chloromethane	Ave	1.087	1.029	0.1000	18.9	20.0	-5.3	20.0
Butadiene	Ave	0.9872	1.026		20.8	20.0	3.9	20.0
Vinyl chloride	Ave	1.086	1.117	0.1000	20.6	20.0	2.8	20.0
Bromomethane	Ave	0.7505	0.7745	0.1000	20.6	20.0	3.2	50.0
Chloroethane	Ave	0.6452	0.6882	0.1000	21.3	20.0	6.7	50.0
Dichlorofluoromethane	Ave	1.369	1.429		20.9	20.0	4.3	20.0
Pentane	Ave	6.316	7.579		48.0	40.0	20.0	20.0
Trichlorofluoromethane	Ave	1.006	1.092	0.1000	21.7	20.0	8.6	20.0
Ethanol	Ave	0.0795	0.0761		765	800	-4.3	50.0
Ethyl ether	Ave	0.4485	0.4489		20.0	20.0	0.0	20.0
2-Methyl-1,3-butadiene	Ave	0.5222	0.5243		20.1	20.0	0.4	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.5337	0.5622		21.1	20.0	5.3	20.0
Acrolein	Ave	1.943	1.592		32.8	40.0	-18.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.6227	0.6628	0.1000	21.3	20.0	6.4	20.0
1,1-Dichloroethene	Ave	0.5782	0.5923	0.1000	20.5	20.0	2.4	20.0
Acetone	Ave	1.425	1.574	0.0500	110	100	10.5	50.0
Iodomethane	Ave	1.044	1.012		19.4	20.0	-3.0	20.0
Isopropyl alcohol	Ave	1.170	1.154		197	200	-1.3	50.0
Carbon disulfide	Ave	2.314	2.305	0.1000	19.9	20.0	-0.4	50.0
Allyl chloride	Ave	1.106	1.106		20.0	20.0	-0.0	20.0
Methyl acetate	Ave	0.3351	0.3413	0.1000	40.7	40.0	1.8	20.0
Cyclopentene	Ave	1.469	1.586		21.6	20.0	8.0	20.0
Acetonitrile	Ave	3.446	4.134		240	200	20.0	20.0
Methylene Chloride	Ave	0.7118	0.7199	0.1000	20.2	20.0	1.1	20.0
2-Methyl-2-propanol	Ave	2.103	2.223		211	200	5.7	50.0
Methyl tert-butyl ether	Ave	1.713	1.652	0.1000	19.3	20.0	-3.6	20.0
trans-1,2-Dichloroethene	Ave	0.6394	0.6599	0.1000	20.6	20.0	3.2	20.0
Acrylonitrile	Ave	0.1912	0.2071		217	200	8.3	20.0
Hexane	Ave	0.5210	0.5520		21.2	20.0	5.9	20.0
Isopropyl ether	Ave	1.959	1.982		20.2	20.0	1.2	20.0
1,1-Dichloroethane	Ave	1.136	1.160	0.2000	20.4	20.0	2.1	20.0
Vinyl acetate	Ave	0.1098	0.1009		36.7	40.0	-8.1	20.0
2-Chloro-1,3-butadiene	Ave	0.5638	0.5665		20.1	20.0	0.5	20.0
Tert-butyl ethyl ether	Ave	1.835	1.810		19.7	20.0	-1.4	20.0
2,2-Dichloropropane	Ave	0.2397	0.2337		19.5	20.0	-2.5	20.0
cis-1,2-Dichloroethene	Ave	0.7193	0.7274	0.1000	20.2	20.0	1.1	20.0
2-Butanone (MEK)	Ave	0.6625	0.6272	0.0500	94.7	100	-5.3	50.0
Ethyl acetate	Ave	0.6611	0.5872		35.5	40.0	-11.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.5371	0.5081		18.9	20.0	-5.4	20.0
Propionitrile	Ave	3.721	4.180		225	200	12.3	20.0
Chlorobromomethane	Ave	0.3319	0.3352		20.2	20.0	1.0	20.0
Tetrahydrofuran	Lin2		0.8282		44.0	40.0	10.0	20.0
Methacrylonitrile	Ave	0.2077	0.2082		200	200	0.2	20.0
Chloroform	Ave	1.026	1.065	0.2000	20.7	20.0	3.7	20.0
Cyclohexane	Ave	0.9576	1.012	0.1000	21.1	20.0	5.7	50.0
1,1,1-Trichloroethane	Ave	0.9145	0.9340	0.1000	20.4	20.0	2.1	20.0
Carbon tetrachloride	Ave	0.7427	0.7568	0.1000	20.4	20.0	1.9	20.0
1,1-Dichloropropene	Ave	0.8095	0.8311		20.5	20.0	2.7	20.0
Isobutyl alcohol	Ave	1.692	1.699		502	500	0.4	50.0
Benzene	Ave	3.489	3.619	0.5000	20.7	20.0	3.7	20.0
Isopropyl acetate	Ave	1.466	1.443		19.7	20.0	-1.5	20.0
Tert-amyl methyl ether	Ave	1.952	1.893		19.4	20.0	-3.1	20.0
1,2-Dichloroethane	Ave	0.7395	0.6872	0.1000	18.6	20.0	-7.1	20.0
n-Heptane	Ave	0.4484	0.4959		22.1	20.0	10.6	20.0
n-Butanol	QuaF		0.3133		310	500	-37.9	50.0
Trichloroethene	Ave	0.6162	0.5954	0.2000	19.3	20.0	-3.4	20.0
Ethyl acrylate	Ave	1.338	1.392		20.8	20.0	4.0	20.0
Methylcyclohexane	Ave	1.086	1.178	0.1000	21.7	20.0	8.4	50.0
1,2-Dichloropropane	Ave	0.6384	0.6249	0.1000	19.6	20.0	-2.1	20.0
Methyl methacrylate	Lin2		0.1185		36.9	40.0	-7.8	20.0
n-Propyl acetate	Ave	0.5927	0.5537		18.7	20.0	-6.6	20.0
1,4-Dioxane	Ave	1.909	1.834		384	400	-3.9	50.0
Dibromomethane	Ave	0.3635	0.3609		19.9	20.0	-0.7	20.0
Bromodichloromethane	Ave	0.7764	0.7540	0.2000	19.4	20.0	-2.9	20.0
2-Nitropropane	Ave	0.1107	0.0972		35.1	40.0	-12.3	20.0
2-Chloroethyl vinyl ether	Ave	0.2790	0.2538		18.2	20.0	-9.0	20.0
Epichlorohydrin	Ave	0.5007	0.5326		425	400	6.4	20.0
cis-1,3-Dichloropropene	Ave	1.267	1.214	0.2000	19.2	20.0	-4.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	5.113	5.360	0.0500	105	100	4.8	50.0
Toluene	Ave	3.527	3.557	0.4000	20.2	20.0	0.9	20.0
trans-1,3-Dichloropropene	Ave	1.057	0.996	0.1000	18.8	20.0	-5.8	50.0
Ethyl methacrylate	Ave	0.8650	0.8285		19.2	20.0	-4.2	20.0
1,1,2-Trichloroethane	Ave	0.5874	0.5711	0.1000	19.4	20.0	-2.8	20.0
Tetrachloroethene	Ave	0.8618	0.8996	0.2000	20.9	20.0	4.4	20.0
1,3-Dichloropropane	Ave	1.111	1.111		20.0	20.0	-0.0	20.0
2-Hexanone	Lin2		2.858	0.0500	95.0	100	-5.0	50.0
n-Butyl acetate	Lin2		0.9519		19.2	20.0	-3.8	20.0
Dibromochloromethane	Ave	0.7612	0.7152	0.1000	18.8	20.0	-6.0	50.0
1,2-Dibromoethane	Ave	0.6407	0.6357	0.1000	19.8	20.0	-0.8	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	2.221	2.230	0.5000	20.1	20.0	0.4	20.0
Ethylbenzene	Ave	1.283	1.274	0.1000	19.9	20.0	-0.7	20.0
1,1,1,2-Tetrachloroethane	Ave	0.8419	0.8441		20.1	20.0	0.3	20.0
m-Xylene & p-Xylene	Ave	1.528	1.501	0.1000	19.6	20.0	-1.8	20.0
n-Butyl acrylate	Lin2		0.5248		18.3	20.0	-8.5	20.0
o-Xylene	Ave	1.580	1.578	0.3000	20.0	20.0	-0.1	20.0
Styrene	Ave	2.456	2.470	0.3000	20.1	20.0	0.6	20.0
Bromoform	Ave	0.4880	0.4719	0.1000	19.3	20.0	-3.3	20.0
Isopropylbenzene	Ave	3.798	4.123	0.1000	21.7	20.0	8.6	20.0
Bromobenzene	Ave	1.728	1.667		19.3	20.0	-3.5	20.0
1,1,2,2-Tetrachloroethane	Ave	1.629	1.571	0.3000	19.3	20.0	-3.6	20.0
N-Propylbenzene	Ave	7.921	8.071		20.4	20.0	1.9	20.0
1,2,3-Trichloropropane	Ave	0.4595	0.4388		19.1	20.0	-4.5	20.0
trans-1,4-Dichloro-2-butene	Lin2		0.3272		18.0	20.0	-9.9	20.0
2-Chlorotoluene	Ave	5.582	5.643		20.2	20.0	1.1	20.0
4-Ethyltoluene	Ave	6.531	6.847		21.0	20.0	4.8	20.0
1,3,5-Trimethylbenzene	Ave	5.756	5.803		20.2	20.0	0.8	20.0
4-Chlorotoluene	Ave	4.937	4.842		19.6	20.0	-1.9	20.0
Butyl Methacrylate	Qua2		1.743		18.0	20.0	-9.8	20.0
tert-Butylbenzene	Ave	4.643	4.516		19.5	20.0	-2.7	20.0
1,2,4-Trimethylbenzene	Ave	5.856	5.891		20.1	20.0	0.6	20.0
sec-Butylbenzene	Ave	7.151	7.301		20.4	20.0	2.1	20.0
4-Isopropyltoluene	Ave	6.041	6.148		20.4	20.0	1.8	20.0
1,3-Dichlorobenzene	Ave	3.388	3.355	0.6000	19.8	20.0	-1.0	20.0
1,4-Dichlorobenzene	Ave	3.493	3.486	0.5000	20.0	20.0	-0.2	20.0
1,2,3-Trimethylbenzene	Ave	6.222	6.270		20.2	20.0	0.8	20.0
Benzyl chloride	Ave	3.109	3.115		20.0	20.0	0.2	50.0
Indan	Ave	6.256	6.257		20.0	20.0	0.0	20.0
p-Diethylbenzene	Ave	3.719	3.845		20.7	20.0	3.4	20.0
n-Butylbenzene	Ave	3.445	3.482		20.2	20.0	1.1	20.0
1,2-Dichlorobenzene	Ave	3.393	3.375	0.4000	19.9	20.0	-0.5	20.0
1,2,4,5-Tetramethylbenzene	Ave	5.805	5.774		19.9	20.0	-0.5	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.3001	0.2561	0.0500	17.1	20.0	-14.7	50.0
1,3,5-Trichlorobenzene	Ave	2.645	2.598		19.6	20.0	-1.8	20.0
1,2,4-Trichlorobenzene	Ave	2.352	2.233	0.2000	19.0	20.0	-5.1	20.0
Hexachlorobutadiene	Ave	1.115	1.098		19.7	20.0	-1.6	20.0
Naphthalene	Ave	4.978	4.811		19.3	20.0	-3.4	50.0
1,2,3-Trichlorobenzene	Ave	2.255	2.112		18.7	20.0	-6.3	20.0
Dibromofluoromethane (Surr)	Ave	0.2492	0.2597		52.1	50.0	4.2	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2662	0.2691		50.5	50.0	1.1	20.0
Toluene-d8 (Surr)	Ave	1.378	1.373		49.8	50.0	-0.4	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-534889/3 Calibration Date: 07/10/2018 06:57

Instrument ID: CVOAMS6 Calib Start Date: 07/08/2018 08:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/08/2018 10:34

Lab File ID: F67526.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
4-Bromofluorobenzene	Ave	0.4036	0.4068		50.4	50.0	0.8	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 06:57:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075172-003
Operator ID: Instrument ID: CVOAMS6
Sublist: chrom-8260624W6*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:35:43 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:31:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	82	54453	20.0	20.6	
2 Dichlorodifluoromethane	85	1.582	1.582	0.000	99	138342	20.0	21.7	
3 Chloromethane	50	1.747	1.747	0.000	100	147347	20.0	18.9	
5 Butadiene	54	1.837	1.837	0.000	94	146900	20.0	20.8	
4 Vinyl chloride	62	1.837	1.837	0.000	97	159838	20.0	20.6	
6 Bromomethane	94	2.116	2.116	0.000	97	110875	20.0	20.6	
7 Chloroethane	64	2.174	2.174	0.000	100	98522	20.0	21.3	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	204542	20.0	20.9	
10 Pentane	72	2.363	2.363	0.000	97	36740	40.0	48.0	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	54	156341	20.0	21.7	
11 Ethanol	46	2.552	2.552	0.000	73	7376	800.0	765.4	
12 Ethyl ether	59	2.552	2.552	0.000	95	64265	20.0	20.0	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	75059	20.0	20.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.626	0.000	95	80489	20.0	21.1	
15 Acrolein	56	2.733	2.733	0.000	85	7717	40.0	32.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	94887	20.0	21.3	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	84795	20.0	20.5	
18 Acetone	43	2.848	2.848	0.000	90	91588	100.0	110.5	
19 Iodomethane	142	2.914	2.914	0.000	97	144934	20.0	19.4	
20 Isopropyl alcohol	45	2.930	2.930	0.000	35	27968	200.0	197.3	
21 Carbon disulfide	76	2.946	2.946	0.000	99	330031	20.0	19.9	
22 3-Chloro-1-propene	41	3.070	3.070	0.000	93	158292	20.0	20.0	
24 Methyl acetate	43	3.078	3.078	0.000	81	97705	40.0	40.7	
23 Cyclopentene	67	3.086	3.086	0.000	94	227075	20.0	21.6	
25 Acetonitrile	41	3.152	3.152	0.000	86	100204	200.0	239.9	a
27 Methylene Chloride	84	3.193	3.193	0.000	91	103058	20.0	20.2	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	121188	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.259	3.259	0.000	53	53882	200.0	211.4	
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	236479	20.0	19.3	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	93	94474	20.0	20.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.448	3.448	0.000	95	296400	200.0	216.6	
32 Hexane	43	3.522	3.522	0.000	91	79021	20.0	21.2	
33 Isopropyl ether	45	3.727	3.727	0.000	95	283667	20.0	20.2	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	166095	20.0	20.4	
35 Vinyl acetate	86	3.776	3.776	0.000	100	28885	40.0	36.7	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	91	81103	20.0	20.1	
37 Tert-butyl ethyl ether	59	4.039	4.039	0.000	89	259127	20.0	19.7	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	145426	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	92	33458	20.0	19.5	
40 cis-1,2-Dichloroethene	96	4.278	4.278	0.000	96	104128	20.0	20.2	
42 Ethyl acetate	70	4.286	4.286	0.000	96	13662	40.0	35.5	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	36482	100.0	94.7	
43 Methyl acrylate	55	4.343	4.343	0.000	98	51379	20.0	18.9	a
44 Propionitrile	54	4.425	4.425	0.000	98	101303	200.0	224.7	
45 Chlorobromomethane	128	4.499	4.499	0.000	90	47991	20.0	20.2	
46 Tetrahydrofuran	72	4.508	4.508	0.000	54	19270	40.0	44.0	
47 Methacrylonitrile	67	4.524	4.524	0.000	91	298089	200.0	200.5	
48 Chloroform	83	4.549	4.549	0.000	99	152414	20.0	20.7	
49 Cyclohexane	84	4.680	4.680	0.000	92	144929	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	98	133703	20.0	20.4	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	92941	50.0	52.1	
52 Carbon tetrachloride	117	4.812	4.812	0.000	97	108345	20.0	20.4	
53 1,1-Dichloropropene	75	4.844	4.844	0.000	98	118981	20.0	20.5	
54 Isobutyl alcohol	43	4.992	4.992	0.000	92	102965	500.0	502.1	
55 Benzene	78	5.033	5.033	0.000	95	365935	20.0	20.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	96305	50.0	50.5	
57 Isopropyl acetate	43	5.091	5.091	0.000	95	206554	20.0	19.7	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	94	270937	20.0	19.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	98383	20.0	18.6	
60 n-Heptane	57	5.181	5.181	0.000	90	70984	20.0	22.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	357893	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	62	18985	500.0	310.4	
63 Trichloroethene	95	5.674	5.674	0.000	99	85242	20.0	19.3	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	199312	20.0	20.8	
64 Methylcyclohexane	83	5.798	5.798	0.000	90	168601	20.0	21.7	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	93	89465	20.0	19.6	
* 67 1,4-Dioxane-d8	96	6.019	6.019	0.000	0	12896	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.036	0.000	86	33916	40.0	36.9	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	79263	20.0	18.7	
71 Dibromomethane	93	6.093	6.093	0.000	92	51658	20.0	19.9	
69 1,4-Dioxane	88	6.093	6.093	0.000	28	9462	400.0	384.4	
72 Dichlorobromomethane	83	6.241	6.241	0.000	98	107937	20.0	19.4	
73 2-Nitropropane	41	6.570	6.570	0.000	80	27816	40.0	35.1	
74 2-Chloroethyl vinyl ether	63	6.578	6.578	0.000	75	36339	20.0	18.2	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	123915	400.0	425.5	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	122729	20.0	19.2	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	311777	100.0	104.8	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	99	347192	50.0	49.8	
79 Toluene	91	7.055	7.055	0.000	93	359752	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	96	100680	20.0	18.8	
81 Ethyl methacrylate	69	7.433	7.433	0.000	86	83778	20.0	19.2	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	57748	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.663	7.663	0.000	97	90976	20.0	20.9	
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	112342	20.0	20.0	
85 2-Hexanone	43	7.893	7.893	0.000	94	166242	100.0	95.0	
86 n-Butyl acetate	43	8.008	8.008	0.000	97	96260	20.0	19.2	
87 Chlorodibromomethane	129	8.066	8.066	0.000	97	72329	20.0	18.8	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	64284	20.0	19.8	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	252815	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	225530	20.0	20.1	
91 Ethylbenzene	106	8.895	8.895	0.000	98	128840	20.0	19.9	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	85355	20.0	20.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	151814	20.0	19.6	
94 n-Butyl acrylate	73	9.495	9.495	0.000	96	53068	20.0	18.3	
95 o-Xylene	106	9.503	9.503	0.000	94	159577	20.0	20.0	
96 Styrene	104	9.536	9.536	0.000	96	249735	20.0	20.1	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	115511	20.0	17.7	
98 Bromoform	173	9.742	9.742	0.000	97	47720	20.0	19.3	
99 Isopropylbenzene	105	9.849	9.849	0.000	95	416986	20.0	21.7	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	102850	50.0	50.4	
101 Bromobenzene	156	10.153	10.153	0.000	97	100996	20.0	19.3	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	95176	20.0	19.3	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	489081	20.0	20.4	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	95	26592	20.0	19.1	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	77	19830	20.0	18.0	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	341955	20.0	20.2	
107 4-Ethyltoluene	105	10.301	10.301	0.000	98	414889	20.0	21.0	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	351643	20.0	20.2	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	293385	20.0	19.6	
110 Butyl Methacrylate	87	10.432	10.432	0.000	87	105643	20.0	18.0	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	273661	20.0	19.5	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	357003	20.0	20.1	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	442431	20.0	20.4	
114 4-Isopropyltoluene	119	10.843	10.843	0.000	98	372525	20.0	20.4	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	203284	20.0	19.8	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	151493	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	211222	20.0	20.0	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	379949	20.0	20.2	
118 Benzyl chloride	91	11.024	11.024	0.000	99	188752	20.0	20.0	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	94	379129	20.0	20.0	
120 p-Diethylbenzene	119	11.098	11.098	0.000	94	233017	20.0	20.7	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	211011	20.0	20.2	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	95	204499	20.0	19.9	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	98	349915	20.0	19.9	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	92	15516	20.0	17.1	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	97	157438	20.0	19.6	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	95	135326	20.0	19.0	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	96	66511	20.0	19.7	
128 Naphthalene	128	12.314	12.314	0.000	99	291519	20.0	19.3	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	95	128008	20.0	18.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.9	
S 131 Xylenes, Total	100				0		40.0	39.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 13:35:46 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D

Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6 Operator ID:

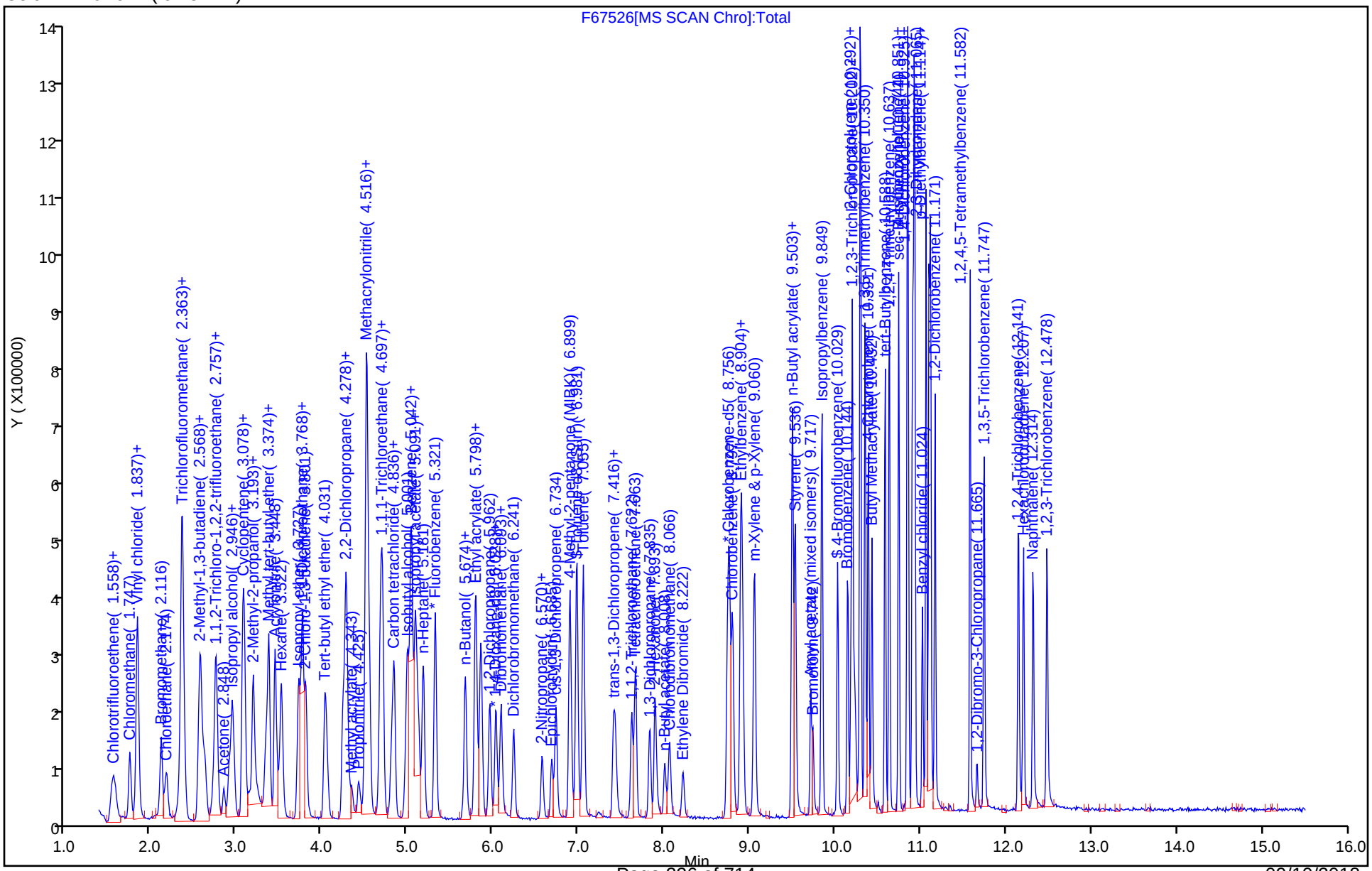
Lims ID: CCVIS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

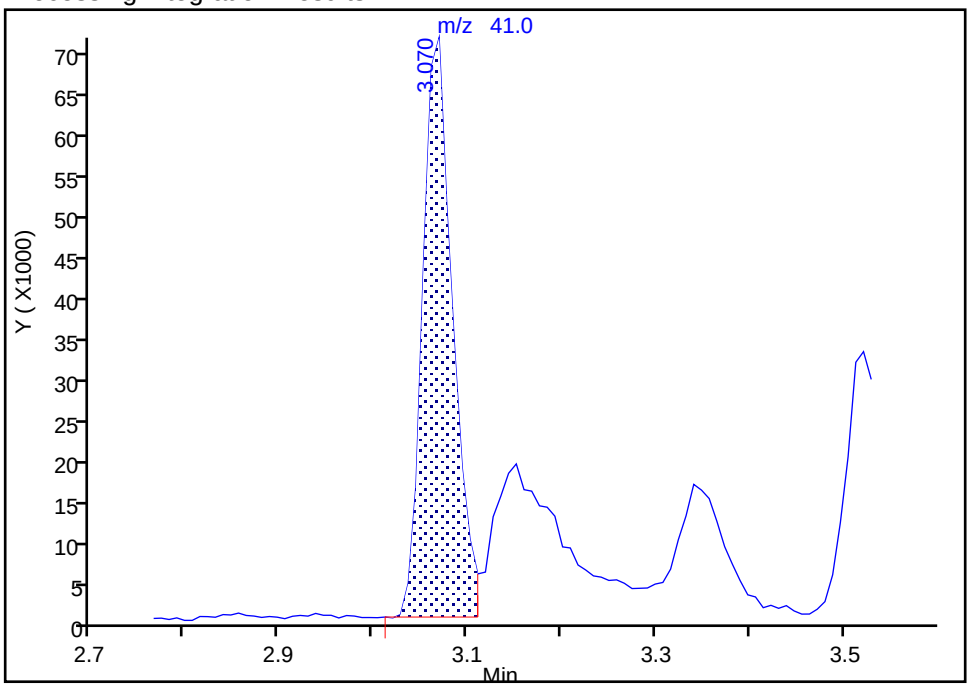
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Signal: 1

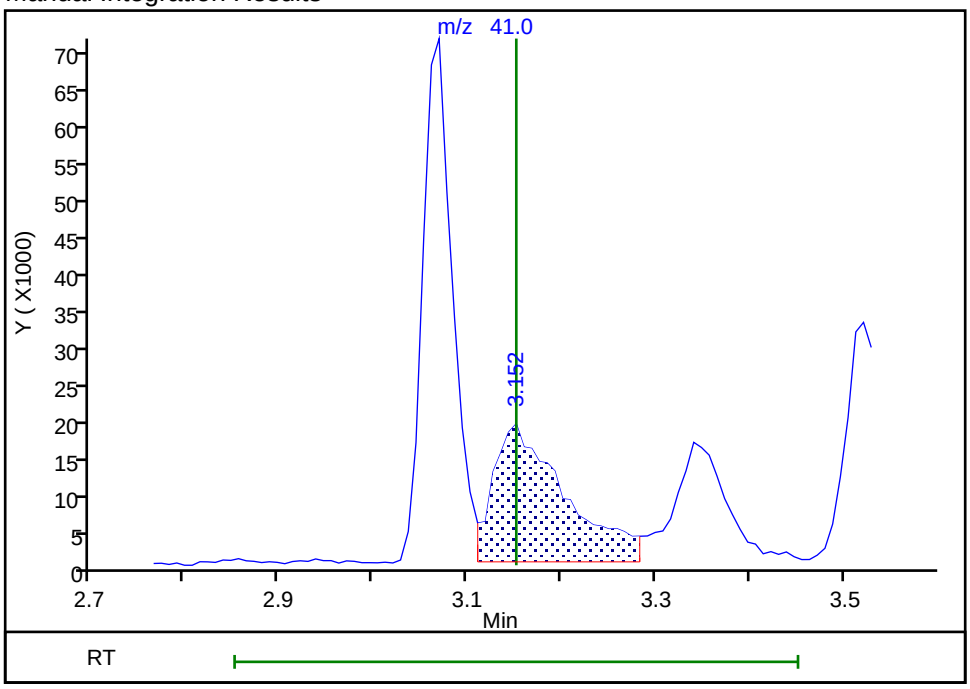
Processing Integration Results

RT: 3.07
Area: 157707
Amount: 377.5875
Amount Units: ug/l



Manual Integration Results

RT: 3.15
Area: 100204
Amount: 239.9119
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:34:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

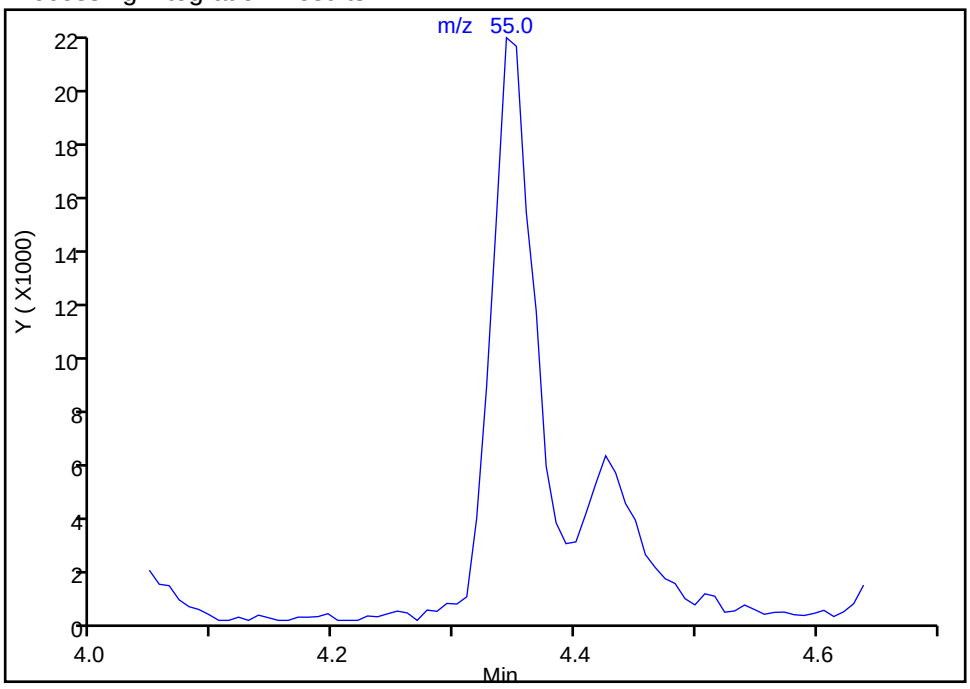
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67526.D
Injection Date: 10-Jul-2018 06:57:30 Instrument ID: CVOAMS6
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Signal: 1

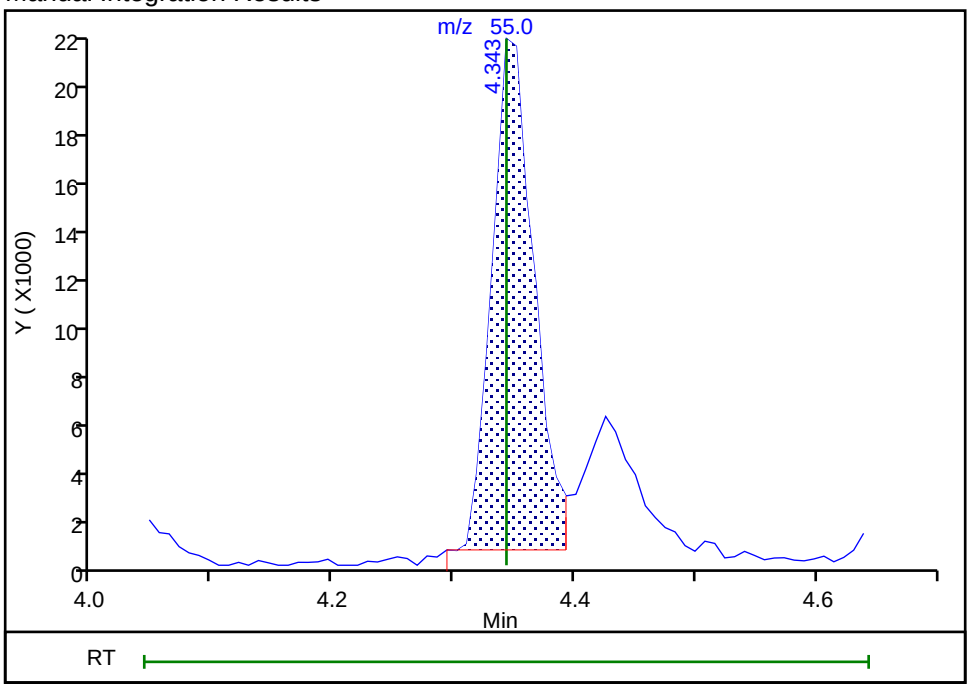
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 51379
Amount: 18.917480
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:34:53
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Jul-2018 07:26:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075068-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 18:37:29 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK024

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.408	3.408	0.000	91	42762	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

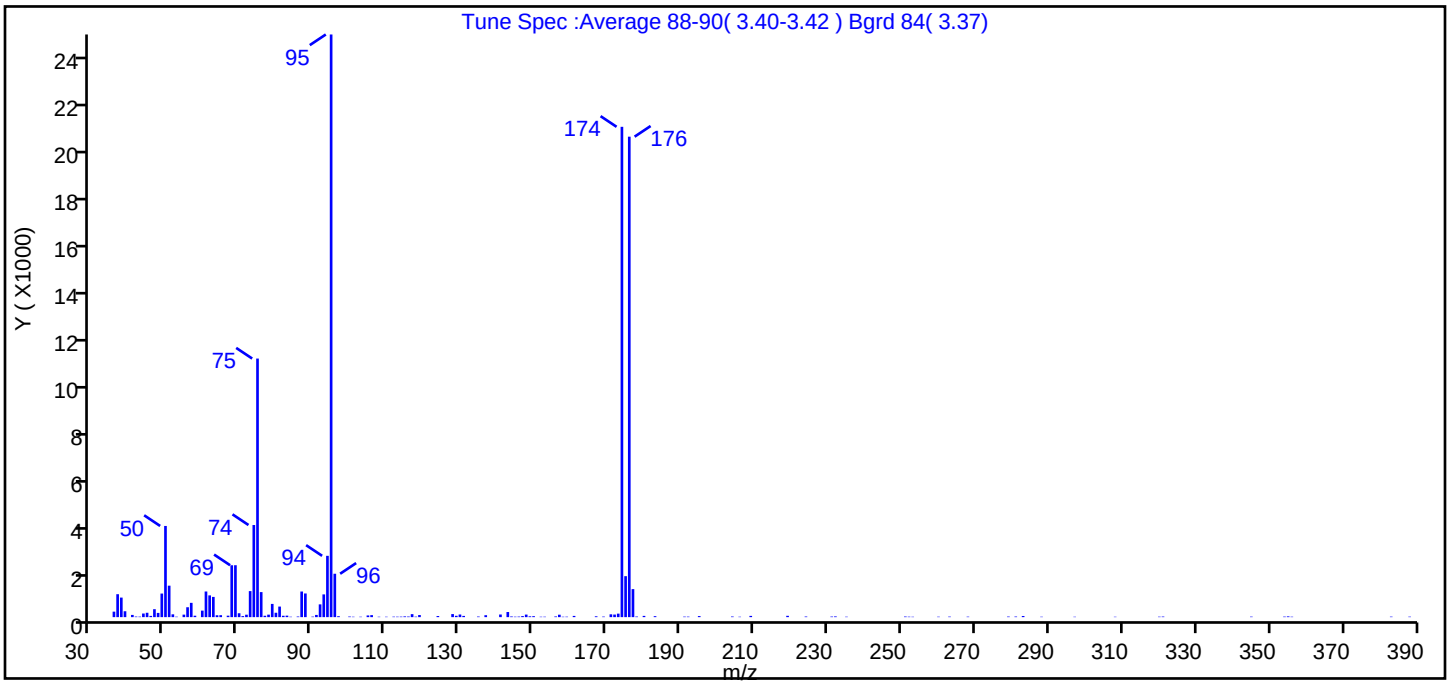
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D
Injection Date: 08-Jul-2018 07:26:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.6
75	30 to 60% of m/z 95	44.4
96	5 to 9% of m/z 95	7.4
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	84.2
175	5 to 9% of m/z 174	7.0 (8.4)
176	Greater than 95% but less than 101% of m/z 174	82.5 (98.0)
177	5 to 9% of m/z 176	4.8 (5.8)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	228	75.00	10708	119.00	87	183.00	40
37.00	950	76.00	1037	124.00	46	191.00	21
38.00	810	77.00	57	128.00	127	192.00	21
39.00	244	78.00	103	129.00	56	195.00	44
41.00	92	79.00	548	130.00	109	204.00	26
42.00	24	80.00	182	131.00	51	206.00	17
43.00	21	81.00	438	135.00	25	209.00	52
44.00	150	82.00	57	137.00	80	219.00	55
45.00	181	83.00	62	141.00	109	224.00	26
46.00	52	84.00	17	143.00	212	231.00	24
47.00	329	86.00	26	144.00	28	232.00	30
48.00	175	87.00	1061	145.00	19	235.00	18
49.00	977	88.00	980	146.00	23	251.00	25
50.00	3776	90.00	22	147.00	43	252.00	19
51.00	1303	91.00	92	148.00	106	253.00	16
52.00	117	92.00	529	149.00	34	260.00	18
53.00	18	93.00	942	150.00	40	263.00	22
55.00	104	94.00	2539	152.00	17	268.00	20
56.00	410	95.00	24128	153.00	18	279.00	24
57.00	592	96.00	1797	156.00	29	281.00	25
58.00	59	97.00	38	157.00	101	283.00	46
60.00	270	100.00	25	158.00	17	288.00	17
61.00	1062	101.00	17	159.00	19	297.00	16
62.00	901	103.00	17	161.00	51	308.00	16
63.00	838	105.00	70	167.00	35	320.00	19
64.00	78	106.00	83	169.00	23	321.00	24
65.00	81	108.00	17	171.00	117	345.00	21
67.00	61	110.00	17	172.00	107	354.00	22
68.00	2148	112.00	20	173.00	145	355.00	31
69.00	2150	113.00	19	174.00	20304	356.00	18
70.00	161	114.00	21	175.00	1697	383.00	21
71.00	43	115.00	31	176.00	19896	388.00	20
72.00	101	116.00	25	177.00	1161		

Report Date: 08-Jul-2018 18:37:29 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67406.D\8260624W6.rslt\spectra.d
Injection Date: 08-Jul-2018 07:26:30
Spectrum: Tune Spec :Average 88-90(3.40-3.42) Bgrd 84(3.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 137

m/z	Y	m/z	Y	m/z	Y	m/z	Y
73.00	1078	117.00	124	178.00	25		
74.00	3815	118.00	20	180.00	52		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 09-Jul-2018 17:40:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075142-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 05:44:14 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 18:11:33

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.392	3.392	0.000	87	72902	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

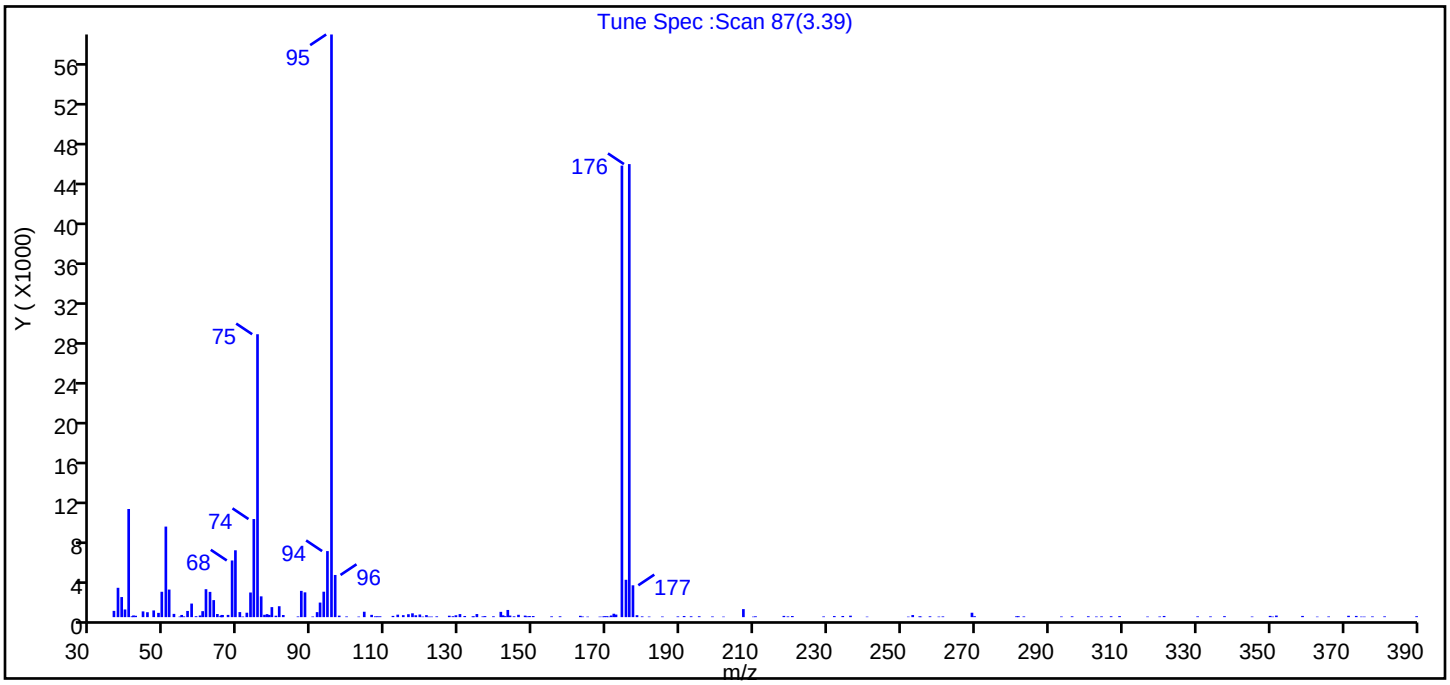
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D
Injection Date: 09-Jul-2018 17:40:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.5
75	30 to 60% of m/z 95	48.6
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	77.5
175	5 to 9% of m/z 174	6.4 (8.3)
176	Greater than 95% but less than 101% of m/z 174	77.8 (100.3)
177	5 to 9% of m/z 176	5.5 (7.0)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D\8260624W6.rslt\spectra.d
Injection Date: 09-Jul-2018 17:40:30
Spectrum: Tune Spec :Scan 87(3.39)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 177

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	632	80.00	143	141.70	185	234.00	117
37.10	2954	80.90	1100	142.30	99	236.10	148
38.10	2021	82.00	214	143.00	723	240.60	50
39.00	774	86.00	69	143.60	159	251.80	50
40.00	10887	86.90	2645	144.70	82	253.00	210
40.90	86	87.90	2497	145.90	237	254.90	79
41.30	170	90.00	65	147.70	154	255.20	53
41.90	139	91.20	503	148.20	78	257.70	83
43.90	579	92.00	1467	148.90	113	260.10	56
45.10	494	93.00	2562	149.90	112	261.20	72
46.80	675	94.00	6649	154.90	80	269.10	444
48.10	429	95.10	58656	157.20	85	269.80	94
49.00	2554	96.10	4246	162.70	133	281.20	88
50.10	9116	97.20	152	163.30	65	281.70	94
51.00	2777	99.20	70	164.70	53	283.20	72
52.30	328	102.50	55	168.00	50	293.40	65
53.90	60	104.00	544	168.80	58	296.30	83
54.40	221	106.00	230	169.30	100	300.70	86
55.00	74	107.00	79	169.90	96	302.90	62
56.00	624	107.60	89	170.40	51	304.30	75
57.10	1367	108.30	84	171.10	164	306.90	88
58.30	93	111.80	126	171.80	344	309.20	100
59.40	166	113.10	250	172.40	260	316.80	59
60.10	603	114.60	201	174.00	45456	320.10	63
61.00	2813	116.00	295	175.10	3761	321.30	119
62.10	2542	117.10	386	176.00	45608	330.40	79
63.10	1714	118.00	188	177.00	3206	333.90	72
64.10	314	119.10	266	178.10	195	337.70	99
65.00	132	119.90	57	179.50	75	345.20	60
65.30	221	120.90	204	181.40	58	350.10	125
65.50	215	121.60	53	185.00	62	350.80	56
67.00	226	122.30	57	189.20	74	351.80	159
68.10	5705	123.70	81	190.90	112	358.90	123

Report Date: 10-Jul-2018 05:44:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67492.D\8260624W6.rslt\spectra.d
Injection Date: 09-Jul-2018 17:40:30
Spectrum: Tune Spec :Scan 87(3.39)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 177

m/z	Y	m/z	Y	m/z	Y	m/z	Y
69.00	6730	127.10	143	192.80	86	362.90	51
70.20	509	128.10	92	195.00	89	366.00	67
71.00	63	128.90	188	198.60	68	371.40	137
72.10	446	130.00	308	201.60	53	373.50	123
73.10	2481	131.30	116	207.00	809	374.90	54
74.00	9875	133.50	76	209.70	52	375.70	53
75.00	28480	133.70	76	210.30	85	377.90	72
76.00	2093	134.60	312	218.00	126	381.20	80
76.90	237	136.20	73	219.10	75	389.90	92
77.60	302	136.80	105	220.30	112		
78.20	226	139.10	84	228.80	71		
78.90	1009	141.10	533	231.70	109		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jul-2018 06:12:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075172-001
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 12:41:42 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 12:41:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 133 BFB	95	3.392	3.392	0.000	90	69048	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

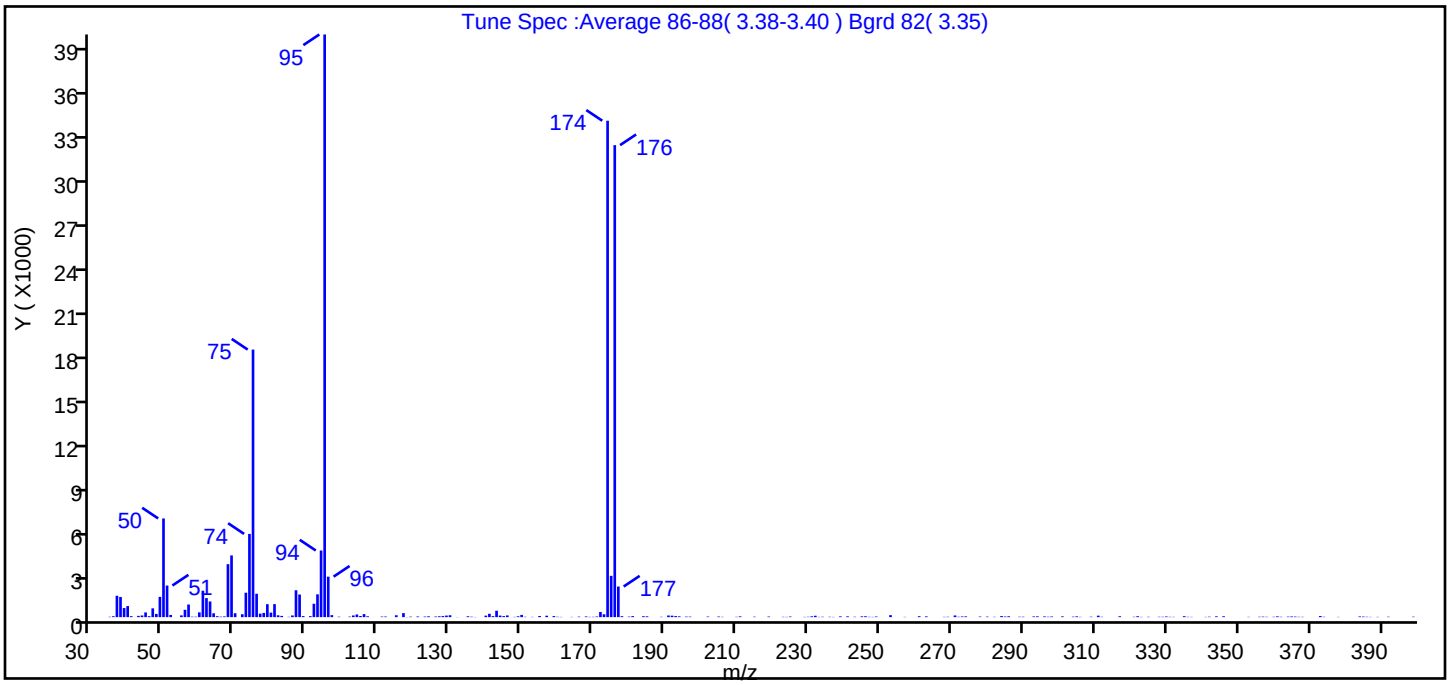
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D
Injection Date: 10-Jul-2018 06:12:30 Instrument ID: CVOAMS6
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 133 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.9
75	30 to 60% of m/z 95	45.9
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	85.2
175	5 to 9% of m/z 174	7.1 (8.3)
176	Greater than 95% but less than 101% of m/z 174	81.0 (95.1)
177	5 to 9% of m/z 176	5.3 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D\8260624W6.rslt\spectra.d
Injection Date: 10-Jul-2018 06:12:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	24	95.00	39512	175.00	2801	285.00	41
36.00	60	96.00	2745	176.00	32008	286.00	59
37.00	1449	97.00	136	177.00	2076	289.00	27
38.00	1369	99.00	29	178.00	64	290.00	29
39.00	617	102.00	35	180.00	35	293.00	48
40.00	750	103.00	113	181.00	69	294.00	54
41.00	65	104.00	182	184.00	61	296.00	49
43.00	87	105.00	79	185.00	55	297.00	28
44.00	112	106.00	205	189.00	21	298.00	43
45.00	320	107.00	57	191.00	111	301.00	51
46.00	65	111.00	38	192.00	99	304.00	33
47.00	598	112.00	41	193.00	72	305.00	54
48.00	220	115.00	128	194.00	54	306.00	19
49.00	1377	117.00	274	196.00	37	309.00	29
50.00	6693	118.00	11	197.00	35	311.00	99
51.00	2144	119.00	34	202.00	39	312.00	24
52.00	146	121.00	45	205.00	41	317.00	60
55.00	119	123.00	38	206.00	20	321.00	24
56.00	498	124.00	57	210.00	22	322.00	62
57.00	857	126.00	41	211.00	53	323.00	18
58.00	31	127.00	59	215.00	31	325.00	24
59.00	29	128.00	72	219.00	41	328.00	26
60.00	323	129.00	107	223.00	22	329.00	25
61.00	1793	130.00	128	224.00	17	330.00	45
62.00	1294	132.00	10	225.00	41	331.00	22
63.00	1063	135.00	59	229.00	18	332.00	19
64.00	261	136.00	28	230.00	24	335.00	64
65.00	64	137.00	12	231.00	56	336.00	23
66.00	33	140.00	103	232.00	95	337.00	17
67.00	49	141.00	227	233.00	17	341.00	17
68.00	3593	142.00	68	234.00	26	342.00	31
69.00	4186	143.00	434	236.00	25	344.00	55
70.00	265	144.00	106	237.00	16	346.00	59

Report Date: 10-Jul-2018 12:41:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67524.D\8260624W6.rslt\spectra.d
Injection Date: 10-Jul-2018 06:12:30
Spectrum: Tune Spec :Average 86-88(3.38-3.40) Bgrd 82(3.35)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 220

m/z	Y	m/z	Y	m/z	Y	m/z	Y
71.00	1	145.00	71	239.00	52	353.00	19
72.00	197	146.00	116	241.00	54	356.00	27
73.00	1657	147.00	3	243.00	26	357.00	35
74.00	5644	148.00	18	245.00	53	358.00	24
75.00	18144	149.00	57	246.00	60	360.00	24
76.00	1586	150.00	151	247.00	22	361.00	53
77.00	238	151.00	24	248.00	17	362.00	24
78.00	285	153.00	18	249.00	42	364.00	34
79.00	880	155.00	77	253.00	134	365.00	45
80.00	306	157.00	96	257.00	17	366.00	38
81.00	882	159.00	73	261.00	64	367.00	23
82.00	124	160.00	24	263.00	52	368.00	22
83.00	85	161.00	16	268.00	20	373.00	74
85.00	21	164.00	16	269.00	25	374.00	24
86.00	114	166.00	35	271.00	114	378.00	17
87.00	1824	168.00	48	272.00	24	384.00	46
88.00	1534	169.00	19	273.00	45	385.00	39
89.00	71	170.00	22	274.00	52	386.00	24
91.00	66	171.00	42	278.00	39	387.00	17
92.00	908	172.00	351	280.00	36	389.00	18
93.00	1547	173.00	193	282.00	22	392.00	29
94.00	4520	174.00	33664	284.00	72	399.00	31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534740/9

Matrix: Water | Lab File ID: F67500.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534740/9

Matrix: Water | Lab File ID: F67500.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 20:53

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		74-132
460-00-4	4-Bromofluorobenzene	100		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 09-Jul-2018 20:53:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075142-009
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:38:31 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:54:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	133811	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	149347	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	95	101338	50.0	54.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	97251	50.0	49.1	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	372443	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.019	6.028	-0.009	0	11252	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.973	0.008	99	345171	50.0	51.1	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	244887	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	94	99081	50.0	50.1	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	96	136955	50.0	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

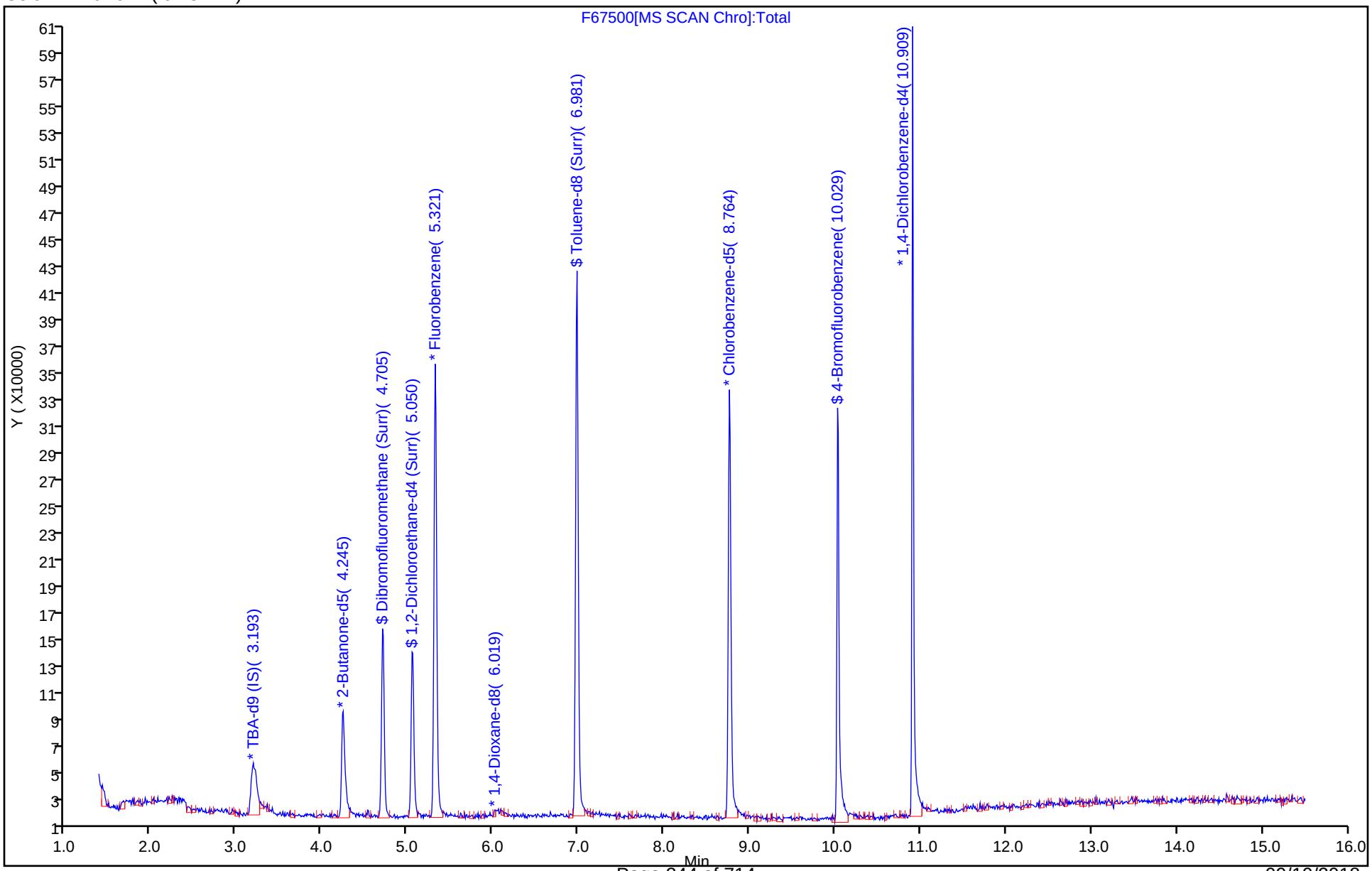
Report Date: 10-Jul-2018 06:54:21 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D

Injection Date:	09-Jul-2018 20:53:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



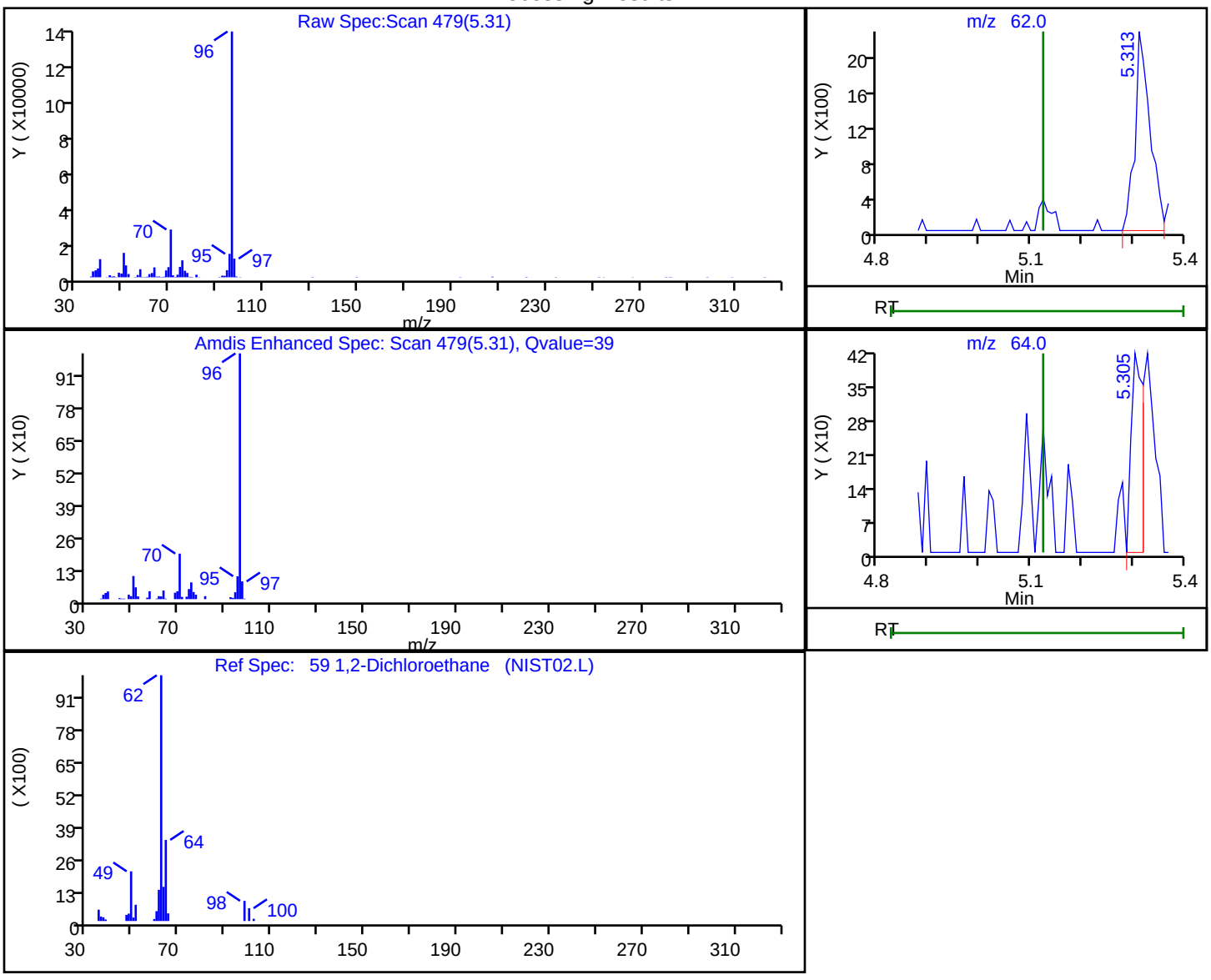
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67500.D
Injection Date: 09-Jul-2018 20:53:30 Instrument ID: CVOAMS6
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.31	62.00	4653	0.844749
5.30	64.00	668	

Reviewer: moroneyc, 10-Jul-2018 06:26:48
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534889/8

Matrix: Water | Lab File ID: F67531.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534889/8

Matrix: Water | Lab File ID: F67531.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 08:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67531.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Jul-2018 08:59:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075172-008
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:40:53 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:40:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	130292	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.245	4.236	0.009	0	141829	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.713	4.705	0.008	97	94286	50.0	51.8	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	98371	50.0	50.6	
* 61 Fluorobenzene	96	5.329	5.321	0.008	99	365448	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	11293	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	333152	50.0	50.0	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	241867	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.038	10.029	0.009	96	93084	50.0	47.7	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	95	134703	50.0	50.0	

Reagents:

VOA6IS/SURR_00011 Amount Added: 5.00 Units: uL Run Reagent

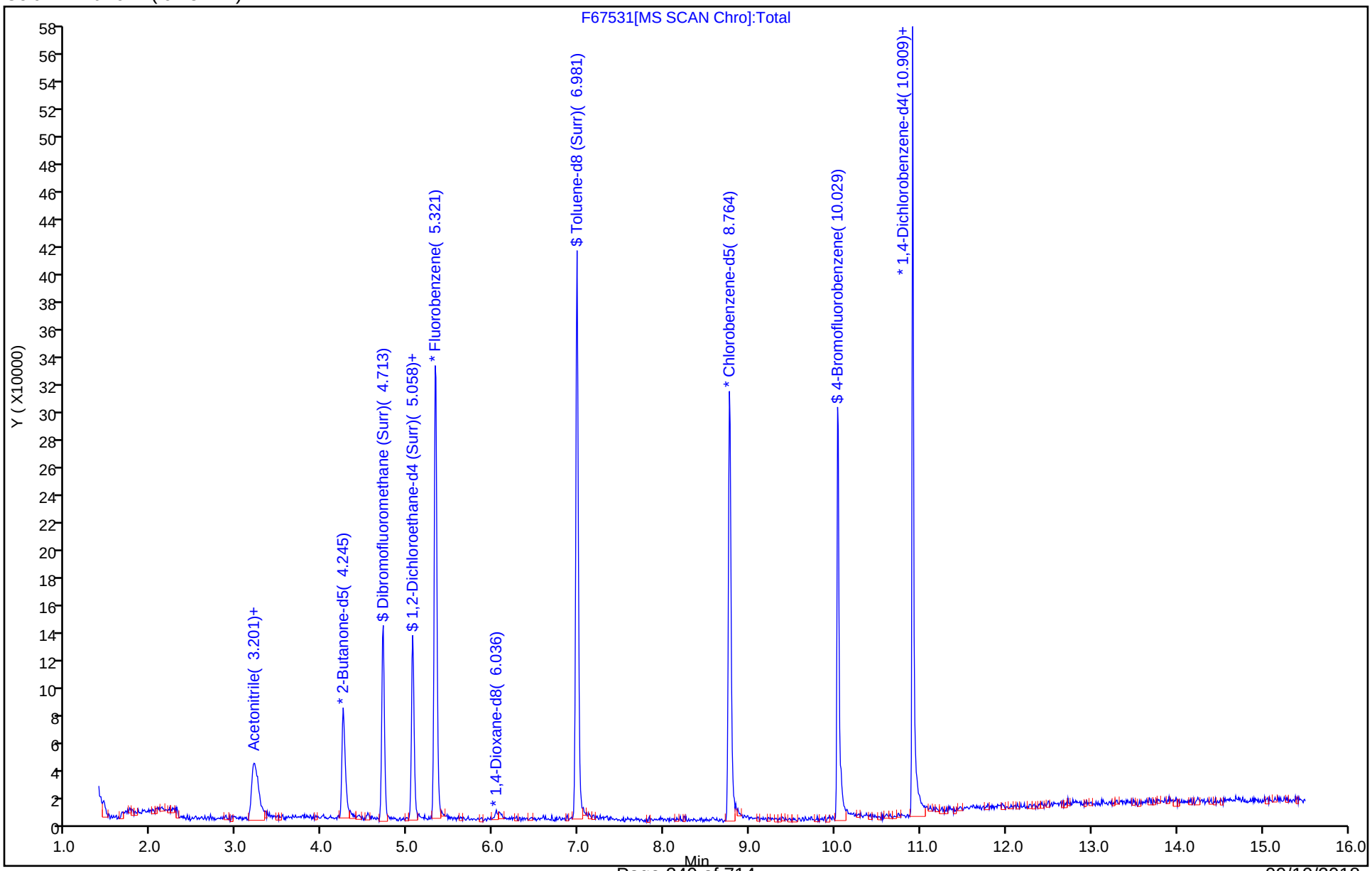
Report Date: 10-Jul-2018 13:40:55 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67531.D

Injection Date:	10-Jul-2018 08:59:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534740/4

Matrix: Water | Lab File ID: F67495.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	21.8		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	18.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.2		1.0	0.43
75-34-3	1,1-Dichloroethane	19.5		1.0	0.26
75-35-4	1,1-Dichloroethene	18.7		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	21.8		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	22.2		1.0	0.38
95-50-1	1,2-Dichlorobenzene	21.6		1.0	0.43
107-06-2	1,2-Dichloroethane	18.7		1.0	0.43
78-87-5	1,2-Dichloropropane	19.3		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.8		1.0	0.34
106-46-7	1,4-Dichlorobenzene	21.2		1.0	0.76
78-93-3	2-Butanone (MEK)	95.4		5.0	1.9
591-78-6	2-Hexanone	97.2		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	109		5.0	2.7
67-64-1	Acetone	107		5.0	5.0
71-43-2	Benzene	20.2		1.0	0.43
75-25-2	Bromoform	20.0		1.0	0.54
74-83-9	Bromomethane	17.4		1.0	1.0
75-15-0	Carbon disulfide	17.9		1.0	0.16
56-23-5	Carbon tetrachloride	19.1		1.0	0.21
108-90-7	Chlorobenzene	19.6		1.0	0.38
124-48-1	Dibromochloromethane	19.7		1.0	0.28
75-00-3	Chloroethane	18.2		1.0	0.32
67-66-3	Chloroform	19.4		1.0	0.33
74-87-3	Chloromethane	19.3		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.1		1.0	0.22
110-82-7	Cyclohexane	19.1		1.0	0.32
75-27-4	Bromodichloromethane	18.6		1.0	0.34
75-71-8	Dichlorodifluoromethane	18.7		1.0	0.12
100-41-4	Ethylbenzene	19.1		1.0	0.30
106-93-4	1,2-Dibromoethane	20.7		1.0	0.50
98-82-8	Isopropylbenzene	21.1		1.0	0.34
79-20-9	Methyl acetate	42.2		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534740/4

Matrix: Water | Lab File ID: F67495.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 18:55

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.3		1.0	0.47
108-87-2	Methylcyclohexane	18.8		1.0	0.26
75-09-2	Methylene Chloride	18.7		1.0	0.32
127-18-4	Tetrachloroethene	19.7		1.0	0.25
108-88-3	Toluene	20.0		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.1		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.1		1.0	0.49
79-01-6	Trichloroethene	18.1		1.0	0.31
75-69-4	Trichlorofluoromethane	18.2		1.0	0.14
75-01-4	Vinyl chloride	19.0		1.0	0.17
1330-20-7	Xylenes, Total	39.1		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.9		1.0	0.46
100-42-5	Styrene	20.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	102		80-120
1868-53-7	Dibromofluoromethane (Surr)	100		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67495.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 09-Jul-2018 18:55:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075142-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: parekhv Date: 09-Jul-2018 19:18:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	89	54418	20.0	18.3	
2 Dichlorodifluoromethane	85	1.558	1.558	0.000	99	133941	20.0	18.7	
3 Chloromethane	50	1.738	1.738	0.000	98	169168	20.0	19.3	
5 Butadiene	54	1.829	1.829	0.000	96	146387	20.0	18.4	
4 Vinyl chloride	62	1.829	1.829	0.000	98	166093	20.0	19.0	
6 Bromomethane	94	2.108	2.108	0.000	99	105411	20.0	17.4	
7 Chloroethane	64	2.174	2.166	0.008	100	94828	20.0	18.2	
8 Dichlorofluoromethane	67	2.347	2.346	0.000	98	207731	20.0	18.8	
10 Pentane	72	2.355	2.355	0.000	97	33097	40.0	34.9	
9 Trichlorofluoromethane	101	2.355	2.363	-0.008	65	147428	20.0	18.2	
11 Ethanol	46	2.552	2.535	0.017	69	9078	800.0	761.0	
12 Ethyl ether	59	2.544	2.544	0.000	93	75152	20.0	20.8	
13 2-Methyl-1,3-butadiene	53	2.568	2.560	0.008	95	79704	20.0	18.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.626	2.609	0.017	91	80596	20.0	18.7	
15 Acrolein	56	2.724	2.724	0.000	32	7919	40.0	27.2	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	97	94697	20.0	18.9	
17 1,1-Dichloroethene	96	2.757	2.749	0.008	98	87240	20.0	18.7	
18 Acetone	43	2.840	2.839	0.001	88	105784	100.0	106.8	
19 Iodomethane	142	2.905	2.905	0.000	97	159511	20.0	19.0	
20 Isopropyl alcohol	45	2.930	2.930	0.000	27	32203	200.0	183.5	
21 Carbon disulfide	76	2.946	2.946	0.000	99	333670	20.0	17.9	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	99	174048	20.0	19.5	
24 Methyl acetate	43	3.070	3.070	0.000	99	113995	40.0	42.2	
23 Cyclopentene	67	3.086	3.078	0.008	96	230939	20.0	19.5	
25 Acetonitrile	41	3.152	3.135	0.017	57	106505	200.0	206.0	
27 Methylene Chloride	84	3.193	3.185	0.008	92	107442	20.0	18.7	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	150018	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.250	3.275	-0.025	91	62301	200.0	197.5	
29 Methyl tert-butyl ether	73	3.349	3.341	0.008	97	280658	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.374	3.365	0.009	93	103360	20.0	20.1	
31 Acrylonitrile	53	3.448	3.439	0.009	95	335983	200.0	218.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.522	3.513	0.009	91	75088	20.0	17.9	
33 Isopropyl ether	45	3.719	3.719	0.000	96	315094	20.0	20.0	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	178826	20.0	19.5	
35 Vinyl acetate	86	3.776	3.768	0.008	100	32659	40.0	36.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	84798	20.0	18.7	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	90	295465	20.0	20.0	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	173705	250.0	250.0	
39 2,2-Dichloropropane	97	4.269	4.261	0.008	93	36648	20.0	19.0	
40 cis-1,2-Dichloroethene	96	4.277	4.269	0.008	96	110421	20.0	19.1	
42 Ethyl acetate	70	4.286	4.286	0.000	94	17474	40.0	38.0	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	97	43934	100.0	95.4	
43 Methyl acrylate	55	4.343	4.343	0.000	56	65117	20.0	21.9	
44 Propionitrile	54	4.425	4.417	0.008	98	117171	200.0	209.9	
45 Chlorobromomethane	128	4.499	4.491	0.008	92	50819	20.0	19.0	
46 Tetrahydrofuran	72	4.499	4.499	0.000	60	22620	40.0	43.2	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	352938	200.0	210.8	
48 Chloroform	83	4.549	4.549	0.000	99	160714	20.0	19.4	
49 Cyclohexane	84	4.680	4.680	0.000	90	147017	20.0	19.1	
50 1,1,1-Trichloroethane	97	4.697	4.688	0.009	97	136405	20.0	18.5	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	96	100051	50.0	49.8	
52 Carbon tetrachloride	117	4.820	4.812	0.008	94	114172	20.0	19.1	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	124131	20.0	19.0	
54 Isobutyl alcohol	43	4.992	4.992	0.000	34	109811	500.0	432.6	a
55 Benzene	78	5.033	5.033	0.000	95	390319	20.0	20.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	107229	50.0	50.0	
57 Isopropyl acetate	43	5.091	5.083	0.008	96	247278	20.0	20.9	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	92	320922	20.0	20.4	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	96	111379	20.0	18.7	
60 n-Heptane	57	5.181	5.173	0.008	90	70507	20.0	19.5	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	402880	50.0	50.0	
62 n-Butanol	56	5.658	5.641	0.017	36	22731	500.0	300.3	
63 Trichloroethene	95	5.674	5.666	0.008	99	89765	20.0	18.1	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	213610	20.0	19.8	
64 Methylcyclohexane	83	5.798	5.789	0.009	87	164713	20.0	18.8	
66 1,2-Dichloropropane	63	5.962	5.954	0.008	95	99307	20.0	19.3	
68 Methyl methacrylate	100	6.028	6.028	0.000	88	42865	40.0	41.3	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	12144	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	97	96673	20.0	20.2	
71 Dibromomethane	93	6.085	6.085	0.000	80	54053	20.0	18.5	
69 1,4-Dioxane	88	6.077	6.093	-0.016	61	12568	400.0	542.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	116089	20.0	18.6	
73 2-Nitropropane	41	6.570	6.562	0.008	80	34443	40.0	38.6	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	77	45288	20.0	20.1	
75 Epichlorohydrin	57	6.685	6.677	0.008	99	143506	400.0	412.5	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	89	139641	20.0	19.9	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.890	0.009	95	386511	100.0	108.8	
$ 78 Toluene-d8 (Surr)	98	6.973	6.973	0.000	99	386958	50.0	50.8	
79 Toluene	91	7.055	7.055	0.000	94	389297	20.0	20.0	
80 trans-1,3-Dichloropropene	75	7.408	7.400	0.008	96	111623	20.0	19.1	
81 Ethyl methacrylate	69	7.433	7.424	0.009	87	103487	20.0	21.6	
82 1,1,2-Trichloroethane	83	7.622	7.613	0.009	95	65586	20.0	20.2	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	93656	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	126538	20.0	20.6	
85 2-Hexanone	43	7.893	7.893	0.000	94	203385	100.0	97.2	
86 n-Butyl acetate	43	8.008	8.008	0.000	99	117517	20.0	21.4	
87 Chlorodibromomethane	129	8.065	8.057	0.008	98	82702	20.0	19.7	
88 Ethylene Dibromide	107	8.222	8.213	0.009	95	73439	20.0	20.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	276311	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	96	241115	20.0	19.6	
91 Ethylbenzene	106	8.895	8.895	0.000	98	135443	20.0	19.1	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.912	0.008	96	90092	20.0	19.4	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	165298	20.0	19.6	
94 n-Butyl acrylate	73	9.495	9.487	0.008	98	61718	20.0	19.4	
95 o-Xylene	106	9.503	9.503	0.000	94	170723	20.0	19.5	
96 Styrene	104	9.536	9.536	0.000	97	271989	20.0	20.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	140580	20.0	21.3	
98 Bromoform	173	9.742	9.742	0.000	97	53938	20.0	20.0	
99 Isopropylbenzene	105	9.849	9.848	0.001	96	441961	20.0	21.1	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	92	109652	50.0	49.2	
101 Bromobenzene	156	10.144	10.144	0.000	98	109946	20.0	21.0	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	96	107854	20.0	21.8	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	515870	20.0	21.5	
104 1,2,3-Trichloropropane	110	10.227	10.226	0.001	96	29663	20.0	21.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	92	24122	20.0	21.7	
106 2-Chlorotoluene	91	10.292	10.292	0.000	90	359521	20.0	21.2	
107 4-Ethyltoluene	105	10.300	10.300	0.000	89	440455	20.0	22.2	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	93	376051	20.0	21.5	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	322845	20.0	21.5	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	125435	20.0	21.3	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	294008	20.0	20.9	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	390871	20.0	22.0	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	472052	20.0	21.7	
114 4-Isopropyltoluene	119	10.851	10.851	0.000	98	405394	20.0	22.1	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	96	214188	20.0	20.8	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.908	0.001	94	151795	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	224925	20.0	21.2	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	411797	20.0	21.8	
118 Benzyl chloride	91	11.024	11.024	0.000	99	220670	20.0	23.4	
119 2,3-Dihydroindene	117	11.073	11.073	0.000	94	421407	20.0	22.2	
120 p-Diethylbenzene	119	11.106	11.106	0.000	93	250847	20.0	22.2	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	225725	20.0	21.6	
122 1,2-Dichlorobenzene	146	11.180	11.180	0.000	96	222306	20.0	21.6	
123 1,2,4,5-Tetramethylbenzene	119	11.599	11.599	0.000	98	382206	20.0	21.7	
124 1,2-Dibromo-3-Chloropropan	75	11.681	11.673	0.008	95	20263	20.0	22.2	
125 1,3,5-Trichlorobenzene	180	11.763	11.755	0.008	98	174655	20.0	21.7	
126 1,2,4-Trichlorobenzene	180	12.166	12.166	0.000	94	155861	20.0	21.8	
127 Hexachlorobutadiene	225	12.223	12.223	0.000	95	65732	20.0	19.4	
128 Naphthalene	128	12.338	12.330	0.008	99	365681	20.0	24.2	
129 1,2,3-Trichlorobenzene	180	12.503	12.503	0.000	95	143898	20.0	21.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.1	
S 131 Xylenes, Total	100				0		40.0	39.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 06:34:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67495.D

Injection Date: 09-Jul-2018 18:55:30 Instrument ID: CVOAMS6 Operator ID:

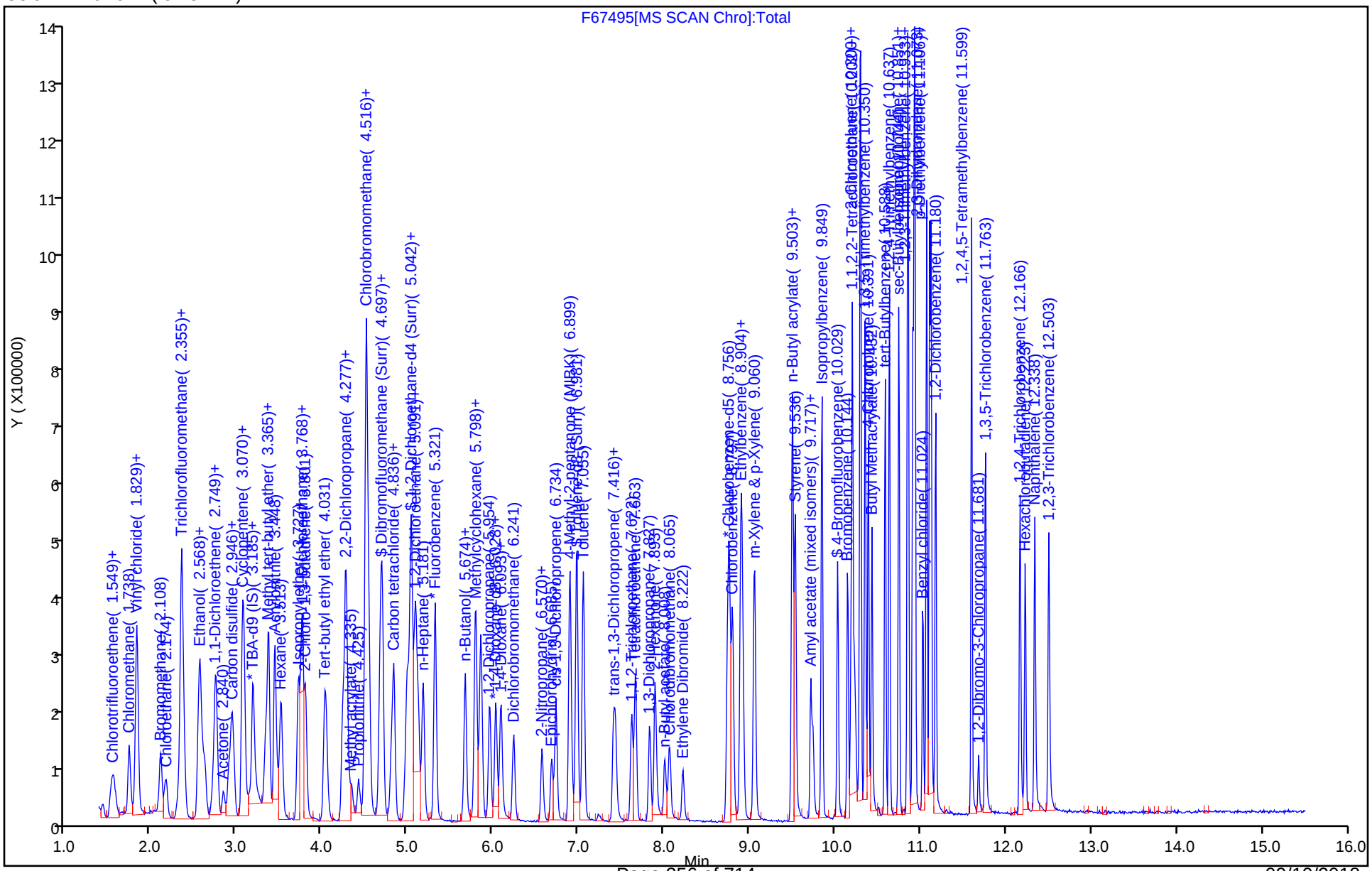
Lims ID: LCS Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534889/4

Matrix: Water | Lab File ID: F67527.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.1		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.5		1.0	0.43
75-34-3	1,1-Dichloroethane	19.9		1.0	0.26
75-35-4	1,1-Dichloroethene	20.0		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	17.7		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.6		1.0	0.43
107-06-2	1,2-Dichloroethane	18.0		1.0	0.43
78-87-5	1,2-Dichloropropane	19.6		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.3		1.0	0.34
106-46-7	1,4-Dichlorobenzene	20.1		1.0	0.76
78-93-3	2-Butanone (MEK)	98.4		5.0	1.9
591-78-6	2-Hexanone	92.0		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	2.7
67-64-1	Acetone	98.1		5.0	5.0
71-43-2	Benzene	20.7		1.0	0.43
75-25-2	Bromoform	19.5		1.0	0.54
74-83-9	Bromomethane	20.1		1.0	1.0
75-15-0	Carbon disulfide	19.8		1.0	0.16
56-23-5	Carbon tetrachloride	20.3		1.0	0.21
108-90-7	Chlorobenzene	19.8		1.0	0.38
124-48-1	Dibromochloromethane	19.0		1.0	0.28
75-00-3	Chloroethane	18.9		1.0	0.32
67-66-3	Chloroform	20.2		1.0	0.33
74-87-3	Chloromethane	19.9		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	20.5		1.0	0.22
110-82-7	Cyclohexane	21.2		1.0	0.32
75-27-4	Bromodichloromethane	18.9		1.0	0.34
75-71-8	Dichlorodifluoromethane	21.7		1.0	0.12
100-41-4	Ethylbenzene	19.3		1.0	0.30
106-93-4	1,2-Dibromoethane	19.7		1.0	0.50
98-82-8	Isopropylbenzene	21.2		1.0	0.34
79-20-9	Methyl acetate	40.1		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534889/4

Matrix: Water | Lab File ID: F67527.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:24

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.2		1.0	0.47
108-87-2	Methylcyclohexane	21.7		1.0	0.26
75-09-2	Methylene Chloride	19.6		1.0	0.32
127-18-4	Tetrachloroethene	20.4		1.0	0.25
108-88-3	Toluene	20.2		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.9		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.1		1.0	0.49
79-01-6	Trichloroethene	19.4		1.0	0.31
75-69-4	Trichlorofluoromethane	21.3		1.0	0.14
75-01-4	Vinyl chloride	20.7		1.0	0.17
1330-20-7	Xylenes, Total	40.0		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.4		1.0	0.46
100-42-5	Styrene	20.5		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67527.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Jul-2018 07:24:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075172-004
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:38:01 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: moroneyc Date: 10-Jul-2018 07:47:57

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.541	1.533	0.008	87	62579	20.0	23.0	
2 Dichlorodifluoromethane	85	1.566	1.582	-0.016	99	142613	20.0	21.7	
3 Chloromethane	50	1.747	1.747	0.000	98	160040	20.0	19.9	
5 Butadiene	54	1.837	1.837	0.000	95	151755	20.0	20.8	
4 Vinyl chloride	62	1.829	1.837	-0.008	97	166012	20.0	20.7	
6 Bromomethane	94	2.108	2.116	-0.008	99	111450	20.0	20.1	
7 Chloroethane	64	2.174	2.174	0.000	99	90381	20.0	18.9	
8 Dichlorofluoromethane	67	2.355	2.355	0.000	98	207069	20.0	20.4	
10 Pentane	72	2.355	2.363	-0.008	98	35192	40.0	49.9	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	56	158306	20.0	21.3	
11 Ethanol	46	2.560	2.552	0.008	71	4561	800.0	513.9	
12 Ethyl ether	59	2.552	2.552	0.000	93	65719	20.0	19.8	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	91	79605	20.0	20.6	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.626	-0.008	92	82670	20.0	20.9	
15 Acrolein	56	2.741	2.733	0.008	31	7112	40.0	32.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.749	-0.008	97	96783	20.0	21.0	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	97	85389	20.0	20.0	
18 Acetone	43	2.848	2.848	0.000	88	82577	100.0	98.1	
19 Iodomethane	142	2.913	2.914	-0.001	96	153891	20.0	19.9	
20 Isopropyl alcohol	45	2.946	2.930	0.016	26	27088	200.0	207.5	
21 Carbon disulfide	76	2.946	2.946	0.000	99	339113	20.0	19.8	
22 3-Chloro-1-propene	41	3.061	3.070	-0.009	95	161398	20.0	19.7	
24 Methyl acetate	43	3.078	3.078	0.000	55	99453	40.0	40.1	
23 Cyclopentene	67	3.086	3.086	0.000	93	238134	20.0	21.9	
25 Acetonitrile	41	3.152	3.152	0.000	96	92271	200.0	239.9	
27 Methylene Chloride	84	3.185	3.193	-0.008	90	103294	20.0	19.6	
* 26 TBA-d9 (IS)	65	3.201	3.201	0.000	0	111600	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.283	3.259	0.024	94	44776	200.0	190.8	M
29 Methyl tert-butyl ether	73	3.349	3.349	0.000	97	242923	20.0	19.2	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	94066	20.0	19.9	
31 Acrylonitrile	53	3.448	3.448	0.000	96	294793	200.0	208.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.521	3.522	-0.001	91	82320	20.0	21.4	
33 Isopropyl ether	45	3.727	3.727	0.000	97	288134	20.0	19.9	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	167521	20.0	19.9	
35 Vinyl acetate	86	3.768	3.776	-0.008	100	31312	40.0	38.5	
36 2-Chloro-1,3-butadiene	88	3.809	3.809	0.000	90	83897	20.0	20.1	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	263115	20.0	19.4	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	147661	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.253	0.008	86	35690	20.0	20.1	
40 cis-1,2-Dichloroethene	96	4.277	4.278	-0.001	97	109138	20.0	20.5	
42 Ethyl acetate	70	4.294	4.286	0.008	95	14084	40.0	36.1	
41 2-Butanone (MEK)	72	4.294	4.286	0.008	96	38494	100.0	98.4	
43 Methyl acrylate	55	4.351	4.343	0.008	98	55308	20.0	20.0	a
44 Propionitrile	54	4.425	4.425	0.000	98	98834	200.0	238.0	
45 Chlorobromomethane	128	4.499	4.499	0.000	89	48578	20.0	19.8	
46 Tetrahydrofuran	72	4.499	4.508	-0.009	52	15688	40.0	35.0	
47 Methacrylonitrile	67	4.516	4.524	-0.008	90	298684	200.0	194.3	
48 Chloroform	83	4.549	4.549	0.000	99	153181	20.0	20.2	
49 Cyclohexane	84	4.688	4.680	0.008	91	150221	20.0	21.2	
50 1,1,1-Trichloroethane	97	4.696	4.697	-0.001	98	135760	20.0	20.1	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	94135	50.0	51.1	
52 Carbon tetrachloride	117	4.820	4.812	0.008	98	111577	20.0	20.3	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	97	120238	20.0	20.1	
54 Isobutyl alcohol	43	4.992	4.992	0.000	87	98697	500.0	522.7	
55 Benzene	78	5.033	5.033	0.000	95	373078	20.0	20.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.058	5.050	0.008	0	90738	50.0	46.1	
57 Isopropyl acetate	43	5.091	5.091	0.000	79	209052	20.0	19.3	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	98	279192	20.0	19.3	
59 1,2-Dichloroethane	62	5.132	5.124	0.008	95	98474	20.0	18.0	
60 n-Heptane	57	5.181	5.181	0.000	91	70697	20.0	21.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	369968	50.0	50.0	
62 n-Butanol	56	5.658	5.650	0.008	36	18312	500.0	325.1	
63 Trichloroethene	95	5.674	5.674	0.000	98	88391	20.0	19.4	
65 Ethyl acrylate	55	5.798	5.789	0.009	93	198192	20.0	20.0	
64 Methylcyclohexane	83	5.798	5.798	0.000	91	174786	20.0	21.7	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	92584	20.0	19.6	
* 67 1,4-Dioxane-d8	96	6.036	6.019	0.017	0	9519	1000.0	1000.0	
68 Methyl methacrylate	100	6.028	6.036	-0.008	89	34801	40.0	36.6	
70 n-Propyl acetate	43	6.085	6.085	0.000	96	83495	20.0	19.0	
71 Dibromomethane	93	6.093	6.093	0.000	94	50535	20.0	18.8	
69 1,4-Dioxane	88	6.085	6.093	-0.008	25	9528	400.0	524.4	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	108670	20.0	18.9	
73 2-Nitropropane	41	6.570	6.570	0.000	81	26039	40.0	31.8	
74 2-Chloroethyl vinyl ether	63	6.570	6.578	-0.008	76	36304	20.0	17.6	
75 Epichlorohydrin	57	6.685	6.685	0.000	99	115058	400.0	389.1	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	89	126757	20.0	19.4	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	323949	100.0	107.3	
$ 78 Toluene-d8 (Surr)	98	6.981	6.981	0.000	100	354841	50.0	49.9	
79 Toluene	91	7.055	7.055	0.000	93	367058	20.0	20.2	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	104108	20.0	19.1	
81 Ethyl methacrylate	69	7.433	7.433	0.000	87	89878	20.0	20.1	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	59185	20.0	19.5	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	90526	20.0	20.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.835	7.827	0.008	91	112919	20.0	19.7	
85 2-Hexanone	43	7.901	7.893	0.008	95	163369	100.0	92.0	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	96509	20.0	18.9	
87 Chlorodibromomethane	129	8.065	8.066	-0.001	97	74544	20.0	19.0	
88 Ethylene Dibromide	107	8.222	8.222	0.000	99	65159	20.0	19.7	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	84	257849	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	226907	20.0	19.8	
91 Ethylbenzene	106	8.904	8.895	0.009	98	127502	20.0	19.3	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	97	82941	20.0	19.1	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	157261	20.0	20.0	
94 n-Butyl acrylate	73	9.495	9.495	0.000	98	52782	20.0	17.9	
95 o-Xylene	106	9.503	9.503	0.000	94	163080	20.0	20.0	
96 Styrene	104	9.536	9.536	0.000	96	259206	20.0	20.5	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	121411	20.0	18.8	
98 Bromoform	173	9.742	9.742	0.000	97	49021	20.0	19.5	
99 Isopropylbenzene	105	9.848	9.849	-0.001	95	414743	20.0	21.2	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	102497	50.0	49.2	
101 Bromobenzene	156	10.153	10.153	-0.001	96	101805	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	97	97031	20.0	19.9	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	501036	20.0	21.2	
104 1,2,3-Trichloropropane	110	10.226	10.227	-0.001	92	26512	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	82	19282	20.0	17.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	90	339088	20.0	20.3	
107 4-Ethyltoluene	105	10.300	10.301	0.000	90	418343	20.0	21.4	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	359715	20.0	20.9	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	301276	20.0	20.4	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	107467	20.0	18.6	
111 tert-Butylbenzene	119	10.588	10.588	0.000	94	275209	20.0	19.8	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	365744	20.0	20.9	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	445964	20.0	20.9	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	98	380388	20.0	21.1	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	205477	20.0	20.3	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.909	-0.001	92	149452	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	209972	20.0	20.1	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	383968	20.0	20.6	
118 Benzyl chloride	91	11.024	11.024	0.000	99	188308	20.0	20.3	
119 2,3-Dihydroindene	117	11.065	11.065	0.000	95	385230	20.0	20.6	
120 p-Diethylbenzene	119	11.097	11.098	-0.001	94	229031	20.0	20.6	
121 n-Butylbenzene	92	11.114	11.114	0.000	97	212995	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.171	11.171	0.000	96	208454	20.0	20.6	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.582	0.000	97	353083	20.0	20.4	
124 1,2-Dibromo-3-Chloropropan	75	11.656	11.656	0.000	96	15885	20.0	17.7	
125 1,3,5-Trichlorobenzene	180	11.747	11.747	0.000	98	158369	20.0	20.0	
126 1,2,4-Trichlorobenzene	180	12.149	12.149	0.000	94	138852	20.0	19.7	
127 Hexachlorobutadiene	225	12.207	12.207	0.000	97	66959	20.0	20.1	
128 Naphthalene	128	12.314	12.314	0.000	99	299209	20.0	20.1	
129 1,2,3-Trichlorobenzene	180	12.478	12.478	0.000	96	128409	20.0	19.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.4	
S 131 Xylenes, Total	100				0		40.0	40.0	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

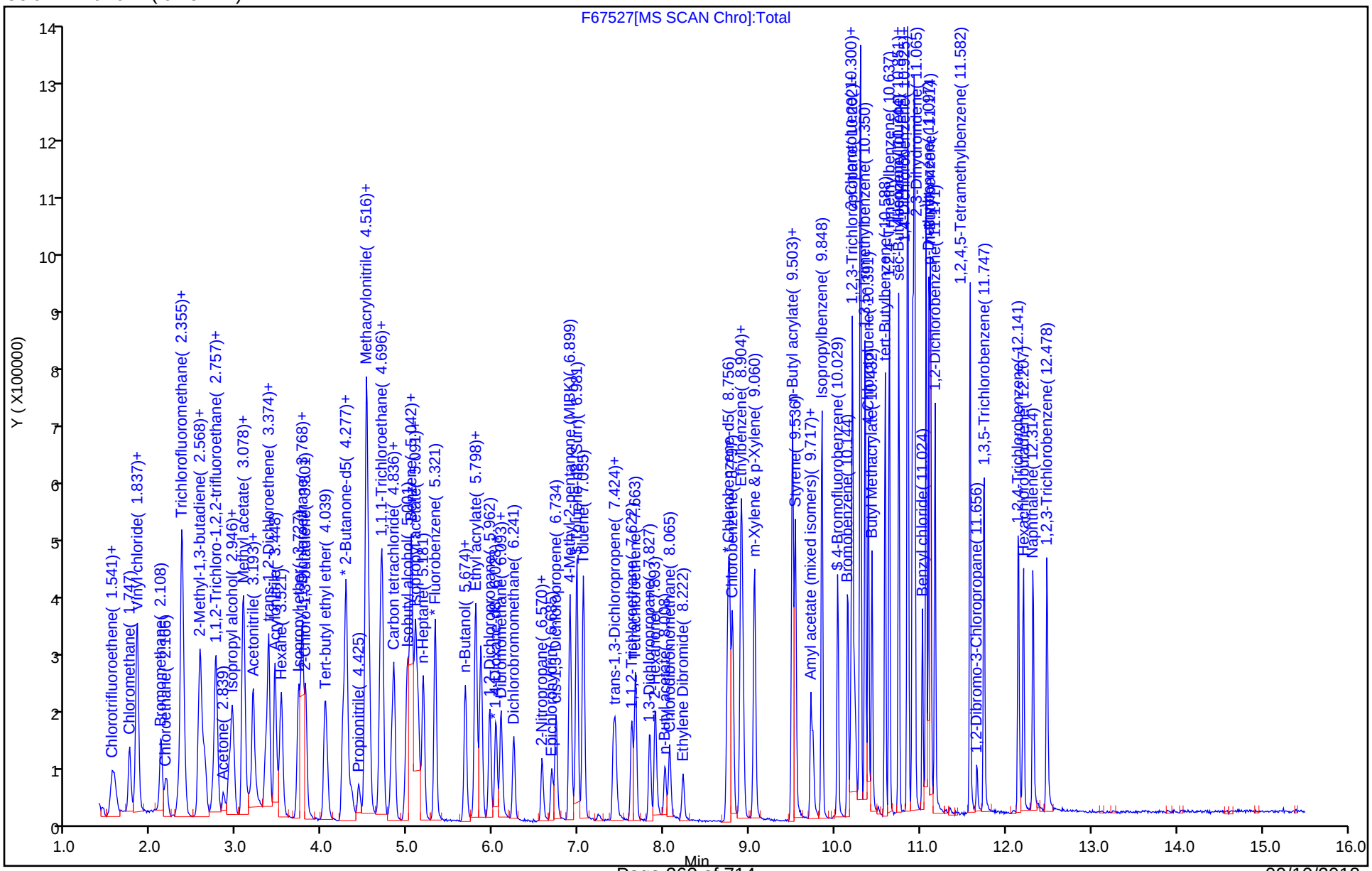
Report Date: 10-Jul-2018 13:38:03 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67527.D

Injection Date:	10-Jul-2018 07:24:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534740/5

Matrix: Water | Lab File ID: F67496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	17.9		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	20.6		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	17.9		1.0	0.31
79-00-5	1,1,2-Trichloroethane	20.1		1.0	0.43
75-34-3	1,1-Dichloroethane	19.1		1.0	0.26
75-35-4	1,1-Dichloroethene	18.2		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.4		1.0	0.43
107-06-2	1,2-Dichloroethane	18.4		1.0	0.43
78-87-5	1,2-Dichloropropane	19.4		1.0	0.35
541-73-1	1,3-Dichlorobenzene	18.7		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.76
78-93-3	2-Butanone (MEK)	94.1		5.0	1.9
591-78-6	2-Hexanone	93.2		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	102		5.0	2.7
67-64-1	Acetone	111		5.0	5.0
71-43-2	Benzene	19.4		1.0	0.43
75-25-2	Bromoform	19.7		1.0	0.54
74-83-9	Bromomethane	18.8		1.0	1.0
75-15-0	Carbon disulfide	17.4		1.0	0.16
56-23-5	Carbon tetrachloride	17.9		1.0	0.21
108-90-7	Chlorobenzene	18.7		1.0	0.38
124-48-1	Dibromochloromethane	18.9		1.0	0.28
75-00-3	Chloroethane	18.6		1.0	0.32
67-66-3	Chloroform	19.6		1.0	0.33
74-87-3	Chloromethane	19.0		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.0		1.0	0.22
110-82-7	Cyclohexane	18.2		1.0	0.32
75-27-4	Bromodichloromethane	19.3		1.0	0.34
75-71-8	Dichlorodifluoromethane	18.5		1.0	0.12
100-41-4	Ethylbenzene	18.2		1.0	0.30
106-93-4	1,2-Dibromoethane	20.2		1.0	0.50
98-82-8	Isopropylbenzene	20.3		1.0	0.34
79-20-9	Methyl acetate	44.0		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534740/5

Matrix: Water | Lab File ID: F67496.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 19:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534740 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.4		1.0	0.47
108-87-2	Methylcyclohexane	18.2		1.0	0.26
75-09-2	Methylene Chloride	19.2		1.0	0.32
127-18-4	Tetrachloroethene	18.8		1.0	0.25
108-88-3	Toluene	19.1		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	18.5		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.0		1.0	0.49
79-01-6	Trichloroethene	17.9		1.0	0.31
75-69-4	Trichlorofluoromethane	18.0		1.0	0.14
75-01-4	Vinyl chloride	18.8		1.0	0.17
1330-20-7	Xylenes, Total	38.2		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.5		1.0	0.46
100-42-5	Styrene	19.7		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
2037-26-5	Toluene-d8 (Surr)	101		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67496.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 09-Jul-2018 19:19:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075142-005
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 06:34:46 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: moroneyc Date: 10-Jul-2018 06:26:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.533	-0.008	89	51230	20.0	18.0	
2 Dichlorodifluoromethane	85	1.566	1.558	0.008	98	126708	20.0	18.5	
3 Chloromethane	50	1.738	1.738	0.000	98	159409	20.0	19.0	
5 Butadiene	54	1.829	1.829	0.000	96	141099	20.0	18.5	
4 Vinyl chloride	62	1.829	1.829	0.000	97	157289	20.0	18.8	
6 Bromomethane	94	2.108	2.108	0.000	99	108834	20.0	18.8	
7 Chloroethane	64	2.166	2.166	0.000	100	92635	20.0	18.6	
8 Dichlorofluoromethane	67	2.346	2.346	0.000	99	200502	20.0	19.0	
10 Pentane	72	2.355	2.355	0.000	95	30515	40.0	33.3	
9 Trichlorofluoromethane	101	2.355	2.363	-0.008	60	139216	20.0	18.0	
11 Ethanol	46	2.544	2.535	0.009	79	5215	800.0	451.8	
12 Ethyl ether	59	2.544	2.544	0.000	94	73203	20.0	21.2	
13 2-Methyl-1,3-butadiene	53	2.560	2.560	0.000	95	73780	20.0	18.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.609	2.609	0.000	88	76643	20.0	18.6	
15 Acrolein	56	2.724	2.724	0.000	32	9103	40.0	32.3	
16 1,1,2-Trichloro-1,2,2-trif	101	2.741	2.741	0.000	96	85783	20.0	17.9	
17 1,1-Dichloroethene	96	2.757	2.749	0.008	98	80911	20.0	18.2	
18 Acetone	43	2.839	2.839	0.000	89	112841	100.0	111.5	
19 Iodomethane	142	2.913	2.905	0.008	98	147448	20.0	18.3	
20 Isopropyl alcohol	45	2.938	2.930	0.008	27	36068	200.0	212.4	
21 Carbon disulfide	76	2.946	2.946	0.000	99	310357	20.0	17.4	
22 3-Chloro-1-propene	41	3.061	3.061	0.000	98	156427	20.0	18.3	
24 Methyl acetate	43	3.069	3.070	-0.001	98	113698	40.0	44.0	
23 Cyclopentene	67	3.078	3.078	0.000	94	210988	20.0	18.6	
25 Acetonitrile	41	3.135	3.135	0.000	95	110234	200.0	220.3	a
27 Methylene Chloride	84	3.184	3.185	-0.001	92	105479	20.0	19.2	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	145161	1000.0	1000.0	
28 2-Methyl-2-propanol	59	3.275	3.275	0.000	96	69010	200.0	226.1	
29 Methyl tert-butyl ether	73	3.341	3.341	0.000	97	269628	20.0	20.4	
30 trans-1,2-Dichloroethene	96	3.373	3.365	0.008	94	91146	20.0	18.5	
31 Acrylonitrile	53	3.439	3.439	0.000	96	336870	200.0	228.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.513	0.000	92	72073	20.0	17.9	
33 Isopropyl ether	45	3.727	3.719	0.008	96	305813	20.0	20.3	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	98	167233	20.0	19.1	
35 Vinyl acetate	86	3.768	3.768	0.000	100	36095	40.0	42.7	
36 2-Chloro-1,3-butadiene	88	3.801	3.801	0.000	90	78704	20.0	18.1	
37 Tert-butyl ethyl ether	59	4.031	4.031	0.000	89	284698	20.0	20.1	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	177548	250.0	250.0	
39 2,2-Dichloropropane	97	4.261	4.261	0.000	77	33498	20.0	18.1	
40 cis-1,2-Dichloroethene	96	4.269	4.269	0.000	96	105566	20.0	19.0	
42 Ethyl acetate	70	4.286	4.286	0.000	96	16762	40.0	35.7	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	96	44294	100.0	94.1	
43 Methyl acrylate	55	4.343	4.343	0.000	98	64231	20.0	22.1	
44 Propionitrile	54	4.425	4.417	0.008	99	112298	200.0	207.9	
45 Chlorobromomethane	128	4.499	4.491	0.008	87	50878	20.0	19.9	
46 Tetrahydrofuran	72	4.499	4.499	0.000	57	21208	40.0	39.6	
47 Methacrylonitrile	67	4.516	4.516	0.000	90	343568	200.0	214.6	
48 Chloroform	83	4.548	4.549	-0.001	99	154840	20.0	19.6	
49 Cyclohexane	84	4.680	4.680	0.000	91	134329	20.0	18.2	
50 1,1,1-Trichloroethane	97	4.688	4.688	0.000	97	126047	20.0	17.9	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	97	98573	50.0	51.3	
52 Carbon tetrachloride	117	4.811	4.812	-0.001	96	102173	20.0	17.9	
53 1,1-Dichloropropene	75	4.836	4.836	0.000	98	111255	20.0	17.8	
54 Isobutyl alcohol	43	4.992	4.992	0.000	32	110049	500.0	448.0	a
55 Benzene	78	5.033	5.033	0.000	97	366779	20.0	19.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	104600	50.0	51.0	
57 Isopropyl acetate	43	5.083	5.083	0.000	76	241361	20.0	21.4	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	97	312406	20.0	20.8	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	104626	20.0	18.4	
60 n-Heptane	57	5.173	5.173	0.000	89	62966	20.0	18.2	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	385357	50.0	50.0	
62 n-Butanol	56	5.650	5.641	0.009	86	27011	500.0	368.3	
63 Trichloroethene	95	5.666	5.666	0.000	98	84857	20.0	17.9	
65 Ethyl acrylate	55	5.789	5.789	0.000	97	202799	20.0	19.7	
64 Methylcyclohexane	83	5.789	5.789	0.000	86	152438	20.0	18.2	
66 1,2-Dichloropropane	63	5.954	5.954	0.000	95	95360	20.0	19.4	
68 Methyl methacrylate	100	6.028	6.028	0.000	88	39815	40.0	40.1	
* 67 1,4-Dioxane-d8	96	6.028	6.028	0.000	0	13097	1000.0	1000.0	
70 n-Propyl acetate	43	6.085	6.085	0.000	96	96075	20.0	21.0	
71 Dibromomethane	93	6.093	6.085	0.008	85	54942	20.0	19.6	
69 1,4-Dioxane	88	6.085	6.093	-0.008	28	13605	400.0	544.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	115282	20.0	19.3	
73 2-Nitropropane	41	6.570	6.562	0.008	80	31855	40.0	37.3	
74 2-Chloroethyl vinyl ether	63	6.570	6.570	0.000	75	41308	20.0	19.2	
75 Epichlorohydrin	57	6.685	6.677	0.008	99	139143	400.0	391.3	
76 cis-1,3-Dichloropropene	75	6.734	6.726	0.008	90	133534	20.0	19.5	
77 4-Methyl-2-pentanone (MIBK	43	6.890	6.890	0.000	95	370019	100.0	101.9	
$ 78 Toluene-d8 (Surr)	98	6.972	6.973	-0.001	99	375616	50.0	50.4	
79 Toluene	91	7.055	7.055	0.000	93	365038	20.0	19.1	
80 trans-1,3-Dichloropropene	75	7.408	7.400	0.008	99	108757	20.0	19.0	
81 Ethyl methacrylate	69	7.433	7.424	0.009	90	100477	20.0	21.5	
82 1,1,2-Trichloroethane	83	7.622	7.613	0.009	96	63928	20.0	20.1	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	87632	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	91	125751	20.0	20.9	
85 2-Hexanone	43	7.893	7.893	0.000	95	199114	100.0	93.2	
86 n-Butyl acetate	43	8.008	8.008	0.000	98	113535	20.0	21.2	
87 Chlorodibromomethane	129	8.065	8.057	0.008	98	77633	20.0	18.9	
88 Ethylene Dibromide	107	8.221	8.213	0.008	97	69934	20.0	20.2	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	86	270437	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	95	224791	20.0	18.7	
91 Ethylbenzene	106	8.895	8.895	0.000	98	126058	20.0	18.2	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.912	0.008	97	88631	20.0	19.5	
93 m-Xylene & p-Xylene	106	9.060	9.060	0.000	0	159736	20.0	19.3	
94 n-Butyl acrylate	73	9.487	9.487	0.000	97	61141	20.0	19.7	
95 o-Xylene	106	9.503	9.503	0.000	94	161611	20.0	18.9	
96 Styrene	104	9.536	9.536	0.000	97	262302	20.0	19.7	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	139962	20.0	20.2	
98 Bromoform	173	9.742	9.742	0.000	97	52007	20.0	19.7	
99 Isopropylbenzene	105	9.848	9.848	0.000	95	416411	20.0	20.3	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	91	111788	50.0	51.2	
101 Bromobenzene	156	10.144	10.144	0.000	98	104281	20.0	18.9	
102 1,1,2,2-Tetrachloroethane	83	10.185	10.185	0.000	99	107326	20.0	20.6	
103 N-Propylbenzene	91	10.202	10.202	0.000	100	484649	20.0	19.1	
104 1,2,3-Trichloropropane	110	10.226	10.226	0.000	95	28148	20.0	19.1	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	78	23107	20.0	19.8	
106 2-Chlorotoluene	91	10.292	10.292	0.000	96	332652	20.0	18.6	
107 4-Ethyltoluene	105	10.300	10.300	0.000	98	415149	20.0	19.9	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	356752	20.0	19.4	
109 4-Chlorotoluene	91	10.391	10.391	0.000	96	299468	20.0	19.0	
110 Butyl Methacrylate	87	10.432	10.432	0.000	88	118330	20.0	19.1	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	270652	20.0	18.2	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	369536	20.0	19.7	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	436178	20.0	19.1	
114 4-Isopropyltoluene	119	10.843	10.851	-0.008	98	370847	20.0	19.2	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	202389	20.0	18.7	
* 116 1,4-Dichlorobenzene-d4	152	10.908	10.908	0.000	93	159938	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	95	214543	20.0	19.2	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	395501	20.0	19.9	
118 Benzyl chloride	91	11.023	11.024	-0.001	99	203250	20.0	20.4	
119 2,3-Dihydroindene	117	11.065	11.073	-0.009	95	401332	20.0	20.1	
120 p-Diethylbenzene	119	11.097	11.106	-0.009	94	230100	20.0	19.3	
121 n-Butylbenzene	92	11.122	11.122	0.000	98	206224	20.0	18.7	
122 1,2-Dichlorobenzene	146	11.171	11.180	-0.009	96	210497	20.0	19.4	
123 1,2,4,5-Tetramethylbenzene	119	11.582	11.599	-0.017	98	365575	20.0	19.7	
124 1,2-Dibromo-3-Chloropropan	75	11.664	11.673	-0.009	95	19220	20.0	20.0	
125 1,3,5-Trichlorobenzene	180	11.747	11.755	-0.009	97	160281	20.0	18.9	
126 1,2,4-Trichlorobenzene	180	12.149	12.166	-0.017	94	147583	20.0	19.6	
127 Hexachlorobutadiene	225	12.207	12.223	-0.016	96	63355	20.0	17.8	
128 Naphthalene	128	12.322	12.330	-0.008	99	354677	20.0	22.3	
129 1,2,3-Trichlorobenzene	180	12.486	12.503	-0.017	96	142298	20.0	19.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	37.5	
S 131 Xylenes, Total	100				0		40.0	38.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

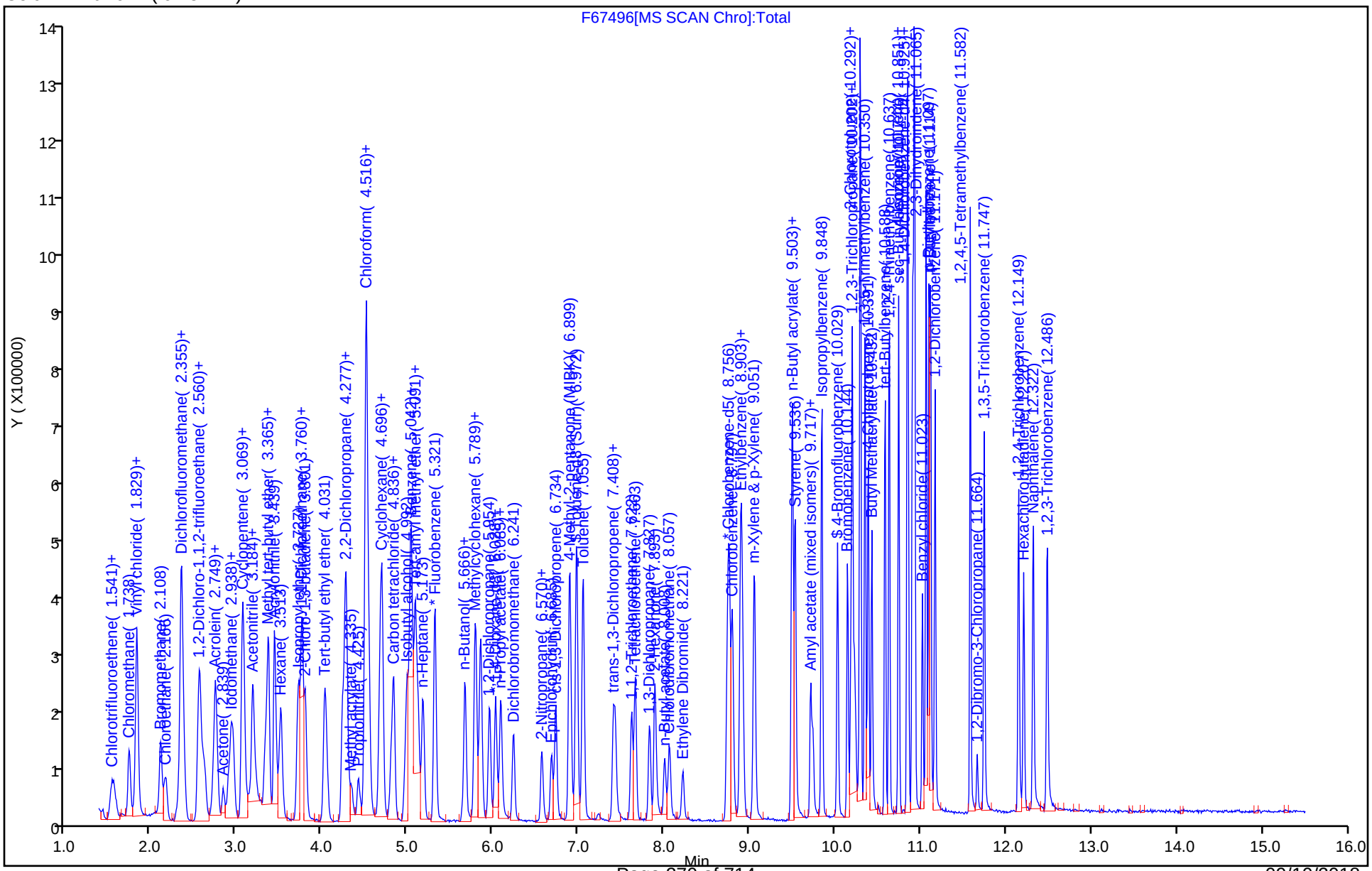
Report Date: 10-Jul-2018 06:35:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180709-75142.b\F67496.D

Injection Date:	09-Jul-2018 19:19:30	Instrument ID:	CVOAMS6	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260624W6	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534889/5

Matrix: Water | Lab File ID: F67528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.4		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.5		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.0		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.1		1.0	0.43
75-34-3	1,1-Dichloroethane	18.8		1.0	0.26
75-35-4	1,1-Dichloroethene	19.3		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	19.6		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	17.6		1.0	0.38
95-50-1	1,2-Dichlorobenzene	20.3		1.0	0.43
107-06-2	1,2-Dichloroethane	17.1		1.0	0.43
78-87-5	1,2-Dichloropropane	19.5		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.9		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.76
78-93-3	2-Butanone (MEK)	93.9		5.0	1.9
591-78-6	2-Hexanone	93.5		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	108		5.0	2.7
67-64-1	Acetone	92.2		5.0	5.0
71-43-2	Benzene	20.1		1.0	0.43
75-25-2	Bromoform	18.7		1.0	0.54
74-83-9	Bromomethane	17.7		1.0	1.0
75-15-0	Carbon disulfide	18.7		1.0	0.16
56-23-5	Carbon tetrachloride	19.8		1.0	0.21
108-90-7	Chlorobenzene	19.2		1.0	0.38
124-48-1	Dibromochloromethane	18.3		1.0	0.28
75-00-3	Chloroethane	18.0		1.0	0.32
67-66-3	Chloroform	19.6		1.0	0.33
74-87-3	Chloromethane	17.5		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	19.4		1.0	0.22
110-82-7	Cyclohexane	20.5		1.0	0.32
75-27-4	Bromodichloromethane	18.4		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.5		1.0	0.12
100-41-4	Ethylbenzene	18.5		1.0	0.30
106-93-4	1,2-Dibromoethane	19.4		1.0	0.50
98-82-8	Isopropylbenzene	20.6		1.0	0.34
79-20-9	Methyl acetate	39.3		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534889/5

Matrix: Water | Lab File ID: F67528.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:48

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534889 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	18.6		1.0	0.47
108-87-2	Methylcyclohexane	20.2		1.0	0.26
75-09-2	Methylene Chloride	19.0		1.0	0.32
127-18-4	Tetrachloroethene	19.8		1.0	0.25
108-88-3	Toluene	19.7		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	18.3		1.0	0.49
79-01-6	Trichloroethene	19.2		1.0	0.31
75-69-4	Trichlorofluoromethane	19.1		1.0	0.14
75-01-4	Vinyl chloride	18.2		1.0	0.17
1330-20-7	Xylenes, Total	38.2		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	18.7		1.0	0.46
100-42-5	Styrene	20.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	101		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 10-Jul-2018 07:48:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075172-005
Operator ID: Instrument ID: CVOAMS6

Method: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\8260624W6.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 13:50:37 Calib Date: 08-Jul-2018 10:34:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS6\20180708-75068.b\F67414.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: delpolitov Date: 10-Jul-2018 13:50:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.533	1.533	0.000	88	60825	20.0	21.8	
2 Dichlorodifluoromethane	85	1.574	1.582	-0.008	99	131474	20.0	19.5	
3 Chloromethane	50	1.747	1.747	0.000	99	143975	20.0	17.5	
5 Butadiene	54	1.837	1.837	0.000	95	136886	20.0	18.3	
4 Vinyl chloride	62	1.837	1.837	0.000	97	149350	20.0	18.2	
6 Bromomethane	94	2.108	2.116	-0.008	99	100478	20.0	17.7	
7 Chloroethane	64	2.174	2.174	0.000	100	87808	20.0	18.0	
8 Dichlorofluoromethane	67	2.347	2.355	-0.008	99	199472	20.0	19.2	
10 Pentane	72	2.355	2.363	-0.008	97	34349	40.0	47.5	
9 Trichlorofluoromethane	101	2.363	2.363	0.000	54	145271	20.0	19.1	
11 Ethanol	46	2.527	2.552	-0.025	81	7178	800.0	788.8	
12 Ethyl ether	59	2.544	2.552	-0.008	93	66988	20.0	19.7	
13 2-Methyl-1,3-butadiene	53	2.568	2.568	0.000	95	79336	20.0	20.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.618	2.626	-0.008	93	80770	20.0	20.0	
15 Acrolein	56	2.725	2.733	-0.008	93	7178	40.0	32.3	
16 1,1,2-Trichloro-1,2,2-trif	101	2.749	2.749	0.000	97	99236	20.0	21.0	
17 1,1-Dichloroethene	96	2.757	2.757	0.000	98	84577	20.0	19.3	
18 Acetone	43	2.840	2.848	-0.008	88	77101	100.0	92.2	
19 Iodomethane	142	2.914	2.914	0.000	98	150704	20.0	19.1	
20 Isopropyl alcohol	45	2.938	2.930	0.008	27	28225	200.0	210.9	
21 Carbon disulfide	76	2.946	2.946	0.000	99	327997	20.0	18.7	
22 3-Chloro-1-propene	41	3.061	3.070	-0.009	98	162066	20.0	19.3	
24 Methyl acetate	43	3.070	3.078	-0.008	99	99626	40.0	39.3	
23 Cyclopentene	67	3.086	3.086	0.000	95	227488	20.0	20.4	
25 Acetonitrile	41	3.144	3.152	-0.008	96	88655	200.0	224.8	Ma
27 Methylene Chloride	84	3.193	3.193	0.000	90	102393	20.0	19.0	
* 26 TBA-d9 (IS)	65	3.193	3.201	-0.008	0	114435	1000.0	1000.0	M
28 2-Methyl-2-propanol	59	3.267	3.259	0.008	93	43067	200.0	179.0	M
29 Methyl tert-butyl ether	73	3.341	3.349	-0.008	97	241141	20.0	18.6	
30 trans-1,2-Dichloroethene	96	3.374	3.374	0.000	95	91882	20.0	19.0	
31 Acrylonitrile	53	3.448	3.448	0.000	95	290409	200.0	200.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.513	3.522	-0.009	92	81228	20.0	20.6	
33 Isopropyl ether	45	3.719	3.727	-0.008	95	285218	20.0	19.2	
34 1,1-Dichloroethane	63	3.760	3.760	0.000	99	161591	20.0	18.8	
35 Vinyl acetate	86	3.776	3.776	0.000	100	30675	40.0	36.9	
36 2-Chloro-1,3-butadiene	88	3.801	3.809	-0.008	90	81164	20.0	19.0	
37 Tert-butyl ethyl ether	59	4.031	4.039	-0.008	90	263252	20.0	18.9	
* 38 2-Butanone-d5	46	4.236	4.236	0.000	0	146699	250.0	250.0	
39 2,2-Dichloropropane	97	4.253	4.253	0.000	93	34116	20.0	18.8	
40 cis-1,2-Dichloroethene	96	4.278	4.278	0.000	98	105566	20.0	19.4	
42 Ethyl acetate	70	4.294	4.286	0.008	96	13364	40.0	34.4	
41 2-Butanone (MEK)	72	4.286	4.286	0.000	97	36492	100.0	93.9	
43 Methyl acrylate	55	4.343	4.343	0.000	96	55050	20.0	19.3	
44 Propionitrile	54	4.425	4.425	0.000	97	95637	200.0	224.6	
45 Chlorobromomethane	128	4.499	4.499	0.000	93	47249	20.0	18.8	
46 Tetrahydrofuran	72	4.508	4.508	0.000	59	16554	40.0	37.3	
47 Methacrylonitrile	67	4.516	4.524	-0.008	89	296610	200.0	188.6	
48 Chloroform	83	4.549	4.549	0.000	98	152167	20.0	19.6	
49 Cyclohexane	84	4.680	4.680	0.000	89	148710	20.0	20.5	
50 1,1,1-Trichloroethane	97	4.697	4.697	0.000	98	134275	20.0	19.4	
$ 51 Dibromofluoromethane (Surr	113	4.705	4.705	0.000	98	95062	50.0	50.4	
52 Carbon tetrachloride	117	4.812	4.812	0.000	89	111269	20.0	19.8	
53 1,1-Dichloropropene	75	4.836	4.844	-0.008	98	119649	20.0	19.5	
54 Isobutyl alcohol	43	4.984	4.992	-0.008	43	103326	500.0	533.6	
55 Benzene	78	5.034	5.033	0.001	95	372576	20.0	20.1	
$ 56 1,2-Dichloroethane-d4 (Sur	65	5.050	5.050	0.000	0	98921	50.0	49.1	
57 Isopropyl acetate	43	5.091	5.091	0.000	95	213508	20.0	19.2	
58 Tert-amyl methyl ether	73	5.091	5.091	0.000	90	281390	20.0	19.0	
59 1,2-Dichloroethane	62	5.124	5.124	0.000	95	95703	20.0	17.1	
60 n-Heptane	57	5.173	5.181	-0.008	89	72337	20.0	21.3	
* 61 Fluorobenzene	96	5.321	5.321	0.000	99	378570	50.0	50.0	
62 n-Butanol	56	5.650	5.650	0.000	51	20859	500.0	360.9	
63 Trichloroethene	95	5.674	5.674	0.000	98	89368	20.0	19.2	
65 Ethyl acrylate	55	5.789	5.789	0.000	93	201537	20.0	19.9	
64 Methylcyclohexane	83	5.789	5.798	-0.009	88	166320	20.0	20.2	
66 1,2-Dichloropropane	63	5.962	5.962	0.000	94	94343	20.0	19.5	
* 67 1,4-Dioxane-d8	96	6.020	6.019	0.001	0	10575	1000.0	1000.0	
68 Methyl methacrylate	100	6.036	6.036	0.000	87	34384	40.0	35.4	
70 n-Propyl acetate	43	6.085	6.085	0.000	98	77485	20.0	17.3	
71 Dibromomethane	93	6.094	6.093	0.001	86	50767	20.0	18.4	
69 1,4-Dioxane	88	6.069	6.093	-0.024	28	10238	400.0	507.2	
72 Dichlorobromomethane	83	6.241	6.241	0.000	99	108292	20.0	18.4	
73 2-Nitropropane	41	6.570	6.570	0.000	80	26067	40.0	31.1	
74 2-Chloroethyl vinyl ether	63	6.570	6.578	-0.008	75	35866	20.0	17.0	
75 Epichlorohydrin	57	6.677	6.685	-0.008	99	115455	400.0	393.0	
76 cis-1,3-Dichloropropene	75	6.734	6.734	0.000	90	125682	20.0	18.7	
77 4-Methyl-2-pentanone (MIBK	43	6.899	6.899	0.000	95	322864	100.0	107.6	
$ 78 Toluene-d8 (Surr)	98	6.973	6.981	-0.008	99	364545	50.0	49.8	
79 Toluene	91	7.055	7.055	0.000	92	369959	20.0	19.7	
80 trans-1,3-Dichloropropene	75	7.408	7.408	0.000	97	102914	20.0	18.3	
81 Ethyl methacrylate	69	7.425	7.433	-0.008	87	90085	20.0	19.6	
82 1,1,2-Trichloroethane	83	7.622	7.622	0.000	96	59609	20.0	19.1	
83 Tetrachloroethene	166	7.663	7.663	0.000	96	90510	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	7.827	7.827	0.000	94	111319	20.0	18.9	
85 2-Hexanone	43	7.893	7.893	0.000	95	164994	100.0	93.5	
86 n-Butyl acetate	43	8.008	8.008	0.000	97	96117	20.0	18.3	
87 Chlorodibromomethane	129	8.066	8.066	0.000	97	74204	20.0	18.3	
88 Ethylene Dibromide	107	8.222	8.222	0.000	97	66178	20.0	19.4	
* 89 Chlorobenzene-d5	117	8.764	8.764	0.000	85	265711	50.0	50.0	
90 Chlorobenzene	112	8.797	8.797	0.000	94	226396	20.0	19.2	
91 Ethylbenzene	106	8.904	8.895	0.009	98	126297	20.0	18.5	
92 1,1,1,2-Tetrachloroethane	131	8.920	8.920	0.000	96	84266	20.0	18.8	
93 m-Xylene & p-Xylene	106	9.052	9.060	-0.008	0	157137	20.0	19.4	
94 n-Butyl acrylate	73	9.487	9.495	-0.008	97	52860	20.0	17.4	
95 o-Xylene	106	9.504	9.503	0.001	94	158469	20.0	18.9	
96 Styrene	104	9.536	9.536	0.000	95	261620	20.0	20.0	
97 Amyl acetate (mixed isomer	43	9.717	9.717	0.000	92	117050	20.0	17.8	
98 Bromoform	173	9.742	9.742	0.000	96	48612	20.0	18.7	
99 Isopropylbenzene	105	9.849	9.849	0.000	95	415381	20.0	20.6	
$ 100 4-Bromofluorobenzene	174	10.029	10.029	0.000	93	109453	50.0	51.0	
101 Bromobenzene	156	10.144	10.153	-0.009	99	100081	20.0	19.0	
102 1,1,2,2-Tetrachloroethane	83	10.186	10.185	0.001	98	96487	20.0	19.5	
103 N-Propylbenzene	91	10.202	10.202	0.000	99	486588	20.0	20.2	
104 1,2,3-Trichloropropane	110	10.227	10.227	0.000	96	27016	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.243	10.243	0.000	84	19038	20.0	17.2	
106 2-Chlorotoluene	91	10.292	10.292	0.000	95	341170	20.0	20.1	
107 4-Ethyltoluene	105	10.301	10.301	0.001	99	416124	20.0	20.9	
108 1,3,5-Trimethylbenzene	105	10.350	10.350	0.000	94	363047	20.0	20.7	
109 4-Chlorotoluene	91	10.391	10.391	0.000	97	302430	20.0	20.1	
110 Butyl Methacrylate	87	10.432	10.432	0.000	89	111983	20.0	19.0	
111 tert-Butylbenzene	119	10.588	10.588	0.000	95	277493	20.0	19.6	
112 1,2,4-Trimethylbenzene	105	10.637	10.637	0.000	97	362163	20.0	20.3	
113 sec-Butylbenzene	105	10.744	10.744	0.000	99	445977	20.0	20.5	
114 4-Isopropyltoluene	119	10.851	10.843	0.008	98	382713	20.0	20.8	
115 1,3-Dichlorobenzene	146	10.859	10.859	0.000	97	205179	20.0	19.9	
* 116 1,4-Dichlorobenzene-d4	152	10.909	10.909	0.000	93	152234	50.0	50.0	
117 1,4-Dichlorobenzene	146	10.925	10.925	0.000	94	210441	20.0	19.8	
132 1,2,3-Trimethylbenzene	105	10.933	10.933	0.000	97	377810	20.0	19.9	
118 Benzyl chloride	91	11.024	11.024	0.000	99	189828	20.0	20.1	
119 2,3-Dihydroindene	117	11.073	11.065	0.008	94	384136	20.0	20.2	
120 p-Diethylbenzene	119	11.106	11.098	0.008	93	235834	20.0	20.8	
121 n-Butylbenzene	92	11.122	11.114	0.008	99	215404	20.0	20.5	
122 1,2-Dichlorobenzene	146	11.172	11.171	0.001	97	209958	20.0	20.3	
123 1,2,4,5-Tetramethylbenzene	119	11.591	11.582	0.009	97	350629	20.0	19.8	
124 1,2-Dibromo-3-Chloropropan	75	11.673	11.656	0.017	94	16087	20.0	17.6	
125 1,3,5-Trichlorobenzene	180	11.755	11.747	0.008	97	156711	20.0	19.5	
126 1,2,4-Trichlorobenzene	180	12.158	12.149	0.009	94	140618	20.0	19.6	
127 Hexachlorobutadiene	225	12.223	12.207	0.016	96	64391	20.0	19.0	
128 Naphthalene	128	12.330	12.314	0.016	99	316828	20.0	20.9	
129 1,2,3-Trichlorobenzene	180	12.494	12.478	0.016	96	134941	20.0	19.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	38.4	
S 131 Xylenes, Total	100				0		40.0	38.2	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
VOA6IS/SURR_00011	Amount Added:	5.00	Units: uL	Run Reagent

Report Date: 10-Jul-2018 13:50:39 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D

Injection Date: 10-Jul-2018 07:48:30 Instrument ID: CVOAMS6 Operator ID:

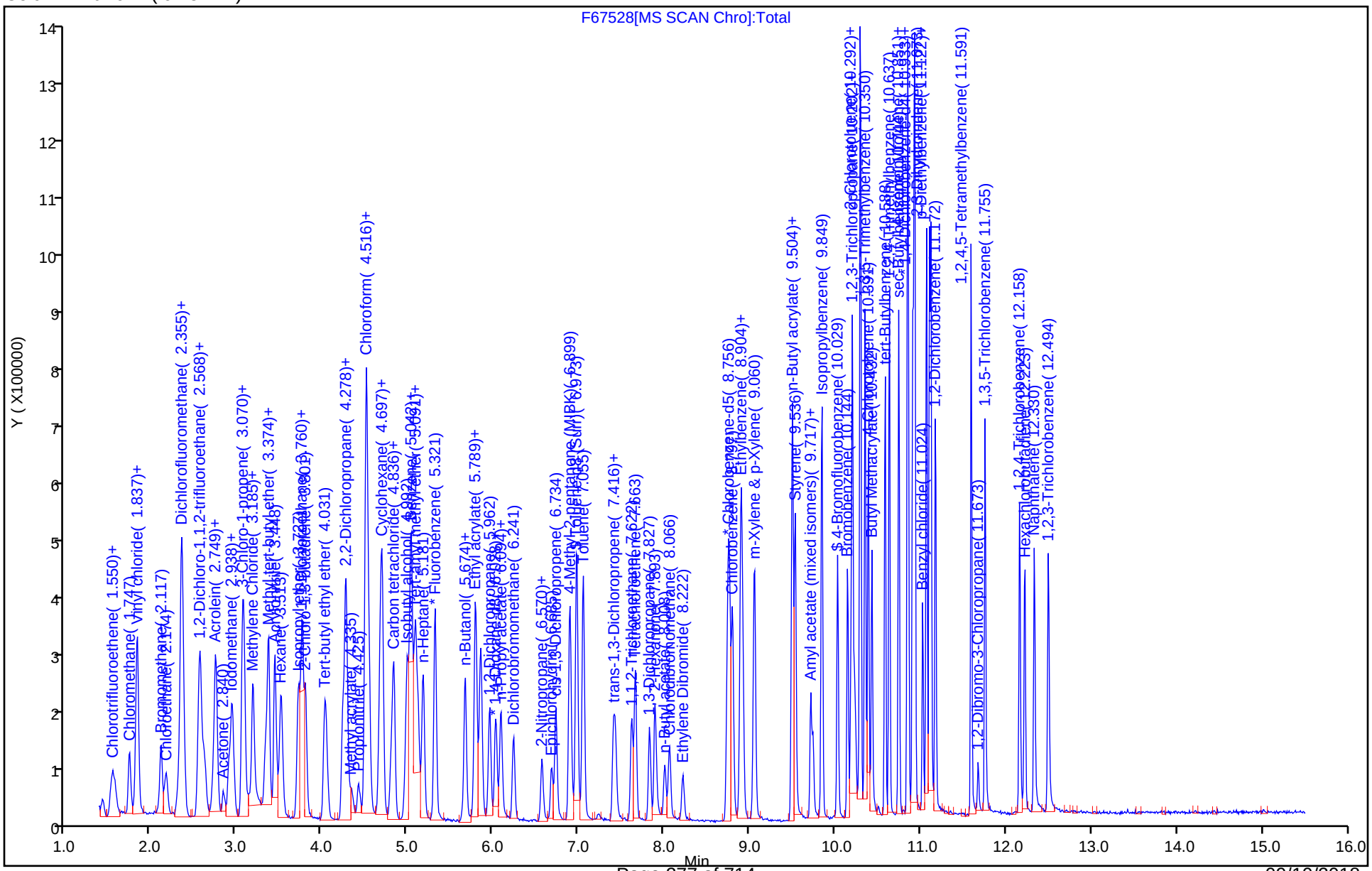
Lims ID: LCSD Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 4

Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

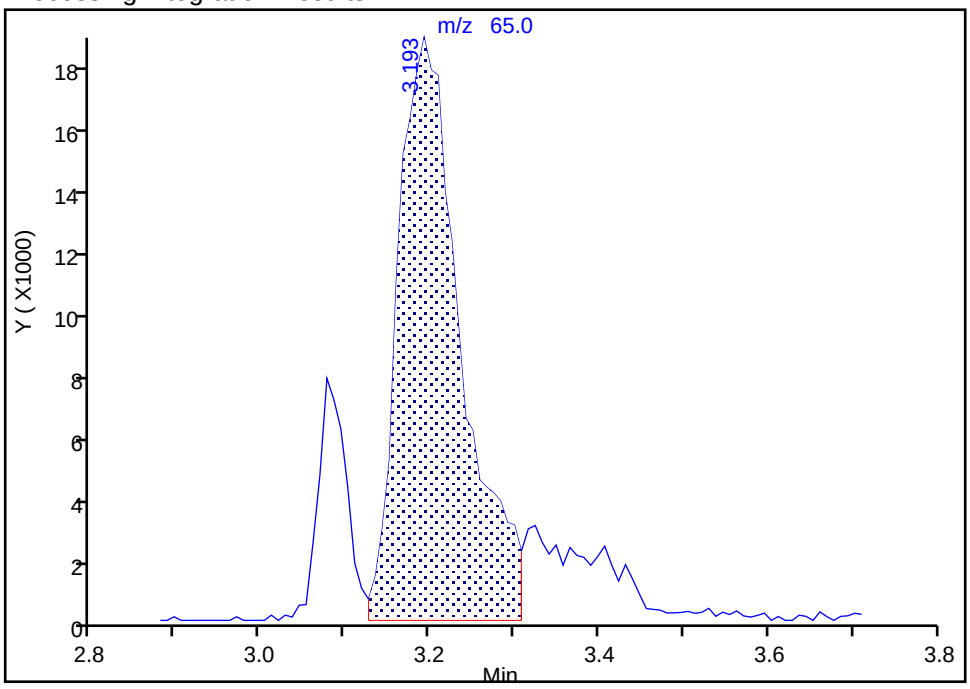
Data File: \\ChromNA\Edison\ChromData\CVOAMS6\20180710-75172.b\F67528.D
Injection Date: 10-Jul-2018 07:48:30 Instrument ID: CVOAMS6
Lims ID: LCSD
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W6 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 26 TBA-d9 (IS), CAS: 25725-11-5

Signal: 1

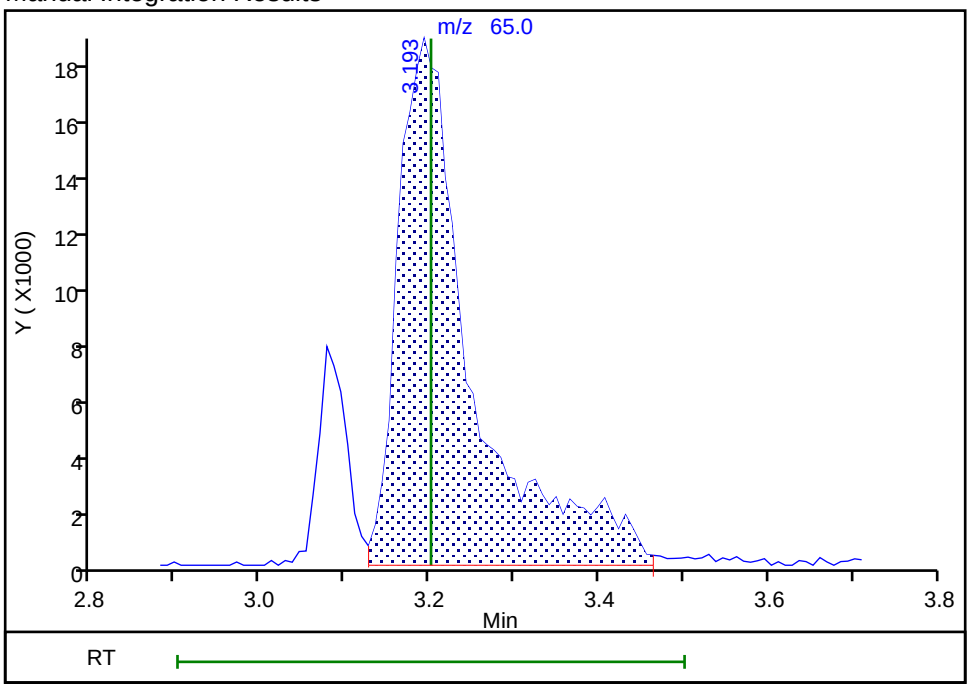
Processing Integration Results

RT: 3.19
Area: 97059
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 3.19
Area: 114435
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 10-Jul-2018 13:39:37
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/08/2018 07:26

Analysis Batch Number: 534406 End Date: 07/08/2018 16:28

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534406/1		07/08/2018 07:26	1	F67406.D	Rtx-624 0.25(mm)
STD7 460-534406/3 IC		07/08/2018 08:14	1	F67408.D	Rtx-624 0.25(mm)
STD1 460-534406/4 IC		07/08/2018 08:37	1	F67409.D	Rtx-624 0.25(mm)
STD5 460-534406/5 IC		07/08/2018 09:01	1	F67410.D	Rtx-624 0.25(mm)
STD20 460-534406/6 ICIS		07/08/2018 09:24	1	F67411.D	Rtx-624 0.25(mm)
STD50 460-534406/7 IC		07/08/2018 09:47	1	F67412.D	Rtx-624 0.25(mm)
STD200 460-534406/8 IC		07/08/2018 10:11	1	F67413.D	Rtx-624 0.25(mm)
STD500 460-534406/9 IC		07/08/2018 10:34	1	F67414.D	Rtx-624 0.25(mm)
ICV 460-534406/13		07/08/2018 12:09	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:32	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 12:56	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 13:43	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 16:28	10		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/09/2018 17:40

Analysis Batch Number: 534740 End Date: 07/10/2018 03:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534740/1		07/09/2018 17:40	1	F67492.D	Rtx-624 0.25(mm)
CCVIS 460-534740/3		07/09/2018 18:27	1	F67494.D	Rtx-624 0.25(mm)
LCS 460-534740/4		07/09/2018 18:55	1	F67495.D	Rtx-624 0.25(mm)
LCSD 460-534740/5		07/09/2018 19:19	1	F67496.D	Rtx-624 0.25(mm)
MB 460-534740/9		07/09/2018 20:53	1	F67500.D	Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 21:17	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 21:41	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:05	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:28	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 22:51	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 23:15	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 23:38	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:01	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:25	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 00:48	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:12	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:35	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 01:59	1		Rtx-624 0.25(mm)
460-159314-1		07/10/2018 02:22	1	F67514.D	Rtx-624 0.25(mm)
460-159314-2		07/10/2018 02:45	1	F67515.D	Rtx-624 0.25(mm)
460-159314-4		07/10/2018 03:09	1	F67516.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CVOAMS6 Start Date: 07/10/2018 06:12

Analysis Batch Number: 534889 End Date: 07/10/2018 15:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534889/1		07/10/2018 06:12	1	F67524.D	Rtx-624 0.25(mm)
CCVIS 460-534889/3		07/10/2018 06:57	1	F67526.D	Rtx-624 0.25(mm)
LCS 460-534889/4		07/10/2018 07:24	1	F67527.D	Rtx-624 0.25(mm)
LCSD 460-534889/5		07/10/2018 07:48	1	F67528.D	Rtx-624 0.25(mm)
MB 460-534889/8		07/10/2018 08:59	1	F67531.D	Rtx-624 0.25(mm)
460-159314-3		07/10/2018 09:23	1	F67532.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:12	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:36	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:12	25		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 14:36	10		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 15:00	25		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 534740 Batch Start Date: 07/09/18 17:40 Batch Analyst: Parekh, Vyomesh B

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00267
BFB 460-534740/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-534740/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-534740/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-534740/5		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-534740/9		8260C		5 mL	5 mL				
460-159314-B-1	PDI-TB-06262018	8260C	T	5 mL	5 mL				
460-159314-B-2	PDI-FB-06262018	8260C	T	5 mL	5 mL				
460-159314-B-4	PDI-MW-161-1-I-06262018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00011					
BFB 460-534740/1		8260C							
CCVIS 460-534740/3		8260C		5 uL					
LCS 460-534740/4		8260C		5 uL					
LCSD 460-534740/5		8260C		5 uL					
MB 460-534740/9		8260C		5 uL					
460-159314-B-1	PDI-TB-06262018	8260C	T	5 uL					
460-159314-B-2	PDI-FB-06262018	8260C	T	5 uL					
460-159314-B-4	PDI-MW-161-1-I-06262018	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 534889 Batch Start Date: 07/10/18 06:12 Batch Analyst: Moroney, Christopher J

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260MIX1COMB 00082	ACROLEIN W 00078	BFB 00017	GASES Li 00268
BFB 460-534889/1		8260C		5 mL	5 mL			1 uL	
CCVIS 460-534889/3		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCS 460-534889/4		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
LCSD 460-534889/5		8260C		5 mL	5 mL	20 uL	4 uL		20 uL
MB 460-534889/8		8260C		5 mL	5 mL				
460-159314-C-3	PDI-16-WG-75-062 62018	8260C	T	5 mL	5 mL				

Lab Sample ID	Client Sample ID	Method Chain	Basis	VOA6IS/SURR 00011					
BFB 460-534889/1		8260C							
CCVIS 460-534889/3		8260C		5 uL					
LCS 460-534889/4		8260C		5 uL					
LCSD 460-534889/5		8260C		5 uL					
MB 460-534889/8		8260C		5 uL					
460-159314-C-3	PDI-16-WG-75-062 62018	8260C	T	5 uL					

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

8270_SIM_14DX

1,4-Dioxane (GC/MS SIM)

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231276.D

Lab ID: LCS 460-533324/6-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	0.800	0.245 J	31	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: h231277.D

Lab ID: LCSD 460-533324/7-A Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,4-Dioxane	0.800	0.240 J	30	2	30	10-137	

Column to be used to flag recovery and RPD values

FORM III 8270C

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h231275.D Lab Sample ID: MB 460-533324/1-A

Matrix: Water Date Extracted: 07/03/2018 20:11

Instrument ID: CBNAMS9 Date Analyzed: 07/05/2018 10:02

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-533324/6-A	h231276.D	07/05/2018 10:23
	LCSD 460-533324/7-A	h231277.D	07/05/2018 10:45
PDI-MW-161-1-I-06262018	460-159314-4	h231281.D	07/05/2018 12:09

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h230597.D DFTPP Injection Date: 06/11/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 17:43

Analysis Batch No.: 526858

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	46.4	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	43.7	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.4	
275	10.0 - 30.0 % of mass 198	23.3	
365	Greater than 1.0 % of mass 198	2.5	
441	Present but less than mass 443	12.0	(91.1) 3
442	Greater than 40.0 % of mass 198	72.7	
443	17.0 - 23.0 % of mass 442	13.1	(18.1) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	ICIS 460-526858/2	h230598.D	06/11/2018	18:10
	STD6 460-526858/3	h230599.D	06/11/2018	18:36
	STD5 460-526858/4	h230600.D	06/11/2018	18:58
	STD4 460-526858/5	h230601.D	06/11/2018	19:19
	STD2 460-526858/6	h230602.D	06/11/2018	19:40
	STD1 460-526858/7	h230603.D	06/11/2018	20:01

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab File ID: h231250b.D DFTPP Injection Date: 07/05/2018

Instrument ID: CBNAMS9 DFTPP Injection Time: 01:12

Analysis Batch No.: 533482

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
51	30.0 - 60.0 % of mass 198	40.9	
68	Less than 2.0 % of mass 69	0.0	(0.0) 1
69	Mass 69 relative abundance	40.2	
70	Less than 2.0 % of mass 69	0.0	(0.0) 1
127	40.0 - 60.0 % of mass 198	49.6	
197	Less than 1.0 % of mass 198	0.0	
198	Base Peak, 100 % relative abundance	100.0	
199	5.0- 9.0 % of mass 198	7.5	
275	10.0 - 30.0 % of mass 198	29.0	
365	Greater than 1.0 % of mass 198	3.6	
441	Present but less than mass 443	19.0	(84.6) 3
442	Greater than 40.0 % of mass 198	120.1	
443	17.0 - 23.0 % of mass 442	22.4	(18.7) 2

1-Value is % mass 69 2-Value is % mass 442 3-Value is % mass 443

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-533482/2	h231251.D	07/05/2018	01:29
	MB 460-533324/1-A	h231275.D	07/05/2018	10:02
	LCS 460-533324/6-A	h231276.D	07/05/2018	10:23
	LCSD 460-533324/7-A	h231277.D	07/05/2018	10:45
PDI-MW-161-1-I-06262018	460-159314-4	h231281.D	07/05/2018	12:09

FORM VIII
GC/MS SEMI VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Sample No.: CCVIS 460-533482/2 Date Analyzed: 07/05/2018 01:29

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil MS ID: 0.25(mm)

Lab File ID (Standard): h231251.D Heated Purge: (Y/N) N

Calibration ID: 69388

		DCBd4		NPT			
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		6311	4.19	17047	5.40		
UPPER LIMIT		12622	4.69	34094	5.90		
LOWER LIMIT		3156	3.69	8524	4.90		
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-533324/1-A		4252	4.19	11788	5.40		
LCS 460-533324/6-A		4208	4.19	12171	5.40		
LCSD 460-533324/7-A		4368	4.19	12158	5.40		
460-159314-4	PDI-MW-161-1-I-06262018	4033	4.19	11106	5.40		

DCBd4 = 1,4-Dichlorobenzene-d4
NPT = Naphthalene-d8

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8270C

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: h231281.D

Analysis Method: 8270C | Date Collected: 06/26/2018 11:10

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 245(mL) | Date Analyzed: 07/05/2018 12:09

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.41	0.18

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D
Lims ID: 460-159314-F-4-A
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 05-Jul-2018 12:09:30 ALS Bottle#: 32 Worklist Smp#: 32
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-032
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:52:39 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:52:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	100	4033	0.2000	
* 7 Naphthalene-d8	136	5.401	5.400	0.001	99	11106	0.2000	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	94	5841	0.2000	
* 17 Phenanthrene-d10	188	8.453	8.452	0.001	98	11507	0.2000	
* 25 Chrysene-d12	240	11.026	11.026	0.000	92	10234	0.2000	
* 30 Perylene-d12	264	12.829	12.819	0.010	100	10540	0.2000	
35 DFTPP								

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

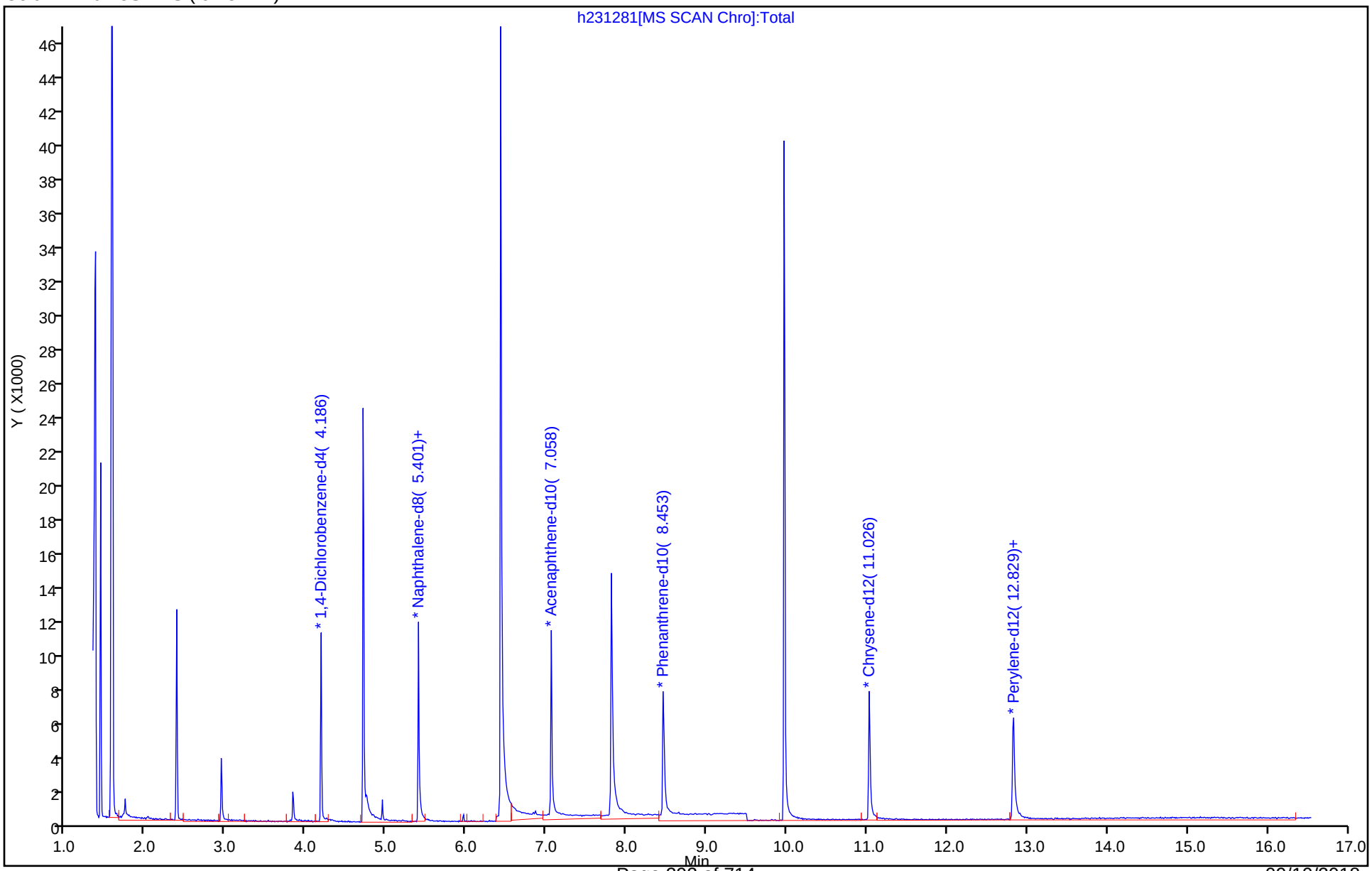
Report Date: 06-Jul-2018 13:52:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D

Injection Date:	05-Jul-2018 12:09:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	460-159314-F-4-A	Lab Sample ID:	460-159314-4	Worklist Smp#:	32
Client ID:	PDI-MW-161-1-I-06262018				
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	32
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



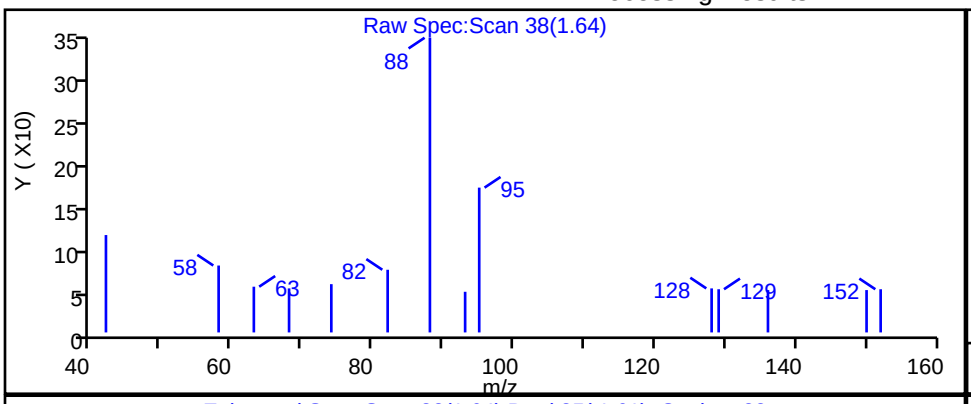
User Disabled Compound Report

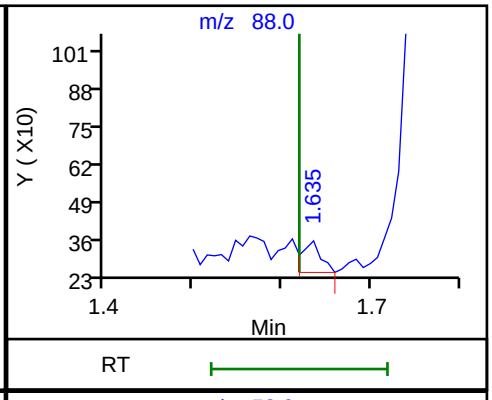
TestAmerica Edison

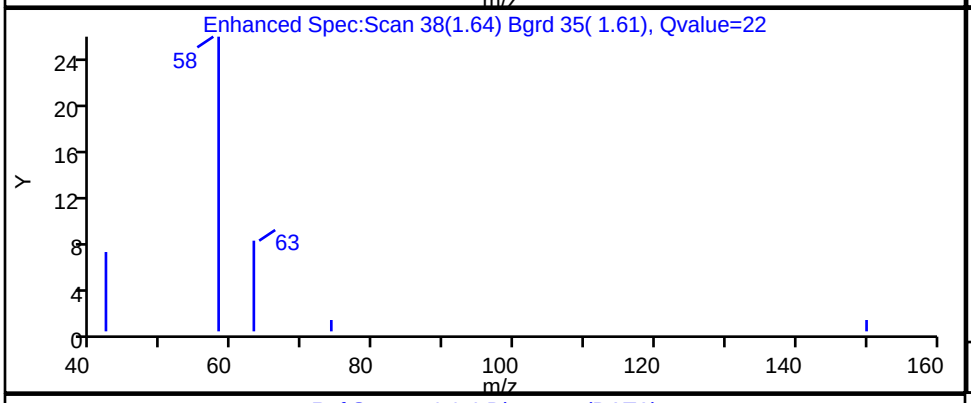
Data File:	\\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231281.D				
Injection Date:	05-Jul-2018 12:09:30	Instrument ID:	CBNAMS9		
Lims ID:	460-159314-F-4-A	Lab Sample ID:	460-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:		ALS Bottle#:	32	Worklist Smp#:	32
Injection Vol:	5.0 ul	Dil. Factor:	1.0000		
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		
Column:	Rtxi-5Sil MS (0.25 mm)	Detector	MS SCAN		

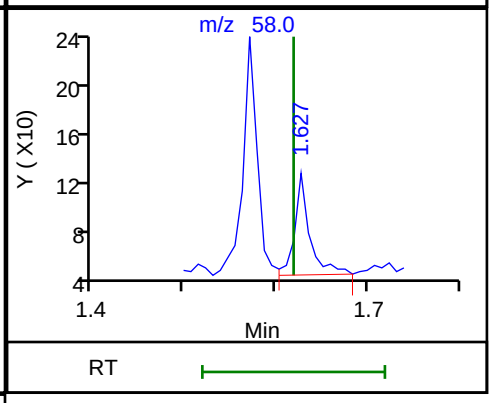
1 1,4-Dioxane, CAS: 123-91-1

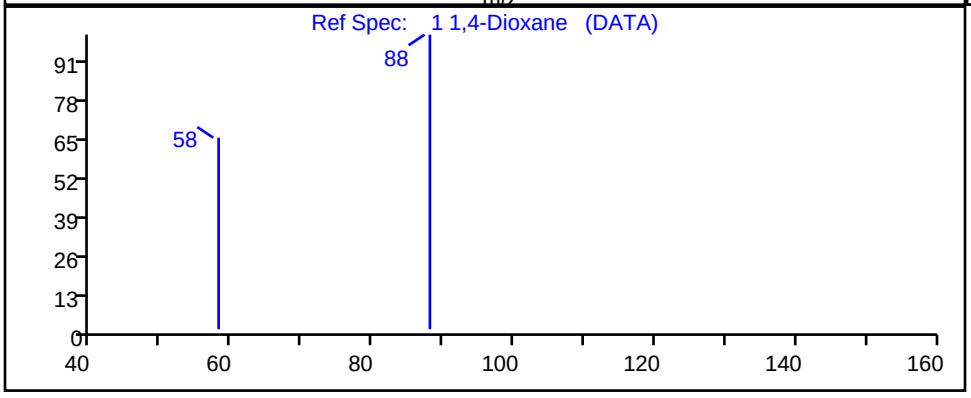
Processing Results











RT	Mass	Response	Amount
1.64	88.00	162	-0.003729
1.63	58.00	93	

Reviewer: manlangitf, 05-Jul-2018 12:31:20

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 526858

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2018 18:10 Calibration End Date: 06/11/2018 20:01 Calibration ID: 69388

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-526858/2	h230598.D
Level 2	STD6 460-526858/3	h230599.D
Level 3	STD5 460-526858/4	h230600.D
Level 4	STD4 460-526858/5	h230601.D
Level 5	STD2 460-526858/6	h230602.D
Level 6	STD1 460-526858/7	h230603.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.4824 0.6668	0.4352	0.4401	0.4343	0.5145	Lin2	0.0096	0.4246							0.9990		0.9900
Nitrobenzene-d5	0.3693 0.3607	0.3413	0.3514	0.3496	0.3466	Ave		0.3531				2.9		15.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS SEMI VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159314-1 Analy Batch No.: 526858

SDG No.:

Instrument ID: CBNAMS9 GC Column: Rtxi-5Sil M ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/11/2018 18:10 Calibration End Date: 06/11/2018 20:01 Calibration ID: 69388

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	ICIS 460-526858/2	h230598.D
Level 2	STD6 460-526858/3	h230599.D
Level 3	STD5 460-526858/4	h230600.D
Level 4	STD4 460-526858/5	h230601.D
Level 5	STD2 460-526858/6	h230602.D
Level 6	STD1 460-526858/7	h230603.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane	DCBd 4	Lin2	4184 976	32974	14903	6849	2073	0.200 0.0400	2.00	0.800	0.400	0.100
Nitrobenzene-d5	NPT	Ave	17741 3702	365897	42172	31105	7609	0.400 0.100	10.0	1.00	0.800	0.200

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230598.D
Lims ID: icis
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 11-Jun-2018 18:10:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:39 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: eisam Date: 11-Jun-2018 19:09:49

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	94	4184	0.2000	0.2046	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	92	2436	0.1000	0.1022	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	96	899	0.0200	0.0192	
* 5 1,4-Dichlorobenzene-d4	152	4.440	4.440	0.000	98	8673	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	98	17741	0.4000	0.4183	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	24019	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	2897	0.0200	0.0190	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	47870	0.4000	0.3940	
10 Acenaphthylene	152	7.173	7.173	0.000	100	2834	0.0200	0.0181	
* 11 Acenaphthene-d10	164	7.305	7.305	0.000	97	11349	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	90	1552	0.0200	0.0200	
13 Fluorene	166	7.818	7.818	0.000	86	1686	0.0200	0.0186	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	1652	0.2000	0.2251	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	87	9101	0.4000	0.3882	
15 Hexachlorobenzene	284	8.357	8.357	0.000	99	929	0.0200	0.0188	
16 Pentachlorophenol	266	8.541	8.541	0.000	96	2533	0.1000	0.1017	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17592	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	3039	0.0200	0.0206	
19 Anthracene	178	8.778	8.778	0.000	99	2500	0.0200	0.0182	
21 Fluoranthene	202	9.844	9.844	0.000	98	2663	0.0200	0.0187	
22 Pyrene	202	10.059	10.059	0.000	100	2865	0.0200	0.0199	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	99	20580	0.4000	0.4158	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	70	2006	0.0200	0.0192	
* 25 Chrysene-d12	240	11.326	11.326	0.000	98	12160	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	97	2246	0.0200	0.0188	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	98	1984	0.0200	0.0189	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	90	2125	0.0200	0.0180	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	97	1613	0.0200	0.0179	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	10928	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	90	1532	0.0200	0.0184	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	1643	0.0200	0.0207	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	84	2069	0.0200	0.0205	

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

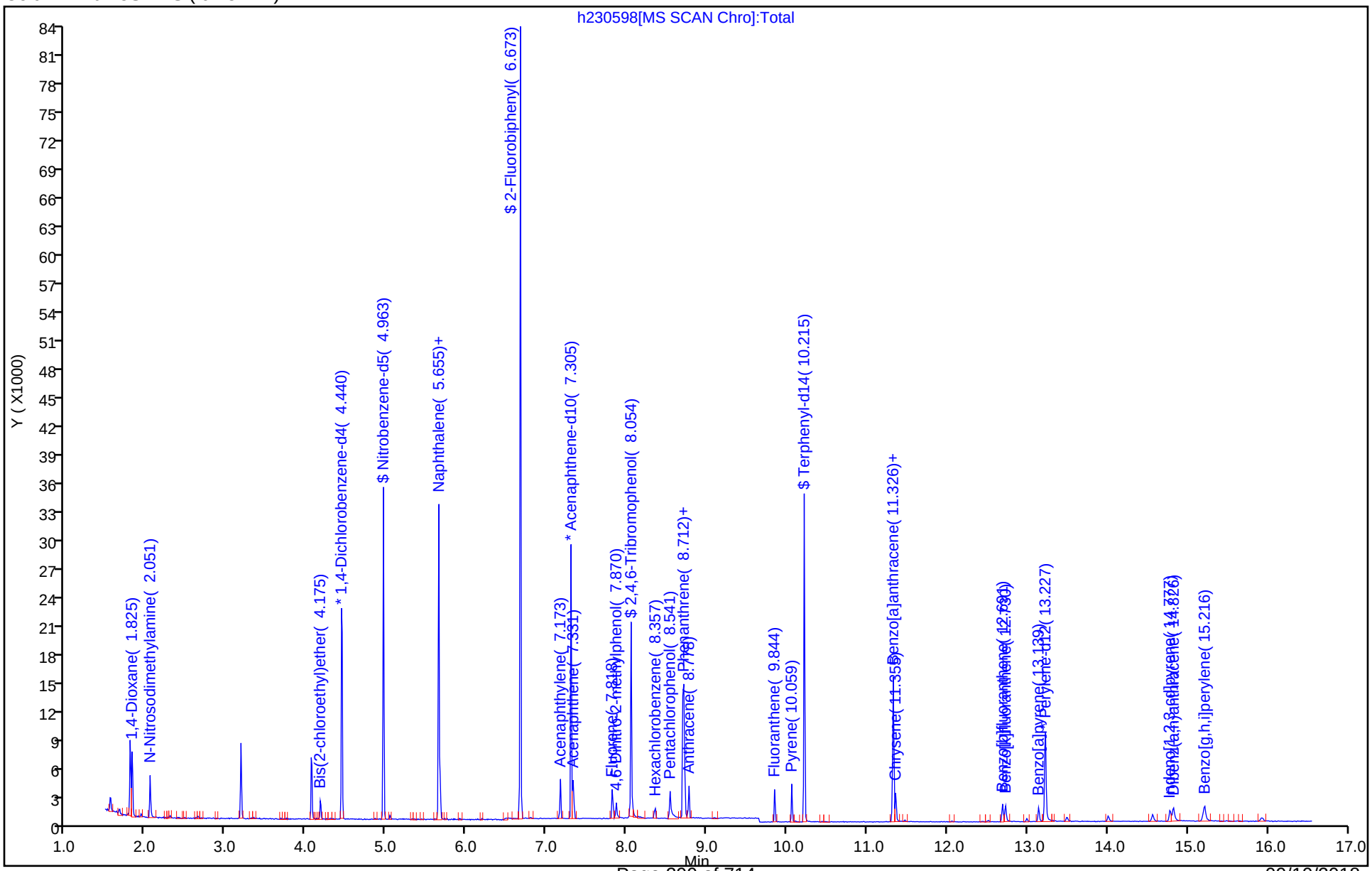
Report Date: 12-Jun-2018 09:44:39 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230598.D

Injection Date:	11-Jun-2018 18:10:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	icis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230599.D
Lims ID: std6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jun-2018 18:36:30 ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-003
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:40 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:24:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	99	32974	2.00	2.03	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	88	18505	1.00	0.8887	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	88	40815	1.00	1.00	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	99	7577	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	97	365897	10.0	9.66	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	21444	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	56294	0.4000	0.4126	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	96	898404	10.0	8.16	
10 Acenaphthylene	152	7.173	7.173	0.000	100	57713	0.4000	0.4065	
* 11 Acenaphthene-d10	164	7.304	7.305	0.000	98	10286	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	89	29802	0.4000	0.4235	
13 Fluorene	166	7.817	7.818	-0.001	86	35101	0.4000	0.4275	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	28514	2.00	2.00	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	93	228008	10.0	10.7	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	47155	1.00	0.9637	
16 Pentachlorophenol	266	8.541	8.541	0.000	97	31578	1.00	1.00	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17386	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	60786	0.4000	0.4179	
19 Anthracene	178	8.778	8.778	0.000	99	59925	0.4000	0.4407	
21 Fluoranthene	202	9.844	9.844	0.000	100	59761	0.4000	0.4247	
22 Pyrene	202	10.059	10.059	0.000	100	63219	0.4000	0.3962	
$ 23 Terphenyl-d14	244	10.225	10.215	0.010	94	541170	10.0	9.86	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	3	49153	0.4000	0.4239	
* 25 Chrysene-d12	240	11.326	11.326	0.000	41	13484	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	98	57593	0.4000	0.4346	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	53859	0.4000	0.4357	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	99	62522	0.4000	0.4487	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	49083	0.4000	0.4625	
* 30 Perylene-d12	264	13.227	13.227	0.000	99	12897	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	90	47036	0.4000	0.4779	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	45500	0.4000	0.4864	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	53218	0.4000	0.4465	

Reagents:

SM_simSlviL6_00009 Amount Added: 1.00 Units: mL

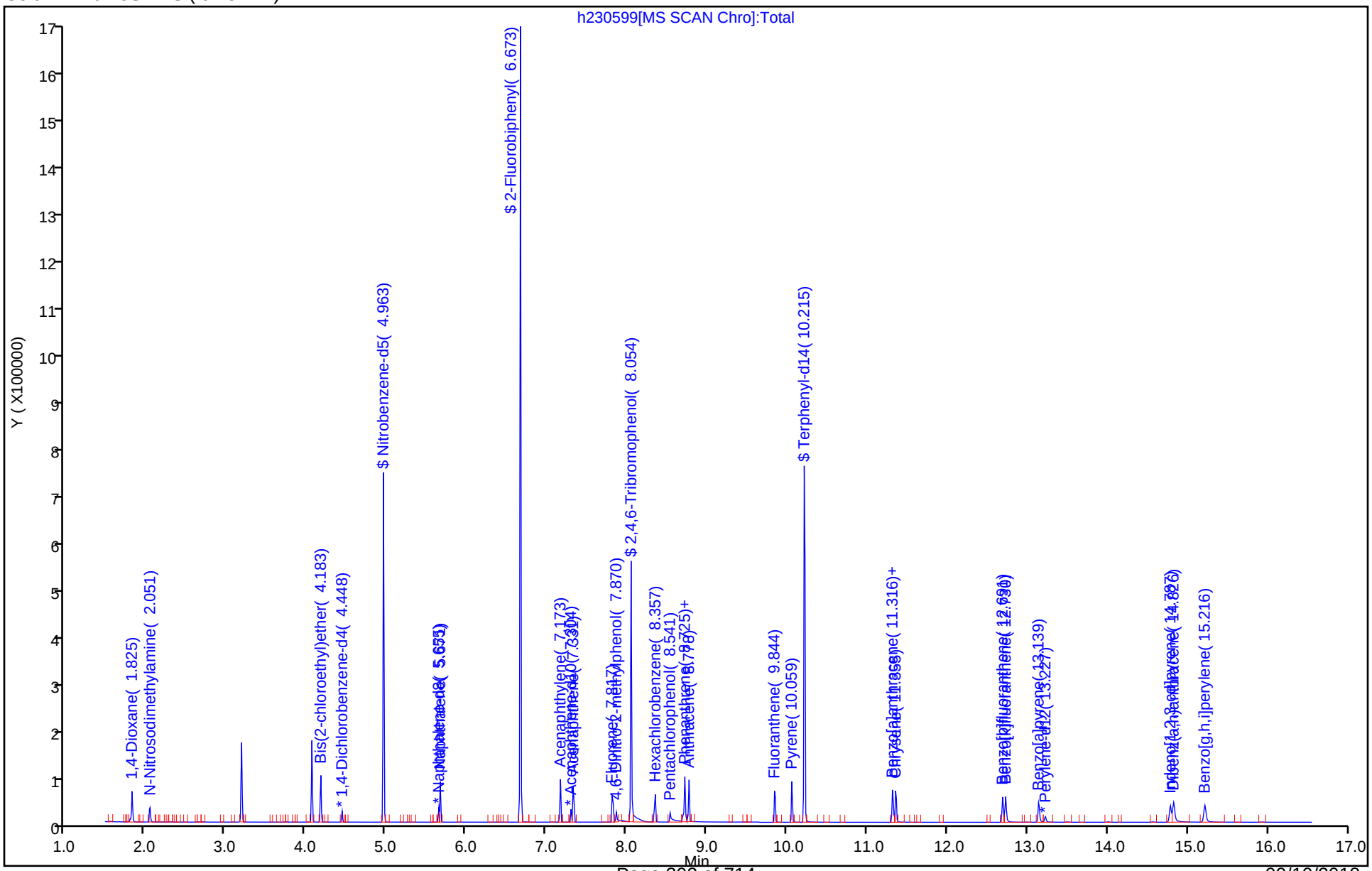
Report Date: 12-Jun-2018 09:44:41 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230599.D

Injection Date:	11-Jun-2018 18:36:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std6			Worklist Smp#:	3
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230600.D
Lims ID: std5
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jun-2018 18:58:30 ALS Bottle#: 4 Worklist Smp#: 4
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-004
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:42 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:26:32

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.825	1.825	0.000	99	14903	0.8000	0.8065	
2 N-Nitrosodimethylamine	74	2.043	2.051	-0.008	90	9387	0.4000	0.4035	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	97	18034	0.4000	0.3936	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	97	8466	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	98	42172	1.00	0.99	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	24004	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	28290	0.2000	0.1852	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	117396	1.00	1.04	
10 Acenaphthylene	152	7.173	7.173	0.000	100	28288	0.2000	0.1947	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	100	10524	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	88	13598	0.2000	0.1889	
13 Fluorene	166	7.818	7.818	0.000	90	16928	0.2000	0.2015	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	83	7660	0.8000	0.7554	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	92	23891	1.00	1.10	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	21219	0.4000	0.4033	
16 Pentachlorophenol	266	8.541	8.541	0.000	96	12255	0.4000	0.3978	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	18694	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	29070	0.2000	0.1859	
19 Anthracene	178	8.778	8.778	0.000	99	27877	0.2000	0.1907	
21 Fluoranthene	202	9.844	9.844	0.000	100	28640	0.2000	0.1893	
22 Pyrene	202	10.059	10.059	0.000	100	30369	0.2000	0.1881	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	97	54341	1.00	0.9787	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	6	21994	0.2000	0.1875	
* 25 Chrysene-d12	240	11.326	11.326	0.000	85	13643	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	25643	0.2000	0.1913	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	25224	0.2000	0.1930	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	98	28897	0.2000	0.1961	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	21688	0.2000	0.1933	
* 30 Perylene-d12	264	13.227	13.227	0.000	99	13636	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	92	20160	0.2000	0.1937	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	99	20542	0.2000	0.2077	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	23709	0.2000	0.1881	

Reagents:

SM_simSlviL5_00009 Amount Added: 1.00 Units: mL

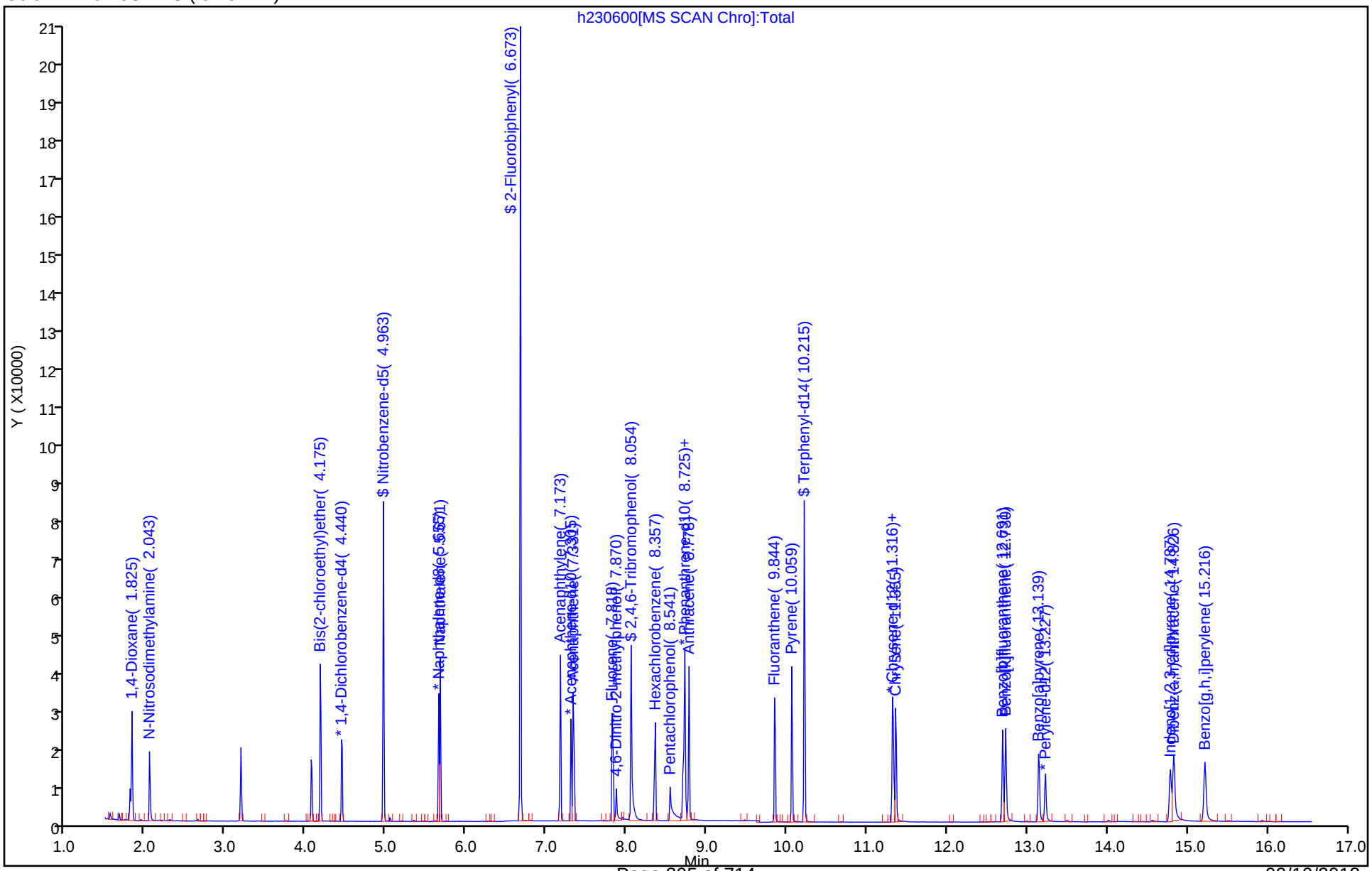
Report Date: 12-Jun-2018 09:44:42 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230600.D

Injection Date:	11-Jun-2018 18:58:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std5			Worklist Smp#:	4
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230601.D
Lims ID: std4
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 11-Jun-2018 19:19:30 ALS Bottle#: 5 Worklist Smp#: 5
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-005
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:43 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:27:12

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	93	6849	0.4000	0.3865	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	87	4190	0.2000	0.1934	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	85	8550	0.2000	0.2004	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	99	7885	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	96	31105	0.8000	0.7920	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	22243	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	100	13309	0.1000	0.0940	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	95	88525	0.8000	0.8093	
10 Acenaphthylene	152	7.173	7.173	0.000	99	13529	0.1000	0.0959	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	97	10219	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	88	6791	0.1000	0.0971	
13 Fluorene	166	7.818	7.818	0.000	85	7985	0.1000	0.0979	
14 4,6-Dinitro-2-methylphenol	198	7.870	7.870	0.000	86	4015	0.4000	0.4854	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	95	17493	0.8000	0.8287	
15 Hexachlorobenzene	284	8.357	8.357	0.000	100	9225	0.2000	0.1907	
16 Pentachlorophenol	266	8.554	8.541	0.013	91	5266	0.2000	0.1980	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	17192	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	97	13364	0.1000	0.0929	
19 Anthracene	178	8.778	8.778	0.000	99	12920	0.1000	0.0961	
21 Fluoranthene	202	9.844	9.844	0.000	99	13381	0.1000	0.0962	
22 Pyrene	202	10.059	10.059	0.000	100	13937	0.1000	0.0893	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	98	41965	0.8000	0.7814	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	13	10339	0.1000	0.0911	
* 25 Chrysene-d12	240	11.326	11.326	0.000	95	13196	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	11954	0.1000	0.0922	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	100	11302	0.1000	0.0901	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	99	12928	0.1000	0.0915	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	100	10082	0.1000	0.0937	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	13081	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	89	9251	0.1000	0.0927	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	98	9614	0.1000	0.1013	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	10970	0.1000	0.0907	

Reagents:

SM_simSlviL4_00008 Amount Added: 1.00 Units: mL

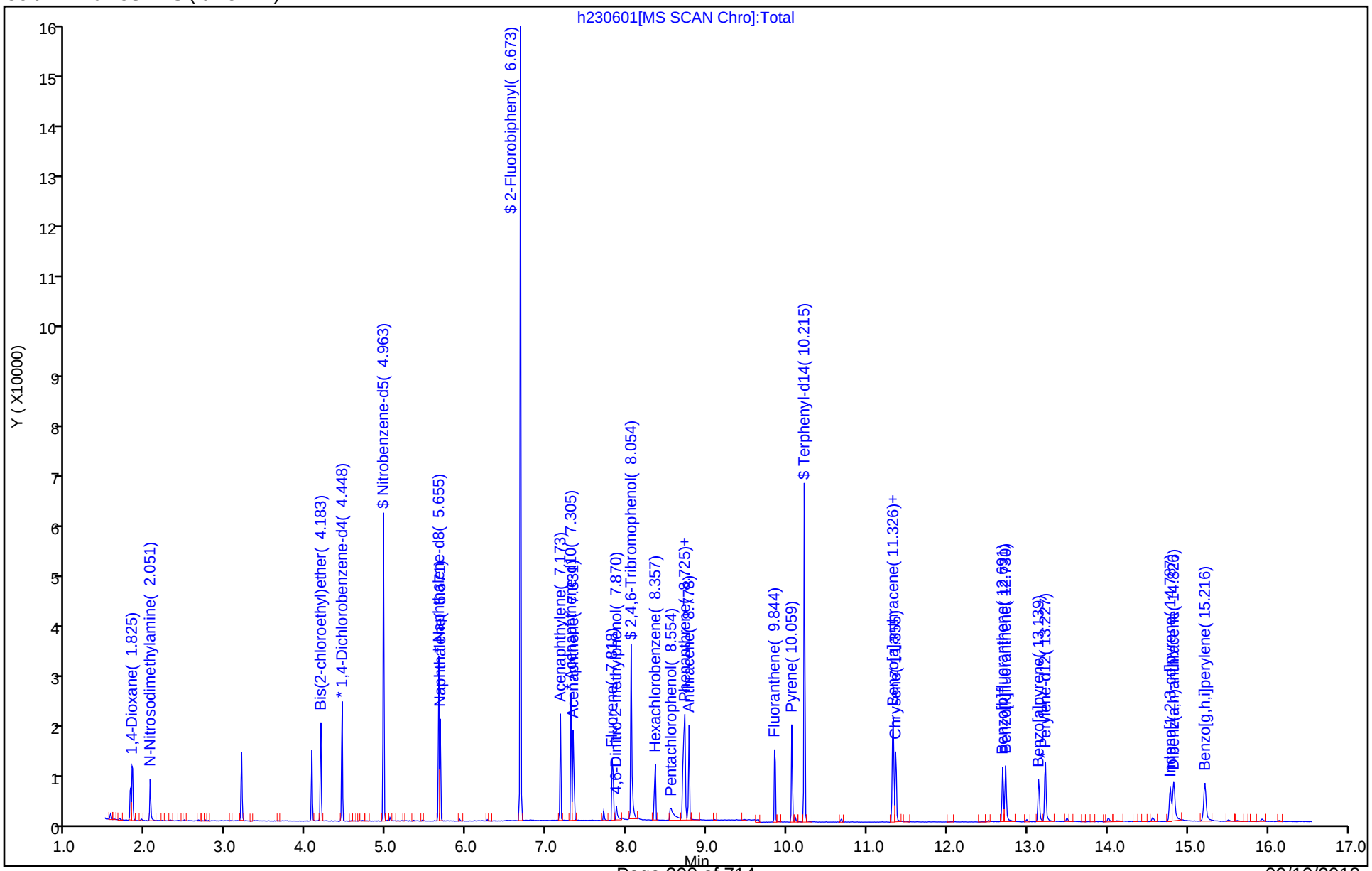
Report Date: 12-Jun-2018 09:44:43 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230601.D

Injection Date:	11-Jun-2018 19:19:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std4			Worklist Smp#:	5
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230602.D
Lims ID: std2
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jun-2018 19:40:30 ALS Bottle#: 6 Worklist Smp#: 6
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-006
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:44 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:27:35

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	90	2073	0.1000	0.0985	
2 N-Nitrosodimethylamine	74	2.051	2.051	0.000	91	1110	0.0500	0.0501	
3 Bis(2-chloroethyl)ether	93	4.175	4.175	0.000	92	221	0.005000	0.005068	
* 5 1,4-Dichlorobenzene-d4	152	4.440	4.440	0.000	98	8058	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	97	7609	0.2000	0.1963	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	98	21954	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	94	1461	0.0100	0.0105	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	94	22099	0.2000	0.2051	
10 Acenaphthylene	152	7.173	7.173	0.000	99	1403	0.0100	0.0101	
* 11 Acenaphthene-d10	164	7.305	7.305	0.001	99	10067	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	86	694	0.0100	0.0101	
13 Fluorene	166	7.818	7.818	0.000	91	826	0.0100	0.0103	
14 4,6-Dinitro-2-methylphenol	198	7.897	7.870	0.027	79	287	0.1000	0.0511	
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	92	3747	0.2000	0.1802	
15 Hexachlorobenzene	284	8.357	8.357	0.000	94	245	0.005000	0.005223	
16 Pentachlorophenol	266	8.594	8.541	0.053	93	973	0.0500	0.0499	
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	100	16667	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	96	1498	0.0100	0.0107	
19 Anthracene	178	8.778	8.778	0.000	98	1283	0.0100	0.009842	
21 Fluoranthene	202	9.844	9.844	0.000	99	1398	0.0100	0.0104	
22 Pyrene	202	10.059	10.059	0.000	99	1506	0.0100	0.0108	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	99	9558	0.2000	0.1992	
24 Benzo[a]anthracene	228	11.317	11.316	0.001	75	1080	0.0100	0.0107	
* 25 Chrysene-d12	240	11.326	11.326	0.000	97	11787	0.2000	0.2000	
26 Chrysene	228	11.356	11.355	0.001	98	1189	0.0100	0.0103	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	99	1141	0.0100	0.0105	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	95	1401	0.0100	0.0114	
29 Benzo[a]pyrene	252	13.140	13.139	0.001	98	992	0.0100	0.0106	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	11383	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	86	931	0.0100	0.0107	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	99	659	0.0100	0.007982	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	85	1000	0.0100	0.009506	

Reagents:

SM_simSlviL2_00009 Amount Added: 1.00 Units: mL

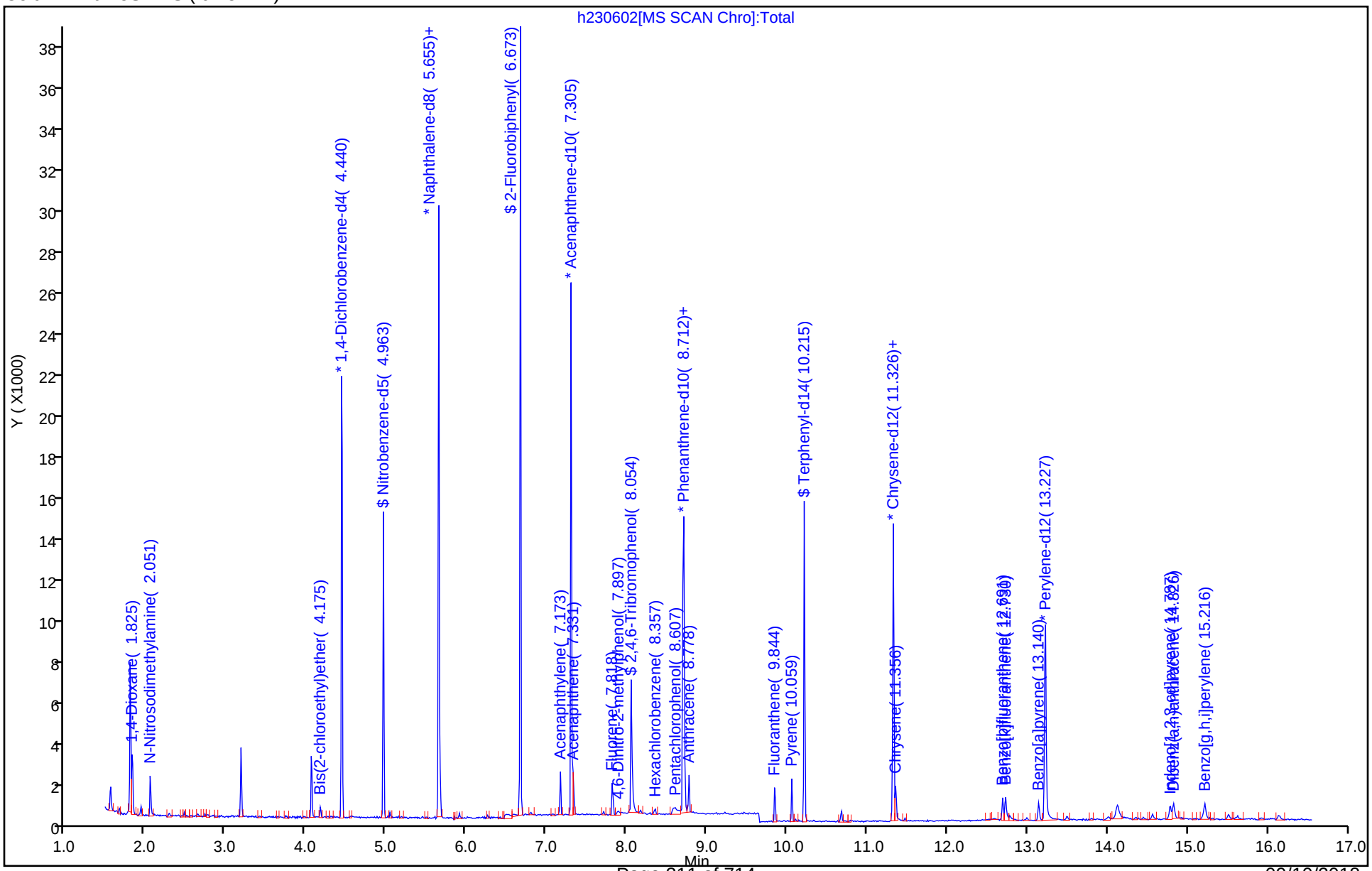
Report Date: 12-Jun-2018 09:44:45 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230602.D

Injection Date:	11-Jun-2018 19:40:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std2			Worklist Smp#:	6
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D
Lims ID: std1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jun-2018 20:01:30 ALS Bottle#: 7 Worklist Smp#: 7
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-007
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:46 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: johnstonm1 Date: 12-Jun-2018 08:28:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.833	1.825	0.008	100	976	0.0400	0.0402	
2 N-Nitrosodimethylamine	74	2.067	2.051	0.016	91	447	0.0200	0.0222	
3 Bis(2-chloroethyl)ether	93	4.183	4.175	0.008	93	83	0.002000	0.002095	
* 5 1,4-Dichlorobenzene-d4	152	4.448	4.440	0.008	100	7319	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.963	4.963	0.000	95	3702	0.1000	0.1021	
* 7 Naphthalene-d8	136	5.655	5.655	0.000	99	20526	0.2000	0.2000	
8 Naphthalene	128	5.671	5.671	0.000	99	724	0.005000	0.005543	
$ 9 2-Fluorobiphenyl	172	6.673	6.673	0.000	94	10805	0.1000	0.1120	
10 Acenaphthylene	152	7.173	7.173	0.000	99	707	0.005000	0.005683	
* 11 Acenaphthene-d10	164	7.304	7.305	0.000	100	9013	0.2000	0.2000	
12 Acenaphthene	154	7.331	7.331	0.000	77	314	0.005000	0.005092	
13 Fluorene	166	7.817	7.818	-0.001	85	355	0.005000	0.004934	
14 4,6-Dinitro-2-methylphenol	198	7.857	7.870	-0.013	31	17	0.0400	0.0102	Ma
$ 20 2,4,6-Tribromophenol	330	8.054	8.054	0.000	93	1714	0.1000	0.0921	
15 Hexachlorobenzene	284	8.357	8.357	0.000	85	93	0.002000	0.002184	a
16 Pentachlorophenol	266	8.633	8.541	0.092	85	143	0.0200	0.0200	Ma
* 17 Phenanthrene-d10	188	8.712	8.712	0.000	99	15133	0.2000	0.2000	
18 Phenanthrene	178	8.725	8.725	0.000	95	627	0.005000	0.004952	
19 Anthracene	178	8.778	8.778	0.000	98	646	0.005000	0.005458	
21 Fluoranthene	202	9.844	9.844	0.000	98	648	0.005000	0.005291	
22 Pyrene	202	10.059	10.059	0.000	100	676	0.005000	0.005506	
$ 23 Terphenyl-d14	244	10.215	10.215	0.000	97	4319	0.1000	0.1023	
24 Benzo[a]anthracene	228	11.316	11.316	0.000	89	476	0.005000	0.005335	
* 25 Chrysene-d12	240	11.326	11.326	0.000	97	10376	0.2000	0.2000	
26 Chrysene	228	11.355	11.355	0.000	99	545	0.005000	0.005345	
27 Benzo[b]fluoranthene	252	12.691	12.691	0.000	99	511	0.005000	0.005256	
28 Benzo[k]fluoranthene	252	12.730	12.730	0.000	94	517	0.005000	0.004718	
29 Benzo[a]pyrene	252	13.139	13.139	0.000	99	411	0.005000	0.004924	
* 30 Perylene-d12	264	13.227	13.227	0.000	100	10143	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.787	14.787	0.000	88	356	0.005000	0.004599	
32 Dibenz(a,h)anthracene	278	14.826	14.826	0.000	93	330	0.005000	0.004486	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	15.216	15.216	0.000	83	497	0.005000	0.005302	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL1_00009 Amount Added: 1.00 Units: mL

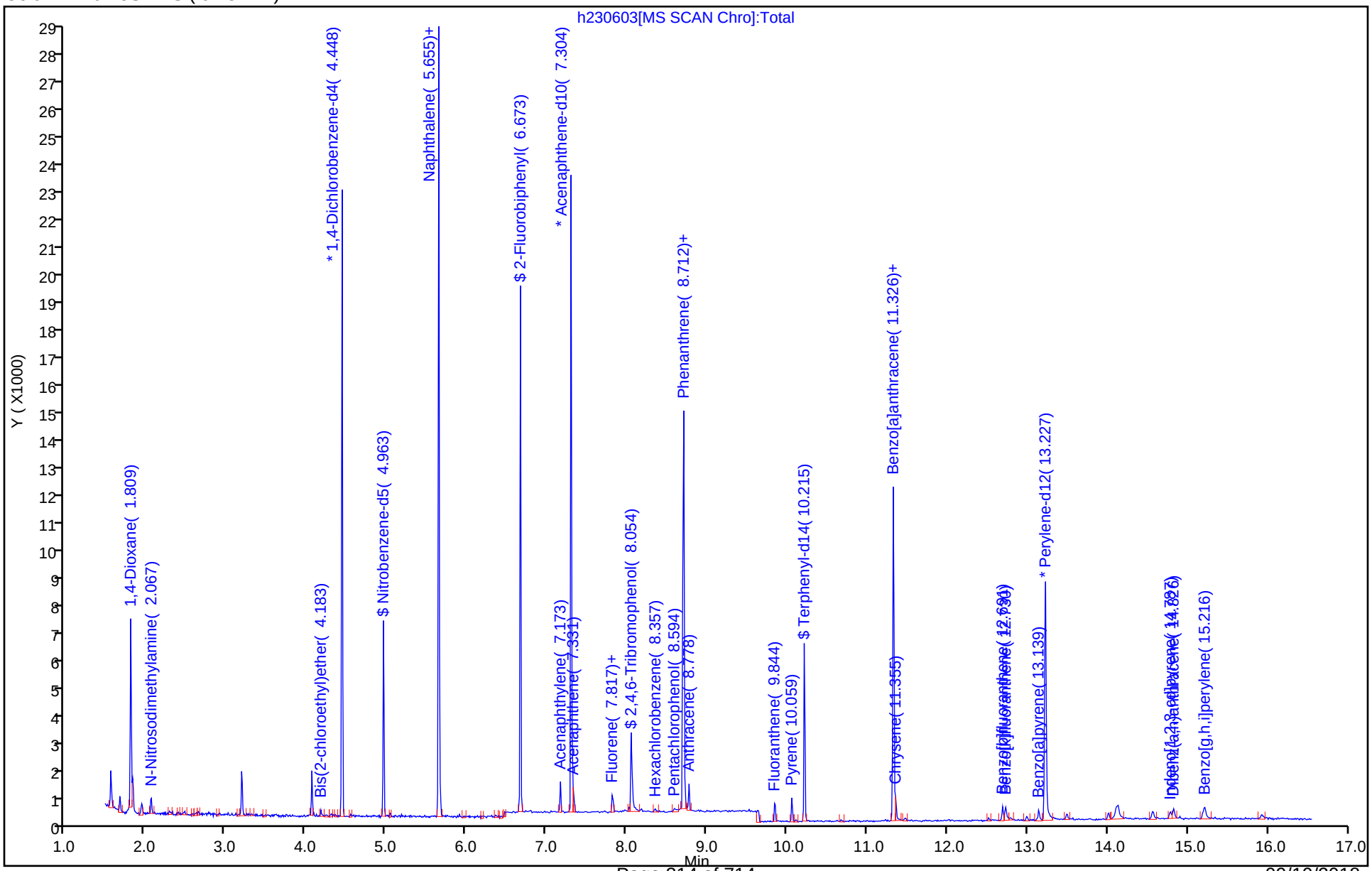
Report Date: 12-Jun-2018 09:44:46 Chrom Revision: 2.2 11-May-2018 08:54:46

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Injection Date:	11-Jun-2018 20:01:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	std1			Worklist Smp#:	7
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVIS 460-533482/2 Calibration Date: 07/05/2018 01:29

Instrument ID: CBNAMS9 Calib Start Date: 06/11/2018 18:10

GC Column: Rtxi-5Sil MS ID: 0.25(mm) Calib End Date: 06/11/2018 20:01

Lab File ID: h231251.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Lin2		0.4811		204	200	2.0	20.0
N-Nitrosodimethylamine	Ave	0.5496	0.4655		84.7	100	-15.3	20.0
Bis(2-chloroethyl)ether	Ave	1.082	0.8240		15.2	20.0	-23.9*	20.0
Naphthalene	Ave	1.273	1.110		17.4	20.0	-12.8	20.0
Acenaphthylene	Ave	2.761	2.241		16.2	20.0	-18.8	20.0
Acenaphthene	Ave	1.368	1.394		20.4	20.0	1.9	20.0
Fluorene	Ave	1.597	1.707		21.4	20.0	6.9	20.0
4,6-Dinitro-2-methylphenol	Qua		0.0150		45.5	200	-77.3*	20.0
Hexachlorobenzene	Ave	0.5629	0.4554		16.2	20.0	-19.1	20.0
Pentachlorophenol	Qua2		0.0443		27.8	100	-72.2*	20.0
Phenanthrene	Ave	1.673	1.199		14.3	20.0	-28.4*	20.0
Anthracene	Ave	1.564	1.197		15.3	20.0	-23.5*	20.0
Fluoranthene	Ave	1.619	1.449		17.9	20.0	-10.5	20.0
Pyrene	Ave	2.367	1.777		15.0	20.0	-24.9*	20.0
Benzo[a]anthracene	Ave	1.720	1.436		16.7	20.0	-16.5	20.0
Chrysene	Ave	1.965	1.767		18.0	20.0	-10.1	20.0
Benzo[b]fluoranthene	Ave	1.917	1.252		13.1	20.0	-34.7*	20.0
Benzo[k]fluoranthene	Ave	2.161	1.669		15.4	20.0	-22.8*	20.0
Benzo[a]pyrene	Ave	1.646	1.389		16.9	20.0	-15.6	20.0
Indeno[1,2,3-cd]pyrene	Ave	1.526	1.591		20.9	20.0	4.3	20.0
Dibenz(a,h)anthracene	Ave	1.451	1.142		15.7	20.0	-21.3*	20.0
Benzo[g,h,i]perylene	Ave	1.848	1.406		15.2	20.0	-23.9*	20.0
Nitrobenzene-d5	Ave	0.3531	0.3369		382	400	-4.6	20.0
2-Fluorobiphenyl	Ave	2.141	1.910		357	400	-10.8	20.0
2,4,6-Tribromophenol	Ave	0.4131	0.3911		379	400	-5.3	20.0
Terphenyl-d14	Ave	0.8140	0.8311		408	400	2.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D
Lims ID: ccvis
Client ID:
Sample Type: CCVIS
Inject. Date: 05-Jul-2018 01:29:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-002
Operator ID: Instrument ID: CBNAMS9
Sublist: chrom-BNsurrSIM_LVI_9*sub4

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:32:31 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:32:31

	Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
	1 1,4-Dioxane	88	1.619	1.619	0.000	99	3036	0.2000	0.2039	
	2 N-Nitrosodimethylamine	74	1.844	1.844	0.000	99	1469	0.1000	0.0847	
	3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	84	520	0.0200	0.0152	
*	5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	98	6311	0.2000	0.2000	
$	6 Nitrobenzene-d5	82	4.709	4.709	0.000	92	11485	0.4000	0.3816	
*	7 Naphthalene-d8	136	5.400	5.400	0.000	99	17047	0.2000	0.2000	
	8 Naphthalene	128	5.417	5.417	0.000	100	1892	0.0200	0.0174	
$	9 2-Fluorobiphenyl	172	6.427	6.427	0.000	96	32628	0.4000	0.3569	
	10 Acenaphthylene	152	6.926	6.926	0.000	100	1914	0.0200	0.0162	
*	11 Acenaphthene-d10	164	7.058	7.058	0.000	96	8541	0.2000	0.2000	
	12 Acenaphthene	154	7.084	7.084	0.000	93	1191	0.0200	0.0204	
	13 Fluorene	166	7.584	7.584	0.000	94	1458	0.0200	0.0214	
	14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	66	248	0.2000	0.0455	
$	20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	92	6680	0.4000	0.3786	
	15 Hexachlorobenzene	284	8.097	8.097	0.000	97	755	0.0200	0.0162	
	16 Pentachlorophenol	266	8.295	8.295	0.000	85	367	0.1000	0.0278	Ma
*	17 Phenanthrene-d10	188	8.452	8.452	0.000	98	16579	0.2000	0.2000	
	18 Phenanthrene	178	8.479	8.479	0.000	86	1987	0.0200	0.0143	
	19 Anthracene	178	8.531	8.531	0.000	99	1985	0.0200	0.0153	
	21 Fluoranthene	202	9.592	9.592	0.000	96	2403	0.0200	0.0179	
	22 Pyrene	202	9.807	9.807	0.000	96	2601	0.0200	0.0150	
$	23 Terphenyl-d14	244	9.963	9.963	0.000	99	24327	0.4000	0.4084	
	24 Benzo[a]anthracene	228	11.016	11.016	0.000	83	2101	0.0200	0.0167	
*	25 Chrysene-d12	240	11.026	11.026	0.000	94	14635	0.2000	0.2000	
	26 Chrysene	228	11.055	11.055	0.000	98	2586	0.0200	0.0180	
	27 Benzo[b]fluoranthene	252	12.322	12.322	0.000	98	2159	0.0200	0.0131	
	28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	90	2878	0.0200	0.0154	
	29 Benzo[a]pyrene	252	12.751	12.751	0.000	99	2396	0.0200	0.0169	
*	30 Perylene-d12	264	12.819	12.819	0.000	100	17249	0.2000	0.2000	
	31 Indeno[1,2,3-cd]pyrene	276	14.301	14.301	0.000	81	2745	0.0200	0.0209	
	32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	91	1969	0.0200	0.0157	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
33 Benzo[g,h,i]perylene	276	14.681	14.681	0.000	82	2425	0.0200	0.0152	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

SM_simSlviL3_00011 Amount Added: 1.00 Units: mL

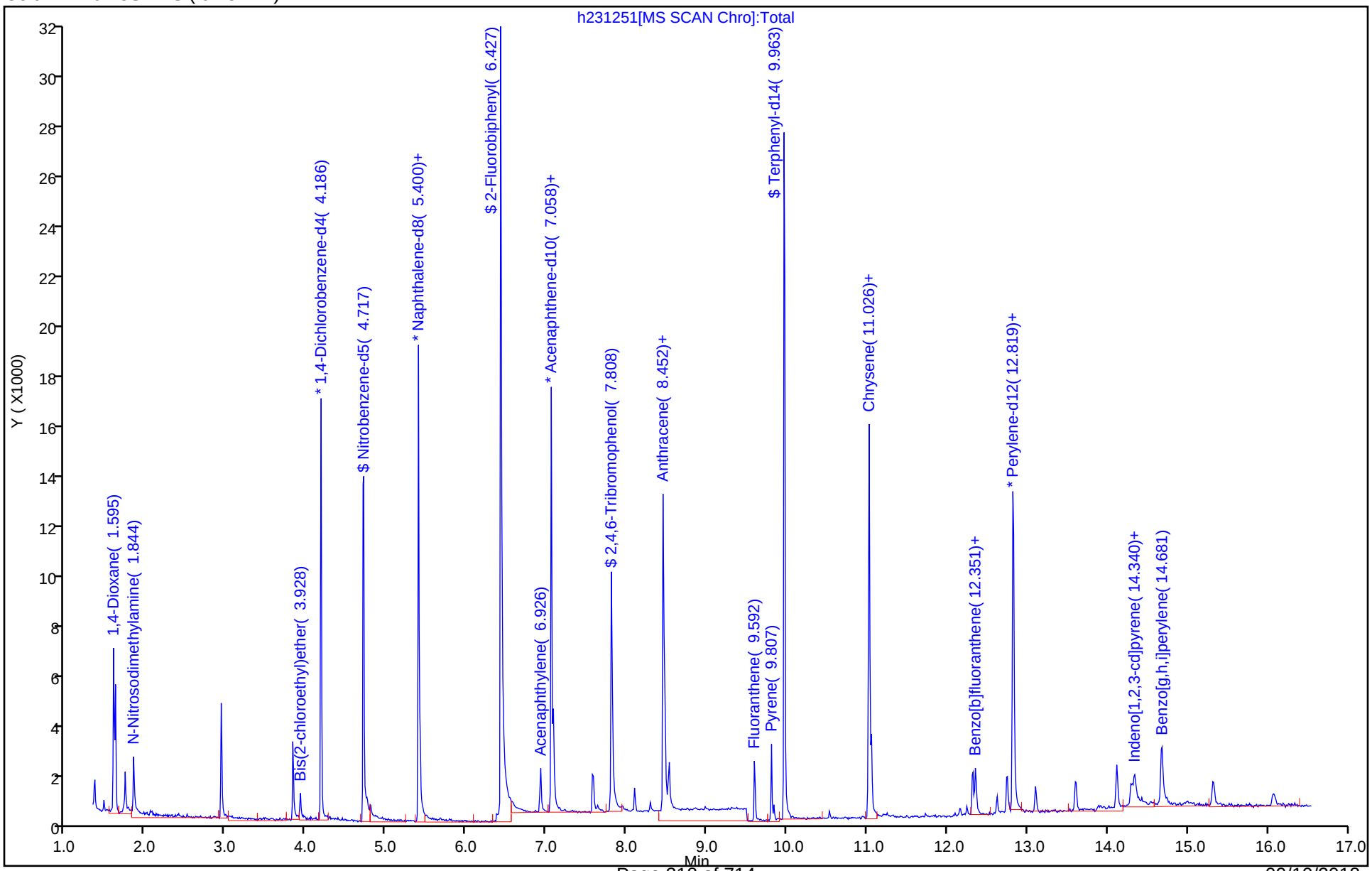
Report Date: 06-Jul-2018 13:32:33 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D

Injection Date:	05-Jul-2018 01:29:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	ccvis			Worklist Smp#:	2
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

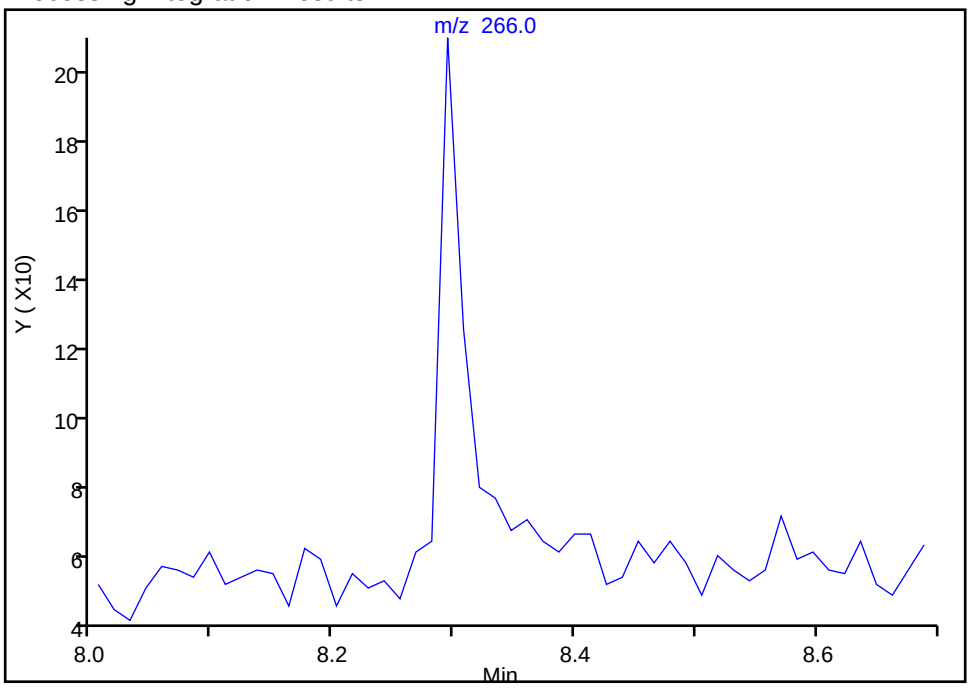
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231251.D
Injection Date: 05-Jul-2018 01:29:30 Instrument ID: CBNAMS9
Lims ID: ccvis
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Column: Rtxi-5Sil MS (0.25 mm) Detector MS SCAN

16 Pentachlorophenol, CAS: 87-86-5

Signal: 1

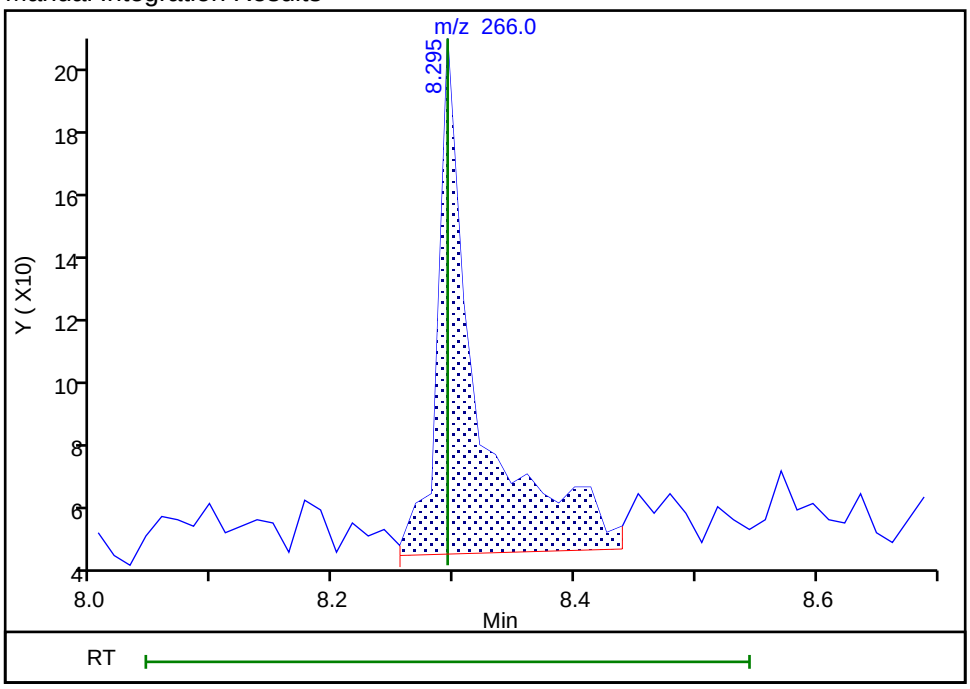
Not Detected
Expected RT: 8.29

Processing Integration Results



Manual Integration Results

RT: 8.29
Area: 367
Amount: 0.027754
Amount Units: ug/ml



Reviewer: khlungprakhons, 06-Jul-2018 13:31:34
Audit Action: Manually Integrated Audit Reason: Other

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 11-Jun-2018 17:43:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0073555-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 12-Jun-2018 09:44:37 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK015

First Level Reviewer: eisam Date: 11-Jun-2018 18:00:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	5.188	5.188	0.000	0	135629	NR	NR	
37 4,4'-DDD	235	5.599	5.599	0.000	0	0		NR	a
35 DFTPP									
36 Benzidine_T	184	6.889	6.889	0.000	0	692227	NR	NR	
38 4,4'-DDE	246	7.623	7.623	0.000	0	0		NR	a
39 4,4'-DDT	235	7.825	7.825	0.000	0	263704	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

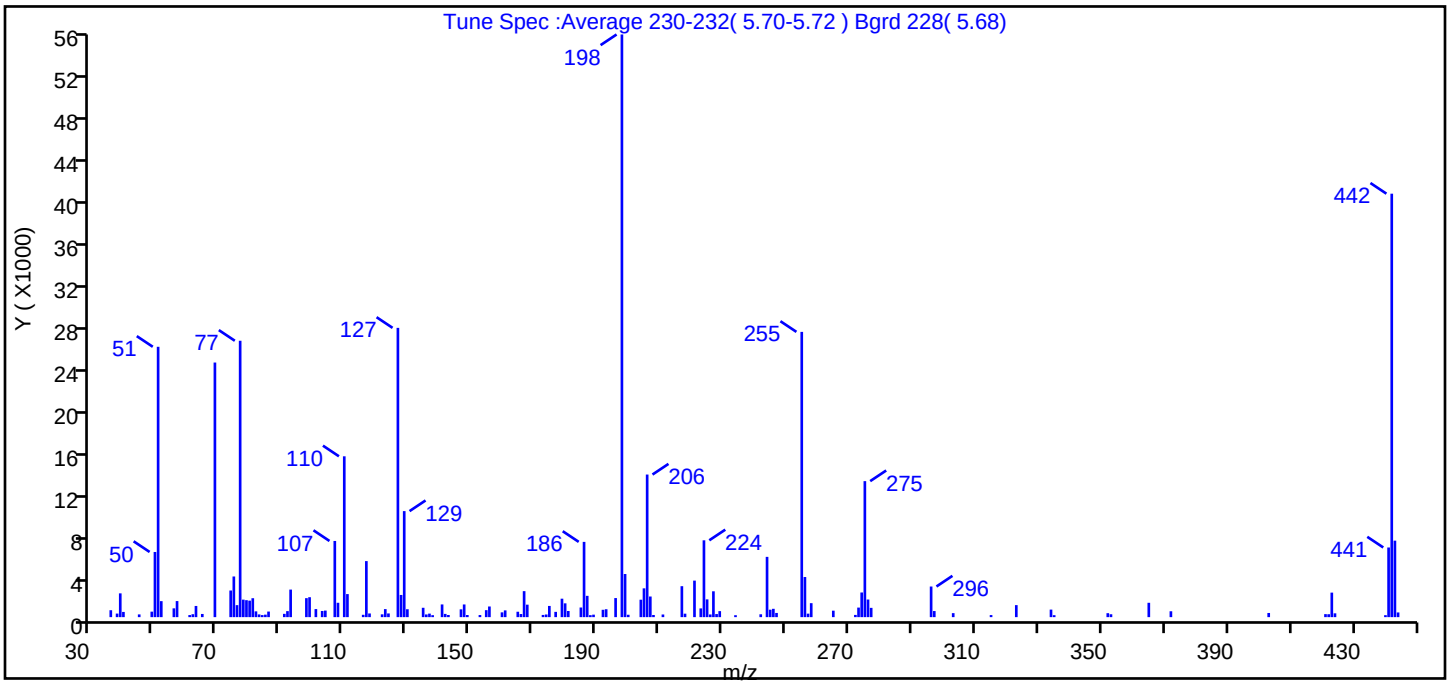
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	46.4
68	<2% of mass 69	0.0 (0.0)
69	Present	43.7
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.4
275	10-30% of mass 198	23.3
365	>1% of mass 198	2.5
441	Present but less than mass 443	12.0 (91.1)
442	>40% of mass 198	72.7
443	17-23% of mass 442	13.1 (18.1)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 11-Jun-2018 17:43:30
Spectrum: Tune Spec :Average 230-232(5.70-5.72) Bgrd 228(5.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	661	104.00	626	175.00	1070	246.00	796
38.00	341	107.00	7276	177.00	505	247.00	401
39.00	2272	108.00	1372	179.00	1763	255.00	27248
40.00	498	110.00	15363	180.00	1318	256.00	3832
45.00	261	111.00	2202	181.00	586	257.00	333
49.00	525	116.00	224	185.00	921	258.00	1335
50.00	6225	117.00	5353	186.00	7189	265.00	618
51.00	25824	118.00	352	187.00	2035	272.00	213
52.00	1528	122.00	268	188.00	190	273.00	913
56.00	841	123.00	767	189.00	237	274.00	2355
57.00	1535	124.00	353	192.00	702	275.00	12991
61.00	198	127.00	27632	193.00	756	276.00	1683
62.00	280	128.00	2119	196.00	1822	277.00	887
63.00	1068	129.00	10128	198.00	55656	296.00	2926
65.00	304	130.00	755	199.00	4120	297.00	582
69.00	24320	135.00	895	200.00	228	303.00	382
74.00	2544	136.00	257	204.00	1666	315.00	198
75.00	3884	137.00	337	205.00	2751	323.00	1148
76.00	1146	138.00	187	206.00	13621	334.00	721
77.00	26400	141.00	1214	207.00	1971	335.00	187
78.00	1673	142.00	309	208.00	206	352.00	379
79.00	1620	143.00	205	211.00	254	353.00	276
80.00	1575	147.00	745	217.00	2957	365.00	1371
81.00	1808	148.00	1212	218.00	331	372.00	562
82.00	553	149.00	204	221.00	3489	403.00	398
83.00	260	153.00	200	223.00	835	421.00	288
84.00	196	155.00	667	224.00	7339	422.00	279
85.00	238	156.00	1018	225.00	1698	423.00	2343
86.00	534	160.00	457	226.00	257	424.00	364
91.00	315	161.00	645	227.00	2469	440.00	188
92.00	574	165.00	516	228.00	295	441.00	6654
93.00	2632	166.00	297	229.00	574	442.00	40448
98.00	1814	167.00	2483	234.00	185	443.00	7306

Report Date: 12-Jun-2018 09:44:37 Chrom Revision: 2.2 11-May-2018 08:54:46
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D\BNsurrSIM_LVI_9.rslt\spectra.d
Injection Date: 11-Jun-2018 17:43:30
Spectrum: Tune Spec :Average 230-232(5.70-5.72) Bgrd 228(5.68)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 142

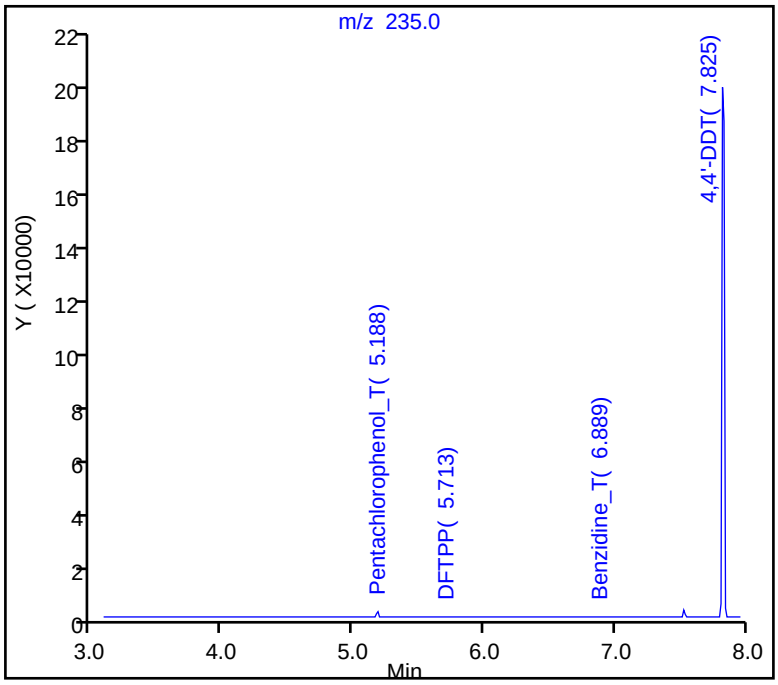
m/z	Y	m/z	Y	m/z	Y	m/z	Y
99.00	1904	168.00	1192	242.00	274	444.00	447
101.00	770	173.00	211	244.00	5758		
103.00	589	174.00	254	245.00	711		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 263704
37 4,4'-DDD, Area = 0
38 4,4'-DDE, Area = 0

%Breakdown: 0.00%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

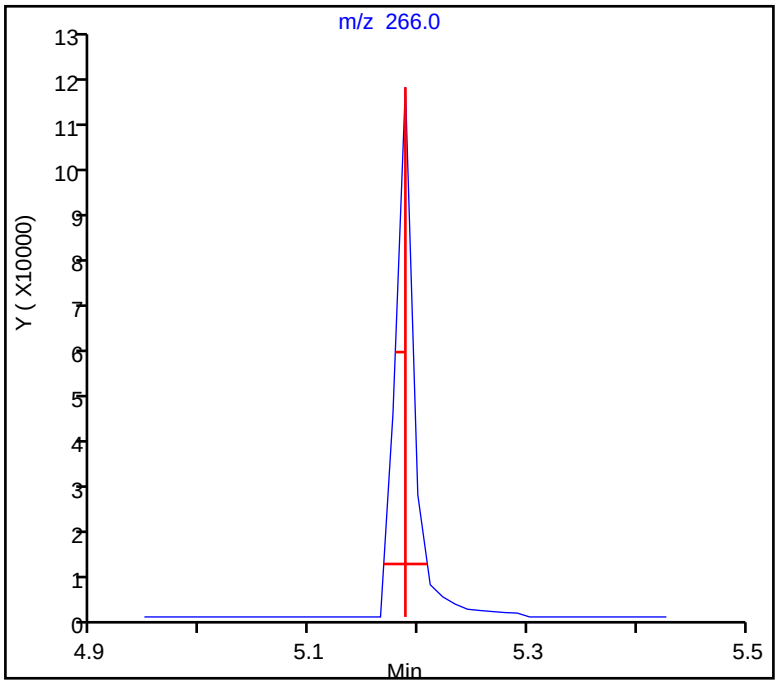
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.020 (min.)
Front Width = 0.020 (min.)

Tailing Factor = 1.0, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

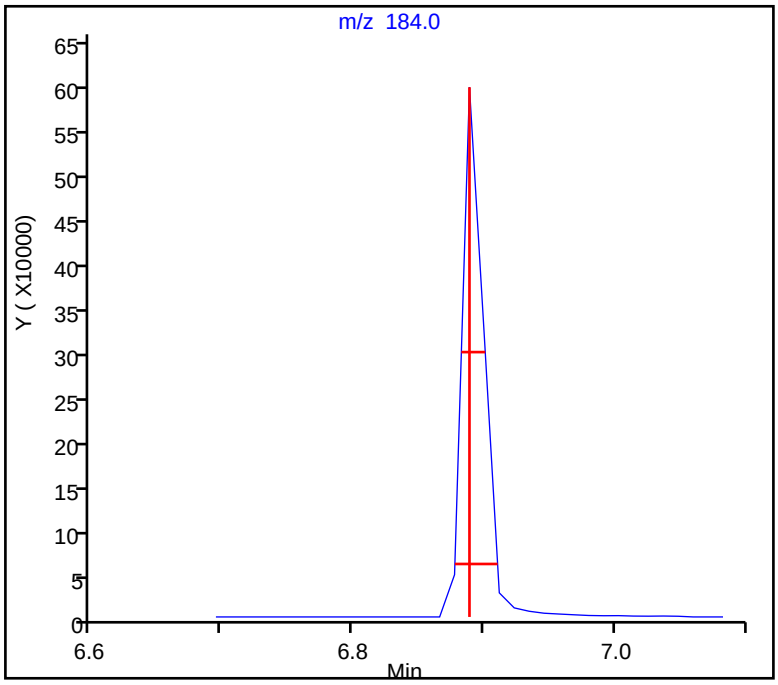
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230597.D
Injection Date: 11-Jun-2018 17:43:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.022 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 1.9, Max. Tailing < 3.00
Passed



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Lims ID: DFTPP
Client ID:
Sample Type: DFTPP
Inject. Date: 05-Jul-2018 01:12:30 ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-001
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:30:17 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:30:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
4 Pentachlorophenol_T	266	4.879	4.879	0.000	0	68232	NR	NR	
35 DFTPP									
36 Benzidine_T	184	6.603	6.603	0.000	0	514658	NR	NR	
37 4,4'-DDD	235	7.231	7.231	0.000	0	2775		NR	
39 4,4'-DDT	235	7.540	7.540	0.000	0	247228	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

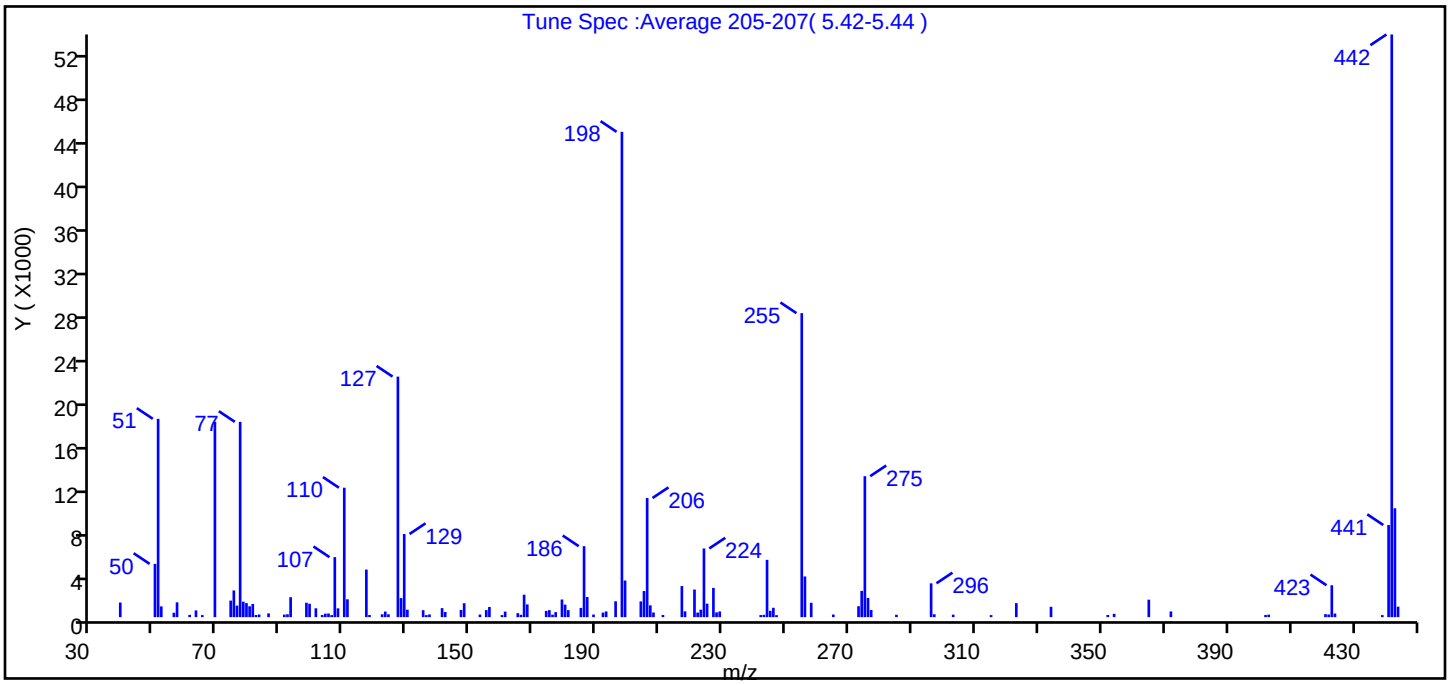
SMDFTP_CH_00024 Amount Added: 1.00 Units: mL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL
Tune Method: DFTPP Method 8270

35 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	Base peak, 100% relative abundance	100.0
51	30-60% of mass 198	40.9
68	<2% of mass 69	0.0 (0.0)
69	Present	40.2
70	<2% of mass 69	0.0 (0.0)
127	40-60% of mass 198	49.6
197	<1% of mass 198	0.0
199	5-9% of mass 198	7.5
275	10-30% of mass 198	29.0
365	>1% of mass 198	3.6
441	Present but less than mass 443	19.0 (84.6)
442	>40% of mass 198	120.1
443	17-23% of mass 442	22.4 (18.7)

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D\BNsurrSIM_LVI_9.rslt\spectra.
Injection Date: 05-Jul-2018 01:12:30
Spectrum: Tune Spec :Average 205-207(5.42-5.44)
Base Peak: 442.00
Minimum % Base Peak: 0
Number of Points: 129

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1347	110.00	11923	181.00	646	256.00	3746
50.00	4906	111.00	1644	185.00	851	258.00	1323
51.00	18272	117.00	4384	186.00	6537	265.00	239
52.00	990	118.00	195	187.00	1854	273.00	1007
56.00	406	122.00	263	189.00	241	274.00	2420
57.00	1365	123.00	514	192.00	421	275.00	12987
61.00	211	124.00	263	193.00	525	276.00	1767
63.00	622	127.00	22160	196.00	1462	277.00	658
65.00	189	128.00	1756	198.00	44712	285.00	220
69.00	17992	129.00	7661	199.00	3375	296.00	3116
74.00	1524	130.00	682	204.00	1447	297.00	265
75.00	2460	135.00	639	205.00	2404	303.00	229
76.00	1066	136.00	187	206.00	10973	315.00	189
77.00	17992	137.00	252	207.00	1087	323.00	1291
78.00	1427	141.00	831	208.00	428	334.00	954
79.00	1294	142.00	475	211.00	197	352.00	199
80.00	1002	147.00	663	217.00	2864	354.00	307
81.00	1215	148.00	1282	218.00	536	365.00	1610
82.00	196	153.00	239	221.00	2544	372.00	527
83.00	243	155.00	648	222.00	419	402.00	198
86.00	345	156.00	939	223.00	687	403.00	234
91.00	235	160.00	188	224.00	6327	421.00	279
92.00	266	161.00	510	225.00	1244	422.00	244
93.00	1838	165.00	369	227.00	2694	423.00	2940
98.00	1326	166.00	216	228.00	438	424.00	332
99.00	1231	167.00	2068	229.00	524	439.00	189
101.00	817	168.00	1173	242.00	192	441.00	8488
103.00	196	174.00	576	243.00	214	442.00	53680
104.00	322	175.00	645	244.00	5279	443.00	10029
105.00	338	176.00	229	245.00	586	444.00	965
106.00	187	177.00	460	246.00	864		
107.00	5529	179.00	1627	247.00	184		
108.00	813	180.00	1152	255.00	28008		

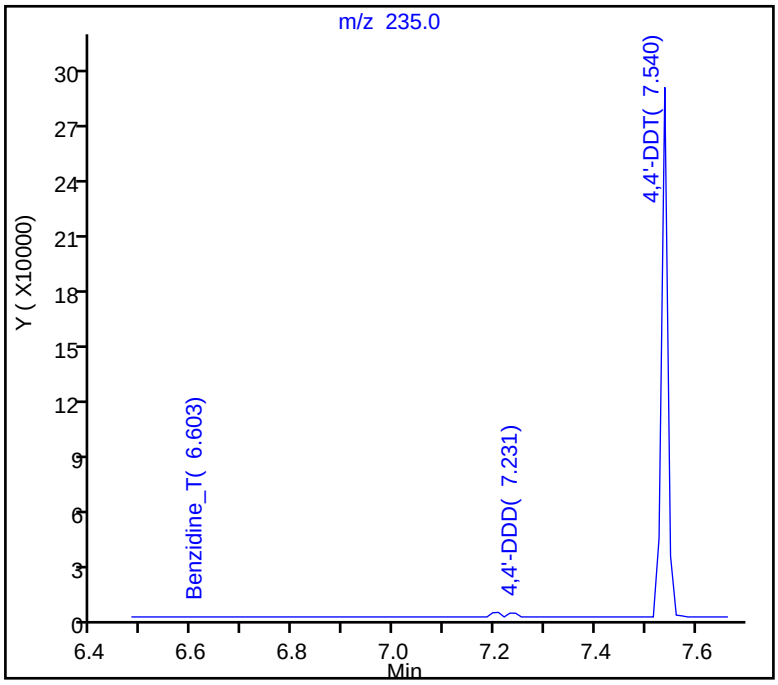
m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	1347	110.00	11923	181.00	646	256.00	3746
50.00	4906	111.00	1644	185.00	851	258.00	1323
51.00	18272	117.00	4384	186.00	6537	265.00	239
52.00	990	118.00	195	187.00	1854	273.00	1007
56.00	406	122.00	263	189.00	241	274.00	2420
57.00	1365	123.00	514	192.00	421	275.00	12987
61.00	211	124.00	263	193.00	525	276.00	1767
63.00	622	127.00	22160	196.00	1462	277.00	658
65.00	189	128.00	1756	198.00	44712	285.00	220
69.00	17992	129.00	7661	199.00	3375	296.00	3116
74.00	1524	130.00	682	204.00	1447	297.00	265
75.00	2460	135.00	639	205.00	2404	303.00	229
76.00	1066	136.00	187	206.00	10973	315.00	189
77.00	17992	137.00	252	207.00	1087	323.00	1291
78.00	1427	141.00	831	208.00	428	334.00	954
79.00	1294	142.00	475	211.00	197	352.00	199
80.00	1002	147.00	663	217.00	2864	354.00	307
81.00	1215	148.00	1282	218.00	536	365.00	1610
82.00	196	153.00	239	221.00	2544	372.00	527
83.00	243	155.00	648	222.00	419	402.00	198
86.00	345	156.00	939	223.00	687	403.00	234
91.00	235	160.00	188	224.00	6327	421.00	279
92.00	266	161.00	510	225.00	1244	422.00	244
93.00	1838	165.00	369	227.00	2694	423.00	2940
98.00	1326	166.00	216	228.00	438	424.00	332
99.00	1231	167.00	2068	229.00	524	439.00	189
101.00	817	168.00	1173	242.00	192	441.00	8488
103.00	196	174.00	576	243.00	214	442.00	53680
104.00	322	175.00	645	244.00	5279	443.00	10029
105.00	338	176.00	229	245.00	586	444.00	965
106.00	187	177.00	460	246.00	864		
107.00	5529	179.00	1627	247.00	184		
108.00	813	180.00	1152	255.00	28008		

Breakdown Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

39 4,4'-DDT, Detector: MS SCAN



SW-846 Method

%Breakdown =
(Area Breakdown Cpnds/
Total Area Breakdown Cpnds) * 100

39 4,4'-DDT, Area = 247228
37 4,4'-DDD, Area = 2775
38 4,4'-DDE, Area = 0

%Breakdown: 1.11%, Max Limit: 20.00%
Passed

Peak Tailing Report

TestAmerica Edison

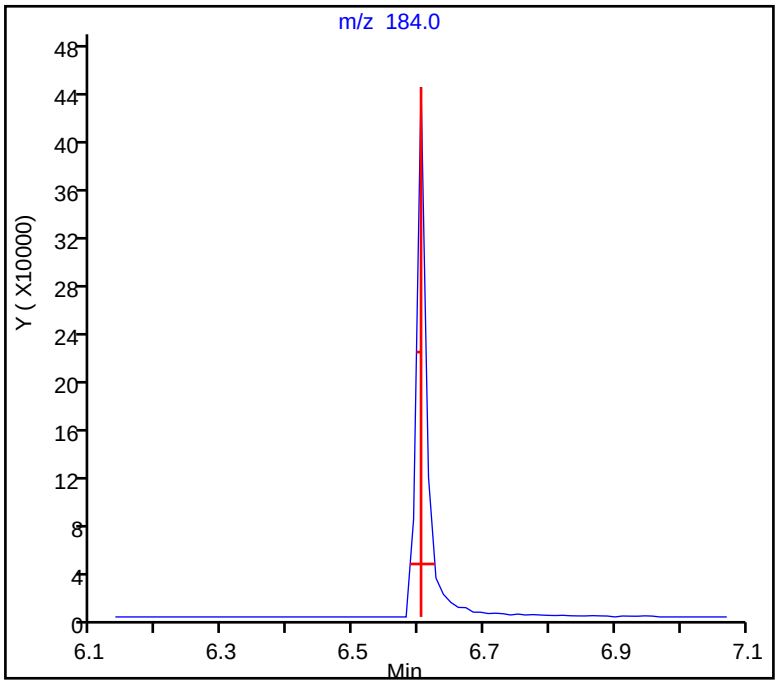
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

36 Benzidine_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.021 (min.)
Front Width = 0.017 (min.)

Tailing Factor = 1.3, Max. Tailing < 3.00
Passed



Peak Tailing Report

TestAmerica Edison

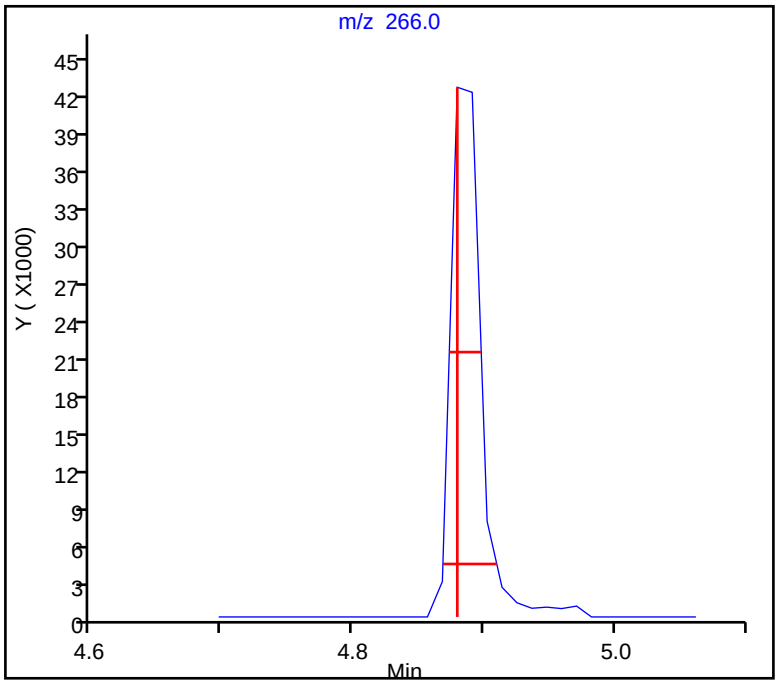
Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231250b.D
Injection Date: 05-Jul-2018 01:12:30 Instrument ID: CBNAMS9
Lims ID: DFTPP
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Method: BNsurrSIM_LVI_9 Limit Group: SV 8270C SIM ICAL

4 Pentachlorophenol_T, Detector: MS SCAN

Peak Tailing Factor =
BackWidth/FrontWidth @ 10% Peak Height

Back Width = 0.030 (min.)
Front Width = 0.011 (min.)

Tailing Factor = 2.7, Max. Tailing < 3.00
Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-533324/1-A

Matrix: Water | Lab File ID: h231275.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:02

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231275.D
Lims ID: MB 460-533324/1-A
Client ID:
Sample Type: MB
Inject. Date: 05-Jul-2018 10:02:30 ALS Bottle#: 26 Worklist Smp#: 26
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-026
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:49:30 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:49:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	99	4252	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	22316	1.00	1.07	
* 7 Naphthalene-d8	136	5.400	5.400	0.000	98	11788	0.2000	0.2000	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	56708	1.00	0.8352	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	96	6343	0.2000	0.2000	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	95	12564	1.00	0.9589	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12411	0.2000	0.2000	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	97	49428	1.00	1.13	
* 25 Chrysene-d12	240	11.026	11.026	0.000	92	10783	0.2000	0.2000	
* 30 Perylene-d12	264	12.829	12.819	0.010	99	11148	0.2000	0.2000	

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

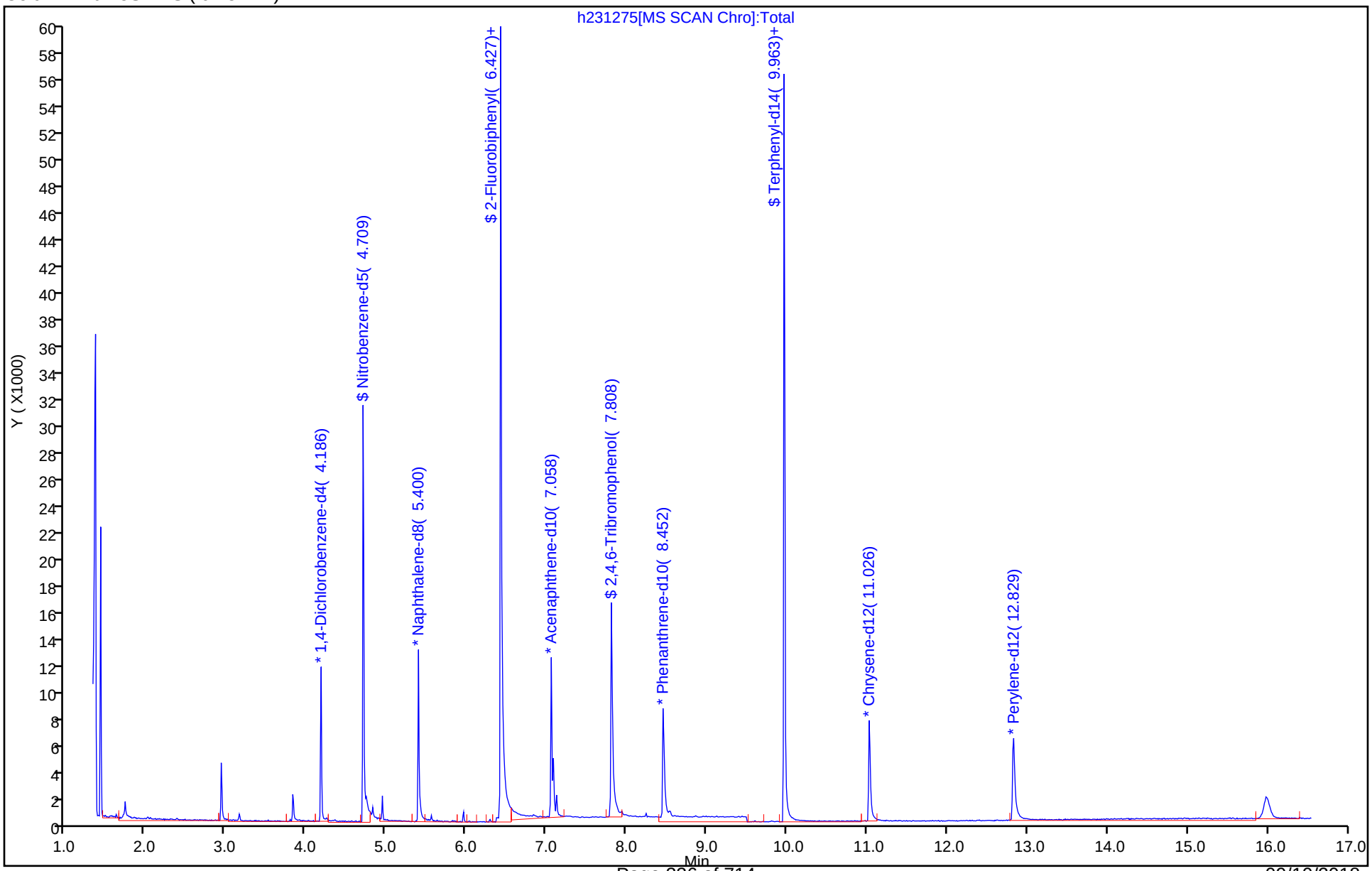
Report Date: 06-Jul-2018 13:49:30 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231275.D

Injection Date:	05-Jul-2018 10:02:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	MB 460-533324/1-A			Worklist Smp#:	26
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	26
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-533324/6-A

Matrix: Water | Lab File ID: h231276.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:23

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.245	J	0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231276.D
Lims ID: LCS 460-533324/6-A
Client ID:
Sample Type: LCS
Inject. Date: 05-Jul-2018 10:23:30 ALS Bottle#: 27 Worklist Smp#: 27
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-027
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:50:30 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:50:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.627	1.619	0.008	98	476	0.1000	0.0306	
2 N-Nitrosodimethylamine	74	1.852	1.844	0.008	87	351	0.1000	0.0304	
3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	85	2074	0.1000	0.0911	
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	99	4208	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	19992	1.00	0.9303	
* 7 Naphthalene-d8	136	5.401	5.400	0.001	98	12171	0.2000	0.2000	
8 Naphthalene	128	5.417	5.417	0.000	100	6181	0.1000	0.0798	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	56846	1.00	0.9095	
10 Acenaphthylene	152	6.913	6.926	-0.013	99	5932	0.1000	0.0736	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	95	5839	0.2000	0.2000	
12 Acenaphthene	154	7.084	7.084	0.000	95	4385	0.1000	0.1098	
13 Fluorene	166	7.571	7.584	-0.013	95	5809	0.1000	0.1246	
14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	76	366	0.2000	0.0809	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	89	12539	1.00	1.04	
15 Hexachlorobenzene	284	8.097	8.097	0.000	99	2780	0.1000	0.0794	
16 Pentachlorophenol	266	8.295	8.295	0.000	90	903	0.2000	0.0585	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12443	0.2000	0.2000	
18 Phenanthrene	178	8.479	8.479	0.000	95	8060	0.1000	0.0774	
19 Anthracene	178	8.531	8.531	0.000	99	8130	0.1000	0.0835	
21 Fluoranthene	202	9.593	9.593	0.001	96	10053	0.1000	0.0998	
22 Pyrene	202	9.807	9.807	0.000	96	9924	0.1000	0.0835	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	97	44276	1.00	1.08	
24 Benzo[a]anthracene	228	11.016	11.016	0.000	26	7974	0.1000	0.0923	
* 25 Chrysene-d12	240	11.026	11.026	0.000	90	10045	0.2000	0.2000	
26 Chrysene	228	11.055	11.055	0.000	98	11227	0.1000	0.1137	
27 Benzo[b]fluoranthene	252	12.322	12.322	0.000	100	8069	0.1000	0.0771	
28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	87	12673	0.1000	0.1074	
29 Benzo[a]pyrene	252	12.741	12.751	-0.010	100	8501	0.1000	0.0946	
* 30 Perylene-d12	264	12.819	12.819	0.000	100	10922	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.301	14.301	0.000	88	6529	0.1000	0.0783	M
32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	95	8567	0.1000	0.1082	
33 Benzo[g,h,i]perylene	276	14.681	14.692	0.000	77	10430	0.1000	0.1033	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

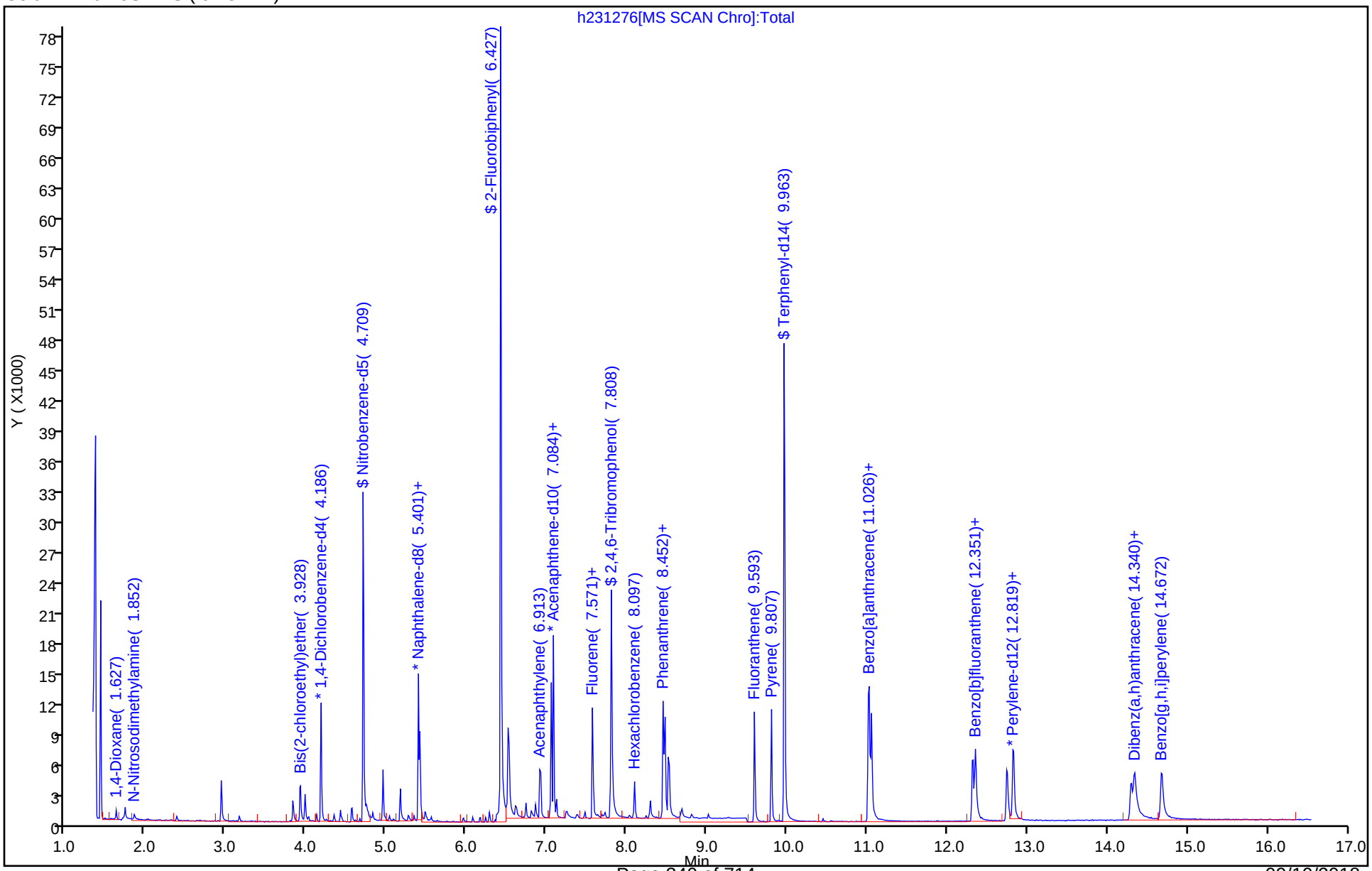
Report Date: 06-Jul-2018 13:50:31 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231276.D

Injection Date:	05-Jul-2018 10:23:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	LCS 460-533324/6-A			Worklist Smp#:	27
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	27
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-533324/7-A

Matrix: Water | Lab File ID: h231277.D

Analysis Method: 8270C | Date Collected:

Extract. Method: 3510C | Date Extracted: 07/03/2018 20:11

Sample wt/vol: 250(mL) | Date Analyzed: 07/05/2018 10:45

Con. Extract Vol.: 2(mL) | Dilution Factor: 1

Injection Volume: 5(uL) | Level: (low/med) Low

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 533482 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.240	J	0.40	0.17

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231277.D
Lims ID: LCSD 460-533324/7-A
Client ID:
Sample Type: LCSD
Inject. Date: 05-Jul-2018 10:45:30 ALS Bottle#: 28 Worklist Smp#: 28
Injection Vol: 5.0 ul Dil. Factor: 1.0000
Sample Info: 460-0074871-028
Operator ID: Instrument ID: CBNAMS9

Method: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\BNsurrSIM_LVI_9.m
Limit Group: SV 8270C SIM ICAL
Last Update: 06-Jul-2018 13:51:05 Calib Date: 11-Jun-2018 20:01:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CBNAMS9\20180611-73555.b\h230603.D

Column 1 : Rtxi-5Sil MS (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: khlungprakhons Date: 06-Jul-2018 13:51:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/ml	OnCol Amt ug/ml	Flags
1 1,4-Dioxane	88	1.627	1.619	0.008	86	488	0.1000	0.0300	
2 N-Nitrosodimethylamine	74	1.852	1.844	0.008	77	323	0.1000	0.0269	
3 Bis(2-chloroethyl)ether	93	3.928	3.928	0.000	86	2161	0.1000	0.0914	
* 5 1,4-Dichlorobenzene-d4	152	4.186	4.186	0.000	96	4368	0.2000	0.2000	
$ 6 Nitrobenzene-d5	82	4.709	4.709	0.001	94	22020	1.00	1.03	
* 7 Naphthalene-d8	136	5.400	5.400	0.000	98	12158	0.2000	0.2000	
8 Naphthalene	128	5.417	5.417	0.000	100	5983	0.1000	0.0773	
$ 9 2-Fluorobiphenyl	172	6.427	6.427	0.000	95	61680	1.00	0.99	
10 Acenaphthylene	152	6.913	6.926	-0.013	99	6108	0.1000	0.0762	
* 11 Acenaphthene-d10	164	7.058	7.058	0.000	94	5809	0.2000	0.2000	
12 Acenaphthene	154	7.084	7.084	0.000	95	4520	0.1000	0.1137	
13 Fluorene	166	7.571	7.584	-0.013	91	5835	0.1000	0.1258	
14 4,6-Dinitro-2-methylphenol	198	7.637	7.637	0.000	76	330	0.2000	0.0730	
$ 20 2,4,6-Tribromophenol	330	7.808	7.808	0.000	90	13947	1.00	1.16	
15 Hexachlorobenzene	284	8.097	8.097	0.000	99	2907	0.1000	0.0818	
16 Pentachlorophenol	266	8.295	8.295	0.000	86	926	0.2000	0.0590	
* 17 Phenanthrene-d10	188	8.452	8.452	0.000	100	12630	0.2000	0.2000	
18 Phenanthrene	178	8.479	8.479	0.000	96	8349	0.1000	0.0790	
19 Anthracene	178	8.518	8.531	-0.013	97	8405	0.1000	0.0851	
21 Fluoranthene	202	9.593	9.593	0.001	95	10242	0.1000	0.1002	
22 Pyrene	202	9.807	9.807	0.000	96	10420	0.1000	0.0853	
$ 23 Terphenyl-d14	244	9.963	9.963	0.000	98	47296	1.00	1.13	
24 Benzo[a]anthracene	228	11.016	11.016	0.000	30	8202	0.1000	0.0924	
* 25 Chrysene-d12	240	11.026	11.026	0.000	91	10320	0.2000	0.2000	
26 Chrysene	228	11.055	11.055	0.000	99	11321	0.1000	0.1116	
27 Benzo[b]fluoranthene	252	12.312	12.322	-0.010	100	8168	0.1000	0.0769	
28 Benzo[k]fluoranthene	252	12.351	12.351	0.000	95	12290	0.1000	0.1026	
29 Benzo[a]pyrene	252	12.741	12.751	-0.010	100	8745	0.1000	0.0959	
* 30 Perylene-d12	264	12.819	12.819	0.000	99	11087	0.2000	0.2000	
31 Indeno[1,2,3-cd]pyrene	276	14.291	14.291	-0.010	89	6681	0.1000	0.0790	M
32 Dibenz(a,h)anthracene	278	14.340	14.340	0.000	92	7935	0.1000	0.0987	
33 Benzo[g,h,i]perylene	276	14.681	14.692	0.000	74	10596	0.1000	0.1034	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SM_SIMISTDLVI_00023 Amount Added: 20.00 Units: uL Run Reagent

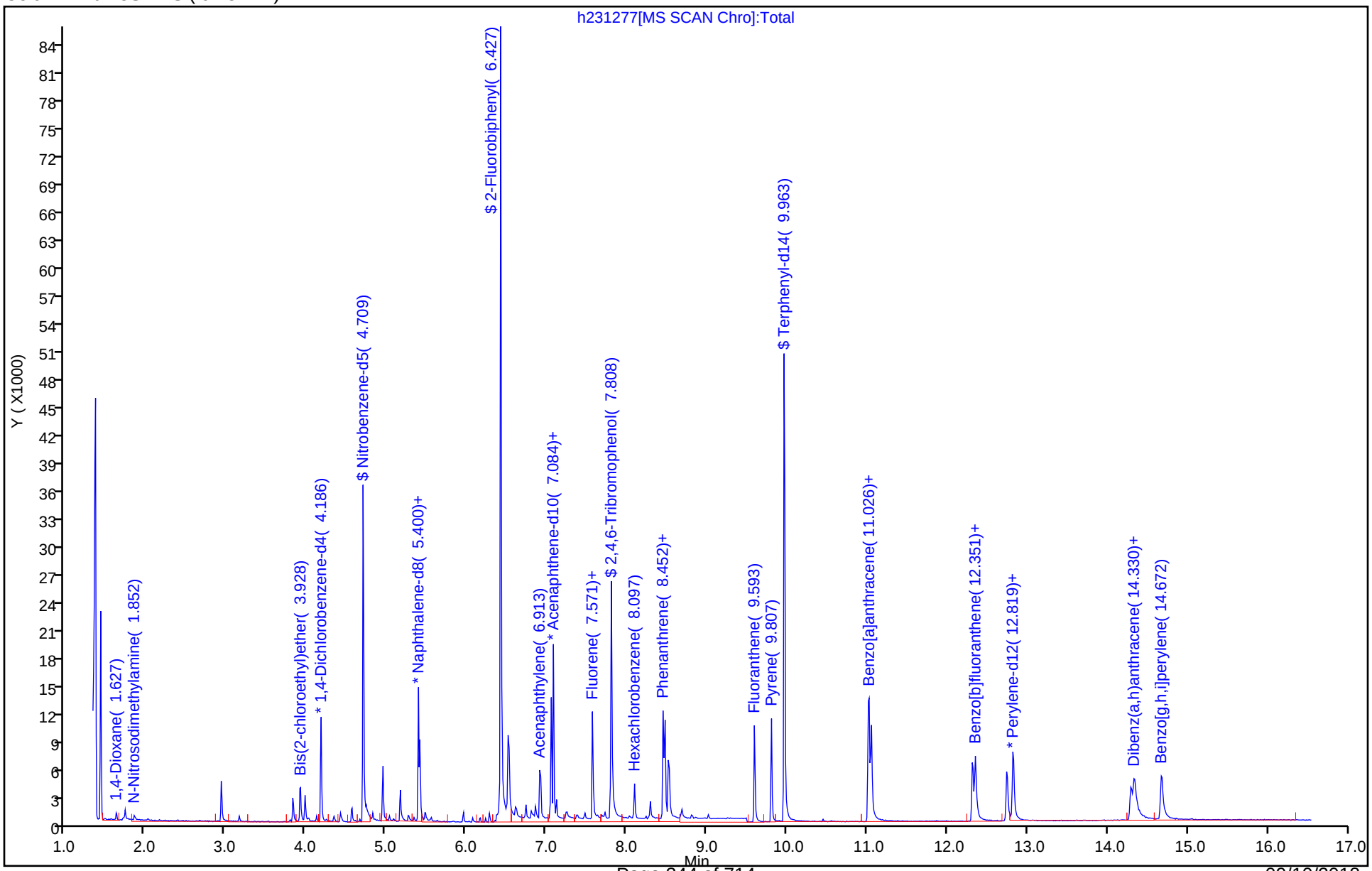
Report Date: 06-Jul-2018 13:51:05 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CBNAMS9\20180705-74871.b\h231277.D

Injection Date:	05-Jul-2018 10:45:30	Instrument ID:	CBNAMS9	Operator ID:	
Lims ID:	LCSD 460-533324/7-A			Worklist Smp#:	28
Client ID:					
Injection Vol:	5.0 ul	Dil. Factor:	1.0000	ALS Bottle#:	28
Method:	BNsurrSIM_LVI_9	Limit Group:	SV 8270C SIM ICAL		

Column: Rtxi-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 06/11/2018 17:43

Analysis Batch Number: 526858 End Date: 06/11/2018 20:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-526858/1		06/11/2018 17:43	1	h230597.D	Rtxi-5Sil MS 0.25(mm)
ICIS 460-526858/2		06/11/2018 18:10	1	h230598.D	Rtxi-5Sil MS 0.25(mm)
STD6 460-526858/3 IC		06/11/2018 18:36	1	h230599.D	Rtxi-5Sil MS 0.25(mm)
STD5 460-526858/4 IC		06/11/2018 18:58	1	h230600.D	Rtxi-5Sil MS 0.25(mm)
STD4 460-526858/5 IC		06/11/2018 19:19	1	h230601.D	Rtxi-5Sil MS 0.25(mm)
STD2 460-526858/6 IC		06/11/2018 19:40	1	h230602.D	Rtxi-5Sil MS 0.25(mm)
STD1 460-526858/7 IC		06/11/2018 20:01	1	h230603.D	Rtxi-5Sil MS 0.25(mm)
ICV 460-526858/8		06/11/2018 20:22	1		Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Instrument ID: CBNAMS9 Start Date: 07/05/2018 01:12

Analysis Batch Number: 533482 End Date: 07/05/2018 12:09

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 460-533482/1		07/05/2018 01:12	1	h231250b.D	Rtxi-5Sil MS 0.25(mm)
CCVIS 460-533482/2		07/05/2018 01:29	1	h231251.D	Rtxi-5Sil MS 0.25(mm)
MB 460-533324/1-A		07/05/2018 10:02	1	h231275.D	Rtxi-5Sil MS 0.25(mm)
LCS 460-533324/6-A		07/05/2018 10:23	1	h231276.D	Rtxi-5Sil MS 0.25(mm)
LCSD 460-533324/7-A		07/05/2018 10:45	1	h231277.D	Rtxi-5Sil MS 0.25(mm)
460-159314-4		07/05/2018 12:09	1	h231281.D	Rtxi-5Sil MS 0.25(mm)

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159314-1

SDG No.:

Batch Number: 533324 Batch Start Date: 07/03/18 20:11 Batch Analyst: Yallabandi, Gopichand X

Batch Method: 3510C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	SecondAdjustpH	OP_BNA SIM SP 00015
MB 460-533324/1		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	
LCS 460-533324/6		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
LCSD 460-533324/7		3510C, 8270C		250 mL	2 mL	7 SU	<2 SU	>12 SU	20 uL
460-159314-F-4	PDI-MW-161-1-I-06262018	3510C, 8270C	T	245 mL	2 mL	7 SU	<2 SU	>12 SU	

Lab Sample ID	Client Sample ID	Method Chain	Basis	OP_BNASurroga 00014					
MB 460-533324/1		3510C, 8270C		20 uL					
LCS 460-533324/6		3510C, 8270C		20 uL					
LCSD 460-533324/7		3510C, 8270C		20 uL					
460-159314-F-4	PDI-MW-161-1-I-06262018	3510C, 8270C	T	20 uL					

Batch Notes	
Batch Comment	3510C LVI 8270D SIM ONLY
Analyst ID - Concentration	gy
Equipment ID - Concentration 1	BNA
Analyst ID - Extraction	gy
Method/Fraction	BNA SIM ONLY
Na2SO4 ID	167549
Pipette/Syringe/Dispenser ID	BNA
Prep Solvent ID	202207 mecl
Prep Solvent Volume Used	120 mL
Analyst ID - Spike Analyst	gy
Sufficient Volume for Batch QC	Yes

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method PFC IDA

Fluorinated Hydrocarbons by Method PFAS IDA

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	PFBS #	PFHxA #	PFHpA #	PFHxS #	PFOA #	PFNA #
PDI-MW-161-1-I-062 62018	460-159314-4	32	33	32	35	35	34	33	32
	MB 320-232888/1-A	81	78	77	79	84	93	87	87
	LCS 320-232888/2-A	87	81	81	87	93	92	90	91
	LCSD 320-232888/3-A	83	82	78	84	86	87	89	89

	QC LIMITS
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
PFBS = 13C3-PFBS	25-150
PFHxA = 13C2 PFHxA	25-150
PFHpA = 13C4-PFHpA	25-150
PFHxS = 18O2 PFHxS	25-150
PFOA = 13C4 PFOA	25-150
PFNA = 13C5 PFNA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFOSA #	PFDA #	PFUnA #	PFDoA #	PFTDA #
PDI-MW-161-1-I-062 62018	460-159314-4	30	25	31	30	26	21 *
	MB 320-232888/1-A	85	75	88	85	87	80
	LCS 320-232888/2-A	86	80	93	91	88	83
	LCSD 320-232888/3-A	86	77	90	92	85	80

	QC LIMITS
PFOS = 13C4 PFOS	25-150
PFOSA = 13C8 FOSA	25-150
PFDA = 13C2 PFDA	25-150
PFUnA = 13C2 PFUnA	25-150
PFDoA = 13C2 PFDoA	25-150
PFTDA = 13C2-PFTeDA	25-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.07.10LLB_049.d

Lab ID: LCS 320-232888/2-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	37.3	93	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	38.4	96	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	38.9	97	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	37.4	93	66-126	
Perfluorooctanoic acid (PFOA)	40.0	39.1	98	64-124	
Perfluorononanoic acid (PFNA)	40.0	40.3	101	68-128	
Perfluorodecanoic acid (PFDA)	40.0	37.6	94	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	36.5	91	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	38.4	96	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0	82	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6	94	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6	101	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8	93	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0	108	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9	102	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	35.6	92	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	40.0	100	70-130	
13C8 FOSA	100	79.6	80	25-150	
13C4 PFBA	100	86.9	87	25-150	
13C2 PFHxA	100	87.0	87	25-150	
13C4 PFOA	100	90.1	90	25-150	
13C5 PFNA	100	90.7	91	25-150	
13C2 PFDA	100	92.7	93	25-150	
13C2 PFUnA	100	90.6	91	25-150	
13C2 PFDoA	100	88.2	88	25-150	
18O2 PFHxS	94.6	86.7	92	25-150	
13C4 PFOS	95.6	82.1	86	25-150	
13C4-PFHpA	100	92.7	93	25-150	
13C5 PFPeA	100	81.1	81	25-150	
13C3-PFBS	93.0	75.7	81	25-150	
13C2-PFTeDA	100	82.6	83	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Matrix: Water Level: Low Lab File ID: 2018.07.10LLB_050.d

Lab ID: LCSD 320-232888/3-A Client ID:

COMPOUND	SPIKE ADDED (ng/L)	LCSD CONCENTRATION (ng/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	36.7	92	2	30	70-130	
Perfluoropentanoic acid (PFPeA)	40.0	36.2	90	6	30	66-126	
Perfluorohexanoic acid (PFHxA)	40.0	38.0	95	2	30	66-126	
Perfluoroheptanoic acid (PFHpA)	40.0	38.8	97	4	30	66-126	
Perfluorooctanoic acid (PFOA)	40.0	39.9	100	2	30	64-124	
Perfluorononanoic acid (PFNA)	40.0	39.1	98	3	30	68-128	
Perfluorodecanoic acid (PFDA)	40.0	38.9	97	3	30	69-129	
Perfluoroundecanoic acid (PFUnA)	40.0	35.3	88	3	30	60-120	
Perfluorododecanoic acid (PFDoA)	40.0	38.1	95	1	30	71-131	
Perfluorotridecanoic Acid (PFTriA)	40.0	33.1	83	0	30	72-132	
Perfluorotetradecanoic acid (PFTeA)	40.0	38.1	95	1	30	68-128	
Perfluorobutanesulfonic acid (PFBS)	35.4	34.3	97	4	30	73-133	
Perfluorohexanesulfonic acid (PFHxS)	36.4	32.8	90	3	30	63-123	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	38.1	100	7	30	68-128	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.0	94	8	30	67-127	
Perfluorodecanesulfonic acid (PFDS)	38.6	34.3	89	4	30	68-128	
Perfluorooctane Sulfonamide (FOSA)	40.0	38.0	95	5	30	70-130	
13C8 FOSA	100	76.8	77			25-150	
13C4 PFBA	100	82.7	83			25-150	
13C2 PFHxA	100	84.1	84			25-150	
13C4 PFOA	100	88.9	89			25-150	
13C5 PFNA	100	88.8	89			25-150	
13C2 PFDA	100	90.0	90			25-150	
13C2 PFUnA	100	91.9	92			25-150	
13C2 PFDoA	100	84.8	85			25-150	
18O2 PFHxS	94.6	82.6	87			25-150	
13C4 PFOS	95.6	82.3	86			25-150	
13C4-PFHpA	100	85.8	86			25-150	
13C5 PFPeA	100	81.5	82			25-150	
13C3-PFBS	93.0	72.4	78			25-150	
13C2-PFTeDA	100	79.7	80			25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab File ID: 2018.07.10LLB_048.d Lab Sample ID: MB 320-232888/1-A

Matrix: Water Date Extracted: 07/07/2018 09:25

Instrument ID: A8_N Date Analyzed: 07/11/2018 01:51

Level:(Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-232888/2-A	2018.07.10LLB_049.d	07/11/2018 01:58
	LCSD 320-232888/3-A	2018.07.10LLB_050.d	07/11/2018 02:06
PDI-MW-161-1-I-06262018	460-159314-4	2018.07.12LLC_044.d	07/13/2018 01:28

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: IC 320-232544/5 Date Analyzed: 07/05/2018 09:14

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.05LLICALAA_ Heated Purge: (Y/N) N

Calibration ID: 39943

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4451960	2.67				
UPPER LIMIT		6677940	2.87				
LOWER LIMIT		2225980	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-232544/9		4449433	2.67				
ICV 320-232544/10		4482111	2.66				
CCV 320-233302/3 CCVIS		4224633	2.66				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: CCV 320-233302/3 Date Analyzed: 07/10/2018 20:22

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.10LLB_006.d Heated Purge: (Y/N) N

Calibration ID: 39943

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		4224633	2.66				
UPPER LIMIT		6336950	2.86				
LOWER LIMIT		2112317	2.46				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-233302/1		4312238	2.67				
CCVL 320-233302/2		4383599	2.67				
CCV 320-233309/1		4077182	2.65				
MB 320-232888/1-A		5197613	2.66				
LCS 320-232888/2-A		4997419	2.66				
LCSD 320-232888/3-A		4964090	2.66				
CCV 320-233309/12		3626486	2.66				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: IC 320-233476/5 Date Analyzed: 07/11/2018 15:15

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.11LLICALA_0 Heated Purge: (Y/N) N

Calibration ID: 39998

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
INITIAL CALIBRATION MID-POINT		4343809	2.67				
UPPER LIMIT		6515714	2.87				
LOWER LIMIT		2171905	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICB 320-233476/9		3951281	2.66				
ICV 320-233476/10		4109601	2.67				
CCV 320-233780/3 CCVIS		3599316	2.67				

13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Sample No.: CCV 320-233780/3 Date Analyzed: 07/13/2018 00:17

Instrument ID: A8_N GC Column: GeminiC18 3x100 ID: 3(mm)

Lab File ID (Standard): 2018.07.12LLC_035.d Heated Purge: (Y/N) N

Calibration ID: 39998

		13PFOA					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		3599316	2.67				
UPPER LIMIT		5398974	2.87				
LOWER LIMIT		1799658	2.47				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCB 320-233780/1		3817065	2.68				
CCVL 320-233780/2		3802645	2.67				
460-159314-4	PDI-MW-161-1-I-06262018	4571818	2.67				
CCV 320-233780/13		2847127	2.67				

13PFOA = 13C2-PFOA
13PFOA = 13C2-PFOA

Area Limit = 50%-150% of internal standard area
RT Limit = ± 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 537 (MODIFIED)

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 | Lab Sample ID: 460-159314-4

Matrix: Water | Lab File ID: 2018.07.12LLC_044.d

Analysis Method: 537 (modified) | Date Collected: 06/26/2018 11:10

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 308.4(mL) | Date Analyzed: 07/13/2018 01:28

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233780 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	5.2		1.6	0.28
2706-90-3	Perfluoropentanoic acid (PFPeA)	6.9		1.6	0.40
307-24-4	Perfluorohexanoic acid (PFHxA)	6.7		1.6	0.47
375-85-9	Perfluoroheptanoic acid (PFHpA)	5.5		1.6	0.20
335-67-1	Perfluorooctanoic acid (PFOA)	14		1.6	0.69
375-95-1	Perfluorononanoic acid (PFNA)	4.9		1.6	0.22
335-76-2	Perfluorodecanoic acid (PFDA)	0.54	J	1.6	0.25
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.89
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		1.6	1.1
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.24
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.6	0.16
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.6	0.14
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.15
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	15		1.6	0.44
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.26
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		1.6	0.28

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Client Sample ID: PDI-MW-161-1-I-06262018 Lab Sample ID: 460-159314-4

Matrix: Water Lab File ID: 2018.07.12LLC_044.d

Analysis Method: 537 (modified) Date Collected: 06/26/2018 11:10

Extraction Method: 3535 Date Extracted: 07/07/2018 09:25

Sample wt/vol: 308.4(mL) Date Analyzed: 07/13/2018 01:28

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 233780 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	25		25-150
STL00992	13C4 PFBA	32		25-150
STL00993	13C2 PFHxA	35		25-150
STL00990	13C4 PFOA	33		25-150
STL00995	13C5 PFNA	32		25-150
STL00996	13C2 PFDA	31		25-150
STL00997	13C2 PFUnA	30		25-150
STL00998	13C2 PFDoA	26		25-150
STL00994	18O2 PFHxS	34		25-150
STL00991	13C4 PFOS	30		25-150
STL01892	13C4-PFHpA	35		25-150
STL01893	13C5 PFPeA	33		25-150
STL02337	13C3-PFBS	32		25-150
STL02116	13C2-PFTeDA	21	*	25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d
Lims ID: 460-159314-D-4-A
Client ID: PDI-MW-161-1-I-06262018
Sample Type: Client
Inject. Date: 13-Jul-2018 01:28:11 ALS Bottle#: 30 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: 460-159314-d-4-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 06-Sep-2018 08:42:43 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK012

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:17:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.424	1.424	0.0	1.000	122856	0.1592			52.5	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.429	-0.005	0.534	1957504	0.7894		31.6	11696	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.719	0.0	0.645	1426098	0.8274		33.1	14329	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.720	-0.001	1.000	146784	0.2121			35.6	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.764	-0.008	0.658	32587	0.7523		32.4	153	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	1.756	1.765	-0.009	1.000	41873	0.0391			12.4	M
298.90 > 99.00	1.756	1.765	-0.009	1.000	18399		2.28(1.25-3.74)		64.3	M
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.003	-0.001	1.000	136893	0.2052			106	
313.00 > 119.00	2.002	2.003	-0.001	1.000	11977		11.43(5.03-15.10)		140	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.014	-0.012	0.751	1619991	0.8709		34.8	42993	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.869	1504229	0.8778		35.1	37470	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.320	-0.001	1.000	117033	0.1682			134	
363.00 > 169.00	2.319	2.320	-0.001	1.000	46538		2.51(1.13-3.40)		454	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.333	-0.001	1.000	37172	0.0391			69.3	
399.00 > 99.00	2.332	2.333	-0.001	1.000	12384		3.00(1.50-4.49)		68.5	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.345	-0.013	0.874	1958734	0.8068		34.1	38246	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.668	-0.001		4571818	2.50			50541	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.668	-0.001	1.000	312377	0.4340			209	
413.00 > 169.00	2.667	2.668	-0.001	1.000	157157		1.99(0.84-2.52)		1016	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.674	-0.007	1.000	1461012	0.8357		33.4	30691	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.028	3.024	0.004	1.000	290576	0.4778			2536	
499.00 > 99.00	3.028	3.024	0.004	1.000	58004		5.01(2.31-6.93)		1286	
20 Perfluorononanoic acid										
463.00 > 419.00	3.028	3.024	0.004	1.000	82760	0.1512			181	
463.00 > 169.00	3.028	3.024	0.004	1.000	19710		4.20(1.90-5.69)		755	
D 19 13C5 PFNA										
468.00 > 423.00	3.028	3.030	-0.002	1.135	1233329	0.7891		31.6	23990	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.030	-0.002	1.135	1282773	0.7201		30.1	12962	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.368	-0.003	1.262	1604777	0.6247		25.0	20529	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.383	3.380	0.003	1.000	7385	0.0167			43.0	
513.00 > 169.00	3.393	3.380	0.013	1.003	1247		5.92(2.36-7.09)		33.1	
D 23 13C2 PFDA										
515.00 > 470.00	3.383	3.387	-0.004	1.269	1056516	0.7700		30.8	12704	
D 30 13C2 PFUnA										
565.00 > 520.00	3.700	3.707	-0.007	1.388	856273	0.7473		29.9	22175	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.500	783121	0.6592		26.4	9322	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.501	-0.011	1.684	653472	0.5302		21.2	4904	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 06-Sep-2018 08:42:48 Chrom Revision: 2.3 19-Jul-2018 15:14:50

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d

Injection Date: 13-Jul-2018 01:28:11 Instrument ID: A8_N

Lims ID: 460-159314-D-4-A Lab Sample ID: 320-159314-4

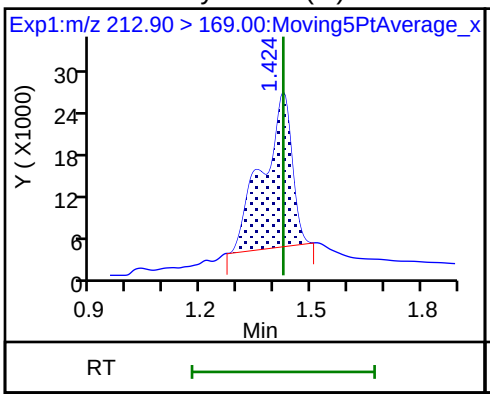
Client ID: PDI-MW-161-1-I-06262018

Operator ID: SACINSTLCMS01 ALS Bottle#: 30 Worklist Smp#: 12

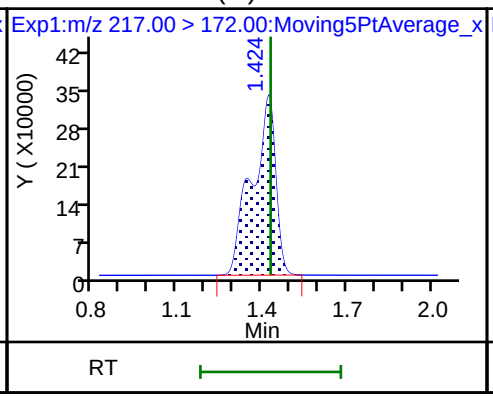
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

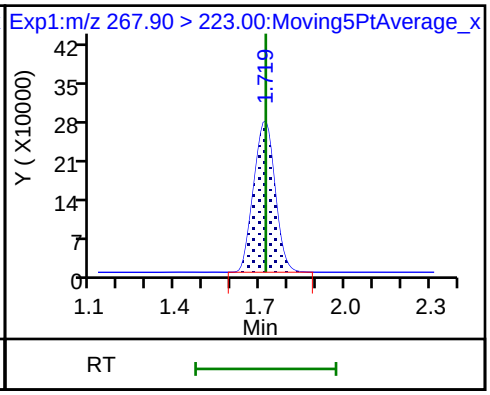
2 Perfluorobutyric acid (M)



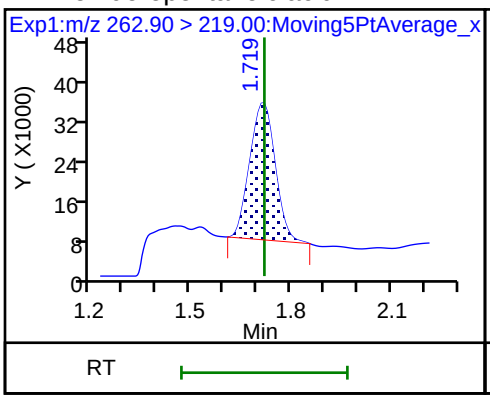
D 1 13C4 PFBA (M)



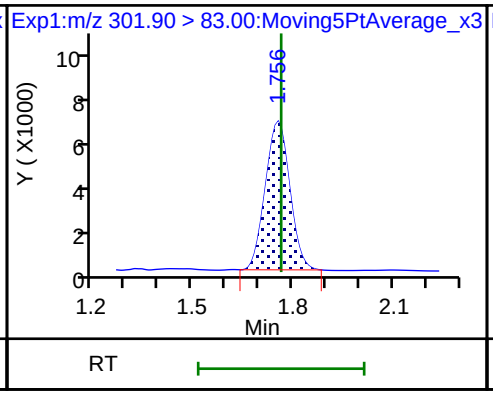
D 3 13C5-PFPeA



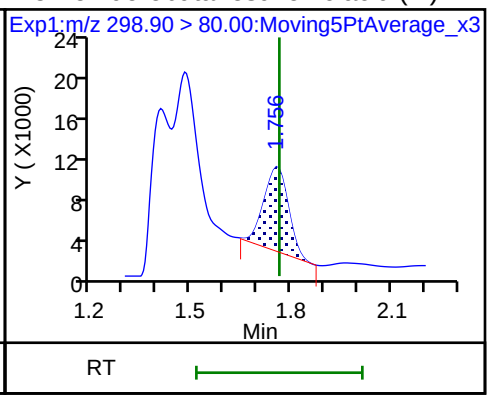
4 Perfluoropentanoic acid



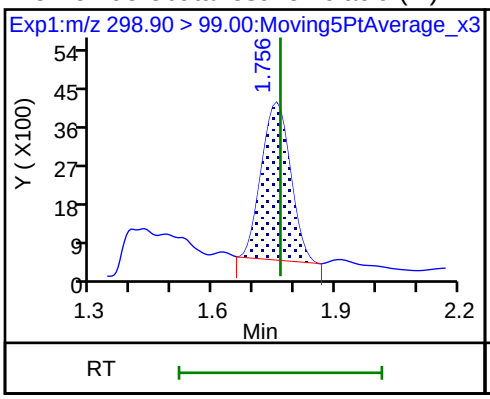
D 47 13C3-PFBS



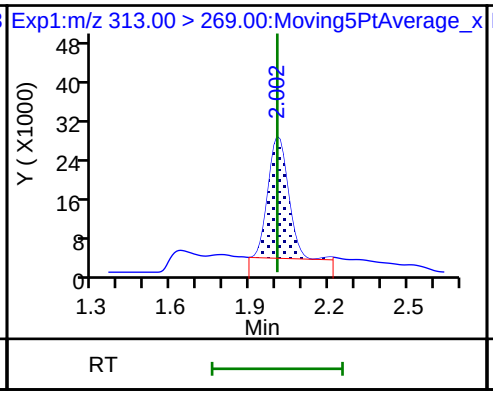
5 Perfluorobutanesulfonic acid (M)



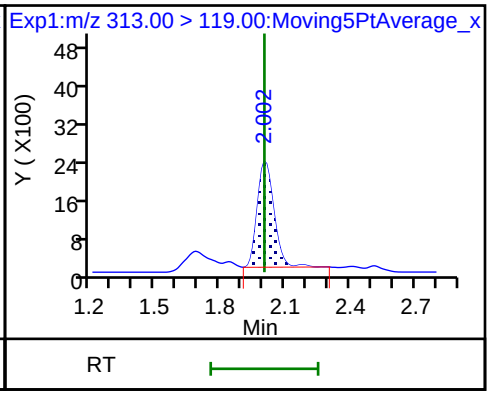
5 Perfluorobutanesulfonic acid (M)



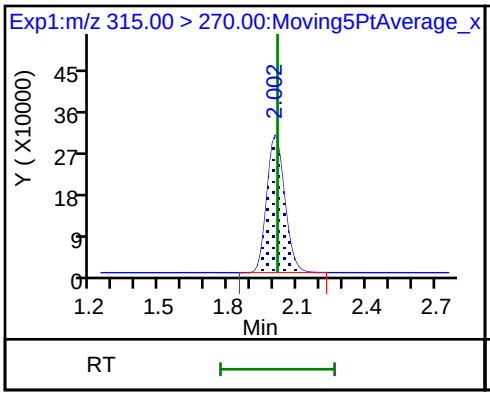
6 Perfluorohexanoic acid



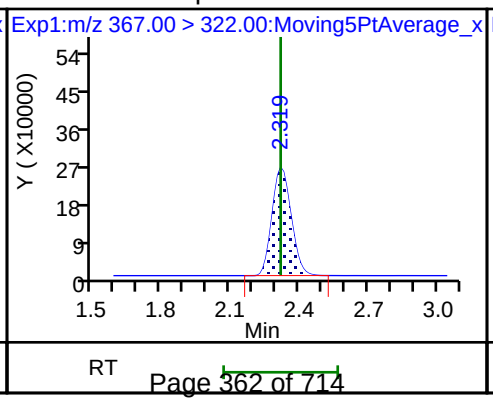
6 Perfluorohexanoic acid



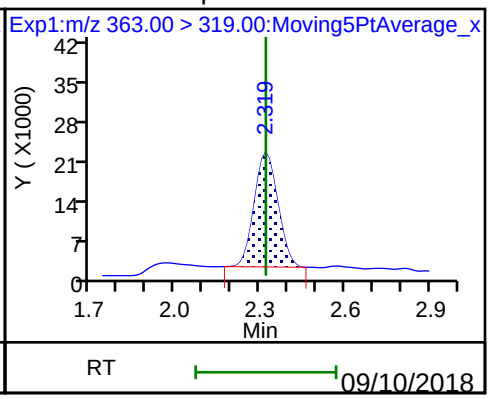
D 7 13C2 PFHxA



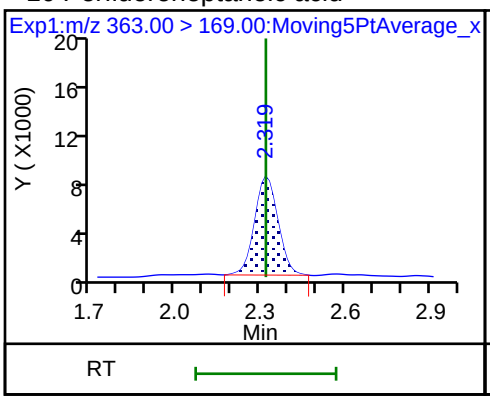
D 9 13C4-PFHpA



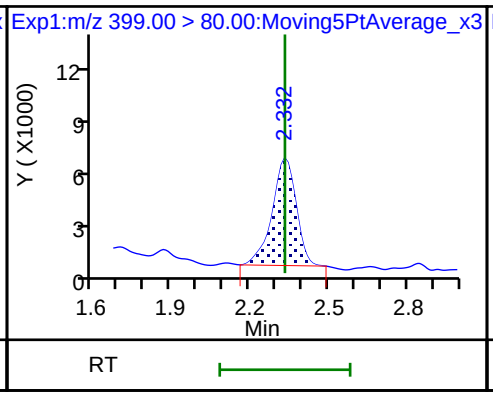
10 Perfluoroheptanoic acid



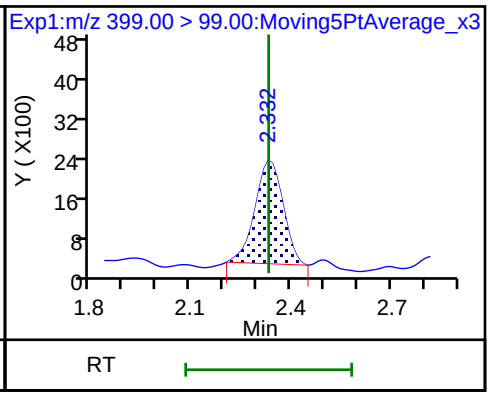
10 Perfluoroheptanoic acid



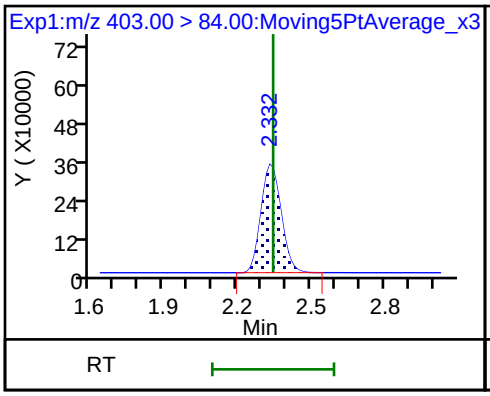
8 Perfluorohexanesulfonic acid



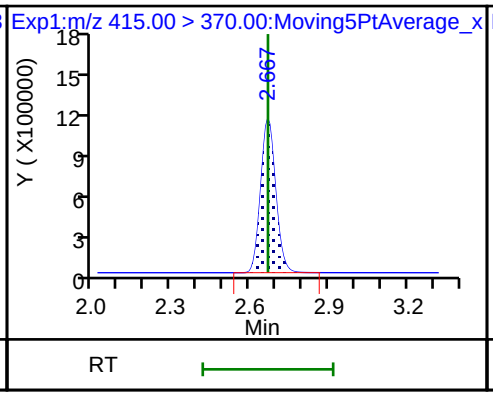
8 Perfluorohexanesulfonic acid



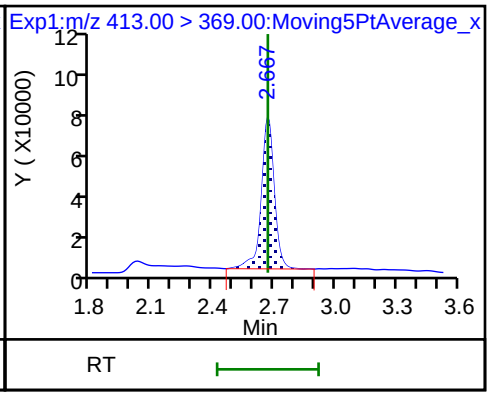
D 11 18O2 PFHxS



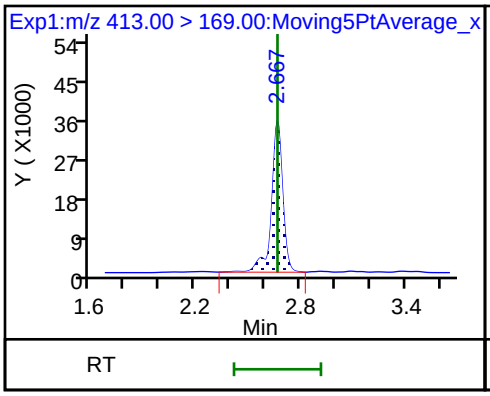
* 62 13C2-PFOA



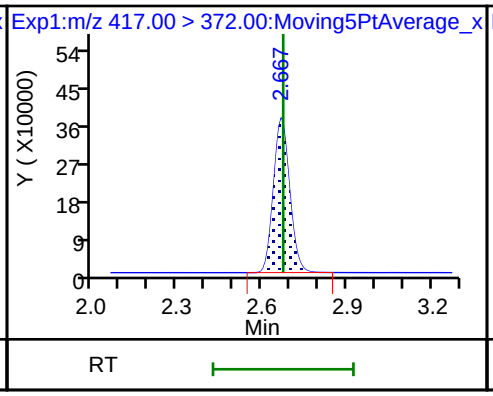
15 Perfluorooctanoic acid



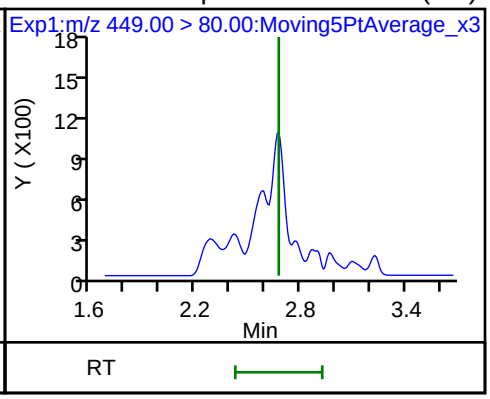
15 Perfluorooctanoic acid



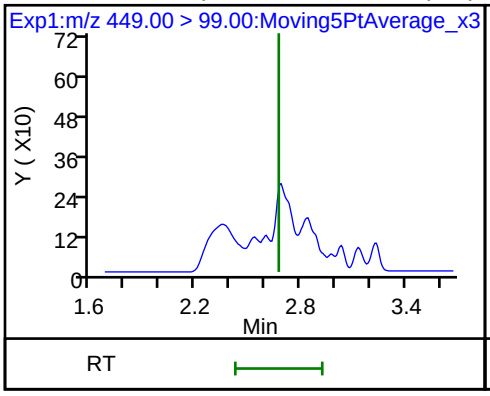
D 14 13C4 PFOA



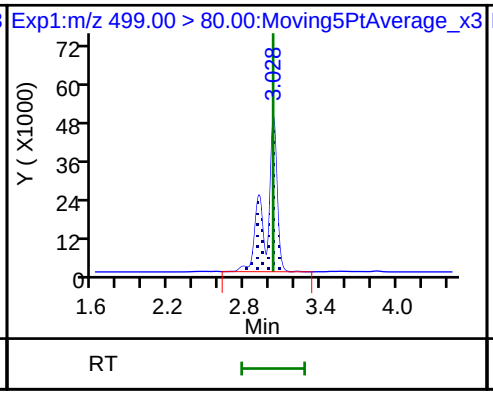
16 Perfluoroheptanesulfonic acid (ND)



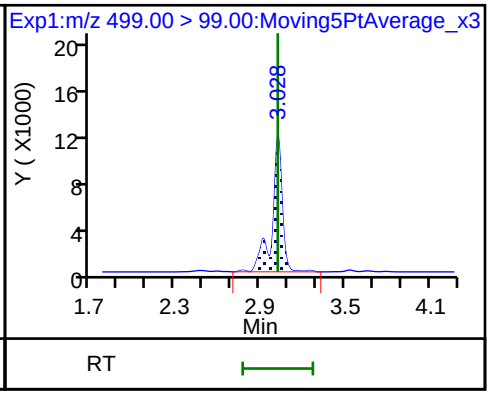
16 Perfluoroheptanesulfonic acid (ND)



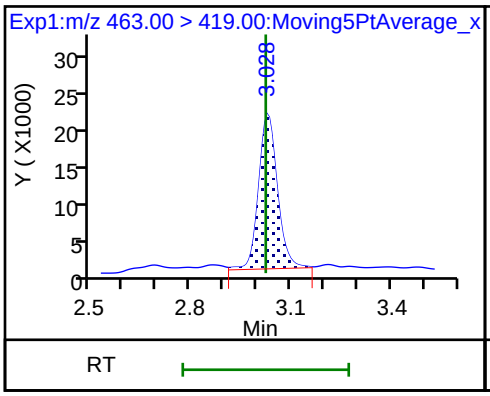
17 Perfluorooctane sulfonic acid



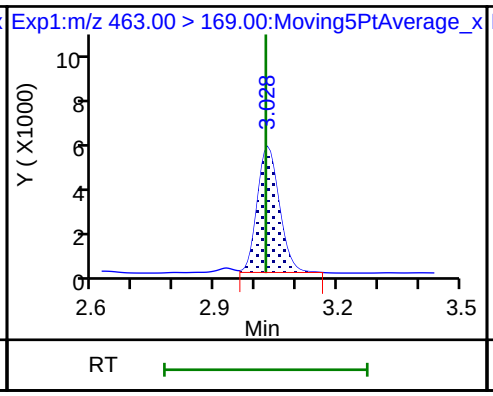
17 Perfluorooctane sulfonic acid



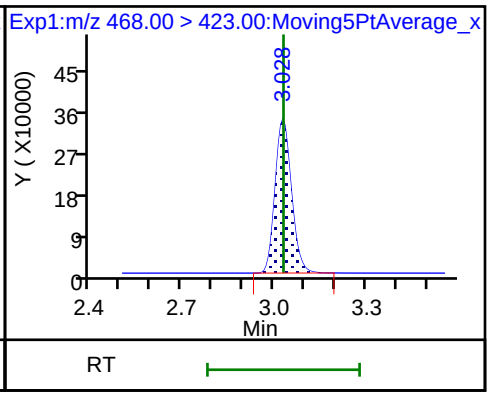
20 Perfluorononanoic acid



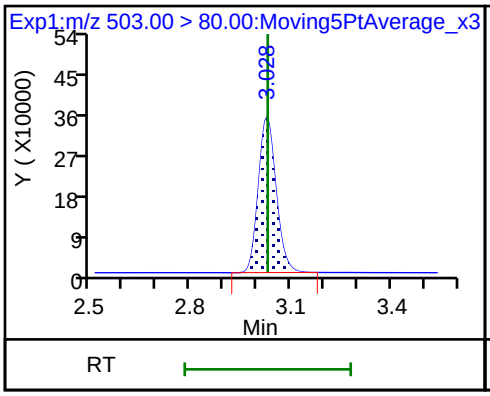
20 Perfluorononanoic acid



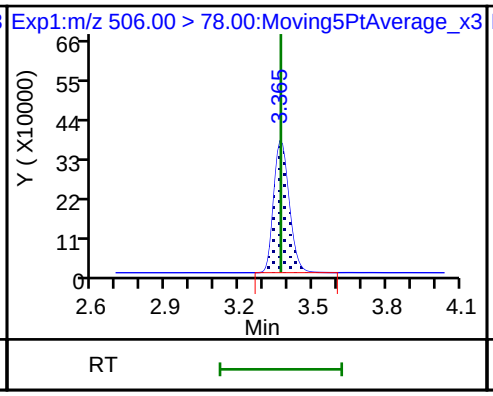
D 19 13C5 PFNA



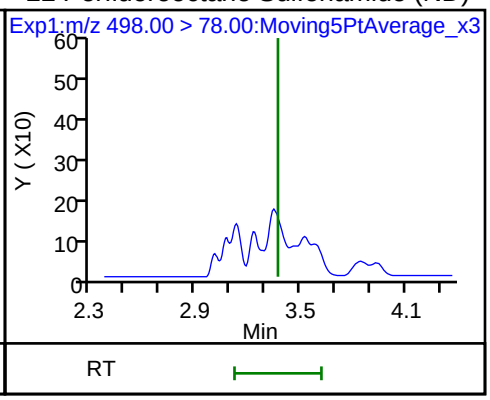
D 18 13C4 PFOS



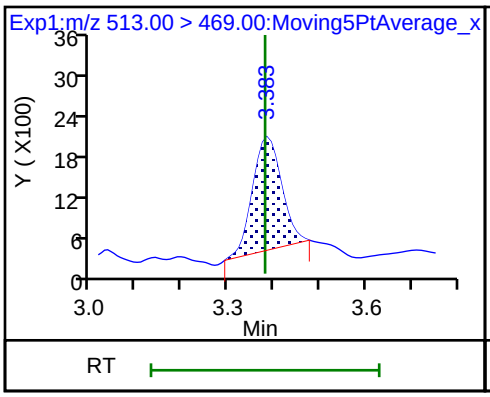
D 21 13C8 FOSA



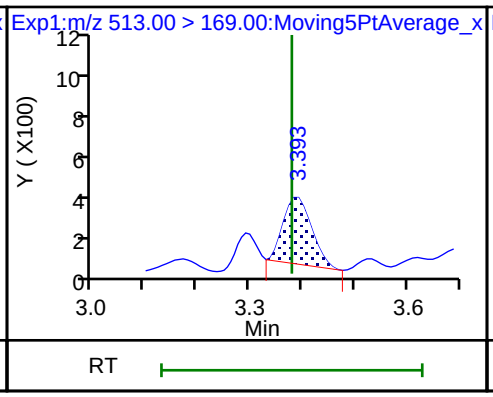
22 Perfluorooctane Sulfonamide (ND)



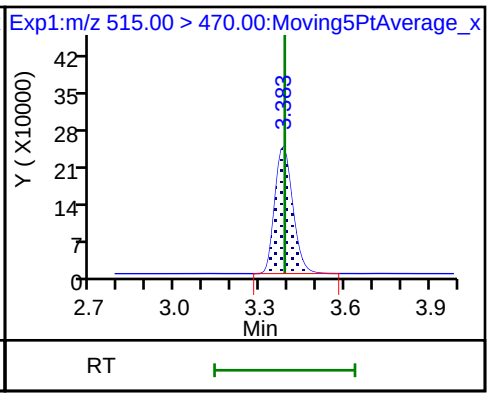
24 Perfluorodecanoic acid



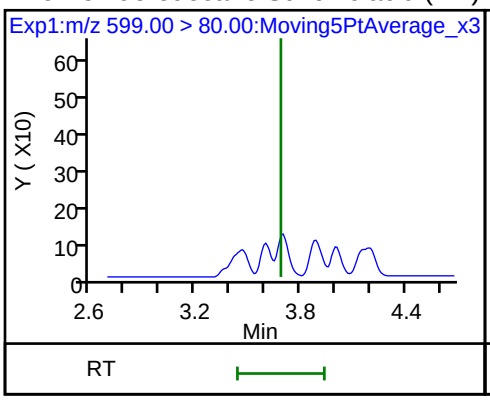
24 Perfluorodecanoic acid



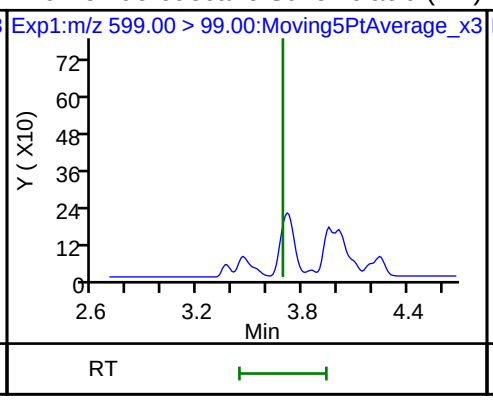
D 23 13C2 PFDA



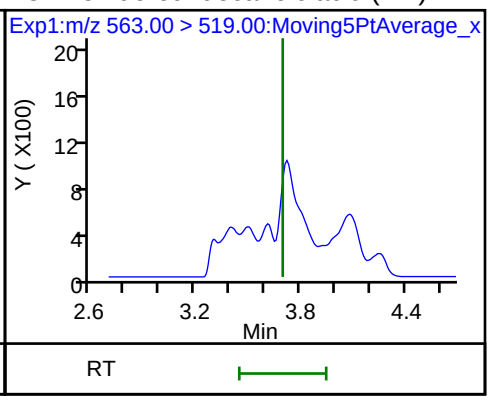
29 Perfluorodecane Sulfonic acid (ND)



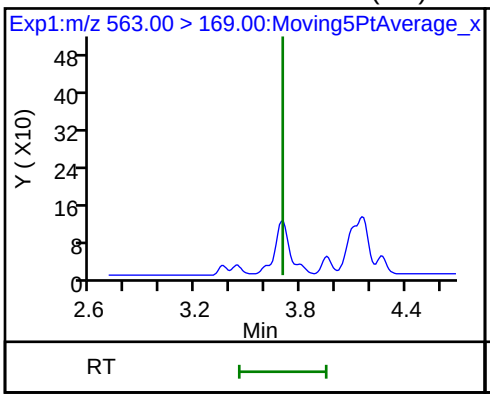
29 Perfluorodecane Sulfonic acid (ND)



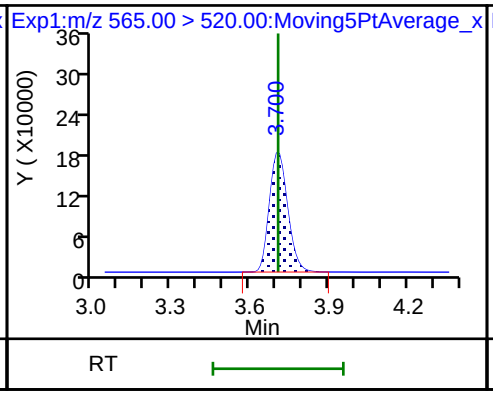
31 Perfluoroundecanoic acid (ND)



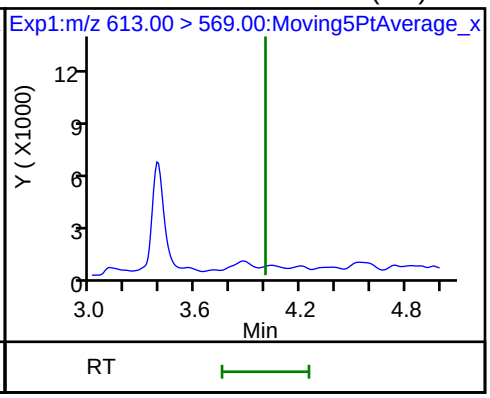
31 Perfluoroundecanoic acid (ND)



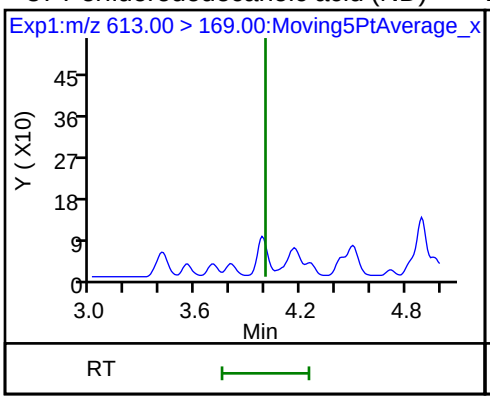
D 30 13C2 PFUnA



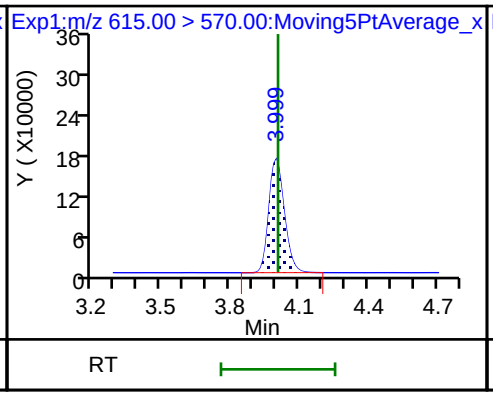
37 Perfluorododecanoic acid (ND)



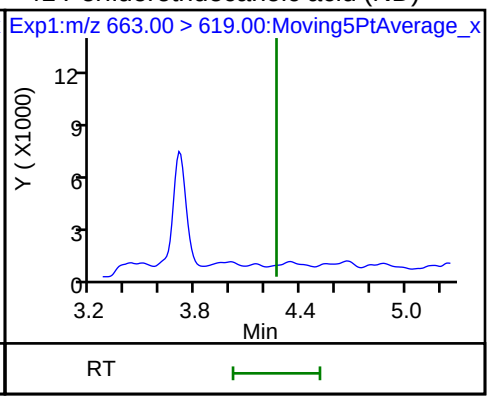
37 Perfluorododecanoic acid (ND)



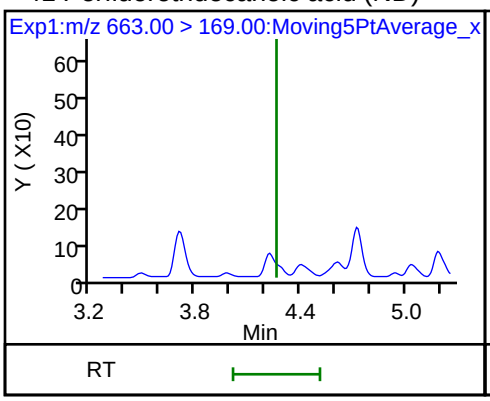
D 36 13C2 PFDoA



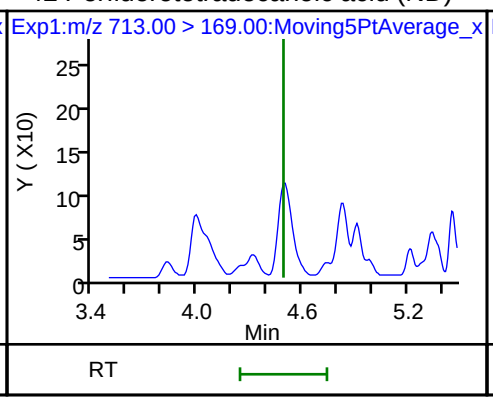
41 Perfluorotridecanoic acid (ND)



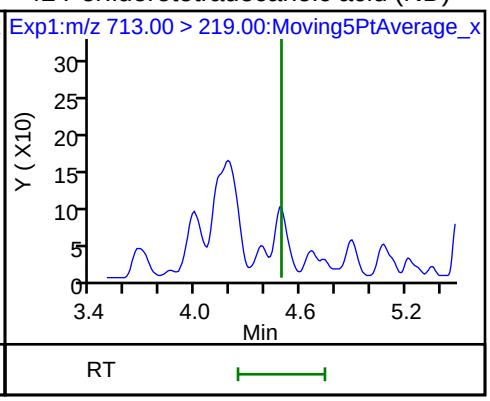
41 Perfluorotridecanoic acid (ND)



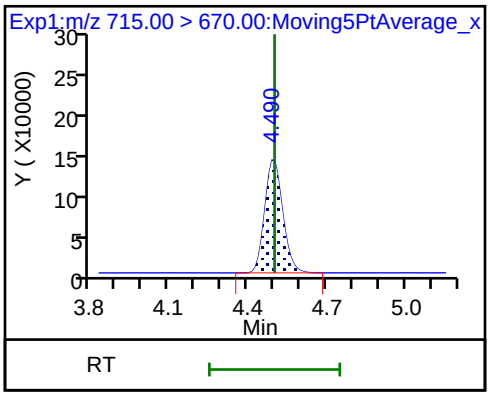
42 Perfluorotetradecanoic acid (ND)



42 Perfluorotetradecanoic acid (ND)



D 43 13C2-PFTeDA



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

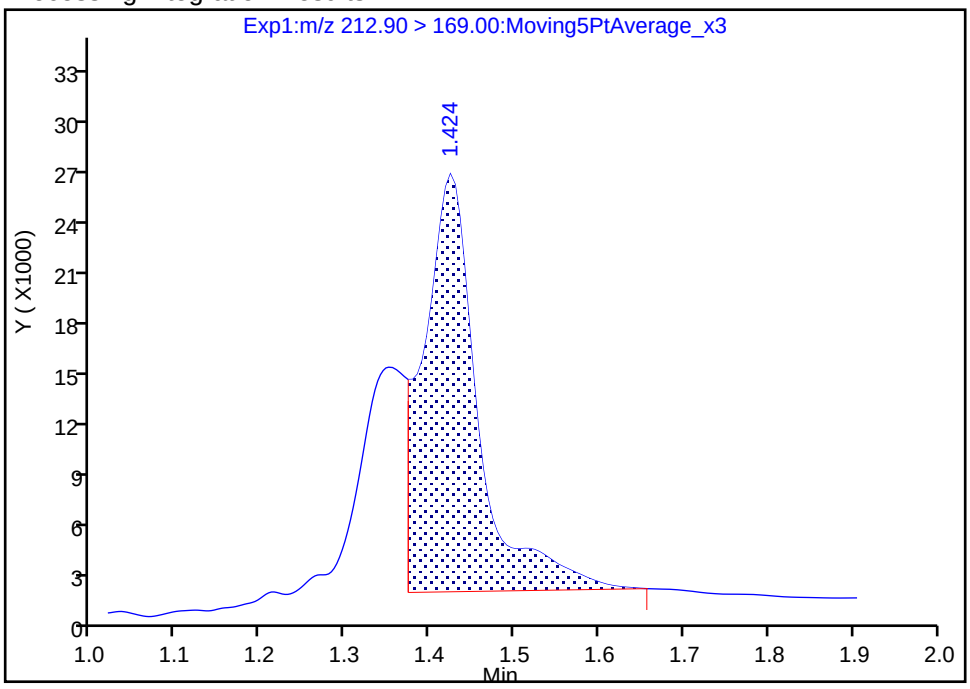
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

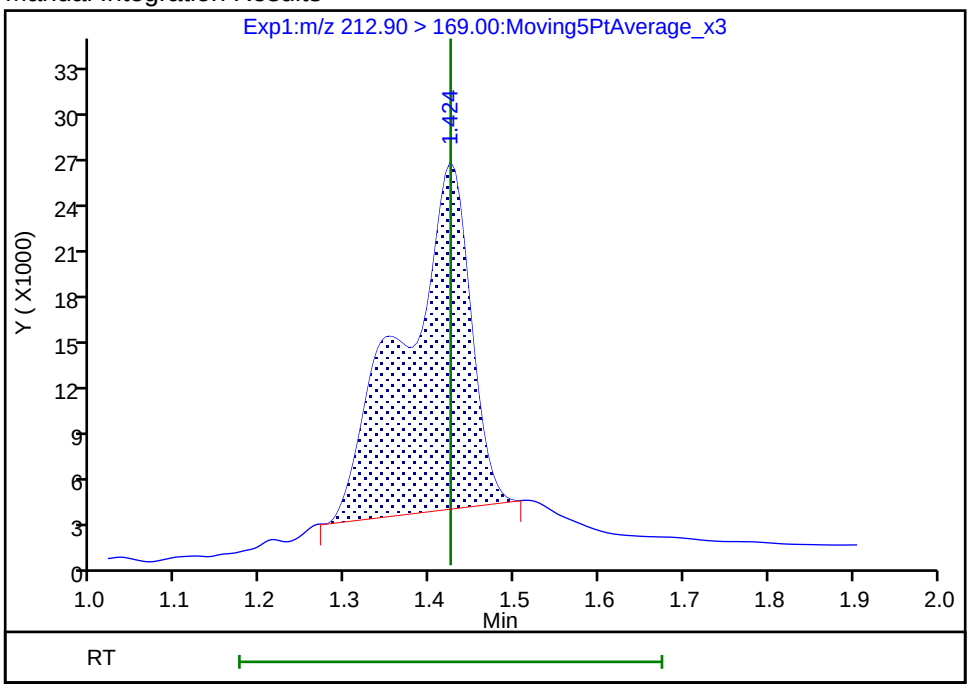
Processing Integration Results

RT: 1.42
Area: 108019
Amount: 0.139974
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 122856
Amount: 0.159200
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:07

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

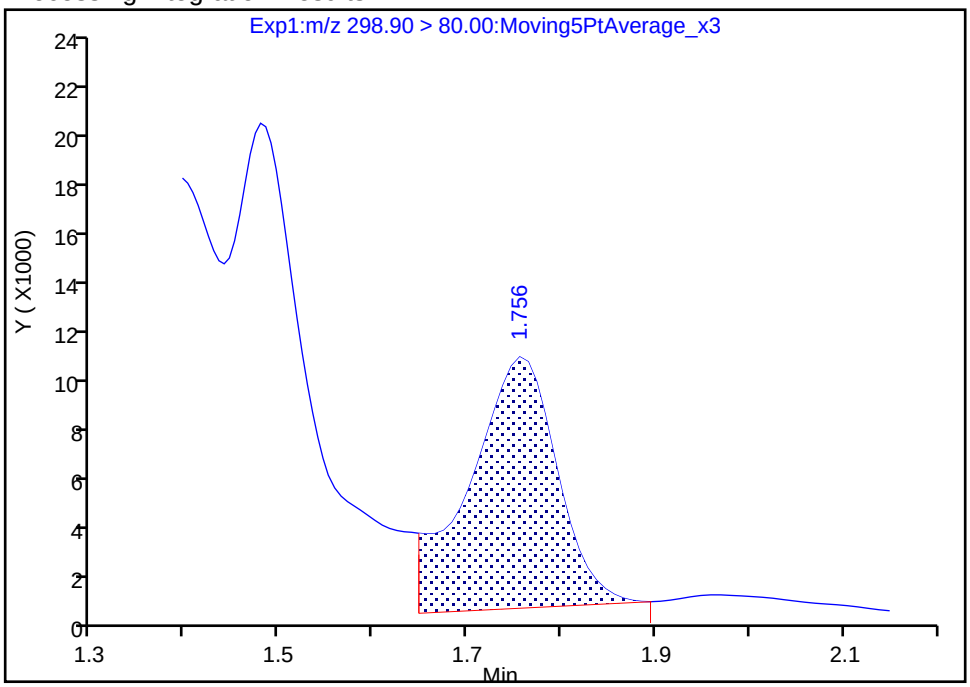
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

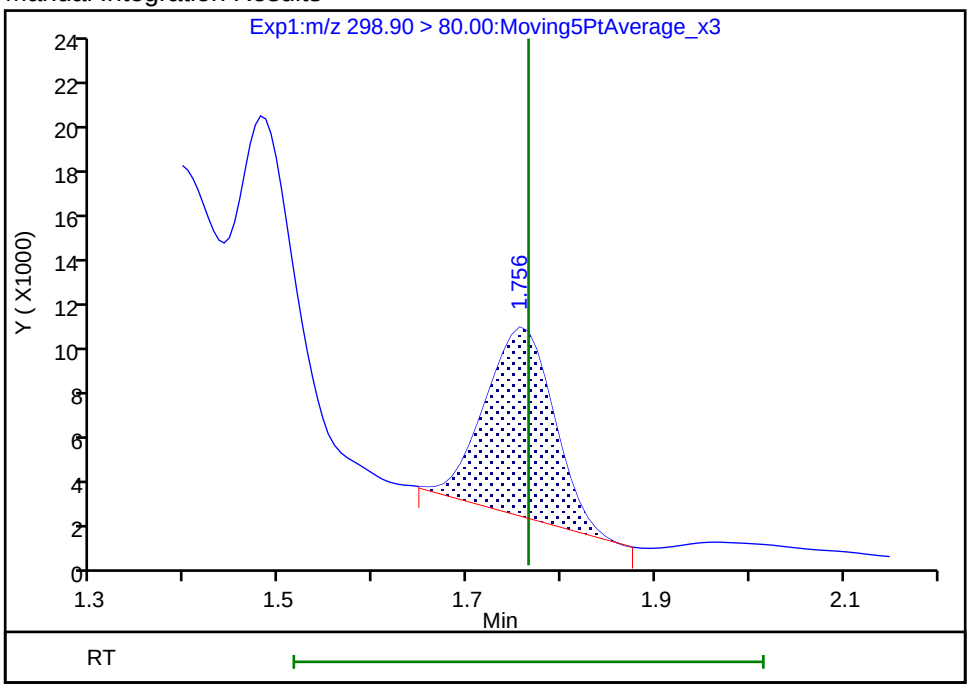
Processing Integration Results

RT: 1.76
Area: 63470
Amount: 0.059199
Amount Units: ng/ml



Manual Integration Results

RT: 1.76
Area: 41873
Amount: 0.039055
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:17

Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

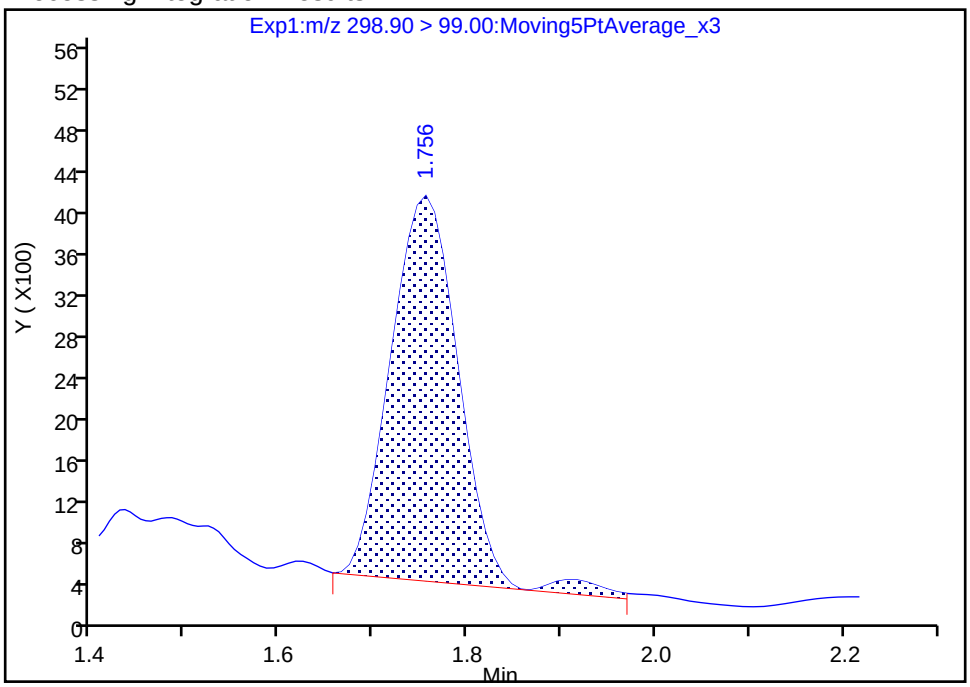
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

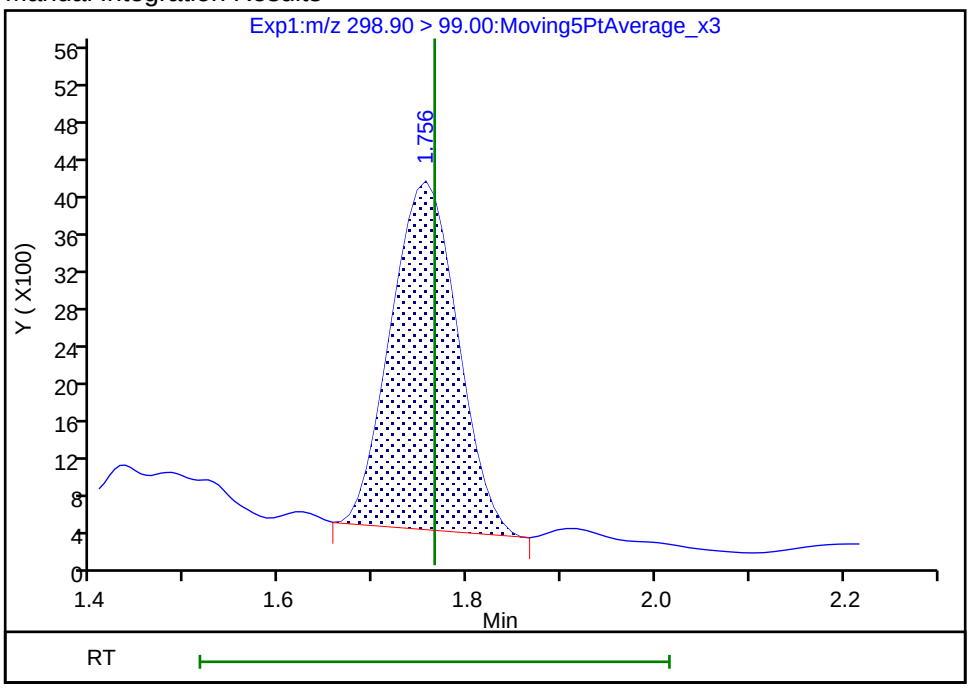
Processing Integration Results

RT: 1.76
Area: 18975
Amount: 0.059199
Amount Units: ng/ml



Manual Integration Results

RT: 1.76
Area: 18399
Amount: 0.039055
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:17:26
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

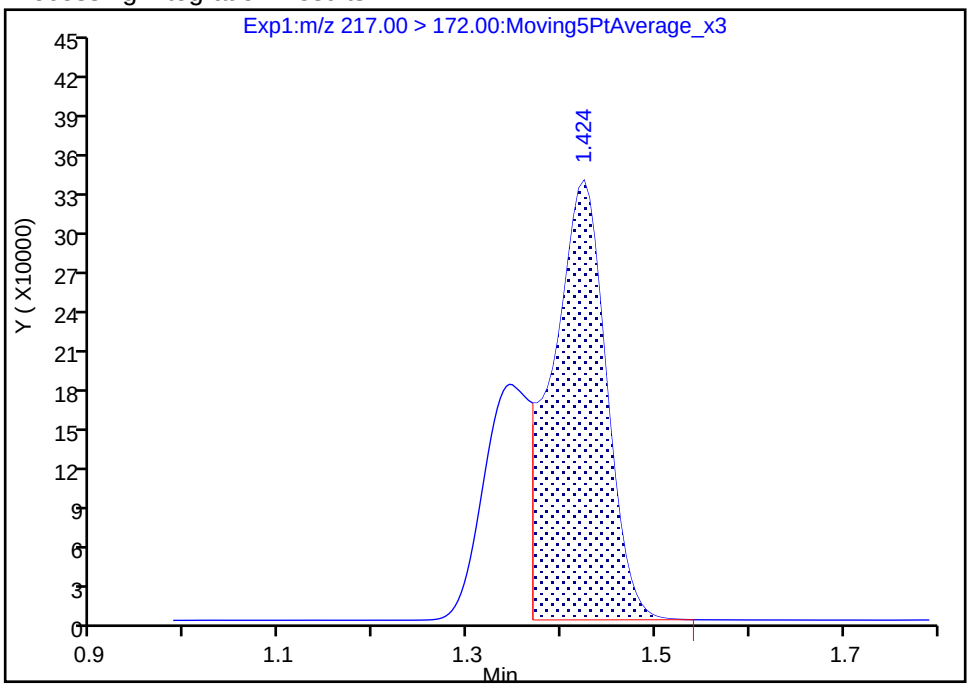
Data File:	\\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_044.d				
Injection Date:	13-Jul-2018 01:28:11	Instrument ID:	A8_N		
Lims ID:	460-159314-D-4-A	Lab Sample ID:	320-159314-4		
Client ID:	PDI-MW-161-1-I-06262018				
Operator ID:	SACINSTLCMS01	ALS Bottle#:	30	Worklist Smp#:	12
Injection Vol:	2.0 ul	Dil. Factor:	1.0000		
Method:	A8_N	Limit Group:	LC PFC ICAL		
Column:		Detector	EXP1		

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

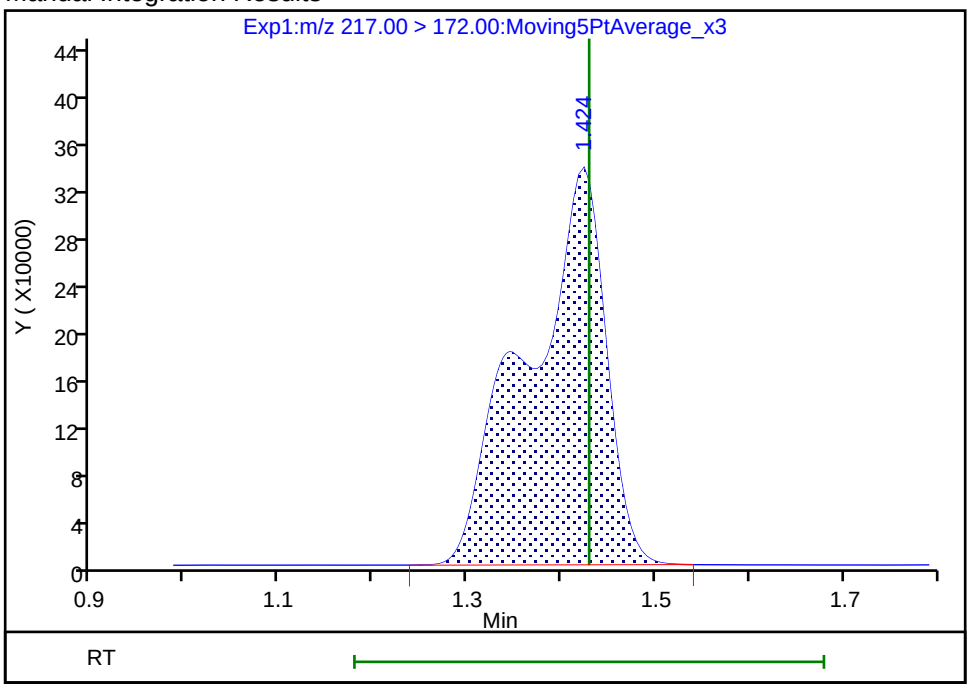
Processing Integration Results

RT: 1.42
Area: 1343197
Amount: 0.541702
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 1957504
Amount: 0.789447
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:16:48

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-232544/2	2018.07.05LLICALAA_002.d
Level 2	IC 320-232544/3	2018.07.05LLICALAA_003.d
Level 3	IC 320-232544/4	2018.07.05LLICALAA_004.d
Level 4	IC 320-232544/5	2018.07.05LLICALAA_005.d
Level 5	IC 320-232544/6	2018.07.05LLICALAA_006.d
Level 6	IC 320-232544/7	2018.07.05LLICALAA_007.d
Level 7	IC 320-232544/8	2018.07.05LLICALAA_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.1599 1.0003	1.0400 0.9742	0.9844	0.9784	1.0130	AveID		1.0214				6.4		35.0			
Perfluoropentanoic acid (PFPeA)	1.3494 1.1872	1.2423 1.1353	1.1293	1.1531	1.1396	AveID		1.1909				6.7		35.0			
Perfluorobutanesulfonic acid (PFBS)	75.947 76.688	75.791 69.580	76.843	76.844	78.936	AveID		75.804				3.9		50.0			
4:2 FTS	16.213 15.304	17.153 14.607	14.439	16.648	15.409	AveID		15.682				6.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.0840 1.0203	1.0591 0.9835	0.9513	1.0069	1.0226	AveID		1.0183				4.4		35.0			
Perfluoropentanesulfonic acid (PFPeS)	67.284 63.367	65.353 58.197	66.375	66.272	67.091	AveID		64.848				5.0		50.0			
HFPO-DA (GenX)	2.3057 2.6343	2.2554 2.0791	1.8716	2.5810	2.3656	AveID		2.2990				11.6		35.0			
Perfluoroheptanoic acid (PFHpA)	1.2104 1.1917	1.0279 1.0122	1.1900	1.0765	1.1995	AveID		1.1297				7.7		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3407 1.1365	1.2396 1.0973	1.1046	1.0785	1.0964	AveID		1.1562				8.4		35.0			
ADONA	3.6365 3.6048	3.7345 2.9552	3.7967	4.0875	4.1287	AveID		3.7063				10.5		50.0			
6:2 FTS	1.5354 1.5654	1.6674 1.5719	1.4840	1.5183	1.6234	AveID		1.5665				4.0		35.0			
Perfluorooctanoic acid (PFOA)	1.2192 1.2268	1.2620 1.1016	1.1156	1.2077	1.1675	AveID		1.1858				5.0		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.1926 1.3472	1.4478 1.3042	1.2807	1.3674	1.4360	AveID		1.3394				6.7		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.2121 1.1885	1.2202 1.1799	1.0639	1.1354	1.1768	AveID		1.1681				4.6		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	1.1213 1.1593	1.0185 1.0515	1.0090	1.0546	1.1292	AveID		1.0776				5.4		35.0			
F-53B Major	1.8371 1.9273	1.9871 1.7749	1.7938	1.9428	1.9705	AveID		1.8905				4.6		50.0			
Perfluorooctane Sulfonamide (FOSA)	1.0066 0.9778	1.0130 0.9552	0.9944	0.9898	1.0050	AveID		0.9917				2.0		35.0			
Perfluorononanesulfonic acid (PFNS)	0.7702 0.8185	0.8839 0.8030	0.7867	0.8165	0.8096	AveID		0.8126				4.4		50.0			
8:2 FTS	1.4013 1.3609	1.2823 1.3569	1.3100	1.2085	1.3282	AveID		1.3212				4.8		35.0			
Perfluorodecanoic acid (PFDA)	1.0056 1.0566	1.0483 1.0584	1.0509	1.0079	1.0686	AveID		1.0423				2.4		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	1.0315 1.0175	1.1546 0.9800	0.9971	0.9903	1.0331	AveID		1.0292				5.7		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.7023 0.7669	0.7487 0.7270	0.6844	0.7024	0.7049	AveID		0.7195				4.1		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.9826 0.9329	0.9062 0.8580	0.8600	0.8349	0.9369	AveID		0.9017				5.9		35.0			
Perfluoroundecanoic acid (PFUnA)	1.0834 0.7976	0.8362 0.8400	0.7717	0.8162	0.8057	AveID		0.8501				12.4		35.0			
F-53B Minor	2.8155 2.8075	3.0083 2.4752	2.8310	3.1108	3.1400	AveID		2.8841				7.9		50.0			
Perfluorododecanoic acid (PFDoA)	1.1617 1.1259	1.0302 1.0627	1.0854	1.0743	1.1736	AveID		1.1020				4.8		35.0			
Perfluorotridecanoic Acid (PFTriA)	1.3439 1.2254	1.2852 1.1348	1.2080	1.1963	1.1989	AveID		1.2275				5.5		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.3365 0.2566	0.2689 0.2676	0.2577	0.2506	0.2575	AveID		0.2708				11.0		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.8112 0.9369	1.3974 0.8947	1.0445	0.9647	1.0270	L2ID	0.0217	0.9499							0.9980		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	1.1905 1.1870	1.2284 1.0805	1.1317	1.1569	1.1735	AveID		1.1641				4.1		50.0			
13C4 PFBA	1.3432 1.4602	1.3377 1.4591	1.3336	1.3843	1.3715	Ave		1.3842				4.0		50.0			
13C5 PFPeA	0.9899 1.0617	0.9978 1.0424	1.0109	1.0339	1.0349	Ave		1.0245				2.5		50.0			
13C3-PFBS	0.0238 0.0262	0.0237 0.0254	0.0241	0.0241	0.0243	Ave		0.0245				3.8		50.0			
M2-4:2FTS	0.1576 0.1516	0.1585 0.1653	0.1586	0.1566	0.1546	Ave		0.1575				2.7		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFHxA	1.0920 1.1451	1.0620 1.1193	1.0765	1.0761	1.1051	Ave		1.0966				2.6		50.0			
13C3 HFPO-DA	0.0805 0.0882	0.0896 0.1033	0.1008	0.0788	0.0879	Ave		0.0899				10.3		50.0			
13C4-PFHpA	0.9648 0.9714	0.9738 1.0075	0.9299	1.0049	0.9620	Ave		0.9735				2.7		50.0			
18O2 PFHxS	1.2341 1.2017	1.2186 1.1483	1.1668	1.2212	1.1945	Ave		1.1979				2.6		50.0			
M2-6:2FTS	0.2274 0.2238	0.2173 0.2108	0.2151	0.2262	0.2095	Ave		0.2186				3.3		50.0			
13C4 PFOA	0.9520 0.9573	0.9525 0.9562	0.9559	0.9509	0.9525	Ave		0.9539				0.3		50.0			
13C4 PFOS	0.8583 0.8739	0.8228 0.8423	0.8886	0.8636	0.8361	Ave		0.8551				2.7		50.0			
13C5 PFNA	0.7879 0.8124	0.7968 0.8247	0.8395	0.8151	0.7999	Ave		0.8109				2.2		50.0			
13C8 FOSA	1.1690 1.2329	1.1769 1.1494	1.2007	1.2025	1.1777	Ave		1.1870				2.3		50.0			
M2-8:2FTS	0.2621 0.2334	0.2577 0.2218	0.2404	0.2505	0.2357	Ave		0.2431				5.9		50.0			
13C2 PFDA	0.7094 0.7121	0.7063 0.6634	0.7040	0.7208	0.6781	Ave		0.6992				2.9		50.0			
d3-NMeFOSAA	0.4168 0.4264	0.4023 0.4297	0.3985	0.4023	0.4078	Ave		0.4120				3.0		50.0			
d5-NEtFOSAA	0.4114 0.4009	0.4199 0.3876	0.4121	0.4353	0.3818	Ave		0.4070				4.6		50.0			
13C2 PFUnA	0.5948 0.5974	0.5971 0.5642	0.5918	0.5758	0.5904	Ave		0.5873				2.1		50.0			
13C2 PFDoA	0.6315 0.6216	0.6579 0.6276	0.6253	0.6378	0.6038	Ave		0.6294				2.6		50.0			
13C2-PFTeDA	0.8006 0.7947	0.7648 0.7332	0.7519	0.7678	0.7579	Ave		0.7673				3.1		50.0			
13C2-PFHxDA	1.4230 1.4676	1.4467 1.3521	1.3872	1.4716	1.3892	Ave		1.4196				3.2		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-232544/2	2018.07.05LLICALAA_002.d
Level 2	IC 320-232544/3	2018.07.05LLICALAA_003.d
Level 3	IC 320-232544/4	2018.07.05LLICALAA_004.d
Level 4	IC 320-232544/5	2018.07.05LLICALAA_005.d
Level 5	IC 320-232544/6	2018.07.05LLICALAA_006.d
Level 6	IC 320-232544/7	2018.07.05LLICALAA_007.d
Level 7	IC 320-232544/8	2018.07.05LLICALAA_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	67169 12195770	127400 24301343	597465	2411886	6019354	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	57590 10524768	113509 20231845	519574	2123200	5110087	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	68888 14809613	145614 26720886	743977	2913073	7339411	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	15538 3122682	34819 5926931	147699	666805	1513774	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	51033 9756155	103001 18820721	466101	1929591	4896489	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	64758 12984575	133231 23714616	681882	2665768	6619076	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	8000 1939946	18507 3672079	85883	362111	901097	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	50347 9666111	91664 17433793	503626	1926316	4999641	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	64911 10377680	125879 19602527	533777	2134265	5163686	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
ADONA		AveID	126753 24778537	265083 40084780	1446461	5921462	14088161	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	14268 2772705	31462 5371036	137712	579722	1396856	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	50090 9816387	110192 18026746	485826	2047028	4823268	0.0250 5.01	0.0501 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	42011 9359028	103856 17877757	493106	2001929	4951993	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	41621 8047965	85326 15767090	399282	1620324	3955854	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	38090 7864000	74314 14824538	385530	1530697	3913598	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
F-53B Major		AveID	63354 13107538	139553 23819619	676150	2784556	6652637	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctane Sulfonamide (FOSA)		AveID	50731 10065471	109173 18768991	543453	2119612	5128289	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	27359 5733386	63937 11100681	305446	1205401	2815426	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
8:2 FTS		AveID	15170 2540408	28993 4929744	137343	516484	1299370	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	30755 6282630	67800 12003817	336739	1293758	3139526	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	18536 3622994	42535 7199550	180847	709542	1825431	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	25052 5394731	54383 10090938	266826	1041333	2461548	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	17427 3122896	34849 5685758	161316	647181	1549739	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroundecanoic acid (PFUnA)		AveID	27781 3978902	45721 8101412	207861	836804	2060853	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
F-53B Minor		AveID	98137 19298262	213537 33573732	1078557	4506577	10714579	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	31624 5843687	62069 11402368	308907	1220093	3070255	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	36584 6359926	77431 12175469	343817	1358716	3136503	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	11614 1703041	18829 3354737	88194	342607	845500	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	111116 11482097	185133 20680874	659470	2527986	6181291	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	73036 14547117	162737 24976341	714501	3031740	7063441	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	5790999 6096226	6125232 6236338	6069593	6162858	5942375	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	4267857 4432781	4568616 4455207	4600846	4603081	4484079	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	95425 101582	101062 101003	101856	99704	97817	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	634689 591212	677914 659919	674185	650969	625570	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4708005 4780842	4862877 4784020	4899406	4790767	4788239	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PFOA	Ave	346971 368208	410277 441540	458876	350748	380912	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 232544

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/05/2018 08:51 Calibration End Date: 07/05/2018 09:38 Calibration ID: 39943

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4-PFHpA	13PF OA	Ave	4159575 4055763	4459007 4305905	4232132	4473611	4168061	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5033013 4746316	5278239 4642819	5023662	5143052	4895856	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PF OA	Ave	931220 887494	945420 856056	929925	956602	862284	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	4104235 3996804	4361265 4086844	4350463	4233363	4126992	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3537401 3487989	3601856 3441443	3866373	3675491	3463003	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	3396934 3391733	3648217 3524695	3821005	3628571	3465887	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	5039791 5147225	5388753 4912326	5465004	5353484	5102615	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2FTS	13PF OA	Ave	1082564 933375	1130537 908289	1048384	1068438	978302	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3058439 2973033	3233809 2835454	3204267	3209160	2937890	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1796921 1780322	1841966 1836553	1813682	1791176	1766929	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	1773515 1673669	1922718 1656649	1875737	1938000	1654181	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	2564177 2494182	2733892 2411181	2693673	2563234	2557898	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	2722317 2595125	3012454 2682397	2846137	2839357	2616078	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	3451656 3317852	3501728 3133566	3422283	3418156	3283601	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	6135017 6127474	6624124 5779000	6313503	6551380	6019047	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 05-Jul-2018 08:51:23 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:46 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:08:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.436	1.432	0.004	0.535	5790999	2.43		97.0	23614	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.436	1.434	0.002	1.000	67169	0.0284		114	24.4	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.721	1.716	0.005	0.642	4267857	2.42		96.6	39016	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.721	1.719	0.002	1.000	57590	0.0283		113	41.9	M
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.756	0.001	0.655	95425	2.26		97.1	748	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.766	1.760	0.006	1.005	68888	0.0221		100	396	
298.90 > 99.00	1.766	1.760	0.006	1.005	30581		2.25(1.25-3.74)	100	344	
D 60 M2-4:2FTS										
329.00 > 81.00	1.971	1.966	0.005	0.735	634689	2.34		100	7120	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.971	1.966	0.005	1.122	15538	0.0241		103	910	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	2.000	0.004	0.747	4708005	2.49		99.6	65107	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.004	2.002	0.002	1.000	51033	0.0266		106	90.7	M
313.00 > 119.00	2.004	2.002	0.002	1.000	5299		9.63(5.03-15.10)	106	83.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.025	0.002	1.154	64758	0.0243		104	920	
349.00 > 99.00	2.027	2.025	0.002	1.154	20151		3.21(1.36-4.07)	104	408	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.781	346971	2.24		89.6	5602	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.106	2.099	0.007	1.005	8000	0.0251		100	42.0	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.318	0.003	1.000	50347	0.0268		107	69.1	
363.00 > 169.00	2.321	2.318	0.003	1.000	19861		2.53(1.13-3.40)	107	202	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.318	0.003	0.865	4159575	2.48		99.1	30792	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.331	0.003	1.000	64911	0.0264		116	536	
399.00 > 99.00	2.334	2.331	0.003	1.000	21059		3.08(1.50-4.49)	116	183	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.870	5033013	2.44		103	35786	
65 Adona										
377.00 > 251.00	2.372	2.365	0.007	0.780	126753	0.0231		98.1	1593	
377.00 > 85.00	2.372	2.365	0.007	0.780	78260		1.62(0.84-2.53)	98.1	1744	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.652	2.645	0.007	1.000	14268	0.0232		98.0	142	
D 12 M2-6:2FTS										
429.00 > 81.00	2.652	2.645	0.007	0.989	931220	2.47		104	14182	
D 14 13C4 PFOA										
417.00 > 372.00	2.675	2.670	0.005	0.997	4104235	2.50		99.8	45143	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.675	2.671	0.004	1.000	50090	0.0257		103	18.1	M
413.00 > 169.00	2.682	2.671	0.011	1.003	32967		1.52(0.84-2.52)	103	172	M
* 62 13C2-PFOA										
415.00 > 370.00	2.682	2.671	0.011		4311203	2.50			37209	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.690	2.678	0.012	0.884	42011	0.0212		89.0	629	
449.00 > 99.00	2.682	2.678	0.004	0.882	12466		3.37(1.94-5.82)	89.0	316	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.042	3.034	0.008	1.000	41621	0.0241		104	489	
499.00 > 99.00	3.042	3.034	0.008	1.000	9995		4.16(2.31-6.93)	104	208	M
D 19 13C5 PFNA										
468.00 > 423.00	3.042	3.034	0.008	1.134	3396934	2.43		97.2	51934	
D 18 13C4 PFOS										
503.00 > 80.00	3.042	3.034	0.008	1.134	3537401	2.40		100	30670	
20 Perfluorononanoic acid										
463.00 > 419.00	3.049	3.036	0.013	1.002	38090	0.0260		104	62.6	
463.00 > 169.00	3.049	3.036	0.013	1.002	8921		4.27(1.90-5.69)	104	407	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.257	3.246	0.011	1.070	63354	0.0226		97.2	1484	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.251	5039791	2.46		98.5	42779	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	50731	0.0254		102	1053	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.385	3.379	0.006	1.113	27359	0.0227		94.8	418	
549.00 > 99.00	3.385	3.379	0.006	1.113	11830		2.31(1.33-3.97)	94.8	547	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.394	3.382	0.012	1.265	1082564	2.58		108	16251	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.394	3.383	0.011	1.000	15170	0.0254		106	474	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.403	3.393	0.010	1.000	30755	0.0241		96.5	105	
513.00 > 169.00	3.403	3.393	0.010	1.000	5952		5.17(2.36-7.09)	96.5	266	
D 23 13C2 PFDA										
515.00 > 470.00	3.403	3.393	0.010	1.269	3058439	2.54		101	46004	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.553	3.543	0.010	1.324	1796921	2.53		101	22850	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.562	3.551	0.011	1.003	18536	0.0251		100	162	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.715	3.702	0.013	1.221	25052	0.0235		97.6	492	
599.00 > 99.00	3.715	3.702	0.013	1.221	9802		2.56(1.39-4.16)	97.6	337	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.726	3.713	0.013	1.389	1773515	2.53		101	9054	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.726	3.721	0.005	0.997	27781	0.0319		127	87.1	
563.00 > 169.00	3.736	3.721	0.015	1.000	5787		4.80(2.12-6.36)	127	238	
33 N-ethyl perfluorooctane sulfonamid										M
584.00 > 419.00	3.736	3.721	0.015	1.003	17427	0.0272		109	369	M
D 30 13C2 PFUnA										
565.00 > 520.00	3.736	3.721	0.015	1.393	2564177	2.53		101	29168	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.892	3.879	0.013	1.279	98137	0.0230		97.6	1614	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.025	4.016	0.009	1.000	31624	0.0264		105	35.1	M
613.00 > 169.00	4.035	4.016	0.019	1.003	7882		4.01(2.13-6.40)	105	153	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.025	4.016	0.009	1.501	2722317	2.51		100	12948	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.296	4.284	0.012	1.067	36584	0.0274		109	38.0	
663.00 > 169.00	4.296	4.284	0.012	1.067	12165		3.01(1.25-3.76)	109	229	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.539	4.524	0.015	1.692	3451656	2.61		104	14975	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.539	4.524	0.015	1.000	11614	0.0311		124	203	
713.00 > 219.00	4.529	4.524	0.005	0.998	7249		1.60(0.71-2.13)	124	190	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.954	4.940	0.014	1.847	6135017	2.51		100	12974	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.954	4.941	0.013	1.000	111116	0.0248		99.2	48.8	
813.00 > 169.00	4.954	4.941	0.013	1.000	18876		5.89(2.86-8.58)	99.2	178	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.319	5.302	0.017	1.074	73036	0.0256		102	25.0	
913.00 > 169.00	5.319	5.302	0.017	1.074	9580		7.62(3.83-11.48)	102	138	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00006 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:47 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d

Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N

Lims ID: IC L1 Full

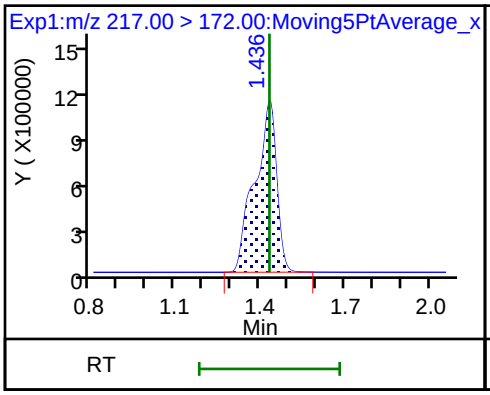
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

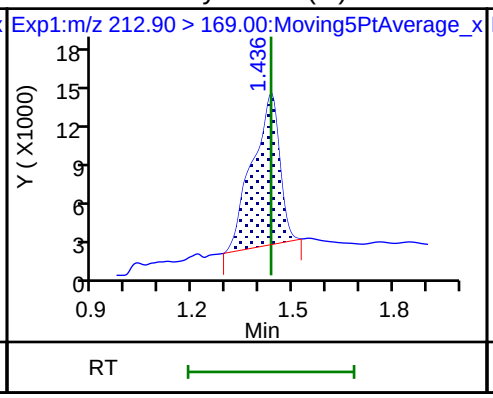
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

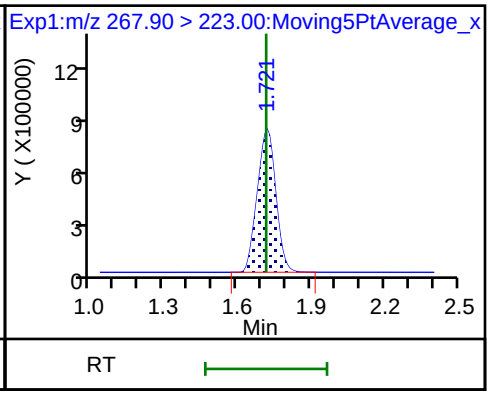
D 1 13C4 PFBA



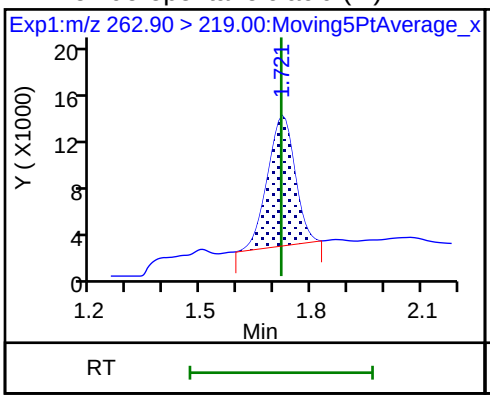
2 Perfluorobutyric acid (M)



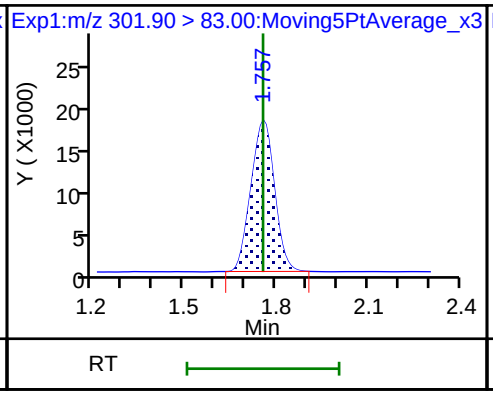
D 3 13C5-PFPeA



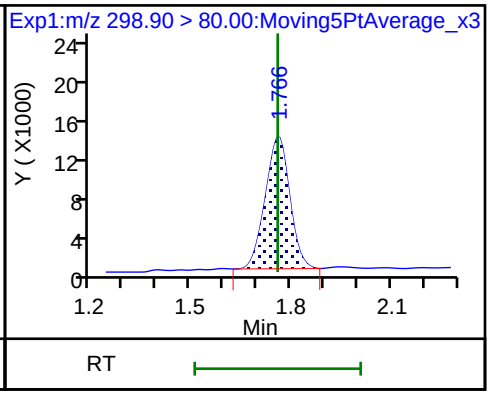
4 Perfluoropentanoic acid (M)



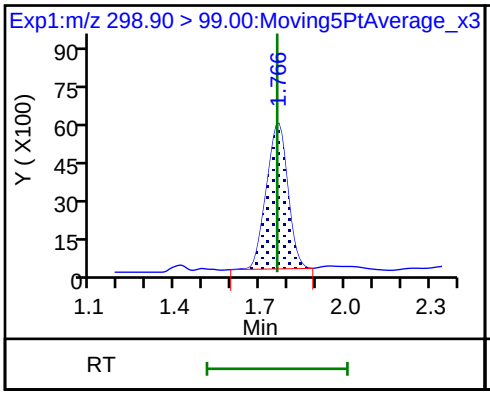
D 47 13C3-PFBS



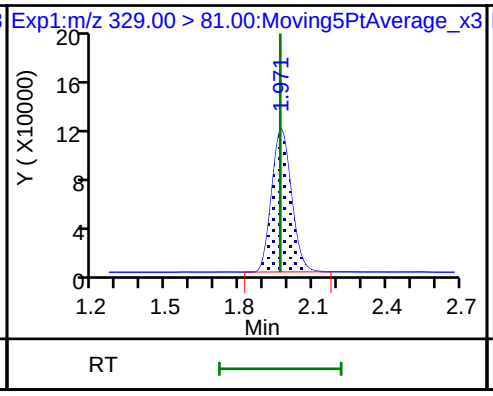
5 Perfluorobutanesulfonic acid



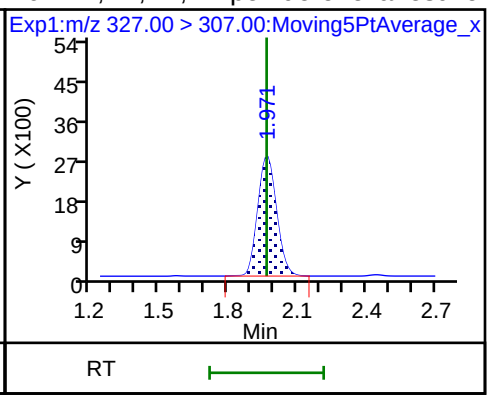
5 Perfluorobutanesulfonic acid



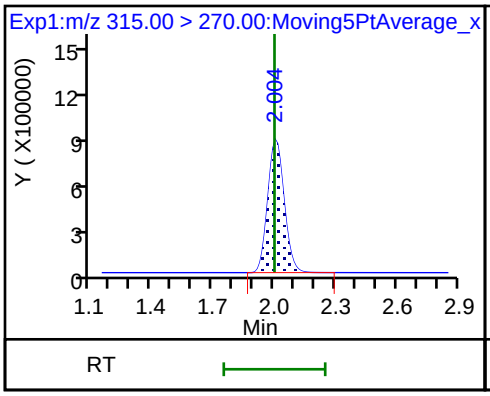
D 60 M2-4:2FTS



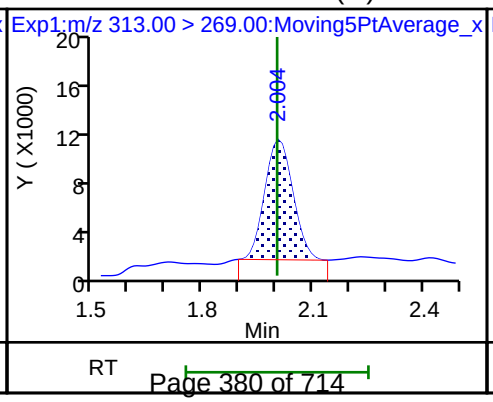
61 1H,1H,2H,2H-perfluorohexanesulfoni



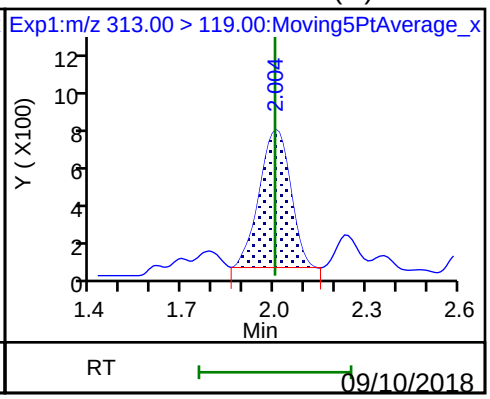
D 7 13C2 PFHxA



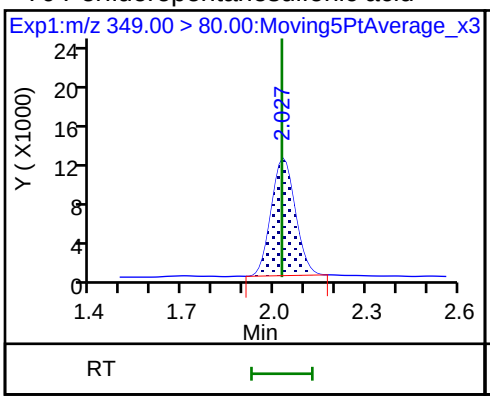
6 Perfluorohexanoic acid (M)



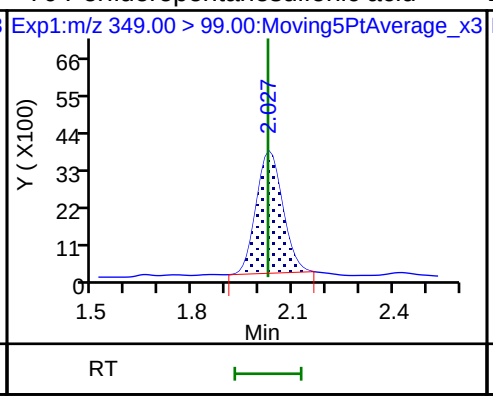
6 Perfluorohexanoic acid (M)



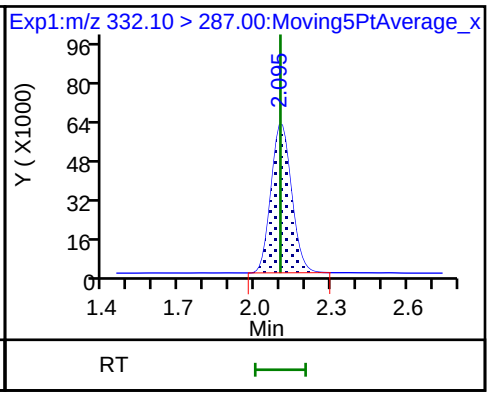
70 Perfluoropentanesulfonic acid



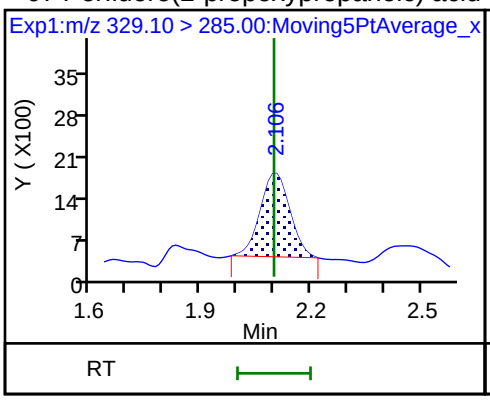
70 Perfluoropentanesulfonic acid



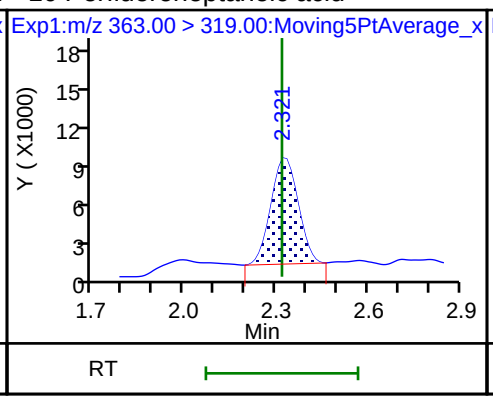
D 64 13C3 HFPO-DA



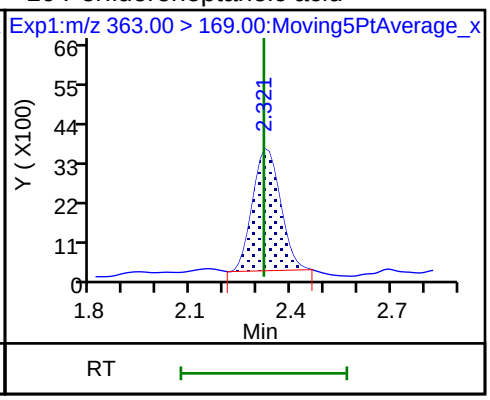
67 Perfluoro(2-propoxypropanoic) acid



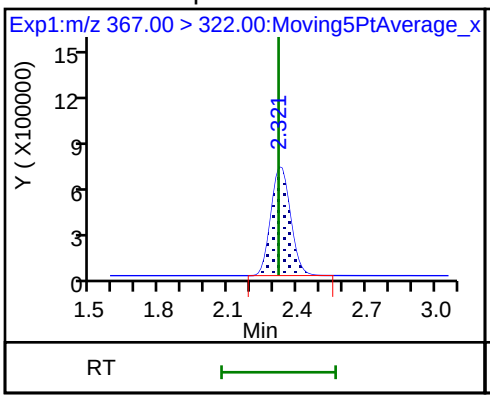
10 Perfluoroheptanoic acid



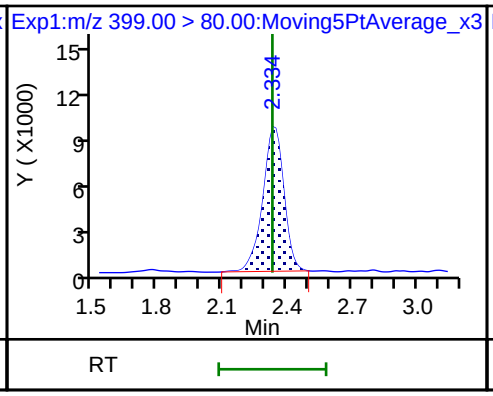
10 Perfluoroheptanoic acid



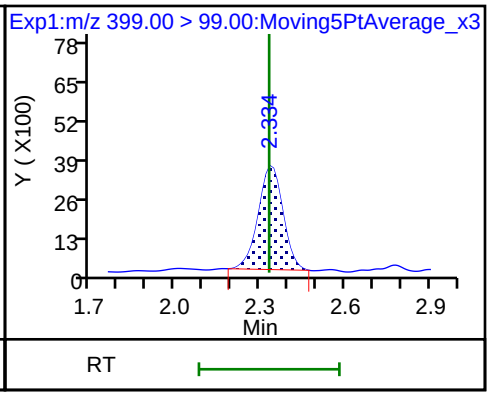
D 9 13C4-PFHpA



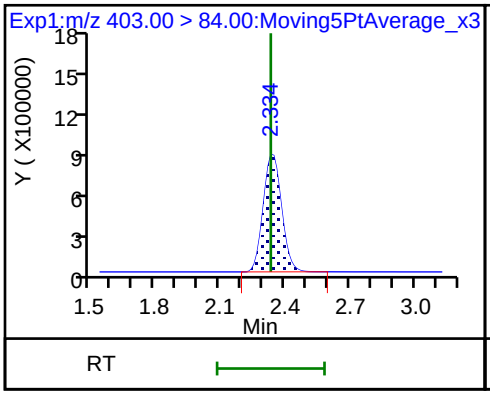
8 Perfluorohexanesulfonic acid



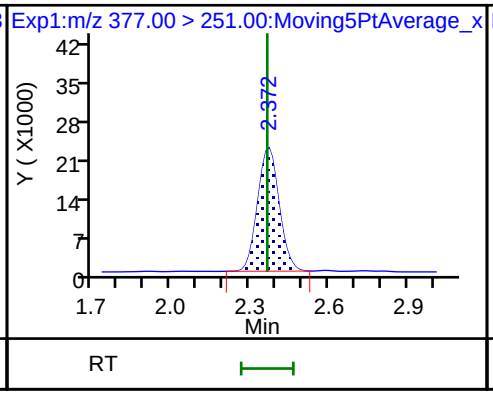
8 Perfluorohexanesulfonic acid



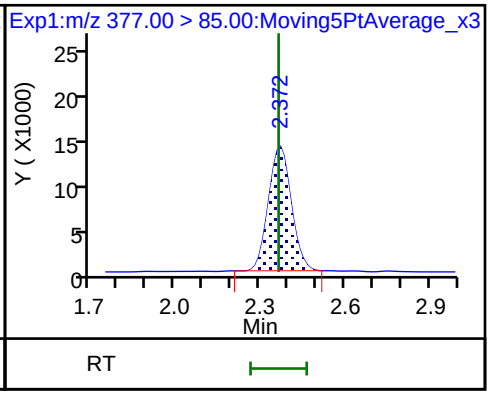
D 11 18O2 PFHxS



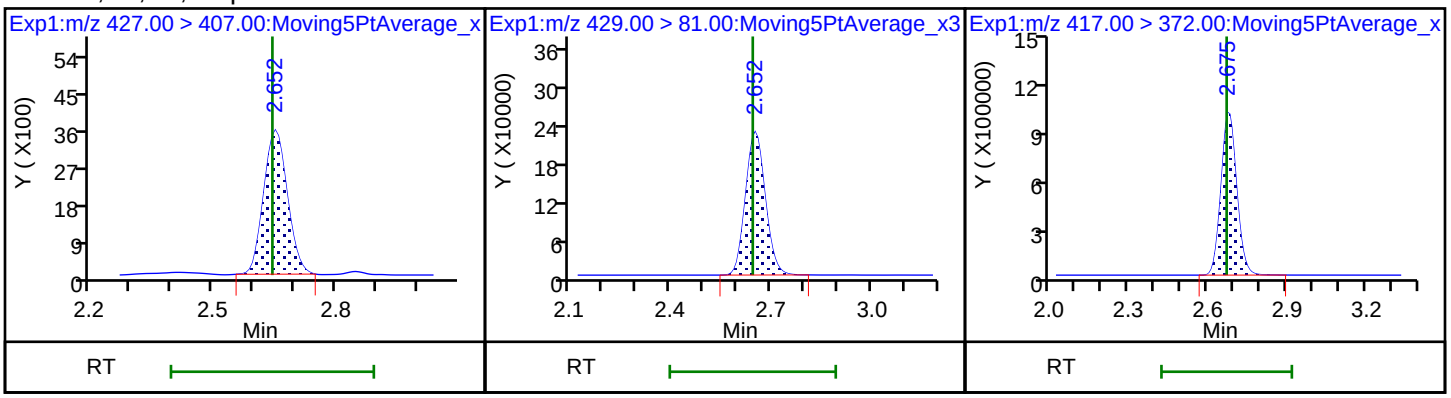
65 Adona



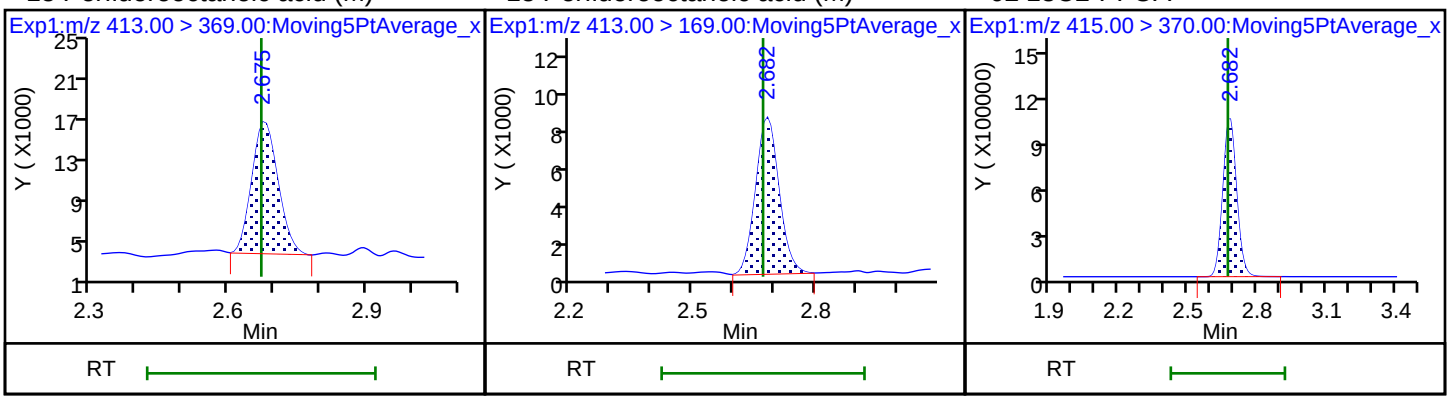
65 Adona



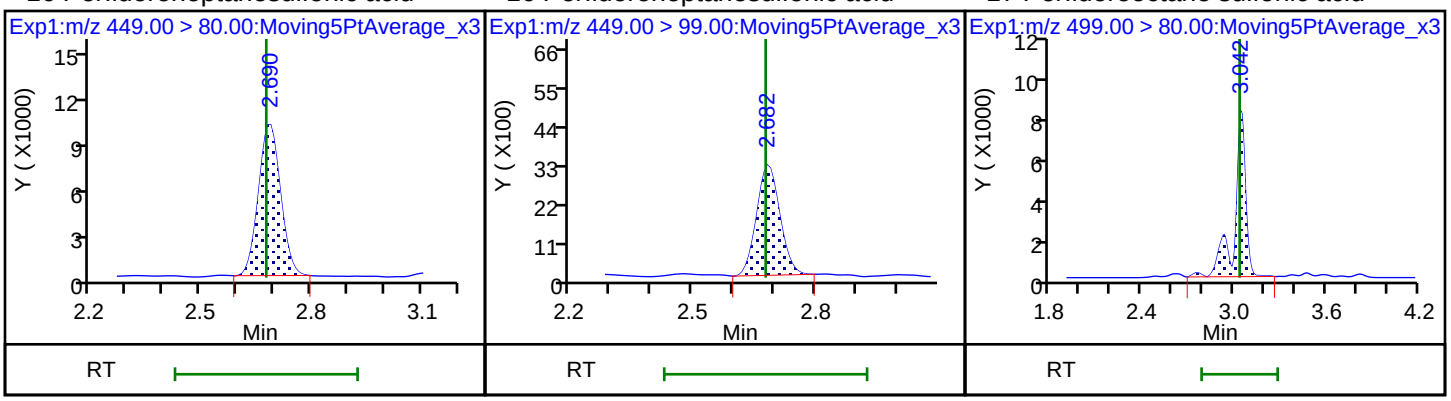
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



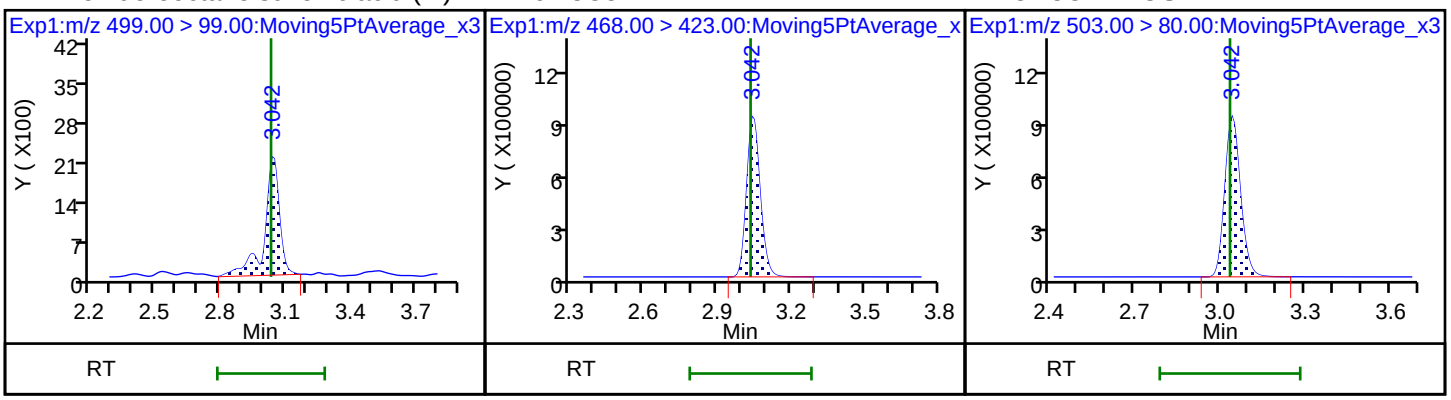
15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) * 62 13C2-PFOA



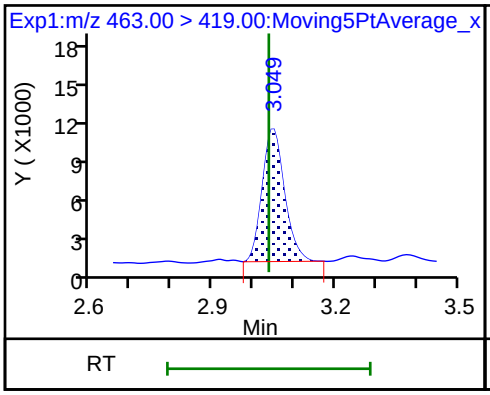
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



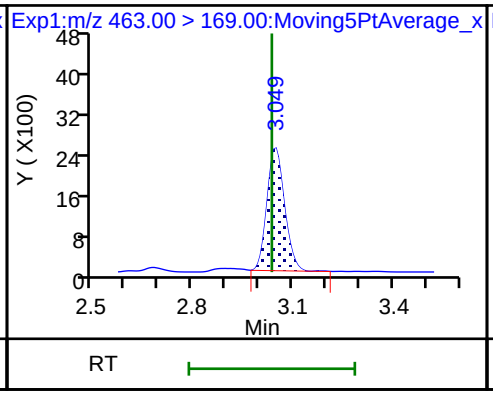
17 Perfluorooctane sulfonic acid (M) D 19 13C5 PFNA D 18 13C4 PFOS



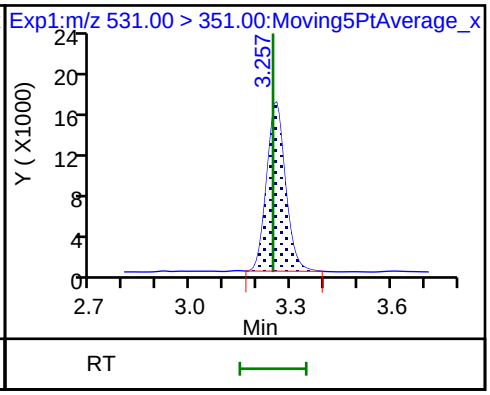
20 Perfluorononanoic acid



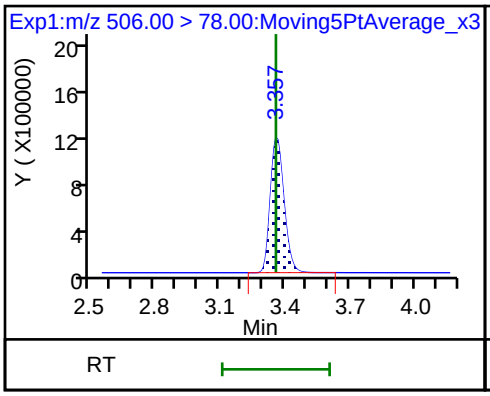
20 Perfluorononanoic acid



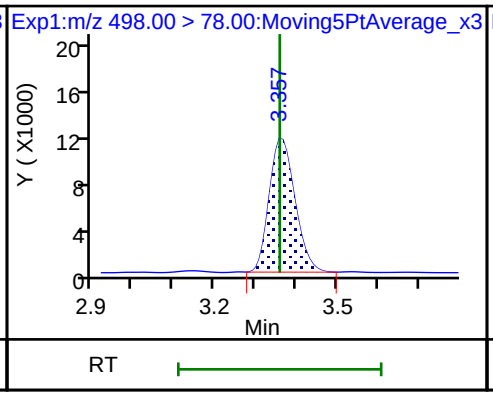
69 9-Chlorohexadecafluoro-3-oxanonane



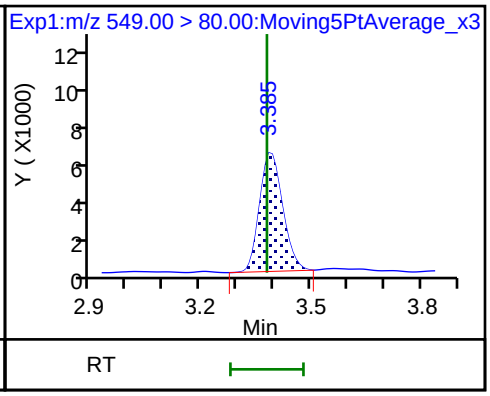
D 21 13C8 FOSA



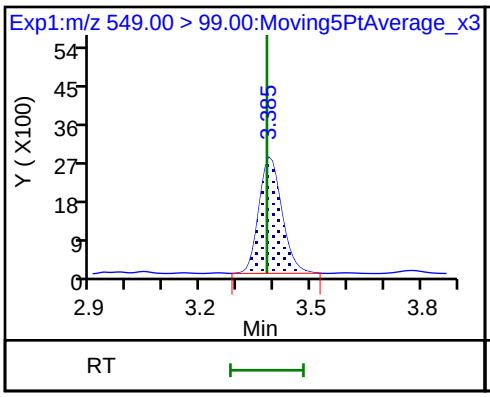
22 Perfluorooctane Sulfonamide



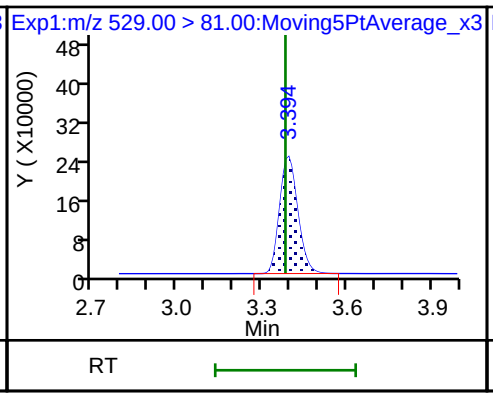
68 Perfluorononanesulfonic acid



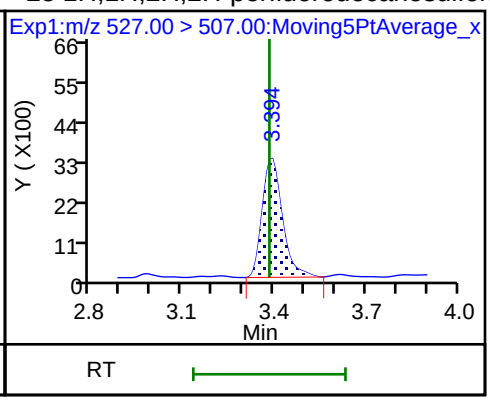
68 Perfluorononanesulfonic acid



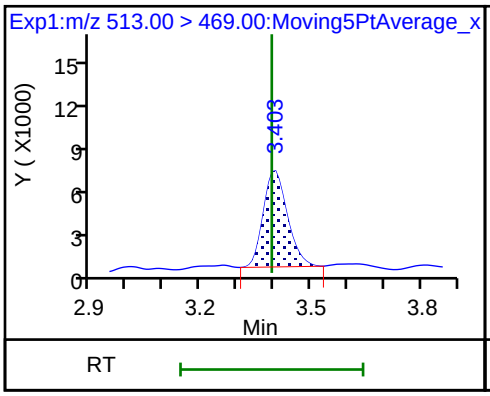
D 26 M2-8:2FTS



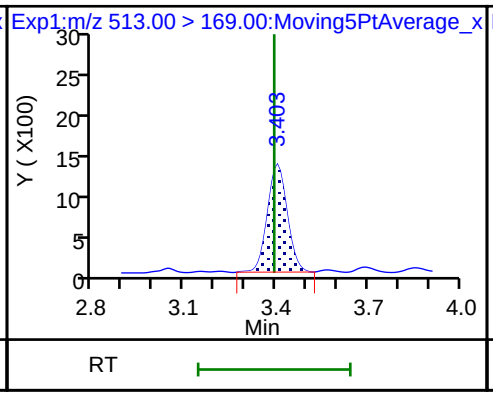
25 1H,1H,2H,2H-perfluorodecanesulfoni



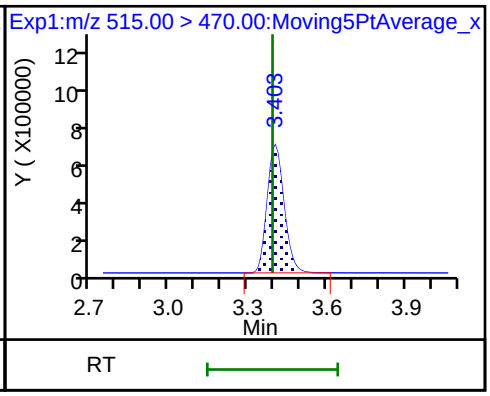
24 Perfluorodecanoic acid



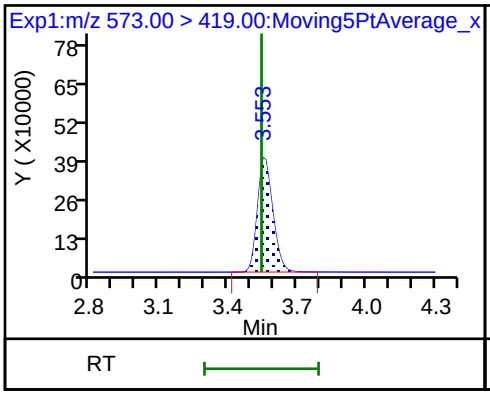
24 Perfluorodecanoic acid



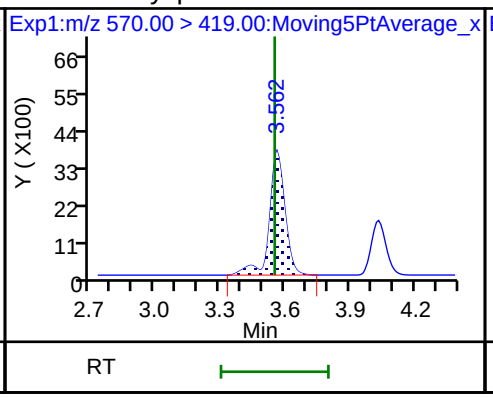
D 23 13C2 PFDA



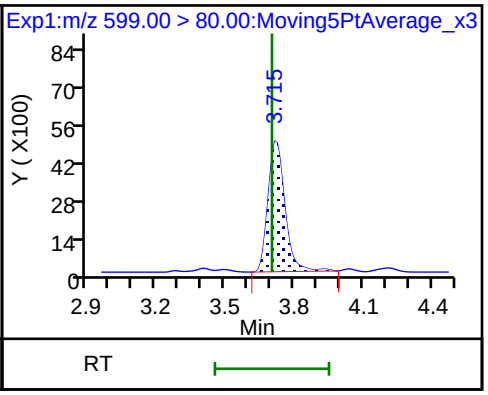
D 27 d3-NMeFOSAA



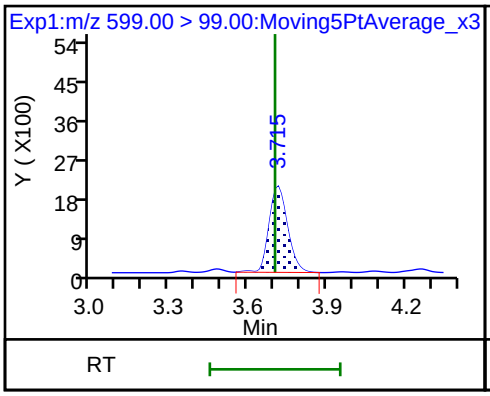
28 N-methyl perfluorooctane sulfonami



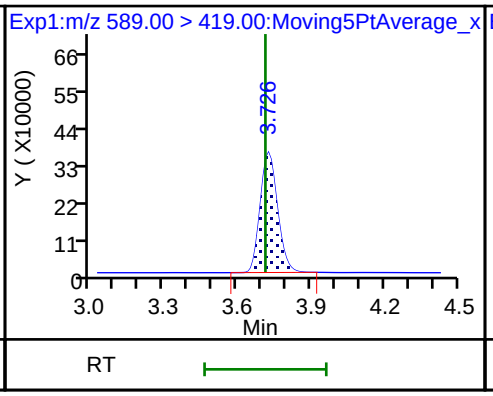
29 Perfluorodecane Sulfonic acid



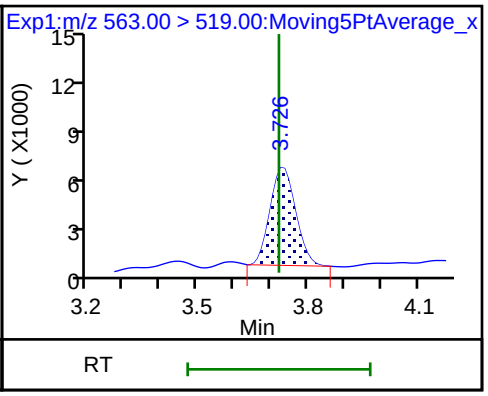
29 Perfluorodecane Sulfonic acid



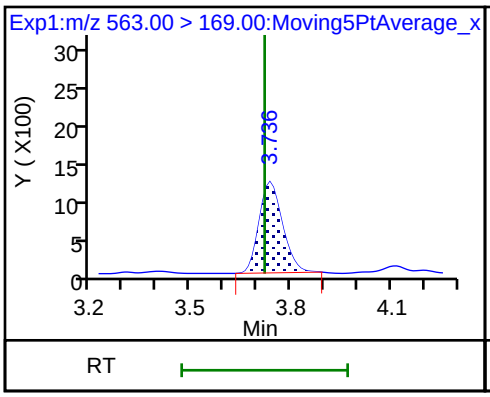
D 32 d5-NEtFOSAA



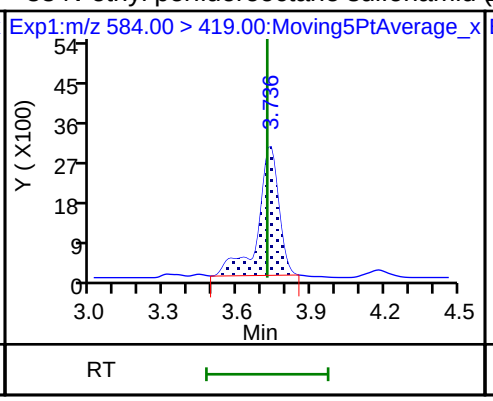
31 Perfluoroundecanoic acid



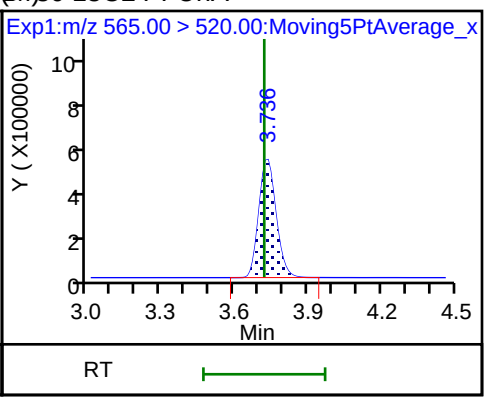
31 Perfluoroundecanoic acid



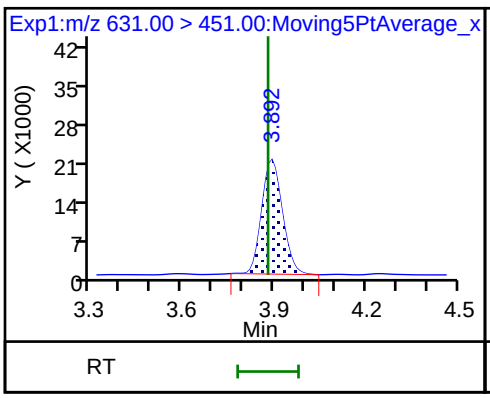
33 N-ethyl perfluorooctane sulfonamid



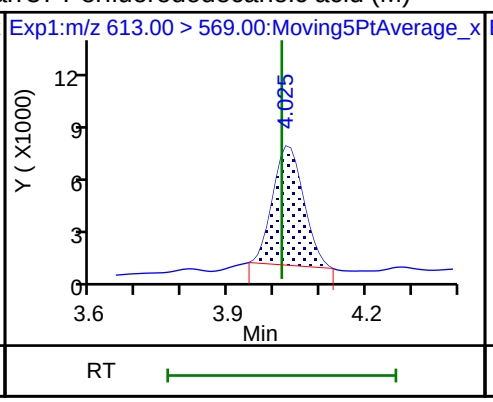
(M) 30 13C2 PFUnA



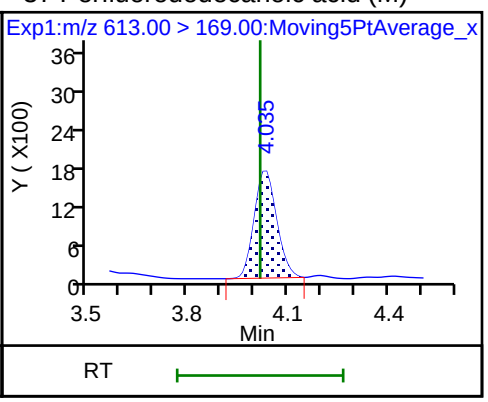
66 11-Chloroeicosafluoro-3-oxaundecan



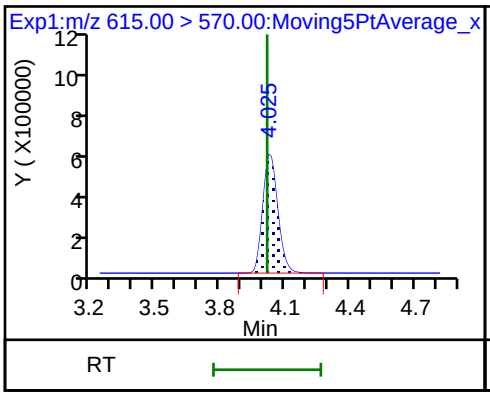
37 Perfluorododecanoic acid (M)



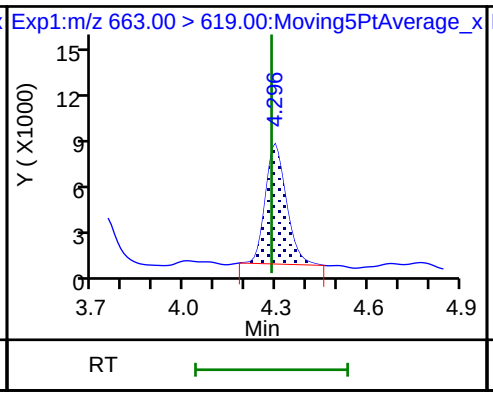
37 Perfluorododecanoic acid (M)



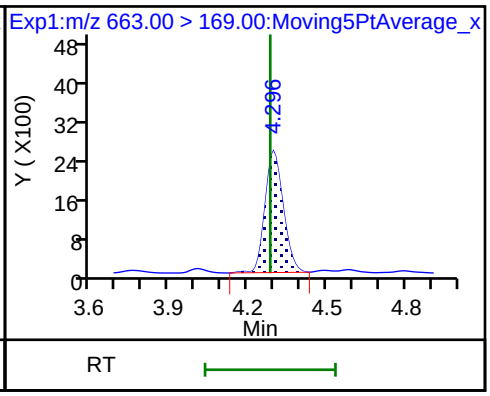
D 36 13C2 PFDoA



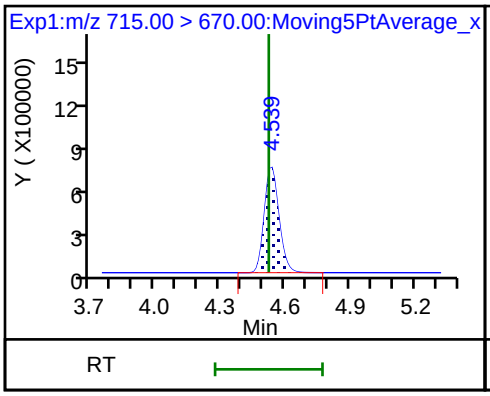
41 Perfluorotridecanoic acid



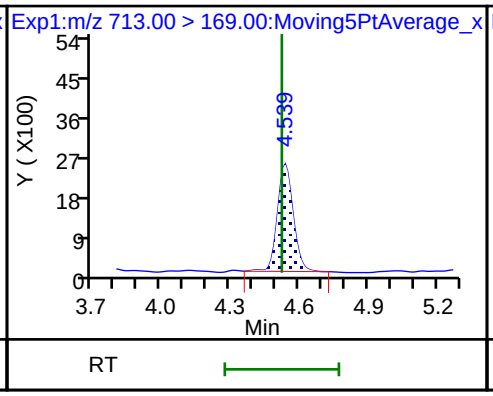
41 Perfluorotridecanoic acid



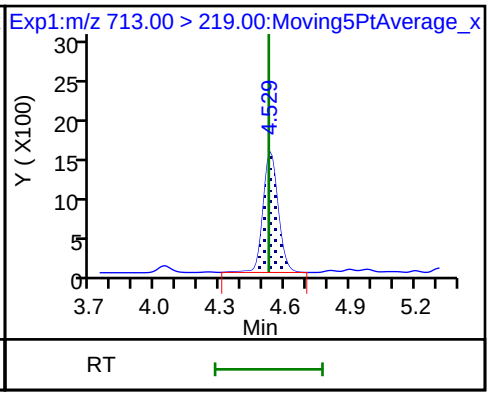
D 43 13C2-PFTeDA



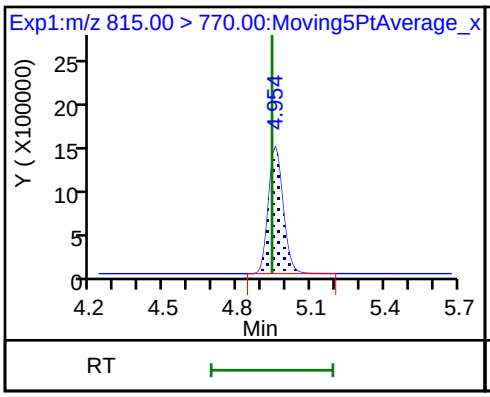
42 Perfluorotetradecanoic acid



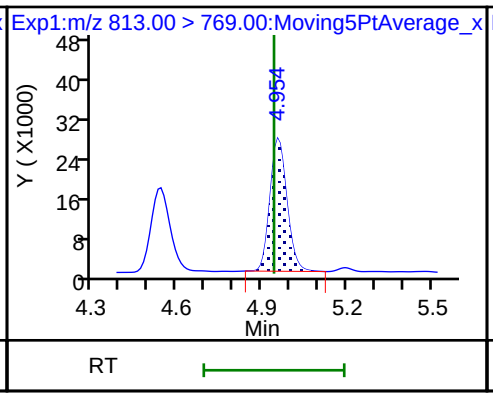
42 Perfluorotetradecanoic acid



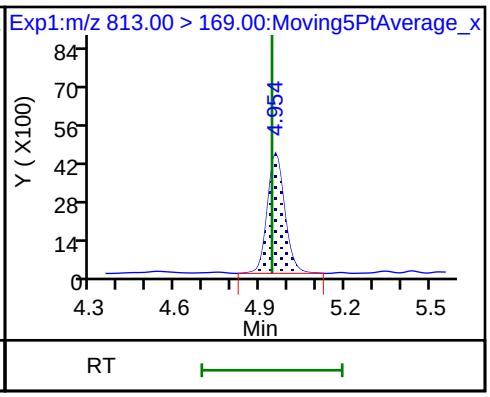
D 44 13C2-PFHxDA



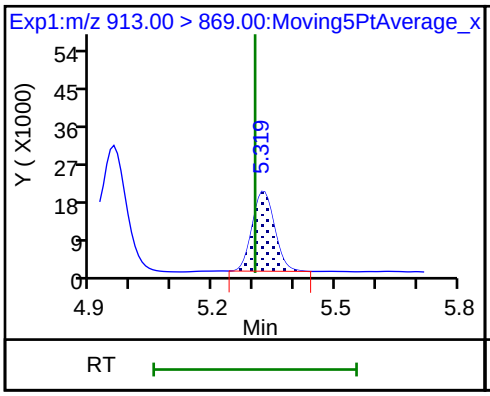
45 Perfluorohexadecanoic acid



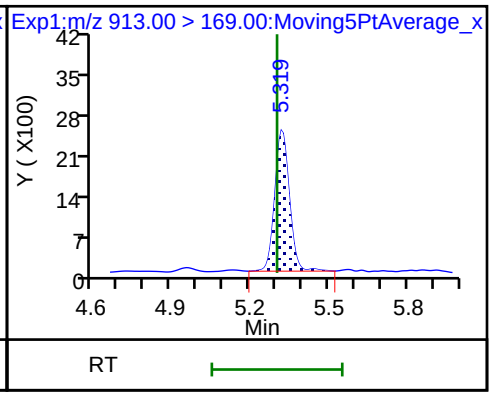
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

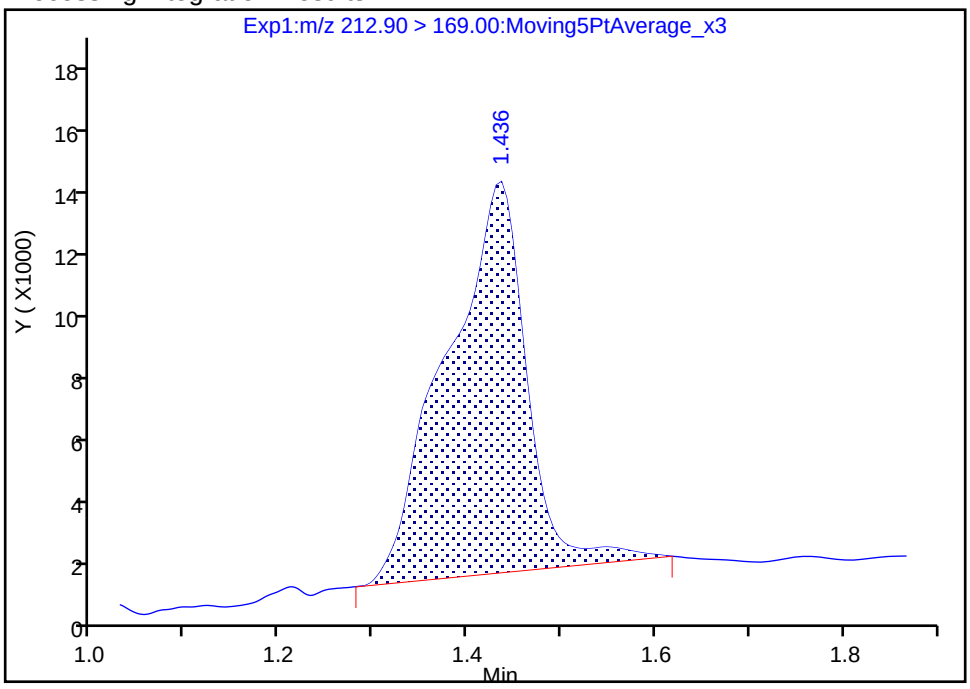
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

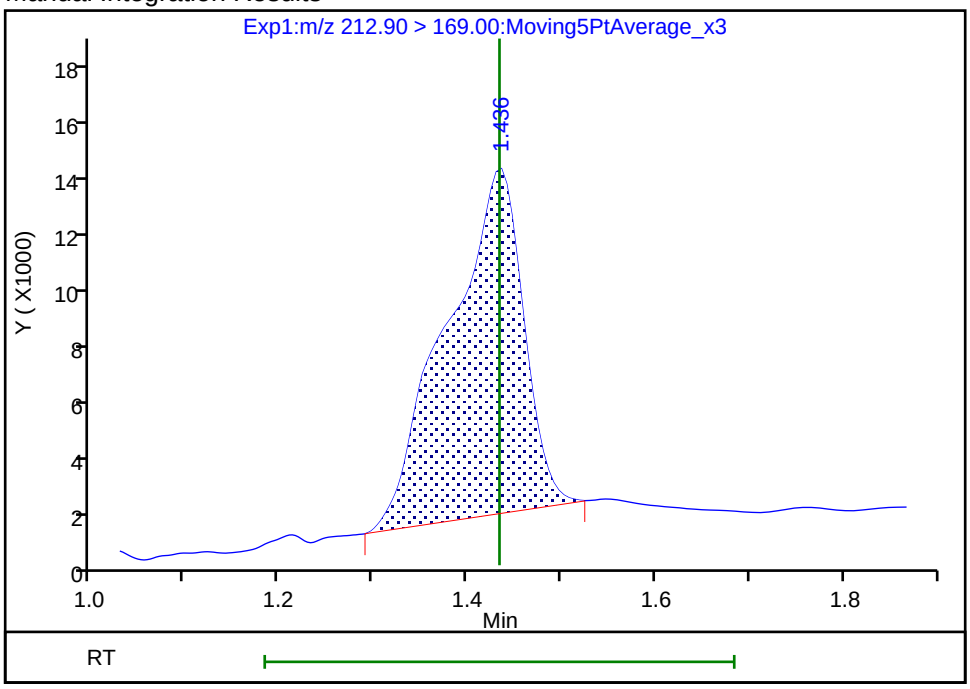
Processing Integration Results

RT: 1.44
Area: 72344
Amount: 0.029958
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 67169
Amount: 0.028389
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:20
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento

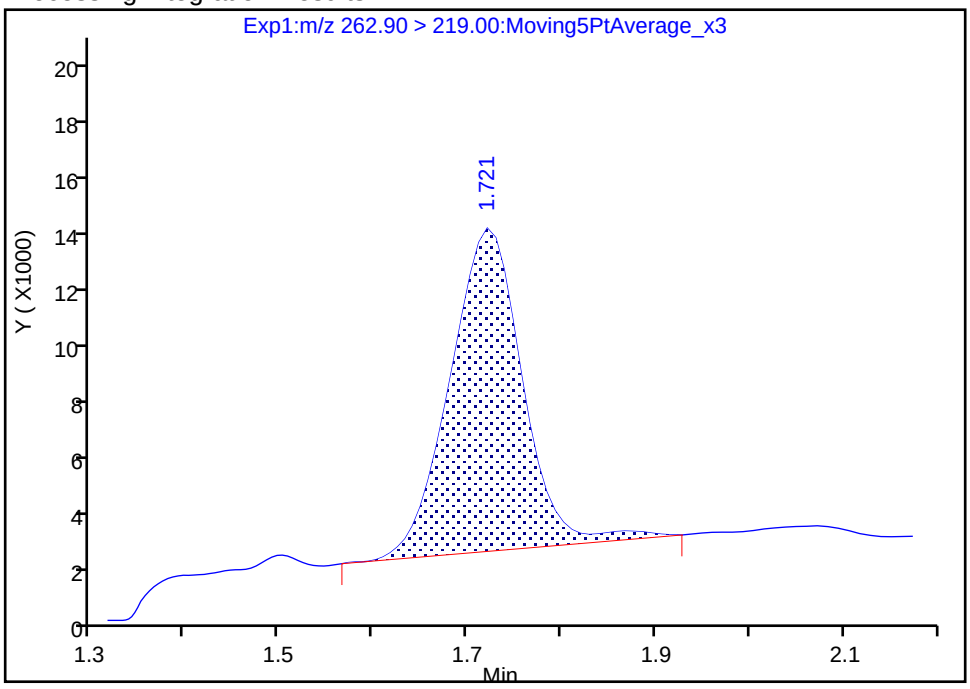
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

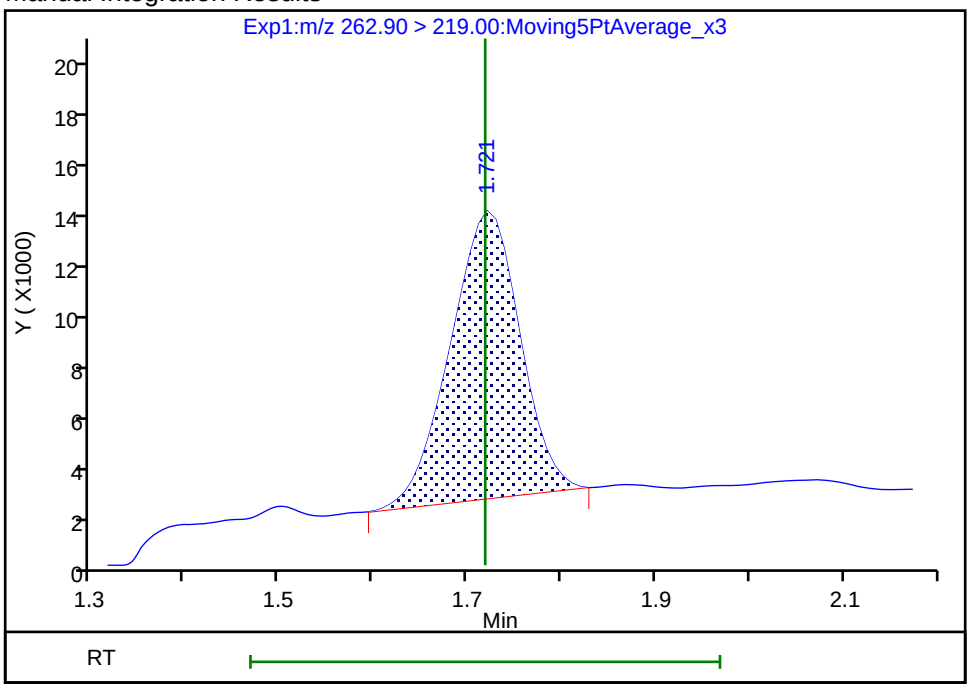
Processing Integration Results

RT: 1.72
Area: 60851
Amount: 0.029660
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 57590
Amount: 0.028328
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:30
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

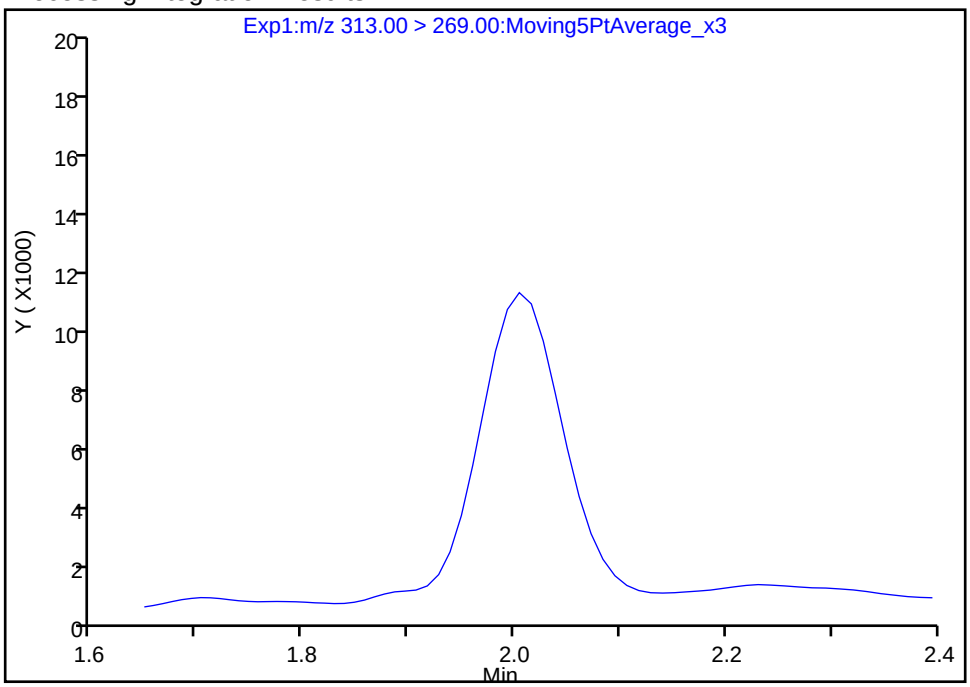
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

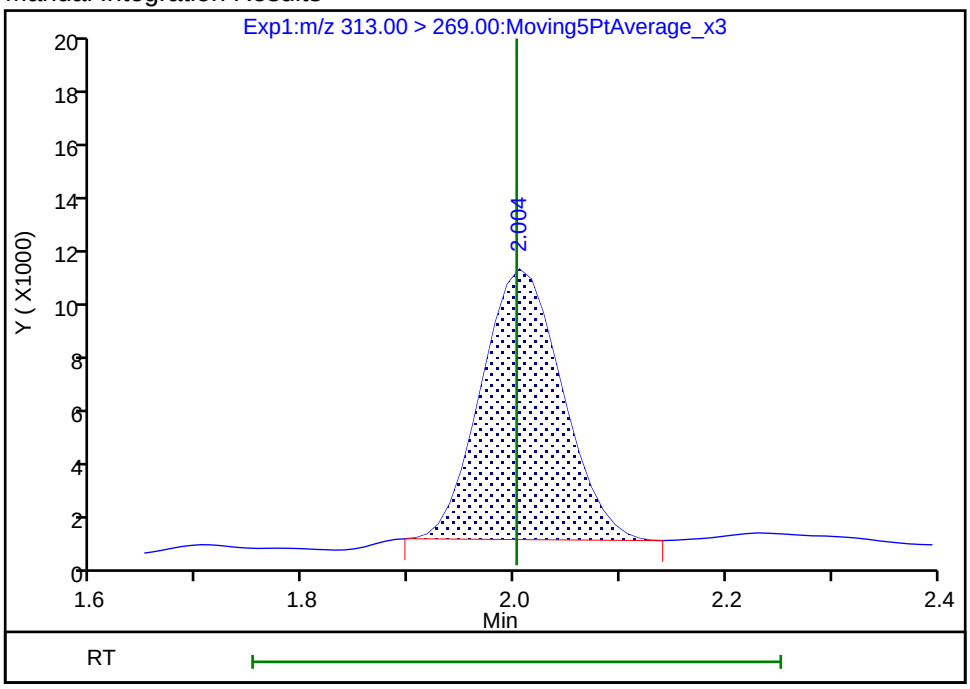
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 51033
Amount: 0.026613
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:05:47
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

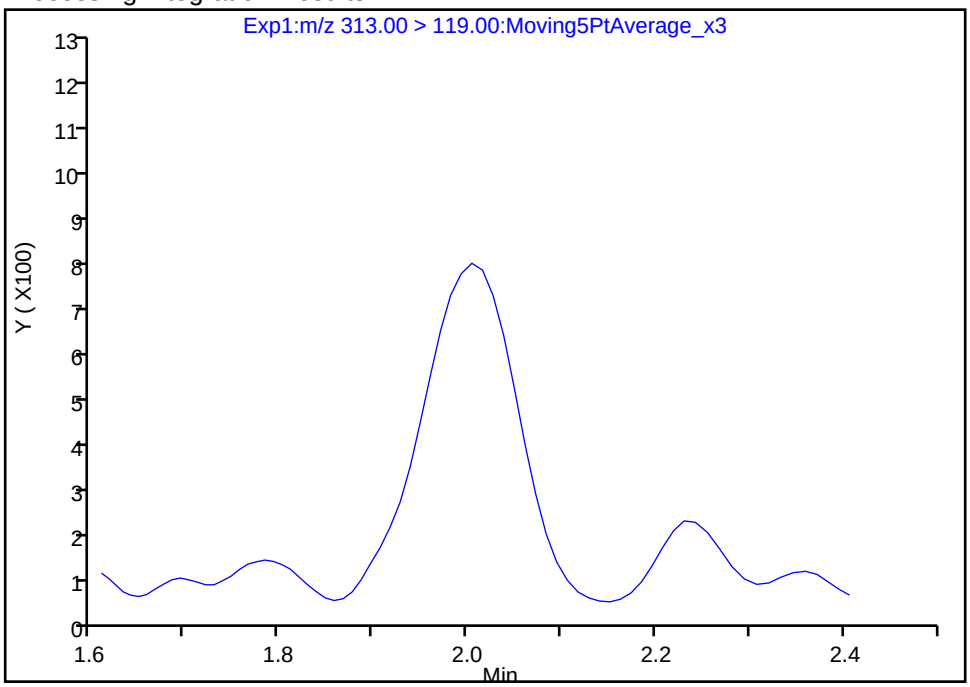
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

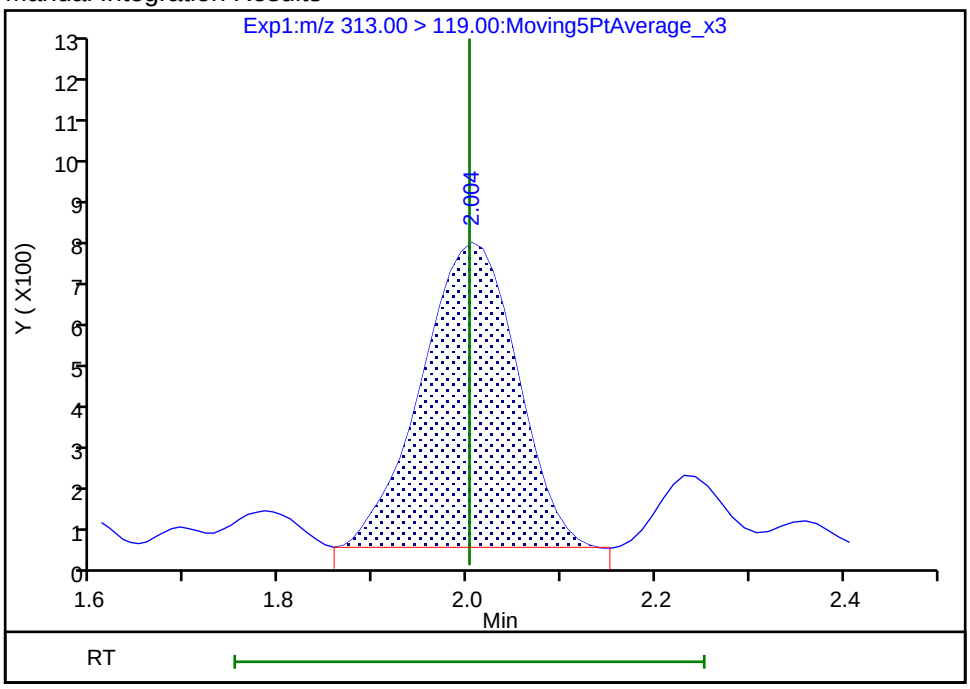
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00
Area: 5299
Amount: 0.026613
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:05:52
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

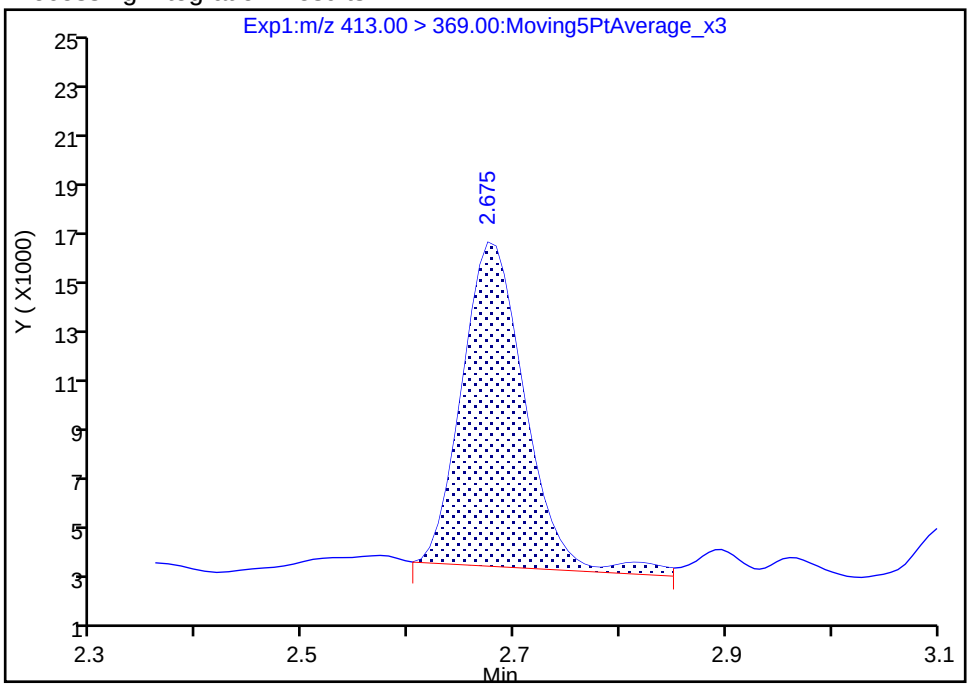
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

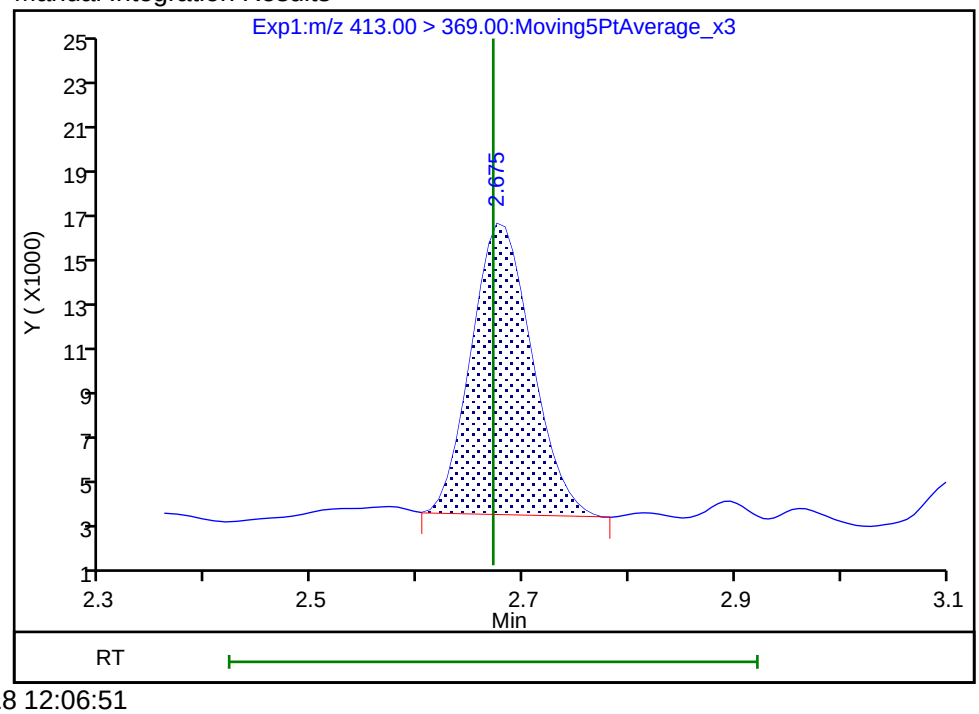
Processing Integration Results

RT: 2.67
Area: 52645
Amount: 0.026626
Amount Units: ng/ml



Manual Integration Results

RT: 2.67
Area: 50090
Amount: 0.025731
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:51
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

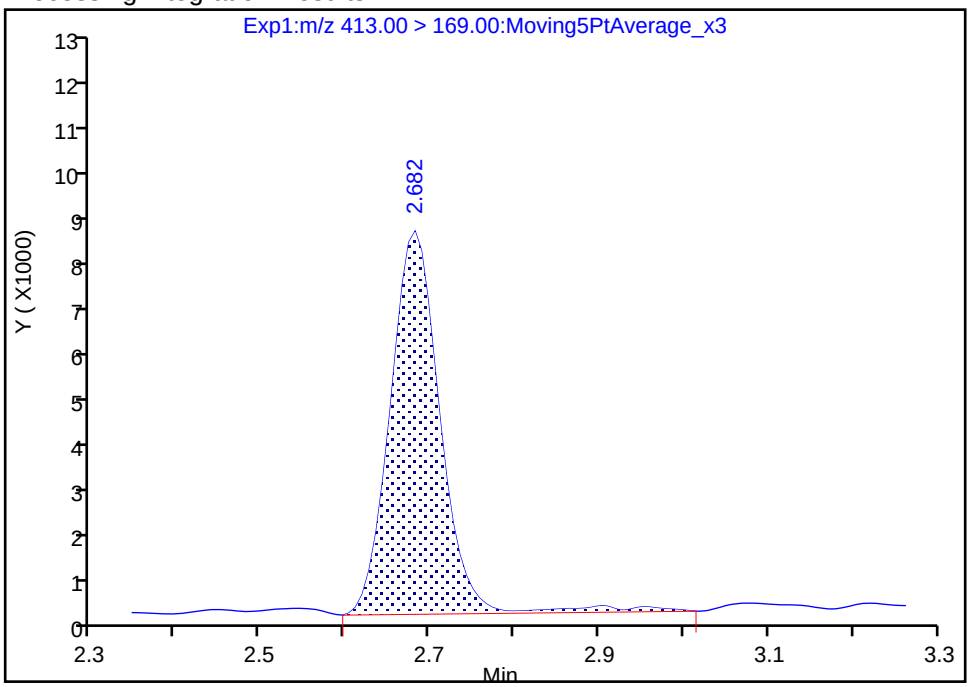
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

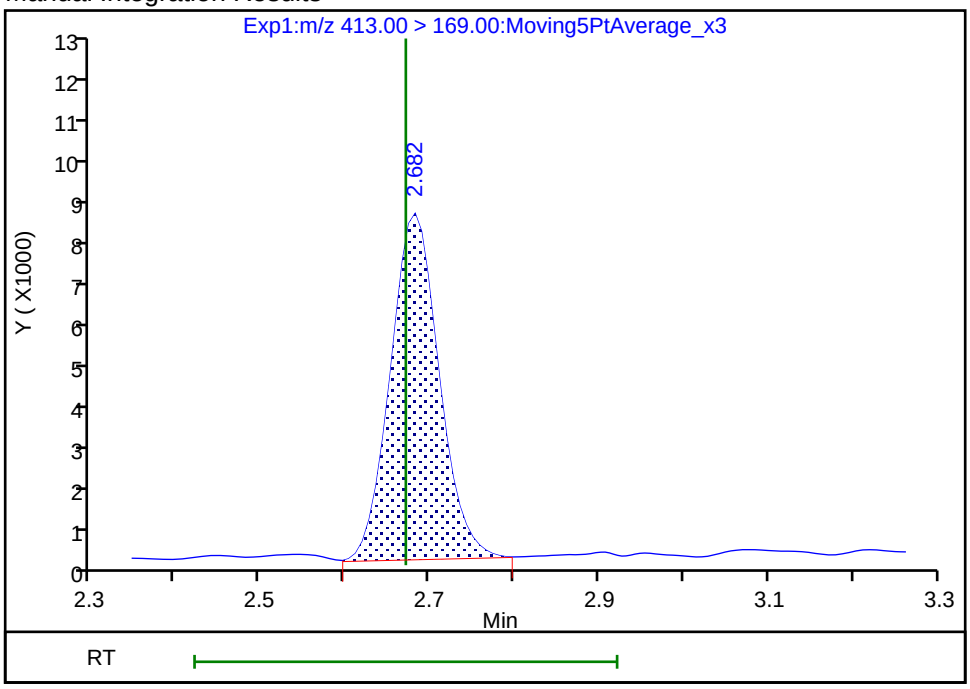
Processing Integration Results

RT: 2.68
Area: 33950
Amount: 0.026626
Amount Units: ng/ml



Manual Integration Results

RT: 2.68
Area: 32967
Amount: 0.025731
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:06:58
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

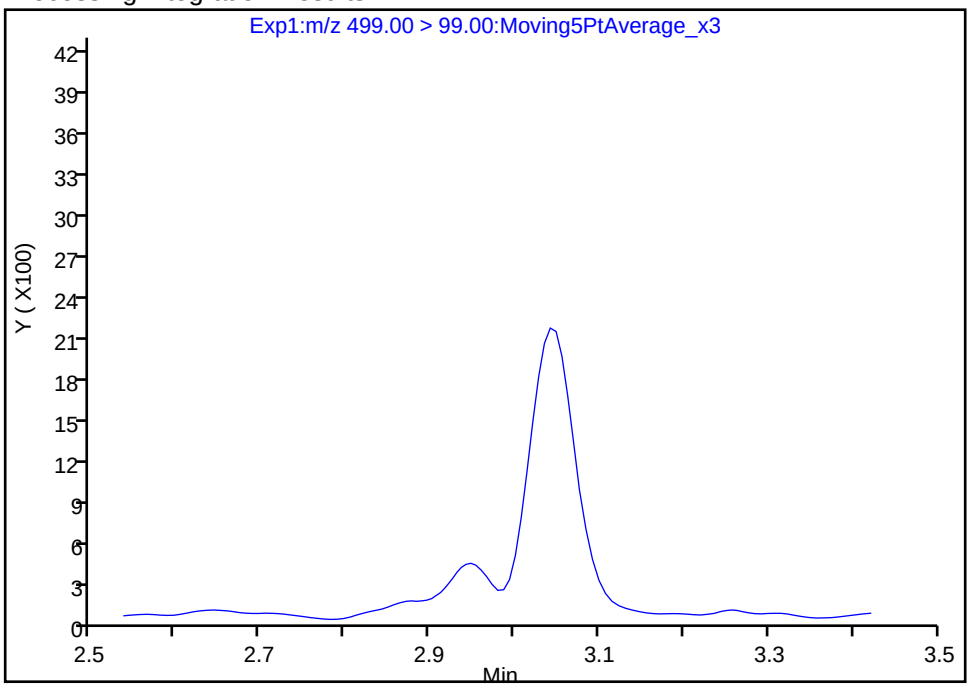
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

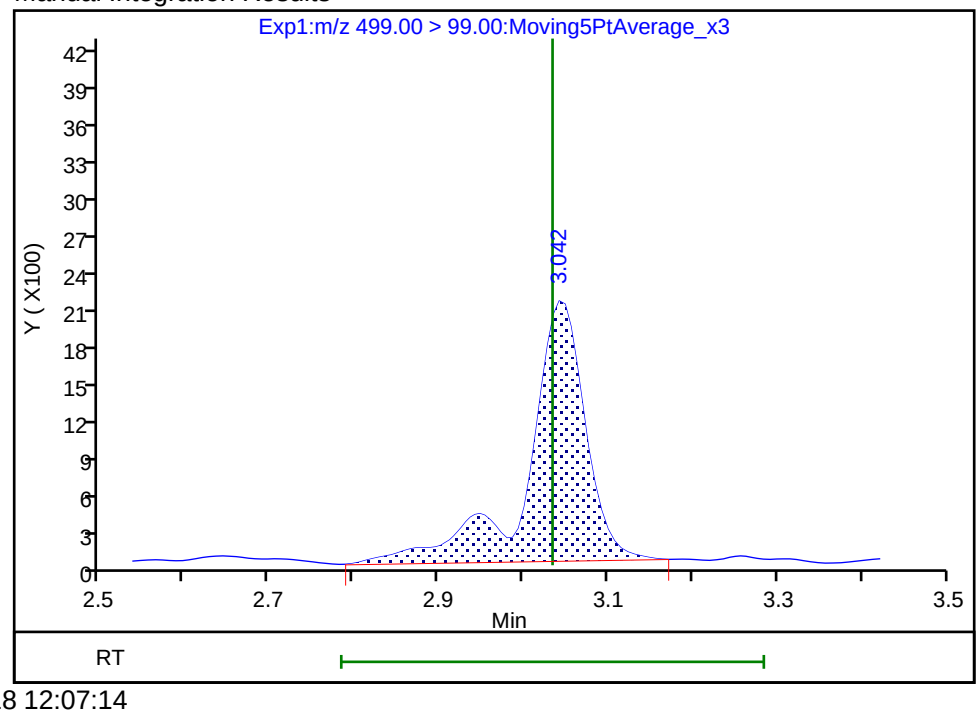
Processing Integration Results

RT: 3.00
Area: 0
Amount: 0.025654
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 9995
Amount: 0.024074
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:07:14
Audit Action: Manually Integrated Audit Reason: Assign Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

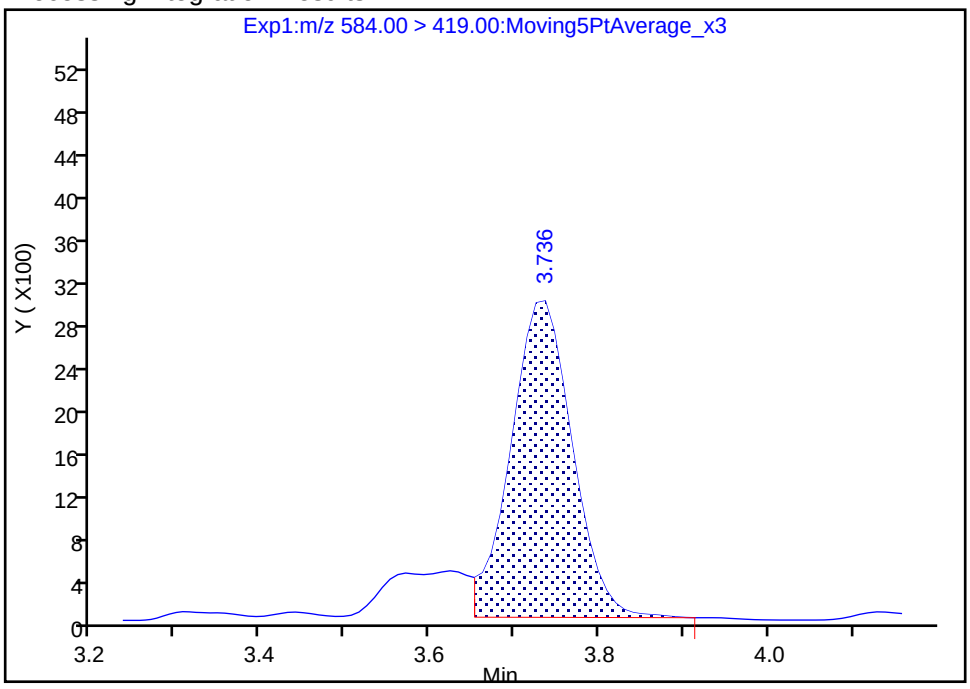
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

33 N-ethyl perfluorooctane sulfonamidoacetic ac, CAS: 2991-50-6

Signal: 1

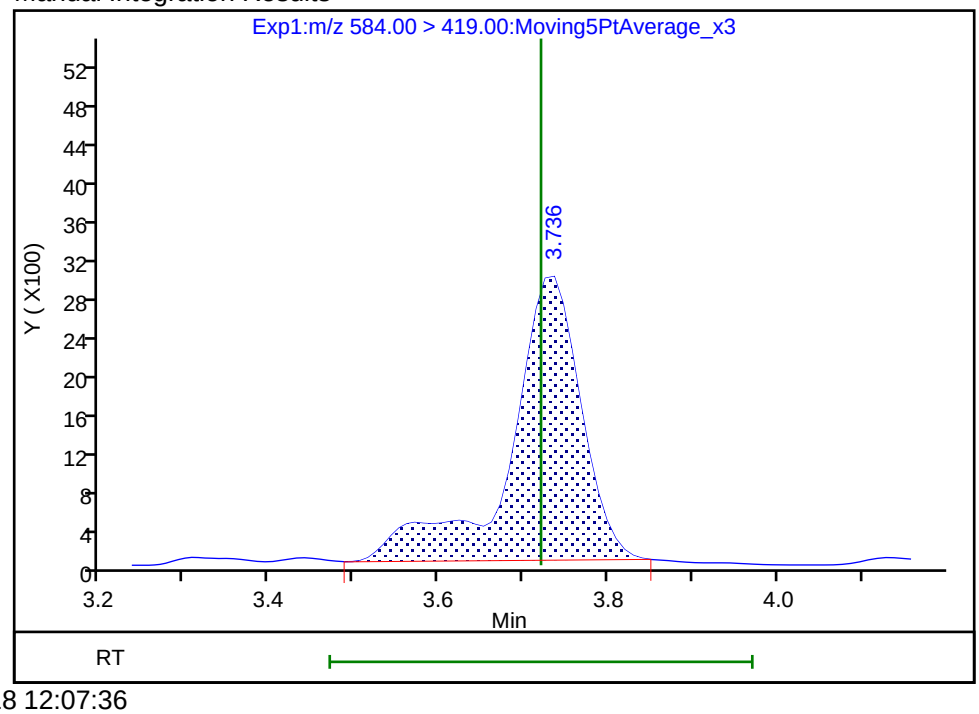
Processing Integration Results

RT: 3.74
Area: 14995
Amount: 0.024253
Amount Units: ng/ml



Manual Integration Results

RT: 3.74
Area: 17427
Amount: 0.027245
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:07:36
Audit Action: Manually Integrated Audit Reason: Isomers

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

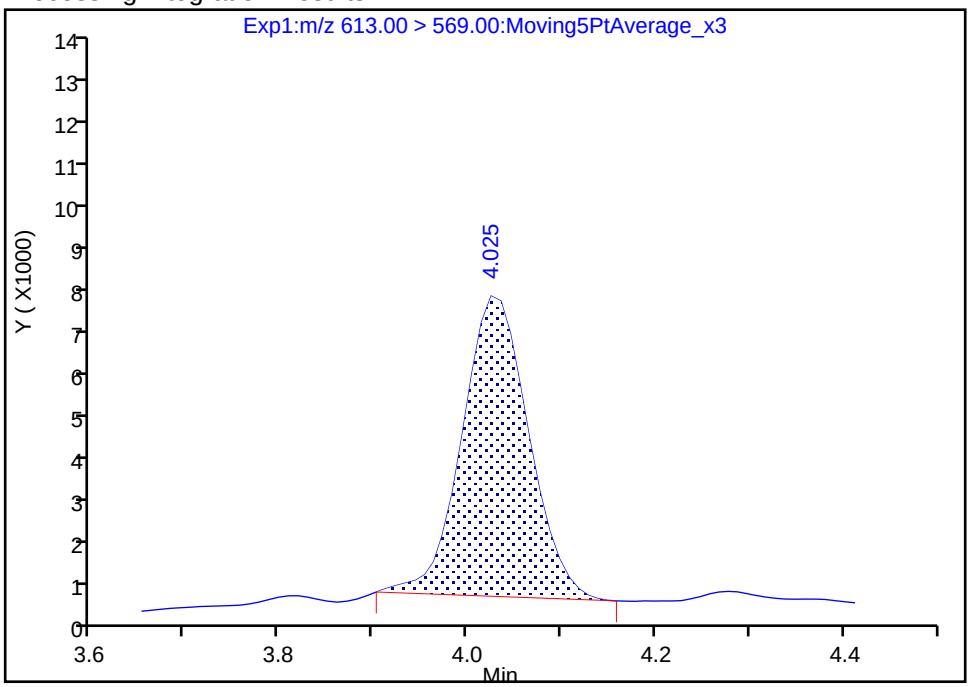
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

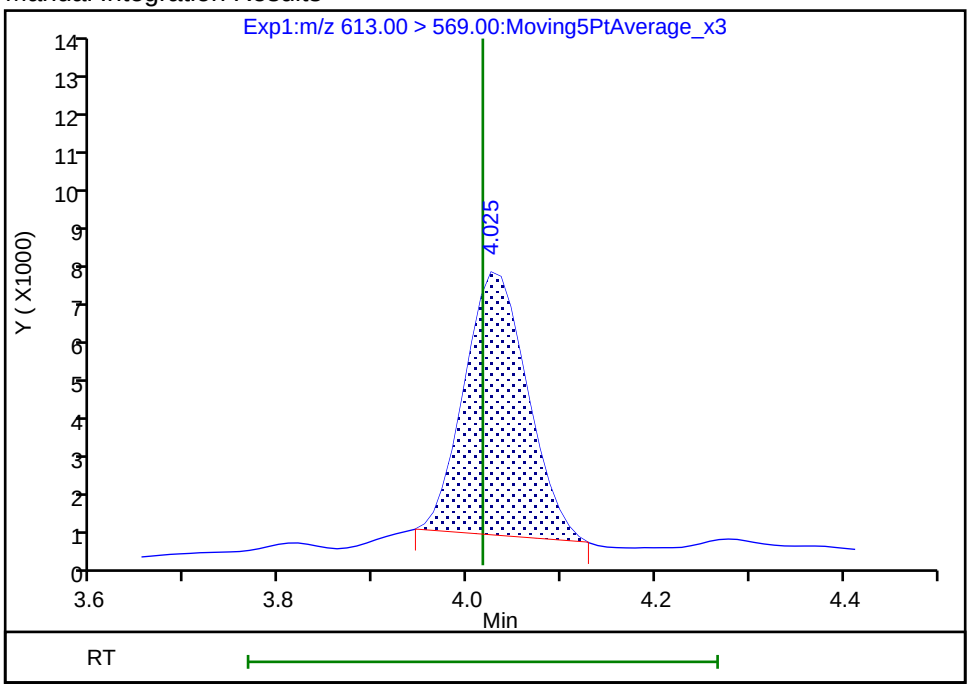
Processing Integration Results

RT: 4.03
Area: 34414
Amount: 0.028303
Amount Units: ng/ml



Manual Integration Results

RT: 4.03
Area: 31624
Amount: 0.026354
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:05
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

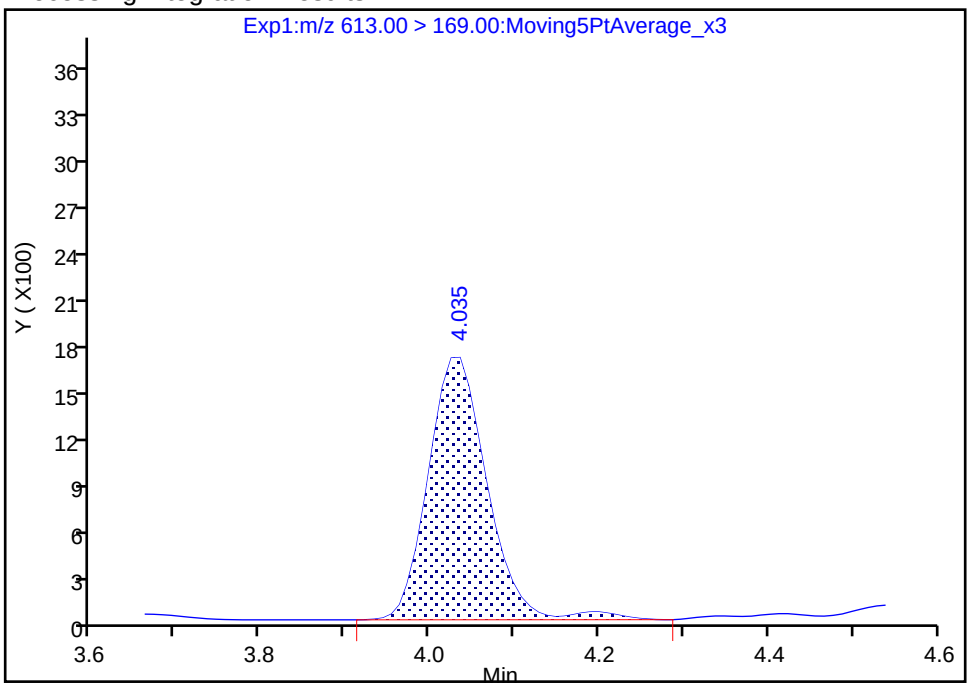
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_002.d
Injection Date: 05-Jul-2018 08:51:23 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

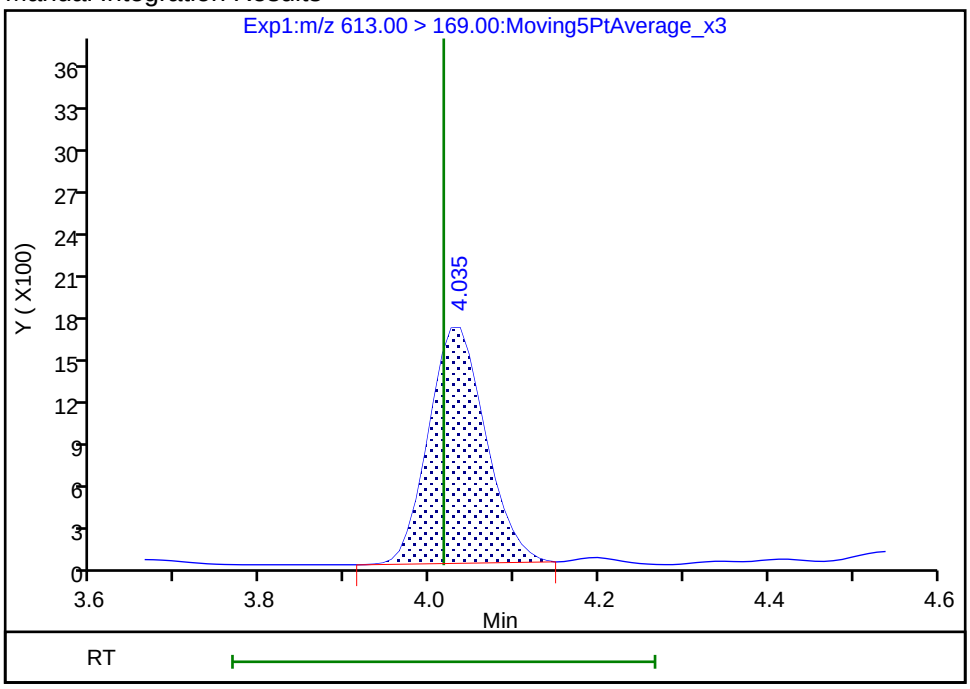
Processing Integration Results

RT: 4.04
Area: 8220
Amount: 0.028303
Amount Units: ng/ml



Manual Integration Results

RT: 4.04
Area: 7882
Amount: 0.026354
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:20
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 05-Jul-2018 08:59:11 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:50 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:10:03

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.535	6125232	2.42		96.6	25828	
2 Perfluorobutyric acid										M
212.90 > 169.00	1.436	1.434	0.002	1.004	127400	0.0509		102	45.8	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.716	0.004	0.643	4568616	2.43		97.4	49155	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.719	0.001	1.000	113509	0.0522		104	81.6	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.756	0.0	0.657	101062	2.25		96.9	787	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.760	-0.004	1.000	145614	0.0442		100.0	845	
298.90 > 99.00	1.756	1.760	-0.004	1.000	57950		2.51(1.25-3.74)	100.0	646	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.966	0.004	0.737	677914	2.35		101	9719	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.966	0.004	1.122	34819	0.0511		109	2054	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	2.000	0.003	0.749	4862877	2.42		96.8	63588	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.003	2.002	0.001	1.000	103001	0.0520		104	175	M
313.00 > 119.00	2.003	2.002	0.001	1.000	9150		11.26(5.03-15.10)	104	136	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.025	0.0	1.154	133231	0.0473		101	2022	
349.00 > 99.00	2.025	2.025	0.0	1.154	50485		2.64(1.36-4.07)	101	1013	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.105	2.099	0.006	0.787	410277	2.49		99.7	8337	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.099	-0.006	0.995	18507	0.0491		98.1	119	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.318	0.001	1.000	91664	0.0455		91.0	133	
363.00 > 169.00	2.319	2.318	0.001	1.000	39505		2.32(1.13-3.40)	91.0	374	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.318	0.001	0.867	4459007	2.50		100	47397	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.331	0.001	1.000	125879	0.0488		107	1261	
399.00 > 99.00	2.332	2.331	0.001	1.000	37997		3.31(1.50-4.49)	107	360	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.333	-0.001	0.872	5278239	2.41		102	31180	
65 Adona										
377.00 > 251.00	2.358	2.365	-0.007	0.777	265083	0.0475		101	2308	
377.00 > 85.00	2.358	2.365	-0.007	0.777	168363		1.57(0.84-2.53)	101	3234	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.645	-0.001	1.000	31462	0.0505		106	299	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.989	945420	2.36		99.4	18792	
D 14 13C4 PFOA										
417.00 > 372.00	2.675	2.670	0.005	1.000	4361265	2.50		99.9	36654	
15 Perfluorooctanoic acid										M
413.00 > 369.00	2.675	2.671	0.004	1.000	110192	0.0533		106	39.0	M
413.00 > 169.00	2.675	2.671	0.004	1.000	60029		1.84(0.84-2.52)	106	360	
* 62 13C2-PFOA										
415.00 > 370.00	2.675	2.671	0.004		4578801	2.50			39626	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.682	2.678	0.004	0.884	103856	0.0515		108	1694	
449.00 > 99.00	2.675	2.678	-0.003	0.881	27065		3.84(1.94-5.82)	108	755	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.035	3.034	0.001	1.000	85326	0.0485		104	2397	
499.00 > 99.00	3.035	3.034	0.001	1.000	21775		3.92(2.31-6.93)	104	522	
D 19 13C5 PFNA										
468.00 > 423.00	3.035	3.034	0.001	1.135	3648217	2.46		98.3	31198	
D 18 13C4 PFOS										
503.00 > 80.00	3.035	3.034	0.001	1.135	3601856	2.30		96.2	31821	
20 Perfluorononanoic acid										
463.00 > 419.00	3.035	3.036	-0.001	1.000	74314	0.0473		94.5	125	
463.00 > 169.00	3.035	3.036	-0.001	1.000	19664		3.78(1.90-5.69)	94.5	766	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.246	-0.002	1.069	139553	0.0490		105	2218	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.255	5388753	2.48		99.1	32851	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	109173	0.0511		102	2805	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.385	3.379	0.006	1.115	63937	0.0522		109	1802	
549.00 > 99.00	3.385	3.379	0.006	1.115	22013		2.90(1.33-3.97)	109	711	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.385	3.382	0.003	1.265	1130537	2.54		106	19719	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.385	3.383	0.002	1.000	28993	0.0465		97.1	649	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.394	3.393	0.001	1.000	67800	0.0503		101	259	
513.00 > 169.00	3.394	3.393	0.001	1.000	12210		5.55(2.36-7.09)	101	252	
D 23 13C2 PFDA										
515.00 > 470.00	3.394	3.393	0.001	1.269	3233809	2.53		101	33327	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.543	3.543	0.0	1.325	1841966	2.44		97.6	28355	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.553	3.551	0.001	1.003	42535	0.0561		112	296	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.704	3.702	0.002	1.220	54383	0.0502		104	1125	
599.00 > 99.00	3.704	3.702	0.002	1.220	17030		3.19(1.39-4.16)	104	917	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.715	3.713	0.002	1.389	1922718	2.58		103	14506	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.726	3.721	0.005	1.000	45721	0.0492		98.4	157	
563.00 > 169.00	3.726	3.721	0.005	1.000	9252		4.94(2.12-6.36)	98.4	273	
33 N-ethyl perfluorooctane sulfonamid										M
584.00 > 419.00	3.726	3.721	0.005	1.003	34849	0.0503		101	538	M
D 30 13C2 PFUnA										
565.00 > 520.00	3.726	3.721	0.005	1.393	2733892	2.54		102	37599	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.882	3.879	0.003	1.279	213537	0.0491		104	3758	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.015	4.016	-0.001	1.000	62069	0.0467		93.5	62.4	
613.00 > 169.00	4.015	4.016	-0.001	1.000	17778		3.49(2.13-6.40)	93.5	377	
D 36 13C2 PFDoA										
615.00 > 570.00	4.015	4.016	-0.001	1.501	3012454	2.61		105	15080	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.287	4.284	0.003	1.068	77431	0.0524		105	84.5	
663.00 > 169.00	4.287	4.284	0.003	1.068	22681		3.41(1.25-3.76)	105	370	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.528	4.524	0.004	1.693	3501728	2.49		99.7	14609	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.528	4.524	0.004	1.000	18829	0.0496		99.3	255	
713.00 > 219.00	4.518	4.524	-0.006	0.998	14104		1.34(0.71-2.13)	99.3	293	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.945	4.940	0.005	1.849	6624124	2.55		102	13383	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.945	4.941	0.004	1.000	185133	0.0507		101	86.0	
813.00 > 169.00	4.945	4.941	0.004	1.000	31417		5.89(2.86-8.58)	101	268	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.311	5.302	0.009	1.074	162737	0.0528		106	53.6	
913.00 > 169.00	5.311	5.302	0.009	1.074	21103		7.71(3.83-11.48)	106	301	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d

Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N

Lims ID: IC L2 Full

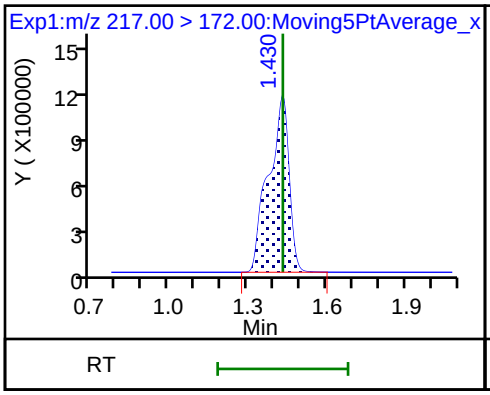
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

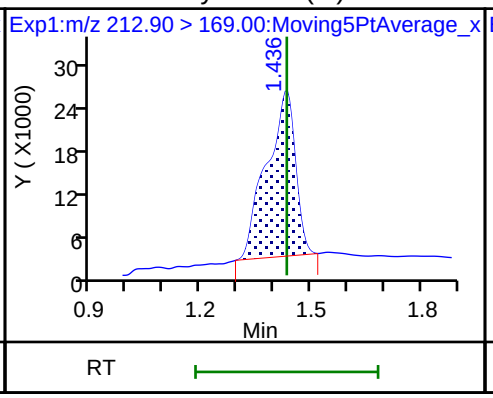
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

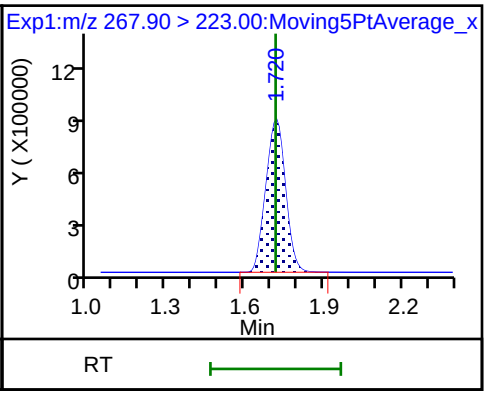
D 1 13C4 PFBA



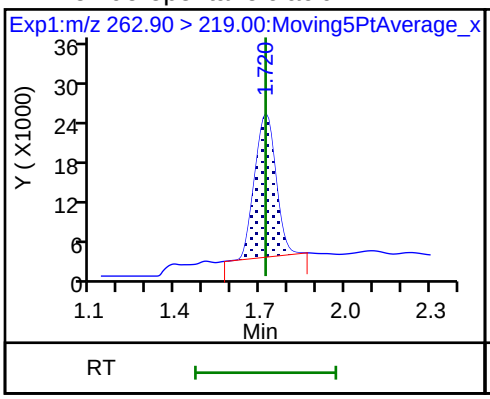
2 Perfluorobutyric acid (M)



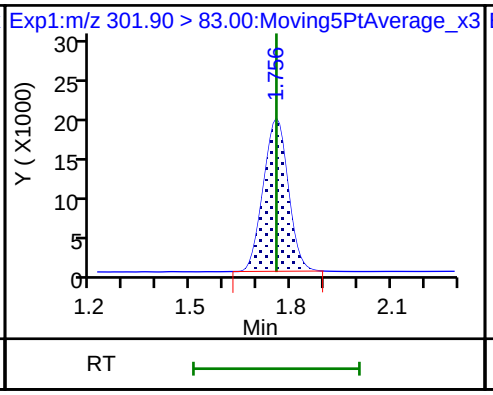
D 3 13C5-PFPeA



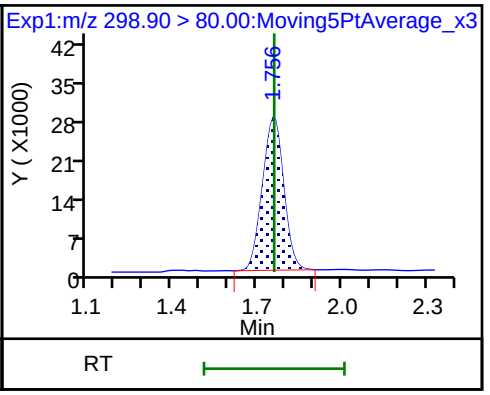
4 Perfluoropentanoic acid



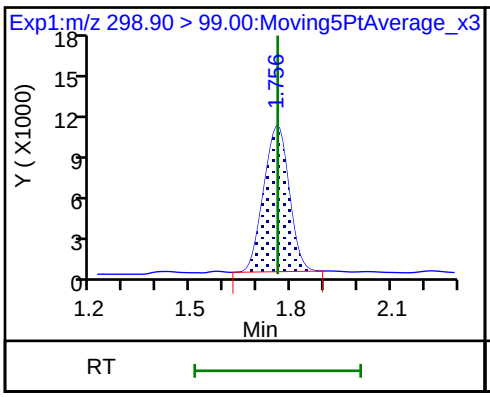
D 47 13C3-PFBS



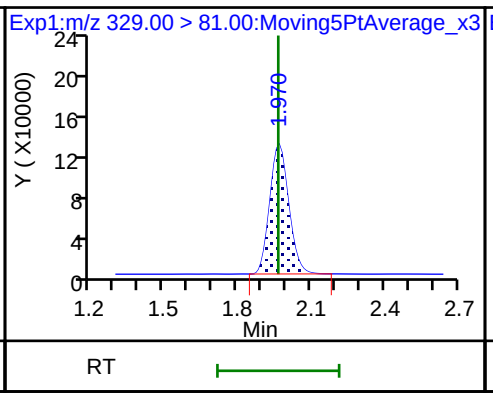
5 Perfluorobutanesulfonic acid



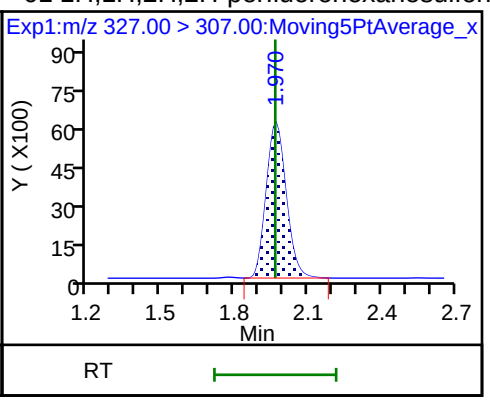
5 Perfluorobutanesulfonic acid



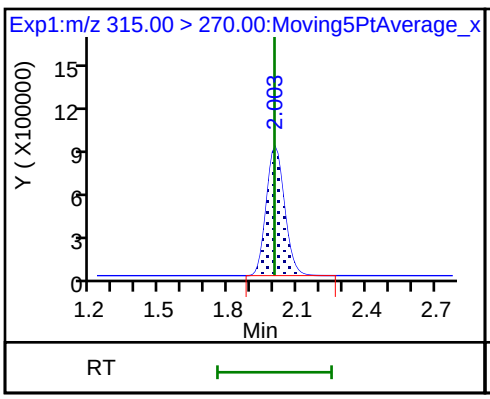
D 60 M2-4:2FTS



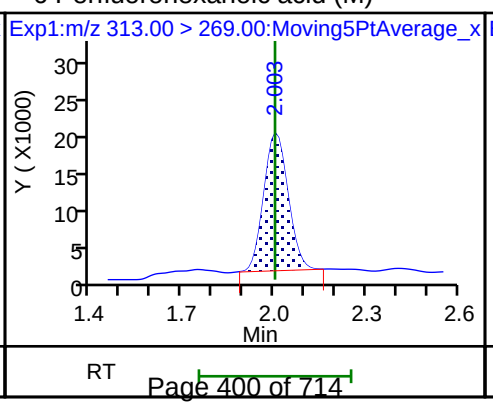
61 1H,1H,2H,2H-perfluorohexanesulfoni



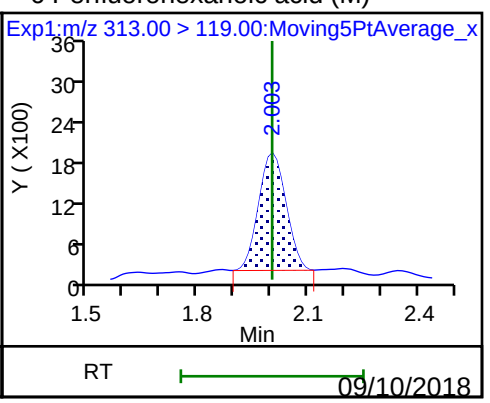
D 7 13C2 PFHxA



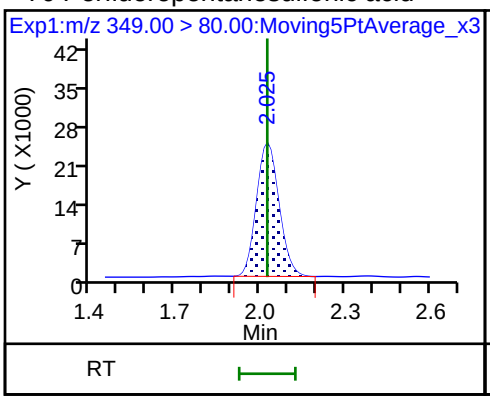
6 Perfluorohexanoic acid (M)



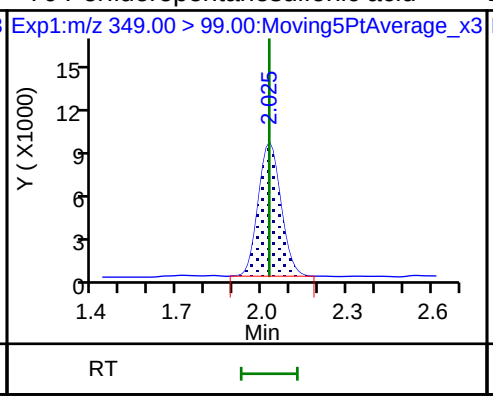
6 Perfluorohexanoic acid (M)



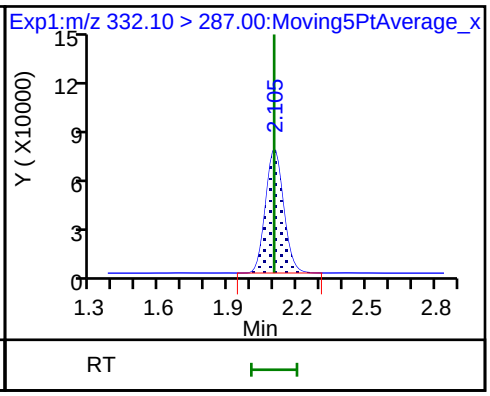
70 Perfluoropentanesulfonic acid



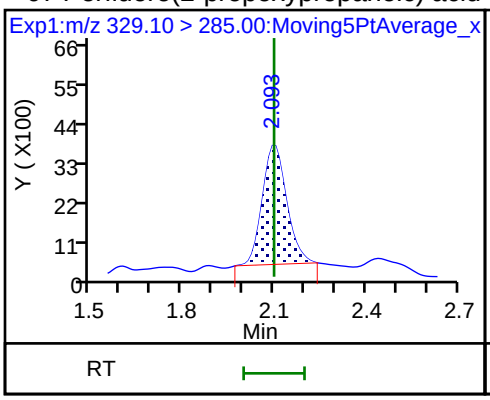
70 Perfluoropentanesulfonic acid



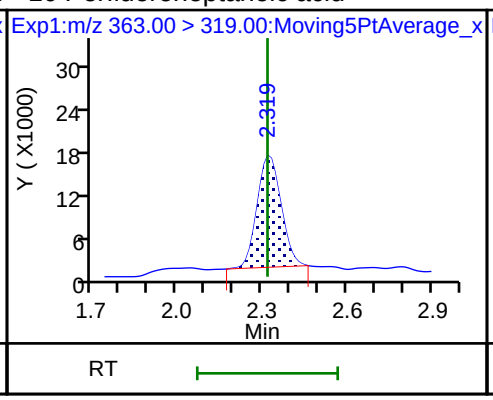
D 64 13C3 HFPO-DA



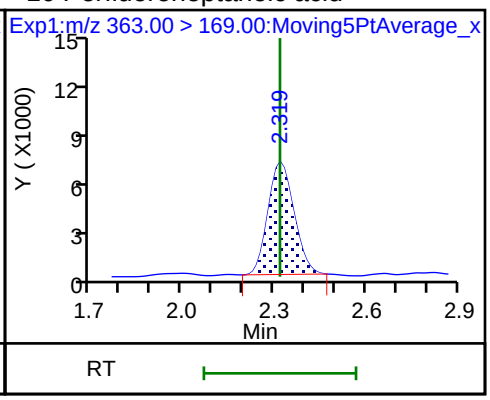
67 Perfluoro(2-propoxypropanoic) acid



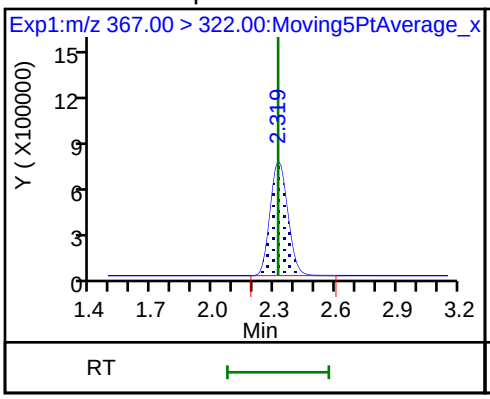
10 Perfluoroheptanoic acid



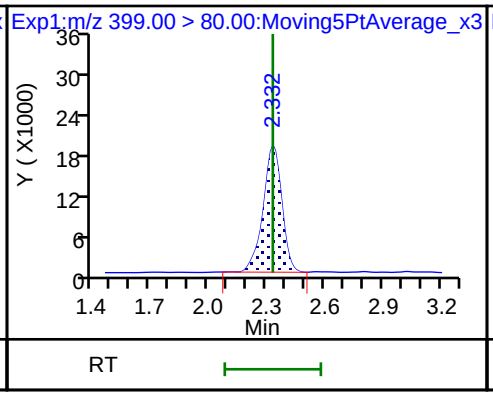
10 Perfluoroheptanoic acid



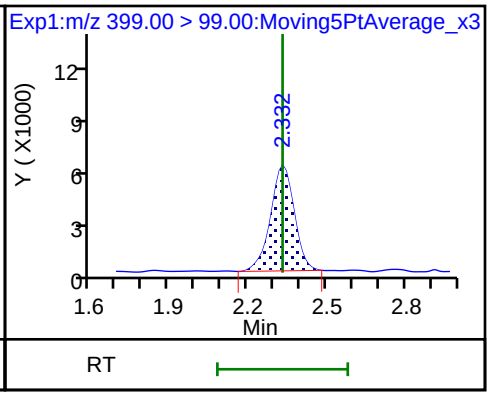
D 9 13C4-PFHpA



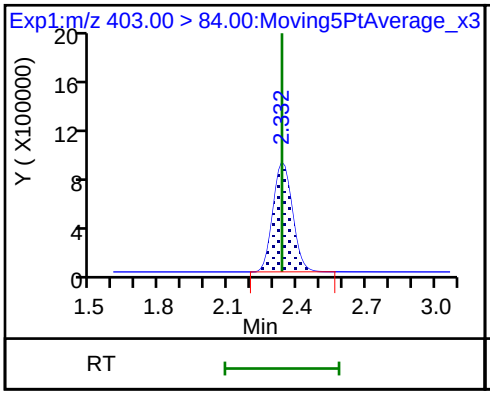
8 Perfluorohexanesulfonic acid



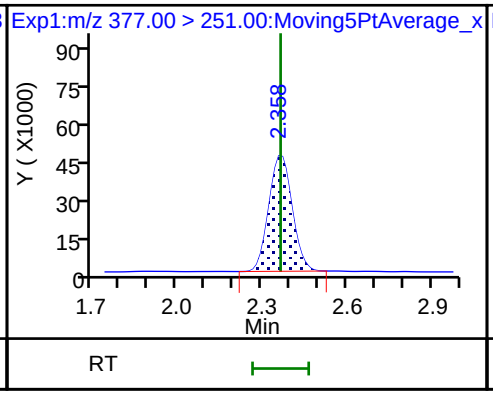
8 Perfluorohexanesulfonic acid



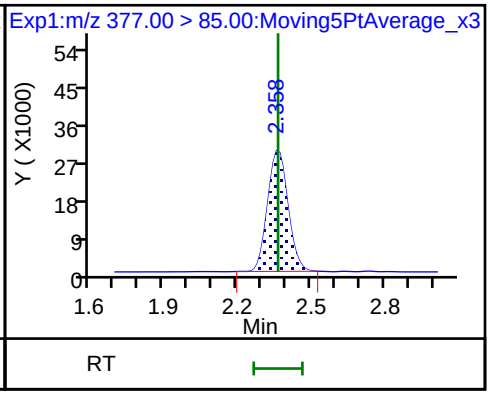
D 11 18O2 PFHxS



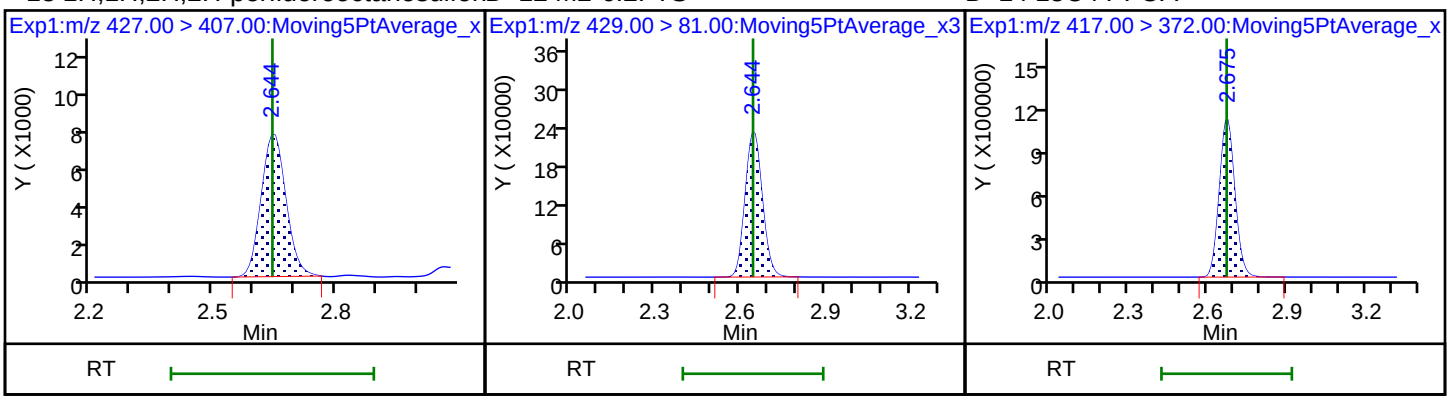
65 Adona



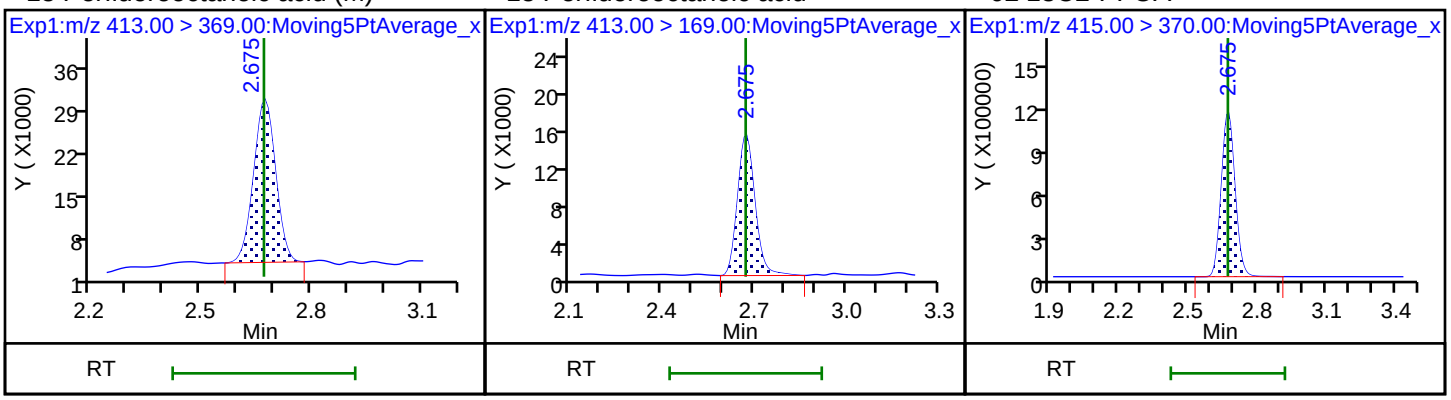
65 Adona



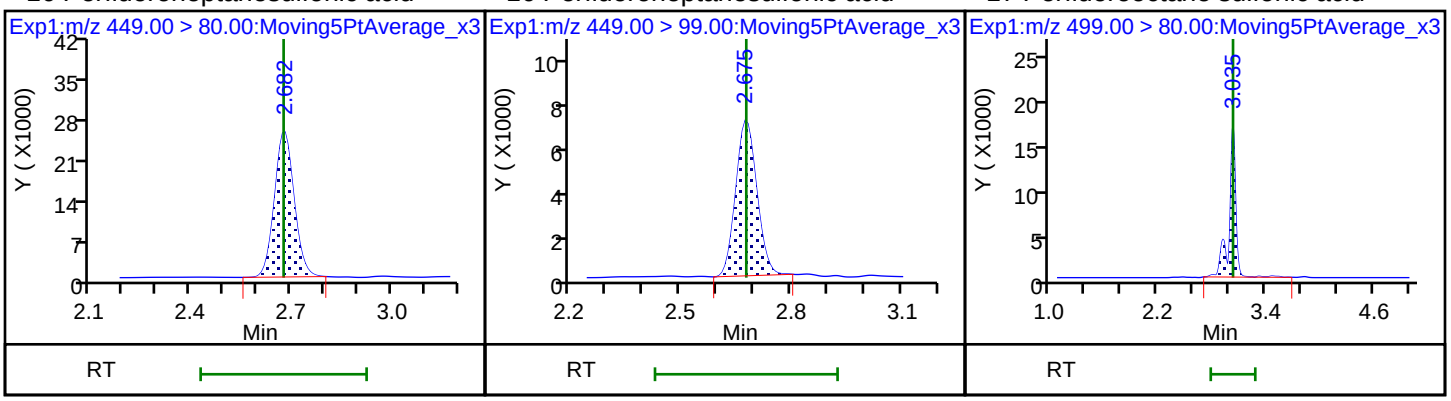
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



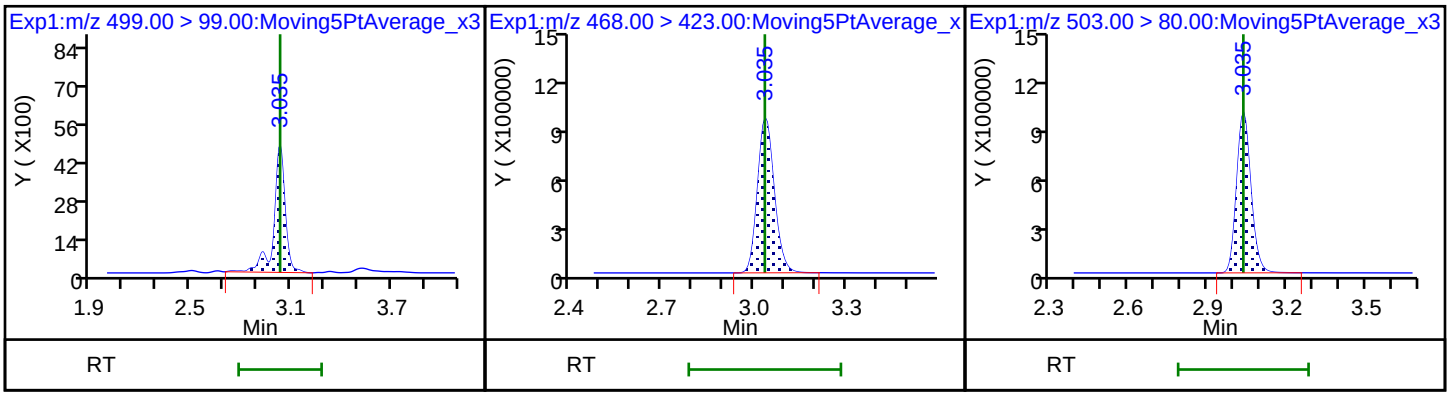
15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid * 62 13C2-PFOA



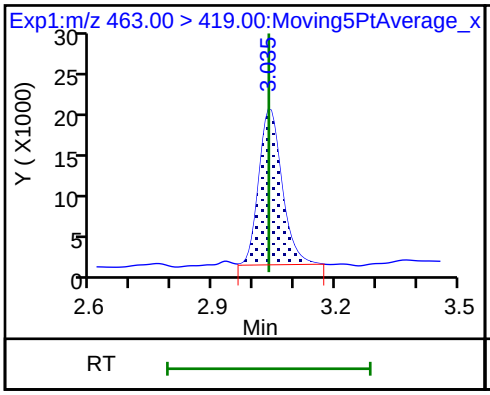
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



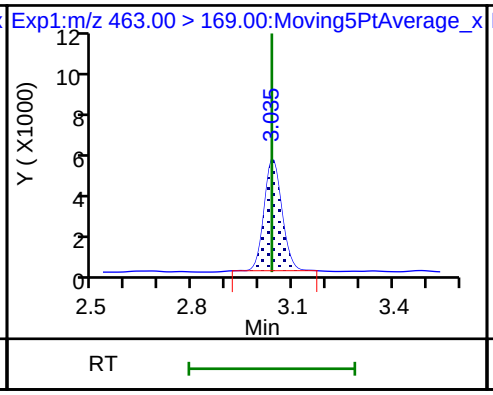
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



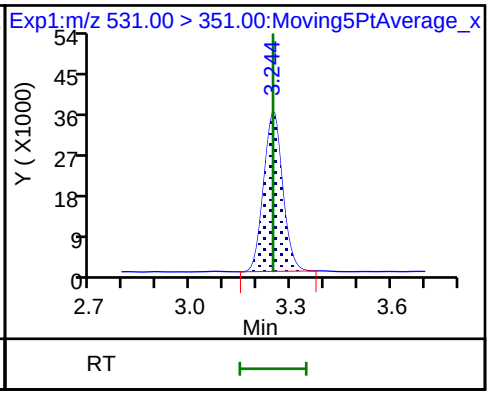
20 Perfluorononanoic acid



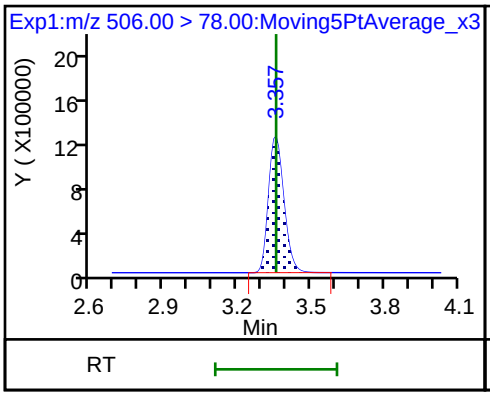
20 Perfluorononanoic acid



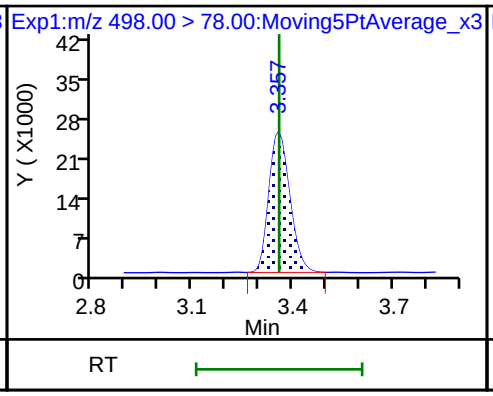
69 9-Chlorohexadecafluoro-3-oxanonane



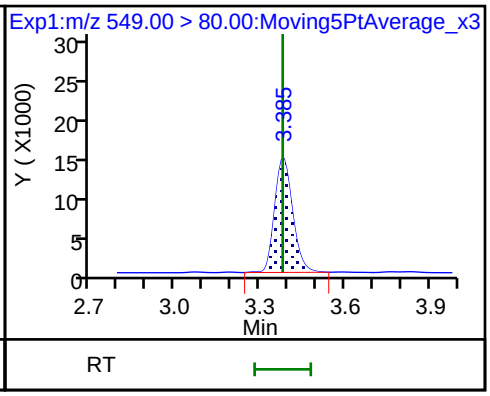
D 21 13C8 FOSA



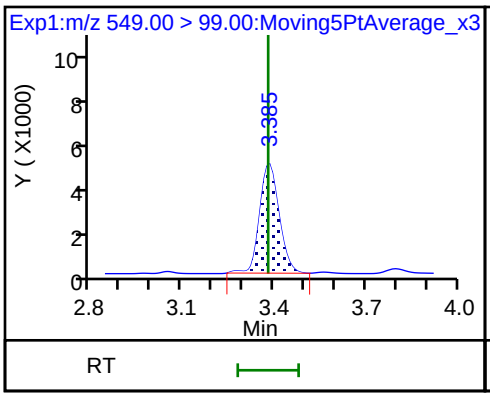
22 Perfluorooctane Sulfonamide



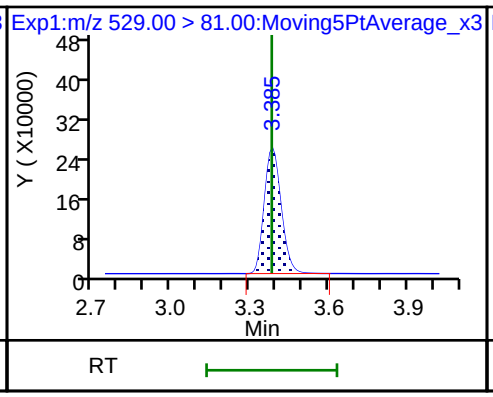
68 Perfluorononanesulfonic acid



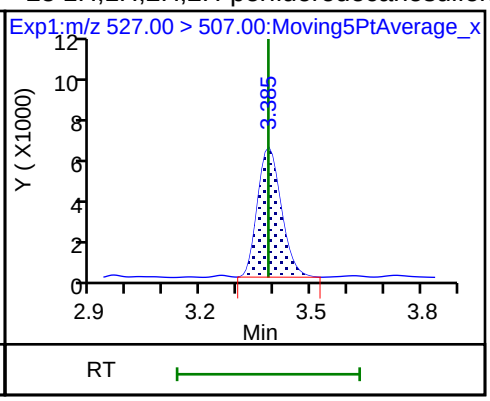
68 Perfluorononanesulfonic acid



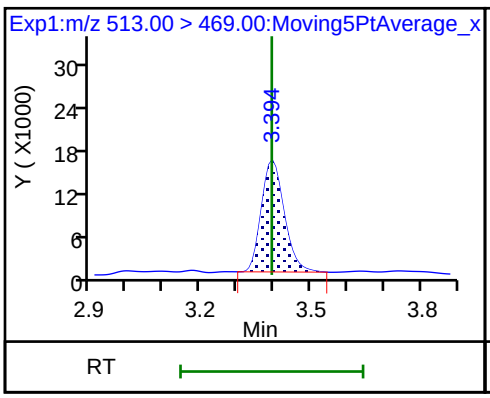
D 26 M2-8:2FTS



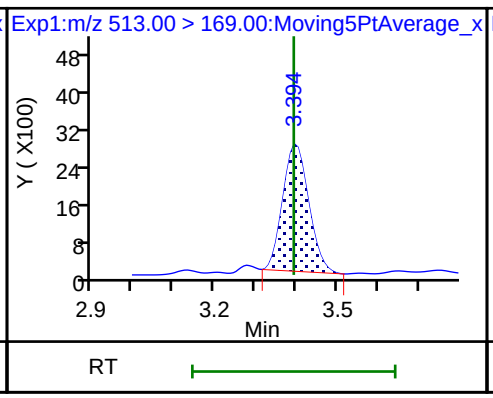
25 1H,1H,2H,2H-perfluorodecanesulfoni



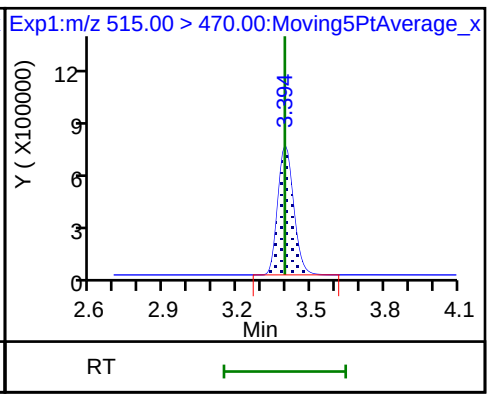
24 Perfluorodecanoic acid



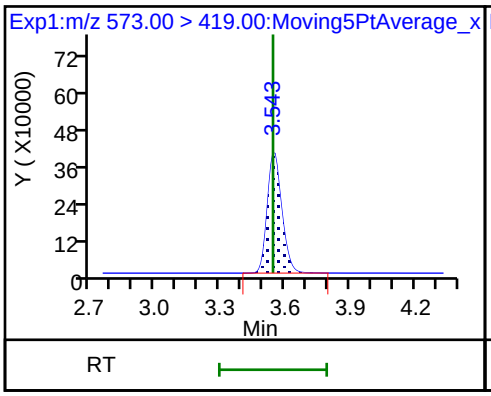
24 Perfluorodecanoic acid



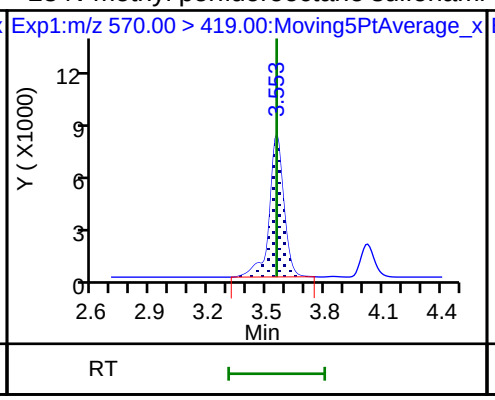
D 23 13C2 PFDA



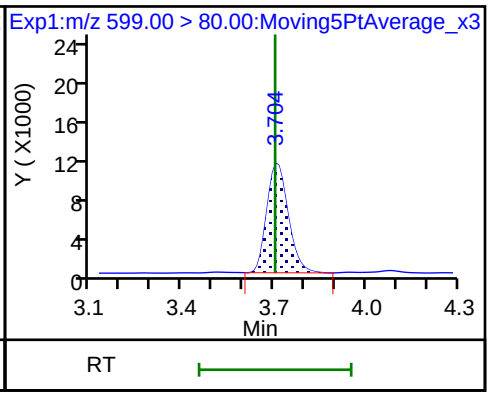
D 27 d3-NMeFOSAA



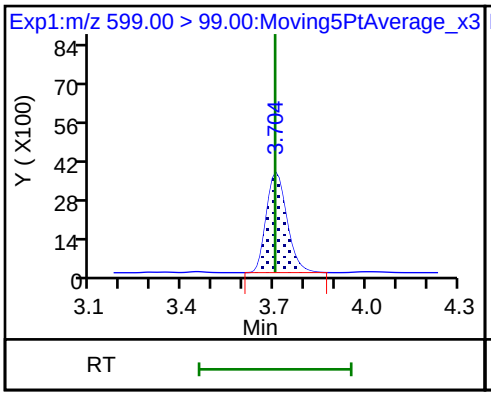
28 N-methyl perfluorooctane sulfonami



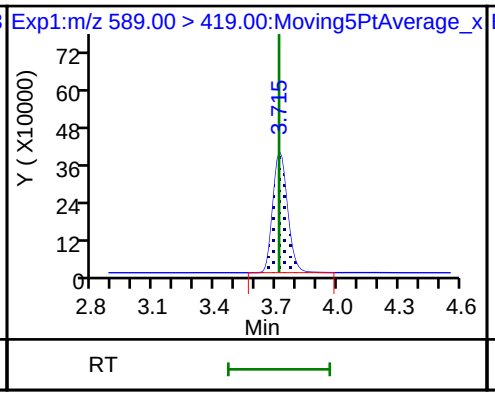
29 Perfluorodecane Sulfonic acid



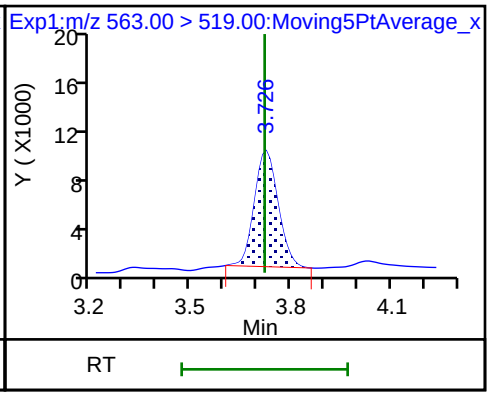
29 Perfluorodecane Sulfonic acid



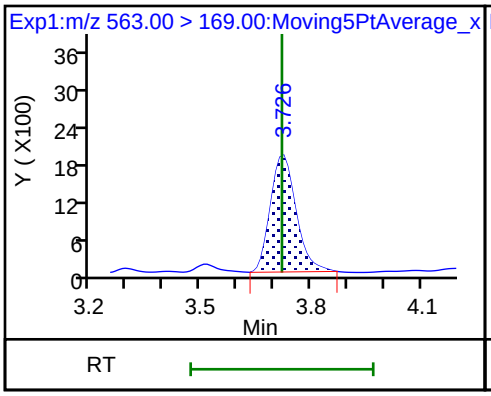
D 32 d5-NEtFOSAA



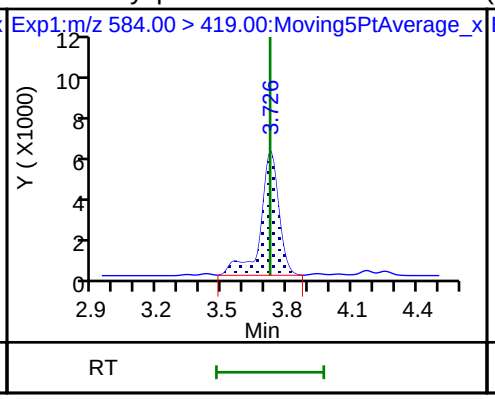
31 Perfluoroundecanoic acid



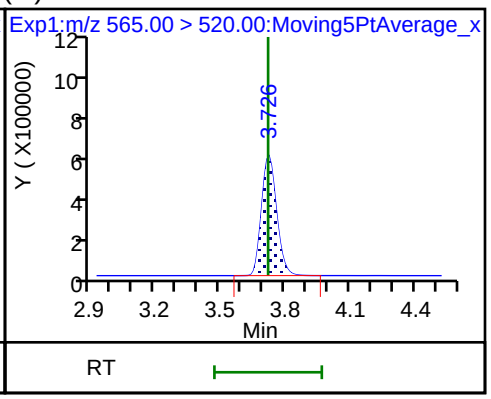
31 Perfluoroundecanoic acid



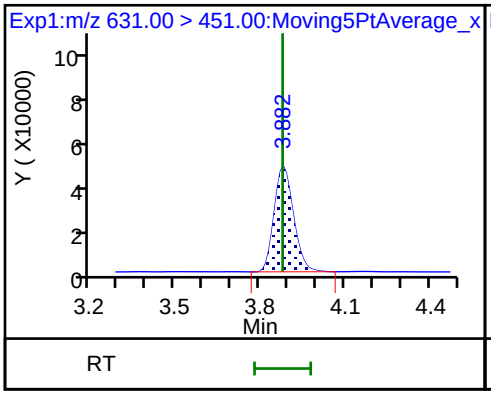
33 N-ethyl perfluorooctane sulfonamid



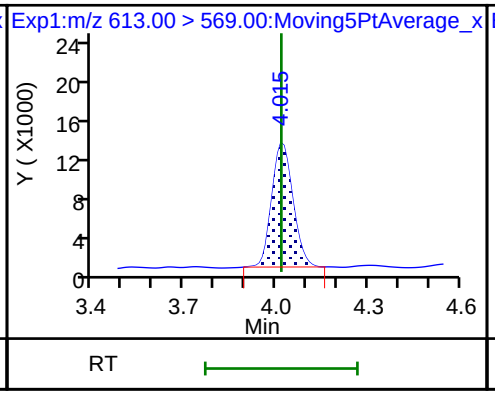
(M)30 13C2 PFUnA



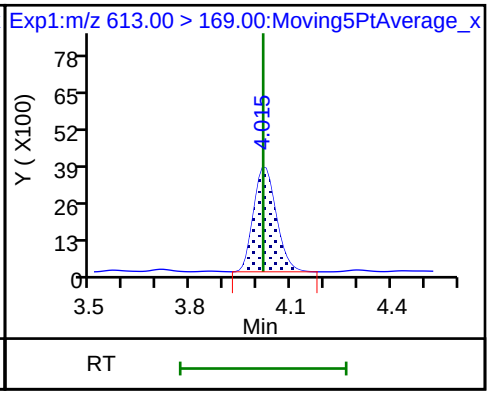
66 11-Chloroeicosafluoro-3-oxaundecan



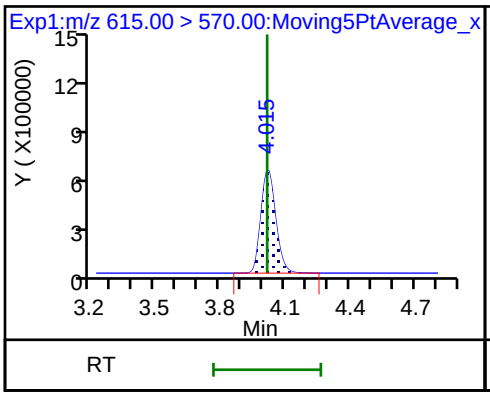
37 Perfluorododecanoic acid



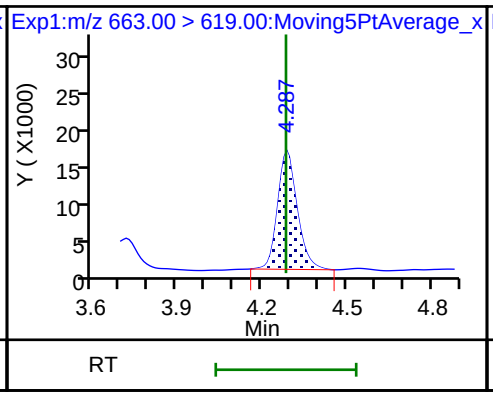
37 Perfluorododecanoic acid



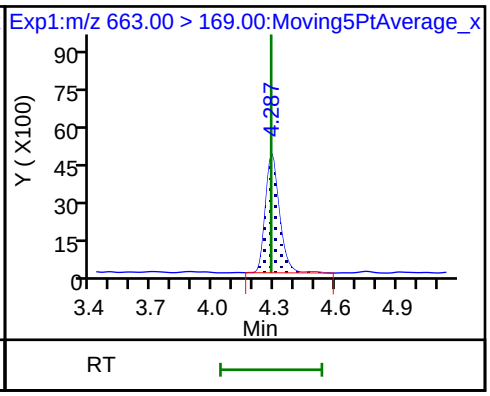
D 36 13C2 PFDoA



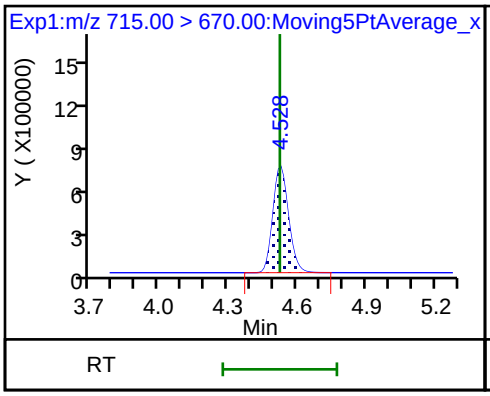
41 Perfluorotridecanoic acid



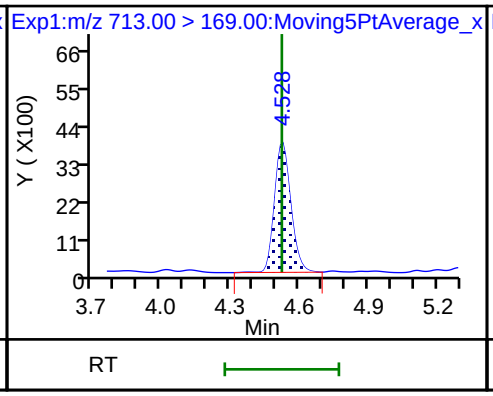
41 Perfluorotridecanoic acid



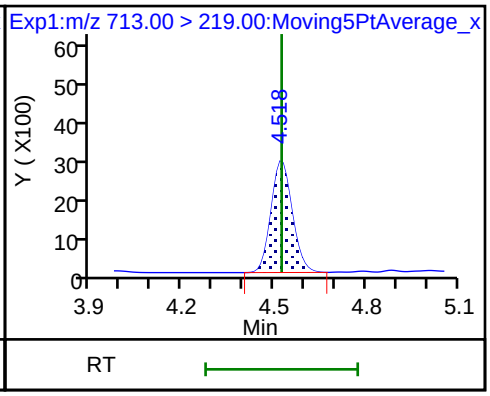
D 43 13C2-PFTeDA



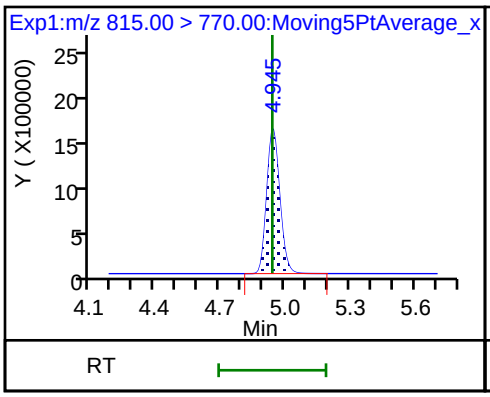
42 Perfluorotetradecanoic acid



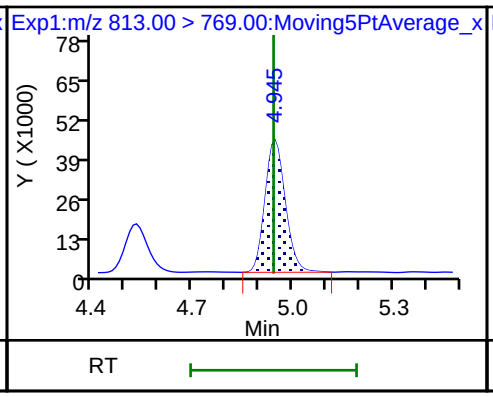
42 Perfluorotetradecanoic acid



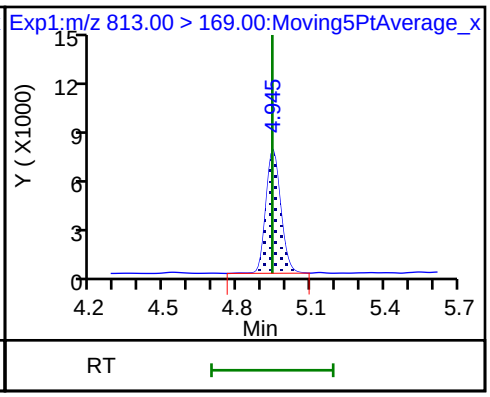
D 44 13C2-PFHxDA



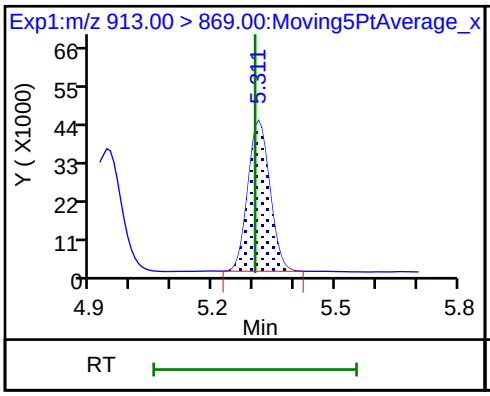
45 Perfluorohexadecanoic acid



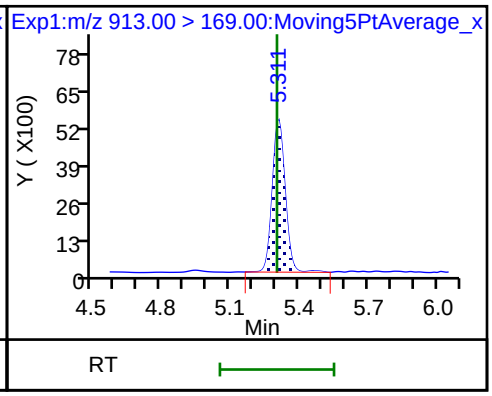
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

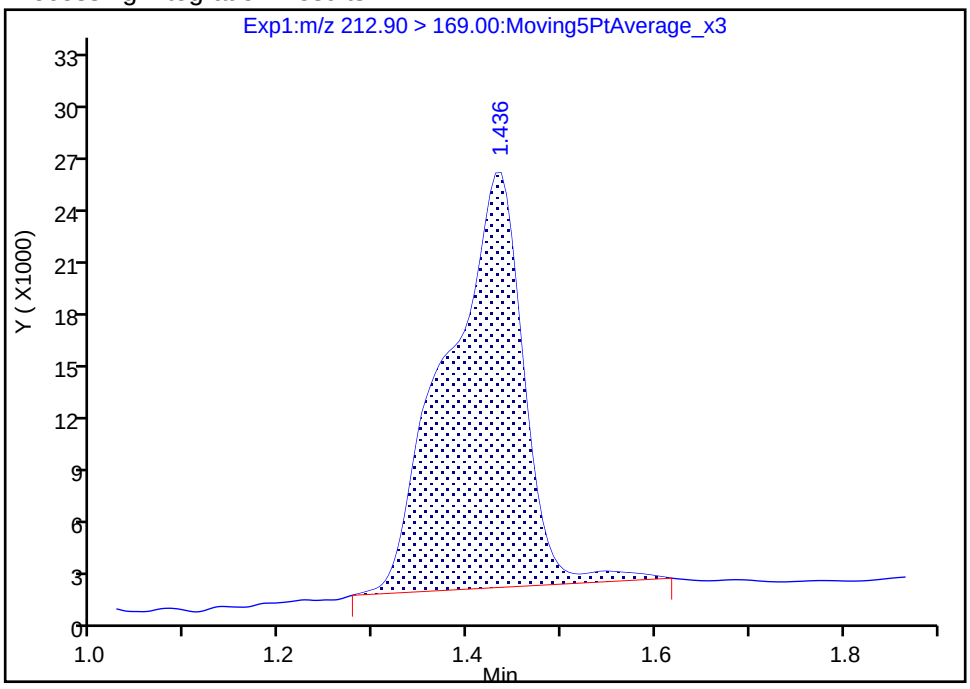
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

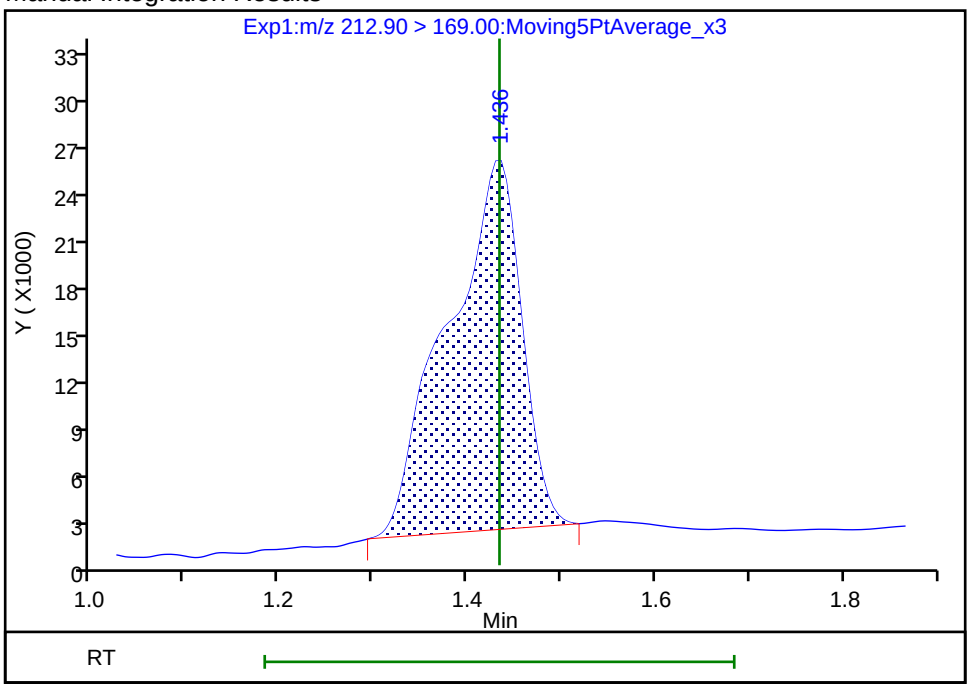
Processing Integration Results

RT: 1.44
Area: 134522
Amount: 0.053319
Amount Units: ng/ml



Manual Integration Results

RT: 1.44
Area: 127400
Amount: 0.050907
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:08:50
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

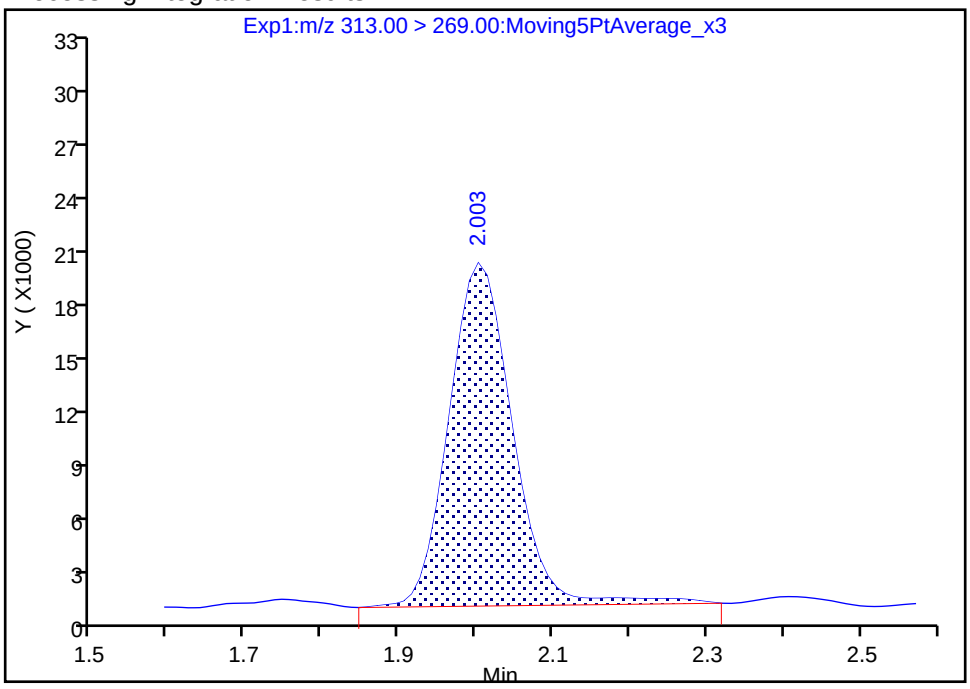
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

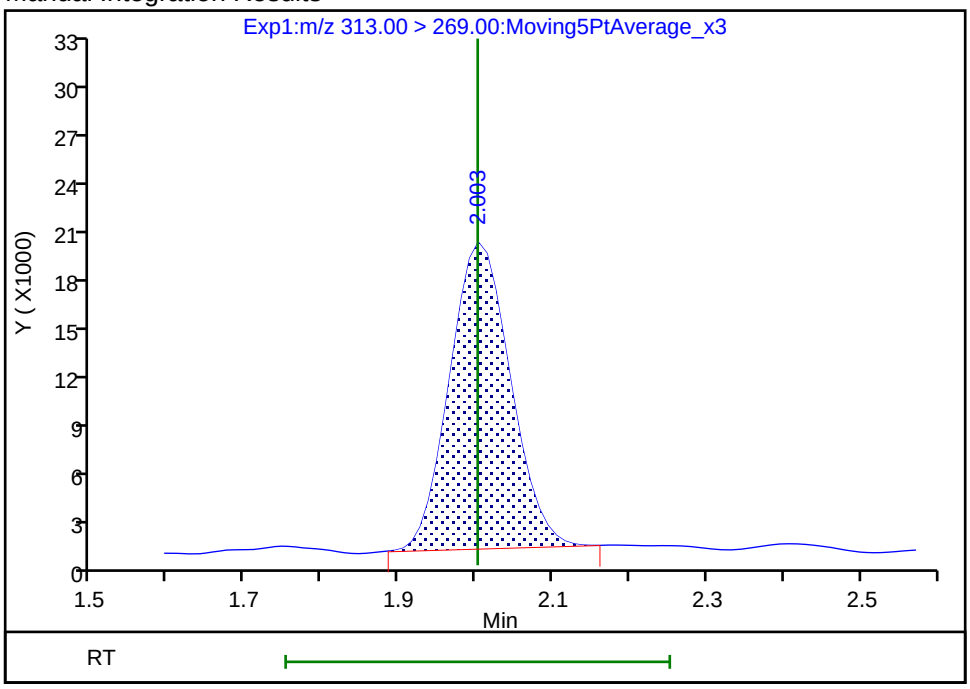
Processing Integration Results

RT: 2.00
Area: 109101
Amount: 0.054603
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 103001
Amount: 0.052004
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:03
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

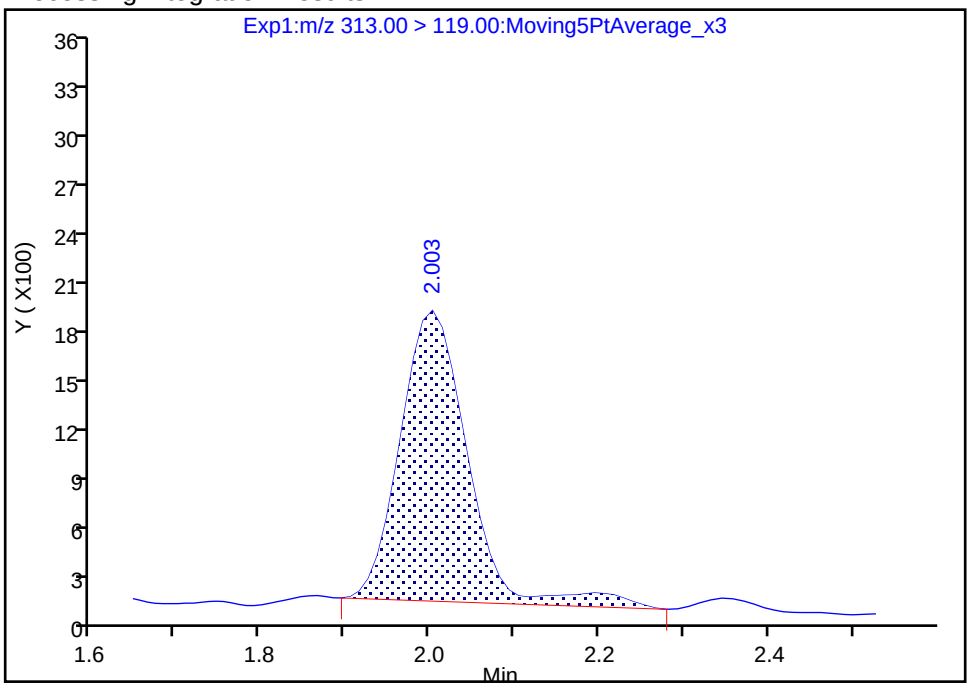
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

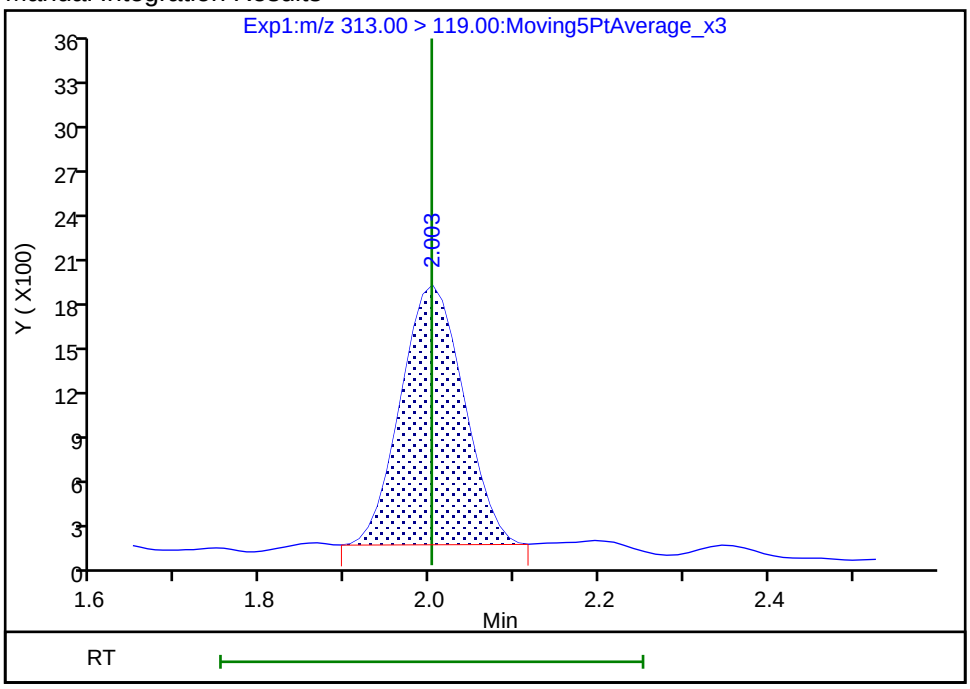
Processing Integration Results

RT: 2.00
Area: 9966
Amount: 0.054603
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 9150
Amount: 0.052004
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:08
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

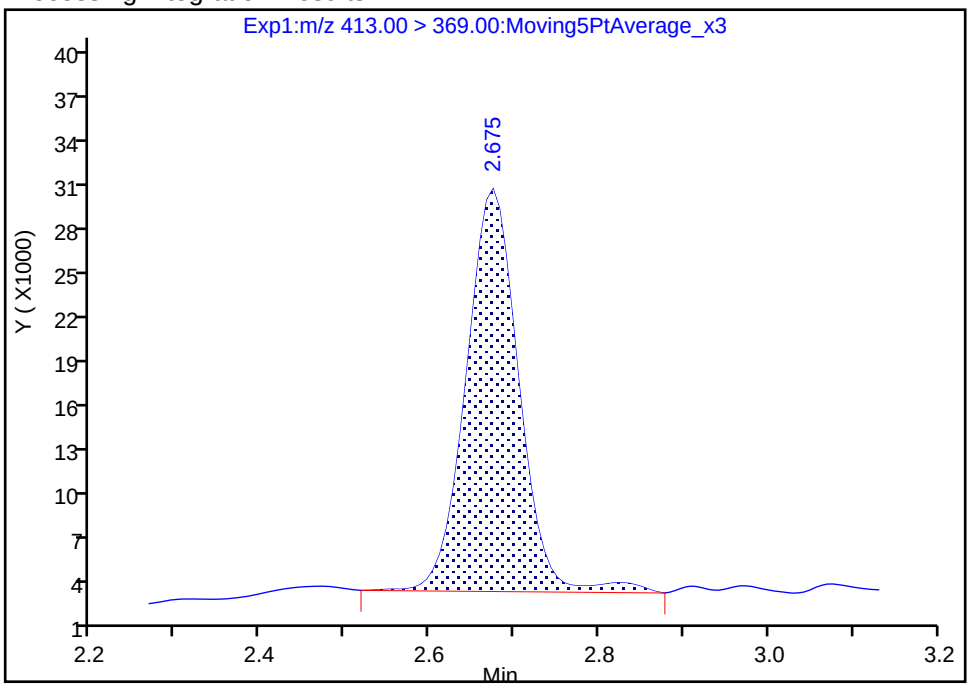
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

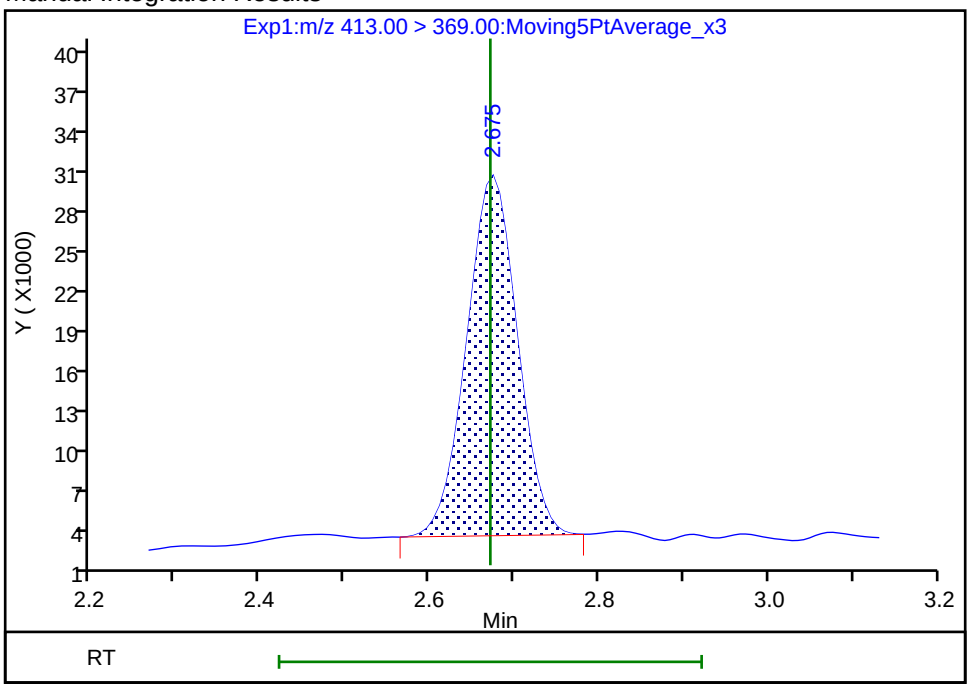
Processing Integration Results

RT: 2.67
Area: 116118
Amount: 0.055678
Amount Units: ng/ml



Manual Integration Results

RT: 2.67
Area: 110192
Amount: 0.053269
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:22
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

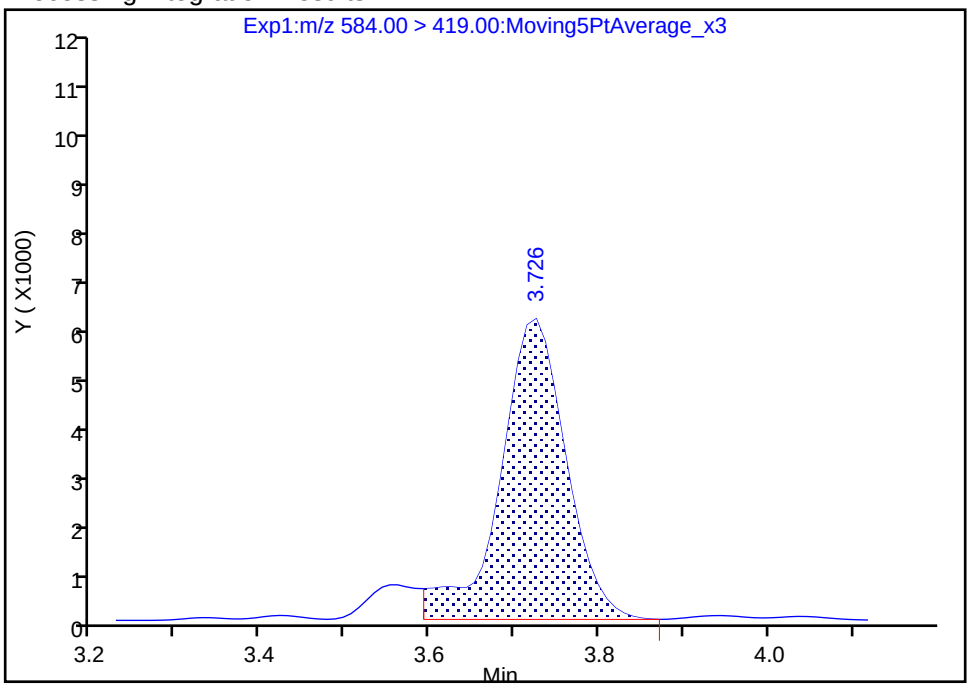
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_003.d
Injection Date: 05-Jul-2018 08:59:11 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

33 N-ethyl perfluorooctane sulfonamidoacetic ac, CAS: 2991-50-6

Signal: 1

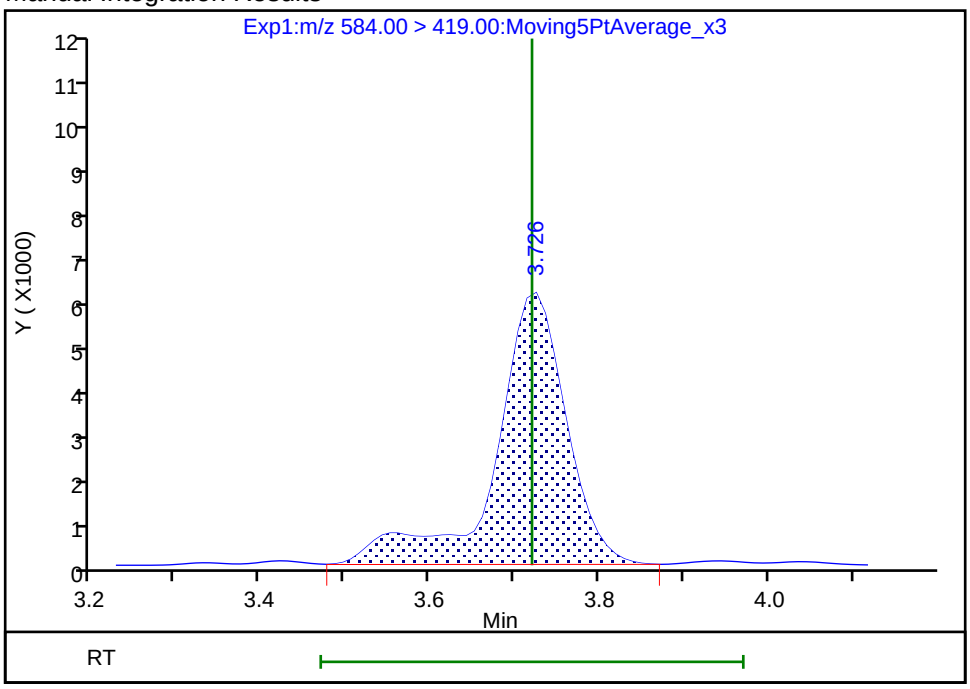
Processing Integration Results

RT: 3.73
Area: 32013
Amount: 0.046711
Amount Units: ng/ml



Manual Integration Results

RT: 3.73
Area: 34849
Amount: 0.050255
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:09:50
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 05-Jul-2018 09:07:00 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:53 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:11:29

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.536	6069593	2.41		96.3	24438	
2 Perfluorobutyric acid										
212.90 > 169.00	1.436	1.434	0.002	1.004	597465	0.2409		96.4	221	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.716	-0.004	0.641	4600846	2.47		98.7	43321	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.721	1.719	0.002	1.005	519574	0.2371		94.8	386	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.756	0.001	0.658	101856	2.28		98.2	810	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.760	-0.003	1.000	743977	0.2240		101	4703	
298.90 > 99.00	1.757	1.760	-0.003	1.000	303027		2.46(1.25-3.74)	101	3833	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.966	-0.006	0.735	674185	2.35		101	8177	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.966	-0.006	1.116	147699	0.2150		92.1	8768	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	2.000	0.004	0.751	4899406	2.45		98.2	58275	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.004	2.002	0.002	1.000	466101	0.2336		93.4	925	
313.00 > 119.00	2.004	2.002	0.002	1.000	41725		11.17(5.03-15.10)	93.4	742	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.025	0.002	1.154	681882	0.2400		102	7541	
349.00 > 99.00	2.027	2.025	0.002	1.154	244725		2.79(1.36-4.07)	102	3947	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.785	458876	2.80		112	8477	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.099	-0.004	1.000	85883	0.2035		81.4	522	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.320	2.318	0.002	1.000	503626	0.2633		105	702	
363.00 > 169.00	2.320	2.318	0.002	1.000	177225		2.84(1.13-3.40)	105	1367	
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.318	0.002	0.870	4232132	2.39		95.5	50954	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.331	0.003	1.000	533777	0.2173		95.5	4053	
399.00 > 99.00	2.334	2.331	0.003	1.000	181606		2.94(1.50-4.49)	95.5	1406	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.874	5023662	2.30		97.4	38540	
65 Adona										
377.00 > 251.00	2.360	2.365	-0.005	0.777	1446461	0.2412		102	14748	
377.00 > 85.00	2.360	2.365	-0.005	0.777	843467		1.71(0.84-2.53)	102	11221	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.645	0.0	1.000	137712	0.2245		94.7	1060	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	929925	2.34		98.4	18344	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.670	-0.002	1.000	4350463	2.51		100	30312	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.671	-0.003	1.000	485826	0.2354		94.1	181	
413.00 > 169.00	2.668	2.671	-0.003	1.000	257288		1.89(0.84-2.52)	94.1	1573	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.671	-0.003		4551332	2.50			32491	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.676	2.678	-0.002	0.881	493106	0.2276		95.6	6702	
449.00 > 99.00	2.676	2.678	-0.002	0.881	133314		3.70(1.94-5.82)	95.6	3279	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.037	3.034	0.003	1.000	399282	0.2113		91.1	3863	M
499.00 > 99.00	3.037	3.034	0.003	1.000	97810		4.08(2.31-6.93)	91.1	2444	
D 19 13C5 PFNA										
468.00 > 423.00	3.037	3.034	0.003	1.138	3821005	2.59		104	43419	
D 18 13C4 PFOS										
503.00 > 80.00	3.037	3.034	0.003	1.138	3866373	2.48		104	37611	
20 Perfluorononanoic acid										
463.00 > 419.00	3.037	3.036	0.001	1.000	385530	0.2341		93.6	814	
463.00 > 169.00	3.037	3.036	0.001	1.000	94653		4.07(1.90-5.69)	93.6	2793	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.246	3.246	0.0	1.069	676150	0.2211		94.9	12683	
D 21 13C8 FOSA										
506.00 > 78.00	3.359	3.357	0.002	1.259	5465004	2.53		101	48663	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.359	3.358	0.001	1.000	543453	0.2507		100	12552	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.378	3.379	-0.001	1.112	305446	0.2323		96.8	5885	
549.00 > 99.00	3.378	3.379	-0.001	1.112	117853		2.59(1.33-3.97)	96.8	2241	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.378	3.382	-0.004	1.266	1048384	2.37		98.9	11749	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.387	3.383	0.004	1.003	137343	0.2375		99.2	3786	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.396	3.393	0.003	1.000	336739	0.2521		101	1182	
513.00 > 169.00	3.396	3.393	0.003	1.000	58028		5.80(2.36-7.09)	101	1846	
D 23 13C2 PFDA										
515.00 > 470.00	3.396	3.393	0.003	1.273	3204267	2.52		101	40323	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.546	3.543	0.003	1.329	1813682	2.42		96.7	30499	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.555	3.551	0.004	1.003	180847	0.2422		96.9	1615	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.707	3.702	0.005	1.221	266826	0.2292		95.1	6930	
599.00 > 99.00	3.707	3.702	0.005	1.221	86337		3.09(1.39-4.16)	95.1	4457	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.717	3.713	0.004	1.393	1875737	2.53		101	15918	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.728	3.721	0.007	1.003	207861	0.2269		90.8	745	
563.00 > 169.00	3.728	3.721	0.007	1.003	57585		3.61(2.12-6.36)	90.8	1966	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.717	3.721	-0.004	1.000	161316	0.2385		95.4	4318	
D 30 13C2 PFUnA										
565.00 > 520.00	3.717	3.721	-0.004	1.393	2693673	2.52		101	39348	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.884	3.879	0.005	1.279	1078557	0.2312		98.2	14180	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.017	4.016	0.001	1.000	308907	0.2462		98.5	323	
613.00 > 169.00	4.017	4.016	0.001	1.000	72977		4.23(2.13-6.40)	98.5	1424	
D 36 13C2 PFDoA										
615.00 > 570.00	4.017	4.016	0.001	1.505	2846137	2.48		99.4	15125	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.289	4.284	0.005	1.068	343817	0.2460		98.4	392	
663.00 > 169.00	4.280	4.284	-0.004	1.065	115023		2.99(1.25-3.76)	98.4	1894	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.520	4.524	-0.004	1.694	3422283	2.45		98.0	13893	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.520	4.524	-0.004	1.000	88194	0.2379		95.2	1314	
713.00 > 219.00	4.520	4.524	-0.004	1.000	64187		1.37(0.71-2.13)	95.2	1692	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.938	4.940	-0.002	1.851	6313503	2.44		97.7	13139	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.947	4.941	0.006	1.002	659470	0.2520		101	288	
813.00 > 169.00	4.947	4.941	0.006	1.002	110301		5.98(2.86-8.58)	101	906	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.305	5.302	0.003	1.074	714501	0.2430		97.2	231	
913.00 > 169.00	5.305	5.302	0.003	1.074	90949		7.86(3.83-11.48)	97.2	1008	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:55 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d

Injection Date: 05-Jul-2018 09:07:00 Instrument ID: A8_N

Lims ID: IC L3 Full

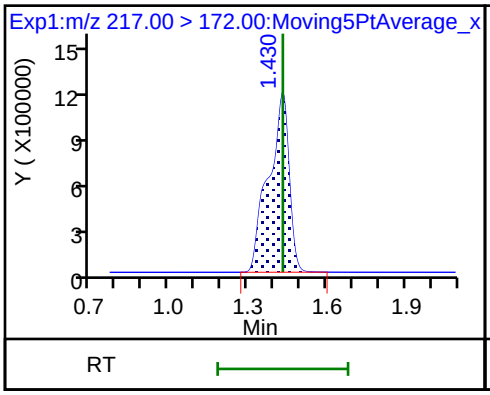
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

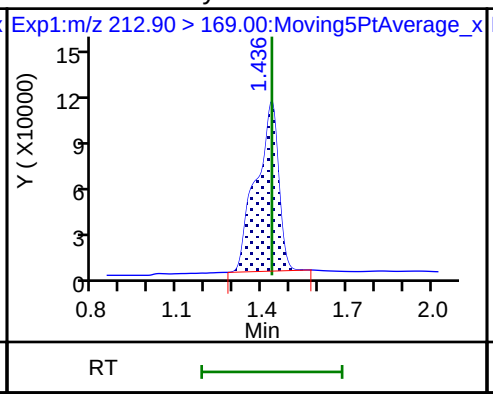
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

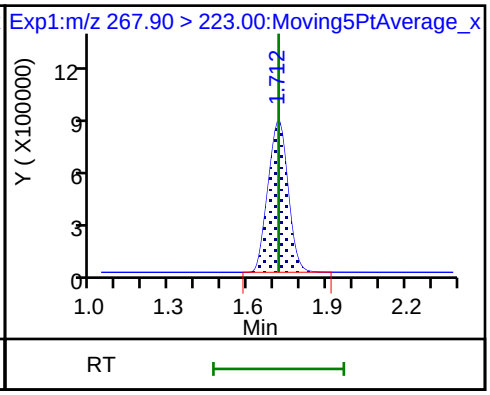
D 1 13C4 PFBA



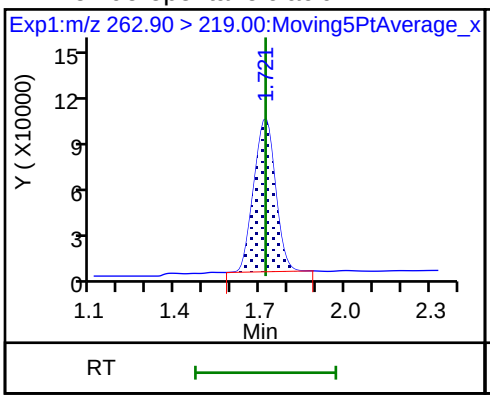
2 Perfluorobutyric acid



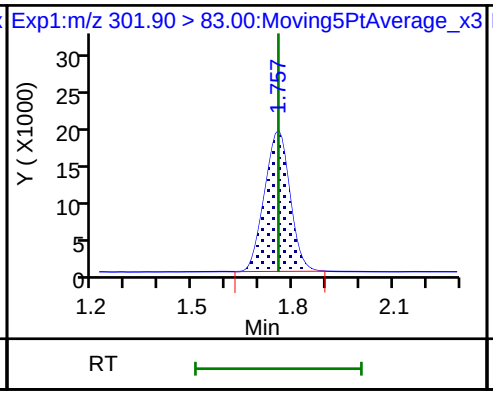
D 3 13C5-PFPeA



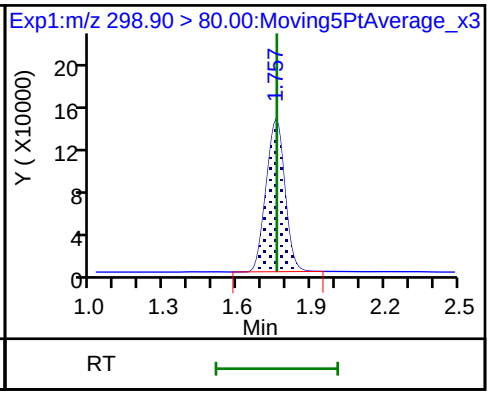
4 Perfluoropentanoic acid



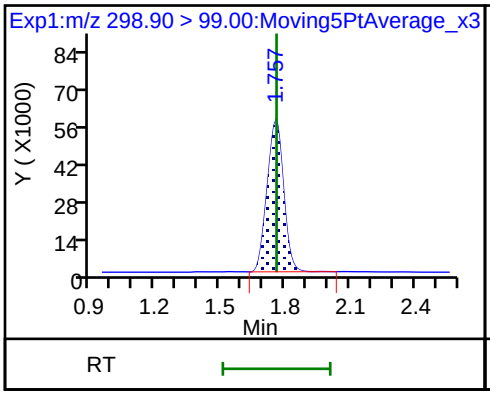
D 47 13C3-PFBS



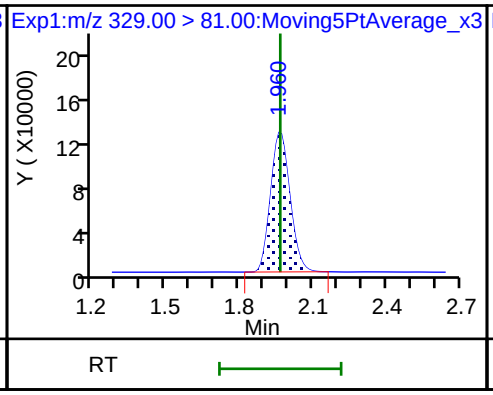
5 Perfluorobutanesulfonic acid



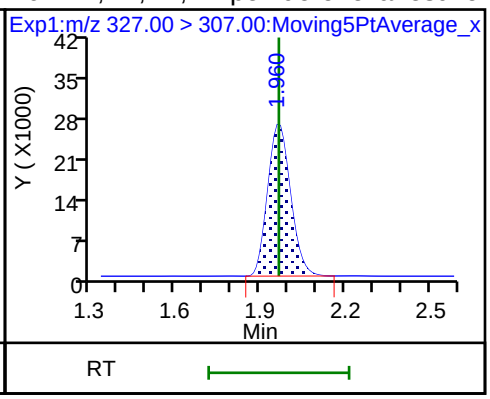
5 Perfluorobutanesulfonic acid



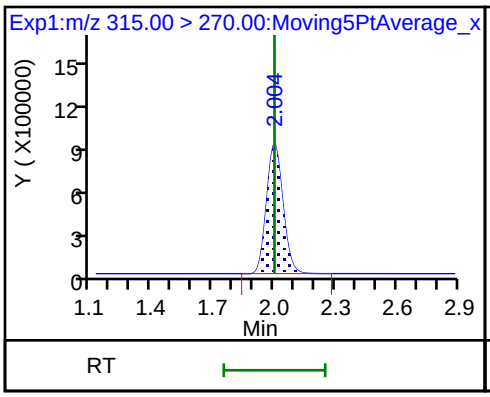
D 60 M2-4:2FTS



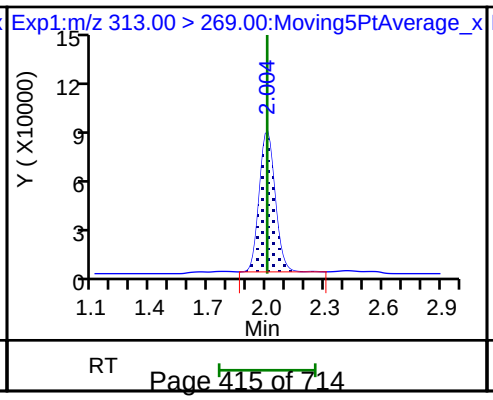
61 1H,1H,2H,2H-perfluorohexanesulfoni



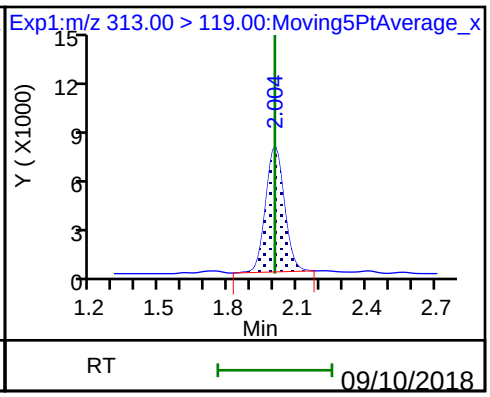
D 7 13C2 PFHxA



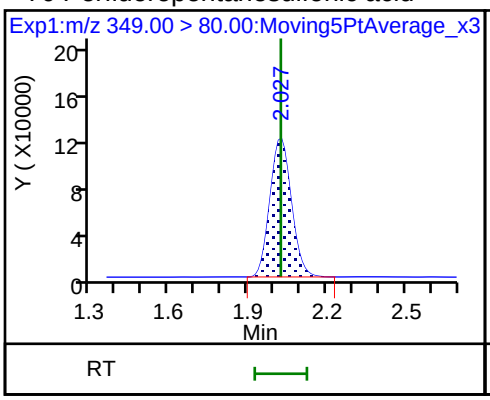
6 Perfluorohexanoic acid



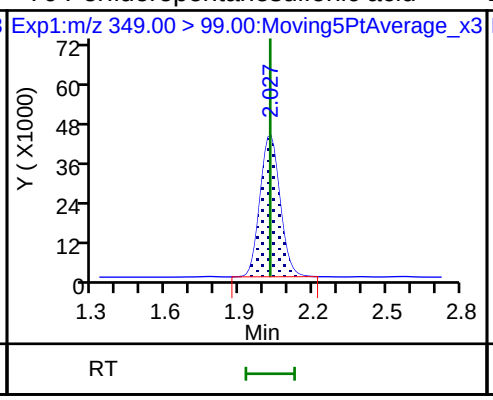
6 Perfluorohexanoic acid



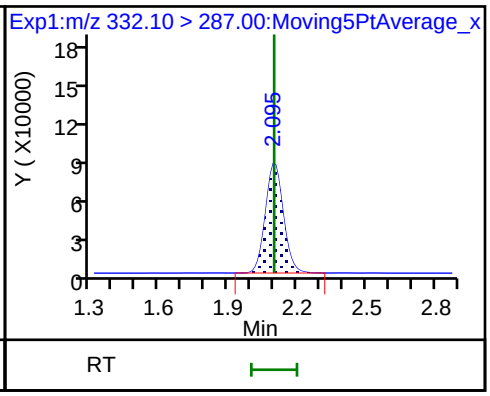
70 Perfluoropentanesulfonic acid



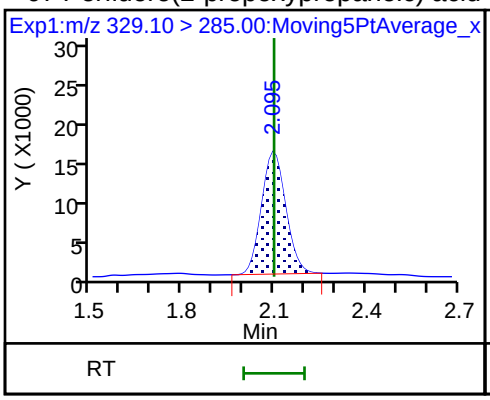
70 Perfluoropentanesulfonic acid



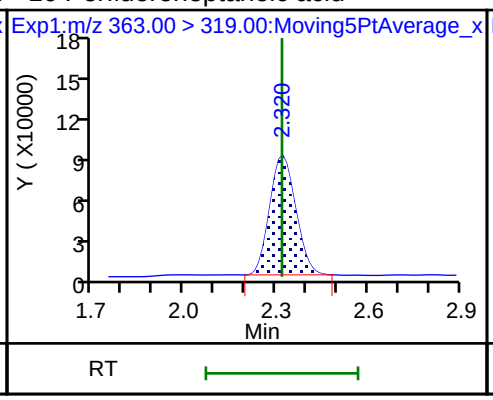
D 64 13C3 HFPO-DA



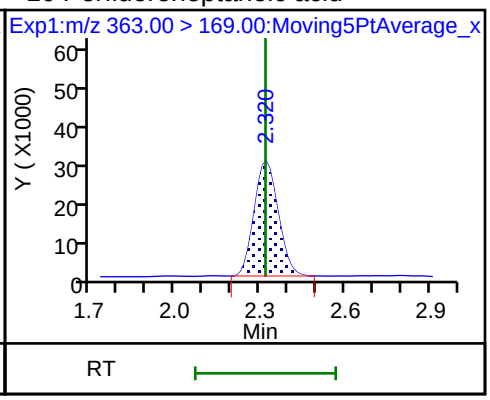
67 Perfluoro(2-propoxypropanoic) acid



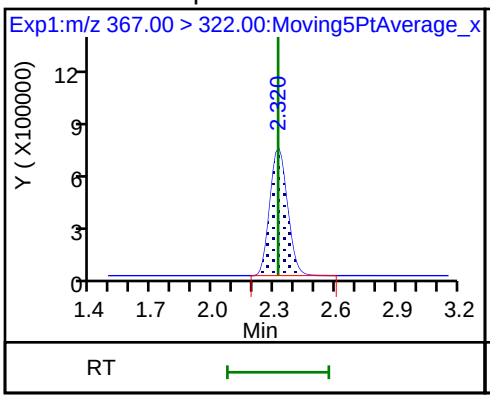
10 Perfluoroheptanoic acid



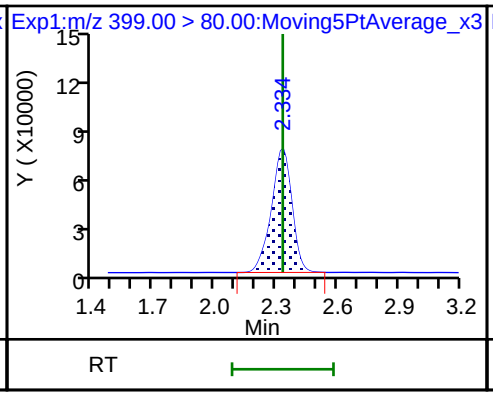
10 Perfluoroheptanoic acid



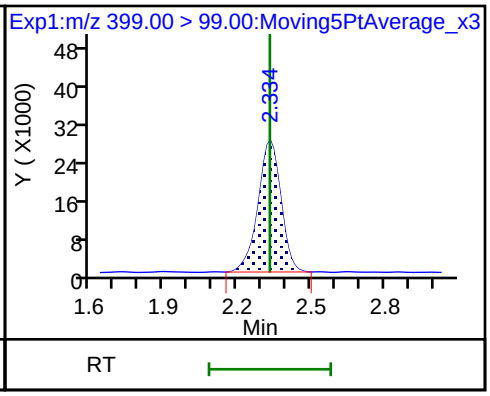
D 9 13C4-PFHpA



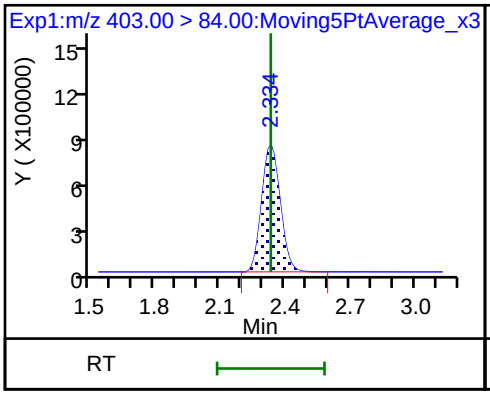
8 Perfluorohexanesulfonic acid



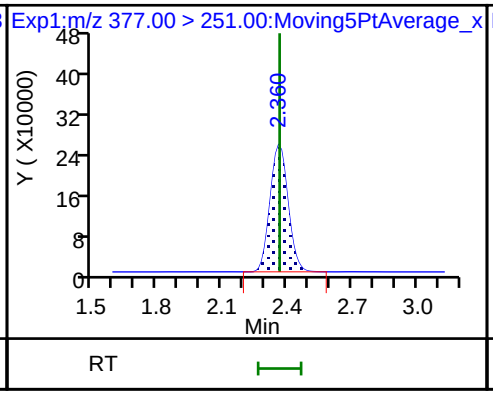
8 Perfluorohexanesulfonic acid



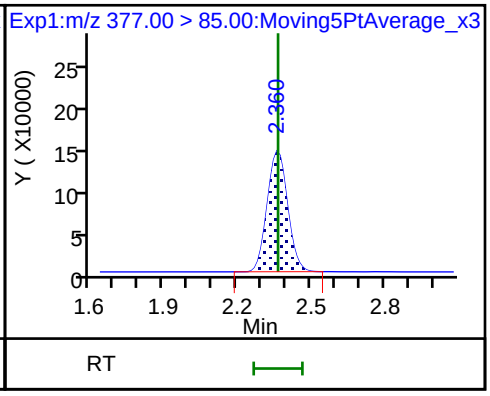
D 11 18O2 PFHxS



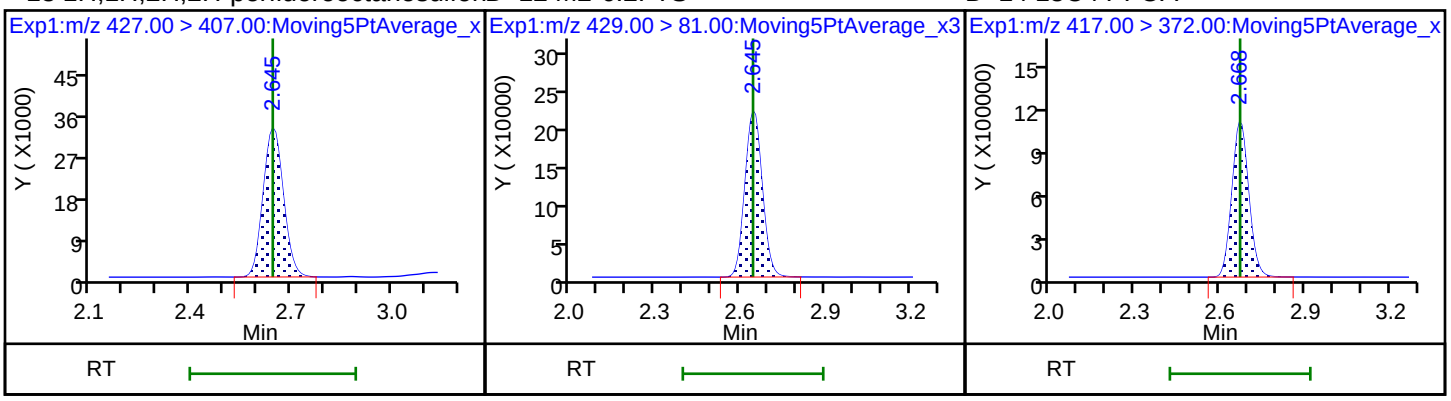
65 Adona



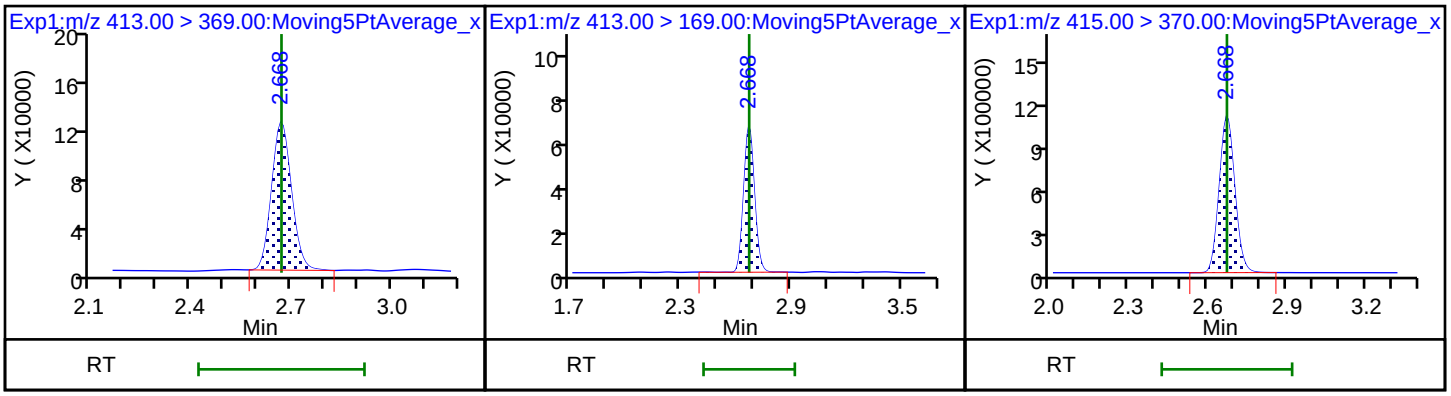
65 Adona



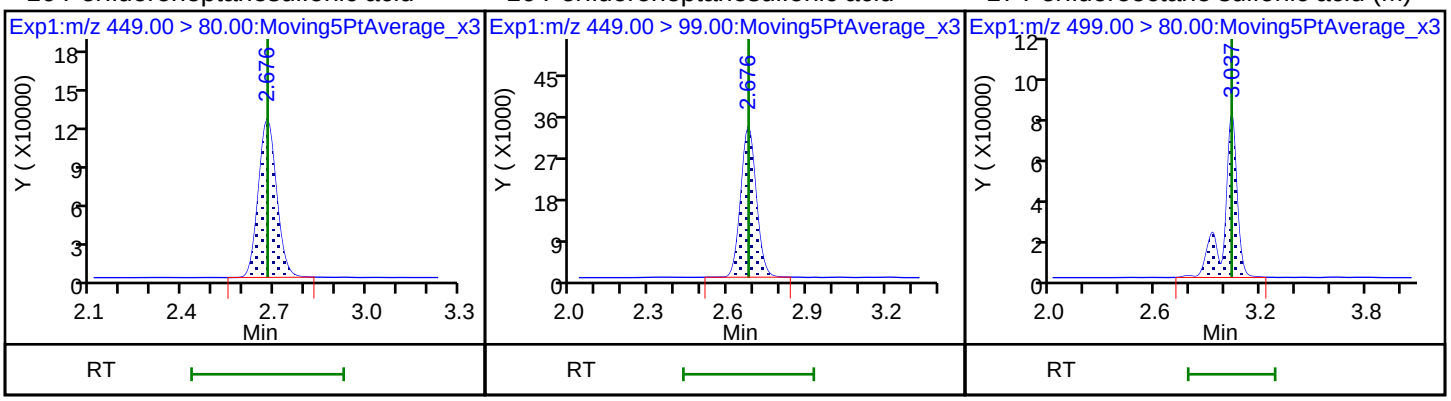
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



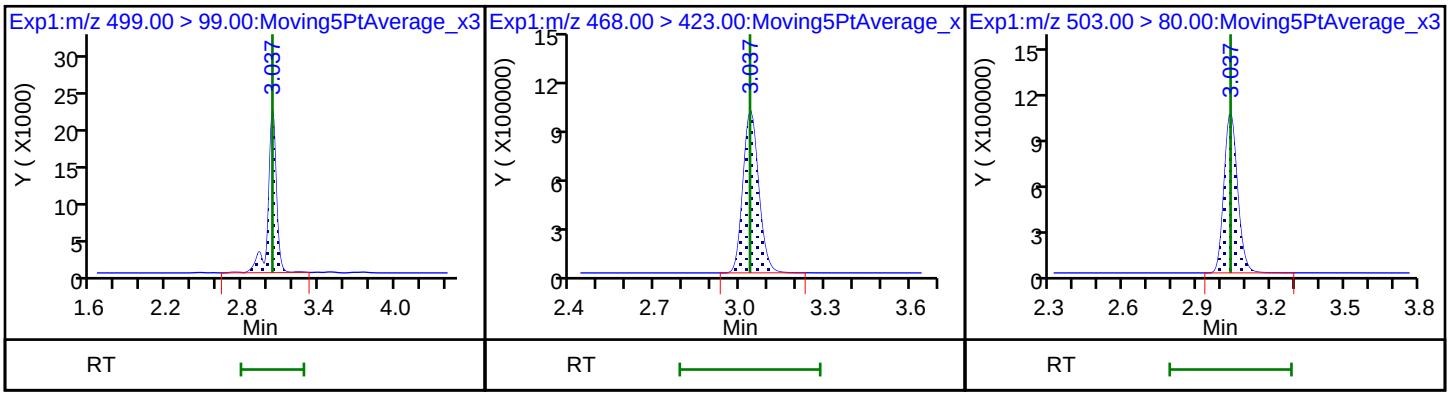
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



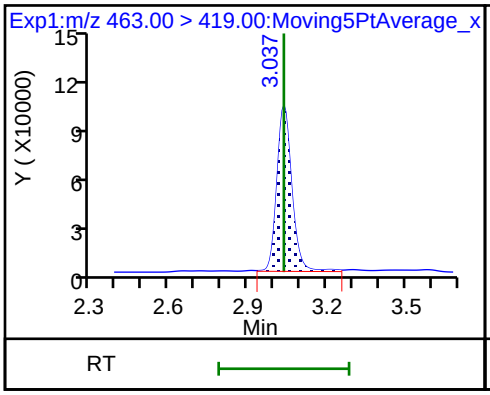
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid (M)



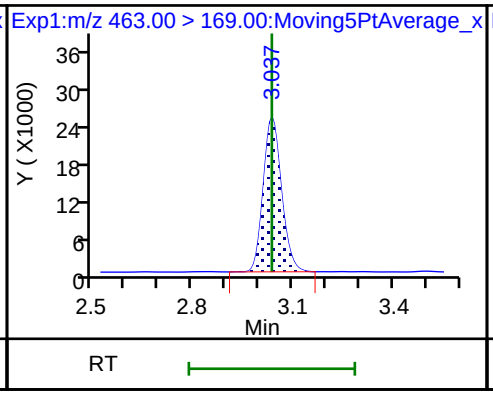
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



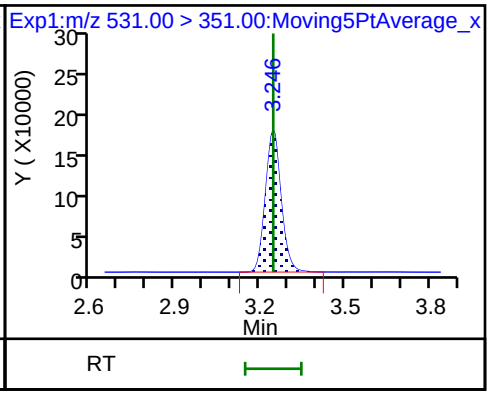
20 Perfluorononanoic acid



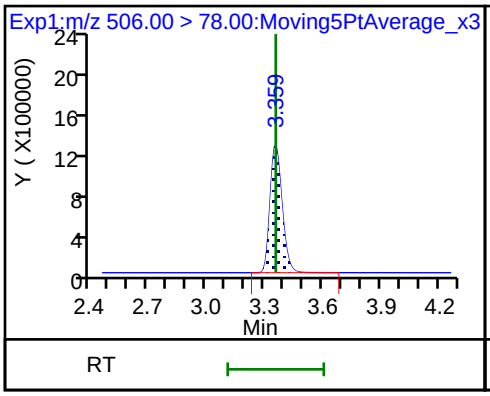
20 Perfluorononanoic acid



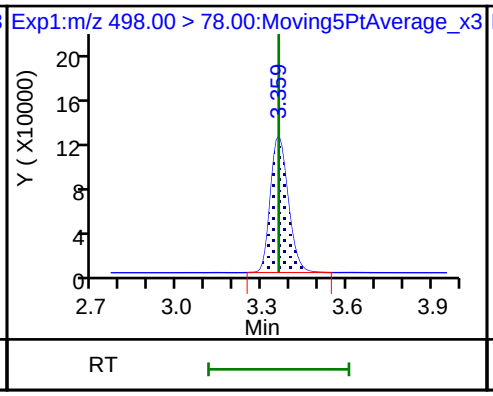
69 9-Chlorohexadecafluoro-3-oxanonane



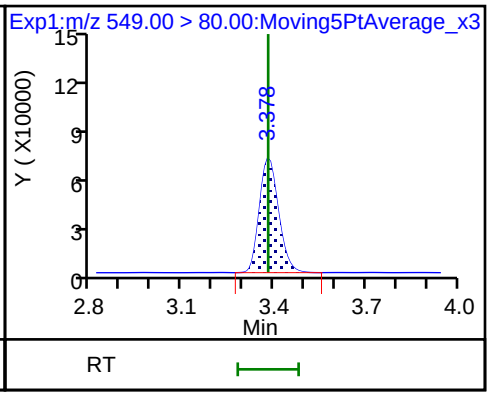
D 21 13C8 FOSA



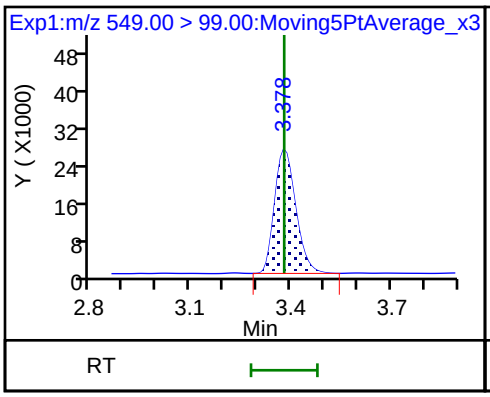
22 Perfluorooctane Sulfonamide



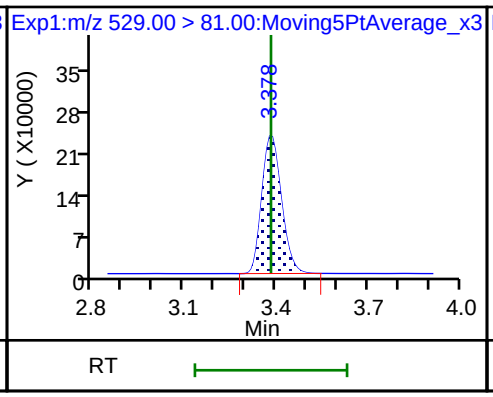
68 Perfluorononanesulfonic acid



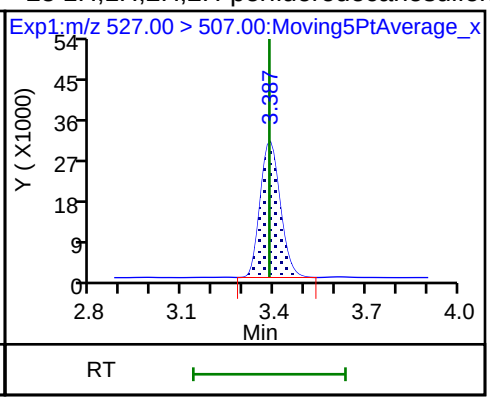
68 Perfluorononanesulfonic acid



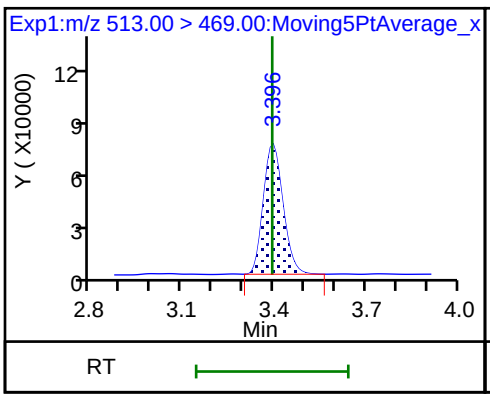
D 26 M2-8:2FTS



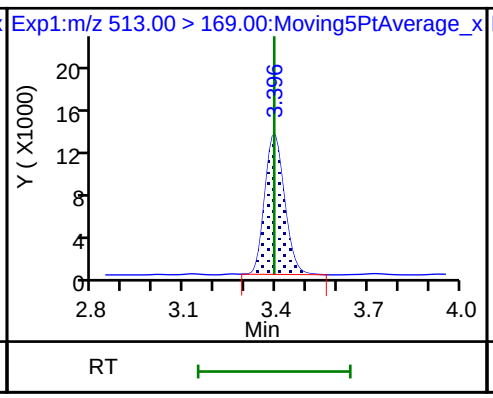
25 1H,1H,2H,2H-perfluorodecanesulfoni



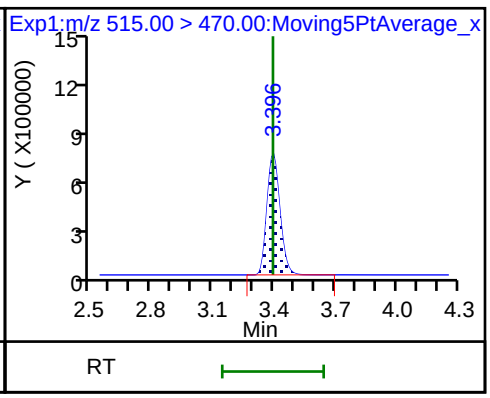
24 Perfluorodecanoic acid



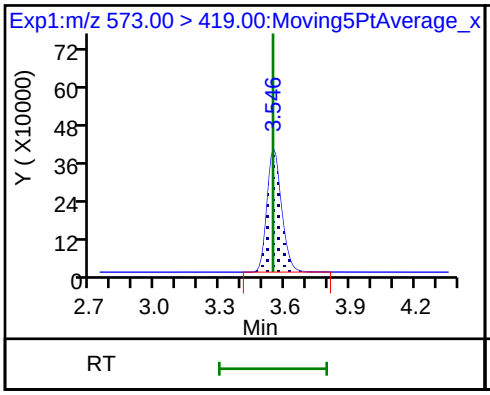
24 Perfluorodecanoic acid



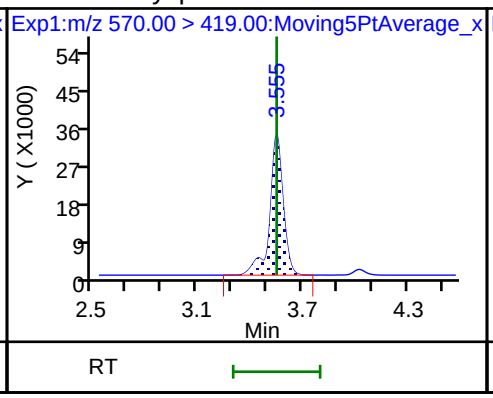
D 23 13C2 PFDA



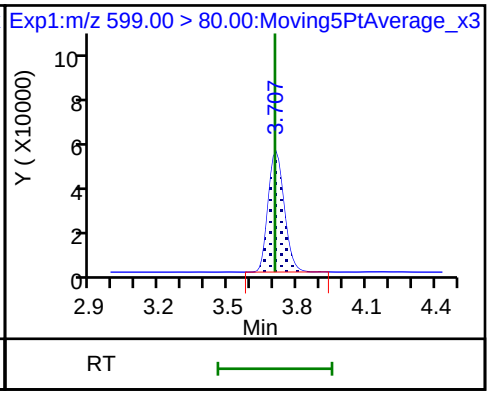
D 27 d3-NMeFOSAA



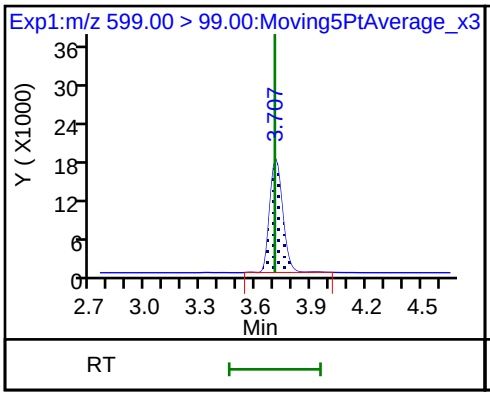
28 N-methyl perfluorooctane sulfonami



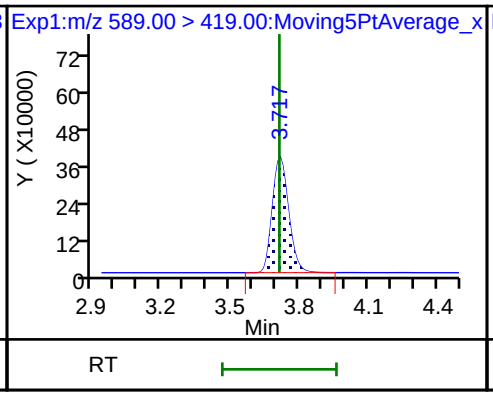
29 Perfluorodecane Sulfonic acid



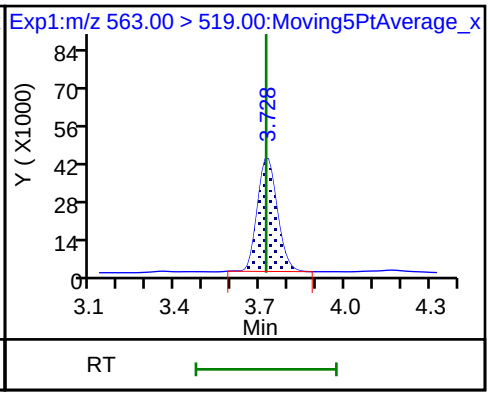
29 Perfluorodecane Sulfonic acid



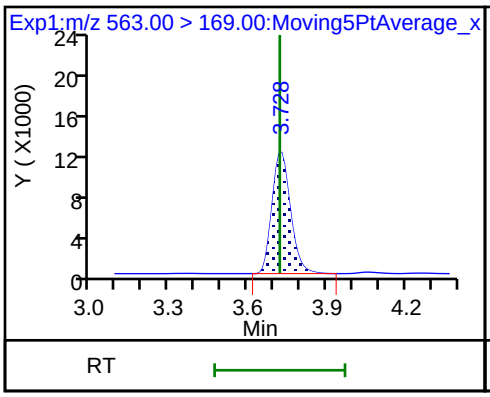
D 32 d5-NEtFOSAA



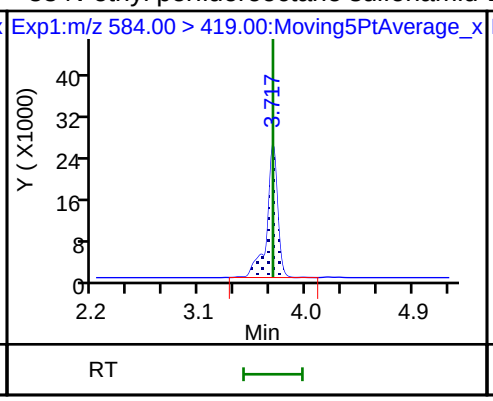
31 Perfluoroundecanoic acid



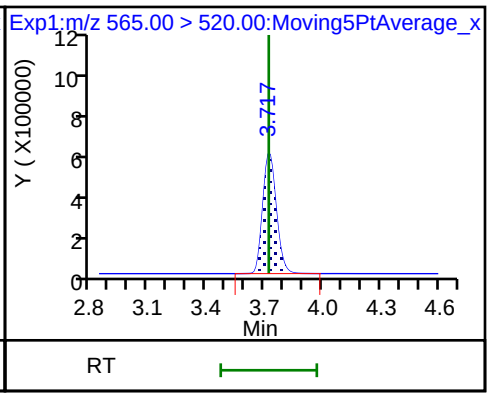
31 Perfluoroundecanoic acid



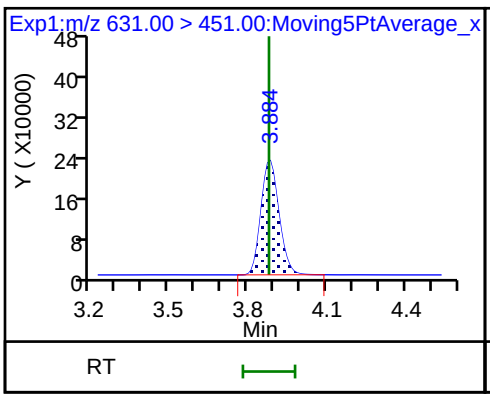
33 N-ethyl perfluorooctane sulfonamid



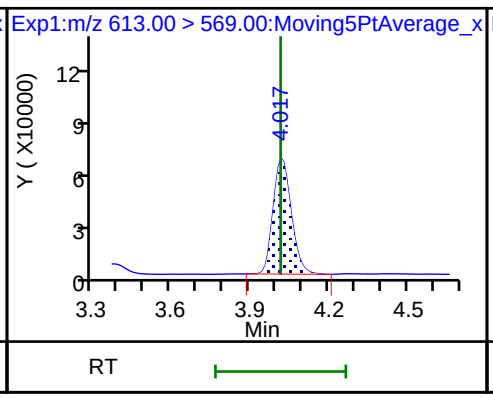
D 30 13C2 PFUnA



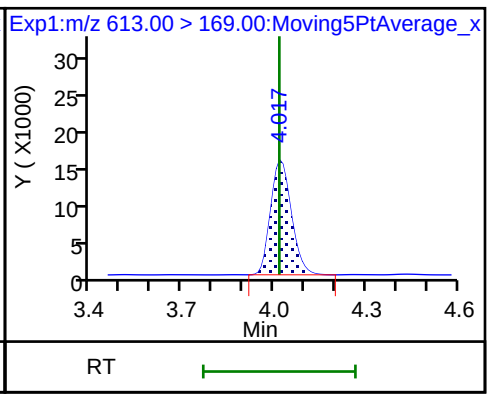
66 11-Chloroeicosafluoro-3-oxaundecan



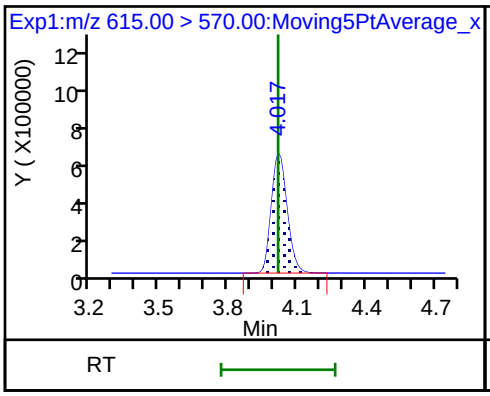
37 Perfluorododecanoic acid



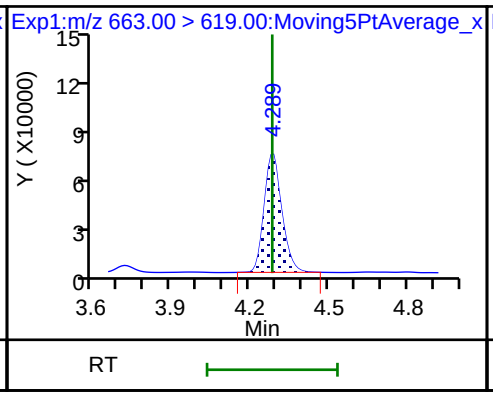
37 Perfluorododecanoic acid



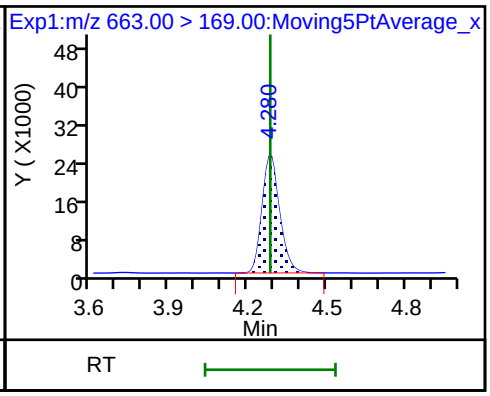
D 36 13C2 PFDoA



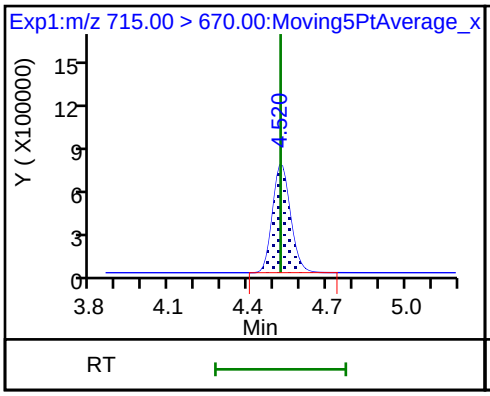
41 Perfluorotridecanoic acid



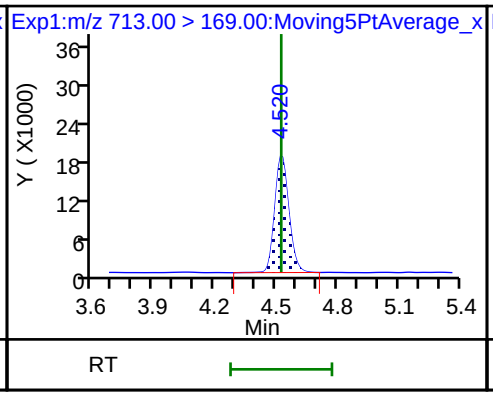
41 Perfluorotridecanoic acid



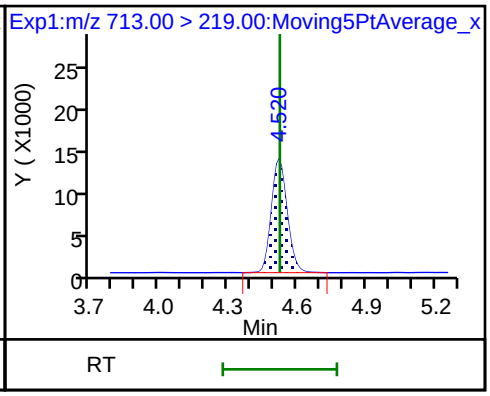
D 43 13C2-PFTeDA



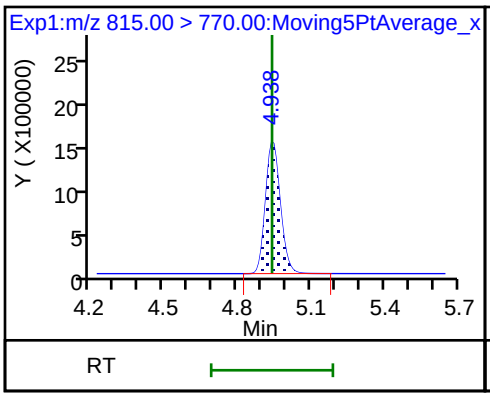
42 Perfluorotetradecanoic acid



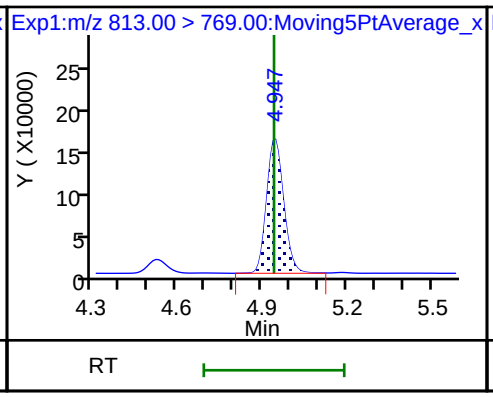
42 Perfluorotetradecanoic acid



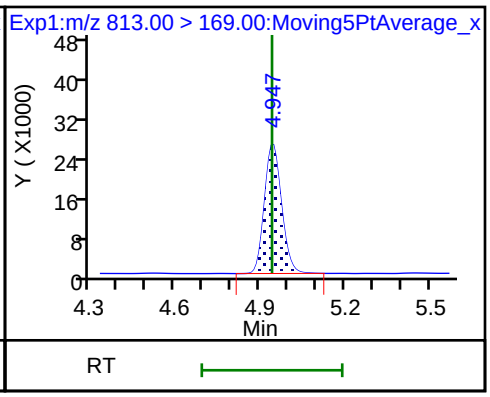
D 44 13C2-PFHxDA



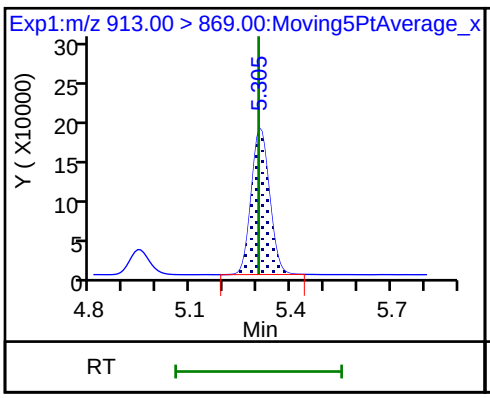
45 Perfluorohexadecanoic acid



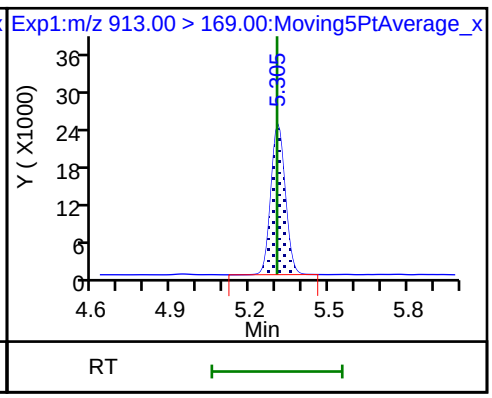
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

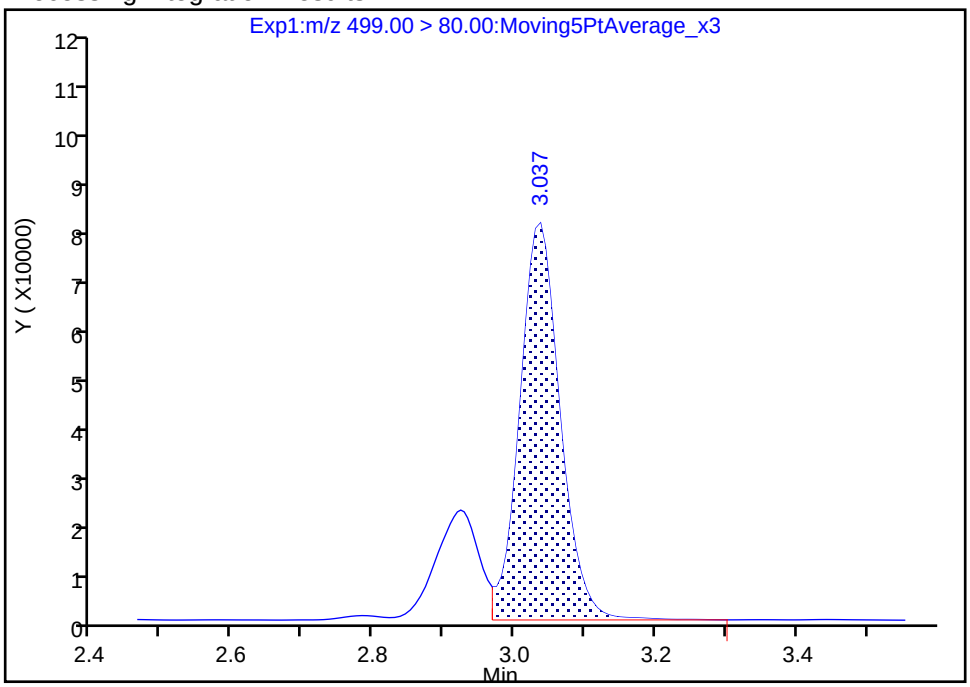
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_004.d
Injection Date: 05-Jul-2018 09:07:00 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

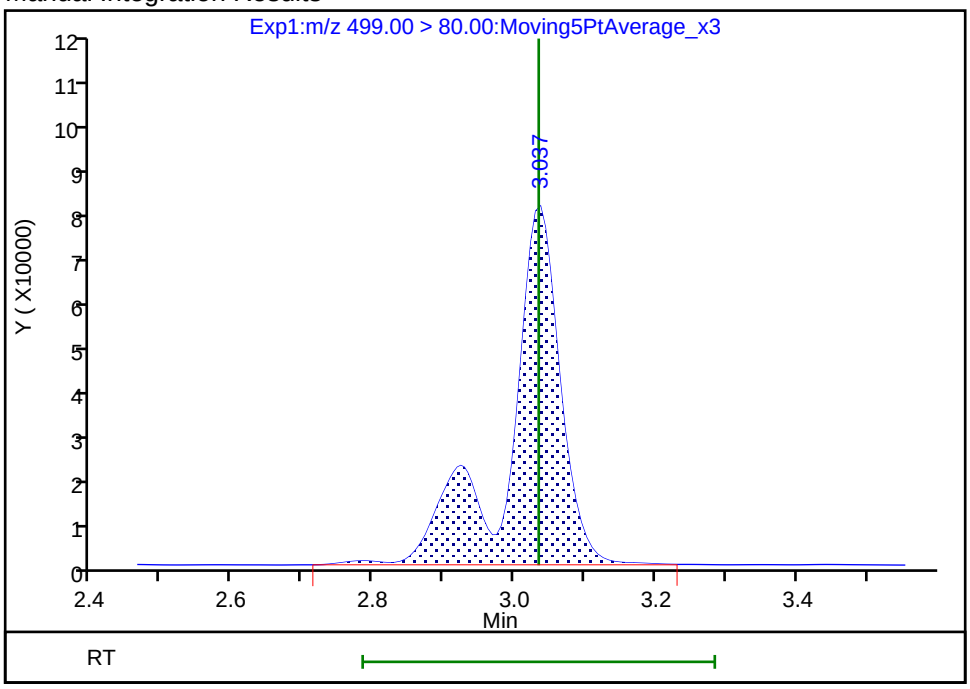
Processing Integration Results

RT: 3.04
Area: 306452
Amount: 0.172815
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 399282
Amount: 0.211296
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:10:40
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 05-Jul-2018 09:14:49 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:38:57 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:12:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.536	6162858	2.50		100	25458	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	2411886	0.9579		95.8	956	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.642	4603081	2.52		101	48086	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.725	1.719	0.006	1.005	2123200	0.9683		96.8	1472	
D 47 13C3-PFBS										
301.90 > 83.00	1.761	1.756	0.005	0.659	99704	2.28		98.3	811	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.000	2913073	0.8961		101	15641	
298.90 > 99.00	1.761	1.760	0.001	1.000	1199095		2.43(1.25-3.74)	101	12545	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.736	650969	2.32		99.4	7391	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.117	666805	0.99		106	29931	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.748	4790767	2.45		98.1	53217	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.002	0.009	1.006	1929591	0.9889		98.9	3402	
313.00 > 119.00	2.011	2.002	0.009	1.006	182684		10.56(5.03-15.10)	98.9	3630	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.033	2.025	0.008	1.154	2665768	0.9586		102	25939	
349.00 > 99.00	2.022	2.025	-0.003	1.148	967302		2.76(1.36-4.07)	102	15505	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.786	350748	2.19		87.7	6930	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	362111	1.12		112	2325	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.318	0.010	1.000	1926316	0.9529		95.3	2437	
363.00 > 169.00	2.329	2.318	0.010	1.000	763753		2.52(1.13-3.40)	95.3	4932	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.318	0.010	0.871	4473611	2.58		103	32752	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.342	2.331	0.011	1.000	2134265	0.8488		93.3	10378	
399.00 > 99.00	2.342	2.331	0.011	1.000	728591		2.93(1.50-4.49)	93.3	5501	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.333	0.009	0.876	5143052	2.41		102	45703	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.780	5921462	1.04		110	37185	
377.00 > 85.00	2.368	2.365	0.003	0.780	3421126		1.73(0.84-2.53)	110	33302	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.650	2.645	0.005	1.000	579722	0.9188		96.9	4365	
D 12 M2-6:2FTS										
429.00 > 81.00	2.650	2.645	0.005	0.992	956602	2.46		103	13564	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.670	0.003	1.000	4233363	2.49		99.7	44657	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.671	0.002	1.000	2047028	1.02		102	882	
413.00 > 169.00	2.673	2.671	0.002	1.000	1034448		1.98(0.84-2.52)	102	5173	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.671	0.002		4451960	2.50			28463	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.680	2.678	0.002	0.882	2001929	0.9719		102	17485	
449.00 > 99.00	2.680	2.678	0.002	0.882	513009		3.90(1.94-5.82)	102	10258	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.038	3.034	0.004	1.000	1620324	0.9020		97.2	9590	M
499.00 > 99.00	3.038	3.034	0.004	1.000	365112		4.44(2.31-6.93)	97.2	7492	
D 19 13C5 PFNA										
468.00 > 423.00	3.038	3.034	0.004	1.137	3628571	2.51		101	38018	
D 18 13C4 PFOS										
503.00 > 80.00	3.038	3.034	0.004	1.137	3675491	2.41		101	21579	
20 Perfluorononanoic acid										
463.00 > 419.00	3.038	3.036	0.002	1.000	1530697	0.9787		97.9	2765	
463.00 > 169.00	3.038	3.036	0.002	1.000	385539		3.97(1.90-5.69)	97.9	12335	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.246	0.001	1.069	2784556	0.9578		103	28106	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.357	0.004	1.257	5353484	2.53		101	38452	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.358	0.003	1.000	2119612	1.00		99.8	30500	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.380	3.379	0.001	1.113	1205401	0.9646		100	34326	
549.00 > 99.00	3.380	3.379	0.001	1.113	478001		2.52(1.33-3.97)	100	9888	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.389	3.382	0.007	1.268	1068438	2.47		103	23819	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.389	3.383	0.006	1.000	516484	0.8763		91.5	8828	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.398	3.393	0.005	1.000	1293758	0.9669		96.7	4885	
513.00 > 169.00	3.398	3.393	0.005	1.000	234842		5.51(2.36-7.09)	96.7	10444	
D 23 13C2 PFDA										
515.00 > 470.00	3.398	3.393	0.005	1.271	3209160	2.58		103	31420	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.548	3.543	0.005	1.327	1791176	2.44		97.7	24283	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.557	3.551	0.006	1.003	709542	0.9623		96.2	4838	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.709	3.702	0.007	1.221	1041333	0.9411		97.6	26968	
599.00 > 99.00	3.709	3.702	0.007	1.221	342058		3.04(1.39-4.16)	97.6	8945	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.719	3.713	0.006	1.391	1938000	2.67		107	10116	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.721	-0.002	1.000	836804	0.9601		96.0	3323	
563.00 > 169.00	3.719	3.721	-0.002	1.000	231655		3.61(2.12-6.36)	96.0	9431	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.721	-0.002	1.000	647181	0.9259		92.6	12308	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.721	-0.002	1.391	2563234	2.45		98.0	22804	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.877	3.879	-0.002	1.276	4506577	1.02		108	31369	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.020	4.016	0.004	1.000	1220093	0.9749		97.5	1361	
613.00 > 169.00	4.020	4.016	0.004	1.000	290513		4.20(2.13-6.40)	97.5	6141	
D 36 13C2 PFDoA										
615.00 > 570.00	4.020	4.016	0.004	1.504	2839357	2.53		101	13083	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.282	4.284	-0.002	1.065	1358716	0.9746		97.5	1492	
663.00 > 169.00	4.282	4.284	-0.002	1.065	413195		3.29(1.25-3.76)	97.5	5611	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.522	4.524	-0.002	1.692	3418156	2.50		100	13276	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.522	4.524	-0.002	1.000	342607	0.9254		92.5	5140	
713.00 > 219.00	4.522	4.524	-0.002	1.000	251296		1.36(0.71-2.13)	92.5	5866	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.940	0.0	1.848	6551380	2.59		104	12824	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.940	4.941	-0.001	1.000	2527986	0.99		99.3	1070	
813.00 > 169.00	4.940	4.941	-0.001	1.000	431678		5.86(2.86-8.58)	99.3	2973	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.300	5.302	-0.002	1.073	3031740	0.99		99.4	969	
913.00 > 169.00	5.300	5.302	-0.002	1.073	377149		8.04(3.83-11.48)	99.4	4016	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:38:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d

Injection Date: 05-Jul-2018 09:14:49 Instrument ID: A8_N

Lims ID: IC L4 Full

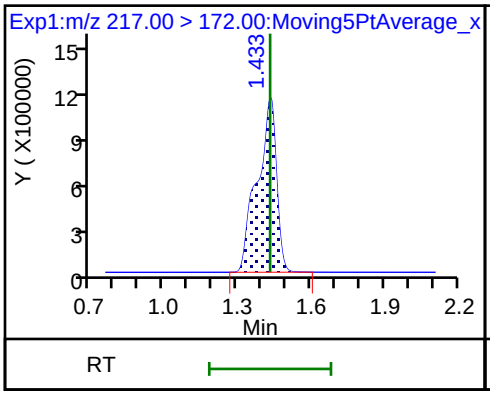
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

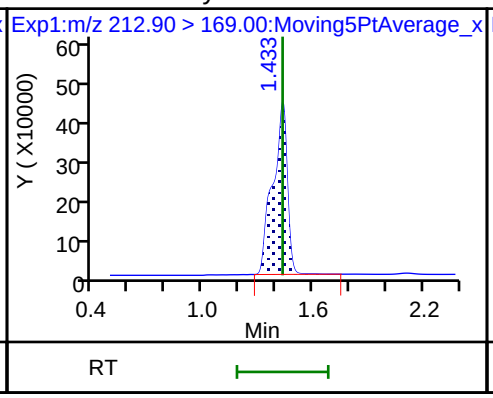
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

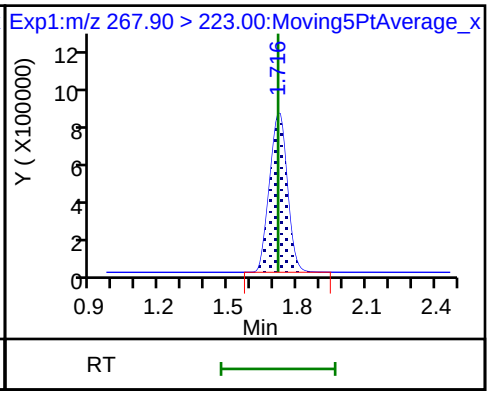
D 1 13C4 PFBA



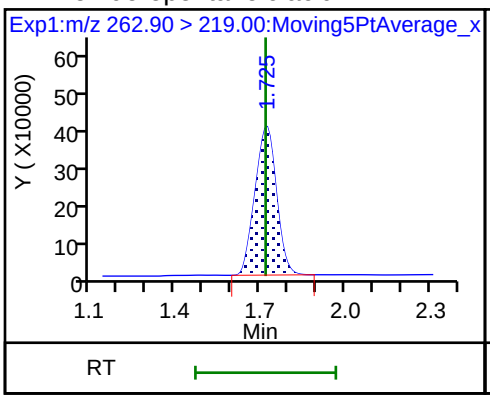
2 Perfluorobutyric acid



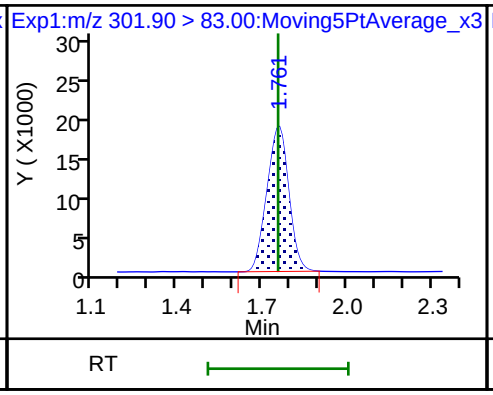
D 3 13C5-PFPeA



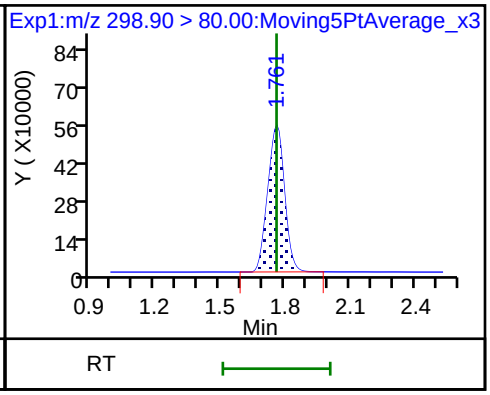
4 Perfluoropentanoic acid



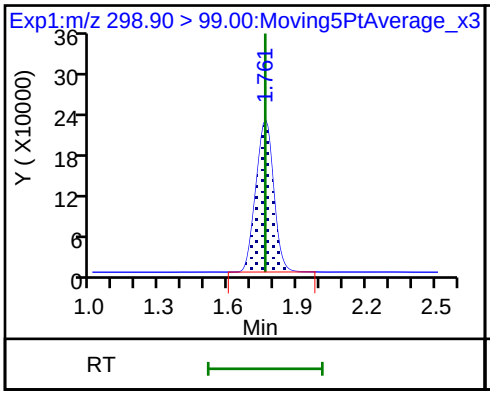
D 47 13C3-PFBS



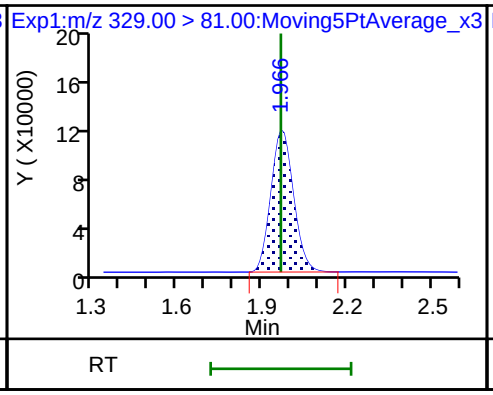
5 Perfluorobutanesulfonic acid



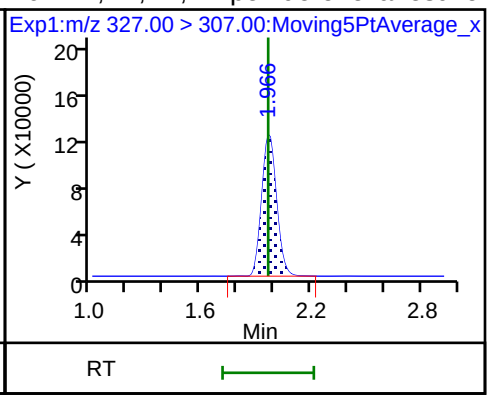
5 Perfluorobutanesulfonic acid



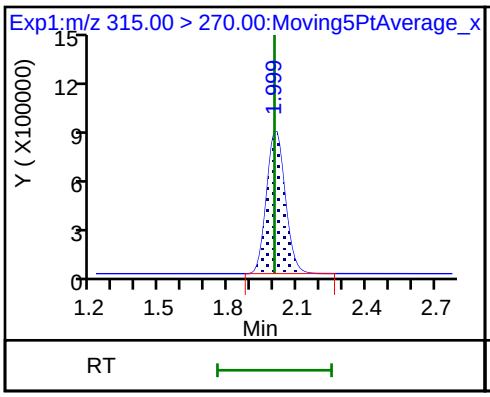
D 60 M2-4:2FTS



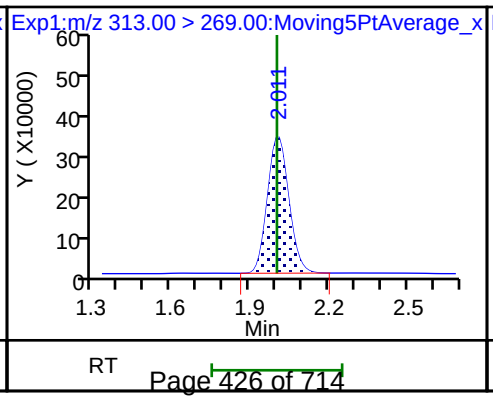
61 1H,1H,2H,2H-perfluorohexanesulfoni



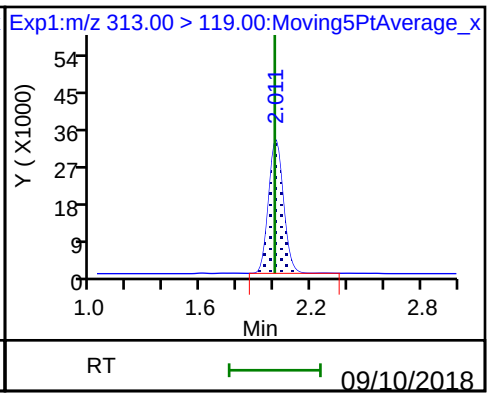
D 7 13C2 PFHxA



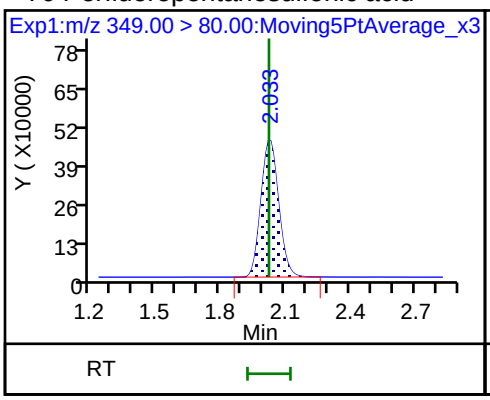
6 Perfluorohexanoic acid



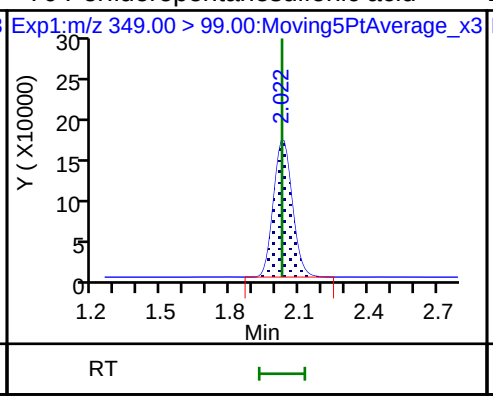
6 Perfluorohexanoic acid



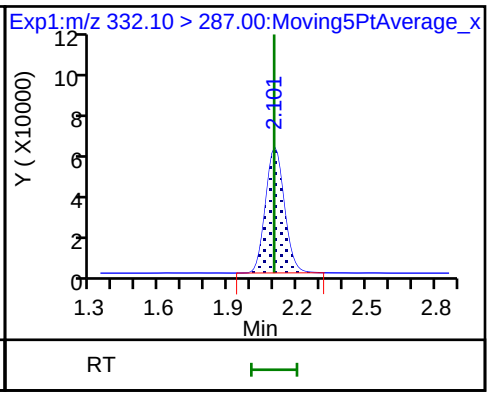
70 Perfluoropentanesulfonic acid



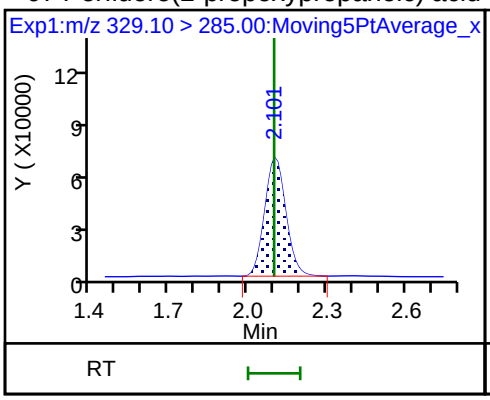
70 Perfluoropentanesulfonic acid



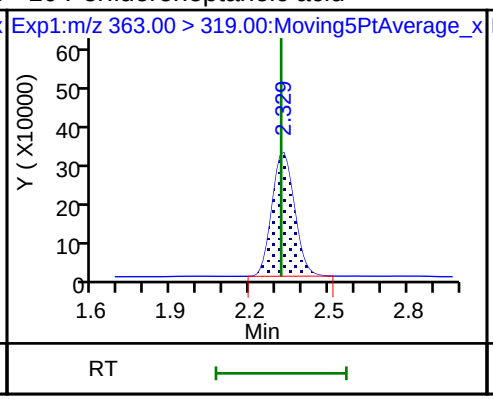
D 64 13C3 HFPO-DA



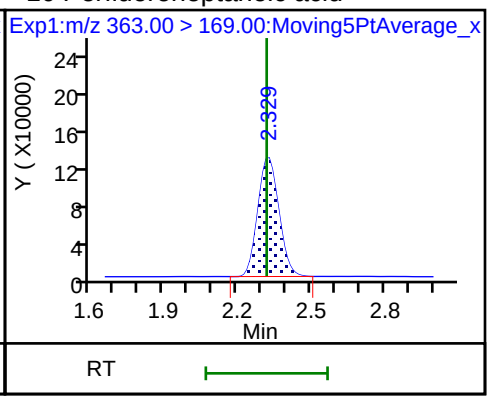
67 Perfluoro(2-propoxypropanoic) acid



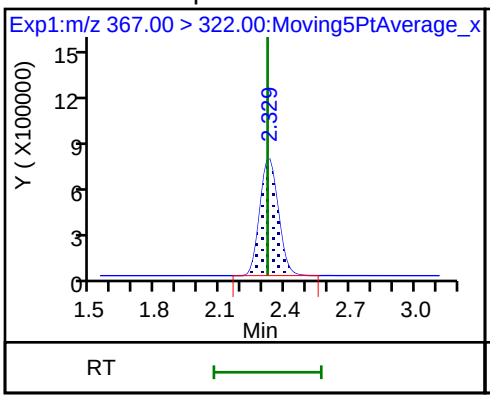
10 Perfluoroheptanoic acid



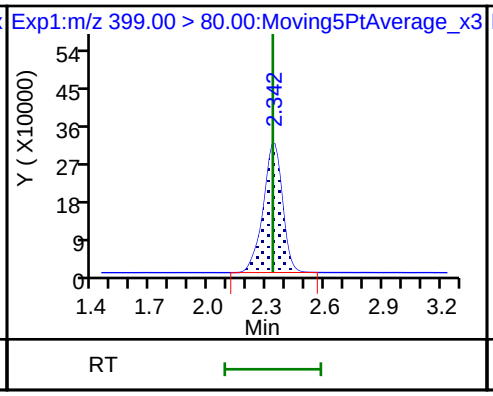
10 Perfluoroheptanoic acid



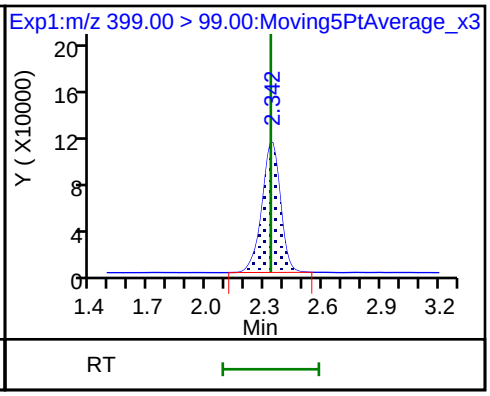
D 9 13C4-PFHpA



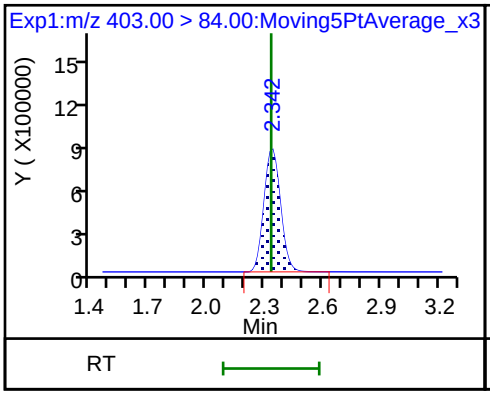
8 Perfluorohexanesulfonic acid



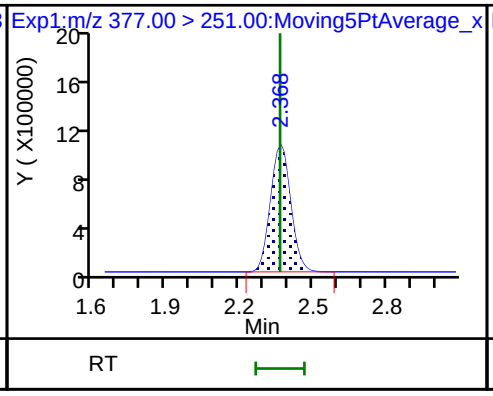
8 Perfluorohexanesulfonic acid



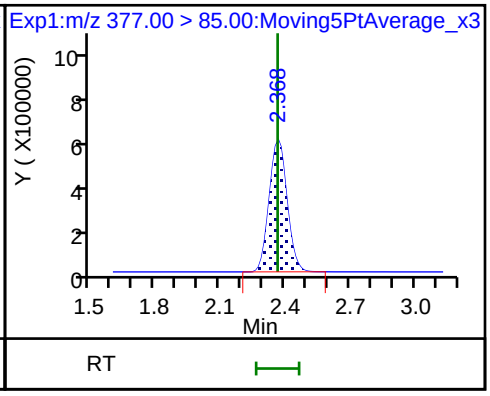
D 11 18O2 PFHxS



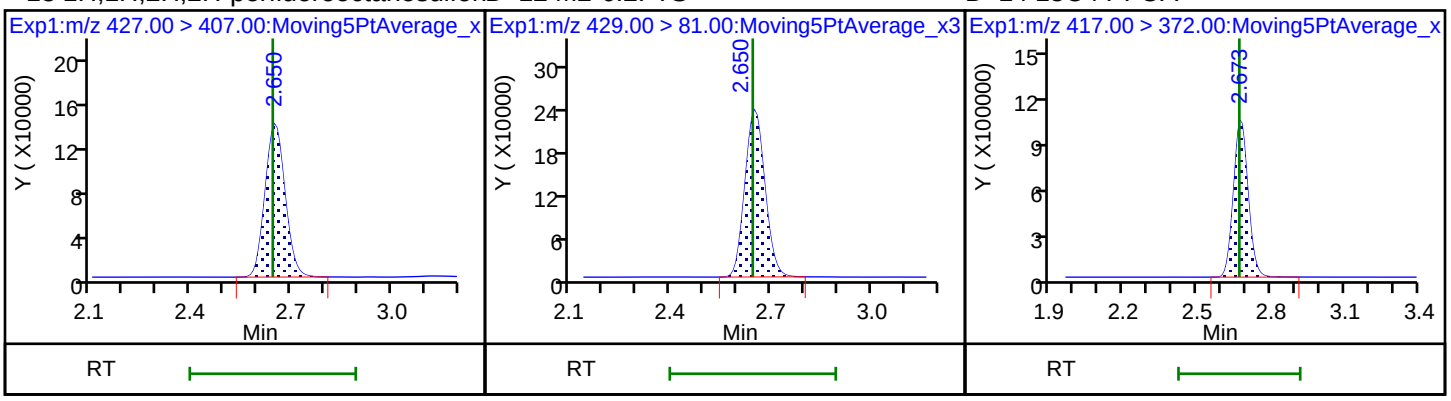
65 Adona



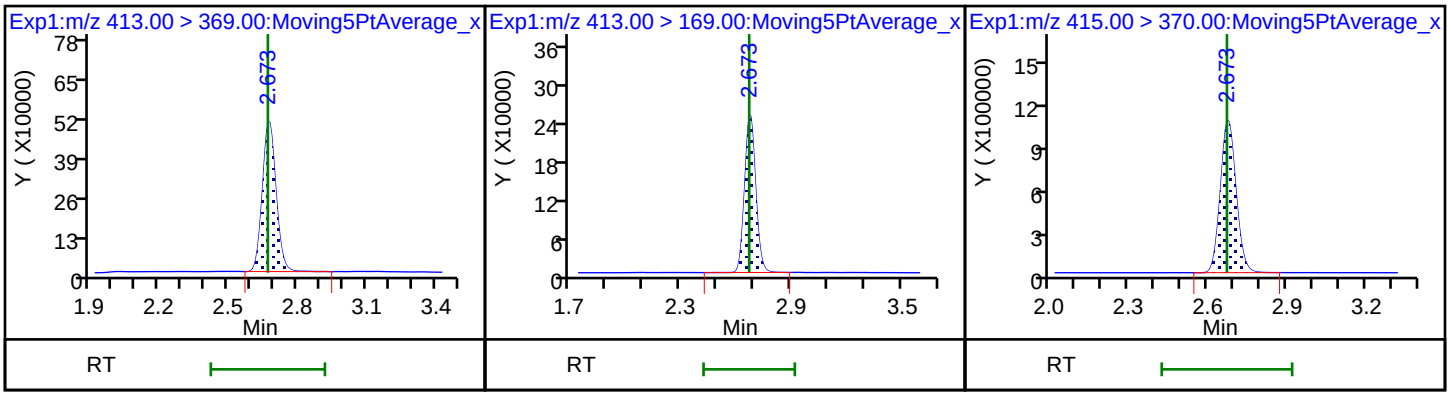
65 Adona



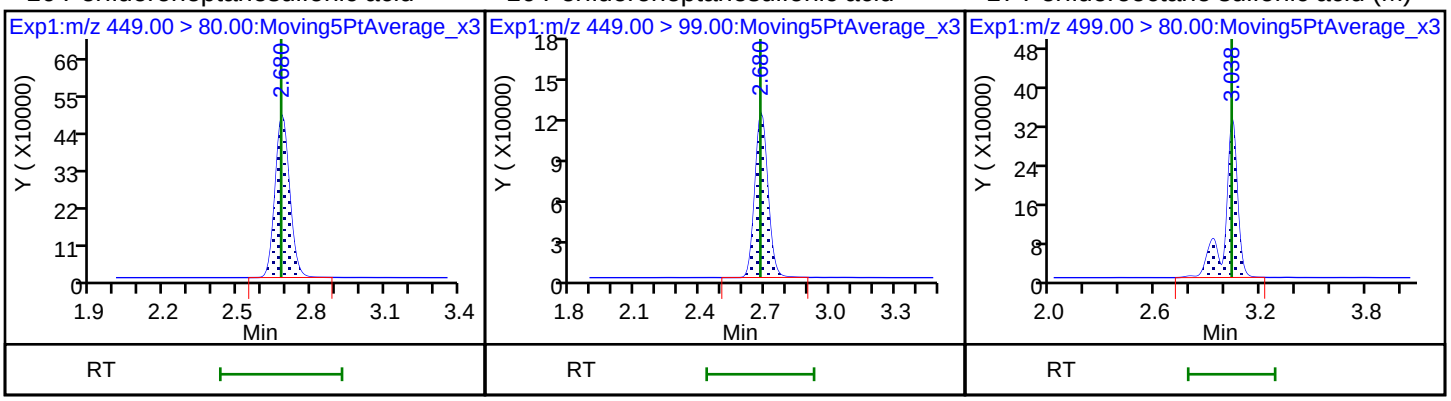
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



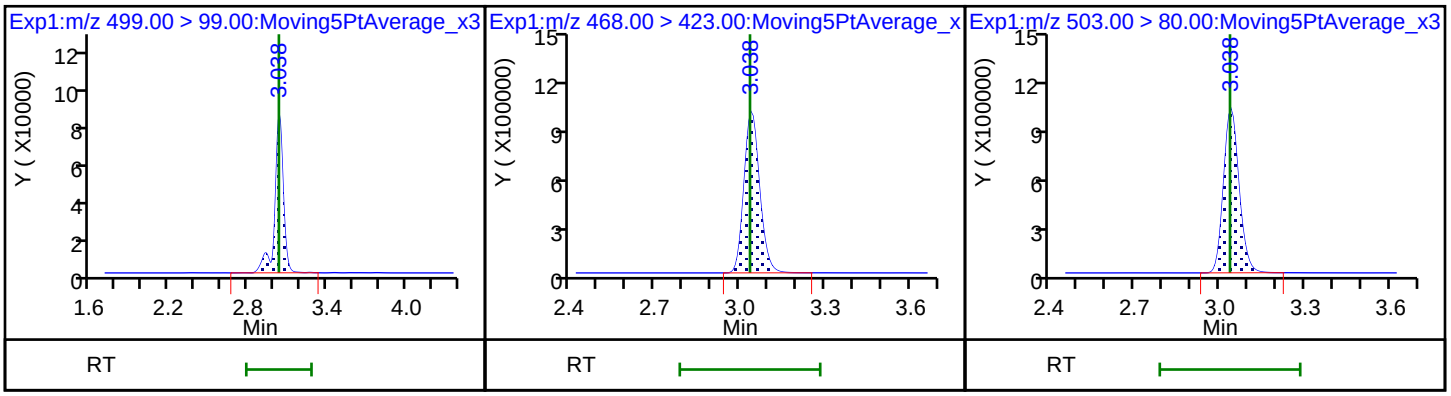
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



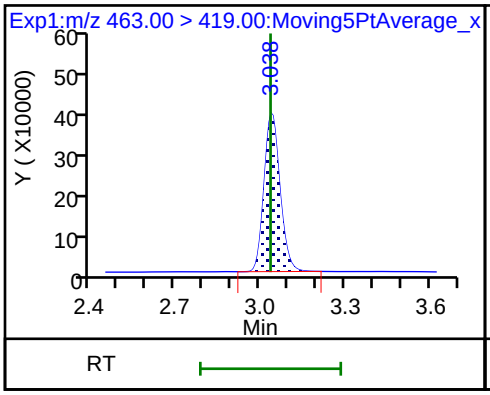
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid (M)



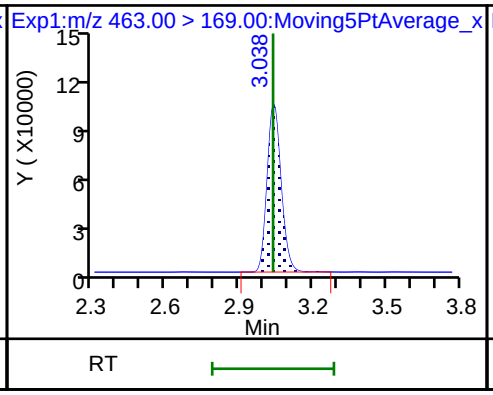
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



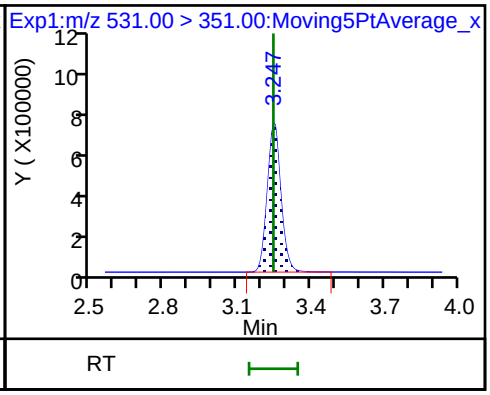
20 Perfluorononanoic acid



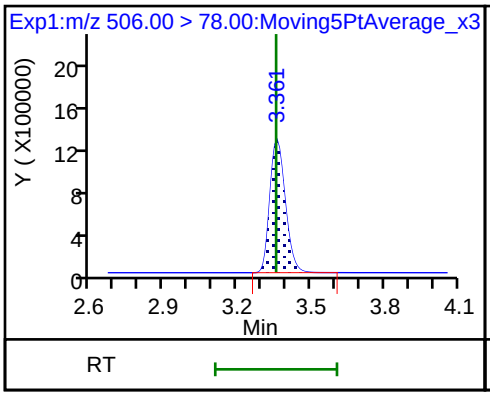
20 Perfluorononanoic acid



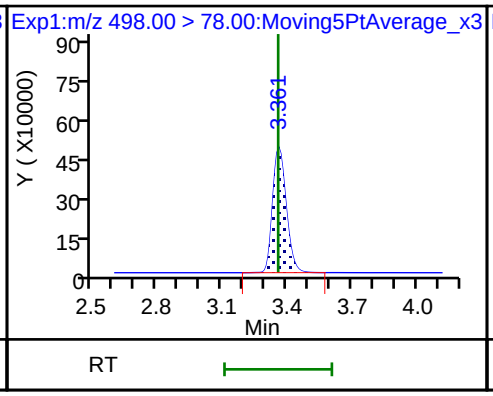
69 9-Chlorohexadecafluoro-3-oxanonane



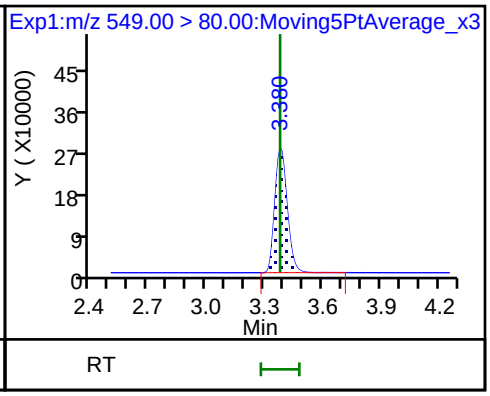
D 21 13C8 FOSA



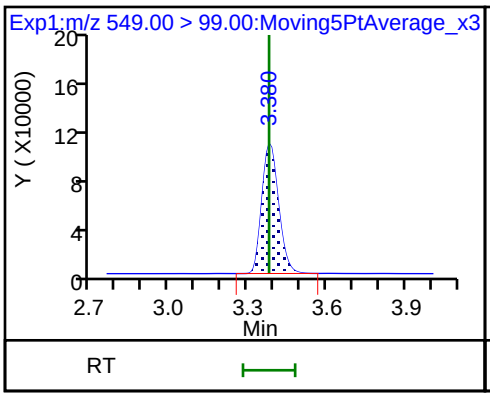
22 Perfluorooctane Sulfonamide



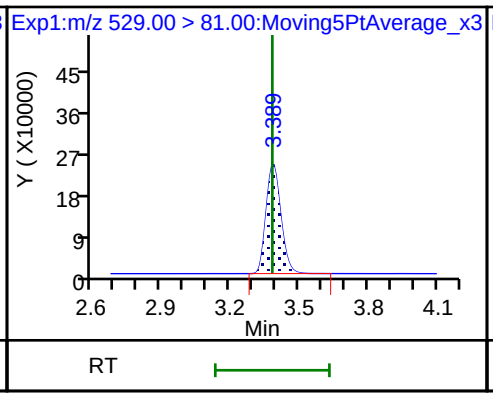
68 Perfluorononanesulfonic acid



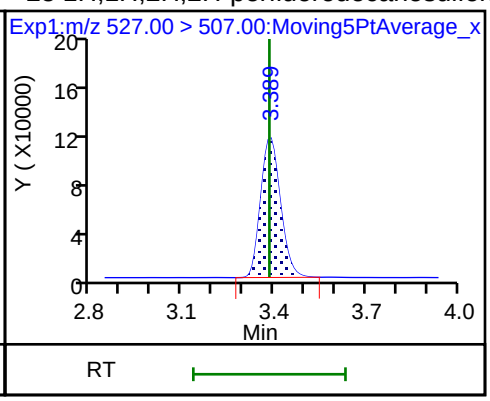
68 Perfluorononanesulfonic acid



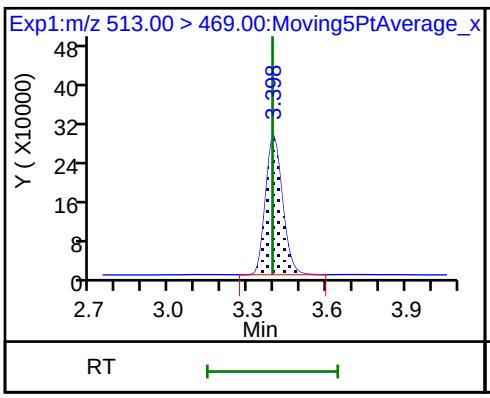
D 26 M2-8:2FTS



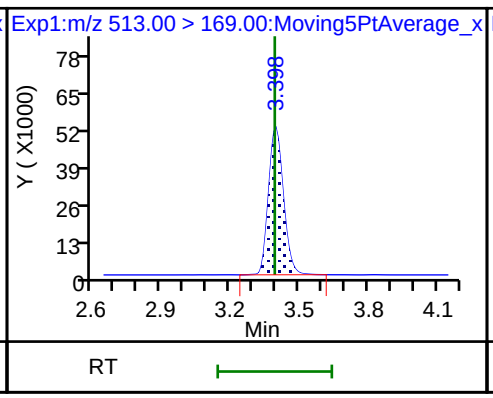
25 1H,1H,2H,2H-perfluorodecanesulfoni



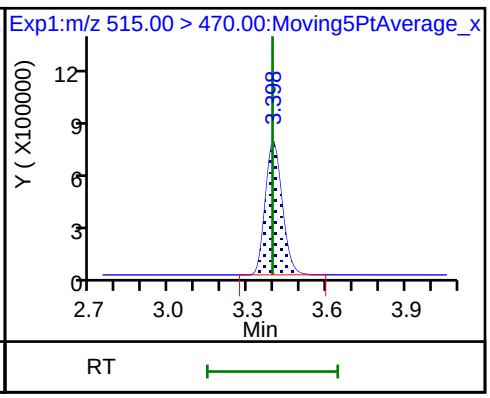
24 Perfluorodecanoic acid



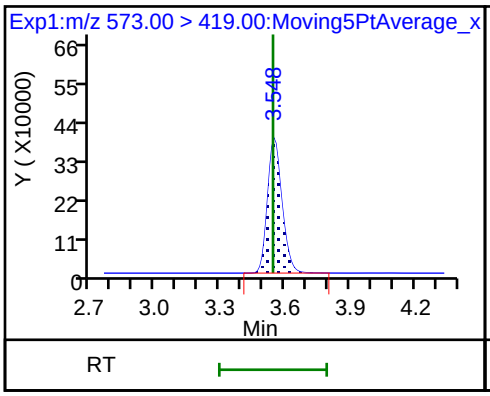
24 Perfluorodecanoic acid



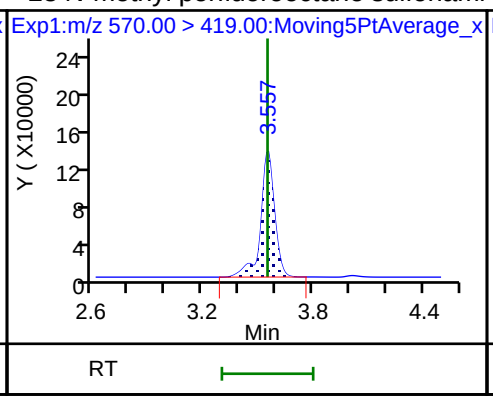
D 23 13C2 PFDA



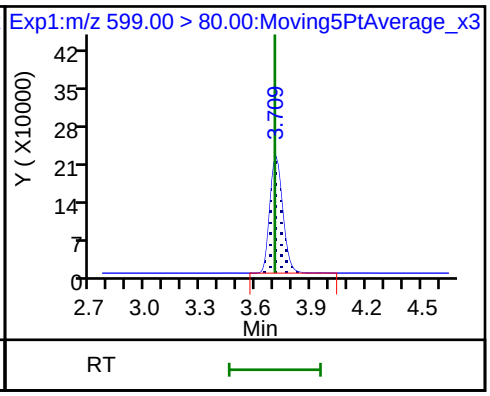
D 27 d3-NMeFOSAA



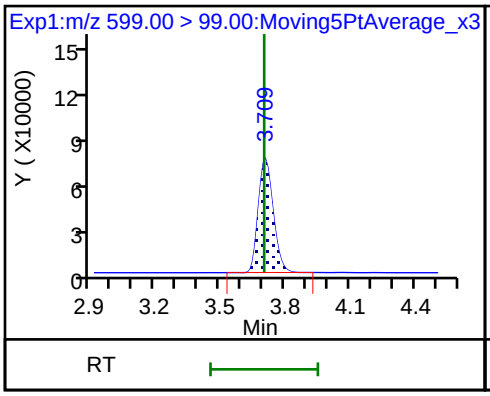
28 N-methyl perfluorooctane sulfonami



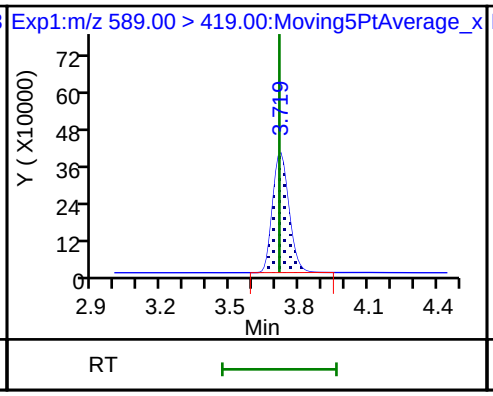
29 Perfluorodecane Sulfonic acid



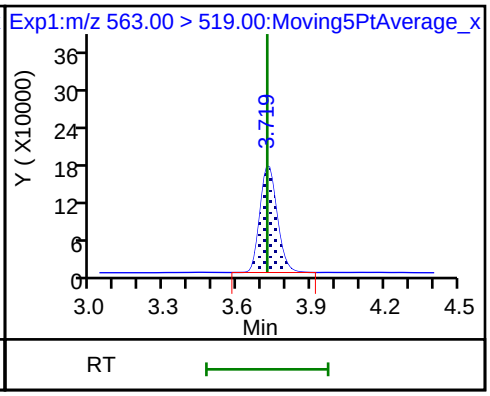
29 Perfluorodecane Sulfonic acid



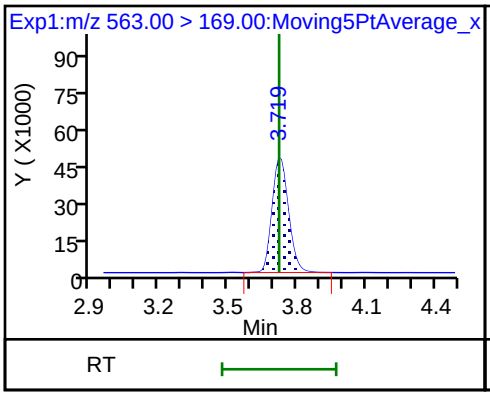
D 32 d5-NEtFOSAA



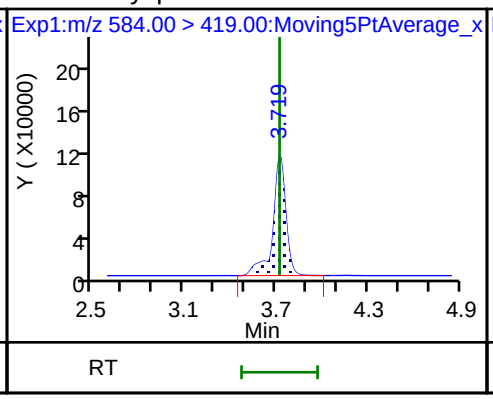
31 Perfluoroundecanoic acid



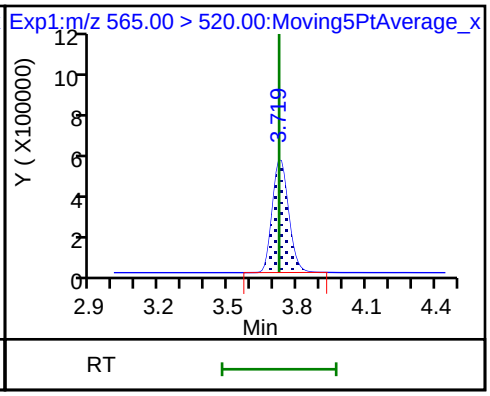
31 Perfluoroundecanoic acid



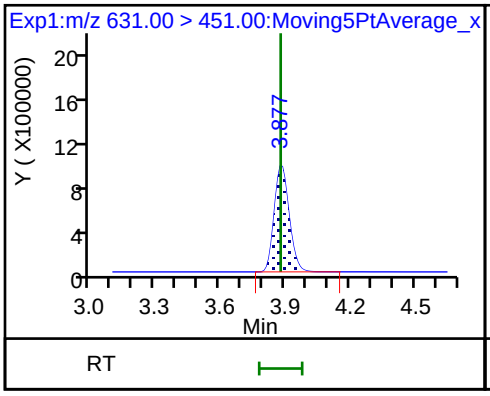
33 N-ethyl perfluorooctane sulfonamid



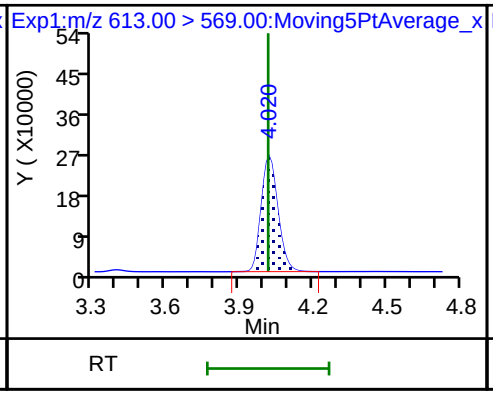
D 30 13C2 PFUnA



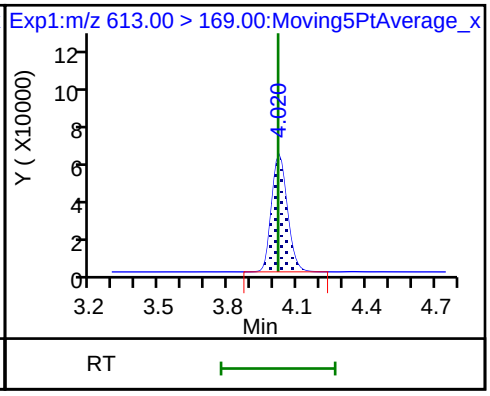
66 11-Chloroeicosafluoro-3-oxaundecan



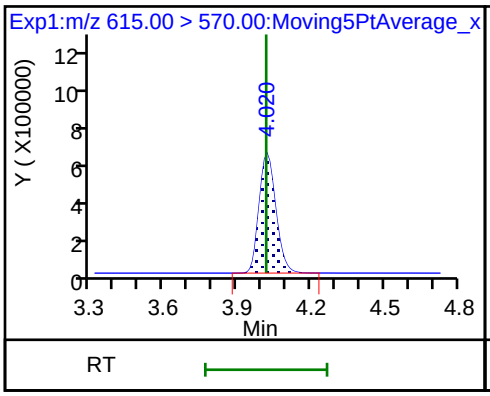
37 Perfluorododecanoic acid



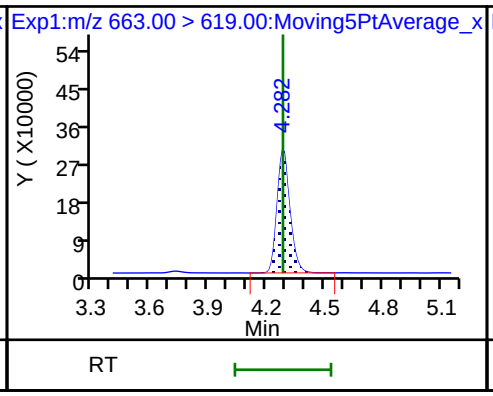
37 Perfluorododecanoic acid



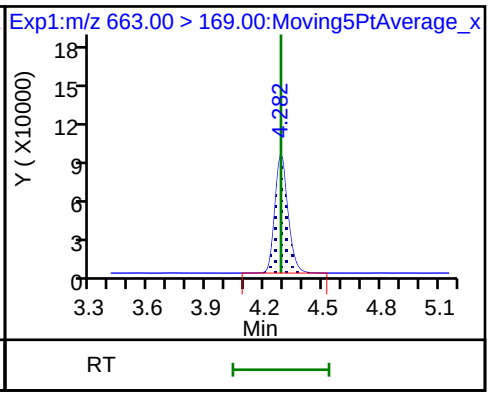
D 36 13C2 PFDoA



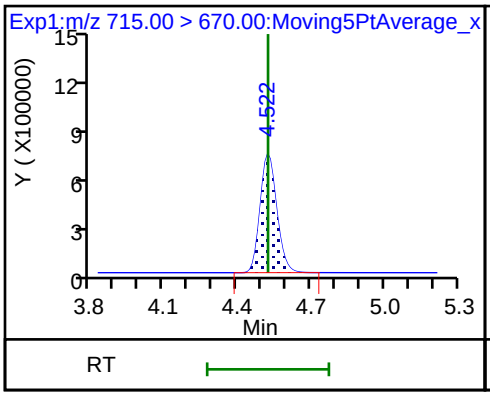
41 Perfluorotridecanoic acid



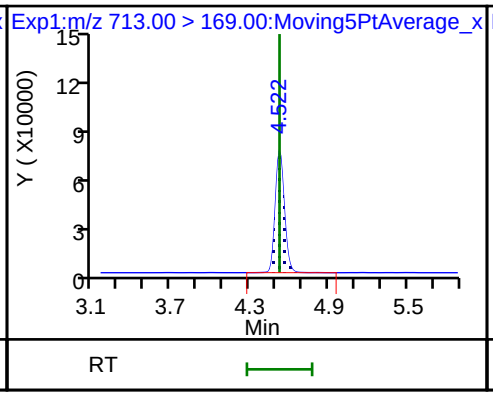
41 Perfluorotridecanoic acid



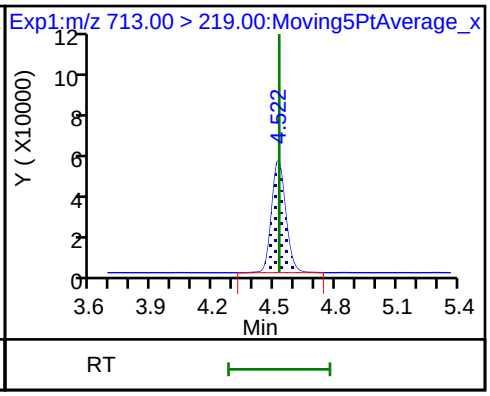
D 43 13C2-PFTeDA



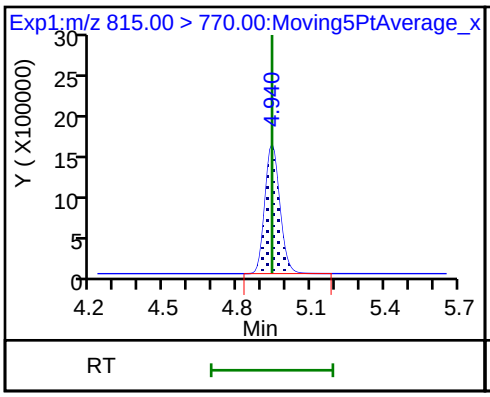
42 Perfluorotetradecanoic acid



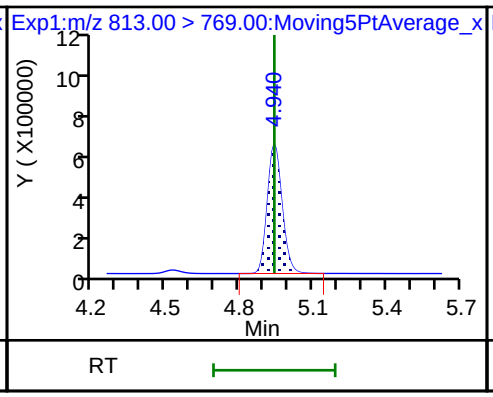
42 Perfluorotetradecanoic acid



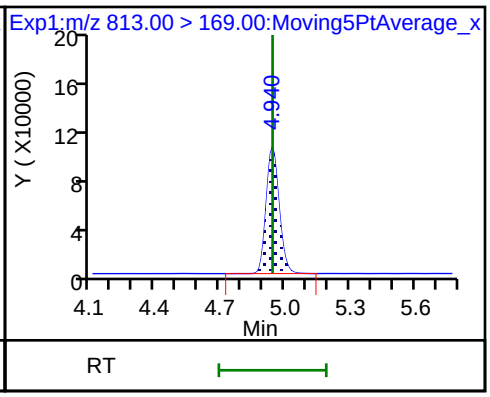
D 44 13C2-PFHxDA



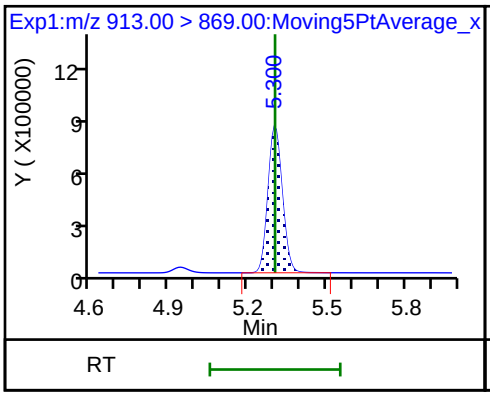
45 Perfluorohexadecanoic acid



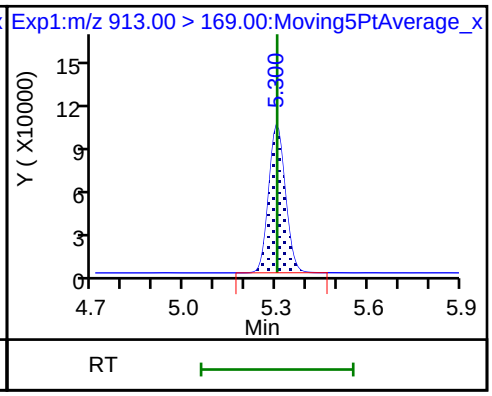
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

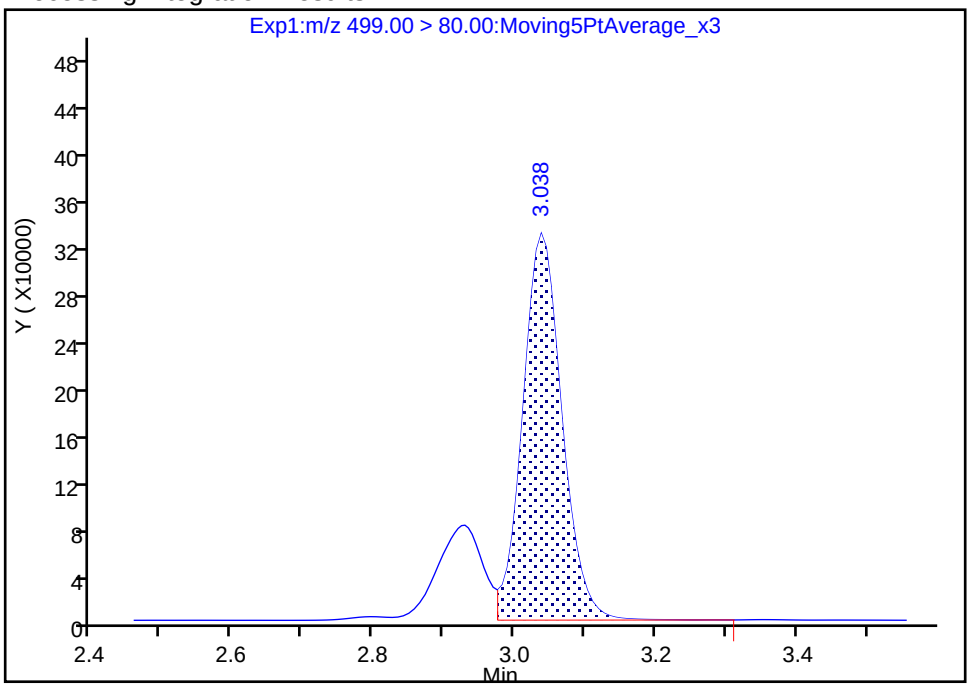
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_005.d
Injection Date: 05-Jul-2018 09:14:49 Instrument ID: A8_N
Lims ID: IC L4 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

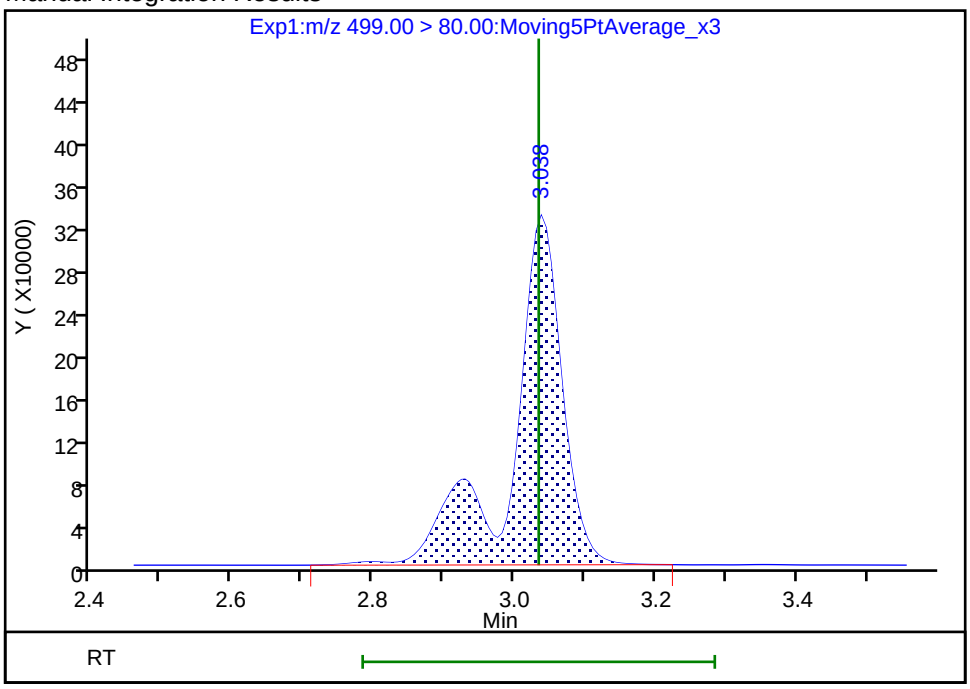
Processing Integration Results

RT: 3.04
Area: 1254577
Amount: 0.720987
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 1620324
Amount: 0.901990
Amount Units: ng/ml



Reviewer: hannigana, 05-Jul-2018 12:12:23
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 05-Jul-2018 09:22:38 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:01 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:13:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.536	5942375	2.48		99.1	24684	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	6019354	2.48		99.2	2461	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.642	4484079	2.53		101	38620	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.719	-0.003	1.000	5110087	2.39		95.7	3974	
D 47 13C3-PFBS										
301.90 > 83.00	1.761	1.756	0.005	0.659	97817	2.30		99.1	956	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.000	7339411	2.30		104	37350	
298.90 > 99.00	1.761	1.760	0.001	1.000	2961946		2.48(1.25-3.74)	104	26450	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.736	625570	2.29		98.1	7018	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.116	1513774	2.29		98.3	54590	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.748	4788239	2.52		101	71542	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.999	2.002	-0.003	1.000	4896489	2.51		100	8661	
313.00 > 119.00	1.999	2.002	-0.003	1.000	439446		11.14(5.03-15.10)	100	7908	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.025	-0.003	1.148	6619076	2.43		103	73311	
349.00 > 99.00	2.022	2.025	-0.003	1.148	2396690		2.76(1.36-4.07)	103	25200	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.786	380912	2.45		97.8	6332	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	901097	2.57		103	6257	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.318	-0.003	1.000	4999641	2.65		106	6973	
363.00 > 169.00	2.315	2.318	-0.003	1.000	1875739		2.67(1.13-3.40)	106	13773	
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.318	-0.003	0.866	4168061	2.47		98.8	37041	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.328	2.331	-0.003	1.000	5163686	2.16		94.8	18414	
399.00 > 99.00	2.328	2.331	-0.003	1.000	1774861		2.91(1.50-4.49)	94.8	10886	
D 11 18O2 PFHxS										
403.00 > 84.00	2.328	2.333	-0.005	0.871	4895856	2.36		99.7	29495	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.781	14088161	2.62		111	49595	
377.00 > 85.00	2.368	2.365	0.003	0.781	8148050		1.73(0.84-2.53)	111	52182	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.642	2.645	-0.003	1.000	1396856	2.46		104	9085	
D 12 M2-6:2FTS										
429.00 > 81.00	2.642	2.645	-0.003	0.989	862284	2.28		95.8	15731	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.670	0.003	1.000	4126992	2.50		99.9	35468	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.671	0.002	1.000	4823268	2.46		98.5	1933	
413.00 > 169.00	2.673	2.671	0.002	1.000	2511857		1.92(0.84-2.52)	98.5	11625	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.671	0.002		4332703	2.50			32774	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.678	-0.005	0.882	4951993	2.55		107	28016	
449.00 > 99.00	2.673	2.678	-0.005	0.882	1296760		3.82(1.94-5.82)	107	15697	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.031	3.034	-0.003	1.000	3955854	2.34		101	23872	
499.00 > 99.00	3.031	3.034	-0.003	1.000	862455		4.59(2.31-6.93)	101	12955	
D 19 13C5 PFNA										
468.00 > 423.00	3.031	3.034	-0.003	1.134	3465887	2.47		98.6	42511	
D 18 13C4 PFOS										
503.00 > 80.00	3.031	3.034	-0.003	1.134	3463003	2.34		97.8	24513	
20 Perfluorononanoic acid										
463.00 > 419.00	3.038	3.036	0.002	1.002	3913598	2.62		105	6881	
463.00 > 169.00	3.031	3.036	-0.005	1.000	959134		4.08(1.90-5.69)	105	19080	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.246	0.001	1.071	6652637	2.43		104	74525	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.357	0.004	1.257	5102615	2.48		99.2	37782	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.358	0.003	1.000	5128289	2.53		101	36594	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.380	3.379	0.001	1.115	2815426	2.39		99.6	35388	
549.00 > 99.00	3.380	3.379	0.001	1.115	1078510		2.61(1.33-3.97)	99.6	16289	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.380	3.382	-0.002	1.264	978302	2.32		97.0	16680	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.380	3.383	-0.003	1.000	1299370	2.41		101	24236	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.389	3.393	-0.004	1.000	3139526	2.56		103	11744	
513.00 > 169.00	3.389	3.393	-0.004	1.000	540721		5.81(2.36-7.09)	103	11136	
D 23 13C2 PFDA										
515.00 > 470.00	3.389	3.393	-0.004	1.268	2937890	2.42		97.0	39124	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.548	3.543	0.005	1.327	1766929	2.47		99.0	29664	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.548	3.551	-0.003	1.000	1825431	2.51		100	11808	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.698	3.702	-0.004	1.220	2461548	2.36		98.0	33677	
599.00 > 99.00	3.698	3.702	-0.004	1.220	852367		2.89(1.39-4.16)	98.0	22051	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.709	3.713	-0.004	1.387	1654181	2.35		93.8	11509	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.721	-0.002	1.000	2060853	2.37		94.8	7715	
563.00 > 169.00	3.719	3.721	-0.002	1.000	486954		4.23(2.12-6.36)	94.8	14305	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.721	-0.002	1.003	1549739	2.60		104	15262	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.721	-0.002	1.391	2557898	2.51		101	26360	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.877	3.879	-0.002	1.279	10714579	2.56		109	60636	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.020	4.016	0.004	1.000	3070255	2.66		107	3466	
613.00 > 169.00	4.020	4.016	0.004	1.000	720660		4.26(2.13-6.40)	107	9486	
D 36 13C2 PFDoA										
615.00 > 570.00	4.020	4.016	0.004	1.504	2616078	2.40		95.9	13704	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.281	4.284	-0.003	1.065	3136503	2.44		97.7	3294	
663.00 > 169.00	4.281	4.284	-0.003	1.065	1022166		3.07(1.25-3.76)	97.7	10653	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.522	4.524	-0.002	1.692	3283601	2.47		98.8	12890	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.522	4.524	-0.002	1.000	845500	2.38		95.1	11873	
713.00 > 219.00	4.512	4.524	-0.012	0.998	587640		1.44(0.71-2.13)	95.1	8269	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.940	4.940	0.0	1.848	6019047	2.45		97.9	11221	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.940	4.941	-0.001	1.000	6181291	2.68		107	2514	
813.00 > 169.00	4.940	4.941	-0.001	1.000	977236		6.33(2.86-8.58)	107	6007	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.299	5.302	-0.003	1.073	7063441	2.52		101	2090	
913.00 > 169.00	5.299	5.302	-0.003	1.073	866383		8.15(3.83-11.48)	101	7212	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_006.d

Injection Date: 05-Jul-2018 09:22:38 Instrument ID: A8_N

Lims ID: IC L5 Full

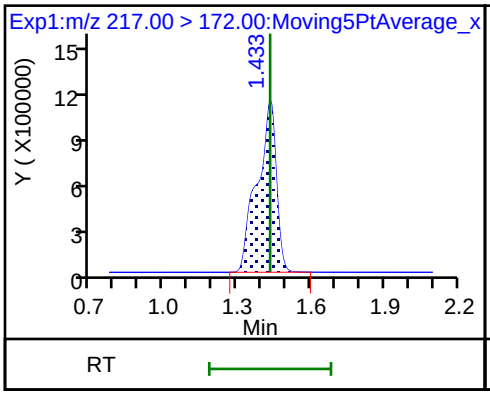
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

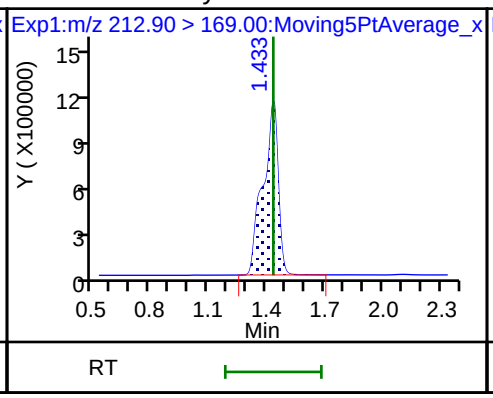
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

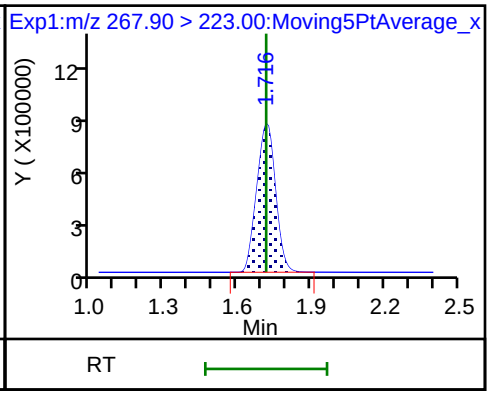
D 1 13C4 PFBA



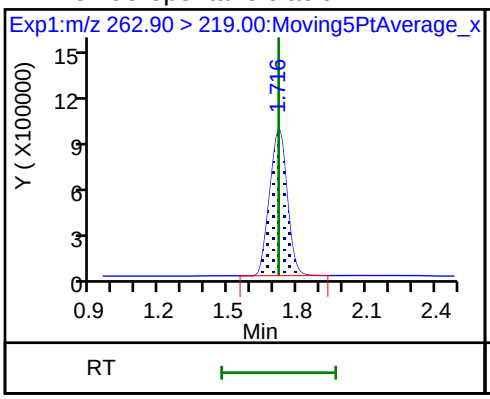
2 Perfluorobutyric acid



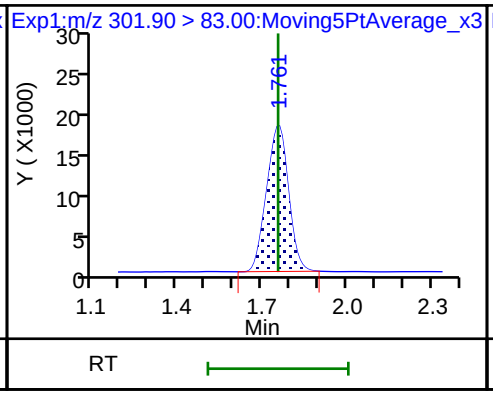
D 3 13C5-PFPeA



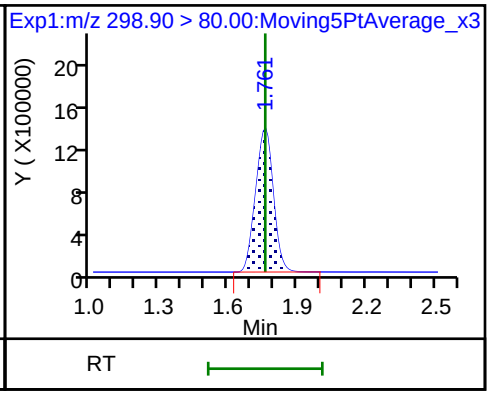
4 Perfluoropentanoic acid



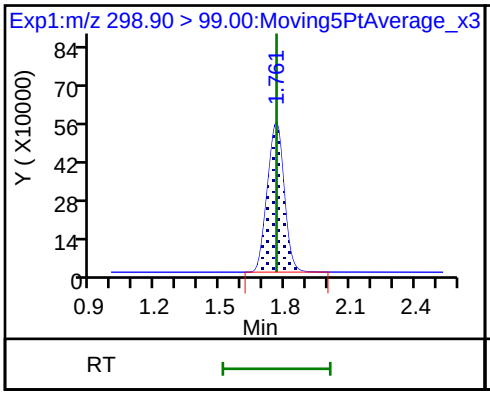
D 47 13C3-PFBS



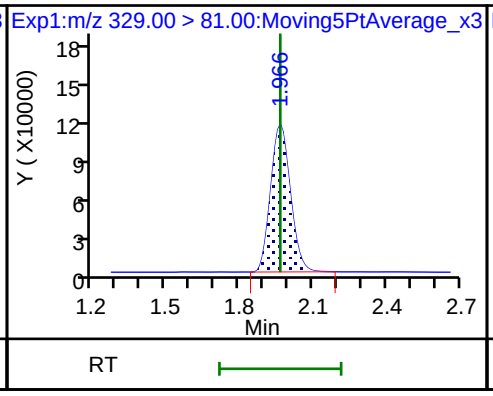
5 Perfluorobutanesulfonic acid



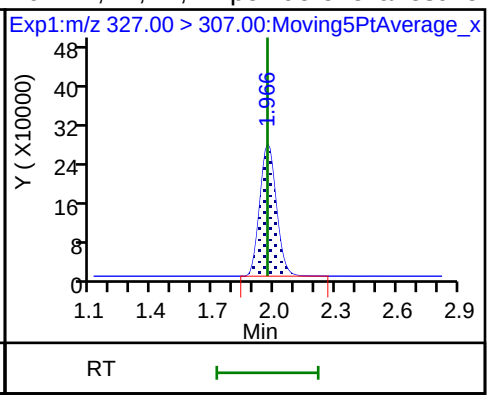
5 Perfluorobutanesulfonic acid



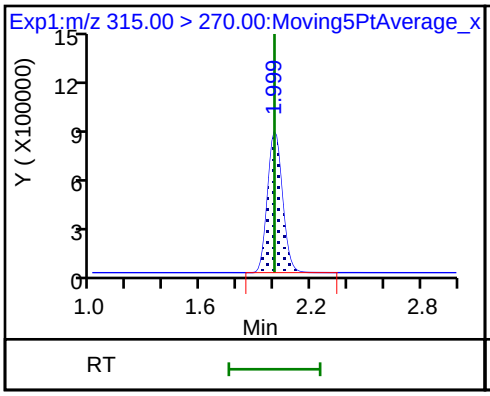
D 60 M2-4:2FTS



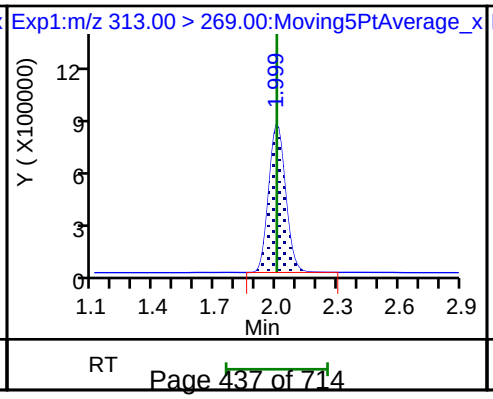
61 1H,1H,2H,2H-perfluorohexanesulfoni



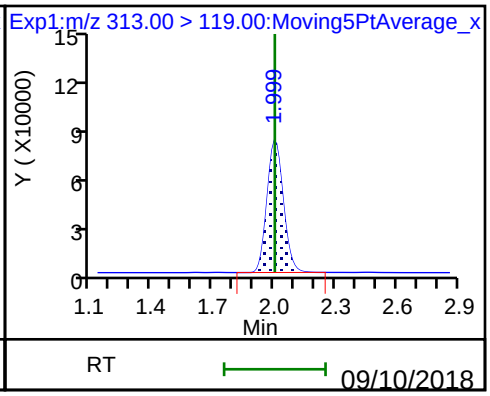
D 7 13C2 PFHxA



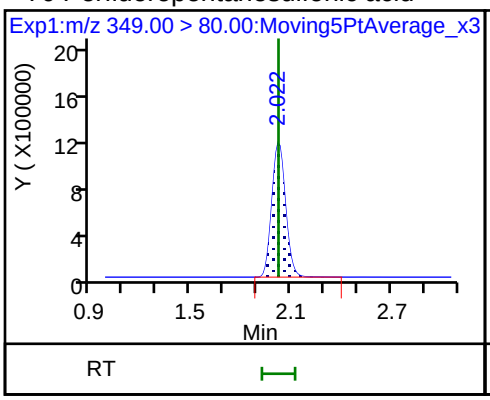
6 Perfluorohexanoic acid



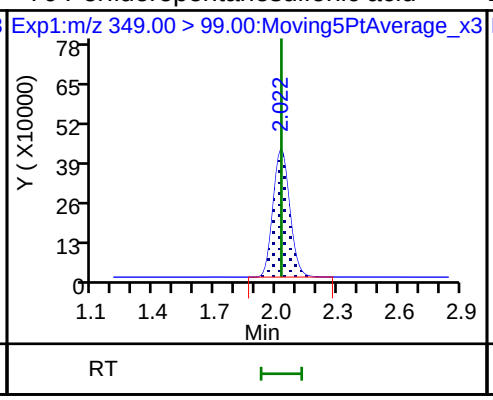
6 Perfluorohexanoic acid



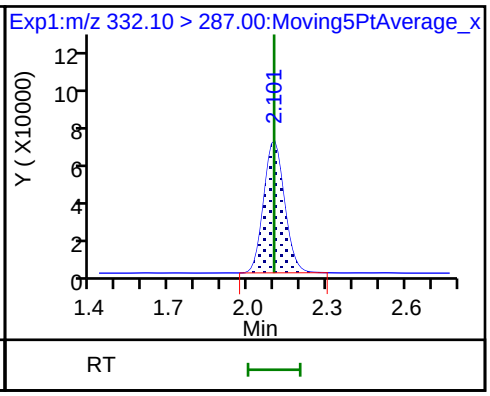
70 Perfluoropentanesulfonic acid



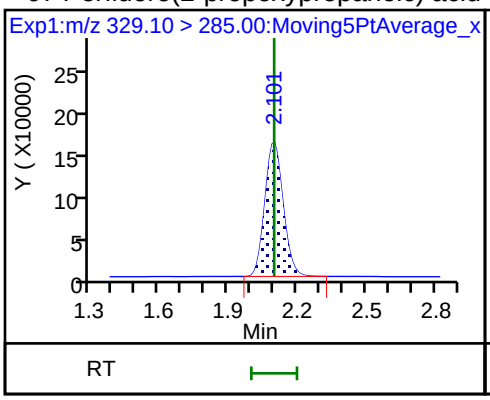
70 Perfluoropentanesulfonic acid



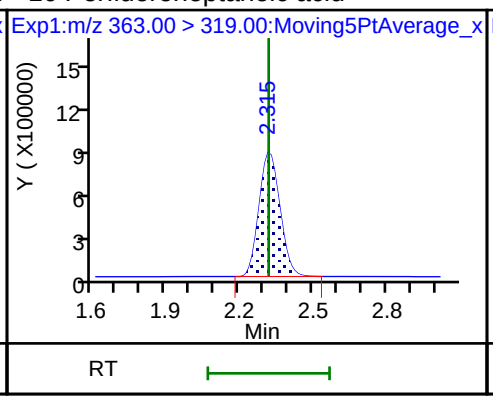
D 64 13C3 HFPO-DA



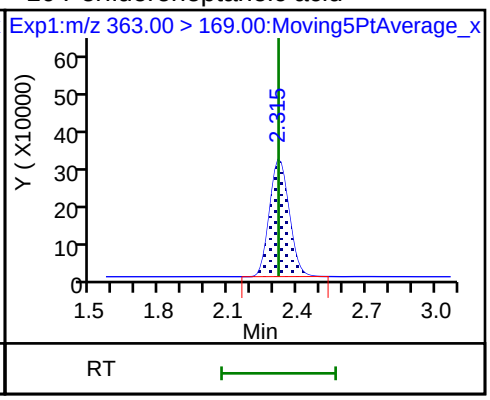
67 Perfluoro(2-propoxypropanoic) acid



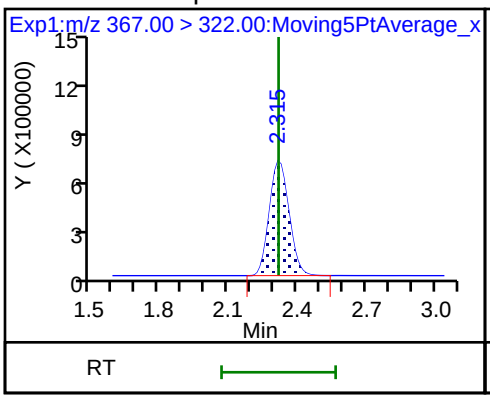
10 Perfluoroheptanoic acid



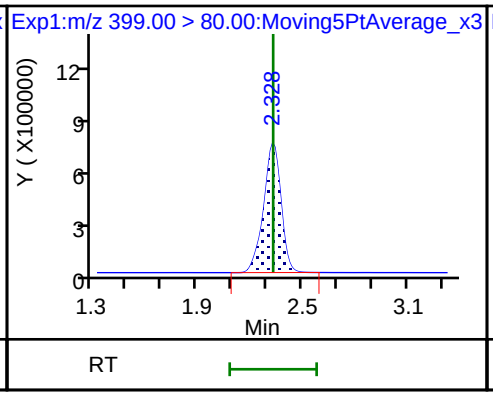
10 Perfluoroheptanoic acid



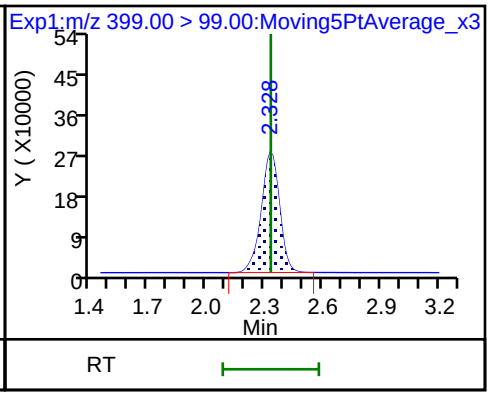
D 9 13C4-PFHpA



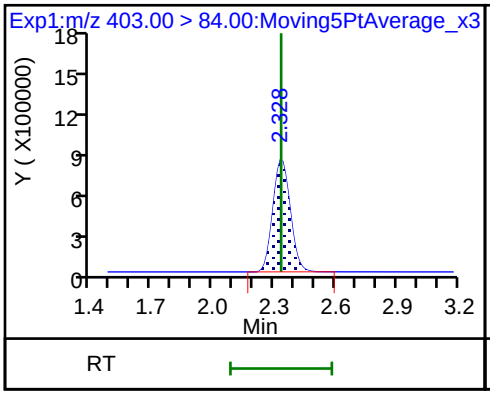
8 Perfluorohexanesulfonic acid



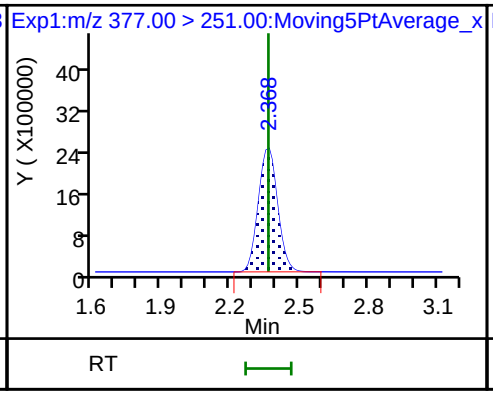
8 Perfluorohexanesulfonic acid



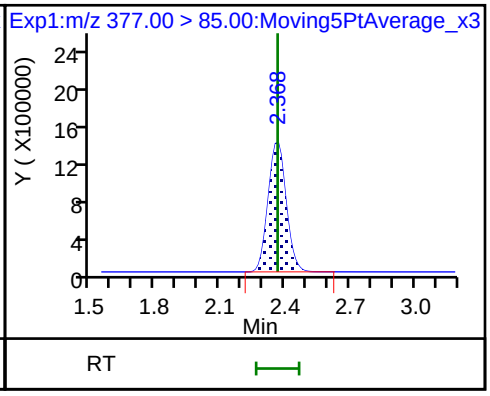
D 11 18O2 PFHxS



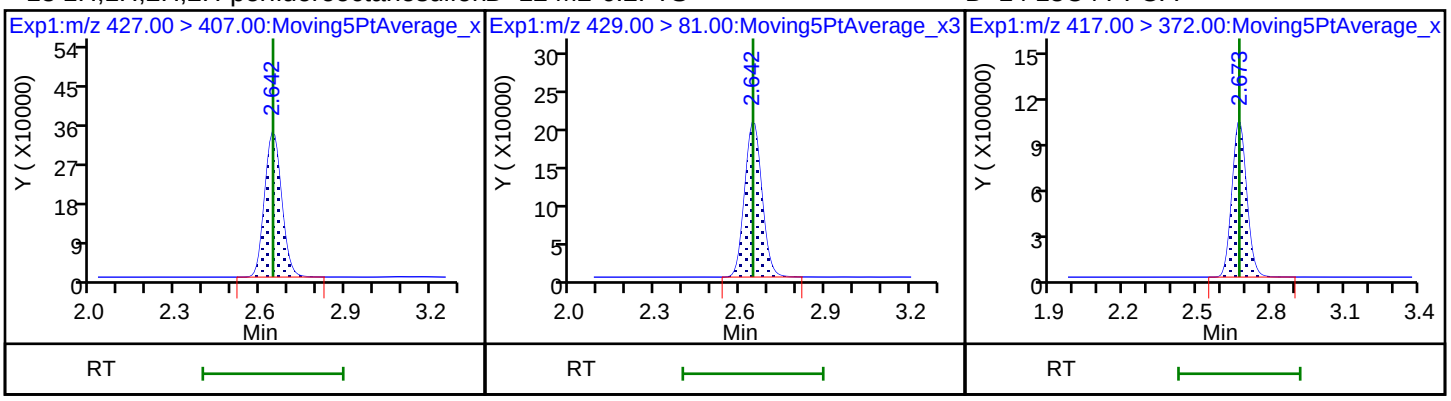
65 Adona



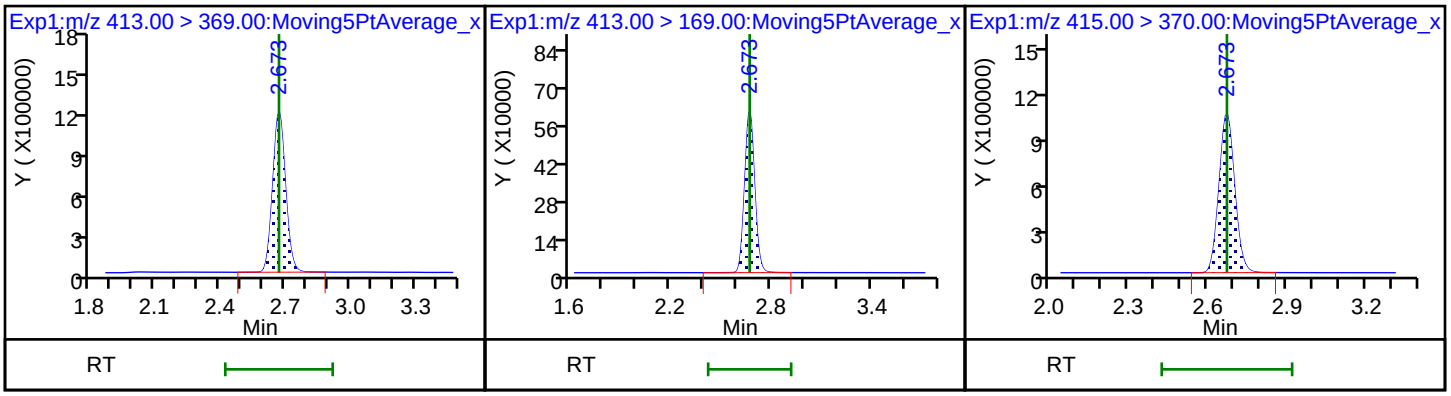
65 Adona



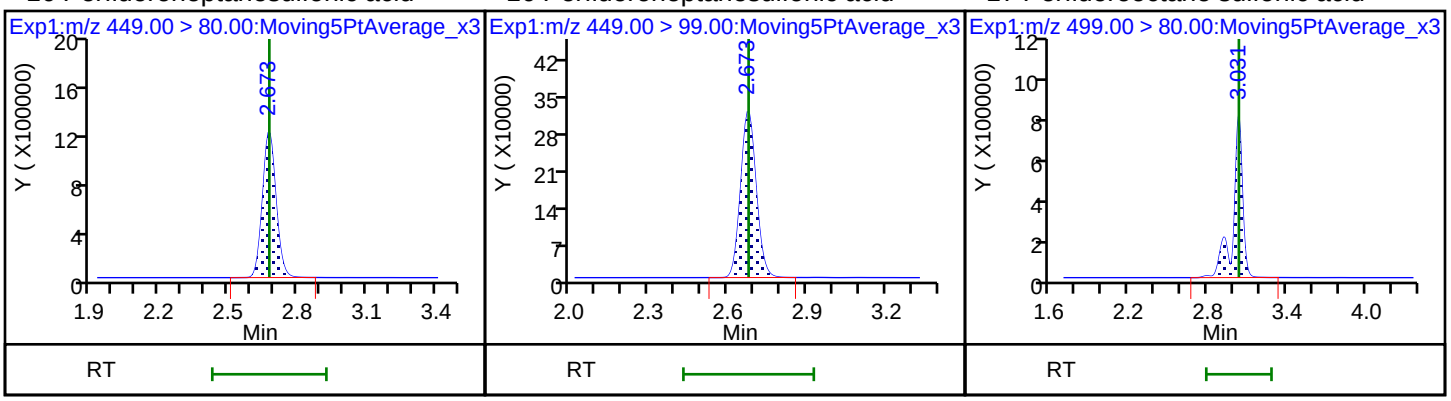
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



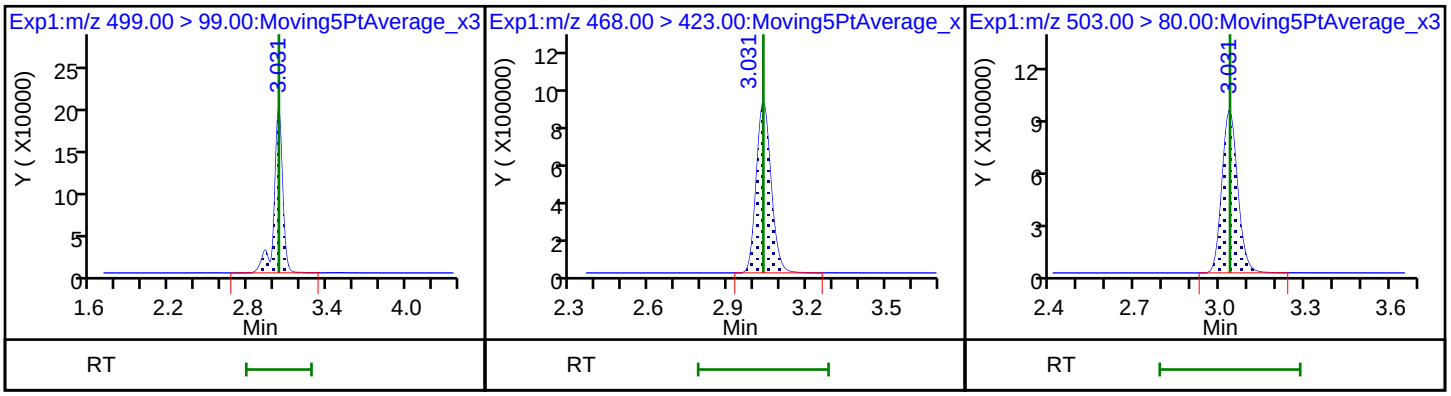
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



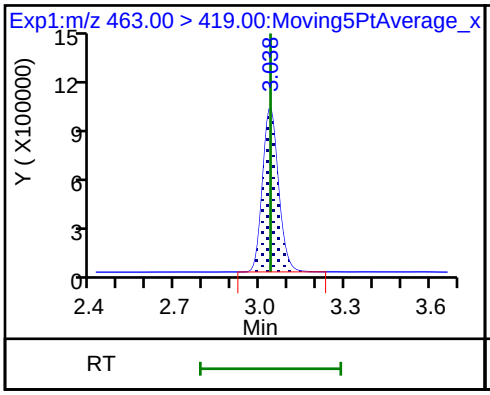
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



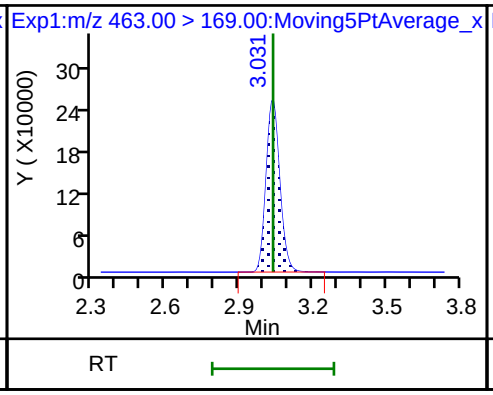
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



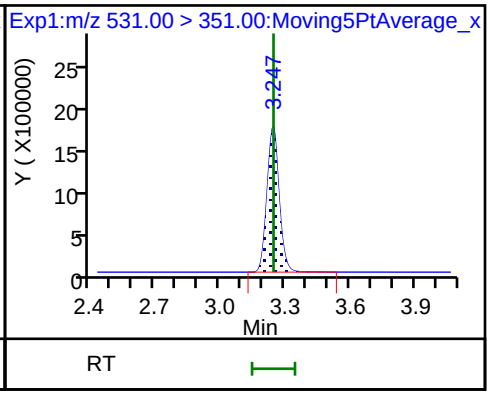
20 Perfluorononanoic acid



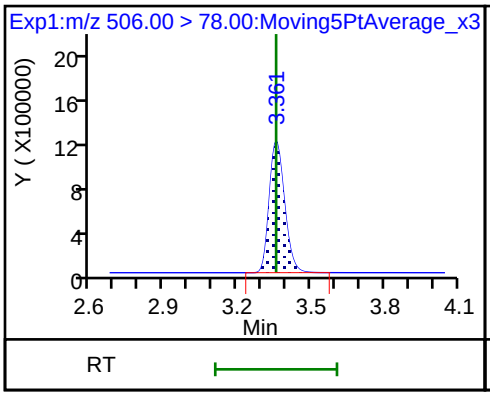
20 Perfluorononanoic acid



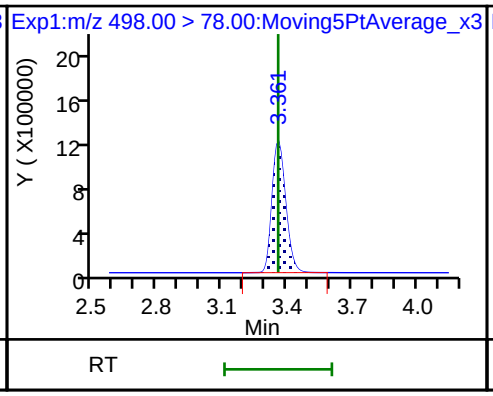
69 9-Chlorohexadecafluoro-3-oxanonane



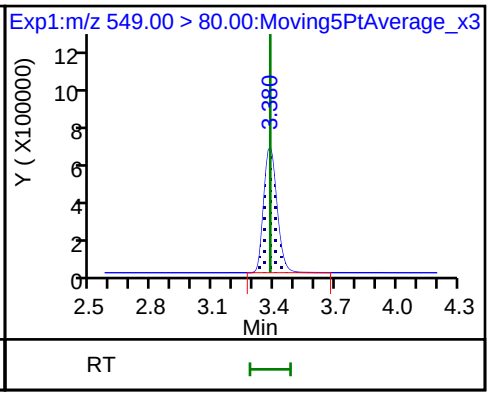
D 21 13C8 FOSA



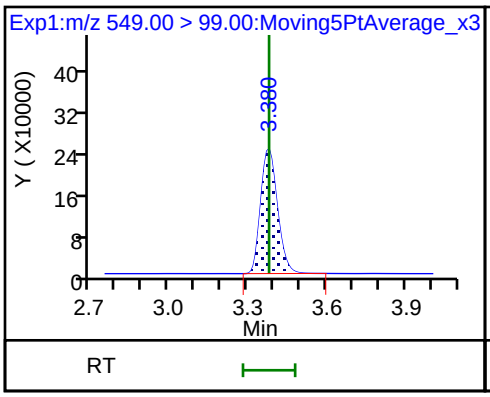
22 Perfluorooctane Sulfonamide



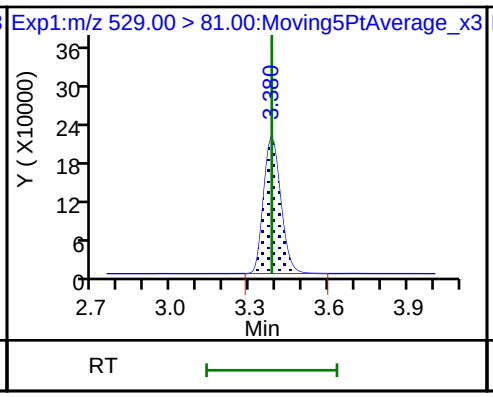
68 Perfluorononanesulfonic acid



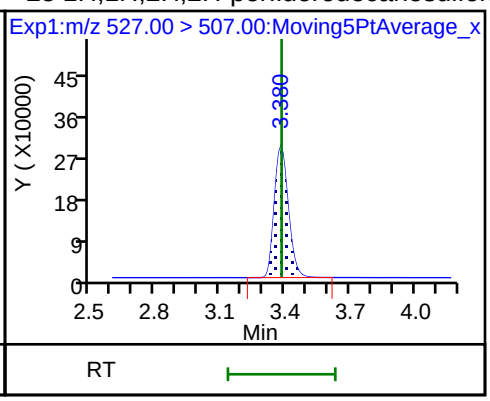
68 Perfluorononanesulfonic acid



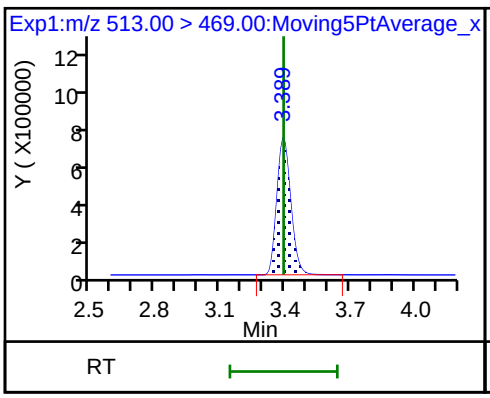
D 26 M2-8:2FTS



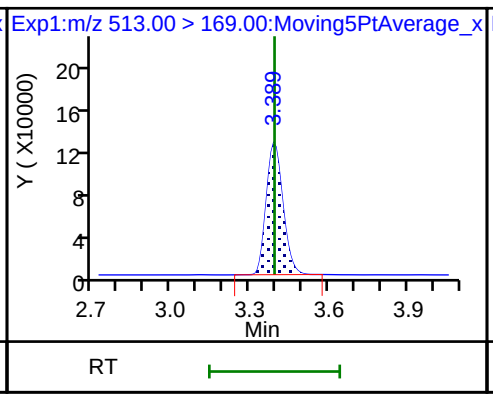
25 1H,1H,2H,2H-perfluorodecanesulfoni



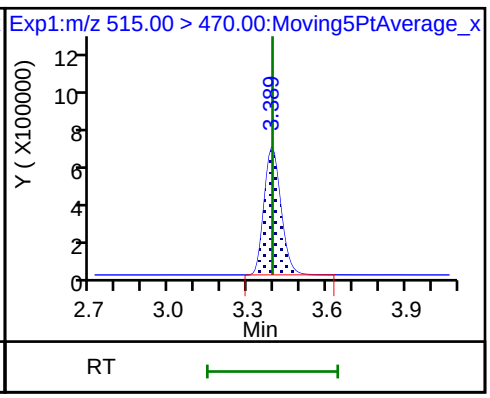
24 Perfluorodecanoic acid



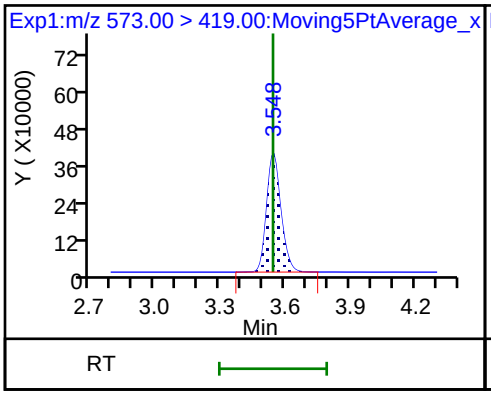
24 Perfluorodecanoic acid



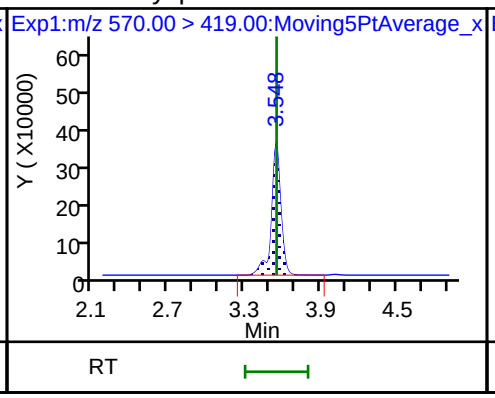
D 23 13C2 PFDA



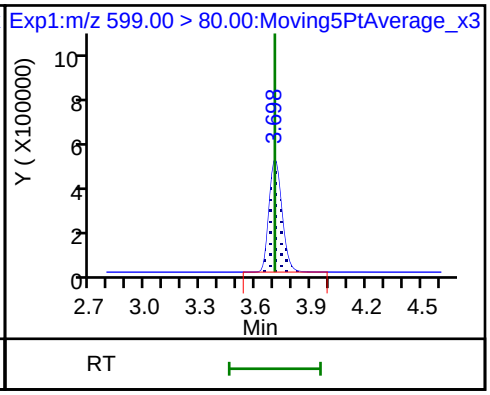
D 27 d3-NMeFOSAA



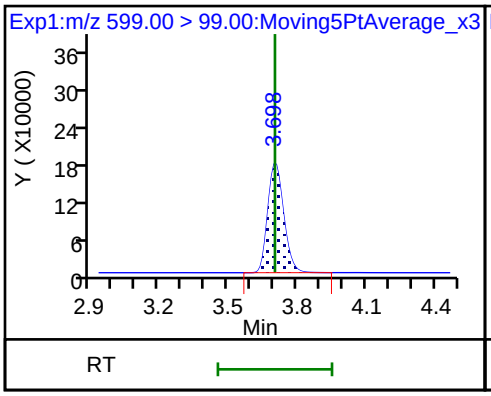
28 N-methyl perfluorooctane sulfonami



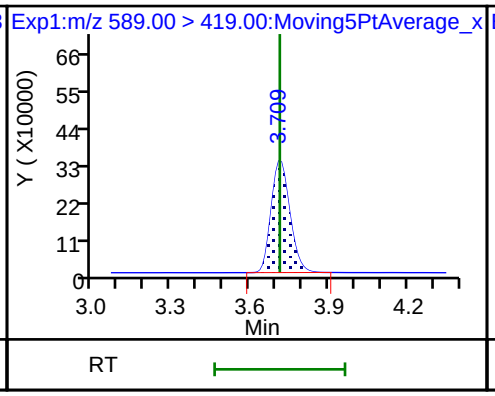
29 Perfluorodecane Sulfonic acid



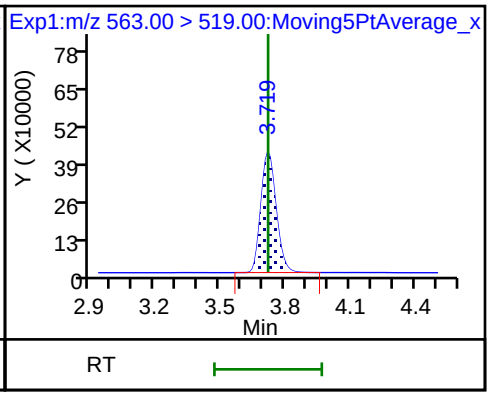
29 Perfluorodecane Sulfonic acid



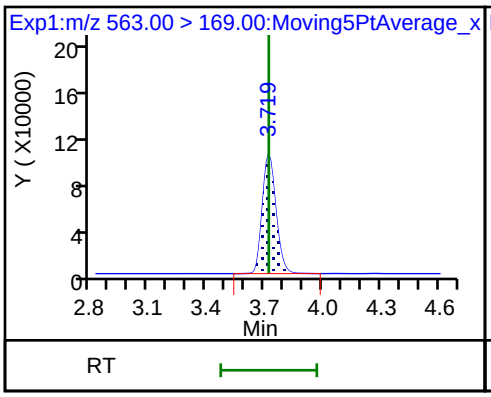
D 32 d5-NEtFOSAA



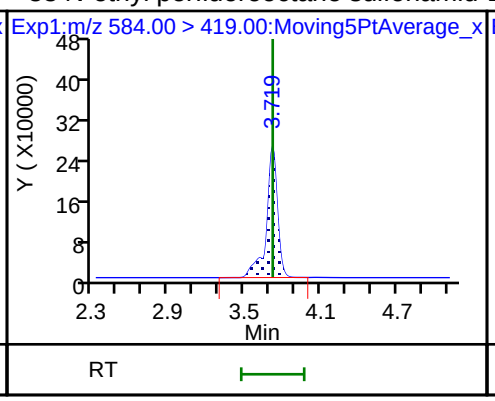
31 Perfluoroundecanoic acid



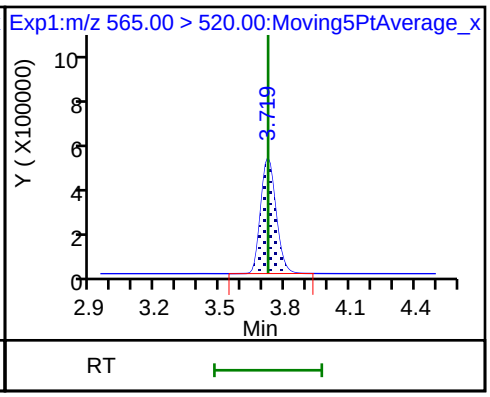
31 Perfluoroundecanoic acid



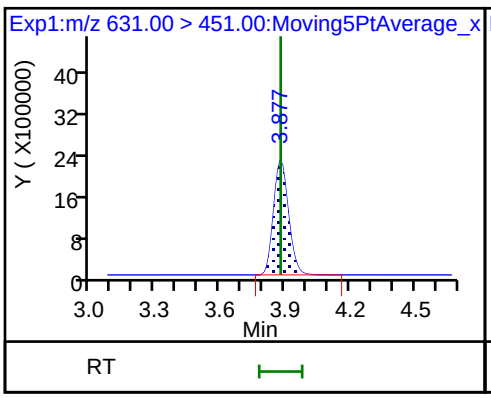
33 N-ethyl perfluorooctane sulfonamid



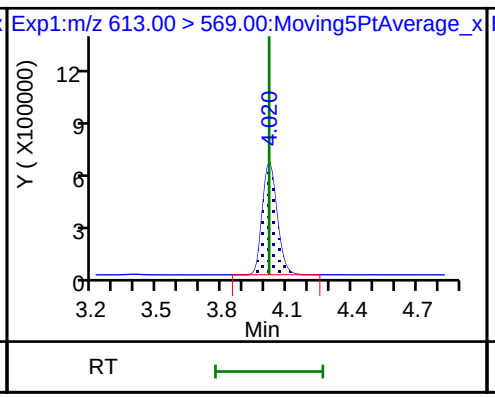
D 30 13C2 PFUnA



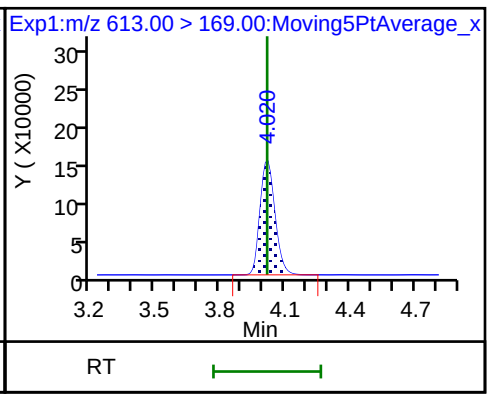
66 11-Chloroeicosafluoro-3-oxaundecan



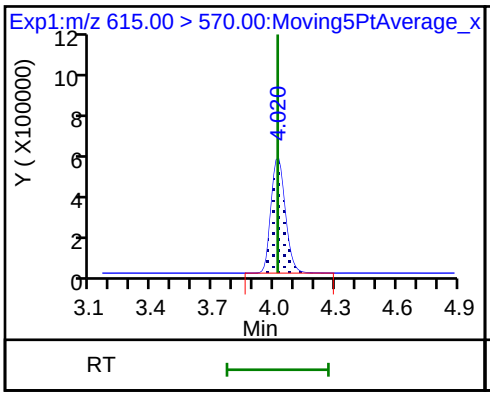
37 Perfluorododecanoic acid



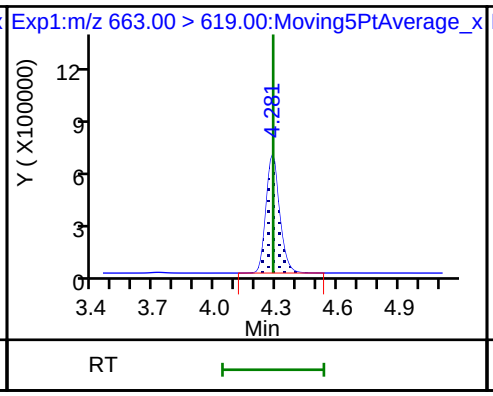
37 Perfluorododecanoic acid



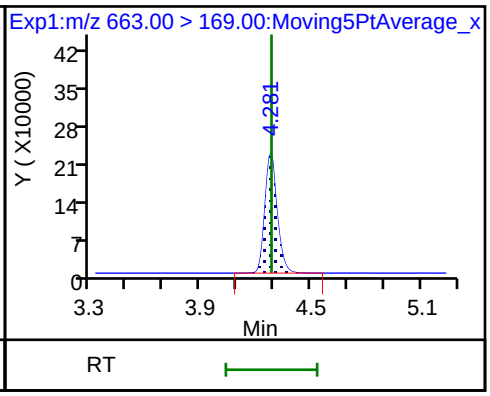
D 36 13C2 PFDoA



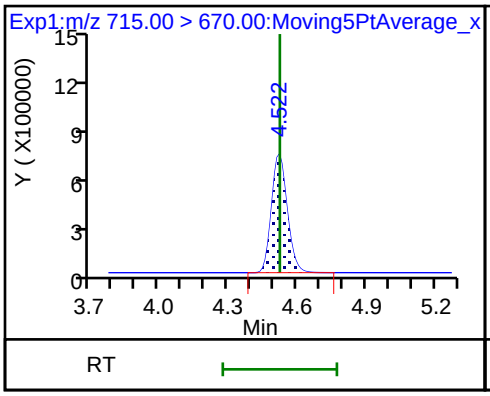
41 Perfluorotridecanoic acid



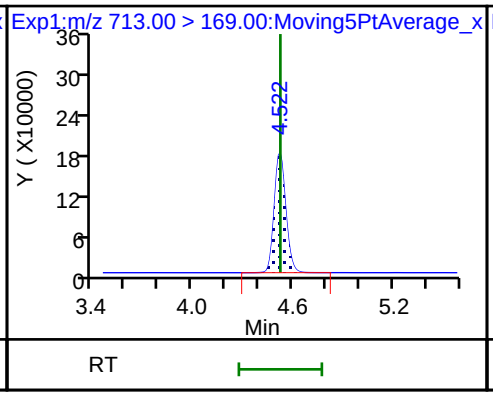
41 Perfluorotridecanoic acid



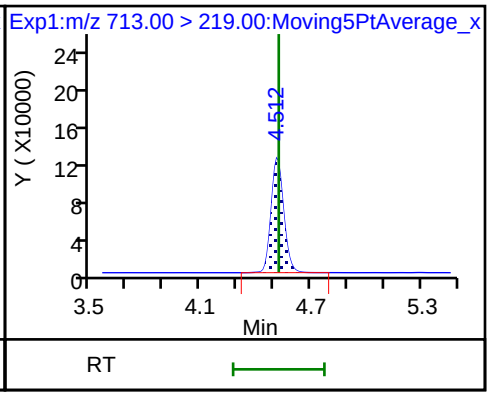
D 43 13C2-PFTeDA



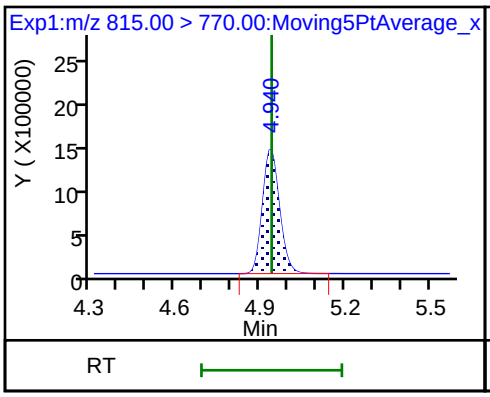
42 Perfluorotetradecanoic acid



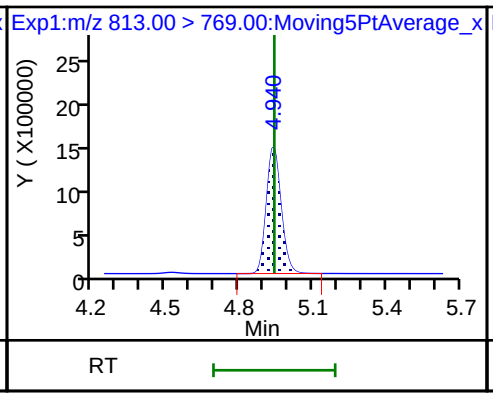
42 Perfluorotetradecanoic acid



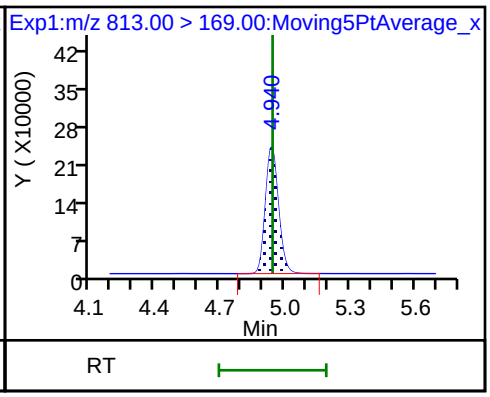
D 44 13C2-PFHxDA



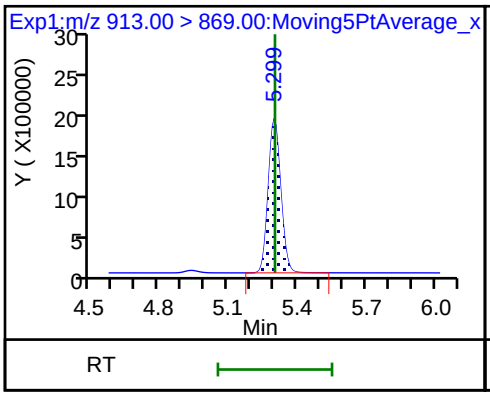
45 Perfluorohexadecanoic acid



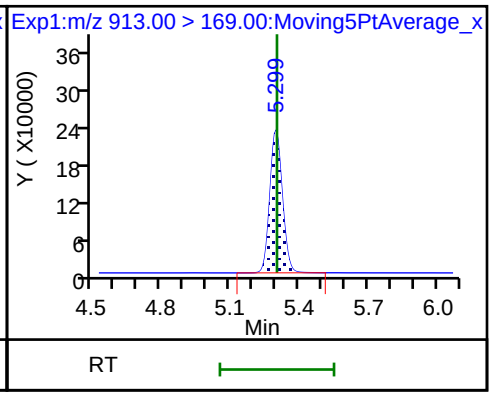
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 05-Jul-2018 09:30:26 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:04 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:13:44

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.432	-0.002	0.538	6096226	2.64		105	25217	
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.434	-0.004	1.000	12195770	4.90		97.9	4892	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.716	-0.004	0.644	4432781	2.59		104	42235	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.719	-0.007	1.000	10524768	4.98		99.7	8133	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.756	-0.008	0.657	101582	2.48		107	712	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.760	-0.003	1.005	14809613	4.47		101	77516	
298.90 > 99.00	1.757	1.760	-0.003	1.005	6061859		2.44(1.25-3.74)	101	52057	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.966	-0.006	0.737	591212	2.25		96.2	7157	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.966	-0.006	1.122	3122682	4.56		97.6	114110	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	2.000	-0.007	0.749	4780842	2.61		104	66559	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	2.002	-0.009	1.000	9756155	5.01		100	17650	
313.00 > 119.00	1.993	2.002	-0.009	1.000	902574		10.81(5.03-15.10)	100	16003	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.025	-0.009	1.153	12984575	4.58		97.7	85664	
349.00 > 99.00	2.016	2.025	-0.009	1.153	4919724		2.64(1.36-4.07)	97.7	48815	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.099	-0.004	0.788	368208	2.45		98.1	6770	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.099	-0.004	1.000	1939946	5.73		115	14121	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.308	2.318	-0.010	1.000	9666111	5.27		105	10537	
363.00 > 169.00	2.308	2.318	-0.010	1.000	3511245		2.75(1.13-3.40)	105	17981	
D 9 13C4-PFHpA										
367.00 > 322.00	2.308	2.318	-0.010	0.868	4055763	2.49		99.8	40046	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.321	2.331	-0.010	0.994	10377680	4.47		98.3	21956	
399.00 > 99.00	2.321	2.331	-0.010	0.994	3539108		2.93(1.50-4.49)	98.3	13906	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.333	0.001	0.877	4746316	2.37		100	47026	
65 Adona										
377.00 > 251.00	2.360	2.365	-0.005	0.779	24778537	4.58		97.3	109531	
377.00 > 85.00	2.360	2.365	-0.005	0.779	16134482		1.54(0.84-2.53)	97.3	51266	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.636	2.645	-0.009	1.000	2772705	4.74		99.9	15793	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.645	-0.009	0.991	887494	2.43		102	15164	
D 14 13C4 PFOA										
417.00 > 372.00	2.660	2.670	-0.010	1.000	3996804	2.51		100	39848	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.671	-0.004	1.003	9816387	5.18		103	4189	
413.00 > 169.00	2.667	2.671	-0.004	1.003	5189971		1.89(0.84-2.52)	103	19053	
* 62 13C2-PFOA										
415.00 > 370.00	2.660	2.671	-0.011		4175058	2.50			40390	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.678	-0.011	0.881	9359028	4.79		101	33235	
449.00 > 99.00	2.667	2.678	-0.011	0.881	2563857		3.65(1.94-5.82)	101	38695	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.028	3.034	-0.006	1.000	8047965	4.72		102	43056	
499.00 > 99.00	3.028	3.034	-0.006	1.000	1802235		4.47(2.31-6.93)	102	22880	
D 19 13C5 PFNA										
468.00 > 423.00	3.028	3.034	-0.006	1.138	3391733	2.50		100	34358	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.034	-0.006	1.138	3487989	2.44		102	21787	
20 Perfluorononanoic acid										
463.00 > 419.00	3.028	3.036	-0.008	1.000	7864000	5.38		108	14690	
463.00 > 169.00	3.028	3.036	-0.008	1.000	1959106		4.01(1.90-5.69)	108	34383	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.236	3.246	-0.010	1.069	13107538	4.75		102	123913	
D 21 13C8 FOSA										
506.00 > 78.00	3.347	3.357	-0.010	1.258	5147225	2.60		104	47884	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.355	3.358	-0.003	1.003	10065471	4.93		98.6	35100	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.374	3.379	-0.005	1.114	5733386	4.83		101	44981	
549.00 > 99.00	3.365	3.379	-0.014	1.111	2200645		2.61(1.33-3.97)	101	62707	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.374	3.382	-0.008	1.268	933375	2.30		96.0	16152	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.374	3.383	-0.009	1.000	2540408	4.93		103	44247	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.383	3.393	-0.010	1.000	6282630	5.07		101	19079	
513.00 > 169.00	3.383	3.393	-0.010	1.000	1061497		5.92(2.36-7.09)	101	18336	
D 23 13C2 PFDA										
515.00 > 470.00	3.383	3.393	-0.010	1.272	2973033	2.55		102	33594	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.533	3.543	-0.010	1.328	1780322	2.59		104	35346	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.542	3.551	-0.009	1.003	3622994	4.94		98.9	20880	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.690	3.702	-0.012	1.219	5394731	5.14		107	43279	
599.00 > 99.00	3.690	3.702	-0.012	1.219	1694363		3.18(1.39-4.16)	107	43713	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.700	3.713	-0.013	1.391	1673669	2.46		98.5	12091	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.721	-0.010	1.000	3978902	4.69		93.8	13217	
563.00 > 169.00	3.711	3.721	-0.010	1.000	991567		4.01(2.12-6.36)	93.8	18589	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.721	-0.010	1.003	3122896	5.17		103	35346	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.721	-0.010	1.395	2494182	2.54		102	28595	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.869	3.879	-0.010	1.278	19298262	4.58		97.3	137975	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.016	-0.006	1.000	5843687	5.11		102	5972	
613.00 > 169.00	4.010	4.016	-0.006	1.000	1393765		4.19(2.13-6.40)	102	24318	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.016	-0.006	1.508	2595125	2.47		98.8	13994	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.273	4.284	-0.011	1.066	6359926	4.99		99.8	6383	
663.00 > 169.00	4.273	4.284	-0.011	1.066	1946731		3.27(1.25-3.76)	99.8	24940	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.513	4.524	-0.011	1.697	3317852	2.59		104	14664	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.513	4.524	-0.011	1.000	1703041	4.74		94.8	18934	
713.00 > 219.00	4.503	4.524	-0.021	0.998	1188914		1.43(0.71-2.13)	94.8	12370	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.932	4.940	-0.008	1.854	6127474	2.58		103	12963	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.932	4.941	-0.009	1.000	11482097	4.91		98.2	4395	
813.00 > 169.00	4.932	4.941	-0.009	1.000	2014785		5.70(2.86-8.58)	98.2	10907	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.292	5.302	-0.010	1.073	14547117	5.10		102	3597	
913.00 > 169.00	5.285	5.302	-0.017	1.071	1905404		7.63(3.83-11.48)	102	9842	

Reagents:

LCPFC_LL6_00006 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:06 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_007.d

Injection Date: 05-Jul-2018 09:30:26 Instrument ID: A8_N

Lims ID: IC L6 Full

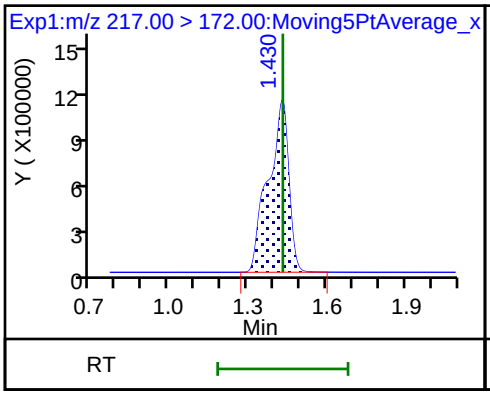
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

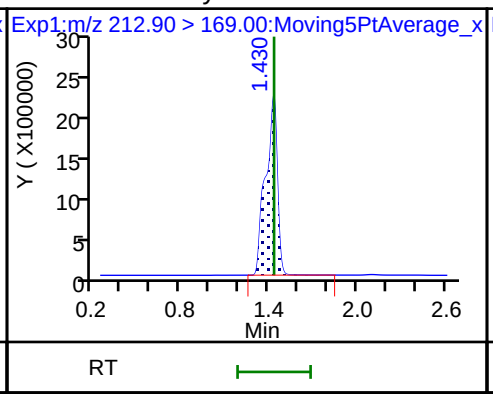
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

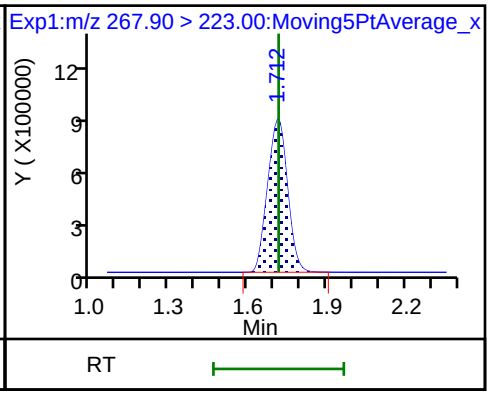
D 1 13C4 PFBA



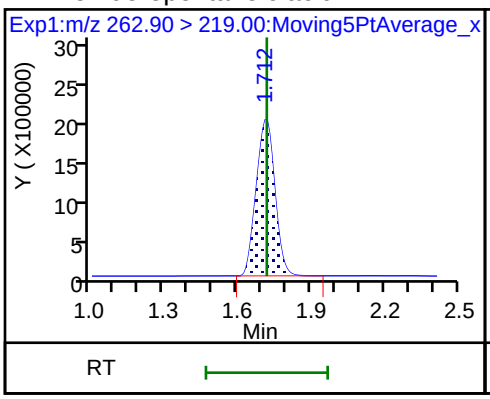
2 Perfluorobutyric acid



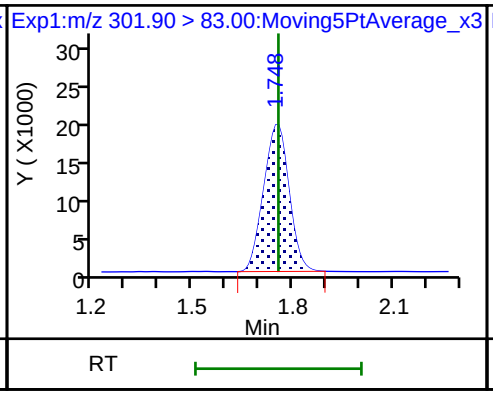
D 3 13C5-PFPeA



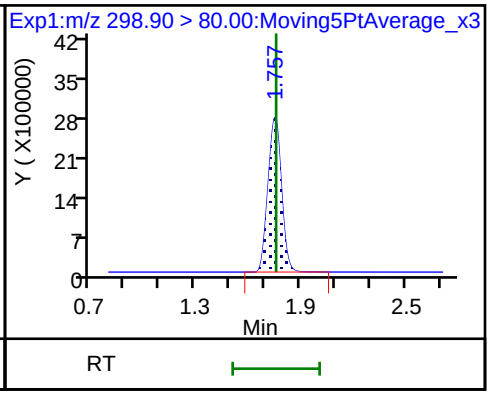
4 Perfluoropentanoic acid



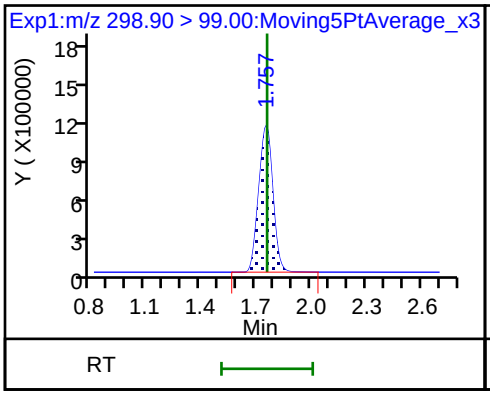
D 47 13C3-PFBS



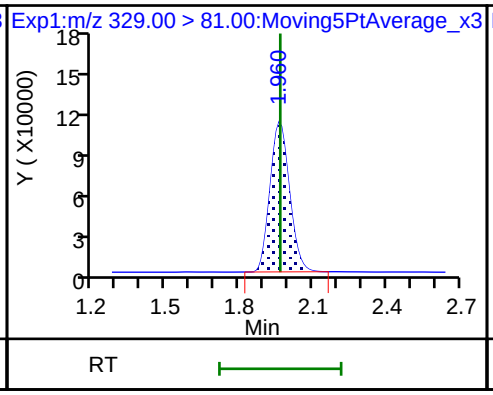
5 Perfluorobutanesulfonic acid



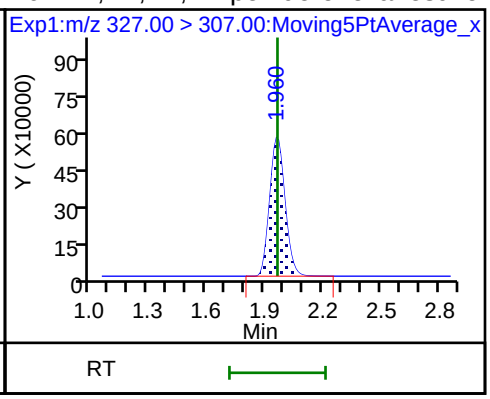
5 Perfluorobutanesulfonic acid



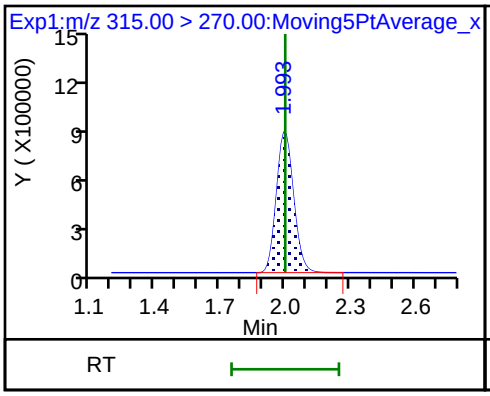
D 60 M2-4:2FTS



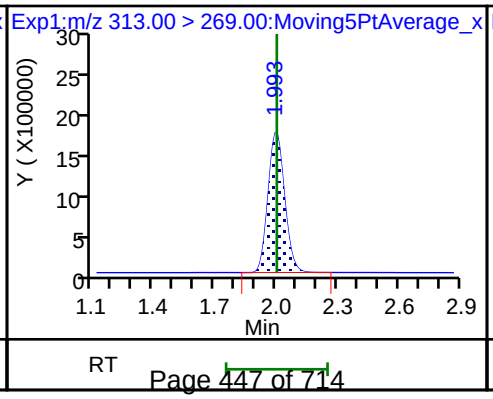
61 1H,1H,2H,2H-perfluorohexanesulfoni



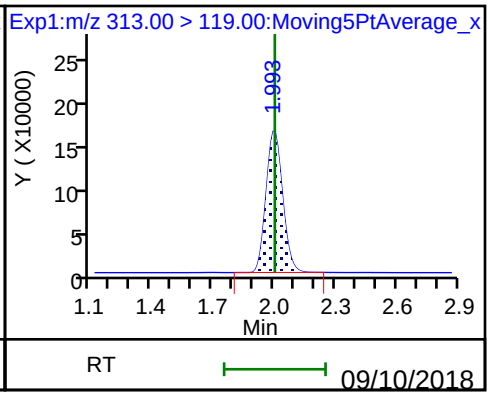
D 7 13C2 PFHxA



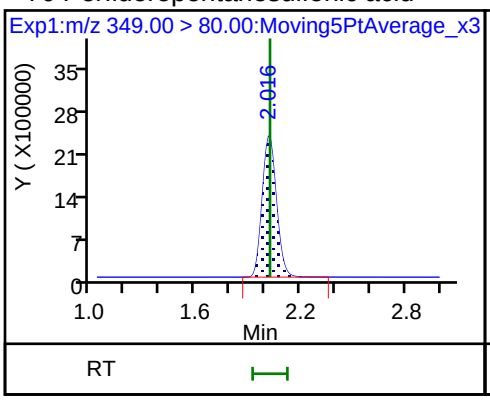
6 Perfluorohexanoic acid



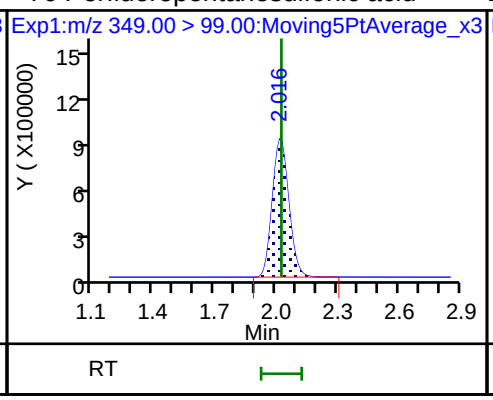
6 Perfluorohexanoic acid



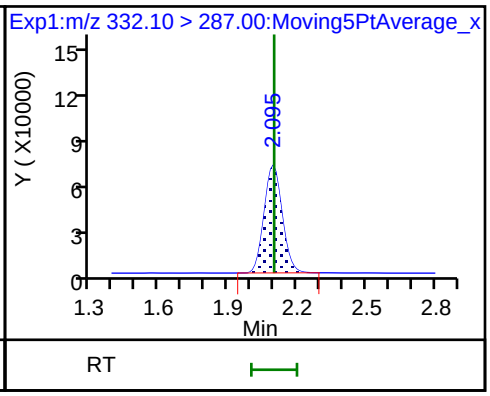
70 Perfluoropentanesulfonic acid



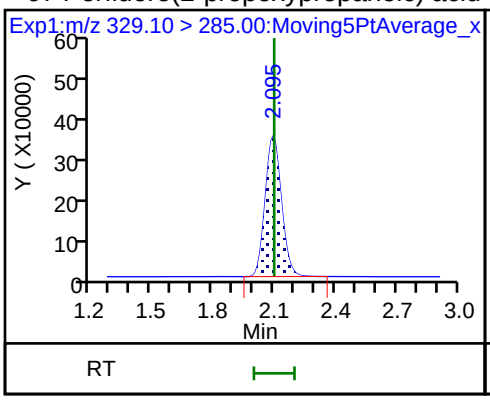
70 Perfluoropentanesulfonic acid



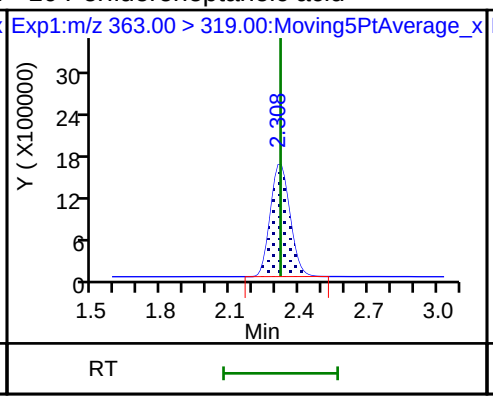
D 64 13C3 HFPO-DA



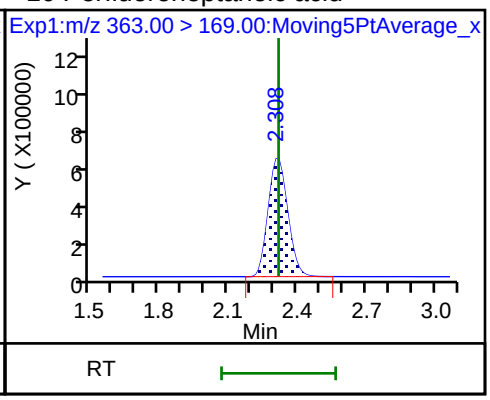
67 Perfluoro(2-propoxypropanoic) acid



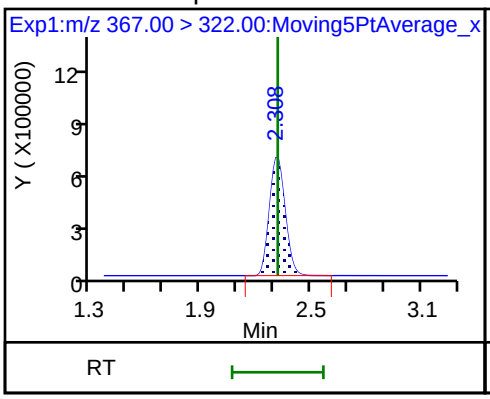
10 Perfluoroheptanoic acid



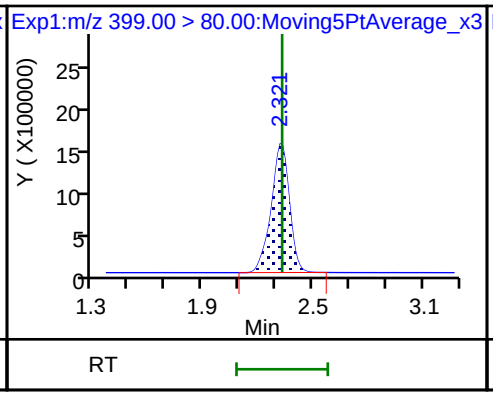
10 Perfluoroheptanoic acid



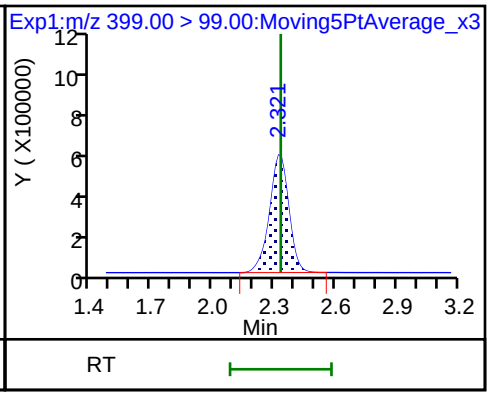
D 9 13C4-PFHpA



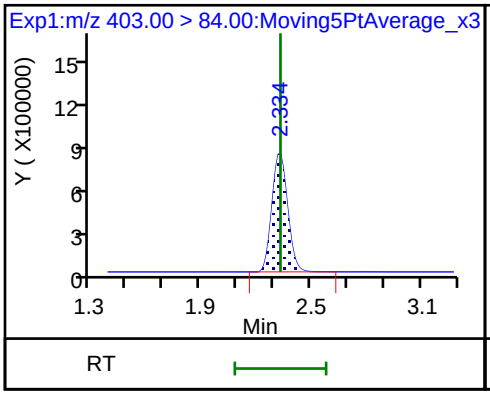
8 Perfluorohexanesulfonic acid



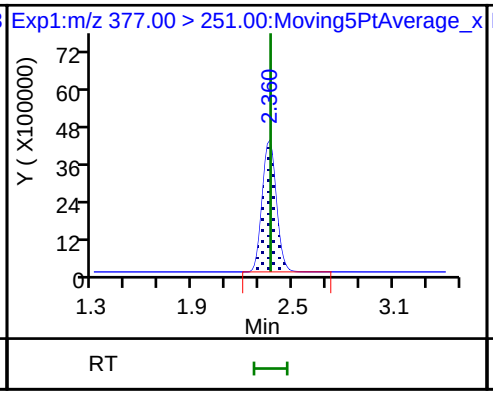
8 Perfluorohexanesulfonic acid



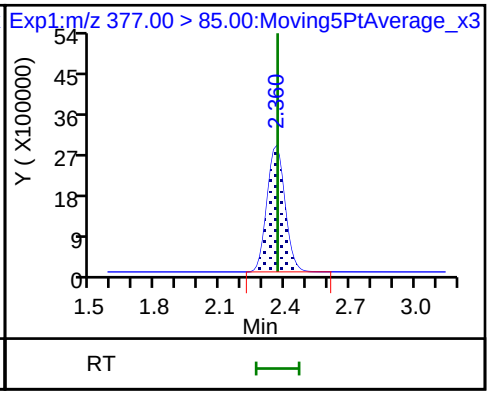
D 11 18O2 PFHxS



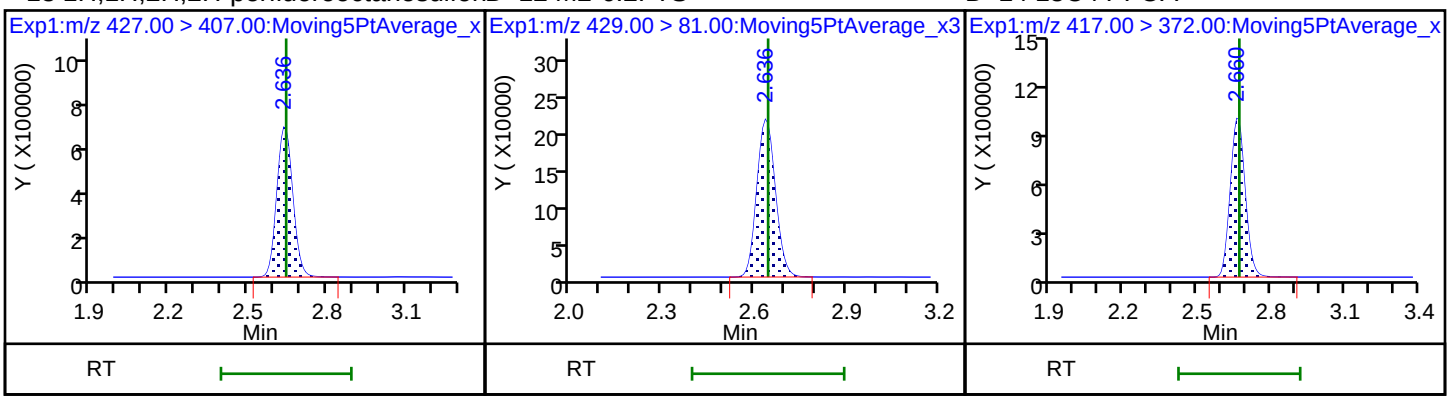
65 Adona



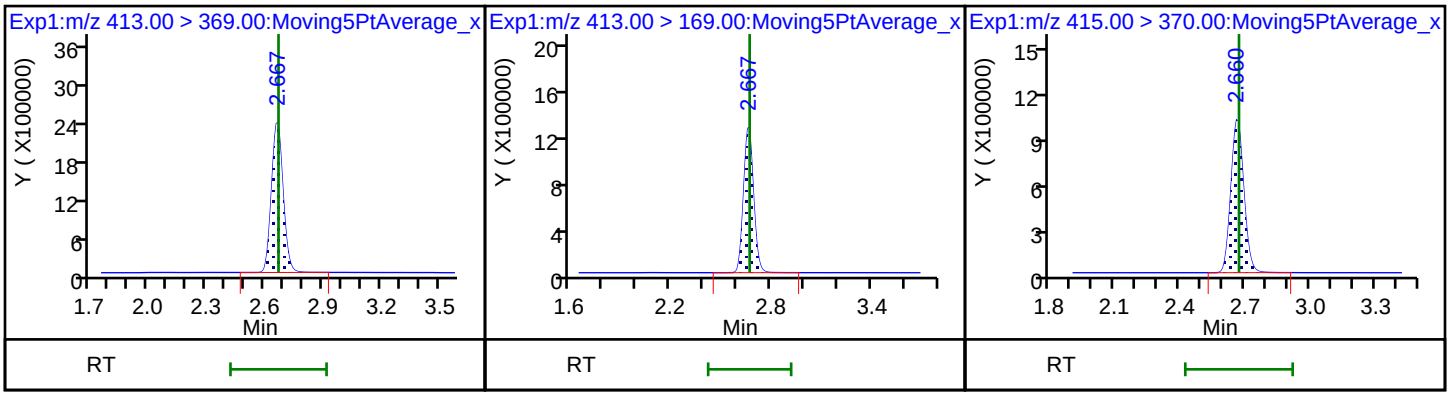
65 Adona



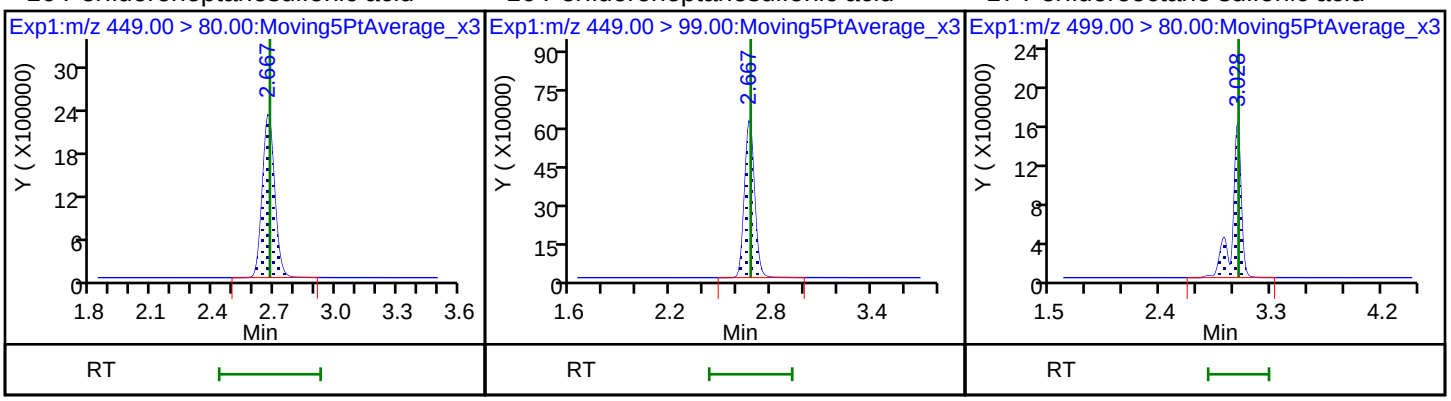
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



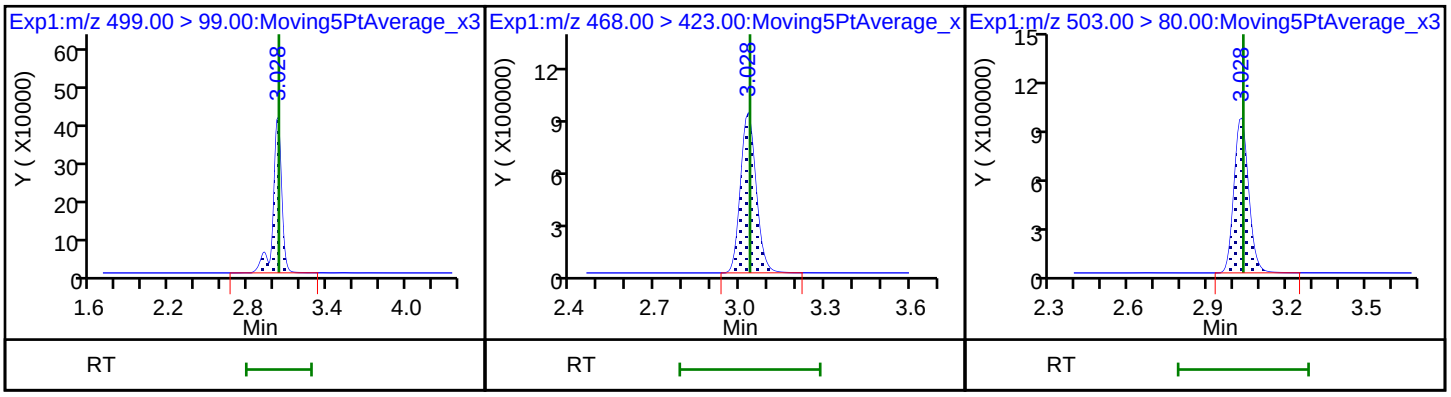
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



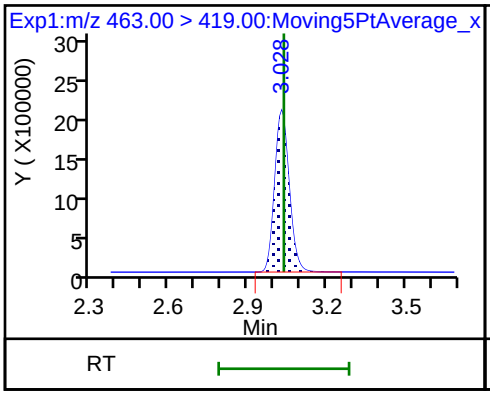
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



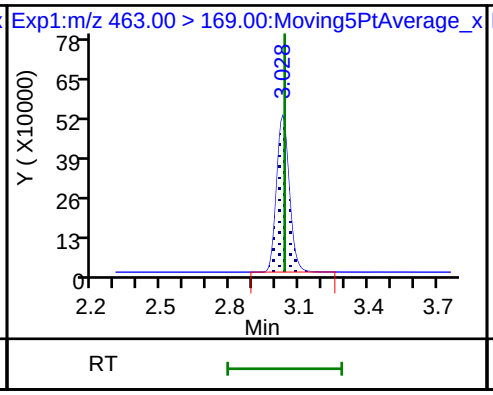
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



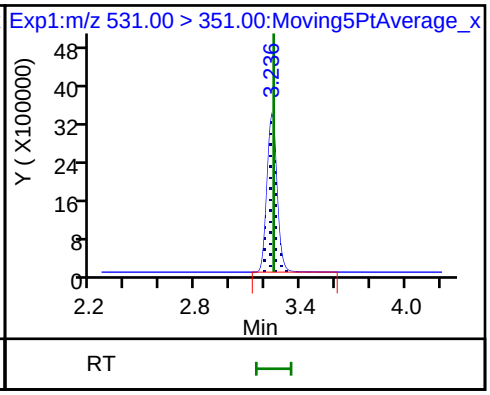
20 Perfluorononanoic acid



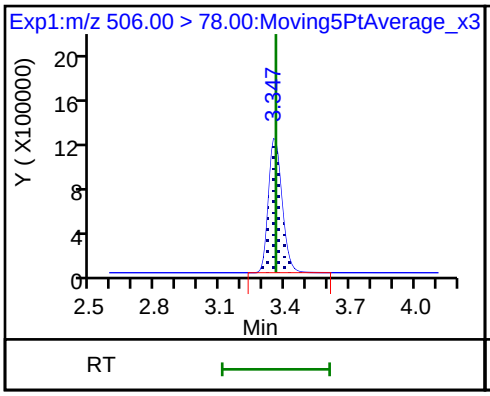
20 Perfluorononanoic acid



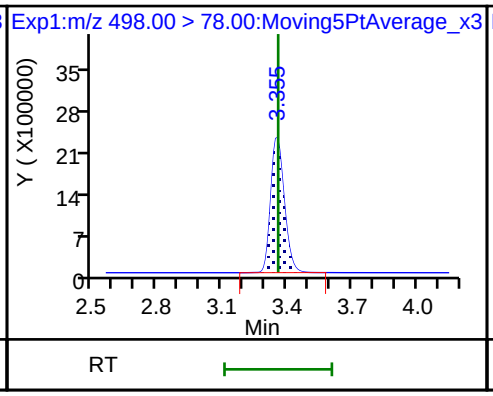
69 9-Chlorohexadecafluoro-3-oxanonane



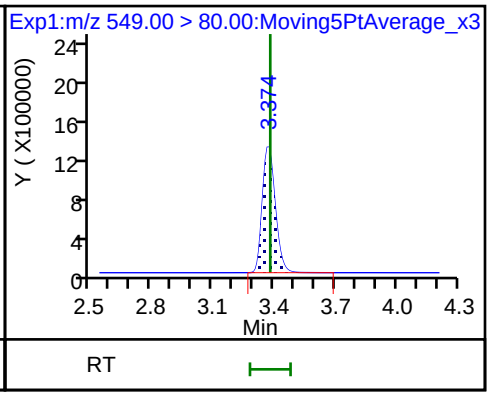
D 21 13C8 FOSA



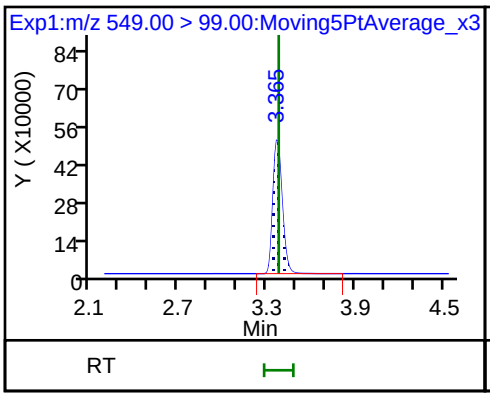
22 Perfluorooctane Sulfonamide



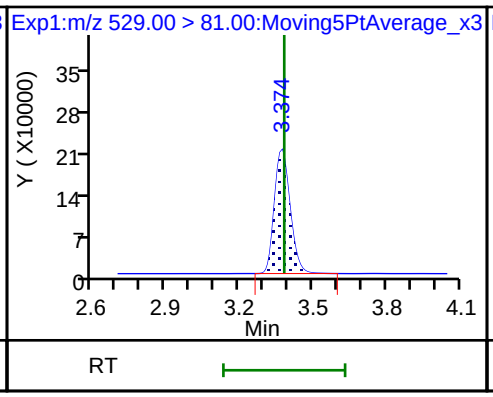
68 Perfluorononanesulfonic acid



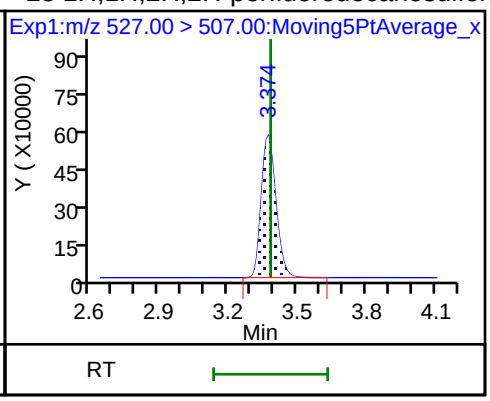
68 Perfluorononanesulfonic acid



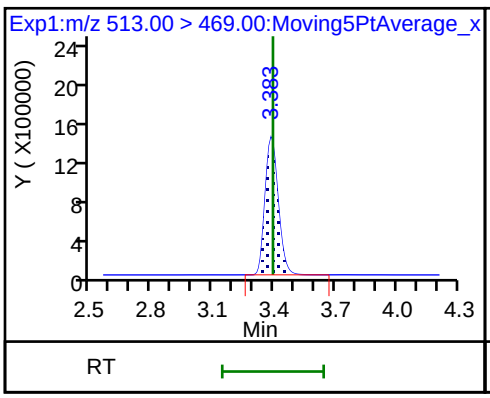
D 26 M2-8:2FTS



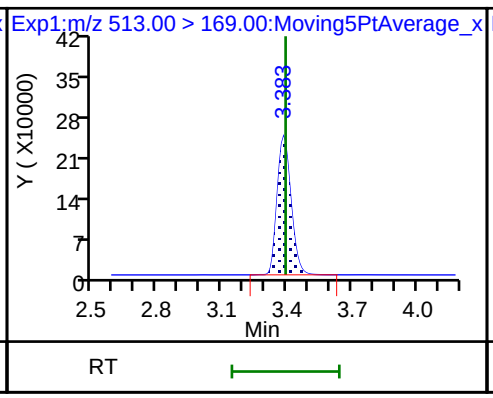
25 1H,1H,2H,2H-perfluorodecanesulfoni



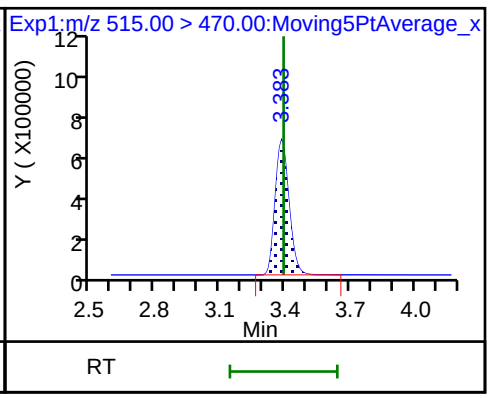
24 Perfluorodecanoic acid



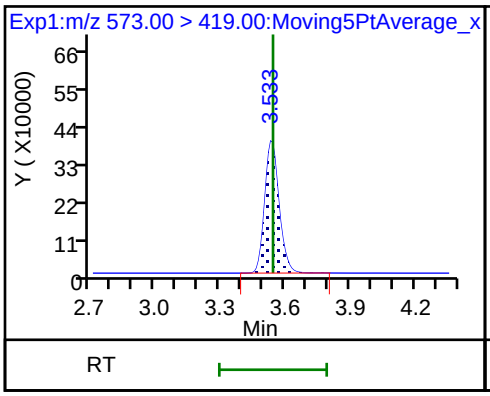
24 Perfluorodecanoic acid



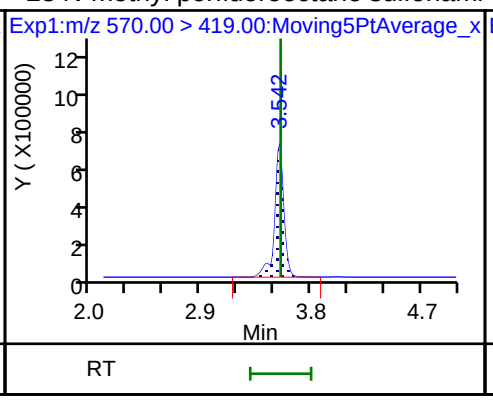
D 23 13C2 PFDA



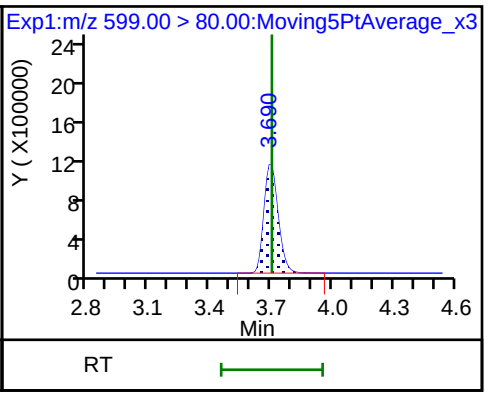
D 27 d3-NMeFOSAA



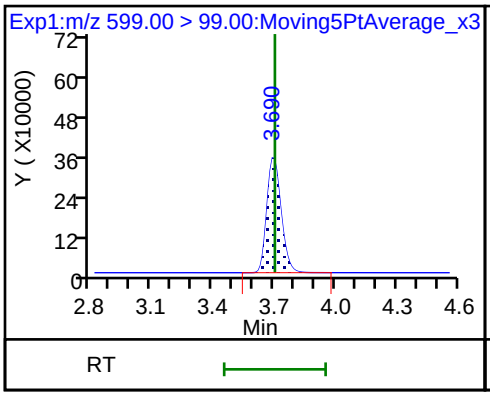
28 N-methyl perfluorooctane sulfonami



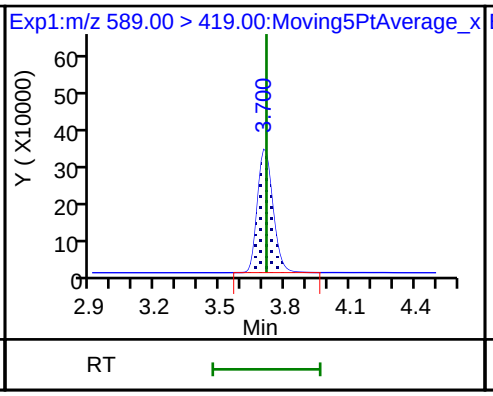
29 Perfluorodecane Sulfonic acid



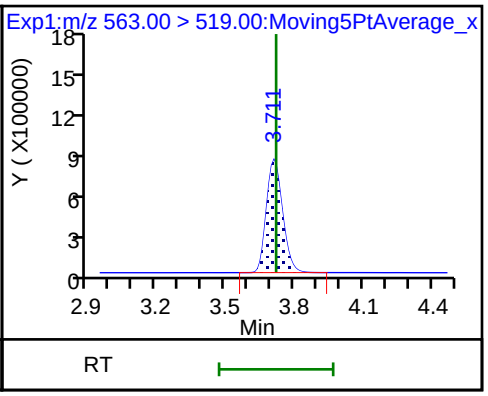
29 Perfluorodecane Sulfonic acid



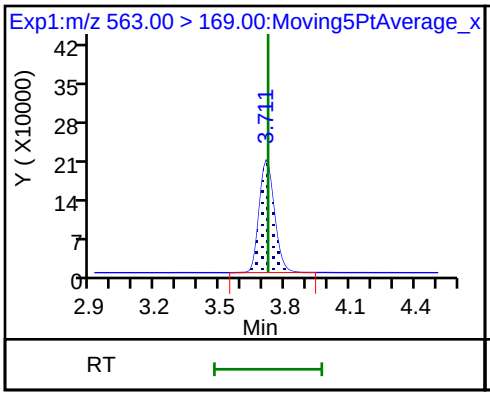
D 32 d5-NEtFOSAA



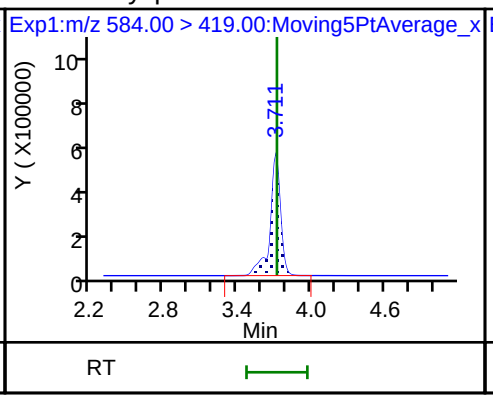
31 Perfluoroundecanoic acid



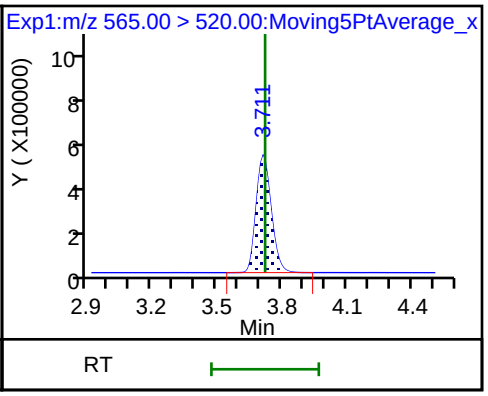
31 Perfluoroundecanoic acid



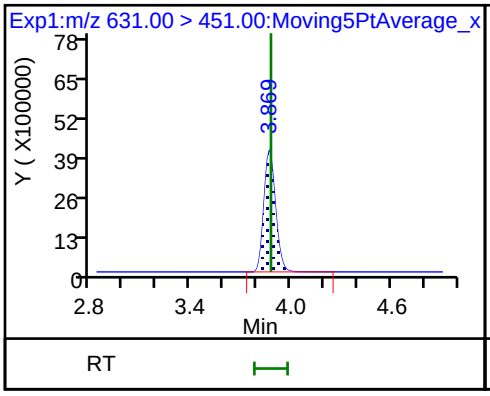
33 N-ethyl perfluorooctane sulfonamid



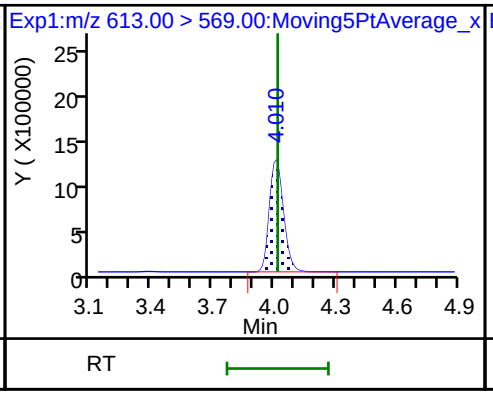
D 30 13C2 PFUnA



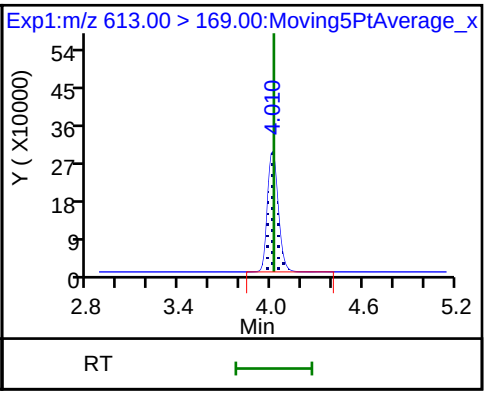
66 11-Chloroeicosafluoro-3-oxaundecan



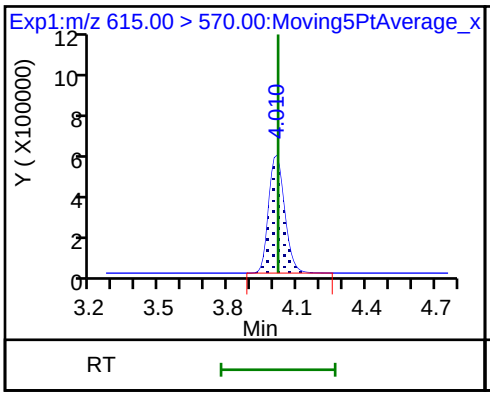
37 Perfluorododecanoic acid



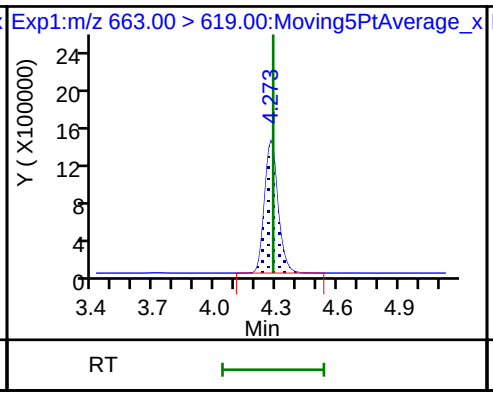
37 Perfluorododecanoic acid



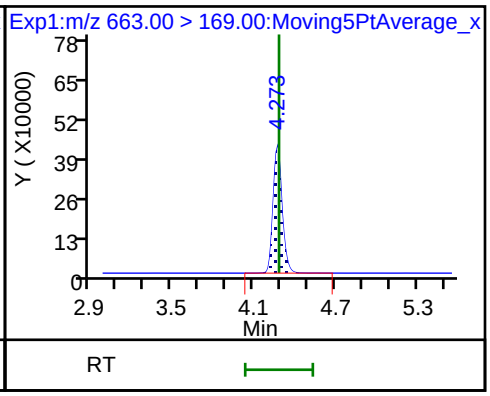
D 36 13C2 PFDoA



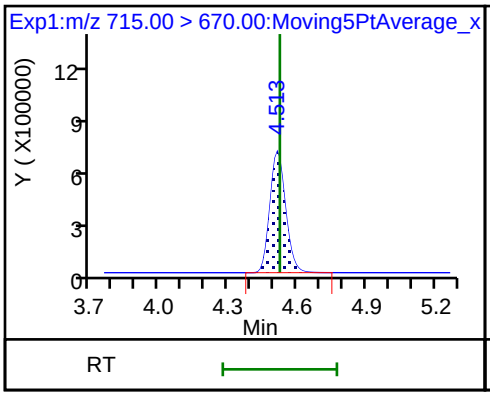
41 Perfluorotridecanoic acid



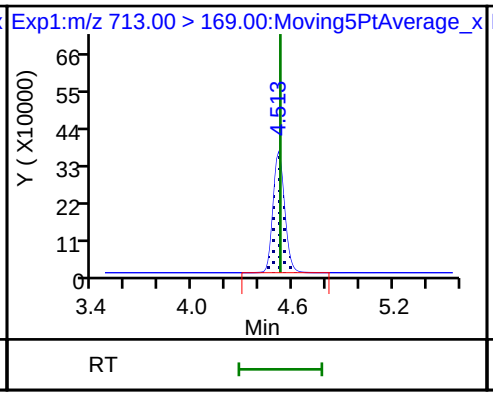
41 Perfluorotridecanoic acid



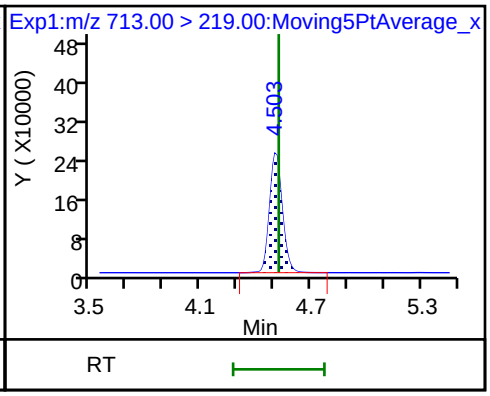
D 43 13C2-PFTeDA



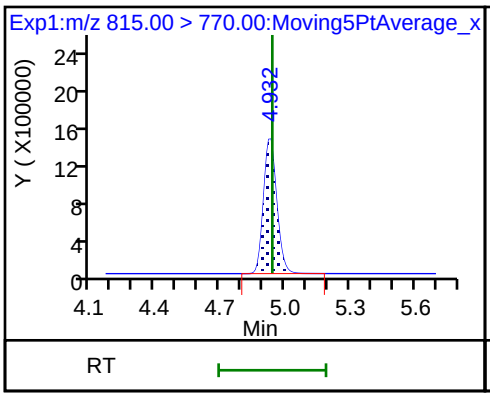
42 Perfluorotetradecanoic acid



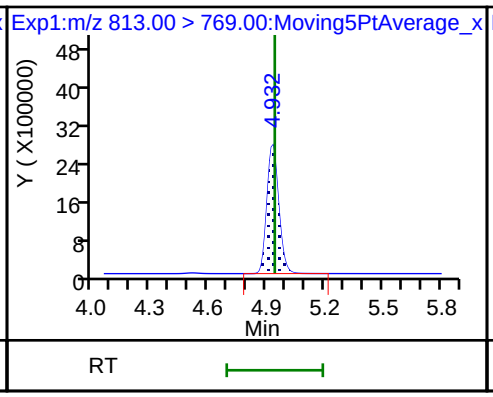
42 Perfluorotetradecanoic acid



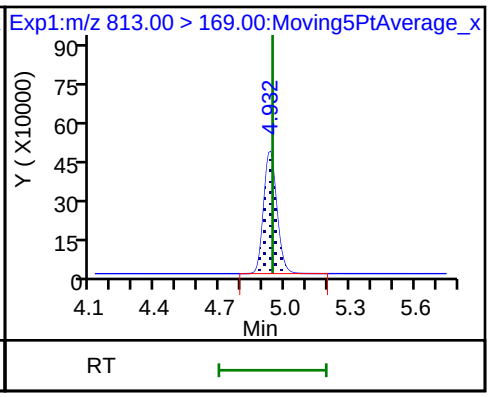
D 44 13C2-PFHxDA



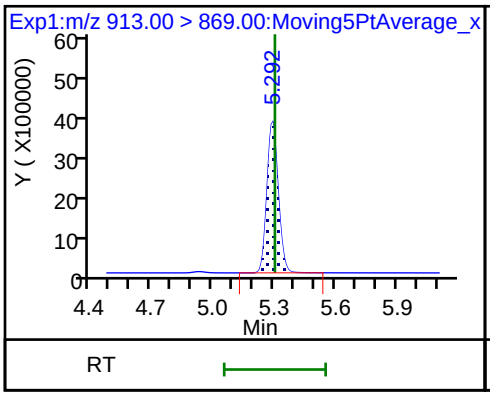
45 Perfluorohexadecanoic acid



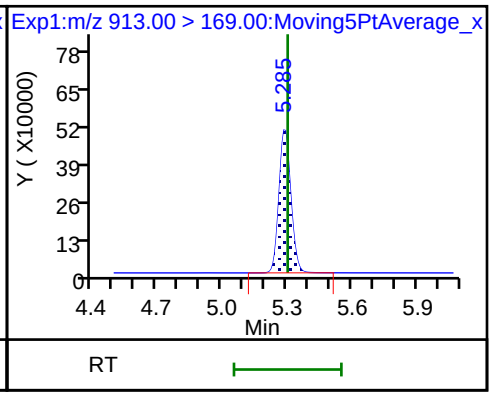
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 05-Jul-2018 09:38:17 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:39:08 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:14:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.432	0.001	0.537	6236338	2.64		105	24595	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.434	-0.001	1.000	24301343	9.54		95.4	8385	
D 3 13C5-PFPeA										
267.90 > 223.00	1.716	1.716	0.0	0.643	4455207	2.54		102	47432	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.719	-0.003	1.000	20231845	9.53		95.3	15332	
D 47 13C3-PFBS										
301.90 > 83.00	1.752	1.756	-0.004	0.657	101003	2.41		104	713	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.761	1.760	0.001	1.005	26720886	8.11		91.8	98810	
298.90 > 99.00	1.761	1.760	0.001	1.005	11741638		2.28(1.25-3.74)	91.8	101674	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.966	0.0	0.737	659919	2.45		105	9393	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.966	0.0	1.122	5926931	8.70		93.1	182167	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	2.000	-0.001	0.749	4784020	2.55		102	54735	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.999	2.002	-0.003	1.000	18820721	9.66		96.6	37072	
313.00 > 119.00	1.999	2.002	-0.003	1.000	1782628		10.56(5.03-15.10)	96.6	32241	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.025	-0.003	1.154	23714616	8.42		89.7	114113	
349.00 > 99.00	2.022	2.025	-0.003	1.154	9818889		2.42(1.36-4.07)	89.7	74538	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.099	0.002	0.788	441540	2.87		115	7439	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.099	0.002	1.000	3672079	9.04		90.4	24798	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.318	-0.003	1.000	17433793	8.96		89.6	19089	
363.00 > 169.00	2.315	2.318	-0.003	1.000	7593095		2.30(1.13-3.40)	89.6	41699	
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.318	-0.003	0.868	4305905	2.59		103	35067	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.328	2.331	-0.003	1.000	19602527	8.64		94.9	42428	
399.00 > 99.00	2.328	2.331	-0.003	1.000	7247472		2.70(1.50-4.49)	94.9	22800	
D 11 18O2 PFHxS										
403.00 > 84.00	2.328	2.333	-0.005	0.873	4642819	2.27		95.9	28231	
65 Adona										
377.00 > 251.00	2.368	2.365	0.003	0.782	40084780	7.51		79.7	68194	
377.00 > 85.00	2.368	2.365	0.003	0.782	27231082		1.47(0.84-2.53)	79.7	76354	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.645	0.0	1.000	5371036	9.51		100	22759	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	856056	2.29		96.5	14664	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.670	-0.002	1.000	4086844	2.51		100	29283	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.671	-0.003	1.000	18026746	9.30		92.9	8216	
413.00 > 169.00	2.668	2.671	-0.003	1.000	9722024		1.85(0.84-2.52)	92.9	40626	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.671	-0.003		4273995	2.50			30819	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.883	17877757	9.27		97.4	103542	
449.00 > 99.00	2.675	2.678	-0.003	0.883	5089491		3.51(1.94-5.82)	97.4	124731	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.029	3.034	-0.005	1.000	15767090	9.37		101	39551	
499.00 > 99.00	3.029	3.034	-0.005	1.000	3509122		4.49(2.31-6.93)	101	28546	
D 19 13C5 PFNA										
468.00 > 423.00	3.029	3.034	-0.005	1.135	3524695	2.54		102	43789	
D 18 13C4 PFOS										
503.00 > 80.00	3.029	3.034	-0.005	1.135	3441443	2.35		98.5	22621	
20 Perfluorononanoic acid										
463.00 > 419.00	3.029	3.036	-0.007	1.000	14824538	9.76		97.6	28217	
463.00 > 169.00	3.029	3.036	-0.007	1.000	3920101		3.78(1.90-5.69)	97.6	203427	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.246	-0.002	1.071	23819619	8.75		93.9	109480	
D 21 13C8 FOSA										
506.00 > 78.00	3.357	3.357	0.0	1.258	4912326	2.42		96.8	39113	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.357	3.358	-0.001	1.000	18768991	9.63		96.3	109747	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.376	3.379	-0.003	1.115	11100681	9.49		98.8	62308	
549.00 > 99.00	3.376	3.379	-0.003	1.115	4125927		2.69(1.33-3.97)	98.8	71242	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.376	3.382	-0.006	1.265	908289	2.19		91.3	13581	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.376	3.383	-0.007	1.000	4929744	9.84		103	84731	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.385	3.393	-0.008	1.000	12003817	10.2		102	36647	
513.00 > 169.00	3.385	3.393	-0.008	1.000	2074529		5.79(2.36-7.09)	102	42255	
D 23 13C2 PFDA										
515.00 > 470.00	3.385	3.393	-0.008	1.269	2835454	2.37		94.9	28852	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.535	3.543	-0.008	1.325	1836553	2.61		104	26799	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.544	3.551	-0.007	1.003	7199550	9.52		95.2	42030	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.694	3.702	-0.008	1.220	10090938	9.74		101	230854	
599.00 > 99.00	3.694	3.702	-0.008	1.220	3279452		3.08(1.39-4.16)	101	84106	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.705	3.713	-0.008	1.389	1656649	2.38		95.2	13918	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.715	3.721	-0.006	1.000	8101412	9.88		98.8	27557	
563.00 > 169.00	3.715	3.721	-0.006	1.000	2010700		4.03(2.12-6.36)	98.8	29277	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.715	3.721	-0.006	1.003	5685758	9.52		95.2	36655	
D 30 13C2 PFUnA										
565.00 > 520.00	3.715	3.721	-0.006	1.393	2411181	2.40		96.1	23453	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.873	3.879	-0.006	1.279	33573732	8.08		85.8	568422	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.006	4.016	-0.010	1.000	11402368	9.64		96.4	10558	
613.00 > 169.00	4.006	4.016	-0.010	1.000	2757575		4.13(2.13-6.40)	96.4	26108	
D 36 13C2 PFDoA										
615.00 > 570.00	4.006	4.016	-0.010	1.502	2682397	2.49		99.7	14047	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.279	4.284	-0.005	1.068	12175469	9.24		92.4	10602	
663.00 > 169.00	4.279	4.284	-0.005	1.068	4071287		2.99(1.25-3.76)	92.4	25179	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.521	4.524	-0.003	1.695	3133566	2.39		95.6	13285	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.521	4.524	-0.003	1.000	3354737	9.88		98.8	24856	
713.00 > 219.00	4.511	4.524	-0.013	0.998	2302197		1.46(0.71-2.13)	98.8	15045	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.930	4.940	-0.010	1.848	5779000	2.38		95.2	13310	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.930	4.941	-0.011	1.000	20680874	9.40		94.0	7306	
813.00 > 169.00	4.930	4.941	-0.011	1.000	3850814		5.37(2.86-8.58)	94.0	15076	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.291	5.302	-0.011	1.073	24976341	9.28		92.8	5397	
913.00 > 169.00	5.291	5.302	-0.011	1.073	3473288		7.19(3.83-11.48)	92.8	13301	

Reagents:

LCPFC_LL7_00005 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:39:09 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Injection Date: 05-Jul-2018 09:38:17 Instrument ID: A8_N

Lims ID: IC L7 Full

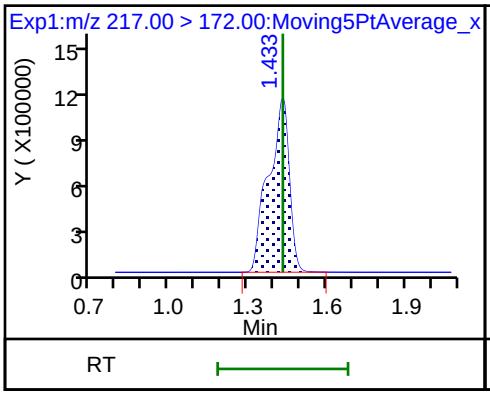
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

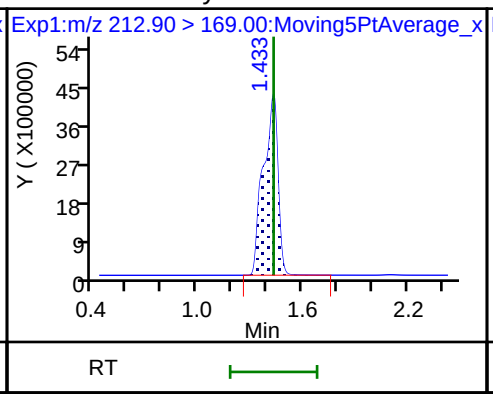
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

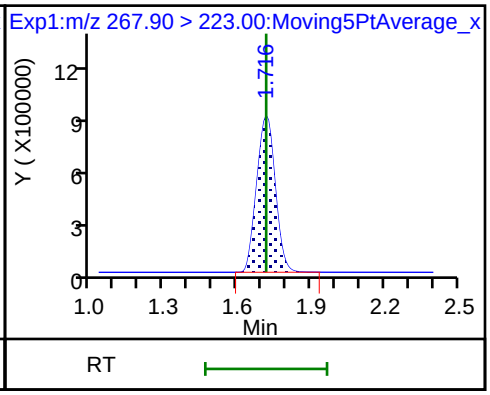
D 1 13C4 PFBA



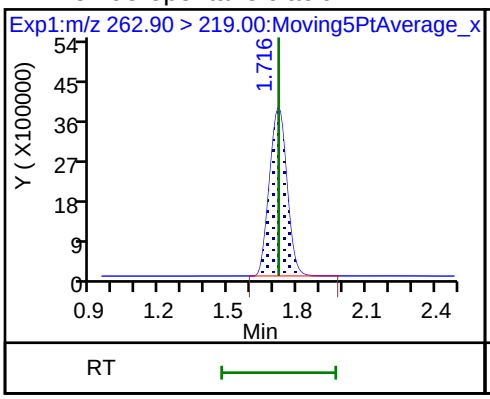
2 Perfluorobutyric acid



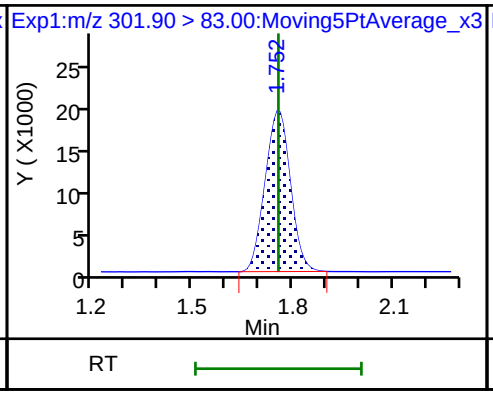
D 3 13C5-PFPeA



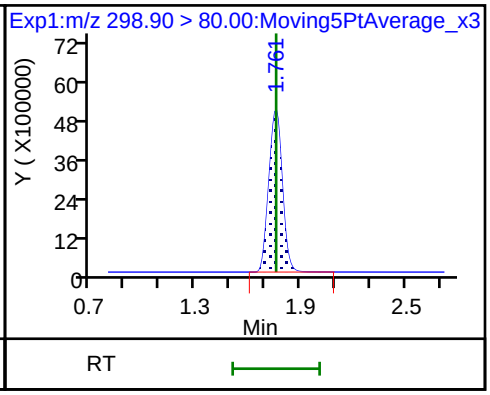
4 Perfluoropentanoic acid



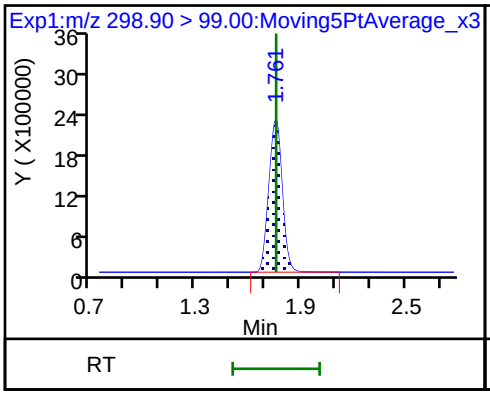
D 47 13C3-PFBS



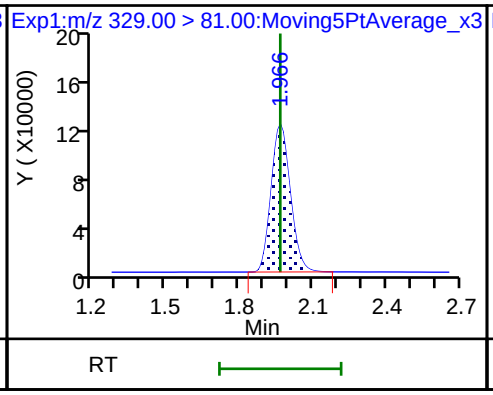
5 Perfluorobutanesulfonic acid



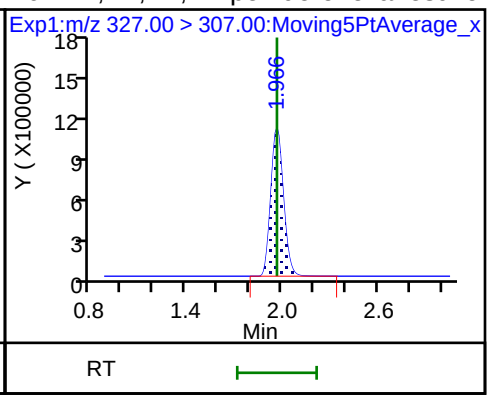
5 Perfluorobutanesulfonic acid



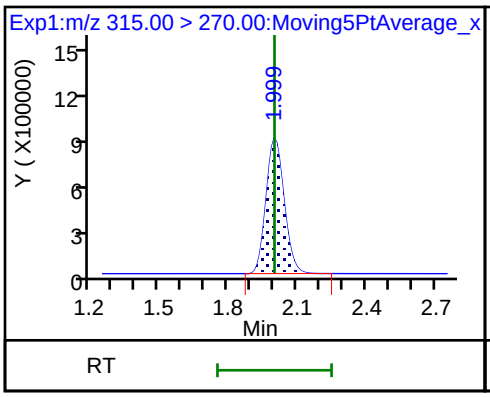
D 60 M2-4:2FTS



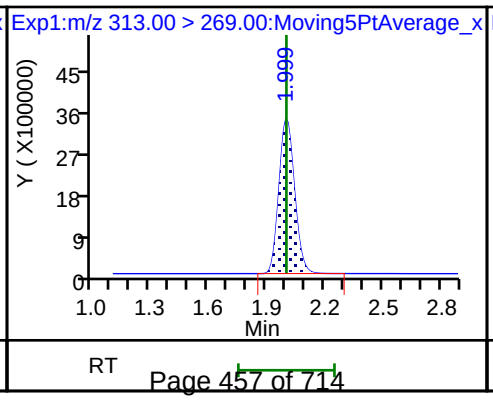
61 1H,1H,2H,2H-perfluorohexanesulfoni



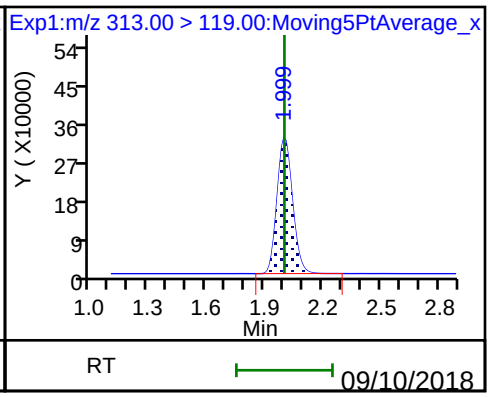
D 7 13C2 PFHxA



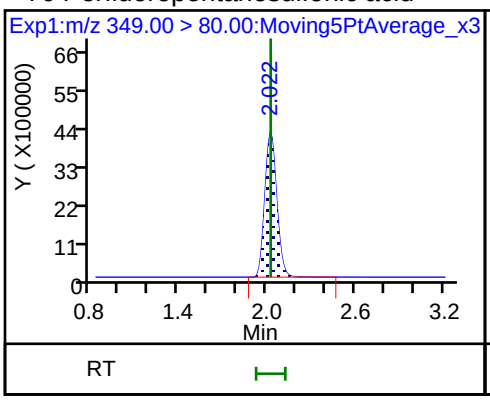
6 Perfluorohexanoic acid



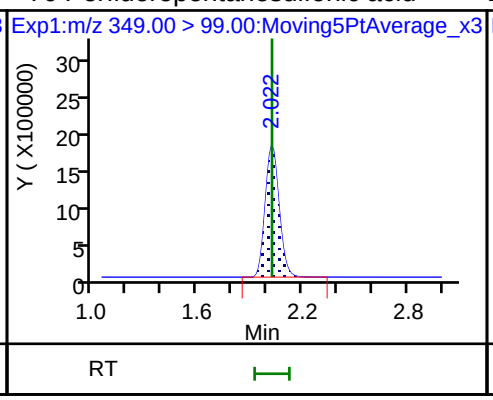
6 Perfluorohexanoic acid



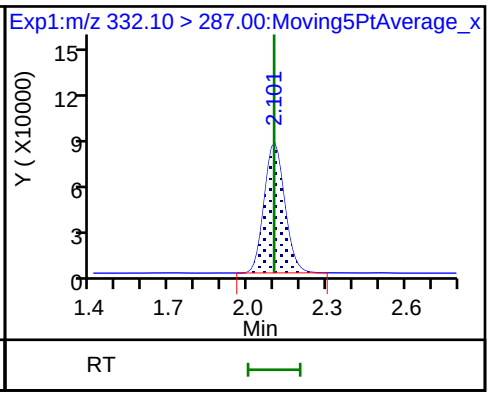
70 Perfluoropentanesulfonic acid



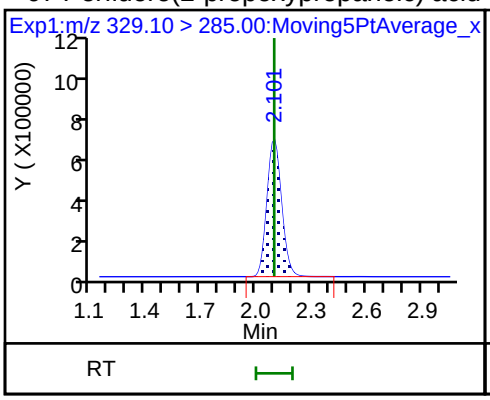
70 Perfluoropentanesulfonic acid



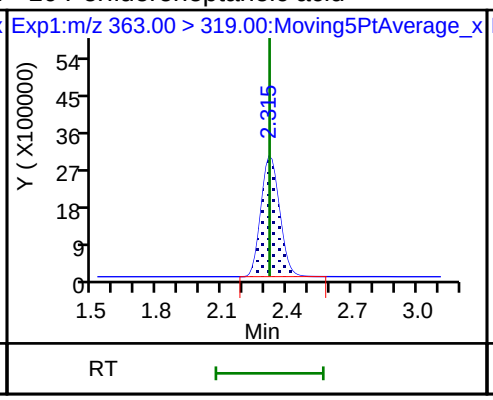
D 64 13C3 HFPO-DA



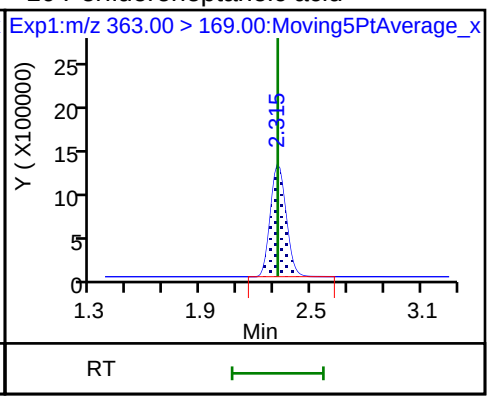
67 Perfluoro(2-propoxypropanoic) acid



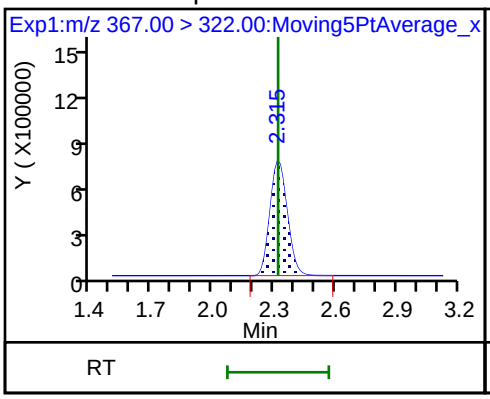
10 Perfluoroheptanoic acid



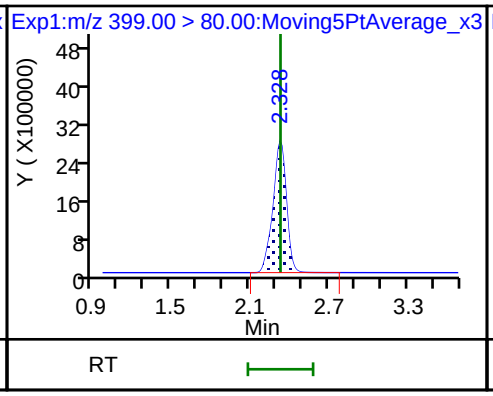
10 Perfluoroheptanoic acid



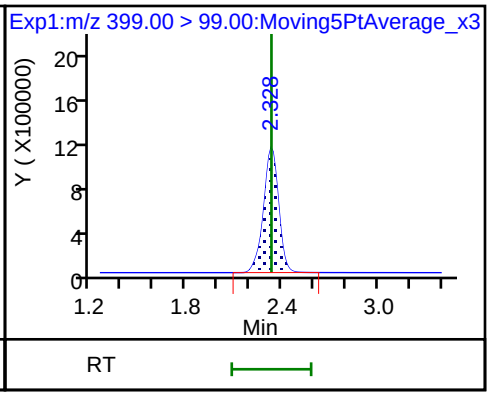
D 9 13C4-PFHpA



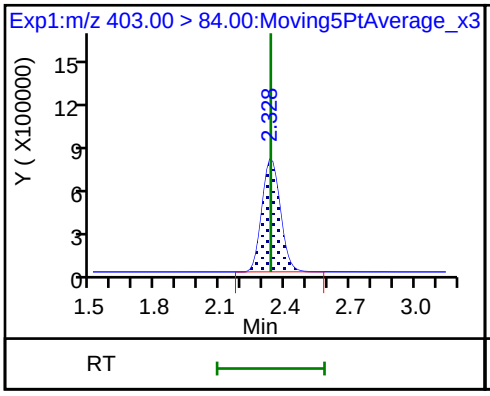
8 Perfluorohexanesulfonic acid



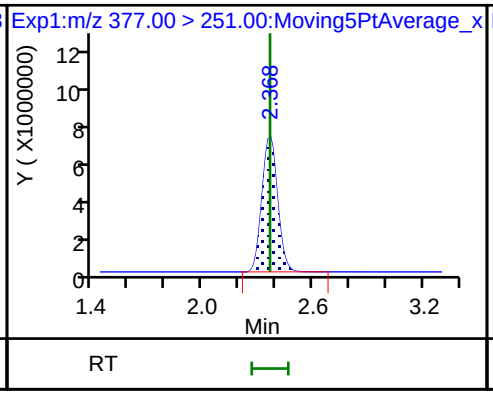
8 Perfluorohexanesulfonic acid



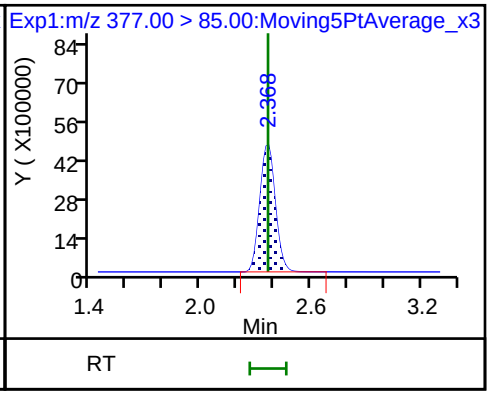
D 11 18O2 PFHxS



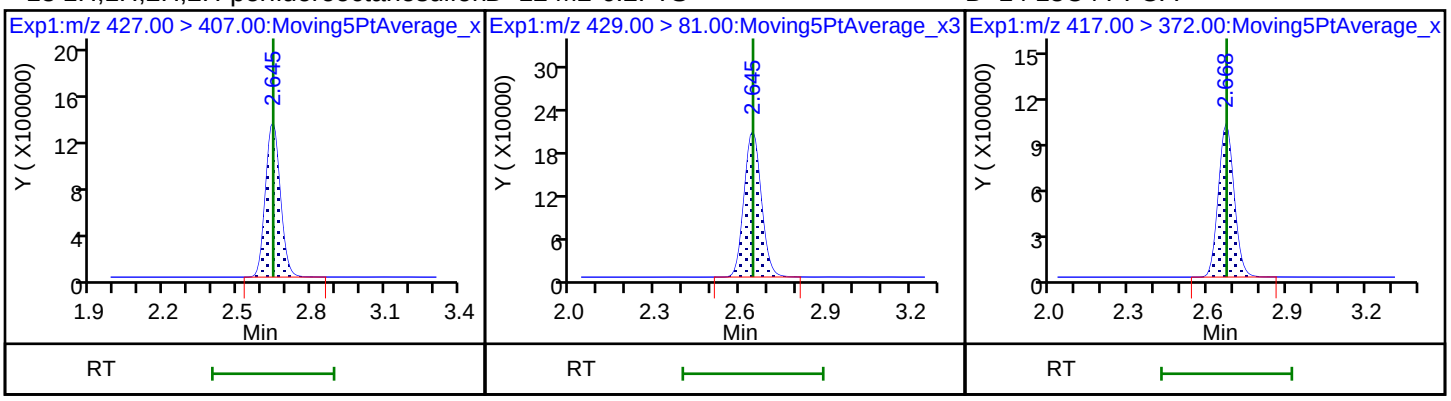
65 Adona



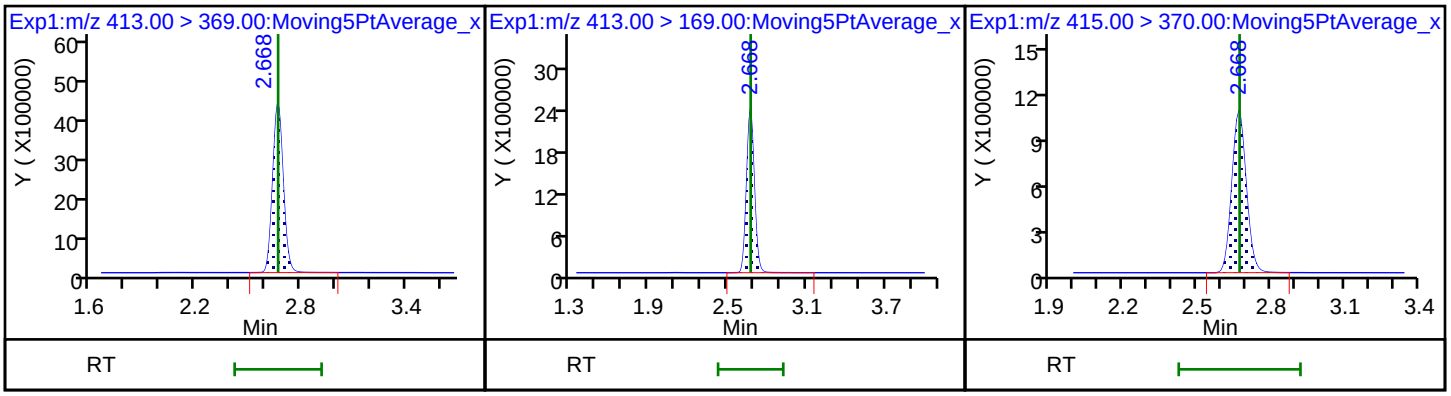
65 Adona



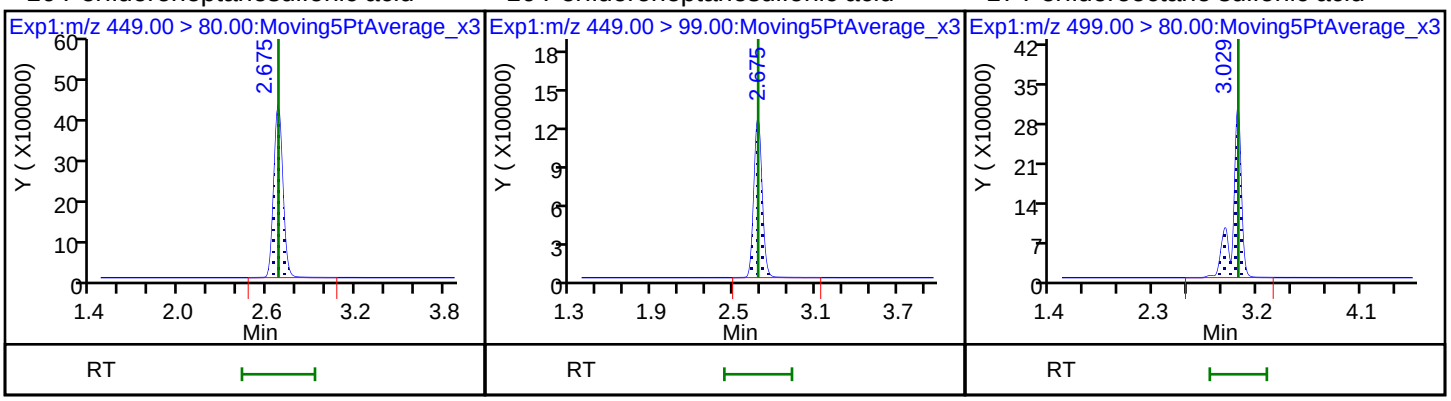
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



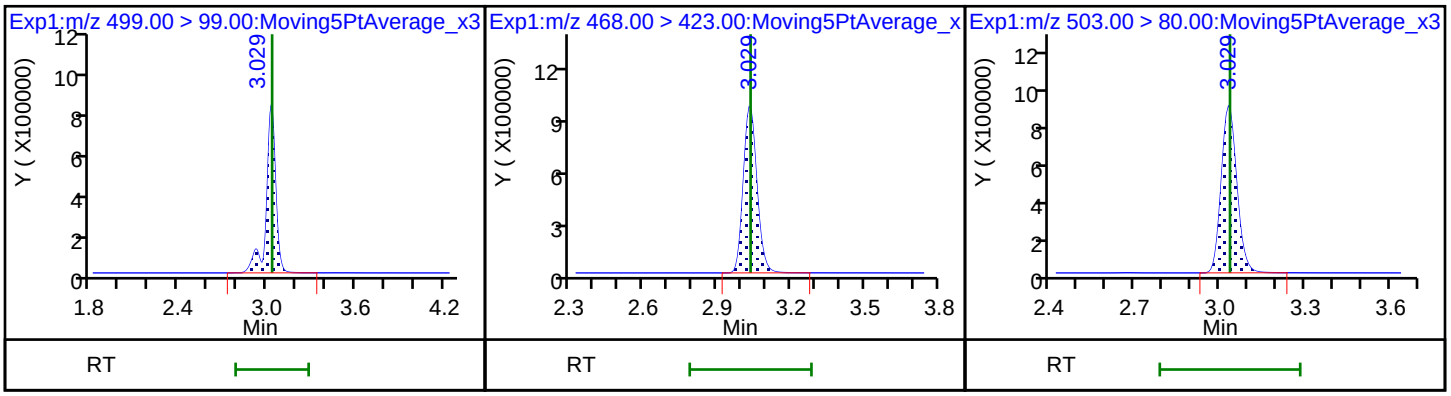
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



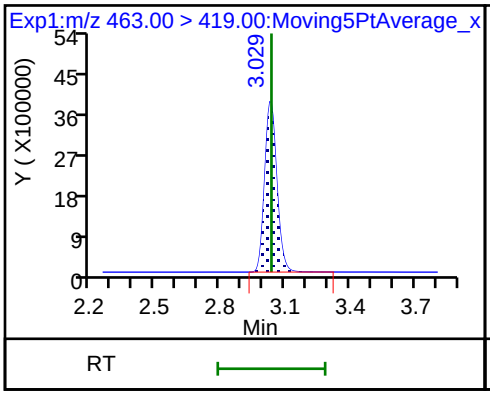
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



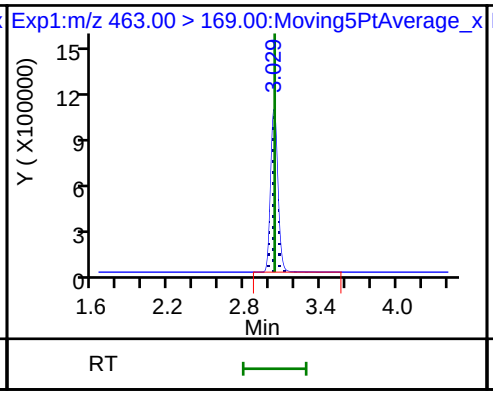
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



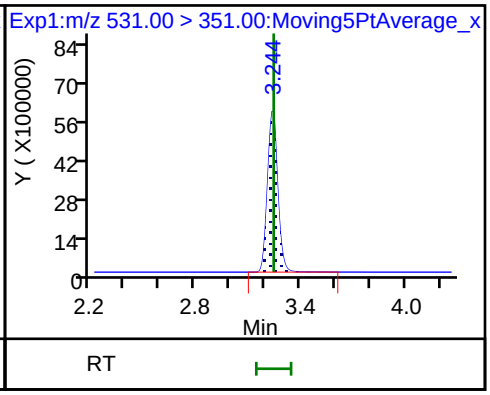
20 Perfluorononanoic acid



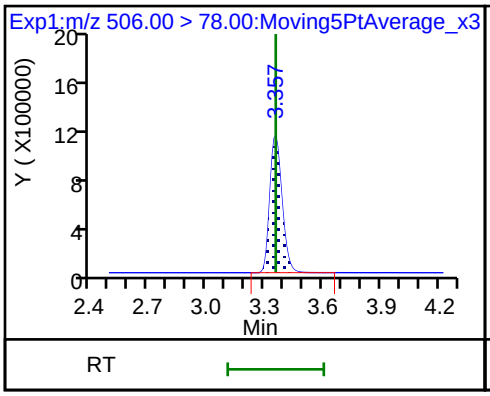
20 Perfluorononanoic acid



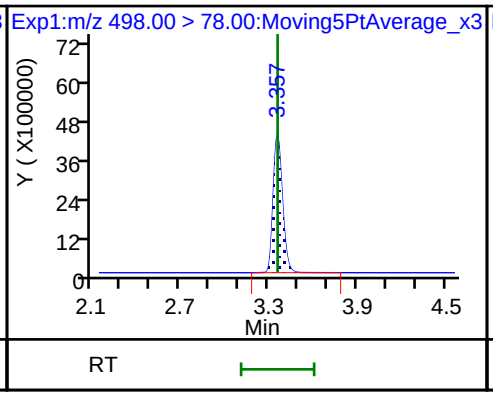
69 9-Chlorohexadecafluoro-3-oxanonane



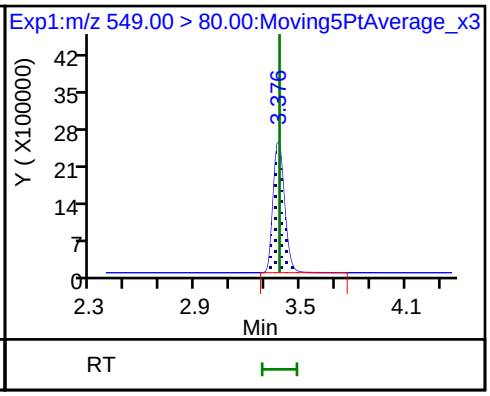
D 21 13C8 FOSA



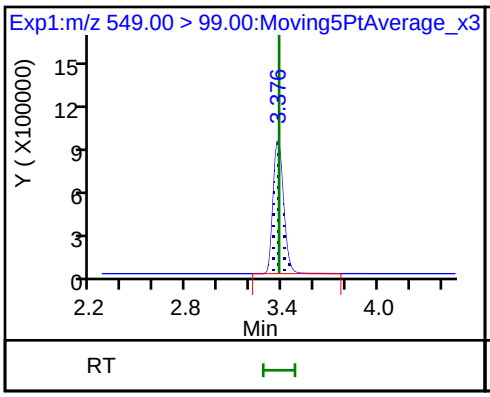
22 Perfluorooctane Sulfonamide



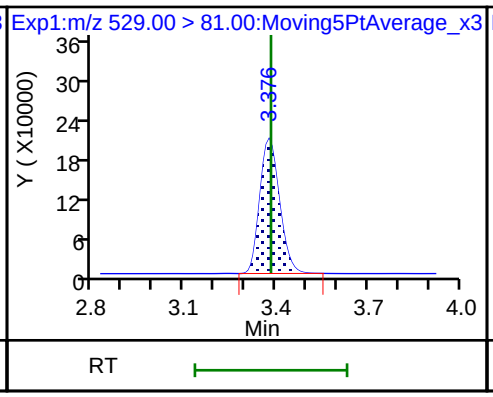
68 Perfluorononanesulfonic acid



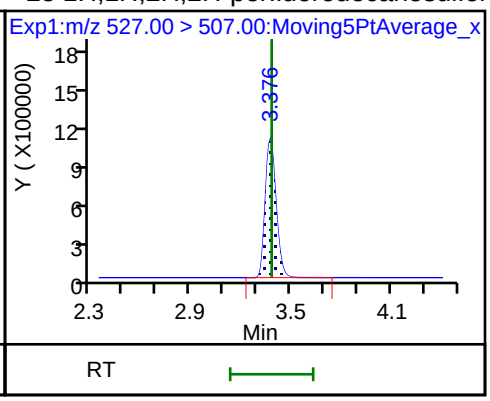
68 Perfluorononanesulfonic acid



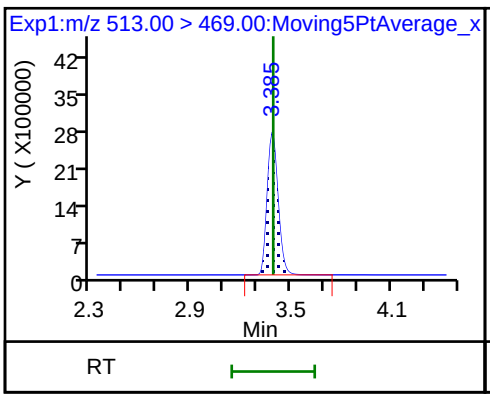
D 26 M2-8:2FTS



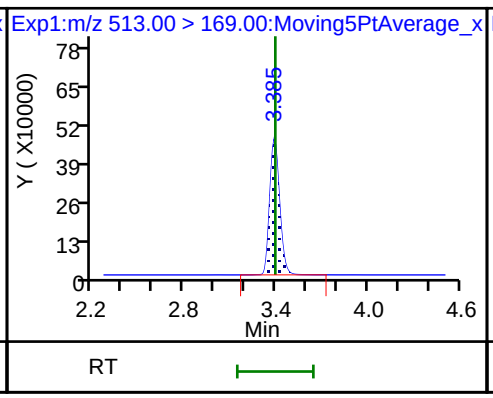
25 1H,1H,2H,2H-perfluorodecanesulfoni



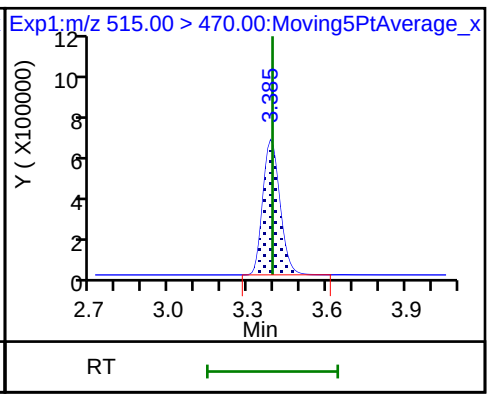
24 Perfluorodecanoic acid



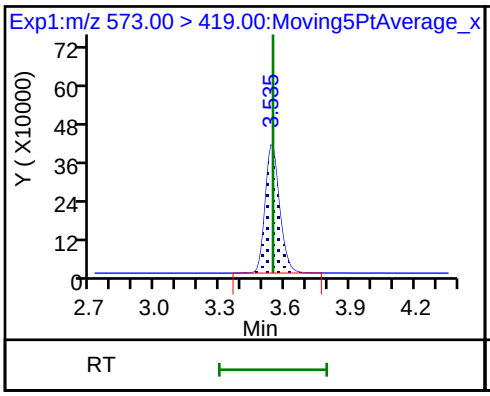
24 Perfluorodecanoic acid



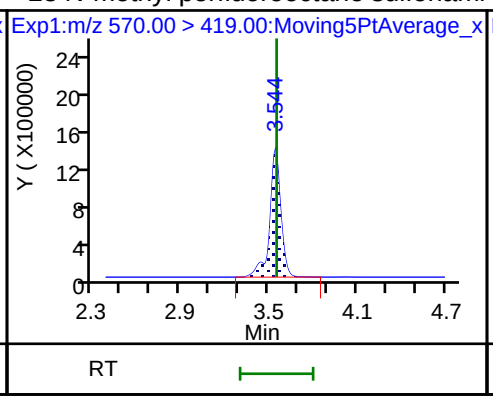
D 23 13C2 PFDA



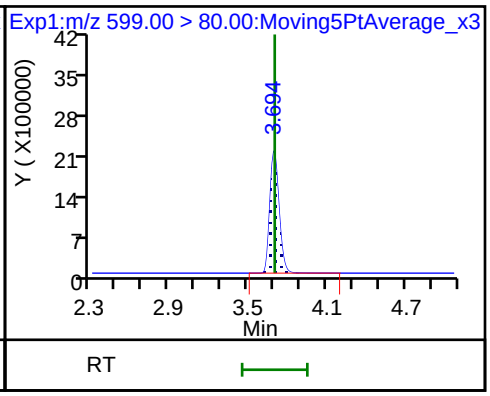
D 27 d3-NMeFOSAA



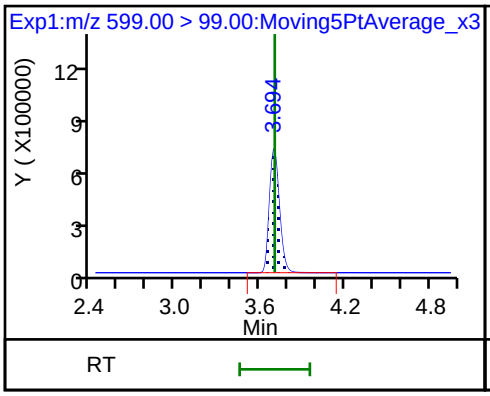
28 N-methyl perfluorooctane sulfonami



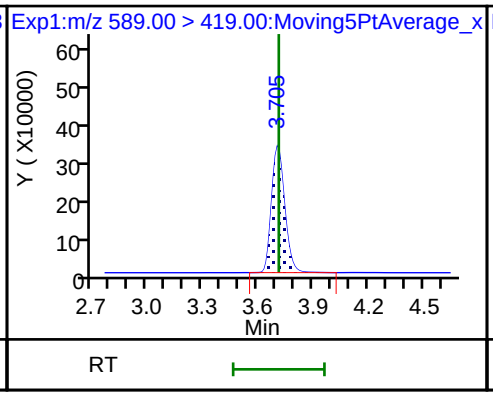
29 Perfluorodecane Sulfonic acid



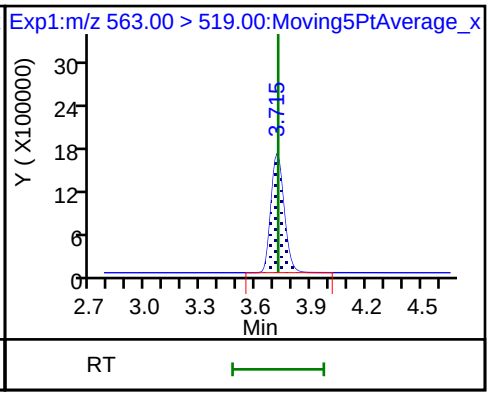
29 Perfluorodecane Sulfonic acid



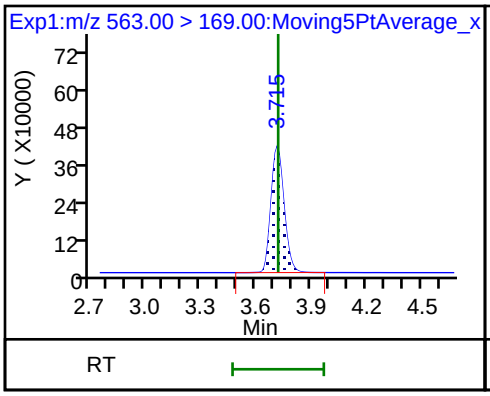
D 32 d5-NEtFOSAA



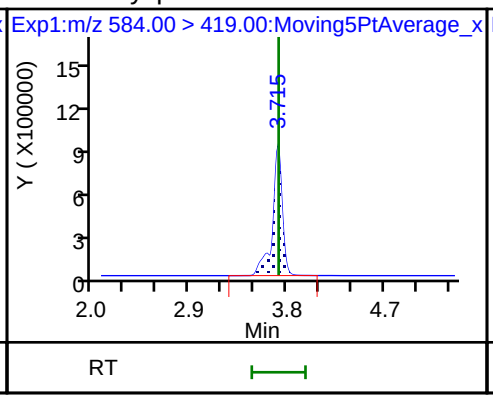
31 Perfluoroundecanoic acid



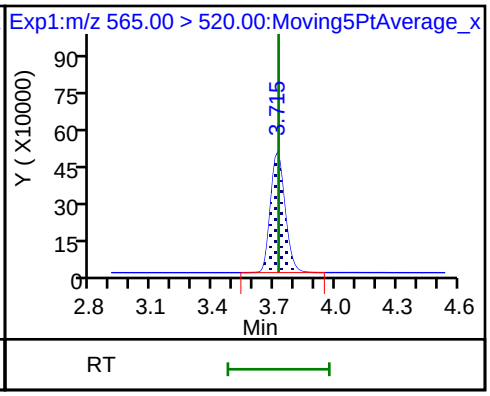
31 Perfluoroundecanoic acid



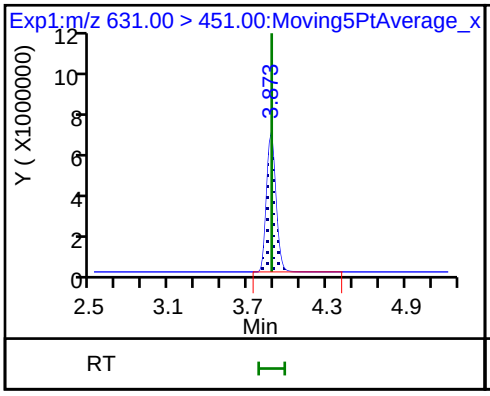
33 N-ethyl perfluorooctane sulfonamid



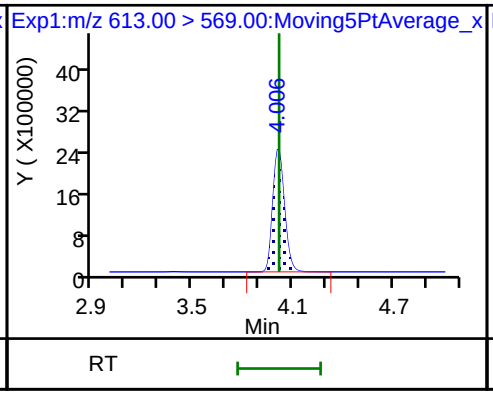
D 30 13C2 PFUnA



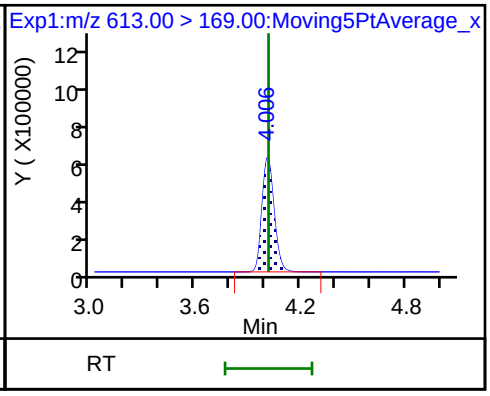
66 11-Chloroeicosafluoro-3-oxaundecan



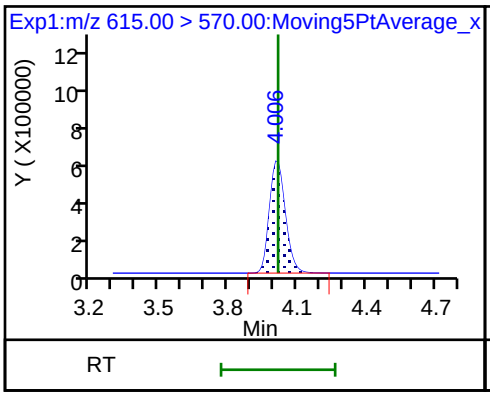
37 Perfluorododecanoic acid



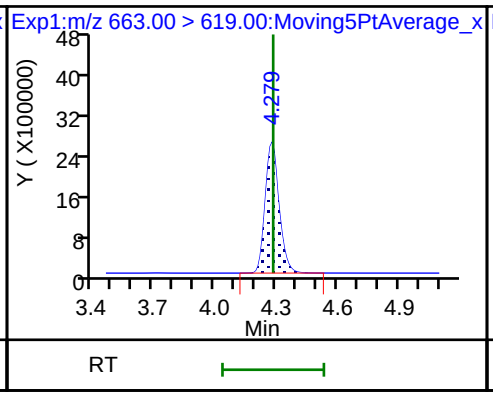
37 Perfluorododecanoic acid



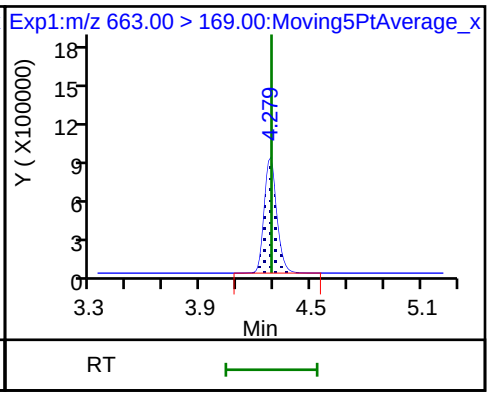
D 36 13C2 PFDoA



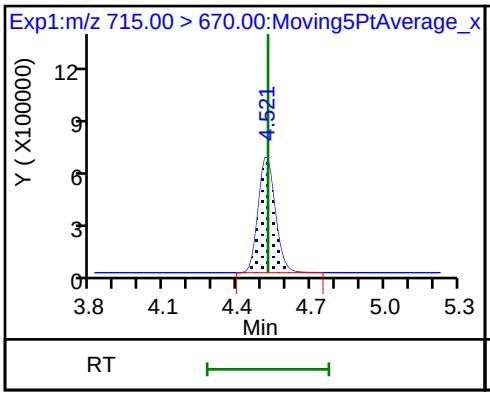
41 Perfluorotridecanoic acid



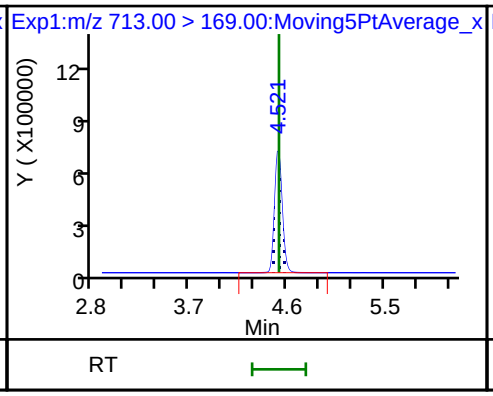
41 Perfluorotridecanoic acid



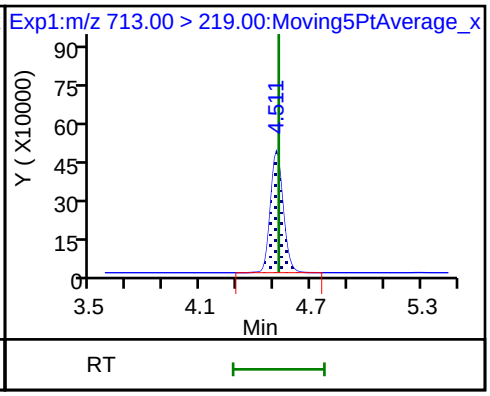
D 43 13C2-PFTeDA



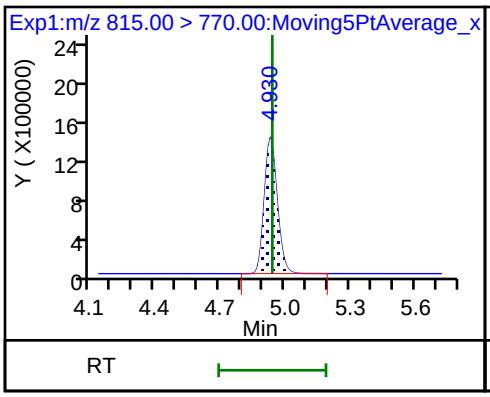
42 Perfluorotetradecanoic acid



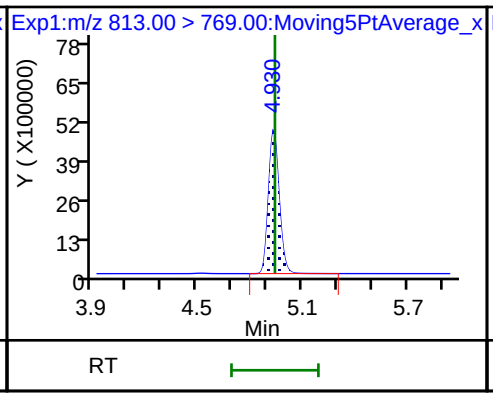
42 Perfluorotetradecanoic acid



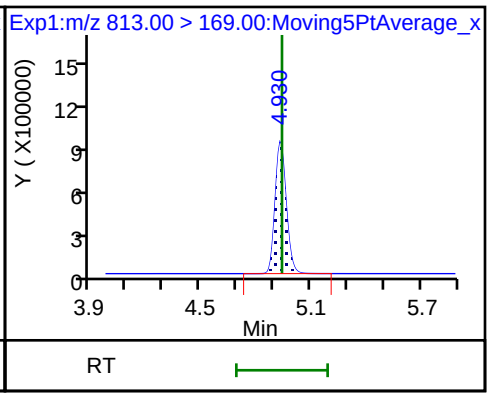
D 44 13C2-PFHxDA



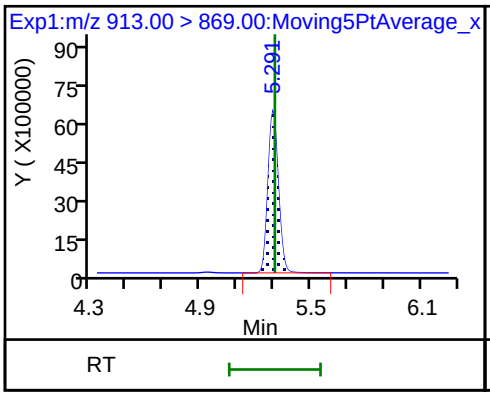
45 Perfluorohexadecanoic acid



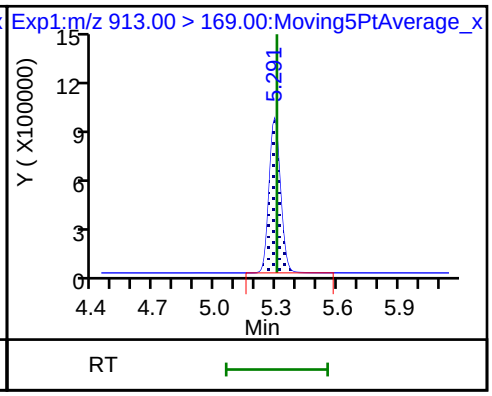
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-233476/2	2018.07.11LLICALA_002.d
Level 2	IC 320-233476/3	2018.07.11LLICALA_003.d
Level 3	IC 320-233476/4	2018.07.11LLICALA_004.d
Level 4	IC 320-233476/5	2018.07.11LLICALA_005.d
Level 5	IC 320-233476/6	2018.07.11LLICALA_006.d
Level 6	IC 320-233476/7	2018.07.11LLICALA_007.d
Level 7	IC 320-233476/8	2018.07.11LLICALA_008.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	+++++ 1.0129	0.9718 0.9875	0.9741	0.9685	0.9987	AveID		0.9856				1.8		35.0			
Perfluoropentanoic acid (PFPeA)	1.3707 1.1646	1.3311 1.1446	1.1808	1.1434	1.1567	AveID		1.2131				7.9		35.0			
Perfluorobutanesulfonic acid (PFBS)	79.113 76.960	76.692 70.480	75.620	75.784	80.820	AveID		76.496				4.2		50.0			
4:2 FTS	13.538 13.122	12.667 12.442	13.653	12.881	12.690	AveID		12.999				3.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.0307 1.0261	1.1305 0.9984	0.9842	1.0000	1.0353	AveID		1.0293				4.7		35.0			
Perfluoropentanesulfonic acid (PFPeS)	73.006 70.441	70.339 63.345	65.432	72.240	73.667	AveID		69.781				5.6		50.0			
HFPO-DA (GenX)	2.5472 2.8353	2.7762 2.6352	2.8143	2.4733	2.4973	AveID		2.6541				5.8		35.0			
Perfluoroheptanoic acid (PFHpA)	1.2918 1.1087	1.2500 1.0814	1.1033	1.0989	1.1620	AveID		1.1566				7.2		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3490 1.1211	1.1536 1.1001	1.1020	1.0938	1.1158	AveID		1.1479				7.9		35.0			
ADONA	3.3185 3.1056	3.2281 2.4104	3.4906	3.4928	3.4845	AveID		3.2186				12.0		50.0			
6:2 FTS	1.4307 1.5705	1.5312 1.6799	1.5392	1.5534	1.6458	AveID		1.5644				5.2		35.0			
Perfluorooctanoic acid (PFOA)	1.4929 1.1887	1.3327 1.1135	1.2003	1.1335	1.1592	AveID		1.2315				11.0		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.3509 1.3688	1.2372 1.2042	1.2775	1.3810	1.4032	AveID		1.3175				5.9		50.0			
Perfluorooctanesulfonic acid (PFOS)	1.1761 1.1316	1.1320 1.0970	1.1094	1.1393	1.1467	AveID		1.1332				2.3		35.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorononanoic acid (PFNA)	1.1492 1.1085	1.1038 1.0564	1.1540	1.0890	1.1045	AveID		1.1093				3.0		35.0			
F-53B Major	1.7713 1.8430	1.8507 1.6493	1.7942	1.9392	2.0023	AveID		1.8357				6.3		50.0			
Perfluorooctane Sulfonamide (FOSA)	0.9447 1.0010	1.0015 0.9523	0.9424	1.0155	1.0419	AveID		0.9856				4.0		35.0			
Perfluorononanesulfonic acid (PFNS)	0.8131 0.8121	0.7419 0.7503	0.7613	0.7781	0.7695	AveID		0.7752				3.6		50.0			
8:2 FTS	1.4047 1.2898	1.2049 1.3194	1.2351	1.2424	1.3334	AveID		1.2900				5.3		35.0			
Perfluorodecanoic acid (PFDA)	0.9467 1.0931	1.1302 1.0145	1.0491	1.0636	1.0484	AveID		1.0494				5.6		35.0			
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	1.0236 0.9755	0.9472 1.0328	0.9128	0.9868	1.0221	AveID		0.9858				4.5		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.6225 0.6912	0.6387 0.6423	0.6832	0.7141	0.7080	AveID		0.6714				5.4		50.0			
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	0.6464 0.9255	0.9301 0.9261	1.0028	0.8322	0.9253	AveID		0.8840				13.1		35.0			
Perfluoroundecanoic acid (PFUnA)	0.9434 0.7821	0.8699 0.8018	0.7503	0.7522	0.8365	AveID		0.8195				8.5		35.0			
F-53B Minor	2.7019 2.5867	2.6130 2.1488	2.8873	2.8652	2.7717	AveID		2.6535				9.4		50.0			
Perfluorododecanoic acid (PFDoA)	1.1376 1.0839	0.9975 1.0907	1.0746	1.1154	1.1433	AveID		1.0919				4.5		35.0			
Perfluorotridecanoic Acid (PFTriA)	0.9687 1.0789	1.0292 1.0500	1.0796	1.0816	1.1857	AveID		1.0677				6.2		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2555 0.2589	0.2919 0.2636	0.2453	0.2569	0.2491	AveID		0.2602				5.9		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.7653 0.9715	1.3648 0.9014	1.0483	0.9956	0.9507	L2ID	0.0205	0.9502							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	1.1475 1.1370	1.1984 1.0684	1.1770	1.1295	1.1425	AveID		1.1429				3.6		50.0			
13C4 PFBA	+++++ 1.4117	1.2696 1.5420	1.3076	1.2987	1.3059	Ave		1.3559				7.6		50.0			
13C5 PFPeA	0.9124 1.0054	0.8821 1.0349	0.9316	0.8944	0.9368	Ave		0.9425				6.0		50.0			
13C3-PFBS	0.0220 0.0248	0.0229 0.0269	0.0230	0.0231	0.0231	Ave		0.0237				6.9		50.0			
M2-4:2FTS	0.1330 0.1293	0.1232 0.1362	0.1169	0.1268	0.1254	Ave		0.1273				5.0		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
13C2 PFHxA	0.9821 1.0465	0.9787 1.1049	0.9969	1.0174	0.9938	Ave		1.0172				4.4		50.0			
13C3 HFPO-DA	0.0673 0.0738	0.0643 0.0829	0.0677	0.0735	0.0771	Ave		0.0724				8.9		50.0			
13C4-PFHpA	0.9006 0.9748	0.8952 0.9872	0.9277	0.9373	0.9365	Ave		0.9371				3.7		50.0			
18O2 PFHxS	1.3480 1.3594	1.2940 1.3736	1.3258	1.2974	1.2946	Ave		1.3275				2.5		50.0			
M2-6:2FTS	0.2035 0.2073	0.1985 0.1979	0.2090	0.1987	0.1914	Ave		0.2009				3.0		50.0			
13C4 PFOA	0.9476 0.9571	0.9504 0.9746	0.9553	0.9586	0.9488	Ave		0.9560				1.0		50.0			
13C4 PFOS	0.9448 1.0026	0.9615 1.0887	0.9374	0.9230	0.9612	Ave		0.9742				5.8		50.0			
13C5 PFNA	0.8507 0.8495	0.8673 0.8781	0.8351	0.8465	0.8552	Ave		0.8546				1.7		50.0			
13C8 FOSA	1.4178 1.4370	1.3891 1.3807	1.4145	1.3980	1.3958	Ave		1.4047				1.4		50.0			
M2-8:2FTS	0.3145 0.2790	0.3204 0.2470	0.3241	0.2983	0.2738	Ave		0.2939				9.7		50.0			
13C2 PFDA	0.7752 0.7109	0.7395 0.7327	0.7855	0.7427	0.7657	Ave		0.7503				3.5		50.0			
d3-NMeFOSAA	0.2939 0.3280	0.2883 0.3404	0.2973	0.3039	0.3008	Ave		0.3075				6.3		50.0			
d5-NEtFOSAA	0.3122 0.3175	0.3225 0.3114	0.3121	0.3252	0.3044	Ave		0.3150				2.3		50.0			
13C2 PFUnA	0.6068 0.6358	0.6382 0.6158	0.6383	0.6306	0.6206	Ave		0.6266				2.0		50.0			
13C2 PFDoA	0.6316 0.6752	0.6317 0.6905	0.6629	0.6311	0.6243	Ave		0.6496				4.0		50.0			
13C2-PFTeDA	0.6485 0.6992	0.6025 0.7344	0.7008	0.6559	0.6769	Ave		0.6740				6.4		50.0			
13C2-PFHxDA	1.0898 1.0988	0.9225 1.1203	1.0956	1.0747	1.1137	Ave		1.0736				6.4		50.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 320-233476/2	2018.07.11LLICALA_002.d
Level 2	IC 320-233476/3	2018.07.11LLICALA_003.d
Level 3	IC 320-233476/4	2018.07.11LLICALA_004.d
Level 4	IC 320-233476/5	2018.07.11LLICALA_005.d
Level 5	IC 320-233476/6	2018.07.11LLICALA_006.d
Level 6	IC 320-233476/7	2018.07.11LLICALA_007.d
Level 7	IC 320-233476/8	2018.07.11LLICALA_008.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	+++++ 10623913	109256 22835400	529569	2185459	5273443	+++++ 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	51727 8699476	103977 17766142	457354	1776986	4381627	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	63723 12546505	137206 25119744	638814	2692471	6674181	0.0221 4.42	0.0442 8.84	0.221	0.884	2.21
4:2 FTS		AveID	11521 2260293	23943 4685101	121859	483517	1107254	0.0234 4.67	0.0467 9.34	0.234	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	41864 7978958	97977 16543784	407905	1767805	4160132	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoropentanesulfonic acid (PFPeS)		AveID	62396 12185262	133528 23955798	586514	2723317	6455101	0.0235 4.69	0.0469 9.38	0.235	0.938	2.35
HFPO-DA (GenX)		AveID	7091 1554085	15816 3276527	79161	316075	778109	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroheptanoic acid (PFHpA)		AveID	48115 8030466	99091 16011091	425549	1789760	4400212	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	68440 10305090	120291 20622639	552716	2243830	5315063	0.0228 4.55	0.0455 9.10	0.228	0.910	2.28
ADONA		AveID	122149 21793498	258910 37073934	1281398	5276511	12756974	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
6:2 FTS		AveID	11415 2292840	25517 4726825	126798	508387	1207511	0.0237 4.74	0.0474 9.48	0.237	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	58566 8461263	112267 16291262	477183	1889955	4451468	0.0250 5.01	0.0501 10.0	0.250	1.00	2.50
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	50252 9707552	100280 18718055	473940	2108438	5191820	0.0238 4.76	0.0476 9.52	0.238	0.952	2.38
Perfluorooctanesulfonic acid (PFOS)		AveID	42647 7822689	89440 16622900	401226	1695511	4135858	0.0232 4.64	0.0464 9.28	0.232	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	40436 6996919	84772 13910795	400644	1601728	3819652	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
F-53B Major		AveID	64507 12796083	146856 25098628	651675	2898434	7252582	0.0233 4.66	0.0466 9.32	0.233	0.932	2.33
Perfluorooctane Sulfonamide (FOSA)		AveID	55398 10688141	123192 19718955	554186	2466657	5880155	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorononanesulfonic acid (PFNS)		AveID	30501 5807858	60641 11760635	284813	1198001	2871112	0.0240 4.80	0.0480 9.60	0.240	0.960	2.40
8:2 FTS		AveID	17506 2561237	32747 4682146	159408	616956	1414341	0.0240 4.79	0.0479 9.58	0.240	0.958	2.40
Perfluorodecanoic acid (PFDA)		AveID	30353 5773802	74013 11148372	342607	1372481	3246129	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)		AveID	12441 2377396	24180 5272635	112830	521077	1243187	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	23450 4963395	52427 10109747	256645	1104012	2652406	0.0241 4.82	0.0482 9.64	0.241	0.964	2.41
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)		AveID	8347 2183486	26557 4325460	130099	470221	1138694	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoroundecanoic acid (PFUnA)		AveID	23675 3694320	49158 7405393	199100	824114	2099121	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
F-53B Minor		AveID	99455 18152128	209574 33050828	1059951	4328485	10147290	0.0236 4.71	0.0471 9.42	0.236	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	29719 5437907	55796 11295646	296160	1222974	2886271	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotridecanoic Acid (PFTriA)		AveID	25307 5412702	57570 10874073	297546	1185888	2993320	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	6854 1344804	15573 2903345	71477	292793	681755	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	79574 7932024	111481 15144158	477512	1859123	4281172	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	51724 9282794	97895 17950029	536098	2109156	5144900	0.0250 5.00	0.0500 10.0	0.250	1.00	2.50
13C4 PFBA	13PFOA	Ave	+++++ 5244451	5621166 5781235	5436336	5641372	5280540	+++++ 2.50	2.50 2.50	2.50	2.50	2.50
13C5 PFPeA	13PFOA	Ave	3773636 3734969	3905774 3880280	3873105	3885306	3788119	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3-PFBS	13PFOA	Ave	84738 85755	94108 93739	88873	93442	86878	2.33 2.33	2.33 2.33	2.33	2.33	2.33
M2-4:2FTS	13PFOA	Ave	513760 448621	509407 476788	453992	514423	473738	2.34 2.34	2.34 2.34	2.34	2.34	2.34
13C2 PFHxA	13PFOA	Ave	4061845 3887868	4333312 4142603	4144632	4419532	4018475	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C3 HFPO-DA	13PFOA	Ave	278389 274060	284852 310846	281279	319484	311580	2.50 2.50	2.50 2.50	2.50	2.50	2.50

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1 Analy Batch No.: 233476

SDG No.:

Instrument ID: A8_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/11/2018 14:48 Calibration End Date: 07/11/2018 15:38 Calibration ID: 39998

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
13C4-PFHpA	13PF OA	Ave	3724726 3621431	3963601 3701454	3856910	4071620	3786835	2.50 2.50	2.50 2.50	2.50	2.50	2.50
18O2 PFHxS	13PF OA	Ave	5274150 4777689	5419785 4872001	5214223	5331177	4952007	2.37 2.37	2.37 2.37	2.37	2.37	2.37
M2-6:2FTS	13PF OA	Ave	799554 731524	834970 704932	825525	819911	735229	2.38 2.38	2.38 2.38	2.38	2.38	2.38
13C4 PFOA	13PF OA	Ave	3919080 3555536	4207903 3653899	3971401	4164105	3836329	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C4 PFOS	13PF OA	Ave	3735610 3560852	4069838 3902400	3725581	3832872	3715442	2.39 2.39	2.39 2.39	2.39	2.39	2.39
13C5 PFNA	13PF OA	Ave	3518663 3155893	3839924 3292167	3471672	3677166	3458178	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C8 FOSA	13PF OA	Ave	5863894 5338756	6150410 5176580	5880733	6072674	5643811	2.50 2.50	2.50 2.50	2.50	2.50	2.50
M2-8:2FTS	13PF OA	Ave	1246262 992916	1358867 887172	1290698	1241456	1060685	2.40 2.40	2.40 2.40	2.40	2.40	2.40
13C2 PFDA	13PF OA	Ave	3206069 2641138	3274309 2747254	3265845	3225992	3096188	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d3-NMeFOSAA	13PF OA	Ave	1215393 1218514	1276369 1276287	1236119	1320092	1216339	2.50 2.50	2.50 2.50	2.50	2.50	2.50
d5-NEtFOSAA	13PF OA	Ave	1291362 1179674	1427681 1167600	1297377	1412562	1230676	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFUnA	13PF OA	Ave	2509506 2361908	2825527 2308936	2653699	2739039	2509304	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2 PFDoA	13PF OA	Ave	2612394 2508500	2796780 2588991	2756034	2741167	2524421	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFTeDA	13PF OA	Ave	2682209 2597628	2667637 2753301	2913500	2848985	2737226	2.50 2.50	2.50 2.50	2.50	2.50	2.50
13C2-PFHxDA	13PF OA	Ave	4507577 4082261	4084288 4200183	4554944	4668246	4503233	2.50 2.50	2.50 2.50	2.50	2.50	2.50

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Lims ID: IC L1 Full
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 11-Jul-2018 14:48:59 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L1-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:18 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:13:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.625	1.702	-0.077	1.000	51727	0.0282		113	15.3	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.625	1.702	-0.077	0.607	3773636	2.42		96.8	38740	
D 47 13C3-PFBS										
301.90 > 83.00	1.712	1.748	-0.036	0.640	84738	2.16		93.0	494	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.721	1.751	-0.030	1.005	63723	0.0229		103	788	
298.90 > 99.00	1.721	1.751	-0.030	1.005	27608		2.31(1.25-3.74)	103	308	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.949	1.962	-0.013	1.139	11521	0.0243		104	1016	
D 60 M2-4:2FTS										
329.00 > 81.00	1.949	1.962	-0.013	0.728	513760	2.44		105	5378	
D 7 13C2 PFHxA										
315.00 > 270.00	1.982	1.996	-0.014	0.741	4061845	2.41		96.5	70891	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.982	1.998	-0.016	1.000	41864	0.0250		100	67.8	
313.00 > 119.00	1.971	1.998	-0.027	0.995	4020		10.41(5.03-15.10)	100	87.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.022	-0.006	1.178	62396	0.0245		105	1542	
349.00 > 99.00	2.016	2.022	-0.006	1.178	24140		2.58(1.36-4.07)	105	480	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.083	2.093	-0.010	0.779	278389	2.33		93.0	7110	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.083	2.095	-0.012	1.000	7091	0.0240		96.0	35.0	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.867	3724726	2.40		96.1	36311	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	48115	0.0279		112	80.2	
363.00 > 169.00	2.321	2.319	0.002	1.000	20821		2.31(1.13-3.40)	112	195	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	68440	0.0267		118	687	
399.00 > 99.00	2.334	2.332	0.002	1.000	26424		2.59(1.50-4.49)	118	180	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.872	5274150	2.40		102	31468	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.775	122149	0.0243		103	1762	
377.00 > 85.00	2.360	2.360	0.0	0.775	66967		1.82(0.84-2.53)	103	350	
D 12 M2-6:2FTS										
429.00 > 81.00	2.654	2.645	0.009	0.992	799554	2.41		101	15699	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.654	2.648	0.006	1.000	11415	0.0217		91.5	214	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.676	2.672	0.004	1.000	58566	0.0303		121	42.3	
413.00 > 169.00	2.676	2.672	0.004	1.000	29579		1.98(0.84-2.52)	121	150	
* 62 13C2-PFOA										
415.00 > 370.00	2.676	2.672	0.004		4135961	2.50			25214	
D 14 13C4 PFOA										
417.00 > 372.00	2.676	2.672	0.004	1.000	3919080	2.48		99.1	39083	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.684	2.678	0.006	0.882	50252	0.0244		103	1356	
449.00 > 99.00	2.684	2.678	0.006	0.882	13998		3.59(1.94-5.82)	103	336	
D 18 13C4 PFOS										
503.00 > 80.00	3.044	3.034	0.010	1.137	3735610	2.32		97.0	38404	
D 19 13C5 PFNA										
468.00 > 423.00	3.044	3.035	0.009	1.137	3518663	2.49		99.5	37505	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.044	3.035	0.009	1.000	42647	0.0241		104	1040	
499.00 > 99.00	3.044	3.035	0.009	1.000	6341		6.73(2.31-6.93)	104	76.8	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.044	3.036	0.008	1.000	40436	0.0259		104	86.6	
463.00 > 169.00	3.044	3.036	0.008	1.000	8246		4.90(1.90-5.69)	104	386	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.252	3.245	0.007	1.068	64507	0.0225		96.5	738	
D 21 13C8 FOSA										
506.00 > 78.00	3.368	3.367	0.001	1.259	5863894	2.52		101	37744	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.378	3.371	0.007	1.003	55398	0.0240		95.9	895	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.387	3.377	0.010	1.113	30501	0.0252		105	977	
549.00 > 99.00	3.387	3.377	0.010	1.113	11187		2.73(1.33-3.97)	105	183	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.387	3.380	0.007	1.000	17506	0.0261		109	392	
D 26 M2-8:2FTS										
529.00 > 81.00	3.387	3.380	0.007	1.266	1246262	2.56		107	13304	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	3.396	3.391	0.005	1.269	3206069	2.58		103	42082	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.396	3.392	0.004	1.000	30353	0.0226		90.2	167	
513.00 > 169.00	3.406	3.392	0.014	1.003	5842		5.20(2.36-7.09)	90.2	176	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.555	3.544	0.011	1.328	1215393	2.39		95.6	18900	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.555	3.548	0.007	1.000	12441	0.0260		104	107	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.707	3.701	0.006	1.218	23450	0.0223		92.7	612	
599.00 > 99.00	3.707	3.701	0.006	1.218	7239		3.24(1.39-4.16)	92.7	219	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.717	3.710	0.007	1.389	1291362	2.48		99.1	3190	
D 30 13C2 PFUnA										
565.00 > 520.00	3.728	3.716	0.012	1.393	2509506	2.42		96.8	51439	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.728	3.718	0.010	1.003	8347	0.0183		73.1	145	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.728	3.718	0.010	1.000	23675	0.0288		115	106	
563.00 > 169.00	3.717	3.718	-0.001	0.997	8021		2.95(2.12-6.36)	115	436	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.885	3.874	0.011	1.276	99455	0.0240		102	2626	
D 36 13C2 PFDoA										
615.00 > 570.00	4.018	4.009	0.009	1.501	2612394	2.43		97.2	20487	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.018	4.011	0.007	1.000	29719	0.0260		104	16.6	
613.00 > 169.00	4.018	4.011	0.007	1.000	7194		4.13(2.13-6.40)	104	142	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.280	4.273	0.007	1.065	25307	0.0227		90.7	12.3	
663.00 > 169.00	4.280	4.273	0.007	1.065	8824		2.87(1.25-3.76)	90.7	172	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.520	4.508	0.012	1.689	2682209	2.41		96.2	12372	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.520	4.508	0.012	1.000	6854	0.0246		98.2	111	
713.00 > 219.00	4.520	4.508	0.012	1.000	5713		1.20(0.71-2.13)	98.2	153	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.930	4.918	0.012	1.842	4507577	2.54		102	13270	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.930	4.918	0.012	1.000	79574	0.0249		99.5	20.2	
813.00 > 169.00	4.930	4.918	0.012	1.000	12790		6.22(2.86-8.58)	99.5	144	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.283	5.271	0.012	1.072	51724	0.0251		100	11.3	
913.00 > 169.00	5.283	5.271	0.012	1.072	7005		7.38(3.83-11.48)	100	122	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL1_00006 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d

Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N

Lims ID: IC L1 Full

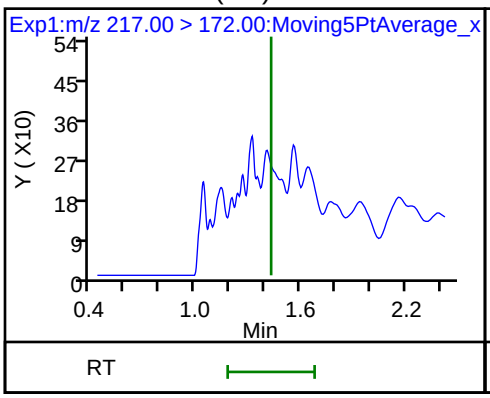
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2

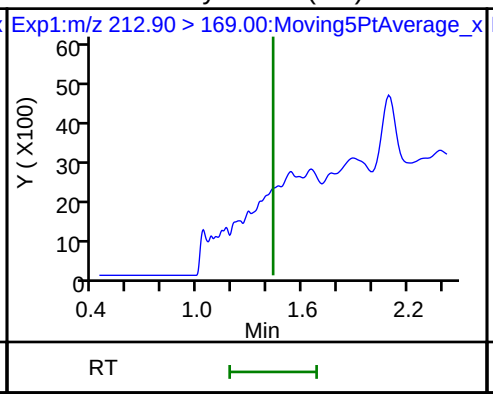
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

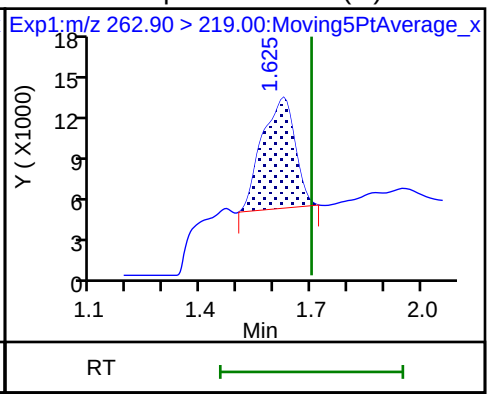
D 1 13C4 PFBA (ND)



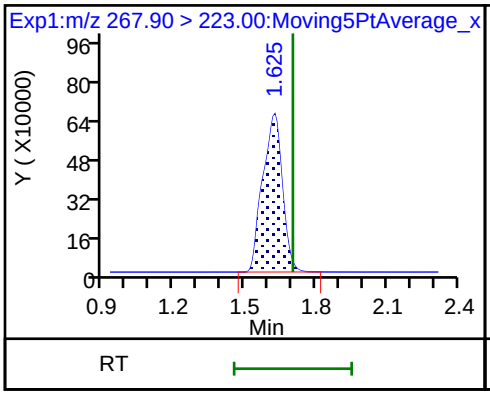
2 Perfluorobutyric acid (ND)



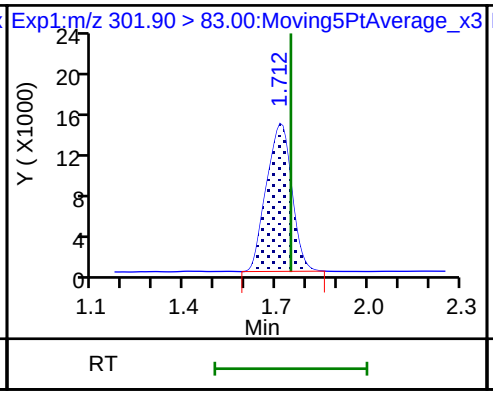
4 Perfluoropentanoic acid (M)



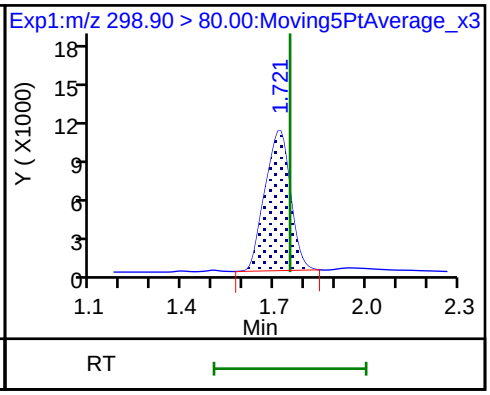
D 3 13C5-PFPeA



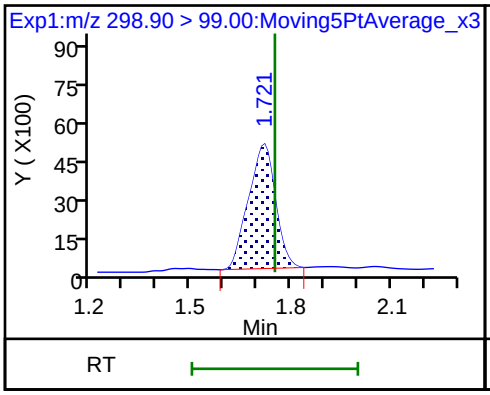
D 47 13C3-PFBS



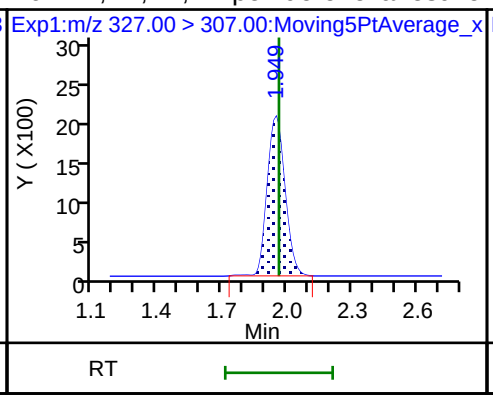
5 Perfluorobutanesulfonic acid



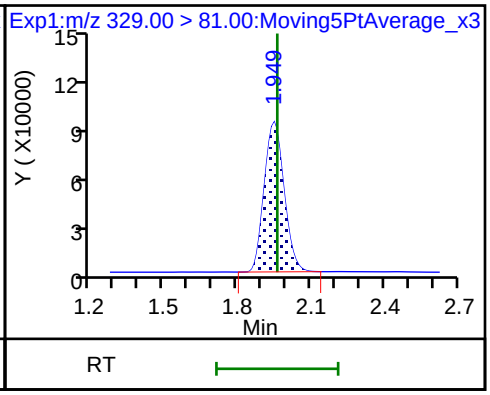
5 Perfluorobutanesulfonic acid



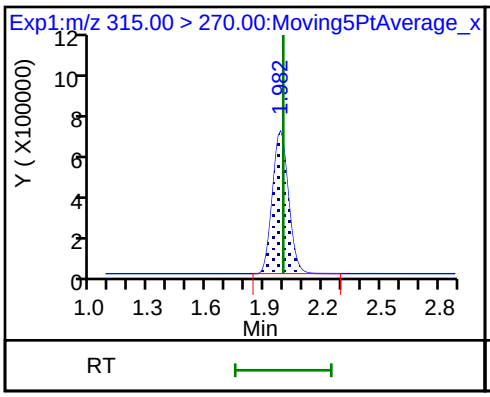
61 1H,1H,2H,2H-perfluorohexanesulfon



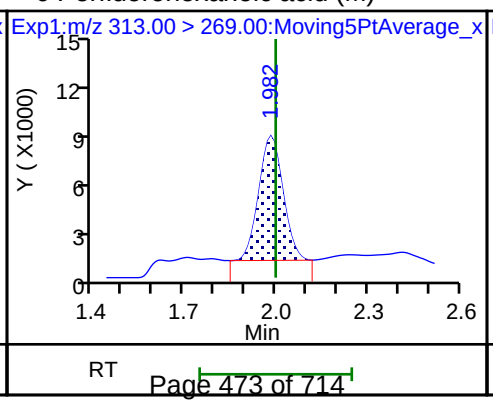
D 60 M2-4:2FTS



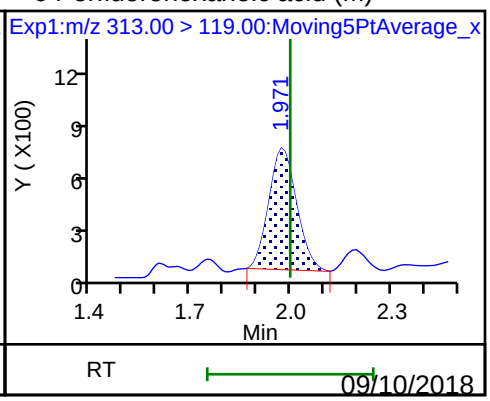
D 7 13C2 PFHxA



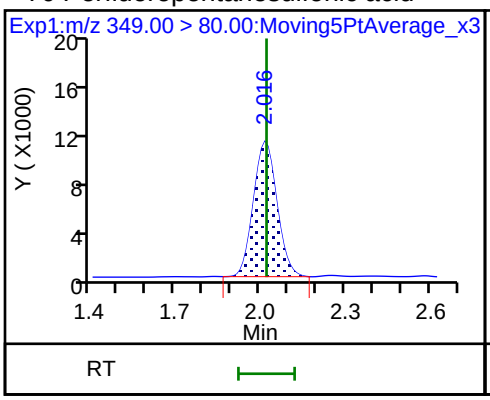
6 Perfluorohexanoic acid (M)



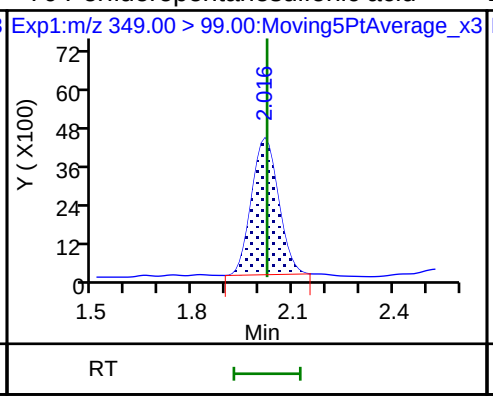
6 Perfluorohexanoic acid (M)



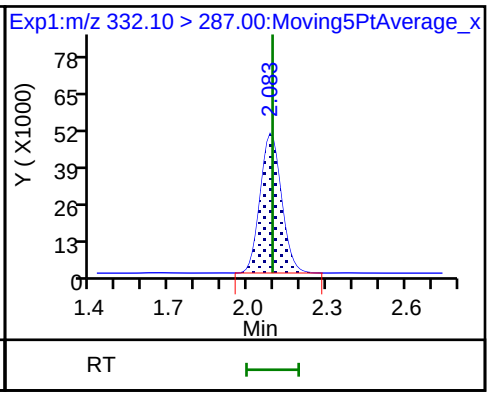
70 Perfluoropentanesulfonic acid



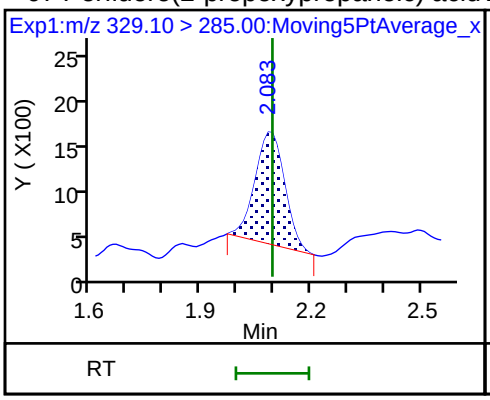
70 Perfluoropentanesulfonic acid



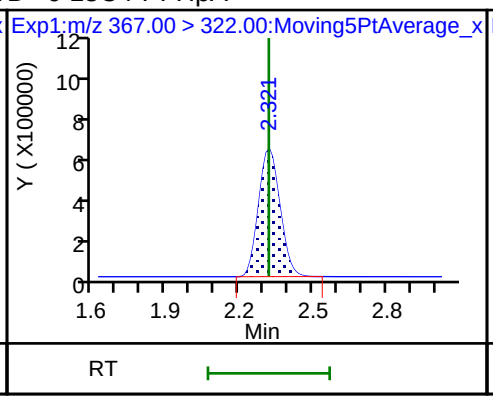
D 64 13C3 HFPO-DA



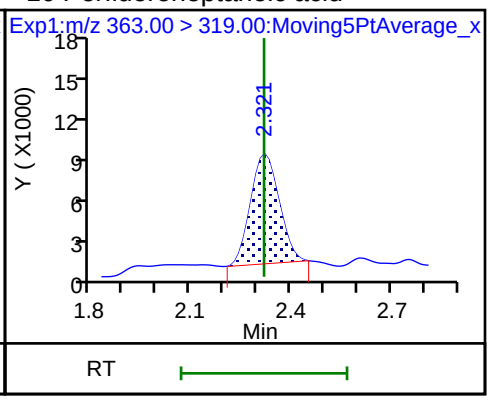
67 Perfluoro(2-propoxypropanoic) acid



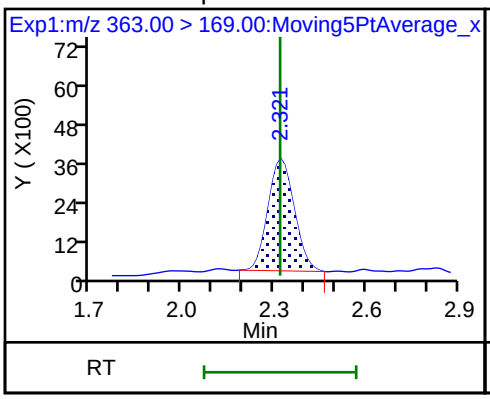
D 9 13C4-PFHpA



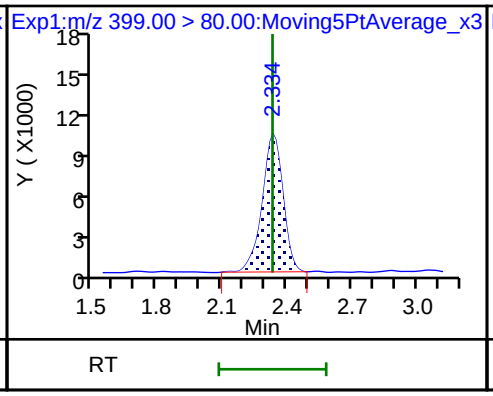
10 Perfluoroheptanoic acid



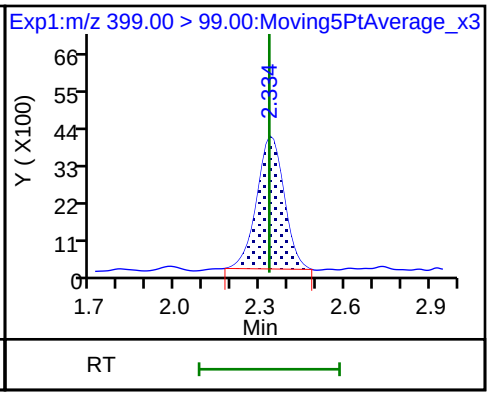
10 Perfluoroheptanoic acid



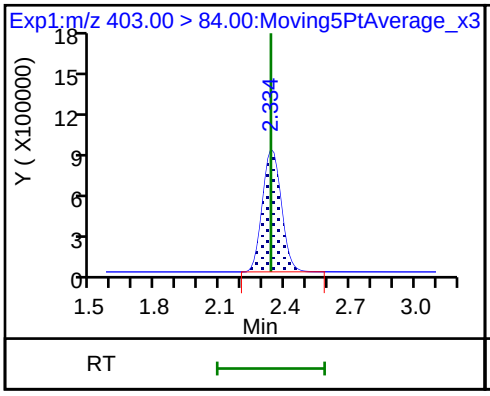
8 Perfluorohexanesulfonic acid



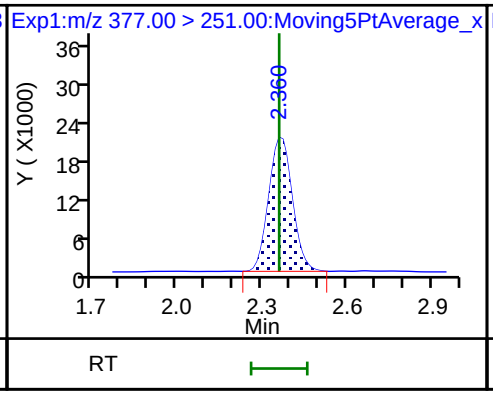
8 Perfluorohexanesulfonic acid



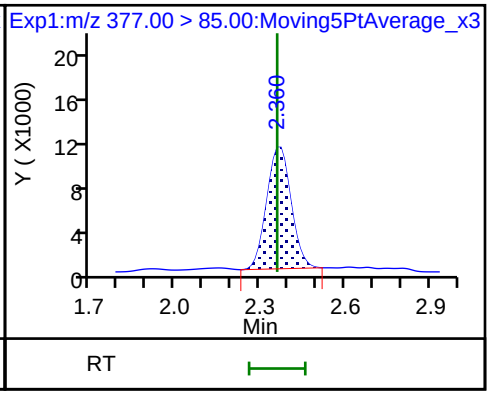
D 11 18O2 PFHxS



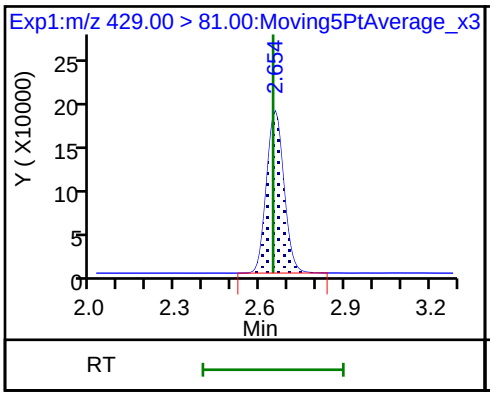
65 Adona



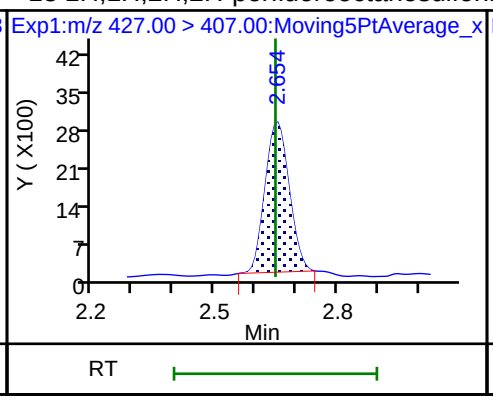
65 Adona



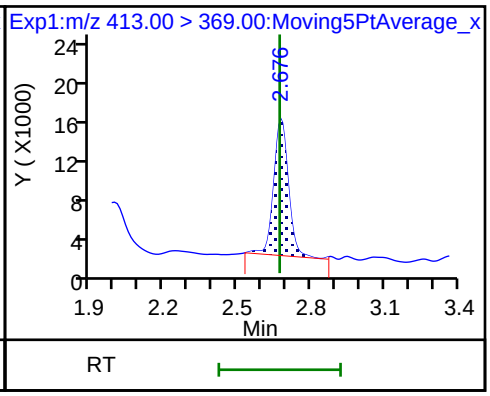
D 12 M2-6:2FTS



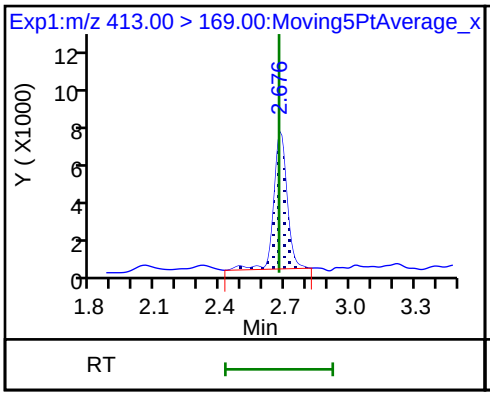
13 1H,1H,2H,2H-perfluorooctanesulfoni



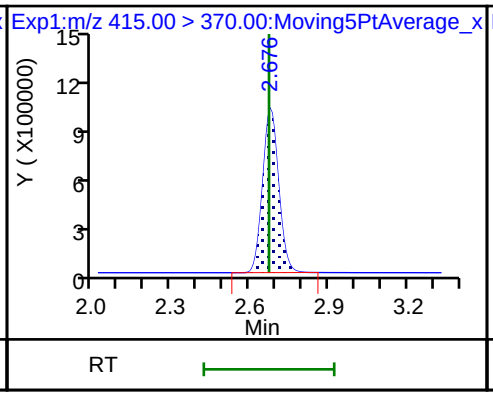
15 Perfluorooctanoic acid



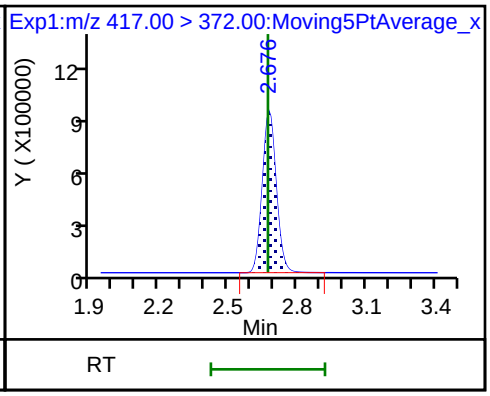
15 Perfluorooctanoic acid



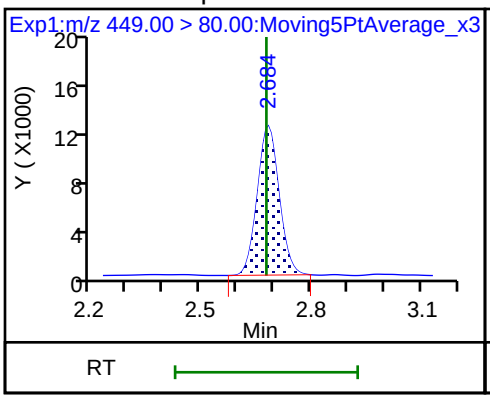
* 62 13C2-PFOA



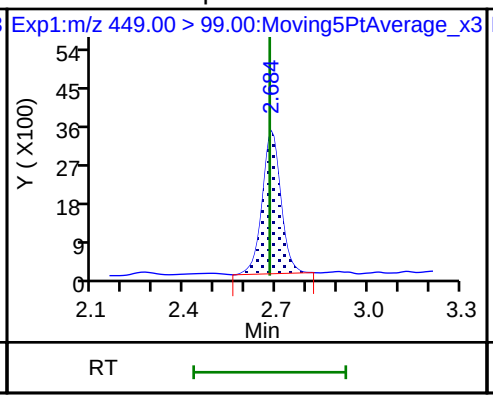
D 14 13C4 PFOA



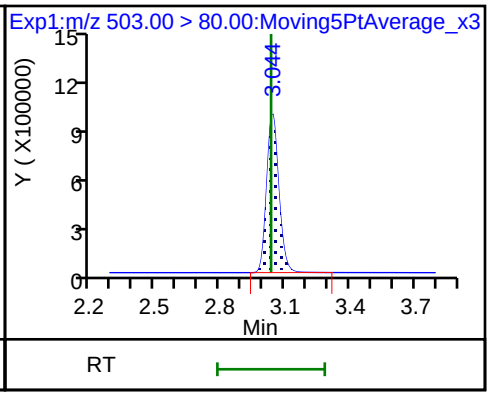
16 Perfluoroheptanesulfonic acid



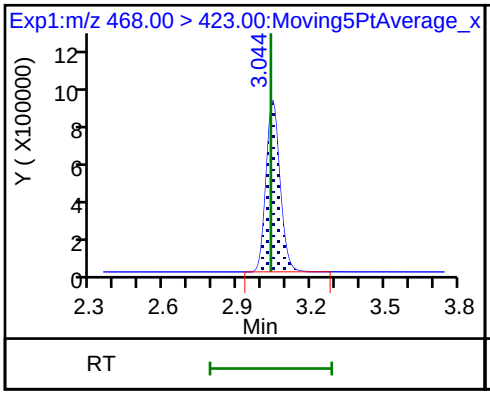
16 Perfluoroheptanesulfonic acid



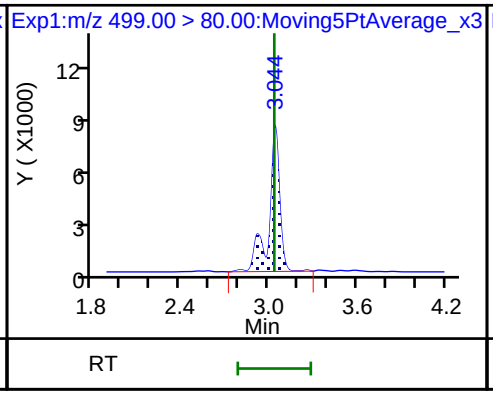
D 18 13C4 PFOS



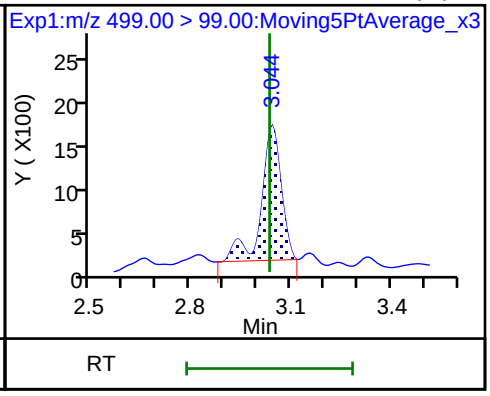
D 19 13C5 PFNA



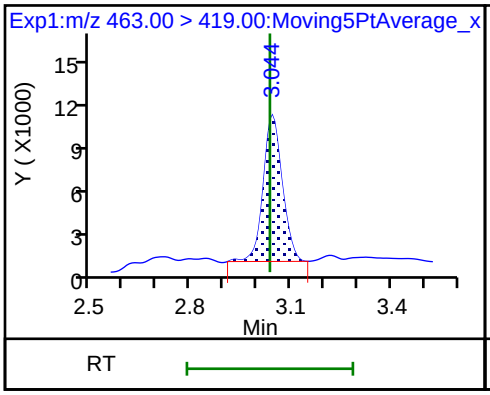
17 Perfluorooctane sulfonic acid



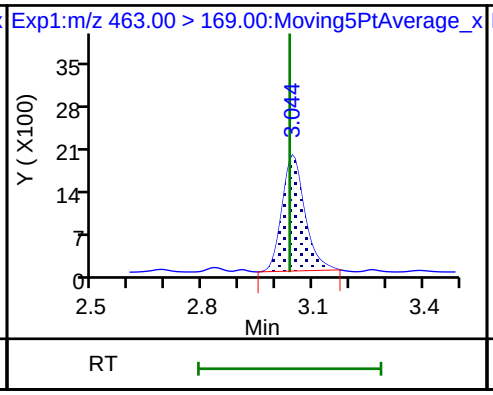
17 Perfluorooctane sulfonic acid (M)



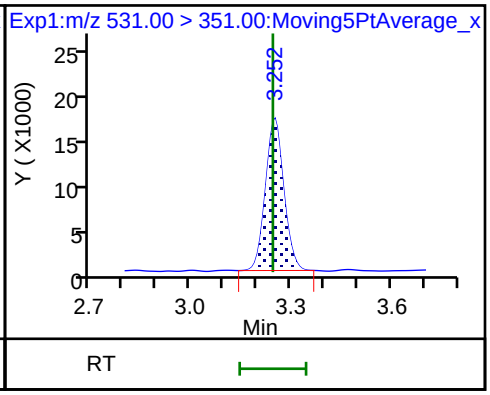
20 Perfluorononanoic acid



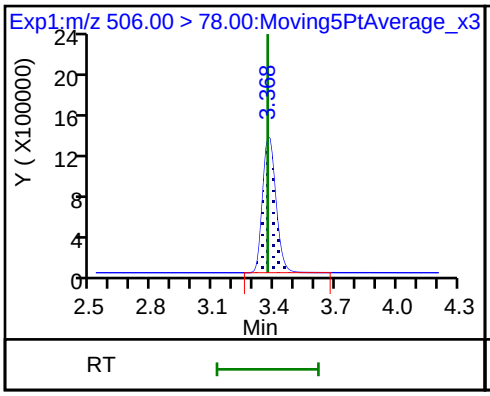
20 Perfluorononanoic acid



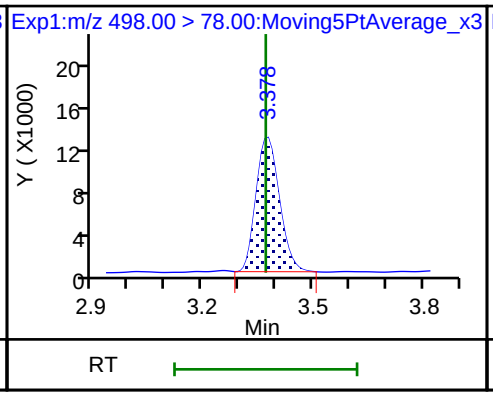
69 9-Chlorohexadecafluoro-3-oxanonane



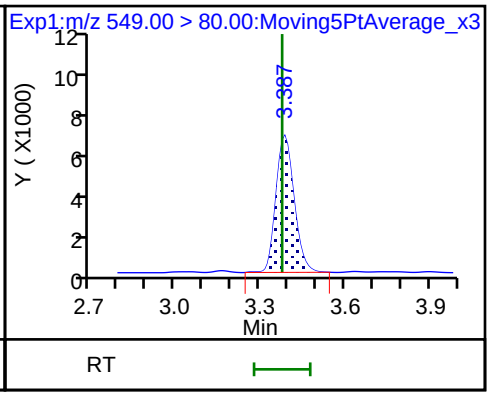
D 21 13C8 FOSA



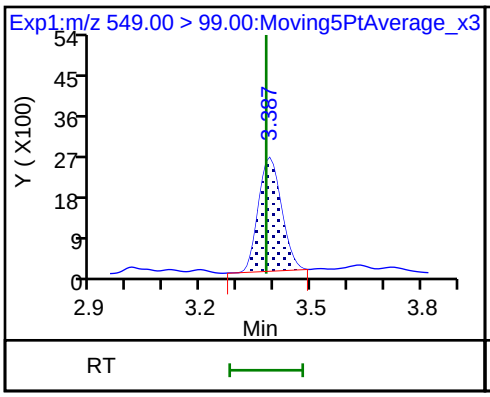
22 Perfluorooctane Sulfonamide



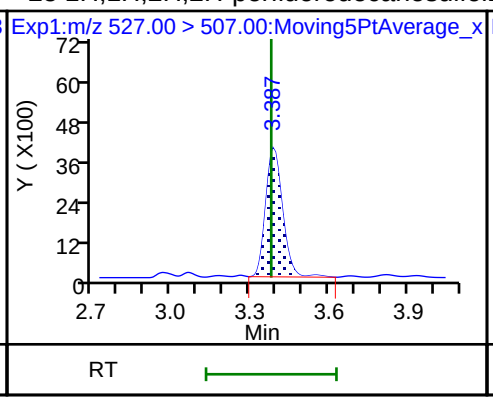
68 Perfluorononanesulfonic acid



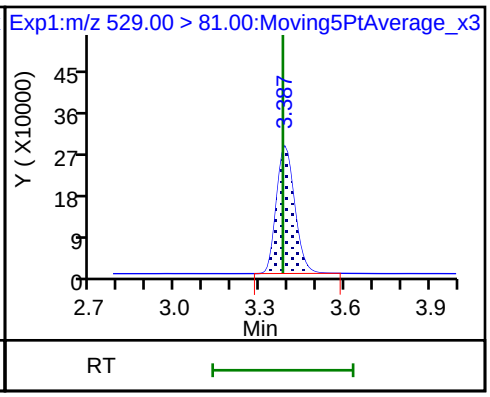
68 Perfluorononanesulfonic acid



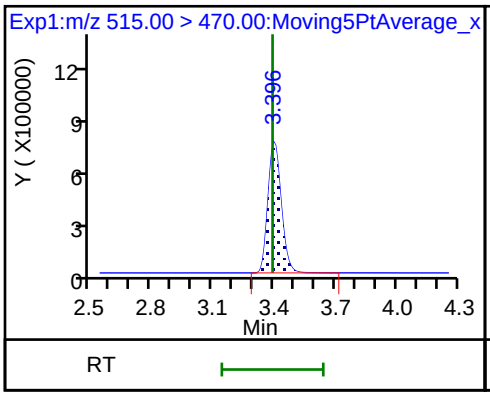
25 1H,1H,2H,2H-perfluorodecanesulfon



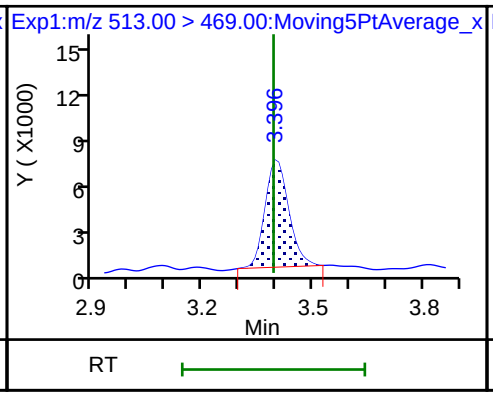
D 26 M2-8:2FTS



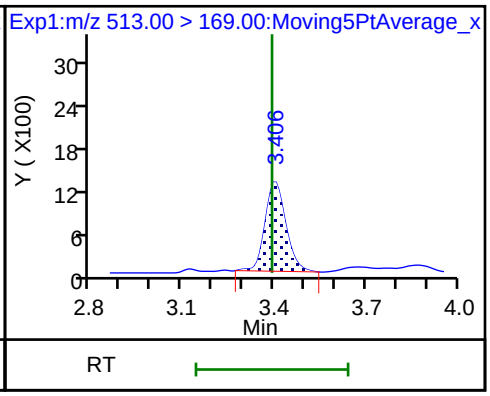
D 23 13C2 PFDA



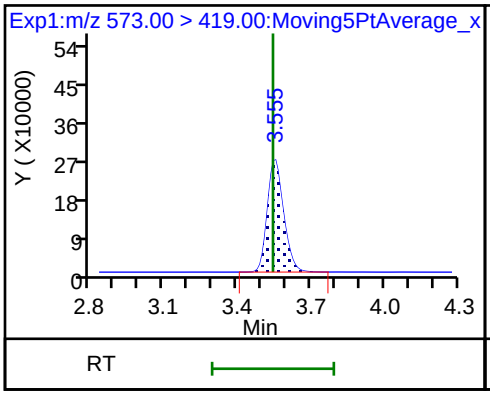
24 Perfluorodecanoic acid



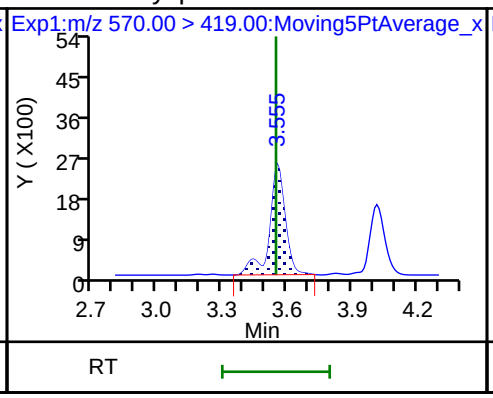
24 Perfluorodecanoic acid



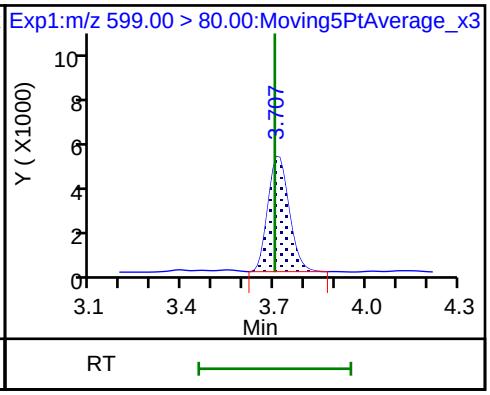
D 27 d3-NMeFOSAA



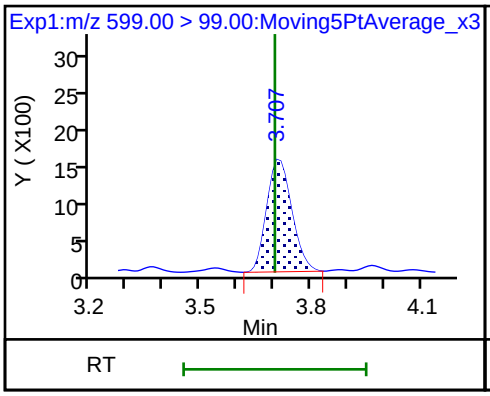
28 N-methyl perfluorooctane sulfonami



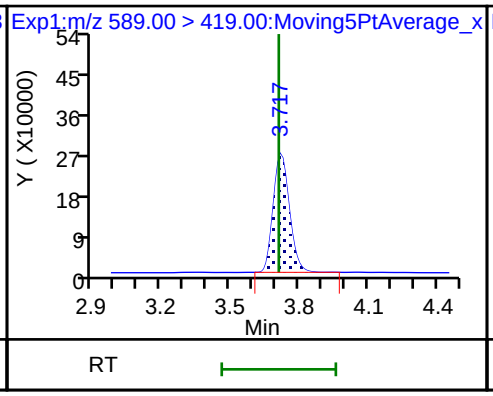
29 Perfluorodecane Sulfonic acid



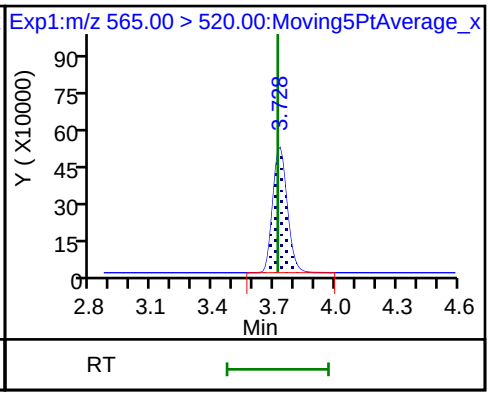
29 Perfluorodecane Sulfonic acid



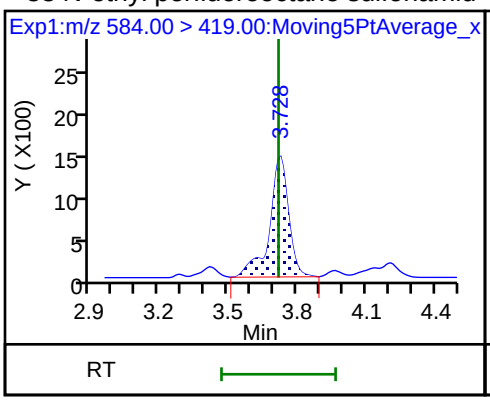
D 32 d5-NEtFOSAA



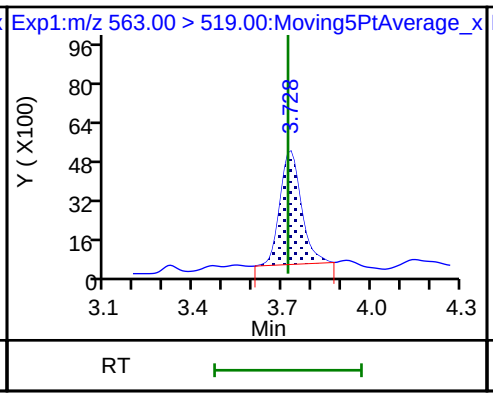
D 30 13C2 PFUnA



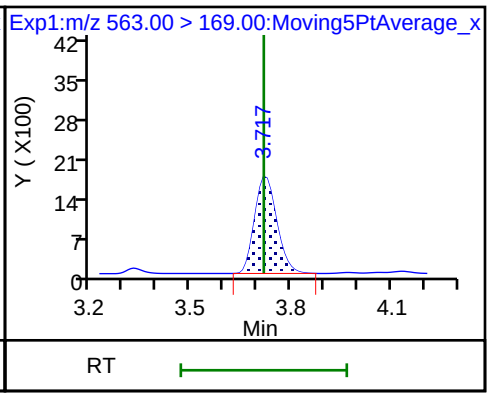
33 N-ethyl perfluorooctane sulfonamid



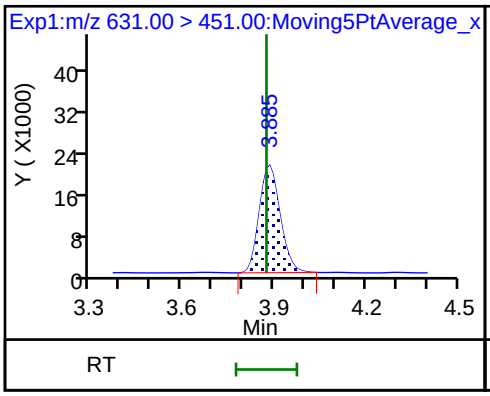
31 Perfluoroundecanoic acid



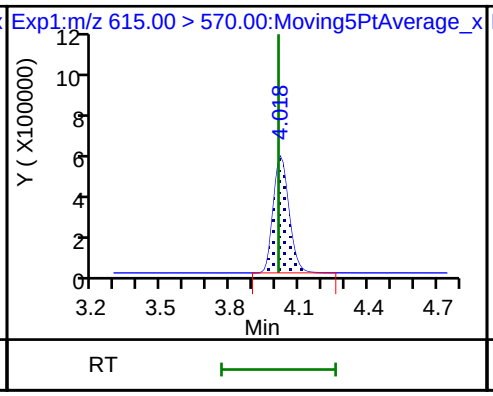
31 Perfluoroundecanoic acid



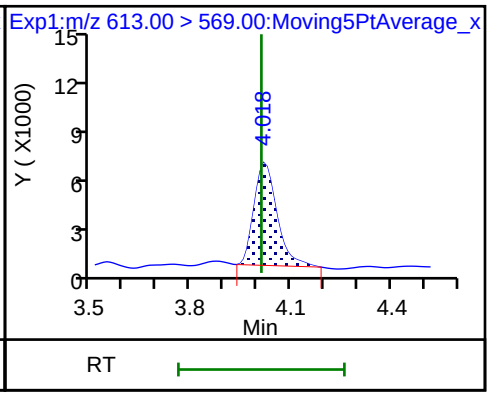
66 11-Chloroeicosafluoro-3-oxaundecan



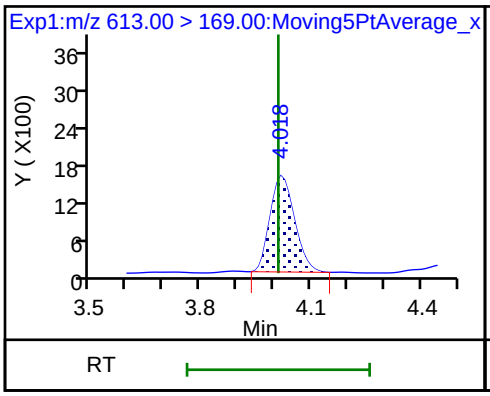
D 36 13C2 PFDoA



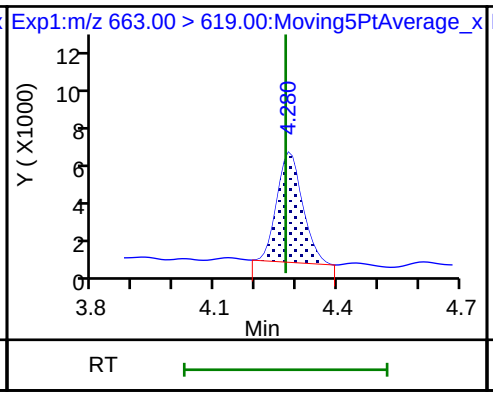
37 Perfluorododecanoic acid



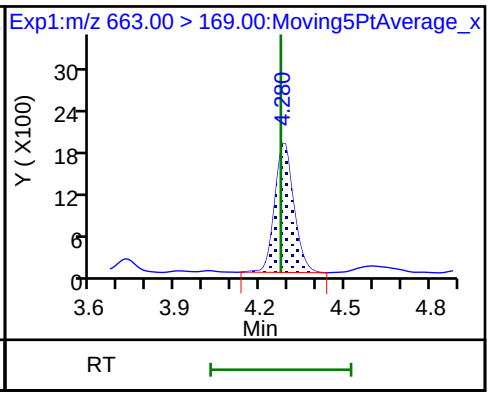
37 Perfluorododecanoic acid



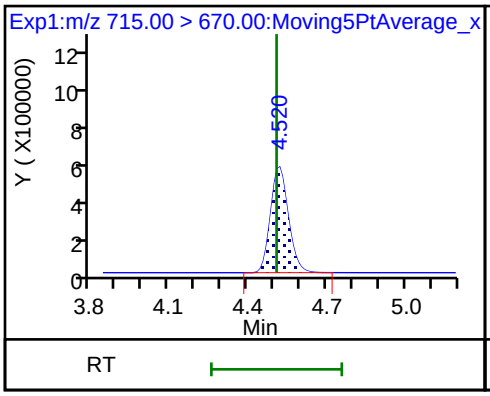
41 Perfluorotridecanoic acid



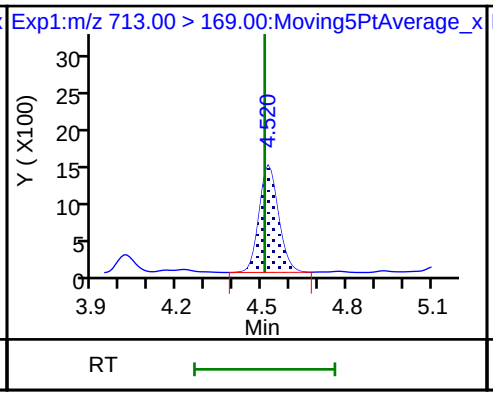
41 Perfluorotridecanoic acid



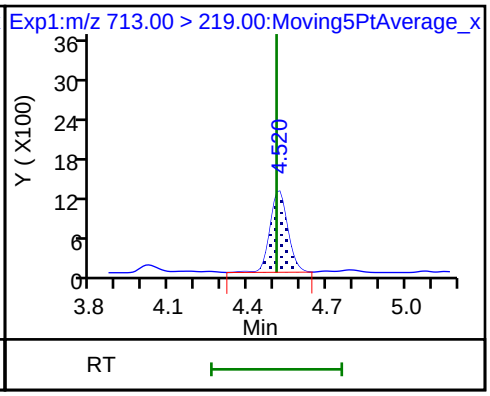
D 43 13C2-PFTeDA



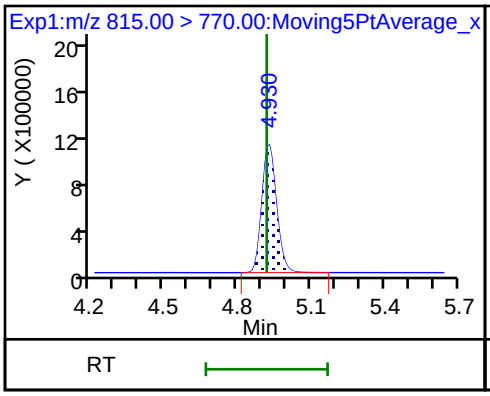
42 Perfluorotetradecanoic acid



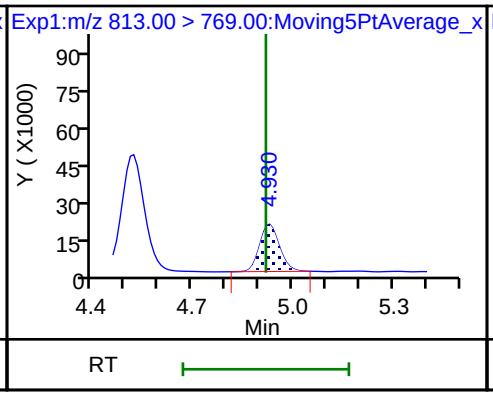
42 Perfluorotetradecanoic acid



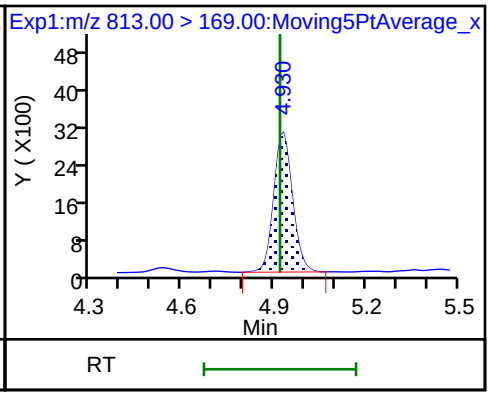
D 44 13C2-PFHxDA



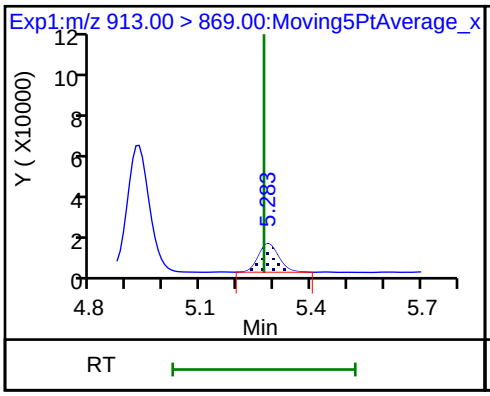
45 Perfluorohexadecanoic acid



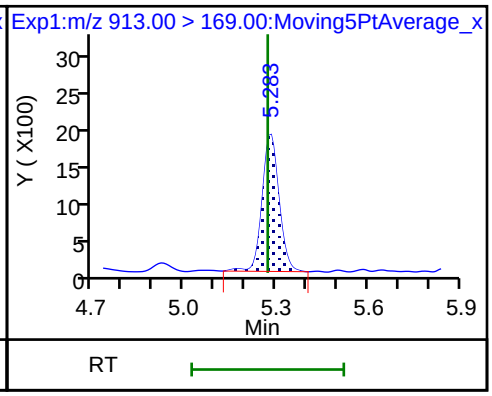
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

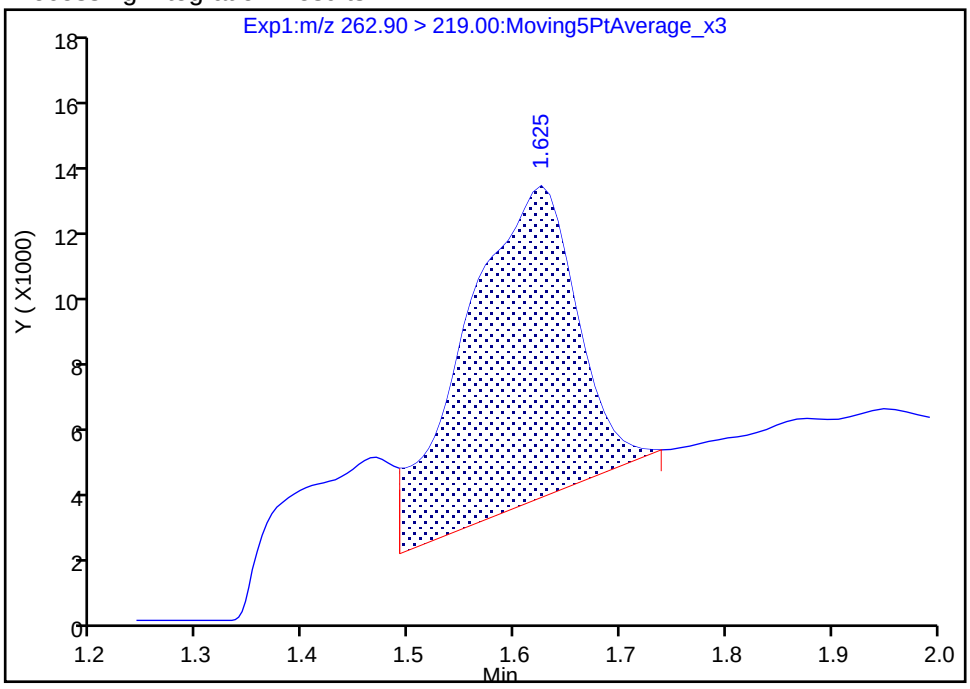
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

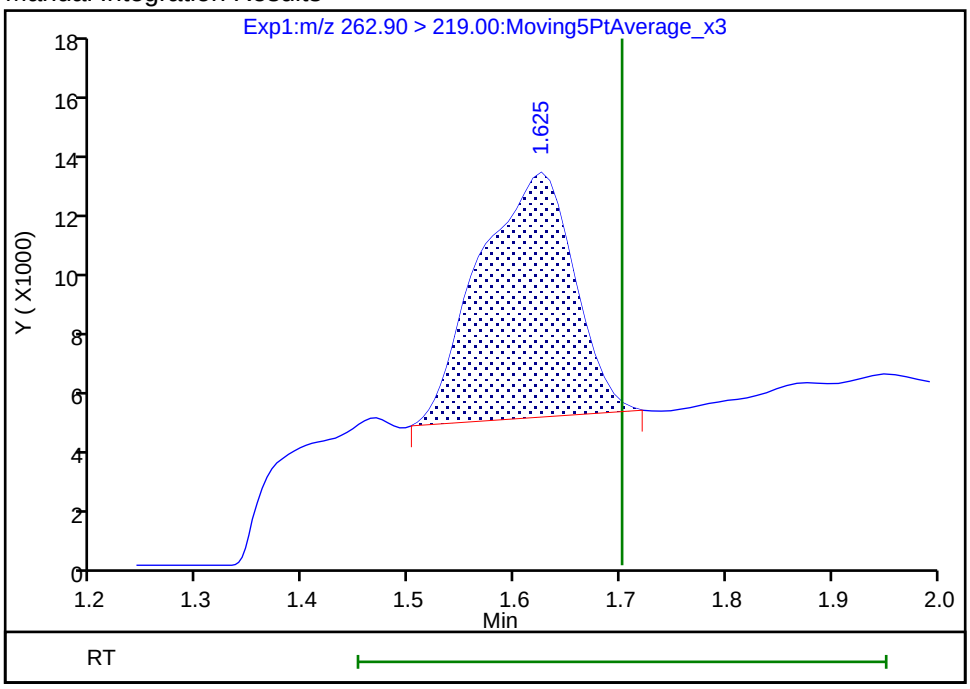
Processing Integration Results

RT: 1.63
Area: 71978
Amount: 0.036924
Amount Units: ng/ml



Manual Integration Results

RT: 1.63
Area: 51727
Amount: 0.028248
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:06
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

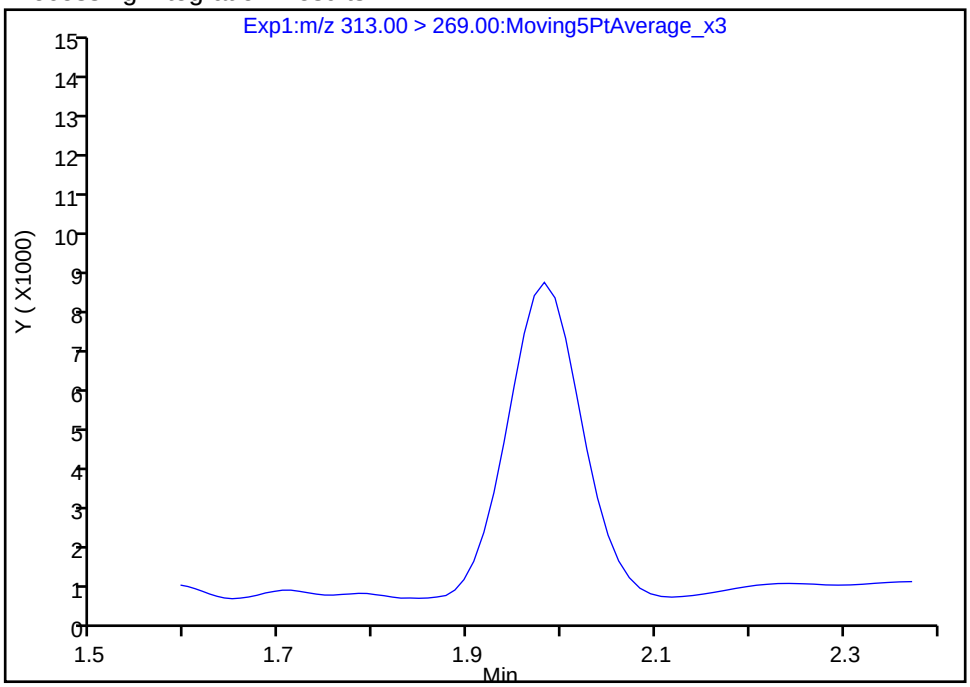
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

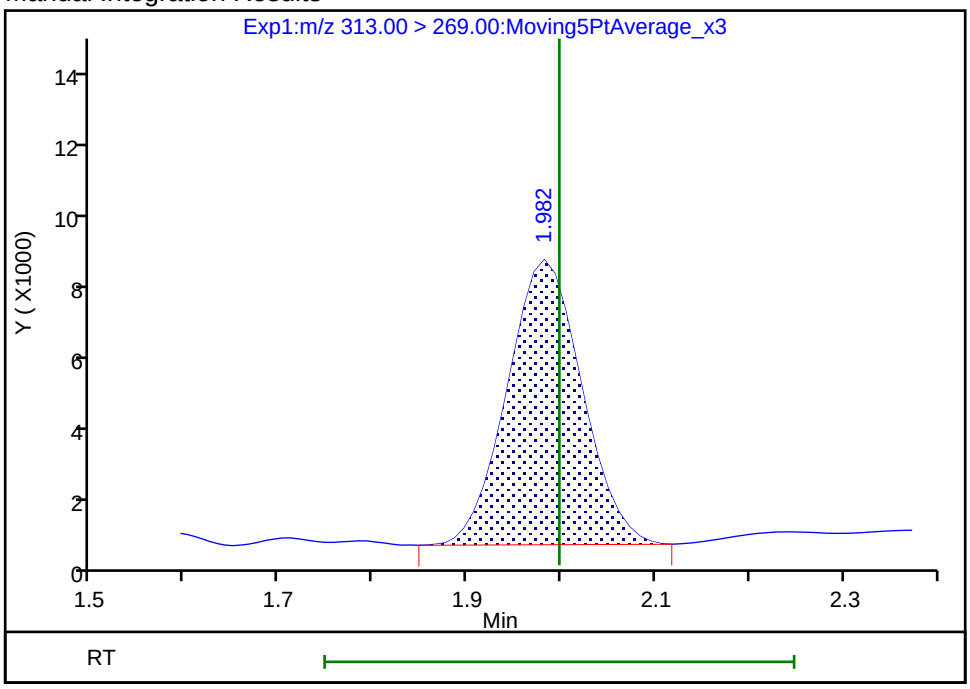
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 1.98
Area: 41864
Amount: 0.025033
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:15
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

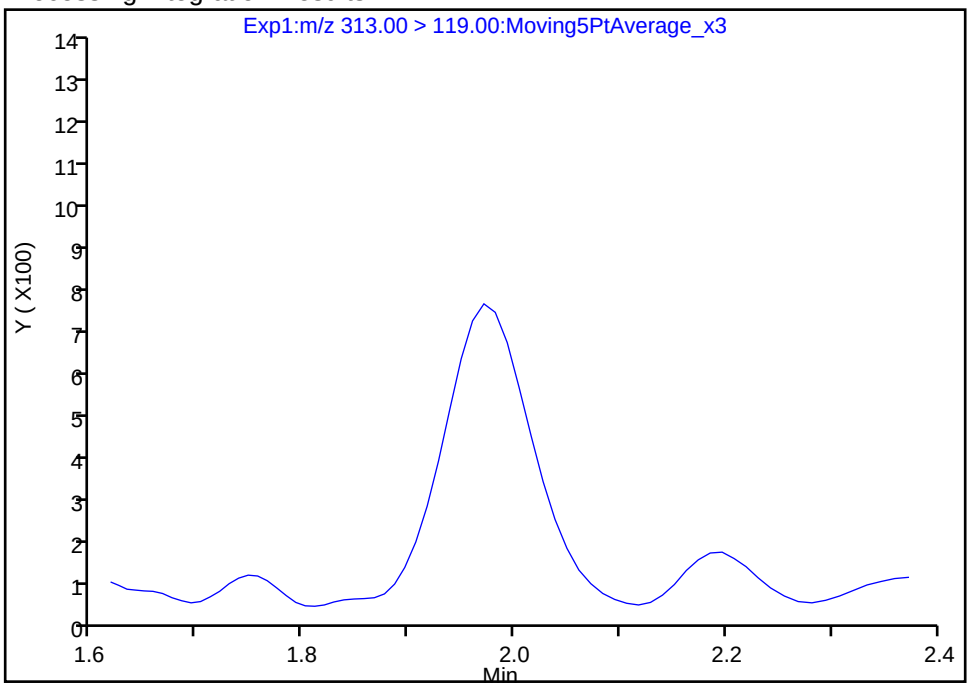
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

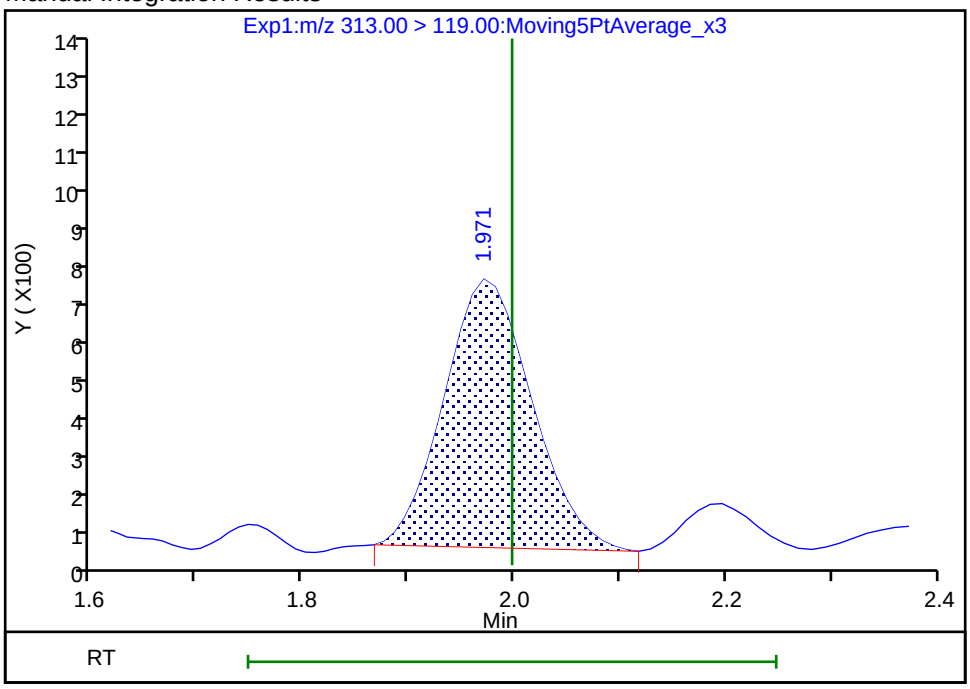
Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 1.97
Area: 4020
Amount: 0.025033
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:17
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

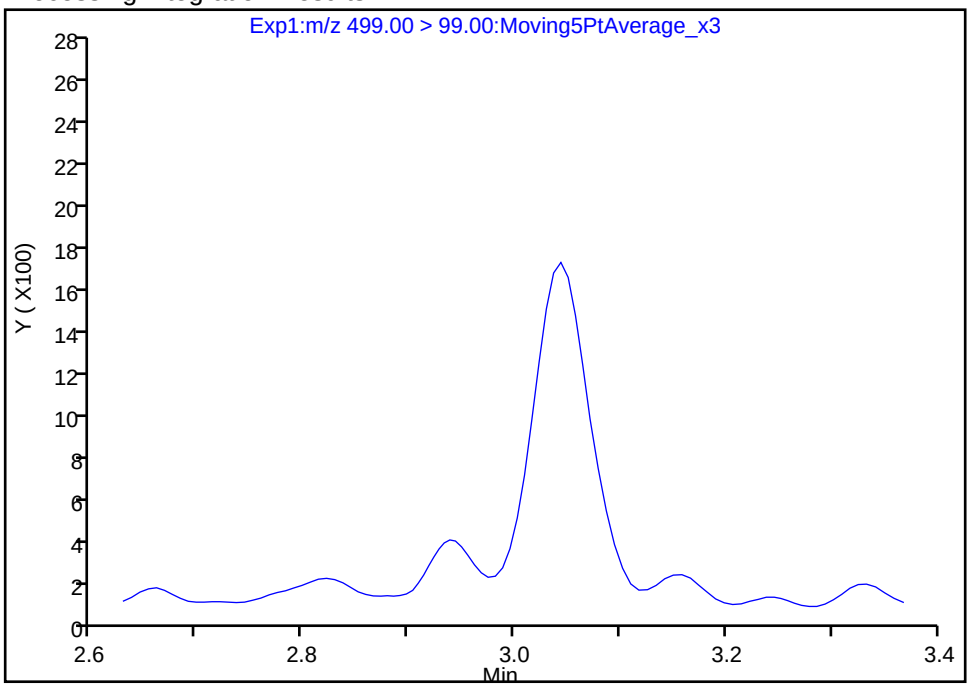
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_002.d
Injection Date: 11-Jul-2018 14:48:59 Instrument ID: A8_N
Lims ID: IC L1 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 10 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

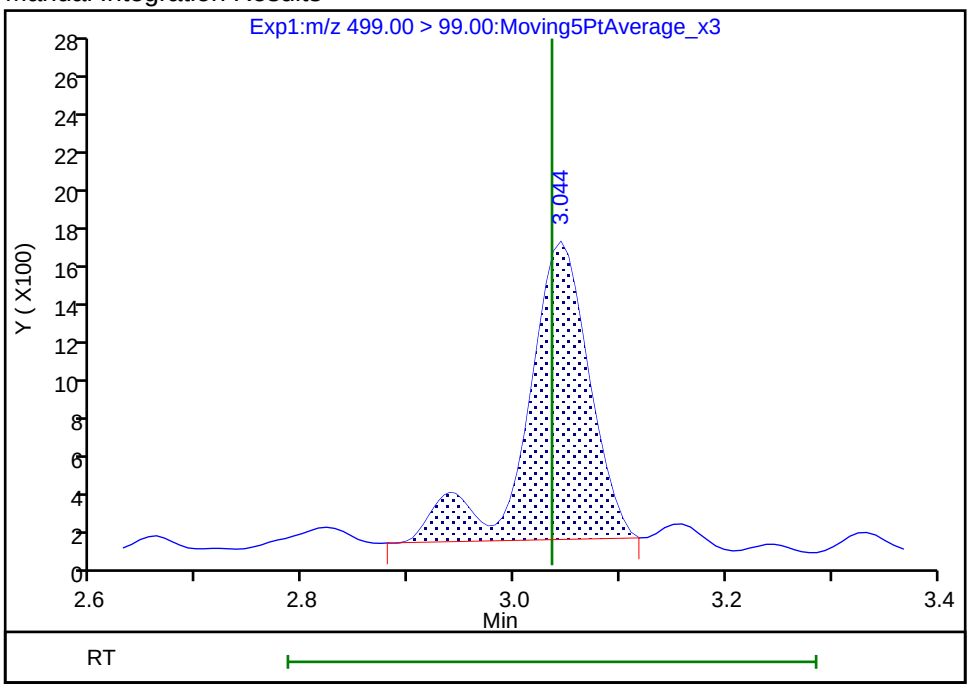
Processing Integration Results

RT: 3.03
Area: 0
Amount: 0.025719
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 6341
Amount: 0.024079
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:13:33
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Lims ID: IC L2 Full
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 11-Jul-2018 14:59:35 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L2-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:24 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:14:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.428	1.431	-0.003	0.534	5621166	2.34		93.6	27203	
2 Perfluorobutyric acid										
212.90 > 169.00	1.428	1.431	-0.003	1.000	109256	0.0493		98.6	39.2	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.716	1.702	0.014	1.005	103977	0.0549		110	36.1	
D 3 13C5-PFPeA										
267.90 > 223.00	1.707	1.702	0.005	0.639	3905774	2.34		93.6	45504	
D 47 13C3-PFBS										
301.90 > 83.00	1.752	1.748	0.004	0.656	94108	2.24		96.5	592	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.752	1.751	0.001	1.000	137206	0.0443		100	2151	
298.90 > 99.00	1.752	1.751	0.001	1.000	53563		2.56(1.25-3.74)	100	710	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.966	1.962	0.004	1.122	23943	0.0455		97.4	1421	
D 60 M2-4:2FTS										
329.00 > 81.00	1.966	1.962	0.004	0.736	509407	2.26		96.8	8344	
D 7 13C2 PFHxA										
315.00 > 270.00	1.999	1.996	0.003	0.748	4333312	2.41		96.2	64902	
6 Perfluorohexanoic acid										M
313.00 > 269.00	1.999	1.998	0.001	1.000	97977	0.0549		110	183	M
313.00 > 119.00	1.999	1.998	0.001	1.000	6918		14.16(5.03-15.10)	110	125	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	133528	0.0473		101	2986	
349.00 > 99.00	2.022	2.022	0.0	1.154	49366		2.70(1.36-4.07)	101	988	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.093	-0.003	0.782	284852	2.22		88.9	8528	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										M
329.10 > 285.00	2.090	2.095	-0.005	1.000	15816	0.0523		105	83.0	M
D 9 13C4-PFHpA										
367.00 > 322.00	2.315	2.319	-0.004	0.866	3963601	2.39		95.5	39266	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.315	2.319	-0.004	1.000	99091	0.0540		108	190	
363.00 > 169.00	2.315	2.319	-0.004	1.000	33565		2.95(1.13-3.40)	108	294	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.332	-0.004	1.000	120291	0.0457		100	1829	
399.00 > 99.00	2.329	2.332	-0.004	1.000	39862		3.02(1.50-4.49)	100	297	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.334	-0.006	0.871	5419785	2.31		97.5	38199	
65 Adona										
377.00 > 251.00	2.355	2.360	-0.005	0.777	258910	0.0472		100	3460	
377.00 > 85.00	2.355	2.360	-0.005	0.777	138046		1.88(0.84-2.53)	100	781	
D 12 M2-6:2FTS										
429.00 > 81.00	2.642	2.645	-0.003	0.989	834970	2.35		98.8	12376	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.650	2.648	0.002	1.003	25517	0.0464		97.9	550	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.672	0.001	1.000	112267	0.0542		108	71.2	
413.00 > 169.00	2.665	2.672	-0.007	0.997	54050		2.08(0.84-2.52)	108	261	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.672	0.001		4427596	2.50			33183	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.672	0.001	1.000	4207903	2.49		99.4	45634	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.678	-0.005	0.882	100280	0.0447		93.9	3509	
449.00 > 99.00	2.673	2.678	-0.005	0.882	27817		3.60(1.94-5.82)	93.9	749	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.034	-0.002	1.134	4069838	2.36		98.7	38607	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.035	-0.003	1.134	3839924	2.54		101	39904	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.035	-0.003	1.000	89440	0.0464		99.9	2154	
499.00 > 99.00	3.032	3.035	-0.003	1.000	18719		4.78(2.31-6.93)	99.9	310	
20 Perfluorononanoic acid										
463.00 > 419.00	3.039	3.036	0.003	1.002	84772	0.0498		99.5	213	
463.00 > 169.00	3.032	3.036	-0.004	1.000	19632		4.32(1.90-5.69)	99.5	740	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.247	3.245	0.002	1.071	146856	0.0470		101	1774	
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.367	0.003	1.261	6150410	2.47		98.9	32394	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.371	-0.001	1.000	123192	0.0508		102	2778	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.379	3.377	0.002	1.114	60641	0.0459		95.7	2262	
549.00 > 99.00	3.379	3.377	0.002	1.114	24151		2.51(1.33-3.97)	95.7	351	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.380	-0.001	1.000	32747	0.0447		93.4	733	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.380	-0.001	1.264	1358867	2.61		109	17826	
D 23 13C2 PFDA										
515.00 > 470.00	3.388	3.391	-0.003	1.268	3274309	2.46		98.6	32070	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.388	3.392	-0.004	1.000	74013	0.0539		108	406	
513.00 > 169.00	3.388	3.392	-0.004	1.000	10870		6.81(2.36-7.09)	108	412	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.547	3.544	0.003	1.327	1276369	2.34		93.7	19760	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.547	3.548	-0.001	1.000	24180	0.0480		96.1	215	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.701	-0.004	1.219	52427	0.0459		95.1	1367	
599.00 > 99.00	3.697	3.701	-0.004	1.219	18077		2.90(1.39-4.16)	95.1	758	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.710	-0.002	1.387	1427681	2.56		102	4014	
D 30 13C2 PFUnA										
565.00 > 520.00	3.719	3.716	0.003	1.391	2825527	2.55		102	42065	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.719	3.718	0.001	1.003	26557	0.0526		105	439	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.719	3.718	0.001	1.000	49158	0.0531		106	200	
563.00 > 169.00	3.719	3.718	0.001	1.000	14212		3.46(2.12-6.36)	106	596	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.876	3.874	0.002	1.278	209574	0.0464		98.5	6254	
D 36 13C2 PFDoA										
615.00 > 570.00	4.008	4.009	-0.001	1.500	2796780	2.43		97.2	22020	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.008	4.011	-0.003	1.000	55796	0.0457		91.4	28.2	
613.00 > 169.00	4.008	4.011	-0.003	1.000	12342		4.52(2.13-6.40)	91.4	363	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.066	57570	0.0482		96.4	22.2	
663.00 > 169.00	4.271	4.273	-0.002	1.066	17855		3.22(1.25-3.76)	96.4	396	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.511	4.508	0.003	1.688	2667637	2.23		89.4	13833	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.511	4.508	0.003	1.000	15573	0.0561		112	297	
713.00 > 219.00	4.500	4.508	-0.008	0.998	10316		1.51(0.71-2.13)	112	235	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.921	4.918	0.003	1.841	4084288	2.15		85.9	10856	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.921	4.918	0.003	1.000	111481	0.0502		100	26.1	
813.00 > 169.00	4.921	4.918	0.003	1.000	18505		6.02(2.86-8.58)	100	203	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.276	5.271	0.005	1.072	97895	0.0524		105	20.7	
913.00 > 169.00	5.269	5.271	-0.002	1.071	11669		8.39(3.83-11.48)	105	192	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d

Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N

Lims ID: IC L2 Full

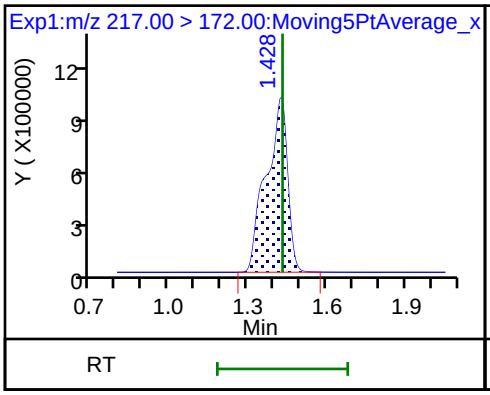
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3

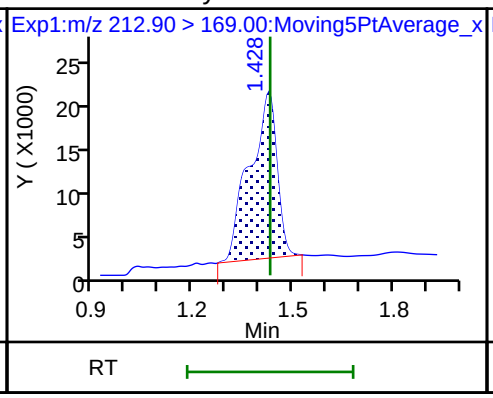
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

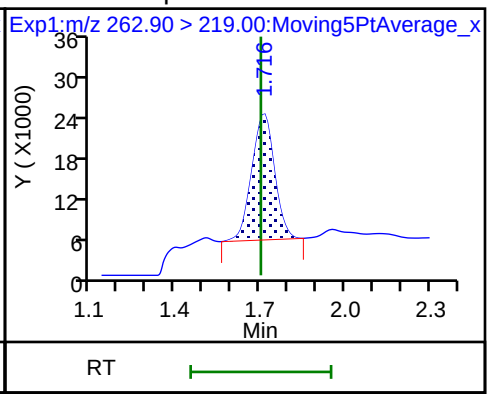
D 1 13C4 PFBA



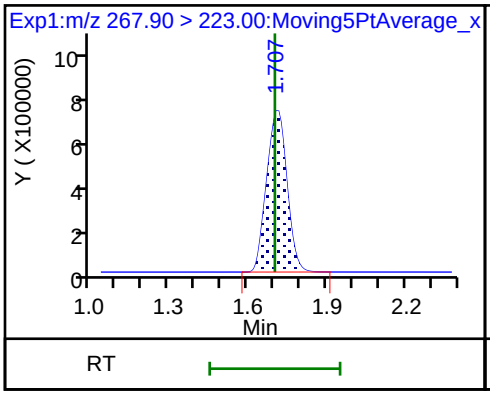
2 Perfluorobutyric acid



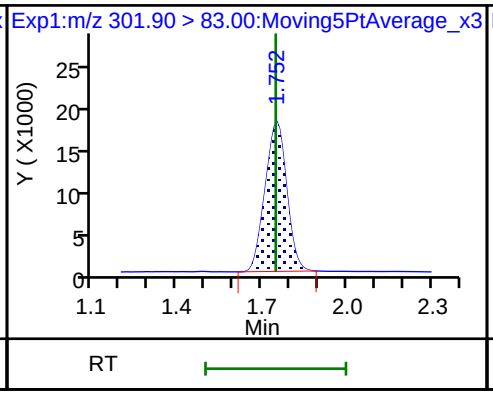
4 Perfluoropentanoic acid



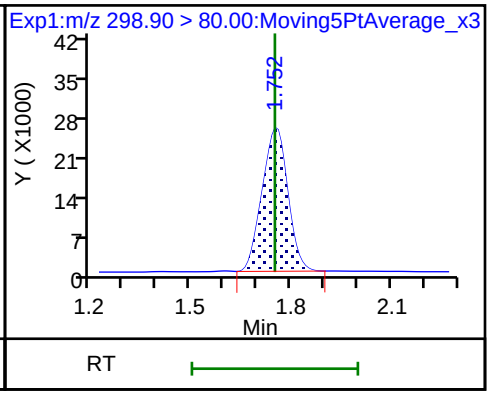
D 3 13C5-PFPeA



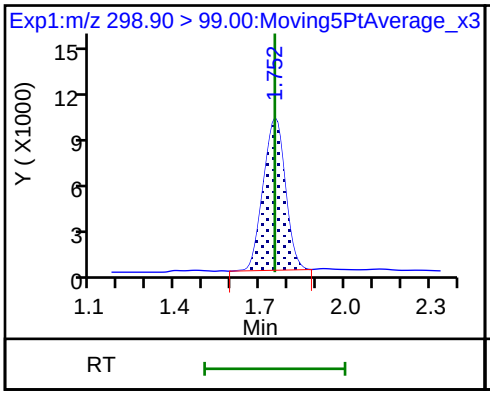
D 47 13C3-PFBS



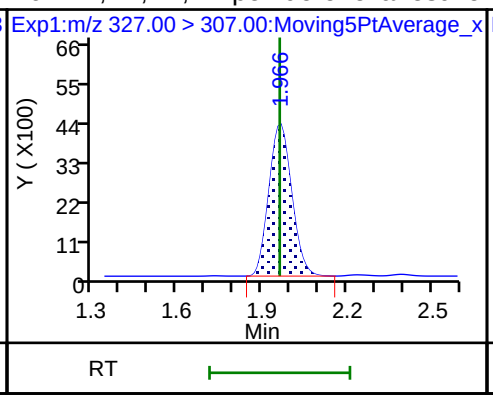
5 Perfluorobutanesulfonic acid



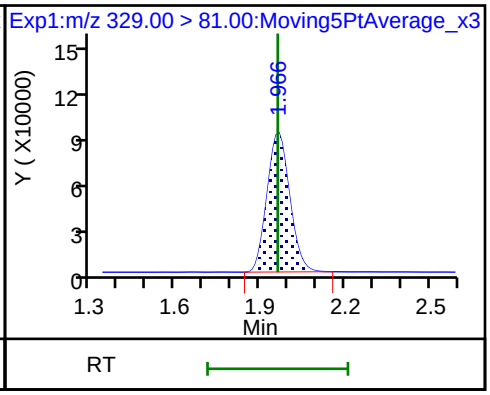
5 Perfluorobutanesulfonic acid



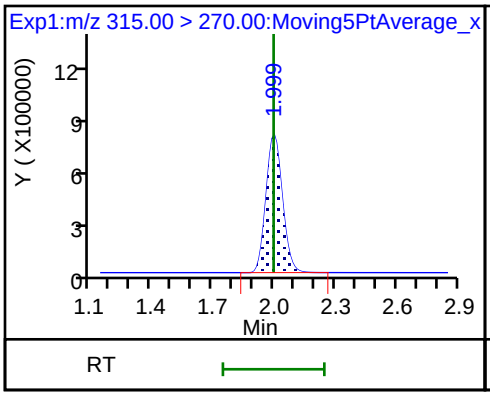
61 1H,1H,2H,2H-perfluorohexanesulfon



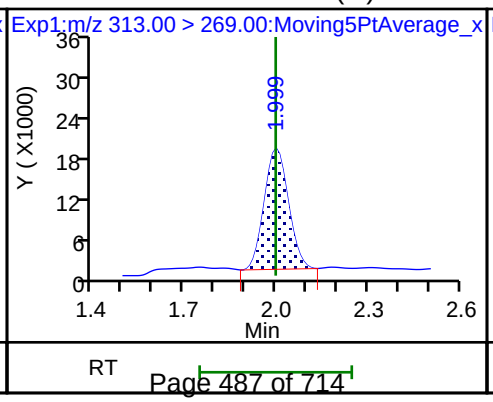
D 60 M2-4:2FTS



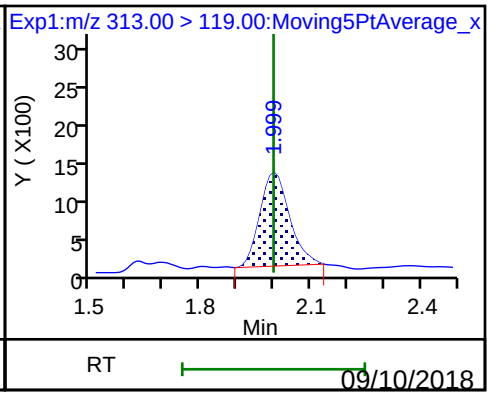
D 7 13C2 PFHxA



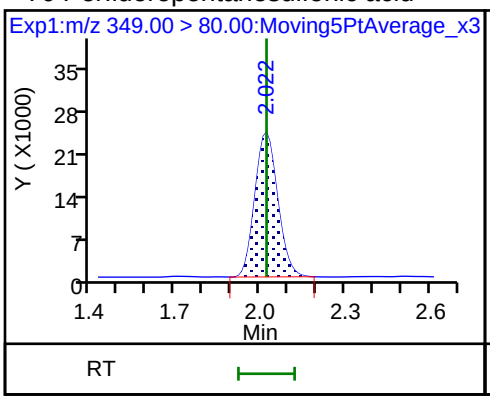
6 Perfluorohexanoic acid (M)



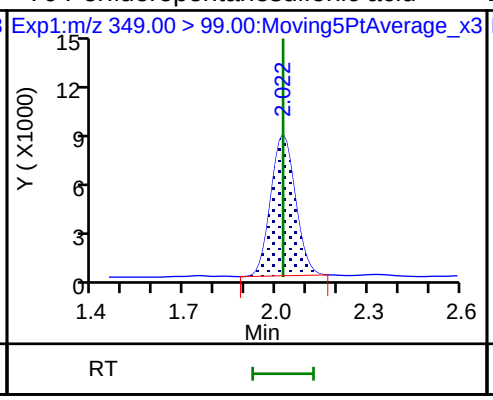
6 Perfluorohexanoic acid



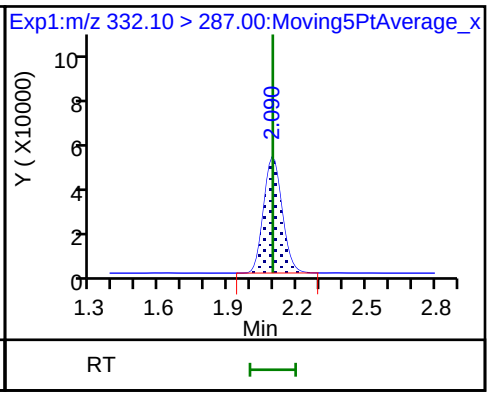
70 Perfluoropentanesulfonic acid



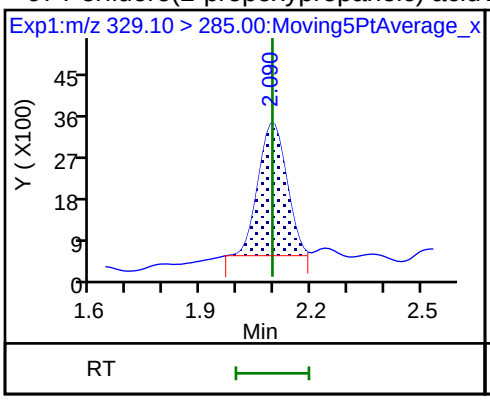
70 Perfluoropentanesulfonic acid



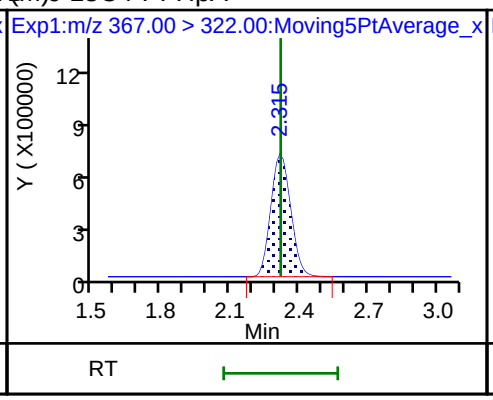
D 64 13C3 HFPO-DA



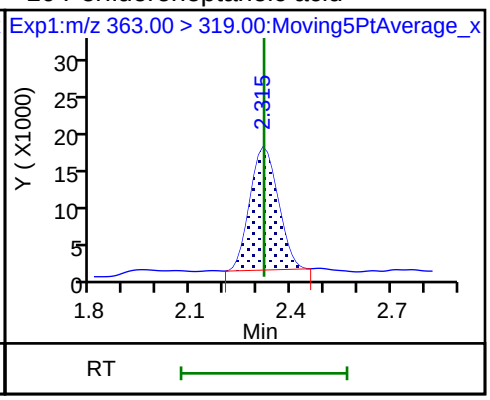
67 Perfluoro(2-propoxypropanoic) acid (M)



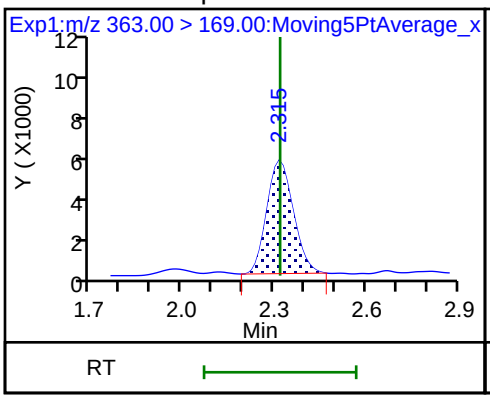
D 9 13C4-PFHpA



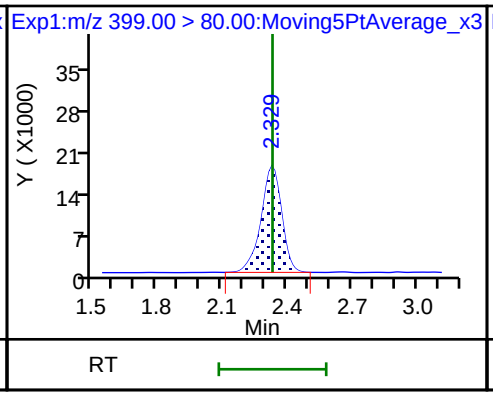
10 Perfluoroheptanoic acid



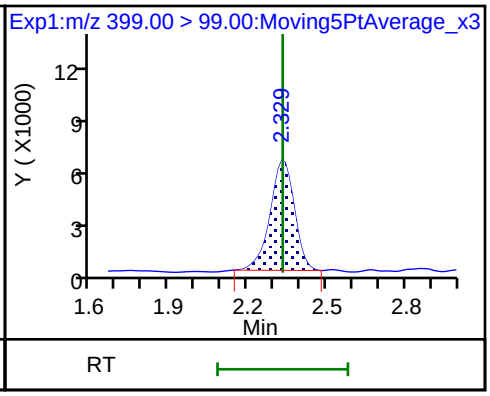
10 Perfluoroheptanoic acid



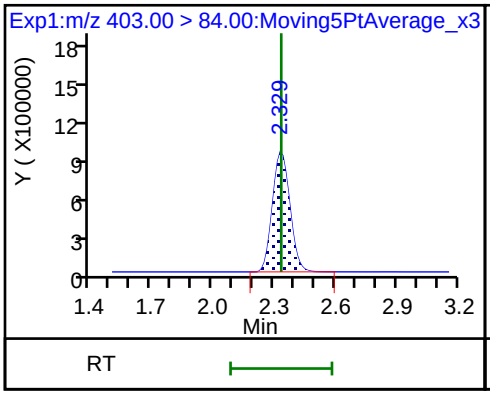
8 Perfluorohexanesulfonic acid



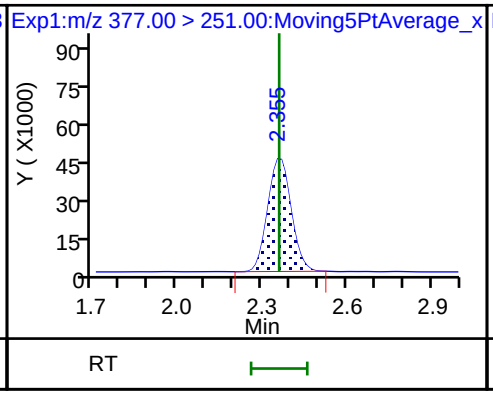
8 Perfluorohexanesulfonic acid



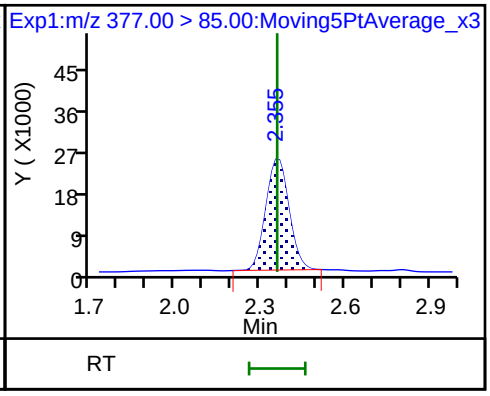
D 11 18O2 PFHxS



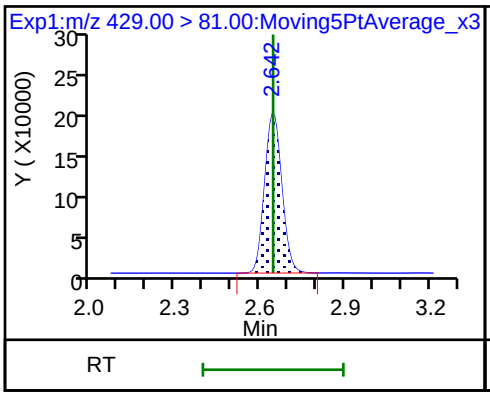
65 Adona



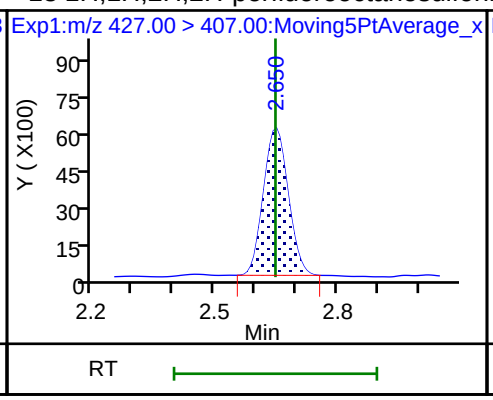
65 Adona



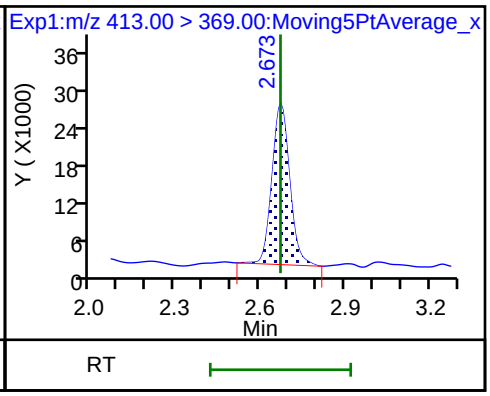
D 12 M2-6:2FTS



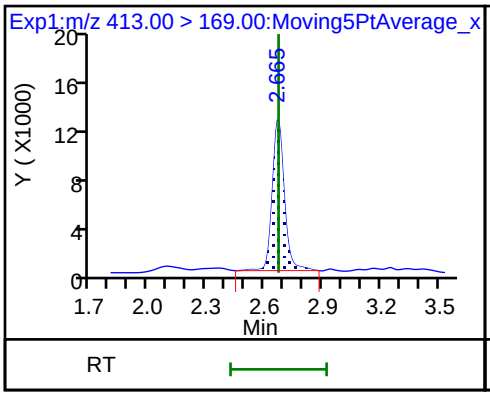
13 1H,1H,2H,2H-perfluorooctanesulfoni



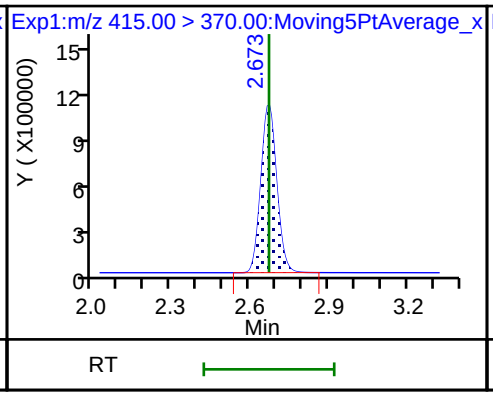
15 Perfluorooctanoic acid



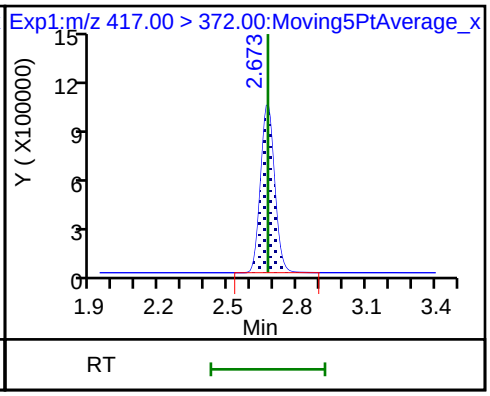
15 Perfluorooctanoic acid



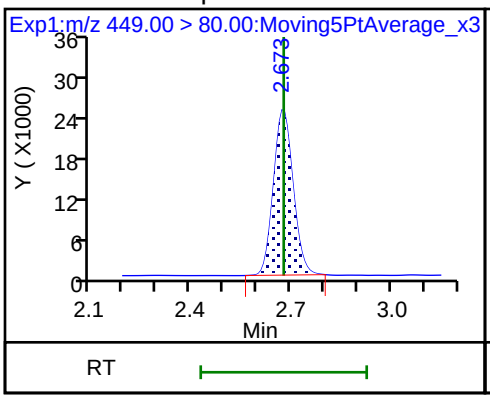
* 62 13C2-PFOA



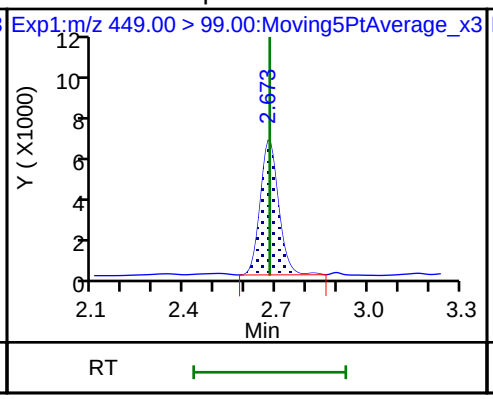
D 14 13C4 PFOA



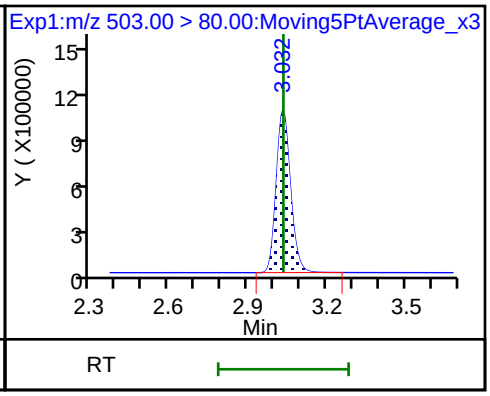
16 Perfluoroheptanesulfonic acid



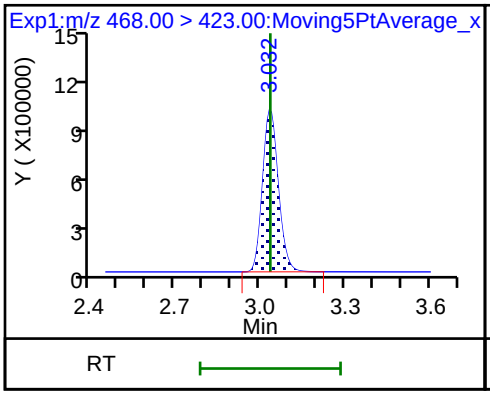
16 Perfluoroheptanesulfonic acid



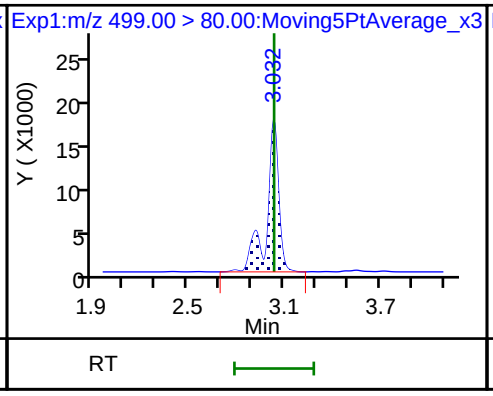
D 18 13C4 PFOS



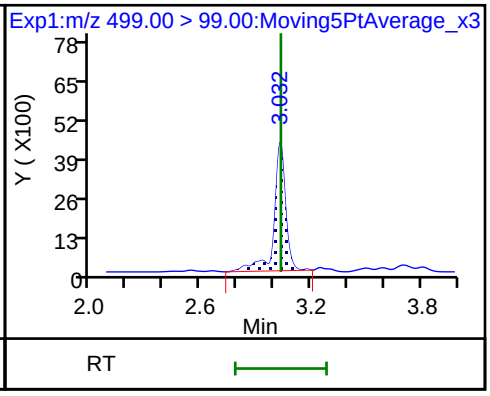
D 19 13C5 PFNA



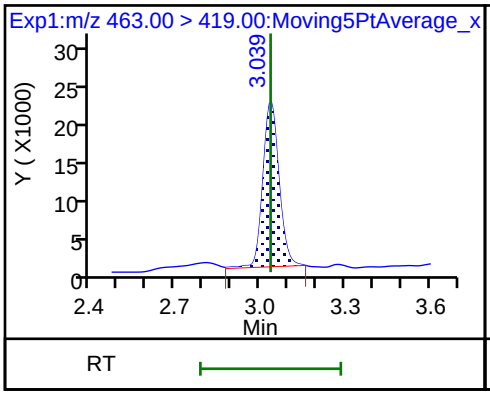
17 Perfluorooctane sulfonic acid



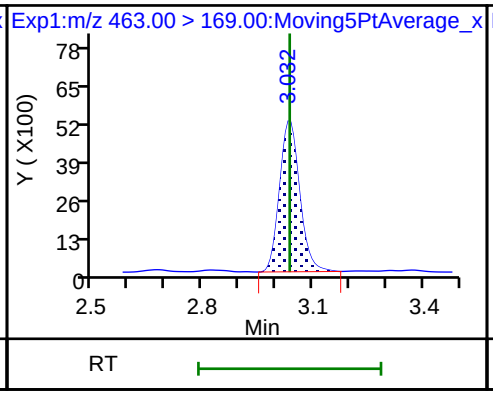
17 Perfluorooctane sulfonic acid



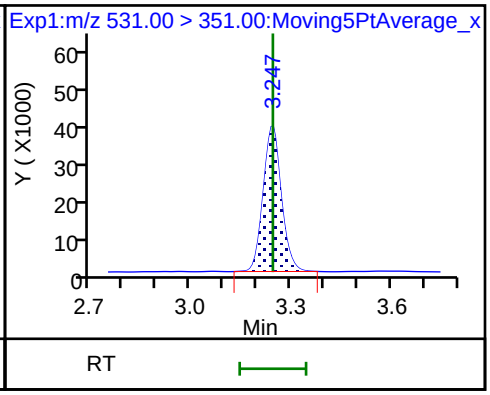
20 Perfluorononanoic acid



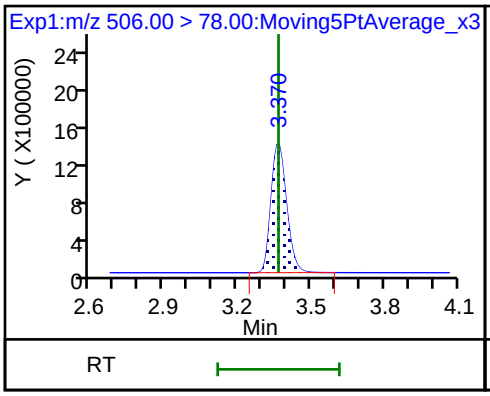
20 Perfluorononanoic acid



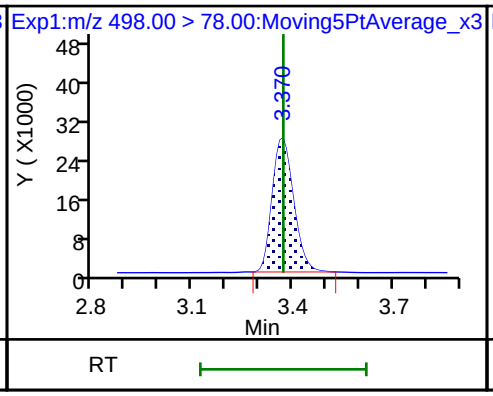
69 9-Chlorohexadecafluoro-3-oxanonane



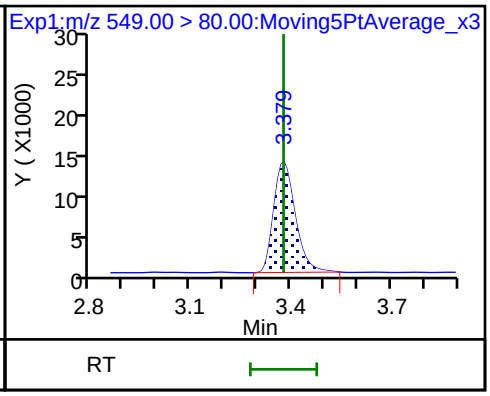
D 21 13C8 FOSA



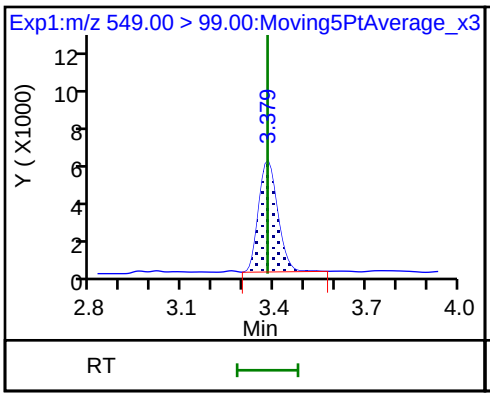
22 Perfluorooctane Sulfonamide



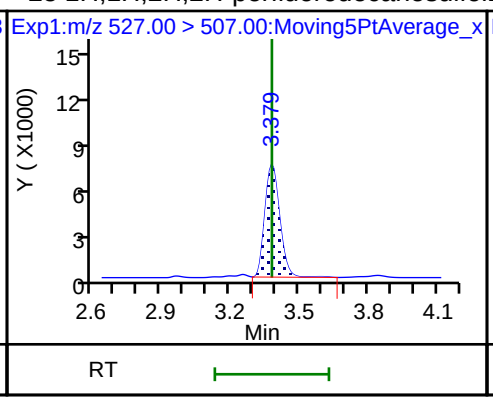
68 Perfluorononanesulfonic acid



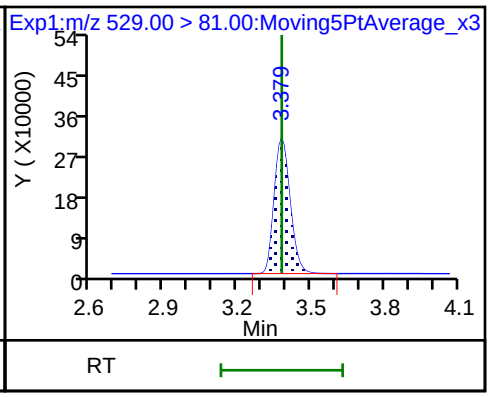
68 Perfluorononanesulfonic acid



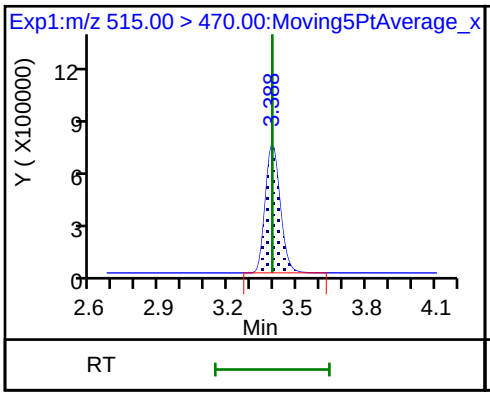
25 1H,1H,2H,2H-perfluorodecanesulfon



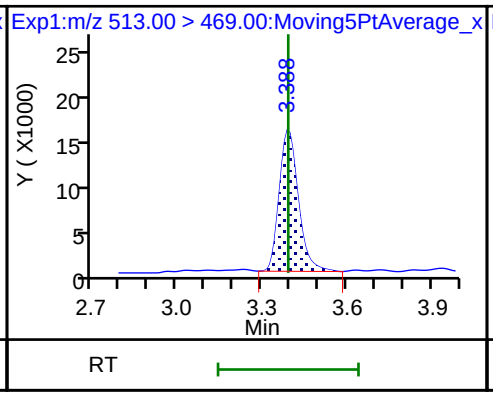
D 26 M2-8:2FTS



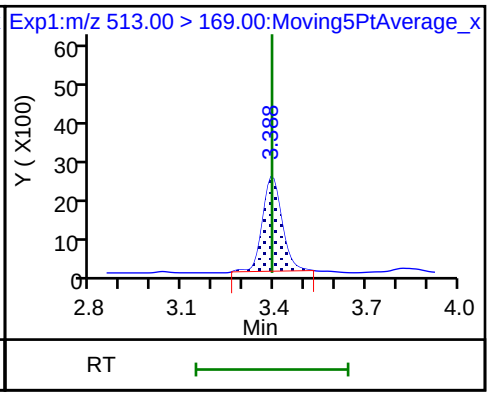
D 23 13C2 PFDA



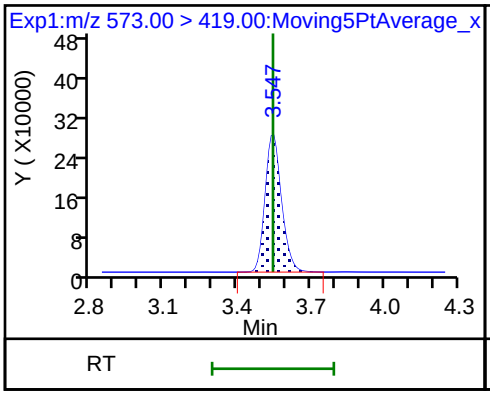
24 Perfluorodecanoic acid



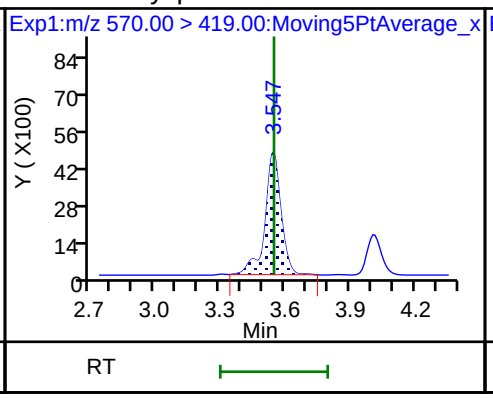
24 Perfluorodecanoic acid



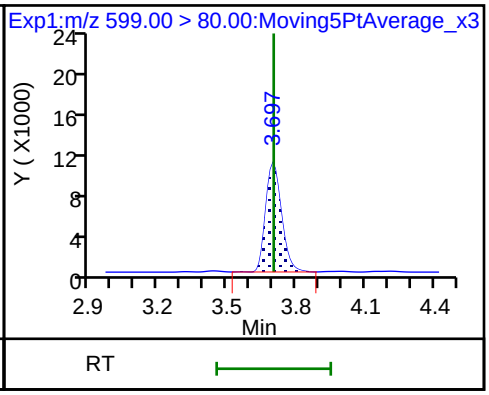
D 27 d3-NMeFOSAA



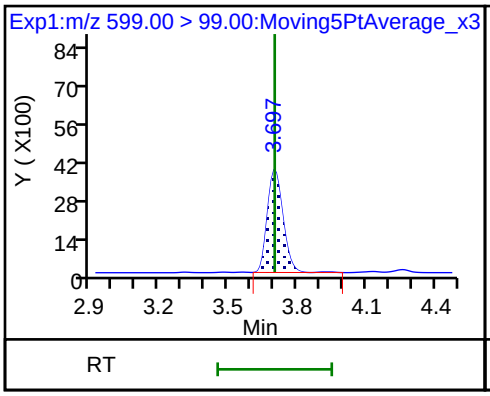
28 N-methyl perfluorooctane sulfonami



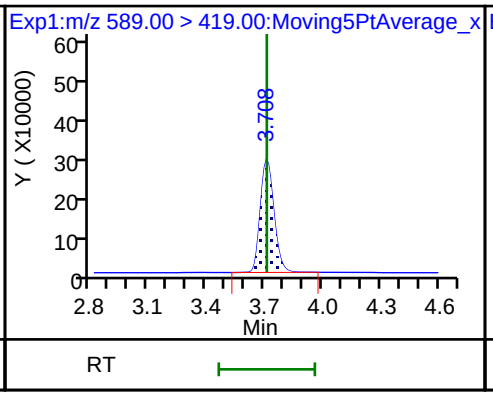
29 Perfluorodecane Sulfonic acid



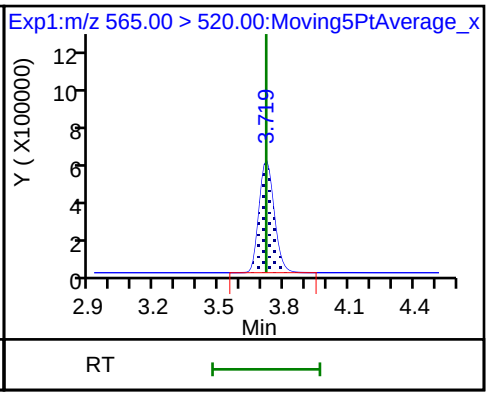
29 Perfluorodecane Sulfonic acid



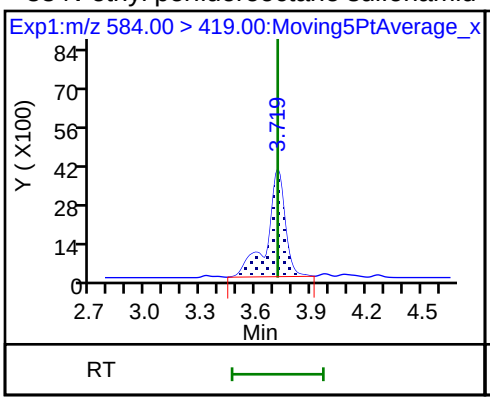
D 32 d5-NEtFOSAA



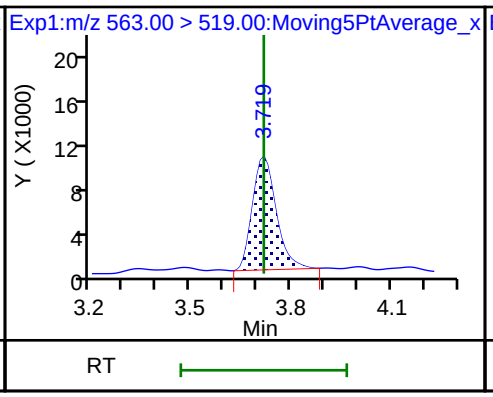
D 30 13C2 PFUnA



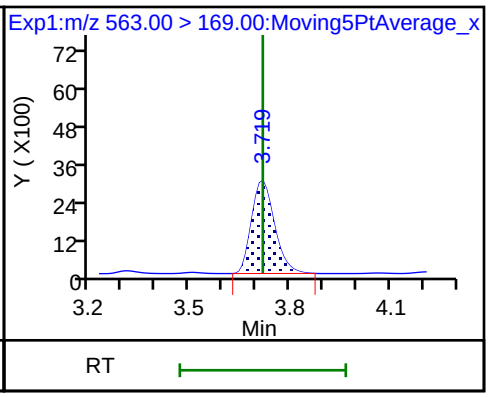
33 N-ethyl perfluorooctane sulfonamid



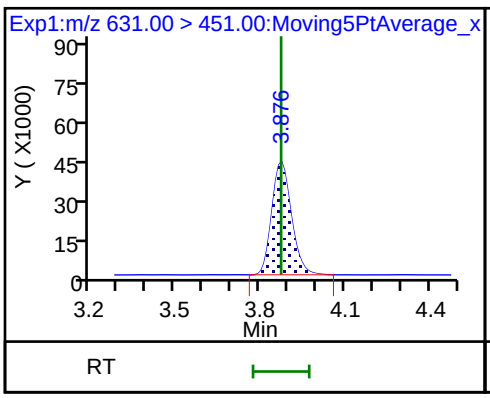
31 Perfluoroundecanoic acid



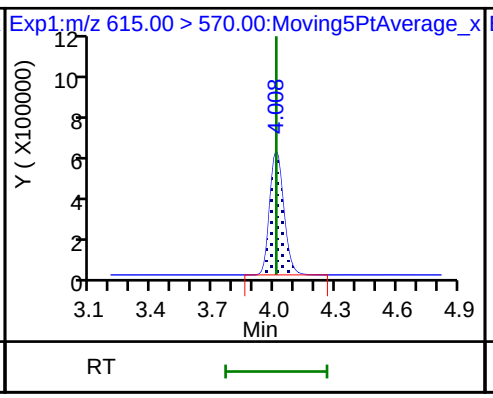
31 Perfluoroundecanoic acid



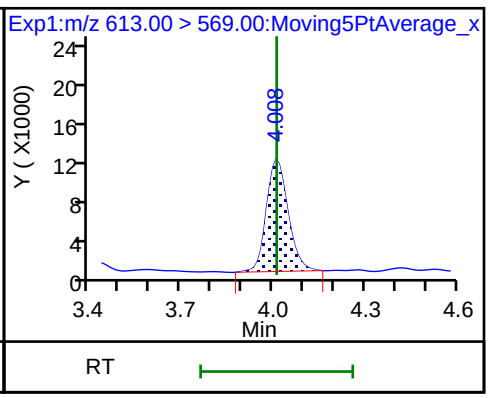
66 11-Chloroeicosafluoro-3-oxaundecan



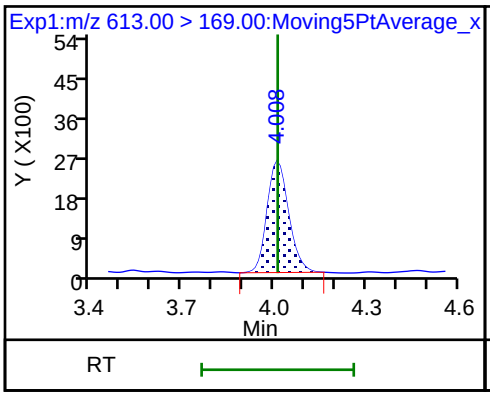
D 36 13C2 PFDoA



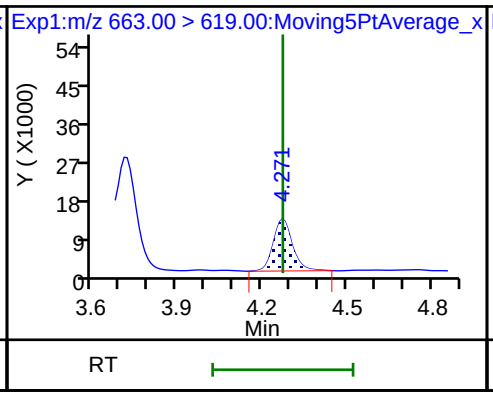
37 Perfluorododecanoic acid



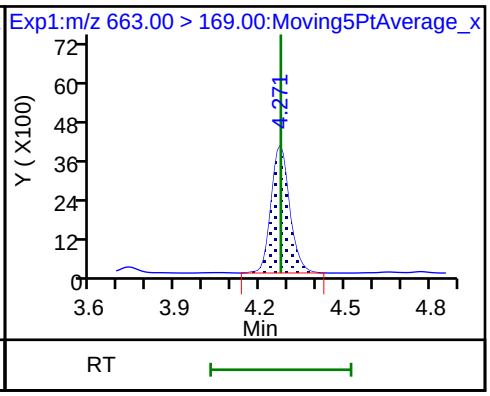
37 Perfluorododecanoic acid



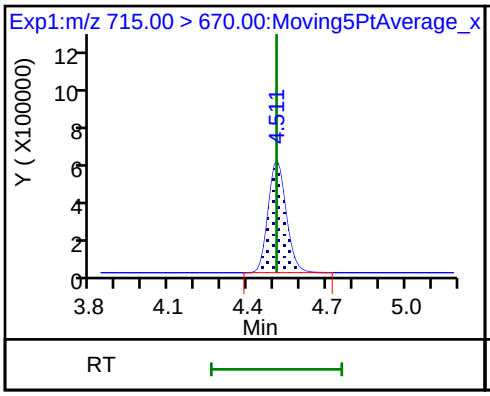
41 Perfluorotridecanoic acid



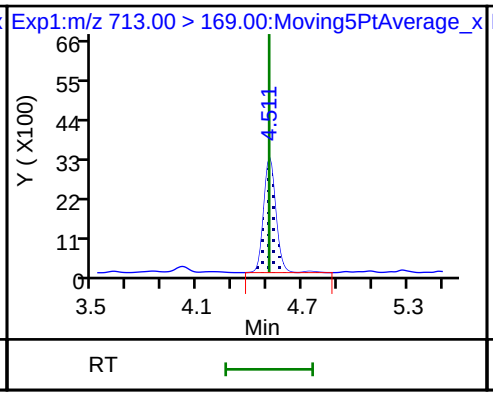
41 Perfluorotridecanoic acid



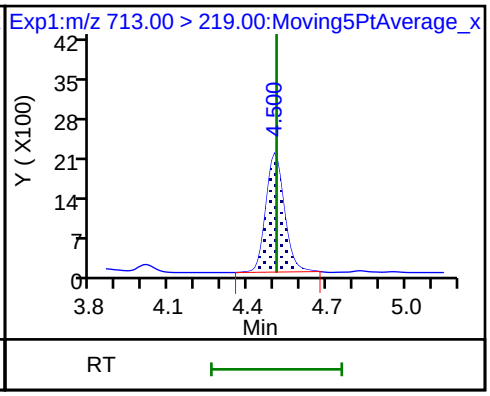
D 43 13C2-PFTeDA



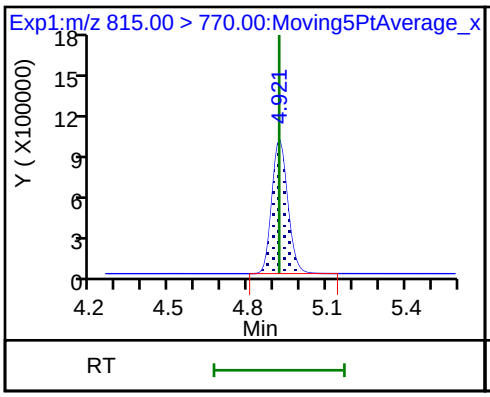
42 Perfluorotetradecanoic acid



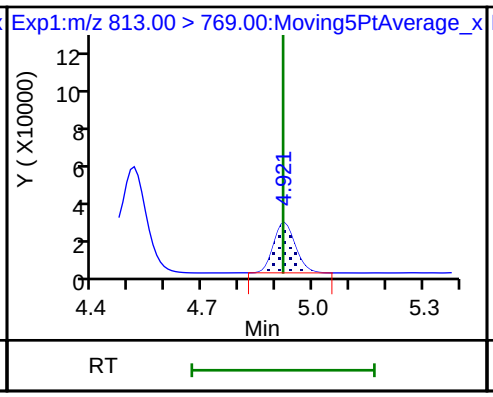
42 Perfluorotetradecanoic acid



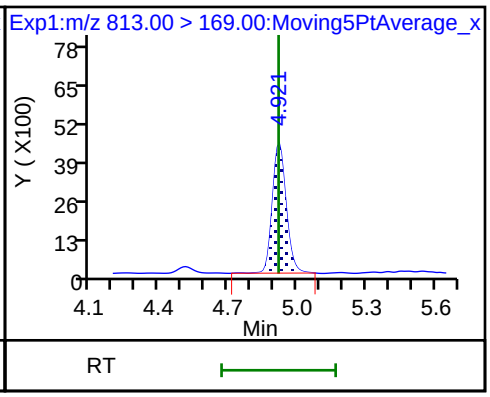
D 44 13C2-PFHxDA



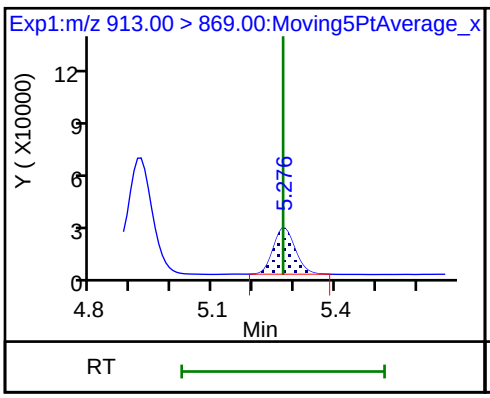
45 Perfluorohexadecanoic acid



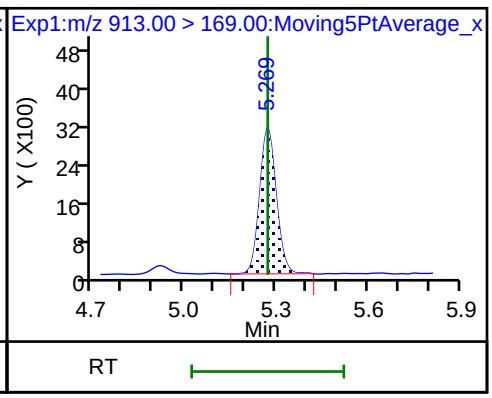
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

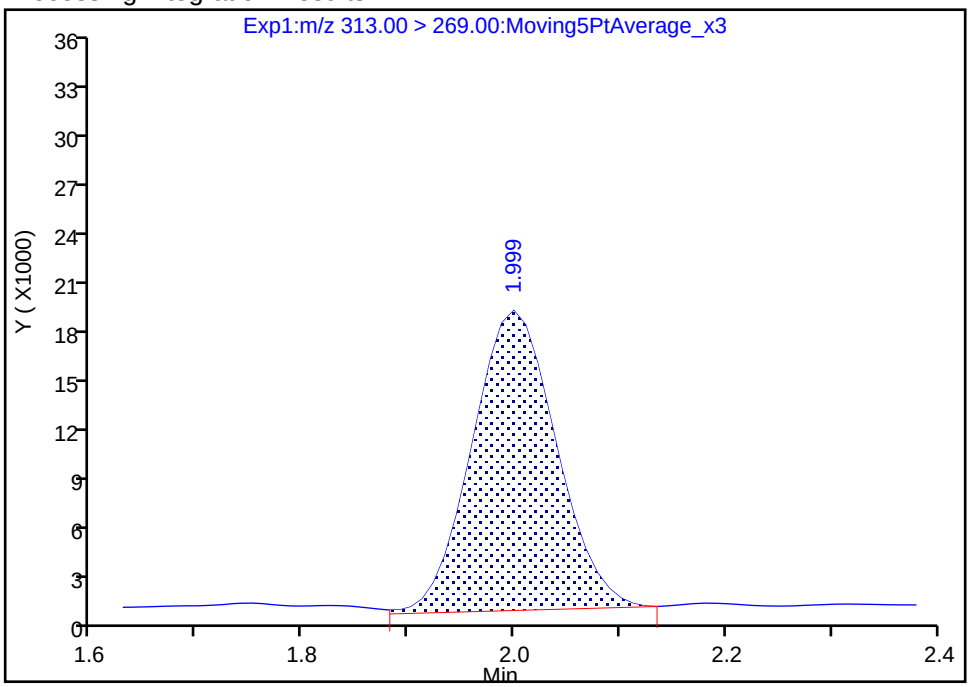
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

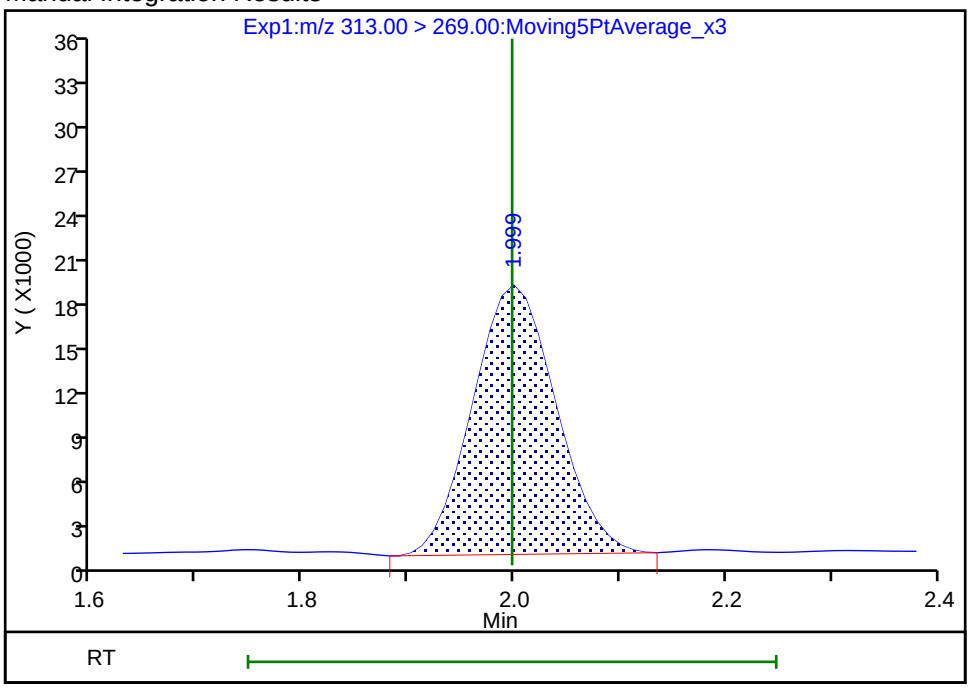
Processing Integration Results

RT: 2.00
Area: 99760
Amount: 0.055756
Amount Units: ng/ml



Manual Integration Results

RT: 2.00
Area: 97977
Amount: 0.054916
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:14:11
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

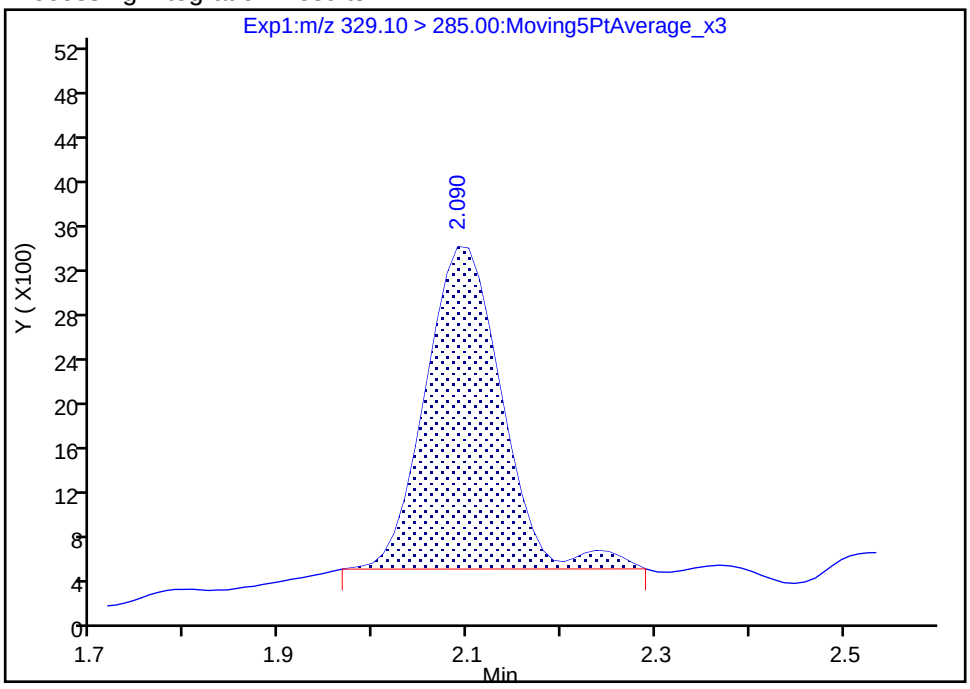
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_003.d
Injection Date: 11-Jul-2018 14:59:35 Instrument ID: A8_N
Lims ID: IC L2 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 11 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

67 Perfluoro(2-propoxypropanoic) acid, CAS: 13252-13-6

Signal: 1

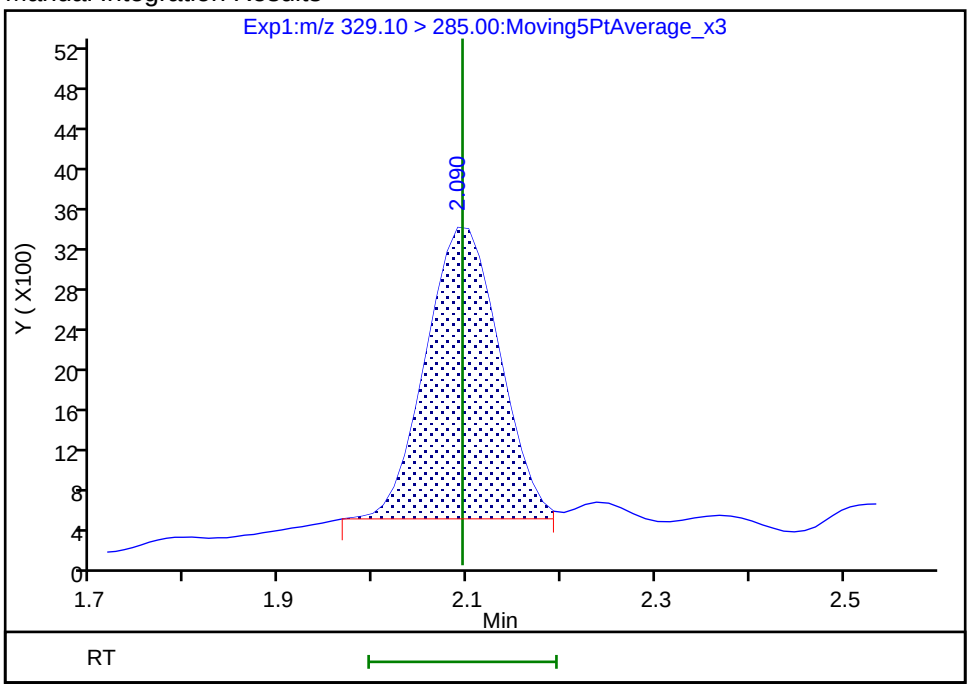
Processing Integration Results

RT: 2.09
Area: 16416
Amount: 0.053978
Amount Units: ng/ml



Manual Integration Results

RT: 2.09
Area: 15816
Amount: 0.052300
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:14:48
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Lims ID: IC L3 Full
Client ID:
Sample Type: IC Calib Level: 3
Inject. Date: 11-Jul-2018 15:07:23 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L3-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:30 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:15:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.433	1.431	0.002	0.536	5436336	2.41		96.4	24567	
2 Perfluorobutyric acid										
212.90 > 169.00	1.433	1.431	0.002	1.000	529569	0.2471		98.8	202	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.717	1.702	0.015	1.000	457354	0.2433		97.3	160	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.702	0.015	0.642	3873105	2.47		98.8	42101	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.748	0.005	0.656	88873	2.26		97.0	524	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.751	0.011	1.005	638814	0.2185		98.9	8863	
298.90 > 99.00	1.762	1.751	0.011	1.005	266379		2.40(1.25-3.74)	98.9	3761	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.962	0.005	1.122	121859	0.2452		105	7228	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.962	0.005	0.736	453992	2.15		91.9	6280	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	1.996	0.004	0.748	4144632	2.45		98.0	56089	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	1.998	0.002	1.000	407905	0.2390		95.6	865	
313.00 > 119.00	2.011	1.998	0.013	1.006	41779		9.76(5.03-15.10)	95.6	715	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	586514	0.2199		93.8	12660	
349.00 > 99.00	2.022	2.022	0.0	1.154	229923		2.55(1.36-4.07)	93.8	4978	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.093	0.008	0.786	281279	2.34		93.5	7182	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.095	0.006	1.000	79161	0.2651		106	493	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.319	-0.003	0.866	3856910	2.48		99.0	30519	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.319	-0.003	1.000	425549	0.2385		95.4	899	
363.00 > 169.00	2.329	2.319	0.010	1.006	165310		2.57(1.13-3.40)	95.4	1725	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.332	-0.003	0.994	552716	0.2184		96.0	6193	
399.00 > 99.00	2.329	2.332	-0.003	0.994	175761		3.14(1.50-4.49)	96.0	1241	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.334	0.008	0.876	5214223	2.36		99.9	45677	
65 Adona										
377.00 > 251.00	2.369	2.360	0.009	0.779	1281398	0.2554		108	20243	
377.00 > 85.00	2.369	2.360	0.009	0.779	705403		1.82(0.84-2.53)	108	4501	
D 12 M2-6:2FTS										
429.00 > 81.00	2.651	2.645	0.006	0.992	825525	2.47		104	16673	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.648	0.003	1.000	126798	0.2332		98.4	3070	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.672	0.001	1.000	477183	0.2439		97.5	300	
413.00 > 169.00	2.673	2.672	0.001	1.000	243974		1.96(0.84-2.52)	97.5	1162	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.672	0.001		4157437	2.50			35542	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.672	0.001	1.000	3971401	2.50		99.9	35256	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.681	2.678	0.003	0.882	473940	0.2308		97.0	10273	
449.00 > 99.00	2.681	2.678	0.003	0.882	132840		3.57(1.94-5.82)	97.0	3201	
D 18 13C4 PFOS										
503.00 > 80.00	3.041	3.034	0.006	1.137	3725581	2.30		96.2	37410	
D 19 13C5 PFNA										
468.00 > 423.00	3.041	3.035	0.005	1.137	3471672	2.44		97.7	33386	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.041	3.035	0.005	1.000	401226	0.2271		97.9	16115	M
499.00 > 99.00	3.041	3.035	0.005	1.000	96776		4.15(2.31-6.93)	97.9	1665	
20 Perfluorononanoic acid										
463.00 > 419.00	3.041	3.036	0.004	1.000	400644	0.2601		104	1028	
463.00 > 169.00	3.041	3.036	0.004	1.000	95787		4.18(1.90-5.69)	104	4136	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.248	3.245	0.003	1.068	651675	0.2277		97.7	6549	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.367	0.005	1.261	5880733	2.52		101	49438	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.371	0.001	1.000	554186	0.2390		95.6	12564	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.382	3.377	0.005	1.112	284813	0.2357		98.2	7165	
549.00 > 99.00	3.382	3.377	0.005	1.112	107969		2.64(1.33-3.97)	98.2	2059	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.382	3.380	0.002	1.000	159408	0.2293		95.7	3552	
D 26 M2-8:2FTS										
529.00 > 81.00	3.382	3.380	0.002	1.265	1290698	2.64		110	16986	
D 23 13C2 PFDA										
515.00 > 470.00	3.391	3.391	0.0	1.268	3265845	2.62		105	29557	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.400	3.392	0.008	1.003	342607	0.2499		100.0	1591	
513.00 > 169.00	3.391	3.392	-0.001	1.000	61738		5.55(2.36-7.09)	100.0	2779	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.549	3.544	0.005	1.328	1236119	2.42		96.7	19234	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.549	3.548	0.001	1.000	112830	0.2315		92.6	886	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.711	3.701	0.010	1.220	256645	0.2452		102	8829	
599.00 > 99.00	3.711	3.701	0.010	1.220	89186		2.88(1.39-4.16)	102	1861	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.711	3.710	0.001	1.388	1297377	2.48		99.1	3280	
D 30 13C2 PFUnA										
565.00 > 520.00	3.721	3.716	0.005	1.392	2653699	2.55		102	34580	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.721	3.718	0.003	1.003	130099	0.2836		113	3716	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.721	3.718	0.003	1.000	199100	0.2289		91.6	1135	
563.00 > 169.00	3.721	3.718	0.003	1.000	53794		3.70(2.12-6.36)	91.6	2788	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.878	3.874	0.004	1.275	1059951	0.2563		109	31878	
D 36 13C2 PFDoA										
615.00 > 570.00	4.009	4.009	0.0	1.500	2756034	2.55		102	18796	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.019	4.011	0.008	1.003	296160	0.2460		98.4	160	
613.00 > 169.00	4.019	4.011	0.008	1.003	71984		4.11(2.13-6.40)	98.4	2474	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.272	4.273	-0.001	1.066	297546	0.2528		101	132	
663.00 > 169.00	4.272	4.273	-0.001	1.066	94397		3.15(1.25-3.76)	101	1582	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.511	4.508	0.003	1.687	2913500	2.60		104	13512	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.511	4.508	0.003	1.000	71477	0.2357		94.3	1159	
713.00 > 219.00	4.511	4.508	0.003	1.000	50792		1.41(0.71-2.13)	94.3	1208	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.922	4.918	0.004	1.841	4554944	2.55		102	11164	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.922	4.918	0.004	1.000	477512	0.2543		102	115	
813.00 > 169.00	4.922	4.918	0.004	1.000	73483		6.50(2.86-8.58)	102	773	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.276	5.271	0.005	1.072	536098	0.2575		103	109	
913.00 > 169.00	5.276	5.271	0.005	1.072	65383		8.20(3.83-11.48)	103	956	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL3_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d

Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N

Lims ID: IC L3 Full

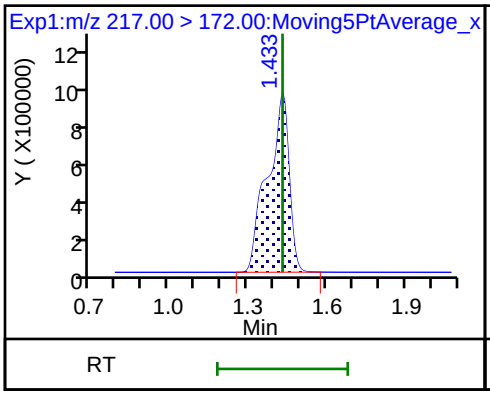
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4

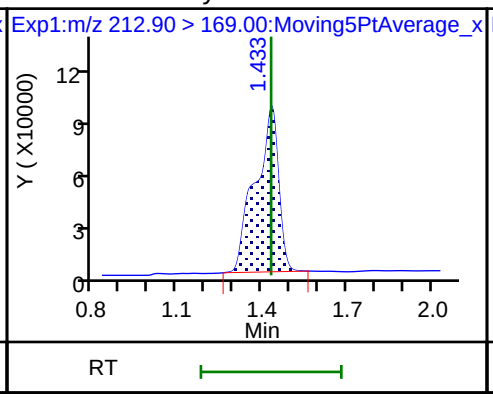
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

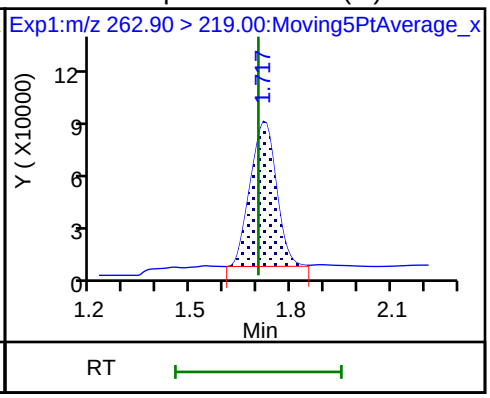
D 1 13C4 PFBA



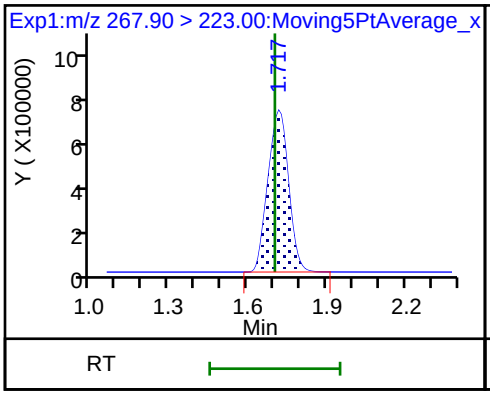
2 Perfluorobutyric acid



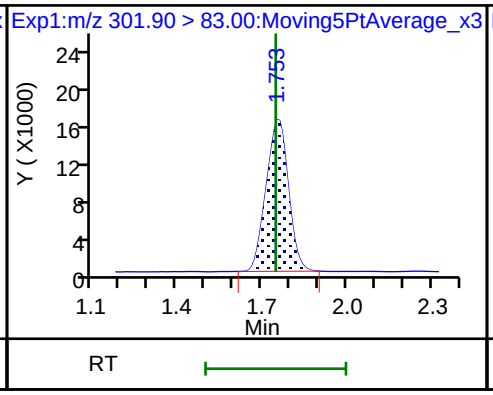
4 Perfluoropentanoic acid (M)



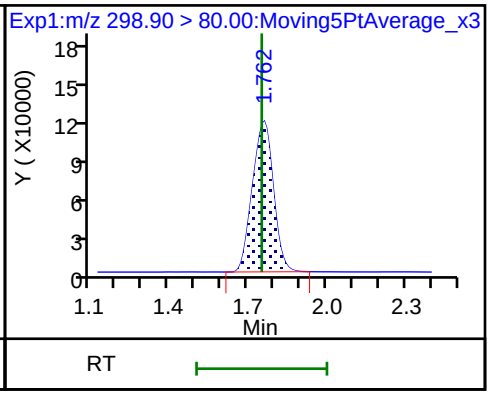
D 3 13C5-PFPeA



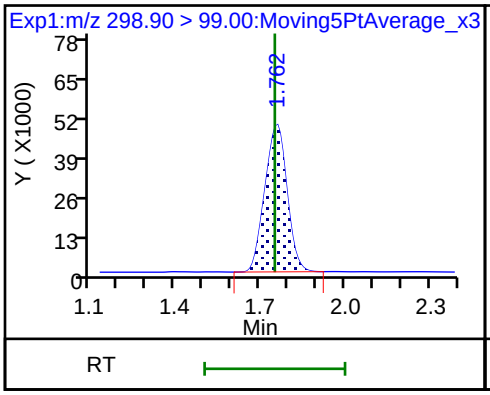
D 47 13C3-PFBS



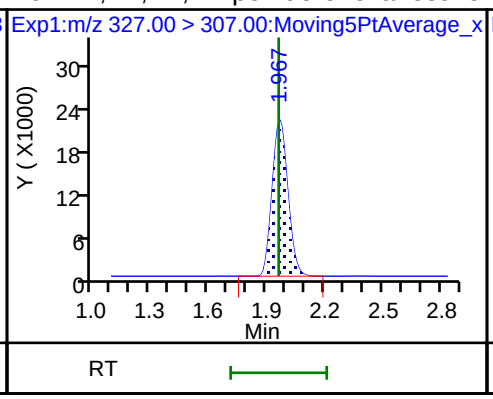
5 Perfluorobutanesulfonic acid



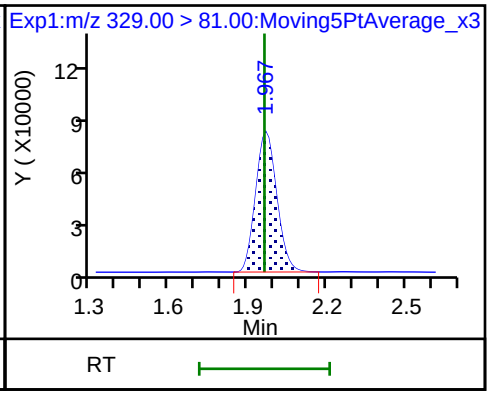
5 Perfluorobutanesulfonic acid



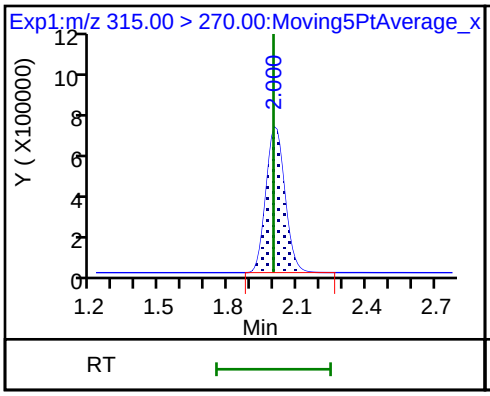
61 1H,1H,2H,2H-perfluorohexanesulfon



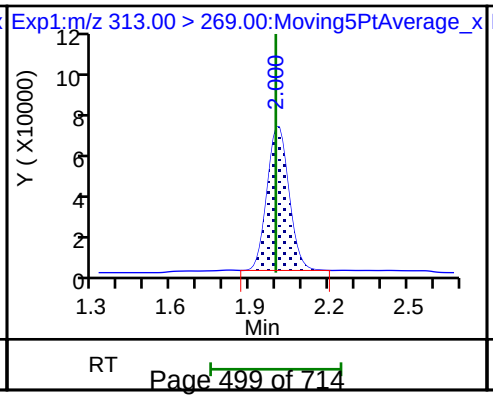
D 60 M2-4:2FTS



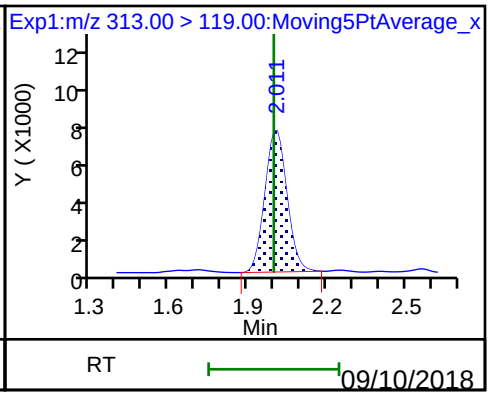
D 7 13C2 PFHxA



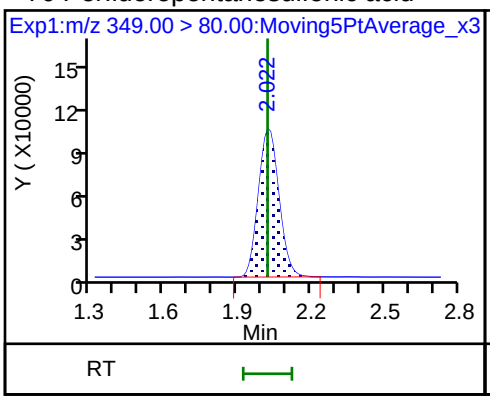
6 Perfluorohexanoic acid



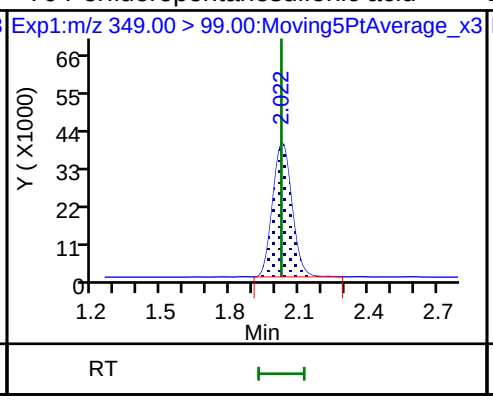
6 Perfluorohexanoic acid



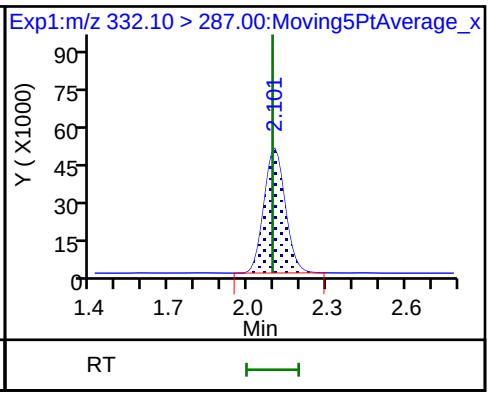
70 Perfluoropentanesulfonic acid



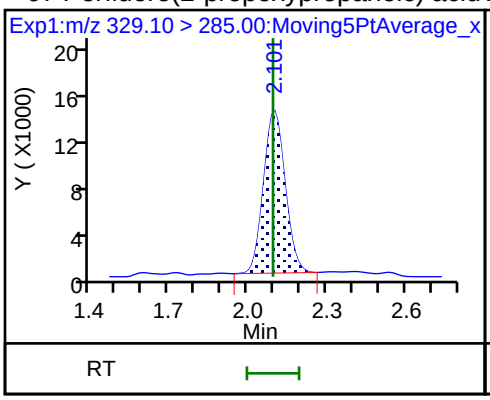
70 Perfluoropentanesulfonic acid



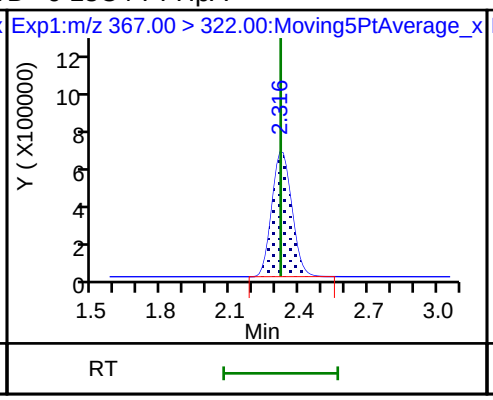
D 64 13C3 HFPO-DA



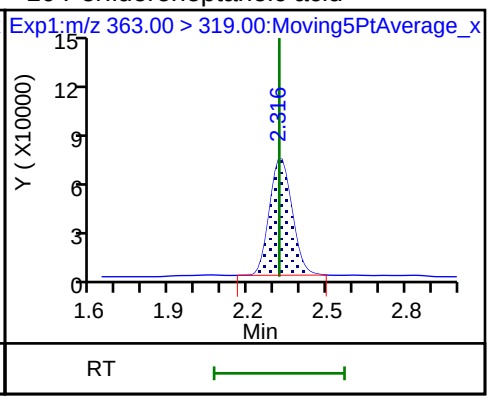
67 Perfluoro(2-propoxypropanoic) acid



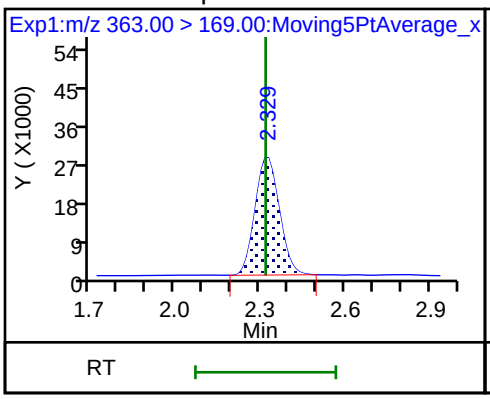
D 9 13C4-PFHpA



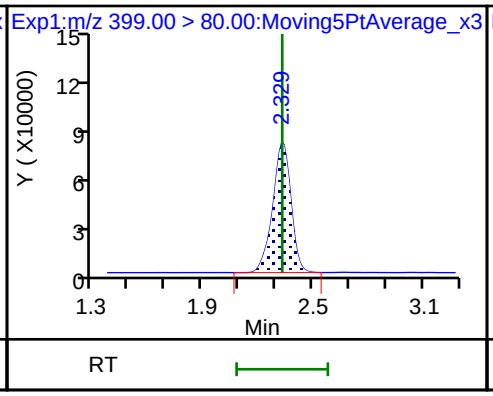
10 Perfluoroheptanoic acid



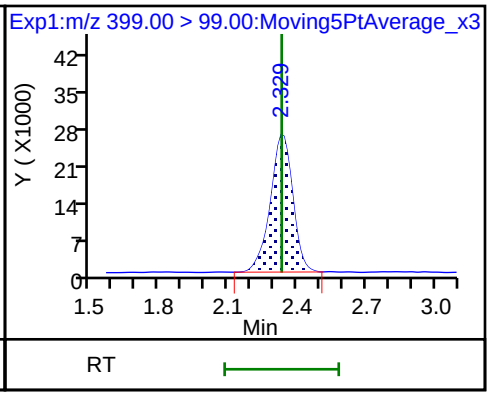
10 Perfluoroheptanoic acid



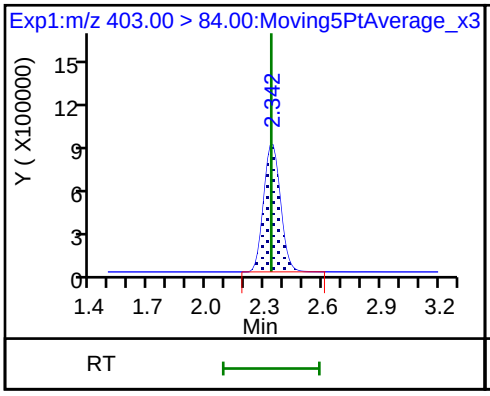
8 Perfluorohexanesulfonic acid



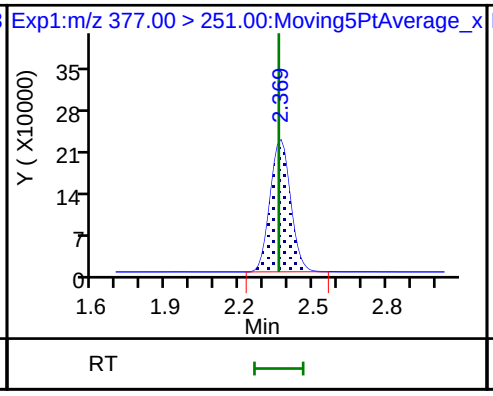
8 Perfluorohexanesulfonic acid



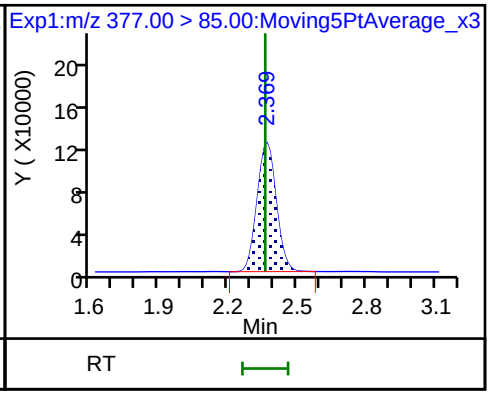
D 11 18O2 PFHxS



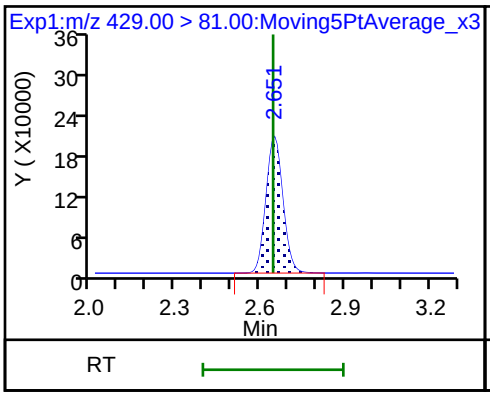
65 Adona



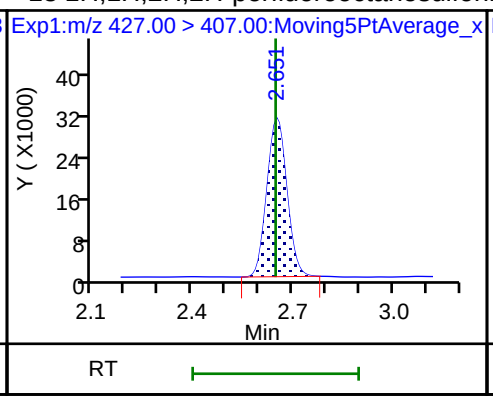
65 Adona



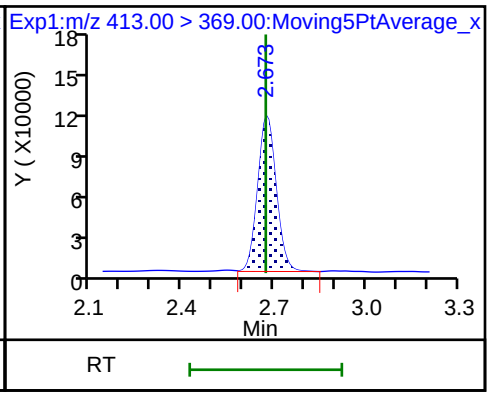
D 12 M2-6:2FTS



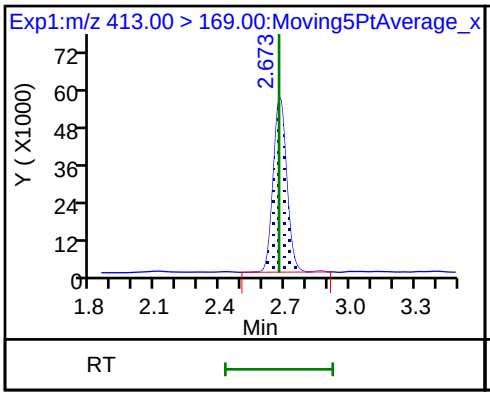
13 1H,1H,2H,2H-perfluorooctanesulfoni



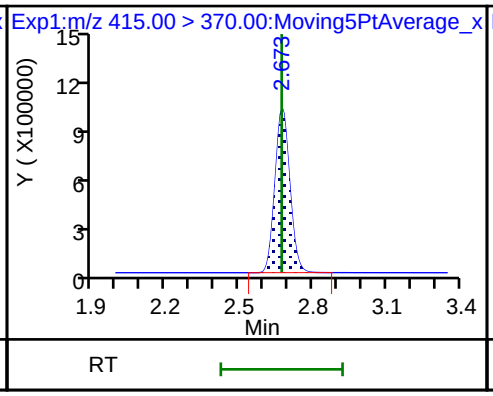
15 Perfluorooctanoic acid



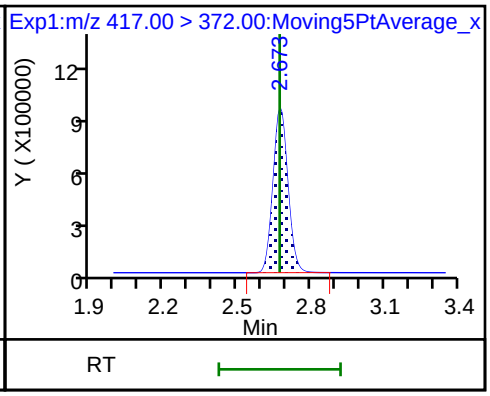
15 Perfluorooctanoic acid



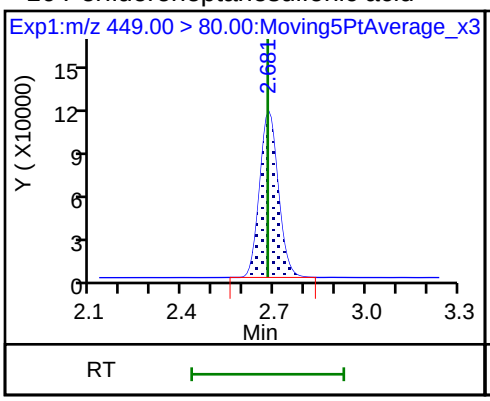
* 62 13C2-PFOA



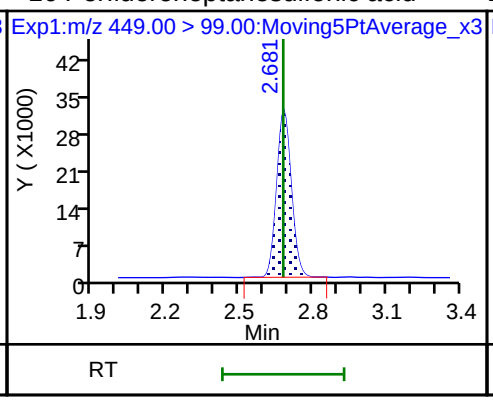
D 14 13C4 PFOA



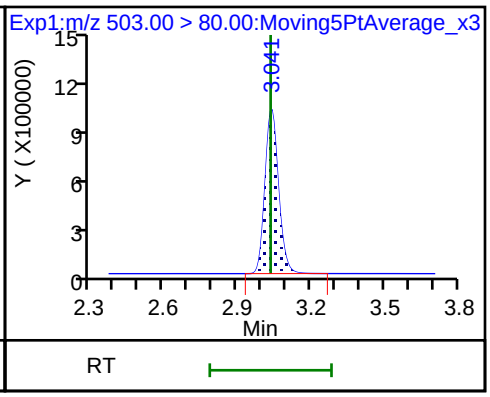
16 Perfluoroheptanesulfonic acid



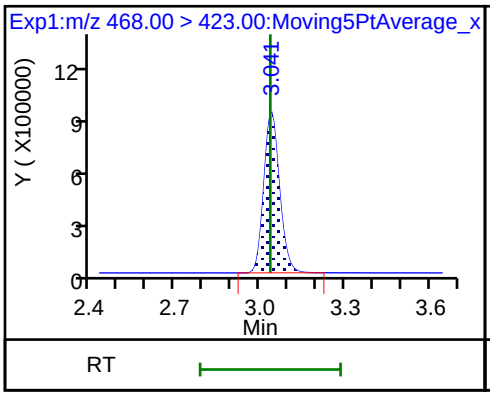
16 Perfluoroheptanesulfonic acid



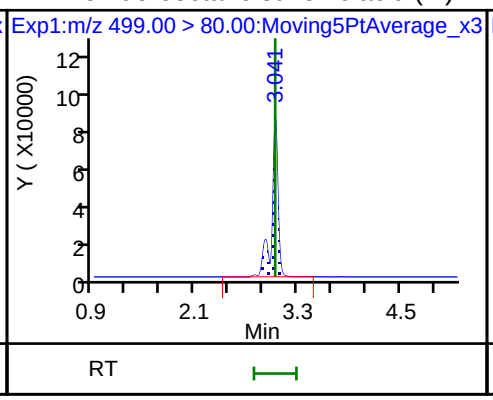
D 18 13C4 PFOS



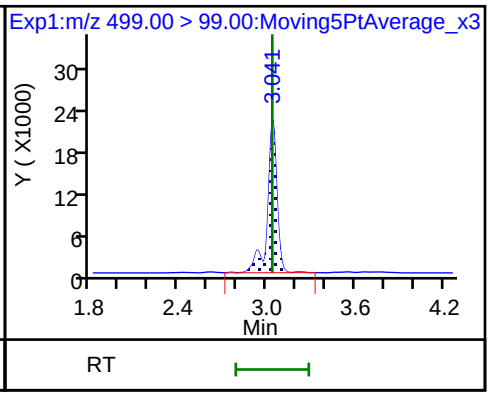
D 19 13C5 PFNA



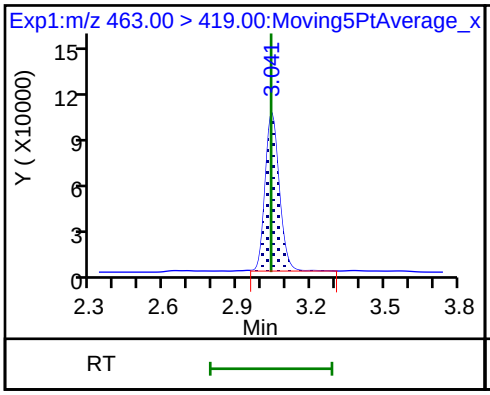
17 Perfluorooctane sulfonic acid (M)



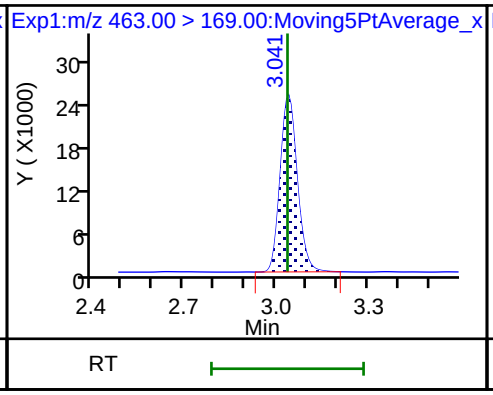
17 Perfluorooctane sulfonic acid



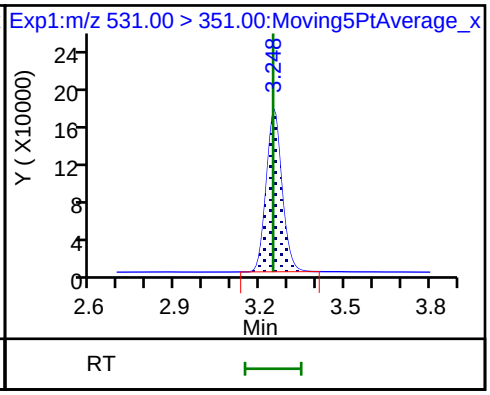
20 Perfluorononanoic acid



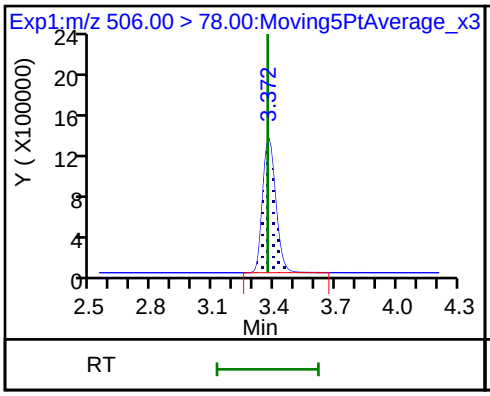
20 Perfluorononanoic acid



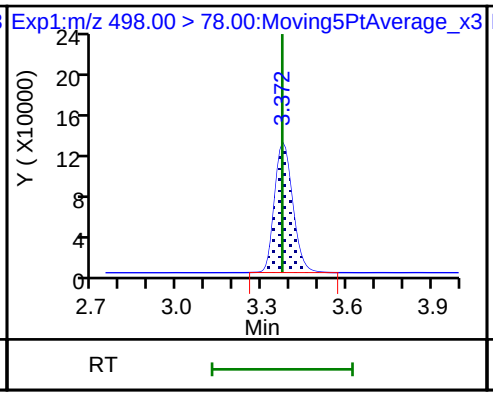
69 9-Chlorohexadecafluoro-3-oxanonane



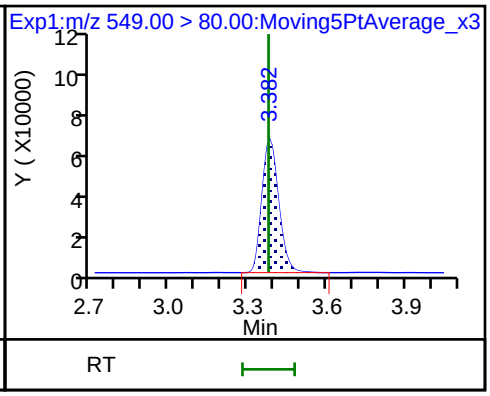
D 21 13C8 FOSA



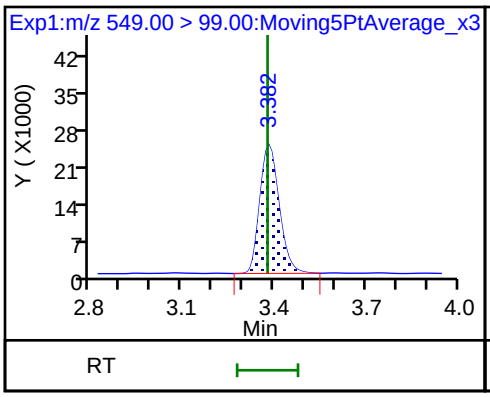
22 Perfluorooctane Sulfonamide



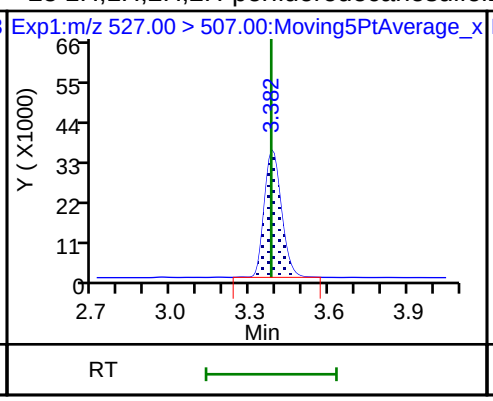
68 Perfluorononanesulfonic acid



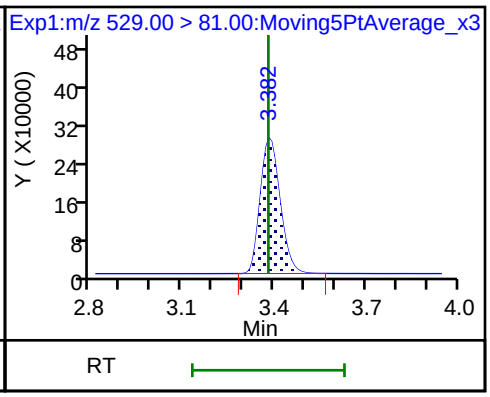
68 Perfluorononanesulfonic acid



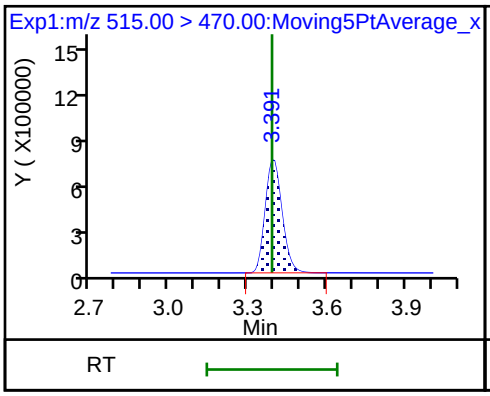
25 1H,1H,2H,2H-perfluorodecanesulfon



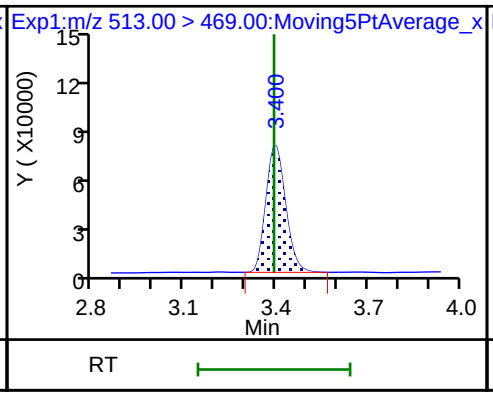
D 26 M2-8:2FTS



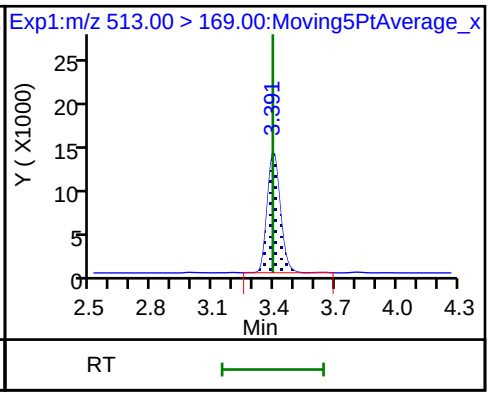
D 23 13C2 PFDA



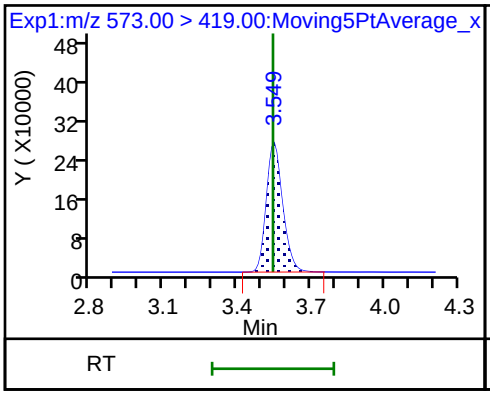
24 Perfluorodecanoic acid



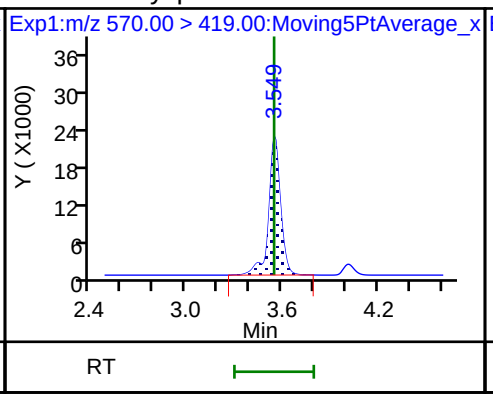
24 Perfluorodecanoic acid



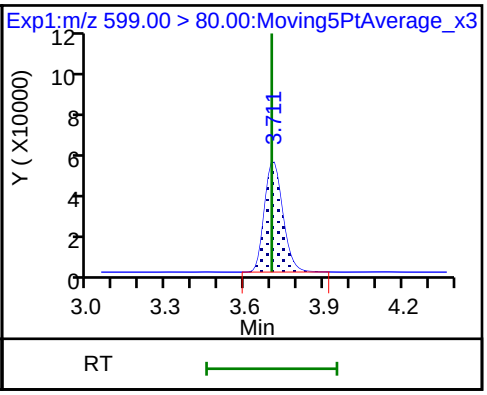
D 27 d3-NMeFOSAA



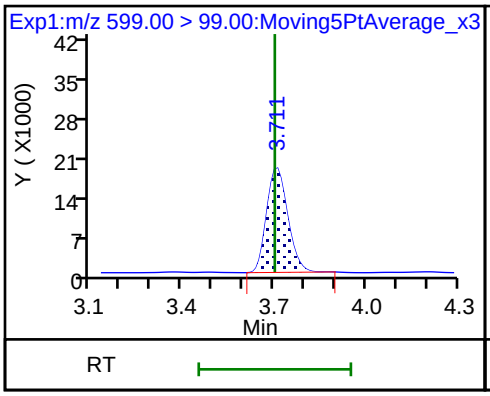
28 N-methyl perfluorooctane sulfonami



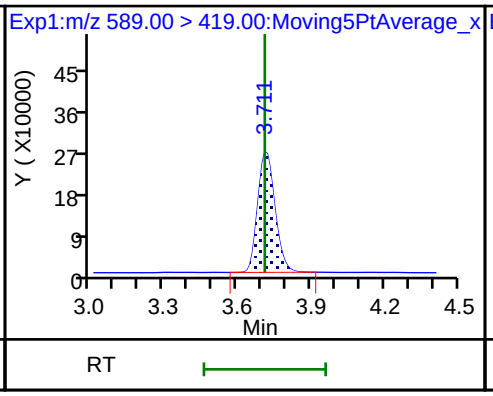
29 Perfluorodecane Sulfonic acid



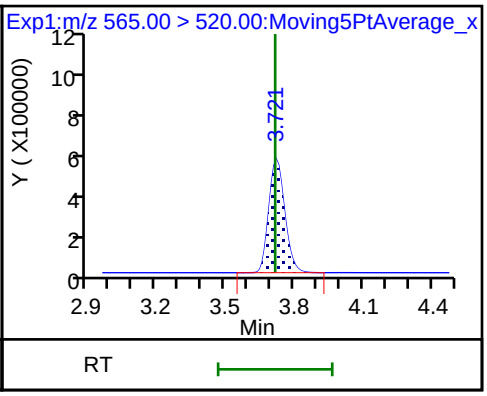
29 Perfluorodecane Sulfonic acid



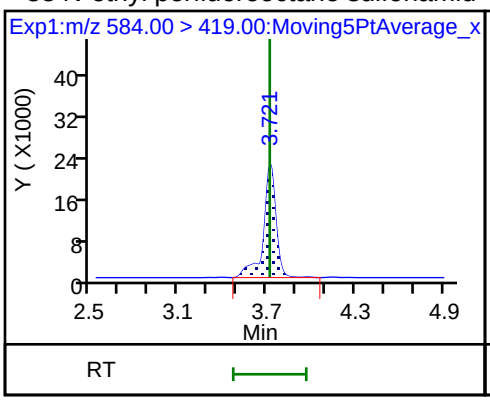
D 32 d5-NEtFOSAA



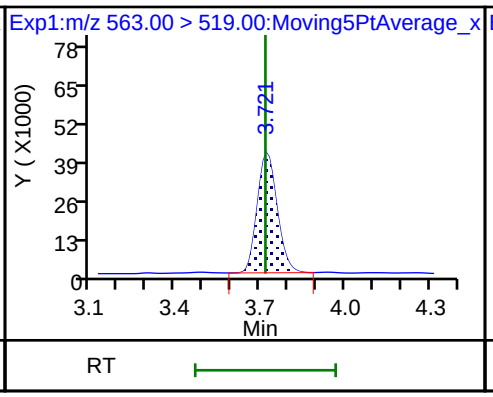
D 30 13C2 PFUnA



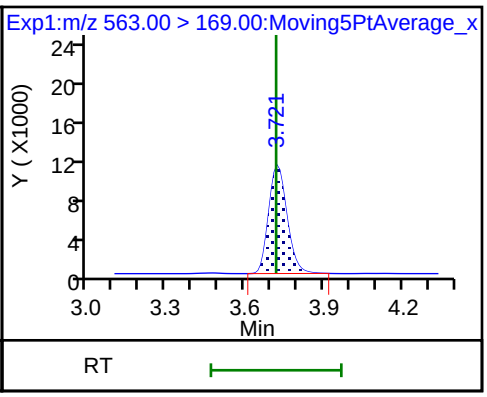
33 N-ethyl perfluorooctane sulfonamid



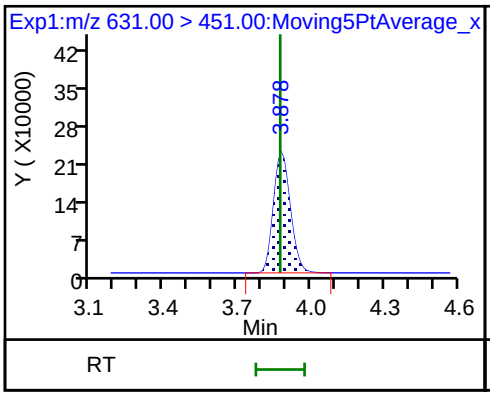
31 Perfluoroundecanoic acid



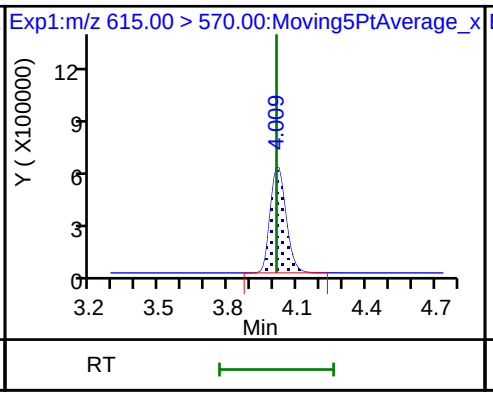
31 Perfluoroundecanoic acid



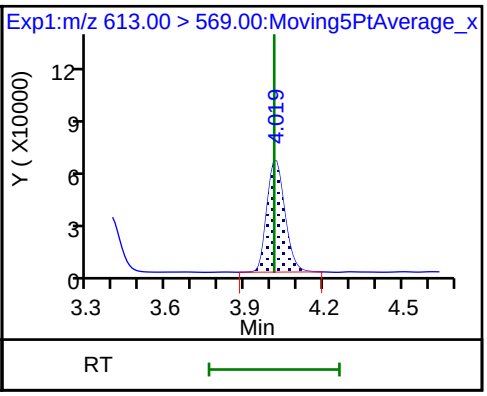
66 11-Chloroeicosafluoro-3-oxaundecan



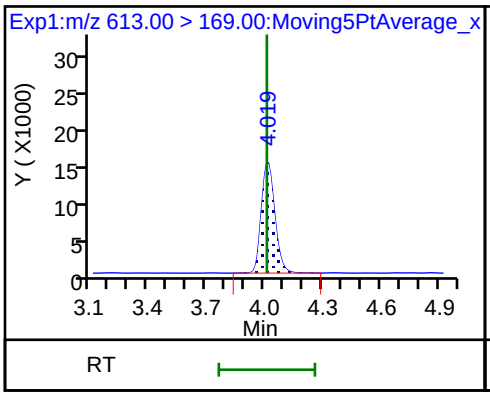
D 36 13C2 PFDoA



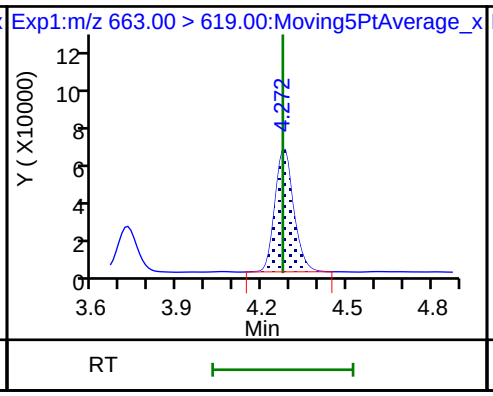
37 Perfluorododecanoic acid



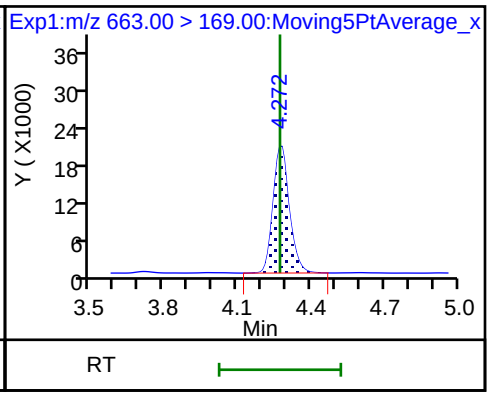
37 Perfluorododecanoic acid



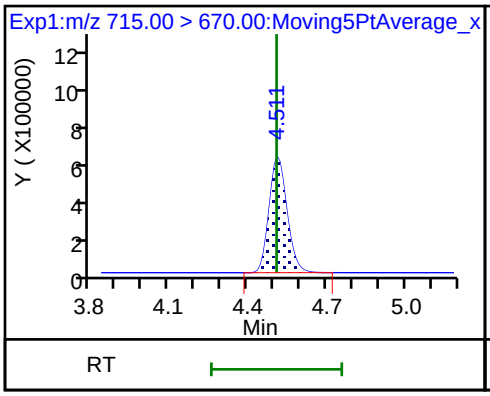
41 Perfluorotridecanoic acid



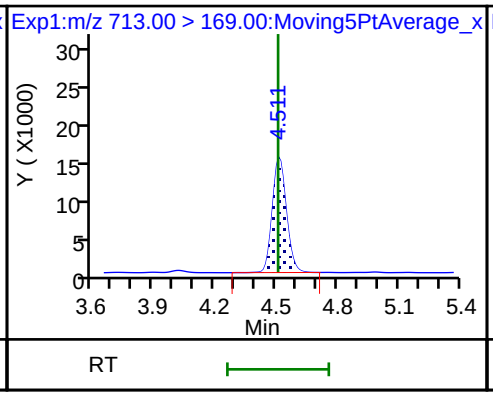
41 Perfluorotridecanoic acid



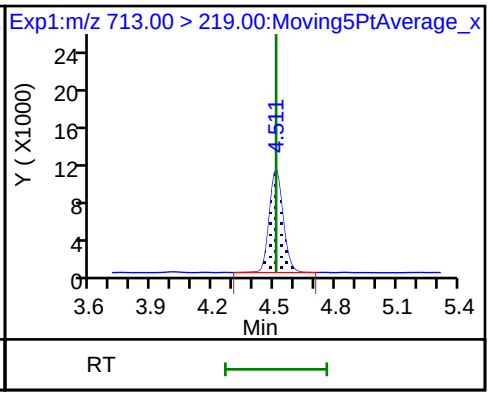
D 43 13C2-PFTeDA



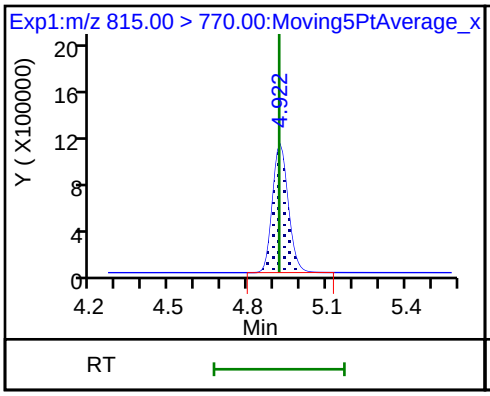
42 Perfluorotetradecanoic acid



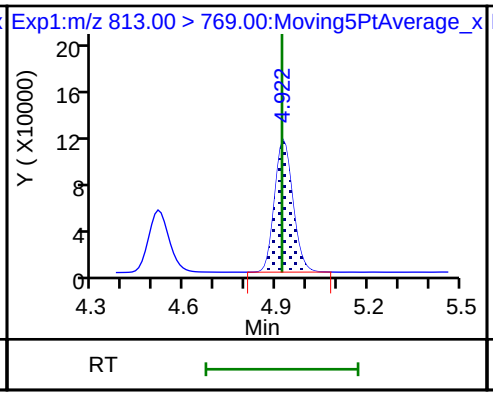
42 Perfluorotetradecanoic acid



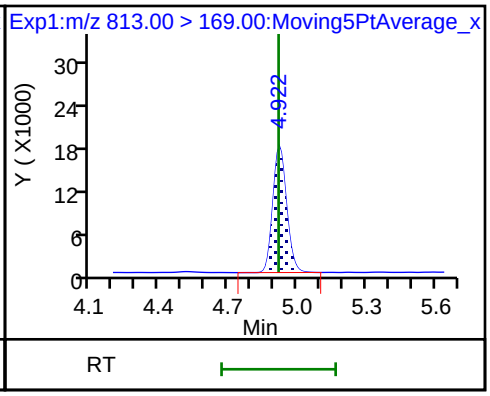
D 44 13C2-PFHxDA



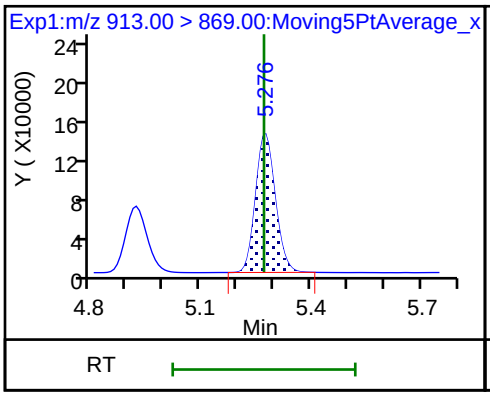
45 Perfluorohexadecanoic acid



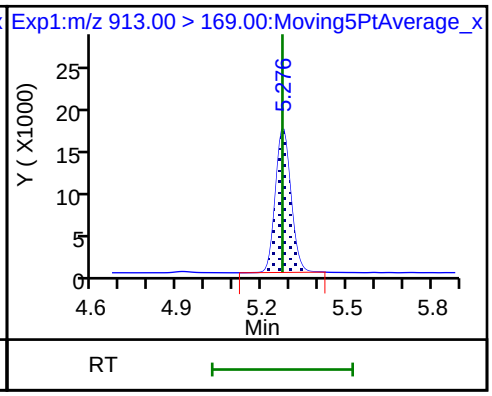
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

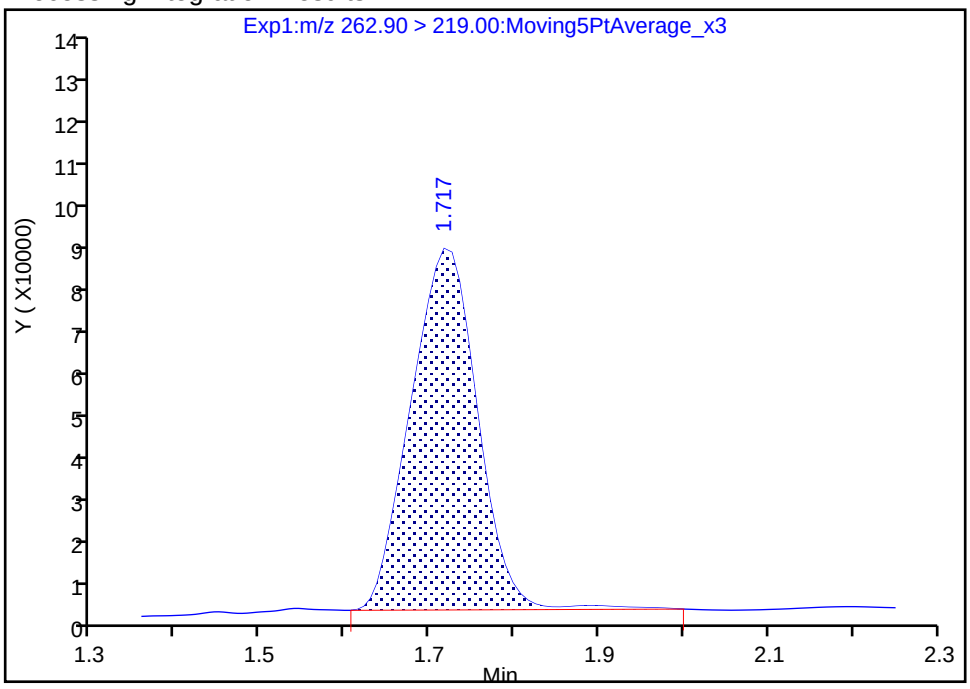
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

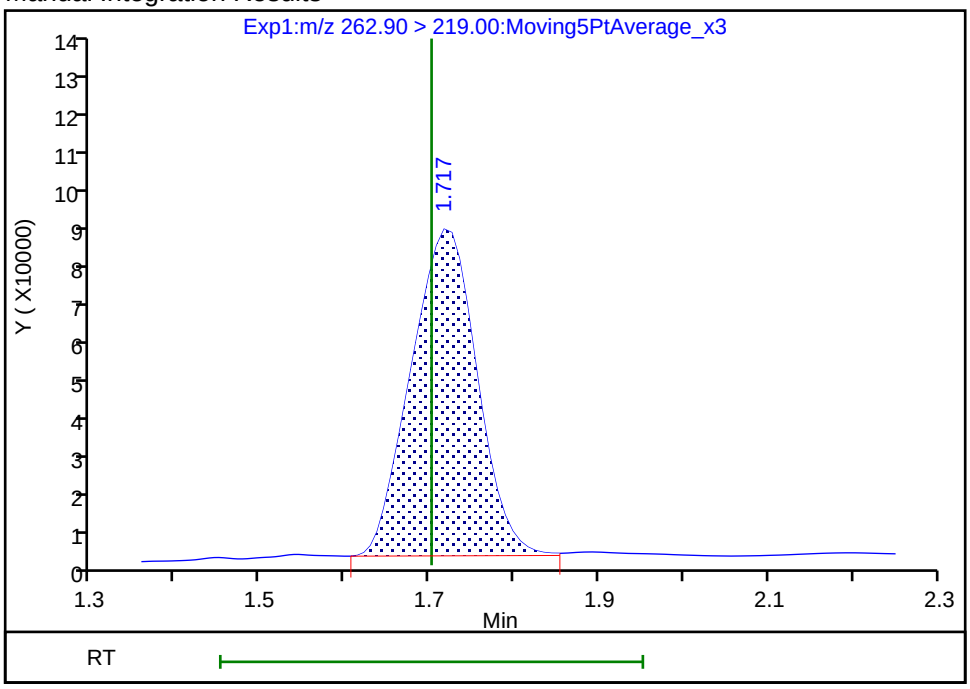
Processing Integration Results

RT: 1.72
Area: 461795
Amount: 0.245377
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 457354
Amount: 0.243345
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:15:17
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

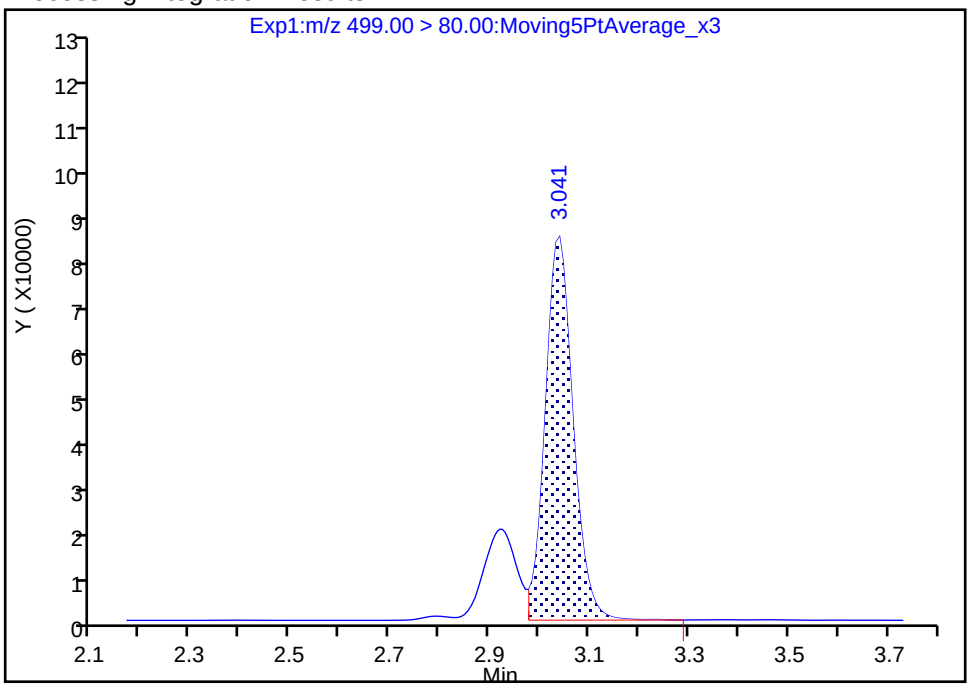
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_004.d
Injection Date: 11-Jul-2018 15:07:23 Instrument ID: A8_N
Lims ID: IC L3 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 12 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

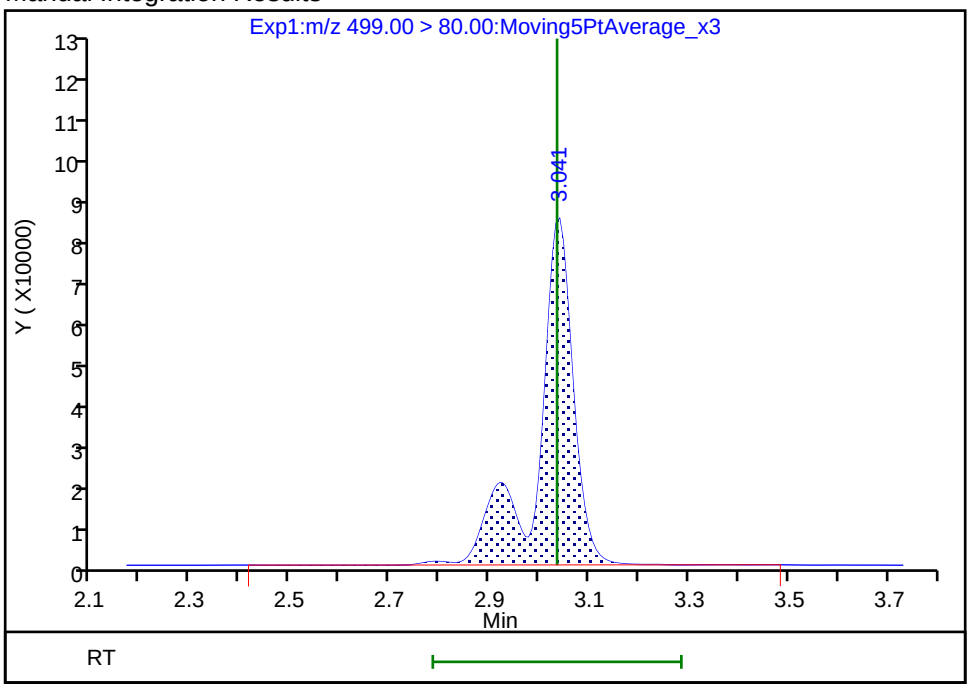
Processing Integration Results

RT: 3.04
Area: 311512
Amount: 0.188367
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 401226
Amount: 0.227144
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:15:30
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d
Lims ID: IC L4 Full
Client ID:
Sample Type: ICIS Calib Level: 4
Inject. Date: 11-Jul-2018 15:15:12 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L4-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:36 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:24:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.430	1.431	-0.001	0.536	5641372	2.39		95.8	40771	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	2185459	0.9827		98.3	851	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.711	1.702	0.009	1.000	1776986	0.9425		94.3	671	
D 3 13C5-PFPeA										
267.90 > 223.00	1.711	1.702	0.009	0.641	3885306	2.37		94.9	40286	
D 47 13C3-PFBS										
301.90 > 83.00	1.747	1.748	-0.001	0.655	93442	2.27		97.7	588	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.751	0.005	1.005	2692471	0.8758		99.1	30936	
298.90 > 99.00	1.756	1.751	0.005	1.005	1106046		2.43(1.25-3.74)	99.1	13599	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.959	1.962	-0.003	1.122	483517	0.9255		99.1	21926	
D 60 M2-4:2FTS										
329.00 > 81.00	1.959	1.962	-0.003	0.735	514423	2.33		99.6	6719	
D 7 13C2 PFHxA										
315.00 > 270.00	1.992	1.996	-0.004	0.747	4419532	2.50		100	65585	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.998	0.005	1.006	1767805	0.9715		97.2	3644	
313.00 > 119.00	1.992	1.998	-0.006	1.000	160752		11.00(5.03-15.10)	97.2	3583	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.014	2.022	-0.008	1.153	2723317	0.9710		104	43344	
349.00 > 99.00	2.014	2.022	-0.008	1.153	946475		2.88(1.36-4.07)	104	15143	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.785	319484	2.54		102	9570	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	1.000	316075	0.9319		93.2	2022	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.870	4071620	2.50		100	45788	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	1789760	0.9501		95.0	3577	
363.00 > 169.00	2.319	2.319	0.0	1.000	672034		2.66(1.13-3.40)	95.0	5658	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	2243830	0.8671		95.3	14079	
399.00 > 99.00	2.332	2.332	0.0	1.000	719470		3.12(1.50-4.49)	95.3	5193	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.874	5331177	2.31		97.7	64328	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.778	5276511	1.02		109	43654	
377.00 > 85.00	2.358	2.360	-0.002	0.778	3115019		1.69(0.84-2.53)	109	15440	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.991	819911	2.35		98.9	15077	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.648	-0.004	1.000	508387	0.9413		99.3	9201	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.672	-0.005	1.000	1889955	0.9213		92.0	1333	
413.00 > 169.00	2.667	2.672	-0.005	1.000	984662		1.92(0.84-2.52)	92.0	4771	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.672	-0.005		4343809	2.50			41821	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.672	-0.005	1.000	4164105	2.51		100	36459	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.882	2108438	1.00		105	20636	
449.00 > 99.00	2.675	2.678	-0.003	0.882	541631		3.89(1.94-5.82)	105	8815	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.034	-0.002	1.137	3832872	2.26		94.7	26005	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.035	-0.003	1.137	3677166	2.48		99.1	48144	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.035	-0.003	1.000	1695511	0.9330		101	22959	
499.00 > 99.00	3.032	3.035	-0.003	1.000	381272		4.45(2.31-6.93)	101	5451	
20 Perfluorononanoic acid										
463.00 > 419.00	3.032	3.036	-0.004	1.000	1601728	0.9816		98.2	3653	
463.00 > 169.00	3.032	3.036	-0.004	1.000	393341		4.07(1.90-5.69)	98.2	12806	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.240	3.245	-0.005	1.069	2898434	0.9845		106	26398	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.367	-0.007	1.260	6072674	2.49		99.5	32206	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.371	-0.001	1.003	2466657	1.03		103	23348	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.377	-0.007	1.111	1198001	0.9637		100	24931	
549.00 > 99.00	3.370	3.377	-0.007	1.111	448683		2.67(1.33-3.97)	100	5683	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.380	-0.001	1.000	616956	0.9227		96.3	9759	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.380	-0.001	1.267	1241456	2.43		102	20973	
D 23 13C2 PFDA										
515.00 > 470.00	3.388	3.391	-0.003	1.270	3225992	2.47		99.0	36283	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.388	3.392	-0.004	1.000	1372481	1.01		101	7780	
513.00 > 169.00	3.388	3.392	-0.004	1.000	234993		5.84(2.36-7.09)	101	7483	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.538	3.544	-0.006	1.326	1320092	2.47		98.8	18113	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.547	3.548	-0.001	1.003	521077	1.00		100	4163	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.701	-0.004	1.219	1104012	1.03		106	33210	
599.00 > 99.00	3.697	3.701	-0.004	1.219	381155		2.90(1.39-4.16)	106	11450	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.710	-0.002	1.390	1412562	2.58		103	3578	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.716	-0.008	1.390	2739039	2.52		101	37242	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.718	-0.010	1.000	470221	0.9414		94.1	11298	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.718	-0.010	1.000	824114	0.9179		91.8	4935	
563.00 > 169.00	3.708	3.718	-0.010	1.000	230560		3.57(2.12-6.36)	91.8	9451	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.865	3.874	-0.009	1.275	4328485	1.02		108	56110	
D 36 13C2 PFDoA										
615.00 > 570.00	4.009	4.009	0.0	1.503	2741167	2.43		97.1	17529	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.009	4.011	-0.002	1.000	1222974	1.02		102	655	
613.00 > 169.00	4.009	4.011	-0.002	1.000	295938		4.13(2.13-6.40)	102	6196	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.272	4.273	-0.001	1.066	1185888	1.01		101	495	
663.00 > 169.00	4.272	4.273	-0.001	1.066	360583		3.29(1.25-3.76)	101	5237	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.688	2848985	2.43		97.3	14593	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	292793	0.9875		98.8	5119	
713.00 > 219.00	4.501	4.508	-0.007	1.000	204434		1.43(0.71-2.13)	98.8	4812	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.913	4.918	-0.005	1.842	4668246	2.50		100	12029	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.913	4.918	-0.005	1.000	1859123	1.03		103	407	
813.00 > 169.00	4.913	4.918	-0.005	1.000	288685		6.44(2.86-8.58)	103	2770	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.269	5.271	-0.002	1.072	2109156	0.9883		98.8	376	
913.00 > 169.00	5.262	5.271	-0.009	1.071	260420		8.10(3.83-11.48)	98.8	3637	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d

Injection Date: 11-Jul-2018 15:15:12 Instrument ID: A8_N

Lims ID: IC L4 Full

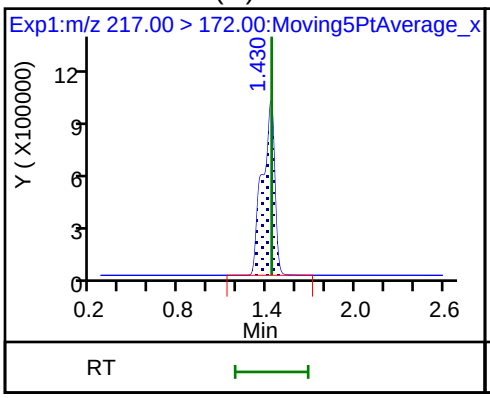
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5

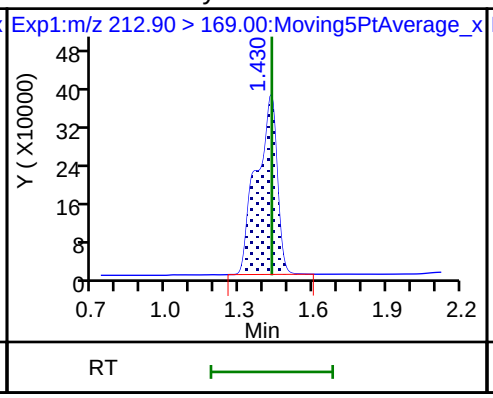
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

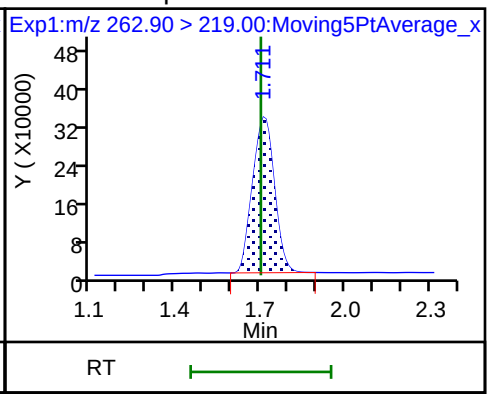
D 1 13C4 PFBA (M)



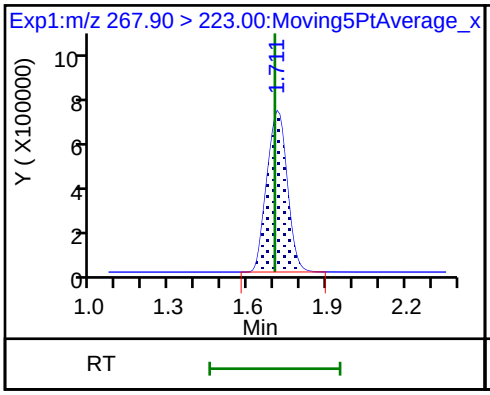
2 Perfluorobutyric acid



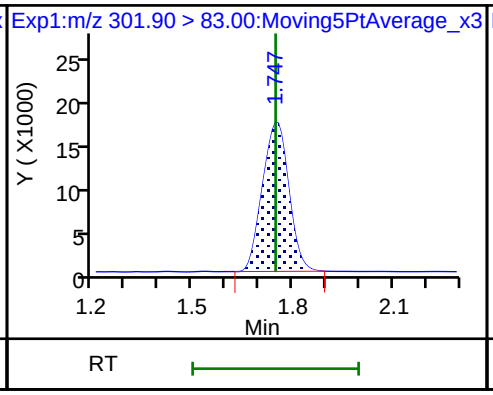
4 Perfluoropentanoic acid



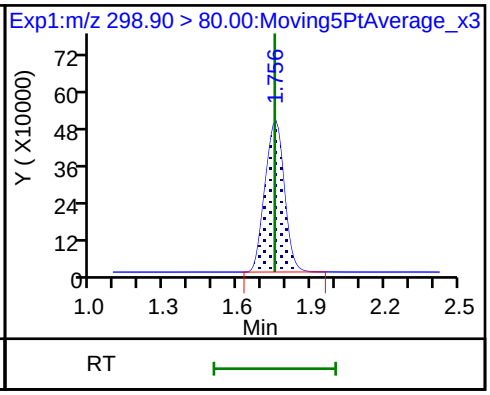
D 3 13C5-PFPeA



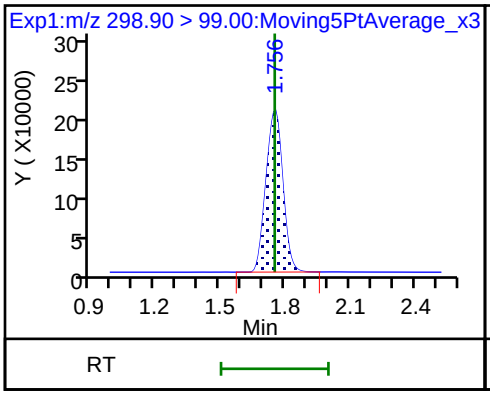
D 47 13C3-PFBS



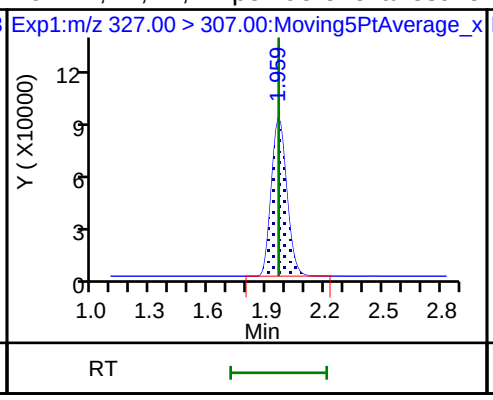
5 Perfluorobutanesulfonic acid



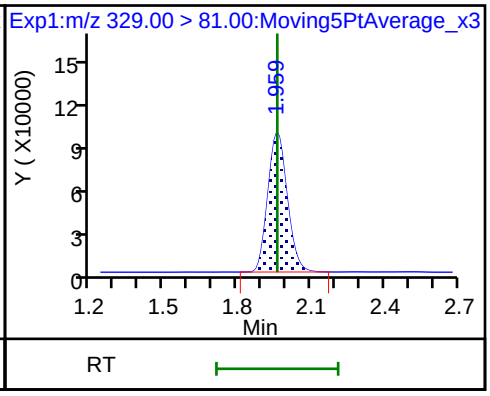
5 Perfluorobutanesulfonic acid



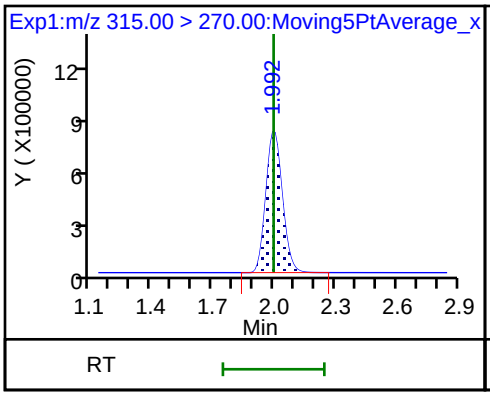
61 1H,1H,2H,2H-perfluorohexanesulfon



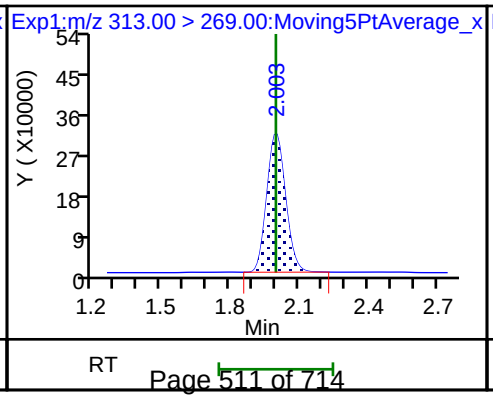
D 60 M2-4:2FTS



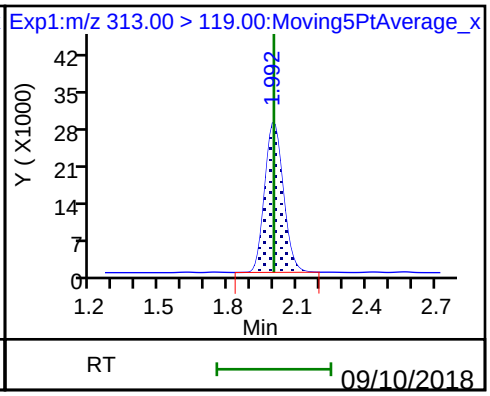
D 7 13C2 PFHxA



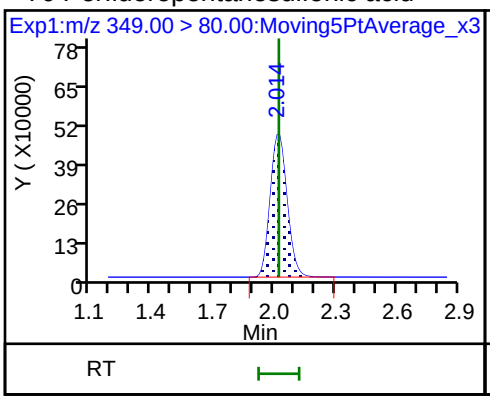
6 Perfluorohexanoic acid



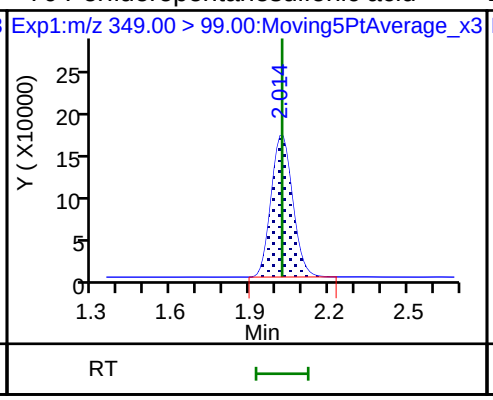
6 Perfluorohexanoic acid



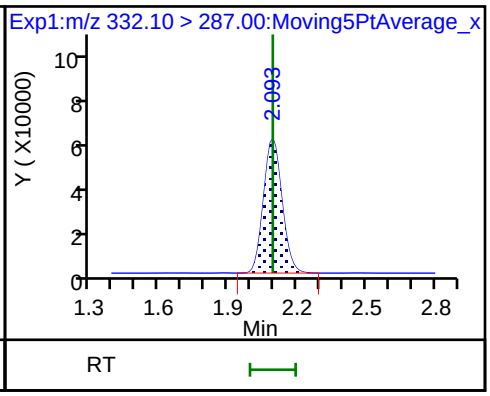
70 Perfluoropentanesulfonic acid



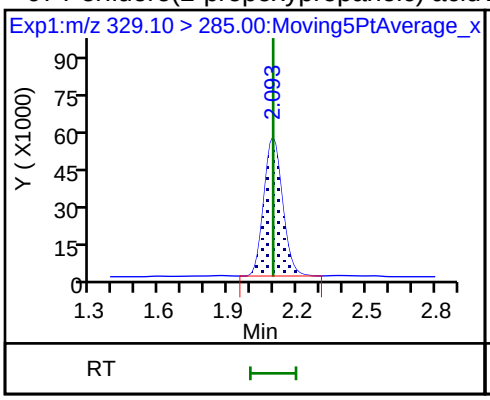
70 Perfluoropentanesulfonic acid



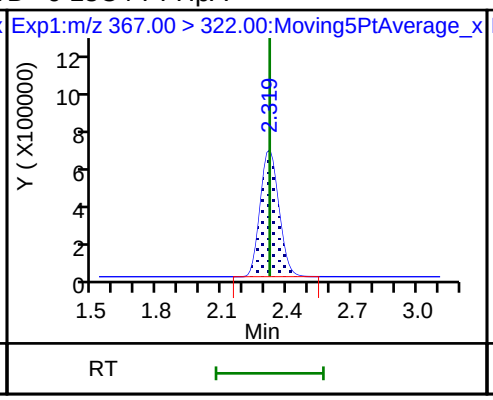
D 64 13C3 HFPO-DA



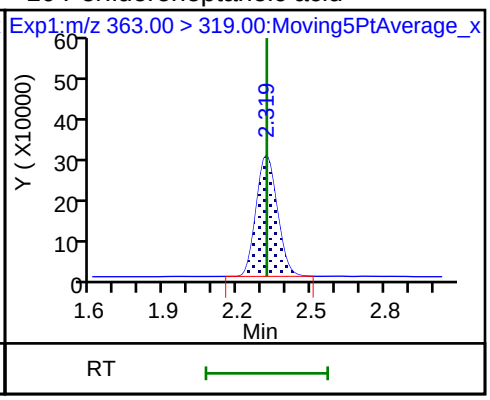
67 Perfluoro(2-propoxypropanoic) acid



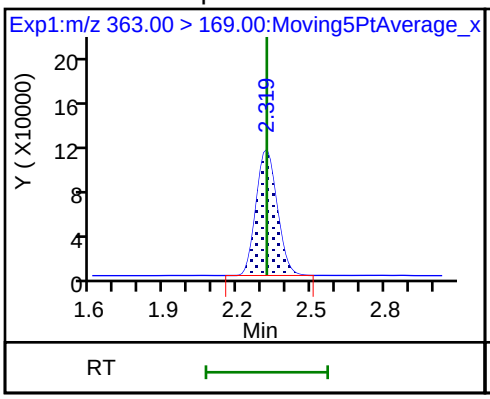
D 9 13C4-PFHpA



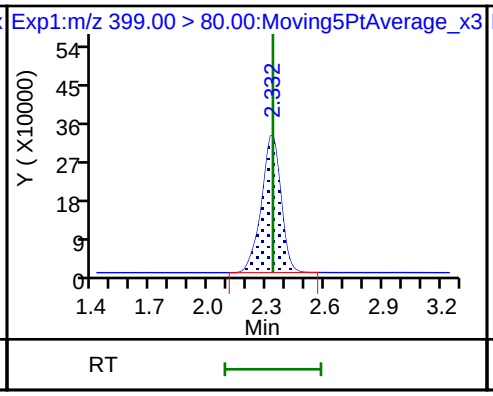
10 Perfluoroheptanoic acid



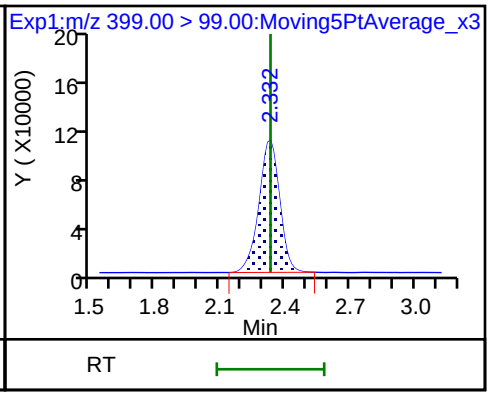
10 Perfluoroheptanoic acid



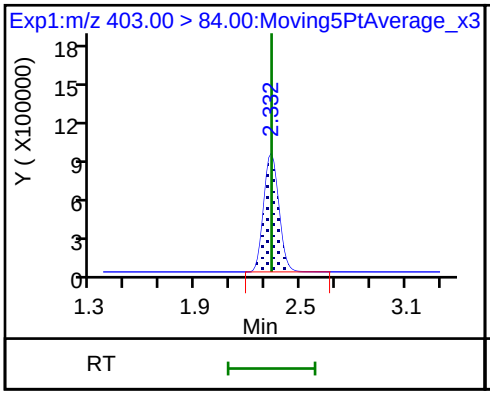
8 Perfluorohexanesulfonic acid



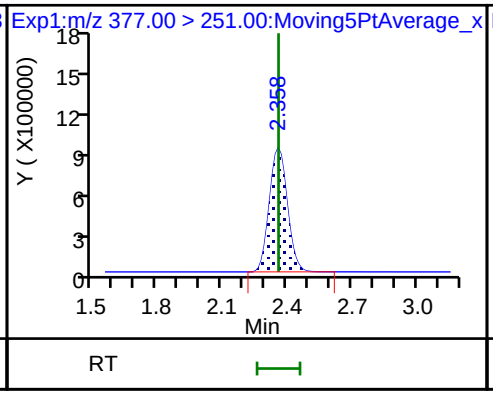
8 Perfluorohexanesulfonic acid



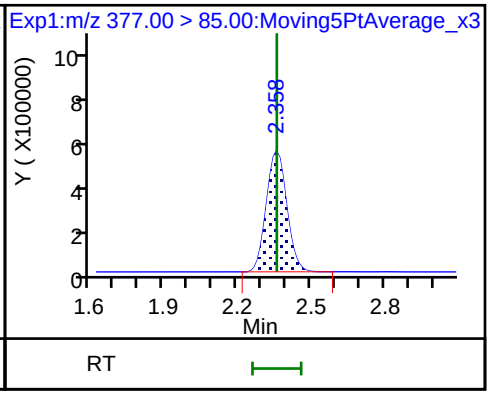
D 11 18O2 PFHxS



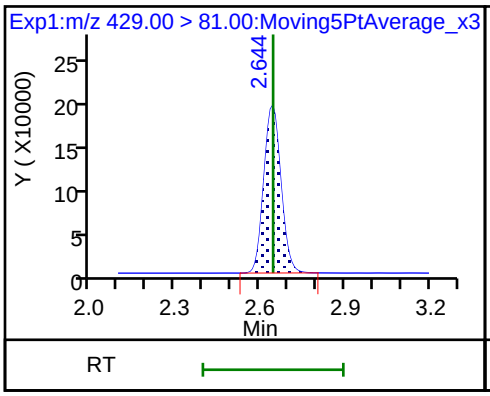
65 Adona



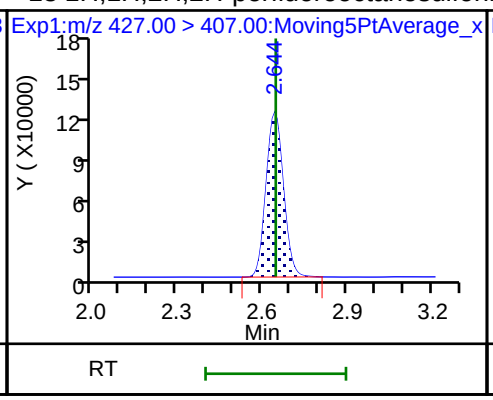
65 Adona



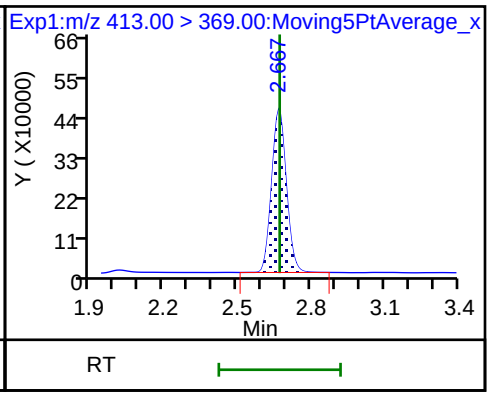
D 12 M2-6:2FTS



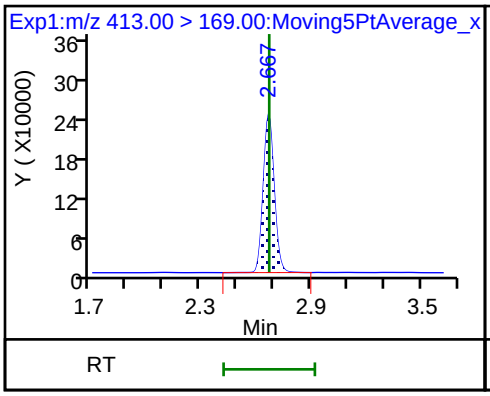
13 1H,1H,2H,2H-perfluorooctanesulfoni



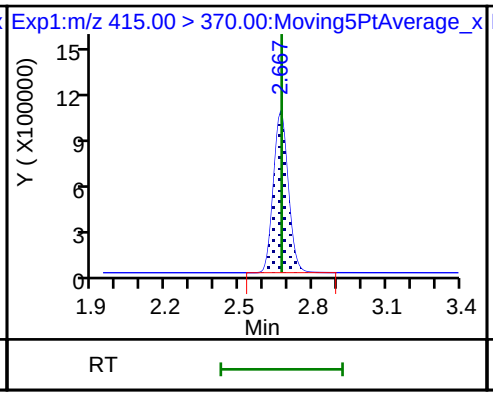
15 Perfluorooctanoic acid



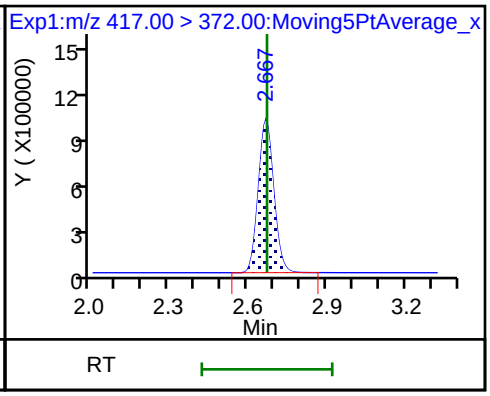
15 Perfluorooctanoic acid



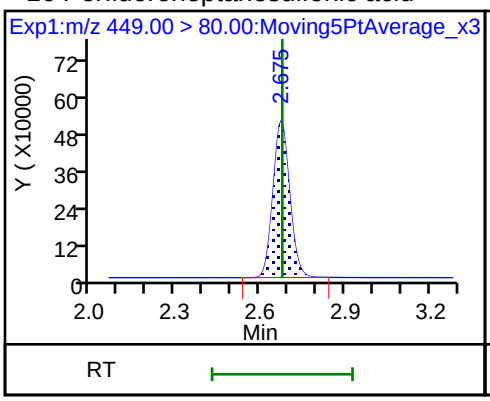
* 62 13C2-PFOA



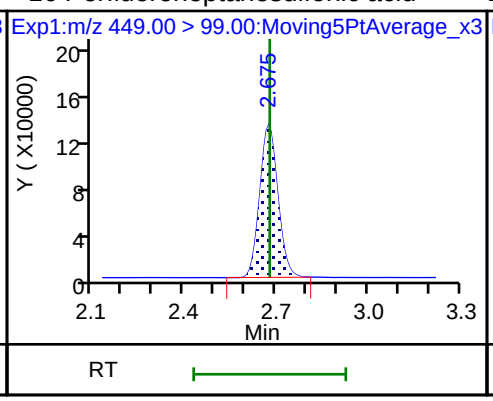
D 14 13C4 PFOA



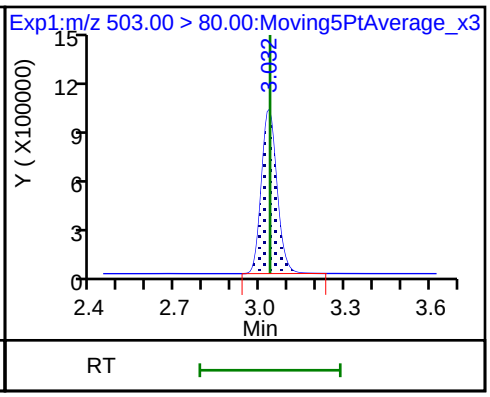
16 Perfluoroheptanesulfonic acid



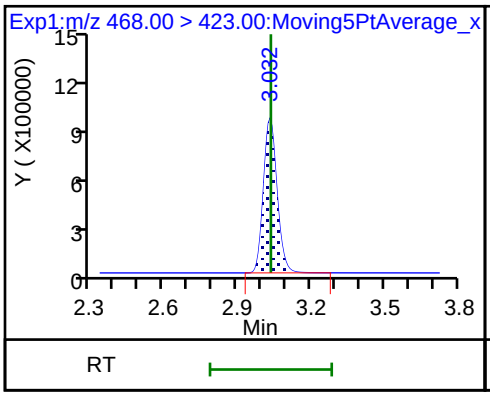
16 Perfluoroheptanesulfonic acid



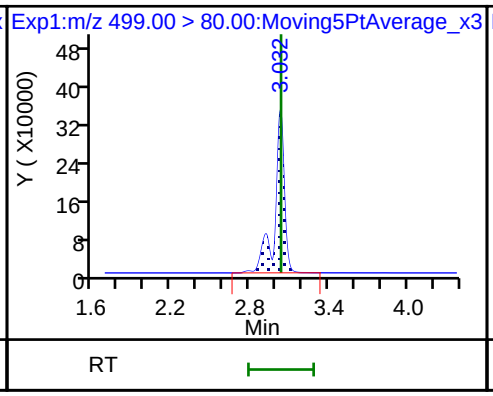
D 18 13C4 PFOS



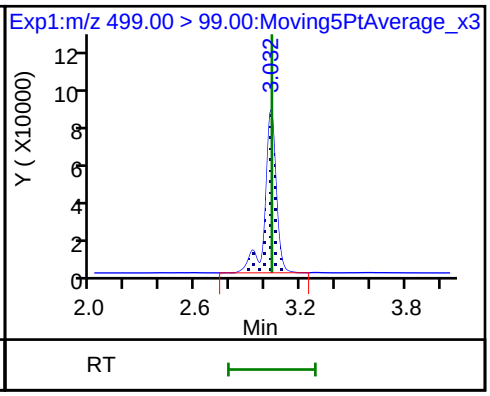
D 19 13C5 PFNA



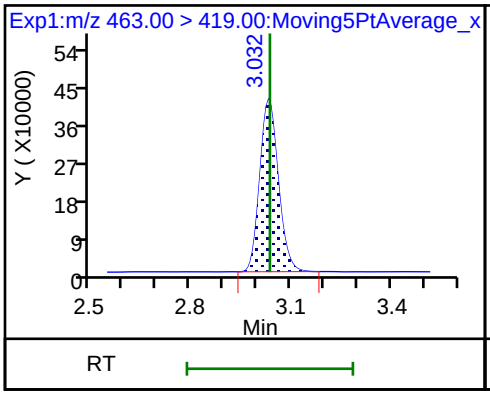
17 Perfluorooctane sulfonic acid



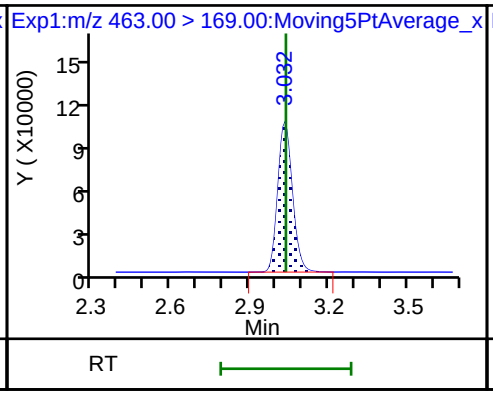
17 Perfluorooctane sulfonic acid



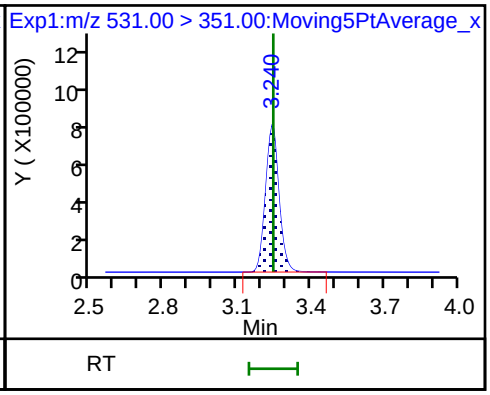
20 Perfluorononanoic acid



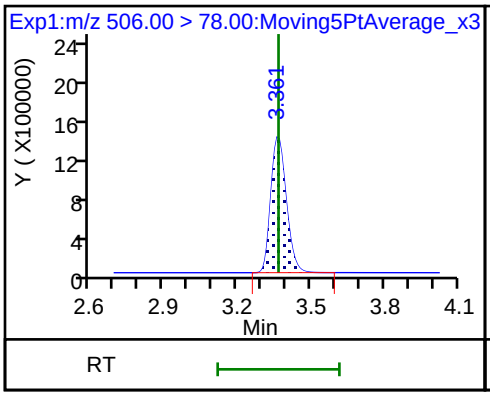
20 Perfluorononanoic acid



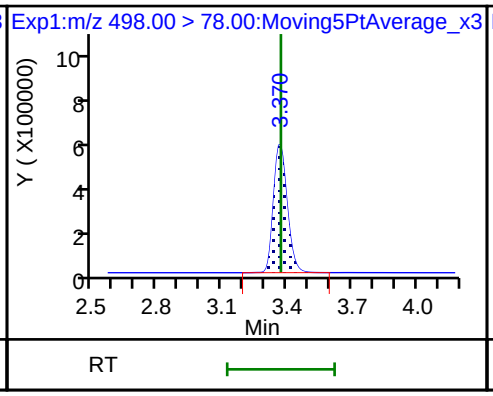
69 9-Chlorohexadecafluoro-3-oxanonane



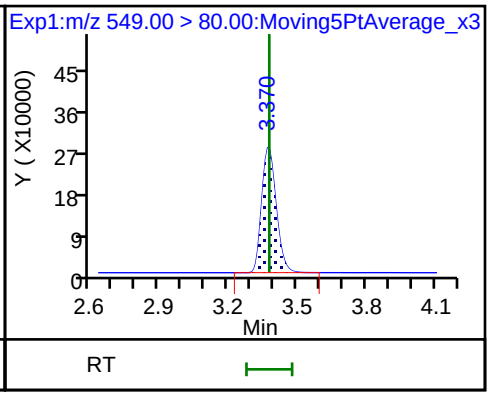
D 21 13C8 FOSA



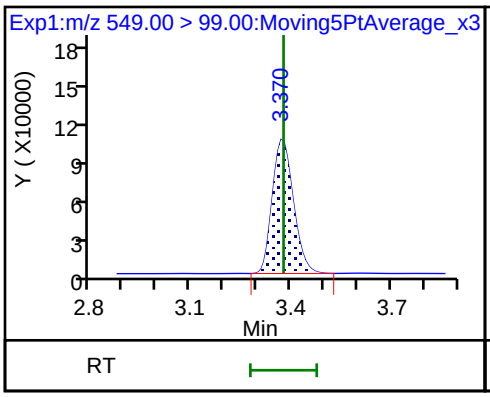
22 Perfluorooctane Sulfonamide



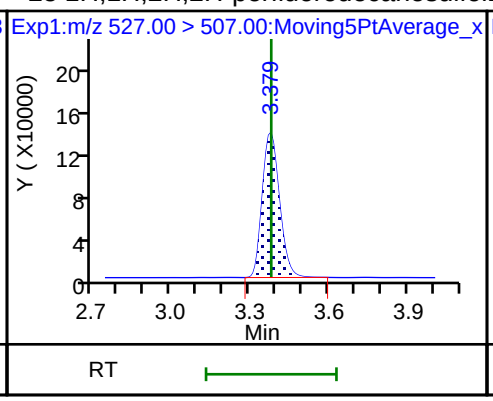
68 Perfluorononanesulfonic acid



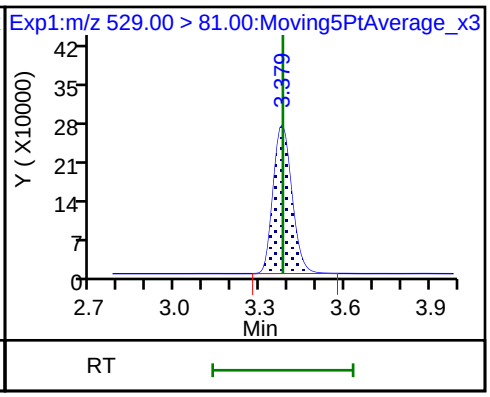
68 Perfluorononanesulfonic acid



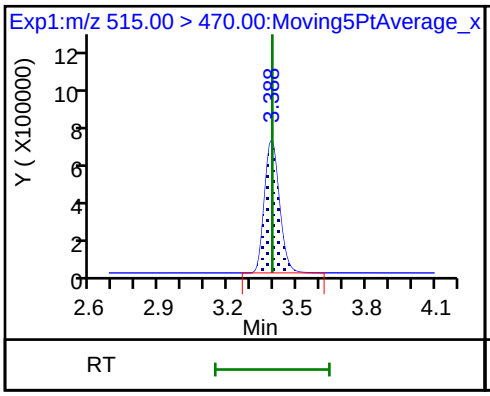
25 1H,1H,2H,2H-perfluorodecanesulfon



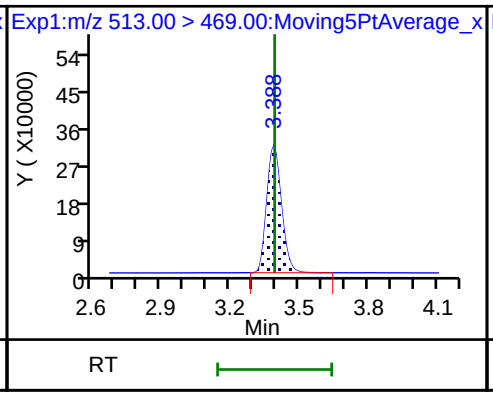
D 26 M2-8:2FTS



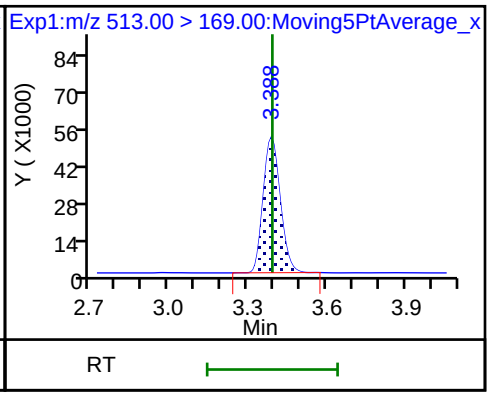
D 23 13C2 PFDA



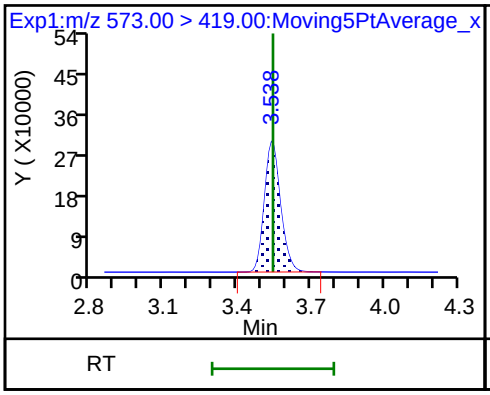
24 Perfluorodecanoic acid



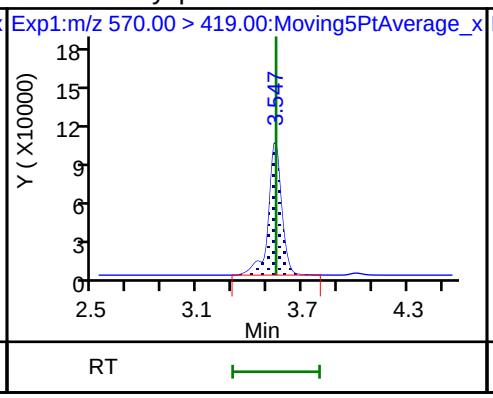
24 Perfluorodecanoic acid



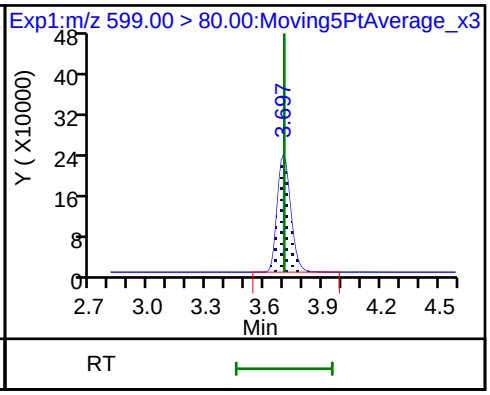
D 27 d3-NMeFOSAA



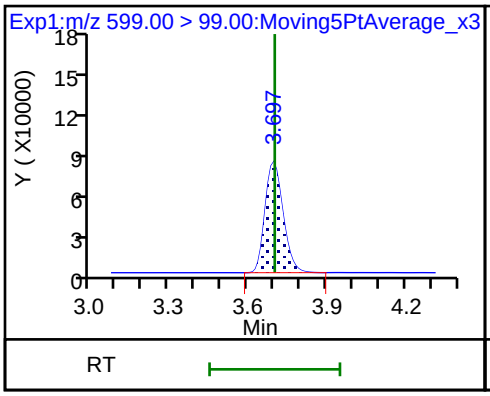
28 N-methyl perfluorooctane sulfonami



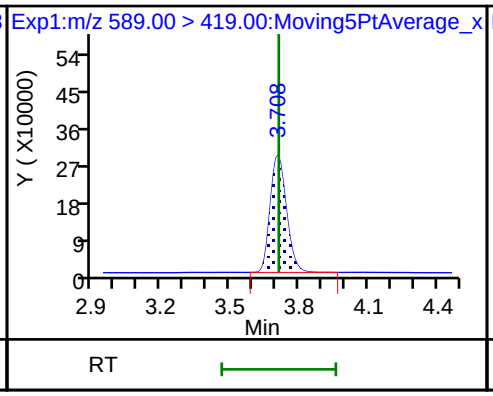
29 Perfluorodecane Sulfonic acid



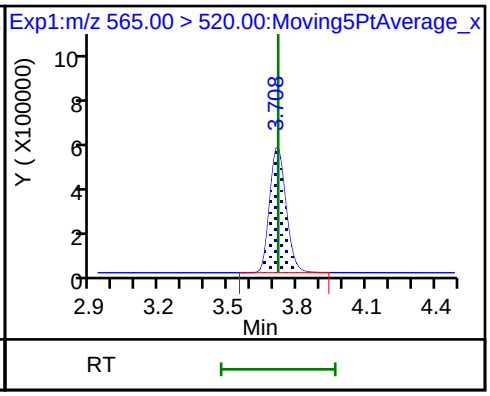
29 Perfluorodecane Sulfonic acid



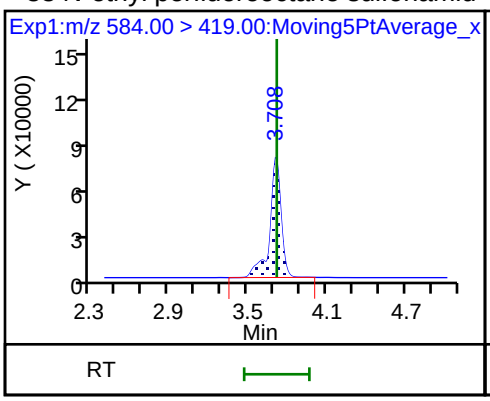
D 32 d5-NEtFOSAA



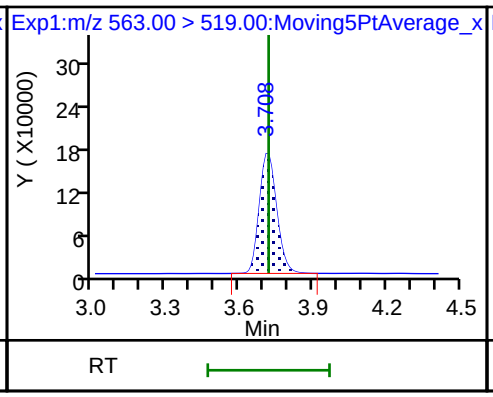
D 30 13C2 PFUnA



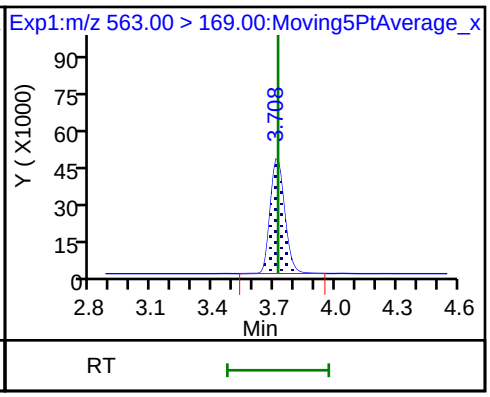
33 N-ethyl perfluorooctane sulfonamid



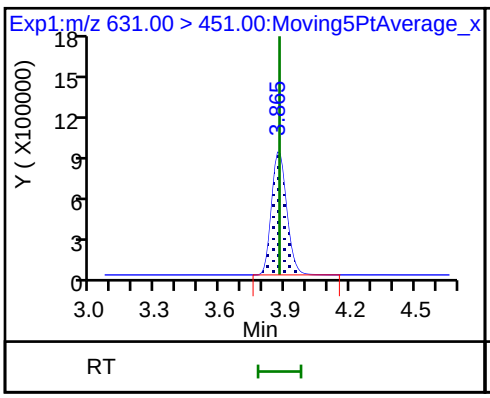
31 Perfluoroundecanoic acid



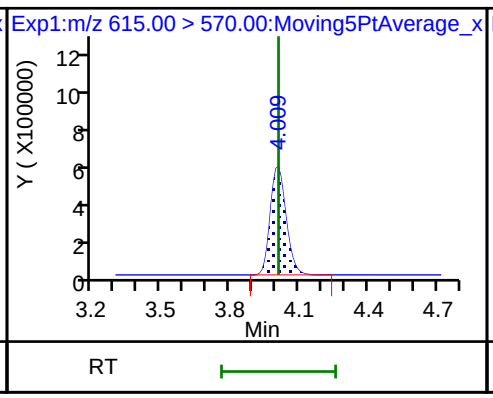
31 Perfluoroundecanoic acid



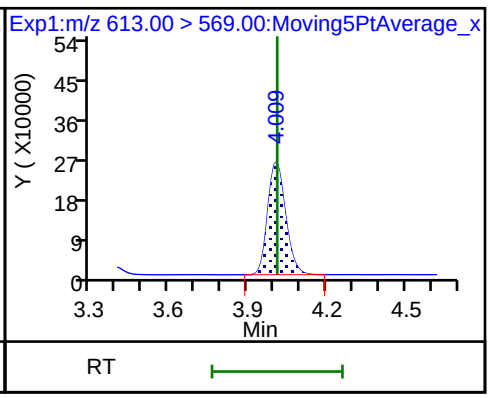
66 11-Chloroeicosafluoro-3-oxaundecan



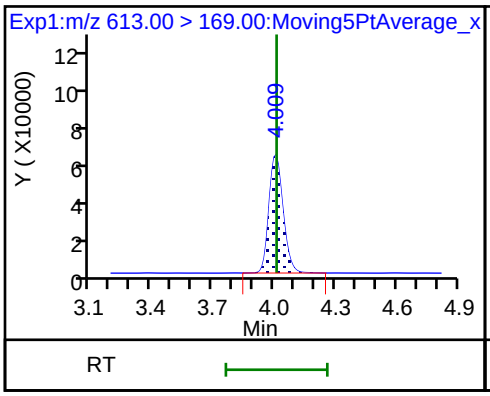
D 36 13C2 PFDoA



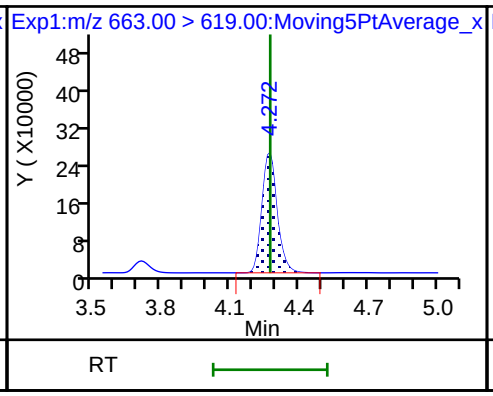
37 Perfluorododecanoic acid



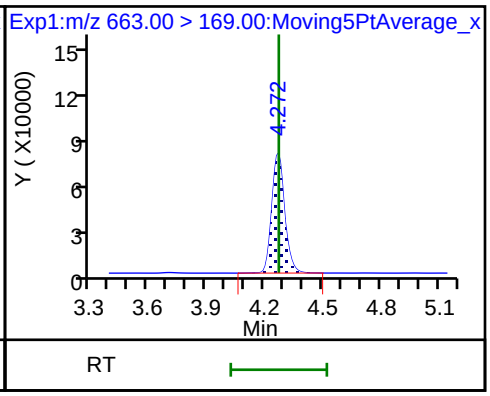
37 Perfluorododecanoic acid



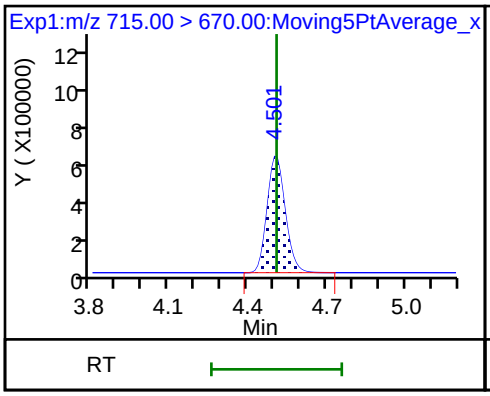
41 Perfluorotridecanoic acid



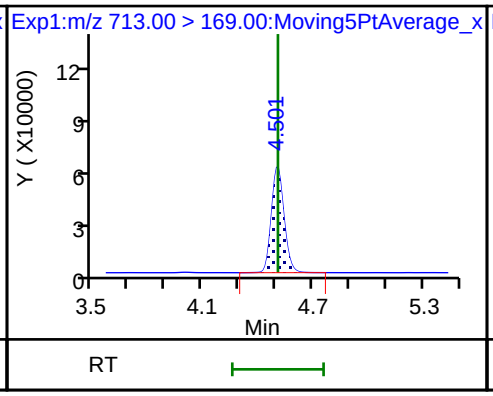
41 Perfluorotridecanoic acid



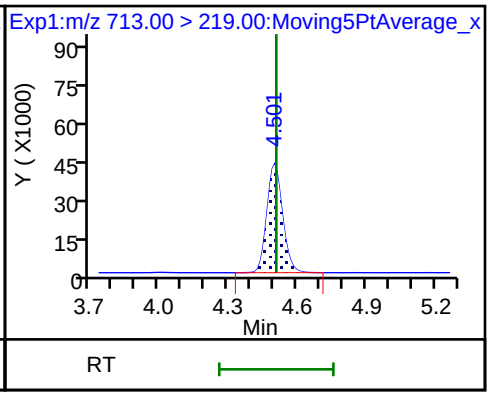
D 43 13C2-PFTeDA



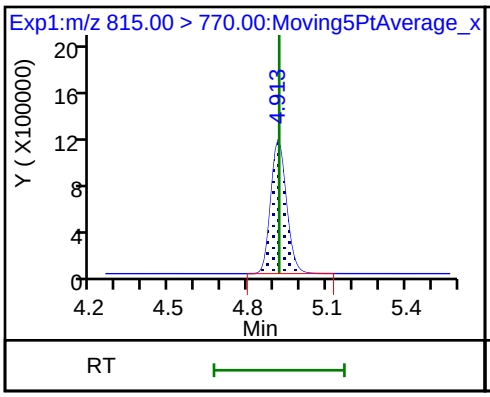
42 Perfluorotetradecanoic acid



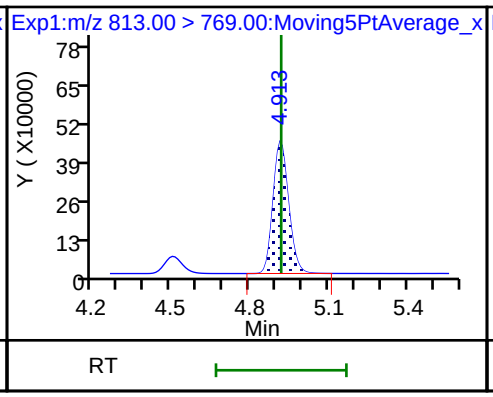
42 Perfluorotetradecanoic acid



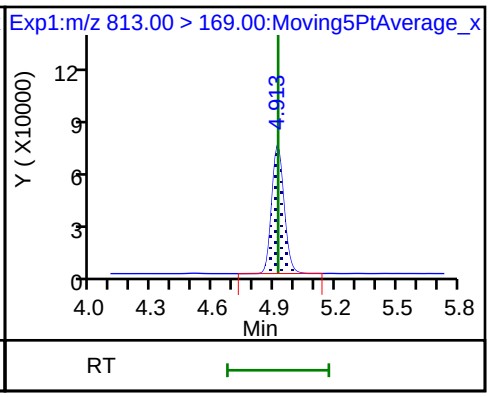
D 44 13C2-PFHxDA



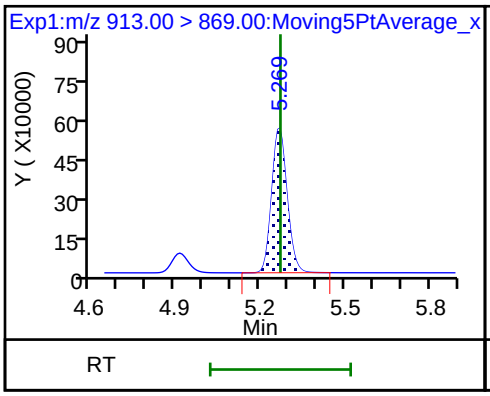
45 Perfluorohexadecanoic acid



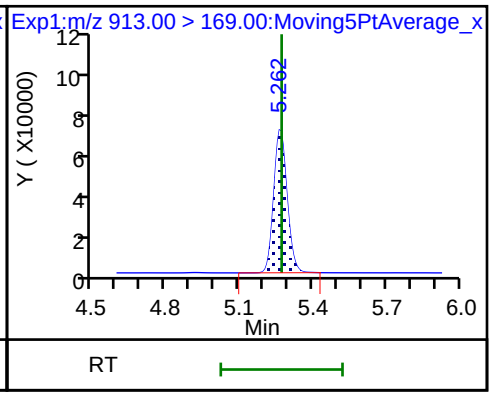
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

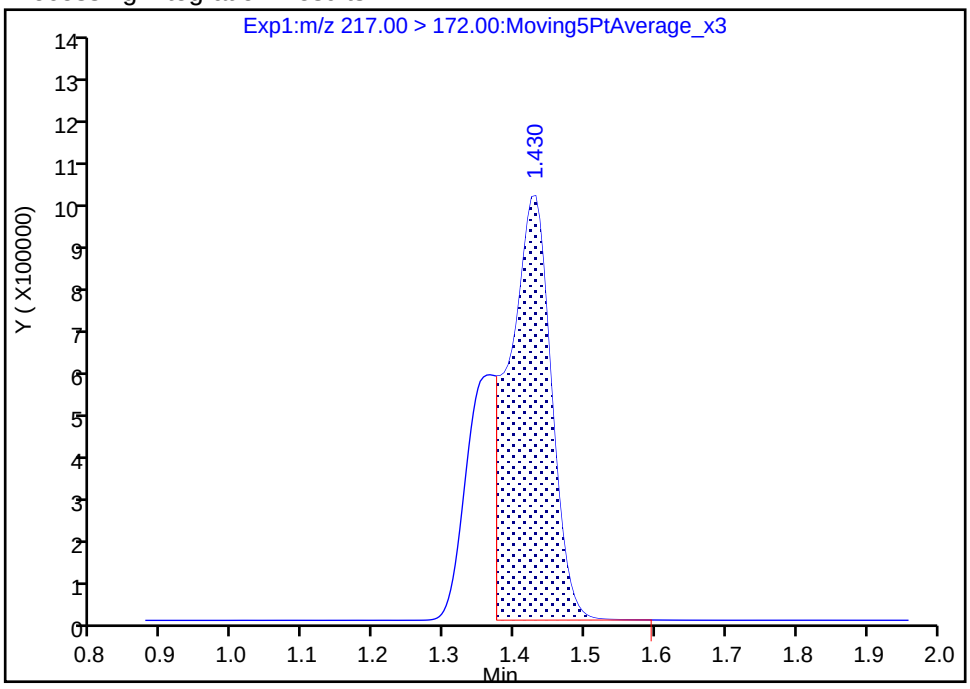
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_005.d
Injection Date: 11-Jul-2018 15:15:12 Instrument ID: A8_N
Lims ID: IC L4 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 13 Worklist Smp#: 5
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

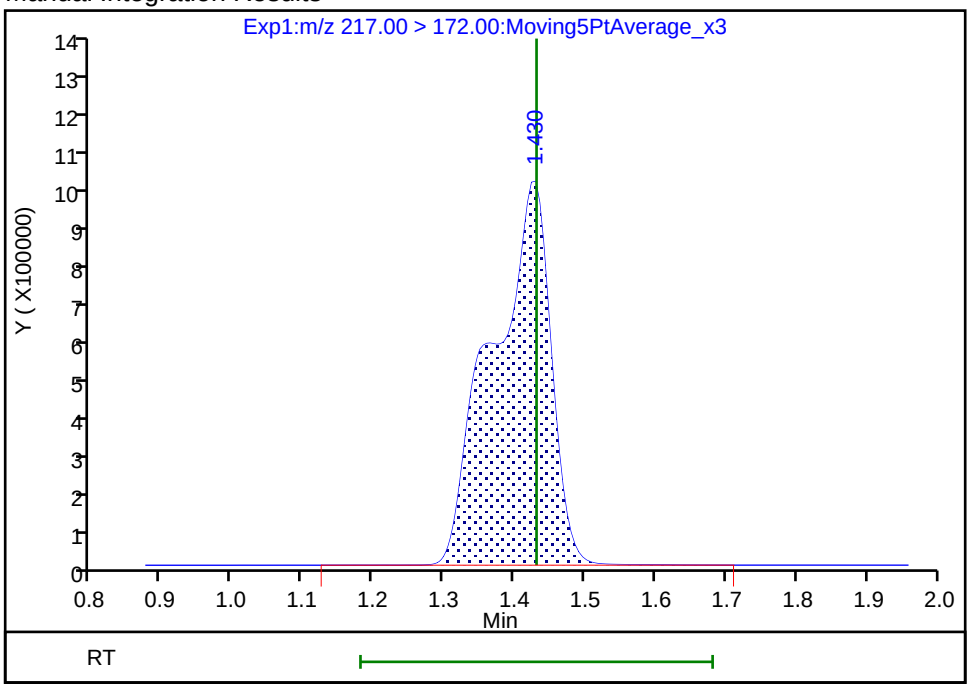
Processing Integration Results

RT: 1.43
Area: 3994583
Amount: 1.883793
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 5641372
Amount: 2.394547
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:16:12
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_006.d
Lims ID: IC L5 Full
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 11-Jul-2018 15:23:01 ALS Bottle#: 14 Worklist Smp#: 6
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L5-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:43 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:16:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.435	1.431	0.004	0.537	5280540	2.41		96.3	25331	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.431	0.004	1.000	5273443	2.53		101	2281	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.702	0.017	1.000	4381627	2.38		95.3	2113	
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.702	0.017	0.643	3788119	2.48		99.4	51157	
D 47 13C3-PFBS										
301.90 > 83.00	1.755	1.748	0.007	0.656	86878	2.27		97.5	540	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.755	1.751	0.004	1.000	6674181	2.33		106	61281	
298.90 > 99.00	1.764	1.751	0.013	1.005	2645946		2.52(1.25-3.74)	106	30456	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.969	1.962	0.007	1.122	1107254	2.28		97.6	50198	
D 60 M2-4:2FTS										
329.00 > 81.00	1.969	1.962	0.007	0.737	473738	2.30		98.6	7088	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	1.996	0.006	0.749	4018475	2.44		97.7	79463	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	1.998	0.004	1.000	4160132	2.51		101	10856	
313.00 > 119.00	2.002	1.998	0.004	1.000	388380		10.71(5.03-15.10)	101	9906	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.022	0.003	1.154	6455101	2.48		106	54556	
349.00 > 99.00	2.025	2.022	0.003	1.154	2229345		2.90(1.36-4.07)	106	35942	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.783	311580	2.66		106	7946	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.104	2.095	0.009	1.005	778109	2.35		94.1	4944	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.867	3786835	2.50		99.9	33591	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	4400212	2.51		100	8612	
363.00 > 169.00	2.319	2.319	0.0	1.000	1670402		2.63(1.13-3.40)	100	14099	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	5315063	2.21		97.2	20906	
399.00 > 99.00	2.332	2.332	0.0	1.000	1742127		3.05(1.50-4.49)	97.2	10227	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.872	4952007	2.31		97.5	38010	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.777	12756974	2.55		108	64864	
377.00 > 85.00	2.358	2.360	-0.002	0.777	7312674		1.74(0.84-2.53)	108	31574	
D 12 M2-6:2FTS										
429.00 > 81.00	2.643	2.645	-0.002	0.989	735229	2.26		95.3	14601	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.648	0.003	1.003	1207511	2.49		105	19337	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.674	2.672	0.002	1.000	4451468	2.36		94.1	3343	
413.00 > 169.00	2.674	2.672	0.002	1.000	2330707		1.91(0.84-2.52)	94.1	9438	
* 62 13C2-PFOA										
415.00 > 370.00	2.674	2.672	0.002		4043518	2.50			48829	
D 14 13C4 PFOA										
417.00 > 372.00	2.674	2.672	0.002	1.000	3836329	2.48		99.2	36799	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.682	2.678	0.004	0.884	5191820	2.53		107	34935	
449.00 > 99.00	2.682	2.678	0.004	0.884	1323329		3.92(1.94-5.82)	107	17676	
D 18 13C4 PFOS										
503.00 > 80.00	3.034	3.034	0.0	1.135	3715442	2.36		98.7	27307	
D 19 13C5 PFNA										
468.00 > 423.00	3.034	3.035	-0.001	1.135	3458178	2.50		100	35610	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.034	3.035	-0.001	1.000	4135858	2.35		101	37972	
499.00 > 99.00	3.034	3.035	-0.001	1.000	892390		4.63(2.31-6.93)	101	14610	
20 Perfluorononanoic acid										
463.00 > 419.00	3.034	3.036	-0.002	1.000	3819652	2.49		99.6	8703	
463.00 > 169.00	3.034	3.036	-0.002	1.000	918661		4.16(1.90-5.69)	99.6	19742	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.248	3.245	0.003	1.071	7252582	2.54		109	52779	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.367	0.005	1.261	5643811	2.48		99.4	47295	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.371	0.001	1.000	5880155	2.64		106	55445	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.382	3.377	0.005	1.115	2871112	2.38		99.3	46492	
549.00 > 99.00	3.372	3.377	-0.005	1.112	1101132		2.61(1.33-3.97)	99.3	15623	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.382	3.380	0.002	1.000	1414341	2.48		103	28571	
D 26 M2-8:2FTS										
529.00 > 81.00	3.382	3.380	0.002	1.265	1060685	2.23		93.2	19616	
D 23 13C2 PFDA										
515.00 > 470.00	3.391	3.391	0.0	1.268	3096188	2.55		102	36882	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.391	3.392	-0.001	1.000	3246129	2.50		99.9	19256	
513.00 > 169.00	3.391	3.392	-0.001	1.000	556303		5.84(2.36-7.09)	99.9	17777	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.540	3.544	-0.004	1.324	1216339	2.45		97.8	19061	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.550	3.548	0.002	1.003	1243187	2.59		104	9167	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.700	3.701	-0.001	1.220	2652406	2.54		105	55532	
599.00 > 99.00	3.700	3.701	-0.001	1.220	845113		3.14(1.39-4.16)	105	44197	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.711	3.710	0.001	1.388	1230676	2.42		96.6	2971	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.716	-0.005	1.388	2509304	2.48		99.0	34202	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.721	3.718	0.003	1.003	1138694	2.62		105	27224	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.721	3.718	0.003	1.003	2099121	2.55		102	10965	
563.00 > 169.00	3.721	3.718	0.003	1.003	516328		4.07(2.12-6.36)	102	21072	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.879	3.874	0.005	1.279	10147290	2.46		104	87741	
D 36 13C2 PFDoA										
615.00 > 570.00	4.010	4.009	0.001	1.500	2524421	2.40		96.1	15731	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.010	4.011	-0.001	1.000	2886271	2.62		105	1721	
613.00 > 169.00	4.010	4.011	-0.001	1.000	674369		4.28(2.13-6.40)	105	13057	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.273	4.273	0.0	1.066	2993320	2.78		111	1323	
663.00 > 169.00	4.273	4.273	0.0	1.066	854966		3.50(1.25-3.76)	111	11132	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.513	4.508	0.005	1.688	2737226	2.51		100	14031	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.513	4.508	0.005	1.000	681755	2.39		95.7	9488	
713.00 > 219.00	4.502	4.508	-0.006	0.998	464264		1.47(0.71-2.13)	95.7	8850	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.915	4.918	-0.003	1.838	4503233	2.59		104	13280	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.915	4.918	-0.003	1.000	4281172	2.48		99.2	858	
813.00 > 169.00	4.915	4.918	-0.003	1.000	687117		6.23(2.86-8.58)	99.2	5691	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.270	5.271	-0.001	1.072	5144900	2.50		100.0	916	
913.00 > 169.00	5.270	5.271	-0.001	1.072	608942		8.45(3.83-11.48)	100.0	5777	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:45 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_006.d

Injection Date: 11-Jul-2018 15:23:01 Instrument ID: A8_N

Lims ID: IC L5 Full

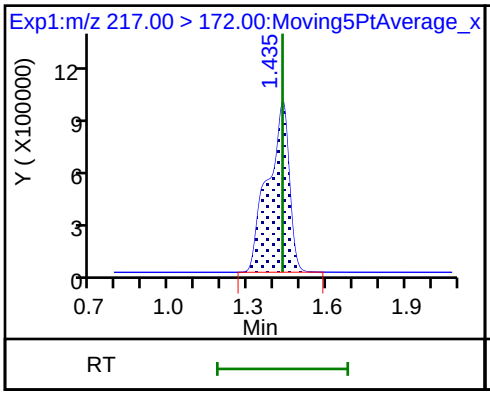
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 14 Worklist Smp#: 6

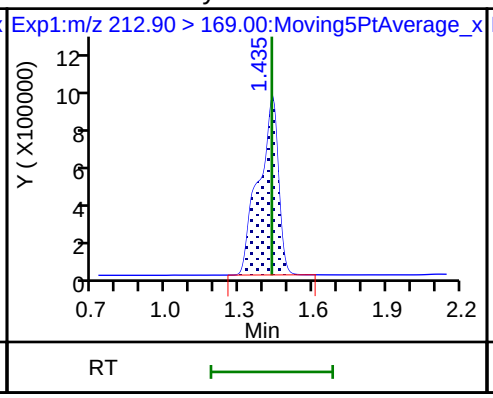
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

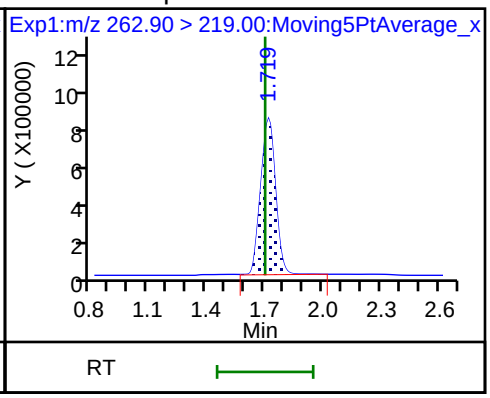
D 1 13C4 PFBA



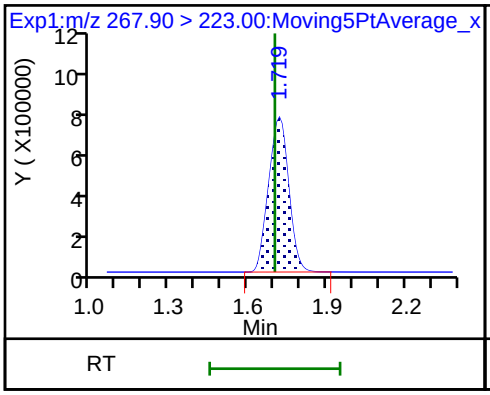
2 Perfluorobutyric acid



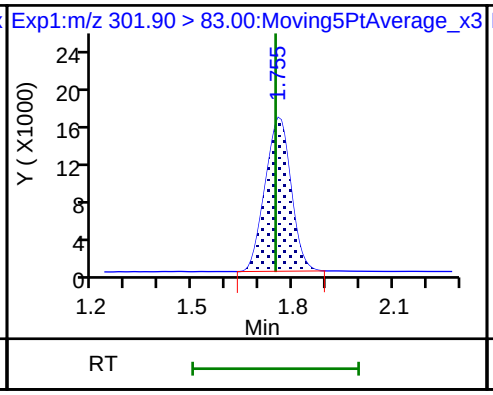
4 Perfluoropentanoic acid



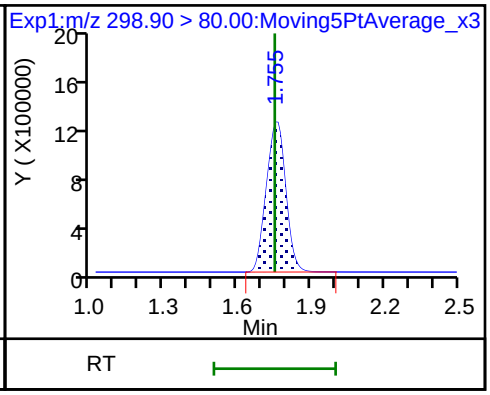
D 3 13C5-PFPeA



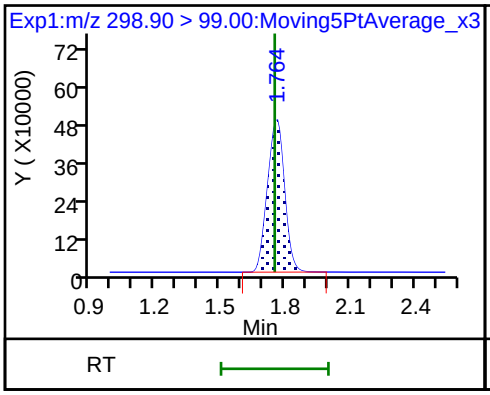
D 47 13C3-PFBS



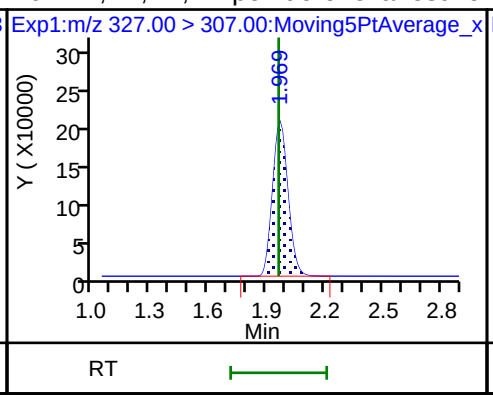
5 Perfluorobutanesulfonic acid



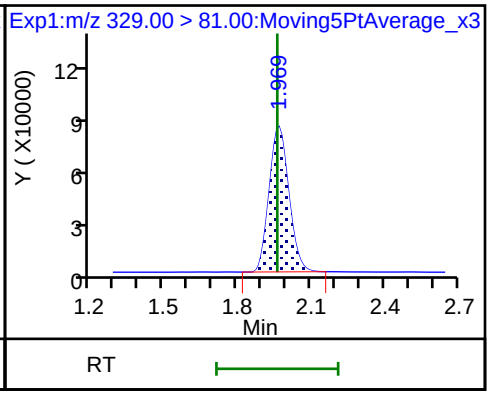
5 Perfluorobutanesulfonic acid



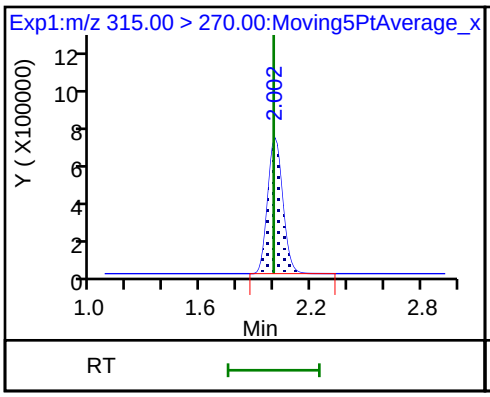
61 1H,1H,2H,2H-perfluorohexanesulfon



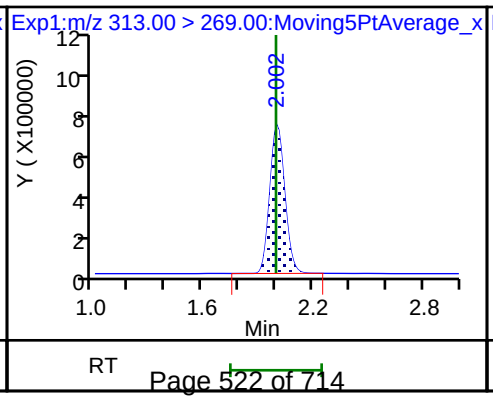
D 60 M2-4:2FTS



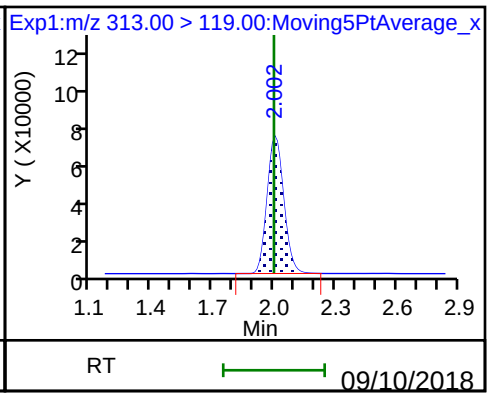
D 7 13C2 PFHxA



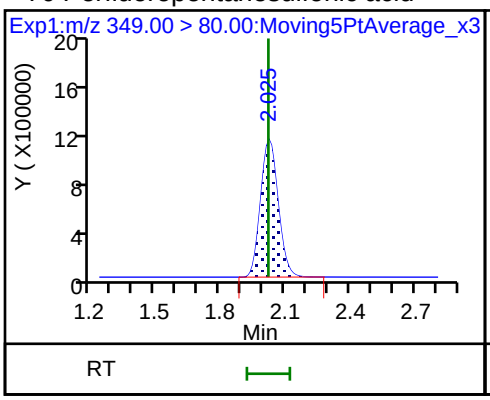
6 Perfluorohexanoic acid



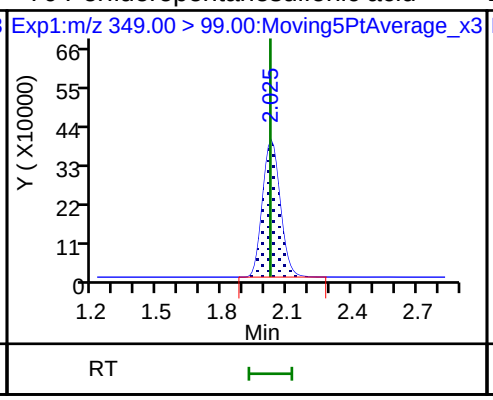
6 Perfluorohexanoic acid



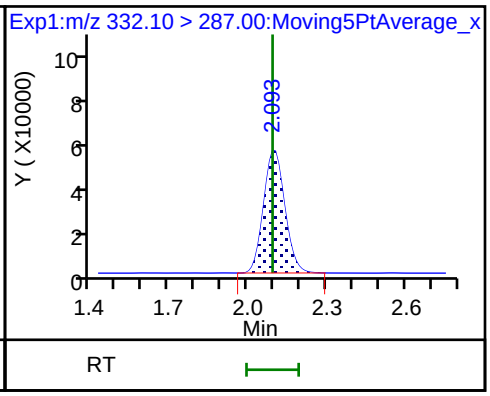
70 Perfluoropentanesulfonic acid



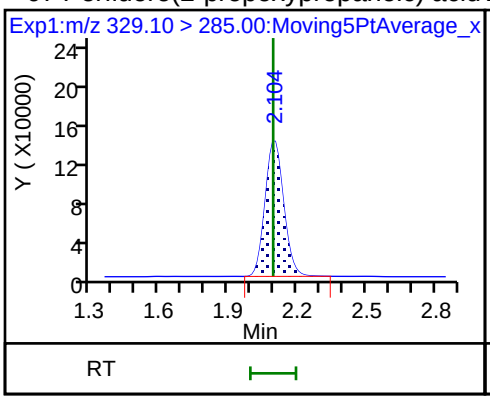
70 Perfluoropentanesulfonic acid



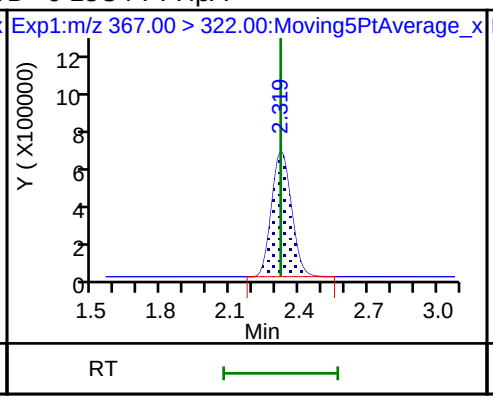
D 64 13C3 HFPO-DA



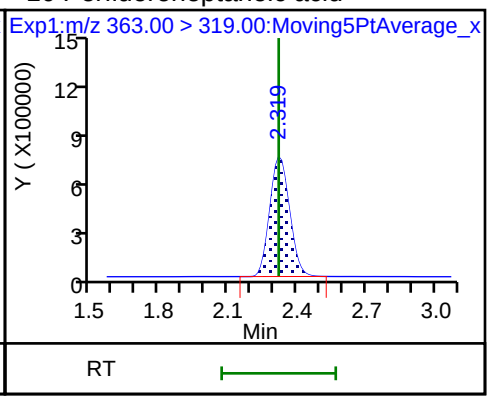
67 Perfluoro(2-propoxypropanoic) acid



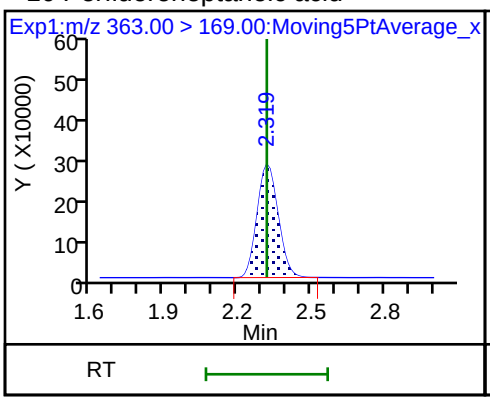
D 9 13C4-PFHpA



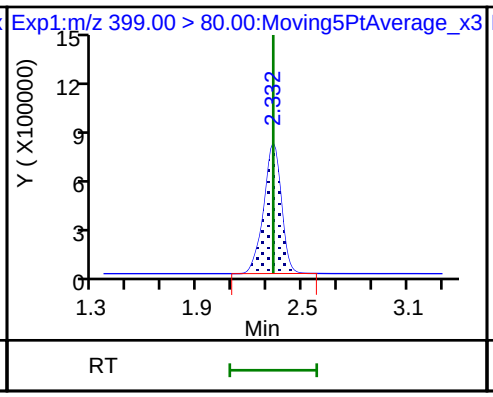
10 Perfluoroheptanoic acid



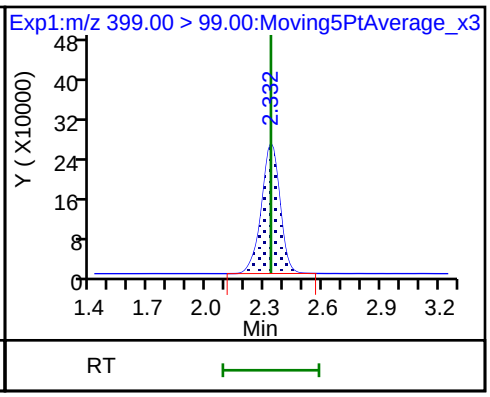
10 Perfluoroheptanoic acid



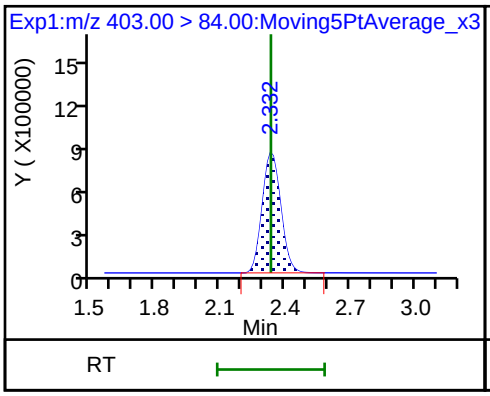
8 Perfluorohexanesulfonic acid



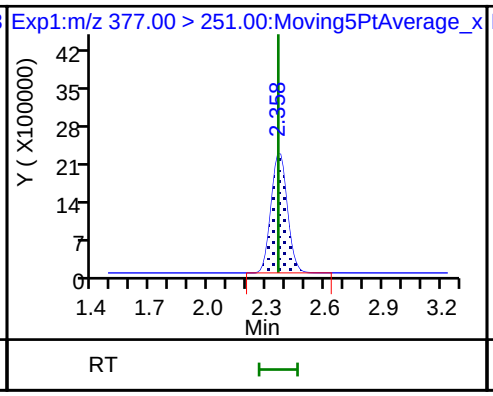
8 Perfluorohexanesulfonic acid



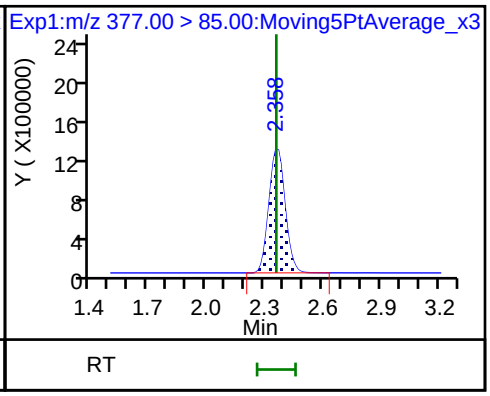
D 11 18O2 PFHxS



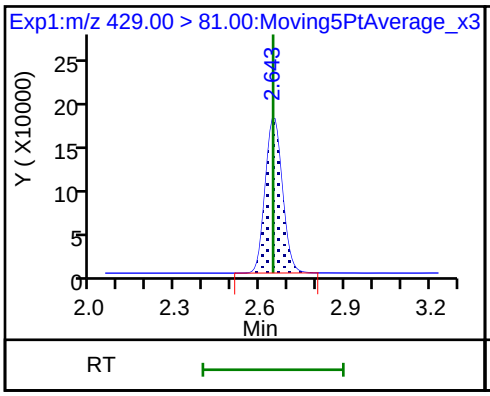
65 Adona



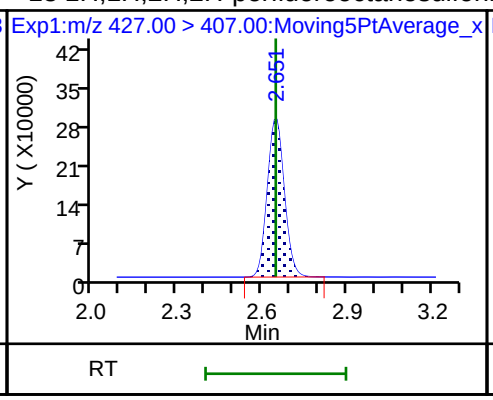
65 Adona



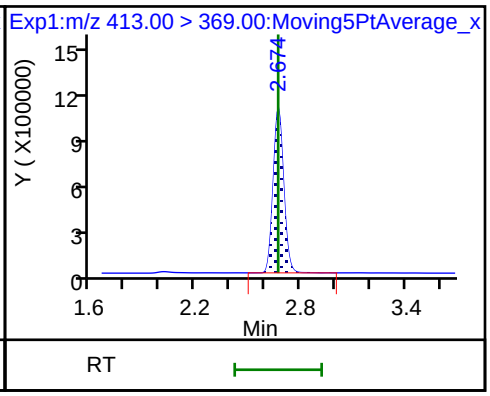
D 12 M2-6:2FTS



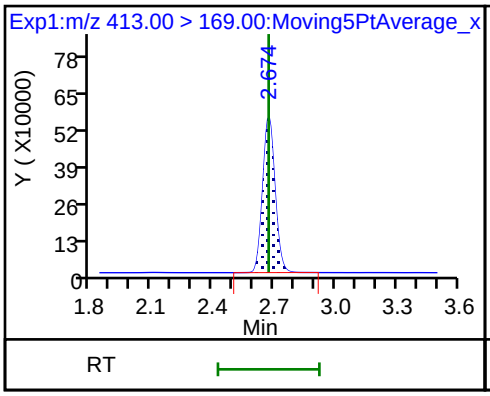
13 1H,1H,2H,2H-perfluorooctanesulfoni



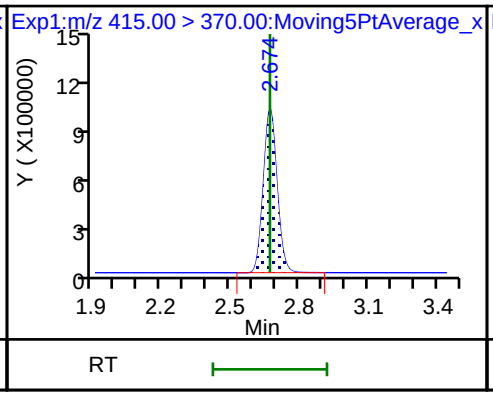
15 Perfluorooctanoic acid



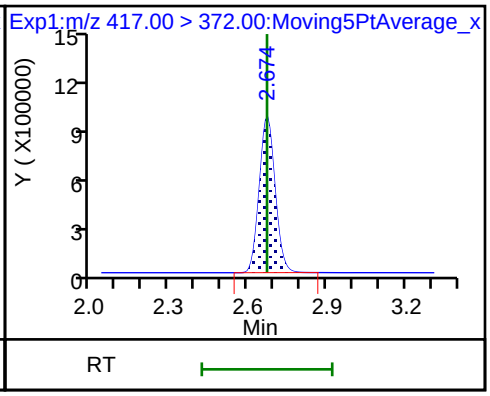
15 Perfluorooctanoic acid



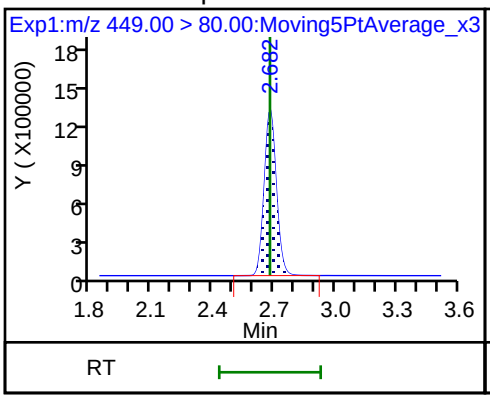
* 62 13C2-PFOA



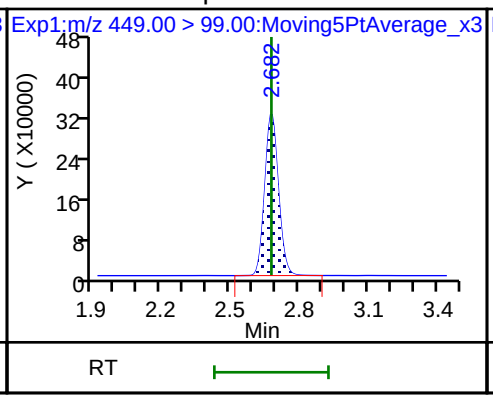
D 14 13C4 PFOA



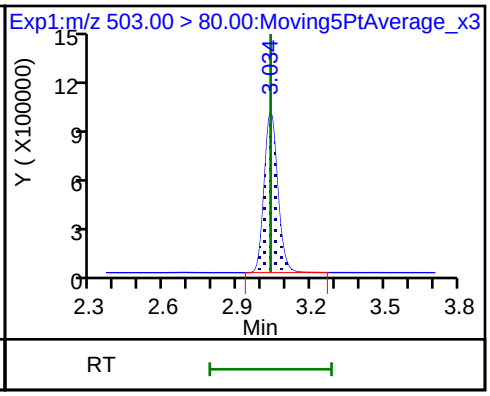
16 Perfluoroheptanesulfonic acid



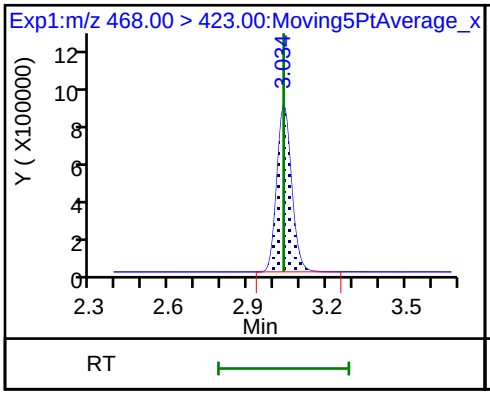
16 Perfluoroheptanesulfonic acid



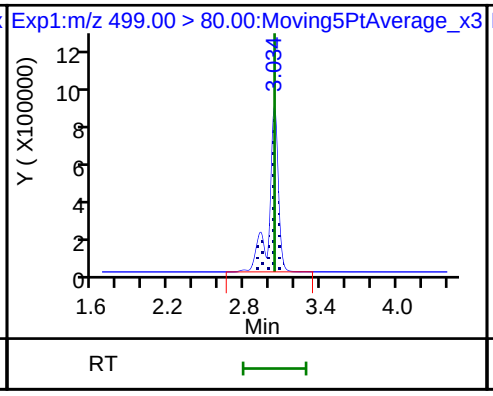
D 18 13C4 PFOS



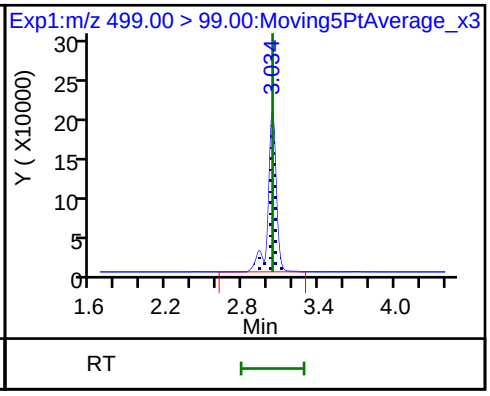
D 19 13C5 PFNA



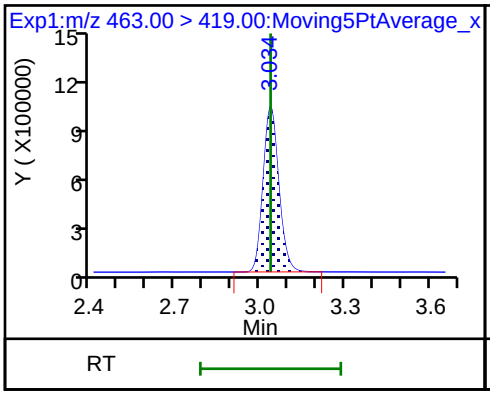
17 Perfluorooctane sulfonic acid



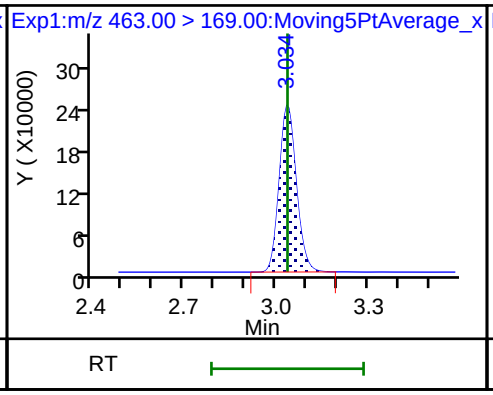
17 Perfluorooctane sulfonic acid



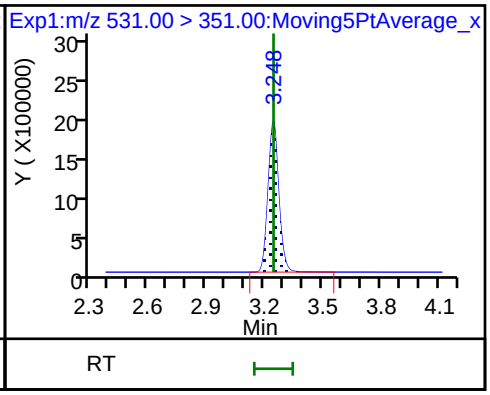
20 Perfluorononanoic acid



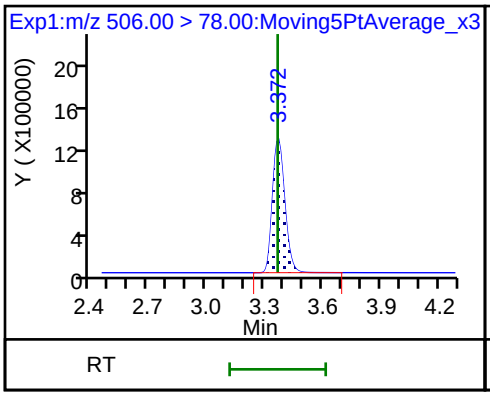
20 Perfluorononanoic acid



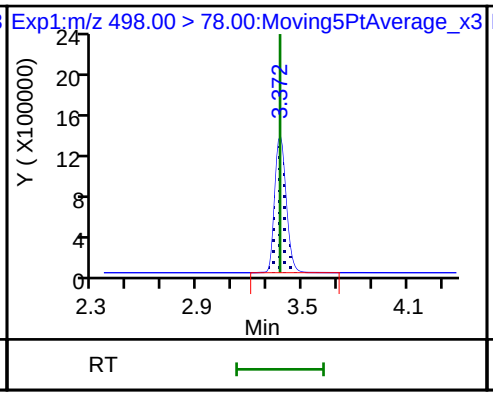
69 9-Chlorohexadecafluoro-3-oxanonane



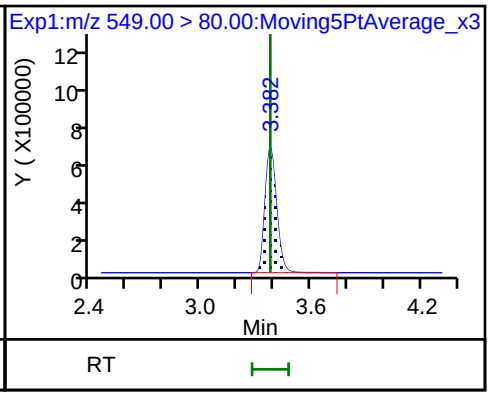
D 21 13C8 FOSA



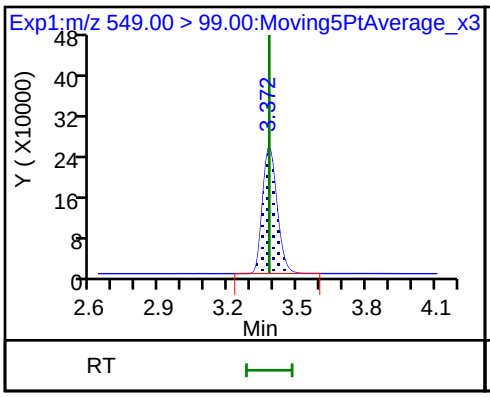
22 Perfluorooctane Sulfonamide



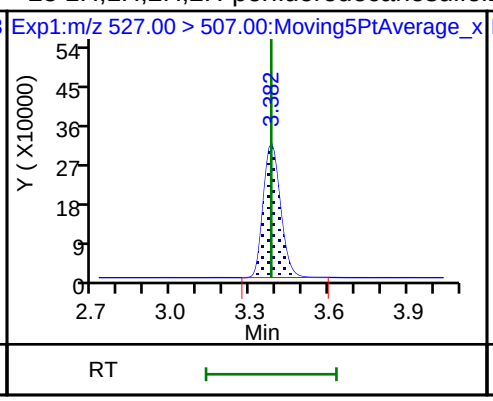
68 Perfluorononanesulfonic acid



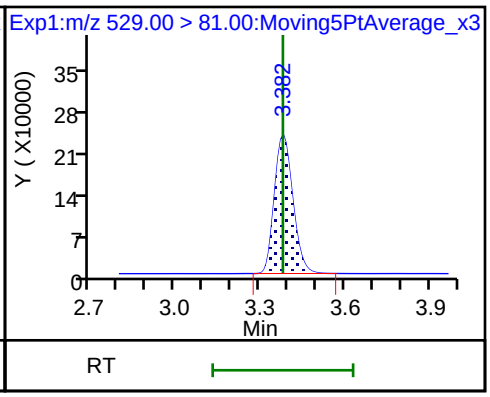
68 Perfluorononanesulfonic acid



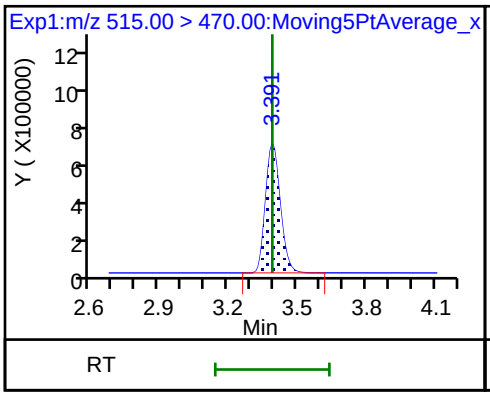
25 1H,1H,2H,2H-perfluorodecanesulfon



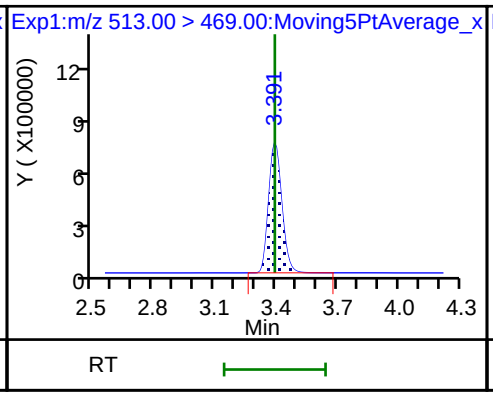
D 26 M2-8:2FTS



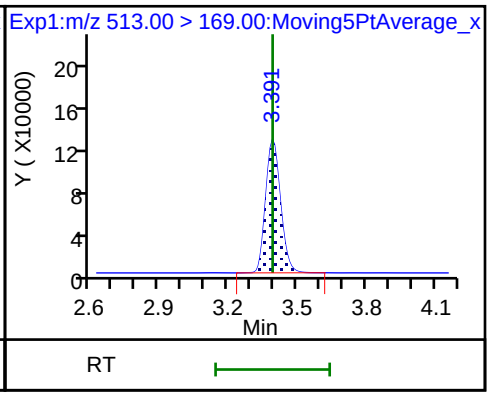
D 23 13C2 PFDA



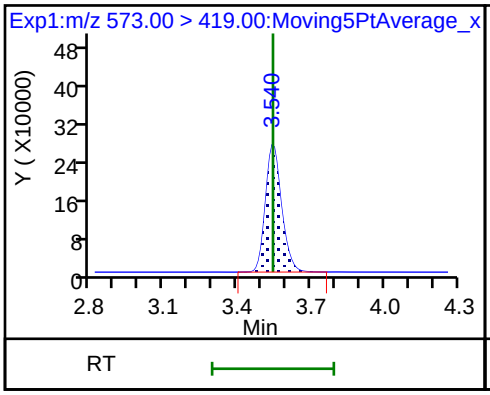
24 Perfluorodecanoic acid



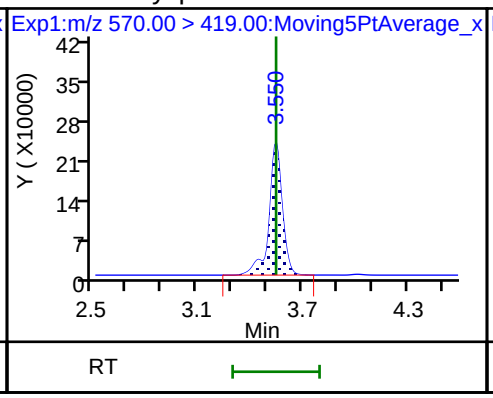
24 Perfluorodecanoic acid



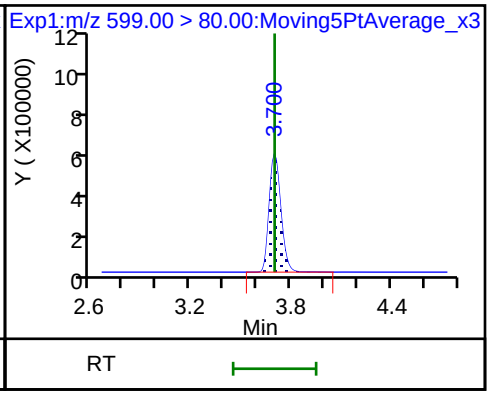
D 27 d3-NMeFOSAA



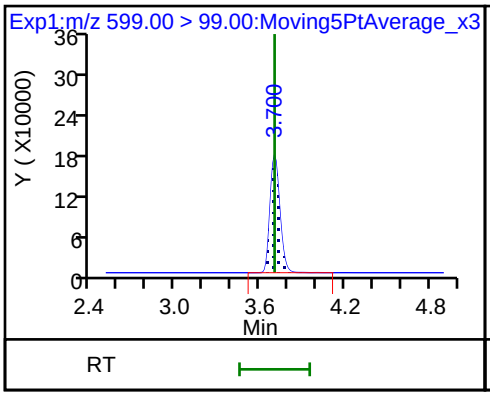
28 N-methyl perfluorooctane sulfonami



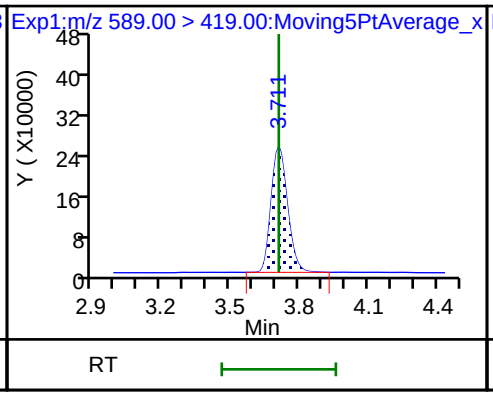
29 Perfluorodecane Sulfonic acid



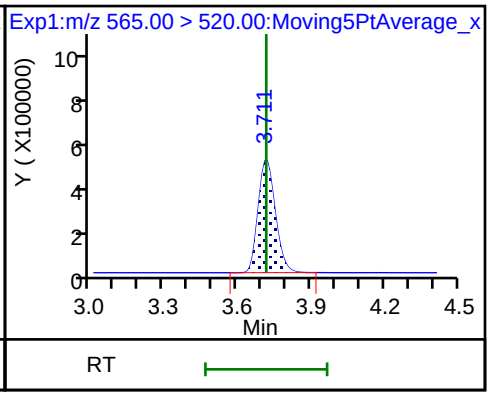
29 Perfluorodecane Sulfonic acid



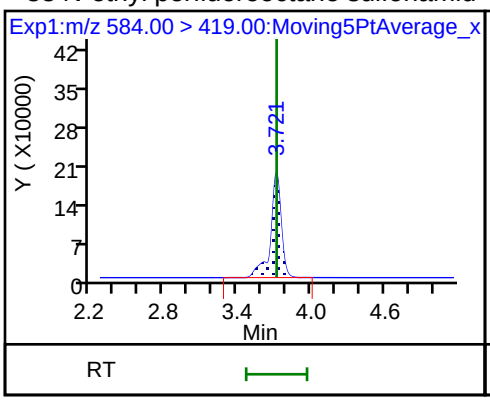
D 32 d5-NEtFOSAA



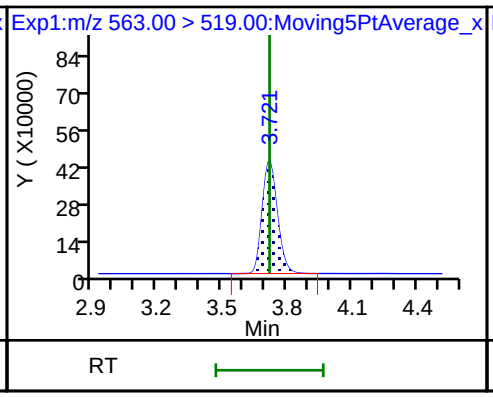
D 30 13C2 PFUnA



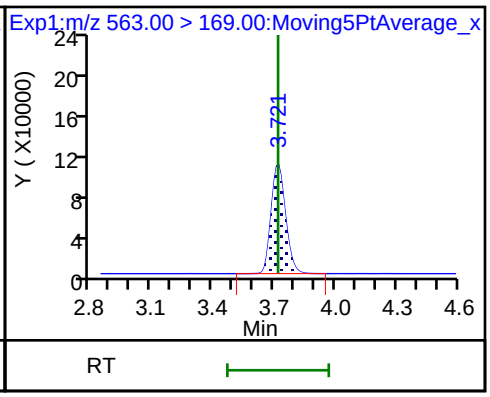
33 N-ethyl perfluorooctane sulfonamid



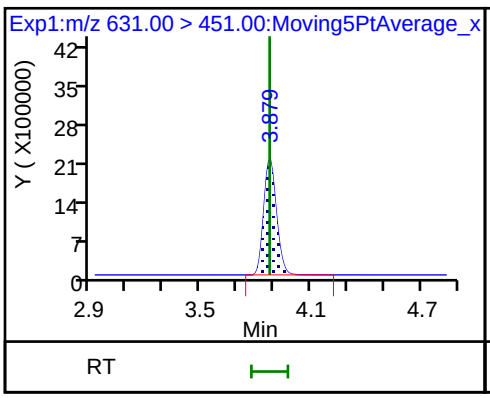
31 Perfluoroundecanoic acid



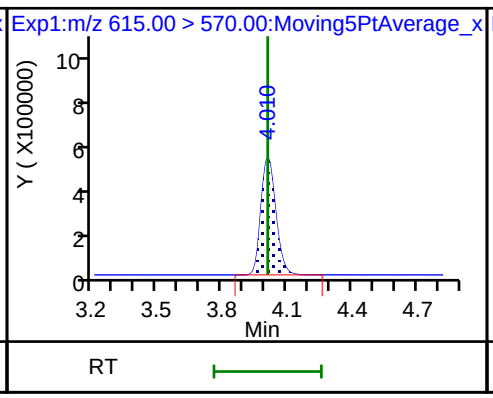
31 Perfluoroundecanoic acid



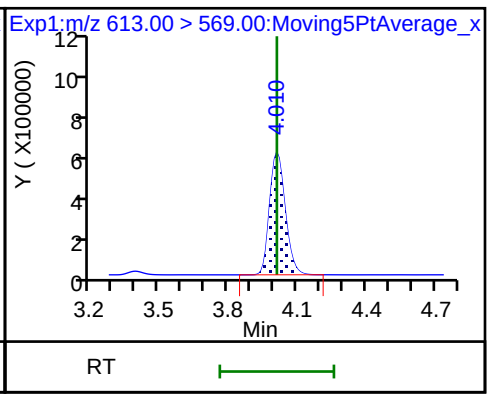
66 11-Chloroeicosafluoro-3-oxaundecan



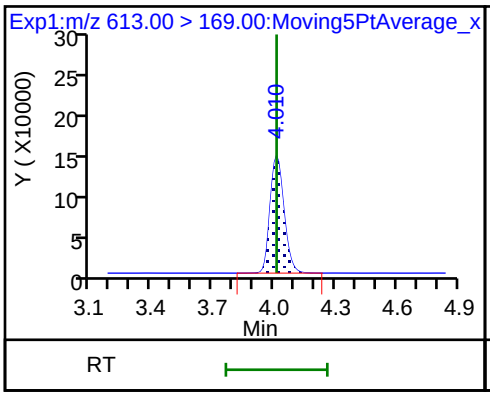
D 36 13C2 PFDoA



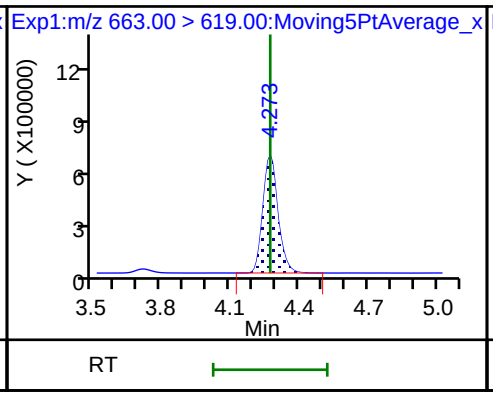
37 Perfluorododecanoic acid



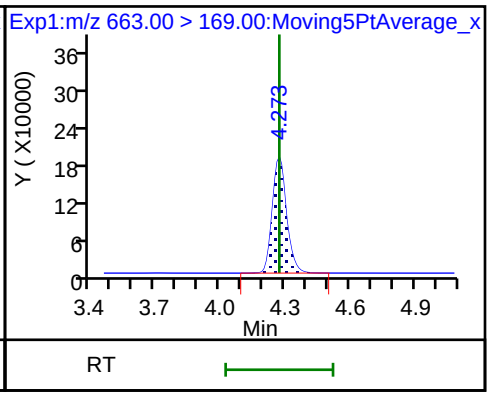
37 Perfluorododecanoic acid



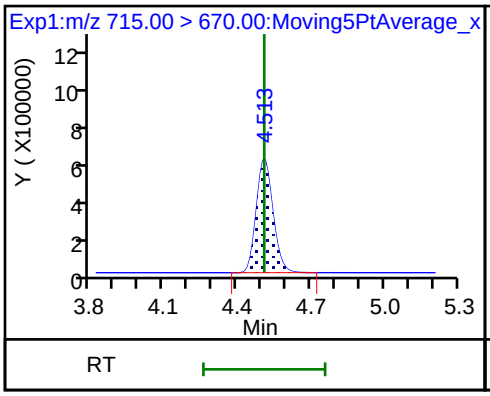
41 Perfluorotridecanoic acid



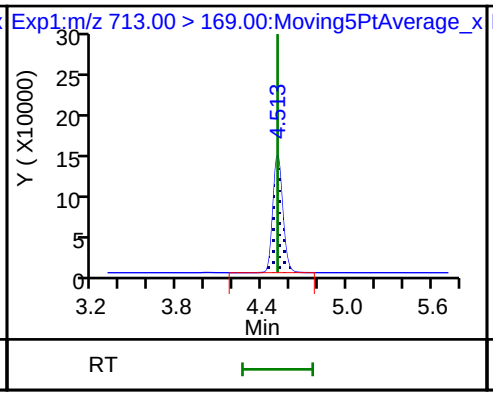
41 Perfluorotridecanoic acid



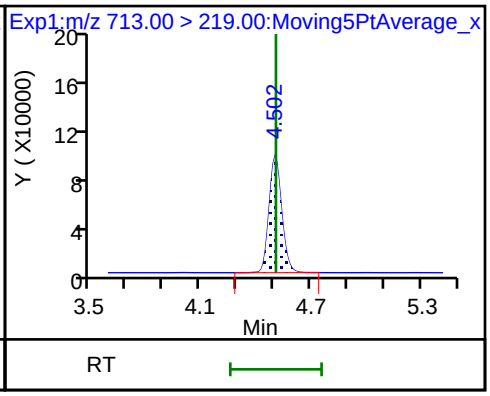
D 43 13C2-PFTeDA



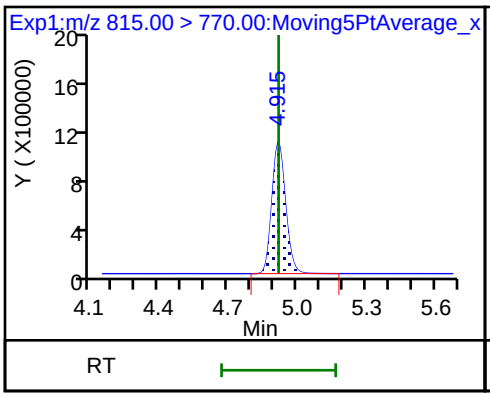
42 Perfluorotetradecanoic acid



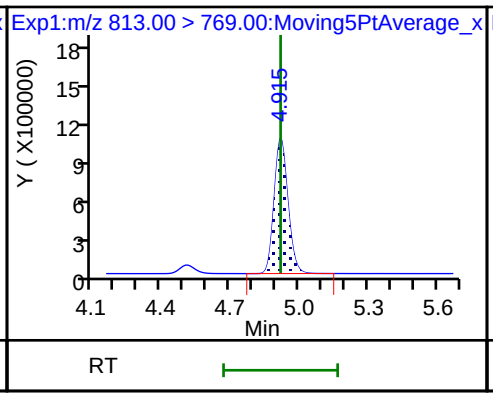
42 Perfluorotetradecanoic acid



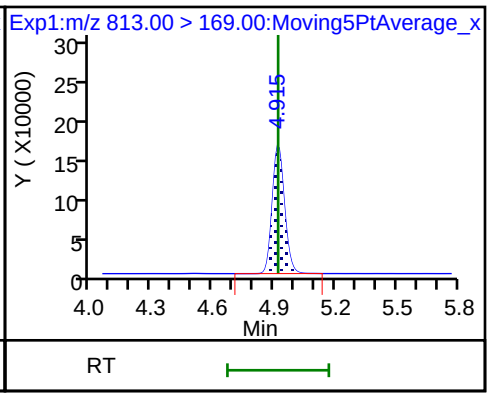
D 44 13C2-PFHxDA



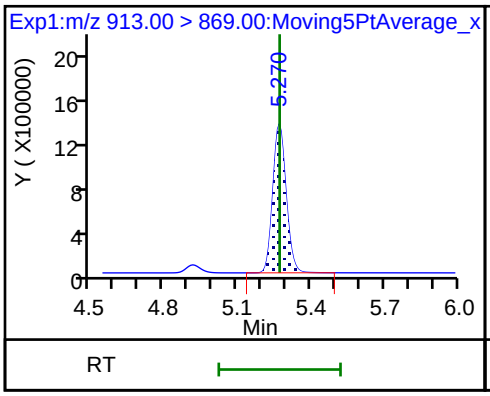
45 Perfluorohexadecanoic acid



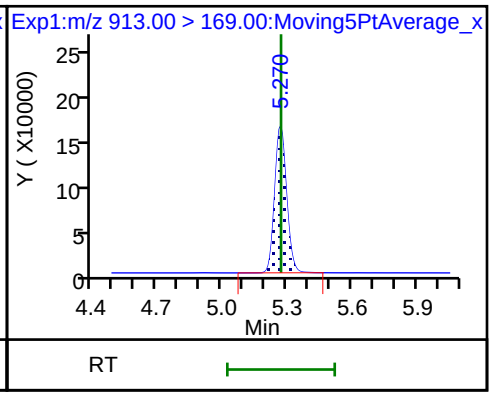
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d
Lims ID: IC L6 Full
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 11-Jul-2018 15:30:51 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L6-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:48 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:16:59

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.431	-0.001	0.536	5244451	2.60		104	26067	
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	10623913	5.14		103	4269	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.702	0.010	0.995	8699476	4.80		96.0	3536	
D 3 13C5-PFPeA										
267.90 > 223.00	1.721	1.702	0.019	0.645	3734969	2.67		107	45652	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.748	0.009	0.659	85755	2.44		105	556	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.751	0.006	1.000	12546505	4.45		101	80798	
298.90 > 99.00	1.757	1.751	0.006	1.000	5222453		2.40(1.25-3.74)	101	56269	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.962	-0.002	1.116	2260293	4.71		101	66860	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.962	-0.002	0.735	448621	2.37		102	7916	
D 7 13C2 PFHxA										
315.00 > 270.00	2.005	1.996	0.009	0.751	3887868	2.57		103	56861	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.005	1.998	0.007	1.000	7978958	4.98		99.7	16483	
313.00 > 119.00	2.005	1.998	0.007	1.000	733692		10.88(5.03-15.10)	99.7	14111	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.022	0.005	1.154	12185262	4.73		101	130724	
349.00 > 99.00	2.027	2.022	0.005	1.154	4447227		2.74(1.36-4.07)	101	59105	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	0.785	274060	2.55		102	6131	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	1554085	5.34		107	9565	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.870	3621431	2.60		104	50151	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	8030466	4.79		95.9	13754	
363.00 > 169.00	2.321	2.319	0.002	1.000	3099430		2.59(1.13-3.40)	95.9	28534	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	10305090	4.44		97.7	24644	
399.00 > 99.00	2.334	2.332	0.002	1.000	3360883		3.07(1.50-4.49)	97.7	16838	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.875	4777689	2.42		102	31887	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.779	21793498	4.54		96.5	93035	
377.00 > 85.00	2.360	2.360	0.0	0.779	13380474		1.63(0.84-2.53)	96.5	38099	
D 12 M2-6:2FTS										
429.00 > 81.00	2.645	2.645	0.0	0.991	731524	2.45		103	13338	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.645	2.648	-0.003	1.000	2292840	4.76		100	23614	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.672	-0.004	1.000	8461263	4.83		96.5	5834	
413.00 > 169.00	2.668	2.672	-0.004	1.000	4348670		1.95(0.84-2.52)	96.5	14778	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.672	-0.004		3715082	2.50			46614	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.672	-0.004	1.000	3555536	2.50		100	32718	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.678	-0.003	0.883	9707552	4.95		104	57797	
449.00 > 99.00	2.675	2.678	-0.003	0.883	2601931		3.73(1.94-5.82)	104	34929	
D 18 13C4 PFOS										
503.00 > 80.00	3.028	3.034	-0.006	1.135	3560852	2.46		103	16573	
D 19 13C5 PFNA										
468.00 > 423.00	3.035	3.035	0.0	1.138	3155893	2.48		99.4	35122	
17 Perfluorooctane sulfonic acid										M
499.00 > 80.00	3.035	3.035	0.0	1.002	7822689	4.63		99.9	47978	M
499.00 > 99.00	3.028	3.035	-0.007	1.000	1713466		4.57(2.31-6.93)	99.9	18530	
20 Perfluorononanoic acid										
463.00 > 419.00	3.035	3.036	-0.001	1.000	6996919	5.00		99.9	14728	
463.00 > 169.00	3.035	3.036	-0.001	1.000	1776453		3.94(1.90-5.69)	99.9	57242	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.244	3.245	-0.001	1.071	12796083	4.68		100	60061	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.367	-0.002	1.261	5338756	2.56		102	42112	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.365	3.371	-0.006	1.000	10688141	5.08		102	53820	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.374	3.377	-0.003	1.114	5807858	5.03		105	55859	
549.00 > 99.00	3.374	3.377	-0.003	1.114	2044157		2.84(1.33-3.97)	105	26141	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.374	3.380	-0.006	1.000	2561237	4.79		100.0	42774	
D 26 M2-8:2FTS										
529.00 > 81.00	3.374	3.380	-0.006	1.265	992916	2.27		94.9	10859	
D 23 13C2 PFDA										
515.00 > 470.00	3.393	3.391	0.002	1.272	2641138	2.37		94.7	24430	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.393	3.392	0.001	1.000	5773802	5.21		104	35658	
513.00 > 169.00	3.393	3.392	0.001	1.000	975368		5.92(2.36-7.09)	104	36128	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.542	3.544	-0.002	1.328	1218514	2.67		107	18907	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.542	3.548	-0.006	1.000	2377396	4.95		99.0	15134	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.701	3.701	0.0	1.222	4963395	4.96		103	171868	
599.00 > 99.00	3.701	3.701	0.0	1.222	1591413		3.12(1.39-4.16)	103	25545	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.712	3.710	0.002	1.391	1179674	2.52		101	2782	
D 30 13C2 PFUnA										
565.00 > 520.00	3.712	3.716	-0.004	1.391	2361908	2.54		101	30441	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.712	3.718	-0.006	1.000	2183486	5.23		105	52082	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.712	3.718	-0.006	1.000	3694320	4.77		95.4	15018	
563.00 > 169.00	3.712	3.718	-0.006	1.000	987463		3.74(2.12-6.36)	95.4	29138	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.869	3.874	-0.005	1.278	18152128	4.59		97.5	108382	
D 36 13C2 PFDoA										
615.00 > 570.00	4.002	4.009	-0.007	1.500	2508500	2.60		104	17566	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.002	4.011	-0.009	1.000	5437907	4.96		99.3	3341	
613.00 > 169.00	4.002	4.011	-0.009	1.000	1255499		4.33(2.13-6.40)	99.3	21823	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.067	5412702	5.05		101	2553	
663.00 > 169.00	4.271	4.273	-0.002	1.067	1682812		3.22(1.25-3.76)	101	21504	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.687	2597628	2.59		104	14814	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	1344804	4.97		99.5	16596	
713.00 > 219.00	4.501	4.508	-0.007	1.000	959226		1.40(0.71-2.13)	99.5	12659	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.842	4082261	2.56		102	14471	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	7932024	5.09		102	1899	
813.00 > 169.00	4.914	4.918	-0.004	1.000	1261923		6.29(2.86-8.58)	102	9525	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.262	5.271	-0.009	1.071	9282794	4.97		99.5	1626	
913.00 > 169.00	5.262	5.271	-0.009	1.071	1136842		8.17(3.83-11.48)	99.5	7354	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL6_00006 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:50 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d

Injection Date: 11-Jul-2018 15:30:51 Instrument ID: A8_N

Lims ID: IC L6 Full

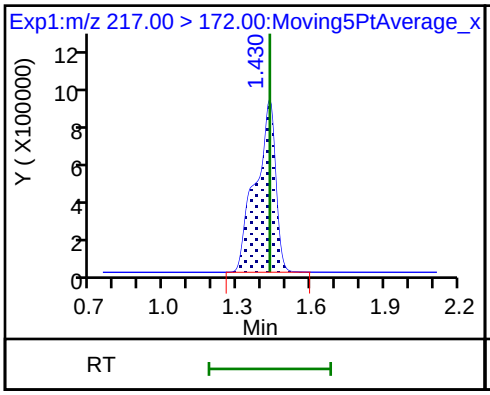
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7

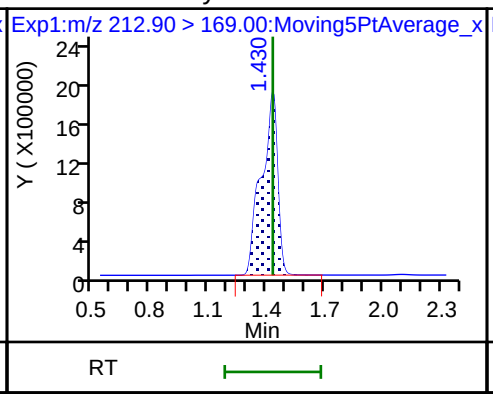
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

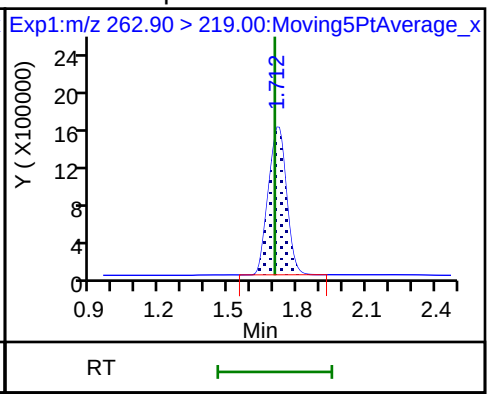
D 1 13C4 PFBA



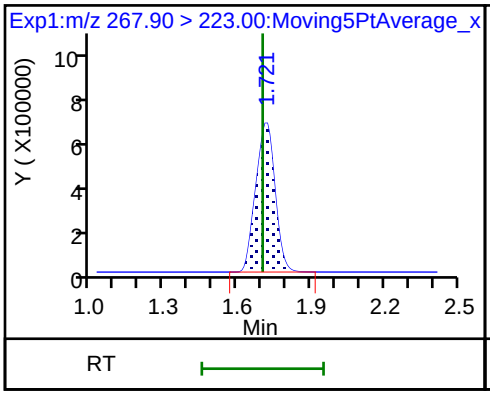
2 Perfluorobutyric acid



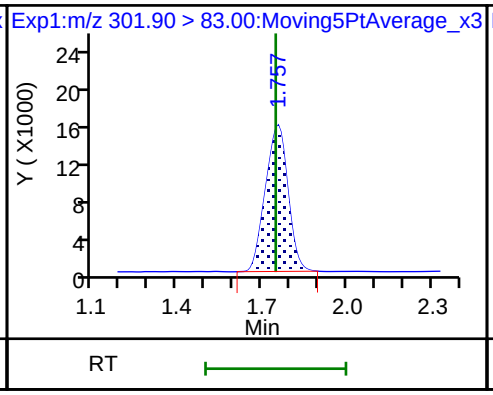
4 Perfluoropentanoic acid



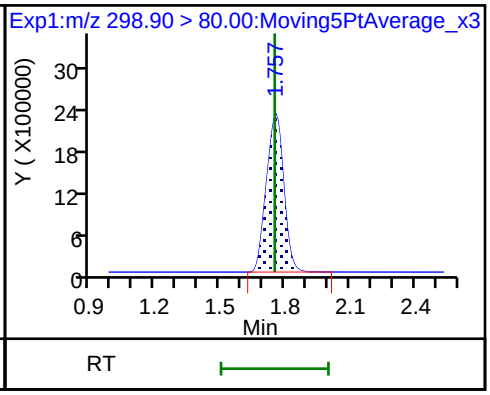
D 3 13C5-PFPeA



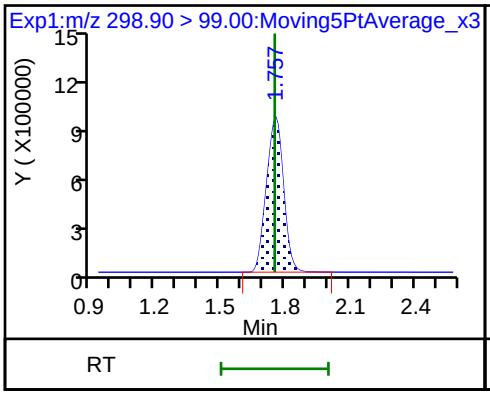
D 47 13C3-PFBS



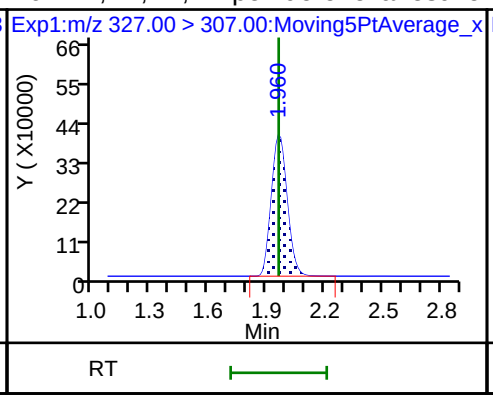
5 Perfluorobutanesulfonic acid



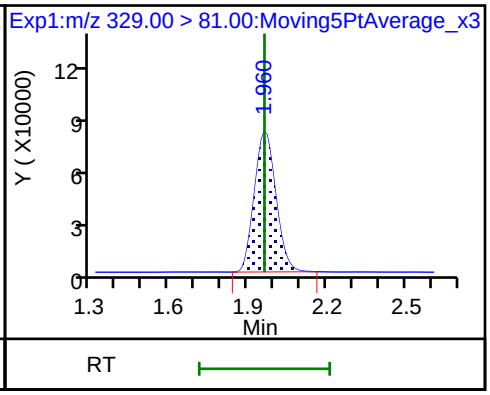
5 Perfluorobutanesulfonic acid



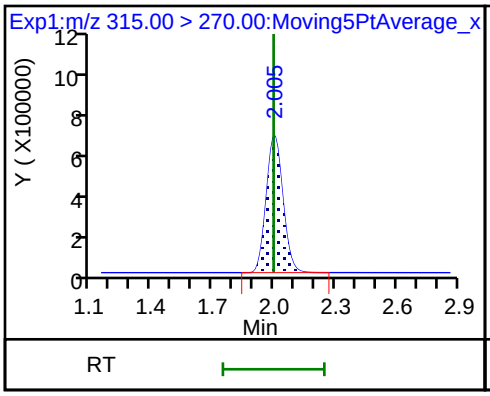
61 1H,1H,2H,2H-perfluorohexanesulfon



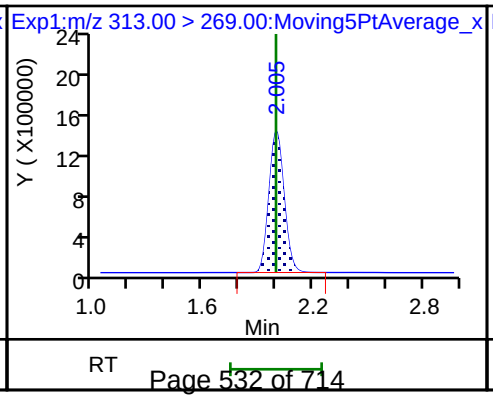
D 60 M2-4:2FTS



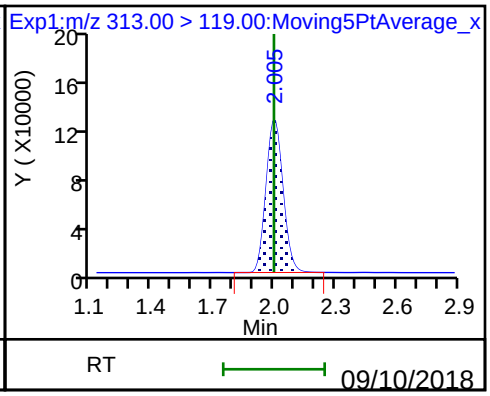
D 7 13C2 PFHxA



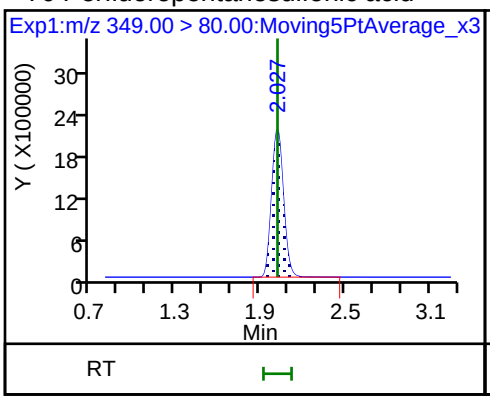
6 Perfluorohexanoic acid



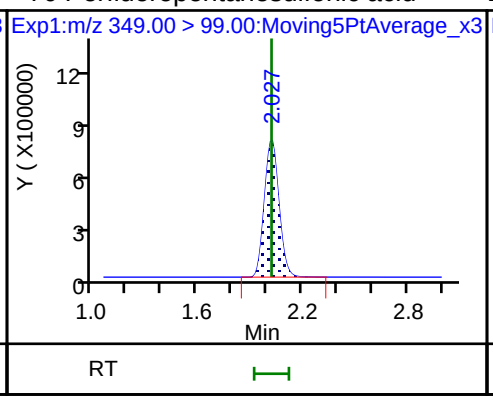
6 Perfluorohexanoic acid



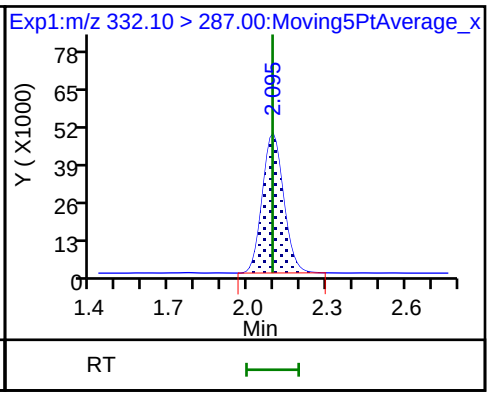
70 Perfluoropentanesulfonic acid



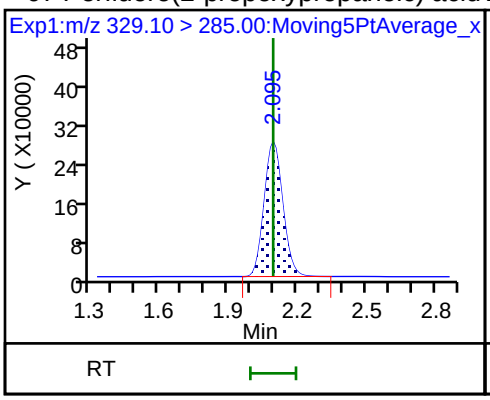
70 Perfluoropentanesulfonic acid



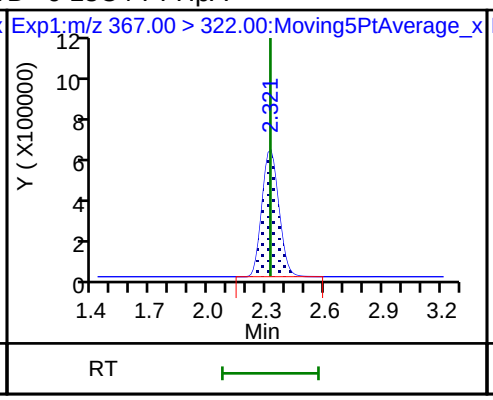
D 64 13C3 HFPO-DA



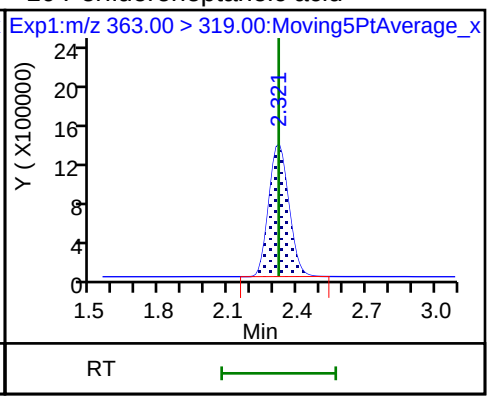
67 Perfluoro(2-propoxypropanoic) acid



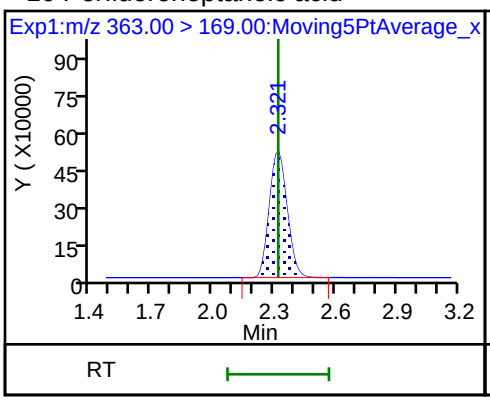
D 9 13C4-PFHpA



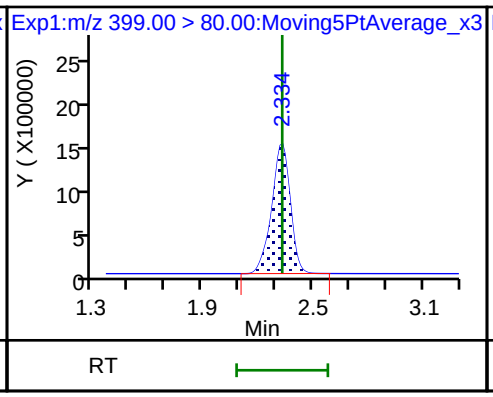
10 Perfluoroheptanoic acid



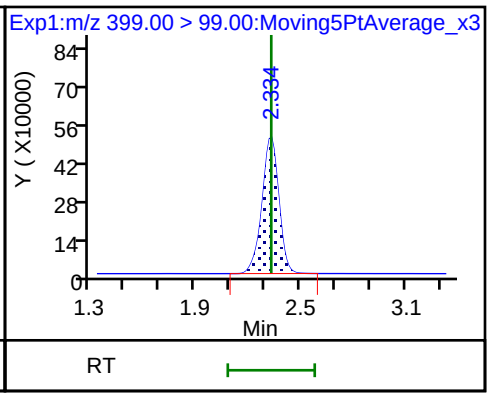
10 Perfluoroheptanoic acid



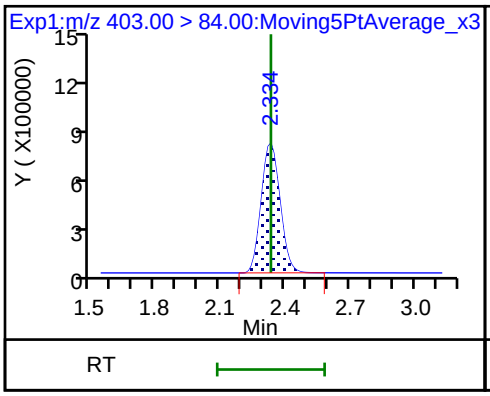
8 Perfluorohexanesulfonic acid



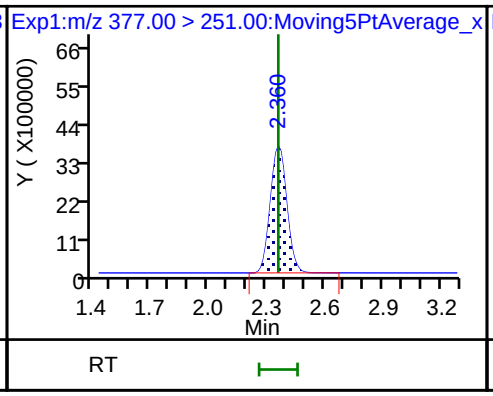
8 Perfluorohexanesulfonic acid



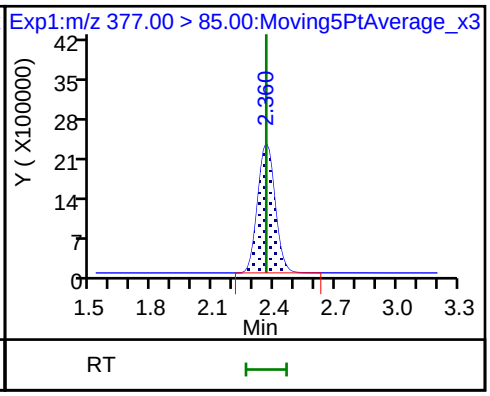
D 11 18O2 PFHxS



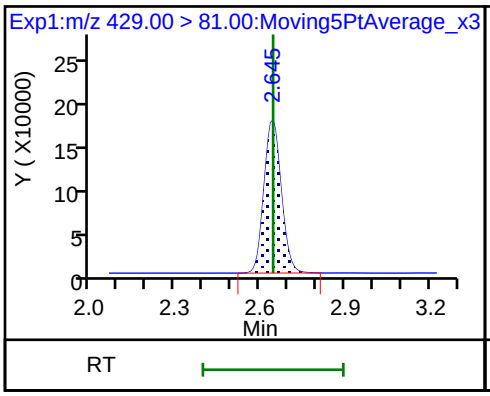
65 Adona



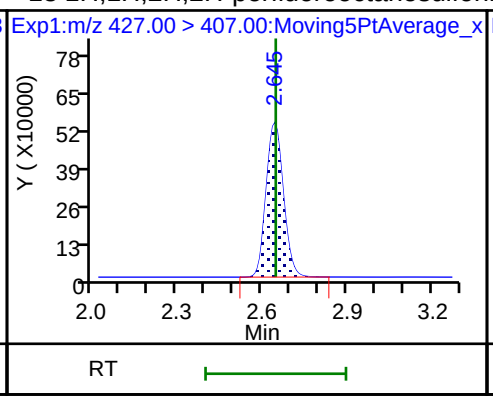
65 Adona



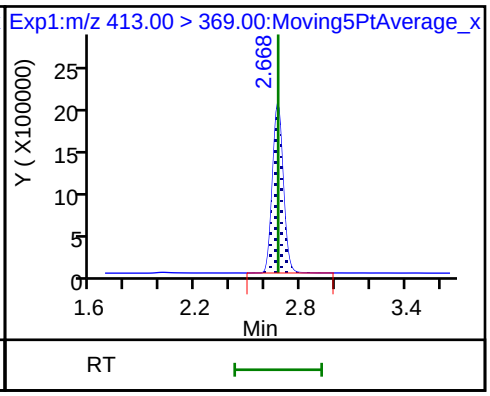
D 12 M2-6:2FTS



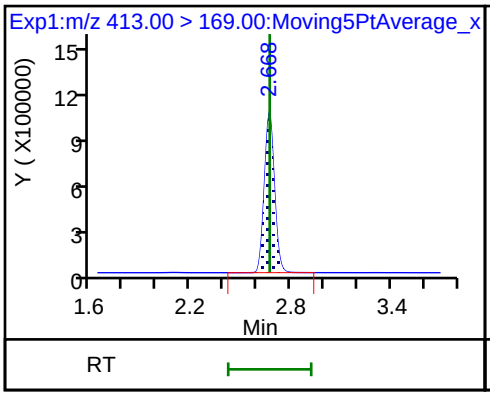
13 1H,1H,2H,2H-perfluorooctanesulfoni



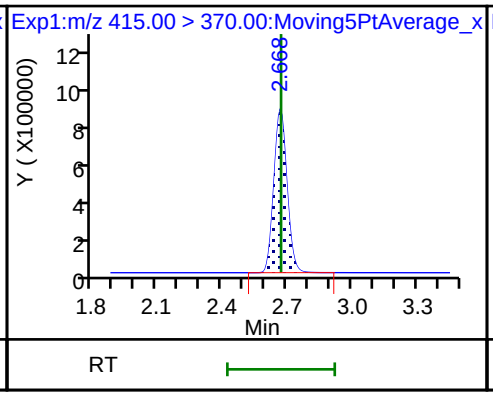
15 Perfluorooctanoic acid



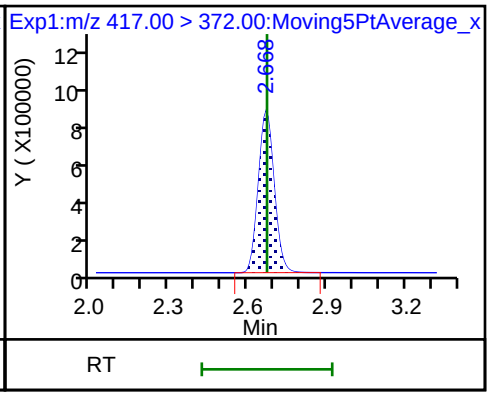
15 Perfluorooctanoic acid



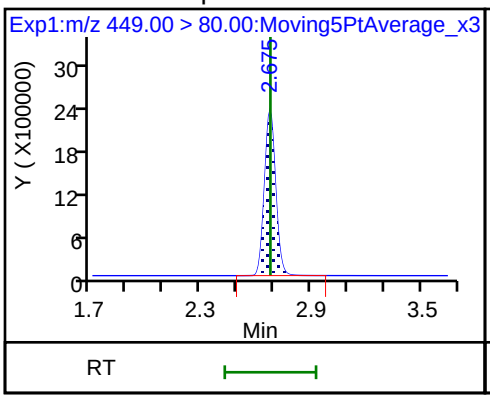
* 62 13C2-PFOA



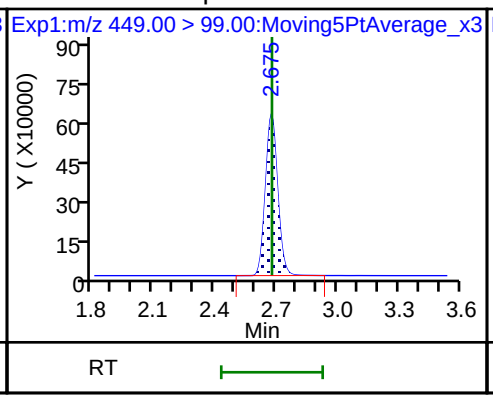
D 14 13C4 PFOA



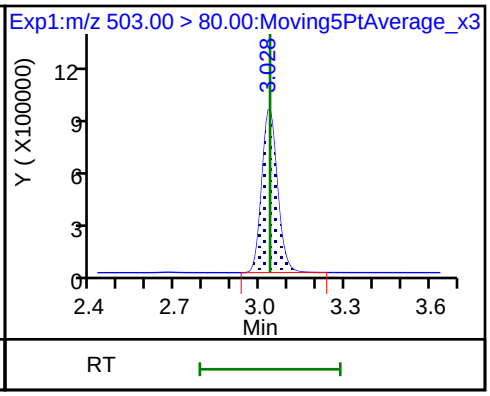
16 Perfluoroheptanesulfonic acid



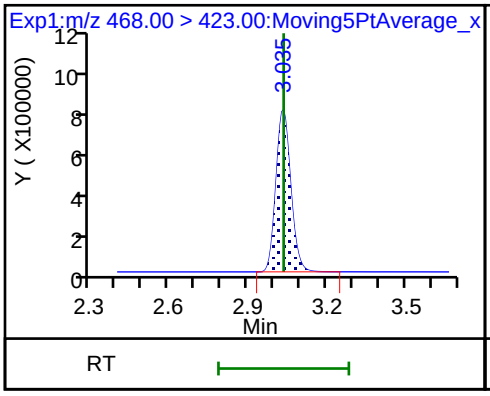
16 Perfluoroheptanesulfonic acid



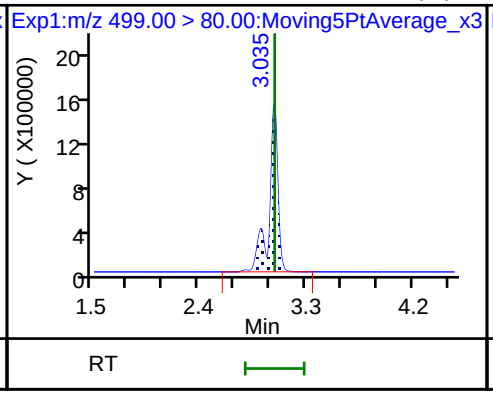
D 18 13C4 PFOS



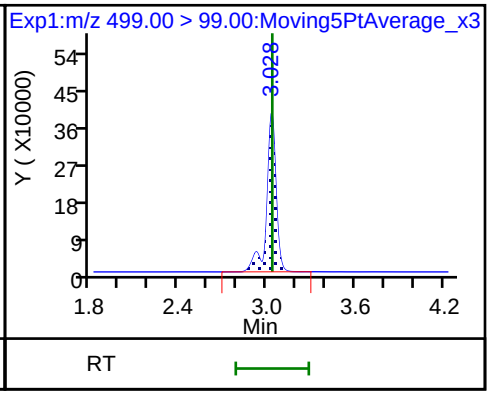
D 19 13C5 PFNA



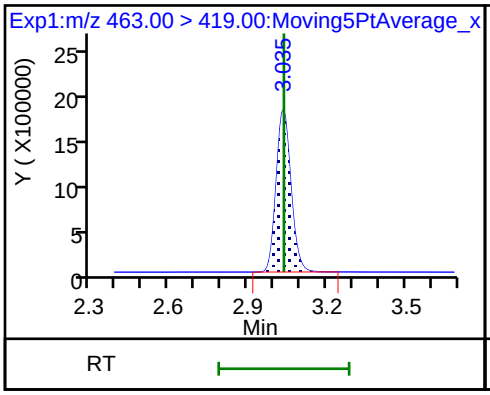
17 Perfluorooctane sulfonic acid (M)



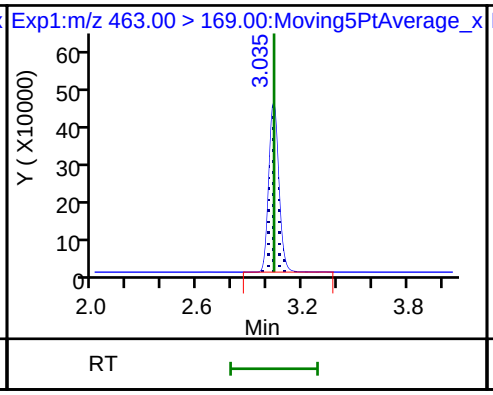
17 Perfluorooctane sulfonic acid



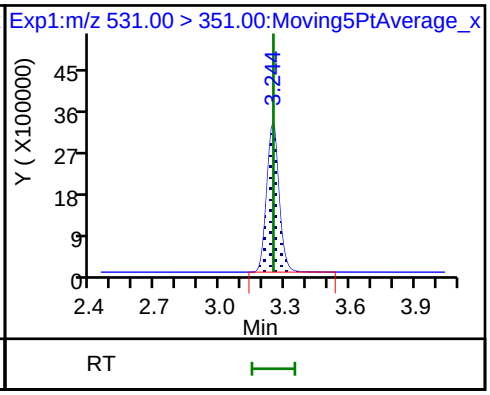
20 Perfluorononanoic acid



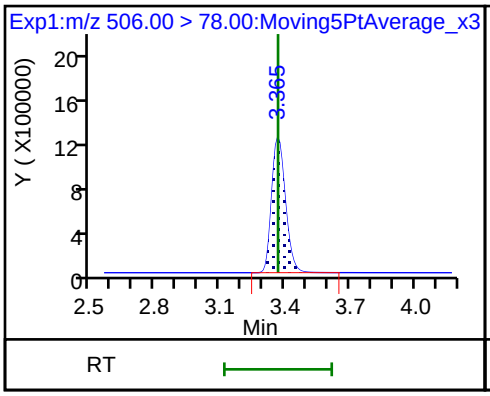
20 Perfluorononanoic acid



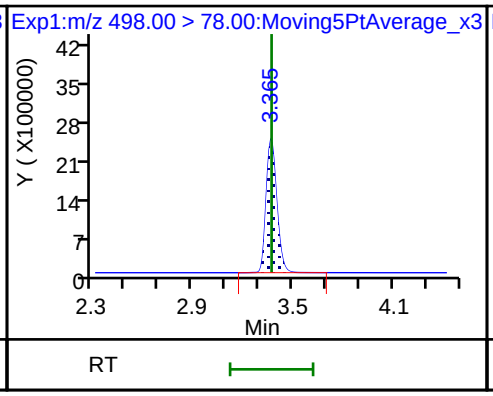
69 9-Chlorohexadecafluoro-3-oxanonane



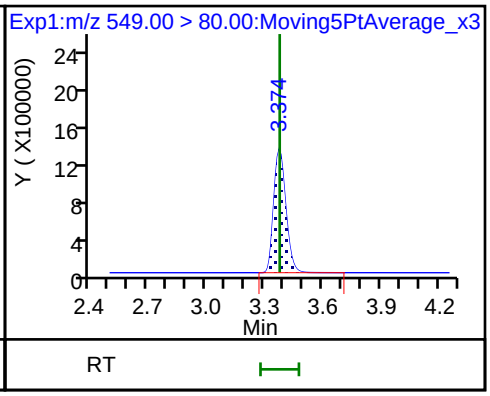
D 21 13C8 FOSA



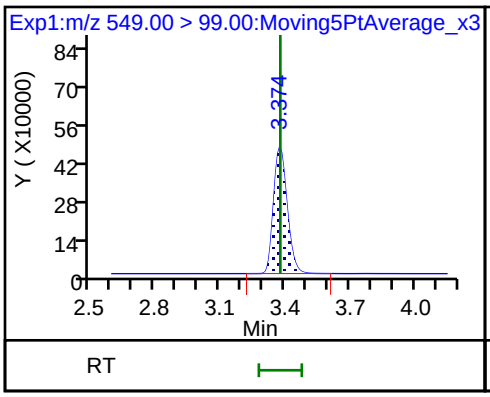
22 Perfluorooctane Sulfonamide



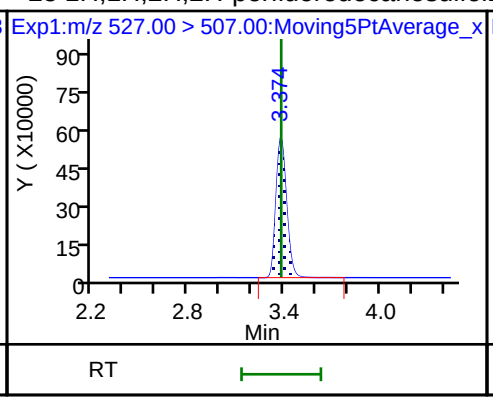
68 Perfluorononanesulfonic acid



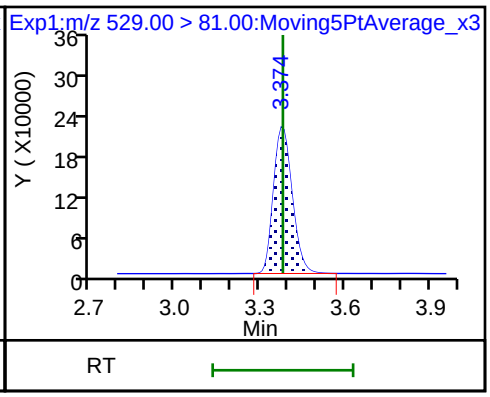
68 Perfluorononanesulfonic acid



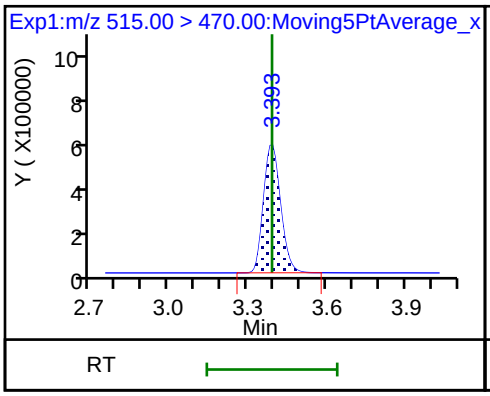
25 1H,1H,2H,2H-perfluorodecanesulfon



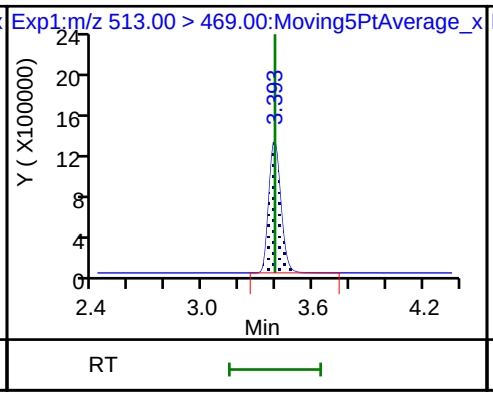
D 26 M2-8:2FTS



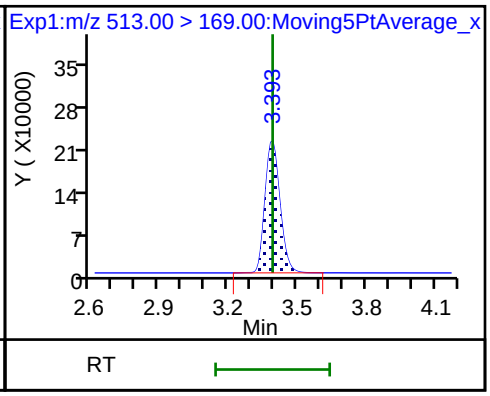
D 23 13C2 PFDA



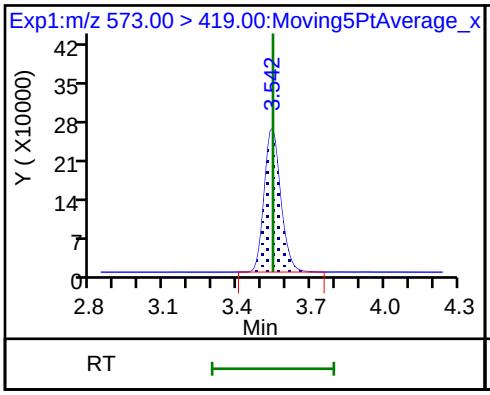
24 Perfluorodecanoic acid



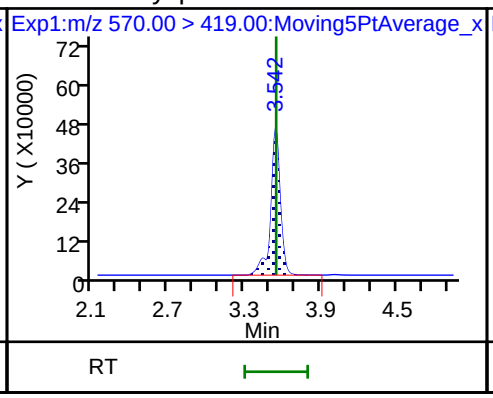
24 Perfluorodecanoic acid



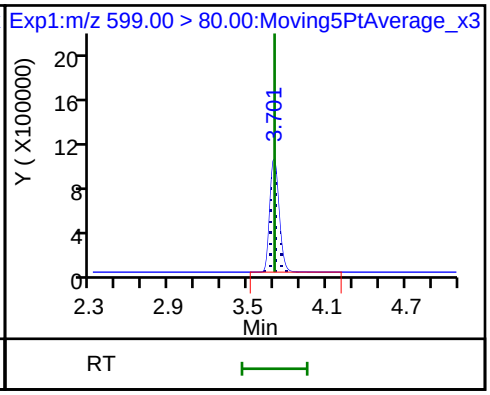
D 27 d3-NMeFOSAA



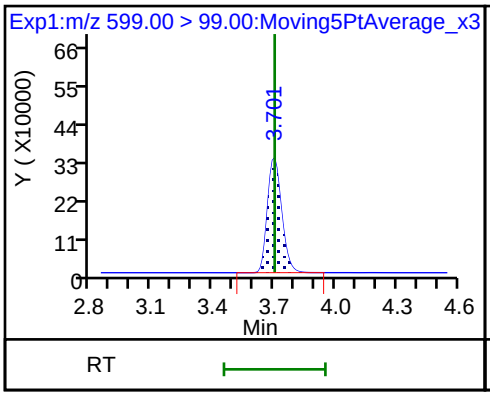
28 N-methyl perfluorooctane sulfonami



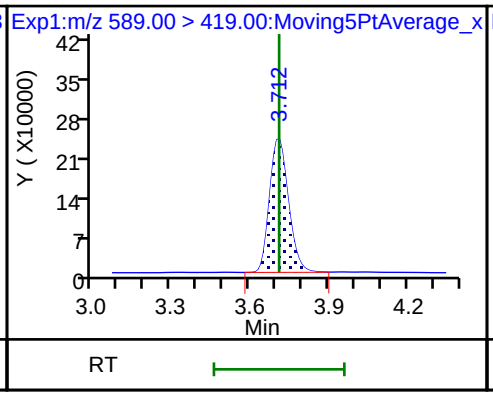
29 Perfluorodecane Sulfonic acid



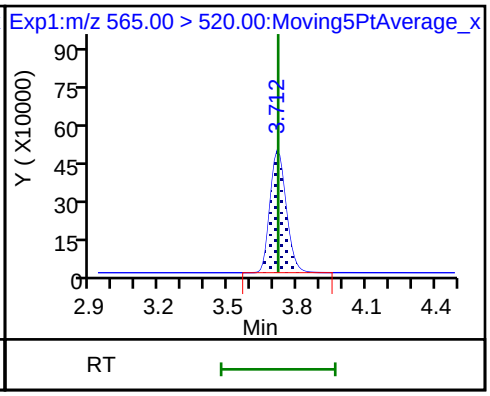
29 Perfluorodecane Sulfonic acid



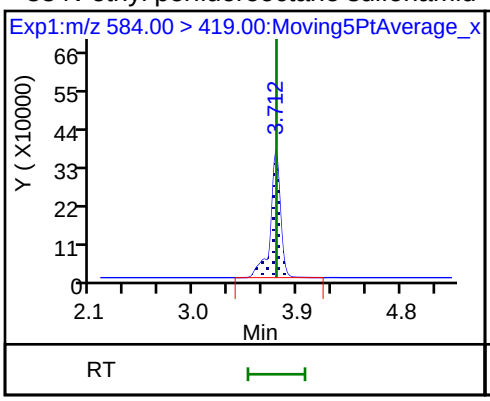
D 32 d5-NEtFOSAA



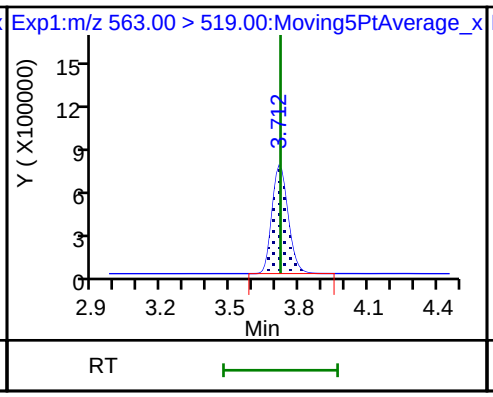
D 30 13C2 PFUnA



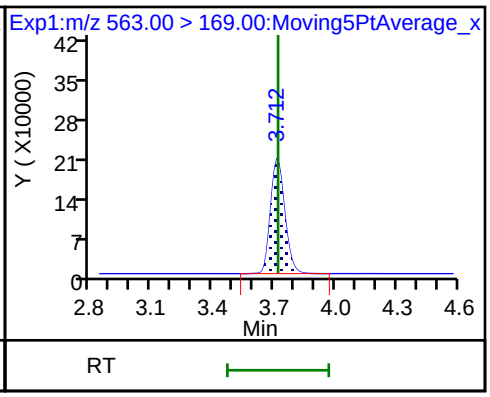
33 N-ethyl perfluorooctane sulfonamid



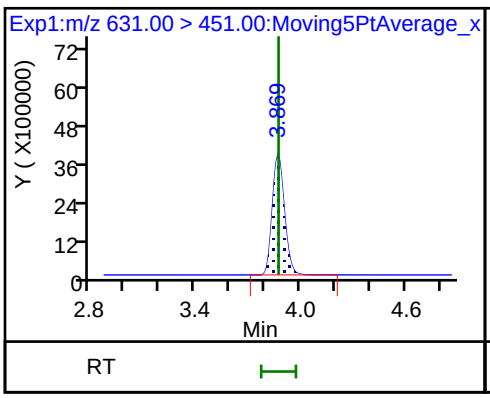
31 Perfluoroundecanoic acid



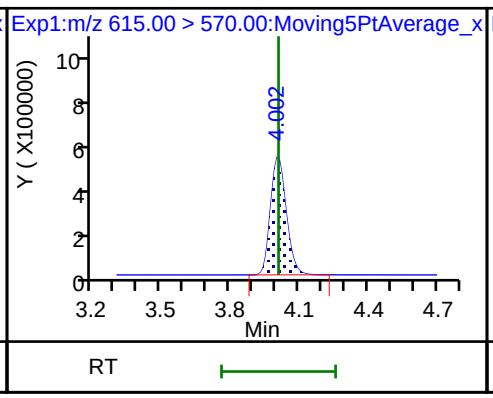
31 Perfluoroundecanoic acid



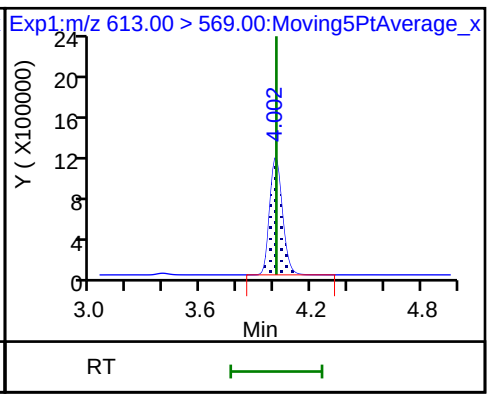
66 11-Chloroeicosafluoro-3-oxaundecan



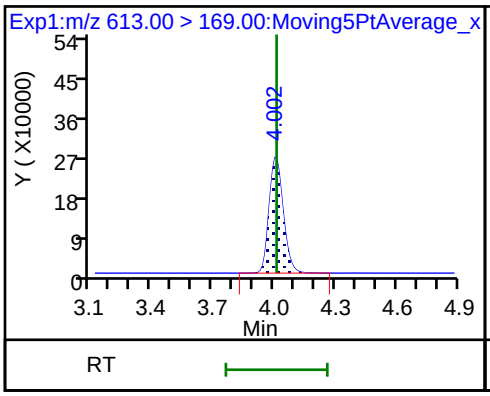
D 36 13C2 PFDoA



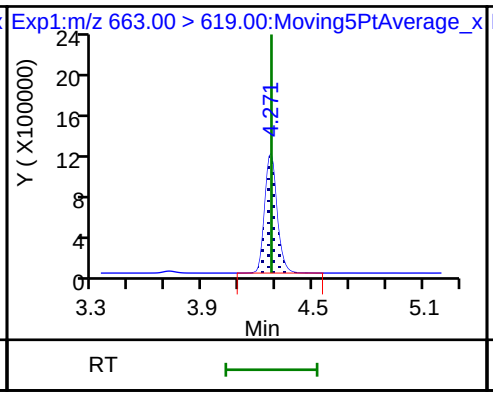
37 Perfluorododecanoic acid



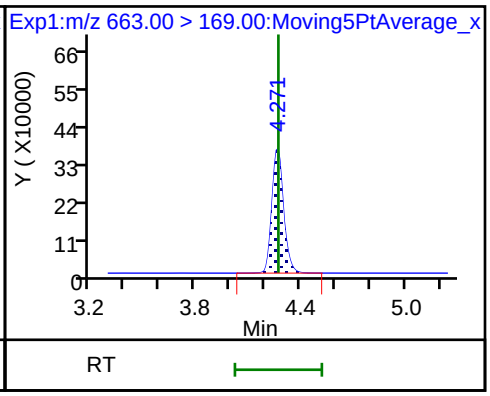
37 Perfluorododecanoic acid



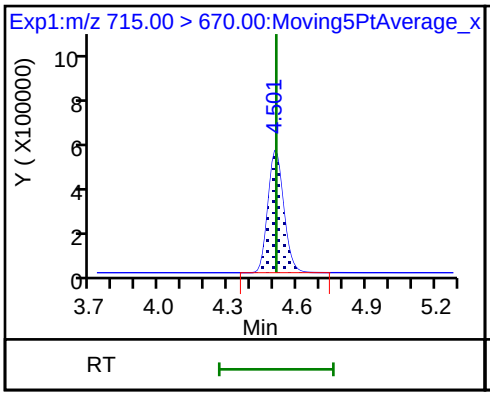
41 Perfluorotridecanoic acid



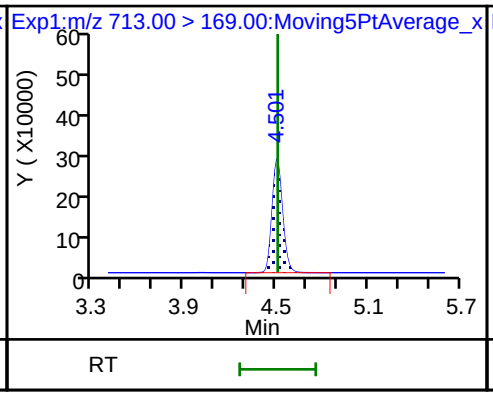
41 Perfluorotridecanoic acid



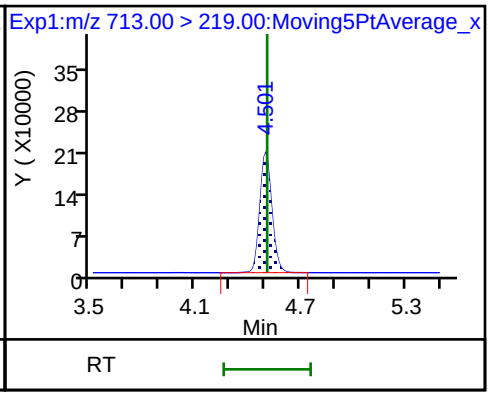
D 43 13C2-PFTeDA



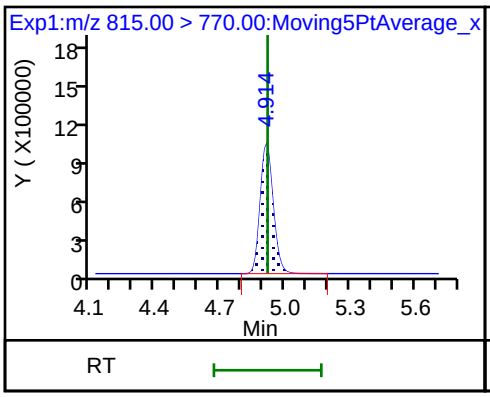
42 Perfluorotetradecanoic acid



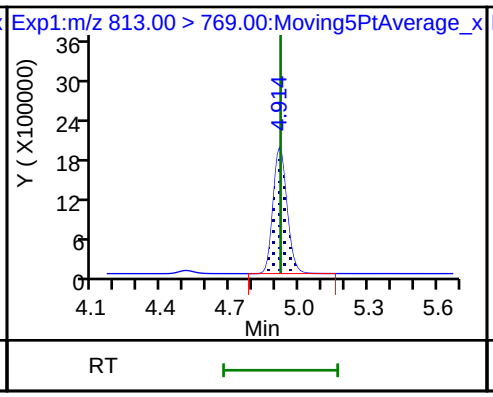
42 Perfluorotetradecanoic acid



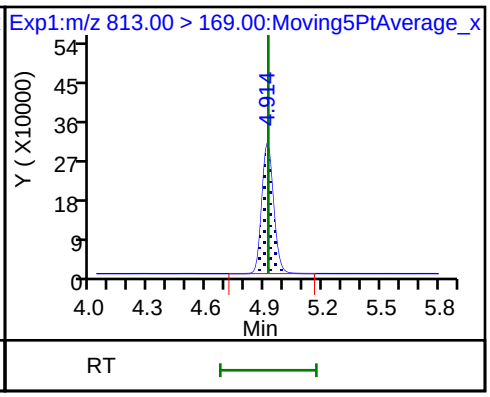
D 44 13C2-PFHxDA



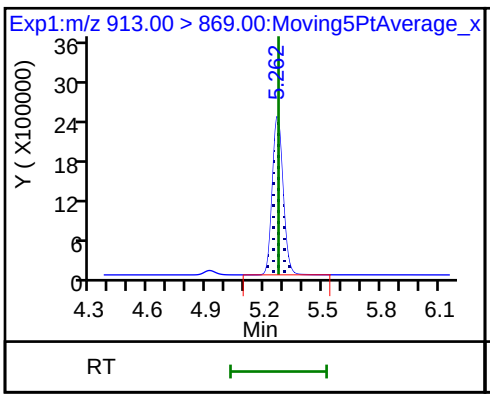
45 Perfluorohexadecanoic acid



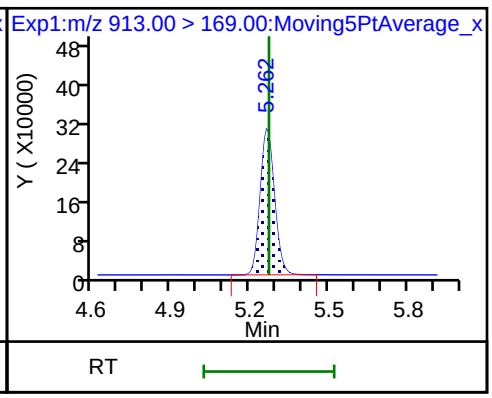
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

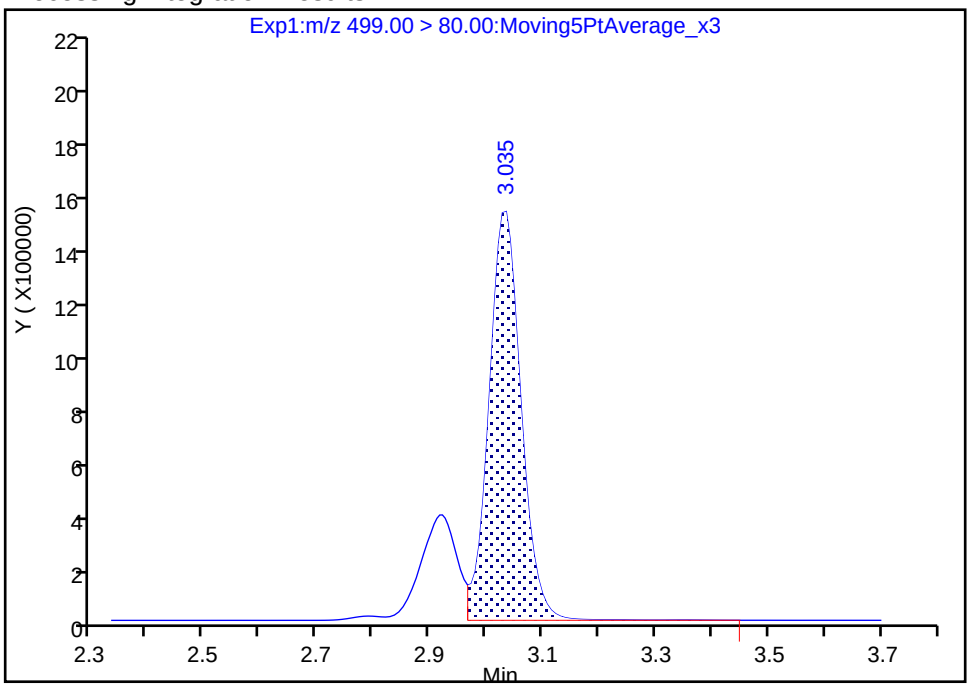
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_007.d
Injection Date: 11-Jul-2018 15:30:51 Instrument ID: A8_N
Lims ID: IC L6 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 15 Worklist Smp#: 7
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

17 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 1

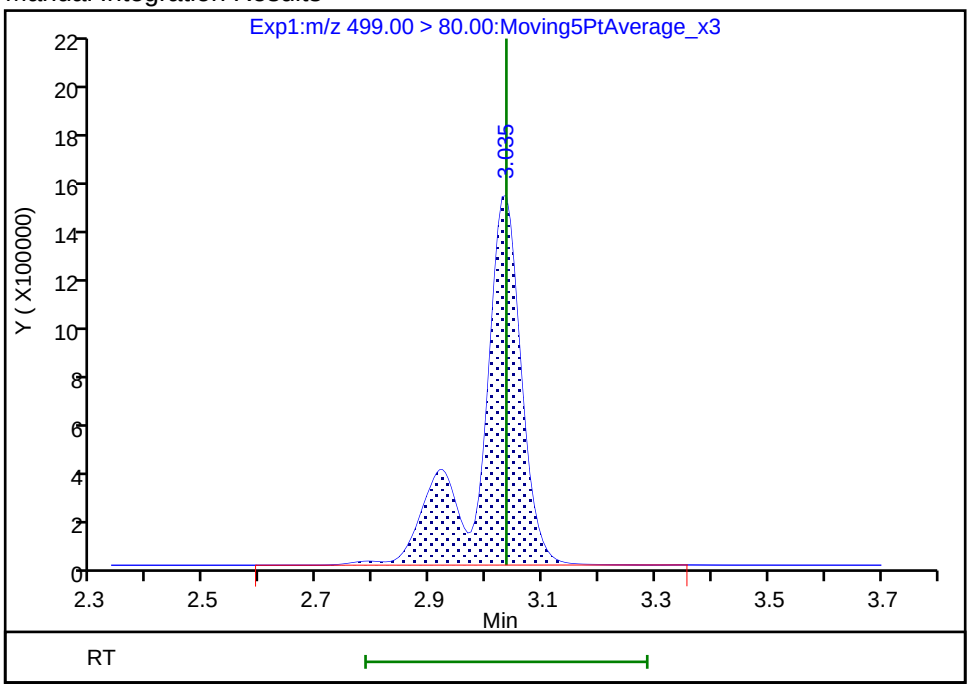
Processing Integration Results

RT: 3.04
Area: 6040692
Amount: 3.698173
Amount Units: ng/ml



Manual Integration Results

RT: 3.04
Area: 7822689
Amount: 4.633497
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:16:50
Audit Action: Manually Integrated Audit Reason: Isomers

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d
Lims ID: IC L7 Full
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 11-Jul-2018 15:38:42 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: L7-FULL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:33:54 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:17:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.430	1.431	-0.001	0.536	5781235	2.84		114	46738	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.430	1.431	-0.001	1.000	22835400	10.0		100	8382	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.702	0.010	1.000	17766142	9.44		94.4	8701	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.702	0.010	0.641	3880280	2.75		110	51803	
D 47 13C3-PFBS										
301.90 > 83.00	1.757	1.748	0.009	0.658	93739	2.64		113	603	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.751	0.006	1.000	25119744	8.14		92.1	143878	
298.90 > 99.00	1.757	1.751	0.006	1.000	11268668		2.23(1.25-3.74)	92.1	90842	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.962	-0.002	1.116	4685101	8.94		95.7	120229	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.962	-0.002	0.734	476788	2.50		107	7861	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.996	-0.003	0.747	4142603	2.72		109	52582	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.998	-0.005	1.000	16543784	9.70		97.0	39030	
313.00 > 119.00	1.993	1.998	-0.005	1.000	1555324		10.64(5.03-15.10)	97.0	39292	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.022	0.005	1.154	23955798	8.51		90.8	231016	
349.00 > 99.00	2.016	2.022	-0.006	1.147	9657203		2.48(1.36-4.07)	90.8	85549	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.093	0.002	0.785	310846	2.86		115	9564	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.095	0.0	1.000	3276527	9.93		99.3	16809	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.319	0.002	0.869	3701454	2.63		105	41327	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.319	0.002	1.000	16011091	9.35		93.5	22967	
363.00 > 169.00	2.321	2.319	0.002	1.000	6469605		2.47(1.13-3.40)	93.5	37203	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.334	2.332	0.002	1.000	20622639	8.72		95.8	27789	
399.00 > 99.00	2.334	2.332	0.002	1.000	7136072		2.89(1.50-4.49)	95.8	21998	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.334	0.0	0.874	4872001	2.45		103	48134	
65 Adona										
377.00 > 251.00	2.360	2.360	0.0	0.779	37073934	7.05		74.9	260552	
377.00 > 85.00	2.360	2.360	0.0	0.779	24804188		1.49(0.84-2.53)	74.9	72896	
D 12 M2-6:2FTS										
429.00 > 81.00	2.638	2.645	-0.007	0.988	704932	2.34		98.5	9224	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.638	2.648	-0.010	1.000	4726825	10.2		107	43601	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.670	2.672	-0.002	1.000	16291262	9.05		90.4	9267	
413.00 > 169.00	2.670	2.672	-0.002	1.000	8897459		1.83(0.84-2.52)	90.4	24139	
* 62 13C2-PFOA										
415.00 > 370.00	2.670	2.672	-0.002		3749283	2.50			40966	
D 14 13C4 PFOA										
417.00 > 372.00	2.670	2.672	-0.002	1.000	3653899	2.55		102	33275	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.677	2.678	-0.001	0.883	18718055	8.70		91.4	123136	
449.00 > 99.00	2.677	2.678	-0.001	0.883	5255453		3.56(1.94-5.82)	91.4	44840	
D 18 13C4 PFOS										
503.00 > 80.00	3.030	3.034	-0.004	1.135	3902400	2.67		112	14520	
D 19 13C5 PFNA										
468.00 > 423.00	3.030	3.035	-0.005	1.135	3292167	2.57		103	44769	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.030	3.035	-0.005	1.000	16622900	8.98		96.8	45805	
499.00 > 99.00	3.030	3.035	-0.005	1.000	3752707		4.43(2.31-6.93)	96.8	30387	
20 Perfluorononanoic acid										
463.00 > 419.00	3.030	3.036	-0.006	1.000	13910795	9.52		95.2	26218	
463.00 > 169.00	3.030	3.036	-0.006	1.000	3390503		4.10(1.90-5.69)	95.2	43123	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.239	3.245	-0.006	1.069	25098628	8.37		89.8	130574	
D 21 13C8 FOSA										
506.00 > 78.00	3.359	3.367	-0.008	1.258	5176580	2.46		98.3	36605	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.369	3.371	-0.002	1.003	19718955	9.66		96.6	48650	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.369	3.377	-0.008	1.112	11760635	9.29		96.8	59229	
549.00 > 99.00	3.369	3.377	-0.008	1.112	4506833		2.61(1.33-3.97)	96.8	46788	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.378	3.380	-0.002	1.000	4682146	9.80		102	45616	
D 26 M2-8:2FTS										
529.00 > 81.00	3.378	3.380	-0.002	1.265	887172	2.01		84.1	13566	
D 23 13C2 PFDA										
515.00 > 470.00	3.387	3.391	-0.004	1.269	2747254	2.44		97.7	29354	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.387	3.392	-0.005	1.000	11148372	9.67		96.7	46551	
513.00 > 169.00	3.387	3.392	-0.005	1.000	2093801		5.32(2.36-7.09)	96.7	35818	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.537	3.544	-0.007	1.325	1276287	2.77		111	18519	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.546	3.548	-0.002	1.003	5272635	10.5		105	26104	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.696	3.701	-0.005	1.220	10109747	9.22		95.7	233743	
599.00 > 99.00	3.696	3.701	-0.005	1.220	3655780		2.77(1.39-4.16)	95.7	30607	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.707	3.710	-0.003	1.389	1167600	2.47		98.9	3307	
D 30 13C2 PFUnA										
565.00 > 520.00	3.718	3.716	0.002	1.393	2308936	2.46		98.3	35962	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.718	3.718	0.0	1.003	4325460	10.5		105	77837	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.718	3.718	0.0	1.000	7405393	9.78		97.8	31141	
563.00 > 169.00	3.718	3.718	0.0	1.000	1896631		3.90(2.12-6.36)	97.8	38242	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.865	3.874	-0.009	1.275	33050828	7.63		81.0	319283	
D 36 13C2 PFDoA										
615.00 > 570.00	4.008	4.009	-0.001	1.501	2588991	2.66		106	20112	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.008	4.011	-0.003	1.000	11295646	9.99		99.9	7110	
613.00 > 169.00	4.008	4.011	-0.003	1.000	2749190		4.11(2.13-6.40)	99.9	27189	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.271	4.273	-0.002	1.066	10874073	9.83		98.3	5262	
663.00 > 169.00	4.271	4.273	-0.002	1.066	3405769		3.19(1.25-3.76)	98.3	29341	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.508	-0.007	1.686	2753301	2.72		109	11657	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.508	-0.007	1.000	2903345	10.1		101	18043	
713.00 > 219.00	4.501	4.508	-0.007	1.000	2052712		1.41(0.71-2.13)	101	16519	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.841	4200183	2.61		104	13126	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	15144158	9.46		94.6	3241	
813.00 > 169.00	4.914	4.918	-0.004	1.000	2640854		5.73(2.86-8.58)	94.6	12585	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.271	-0.008	1.071	17950029	9.35		93.5	2884	
913.00 > 169.00	5.263	5.271	-0.008	1.071	2356290		7.62(3.83-11.48)	93.5	10762	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL7_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:33:56 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Injection Date: 11-Jul-2018 15:38:42 Instrument ID: A8_N

Lims ID: IC L7 Full

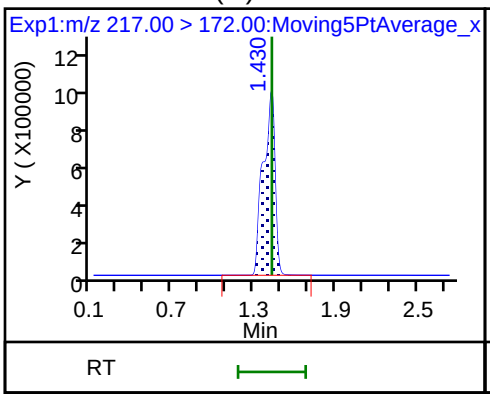
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8

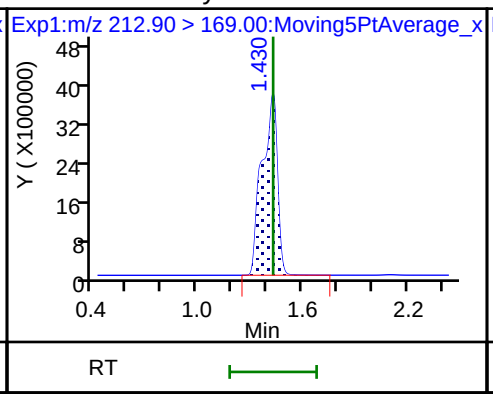
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

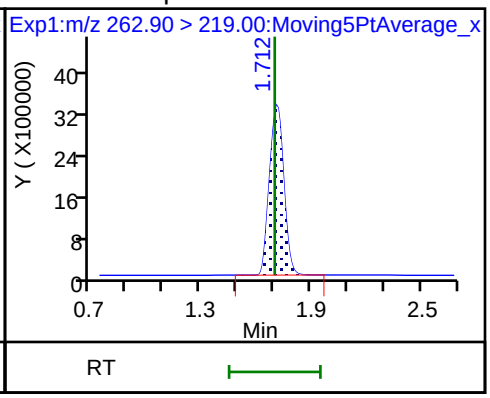
D 1 13C4 PFBA (M)



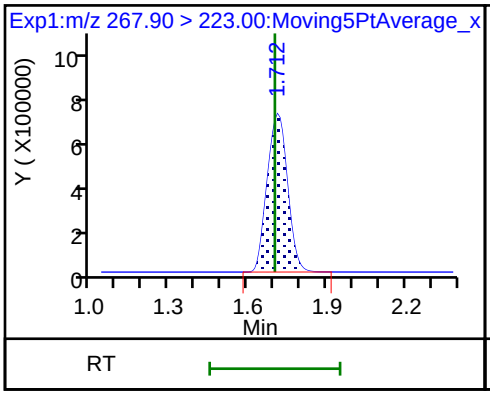
2 Perfluorobutyric acid



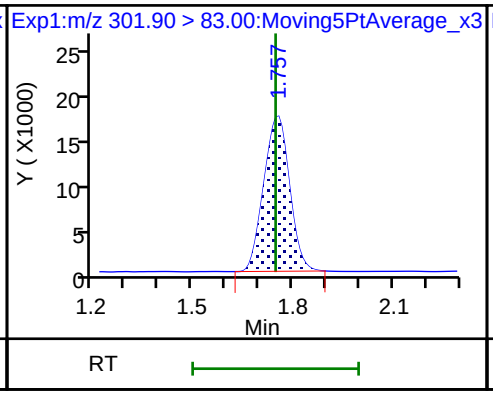
4 Perfluoropentanoic acid



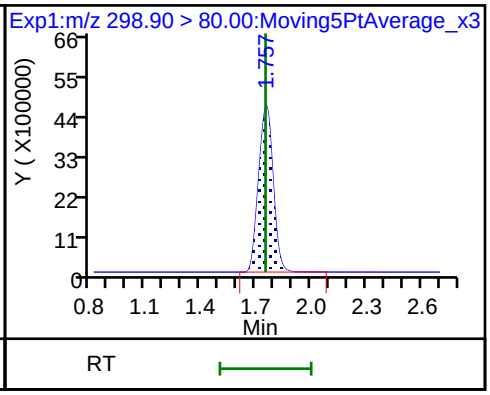
D 3 13C5-PFPeA



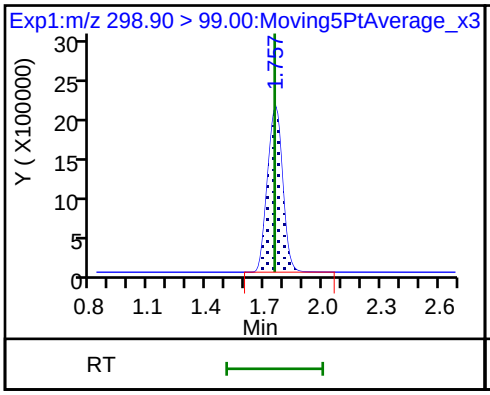
D 47 13C3-PFBS



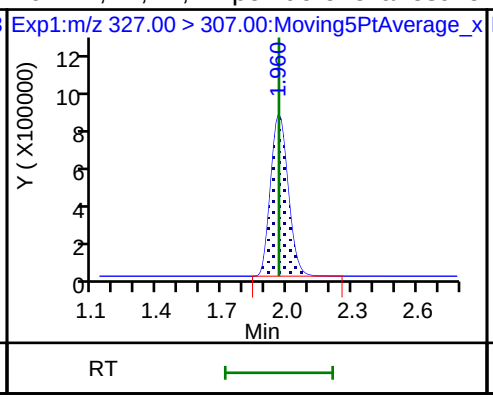
5 Perfluorobutanesulfonic acid



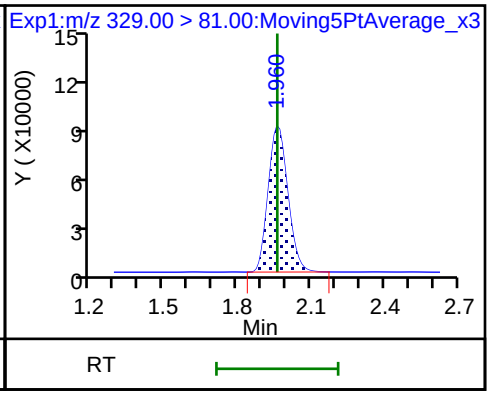
5 Perfluorobutanesulfonic acid



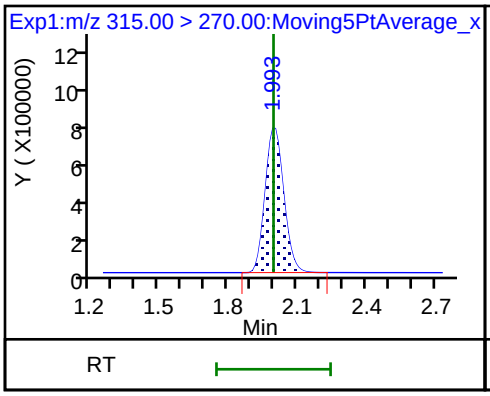
61 1H,1H,2H,2H-perfluorohexanesulfon



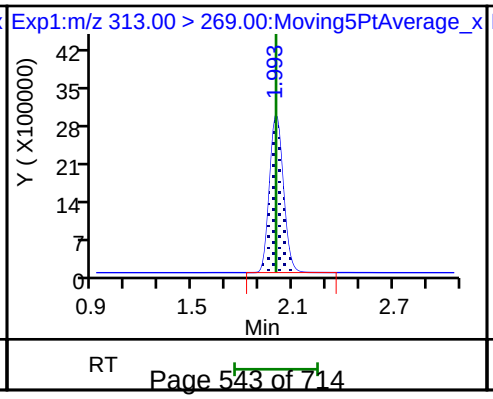
D 60 M2-4:2FTS



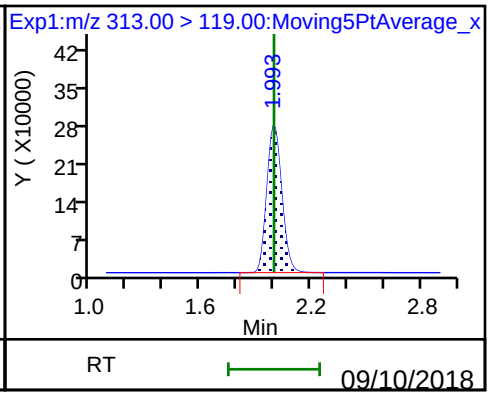
D 7 13C2 PFHxA



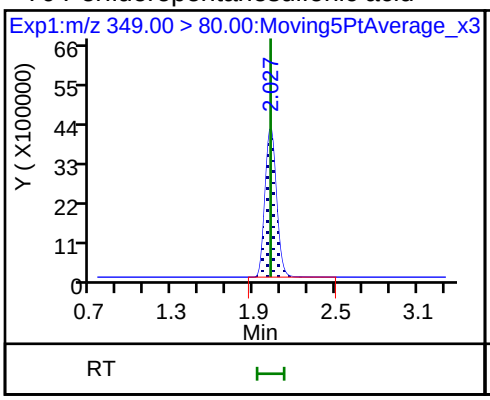
6 Perfluorohexanoic acid



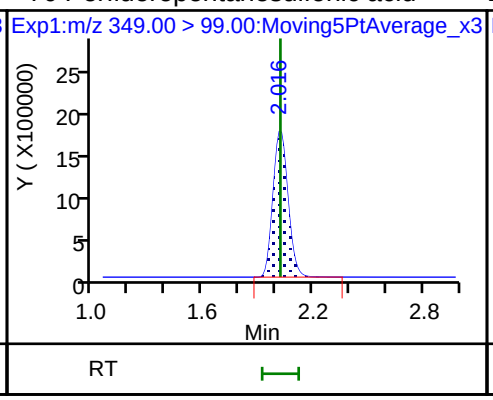
6 Perfluorohexanoic acid



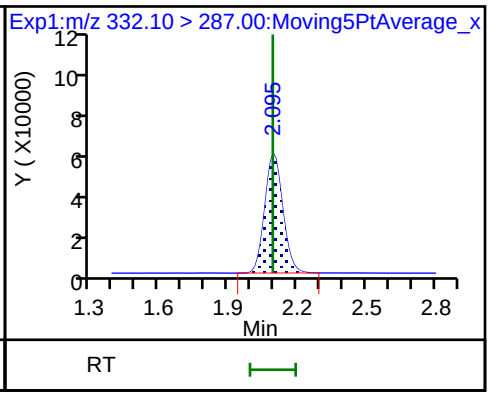
70 Perfluoropentanesulfonic acid



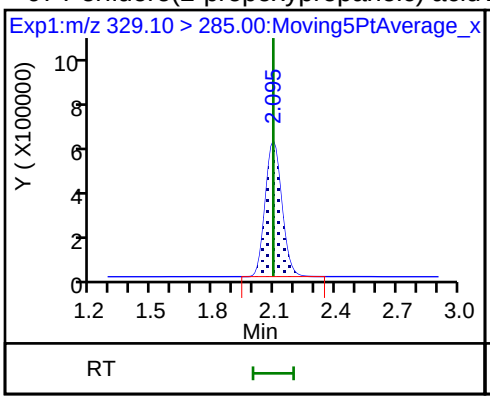
70 Perfluoropentanesulfonic acid



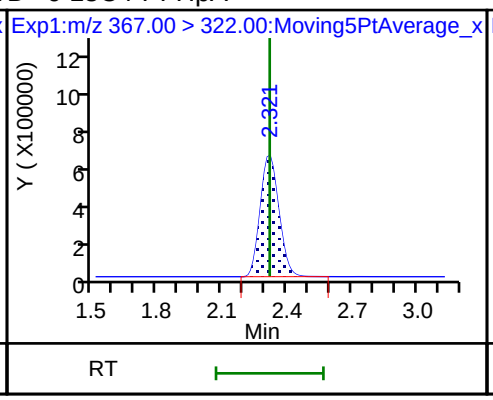
D 64 13C3 HFPO-DA



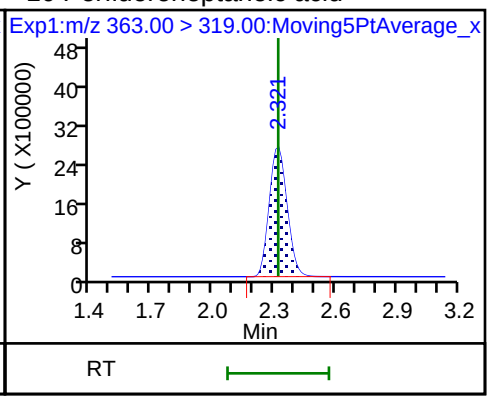
67 Perfluoro(2-propoxypropanoic) acid



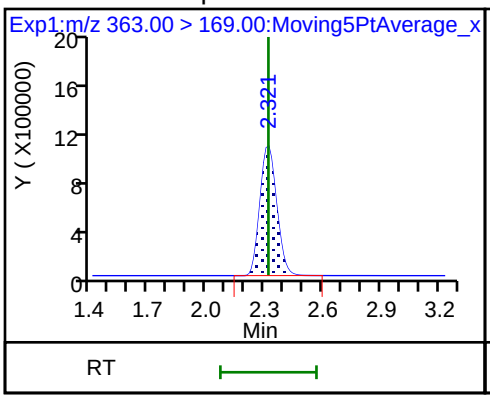
D 9 13C4-PFHpA



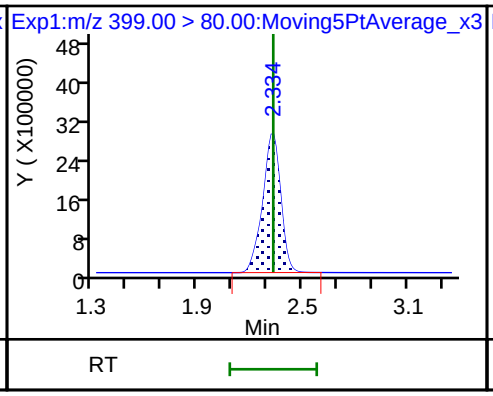
10 Perfluoroheptanoic acid



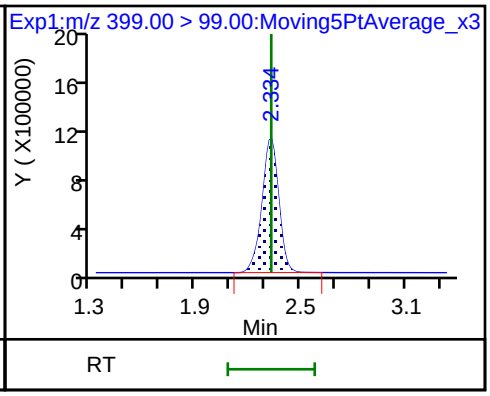
10 Perfluoroheptanoic acid



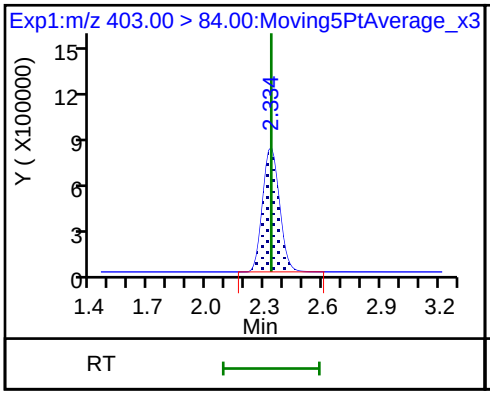
8 Perfluorohexanesulfonic acid



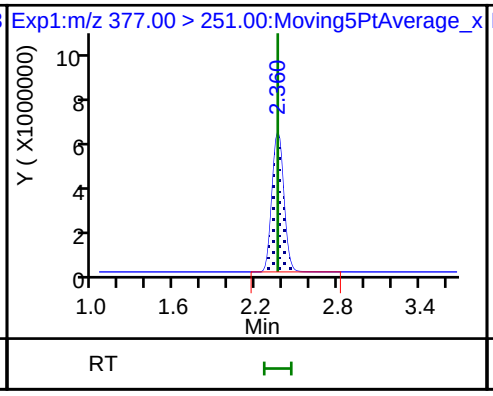
8 Perfluorohexanesulfonic acid



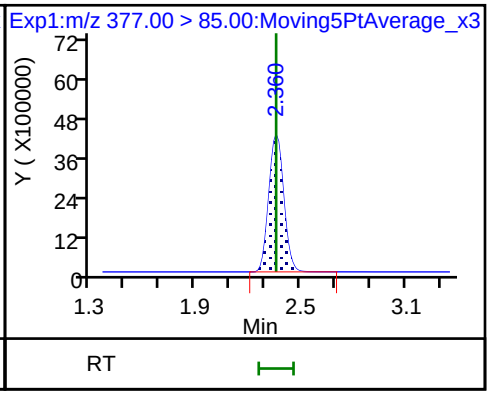
D 11 18O2 PFHxS



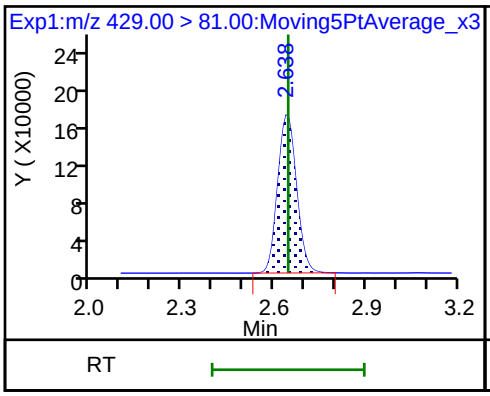
65 Adona



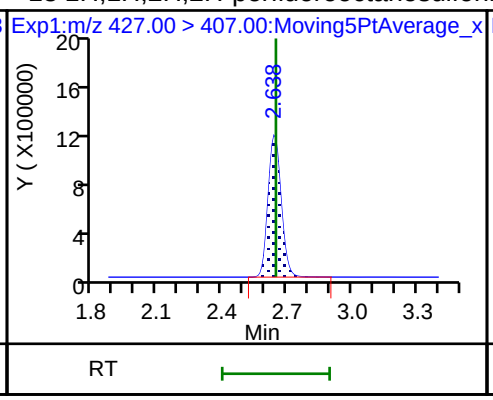
65 Adona



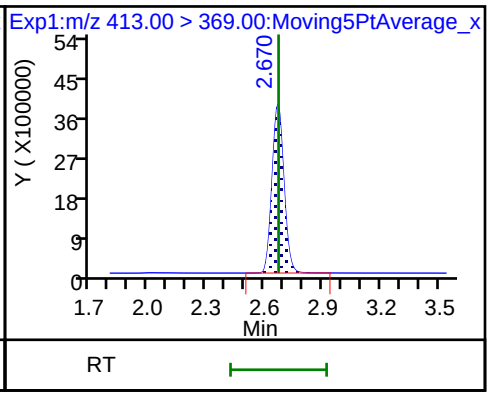
D 12 M2-6:2FTS



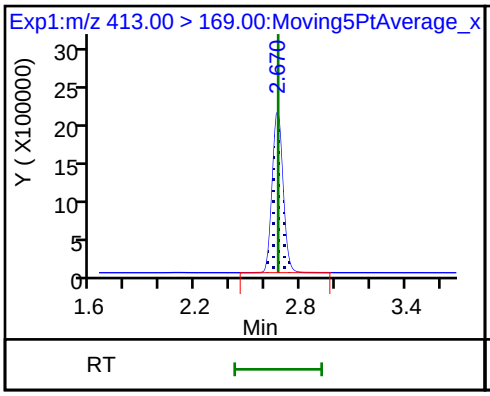
13 1H,1H,2H,2H-perfluorooctanesulfoni



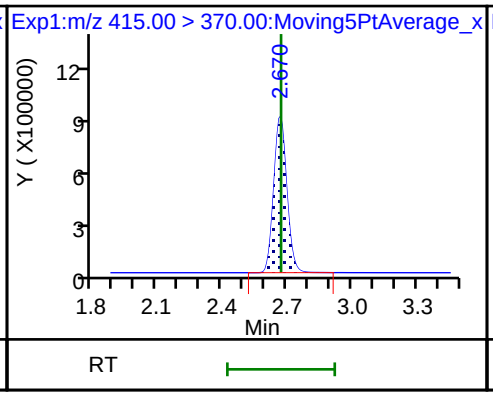
15 Perfluorooctanoic acid



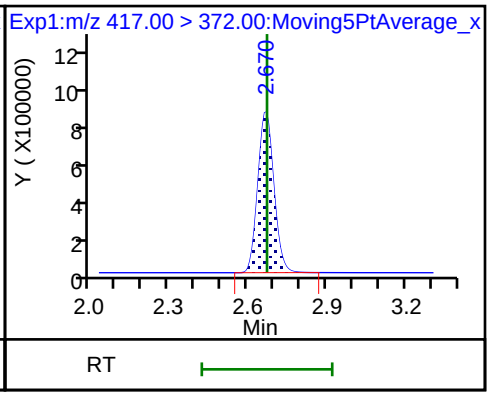
15 Perfluorooctanoic acid



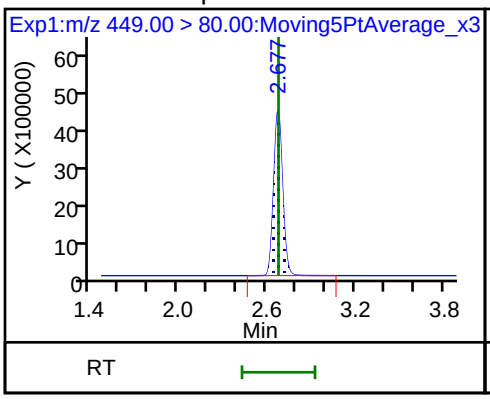
* 62 13C2-PFOA



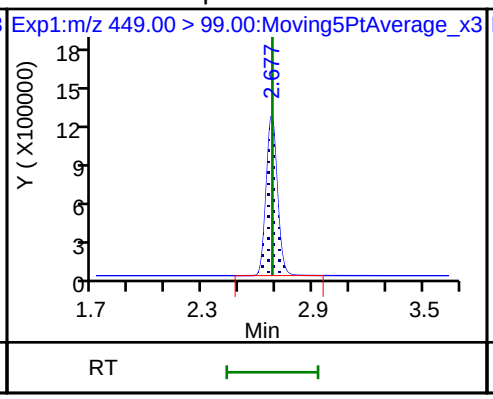
D 14 13C4 PFOA



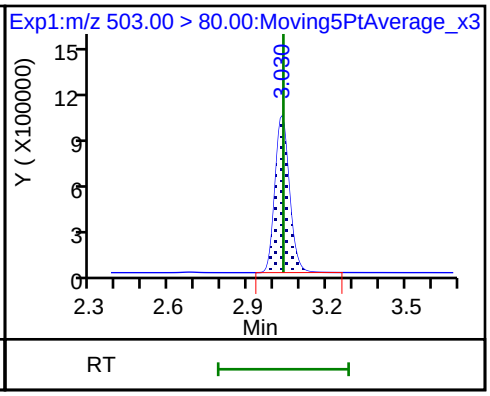
16 Perfluoroheptanesulfonic acid



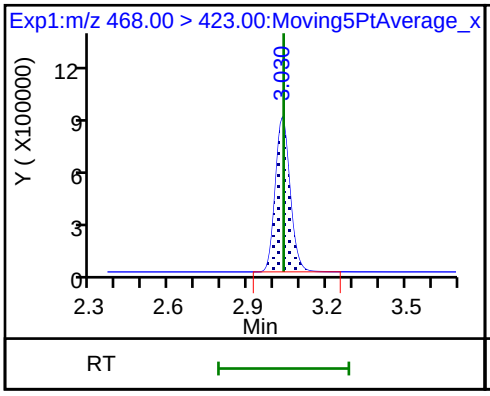
16 Perfluoroheptanesulfonic acid



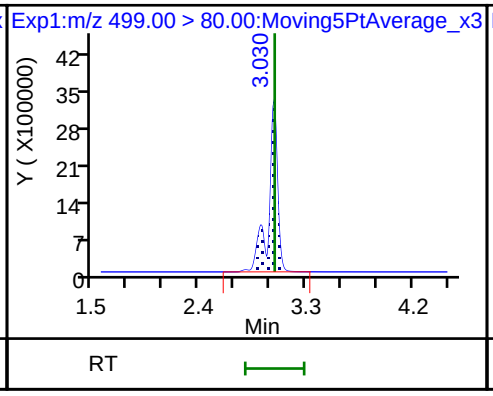
D 18 13C4 PFOS



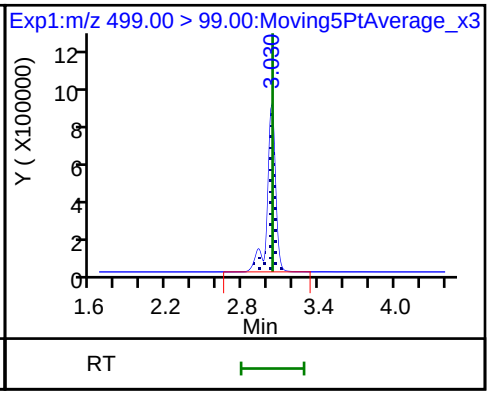
D 19 13C5 PFNA



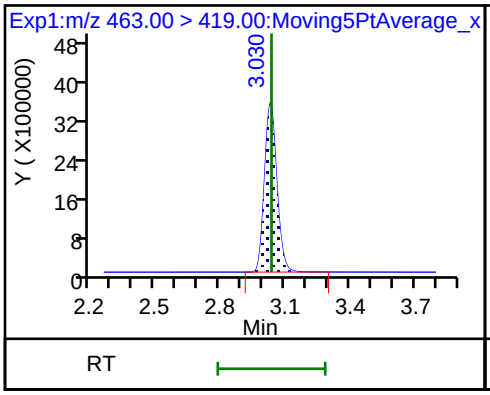
17 Perfluorooctane sulfonic acid



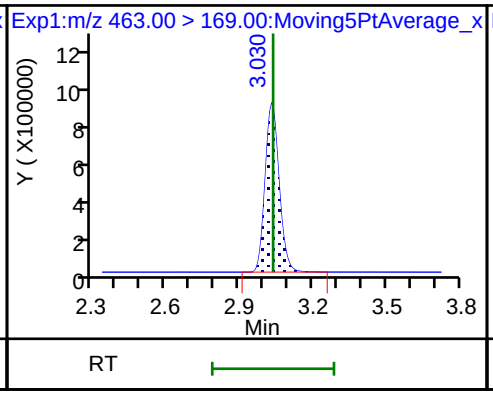
17 Perfluorooctane sulfonic acid



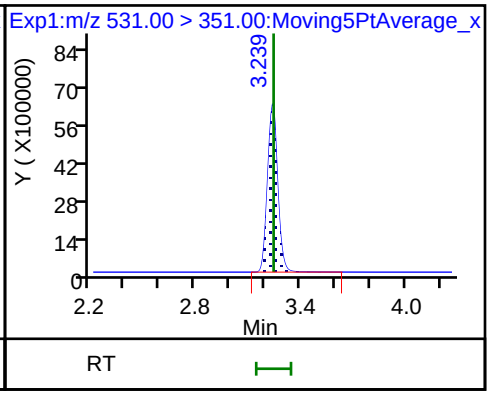
20 Perfluorononanoic acid



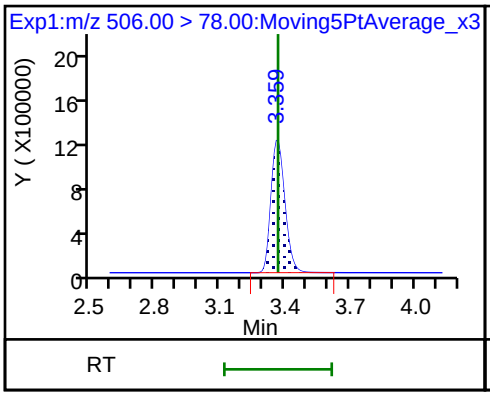
20 Perfluorononanoic acid



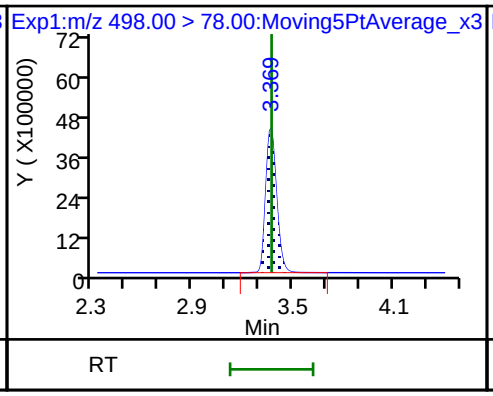
69 9-Chlorohexadecafluoro-3-oxanonane



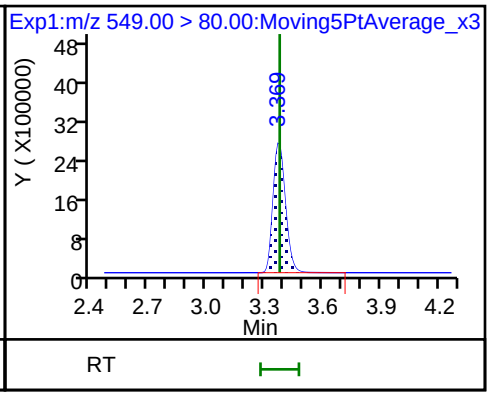
D 21 13C8 FOSA



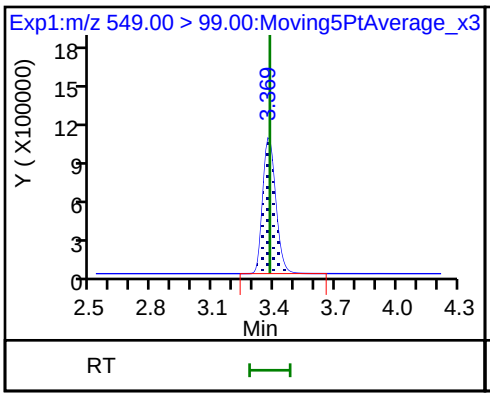
22 Perfluorooctane Sulfonamide



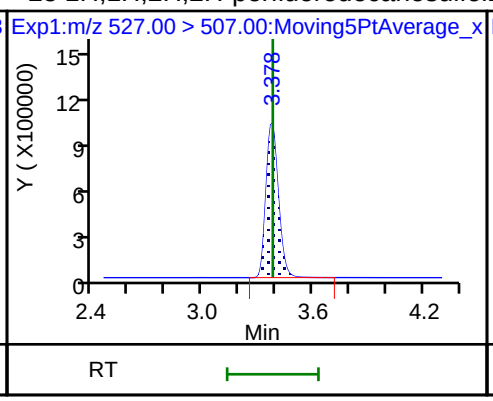
68 Perfluorononanesulfonic acid



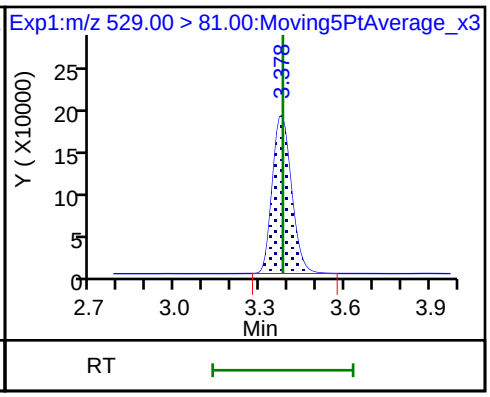
68 Perfluorononanesulfonic acid



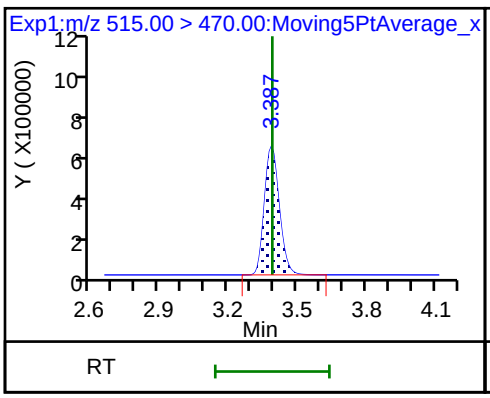
25 1H,1H,2H,2H-perfluorodecanesulfon



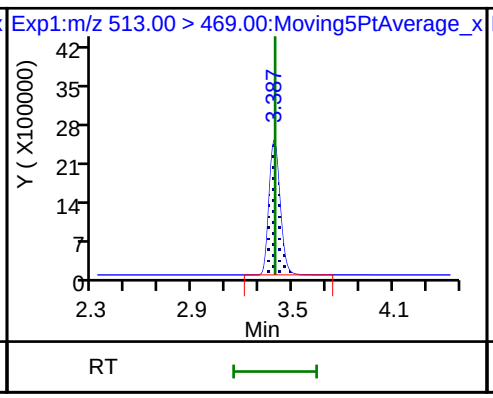
D 26 M2-8:2FTS



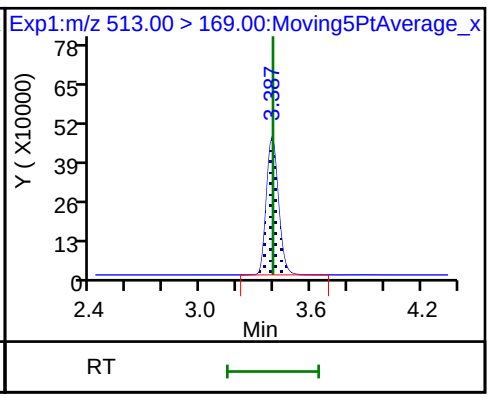
D 23 13C2 PFDA



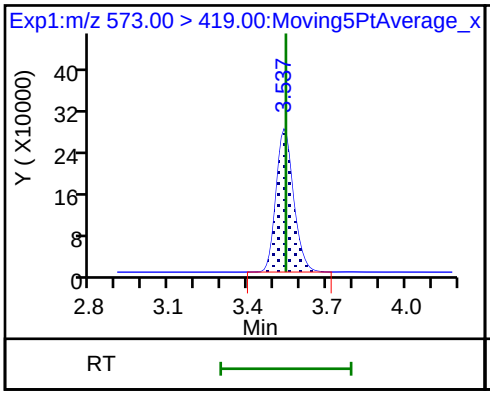
24 Perfluorodecanoic acid



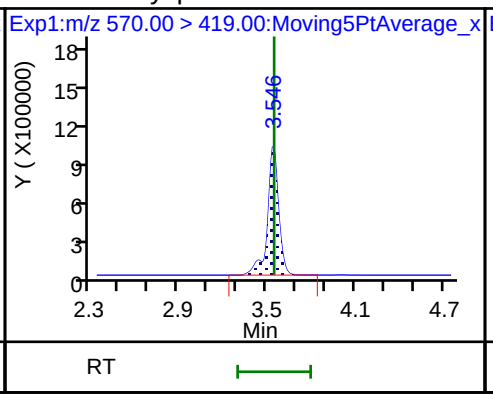
24 Perfluorodecanoic acid



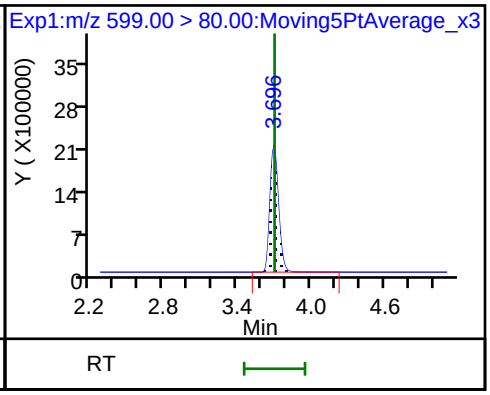
D 27 d3-NMeFOSAA



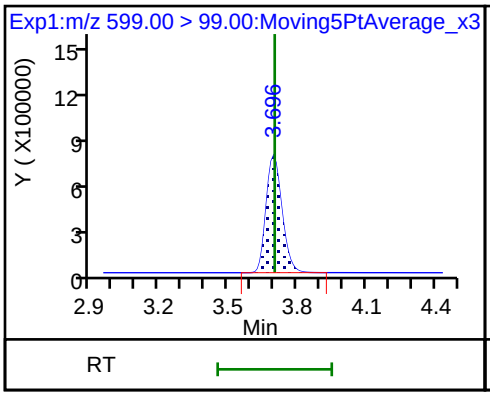
28 N-methyl perfluorooctane sulfonami



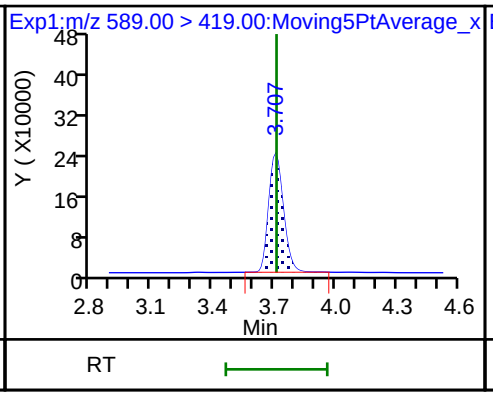
29 Perfluorodecane Sulfonic acid



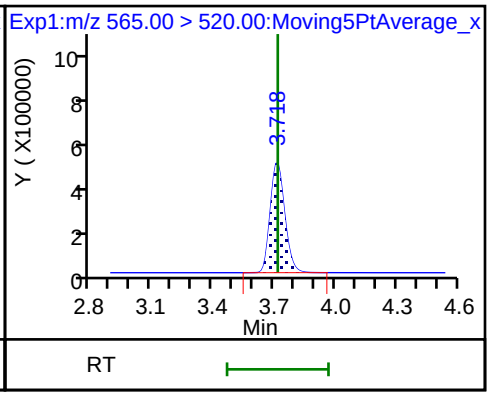
29 Perfluorodecane Sulfonic acid



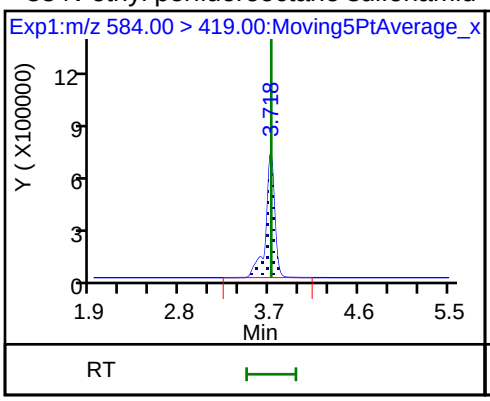
D 32 d5-NEtFOSAA



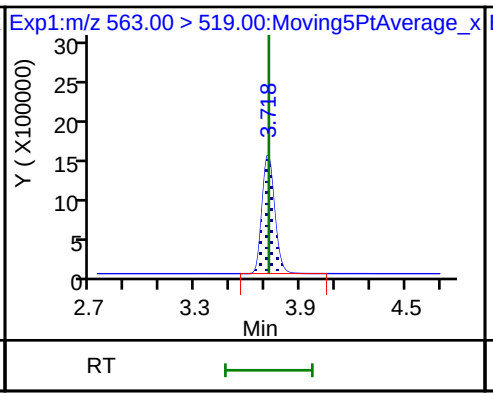
D 30 13C2 PFUnA



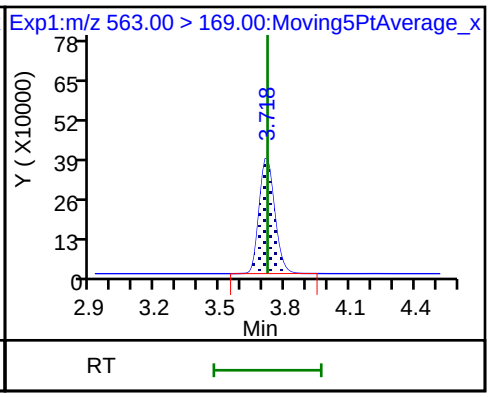
33 N-ethyl perfluorooctane sulfonamid



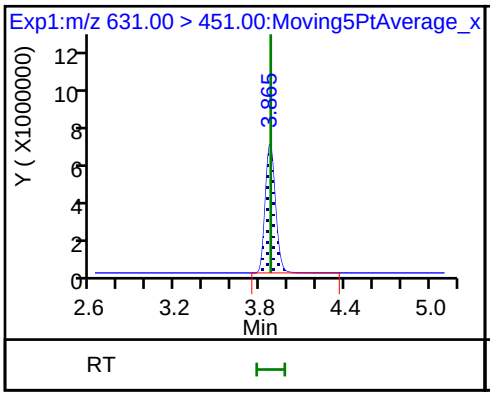
31 Perfluoroundecanoic acid



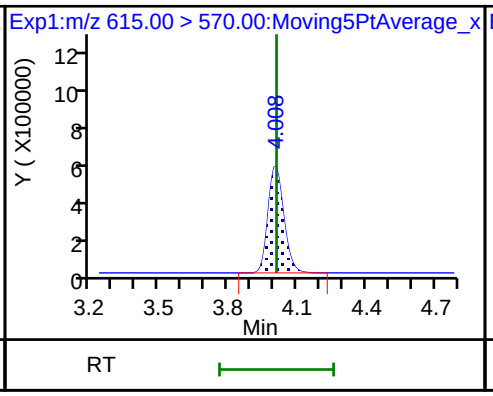
31 Perfluoroundecanoic acid



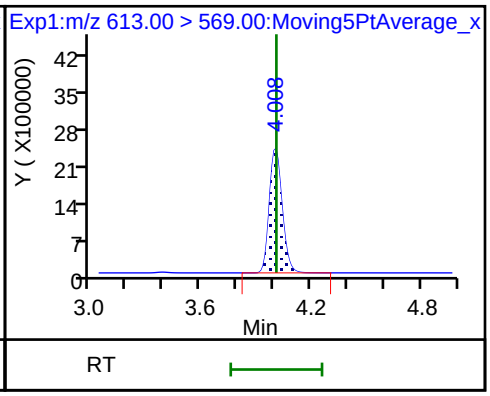
66 11-Chloroeicosafluoro-3-oxaundecan



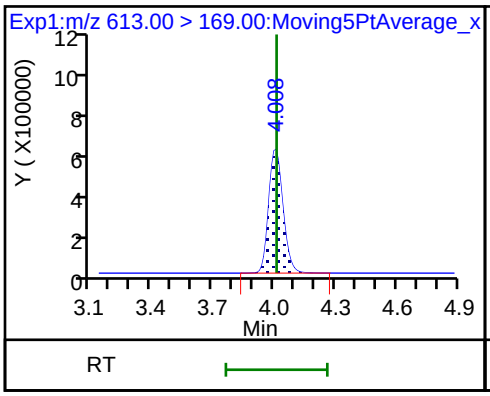
D 36 13C2 PFDoA



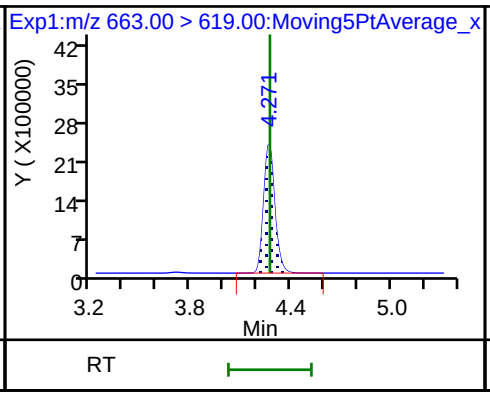
37 Perfluorododecanoic acid



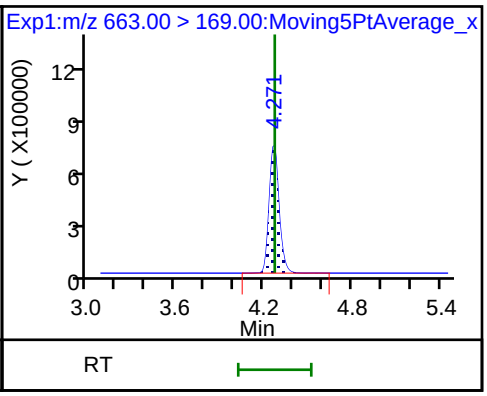
37 Perfluorododecanoic acid



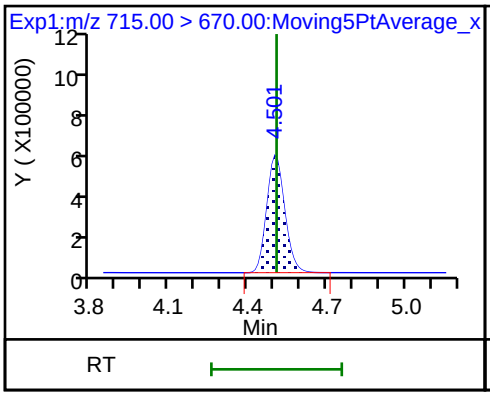
41 Perfluorotridecanoic acid



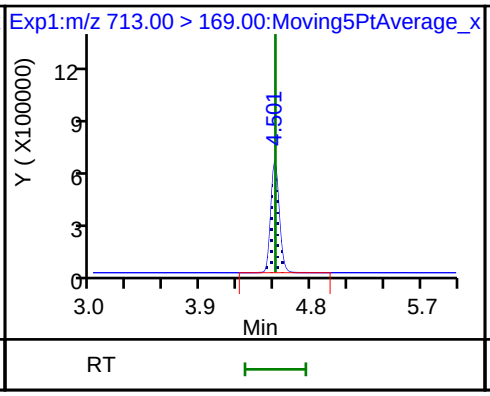
41 Perfluorotridecanoic acid



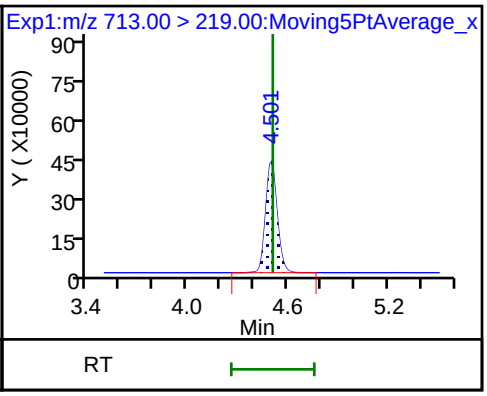
D 43 13C2-PFTeDA



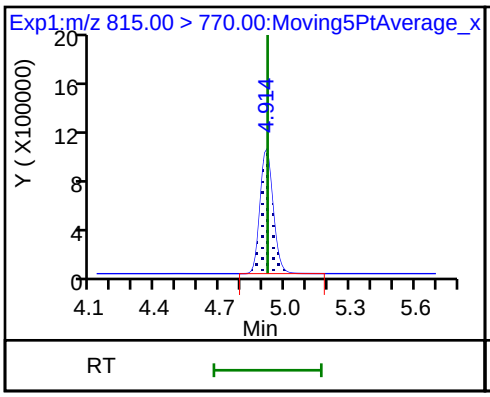
42 Perfluorotetradecanoic acid



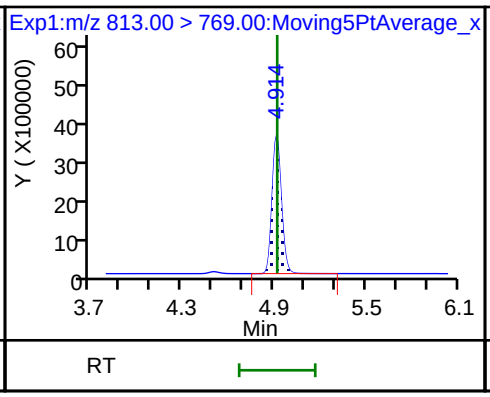
42 Perfluorotetradecanoic acid



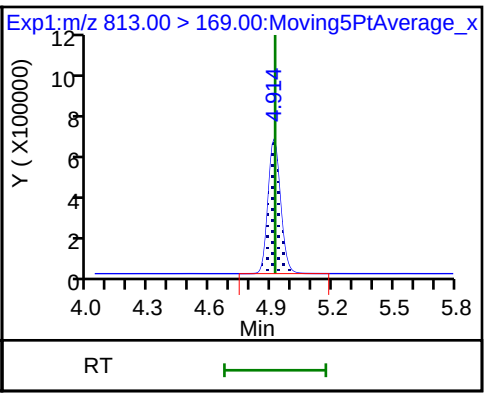
D 44 13C2-PFHxDA



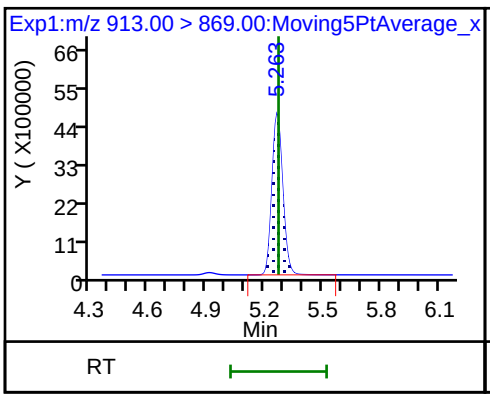
45 Perfluorohexadecanoic acid



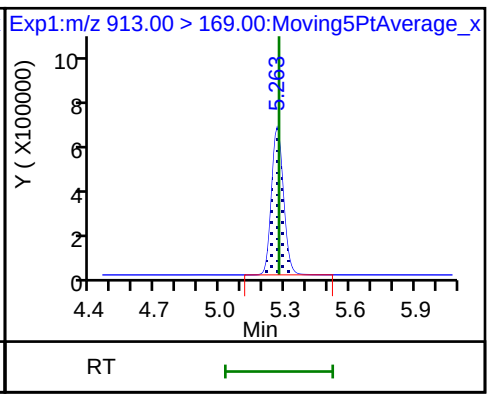
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

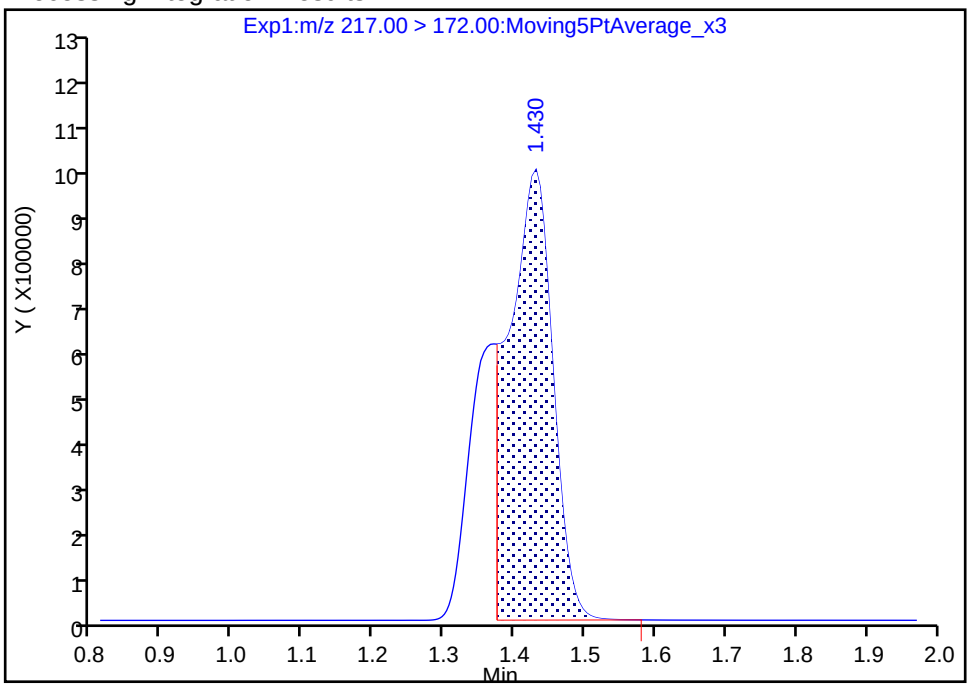
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d
Injection Date: 11-Jul-2018 15:38:42 Instrument ID: A8_N
Lims ID: IC L7 Full
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 16 Worklist Smp#: 8
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

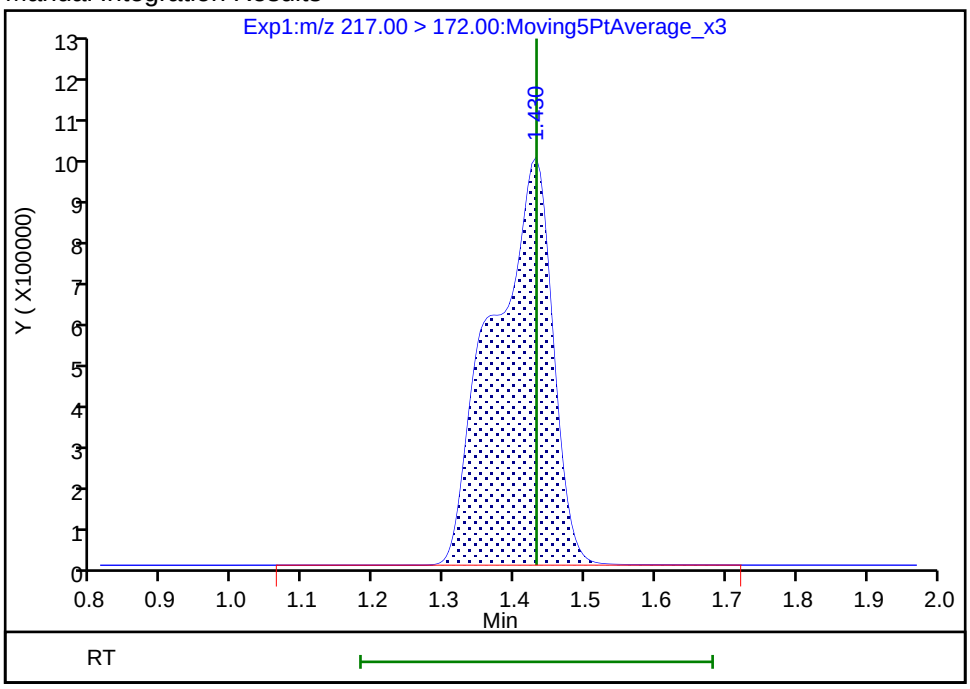
Processing Integration Results

RT: 1.43
Area: 4154586
Amount: 2.158190
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 5781235
Amount: 2.843032
Amount Units: ng/ml



Reviewer: westendorfc, 11-Jul-2018 16:17:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-232544/10 Calibration Date: 07/05/2018 12:02

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.05LLICALAAA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	1.001		2.45	2.50	-2.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.184		2.49	2.50	-0.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	76.74		2.24	2.21	1.2	50.0
4:2 FTS	AveID	15.68	16.31		2.43	2.34	4.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.050		2.58	2.50	3.2	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	65.82		2.38	2.35	1.5	50.0
HFPO-DA (GenX)	AveID	2.299	2.197		2.39	2.50	-4.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.075		2.38	2.50	-4.9	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.048		2.06	2.28	-9.4	40.0
ADONA	AveID	3.706	3.546		2.39	2.50	-4.3	50.0
6:2 FTS	AveID	1.567	1.416		2.14	2.37	-9.6	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.151		2.43	2.50	-2.9	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.361		2.42	2.38	1.6	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.041		2.41	2.50	-3.4	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.149		2.28	2.32	-1.6	40.0
F-53B Major	AveID	1.891	1.920		2.37	2.33	1.6	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9655		2.43	2.50	-2.6	40.0
8:2 FTS	AveID	1.321	1.229		2.23	2.40	-7.0	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.7722		2.28	2.40	-5.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.069		2.57	2.50	2.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.023		2.49	2.50	-0.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.7288		2.44	2.41	1.3	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8710		2.42	2.50	-3.4	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8752		2.57	2.50	3.0	40.0
F-53B Minor	AveID	2.884	3.013		2.46	2.36	4.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.060		2.40	2.50	-3.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.075		2.19	2.50	-12.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2671		2.47	2.50	-1.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9846		2.57	2.50	2.7	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.146		2.46	2.50	-1.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-232544/10 Calibration Date: 07/05/2018 12:02

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.05LLICALAAA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.384	1.368		2.47	2.50	-1.2	50.0
13C5 PFPeA	Ave	1.025	0.9902		2.42	2.50	-3.3	50.0
13C3-PFBS	Ave	0.0245	0.0242		2.30	2.33	-1.1	50.0
M2-4:2FTS	Ave	0.1575	0.1616		2.39	2.34	2.6	50.0
13C2 PFHxA	Ave	1.097	1.083		2.47	2.50	-1.2	50.0
13C3 HFPO-DA	Ave	0.0899	0.0889		2.47	2.50	-1.1	50.0
13C4-PFHpA	Ave	0.9735	1.039		2.67	2.50	6.7	50.0
18O2 PFHxS	Ave	1.198	1.278		2.52	2.37	6.7	50.0
M2-6:2FTS	Ave	0.2186	0.2216		2.41	2.38	1.4	40.0
13C4 PFOA	Ave	0.9539	0.9766		2.56	2.50	2.4	50.0
13C4 PFOS	Ave	0.8551	0.8610		2.41	2.39	0.7	50.0
13C5 PFNA	Ave	0.8109	0.8487		2.62	2.50	4.7	50.0
13C8 FOSA	Ave	1.187	1.178		2.48	2.50	-0.8	50.0
M2-8:2FTS	Ave	0.2431	0.2416		2.38	2.40	-0.6	40.0
13C2 PFDA	Ave	0.6992	0.6855		2.45	2.50	-2.0	50.0
d3-NMeFOSAA	Ave	0.4120	0.3877		2.35	2.50	-5.9	50.0
d5-NEtFOSAA	Ave	0.4070	0.4020		2.47	2.50	-1.2	50.0
13C2 PFUnA	Ave	0.5873	0.5641		2.40	2.50	-4.0	50.0
13C2 PFDoA	Ave	0.6294	0.6275		2.49	2.50	-0.3	50.0
13C2-PFTeDA	Ave	0.7673	0.7108		2.32	2.50	-7.4	50.0
13C2-PFHxDA	Ave	1.420	1.436		2.53	2.50	1.2	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAAA_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 05-Jul-2018 12:02:30 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 05-Jul-2018 12:40:52 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK035

First Level Reviewer: hannigana Date: 05-Jul-2018 12:15:22

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.435	1.432	0.003	0.540	6131064	2.47		98.8	24367	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.434	0.001	1.000	6136981	2.45			1903	
D 3 13C5-PFPeA										
267.90 > 223.00	1.719	1.716	0.003	0.647	4438344	2.42		96.7	41768	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.719	1.719	0.0	1.000	5256136	2.49			3641	
D 47 13C3-PFBS										
301.90 > 83.00	1.755	1.756	-0.001	0.660	101047	2.30		98.9	711	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.755	1.760	-0.005	1.000	7370326	2.24			41967	
298.90 > 99.00	1.755	1.760	-0.005	1.000	3028131		2.43(1.25-3.74)		18538	
D 60 M2-4:2FTS										
329.00 > 81.00	1.959	1.966	-0.007	0.737	676447	2.39		103	7641	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.969	1.966	0.003	1.122	1654822	2.43			50158	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.000	0.002	0.753	4854949	2.47		98.8	51160	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.002	0.0	1.000	5099825	2.58			8587	
313.00 > 119.00	2.002	2.002	0.0	1.000	456216		11.18(5.03-15.10)		8100	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.025	0.0	1.154	6708088	2.38			62413	
349.00 > 99.00	2.014	2.025	-0.011	1.147	2422162		2.77(1.36-4.07)		22579	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.099	-0.006	0.787	398332	2.47		98.9	7993	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.099	-0.006	1.000	875056	2.39			4845	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.318	2.318	0.0	1.000	5003851	2.38			6366	
363.00 > 169.00	2.318	2.318	0.0	1.000	1874930		2.67(1.13-3.40)		12052	
D 9 13C4-PFHpA										
367.00 > 322.00	2.318	2.318	0.0	0.872	4656296	2.67		107	41039	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.318	2.331	-0.013	0.994	5461859	2.06			18927	
399.00 > 99.00	2.318	2.331	-0.013	0.994	1784835		3.06(1.50-4.49)		7949	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.333	-0.001	0.877	5420046	2.52		107	39724	
65 Adona										
377.00 > 251.00	2.358	2.365	-0.007	0.779	13686036	2.39			71323	
377.00 > 85.00	2.358	2.365	-0.007	0.779	8337865		1.64(0.84-2.53)		53282	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.645	-0.010	1.000	1333122	2.14			8063	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.645	-0.010	0.991	943359	2.41		101	12034	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.670	-0.011	1.000	4377398	2.56		102	50629	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.671	-0.012	1.000	5044620	2.43			1817	
413.00 > 169.00	2.659	2.671	-0.012	1.000	2587826		1.95(0.84-2.52)		12854	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.671	-0.012		4482111	2.50			39137	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.678	-0.012	0.881	5002055	2.42			24929	
449.00 > 99.00	2.666	2.678	-0.012	0.881	1268205		3.94(1.94-5.82)		17204	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.025	3.034	-0.009	1.000	4114457	2.28			26454	
499.00 > 99.00	3.025	3.034	-0.009	1.000	952789		4.32(2.31-6.93)		15874	
D 19 13C5 PFNA										
468.00 > 423.00	3.025	3.034	-0.009	1.138	3804115	2.62		105	42092	
D 18 13C4 PFOS										
503.00 > 80.00	3.025	3.034	-0.009	1.138	3689440	2.41		101	25424	
20 Perfluorononanoic acid										
463.00 > 419.00	3.025	3.036	-0.011	1.000	3959979	2.41			9180	
463.00 > 169.00	3.025	3.036	-0.011	1.000	980675		4.04(1.90-5.69)		28876	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.246	-0.013	1.069	6907503	2.37			68780	
D 21 13C8 FOSA										
506.00 > 78.00	3.360	3.357	0.003	1.264	5279917	2.48		99.2	41968	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.360	3.358	0.002	1.000	5097528	2.43			34528	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.379	-0.009	1.114	2860785	2.28			32480	
549.00 > 99.00	3.370	3.379	-0.009	1.114	1098082		2.61(1.33-3.97)		17909	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.382	-0.012	1.267	1037484	2.38		99.4	18107	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.383	-0.013	1.000	1275212	2.23			28766	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.379	3.393	-0.014	1.000	3285706	2.57			11443	
513.00 > 169.00	3.379	3.393	-0.014	1.000	550350		5.97(2.36-7.09)		15589	
D 23 13C2 PFDA										
515.00 > 470.00	3.379	3.393	-0.014	1.271	3072360	2.45		98.0	43459	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.528	3.543	-0.015	1.327	1737728	2.35		94.1	19084	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.551	-0.013	1.003	1778042	2.49			9882	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.702	-0.015	1.219	2711359	2.44			47459	
599.00 > 99.00	3.687	3.702	-0.015	1.219	892646		3.04(1.39-4.16)		17035	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.697	3.713	-0.016	1.391	1801704	2.47		98.8	12323	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.721	-0.013	1.000	2212866	2.57			7822	
563.00 > 169.00	3.708	3.721	-0.013	1.000	520962		4.25(2.12-6.36)		13424	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.721	-0.013	1.003	1569355	2.42			38323	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.721	-0.013	1.395	2528432	2.40		96.0	23769	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.879	-0.013	1.278	10951949	2.46			104128	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	4.016	-0.017	1.000	2981159	2.40			3399	
613.00 > 169.00	3.999	4.016	-0.017	1.000	739488		4.03(2.13-6.40)		9228	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.016	-0.017	1.504	2812645	2.49		99.7	14618	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.284	-0.022	1.066	3024032	2.19			3178	
663.00 > 169.00	4.262	4.284	-0.022	1.066	955670		3.16(1.25-3.76)		14135	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.524	-0.023	1.693	3185648	2.32		92.6	13201	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.524	-0.023	1.000	850833	2.47			7855	
713.00 > 219.00	4.491	4.524	-0.033	0.998	598270		1.42(0.71-2.13)		9582	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.913	4.940	-0.027	1.848	6436277	2.53		101	15738	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.913	4.941	-0.028	1.000	6336870	2.57			2687	
813.00 > 169.00	4.913	4.941	-0.028	1.000	983566		6.44(2.86-8.58)		7867	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.270	5.302	-0.032	1.072	7377474	2.46			2173	
913.00 > 169.00	5.270	5.302	-0.032	1.072	857374		8.60(3.83-11.48)		6319	

Reagents:

LCPFCIC_FULL_00012 Amount Added: 1.00 Units: mL

Report Date: 05-Jul-2018 12:40:53 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAAA_010.d

Injection Date: 05-Jul-2018 12:02:30 Instrument ID: A8_N

Lims ID: ICV Full

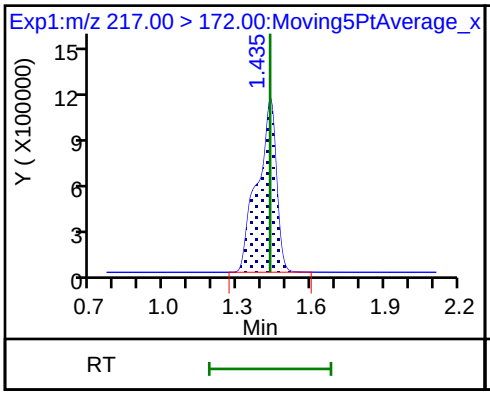
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 17 Worklist Smp#: 10

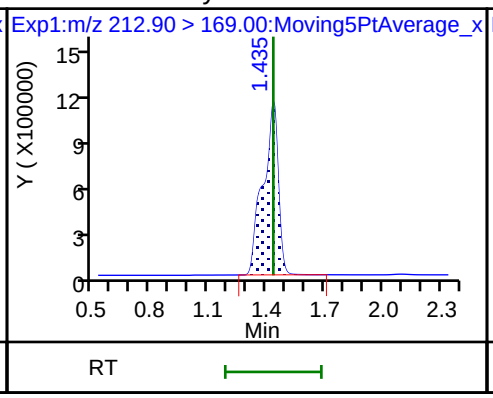
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

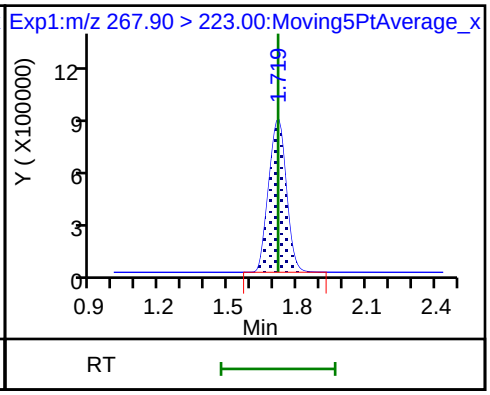
D 1 13C4 PFBA



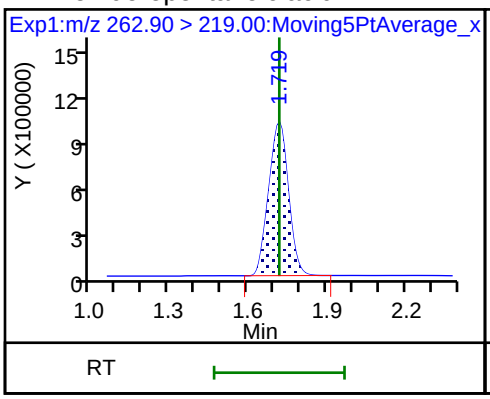
2 Perfluorobutyric acid



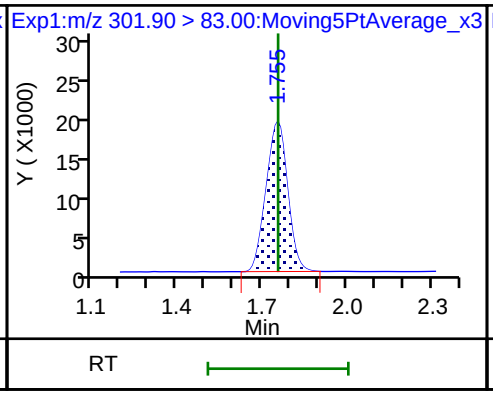
D 3 13C5-PFPeA



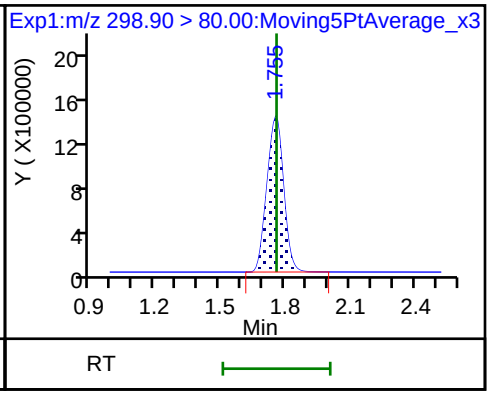
4 Perfluoropentanoic acid



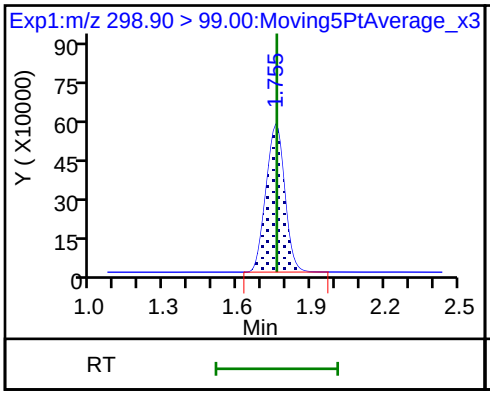
D 47 13C3-PFBS



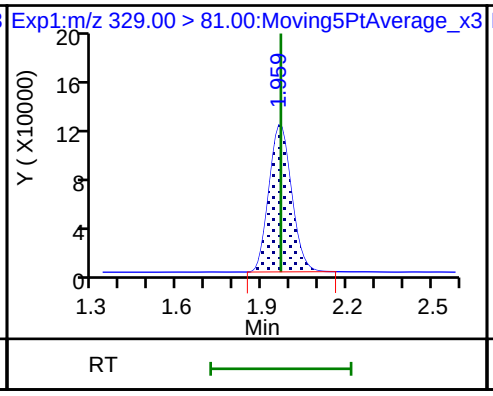
5 Perfluorobutanesulfonic acid



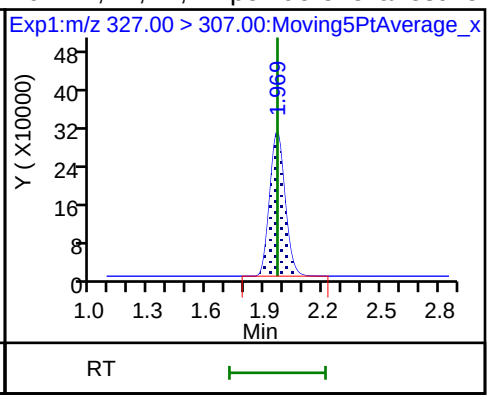
5 Perfluorobutanesulfonic acid



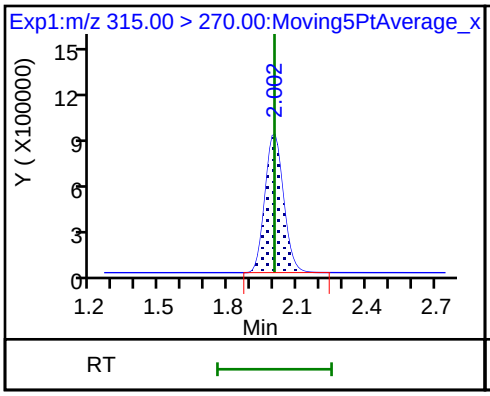
D 60 M2-4:2FTS



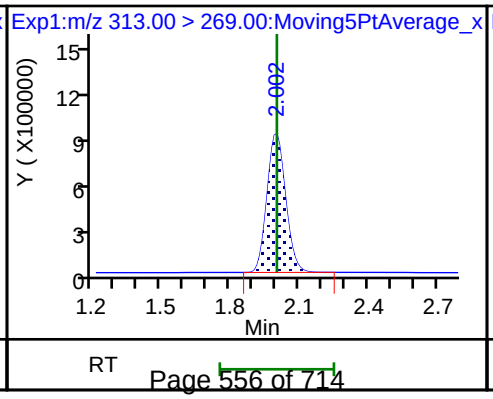
61 1H,1H,2H,2H-perfluorohexanesulfoni



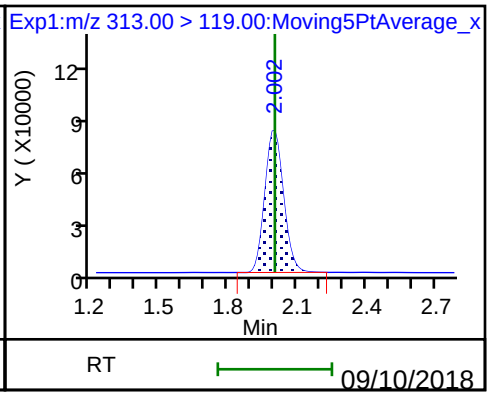
D 7 13C2 PFHxA



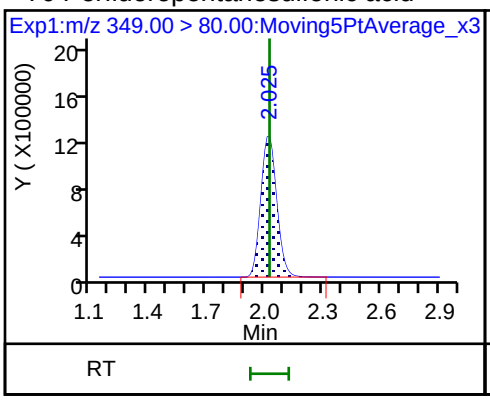
6 Perfluorohexanoic acid



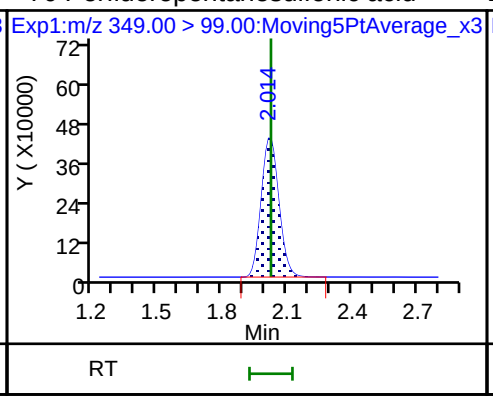
6 Perfluorohexanoic acid



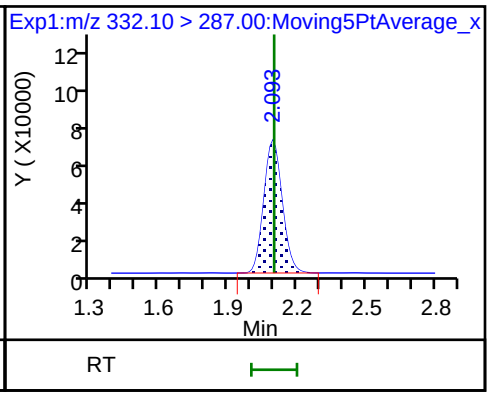
70 Perfluoropentanesulfonic acid



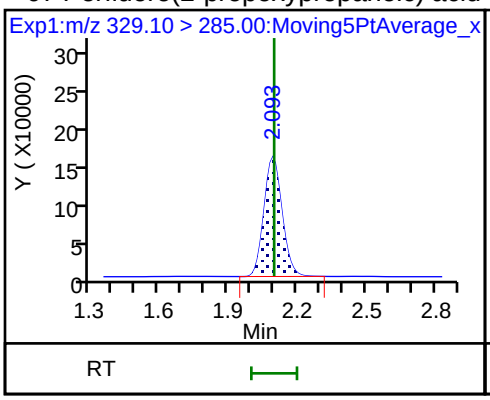
70 Perfluoropentanesulfonic acid



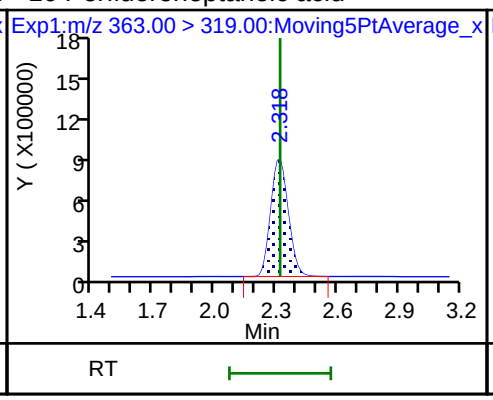
D 64 13C3 HFPO-DA



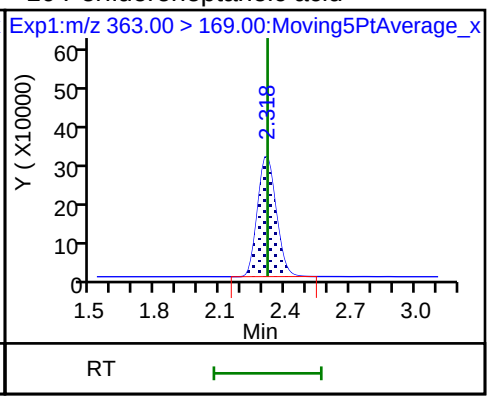
67 Perfluoro(2-propoxypropanoic) acid



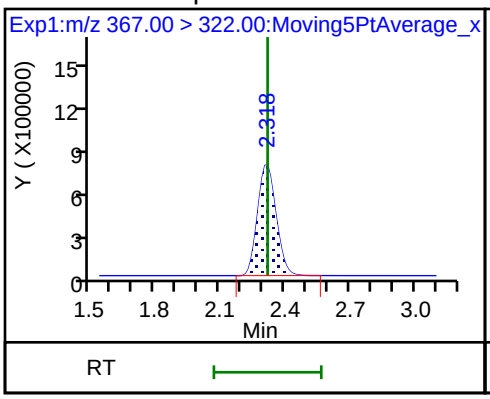
10 Perfluoroheptanoic acid



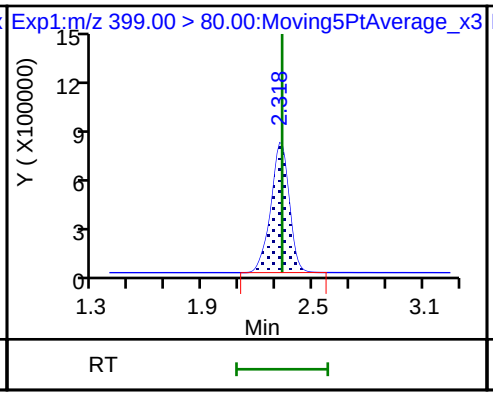
10 Perfluoroheptanoic acid



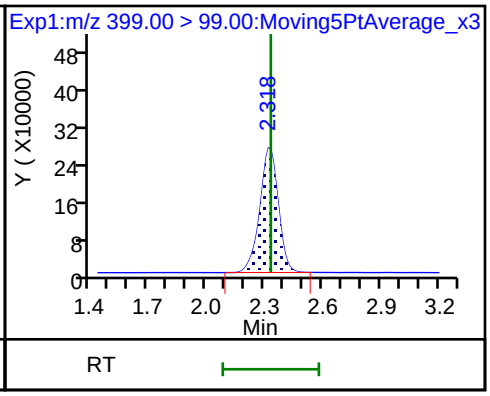
D 9 13C4-PFHpA



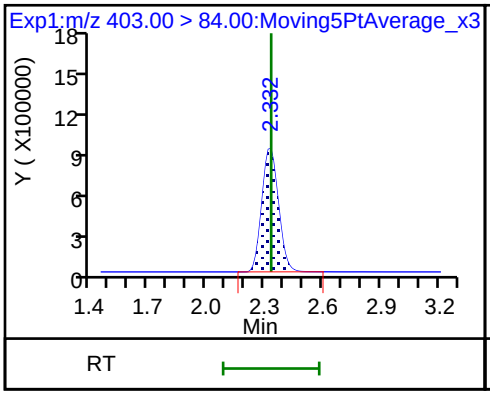
8 Perfluorohexanesulfonic acid



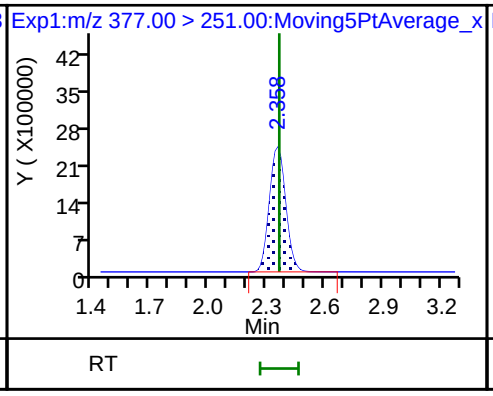
8 Perfluorohexanesulfonic acid



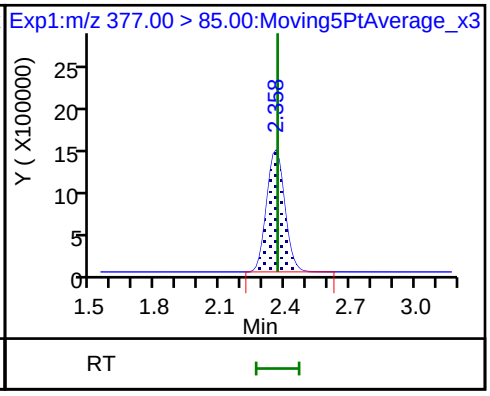
D 11 18O2 PFHxS



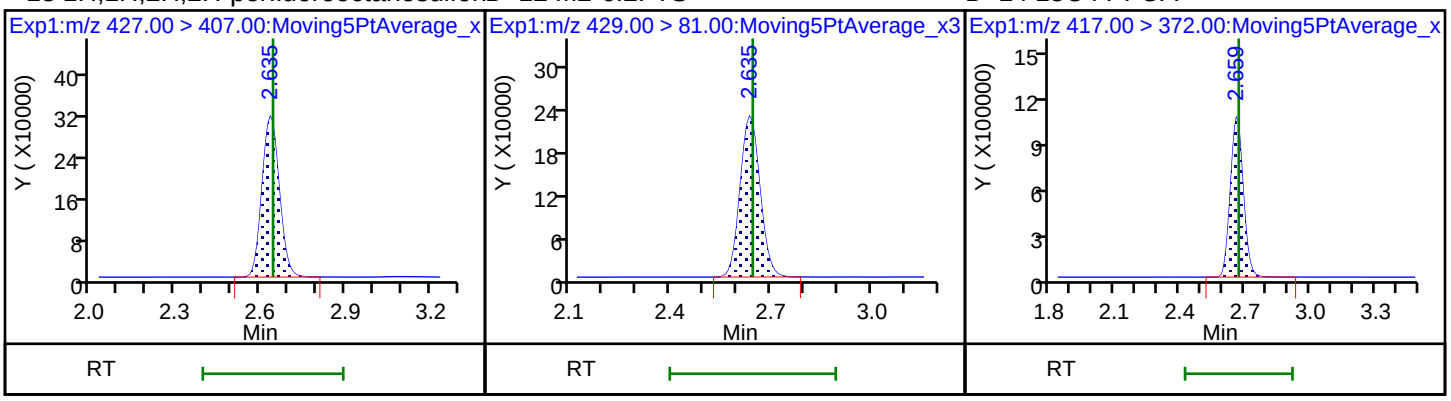
65 Adona



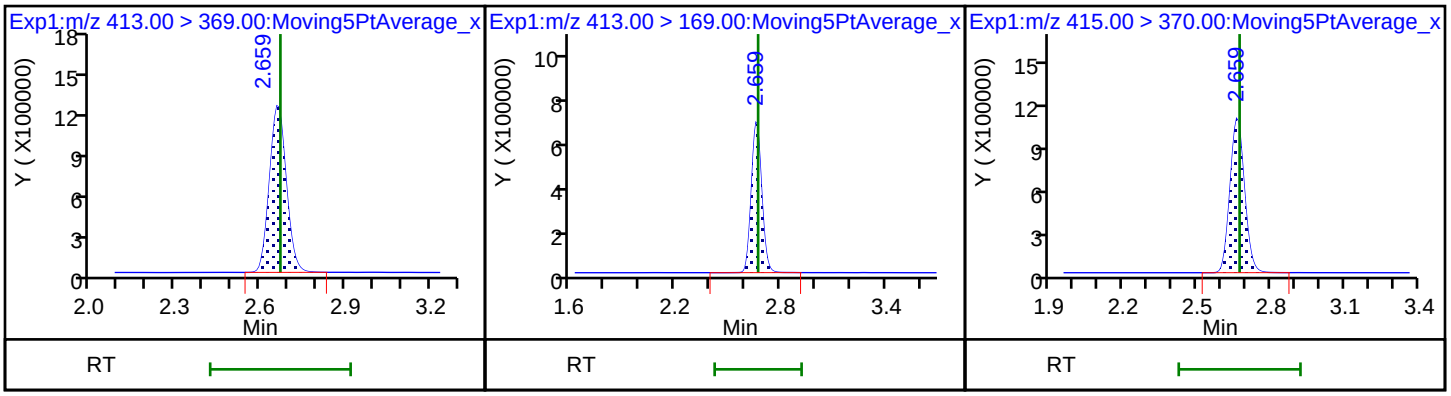
65 Adona



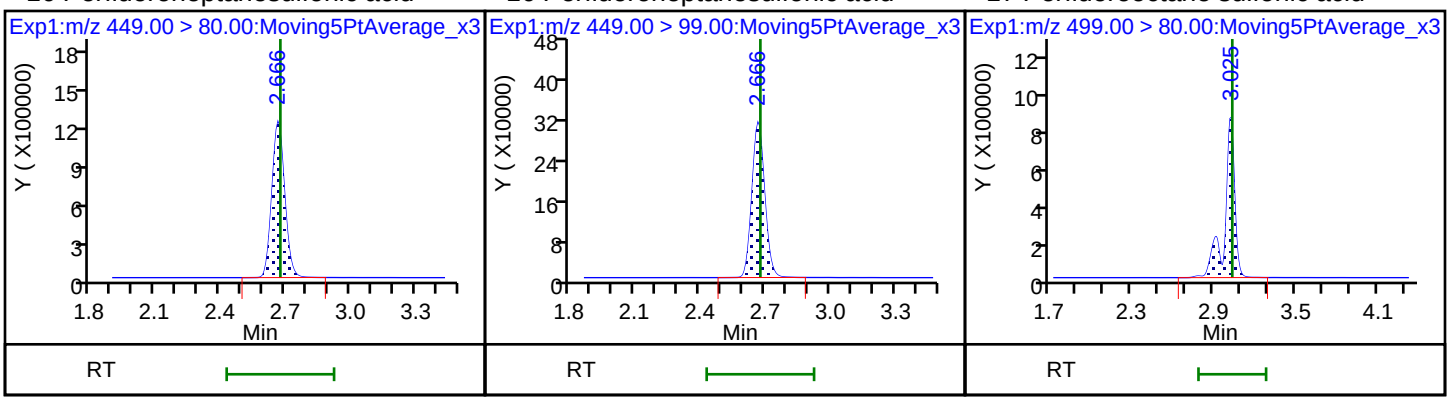
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS D 14 13C4 PFOA



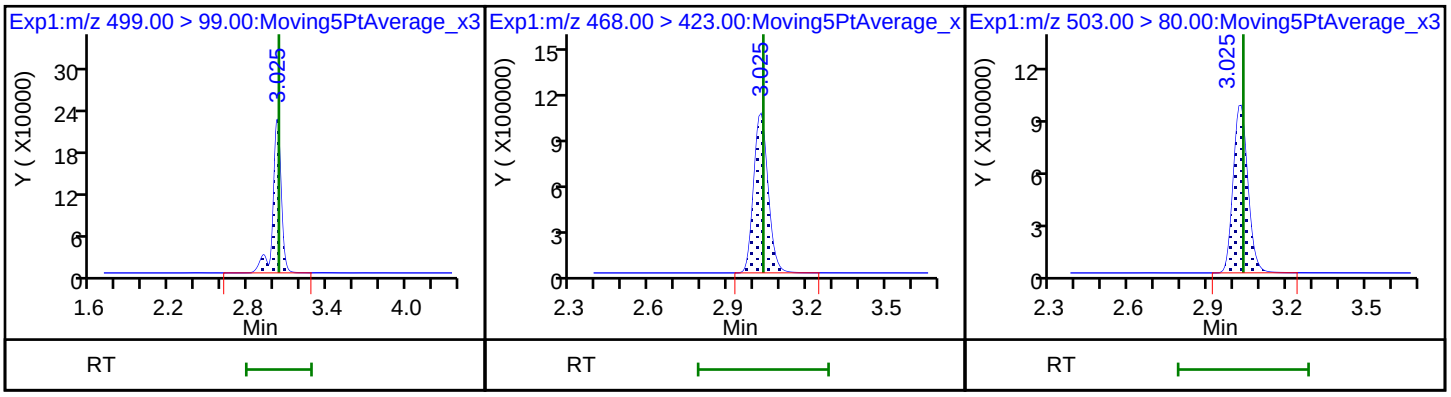
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid * 62 13C2-PFOA



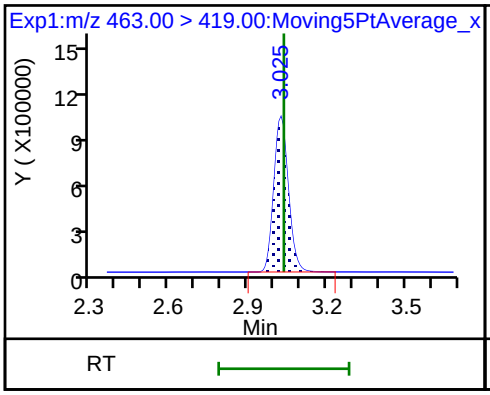
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



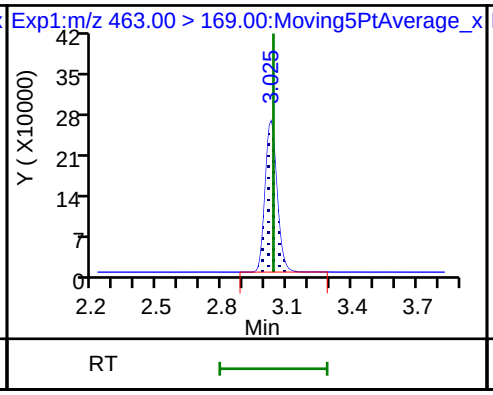
17 Perfluorooctane sulfonic acid D 19 13C5 PFNA D 18 13C4 PFOS



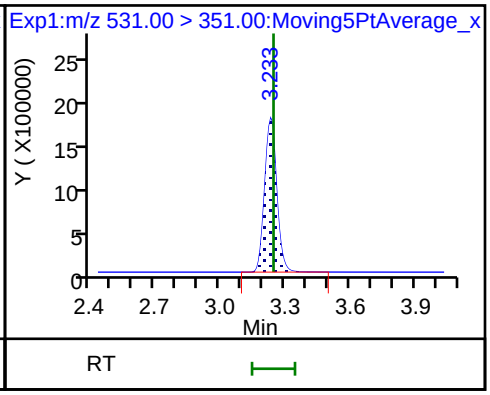
20 Perfluorononanoic acid



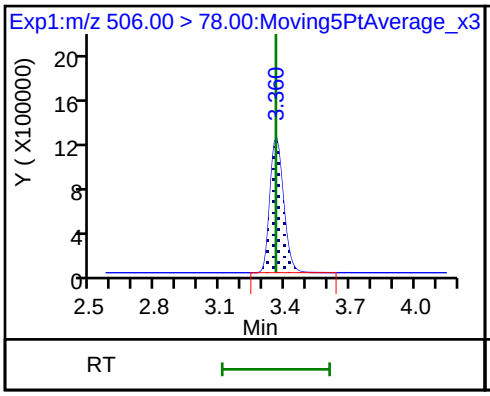
20 Perfluorononanoic acid



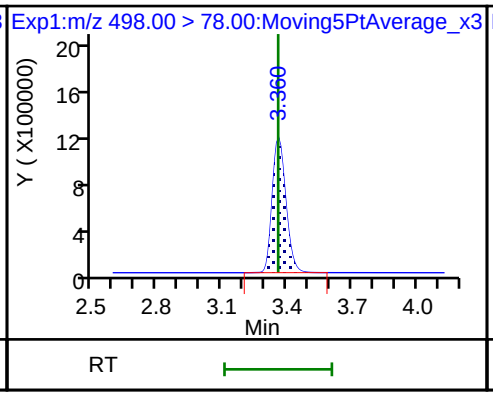
69 9-Chlorohexadecafluoro-3-oxanonane



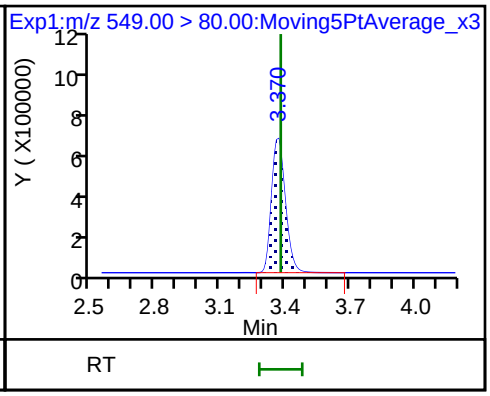
D 21 13C8 FOSA



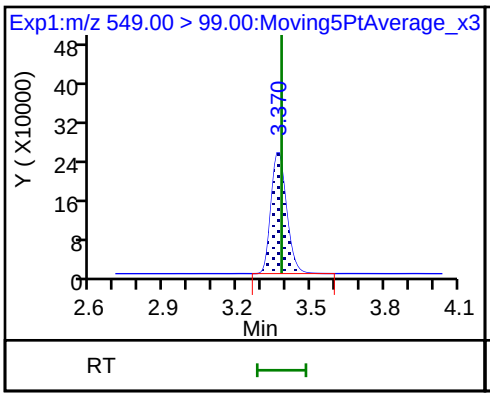
22 Perfluorooctane Sulfonamide



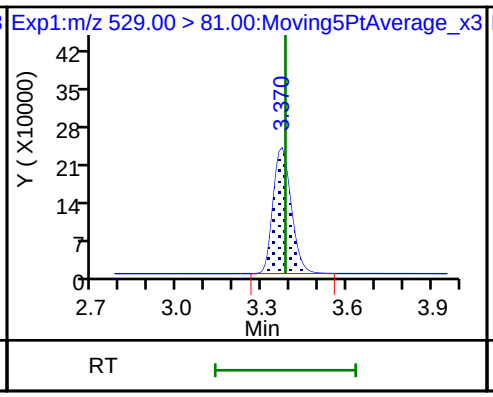
68 Perfluorononanesulfonic acid



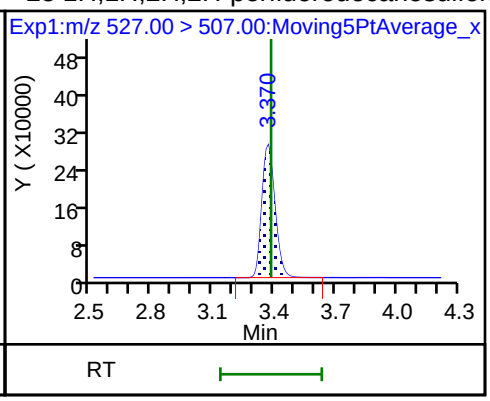
68 Perfluorononanesulfonic acid



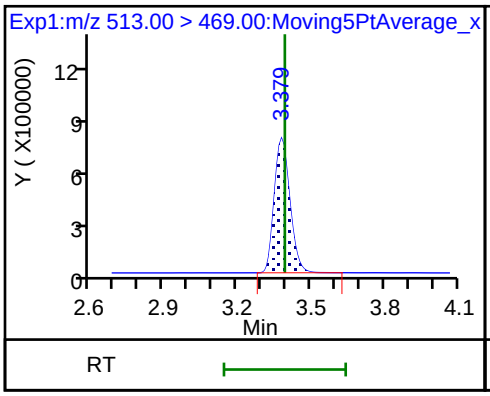
D 26 M2-8:2FTS



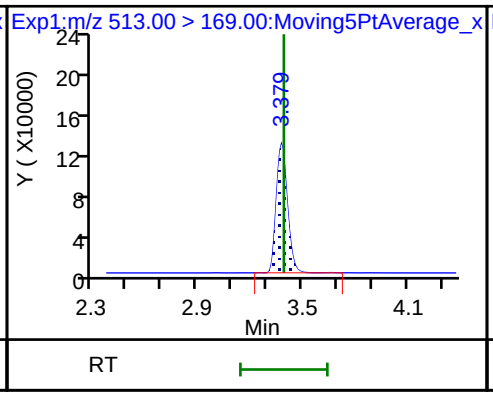
25 1H,1H,2H,2H-perfluorodecanesulfoni



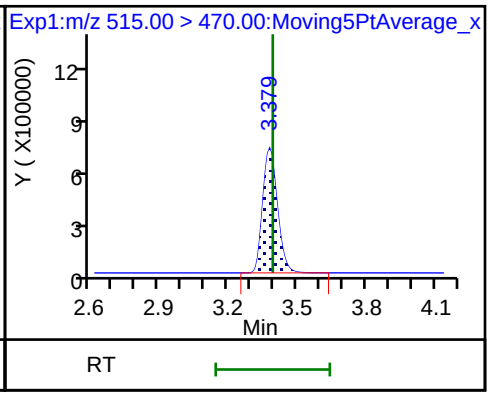
24 Perfluorodecanoic acid



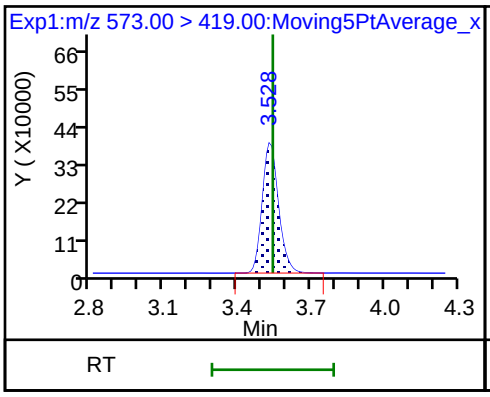
24 Perfluorodecanoic acid



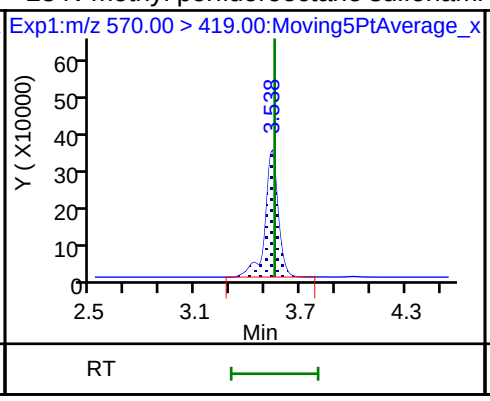
D 23 13C2 PFDA



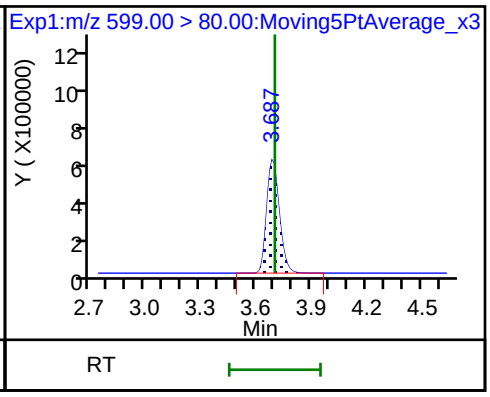
D 27 d3-NMeFOSAA



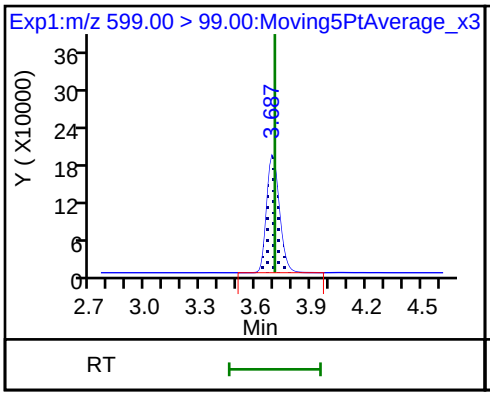
28 N-methyl perfluorooctane sulfonami



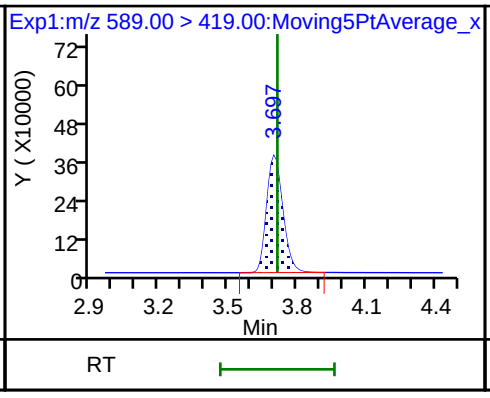
29 Perfluorodecane Sulfonic acid



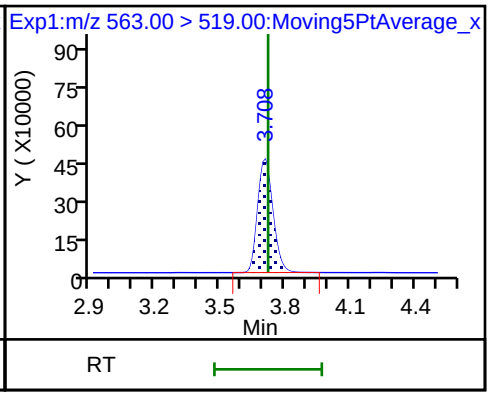
29 Perfluorodecane Sulfonic acid



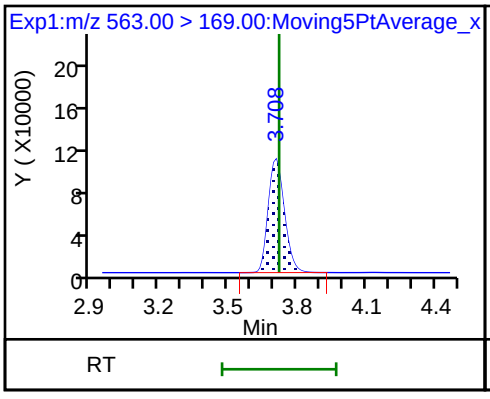
D 32 d5-NEtFOSAA



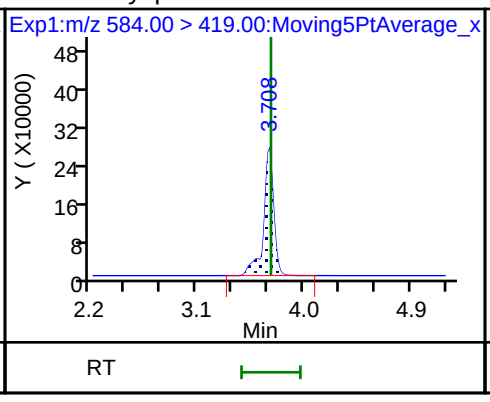
31 Perfluoroundecanoic acid



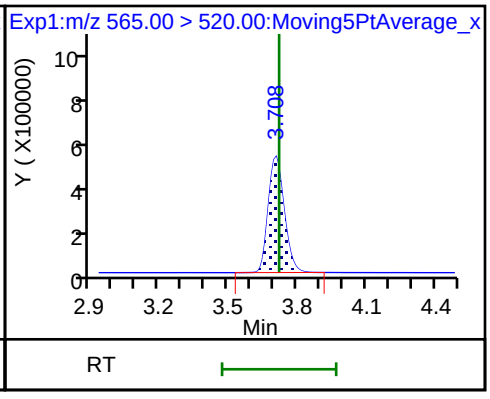
31 Perfluoroundecanoic acid



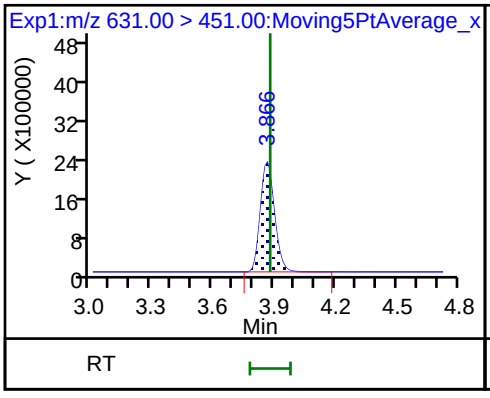
33 N-ethyl perfluorooctane sulfonamid



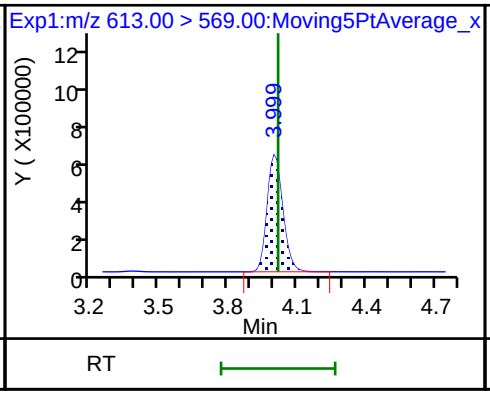
D 30 13C2 PFUnA



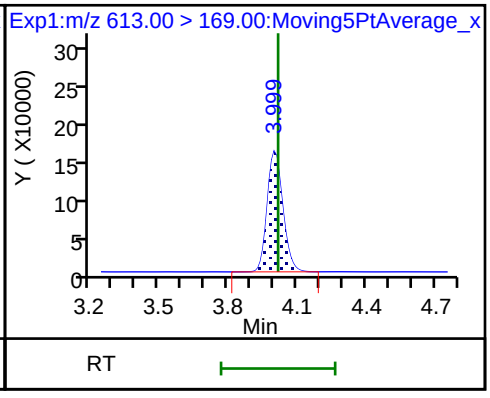
66 11-Chloroeicosafluoro-3-oxaundecan



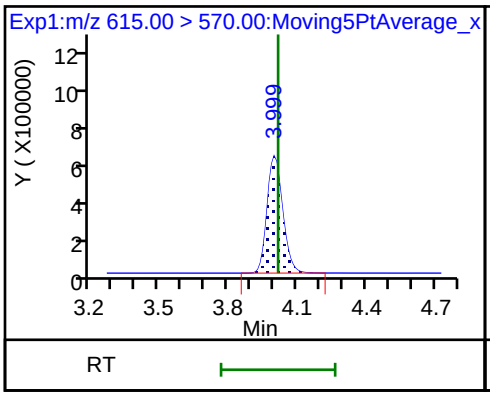
37 Perfluorododecanoic acid



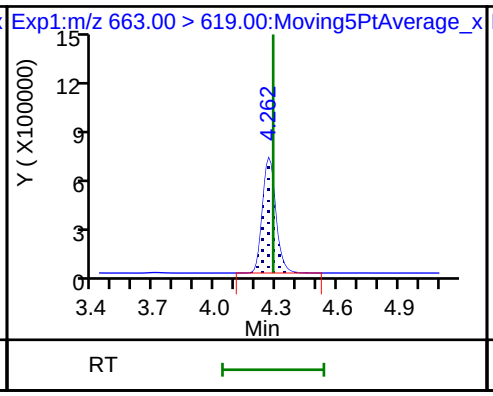
37 Perfluorododecanoic acid



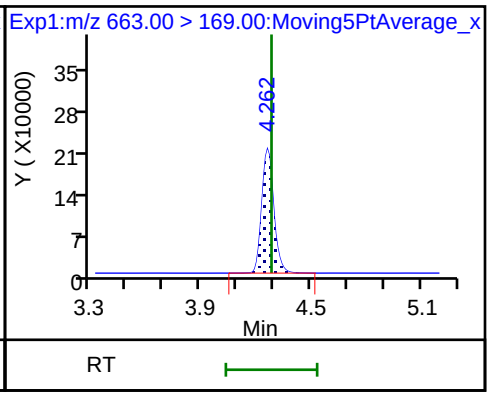
D 36 13C2 PFDoA



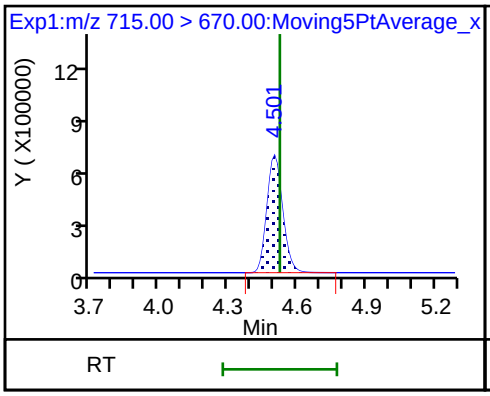
41 Perfluorotridecanoic acid



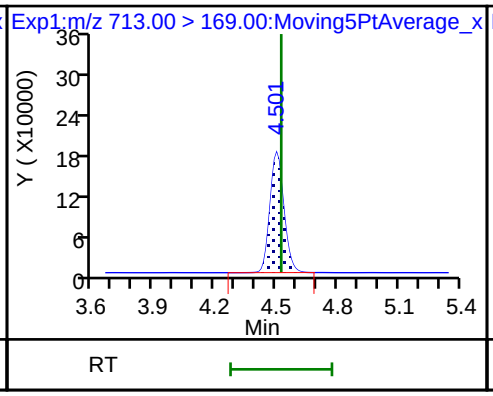
41 Perfluorotridecanoic acid



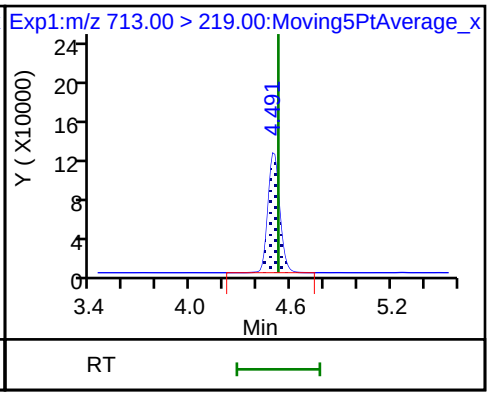
D 43 13C2-PFTeDA



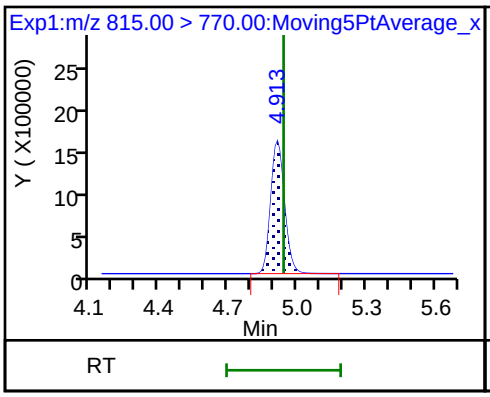
42 Perfluorotetradecanoic acid



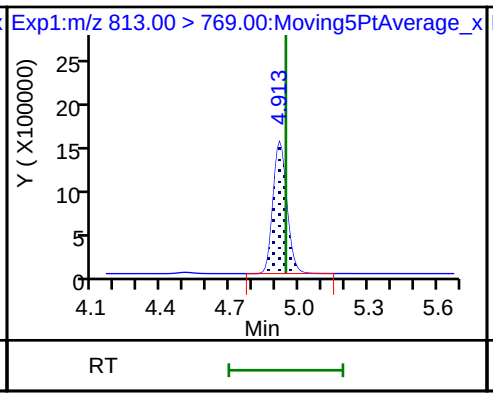
42 Perfluorotetradecanoic acid



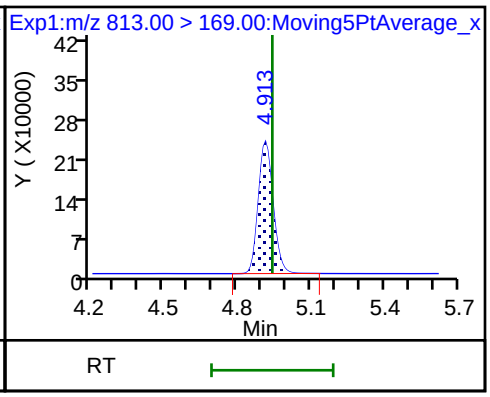
D 44 13C2-PFHxDA



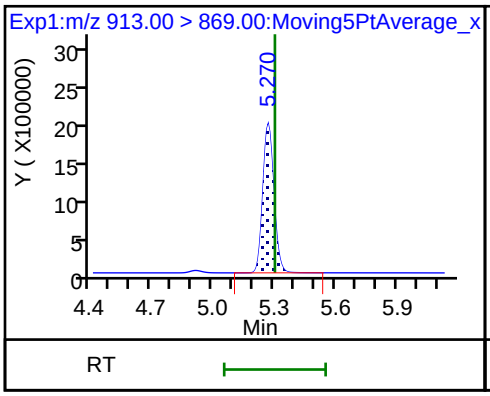
45 Perfluorohexadecanoic acid



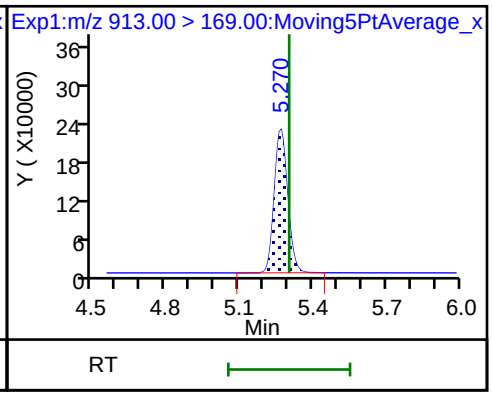
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233302/2 Calibration Date: 07/10/2018 20:14

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	1.078		0.0528	0.0500	5.6	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.272		0.0534	0.0500	6.8	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	75.05		0.0438	0.0442	-1.0	50.0
4:2 FTS	AveID	15.68	16.20			0.0467	3.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.085		0.0533	0.0500	6.6	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	68.22		0.0493	0.0469	5.2	50.0
HFPO-DA (GenX)	AveID	2.299	2.306		0.0502	0.0500	0.3	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.353		0.0599	0.0500	19.7	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.282		0.0505	0.0455	10.9	50.0
ADONA	AveID	3.706	3.928		0.0499	0.0471	6.0	50.0
6:2 FTS	AveID	1.567	1.537			0.0474	-1.9	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.295		0.0460	0.0476	-3.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.400		0.0591	0.0501	18.1	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.128		0.0523	0.0500	4.6	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.109		0.0440	0.0464	-5.1	50.0
F-53B Major	AveID	1.891	1.841		0.0454	0.0466	-2.6	50.0
8:2 FTS	AveID	1.321	1.384		0.0502	0.0479	4.8	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.6899		0.0407	0.0480	-15.1	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9554		0.0482	0.0500	-3.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.280		0.0614	0.0500	22.8	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	0.9130			0.0500	-11.3	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6972		0.0467	0.0482	-3.1	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.7660			0.0500	-15.0	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.7750		0.0456	0.0500	-8.8	50.0
F-53B Minor	AveID	2.884	2.805		0.0458	0.0471	-2.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.113		0.0505	0.0500	1.0	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.091		0.0444	0.0500	-11.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2770		0.0512	0.0500	2.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.336		0.0475	0.0500	-5.1	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.105		0.0475	0.0500	-5.1	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233302/2 Calibration Date: 07/10/2018 20:14

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.384	1.301		2.35	2.50	-6.0	50.0
13C5 PFPeA	Ave	1.025	0.9491		2.32	2.50	-7.4	50.0
13C3-PFBS	Ave	0.0245	0.0227		2.15	2.33	-7.5	50.0
M2-4:2FTS	Ave	0.1575	0.1589		2.36	2.34	0.9	50.0
13C2 PFHxA	Ave	1.097	1.025		2.34	2.50	-6.6	50.0
13C3 HFPO-DA	Ave	0.0899	0.0855		2.38	2.50	-4.8	50.0
13C4-PFHpA	Ave	0.9735	0.9910		2.55	2.50	1.8	50.0
18O2 PFHxS	Ave	1.198	1.286		2.54	2.37	7.3	50.0
M2-6:2FTS	Ave	0.2186	0.2295		2.49	2.38	5.0	50.0
13C4 PFOA	Ave	0.9539	1.009		2.64	2.50	5.8	50.0
13C4 PFOS	Ave	0.8551	0.8876		2.48	2.39	3.8	50.0
13C5 PFNA	Ave	0.8109	0.8761		2.70	2.50	8.0	50.0
13C8 FOSA	Ave	1.187	1.209		2.55	2.50	1.9	50.0
M2-8:2FTS	Ave	0.2431	0.2810		2.77	2.40	15.6	50.0
13C2 PFDA	Ave	0.6992	0.7351		2.63	2.50	5.1	50.0
d3-NMeFOSAA	Ave	0.4120	0.4149		2.52	2.50	0.7	50.0
d5-NEtFOSAA	Ave	0.4070	0.4284		2.63	2.50	5.3	50.0
13C2 PFUnA	Ave	0.5873	0.5966		2.54	2.50	1.6	50.0
13C2 PFDoA	Ave	0.6294	0.6508		2.59	2.50	3.4	50.0
13C2-PFTeDA	Ave	0.7673	0.6894		2.25	2.50	-10.2	50.0
13C2-PFHxDA	Ave	1.420	1.304		2.30	2.50	-8.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 10-Jul-2018 20:14:21 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 14:50:49 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK002

First Level Reviewer: ruangyotsakuld Date: 11-Jul-2018 14:50:49

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.419	1.417	0.002	0.532	5701867	2.35		94.0	24893	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.419	1.425	-0.006	1.000	122961	0.0528		106	62.9	
D 3 13C5-PFPeA										
267.90 > 223.00	1.710	1.717	-0.006	0.641	4160377	2.32		92.6	50857	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.710	1.721	-0.011	1.000	105811	0.0534		107	75.3	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.753	0.003	0.658	92383	2.15		92.5	703	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.757	-0.001	1.000	131807	0.0438		99.0	511	
298.90 > 99.00	1.756	1.757	-0.001	1.000	52499		2.51(1.25-3.74)		428	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.967	0.003	0.739	650641	2.36		101	10618	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.971	-0.001	1.122	30066	0.0483		103	1817	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.002	2.004	-0.002	1.000	97472	0.0533		107	251	
313.00 > 119.00	2.014	2.004	0.010	1.006	10563		9.23(5.03-15.10)		174	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	2.011	-0.009	0.751	4491406	2.34		93.4	73201	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.027	-0.002	1.154	127136	0.0493		105	2539	
349.00 > 99.00	2.025	2.027	-0.002	1.154	47542		2.67(1.36-4.07)		759	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	0.995	17289	0.0502		100	99.8	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.104	2.101	0.003	0.789	374883	2.38		95.2	8615	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.316	0.003	0.870	4344172	2.55		102	56529	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.320	-0.001	1.000	117539	0.0599		120	175	
363.00 > 169.00	2.319	2.320	-0.001	1.000	50960		2.31(1.13-3.40)		450	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.329	0.003	0.874	5331509	2.54		107	45201	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.333	-0.001	1.000	131524	0.0505		111	1512	
399.00 > 99.00	2.332	2.333	-0.001	1.000	41721		3.15(1.50-4.49)		400	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.780	287959	0.0499		106	3859	
377.00 > 85.00	2.358	2.360	-0.002	0.780	164327		1.75(0.84-2.53)		4077	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.637	-0.002	1.000	29310	0.0465		98.1	157	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.643	-0.008	0.988	955524	2.49		105	17691	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.661	0.006		4383599	2.50			28891	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.666	-0.007	0.997	4422102	2.64		106	41424	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.668	-0.001	1.003	123932	0.0591		118	38.2	
413.00 > 169.00	2.659	2.668	-0.009	1.000	54618		2.27(0.84-2.52)		301	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.668	-0.001	0.883	95949	0.0460		96.7	2152	
449.00 > 99.00	2.667	2.668	-0.001	0.883	28087		3.42(1.94-5.82)		781	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.021	3.021	0.0	1.000	80064	0.0440		94.9	822	
499.00 > 99.00	3.014	3.021	-0.007	0.998	19705		4.06(2.31-6.93)		402	
20 Perfluorononanoic acid										
463.00 > 419.00	3.021	3.021	0.0	1.000	86606	0.0523		105	228	
463.00 > 169.00	3.021	3.021	0.0	1.000	20706		4.18(1.90-5.69)		621	
D 19 13C5 PFNA										
468.00 > 423.00	3.021	3.022	-0.001	1.133	3840360	2.70		108	65066	
D 18 13C4 PFOS										
503.00 > 80.00	3.021	3.022	-0.001	1.133	3719764	2.48		104	36964	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.228	3.228	0.0	1.068	133496	0.0454		97.4	3764	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.355	3.365	-0.010	1.111	51536	0.0407		84.9	990	
549.00 > 99.00	3.355	3.365	-0.010	1.111	23111		2.23(1.33-3.97)		752	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.365	3.365	0.0	1.003	101294	0.0482		96.3	2348	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.355	3.365	-0.010	0.997	32674	0.0502		105	939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.367	-0.002	1.262	1180028	2.77		116	19417	
D 21 13C8 FOSA										
506.00 > 78.00	3.355	3.367	-0.012	1.258	5301209	2.55		102	40866	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.374	3.374	0.0	1.000	82476	0.0614		123	355	
513.00 > 169.00	3.374	3.374	0.0	1.000	13328		6.19(2.36-7.09)		615	
D 23 13C2 PFDA										
515.00 > 470.00	3.374	3.376	-0.002	1.265	3222258	2.63		105	41030	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.524	3.526	-0.002	1.321	1818708	2.52		101	23858	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.524	3.533	-0.009	1.000	33208	0.0444		88.7	269	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.679	3.679	0.0	1.218	52303	0.0467		96.9	1024	
599.00 > 99.00	3.679	3.679	0.0	1.218	17473		2.99(1.39-4.16)		604	
D 30 13C2 PFUnA										
565.00 > 520.00	3.700	3.694	0.006	1.388	2615036	2.54		102	36241	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.694	-0.004	1.384	1877924	2.63		105	14527	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.700	3.701	-0.001	1.003	28771	0.0425		85.0	532	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.700	3.701	-0.001	1.000	40535	0.0456		91.2	212	
563.00 > 169.00	3.700	3.701	-0.001	1.000	12402		3.27(2.12-6.36)		501	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.857	3.858	-0.001	1.277	205615	0.0458		97.3	6162	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.985	0.004	1.496	2852646	2.59		103	16166	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	3.990	-0.001	1.000	63511	0.0505		101	84.8	
613.00 > 169.00	3.989	3.990	-0.001	1.000	12423		5.11(2.13-6.40)		376	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.253	4.253	0.0	1.066	62232	0.0444		88.9	70.2	
663.00 > 169.00	4.253	4.253	0.0	1.066	19908		3.13(1.25-3.76)		432	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.489	0.001	1.684	3021942	2.25		89.8	13743	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.480	4.492	-0.012	0.998	16742	0.0512		102	316	
713.00 > 219.00	4.480	4.492	-0.012	0.998	14623		1.14(0.71-2.13)		437	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.895	0.001	1.836	5716332	2.30		91.9	14497	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.897	-0.001	1.000	152741	0.0475		94.9	81.7	
813.00 > 169.00	4.896	4.897	-0.001	1.000	26380		5.79(2.86-8.58)		374	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.249	-0.002	1.072	126354	0.0475		94.9	50.7	
913.00 > 169.00	5.247	5.249	-0.002	1.072	16532		7.64(3.83-11.48)		296	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 14:50:49 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d

Injection Date: 10-Jul-2018 20:14:21 Instrument ID: A8_N

Lims ID: CCVL

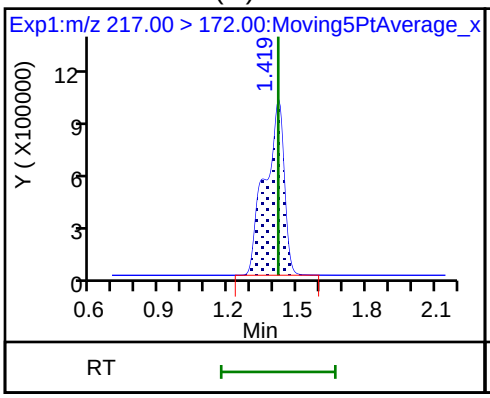
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

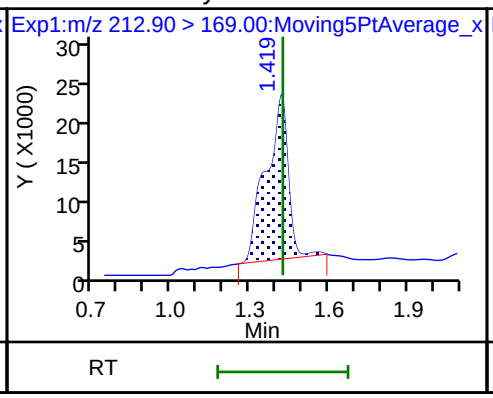
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

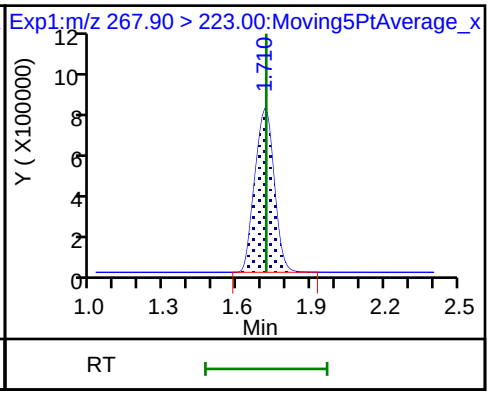
D 1 13C4 PFBA (M)



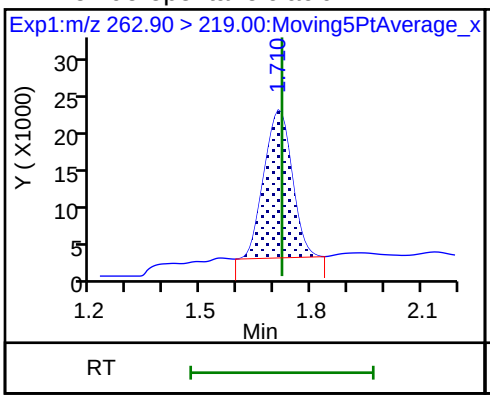
2 Perfluorobutyric acid



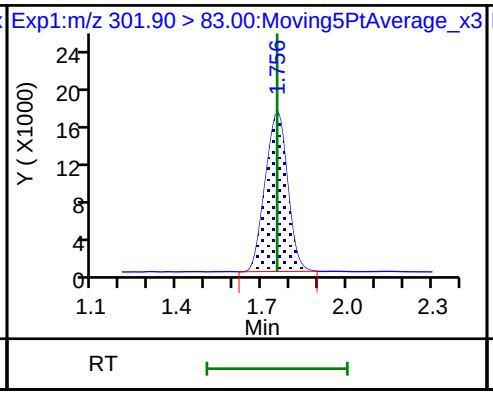
D 3 13C5-PFPeA



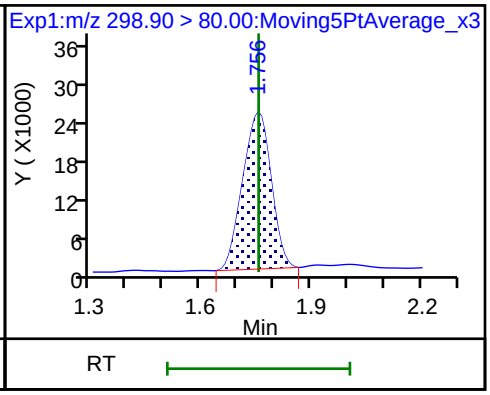
4 Perfluoropentanoic acid



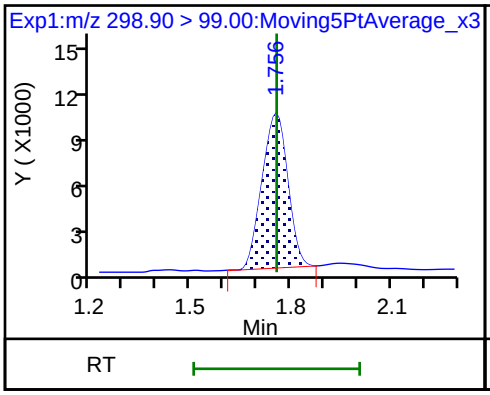
D 47 13C3-PFBS



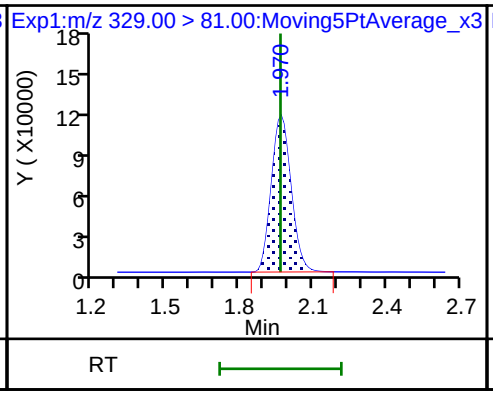
5 Perfluorobutanesulfonic acid



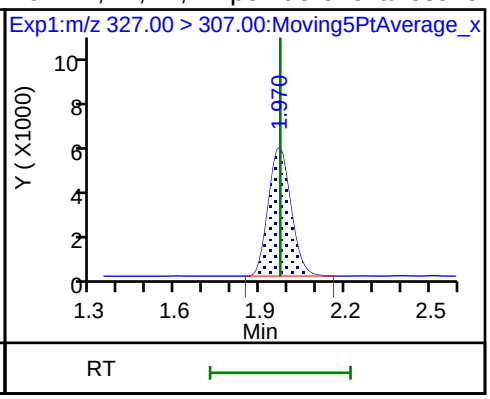
5 Perfluorobutanesulfonic acid



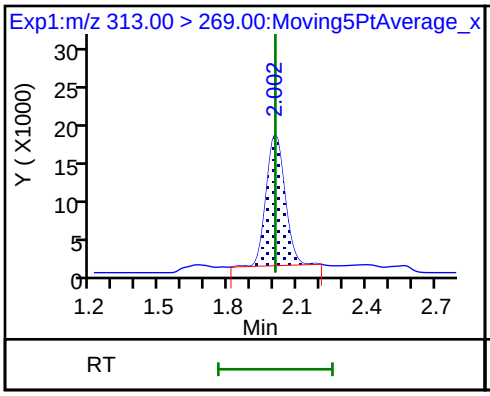
D 60 M2-4:2FTS



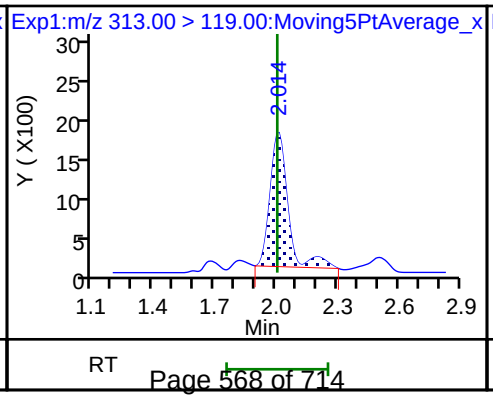
61 1H,1H,2H,2H-perfluorohexanesulfoni



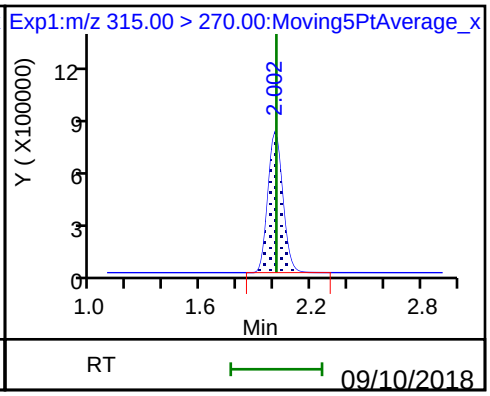
6 Perfluorohexanoic acid



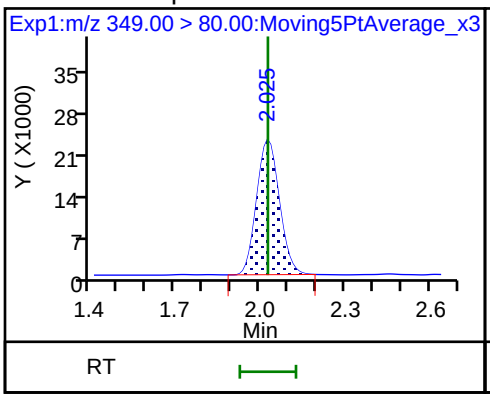
6 Perfluorohexanoic acid



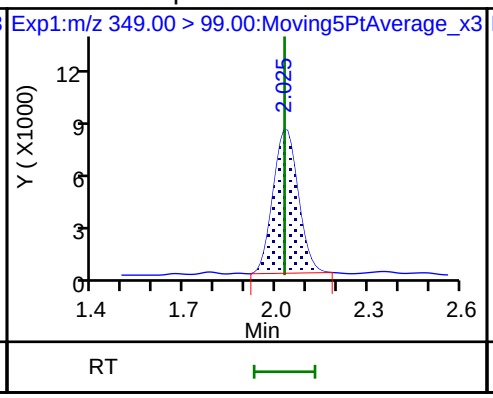
D 7 13C2 PFHxA



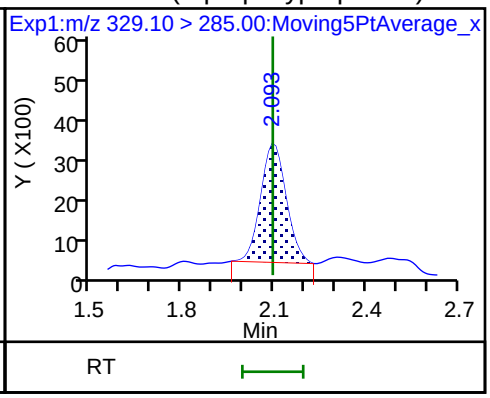
70 Perfluoropentanesulfonic acid



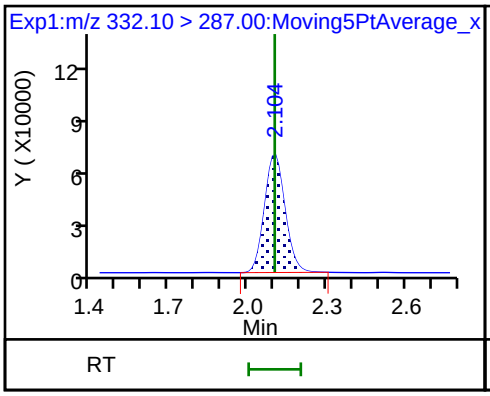
70 Perfluoropentanesulfonic acid



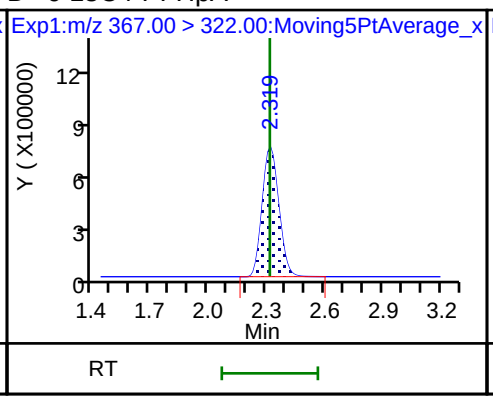
67 Perfluoro(2-propoxypropanoic) acid



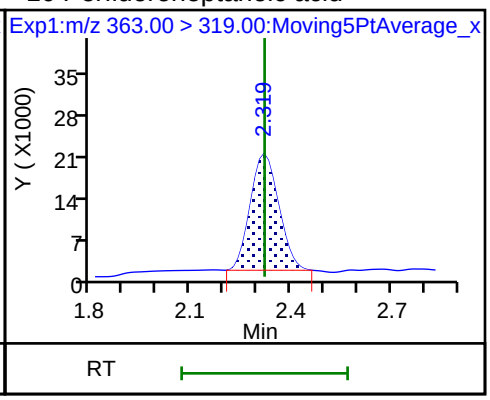
D 64 13C3 HFPO-DA



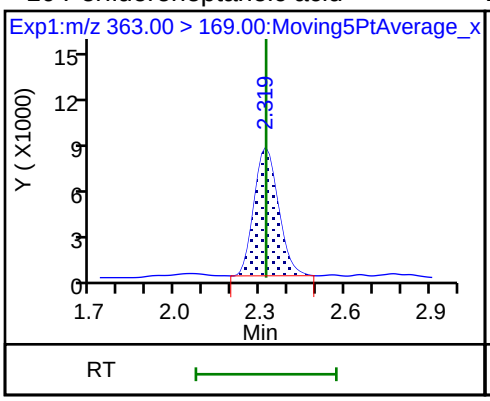
D 9 13C4-PFHpA



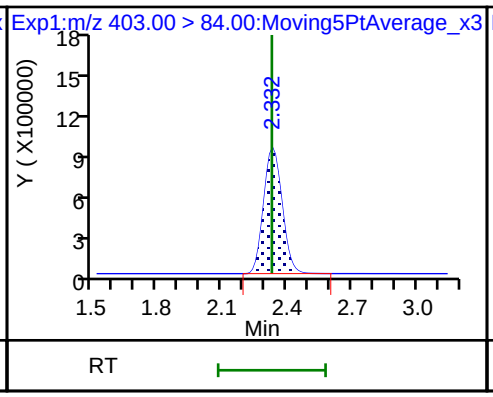
10 Perfluoroheptanoic acid



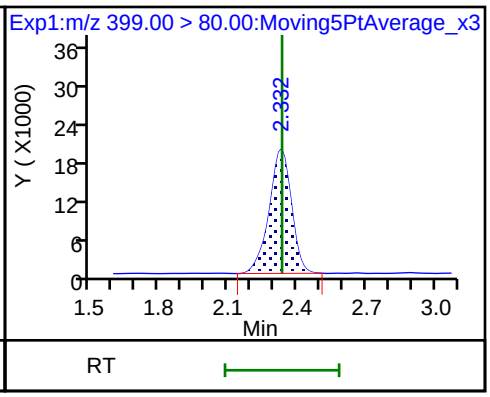
10 Perfluoroheptanoic acid



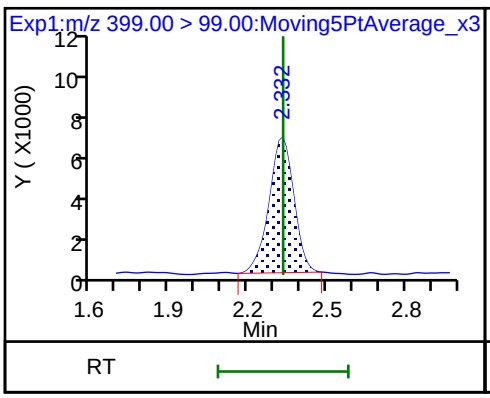
D 11 18O2 PFHxS



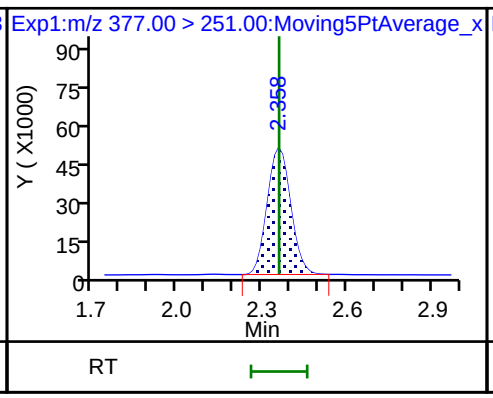
8 Perfluorohexanesulfonic acid



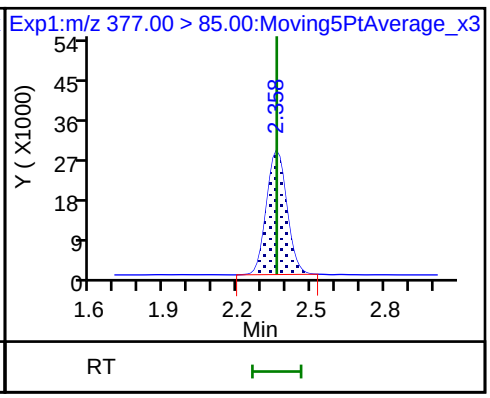
8 Perfluorohexanesulfonic acid



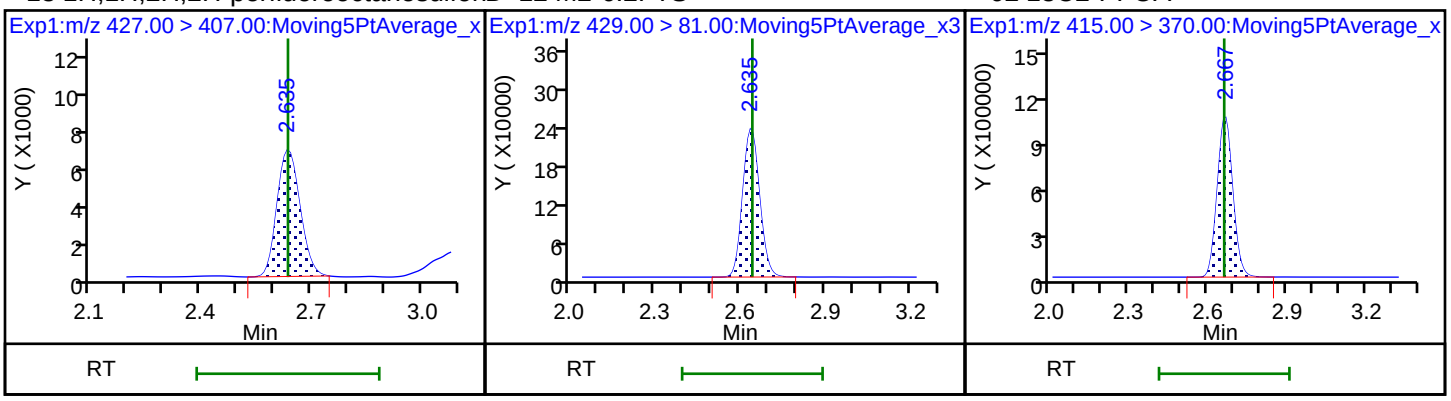
65 Adona



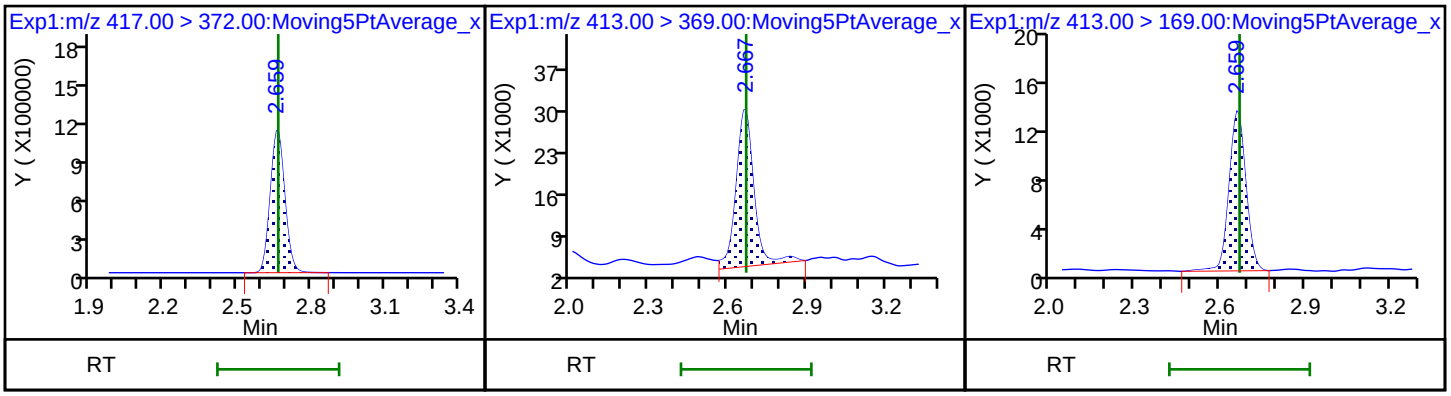
65 Adona



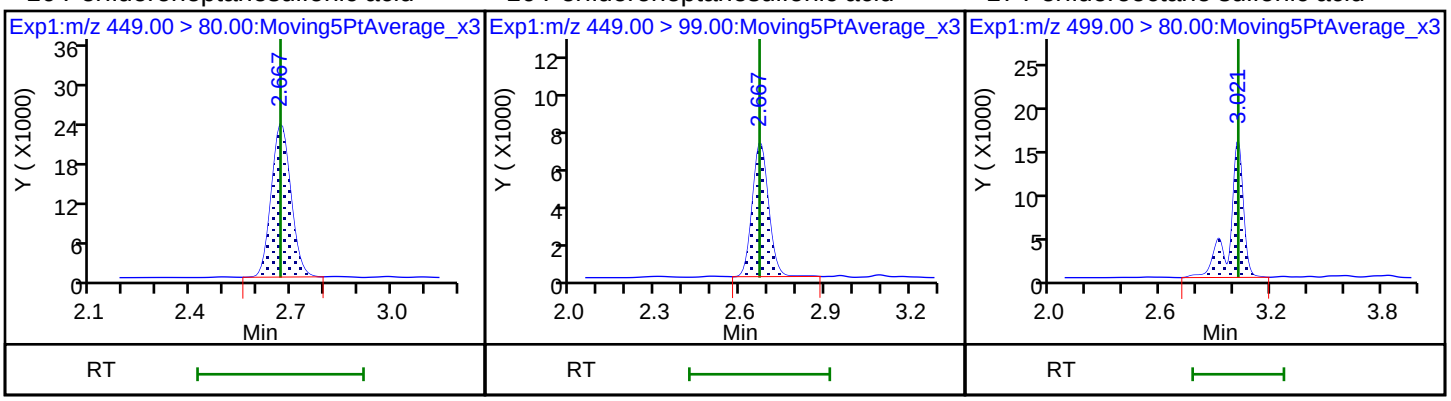
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



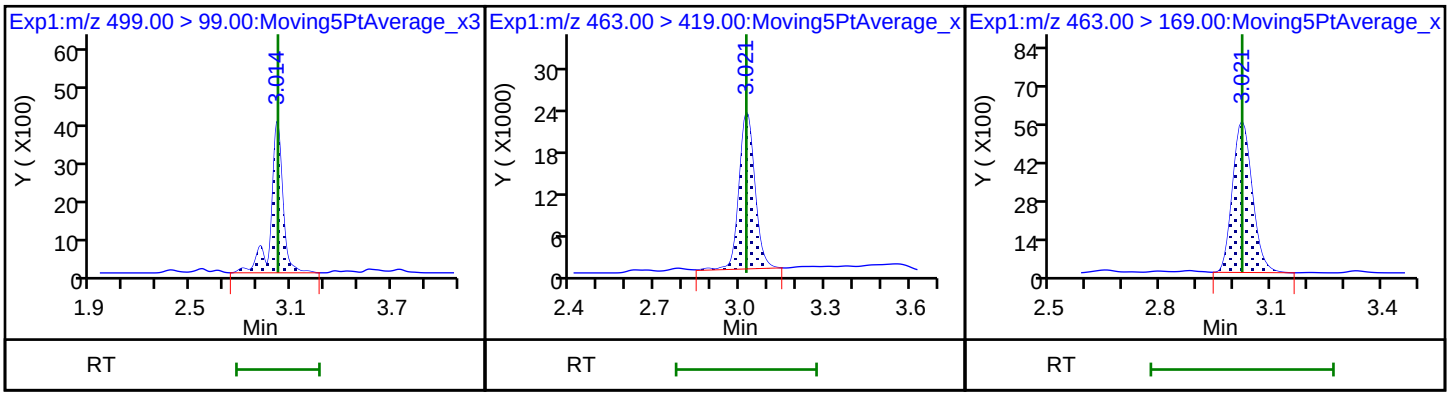
D 14 13C4 PFOA 15 Perfluorooctanoic acid 15 Perfluorooctanoic acid



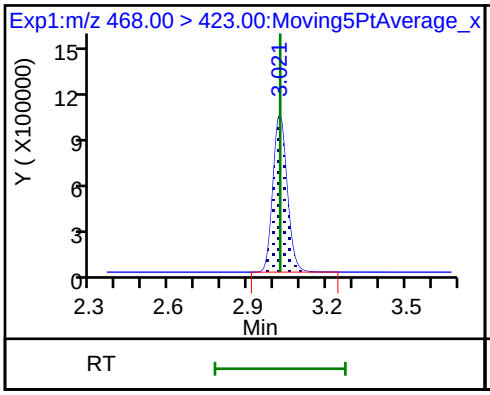
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



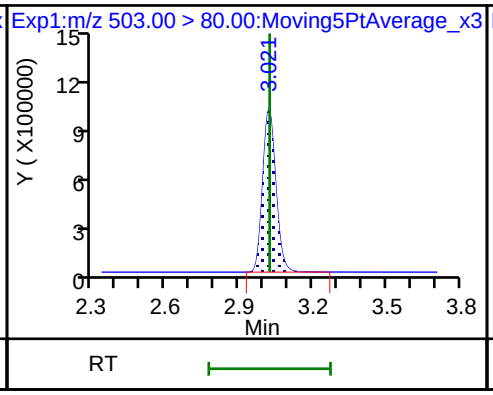
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



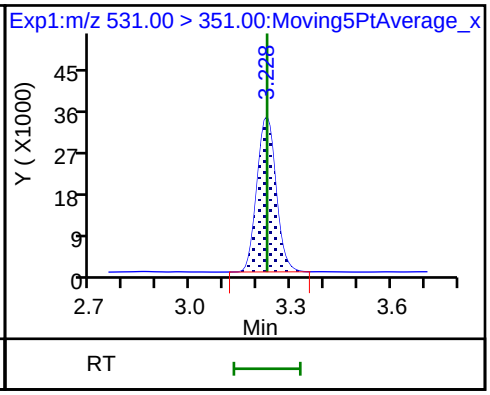
D 19 13C5 PFNA



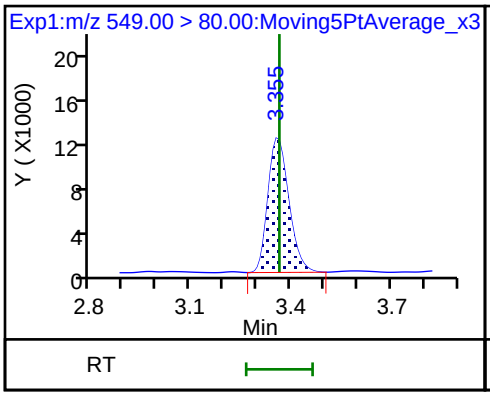
D 18 13C4 PFOS



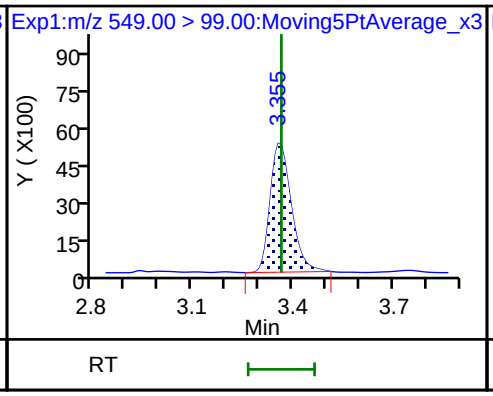
69 9-Chlorohexadecafluoro-3-oxanonane



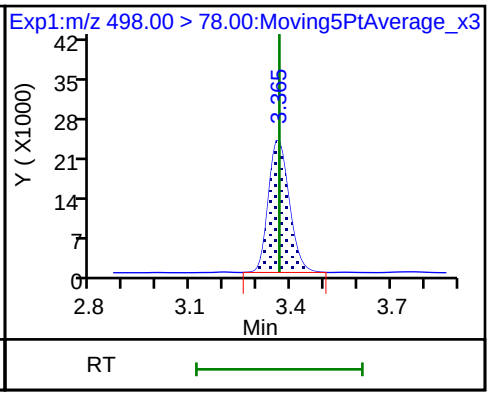
68 Perfluorononanesulfonic acid



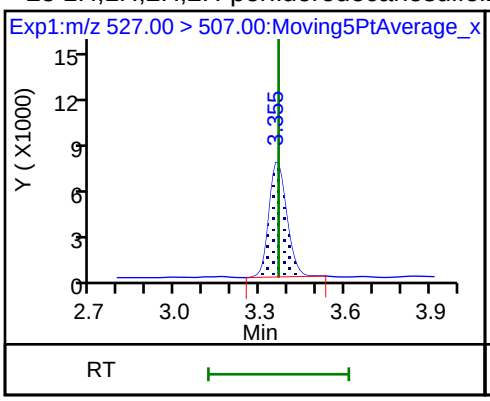
68 Perfluorononanesulfonic acid



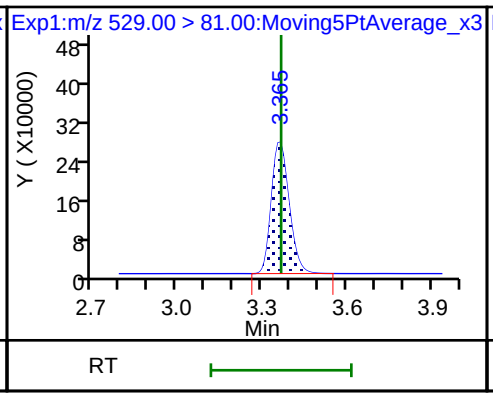
22 Perfluorooctane Sulfonamide



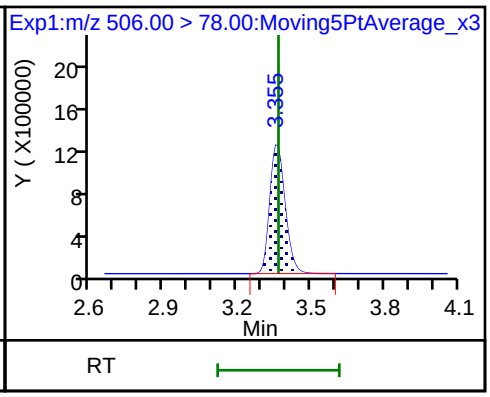
25 1H,1H,2H,2H-perfluorodecanesulfon



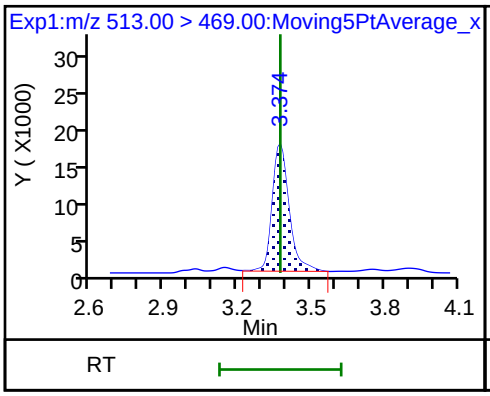
D 26 M2-8:2FTS



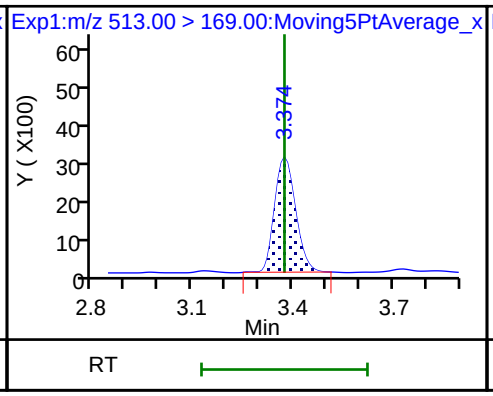
D 21 13C8 FOSA



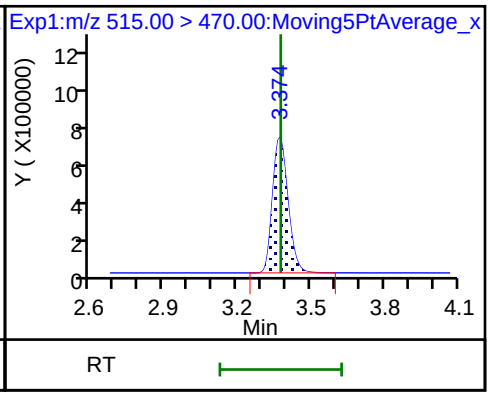
24 Perfluorodecanoic acid



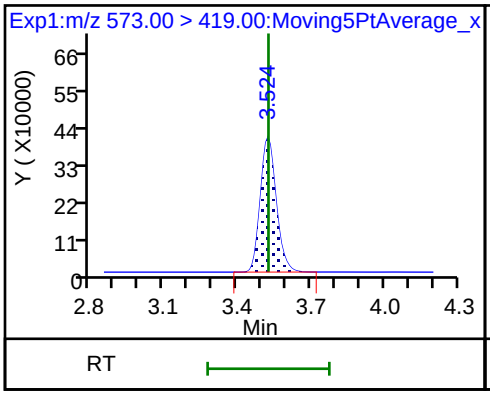
24 Perfluorodecanoic acid



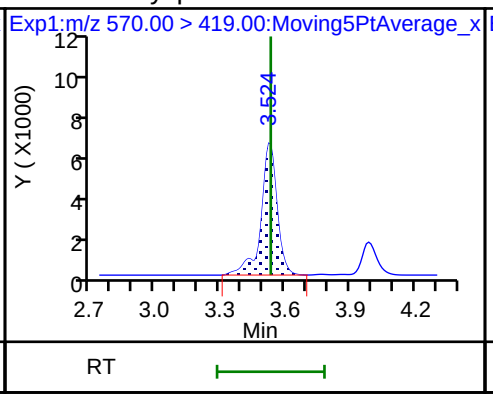
D 23 13C2 PFDA



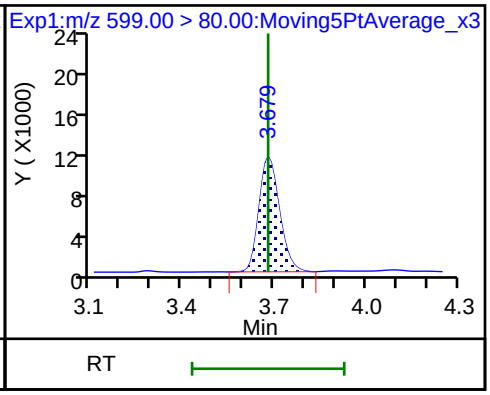
D 27 d3-NMeFOSAA



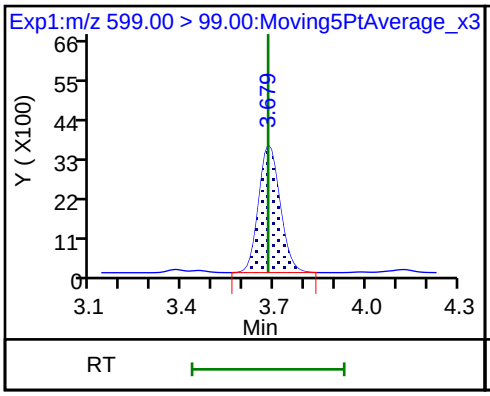
28 N-methyl perfluorooctane sulfonami



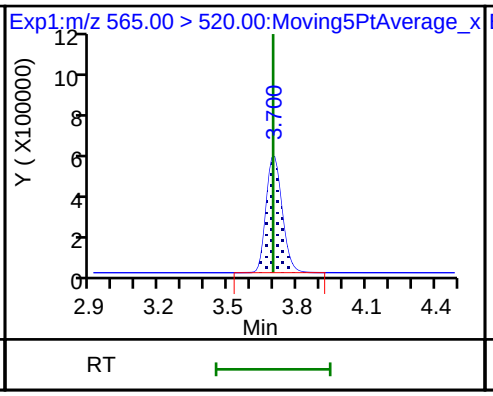
29 Perfluorodecane Sulfonic acid



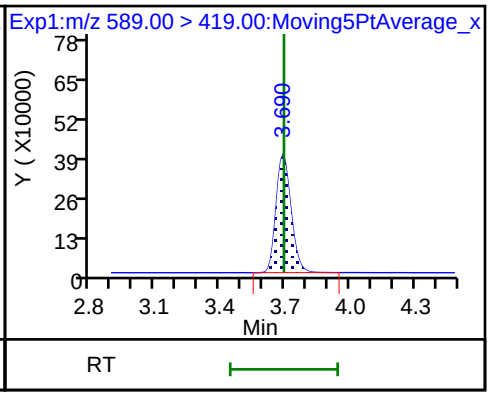
29 Perfluorodecane Sulfonic acid



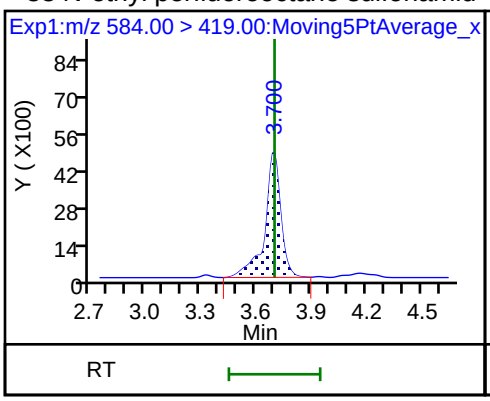
D 30 13C2 PFUnA



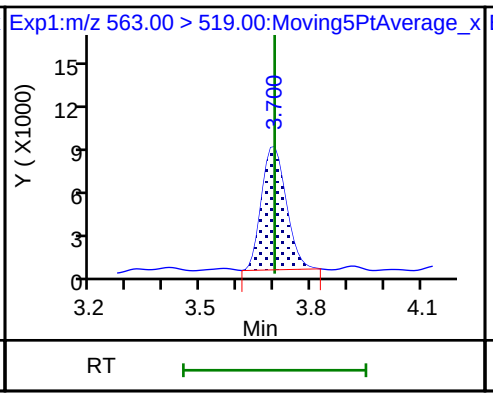
D 32 d5-NEtFOSAA



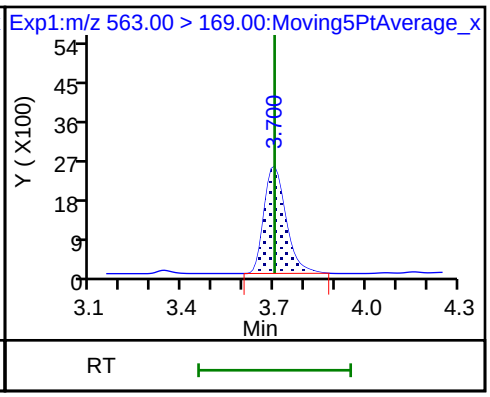
33 N-ethyl perfluorooctane sulfonamid



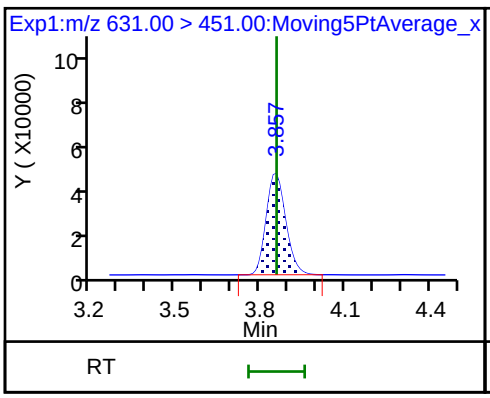
31 Perfluoroundecanoic acid



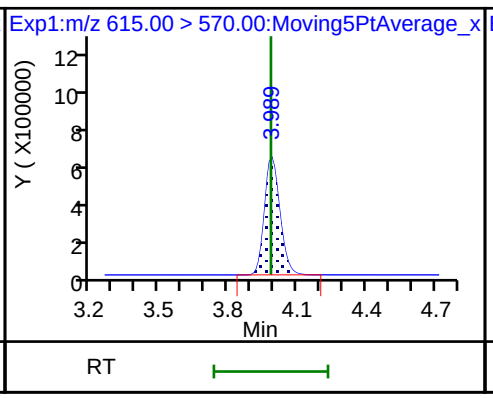
31 Perfluoroundecanoic acid



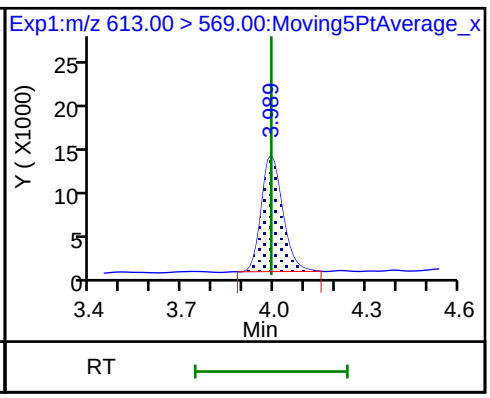
66 11-Chloroeicosafluoro-3-oxaundecan



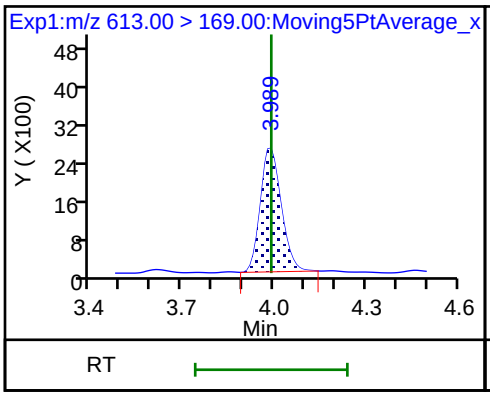
D 36 13C2 PFDoA



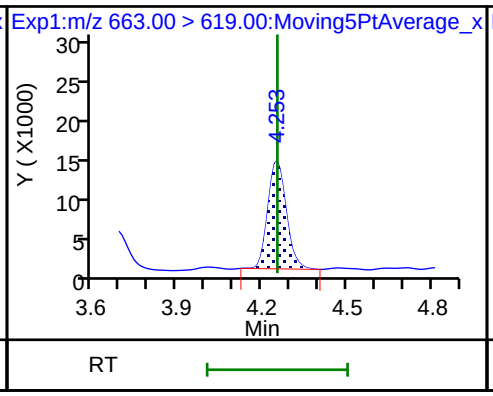
37 Perfluorododecanoic acid



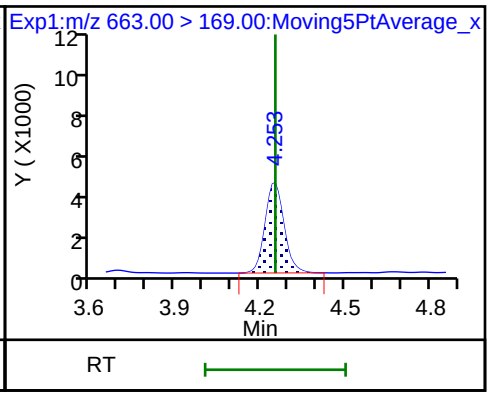
37 Perfluorododecanoic acid



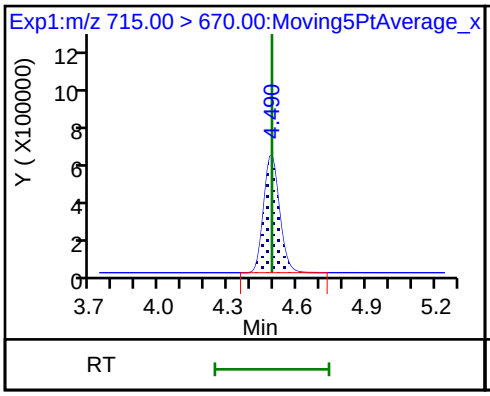
41 Perfluorotridecanoic acid



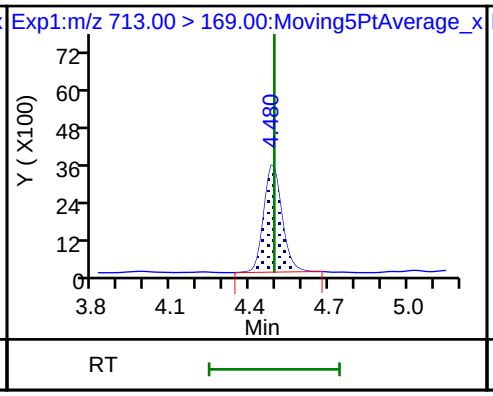
41 Perfluorotridecanoic acid



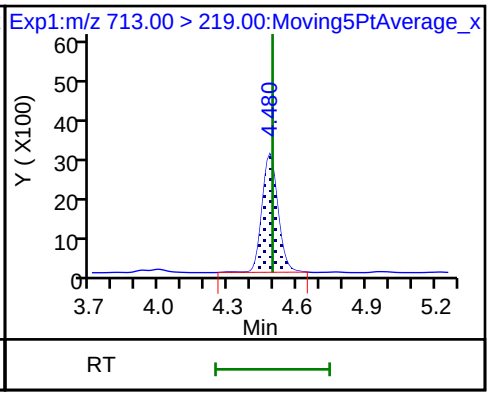
D 43 13C2-PFTeDA



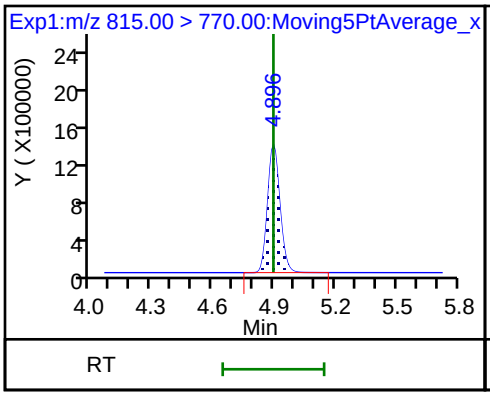
42 Perfluorotetradecanoic acid



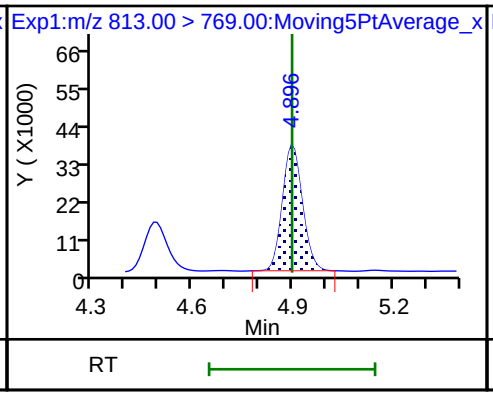
42 Perfluorotetradecanoic acid



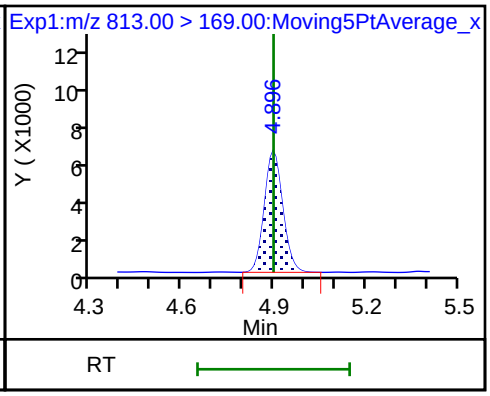
D 44 13C2-PFHxDA



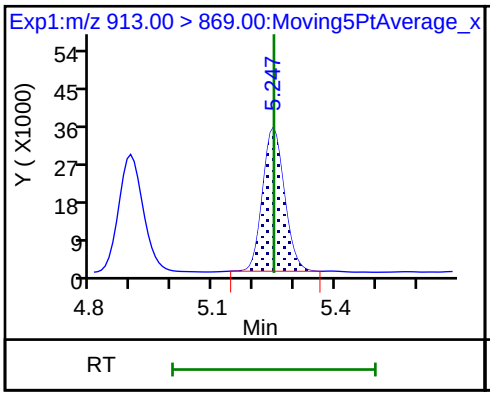
45 Perfluorohexadecanoic acid



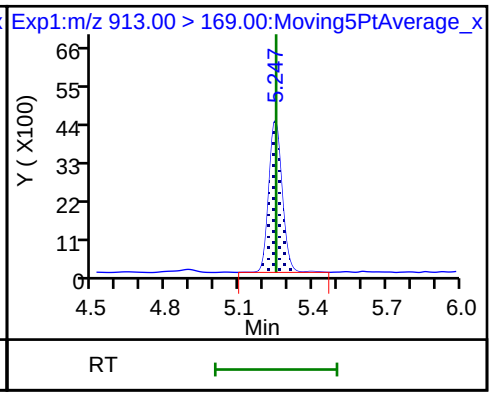
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

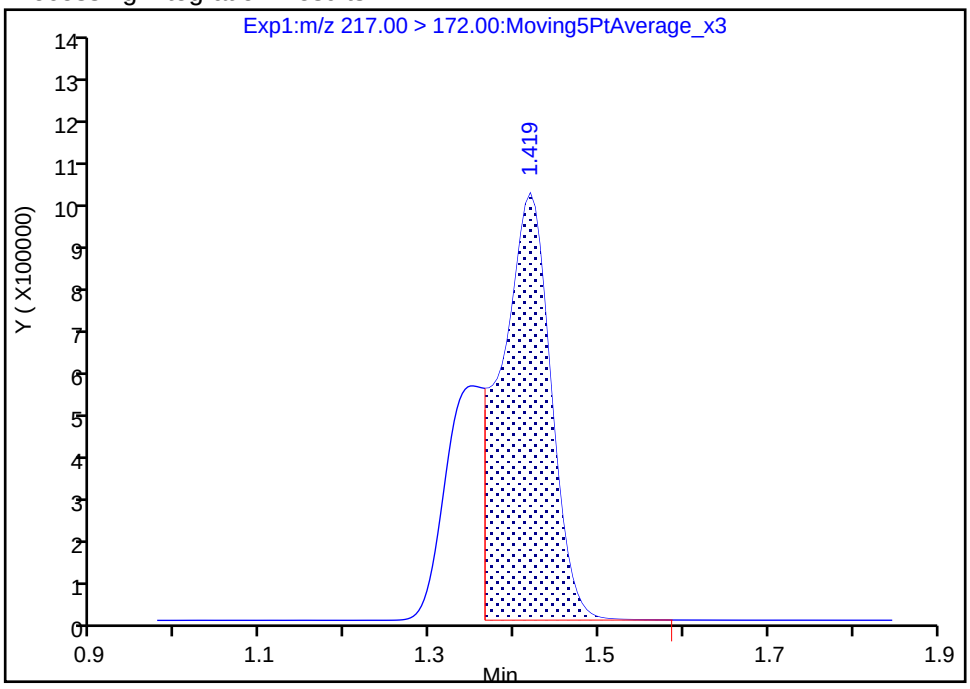
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_005.d
Injection Date: 10-Jul-2018 20:14:21 Instrument ID: A8_N
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

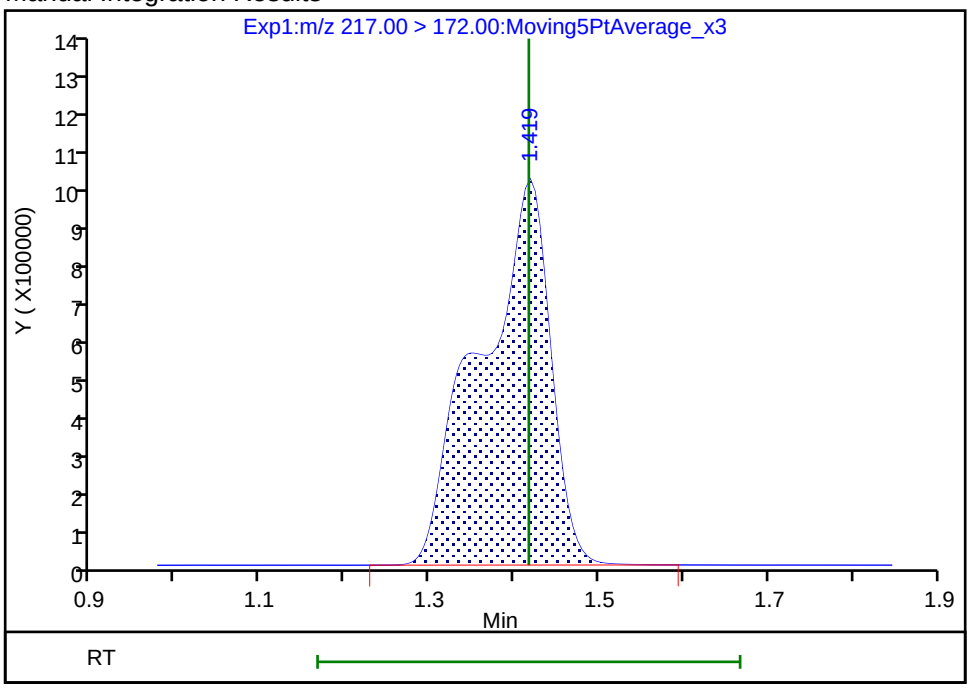
Processing Integration Results

RT: 1.42
Area: 4009232
Amount: 1.651807
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5701867
Amount: 2.349173
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jul-2018 14:49:22
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233302/3 Calibration Date: 07/10/2018 20:22

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.9810		0.960	1.00	-4.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.144		0.961	1.00	-3.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	74.47		0.868	0.884	-1.8	50.0
4:2 FTS	AveID	15.68	16.63		0.991	0.934	6.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.003		0.985	1.00	-1.5	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	69.39		1.00	0.938	7.0	50.0
HFPO-DA (GenX)	AveID	2.299	2.181		0.949	1.00	-5.1	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.055		0.934	1.00	-6.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.068		0.841	0.910	-7.6	40.0
ADONA	AveID	3.706	4.078		1.04	0.942	10.0	50.0
6:2 FTS	AveID	1.567	1.636		0.990	0.948	4.4	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.155		0.975	1.00	-2.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.389		0.987	0.952	3.7	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.111		1.03	1.00	3.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.153		0.916	0.928	-1.3	40.0
F-53B Major	AveID	1.891	1.866		0.920	0.932	-1.3	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.7791		0.920	0.960	-4.1	50.0
8:2 FTS	AveID	1.321	1.246		0.903	0.958	-5.7	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	1.035		1.04	1.00	4.4	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.036		0.994	1.00	-0.6	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.041		1.01	1.00	1.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6715		0.900	0.964	-6.7	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8583		0.952	1.00	-4.8	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8201		0.965	1.00	-3.5	40.0
F-53B Minor	AveID	2.884	3.118		1.02	0.942	8.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.155		1.05	1.00	4.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.083		0.882	1.00	-11.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2674		0.987	1.00	-1.3	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9529		0.980	1.00	-2.0	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.148		0.986	1.00	-1.4	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233302/3 Calibration Date: 07/10/2018 20:22

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_006.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.384	1.273		2.30	2.50	-8.0	50.0
13C5 PFPeA	Ave	1.025	0.9338		2.28	2.50	-8.9	50.0
13C3-PFBS	Ave	0.0245	0.0228		2.16	2.33	-7.0	50.0
M2-4:2FTS	Ave	0.1575	0.1583		2.35	2.34	0.5	50.0
13C2 PFHxA	Ave	1.097	1.052		2.40	2.50	-4.1	50.0
13C3 HFPO-DA	Ave	0.0899	0.0858		2.39	2.50	-4.5	50.0
13C4-PFHpA	Ave	0.9735	1.007		2.58	2.50	3.4	50.0
18O2 PFHxS	Ave	1.198	1.209		2.39	2.37	0.9	50.0
M2-6:2FTS	Ave	0.2186	0.2199		2.39	2.38	0.6	40.0
13C4 PFOA	Ave	0.9539	0.9580		2.51	2.50	0.4	50.0
13C4 PFOS	Ave	0.8551	0.8287		2.32	2.39	-3.1	50.0
13C5 PFNA	Ave	0.8109	0.8217		2.53	2.50	1.3	50.0
13C8 FOSA	Ave	1.187	1.114		2.35	2.50	-6.1	50.0
M2-8:2FTS	Ave	0.2431	0.2535		2.50	2.40	4.3	40.0
13C2 PFDA	Ave	0.6992	0.7076		2.53	2.50	1.2	50.0
d3-NMeFOSAA	Ave	0.4120	0.3896		2.36	2.50	-5.4	50.0
d5-NEtFOSAA	Ave	0.4070	0.4012		2.46	2.50	-1.4	50.0
13C2 PFUnA	Ave	0.5873	0.5677		2.42	2.50	-3.3	50.0
13C2 PFDoA	Ave	0.6294	0.6008		2.39	2.50	-4.5	50.0
13C2-PFTeDA	Ave	0.7673	0.7081		2.31	2.50	-7.7	50.0
13C2-PFHxDA	Ave	1.420	1.392		2.45	2.50	-1.9	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 20:22:10 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 14:51:35 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK002

First Level Reviewer: ruangyotsakuld Date: 11-Jul-2018 14:51:18

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.417	1.417	0.0	0.533	5377223	2.30		92.0	23100	M
2 Perfluorobutyric acid										
212.90 > 169.00	1.417	1.417	0.0	1.000	2110103	0.9605		96.0	1053	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.708	1.708	0.0	1.000	1804957	0.9605		96.1	1385	
D 3 13C5-PFPeA										
267.90 > 223.00	1.708	1.717	-0.008	0.642	3944910	2.28		91.1	43881	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.753	0.0	0.659	89494	2.16		93.0	652	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.753	1.753	0.0	1.000	2533973	0.8684		98.2	16092	
298.90 > 99.00	1.753	1.753	0.0	1.000	1025627		2.47(1.25-3.74)		8668	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.967	0.0	0.740	624697	2.35		100	8467	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.967	0.0	1.122	597950	0.99		106	34886	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	2.000	0.0	1.000	1781898	0.9846		98.5	4813	
313.00 > 119.00	2.000	2.000	0.0	1.000	159665		11.16(5.03-15.10)		3939	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	2.011	-0.011	0.752	4443383	2.40		95.9	70413	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	2505508	1.00		107	33266	
349.00 > 99.00	2.022	2.022	0.0	1.154	930108		2.69(1.36-4.07)		13395	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.090	0.0	1.000	316385	0.9489		94.9	2498	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.101	-0.011	0.786	362589	2.39		95.5	6433	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.316	0.0	0.871	4252248	2.58		103	32465	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.316	0.0	1.000	1794028	0.9336		93.4	2471	
363.00 > 169.00	2.316	2.316	0.0	1.000	692404		2.59(1.13-3.40)		5206	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.329	0.0	0.876	4830205	2.39		101	33448	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.329	0.0	1.000	1985831	0.8409		92.4	11858	
399.00 > 99.00	2.329	2.329	0.0	1.000	675634		2.94(1.50-4.49)		4861	
65 Adona										
377.00 > 251.00	2.355	2.355	0.0	0.781	5379803	1.04		110	44057	
377.00 > 85.00	2.355	2.355	0.0	0.781	3084240		1.74(0.84-2.53)		35313	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.635	0.0	1.000	576280	0.99		104	2834	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.643	-0.008	0.991	882353	2.39		101	18588	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.659	0.0		4224633	2.50			36147	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.659	0.0	1.000	1872165	0.9753		97.4	609	
413.00 > 169.00	2.659	2.659	0.0	1.000	971737		1.93(0.84-2.52)		4937	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.666	-0.007	1.000	4046970	2.51		100	35679	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.666	0.0	0.884	1852267	0.9875		104	17815	
449.00 > 99.00	2.666	2.666	0.0	0.884	498426		3.72(1.94-5.82)		8537	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.017	3.017	0.0	1.000	1497875	0.9156		98.7	10342	
499.00 > 99.00	3.017	3.017	0.0	1.000	329440		4.55(2.31-6.93)		6332	
20 Perfluorononanoic acid										
463.00 > 419.00	3.017	3.017	0.0	1.000	1543122	1.03		103	3801	
463.00 > 169.00	3.017	3.017	0.0	1.000	366494		4.21(1.90-5.69)		13710	
D 19 13C5 PFNA										
468.00 > 423.00	3.017	3.022	-0.005	1.135	3471329	2.53		101	54214	
D 18 13C4 PFOS										
503.00 > 80.00	3.017	3.022	-0.005	1.135	3347070	2.32		96.9	30520	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.223	3.223	0.0	1.068	2435208	0.9198		98.7	38331	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.351	3.351	0.0	1.111	1047378	0.9203		95.9	20188	
549.00 > 99.00	3.351	3.351	0.0	1.111	382830		2.74(1.33-3.97)		9684	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.360	3.360	0.0	1.003	1948756	1.04		104	26094	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.360	3.360	0.0	1.000	511260	0.9035		94.3	14352	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.360	3.367	-0.007	1.264	1025815	2.50		104	16595	
D 21 13C8 FOSA										
506.00 > 78.00	3.351	3.367	-0.016	1.261	4706419	2.35		93.9	59565	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.370	3.370	0.0	1.000	1239012	0.99		99.4	5612	
513.00 > 169.00	3.370	3.370	0.0	1.000	212822		5.82(2.36-7.09)		9726	
D 23 13C2 PFDA										
515.00 > 470.00	3.370	3.376	-0.006	1.268	2989486	2.53		101	33993	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.519	3.526	-0.007	1.324	1646080	2.36		94.6	25924	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.529	0.0	1.003	685527	1.01		101	5814	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.676	3.676	0.0	1.218	906555	0.8997		93.3	13749	
599.00 > 99.00	3.676	3.676	0.0	1.218	320938		2.82(1.39-4.16)		8558	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.687	3.687	0.0	0.997	786814	0.9647		96.5	3577	
563.00 > 169.00	3.687	3.687	0.0	0.997	193907		4.06(2.12-6.36)		5715	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.687	3.687	0.0	1.000	581960	0.9519		95.2	9951	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.687	3.694	-0.007	1.387	1695053	2.46		98.6	12557	
D 30 13C2 PFUnA										
565.00 > 520.00	3.697	3.694	0.003	1.391	2398462	2.42		96.7	33221	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.844	3.844	0.0	1.274	4112861	1.02		108	37215	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.985	0.003	1.500	2538193	2.39		95.5	13713	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.988	0.0	1.000	1172478	1.05		105	1440	
613.00 > 169.00	3.988	3.988	0.0	1.000	263346		4.45(2.13-6.40)		6862	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.241	4.241	0.0	1.064	1099525	0.8823		88.2	1293	
663.00 > 169.00	4.241	4.241	0.0	1.064	354309		3.10(1.25-3.76)		6015	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.480	4.480	0.0	1.000	319893	0.9874		98.7	5561	
713.00 > 219.00	4.480	4.480	0.0	1.000	214347		1.49(0.71-2.13)		6342	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.480	4.489	-0.009	1.685	2991288	2.31		92.3	15763	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.887	4.887	0.0	1.000	2241723	0.9803		98.0	1161	
813.00 > 169.00	4.887	4.887	0.0	1.000	364229		6.15(2.86-8.58)		4146	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.887	4.895	-0.008	1.838	5881344	2.45		98.1	13587	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.240	5.240	0.0	1.072	2699773	0.9859		98.6	983	
913.00 > 169.00	5.240	5.240	0.0	1.072	323854		8.34(3.83-11.48)		4367	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 14:51:36 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d

Injection Date: 10-Jul-2018 20:22:10 Instrument ID: A8_N

Lims ID: CCV L4

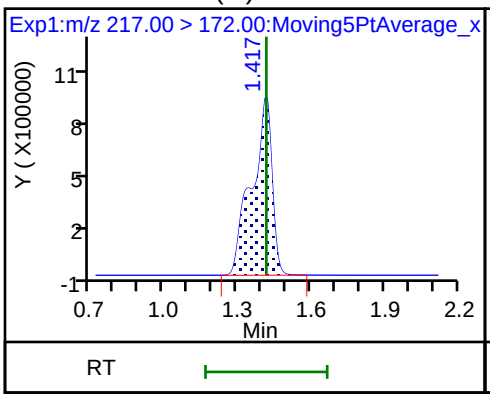
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3

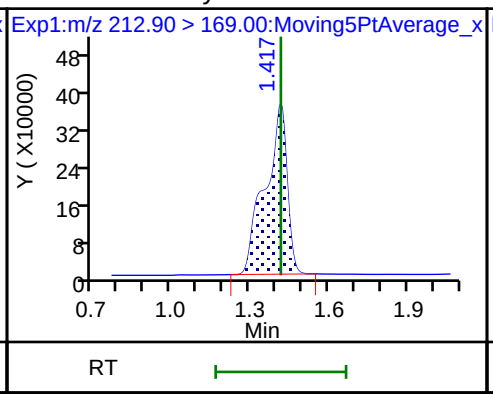
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

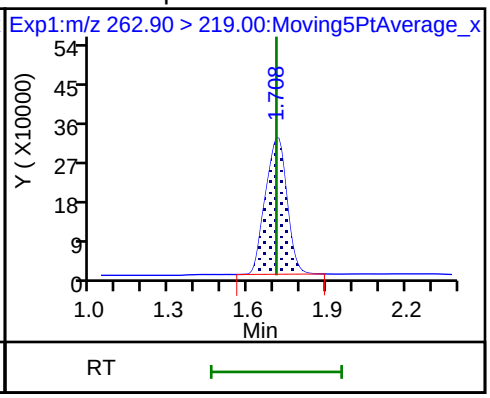
D 1 13C4 PFBA (M)



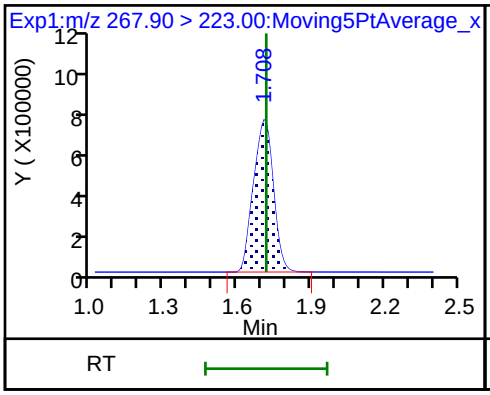
2 Perfluorobutyric acid



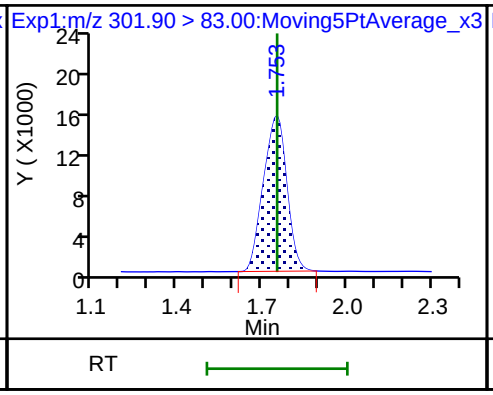
4 Perfluoropentanoic acid



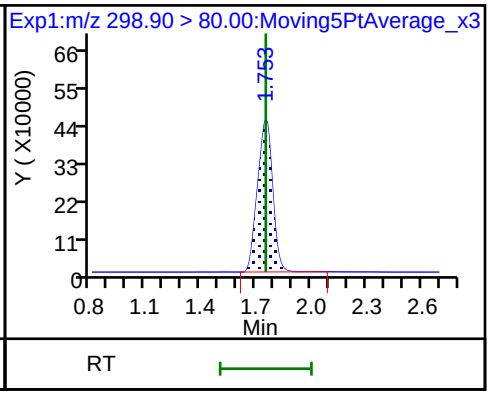
D 3 13C5-PFPeA



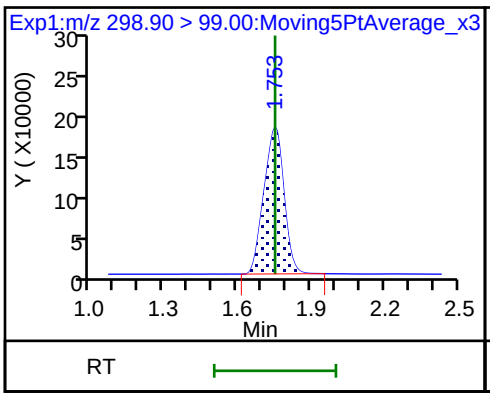
D 47 13C3-PFBS



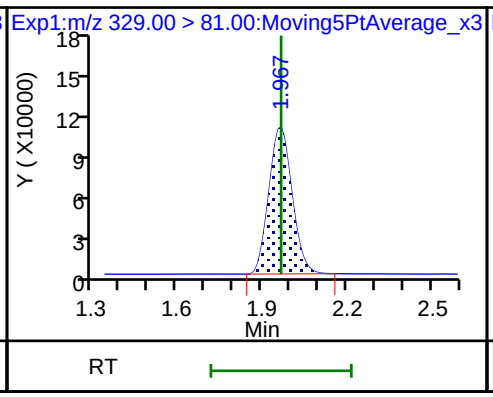
5 Perfluorobutanesulfonic acid



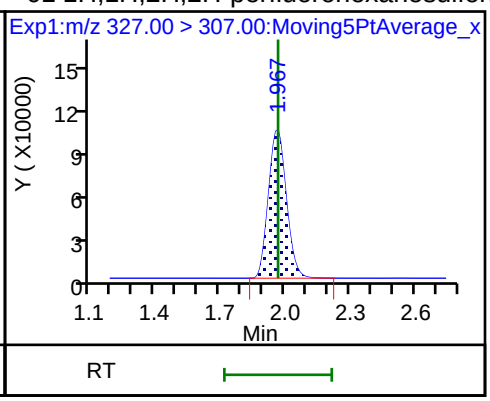
5 Perfluorobutanesulfonic acid



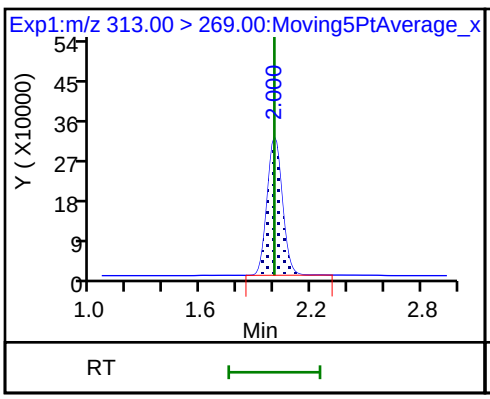
D 60 M2-4:2FTS



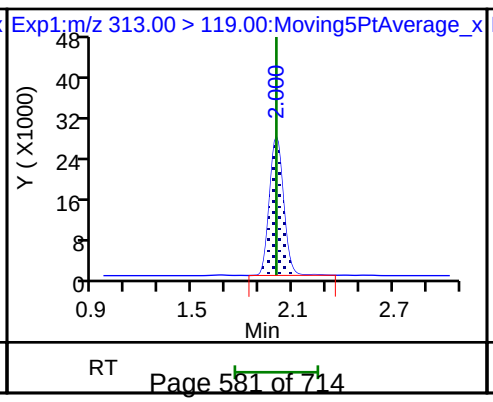
61 1H,1H,2H,2H-perfluorohexanesulfoni



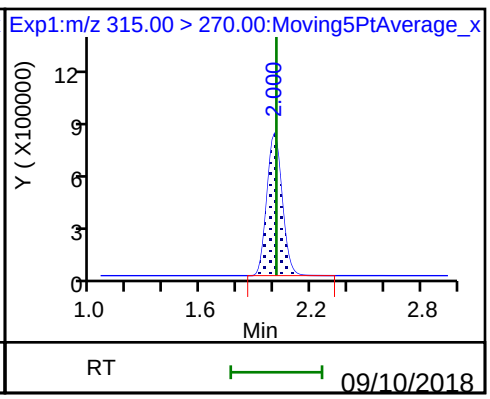
6 Perfluorohexanoic acid



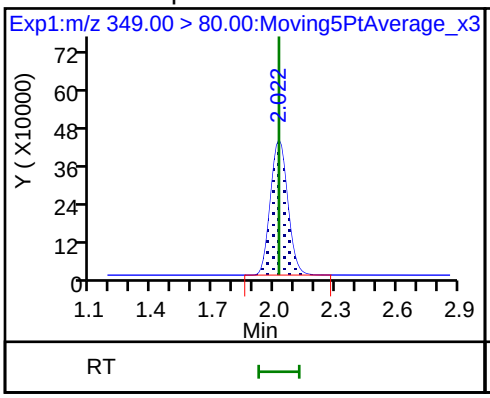
6 Perfluorohexanoic acid



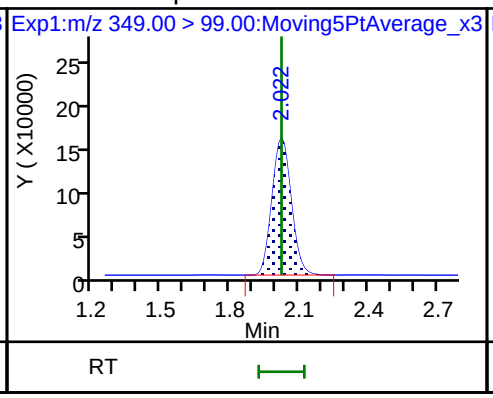
D 7 13C2 PFHxA



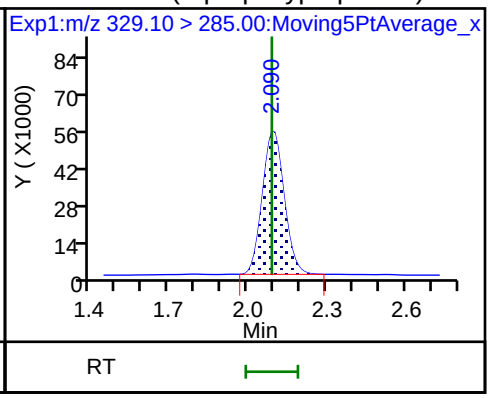
70 Perfluoropentanesulfonic acid



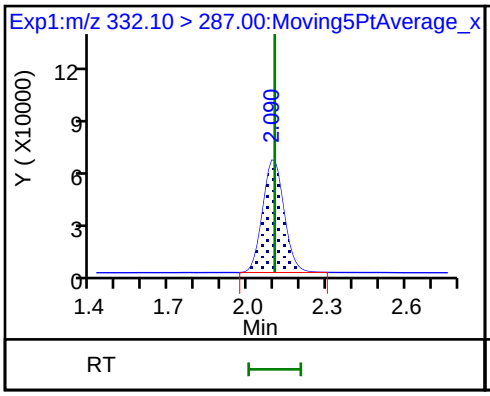
70 Perfluoropentanesulfonic acid



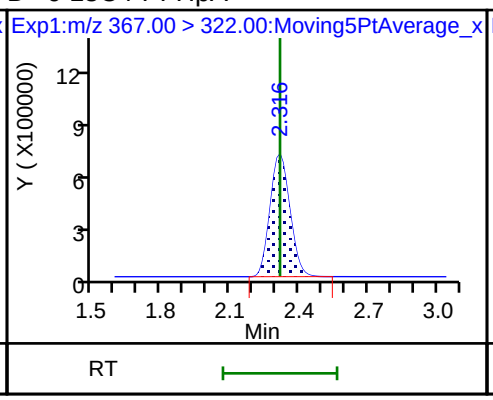
67 Perfluoro(2-propoxypropanoic) acid



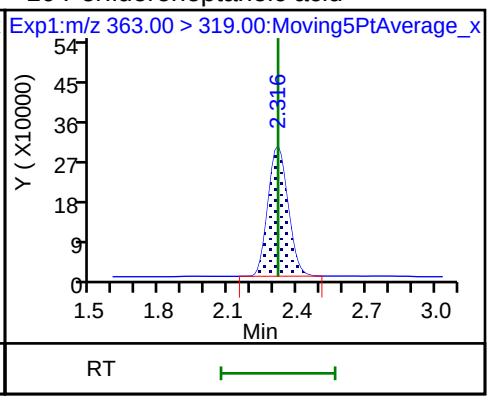
D 64 13C3 HFPO-DA



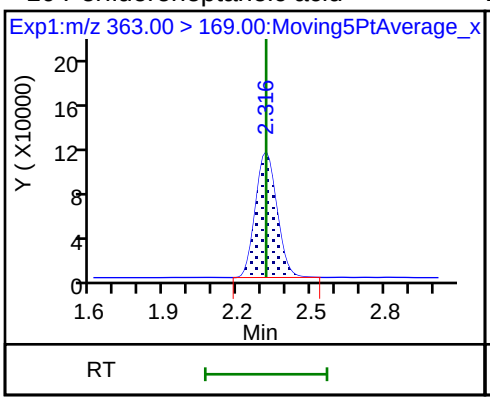
D 9 13C4-PFHpA



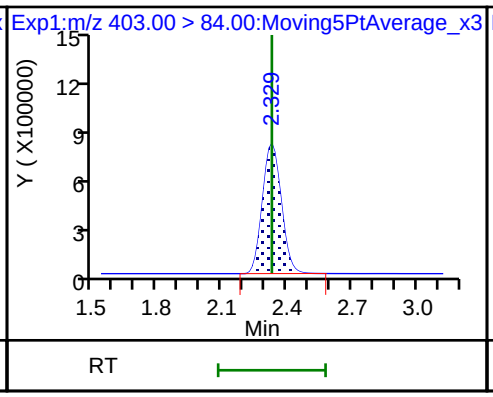
10 Perfluoroheptanoic acid



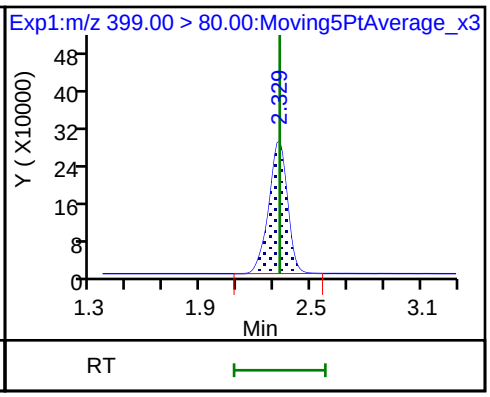
10 Perfluoroheptanoic acid



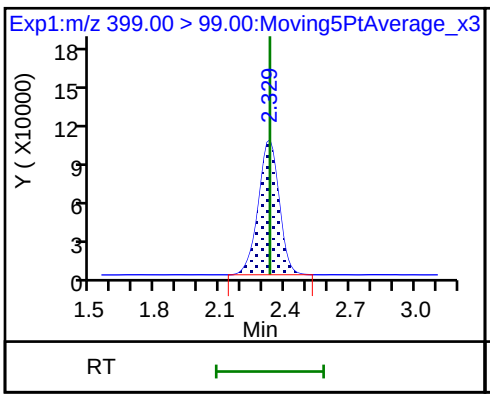
D 11 18O2 PFHxS



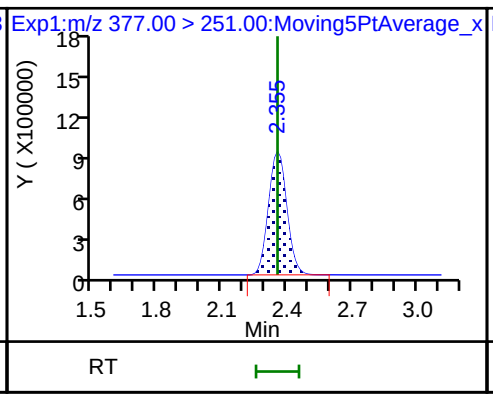
8 Perfluorohexanesulfonic acid



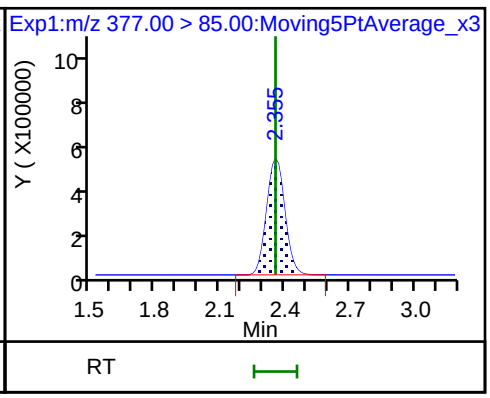
8 Perfluorohexanesulfonic acid



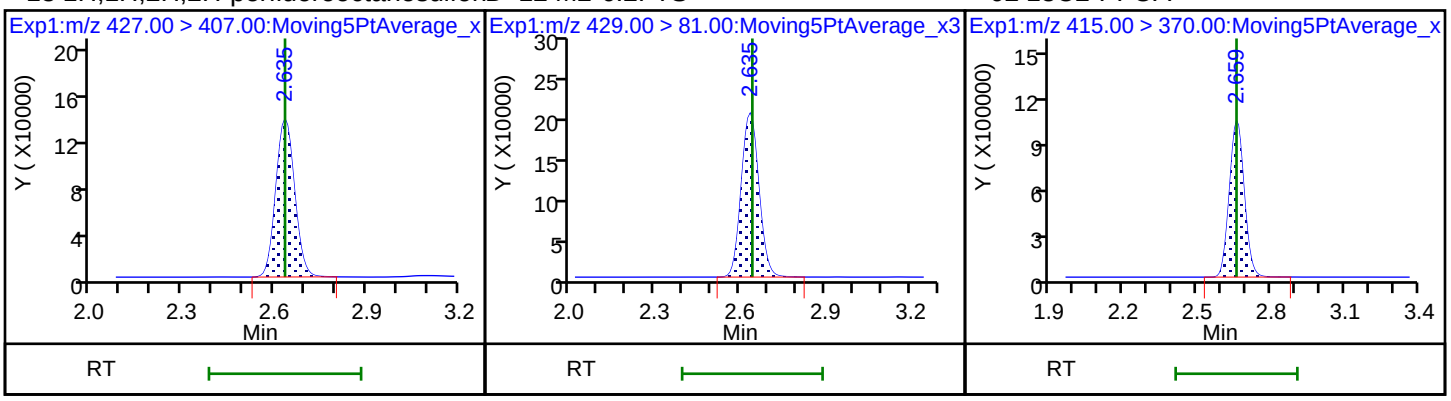
65 Adona



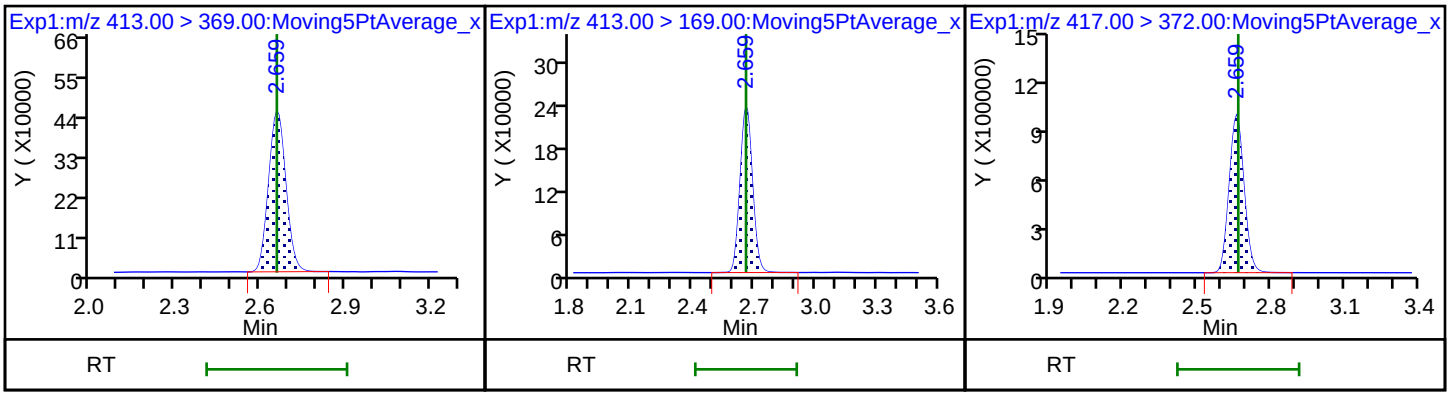
65 Adona



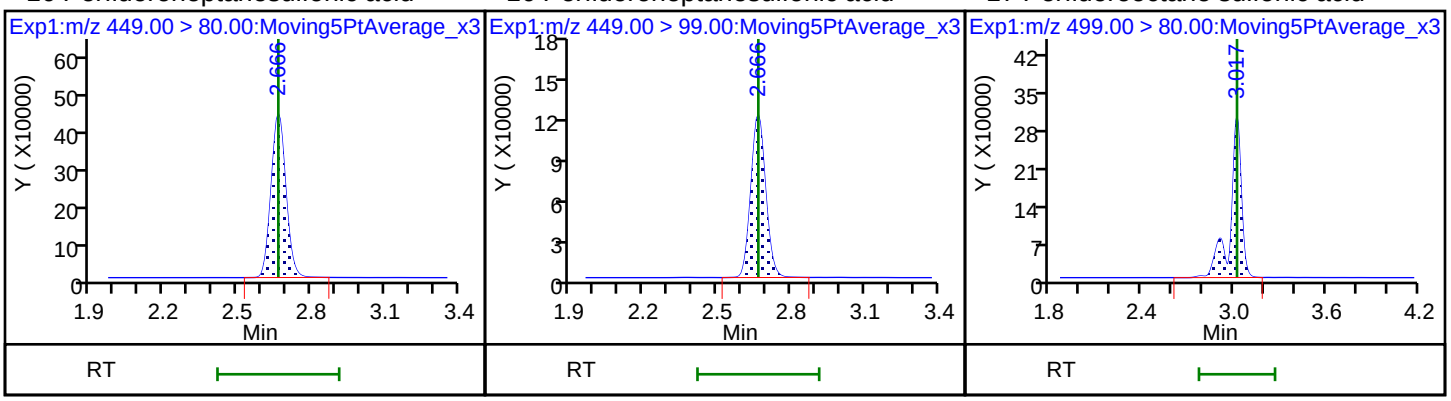
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



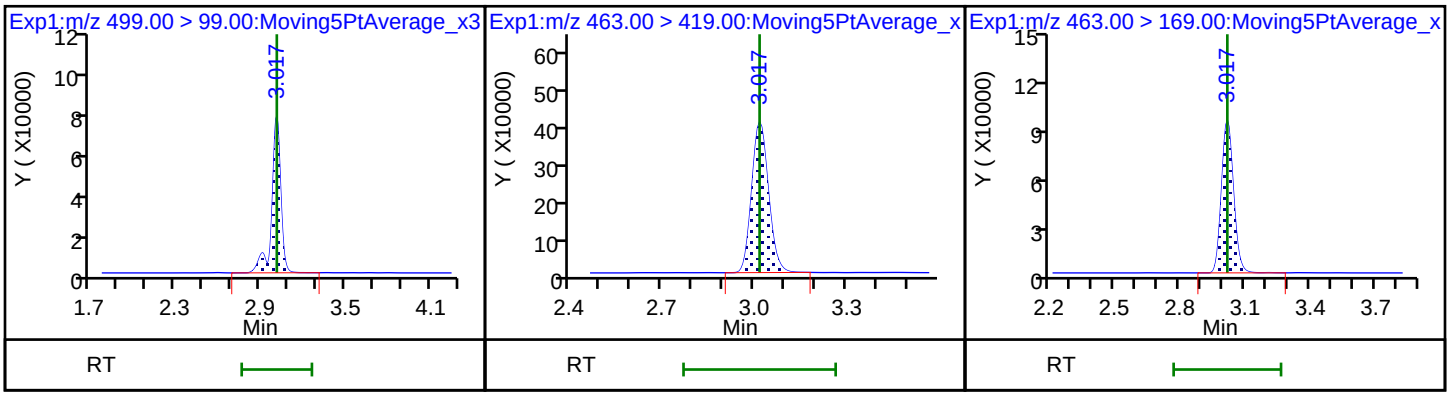
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



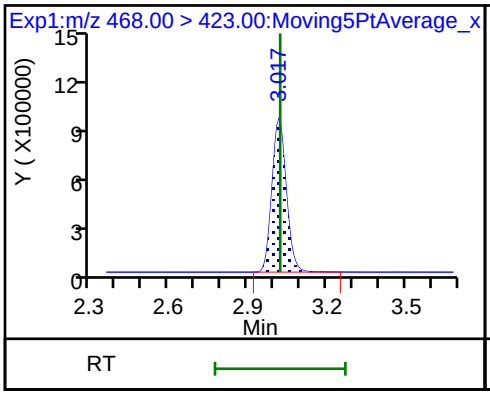
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



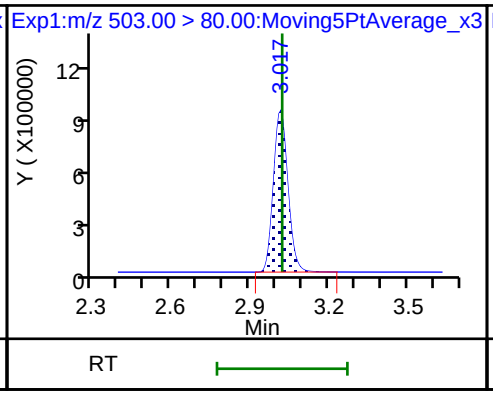
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



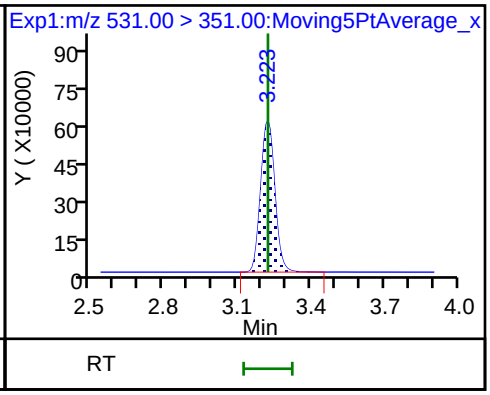
D 19 13C5 PFNA



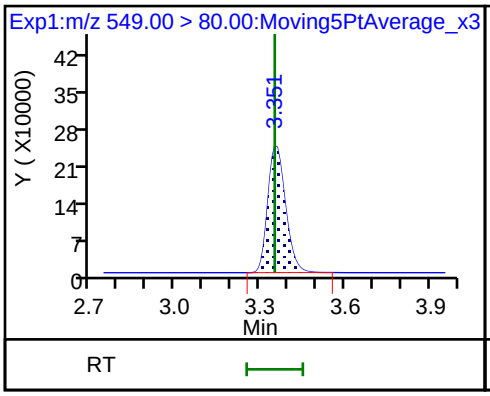
D 18 13C4 PFOS



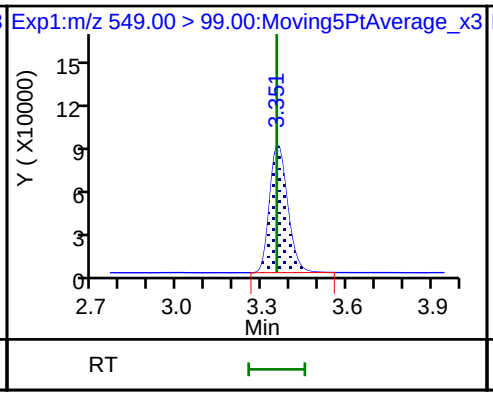
69 9-Chlorohexadecafluoro-3-oxanonane



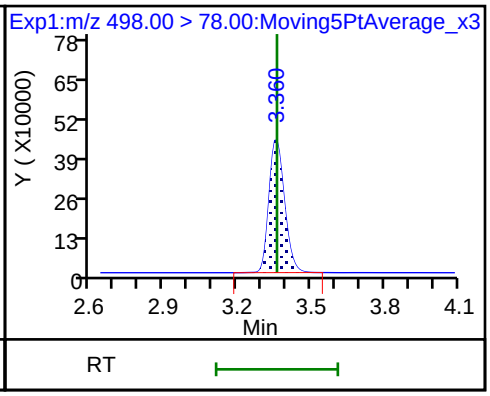
68 Perfluorononanesulfonic acid



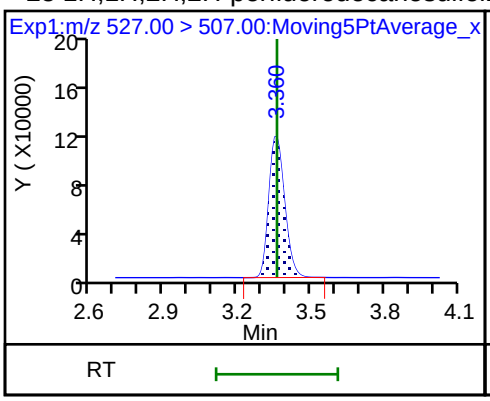
68 Perfluorononanesulfonic acid



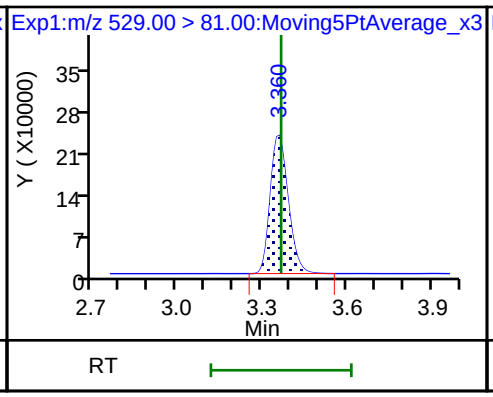
22 Perfluorooctane Sulfonamide



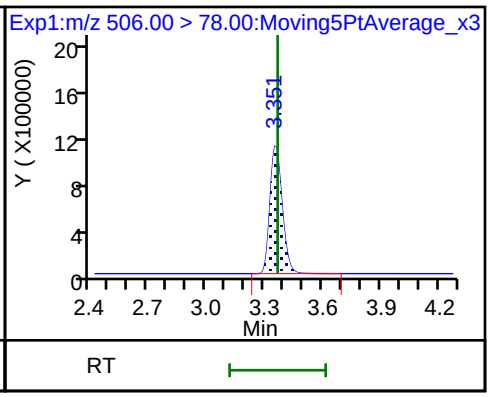
25 1H,1H,2H,2H-perfluorodecanesulfon



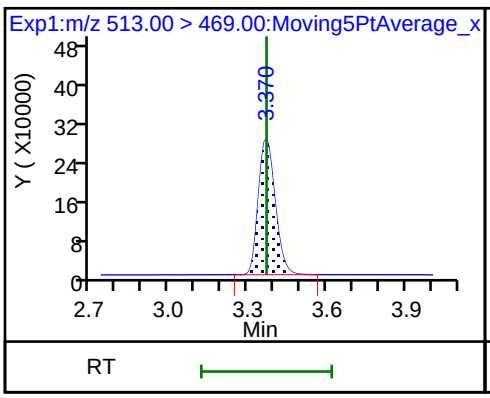
D 26 M2-8:2FTS



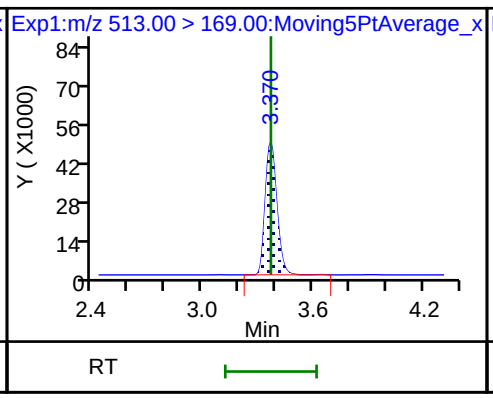
D 21 13C8 FOSA



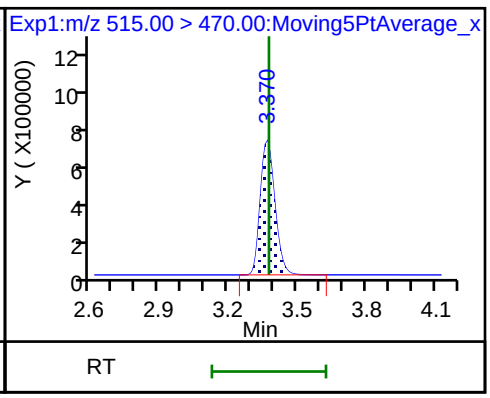
24 Perfluorodecanoic acid



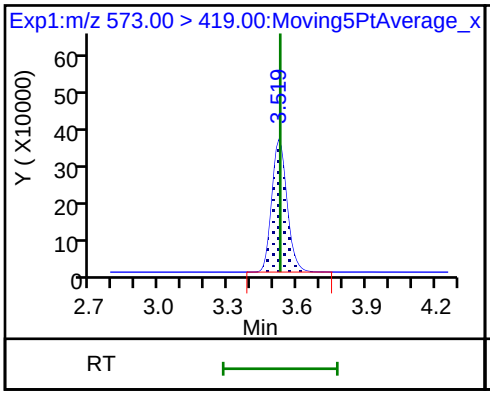
24 Perfluorodecanoic acid



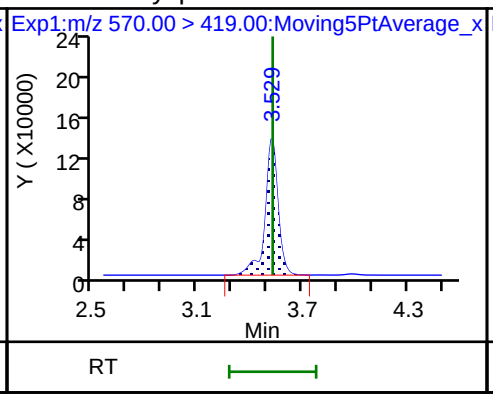
D 23 13C2 PFDA



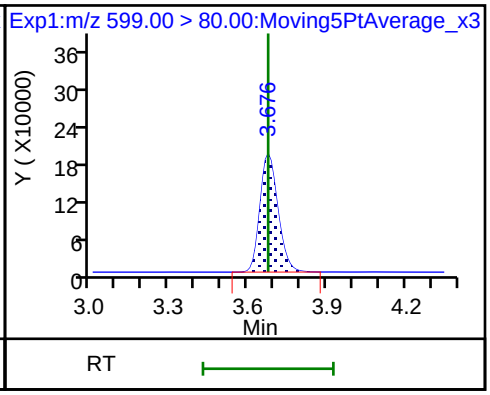
D 27 d3-NMeFOSAA



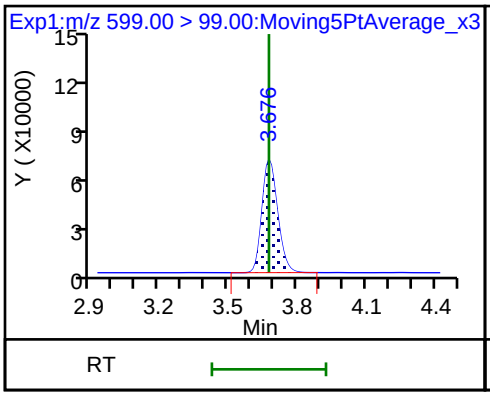
28 N-methyl perfluorooctane sulfonami



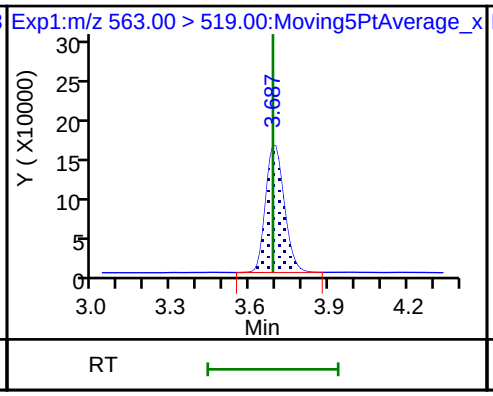
29 Perfluorodecane Sulfonic acid



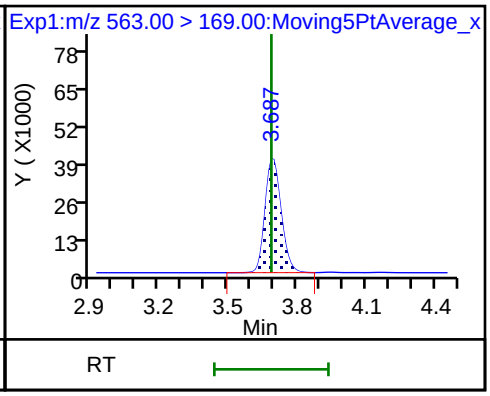
29 Perfluorodecane Sulfonic acid



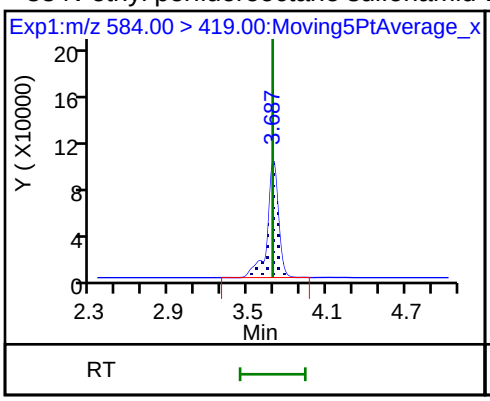
31 Perfluoroundecanoic acid



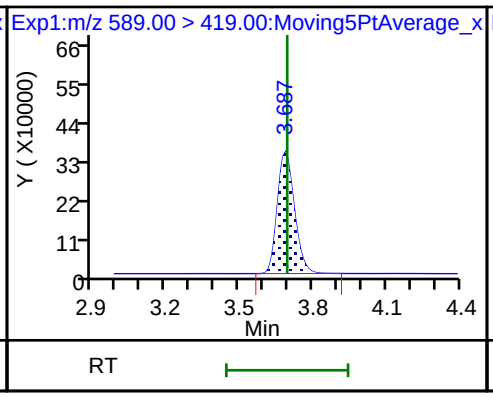
31 Perfluoroundecanoic acid



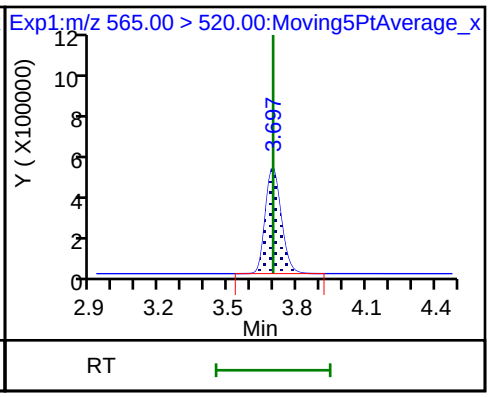
33 N-ethyl perfluorooctane sulfonamid



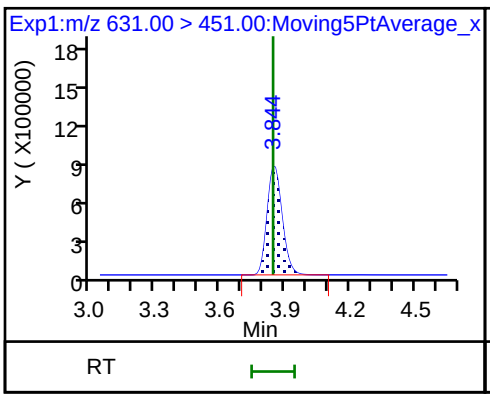
D 32 d5-NEtFOSAA



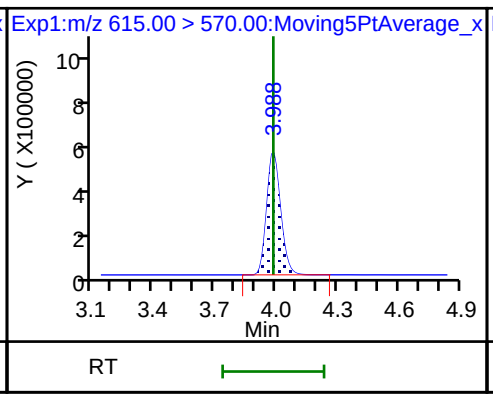
D 30 13C2 PFUnA



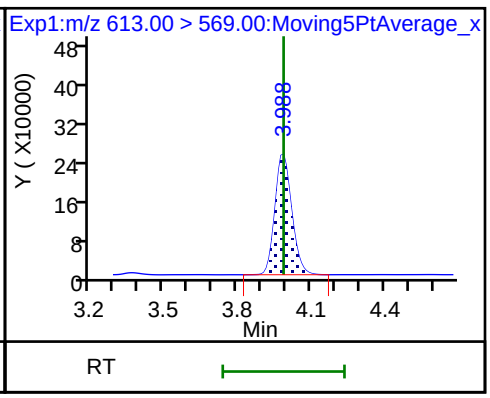
66 11-Chloroeicosafluoro-3-oxaundecan



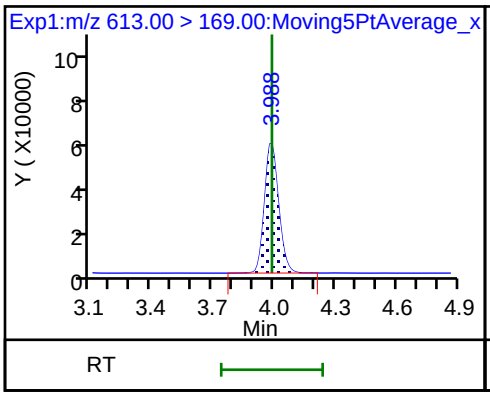
D 36 13C2 PFDoA



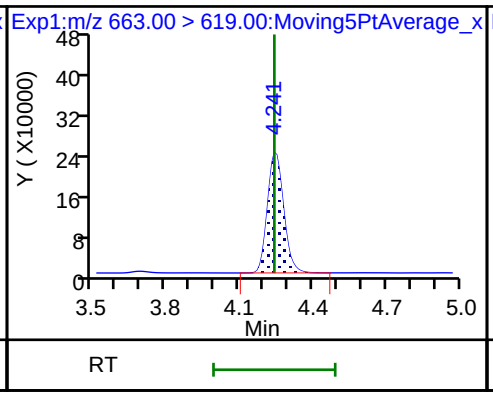
37 Perfluorododecanoic acid



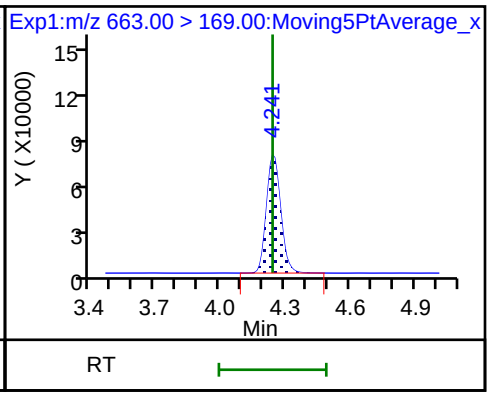
37 Perfluorododecanoic acid



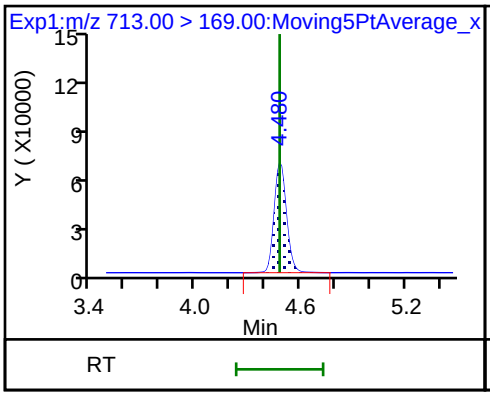
41 Perfluorotridecanoic acid



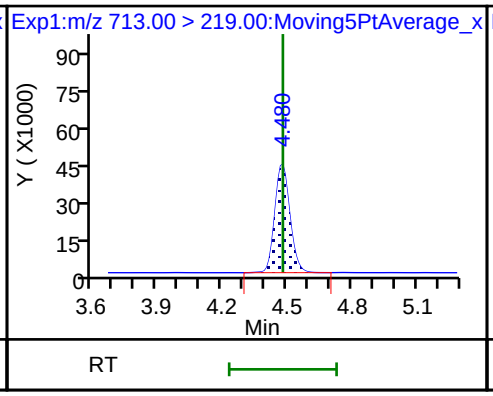
41 Perfluorotridecanoic acid



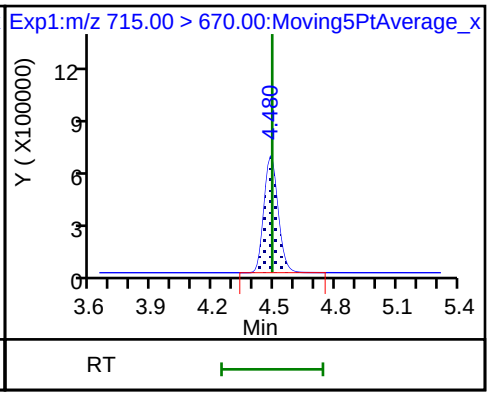
42 Perfluorotetradecanoic acid



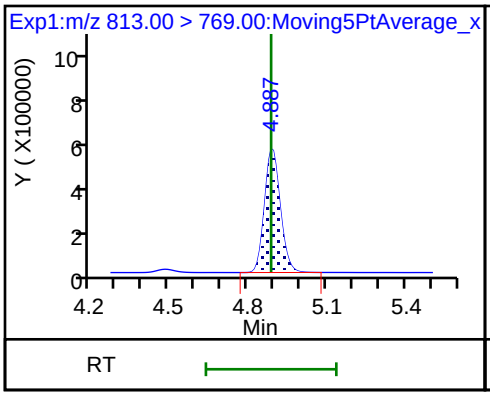
42 Perfluorotetradecanoic acid



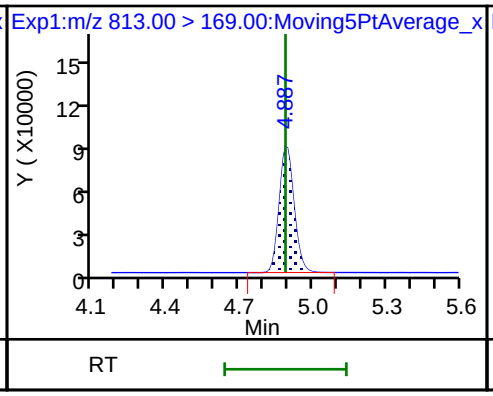
D 43 13C2-PFTeDA



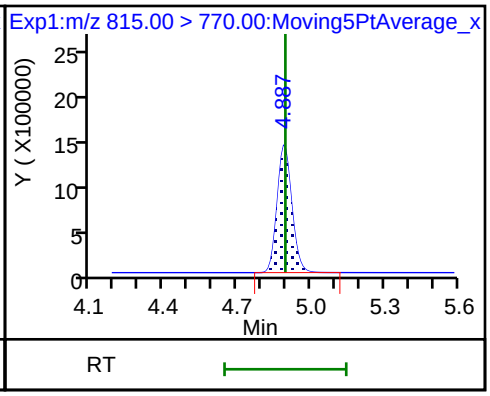
45 Perfluorohexadecanoic acid



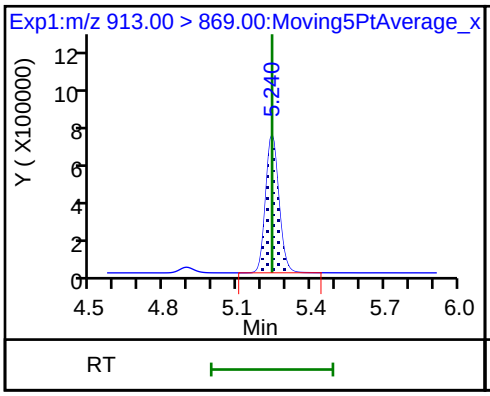
45 Perfluorohexadecanoic acid



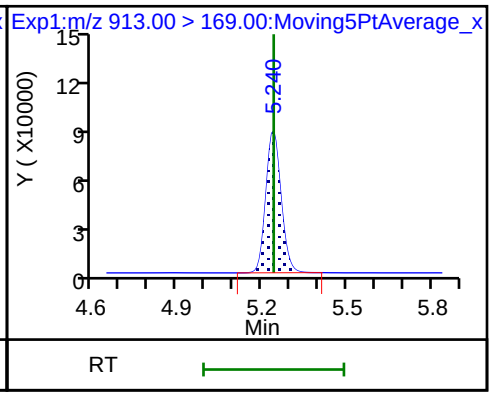
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

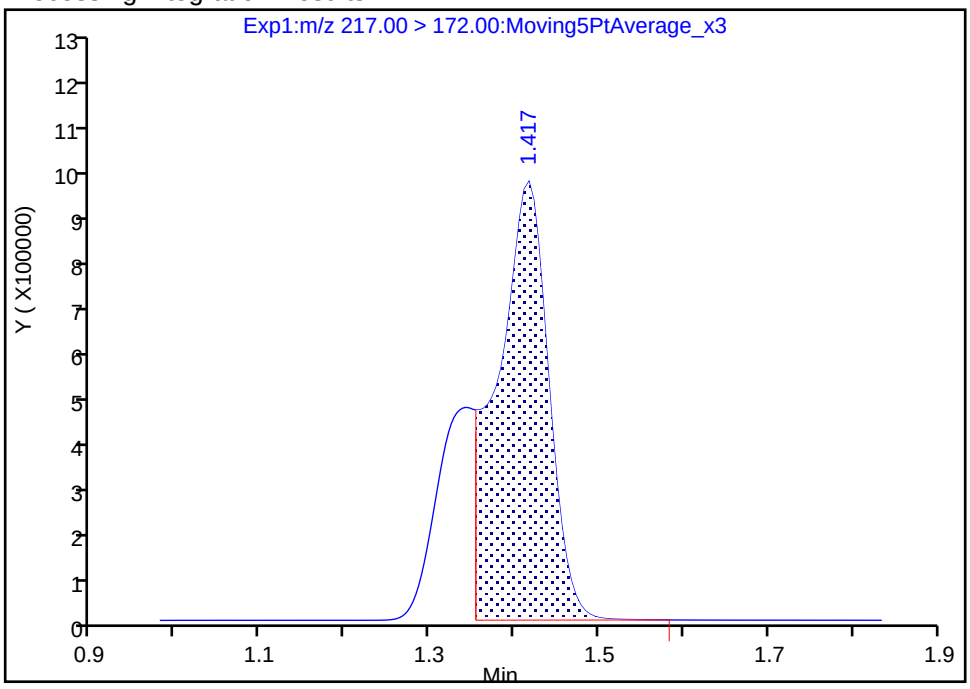
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60876.b\2018.07.10LLB_006.d
Injection Date: 10-Jul-2018 20:22:10 Instrument ID: A8_N
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

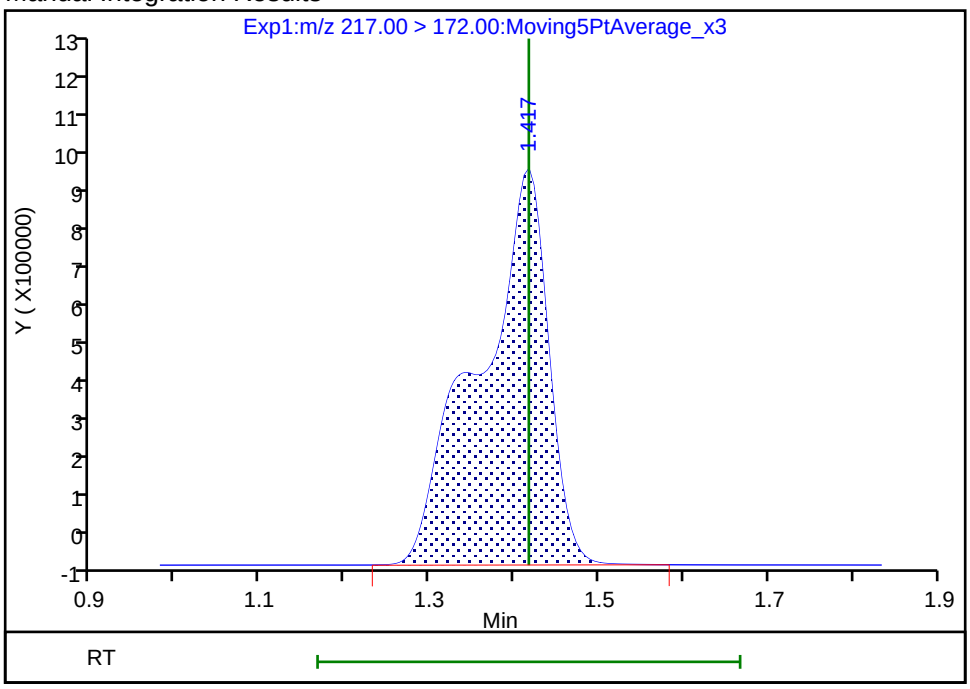
Processing Integration Results

RT: 1.42
Area: 3945996
Amount: 1.686928
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5377223
Amount: 2.298782
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 11-Jul-2018 14:51:05
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/1 Calibration Date: 07/11/2018 01:43

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_047.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.9939		0.973	1.00	-2.7	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.145		0.962	1.00	-3.8	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	78.03		0.910	0.884	2.9	50.0
4:2 FTS	AveID	15.68	16.60		0.988	0.934	5.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.012		0.994	1.00	-0.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	67.03		0.970	0.938	3.4	50.0
HFPO-DA (GenX)	AveID	2.299	2.545		1.11	1.00	10.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.076		0.953	1.00	-4.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.093		0.861	0.910	-5.4	40.0
ADONA	AveID	3.706	4.038		1.03	0.942	9.0	50.0
6:2 FTS	AveID	1.567	1.498		0.906	0.948	-4.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.389		0.987	0.952	3.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.174		0.991	1.00	-1.0	40.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.049		0.973	1.00	-2.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.147		0.911	0.928	-1.8	40.0
F-53B Major	AveID	1.891	1.804		0.889	0.932	-4.6	50.0
8:2 FTS	AveID	1.321	1.221		0.885	0.958	-7.6	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.8005		0.946	0.960	-1.5	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	0.9737		0.982	1.00	-1.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.021		0.979	1.00	-2.1	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.008		0.979	1.00	-2.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.6937		0.929	0.964	-3.6	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8399		0.931	1.00	-6.9	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.9108		1.07	1.00	7.1	40.0
F-53B Minor	AveID	2.884	3.199		1.04	0.942	10.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.092		0.991	1.00	-0.9	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.036		0.844	1.00	-15.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2504		0.925	1.00	-7.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9798		1.01	1.00	0.9	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.181		1.01	1.00	1.5	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/1 Calibration Date: 07/11/2018 01:43

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_047.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.384	1.275		2.30	2.50	-7.9	50.0
13C5 PFPeA	Ave	1.025	0.9673		2.36	2.50	-5.6	50.0
13C3-PFBS	Ave	0.0245	0.0227		2.16	2.33	-7.2	50.0
M2-4:2FTS	Ave	0.1575	0.1606		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.097	1.037		2.36	2.50	-5.5	50.0
13C3 HFPO-DA	Ave	0.0899	0.0792		2.20	2.50	-11.8	50.0
13C4-PFHpA	Ave	0.9735	0.9432		2.42	2.50	-3.1	50.0
18O2 PFHxS	Ave	1.198	1.221		2.41	2.37	1.9	50.0
M2-6:2FTS	Ave	0.2186	0.2348		2.55	2.38	7.4	40.0
13C4 PFOA	Ave	0.9539	0.9579		2.51	2.50	0.4	50.0
13C4 PFOS	Ave	0.8551	0.8223		2.30	2.39	-3.8	50.0
13C5 PFNA	Ave	0.8109	0.8056		2.48	2.50	-0.7	50.0
13C8 FOSA	Ave	1.187	1.196		2.52	2.50	0.7	50.0
M2-8:2FTS	Ave	0.2431	0.2551		2.51	2.40	4.9	40.0
13C2 PFDA	Ave	0.6992	0.7055		2.52	2.50	0.9	50.0
d3-NMeFOSAA	Ave	0.4120	0.3919		2.38	2.50	-4.9	50.0
13C2 PFUnA	Ave	0.5873	0.5494		2.34	2.50	-6.5	50.0
d5-NEtFOSAA	Ave	0.4070	0.4093		2.51	2.50	0.6	50.0
13C2 PFDoA	Ave	0.6294	0.6404		2.54	2.50	1.7	50.0
13C2-PFTeDA	Ave	0.7673	0.7003		2.28	2.50	-8.7	50.0
13C2-PFHxDA	Ave	1.420	1.362		2.40	2.50	-4.1	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_047.d
Lims ID: CCV L4
Client ID:
Sample Type: CCV
Inject. Date: 11-Jul-2018 01:43:12 ALS Bottle#: 28 Worklist Smp#: 1
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:34:40 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:34:40

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.425	1.425	0.0	0.537	5199468	2.30		92.1	17135	
2 Perfluorobutyric acid										
212.90 > 169.00	1.425	1.425	0.0	1.000	2067135	0.9731		97.3	1160	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.712	0.0	1.000	1806574	0.9616		96.2	1384	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.712	0.0	0.645	3944035	2.36		94.4	35546	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.748	0.0	0.659	86220	2.16		92.8	743	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.748	1.748	0.0	1.000	2558148	0.9100		103	11258	
298.90 > 99.00	1.748	1.748	0.0	1.000	1000674		2.56(1.25-3.74)		9320	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.950	1.950	0.0	1.115	574794	0.9884		106	25569	
D 60 M2-4:2FTS										
329.00 > 81.00	1.960	1.961	-0.001	0.739	611403	2.38		102	9054	
6 Perfluorohexanoic acid										
313.00 > 269.00	1.993	1.993	0.0	1.000	1711475	0.99		99.4	3723	
313.00 > 119.00	1.993	1.993	0.0	1.000	156113		10.96(5.03-15.10)		3093	
D 7 13C2 PFHxA										
315.00 > 270.00	1.993	1.994	-0.001	0.751	4226467	2.36		94.5	43318	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.016	2.016	0.0	1.153	2331740	0.9696		103	28515	
349.00 > 99.00	2.016	2.016	0.0	1.153	853729		2.73(1.36-4.07)		13247	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.084	2.084	0.0	0.786	323023	2.20		88.2	8127	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.084	2.084	0.0	1.000	328827	1.11		111	1820	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.308	2.308	0.0	1.000	1655268	0.9525		95.3	2233	
363.00 > 169.00	2.308	2.308	0.0	1.000	675135		2.45(1.13-3.40)		4873	
D 9 13C4-PFHpA										
367.00 > 322.00	2.308	2.309	-0.001	0.870	3845495	2.42		96.9	30324	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.308	2.308	0.0	0.994	1981449	0.8606		94.6	10099	
399.00 > 99.00	2.308	2.308	0.0	0.994	653944		3.03(1.50-4.49)		4629	
D 11 18O2 PFHxS										
403.00 > 84.00	2.321	2.322	-0.001	0.875	4709631	2.41		102	40955	
65 Adona										
377.00 > 251.00	2.347	2.347	0.0	0.780	5101567	1.03		109	37589	
377.00 > 85.00	2.347	2.347	0.0	0.780	3042358		1.68(0.84-2.53)		32466	
D 12 M2-6:2FTS										
429.00 > 81.00	2.620	2.621	-0.001	0.988	909561	2.55		107	16396	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.620	2.620	0.0	1.000	543729	0.9063		95.6	2747	
* 62 13C2-PFOA										
415.00 > 370.00	2.652	2.652	0.0		4077182	2.50			30115	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.652	2.652	0.0	1.003	1836260	0.99		99.0	609	
413.00 > 169.00	2.652	2.652	0.0	1.003	924227		1.99(0.84-2.52)		3516	
D 14 13C4 PFOA										
417.00 > 372.00	2.644	2.653	-0.009	0.997	3905589	2.51		100	29402	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.652	2.652	0.0	0.881	1773596	0.9874		104	19055	
449.00 > 99.00	2.652	2.652	0.0	0.881	468176		3.79(1.94-5.82)		10088	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.009	3.009	0.0	1.000	1427219	0.9111		98.2	15758	
499.00 > 99.00	3.009	3.009	0.0	1.000	319211		4.47(2.31-6.93)		8168	
D 19 13C5 PFNA										
468.00 > 423.00	3.009	3.010	-0.001	1.134	3284633	2.48		99.3	37255	
D 18 13C4 PFOS										
503.00 > 80.00	3.009	3.010	-0.001	1.134	3205175	2.30		96.2	26107	
20 Perfluorononanoic acid										
463.00 > 419.00	3.009	3.009	0.0	1.000	1377580	0.9730		97.3	4725	
463.00 > 169.00	3.009	3.009	0.0	1.000	363960		3.78(1.90-5.69)		18907	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.214	3.214	0.0	1.068	2254288	0.8892		95.4	25483	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.350	3.350	0.0	1.000	486607	0.8855		92.4	9276	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.350	3.350	0.0	1.113	1030533	0.9456		98.5	16102	
549.00 > 99.00	3.350	3.350	0.0	1.113	403042		2.56(1.33-3.97)		7245	
D 26 M2-8:2FTS										
529.00 > 81.00	3.350	3.351	-0.001	1.263	996238	2.51		105	16420	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.350	3.351	-0.001	1.263	4875617	2.52		101	30769	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.350	3.350	0.0	1.000	1898923	0.9818		98.2	27626	
D 23 13C2 PFDA										
515.00 > 470.00	3.359	3.361	-0.002	1.266	2876381	2.52		101	30262	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.359	3.359	0.0	1.000	1174365	0.9793		97.9	5037	
513.00 > 169.00	3.359	3.359	0.0	1.000	213538		5.50(2.36-7.09)		8136	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.518	3.518	0.0	1.003	644318	0.9794		97.9	5183	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.509	3.519	-0.010	1.323	1597982	2.38		95.1	14613	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.675	3.675	0.0	1.221	896838	0.9294		96.4	17209	
599.00 > 99.00	3.675	3.675	0.0	1.221	308135		2.91(1.39-4.16)		16208	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.685	3.685	0.0	1.000	816166	1.07		107	3467	
563.00 > 169.00	3.685	3.685	0.0	1.000	181174		4.50(2.12-6.36)		4696	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.685	3.687	-0.002	1.389	1668755	2.51		101	13571	
D 30 13C2 PFUnA										
565.00 > 520.00	3.685	3.687	-0.002	1.389	2240139	2.34		93.5	20508	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.685	3.685	0.0	1.000	560614	0.9315		93.1	8150	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.842	3.842	0.0	1.277	4041245	1.04		111	77510	
D 36 13C2 PFDoA										
615.00 > 570.00	3.975	3.977	-0.002	1.499	2610885	2.54		102	11559	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.975	3.975	0.0	1.000	1140091	0.99		99.1	1534	
613.00 > 169.00	3.975	3.975	0.0	1.000	277083		4.11(2.13-6.40)		5922	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.240	4.240	0.0	1.067	1081726	0.8438		84.4	1332	
663.00 > 169.00	4.240	4.240	0.0	1.067	346480		3.12(1.25-3.76)		5841	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.479	4.479	0.0	1.000	285979	0.9247		92.5	4248	
713.00 > 219.00	4.479	4.479	0.0	1.000	213983		1.34(0.71-2.13)		7418	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.479	4.480	-0.001	1.689	2855422	2.28		91.3	11092	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.886	4.887	-0.001	1.842	5551215	2.40		95.9	11343	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.886	4.886	0.0	1.000	2175528	1.01		101	1210	
813.00 > 169.00	4.886	4.886	0.0	1.000	349646		6.22(2.86-8.58)		3492	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.239	5.239	0.0	1.072	2623486	1.01		101	1026	
913.00 > 169.00	5.239	5.239	0.0	1.072	318429		8.24(3.83-11.48)		3424	

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 12-Jul-2018 08:34:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_047.d

Injection Date: 11-Jul-2018 01:43:12 Instrument ID: A8_N

Lims ID: CCV L4

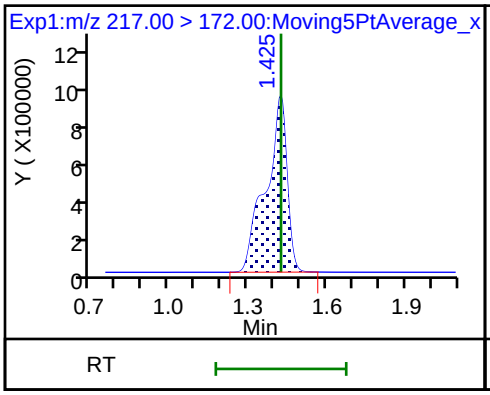
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 1

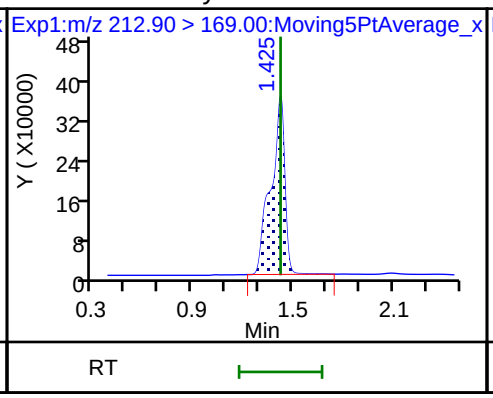
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

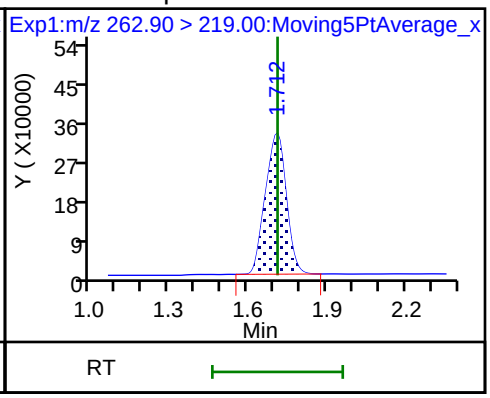
D 1 13C4 PFBA



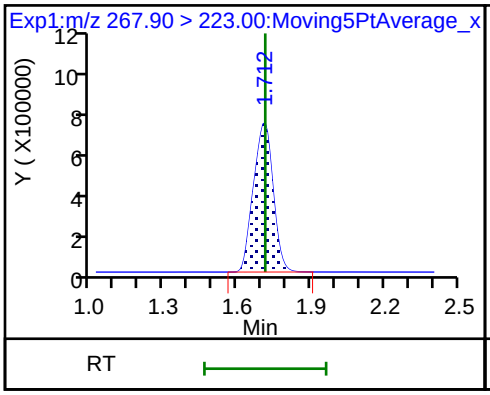
2 Perfluorobutyric acid



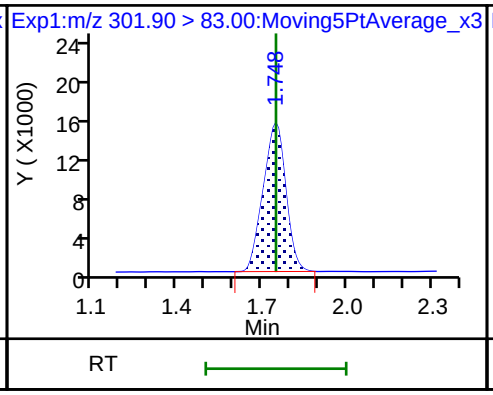
4 Perfluoropentanoic acid



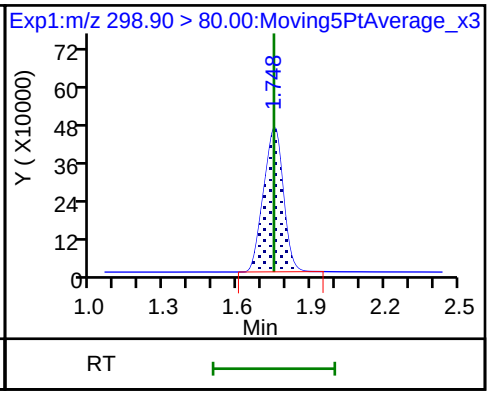
D 3 13C5-PFPeA



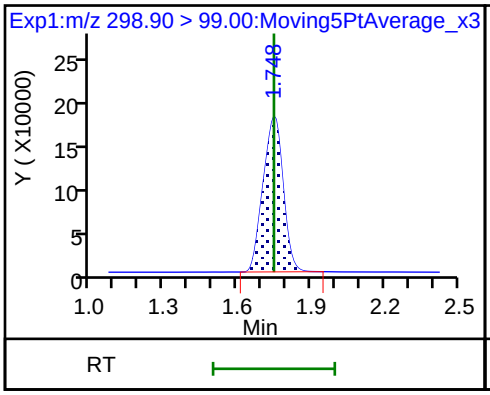
D 47 13C3-PFBS



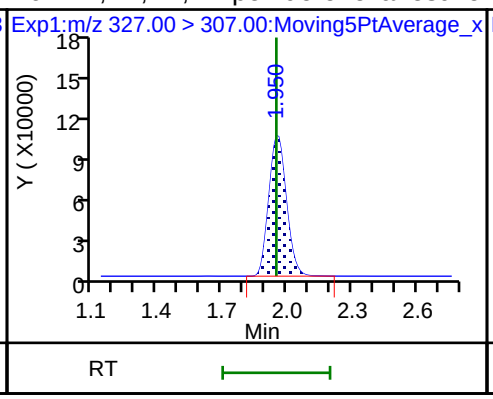
5 Perfluorobutanesulfonic acid



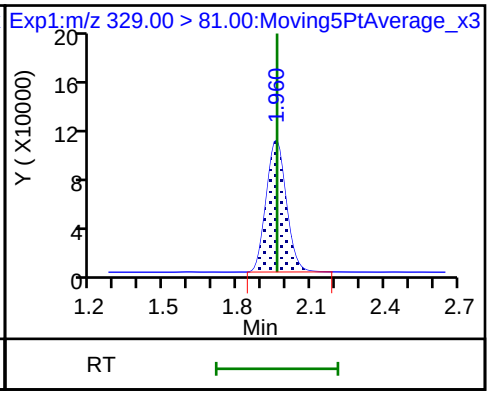
5 Perfluorobutanesulfonic acid



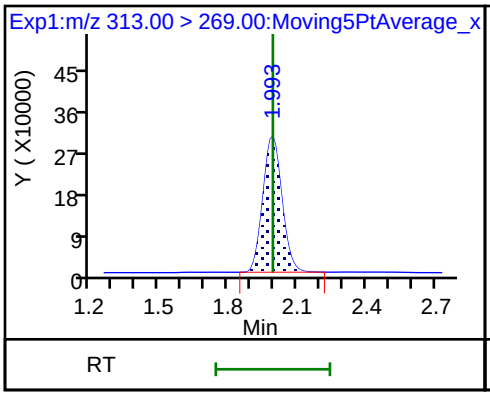
61 1H,1H,2H,2H-perfluorohexanesulfon



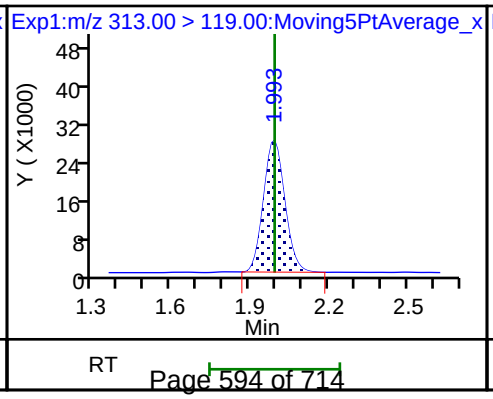
D 60 M2-4:2FTS



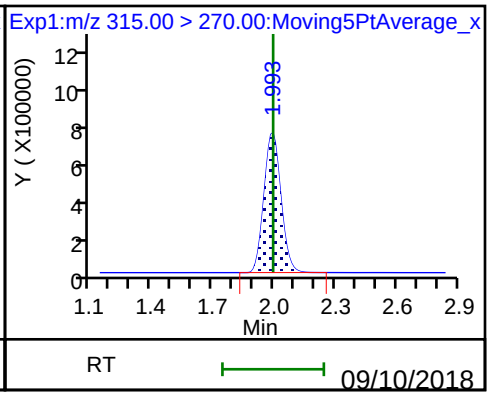
6 Perfluorohexanoic acid



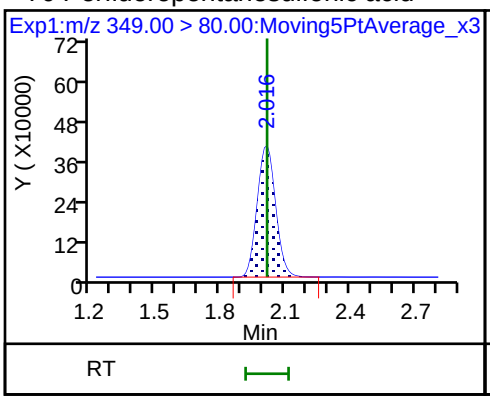
6 Perfluorohexanoic acid



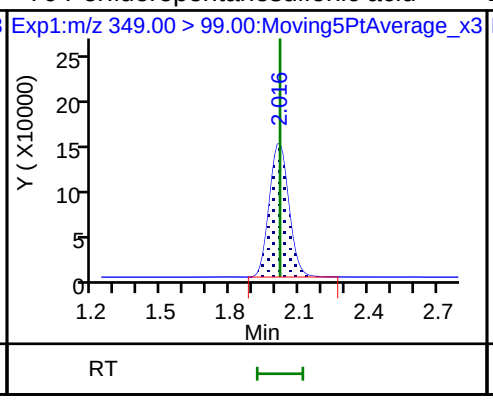
D 7 13C2 PFHxA



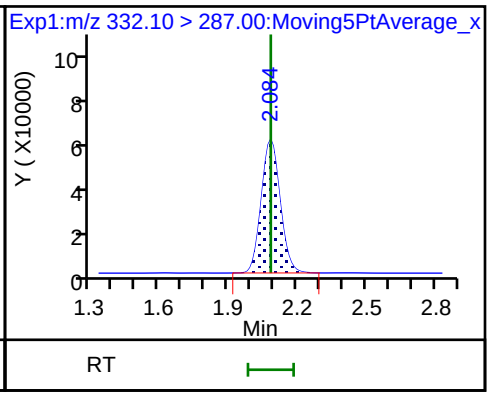
70 Perfluoropentanesulfonic acid



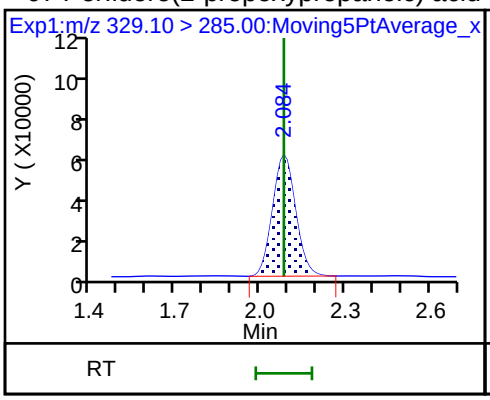
70 Perfluoropentanesulfonic acid



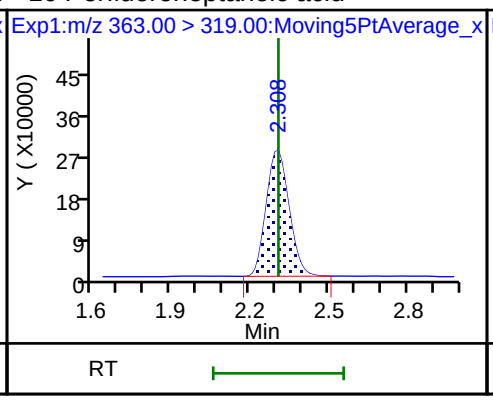
D 64 13C3 HFPO-DA



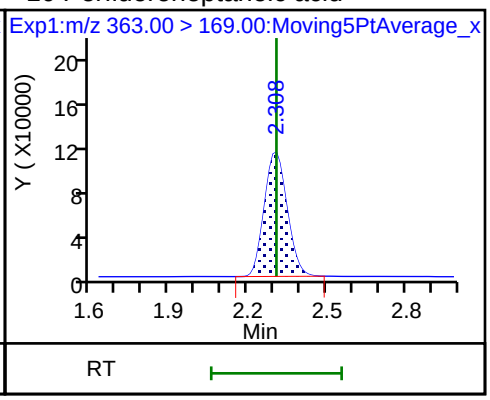
67 Perfluoro(2-propoxypropanoic) acid



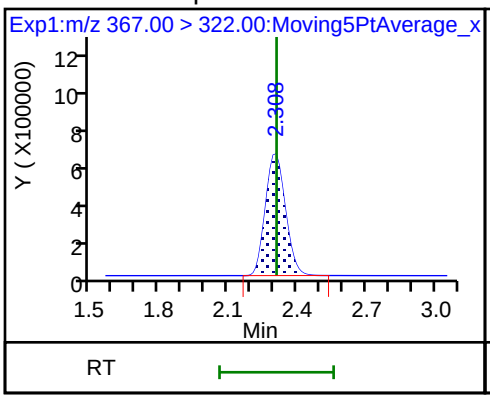
10 Perfluoroheptanoic acid



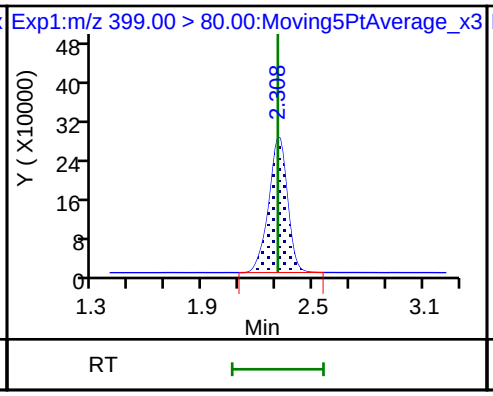
10 Perfluoroheptanoic acid



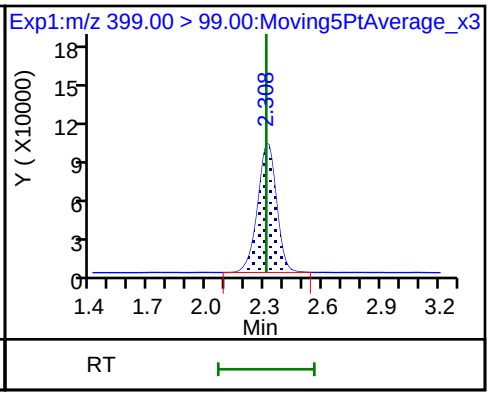
D 9 13C4-PFHpA



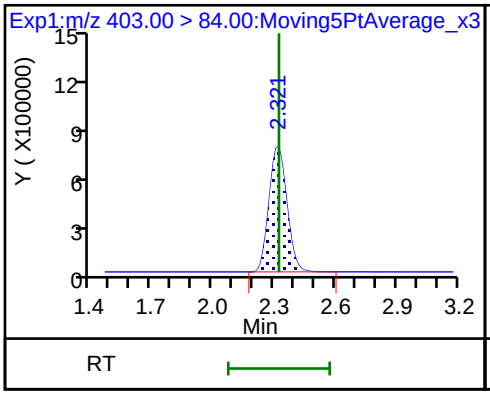
8 Perfluorohexanesulfonic acid



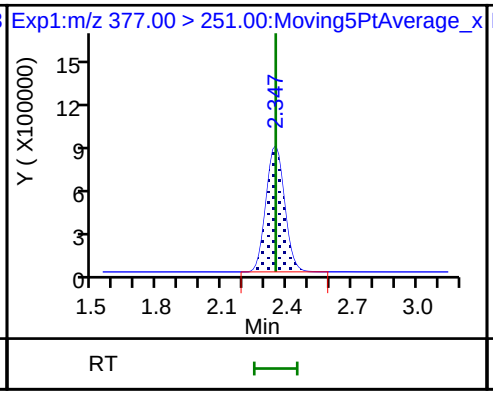
8 Perfluorohexanesulfonic acid



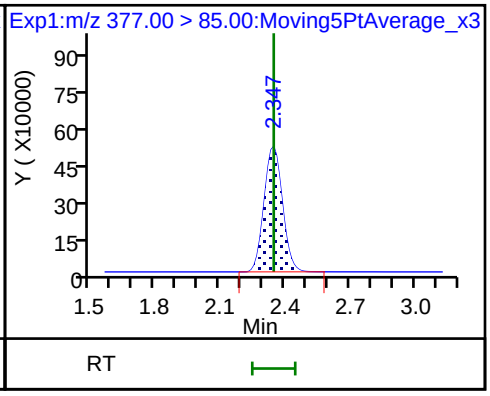
D 11 18O2 PFHxS



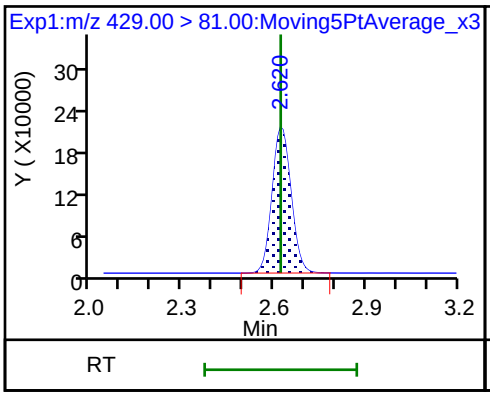
65 Adona



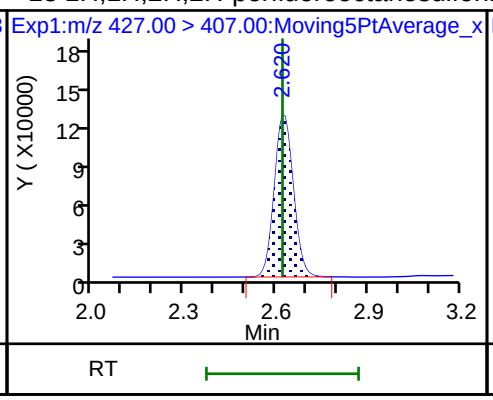
65 Adona

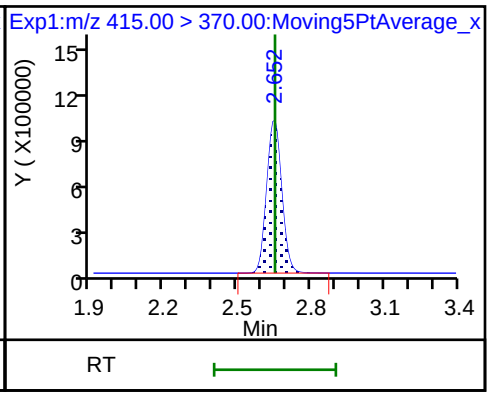


D 12 M2-6:2FTS

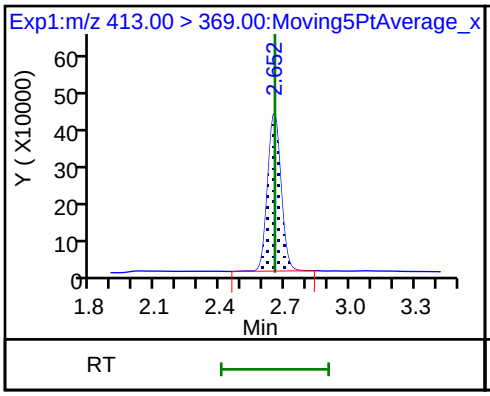


13 1H,1H,2H,2H-perfluorooctanesulfoni* 62 13C2-PFOA

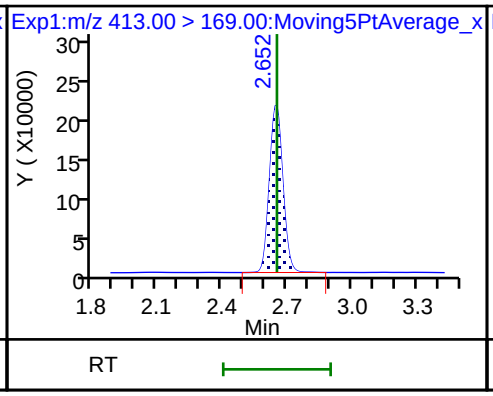




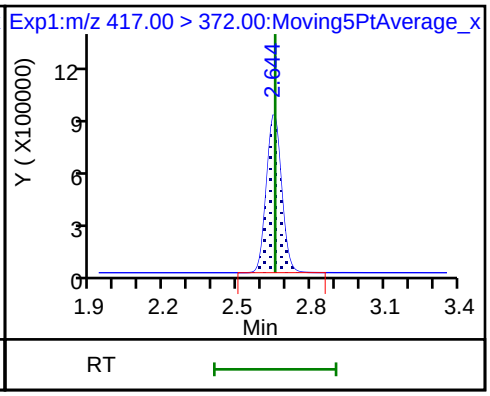
15 Perfluorooctanoic acid



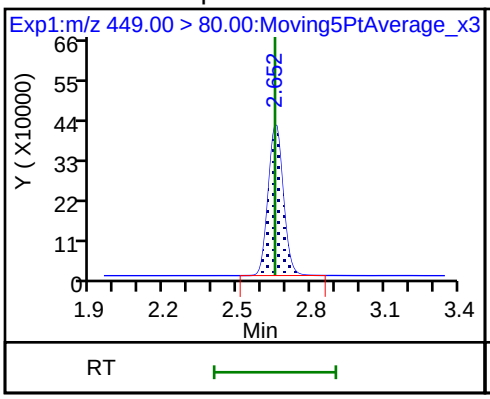
15 Perfluorooctanoic acid



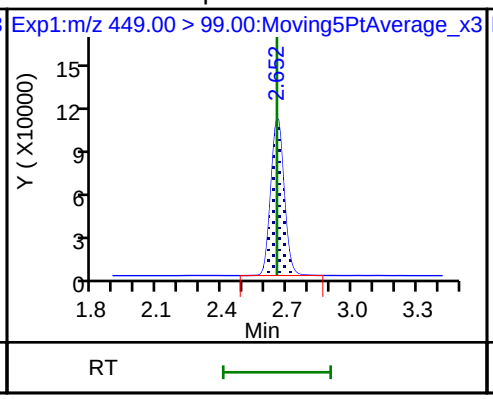
D 14 13C4 PFOA



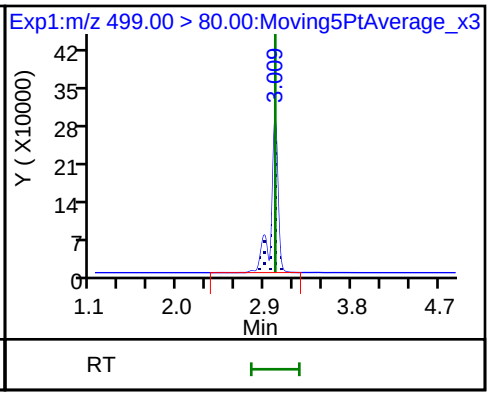
16 Perfluoroheptanesulfonic acid



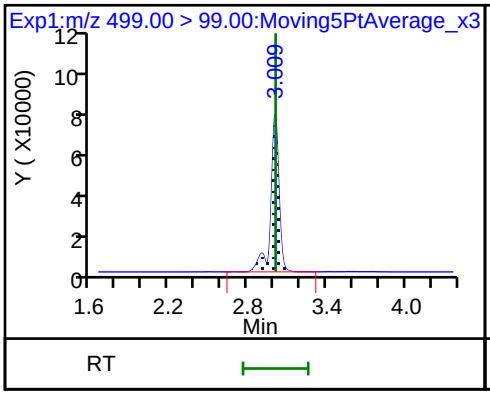
16 Perfluoroheptanesulfonic acid



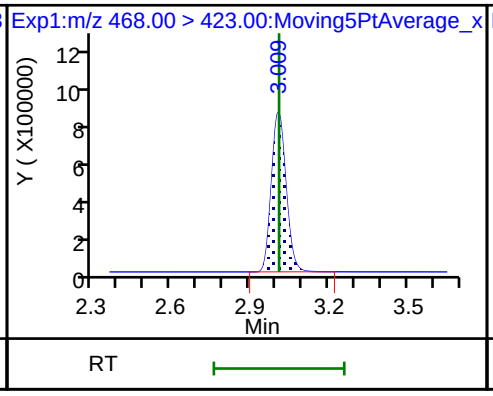
17 Perfluorooctane sulfonic acid



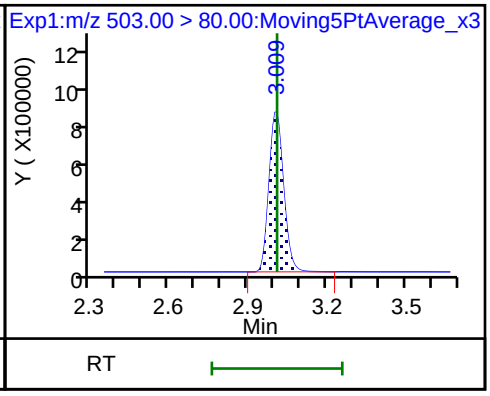
17 Perfluorooctane sulfonic acid



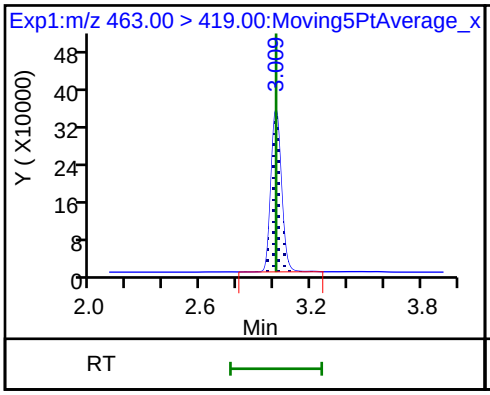
D 19 13C5 PFNA



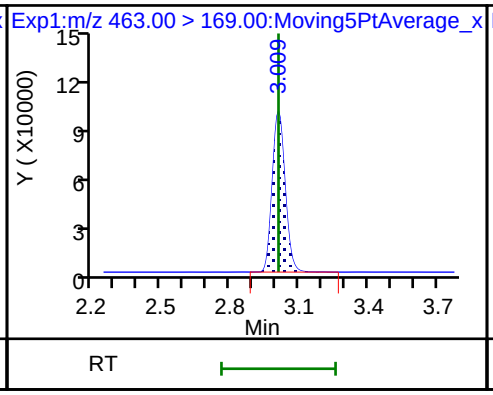
D 18 13C4 PFOS



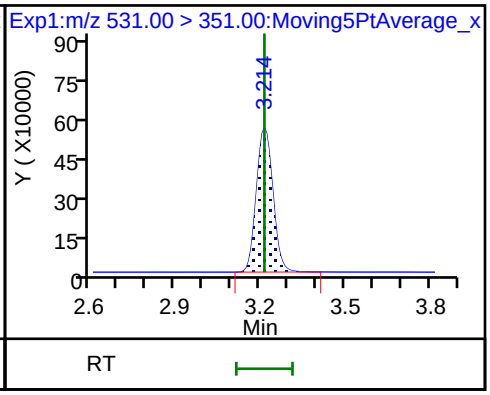
20 Perfluorononanoic acid



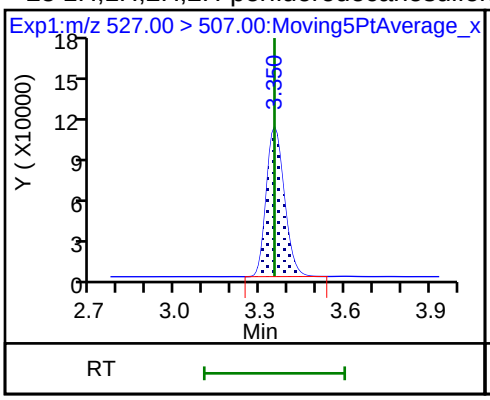
20 Perfluorononanoic acid



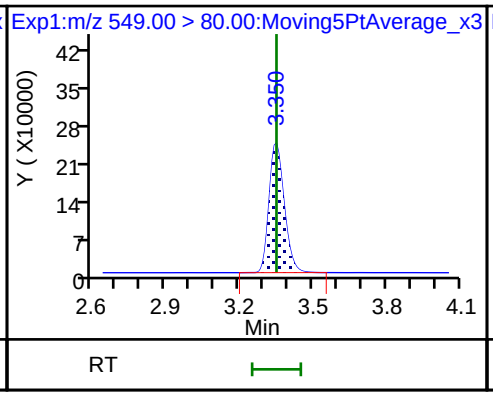
69 9-Chlorohexadecafluoro-3-oxanonane



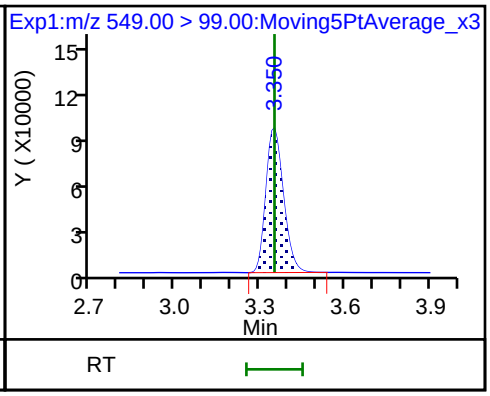
25 1H,1H,2H,2H-perfluorodecanesulfoni



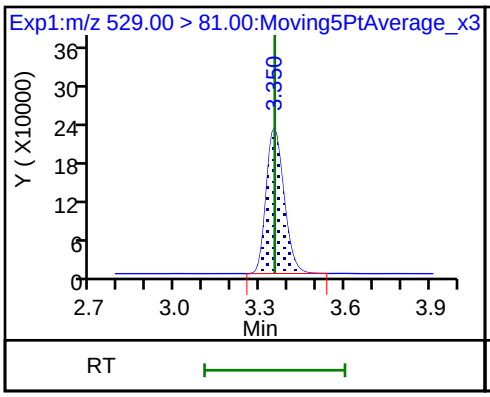
68 Perfluorononanesulfonic acid



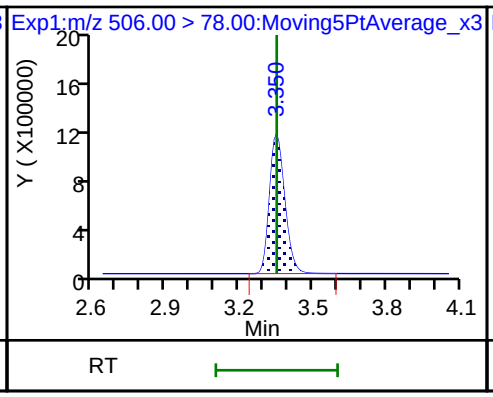
68 Perfluorononanesulfonic acid



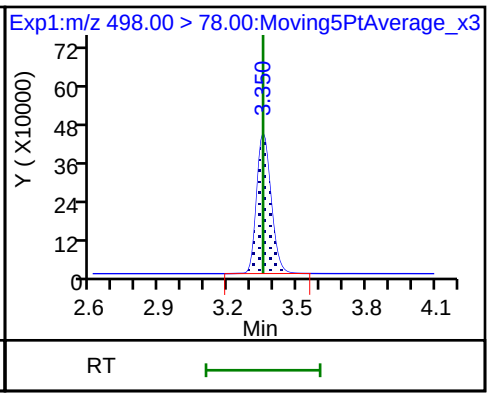
D 26 M2-8:2FTS



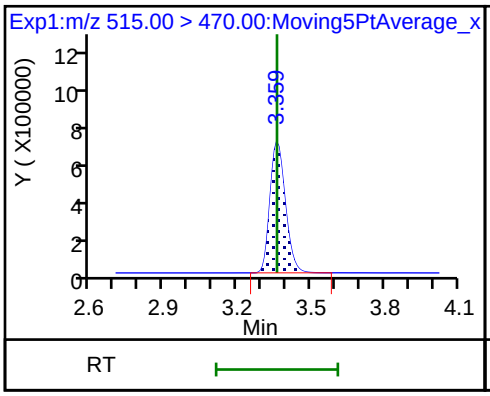
D 21 13C8 FOSA



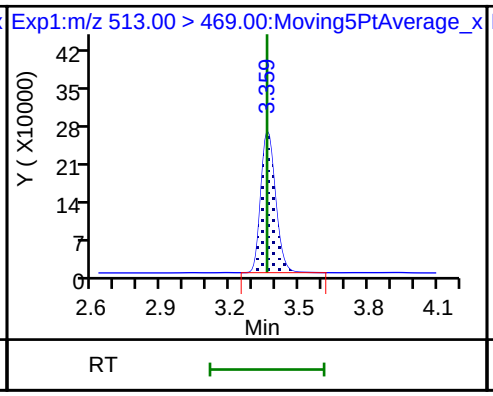
22 Perfluorooctane Sulfonamide



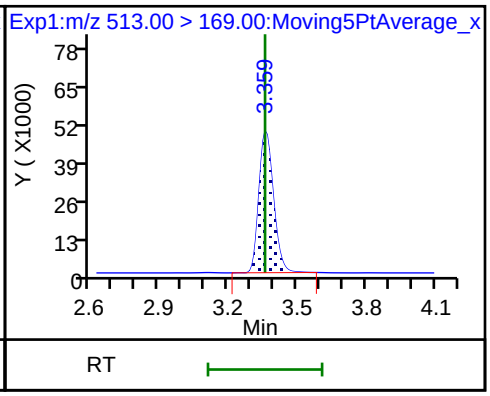
D 23 13C2 PFDA



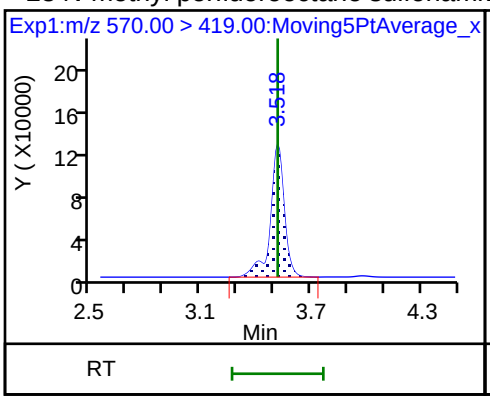
24 Perfluorodecanoic acid



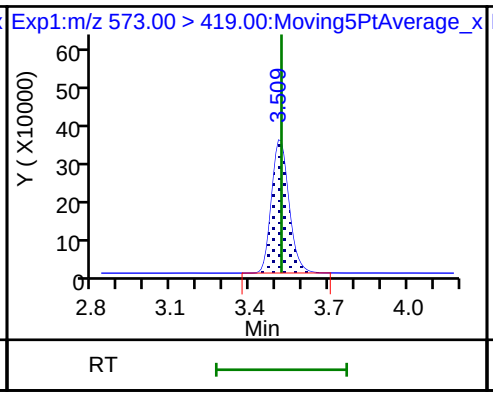
24 Perfluorodecanoic acid



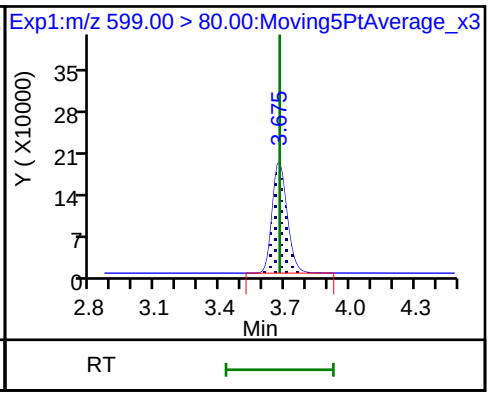
28 N-methyl perfluorooctane sulfonami



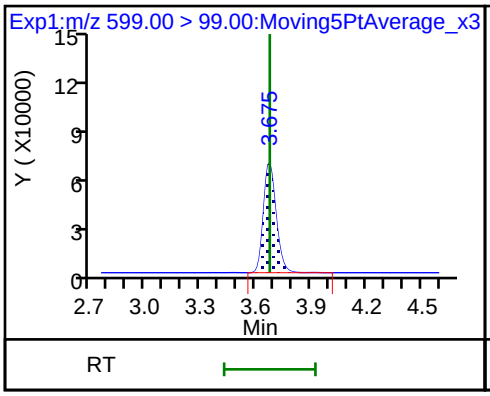
D 27 d3-NMeFOSAA



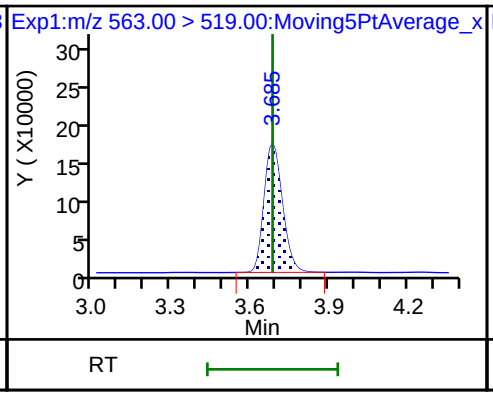
29 Perfluorodecane Sulfonic acid



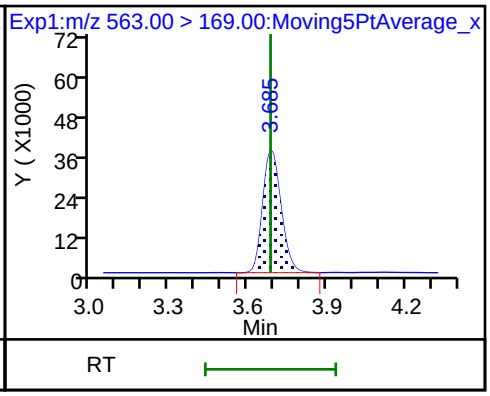
29 Perfluorodecane Sulfonic acid



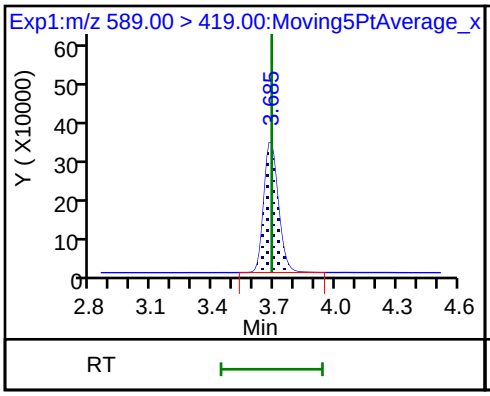
31 Perfluoroundecanoic acid



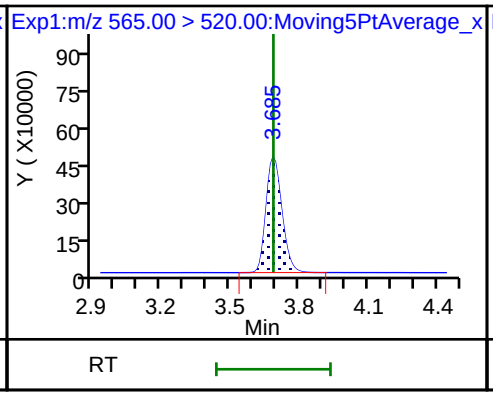
31 Perfluoroundecanoic acid



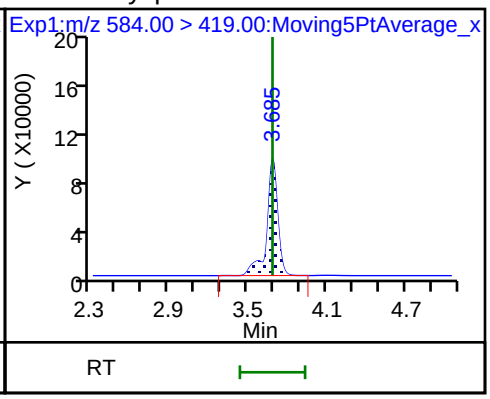
D 32 d5-NEtFOSAA



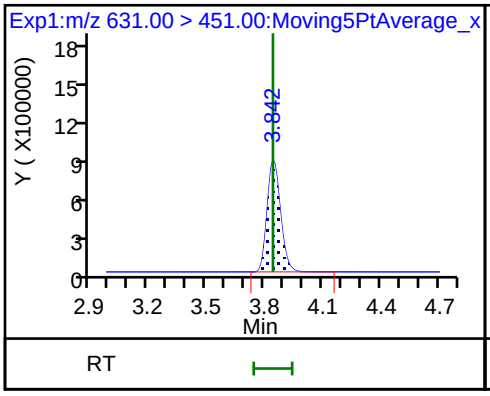
D 30 13C2 PFUnA



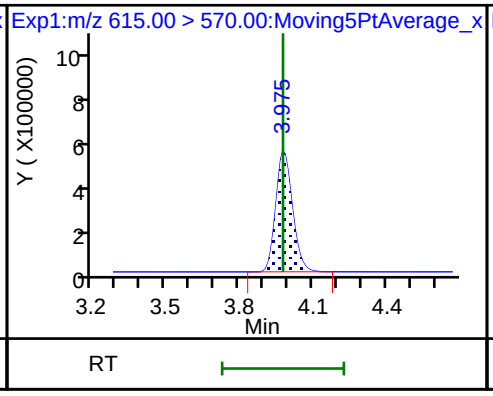
33 N-ethyl perfluorooctane sulfonamid



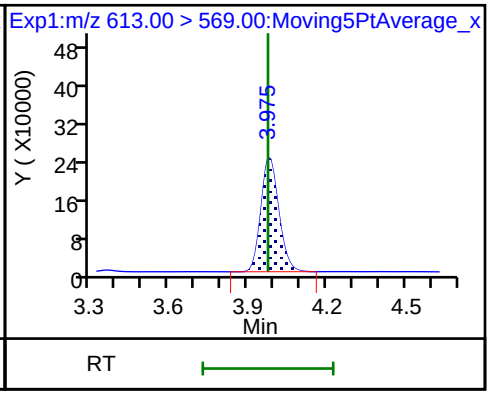
66 11-Chloroeicosafluoro-3-oxaundecan



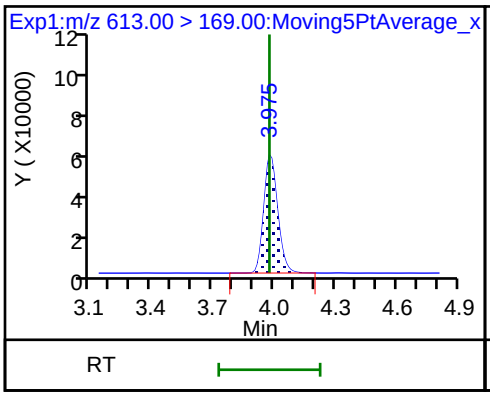
D 36 13C2 PFDoA



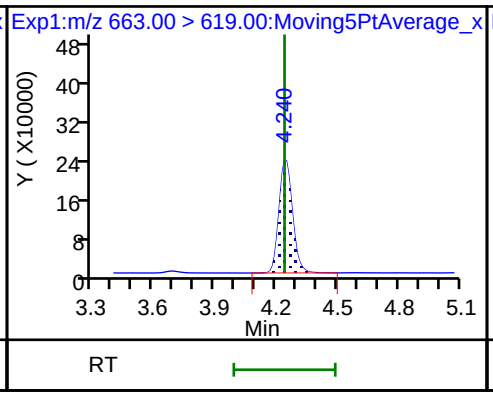
37 Perfluorododecanoic acid



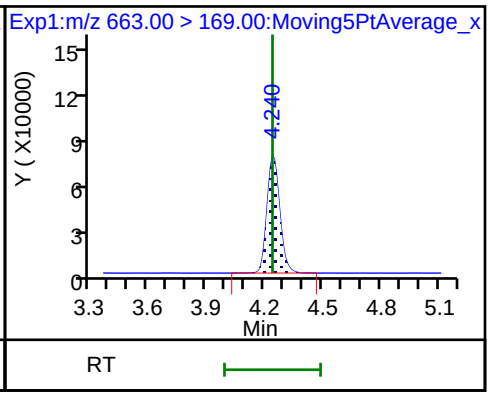
37 Perfluorododecanoic acid



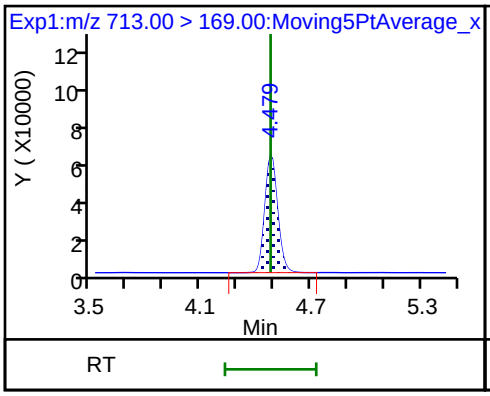
41 Perfluorotridecanoic acid



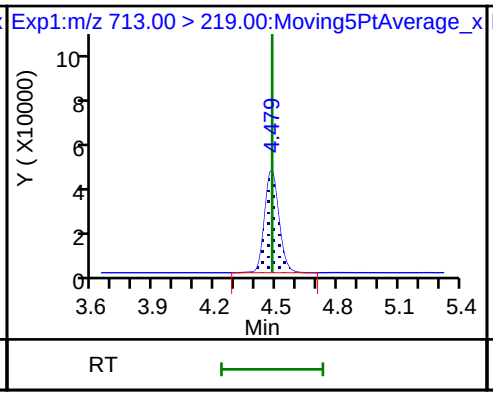
41 Perfluorotridecanoic acid



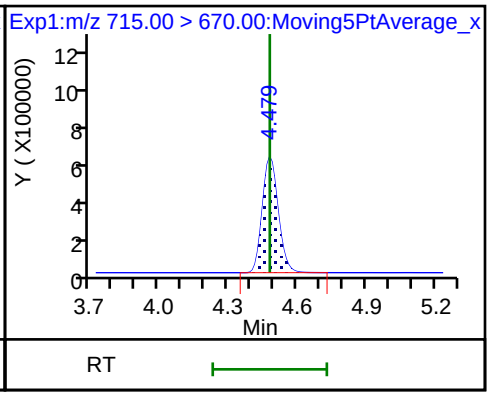
42 Perfluorotetradecanoic acid



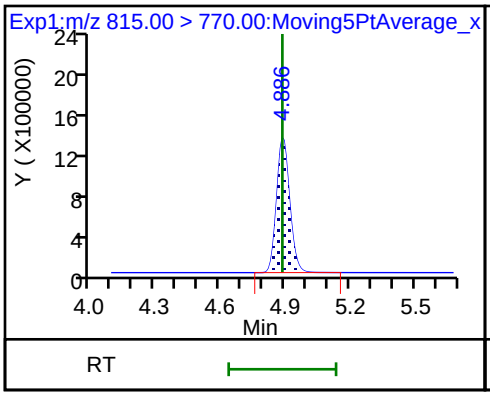
42 Perfluorotetradecanoic acid



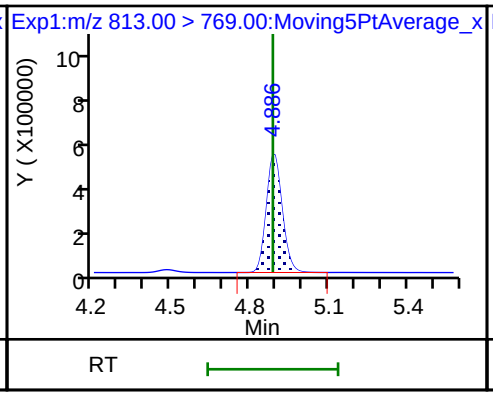
D 43 13C2-PFTeDA



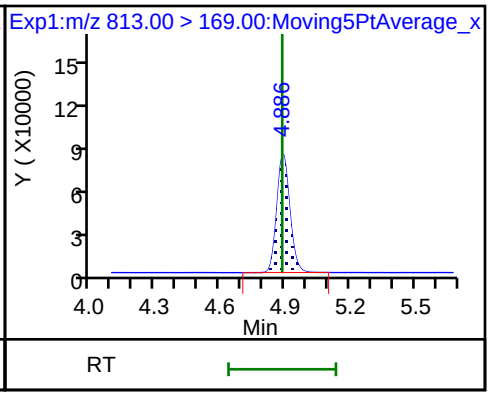
D 44 13C2-PFHxDA



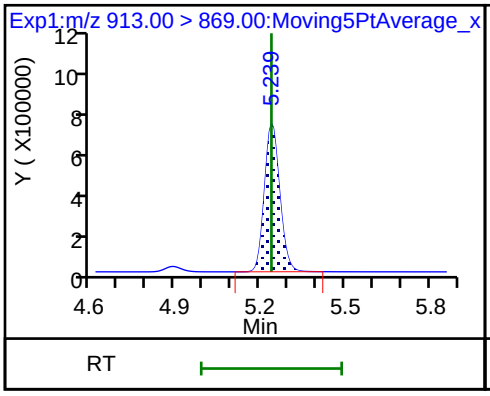
45 Perfluorohexadecanoic acid



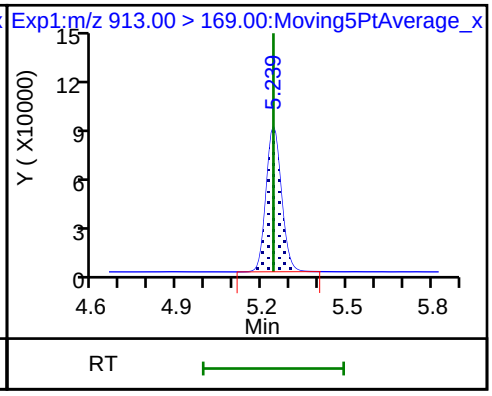
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/12 Calibration Date: 07/11/2018 03:09

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.021	0.997		2.44	2.50	-2.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.191	1.183		2.48	2.50	-0.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	75.80	78.29		2.28	2.21	3.3	50.0
4:2 FTS	AveID	15.68	16.78		2.50	2.34	7.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.048		2.57	2.50	2.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	64.85	71.41		2.58	2.35	10.1	50.0
HFPO-DA (GenX)	AveID	2.299	2.444		2.66	2.50	6.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.130	1.087		2.41	2.50	-3.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.156	1.099		2.16	2.28	-5.0	40.0
ADONA	AveID	3.706	4.033		2.56	2.36	8.8	50.0
6:2 FTS	AveID	1.567	1.594		2.41	2.37	1.8	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.186	1.223		2.58	2.50	3.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.339	1.466		2.60	2.38	9.4	50.0
Perfluorononanoic acid (PFNA)	AveID	1.078	1.079		2.50	2.50	0.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.168	1.220		2.42	2.32	4.4	40.0
F-53B Major	AveID	1.891	1.966		2.42	2.33	4.0	50.0
8:2 FTS	AveID	1.321	1.273		2.31	2.40	-3.6	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.8126	0.8186		2.42	2.40	0.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9917	1.018		2.57	2.50	2.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.042	1.044		2.50	2.50	0.1	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	1.029	1.020		2.48	2.50	-0.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7195	0.7119		2.38	2.41	-1.1	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.9017	0.8605		2.39	2.50	-4.6	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8501	0.8808		2.59	2.50	3.6	40.0
F-53B Minor	AveID	2.884	3.193		2.61	2.36	10.7	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.102	1.056		2.40	2.50	-4.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.227	1.033		2.10	2.50	-15.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2708	0.2485		2.29	2.50	-8.2	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9754		2.54	2.50	1.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.164	1.189		2.55	2.50	2.2	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233309/12 Calibration Date: 07/11/2018 03:09

Instrument ID: A8_N Calib Start Date: 07/05/2018 08:51

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/05/2018 09:38

Lab File ID: 2018.07.10LLB_058.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.384	1.292		2.33	2.50	-6.7	50.0
13C5 PFPeA	Ave	1.025	0.9489		2.32	2.50	-7.4	50.0
13C3-PFBS	Ave	0.0245	0.0229		2.17	2.33	-6.5	50.0
M2-4:2FTS	Ave	0.1575	0.1606		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.097	1.054		2.40	2.50	-3.9	50.0
13C3 HFPO-DA	Ave	0.0899	0.0808		2.25	2.50	-10.1	50.0
13C4-PFHpA	Ave	0.9735	0.9938		2.55	2.50	2.1	50.0
18O2 PFHxS	Ave	1.198	1.247		2.46	2.37	4.1	50.0
M2-6:2FTS	Ave	0.2186	0.2293		2.49	2.38	4.9	40.0
13C4 PFOA	Ave	0.9539	0.9752		2.56	2.50	2.2	50.0
13C4 PFOS	Ave	0.8551	0.8250		2.31	2.39	-3.5	50.0
13C5 PFNA	Ave	0.8109	0.8444		2.60	2.50	4.1	50.0
13C8 FOSA	Ave	1.187	1.138		2.40	2.50	-4.1	50.0
M2-8:2FTS	Ave	0.2431	0.2410		2.37	2.40	-0.9	40.0
13C2 PFDA	Ave	0.6992	0.7123		2.55	2.50	1.9	50.0
d3-NMeFOSAA	Ave	0.4120	0.3995		2.42	2.50	-3.0	50.0
d5-NEtFOSAA	Ave	0.4070	0.4187		2.57	2.50	2.9	50.0
13C2 PFUnA	Ave	0.5873	0.5613		2.39	2.50	-4.4	50.0
13C2 PFDoA	Ave	0.6294	0.6571		2.61	2.50	4.4	50.0
13C2-PFTeDA	Ave	0.7673	0.7390		2.41	2.50	-3.7	50.0
13C2-PFHxDA	Ave	1.420	1.366		2.41	2.50	-3.8	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_058.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 11-Jul-2018 03:09:03 ALS Bottle#: 29 Worklist Smp#: 12
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:53:48 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:53:48

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.434	1.434	0.0	1.000	4669025	2.44		97.6	2623	
D 1 13C4 PFBA										
217.00 > 172.00	1.434	1.425	0.009	0.539	4685300	2.33		93.3	19876	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.717	1.717	0.0	1.000	4070570	2.48		99.3	3507	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.712	0.005	0.646	3441000	2.32		92.6	36738	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.762	0.0	1.005	5752217	2.28		103	21501	
298.90 > 99.00	1.762	1.762	0.0	1.005	2382186		2.41(1.25-3.74)		21533	
D 47 13C3-PFBS										
301.90 > 83.00	1.753	1.748	0.005	0.659	77296	2.17		93.5	586	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.967	1.967	0.0	1.122	1302308	2.50		107	57108	
D 60 M2-4:2FTS										
329.00 > 81.00	1.967	1.961	0.006	0.740	544023	2.38		102	6834	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.000	2.000	0.0	1.000	4005216	2.57		103	9907	
313.00 > 119.00	2.000	2.000	0.0	1.000	354102		11.31(5.03-15.10)		5577	
D 7 13C2 PFHxA										
315.00 > 270.00	2.000	1.994	0.006	0.752	3822979	2.40		96.1	41698	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.022	2.022	0.0	1.154	5567112	2.58		110	63256	
349.00 > 99.00	2.022	2.022	0.0	1.154	1979169		2.81(1.36-4.07)		25821	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.090	2.090	0.0	1.000	716194	2.66		106	5202	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.090	2.084	0.006	0.786	293087	2.25		89.9	4628	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.316	0.0	1.000	3919417	2.41		96.3	5968	
363.00 > 169.00	2.316	2.316	0.0	1.000	1540418		2.54(1.13-3.40)		12056	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.316	2.316	0.0	0.994	4522667	2.16		95.0	16173	
399.00 > 99.00	2.329	2.316	0.013	1.000	1467406		3.08(1.50-4.49)		8750	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.309	0.007	0.871	3604140	2.55		102	34782	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.322	0.007	0.876	4278814	2.46		104	33608	
65 Adona										
377.00 > 251.00	2.355	2.355	0.0	0.780	11366323	2.56		109	66087	
377.00 > 85.00	2.355	2.355	0.0	0.780	6703692		1.70(0.84-2.53)		43707	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.635	2.635	0.0	1.000	1256749	2.41		102	6650	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.621	0.014	0.991	789973	2.49		105	12991	
* 62 13C2-PFOA										
415.00 > 370.00	2.658	2.658	0.0		3626486	2.50			23626	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.658	2.658	0.0	1.000	4330268	2.58		103	1220	
413.00 > 169.00	2.658	2.658	0.0	1.000	2225553		1.95(0.84-2.52)		3445	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.666	2.666	0.0	0.883	4174268	2.60		109	20560	
449.00 > 99.00	2.666	2.666	0.0	0.883	1111131		3.76(1.94-5.82)		25863	
D 14 13C4 PFOA										
417.00 > 372.00	2.658	2.653	0.005	1.000	3536587	2.56		102	41586	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.018	3.018	0.0	1.000	3386739	2.42		104	18963	
499.00 > 99.00	3.018	3.018	0.0	1.000	729209		4.64(2.31-6.93)		11532	
20 Perfluorononanoic acid										
463.00 > 419.00	3.018	3.018	0.0	1.000	3305152	2.50		100	8154	
463.00 > 169.00	3.018	3.018	0.0	1.000	789272		4.19(1.90-5.69)		16941	
D 19 13C5 PFNA										
468.00 > 423.00	3.018	3.010	0.008	1.135	3062295	2.60		104	41883	
D 18 13C4 PFOS										
503.00 > 80.00	3.018	3.010	0.008	1.135	2860335	2.31		96.5	18025	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.224	3.224	0.0	1.068	5483591	2.42		104	65322	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.361	3.361	0.0	1.000	1065916	2.31		96.4	21890	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.361	0.0	1.114	2351195	2.42		101	41741	
549.00 > 99.00	3.361	3.361	0.0	1.114	872031		2.70(1.33-3.97)		22133	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.361	0.0	1.000	4201802	2.57		103	25248	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 26 M2-8:2FTS										
529.00 > 81.00	3.361	3.351	0.010	1.264	837219	2.37		99.1	13503	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.351	0.010	1.264	4127779	2.40		95.9	33640	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.371	3.371	0.0	1.000	2696237	2.50		100	10353	
513.00 > 169.00	3.371	3.371	0.0	1.000	457657		5.89(2.36-7.09)		11449	
D 23 13C2 PFDA										
515.00 > 470.00	3.371	3.361	0.010	1.268	2583261	2.55		102	30875	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.529	0.0	1.003	1477379	2.48		99.1	11502	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.520	3.519	0.001	1.324	1448642	2.42		97.0	21028	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.677	3.677	0.0	1.218	2053188	2.38		98.9	42689	
599.00 > 99.00	3.677	3.677	0.0	1.218	671363		3.06(1.39-4.16)		14087	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.698	0.0	1.000	1792960	2.59		104	7383	
563.00 > 169.00	3.698	3.698	0.0	1.000	435956		4.11(2.12-6.36)		10108	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.698	0.0	1.003	1306697	2.39		95.4	13100	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.391	2035709	2.39		95.6	21215	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.687	3.687	0.0	1.387	1518464	2.57		103	11467	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.855	0.0	1.277	9000640	2.61		111	70066	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.989	3.989	0.0	1.000	2516749	2.40		95.8	3300	
613.00 > 169.00	3.989	3.989	0.0	1.000	604500		4.16(2.13-6.40)		11636	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.977	0.012	1.501	2383103	2.61		104	10981	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.253	4.253	0.0	1.066	2460648	2.10		84.1	3174	
663.00 > 169.00	4.253	4.253	0.0	1.066	780237		3.15(1.25-3.76)		9577	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.491	0.0	1.000	665977	2.29		91.8	8295	
713.00 > 219.00	4.481	4.491	-0.010	0.998	471934		1.41(0.71-2.13)		9788	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.480	0.011	1.689	2679916	2.41		96.3	11405	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.896	0.0	1.000	4832050	2.54		102	2595	
813.00 > 169.00	4.896	4.896	0.0	1.000	772295		6.26(2.86-8.58)		6176	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.842	4953691	2.41		96.2	10757	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.248	5.248	0.0	1.072	5891410	2.55		102	2237	
913.00 > 169.00	5.248	5.248	0.0	1.072	727125		8.10(3.83-11.48)		6142	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 12-Jul-2018 08:53:49 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_058.d

Injection Date: 11-Jul-2018 03:09:03 Instrument ID: A8_N

Lims ID: CCV L5

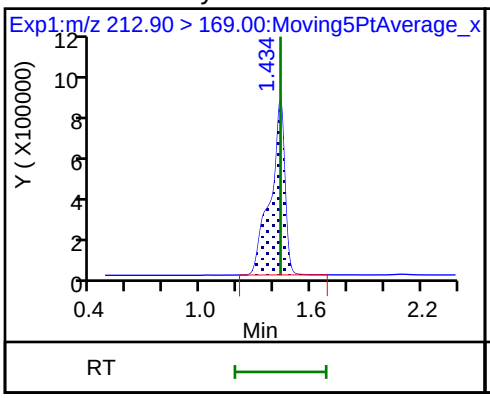
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 12

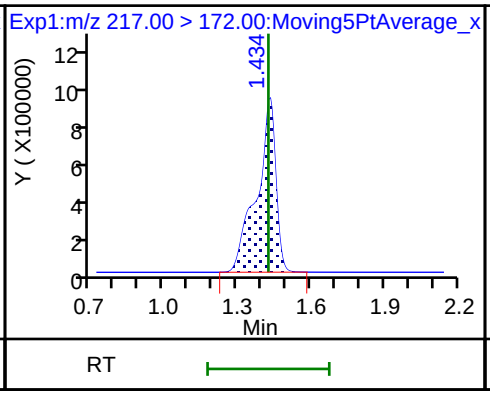
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

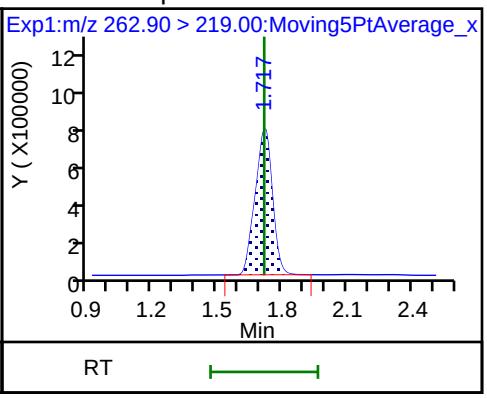
2 Perfluorobutyric acid



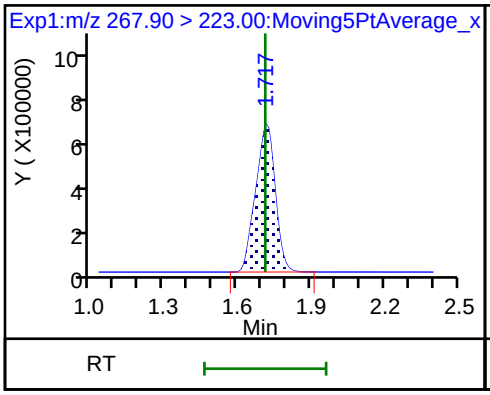
D 1 13C4 PFBA



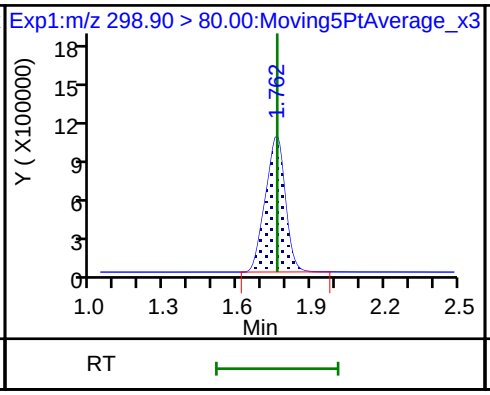
4 Perfluoropentanoic acid



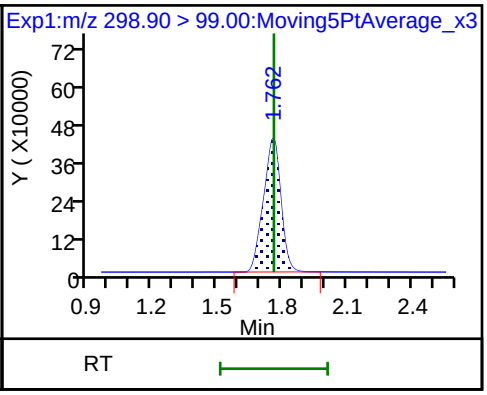
D 3 13C5-PFPeA



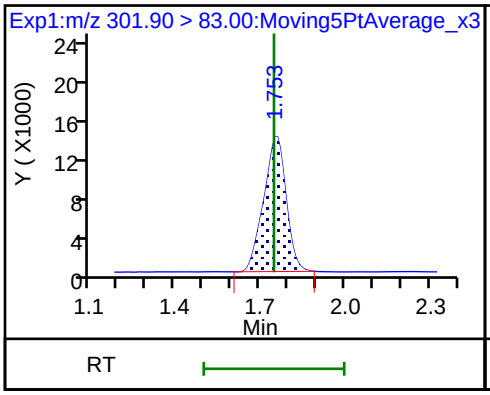
5 Perfluorobutanesulfonic acid



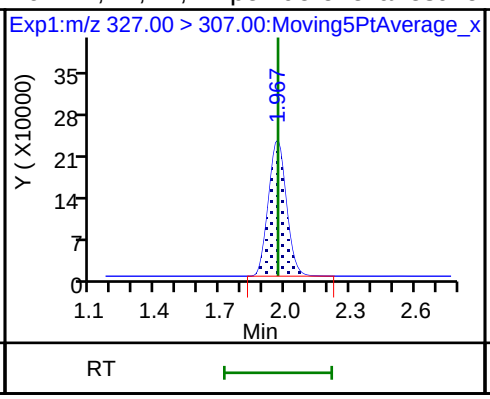
5 Perfluorobutanesulfonic acid



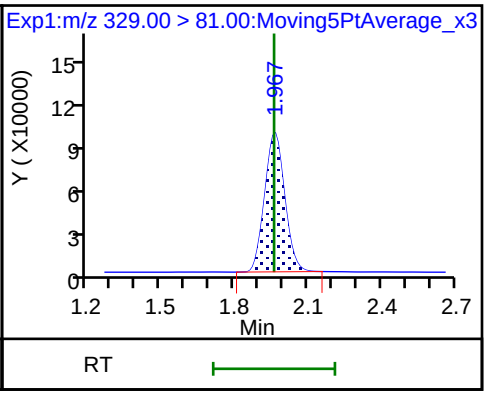
D 47 13C3-PFBS



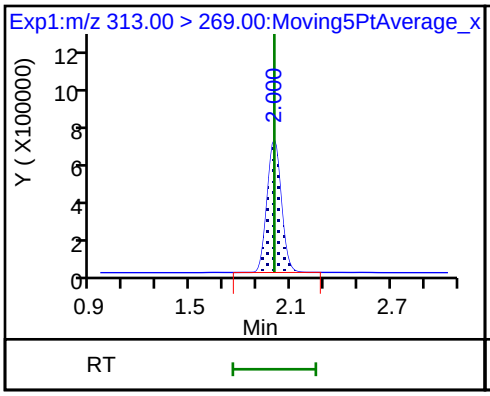
61 1H,1H,2H,2H-perfluorohexanesulfon



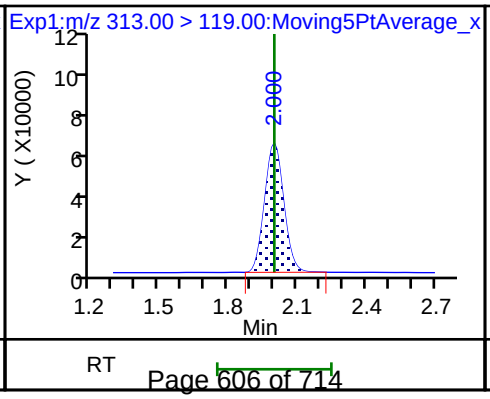
D 60 M2-4:2FTS



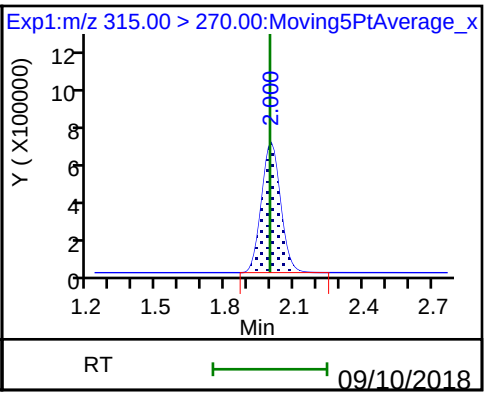
6 Perfluorohexanoic acid



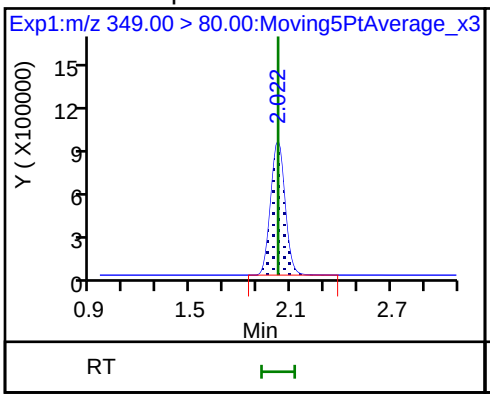
6 Perfluorohexanoic acid



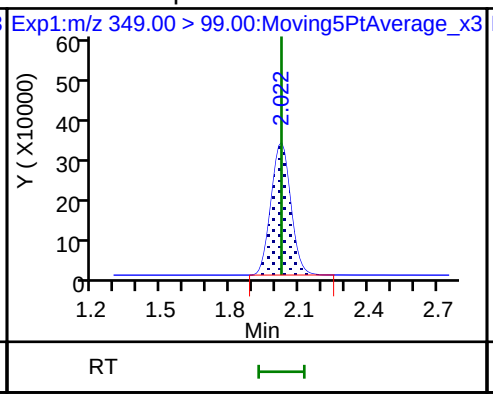
D 7 13C2 PFHxA



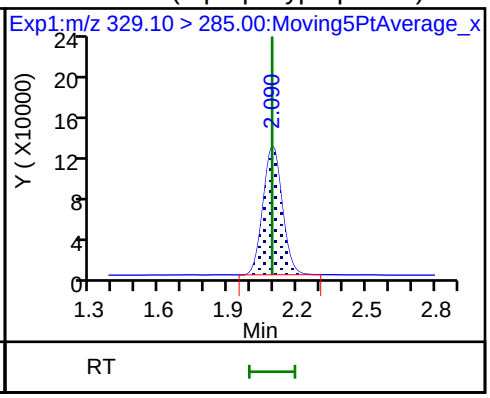
70 Perfluoropentanesulfonic acid



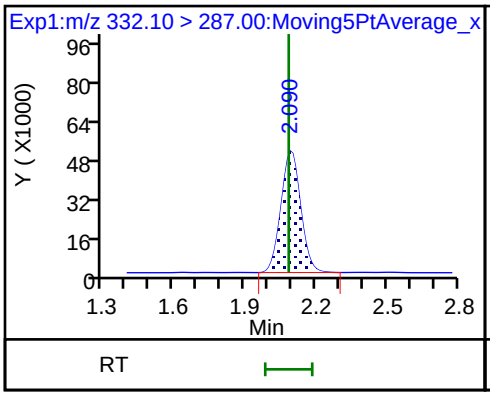
70 Perfluoropentanesulfonic acid



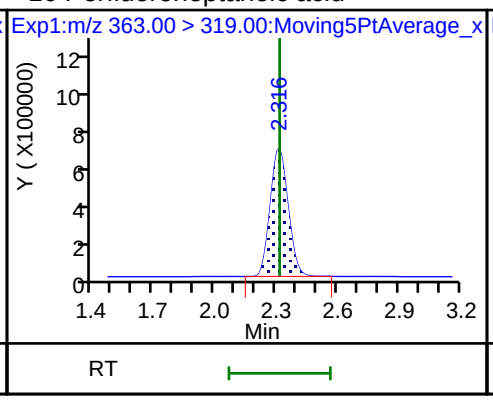
67 Perfluoro(2-propoxypropanoic) acid



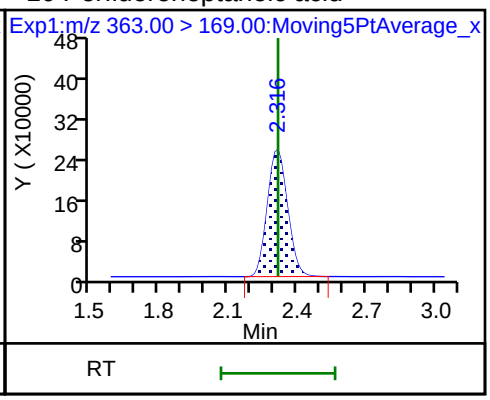
D 64 13C3 HFPO-DA



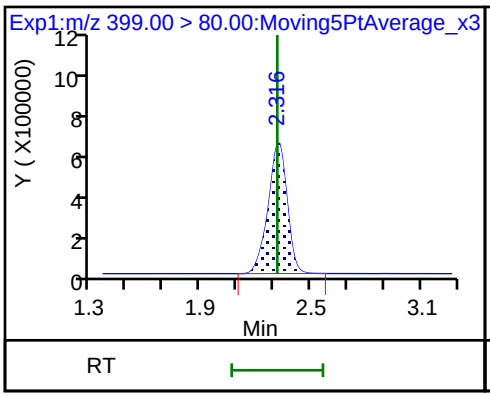
10 Perfluoroheptanoic acid



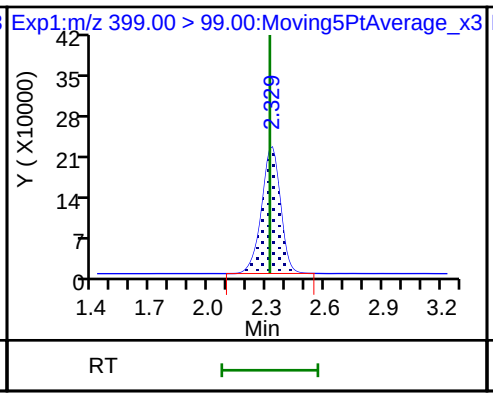
10 Perfluoroheptanoic acid



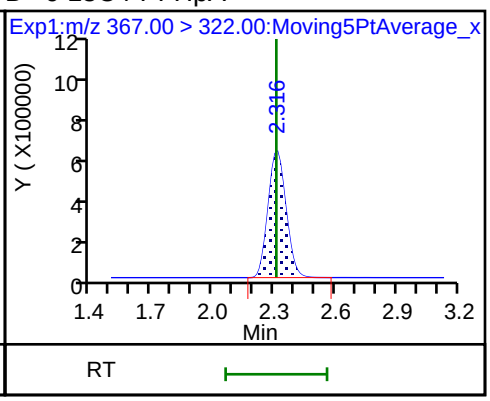
8 Perfluorohexanesulfonic acid



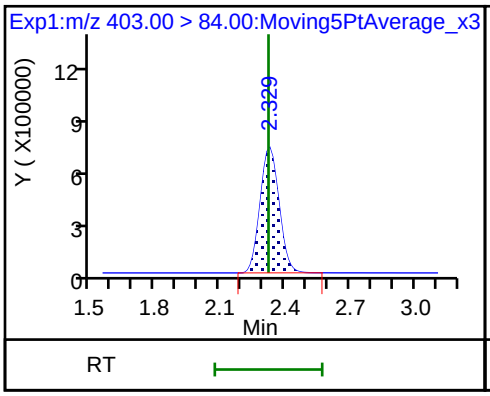
8 Perfluorohexanesulfonic acid



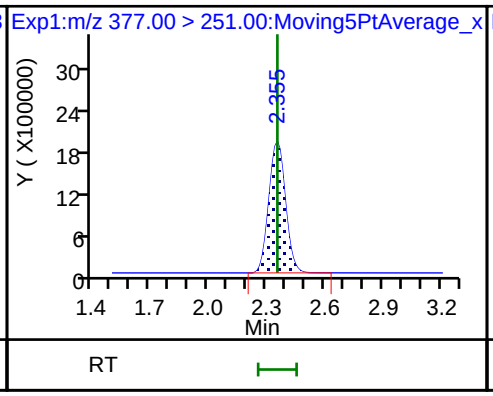
D 9 13C4-PFHpA



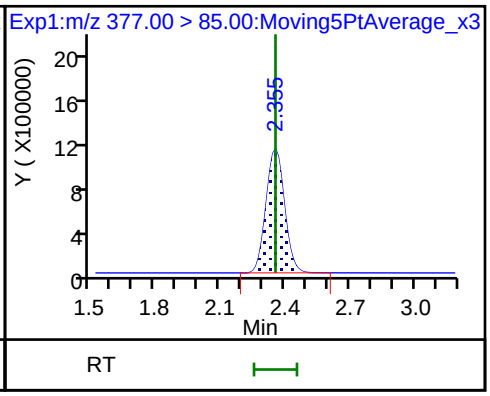
D 11 18O2 PFHxS



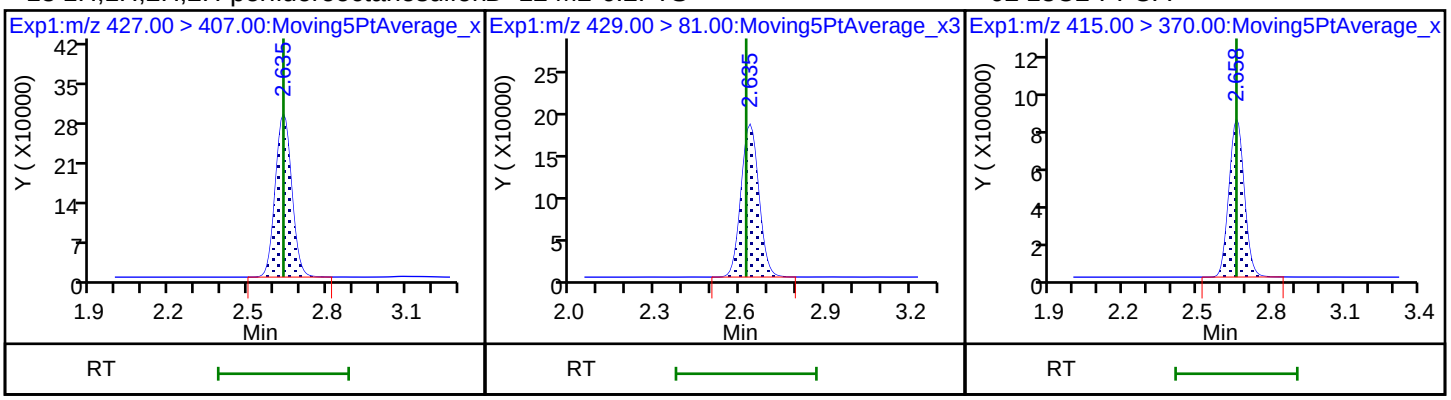
65 Adona



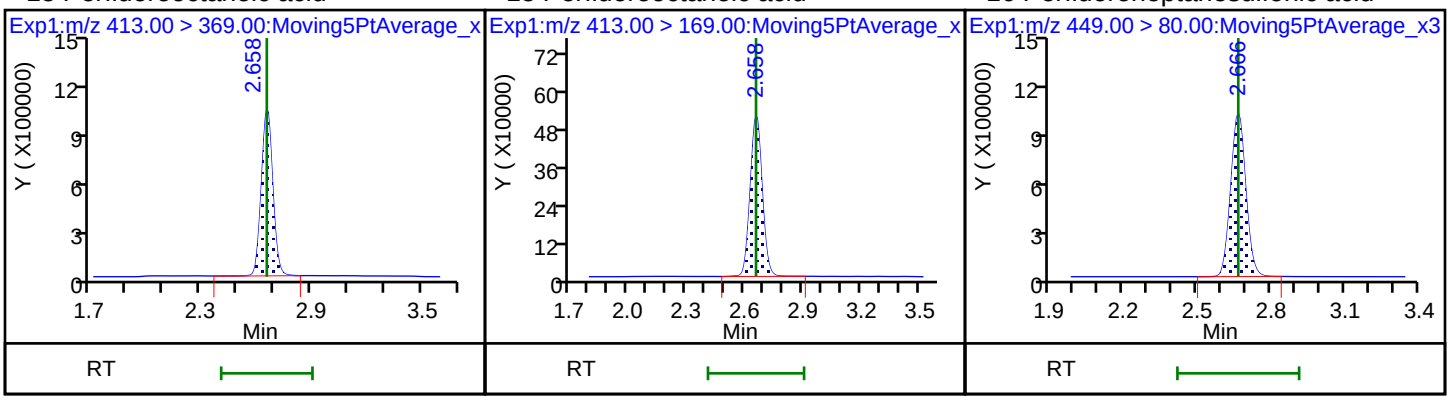
65 Adona



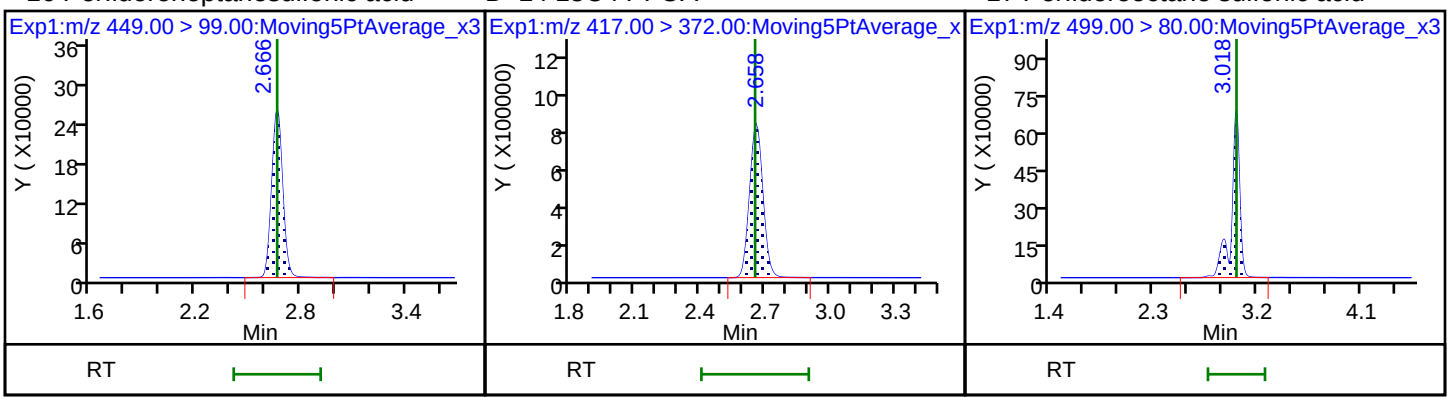
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



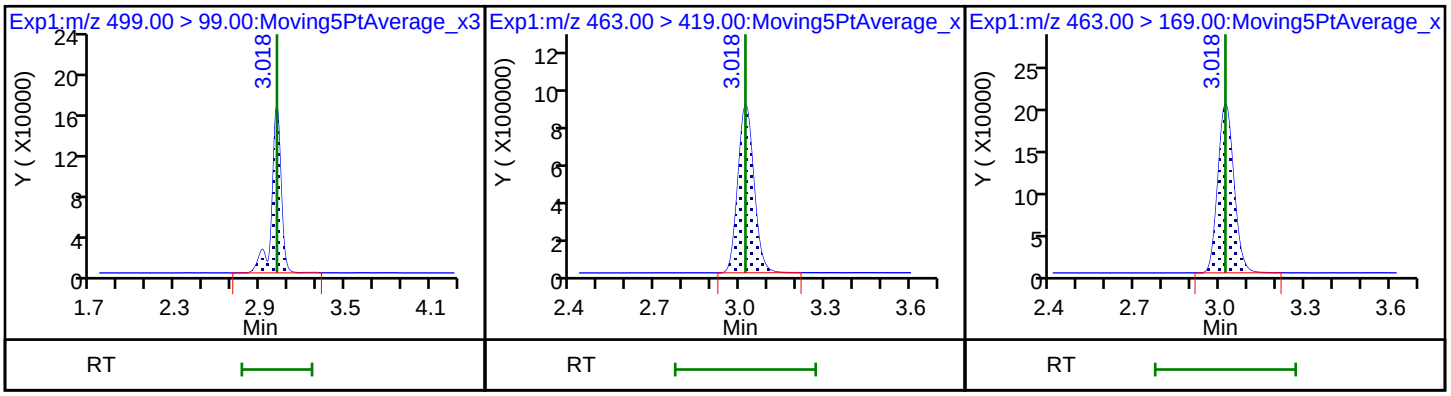
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid 16 Perfluoroheptanesulfonic acid



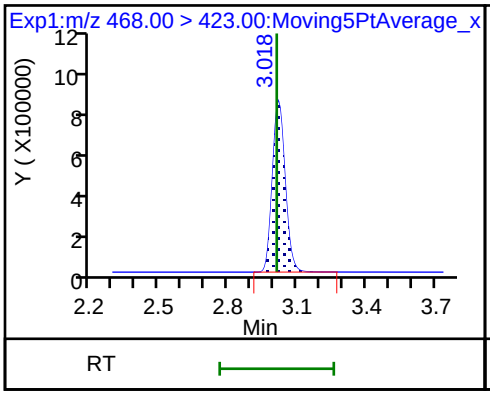
16 Perfluoroheptanesulfonic acid D 14 13C4 PFOA 17 Perfluorooctane sulfonic acid



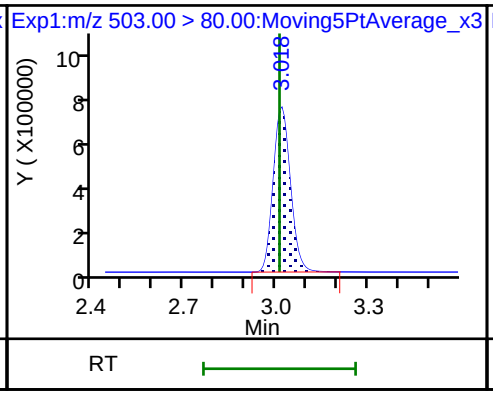
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



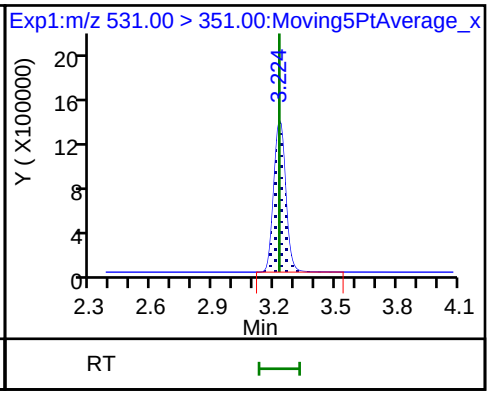
D 19 13C5 PFNA



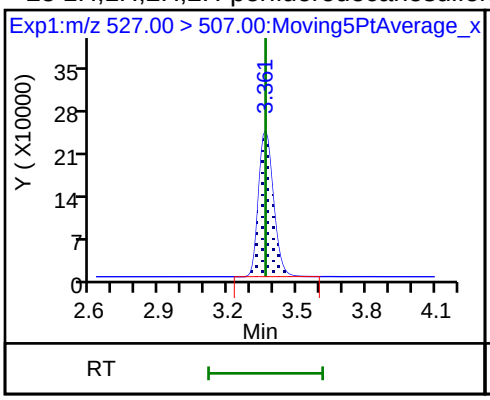
D 18 13C4 PFOS



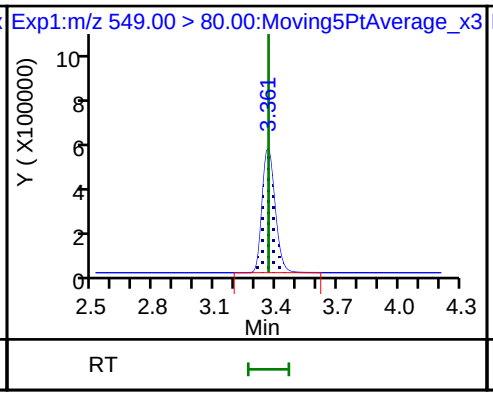
69 9-Chlorohexadecafluoro-3-oxanonane



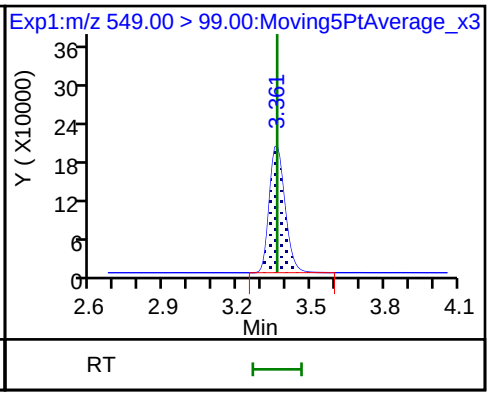
25 1H,1H,2H,2H-perfluorodecanesulfoni



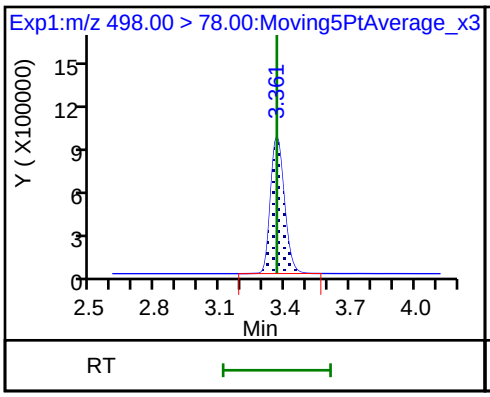
68 Perfluorononanesulfonic acid



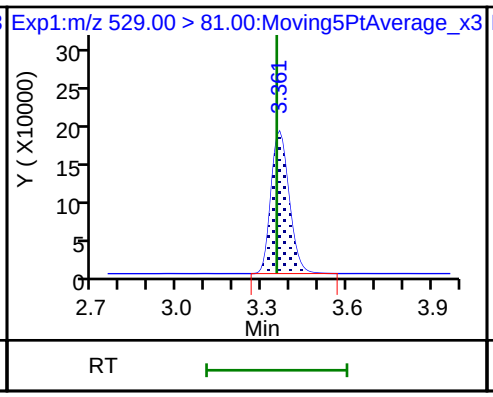
68 Perfluorononanesulfonic acid



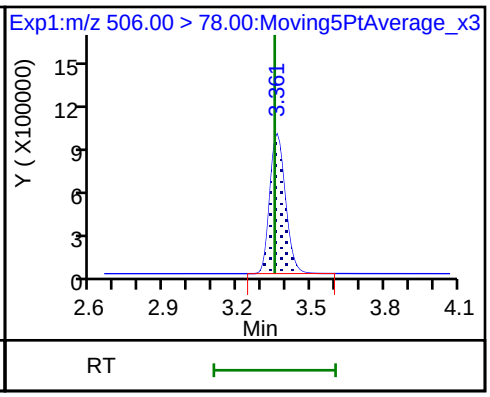
22 Perfluorooctane Sulfonamide



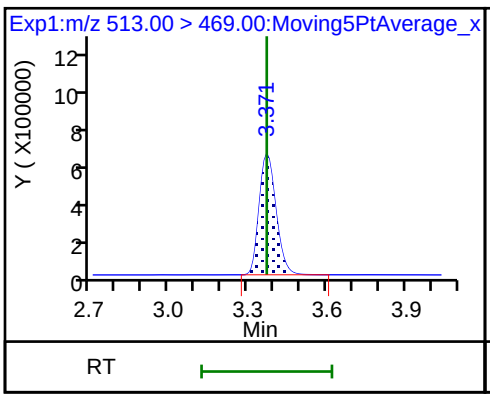
D 26 M2-8:2FTS



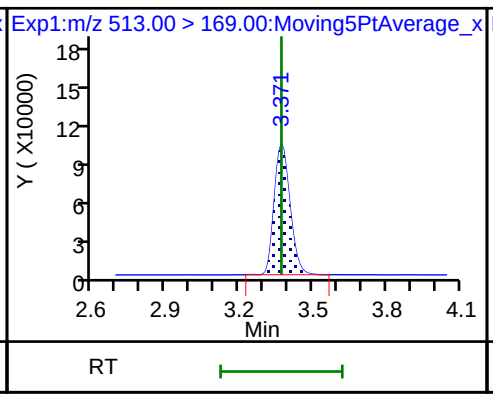
D 21 13C8 FOSA



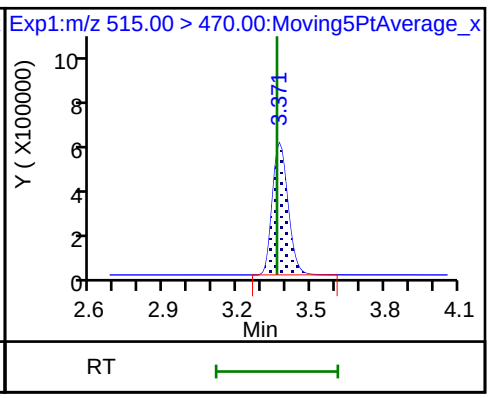
24 Perfluorodecanoic acid



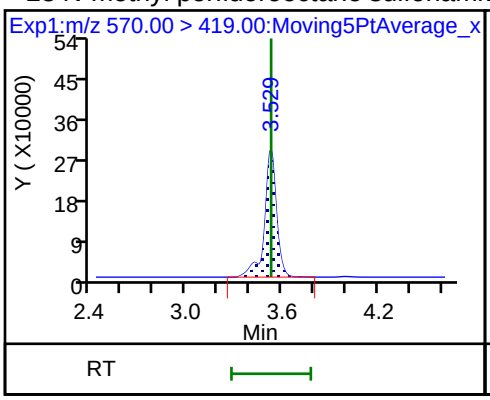
24 Perfluorodecanoic acid



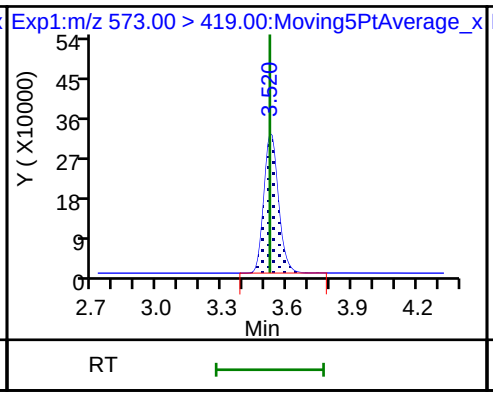
D 23 13C2 PFDA



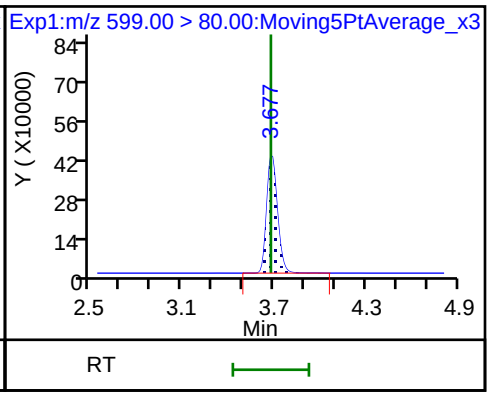
28 N-methyl perfluorooctane sulfonami



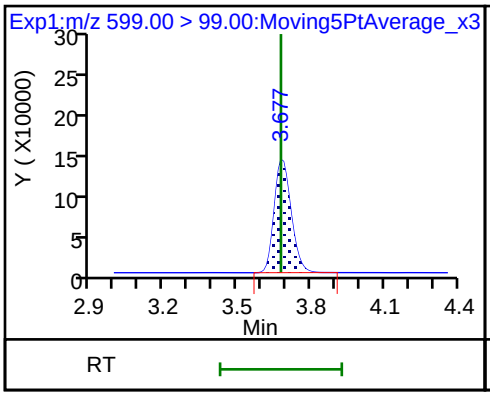
D 27 d3-NMeFOSAA



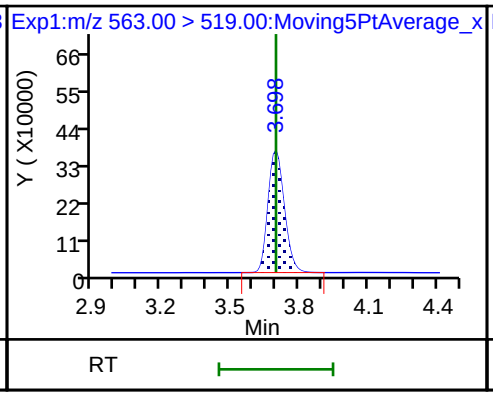
29 Perfluorodecane Sulfonic acid



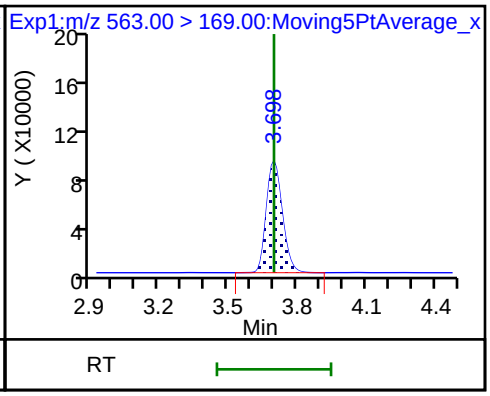
29 Perfluorodecane Sulfonic acid



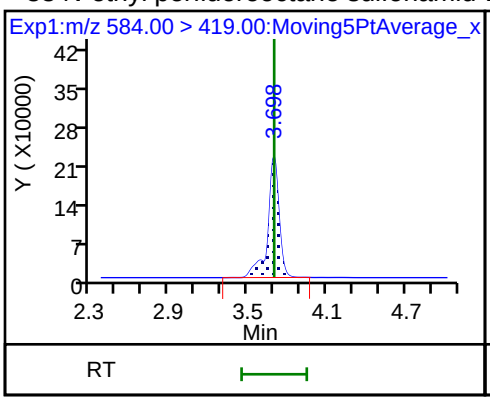
31 Perfluoroundecanoic acid



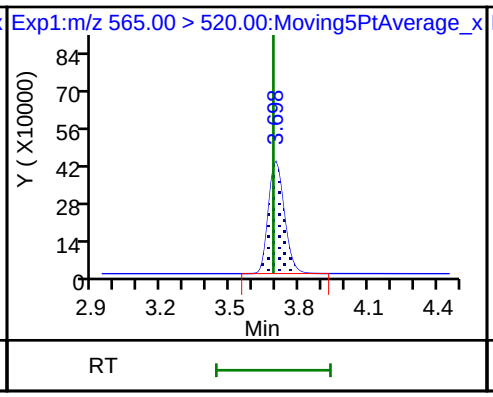
31 Perfluoroundecanoic acid



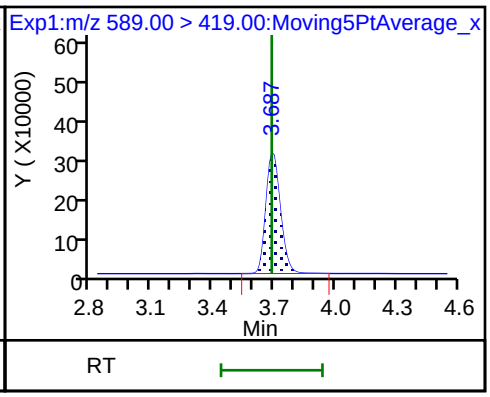
33 N-ethyl perfluorooctane sulfonamid



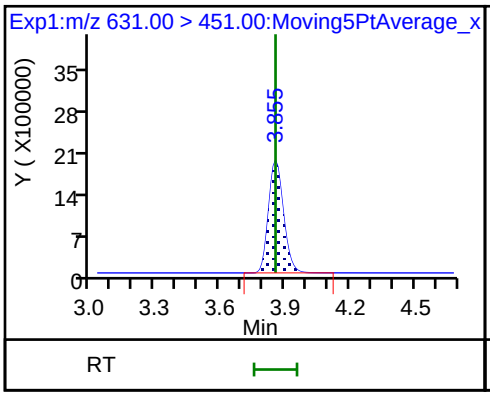
D 30 13C2 PFUnA



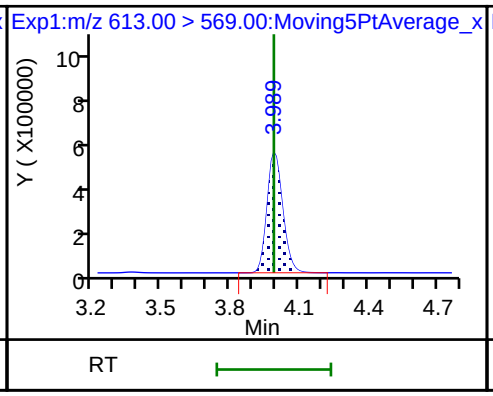
D 32 d5-NEtFOSAA



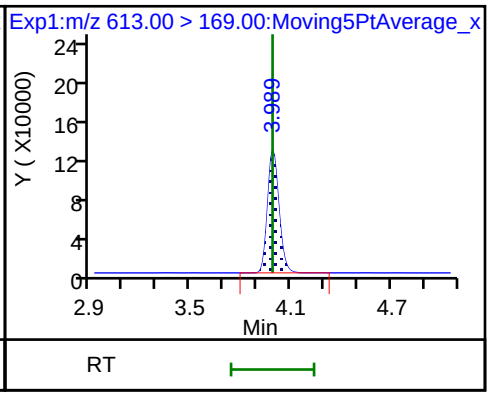
66 11-Chloroeicosafluoro-3-oxaundecan



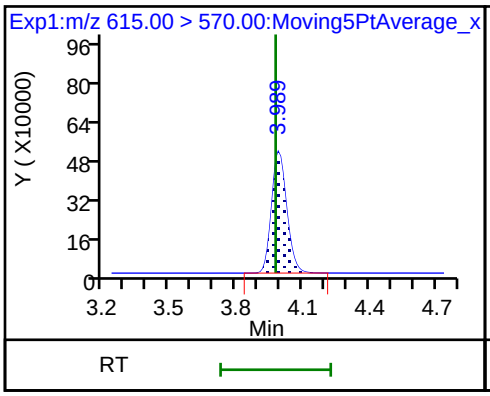
37 Perfluorododecanoic acid



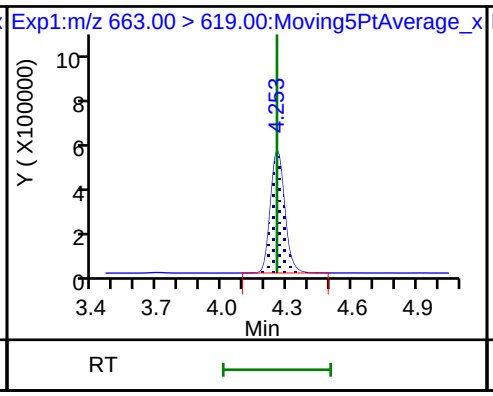
37 Perfluorododecanoic acid



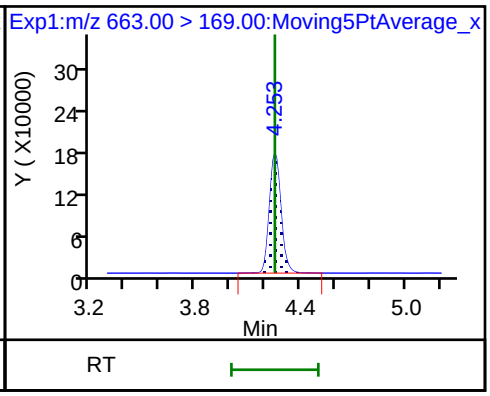
D 36 13C2 PFDoA



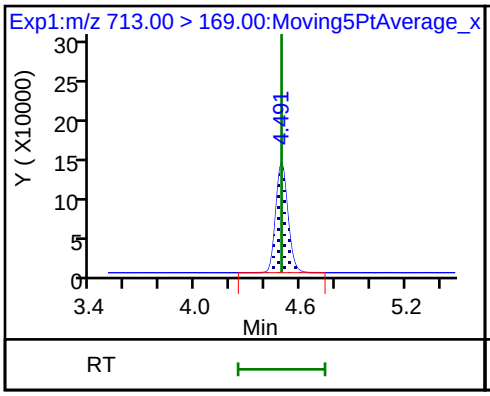
41 Perfluorotridecanoic acid



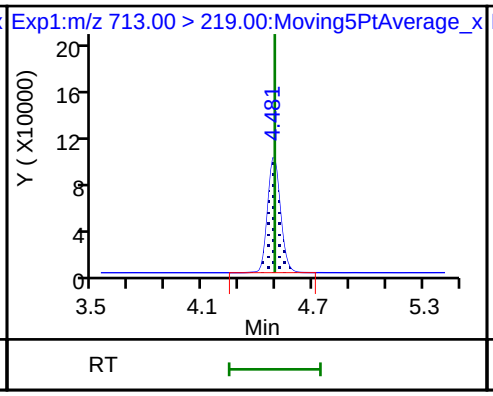
41 Perfluorotridecanoic acid



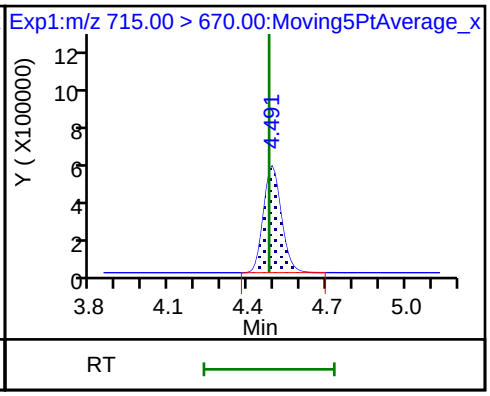
42 Perfluorotetradecanoic acid



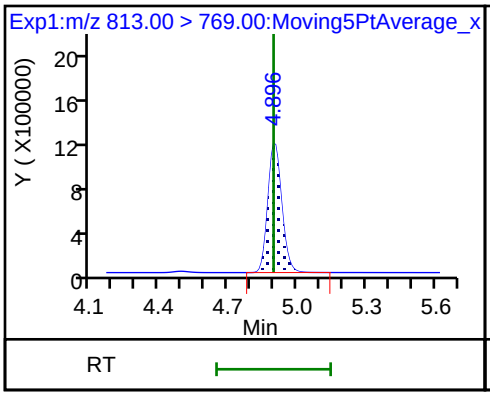
42 Perfluorotetradecanoic acid



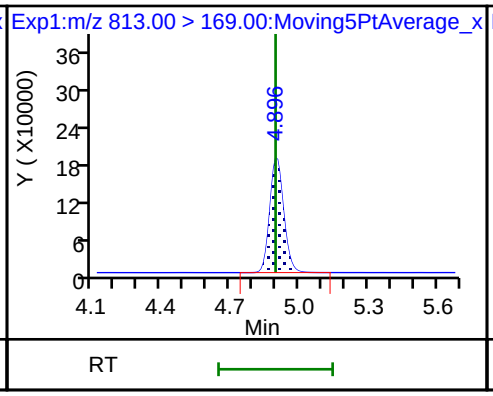
D 43 13C2-PFTeDA



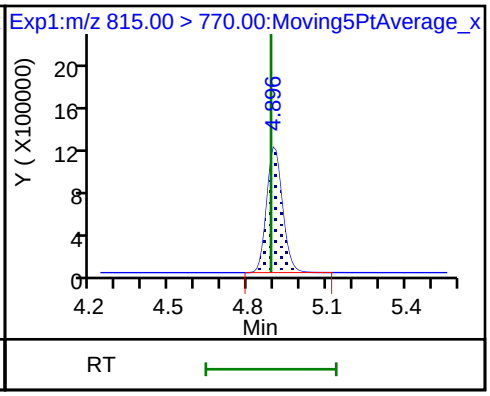
45 Perfluorohexadecanoic acid



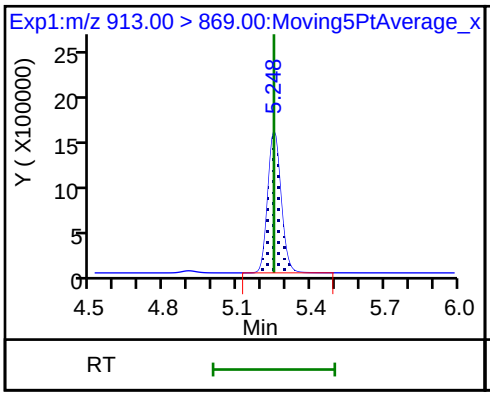
45 Perfluorohexadecanoic acid



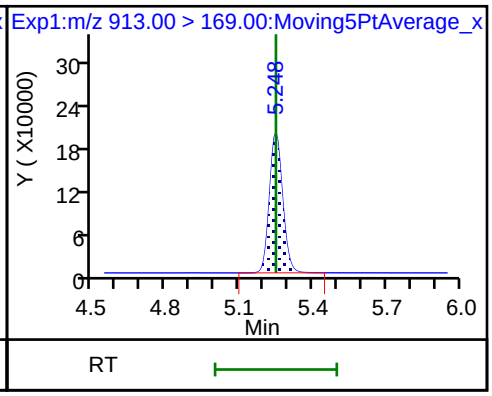
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-233476/10 Calibration Date: 07/11/2018 15:54

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.11LLICALA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.006		2.55	2.50	2.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.190		2.45	2.50	-1.9	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	75.70		2.19	2.21	-1.0	50.0
4:2 FTS	AveID	13.00	12.39		2.23	2.34	-4.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.045		2.54	2.50	1.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	67.50		2.27	2.35	-3.3	50.0
HFPO-DA (GenX)	AveID	2.654	2.929		2.76	2.50	10.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.129		2.44	2.50	-2.4	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.139		2.26	2.28	-0.8	40.0
ADONA	AveID	3.219	2.951		2.29	2.50	-8.3	50.0
6:2 FTS	AveID	1.564	1.662		2.52	2.37	6.2	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.189		2.42	2.50	-3.5	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.338		2.42	2.38	1.5	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.129		2.54	2.50	1.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.100		2.25	2.32	-2.9	40.0
F-53B Major	AveID	1.836	1.803		2.29	2.33	-1.8	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9614		2.44	2.50	-2.5	40.0
8:2 FTS	AveID	1.290	1.301		2.42	2.40	0.9	40.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7807		2.42	2.40	0.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.088		2.59	2.50	3.7	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	0.9853		2.50	2.50	-0.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6730		2.42	2.41	0.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.8891		2.51	2.50	0.6	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7701		2.35	2.50	-6.0	40.0
F-53B Minor	AveID	2.654	2.758		2.45	2.36	4.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.087		2.49	2.50	-0.5	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.119		2.62	2.50	4.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2656		2.55	2.50	2.1	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9129		2.38	2.50	-4.8	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.074		2.35	2.50	-6.0	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: ICV 320-233476/10 Calibration Date: 07/11/2018 15:54

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.11LLICALA_010.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.356	1.378		2.54	2.50	1.6	50.0
13C5 PFPeA	Ave	0.9425	0.9608		2.55	2.50	1.9	50.0
13C3-PFBS	Ave	0.0237	0.0248		2.43	2.33	4.5	50.0
M2-4:2FTS	Ave	0.1273	0.1297		2.38	2.34	1.9	50.0
13C2 PFHxA	Ave	1.017	1.045		2.57	2.50	2.7	50.0
13C3 HFPO-DA	Ave	0.0724	0.0672		2.32	2.50	-7.2	50.0
13C4-PFHpA	Ave	0.9371	0.9594		2.56	2.50	2.4	50.0
18O2 PFHxS	Ave	1.328	1.310		2.33	2.37	-1.3	50.0
M2-6:2FTS	Ave	0.2009	0.1917		2.27	2.38	-4.6	40.0
13C4 PFOA	Ave	0.9560	0.9622		2.52	2.50	0.6	50.0
13C4 PFOS	Ave	0.9742	1.017		2.49	2.39	4.4	50.0
13C5 PFNA	Ave	0.8546	0.8534		2.50	2.50	-0.1	50.0
13C8 FOSA	Ave	1.405	1.507		2.68	2.50	7.3	50.0
M2-8:2FTS	Ave	0.2939	0.2961		2.41	2.40	0.8	40.0
13C2 PFDA	Ave	0.7503	0.7467		2.49	2.50	-0.5	50.0
d3-NMeFOSAA	Ave	0.3075	0.3211		2.61	2.50	4.4	50.0
d5-NEtFOSAA	Ave	0.3150	0.3212		2.55	2.50	1.9	50.0
13C2 PFUnA	Ave	0.6266	0.6524		2.60	2.50	4.1	50.0
13C2 PFDoA	Ave	0.6496	0.6654		2.56	2.50	2.4	50.0
13C2-PFTeDA	Ave	0.6740	0.6932		2.57	2.50	2.8	50.0
13C2-PFHxDA	Ave	1.074	1.173		2.73	2.50	9.3	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_010.d
Lims ID: ICV Full
Client ID:
Sample Type: ICV
Inject. Date: 11-Jul-2018 15:54:23 ALS Bottle#: 17 Worklist Smp#: 10
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: ICV
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist:

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 11-Jul-2018 16:34:22 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK024

First Level Reviewer: westendorfc Date: 11-Jul-2018 16:22:14

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.430	1.431	-0.001	0.536	5662549	2.54		102	25171	
2 Perfluorobutyric acid										
212.90 > 169.00	1.435	1.431	0.004	1.004	5694181	2.55			2796	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.702	0.018	1.000	4700361	2.45			1877	
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.702	0.018	0.645	3948505	2.55		102	53954	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.748	0.008	0.658	94606	2.43		105	643	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.751	0.005	1.000	6807777	2.19			64304	
298.90 > 99.00	1.756	1.751	0.005	1.000	2776259		2.45(1.25-3.74)		37604	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.962	0.008	1.122	1177478	2.23			54136	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.962	0.008	0.739	497860	2.38		102	7684	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	1.996	0.007	0.751	4294759	2.57		103	86055	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.998	0.005	1.000	4489753	2.54			10643	
313.00 > 119.00	2.003	1.998	0.005	1.000	410563		10.94(5.03-15.10)		9304	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.022	0.003	1.154	6440627	2.27			105383	
349.00 > 99.00	2.025	2.022	0.003	1.154	2391078		2.69(1.36-4.07)		30821	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.093	0.0	0.785	276012	2.32		92.8	6290	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.095	-0.002	1.000	808359	2.76			4938	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.319	0.0	0.869	3942808	2.56		102	47725	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.319	0.0	1.000	4451513	2.44			8112	
363.00 > 169.00	2.319	2.319	0.0	1.000	1752355		2.54(1.13-3.40)		16512	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.332	0.0	1.000	5578276	2.26			27972	
399.00 > 99.00	2.332	2.332	0.0	1.000	1797150		3.10(1.50-4.49)		9813	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.334	-0.002	0.874	5091650	2.33		98.7	57623	
65 Adona										
377.00 > 251.00	2.358	2.360	-0.002	0.779	12331342	2.29			79894	
377.00 > 85.00	2.358	2.360	-0.002	0.779	7454068		1.65(0.84-2.53)		36223	
D 12 M2-6:2FTS										
429.00 > 81.00	2.644	2.645	-0.001	0.991	748501	2.27		95.4	13706	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.648	-0.004	1.000	1241375	2.52			19833	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.667	2.672	-0.005	1.000	4705604	2.42			3344	
413.00 > 169.00	2.667	2.672	-0.005	1.000	2411704		1.95(0.84-2.52)		11110	
* 62 13C2-PFOA										
415.00 > 370.00	2.667	2.672	-0.005		4109601	2.50			35548	
D 14 13C4 PFOA										
417.00 > 372.00	2.667	2.672	-0.005	1.000	3954191	2.52		101	41673	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.674	2.678	-0.004	0.884	5320943	2.42			32575	
449.00 > 99.00	2.674	2.678	-0.004	0.884	1364302		3.90(1.94-5.82)		18490	
D 18 13C4 PFOS										
503.00 > 80.00	3.026	3.034	-0.008	1.135	3994626	2.49		104	29003	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.035	-0.009	1.135	3507198	2.50		99.9	40014	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.035	-0.009	1.000	4265448	2.25			33190	
499.00 > 99.00	3.026	3.035	-0.009	1.000	948802		4.50(2.31-6.93)		11013	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.036	-0.010	1.000	3959562	2.54			8599	
463.00 > 169.00	3.026	3.036	-0.010	1.000	973781		4.07(1.90-5.69)		31878	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.245	-0.012	1.069	7020939	2.29			52039	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.367	-0.006	1.260	6194047	2.68		107	38519	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.361	3.371	-0.010	1.000	5955013	2.44			31773	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.371	3.377	-0.006	1.114	3131719	2.42			59993	
549.00 > 99.00	3.371	3.377	-0.006	1.114	1180397		2.65(1.33-3.97)		20818	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.371	3.380	-0.009	1.000	1516938	2.42			27887	
D 26 M2-8:2FTS										
529.00 > 81.00	3.371	3.380	-0.009	1.264	1165739	2.41		101	17380	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.391	-0.011	1.267	3068510	2.49		99.5	30066	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.392	-0.012	1.000	3338723	2.59			15753	
513.00 > 169.00	3.380	3.392	-0.012	1.000	607336		5.50(2.36-7.09)		15281	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.544	-0.015	1.323	1319394	2.61		104	32055	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.548	-0.010	1.003	1299929	2.50			10976	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.701	-0.014	1.219	2710734	2.42			63426	
599.00 > 99.00	3.687	3.701	-0.014	1.219	896556		3.02(1.39-4.16)		18844	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.710	-0.012	1.387	1319907	2.55		102	3301	
D 30 13C2 PFUnA										
565.00 > 520.00	3.709	3.716	-0.007	1.391	2681170	2.60		104	30671	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.709	3.718	-0.009	1.003	1173536	2.51			24732	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.709	3.718	-0.009	1.000	2064714	2.35			10830	
563.00 > 169.00	3.709	3.718	-0.009	1.000	560082		3.69(2.12-6.36)		29000	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.874	-0.008	1.278	10857363	2.45			103159	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.009	-0.010	1.500	2734442	2.56		102	19970	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	4.011	-0.012	1.000	2971924	2.49			1727	
613.00 > 169.00	3.999	4.011	-0.012	1.000	730621		4.07(2.13-6.40)		15446	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.263	4.273	-0.010	1.066	3060870	2.62			1290	
663.00 > 169.00	4.263	4.273	-0.010	1.066	906949		3.37(1.25-3.76)		12570	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.502	4.508	-0.006	1.688	2848581	2.57		103	16350	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.502	4.508	-0.006	1.000	756552	2.55			7628	
713.00 > 219.00	4.491	4.508	-0.017	0.998	522665		1.45(0.71-2.13)		8285	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.914	4.918	-0.004	1.843	4820793	2.73		109	12076	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.914	4.918	-0.004	1.000	4400685	2.38			894	
813.00 > 169.00	4.914	4.918	-0.004	1.000	738640		5.96(2.86-8.58)		6323	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.263	5.271	-0.008	1.071	5178447	2.35			844	
913.00 > 169.00	5.263	5.271	-0.008	1.071	623997		8.30(3.83-11.48)		5178	

Reagents:

LCPFCIC_FULL_00012 Amount Added: 1.00 Units: mL

Report Date: 11-Jul-2018 16:34:23 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_010.d

Injection Date: 11-Jul-2018 15:54:23 Instrument ID: A8_N

Lims ID: ICV Full

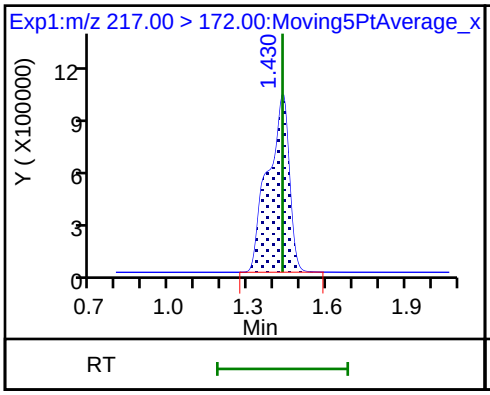
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 17 Worklist Smp#: 10

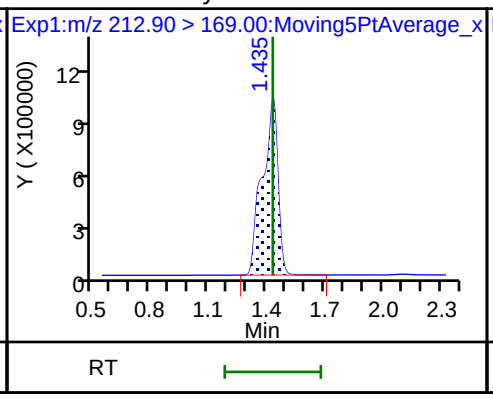
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

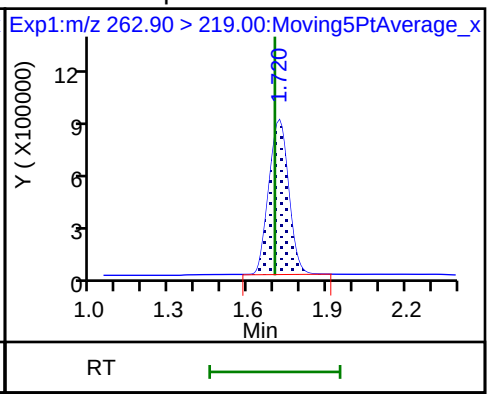
D 1 13C4 PFBA



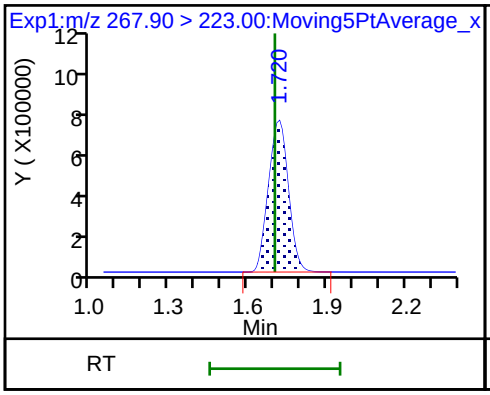
2 Perfluorobutyric acid



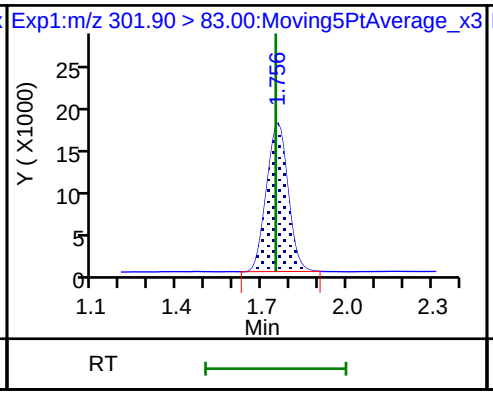
4 Perfluoropentanoic acid



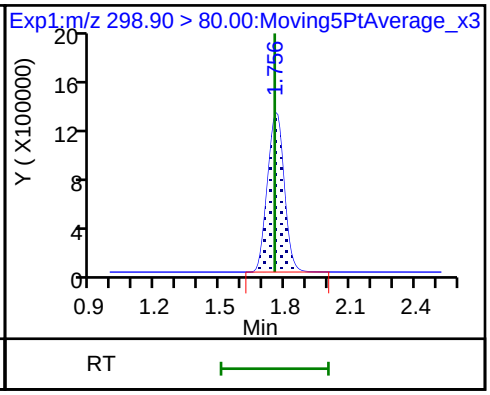
D 3 13C5-PFPeA



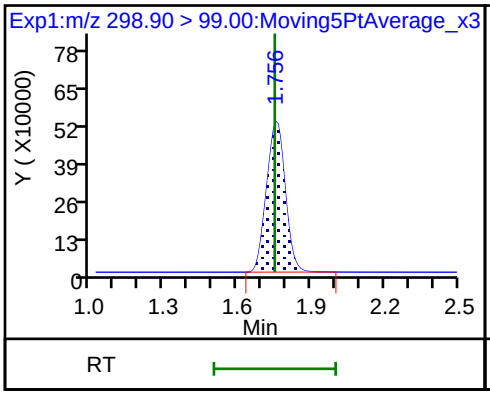
D 47 13C3-PFBS



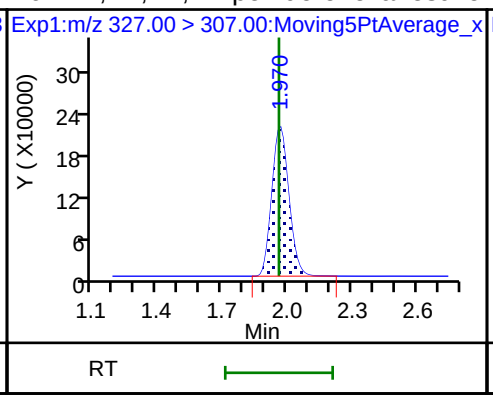
5 Perfluorobutanesulfonic acid



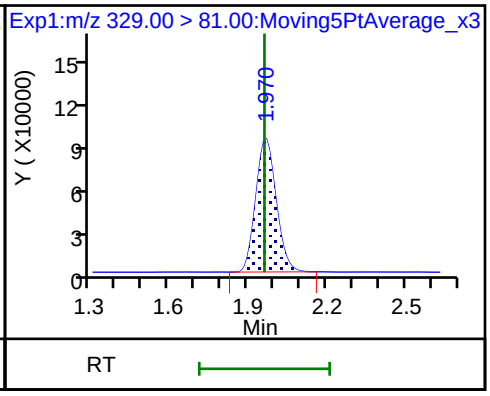
5 Perfluorobutanesulfonic acid



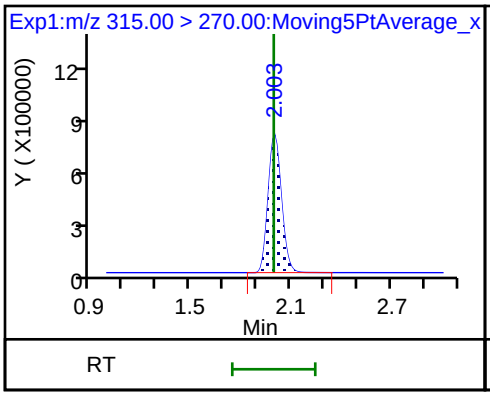
61 1H,1H,2H,2H-perfluorohexanesulfon



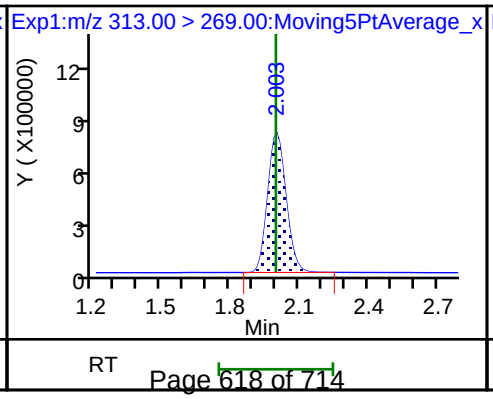
D 60 M2-4:2FTS



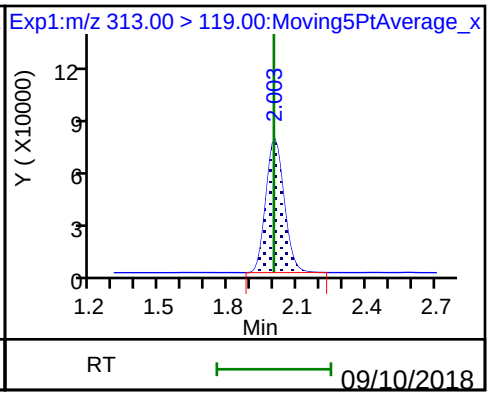
D 7 13C2 PFHxA



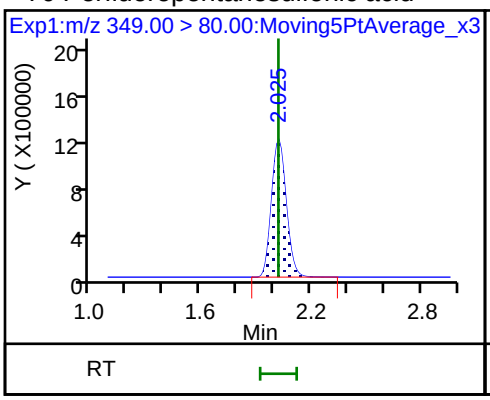
6 Perfluorohexanoic acid



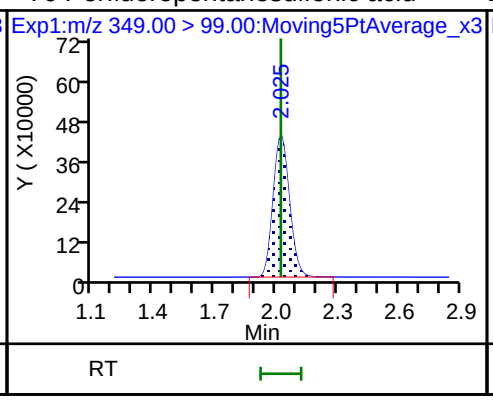
6 Perfluorohexanoic acid



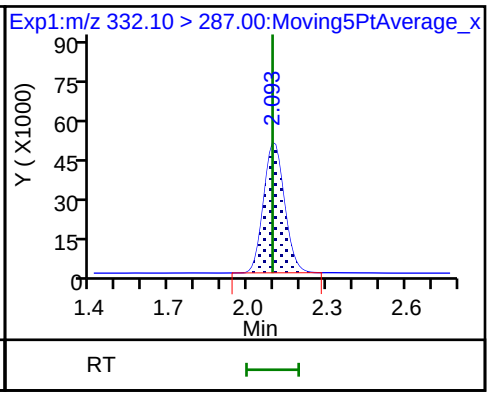
70 Perfluoropentanesulfonic acid



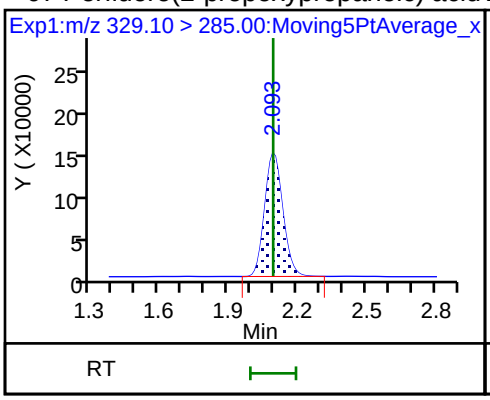
70 Perfluoropentanesulfonic acid



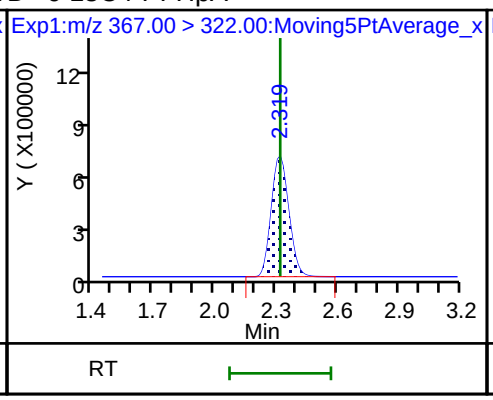
D 64 13C3 HFPO-DA



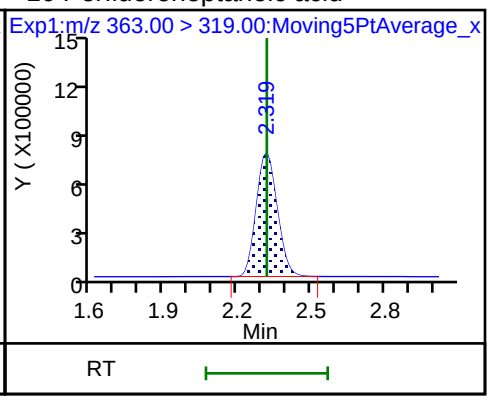
67 Perfluoro(2-propoxypropanoic) acid



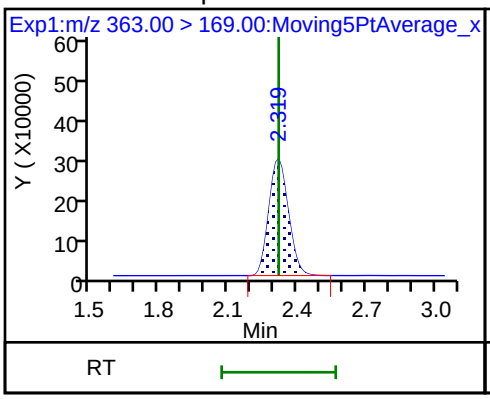
D 9 13C4-PFHpA



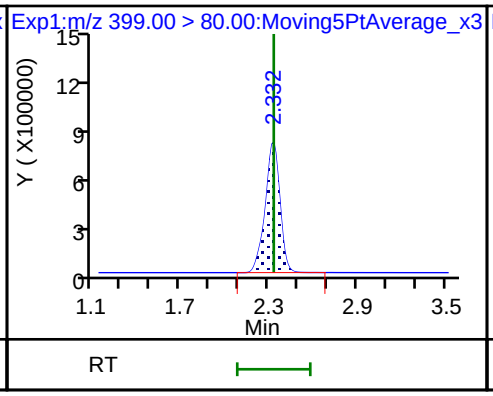
10 Perfluoroheptanoic acid



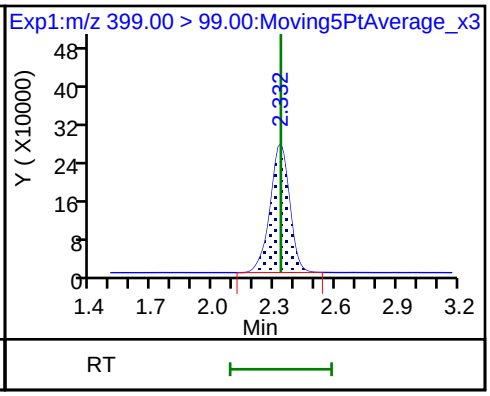
10 Perfluoroheptanoic acid



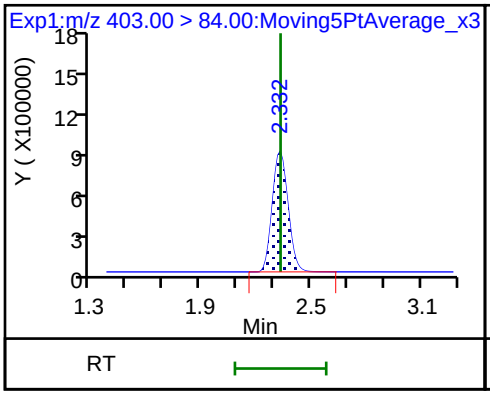
8 Perfluorohexanesulfonic acid



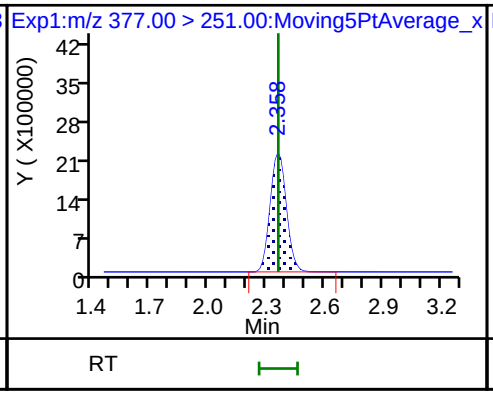
8 Perfluorohexanesulfonic acid



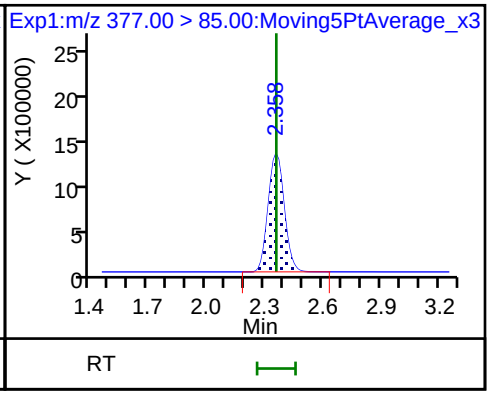
D 11 18O2 PFHxS



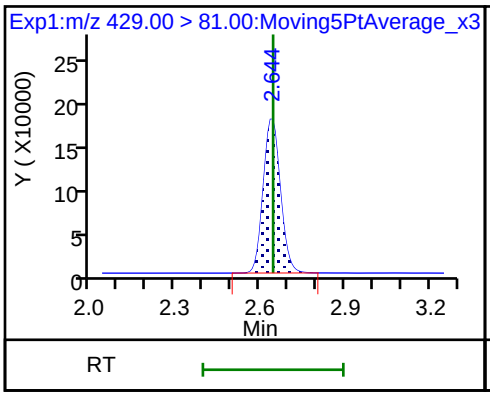
65 Adona



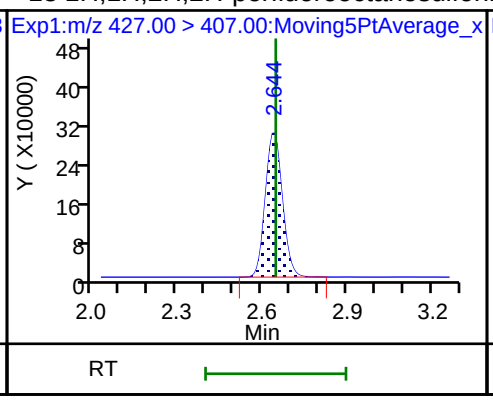
65 Adona



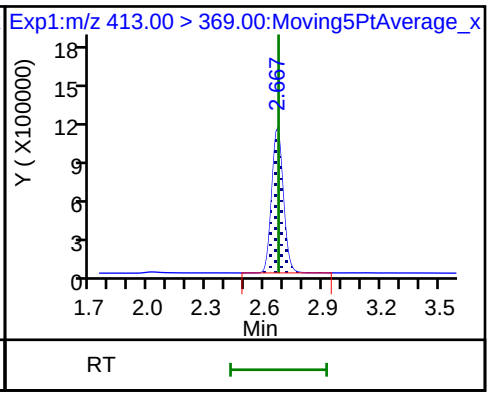
D 12 M2-6:2FTS



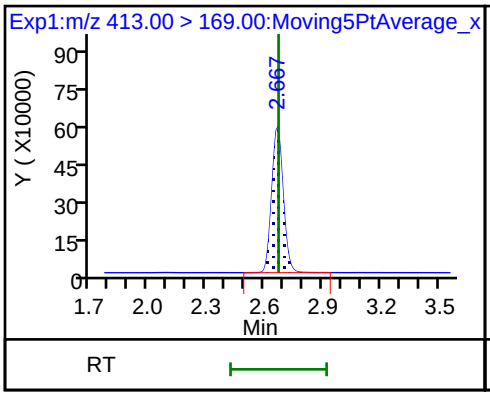
13 1H,1H,2H,2H-perfluorooctanesulfoni



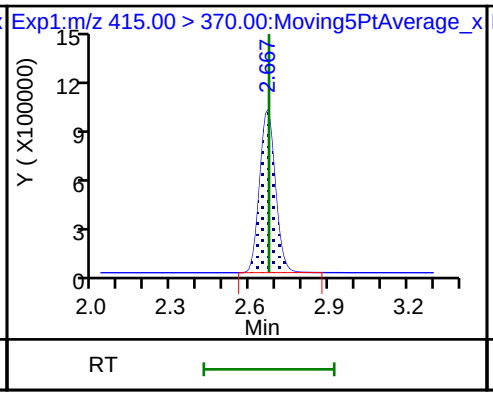
15 Perfluorooctanoic acid



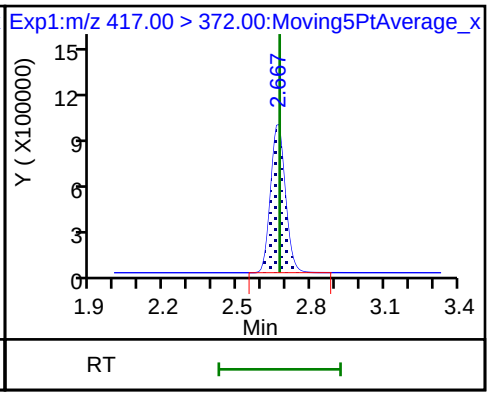
15 Perfluorooctanoic acid



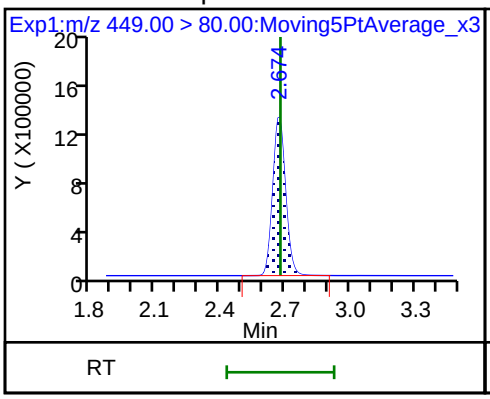
* 62 13C2-PFOA



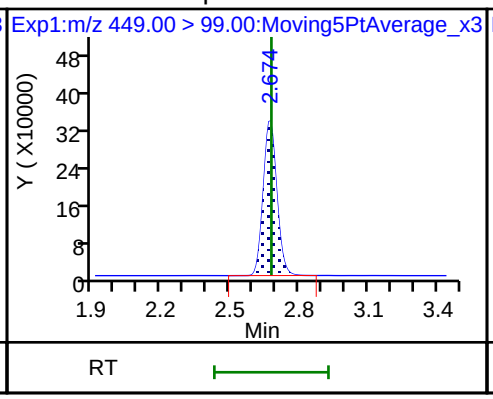
D 14 13C4 PFOA



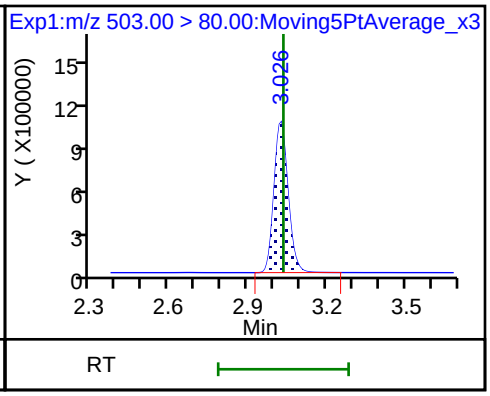
16 Perfluoroheptanesulfonic acid



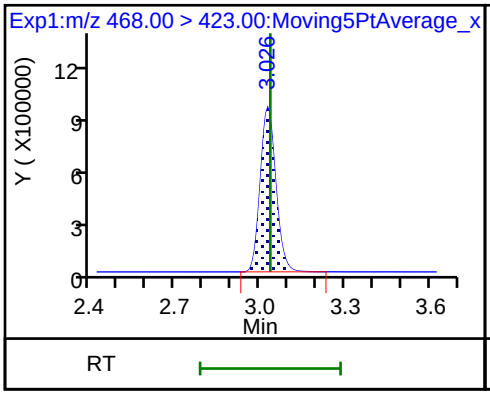
16 Perfluoroheptanesulfonic acid



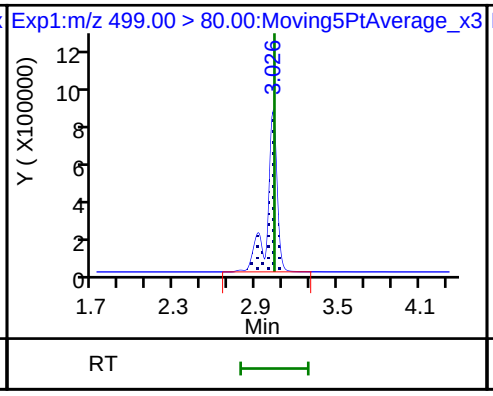
D 18 13C4 PFOS



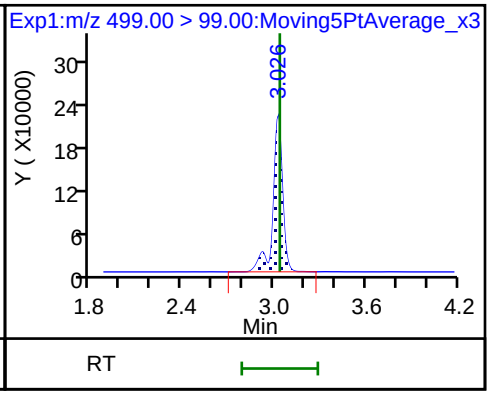
D 19 13C5 PFNA



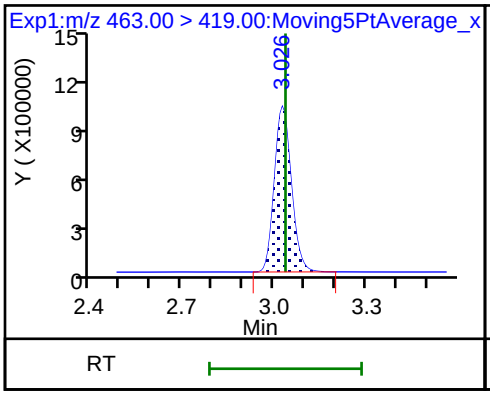
17 Perfluorooctane sulfonic acid



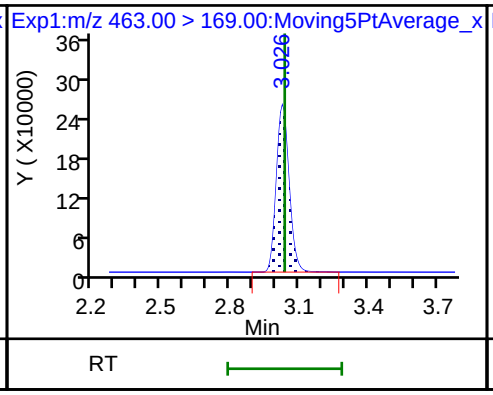
17 Perfluorooctane sulfonic acid



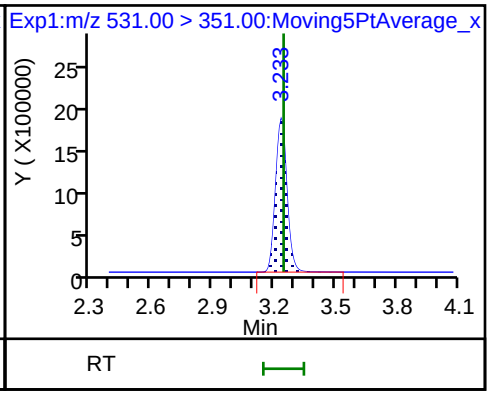
20 Perfluorononanoic acid



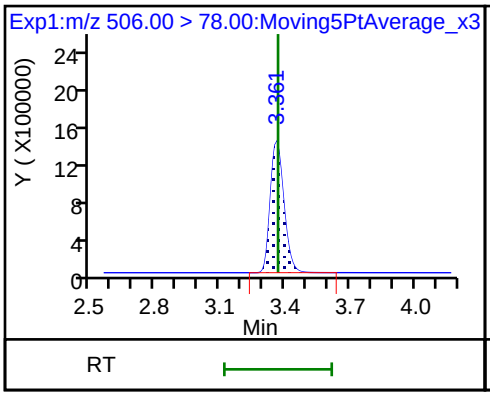
20 Perfluorononanoic acid



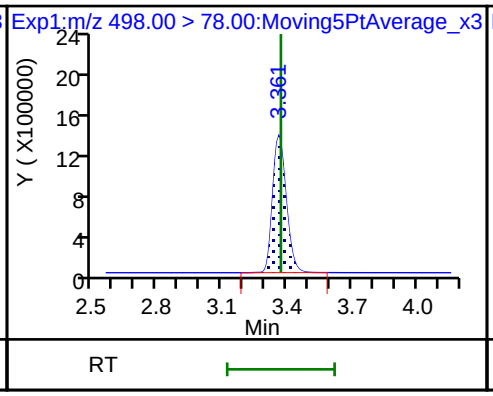
69 9-Chlorohexadecafluoro-3-oxanonane



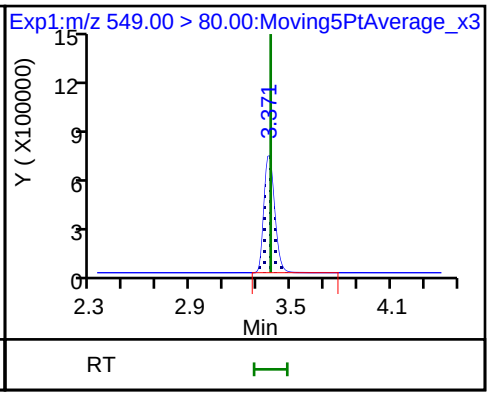
D 21 13C8 FOSA



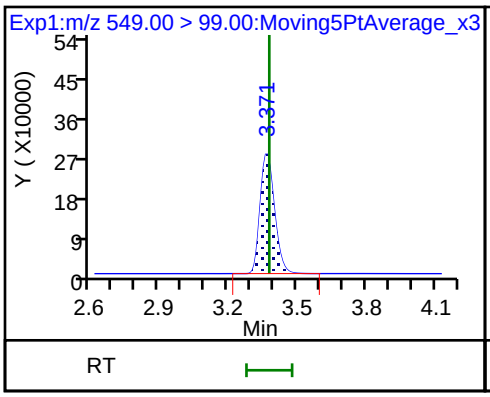
22 Perfluorooctane Sulfonamide



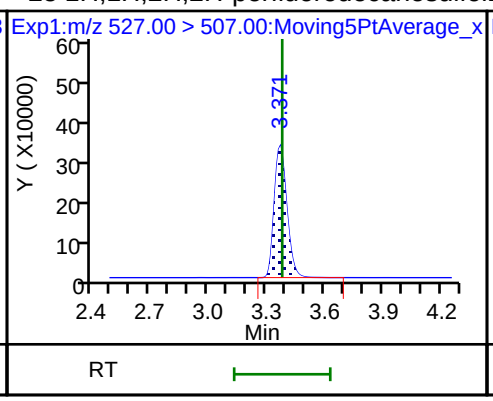
68 Perfluorononanesulfonic acid



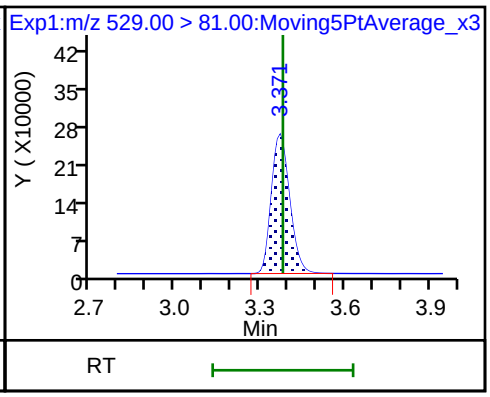
68 Perfluorononanesulfonic acid



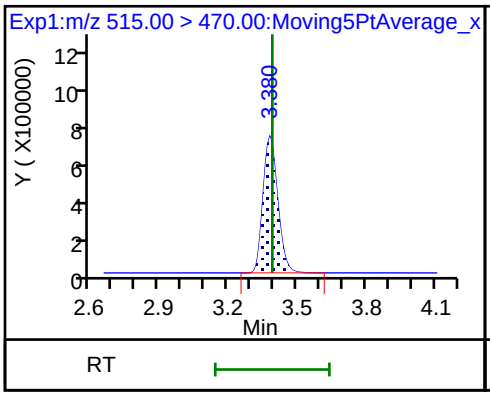
25 1H,1H,2H,2H-perfluorodecanesulfon



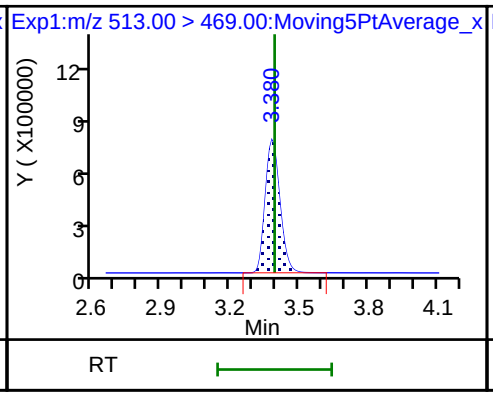
D 26 M2-8:2FTS



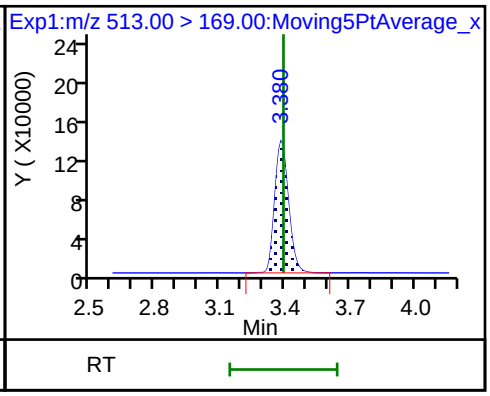
D 23 13C2 PFDA



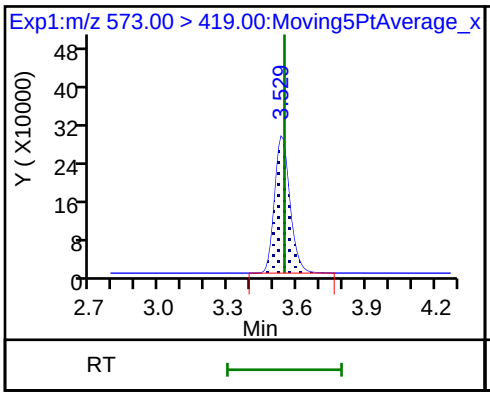
24 Perfluorodecanoic acid



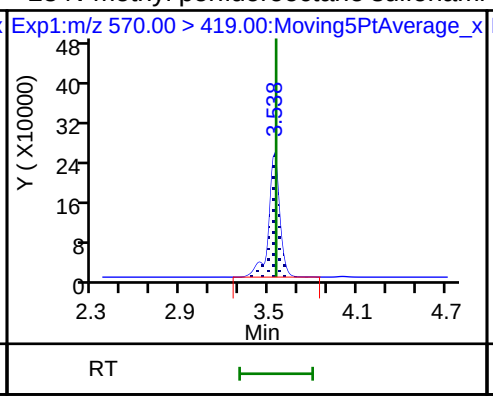
24 Perfluorodecanoic acid



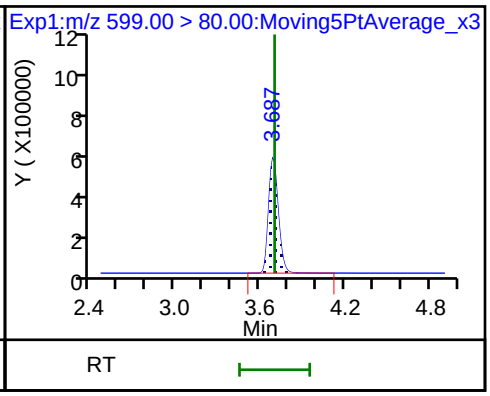
D 27 d3-NMeFOSAA



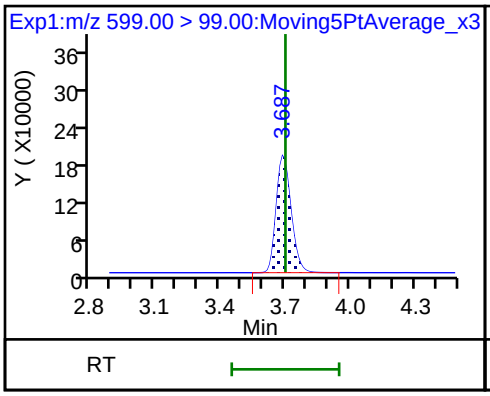
28 N-methyl perfluorooctane sulfonami



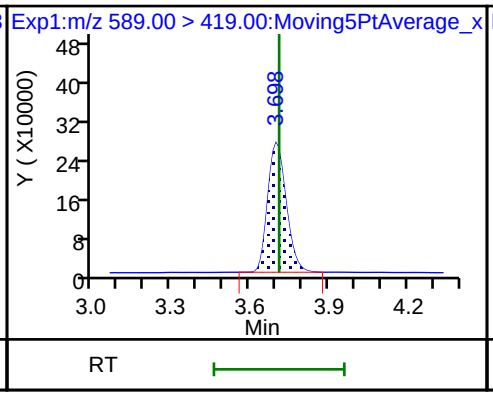
29 Perfluorodecane Sulfonic acid



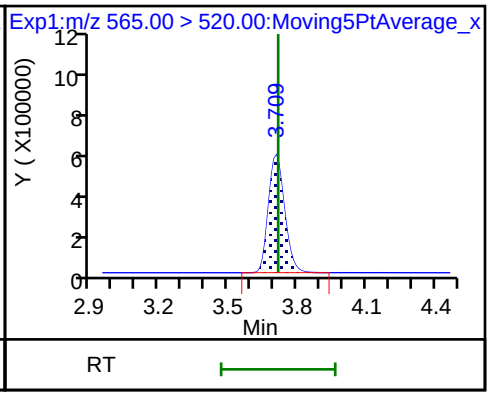
29 Perfluorodecane Sulfonic acid



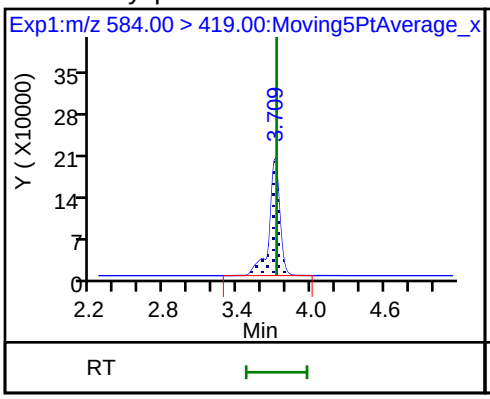
D 32 d5-NEtFOSAA



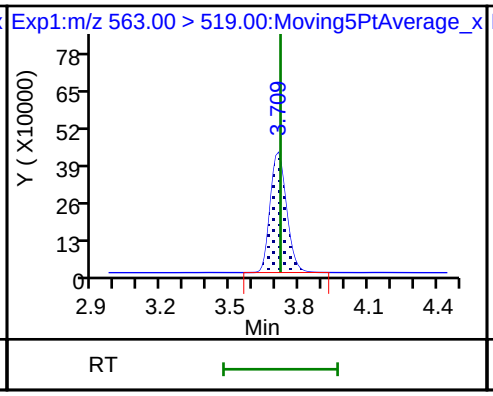
D 30 13C2 PFUnA



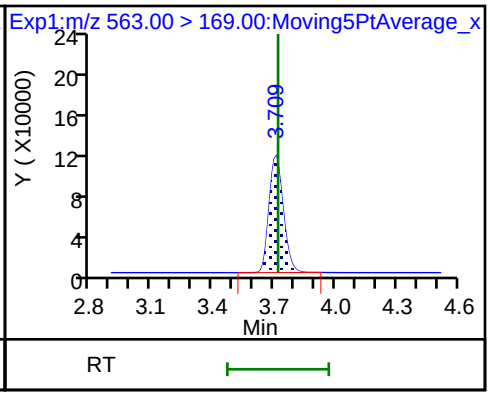
33 N-ethyl perfluorooctane sulfonamid



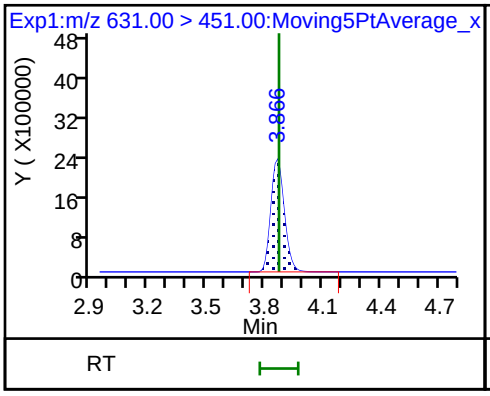
31 Perfluoroundecanoic acid



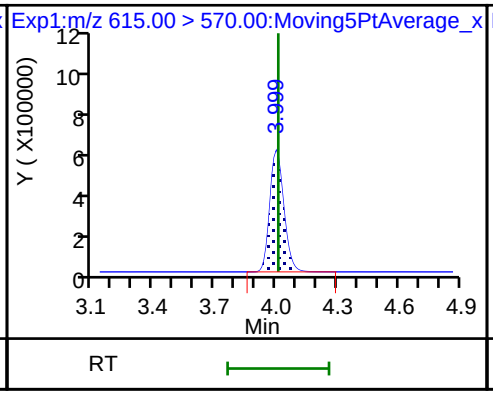
31 Perfluoroundecanoic acid



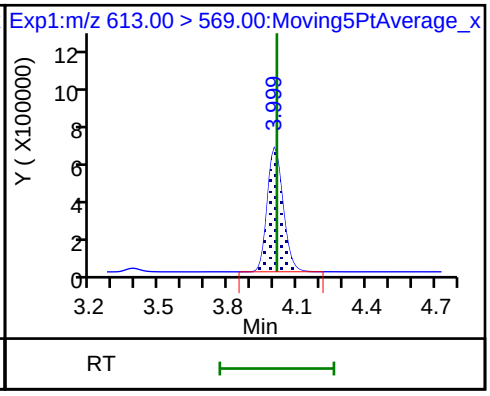
66 11-Chloroeicosafluoro-3-oxaundecan



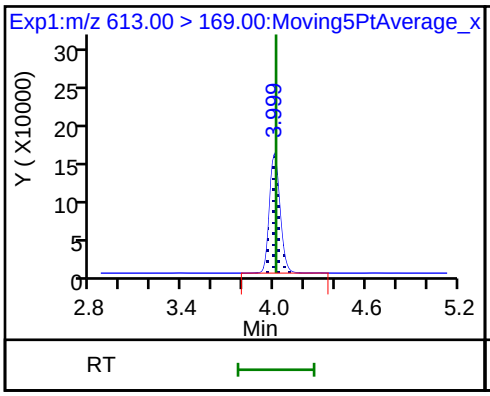
D 36 13C2 PFDoA



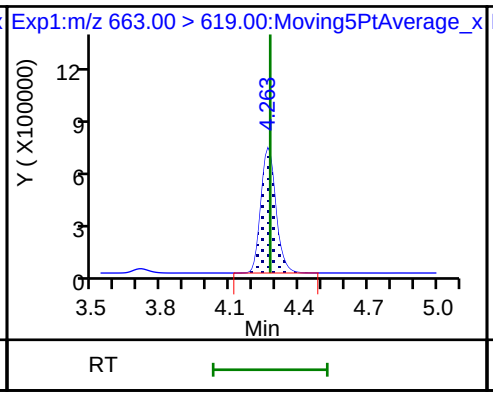
37 Perfluorododecanoic acid



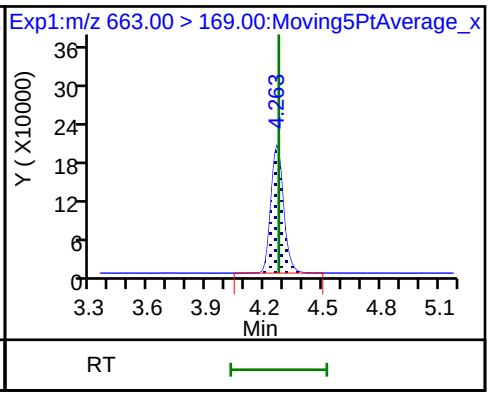
37 Perfluorododecanoic acid



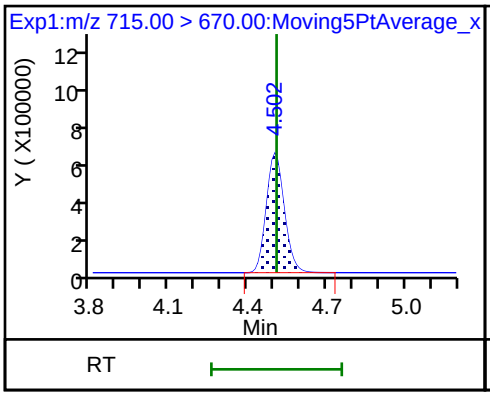
41 Perfluorotridecanoic acid



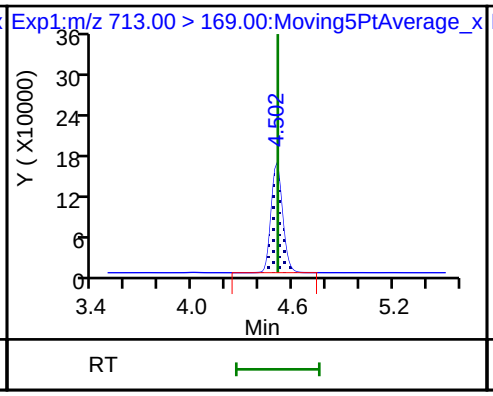
41 Perfluorotridecanoic acid



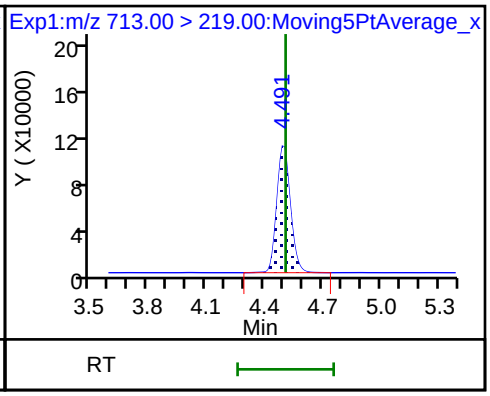
D 43 13C2-PFTeDA



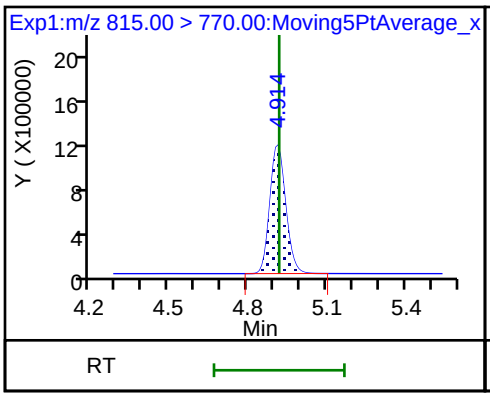
42 Perfluorotetradecanoic acid



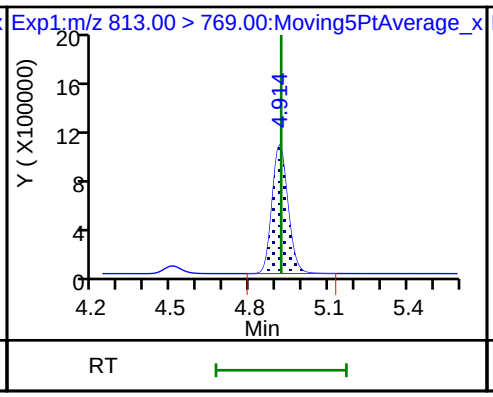
42 Perfluorotetradecanoic acid



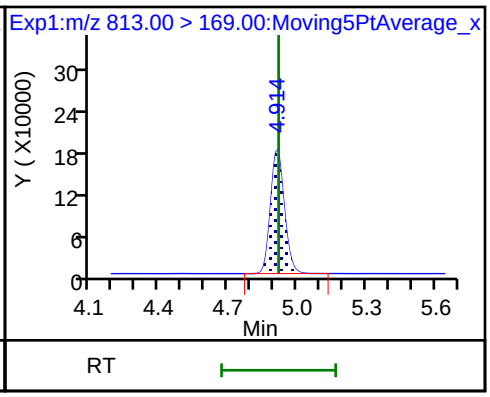
D 44 13C2-PFHxDA



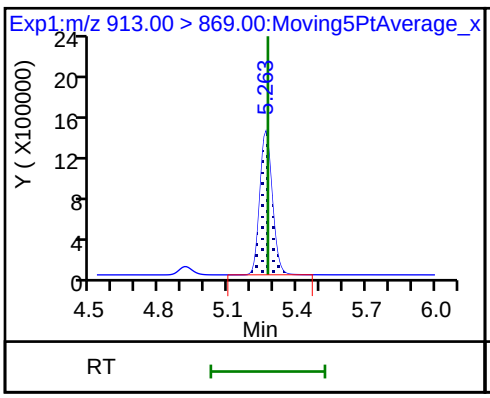
45 Perfluorohexadecanoic acid



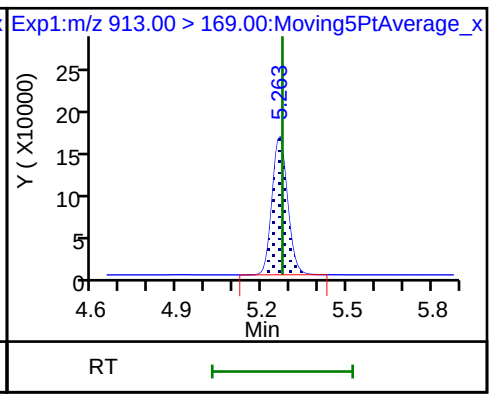
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233780/2 Calibration Date: 07/13/2018 00:10

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.000		0.0507	0.0500	1.5	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.252		0.0516	0.0500	3.2	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	80.07		0.0463	0.0442	4.7	50.0
4:2 FTS	AveID	13.00	14.15			0.0467	8.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.141		0.0554	0.0500	10.8	50.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	74.55		0.0501	0.0469	6.8	50.0
HFPO-DA (GenX)	AveID	2.654	2.293		0.0432	0.0500	-13.6	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.071		0.0463	0.0500	-7.4	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.253		0.0497	0.0455	9.2	50.0
ADONA	AveID	3.219	3.447		0.0504	0.0471	7.1	50.0
6:2 FTS	AveID	1.564	1.821		0.0552	0.0474	16.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.294		0.0526	0.0501	5.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.384		0.0500	0.0476	5.0	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.134		0.0464	0.0464	0.0	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.058		0.0477	0.0500	-4.6	50.0
F-53B Major	AveID	1.836	1.855		0.0471	0.0466	1.0	50.0
8:2 FTS	AveID	1.290	1.147			0.0479	-11.1	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7544		0.0467	0.0480	-2.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9475		0.0481	0.0500	-3.9	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.172		0.0558	0.0500	11.7	50.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	1.019			0.0500	3.3	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6996		0.0502	0.0482	4.2	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9771		0.0553	0.0500	10.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.8526		0.0520	0.0500	4.0	50.0
F-53B Minor	AveID	2.654	2.788		0.0495	0.0471	5.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.079		0.0494	0.0500	-1.2	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	0.8974		0.0420	0.0500	-15.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2680		0.0515	0.0500	3.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.376		0.0508	0.0500	1.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.166		0.0510	0.0500	2.0	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCVL 320-233780/2 Calibration Date: 07/13/2018 00:10

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_005.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.356	1.357		2.50	2.50	0.1	50.0
13C5 PFPeA	Ave	0.9425	0.9460		2.51	2.50	0.4	50.0
13C3-PFBS	Ave	0.0237	0.0238		2.33	2.33	0.4	50.0
M2-4:2FTS	Ave	0.1273	0.1272		2.33	2.34	-0.0	50.0
13C2 PFHxA	Ave	1.017	1.081		2.66	2.50	6.3	50.0
13C3 HFPO-DA	Ave	0.0724	0.0872		3.01	2.50	20.5	50.0
13C4-PFHpA	Ave	0.9371	1.008		2.69	2.50	7.6	50.0
18O2 PFHxS	Ave	1.328	1.328		2.37	2.37	0.0	50.0
M2-6:2FTS	Ave	0.2009	0.1941		2.29	2.38	-3.4	50.0
13C4 PFOA	Ave	0.9560	0.9697		2.54	2.50	1.4	50.0
13C4 PFOS	Ave	0.9742	0.9841		2.41	2.39	1.0	50.0
13C5 PFNA	Ave	0.8546	0.8403		2.46	2.50	-1.7	50.0
13C8 FOSA	Ave	1.405	1.504		2.68	2.50	7.0	50.0
M2-8:2FTS	Ave	0.2939	0.2594		2.11	2.40	-11.7	50.0
13C2 PFDA	Ave	0.7503	0.7546		2.51	2.50	0.6	50.0
d3-NMeFOSAA	Ave	0.3075	0.3372		2.74	2.50	9.7	50.0
d5-NEtFOSAA	Ave	0.3150	0.3953		3.14	2.50	25.5	50.0
13C2 PFUnA	Ave	0.6266	0.6483		2.59	2.50	3.5	50.0
13C2 PFDoA	Ave	0.6496	0.7146		2.75	2.50	10.0	50.0
13C2-PFTeDA	Ave	0.6740	0.7415		2.75	2.50	10.0	50.0
13C2-PFHxDA	Ave	1.074	1.228		2.86	2.50	14.4	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d
Lims ID: CCVL
Client ID:
Sample Type: CCVL
Inject. Date: 13-Jul-2018 00:10:05 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCVL
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:05:01 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:05:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.428	1.424	0.004	1.000	103241	0.0507		101	56.8	
D 1 13C4 PFBA										
217.00 > 172.00	1.428	1.429	-0.001	0.536	5161572	2.50		100	24612	
D 3 13C5-PFPeA										
267.90 > 223.00	1.717	1.719	-0.002	0.644	3597228	2.51		100	46749	
4 Perfluoropentanoic acid										M
262.90 > 219.00	1.717	1.720	-0.003	1.000	90080	0.0516		103	34.7	M
D 47 13C3-PFBS										
301.90 > 83.00	1.762	1.764	-0.002	0.661	84119	2.33		100	583	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.762	1.765	-0.003	1.000	128052	0.0463		105	1349	
298.90 > 99.00	1.762	1.765	-0.003	1.000	51679		2.48(1.25-3.74)		1051	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.978	1.970	0.008	1.123	23908	0.0508		109	1074	
D 60 M2-4:2FTS										
329.00 > 81.00	1.978	1.980	-0.002	0.742	451634	2.33		99.9	8992	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.003	0.008	1.000	93793	0.0554		111	250	
313.00 > 119.00	2.011	2.003	0.008	1.000	9329		10.05(5.03-15.10)		206	
D 7 13C2 PFHxA										
315.00 > 270.00	2.011	2.014	-0.003	0.754	4111216	2.66		106	55546	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.034	2.026	0.008	1.154	126503	0.0501		107	3738	
349.00 > 99.00	2.022	2.026	-0.004	1.148	42615		2.97(1.36-4.07)		1229	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.101	2.094	0.007	1.000	15201	0.0432		86.4	118	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.104	-0.003	0.788	331538	3.01		120	7440	
D 9 13C4-PFHpA										
367.00 > 322.00	2.316	2.319	-0.003	0.869	3834162	2.69		108	45935	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.316	2.320	-0.004	1.000	82139	0.0463		92.6	173	
363.00 > 169.00	2.329	2.320	0.009	1.006	32275		2.54(1.13-3.40)		381	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.329	2.333	-0.004	1.000	115166	0.0497		109	1291	
399.00 > 99.00	2.329	2.333	-0.004	1.000	40087		2.87(1.50-4.49)		407	
D 11 18O2 PFHxS										
403.00 > 84.00	2.329	2.345	-0.016	0.874	4777420	2.37		100	44263	
65 Adona										
377.00 > 251.00	2.369	2.359	0.010	0.783	243048	0.0504		107	5276	
377.00 > 85.00	2.369	2.359	0.010	0.783	141514		1.72(0.84-2.53)		1003	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.643	2.644	-0.001	1.000	25481	0.0552		116	853	
D 12 M2-6:2FTS										
429.00 > 81.00	2.643	2.652	-0.009	0.991	701246	2.29		96.6	18838	
* 62 13C2-PFOA										
415.00 > 370.00	2.666	2.668	-0.002		3802645	2.50			33668	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.666	2.668	-0.002	1.000	95532	0.0526		105	55.4	
413.00 > 169.00	2.666	2.668	-0.002	1.000	50441		1.89(0.84-2.52)		295	
D 14 13C4 PFOA										
417.00 > 372.00	2.666	2.674	-0.008	1.000	3687592	2.54		101	40149	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.673	2.675	-0.002	0.883	98608	0.0500		105	3424	
449.00 > 99.00	2.673	2.675	-0.002	0.883	26586		3.71(1.94-5.82)		904	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.027	3.024	0.003	1.000	78767	0.0464		100	2240	
499.00 > 99.00	3.034	3.024	0.010	1.002	19629		4.01(2.31-6.93)		316	
20 Perfluorononanoic acid										
463.00 > 419.00	3.034	3.024	0.010	1.000	67616	0.0477		95.4	177	
463.00 > 169.00	3.034	3.024	0.010	1.000	18610		3.63(1.90-5.69)		965	
D 19 13C5 PFNA										
468.00 > 423.00	3.034	3.030	0.004	1.138	3195433	2.46		98.3	41621	
D 18 13C4 PFOS										
503.00 > 80.00	3.027	3.030	-0.003	1.135	3577399	2.41		101	33537	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.242	3.232	0.010	1.071	129380	0.0471		101	1682	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.372	3.361	0.011	1.114	54204	0.0467		97.3	2115	
549.00 > 99.00	3.372	3.361	0.011	1.114	23428		2.31(1.33-3.97)		644	
D 21 13C8 FOSA										
506.00 > 78.00	3.372	3.368	0.004	1.265	5717499	2.68		107	42141	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.372	3.370	0.002	1.000	108347	0.0481		96.1	3556	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.372	3.370	0.002	1.000	21680	0.0426		88.9	351	
D 26 M2-8:2FTS										
529.00 > 81.00	3.372	3.378	-0.006	1.265	944959	2.11		88.3	17874	
24 Perfluorodecanoic acid										R
513.00 > 469.00	3.382	3.380	0.002	1.000	67269	0.0558		112	454	R
513.00 > 169.00	3.382	3.380	0.002	1.000	9177		7.33(2.36-7.09)		424	
D 23 13C2 PFDA										
515.00 > 470.00	3.382	3.387	-0.005	1.268	2869484	2.51		101	25972	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.531	3.536	-0.005	1.325	1282239	2.74		110	25391	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.540	3.538	0.002	1.003	26123	0.0517		103	250	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.689	3.687	0.002	1.219	50475	0.0502		104	2108	
599.00 > 99.00	3.689	3.687	0.002	1.219	14494		3.48(1.39-4.16)		613	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.711	3.698	0.013	1.003	29375	0.0553		111	700	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.711	3.698	0.013	1.000	42036	0.0520		104	206	
563.00 > 169.00	3.711	3.698	0.013	1.000	14128		2.98(2.12-6.36)		978	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.700	3.707	-0.007	1.388	1503182	3.14		125	3947	
D 30 13C2 PFUnA										
565.00 > 520.00	3.711	3.707	0.004	1.392	2465220	2.59		103	73344	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.867	3.855	0.012	1.278	196520	0.0495		105	6886	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	3.999	0.0	1.000	58621	0.0494		98.8	40.6	
613.00 > 169.00	3.999	3.999	0.0	1.000	15521		3.78(2.13-6.40)		480	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.500	2717350	2.75		110	23239	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	48772	0.0420		84.1	26.3	
663.00 > 169.00	4.262	4.262	0.0	1.066	17738		2.75(1.25-3.76)		489	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.491	0.010	1.000	15115	0.0515		103	265	
713.00 > 219.00	4.490	4.491	-0.001	0.998	10037		1.51(0.71-2.13)		269	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.501	0.0	1.688	2819673	2.75		110	15741	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.840	4671219	2.86		114	12339	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	128509	0.0508		102	28.8	
813.00 > 169.00	4.905	4.905	0.0	1.000	23636		5.44(2.86-8.58)		264	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	108960	0.0510		102	21.5	
913.00 > 169.00	5.255	5.255	0.0	1.071	12974		8.40(3.83-11.48)		248	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL2_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:05:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d

Injection Date: 13-Jul-2018 00:10:05 Instrument ID: A8_N

Lims ID: CCVL

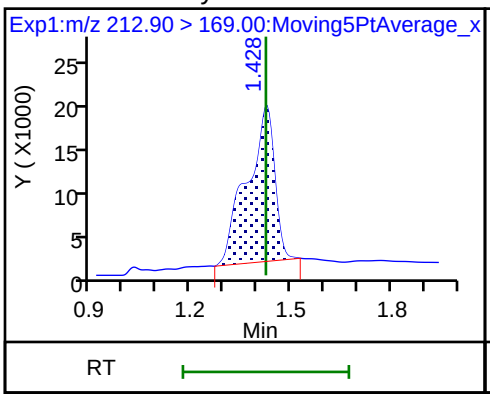
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2

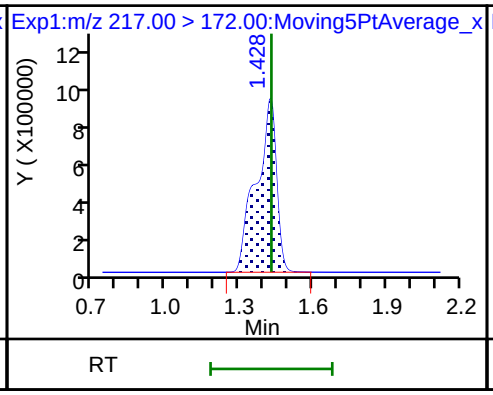
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

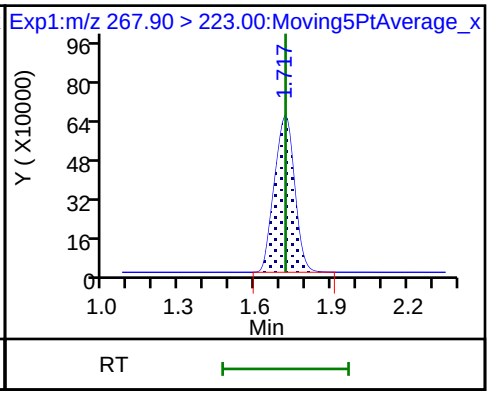
2 Perfluorobutyric acid



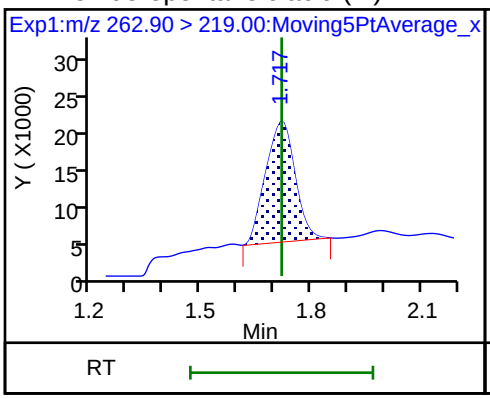
D 1 13C4 PFBA



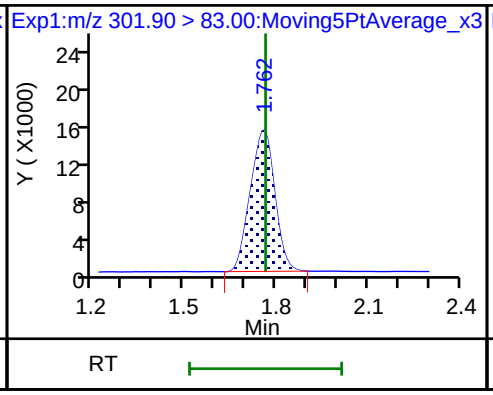
D 3 13C5-PFPeA



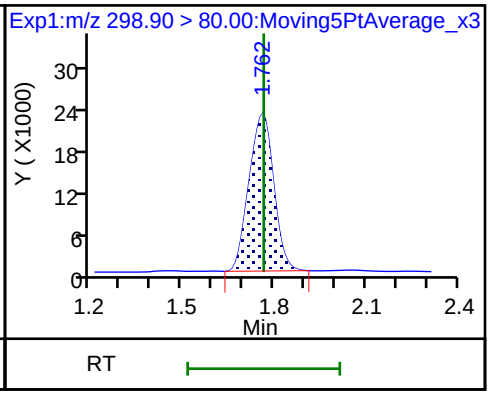
4 Perfluoropentanoic acid (M)



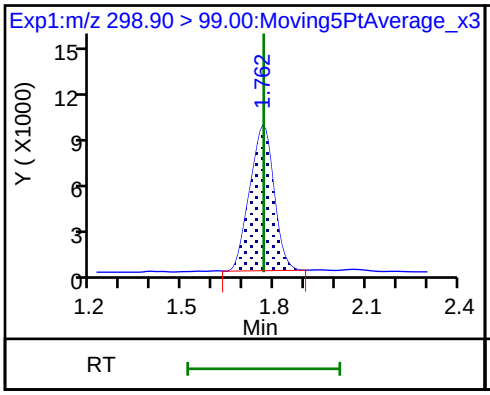
D 47 13C3-PFBS



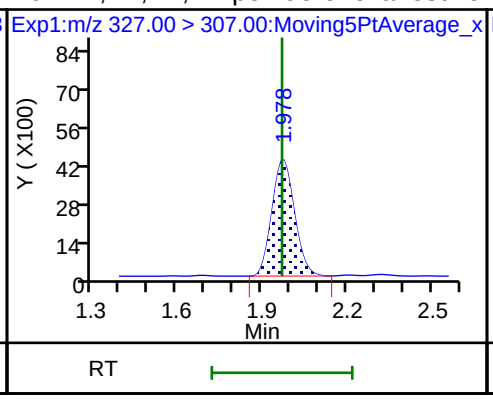
5 Perfluorobutanesulfonic acid



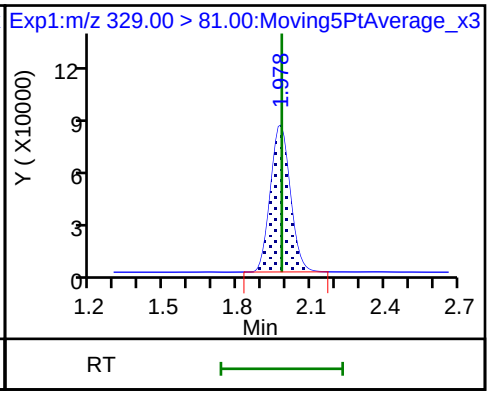
5 Perfluorobutanesulfonic acid



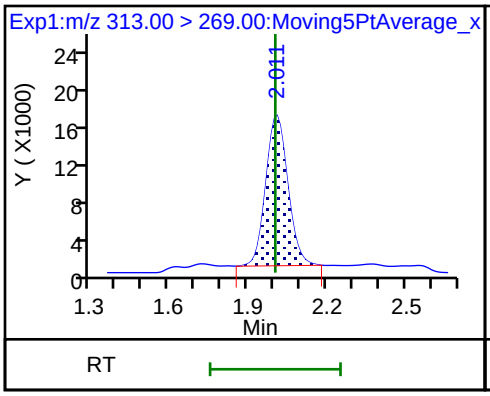
61 1H,1H,2H,2H-perfluorohexanesulfon



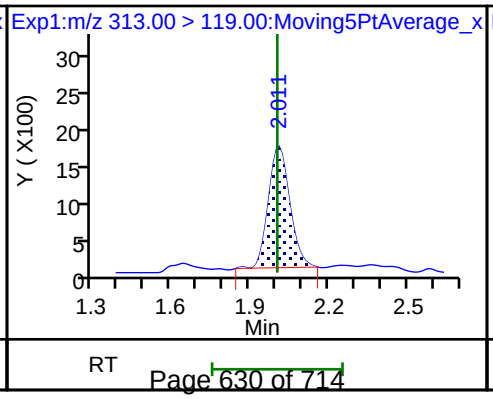
D 60 M2-4:2FTS



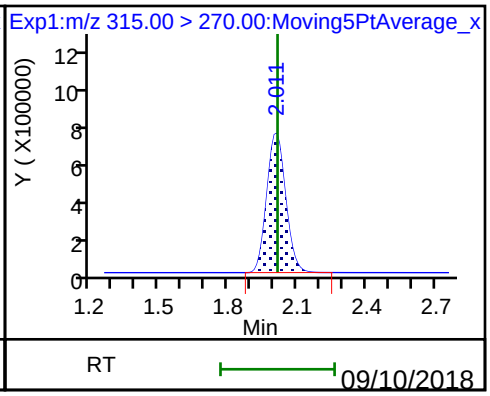
6 Perfluorohexanoic acid



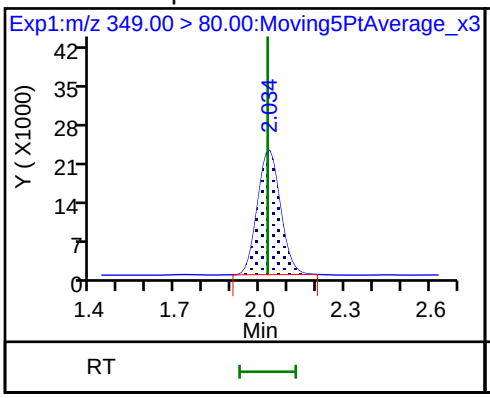
6 Perfluorohexanoic acid



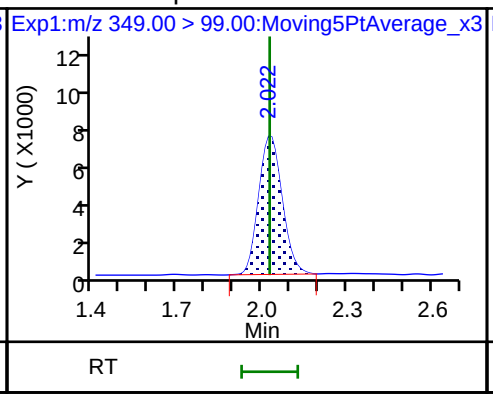
D 7 13C2 PFHxA



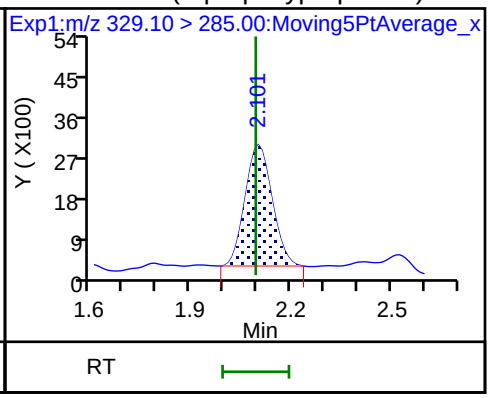
70 Perfluoropentanesulfonic acid



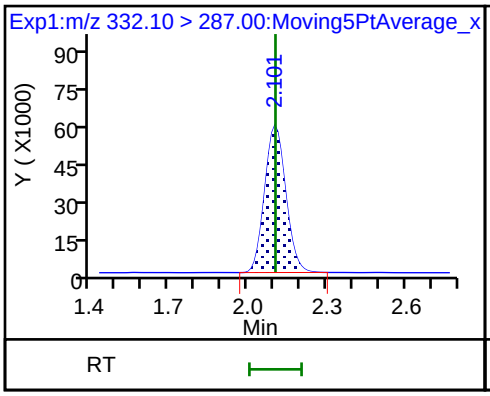
70 Perfluoropentanesulfonic acid



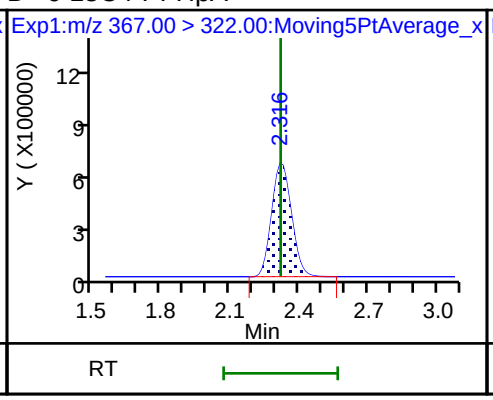
67 Perfluoro(2-propoxypropanoic) acid



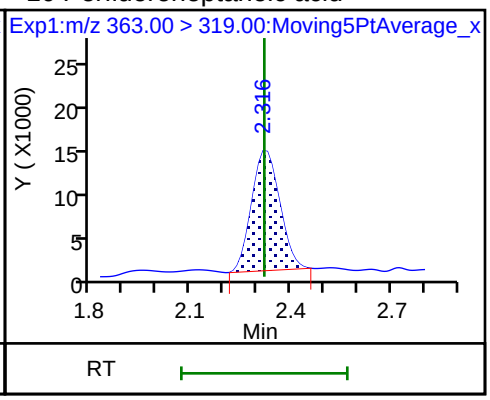
D 64 13C3 HFPO-DA



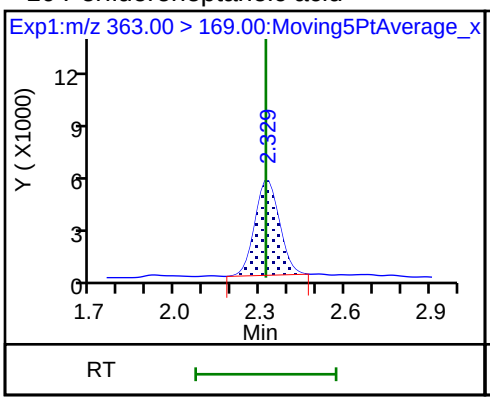
D 9 13C4-PFHpA



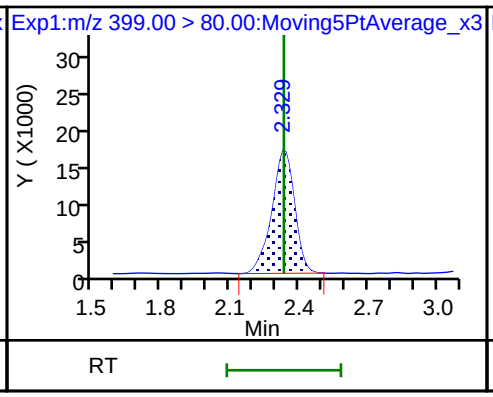
10 Perfluoroheptanoic acid



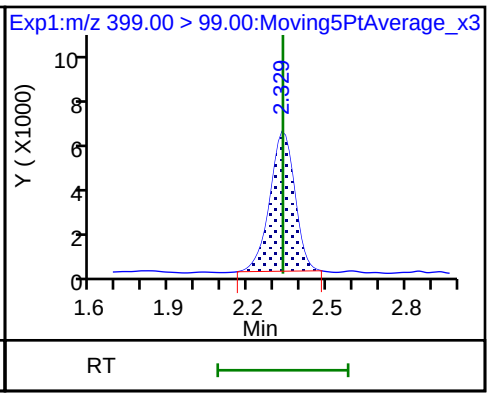
10 Perfluoroheptanoic acid



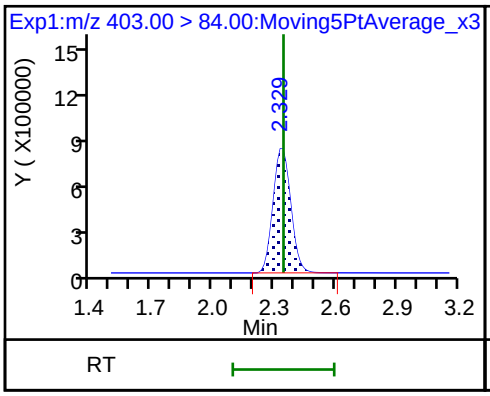
8 Perfluorohexanesulfonic acid



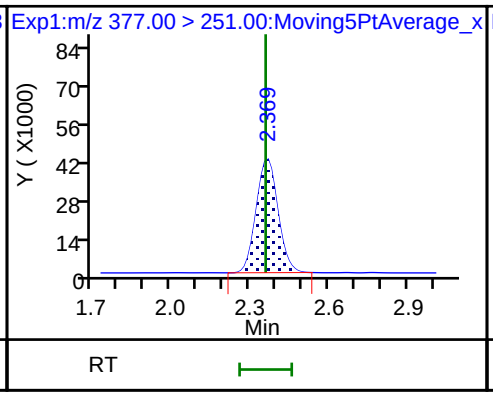
8 Perfluorohexanesulfonic acid



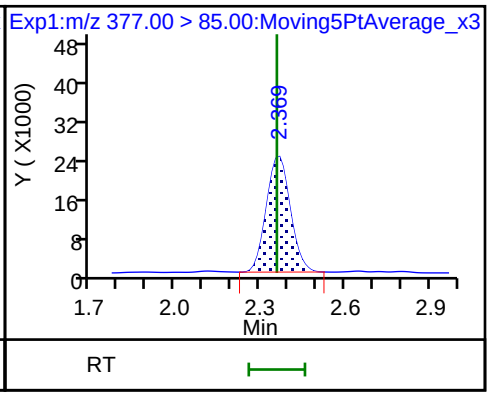
D 11 18O2 PFHxS



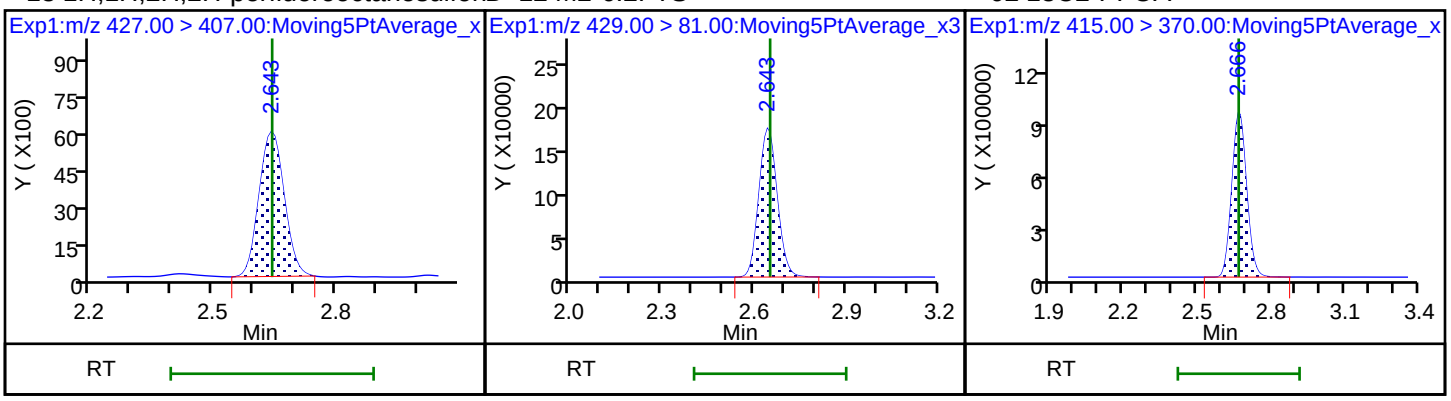
65 Adona



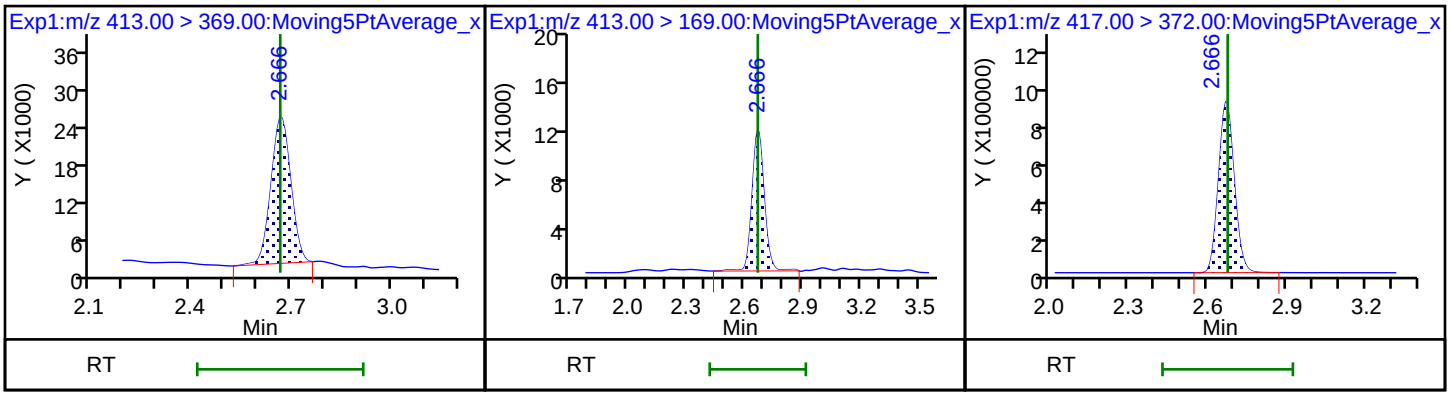
65 Adona



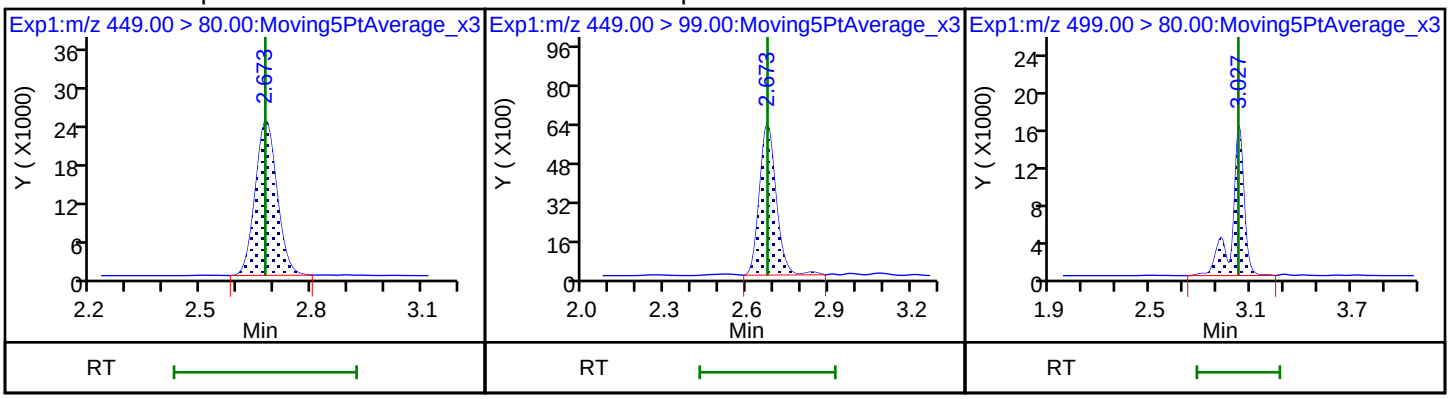
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



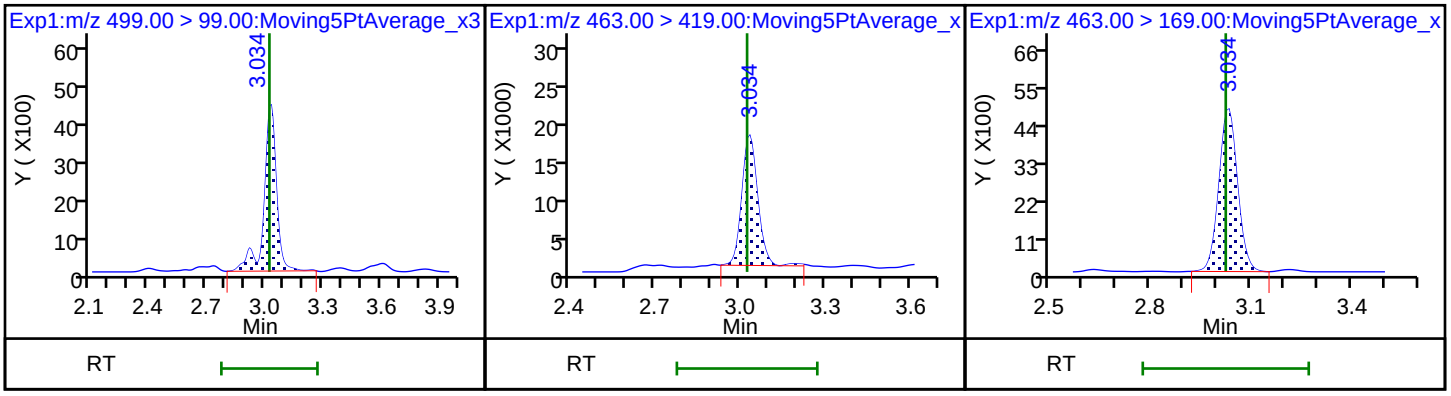
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



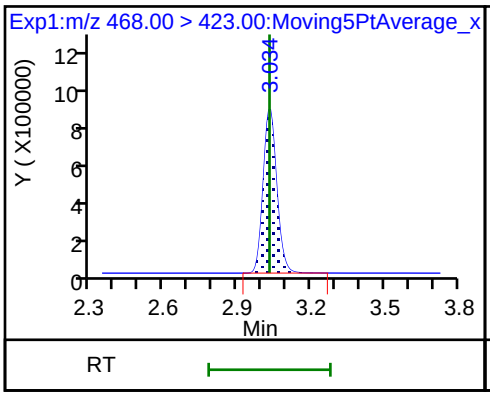
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



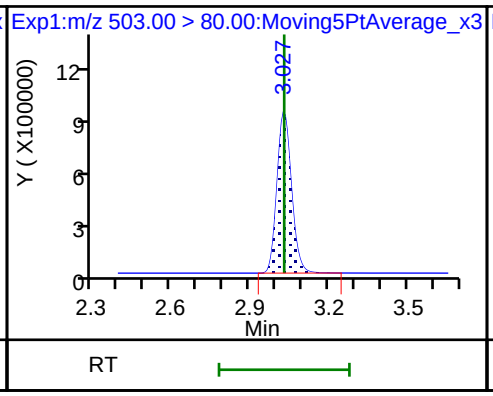
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



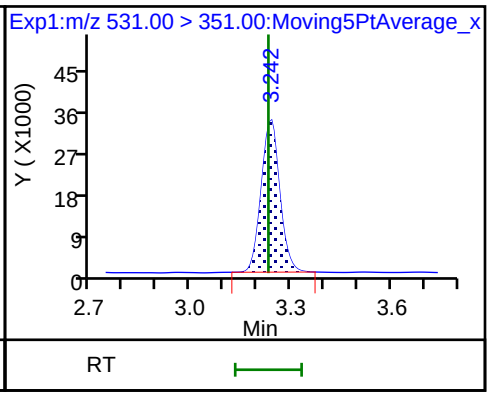
D 19 13C5 PFNA



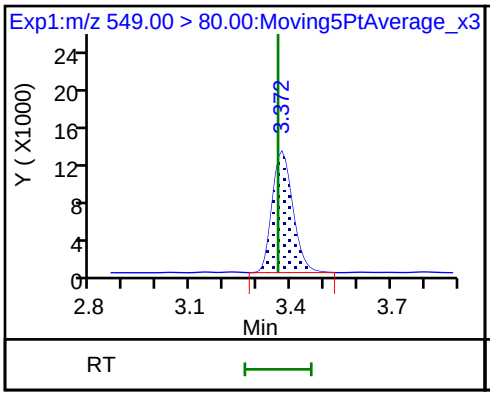
D 18 13C4 PFOS



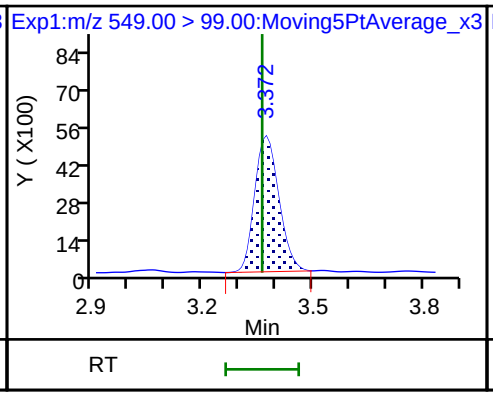
69 9-Chlorohexadecafluoro-3-oxanonane



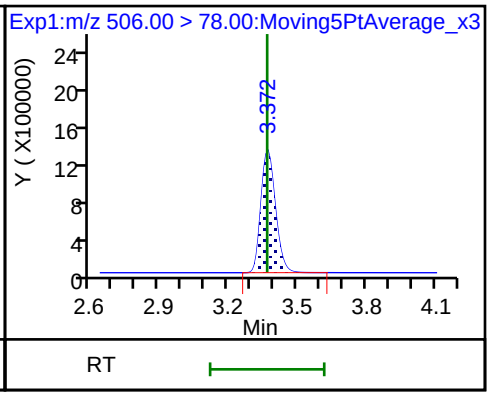
68 Perfluorononanesulfonic acid



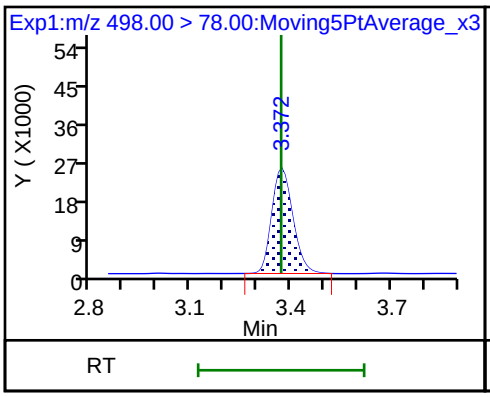
68 Perfluorononanesulfonic acid



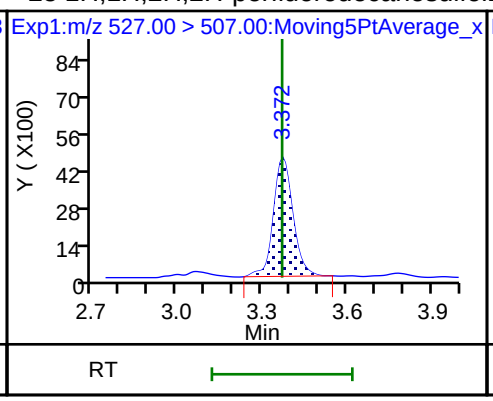
D 21 13C8 FOSA



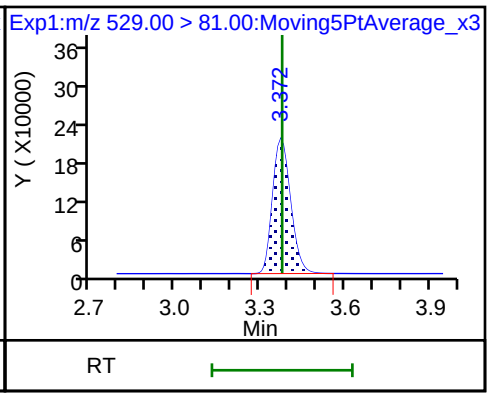
22 Perfluorooctane Sulfonamide



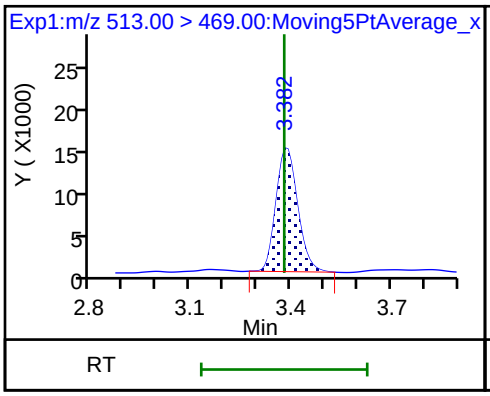
25 1H,1H,2H,2H-perfluorodecanesulfon



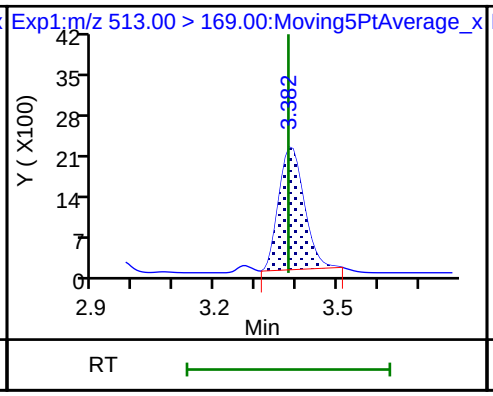
D 26 M2-8:2FTS



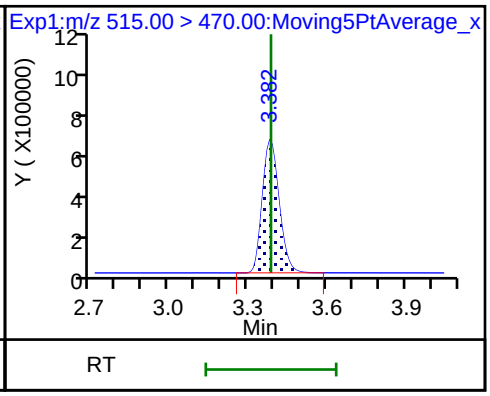
24 Perfluorodecanoic acid



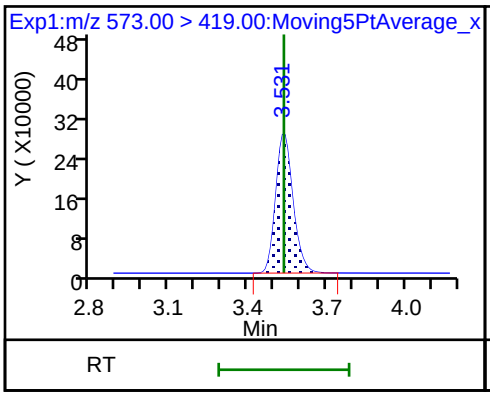
24 Perfluorodecanoic acid



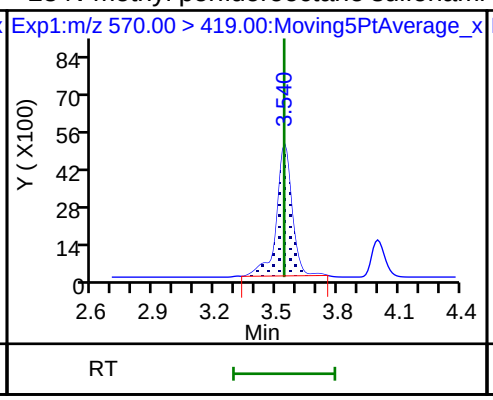
D 23 13C2 PFDA



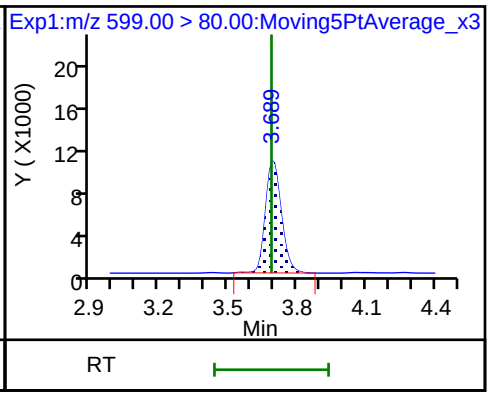
D 27 d3-NMeFOSAA



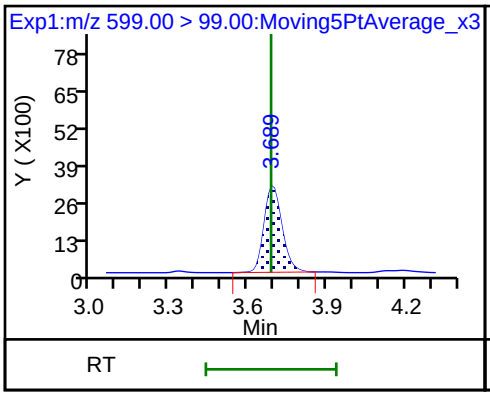
28 N-methyl perfluorooctane sulfonami



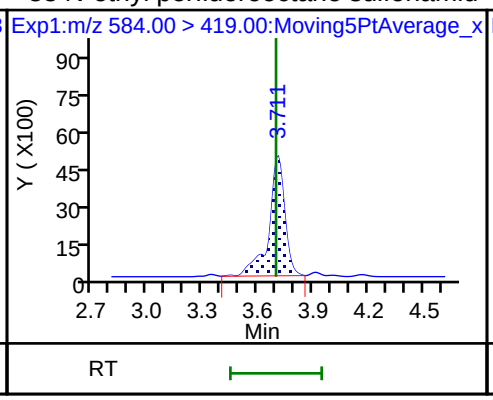
29 Perfluorodecane Sulfonic acid



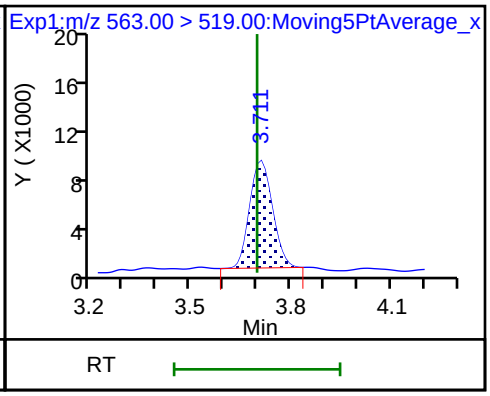
29 Perfluorodecane Sulfonic acid



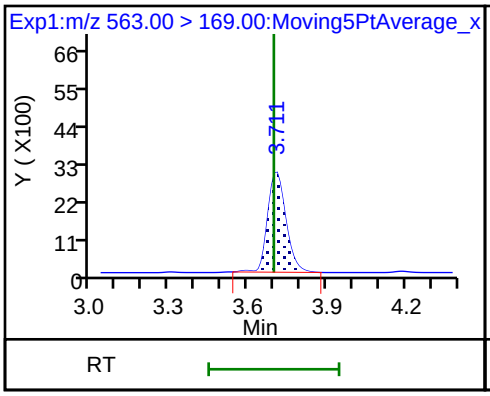
33 N-ethyl perfluorooctane sulfonamid



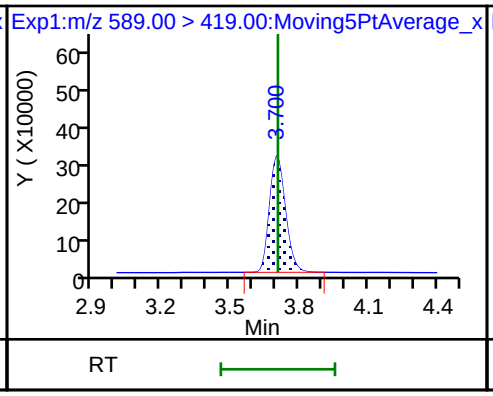
31 Perfluoroundecanoic acid



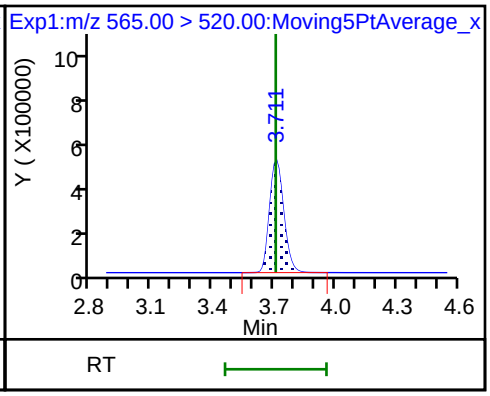
31 Perfluoroundecanoic acid



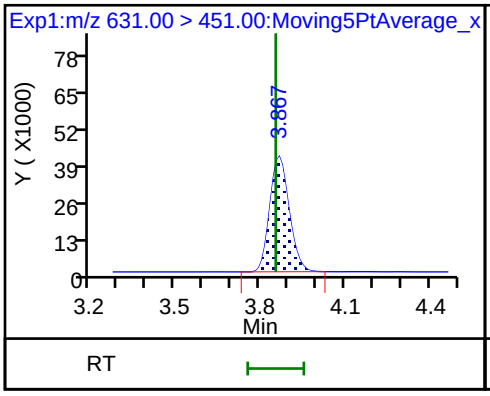
D 32 d5-NEtFOSAA



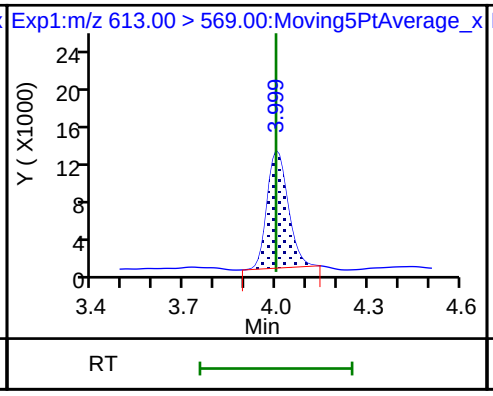
D 30 13C2 PFUnA



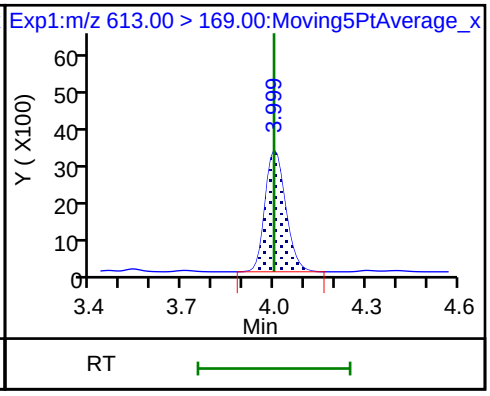
66 11-Chloroeicosafluoro-3-oxaundecan



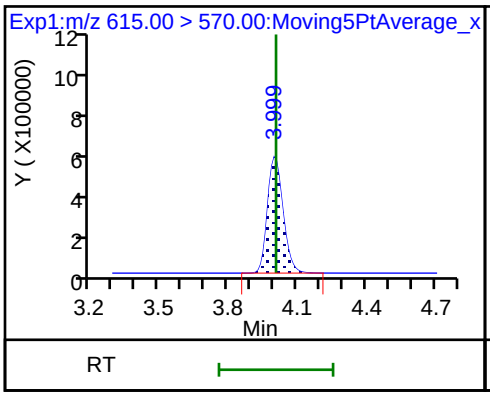
37 Perfluorododecanoic acid



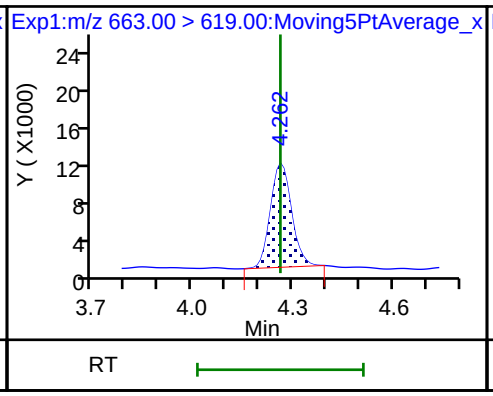
37 Perfluorododecanoic acid



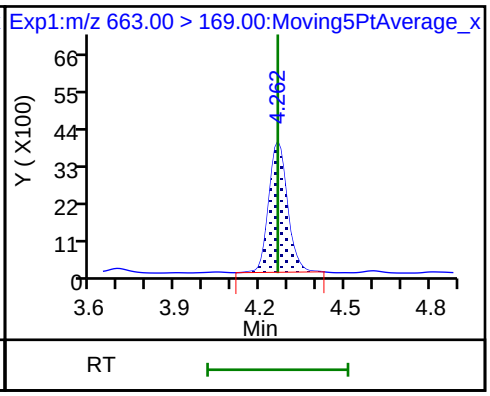
D 36 13C2 PFDoA



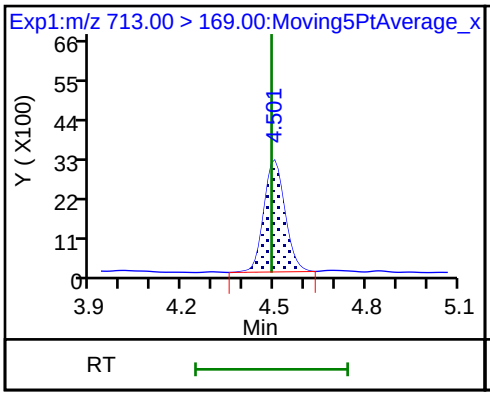
41 Perfluorotridecanoic acid



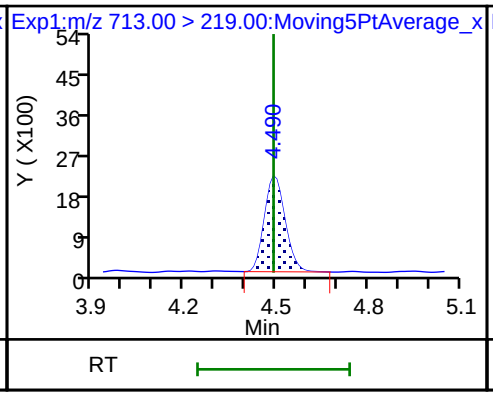
41 Perfluorotridecanoic acid



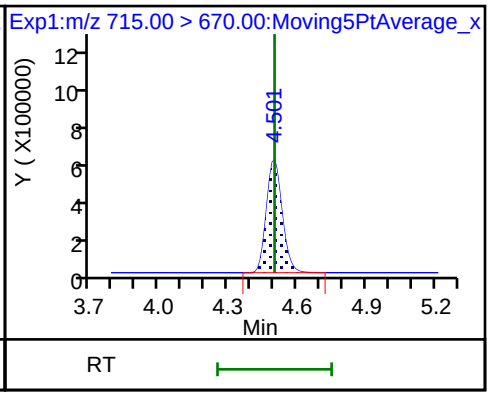
42 Perfluorotetradecanoic acid



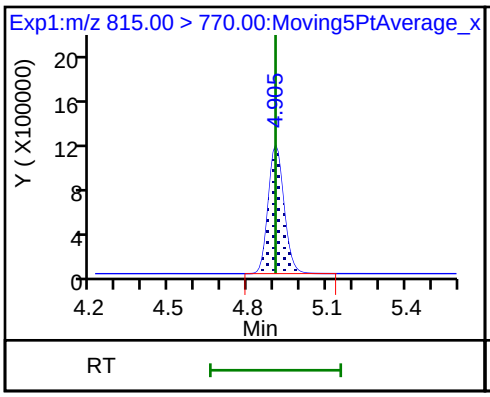
42 Perfluorotetradecanoic acid



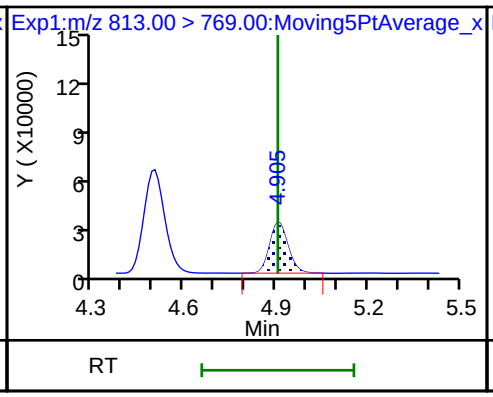
D 43 13C2-PFTeDA



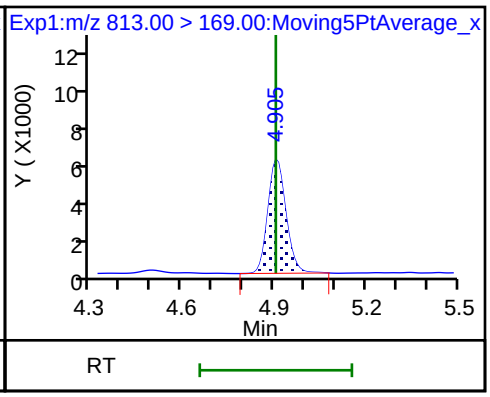
D 44 13C2-PFHxDA



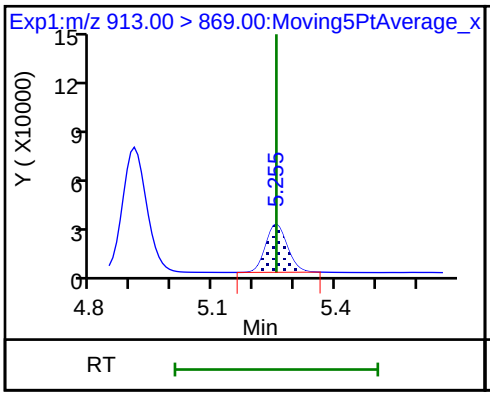
45 Perfluorohexadecanoic acid



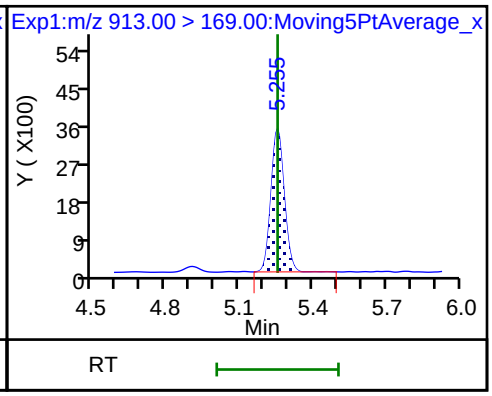
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

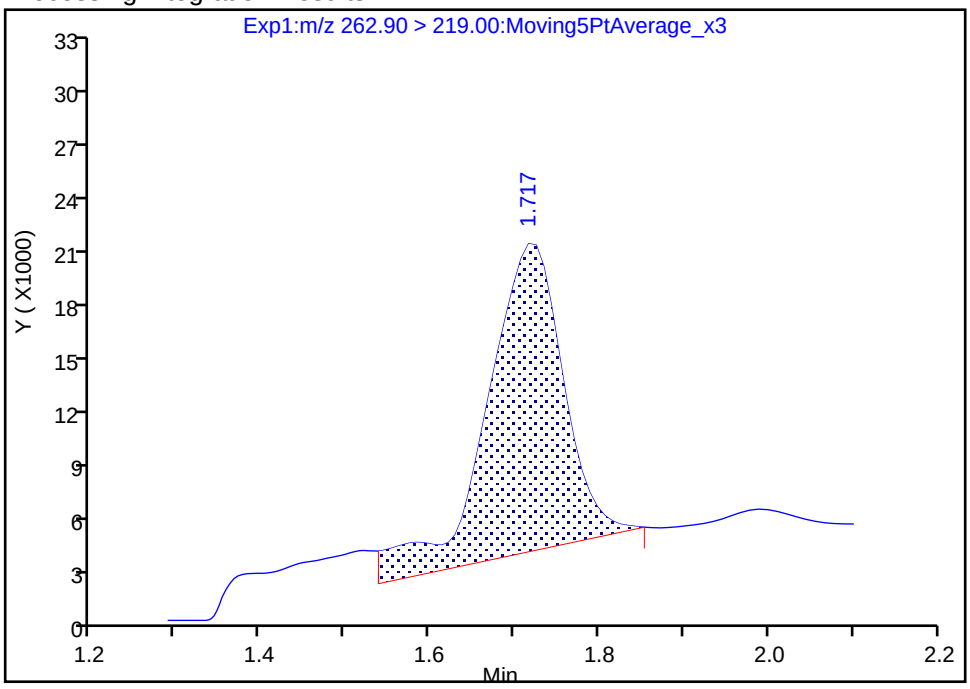
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_005.d
Injection Date: 13-Jul-2018 00:10:05 Instrument ID: A8_N
Lims ID: CCVL
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 21 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

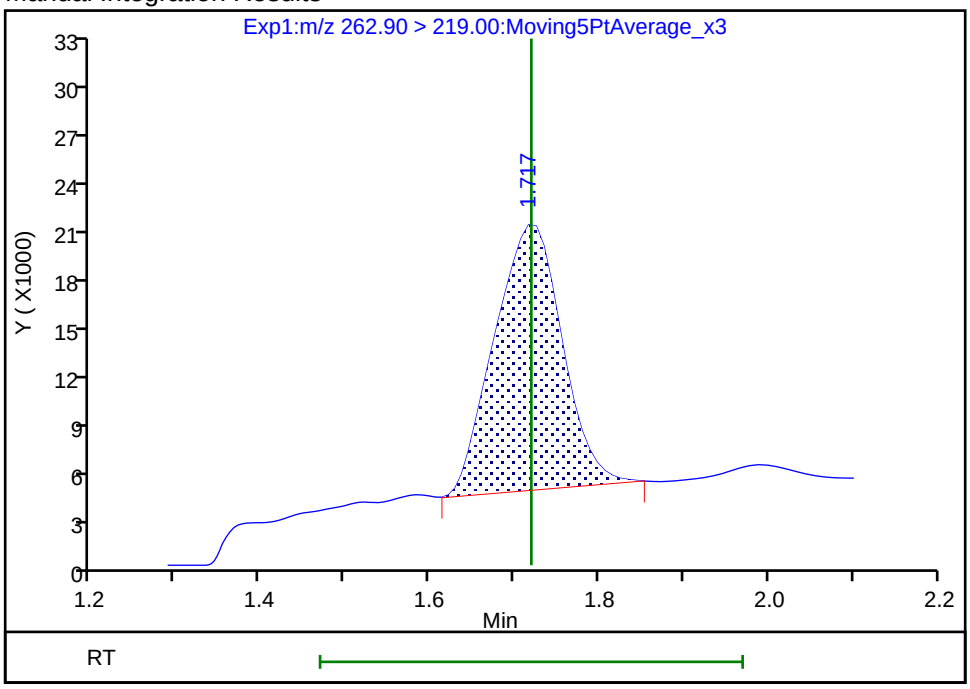
Processing Integration Results

RT: 1.72
Area: 107656
Amount: 0.061674
Amount Units: ng/ml



Manual Integration Results

RT: 1.72
Area: 90080
Amount: 0.051605
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:04:40
Audit Action: Manually Integrated Audit Reason: Baseline

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/3 Calibration Date: 07/13/2018 00:17

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_035.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	0.9847		0.999	1.00	-0.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.172		0.966	1.00	-3.4	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	77.20		0.892	0.884	0.9	50.0
4:2 FTS	AveID	13.00	12.17		0.874	0.934	-6.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	0.9894		0.961	1.00	-3.9	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	69.68		0.937	0.938	-0.1	50.0
HFPO-DA (GenX)	AveID	2.654	2.743		1.03	1.00	3.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.116		0.965	1.00	-3.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.108		0.878	0.910	-3.5	40.0
ADONA	AveID	3.219	3.677		1.08	0.942	14.2	50.0
6:2 FTS	AveID	1.564	1.703		1.03	0.948	8.9	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.157		0.941	1.00	-6.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.342		0.970	0.952	1.9	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.053		0.949	1.00	-5.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.125		0.922	0.928	-0.7	40.0
F-53B Major	AveID	1.836	1.892		0.961	0.932	3.1	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.7904		0.979	0.960	2.0	50.0
8:2 FTS	AveID	1.290	1.275		0.947	0.958	-1.2	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	0.9937		1.01	1.00	0.8	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	0.9845		0.938	1.00	-6.2	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	0.997		1.01	1.00	1.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.6915		0.993	0.964	3.0	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9016		1.02	1.00	2.0	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7538		0.920	1.00	-8.0	40.0
F-53B Minor	AveID	2.654	2.842		1.01	0.942	7.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.105		1.01	1.00	1.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.031		0.965	1.00	-3.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2519		0.968	1.00	-3.2	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9737		1.00	1.00	0.3	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.135		0.993	1.00	-0.7	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/3 Calibration Date: 07/13/2018 00:17

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_035.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.356	1.356		2.50	2.50	0.0	50.0
13C5 PFPeA	Ave	0.9425	0.9601		2.55	2.50	1.9	50.0
13C3-PFBS	Ave	0.0237	0.0244		2.39	2.33	3.0	50.0
M2-4:2FTS	Ave	0.1273	0.1233		2.26	2.34	-3.1	50.0
13C2 PFHxA	Ave	1.017	1.124		2.76	2.50	10.5	50.0
13C3 HFPO-DA	Ave	0.0724	0.0772		2.67	2.50	6.7	50.0
13C4-PFHpA	Ave	0.9371	1.024		2.73	2.50	9.3	50.0
18O2 PFHxS	Ave	1.328	1.366		2.43	2.37	2.9	50.0
M2-6:2FTS	Ave	0.2009	0.1939		2.29	2.38	-3.5	40.0
13C4 PFOA	Ave	0.9560	0.9774		2.56	2.50	2.2	50.0
13C4 PFOS	Ave	0.9742	0.9830		2.41	2.39	0.9	50.0
13C5 PFNA	Ave	0.8546	0.8415		2.46	2.50	-1.5	50.0
13C8 FOSA	Ave	1.405	1.496		2.66	2.50	6.5	50.0
M2-8:2FTS	Ave	0.2939	0.2586		2.11	2.40	-12.0	40.0
13C2 PFDA	Ave	0.7503	0.7690		2.56	2.50	2.5	50.0
d3-NMeFOSAA	Ave	0.3075	0.3409		2.77	2.50	10.9	50.0
13C2 PFUnA	Ave	0.6266	0.6690		2.67	2.50	6.8	50.0
d5-NEtFOSAA	Ave	0.3150	0.3660		2.90	2.50	16.2	50.0
13C2 PFDoA	Ave	0.6496	0.6944		2.67	2.50	6.9	50.0
13C2-PFTeDA	Ave	0.6740	0.7558		2.80	2.50	12.1	50.0
13C2-PFHxDA	Ave	1.074	1.208		2.81	2.50	12.5	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d
Lims ID: CCV L4
Client ID:
Sample Type: CCVIS
Inject. Date: 13-Jul-2018 00:17:55 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L4
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:05:35 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:05:35

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.424	1.424	0.0	1.000	1923012	1.00		99.9	1105	
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.429	-0.005	0.534	4882194	2.50		100	25971	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.720	1.719	0.001	0.645	3455682	2.55		102	44432	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.720	1.720	0.0	1.000	1620180	0.9662		96.6	720	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.764	-0.008	0.658	81634	2.39		103	563	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.765	1.765	0.0	1.005	2396059	0.8921		101	21349	
298.90 > 99.00	1.756	1.765	-0.009	1.000	998880		2.40(1.25-3.74)		16126	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.970	1.970	0.0	1.122	398948	0.8741		93.6	23136	
D 60 M2-4:2FTS										
329.00 > 81.00	1.970	1.980	-0.010	0.738	414563	2.26		96.9	6057	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	2.003	0.0	1.000	1601310	0.9612		96.1	4952	
313.00 > 119.00	2.003	2.003	0.0	1.000	148281		10.80(5.03-15.10)		2912	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	2.014	-0.011	0.751	4046227	2.76		111	70788	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.026	2.026	0.0	1.154	2294846	0.9366		99.9	50099	
349.00 > 99.00	2.026	2.026	0.0	1.154	849799		2.70(1.36-4.07)		21061	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.094	2.094	0.0	1.000	304992	1.03		103	2684	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.094	2.104	-0.010	0.785	277946	2.67		107	6879	
D 9 13C4-PFHpA										
367.00 > 322.00	2.320	2.319	0.001	0.870	3687191	2.73		109	56097	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.320	2.320	0.0	1.000	1645456	0.9646		96.5	3081	
363.00 > 169.00	2.320	2.320	0.0	1.000	629046		2.62(1.13-3.40)		8019	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.333	2.333	0.0	1.000	1982551	0.8781		96.5	16018	
399.00 > 99.00	2.333	2.333	0.0	1.000	642048		3.09(1.50-4.49)		4887	
D 11 18O2 PFHxS										
403.00 > 84.00	2.333	2.345	-0.012	0.874	4651842	2.43		103	33838	
65 Adona										
377.00 > 251.00	2.359	2.359	0.0	0.780	4901781	1.08		114	49661	
377.00 > 85.00	2.359	2.359	0.0	0.780	2820161		1.74(0.84-2.53)		17970	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.644	2.644	0.0	1.003	450731	1.03		109	10646	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.652	-0.016	0.988	663092	2.29		96.5	19352	
* 62 13C2-PFOA										
415.00 > 370.00	2.668	2.668	0.0		3599316	2.50			32990	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.668	2.668	0.0	1.000	1629940	0.9406		94.0	995	
413.00 > 169.00	2.668	2.668	0.0	1.000	856264		1.90(0.84-2.52)		5241	
D 14 13C4 PFOA										
417.00 > 372.00	2.668	2.674	-0.006	1.000	3517852	2.56		102	38256	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.675	2.675	0.0	0.885	1808393	0.9698		102	21800	
449.00 > 99.00	2.675	2.675	0.0	0.885	490624		3.69(1.94-5.82)		11633	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.024	3.024	0.0	1.000	1478011	0.9216		99.3	17489	
499.00 > 99.00	3.024	3.024	0.0	1.000	324566		4.55(2.31-6.93)		4410	
20 Perfluorononanoic acid										
463.00 > 419.00	3.024	3.024	0.0	1.000	1276057	0.9495		94.9	3037	
463.00 > 169.00	3.024	3.024	0.0	1.000	315612		4.04(1.90-5.69)		16613	
D 19 13C5 PFNA										
468.00 > 423.00	3.024	3.030	-0.006	1.134	3028758	2.46		98.5	33229	
D 18 13C4 PFOS										
503.00 > 80.00	3.024	3.030	-0.006	1.134	3382429	2.41		101	23017	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.232	3.232	0.0	1.069	2495654	0.9606		103	22006	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.361	0.0	1.111	1073837	0.9788		102	19082	
549.00 > 99.00	3.361	3.361	0.0	1.111	416644		2.58(1.33-3.97)		6795	
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.368	-0.007	1.260	5383105	2.66		106	45206	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.370	0.0	1.003	2139685	1.01		101	30077	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.370	0.0	1.000	454673	0.9468		98.8	10177	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.378	-0.008	1.263	891569	2.11		88.0	14305	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.380	0.0	1.000	1090011	0.9382		93.8	6826	
513.00 > 169.00	3.380	3.380	0.0	1.000	198004		5.50(2.36-7.09)		8912	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.387	-0.007	1.267	2767864	2.56		102	28515	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.536	-0.007	1.323	1227159	2.77		111	24519	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.538	0.0	1.003	489189	1.01		101	3536	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.687	0.0	1.219	943459	0.99		103	16638	
599.00 > 99.00	3.687	3.687	0.0	1.219	321507		2.93(1.39-4.16)		11268	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.698	0.0	1.000	475037	1.02		102	10125	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.698	0.0	1.000	726073	0.9199		92.0	4982	
563.00 > 169.00	3.708	3.698	0.010	1.003	195852		3.71(2.12-6.36)		13372	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.707	-0.009	1.386	1317210	2.90		116	3120	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.707	-0.009	1.386	2408043	2.67		107	29260	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.855	0.0	1.275	3788227	1.01		107	52570	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.999	3.999	0.0	1.000	1104695	1.01		101	761	
613.00 > 169.00	3.999	3.999	0.0	1.000	270040		4.09(2.13-6.40)		7123	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.499	2499361	2.67		107	20199	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	1030302	0.9652		96.5	520	
663.00 > 169.00	4.252	4.262	-0.010	1.063	341065		3.02(1.25-3.76)		6303	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.491	4.491	0.0	1.000	274096	0.9682		96.8	3596	
713.00 > 219.00	4.491	4.491	0.0	1.000	195920		1.40(0.71-2.13)		4602	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.501	-0.010	1.683	2720222	2.80		112	14142	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.839	4348983	2.81		113	12312	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	1693848	1.00		100	420	
813.00 > 169.00	4.905	4.905	0.0	1.000	271636		6.24(2.86-8.58)		2720	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	1974411	0.99		99.3	382	
913.00 > 169.00	5.248	5.255	-0.007	1.070	248628		7.94(3.83-11.48)		3534	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

LCPFC_LL4_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:05:37 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d

Injection Date: 13-Jul-2018 00:17:55 Instrument ID: A8_N

Lims ID: CCV L4

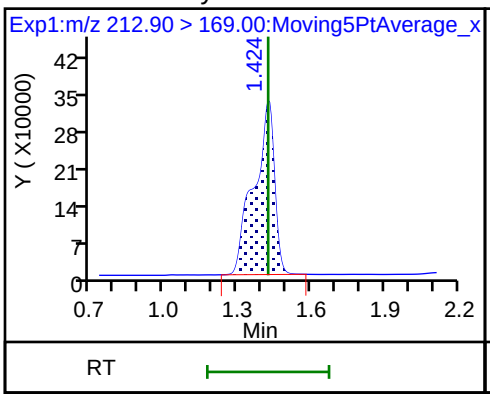
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3

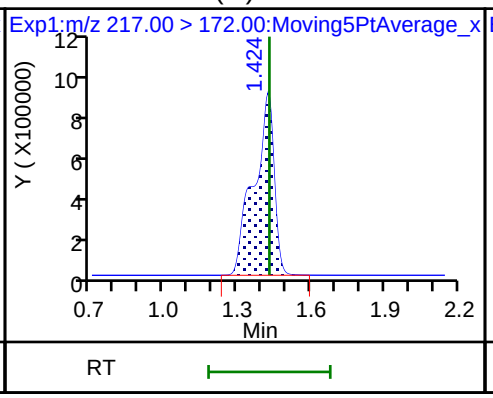
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

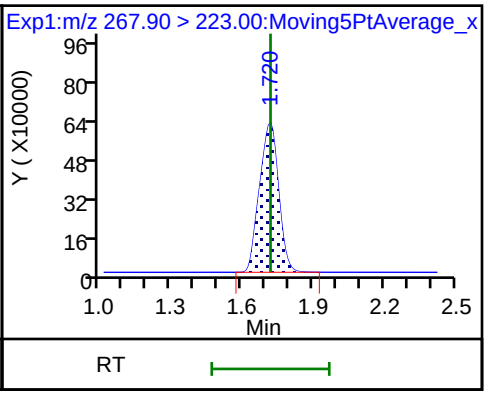
2 Perfluorobutyric acid



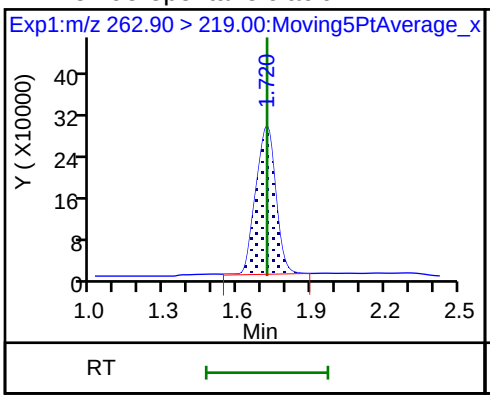
D 1 13C4 PFBA (M)



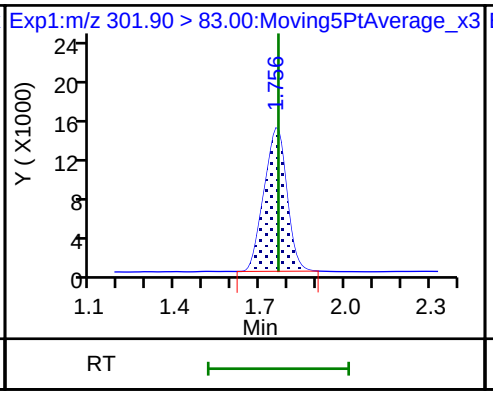
D 3 13C5-PFPeA



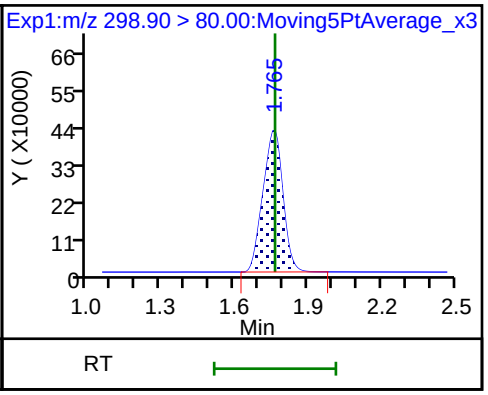
4 Perfluoropentanoic acid



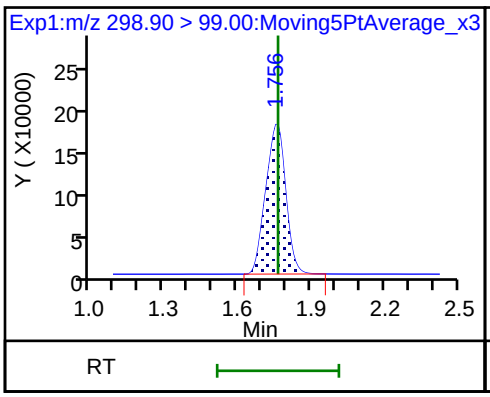
D 47 13C3-PFBS



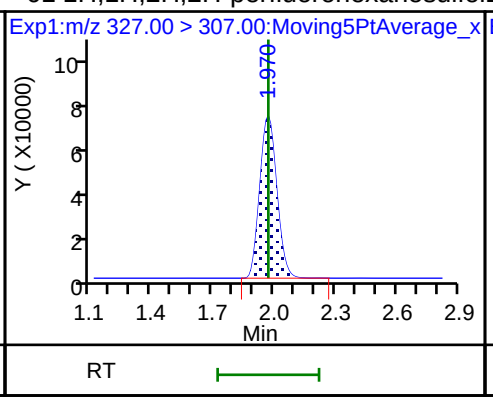
5 Perfluorobutanesulfonic acid



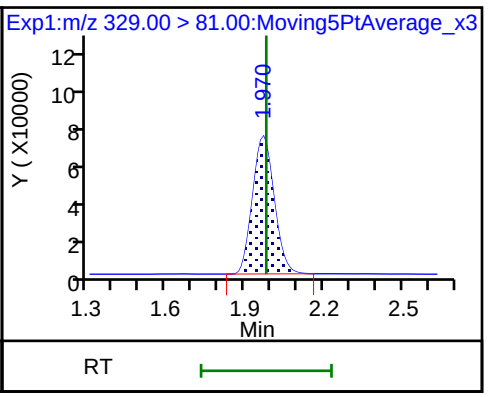
5 Perfluorobutanesulfonic acid



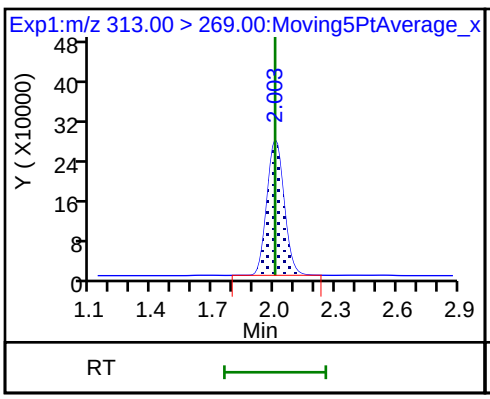
61 1H,1H,2H,2H-perfluorohexanesulfon



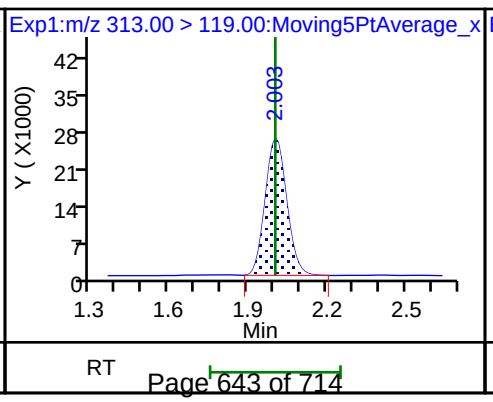
D 60 M2-4:2FTS



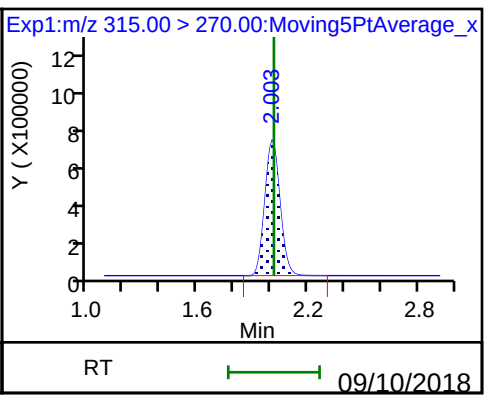
6 Perfluorohexanoic acid



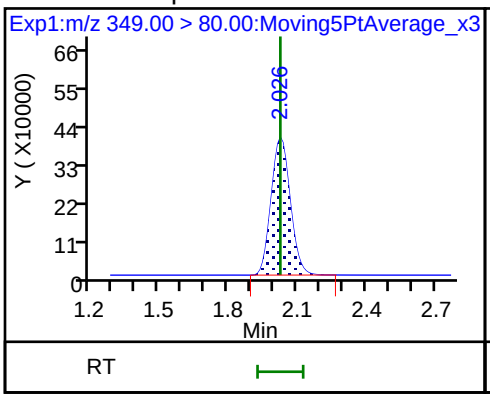
6 Perfluorohexanoic acid



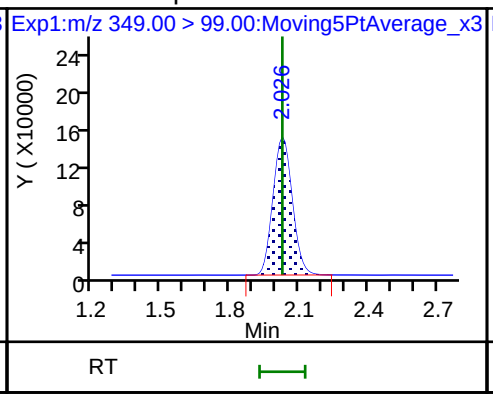
D 7 13C2 PFHxA



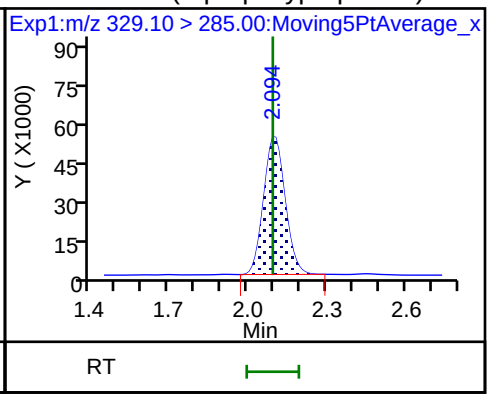
70 Perfluoropentanesulfonic acid



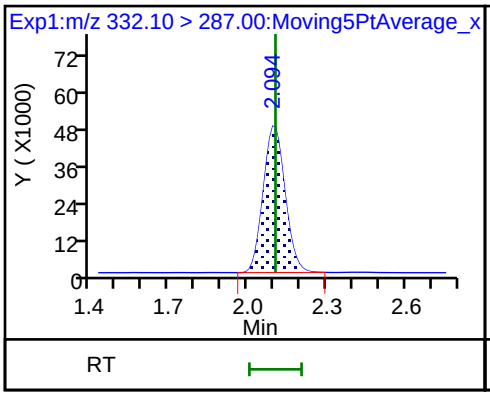
70 Perfluoropentanesulfonic acid



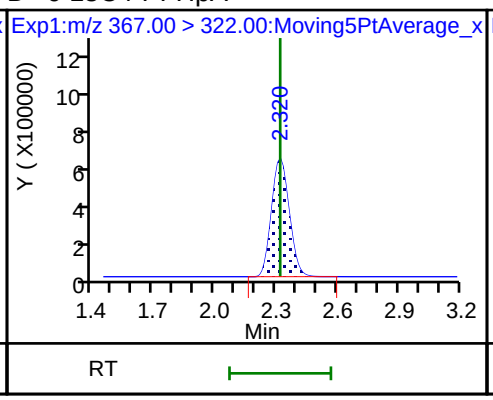
67 Perfluoro(2-propoxypropanoic) acid



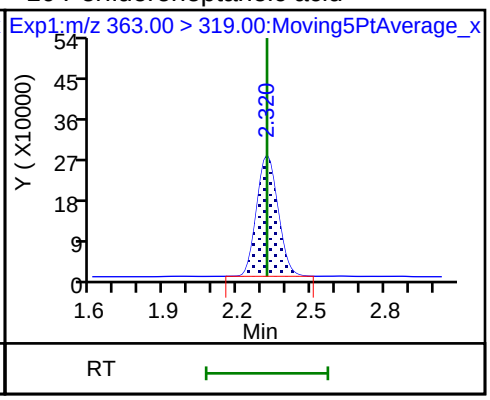
D 64 13C3 HFPO-DA



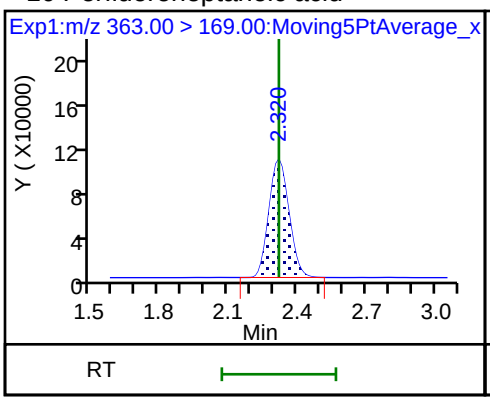
D 9 13C4-PFHpA



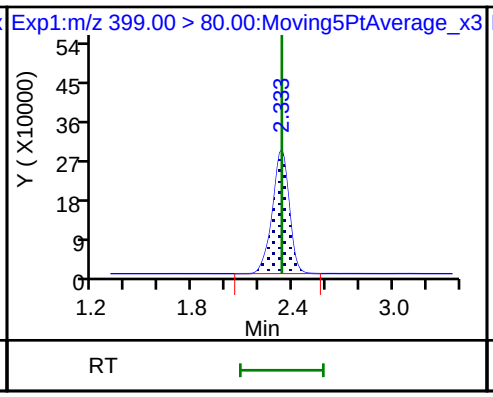
10 Perfluoroheptanoic acid



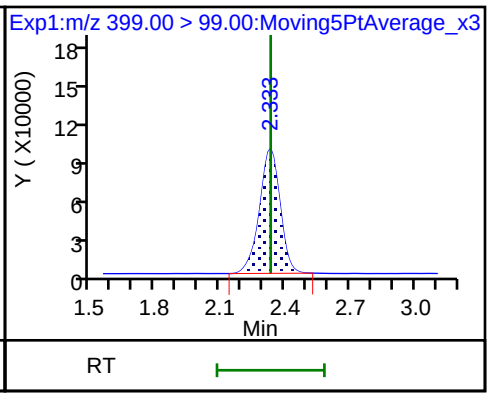
10 Perfluoroheptanoic acid



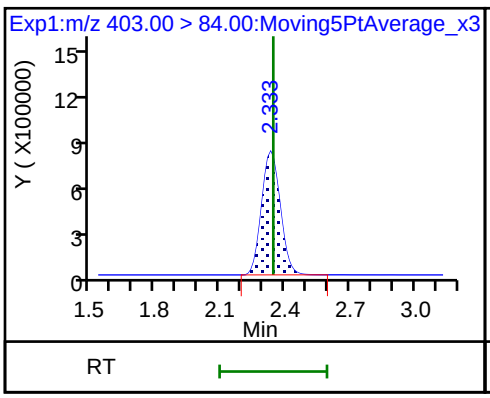
8 Perfluorohexanesulfonic acid



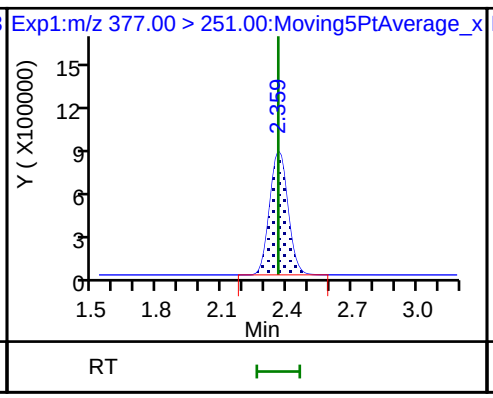
8 Perfluorohexanesulfonic acid



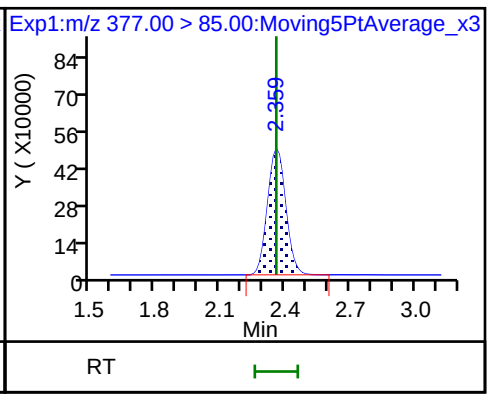
D 11 18O2 PFHxS



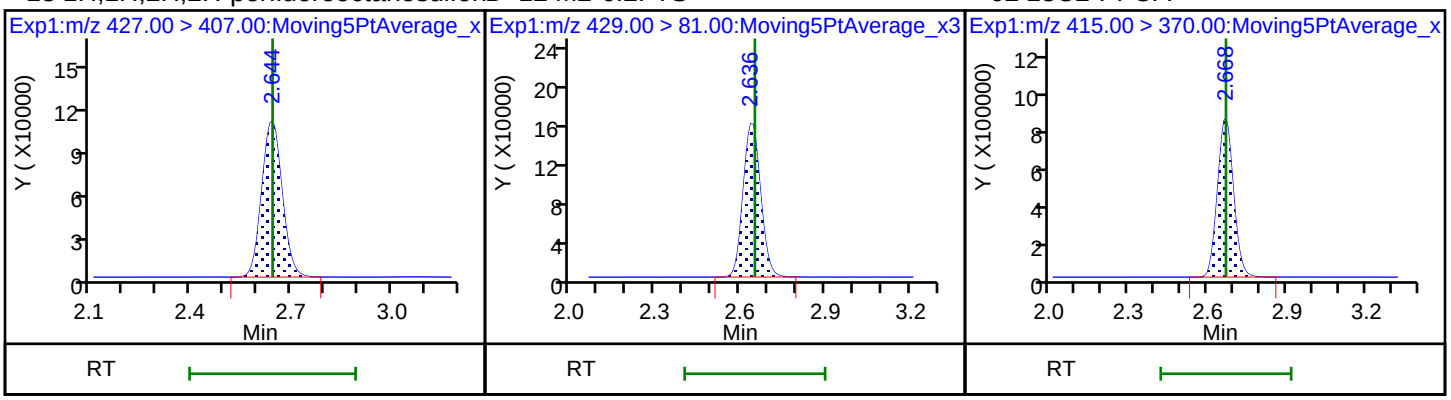
65 Adona



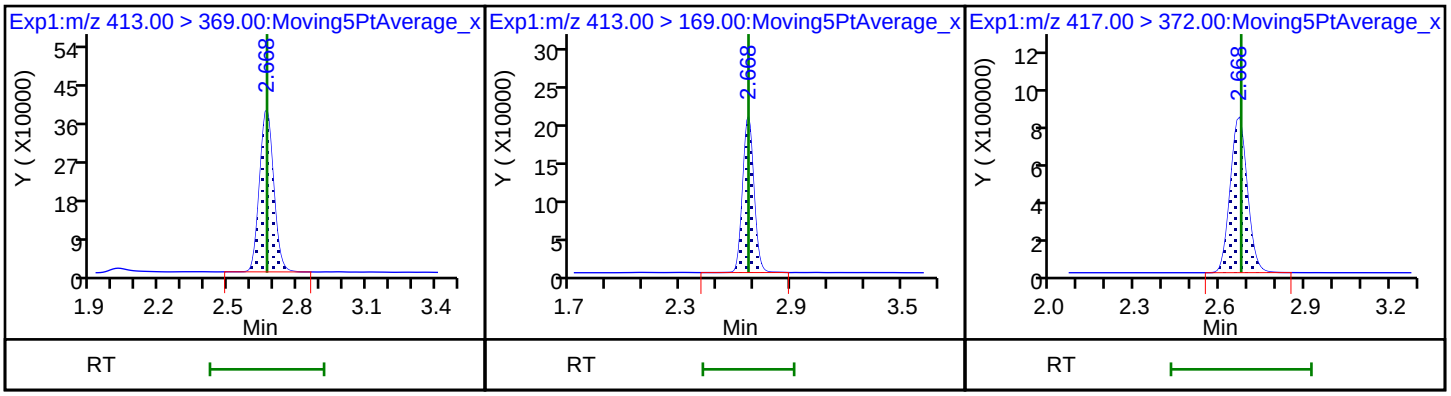
65 Adona



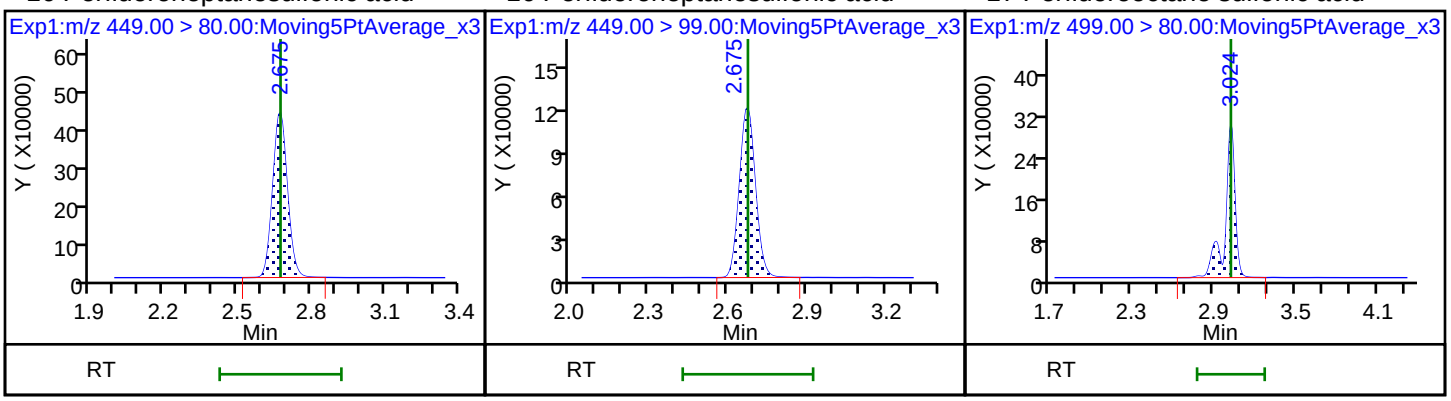
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



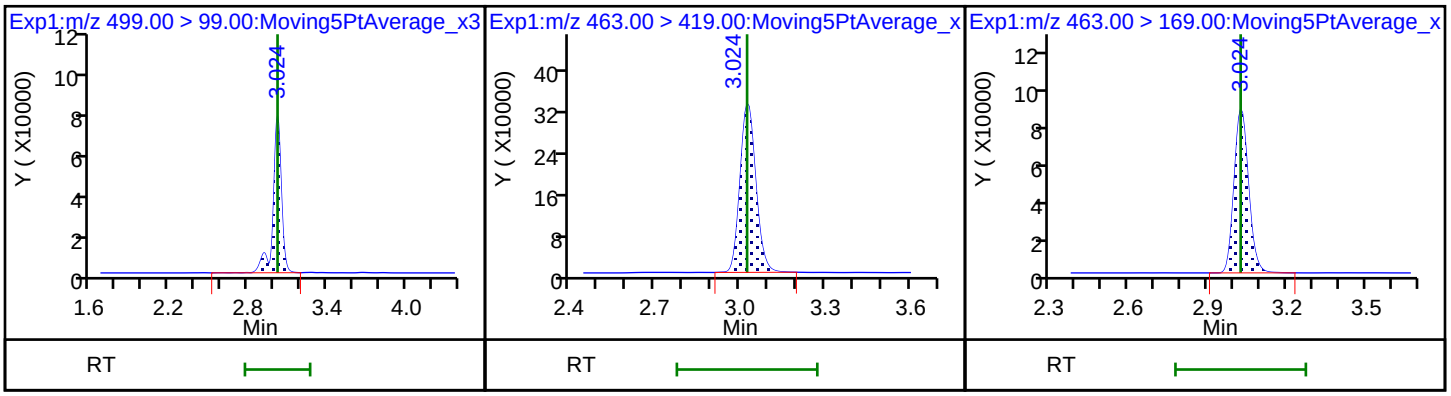
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



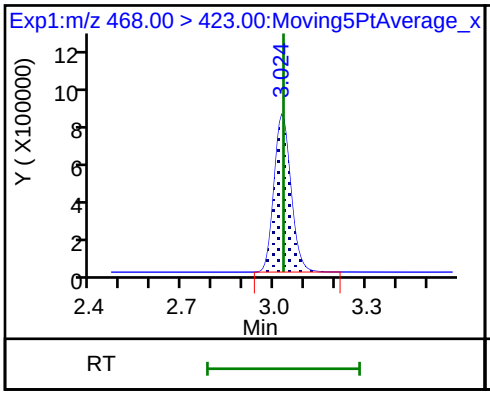
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



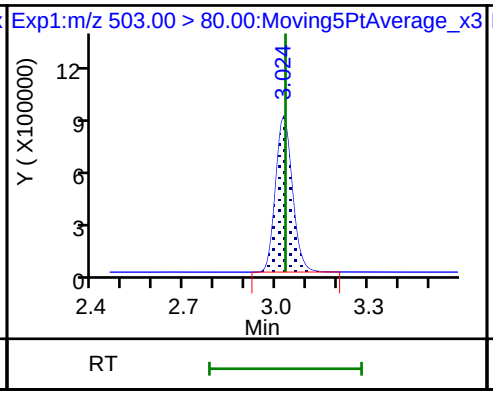
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



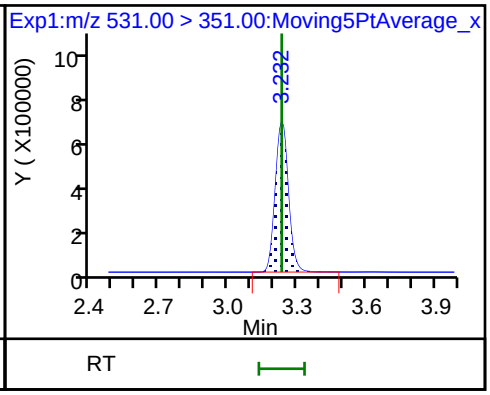
D 19 13C5 PFNA



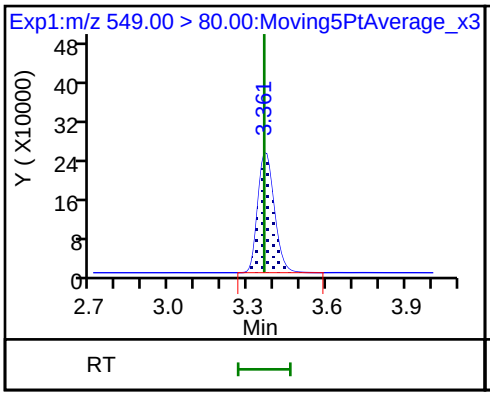
D 18 13C4 PFOS



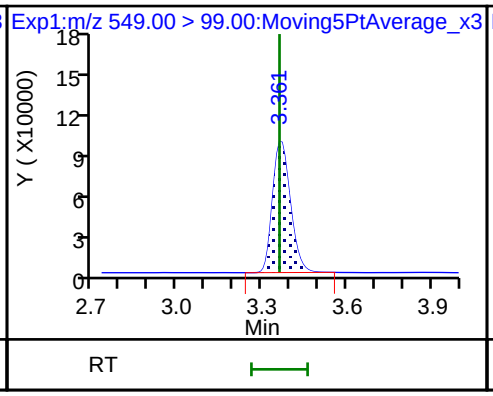
69 9-Chlorohexadecafluoro-3-oxanonane



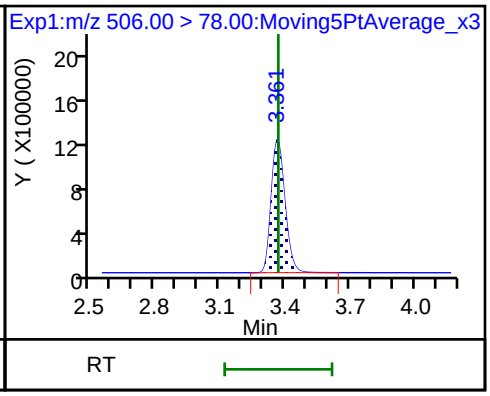
68 Perfluorononanesulfonic acid



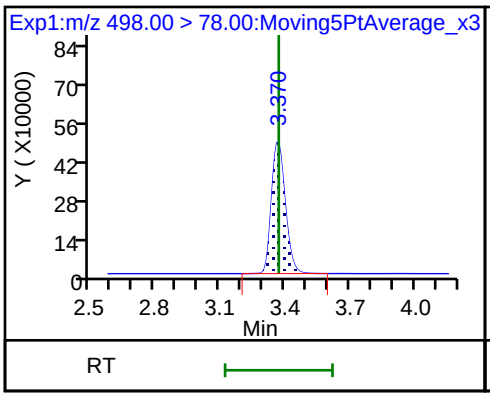
68 Perfluorononanesulfonic acid



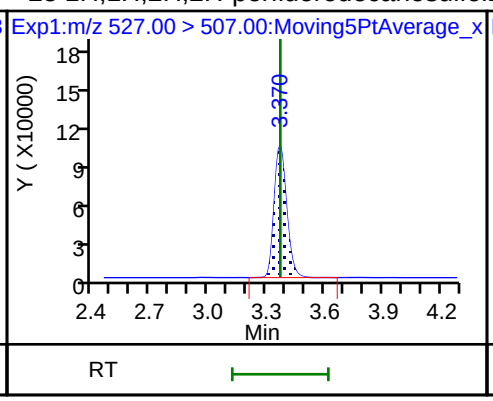
D 21 13C8 FOSA



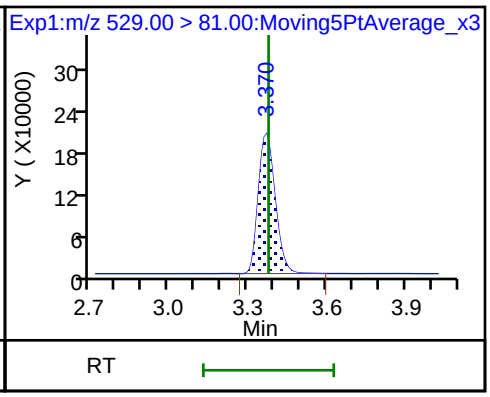
22 Perfluorooctane Sulfonamide



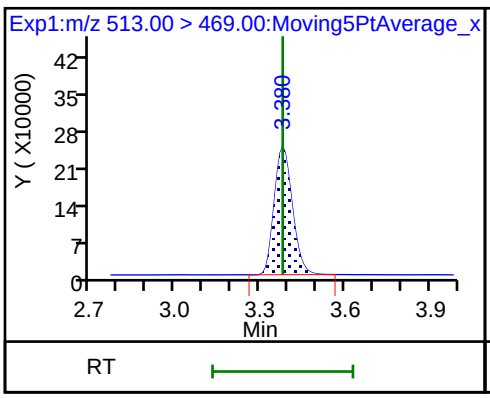
25 1H,1H,2H,2H-perfluorodecanesulfon



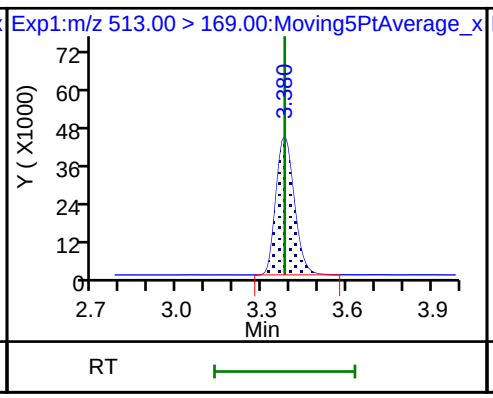
D 26 M2-8:2FTS



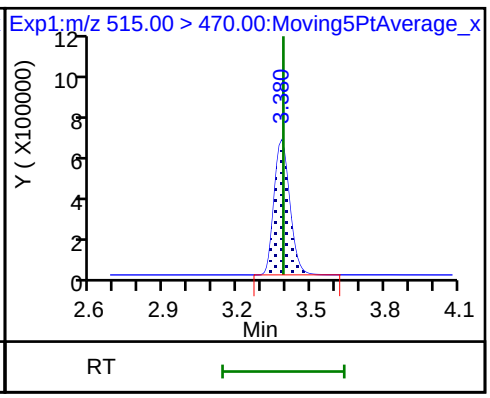
24 Perfluorodecanoic acid



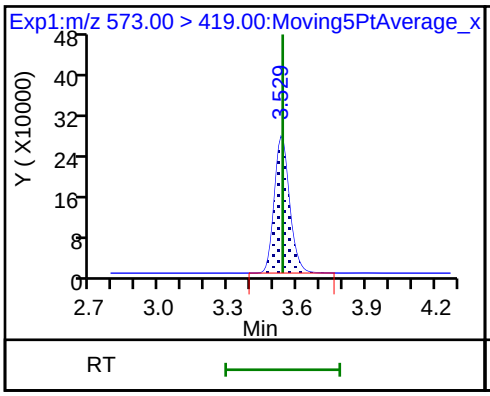
24 Perfluorodecanoic acid



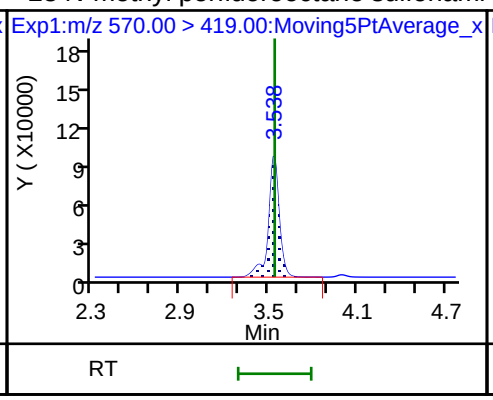
D 23 13C2 PFDA



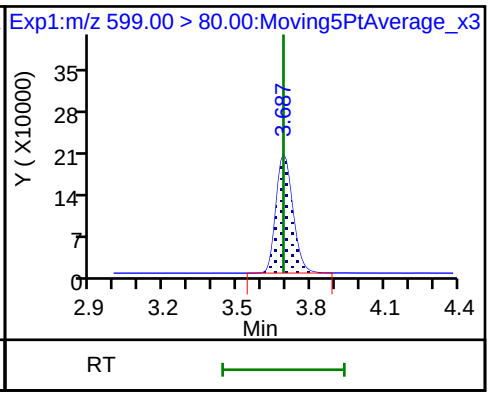
D 27 d3-NMeFOSAA



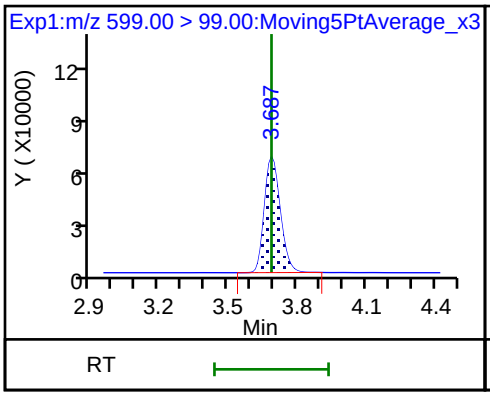
28 N-methyl perfluorooctane sulfonami



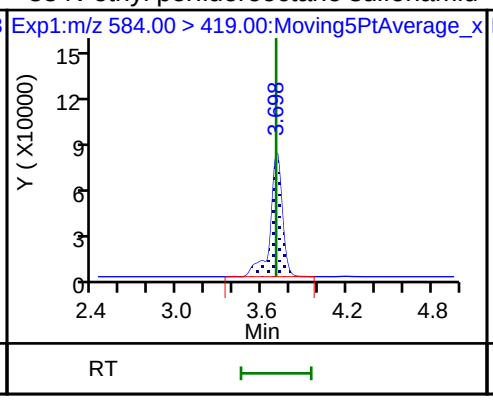
29 Perfluorodecane Sulfonic acid



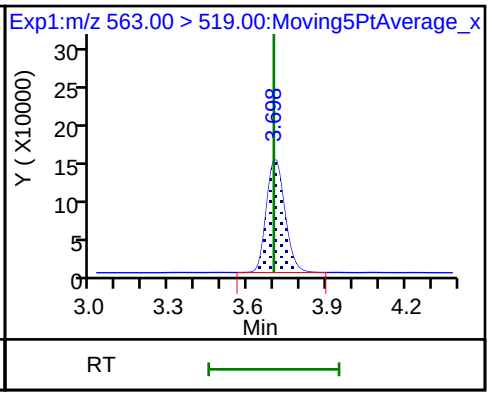
29 Perfluorodecane Sulfonic acid



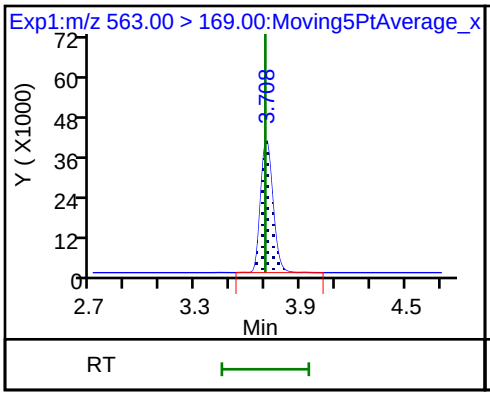
33 N-ethyl perfluorooctane sulfonamid



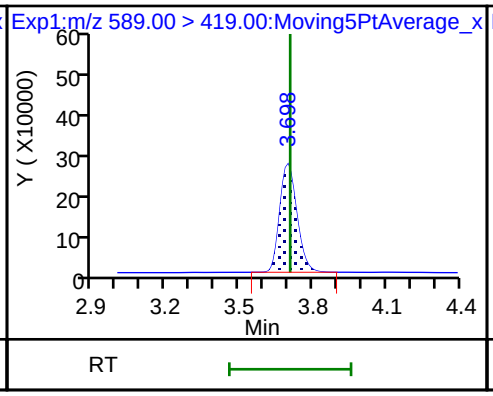
31 Perfluoroundecanoic acid



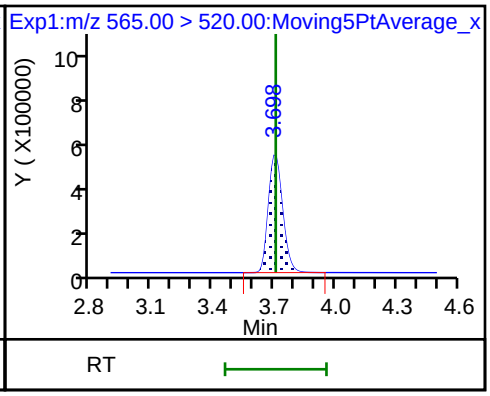
31 Perfluoroundecanoic acid



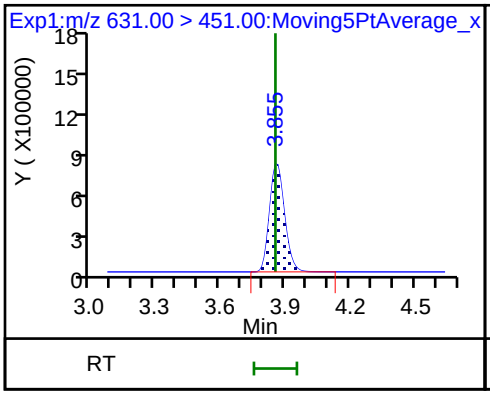
D 32 d5-NEtFOSAA



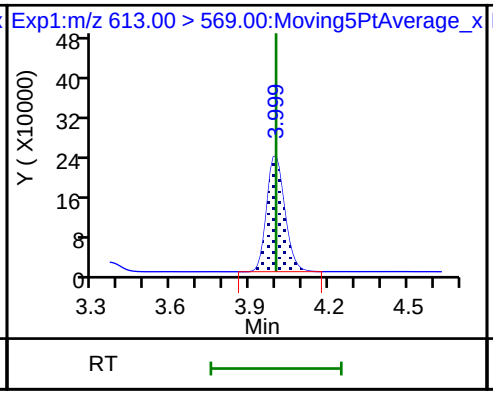
D 30 13C2 PFUnA



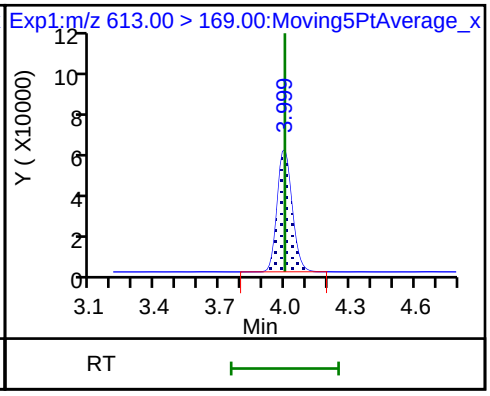
66 11-Chloroeicosafluoro-3-oxaundecan



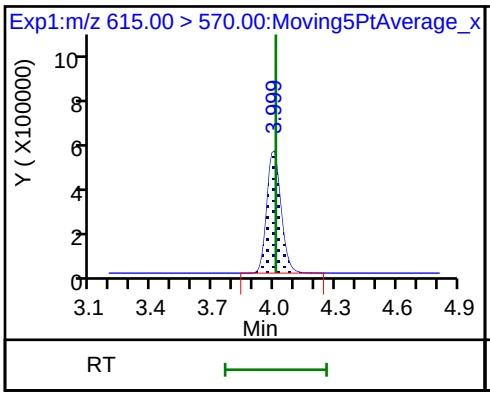
37 Perfluorododecanoic acid



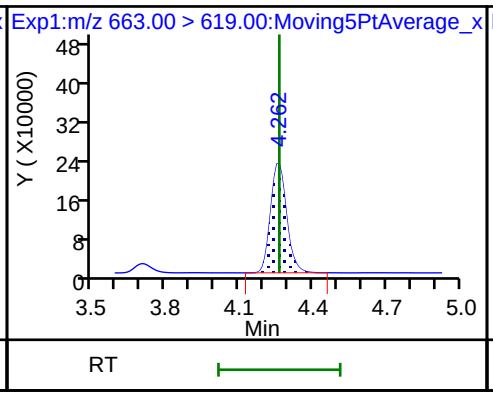
37 Perfluorododecanoic acid



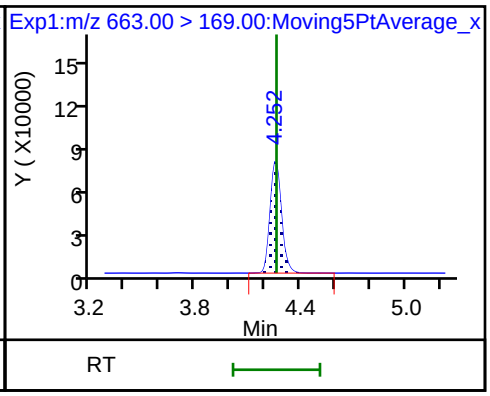
D 36 13C2 PFDoA



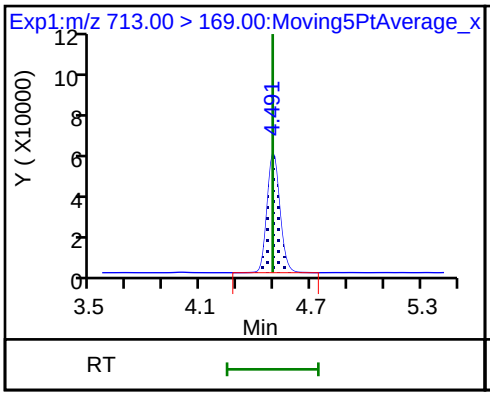
41 Perfluorotridecanoic acid



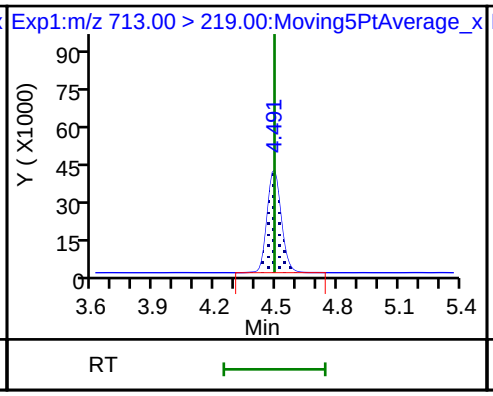
41 Perfluorotridecanoic acid



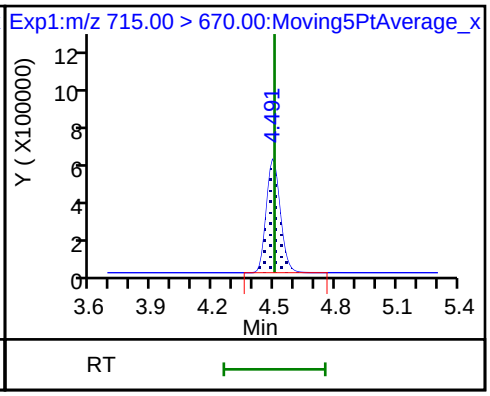
42 Perfluorotetradecanoic acid



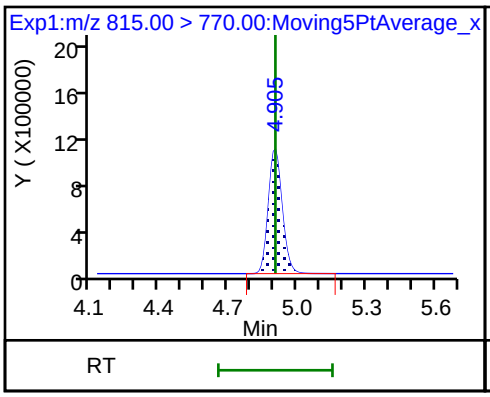
42 Perfluorotetradecanoic acid



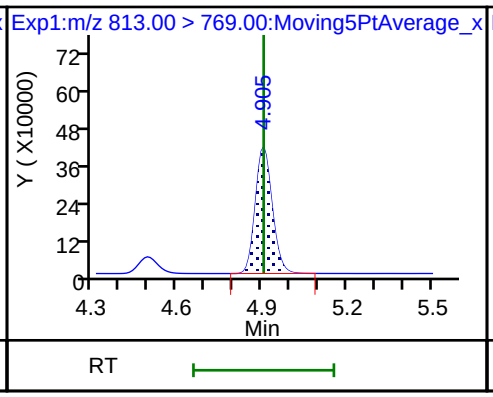
D 43 13C2-PFTeDA



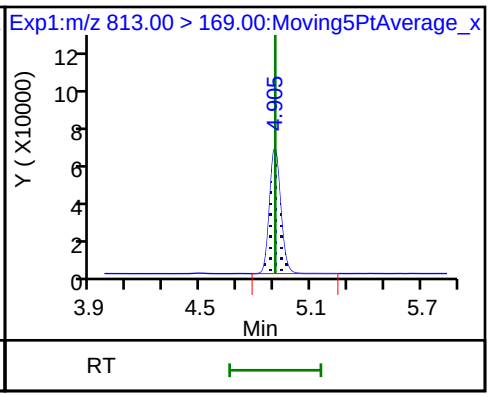
D 44 13C2-PFHxDA



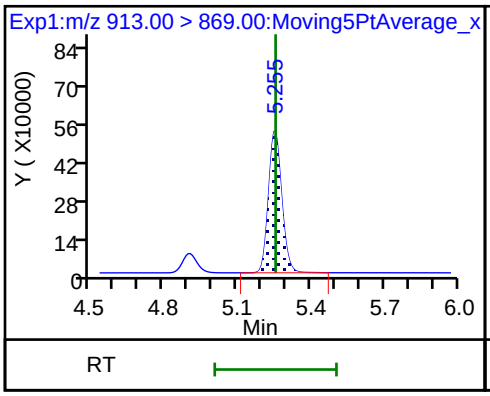
45 Perfluorohexadecanoic acid



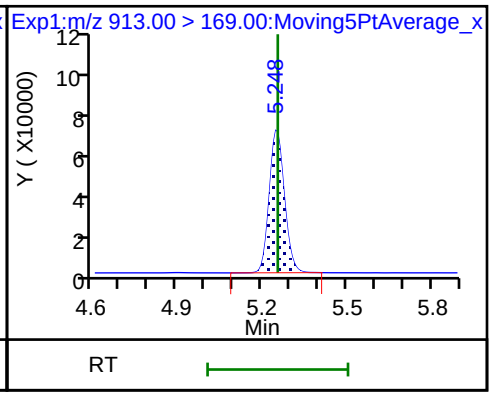
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

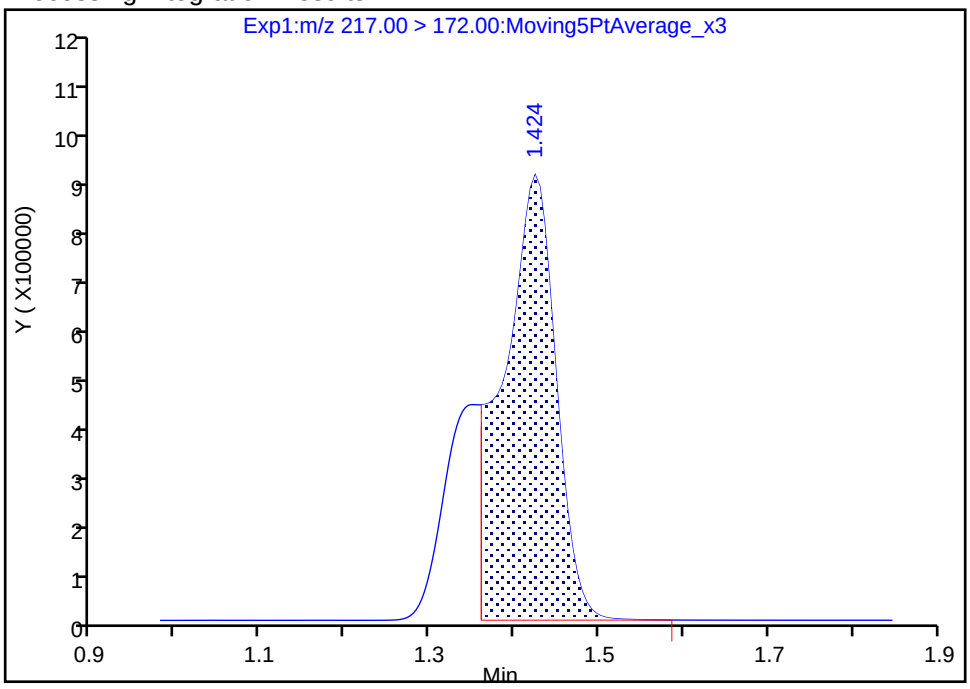
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_035.d
Injection Date: 13-Jul-2018 00:17:55 Instrument ID: A8_N
Lims ID: CCV L4
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 28 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

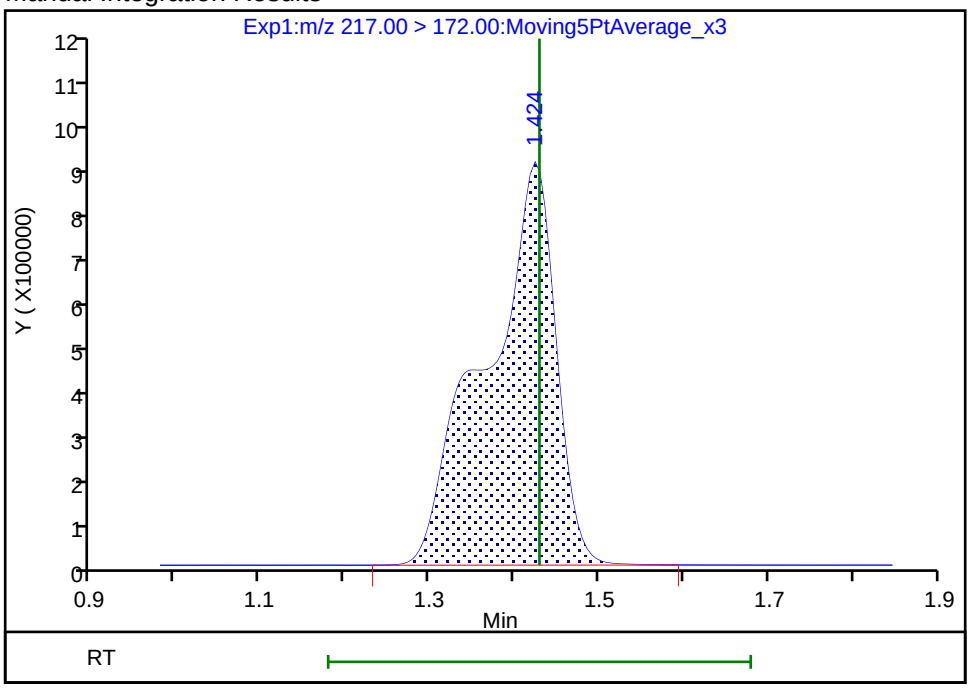
Processing Integration Results

RT: 1.42
Area: 3659143
Amount: 1.874428
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 4882194
Amount: 2.500946
Amount Units: ng/ml



Reviewer: ruangyotsakuld, 13-Jul-2018 16:05:17
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/13 Calibration Date: 07/13/2018 01:36

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9856	1.003		2.54	2.50	1.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.213	1.192		2.46	2.50	-1.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	76.50	77.00		2.22	2.21	0.7	50.0
4:2 FTS	AveID	13.00	12.13		2.18	2.34	-6.7	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.029	1.077		2.62	2.50	4.6	40.0
Perfluoropentanesulfonic acid (PFPeS)	AveID	69.78	70.47		2.37	2.35	1.0	50.0
HFPO-DA (GenX)	AveID	2.654	2.635		2.48	2.50	-0.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.157	1.144		2.47	2.50	-1.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.148	1.140		2.26	2.28	-0.7	40.0
ADONA	AveID	3.219	3.570		2.61	2.36	10.9	50.0
6:2 FTS	AveID	1.564	1.577		2.39	2.37	0.8	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.232	1.169		2.38	2.50	-5.1	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.318	1.384		2.50	2.38	5.1	50.0
Perfluorononanoic acid (PFNA)	AveID	1.109	1.058		2.38	2.50	-4.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.133	1.151		2.36	2.32	1.5	40.0
F-53B Major	AveID	1.836	1.935		2.46	2.33	5.4	50.0
Perfluorononanesulfonic acid (PFNS)	AveID	0.7752	0.8094		2.51	2.40	4.4	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	0.9856	1.042		2.64	2.50	5.8	40.0
8:2 FTS	AveID	1.290	1.401		2.60	2.40	8.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.049	1.078		2.57	2.50	2.8	40.0
N-methyl perfluorooctane sulfonamidoacetic acid (NMeFOSAA)	AveID	0.9858	1.019		2.58	2.50	3.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6714	0.7017		2.52	2.41	4.5	50.0
N-ethyl perfluorooctane sulfonamidoacetic acid (NEtFOSAA)	AveID	0.8840	0.9100		2.57	2.50	2.9	40.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.8195	0.7680		2.34	2.50	-6.3	40.0
F-53B Minor	AveID	2.654	2.848		2.53	2.36	7.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.092	1.087		2.49	2.50	-0.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.068	1.087		2.55	2.50	1.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2602	0.2628		2.53	2.50	1.0	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9728		2.54	2.50	1.5	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	1.143	1.054		2.31	2.50	-7.8	50.0

FORM VII 537 (modified)

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Lab Sample ID: CCV 320-233780/13 Calibration Date: 07/13/2018 01:36

Instrument ID: A8_N Calib Start Date: 07/11/2018 14:48

GC Column: GeminiC18 3x100 ID: 3.00(mm) Calib End Date: 07/11/2018 15:38

Lab File ID: 2018.07.12LLC_045.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
13C4 PFBA	Ave	1.356	1.309		2.41	2.50	-3.5	50.0
13C5 PFPeA	Ave	0.9425	0.9401		2.49	2.50	-0.3	50.0
13C3-PFBS	Ave	0.0237	0.0241		2.36	2.33	1.7	50.0
M2-4:2FTS	Ave	0.1273	0.1268		2.33	2.34	-0.4	50.0
13C2 PFHxA	Ave	1.017	1.035		2.54	2.50	1.8	50.0
13C3 HFPO-DA	Ave	0.0724	0.0809		2.79	2.50	11.8	50.0
13C4-PFHpA	Ave	0.9371	0.9465		2.53	2.50	1.0	50.0
18O2 PFHxS	Ave	1.328	1.286		2.29	2.37	-3.1	50.0
M2-6:2FTS	Ave	0.2009	0.1933		2.29	2.38	-3.8	40.0
13C4 PFOA	Ave	0.9560	0.9398		2.46	2.50	-1.7	50.0
13C4 PFOS	Ave	0.9742	0.9448		2.32	2.39	-3.0	50.0
13C5 PFNA	Ave	0.8546	0.8322		2.43	2.50	-2.6	50.0
13C8 FOSA	Ave	1.405	1.386		2.47	2.50	-1.3	50.0
M2-8:2FTS	Ave	0.2939	0.2211		1.80	2.40	-24.8	40.0
13C2 PFDA	Ave	0.7503	0.7049		2.35	2.50	-6.1	50.0
d3-NMeFOSAA	Ave	0.3075	0.3218		2.62	2.50	4.7	50.0
13C2 PFUnA	Ave	0.6266	0.6236		2.49	2.50	-0.5	50.0
d5-NEtFOSAA	Ave	0.3150	0.3463		2.75	2.50	9.9	50.0
13C2 PFDoA	Ave	0.6496	0.6683		2.57	2.50	2.9	50.0
13C2-PFTeDA	Ave	0.6740	0.6919		2.57	2.50	2.6	50.0
13C2-PFHxDA	Ave	1.074	1.128		2.63	2.50	5.0	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_045.d
Lims ID: CCV L5
Client ID:
Sample Type: CCV
Inject. Date: 13-Jul-2018 01:36:00 ALS Bottle#: 29 Worklist Smp#: 13
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: CCV L5
Misc. Info.: Plate: 1 Rack: 1
Operator ID: SACINSTLCMS01 Instrument ID: A8_N
Sublist: chrom-A8_N*sub32

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 13-Jul-2018 16:18:30 Calib Date: 11-Jul-2018 15:38:42
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180711-60919.b\2018.07.11LLICALA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK010

First Level Reviewer: ruangyotsakuld Date: 13-Jul-2018 16:18:30

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										
212.90 > 169.00	1.434	1.424	0.010	1.000	3737198	2.54		102	2572	
D 1 13C4 PFBA										
217.00 > 172.00	1.434	1.429	0.005	0.536	3726650	2.41		96.5	23142	
D 3 13C5-PFPeA										
267.90 > 223.00	1.726	1.719	0.007	0.646	2676598	2.49		99.7	39363	
4 Perfluoropentanoic acid										
262.90 > 219.00	1.726	1.720	0.006	1.000	3190606	2.46		98.3	1422	
D 47 13C3-PFBS										
301.90 > 83.00	1.771	1.764	0.007	0.662	63778	2.36		102	504	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.771	1.765	0.006	1.000	4667993	2.22		101	45605	
298.90 > 99.00	1.771	1.765	0.006	1.000	1889861		2.47(1.25-3.74)		32775	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.978	1.970	0.008	1.117	776782	2.18		93.3	44119	
D 60 M2-4:2FTS										
329.00 > 81.00	1.978	1.980	-0.002	0.740	337070	2.33		99.6	5694	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.011	2.003	0.008	1.000	3174703	2.62		105	9064	
313.00 > 119.00	2.011	2.003	0.008	1.000	292852		10.84(5.03-15.10)		5452	
D 7 13C2 PFHxA										
315.00 > 270.00	2.011	2.014	-0.003	0.752	2947436	2.54		102	54525	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.034	2.026	0.008	1.148	4532897	2.37		101	53542	
349.00 > 99.00	2.034	2.026	0.008	1.148	1602977		2.83(1.36-4.07)		32650	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.113	2.094	0.019	1.005	606863	2.48		99.3	6397	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.101	2.104	-0.003	0.786	230345	2.79		112	4278	
D 9 13C4-PFHpA										
367.00 > 322.00	2.329	2.319	0.010	0.871	2694805	2.53		101	32963	
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.329	2.320	0.009	1.000	3083525	2.47		98.9	6232	
363.00 > 169.00	2.329	2.320	0.009	1.000	1187591		2.60(1.13-3.40)		9444	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.342	2.333	0.009	1.000	3796968	2.26		99.3	15502	
399.00 > 99.00	2.342	2.333	0.009	1.000	1245537		3.05(1.50-4.49)		7536	
D 11 18O2 PFHxS										
403.00 > 84.00	2.342	2.345	-0.003	0.876	3463591	2.29		96.9	30902	
65 Adona										
377.00 > 251.00	2.369	2.359	0.010	0.781	9045114	2.61		111	75231	
377.00 > 85.00	2.369	2.359	0.010	0.781	5605472		1.61(0.84-2.53)		27289	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.651	2.644	0.007	1.000	823084	2.39		101	16676	
D 12 M2-6:2FTS										
429.00 > 81.00	2.651	2.652	-0.001	0.992	522900	2.29		96.2	14356	
* 62 13C2-PFOA										
415.00 > 370.00	2.673	2.668	0.005		2847127	2.50			32073	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.673	2.668	0.005	1.000	3131012	2.38		94.9	1812	
413.00 > 169.00	2.673	2.668	0.005	1.000	1641442		1.91(0.84-2.52)		8870	
D 14 13C4 PFOA										
417.00 > 372.00	2.673	2.674	-0.001	1.000	2675587	2.46		98.3	30210	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.681	2.675	0.006	0.884	3545104	2.50		105	22280	
449.00 > 99.00	2.681	2.675	0.006	0.884	906703		3.91(1.94-5.82)		20381	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.032	3.024	0.008	1.000	2872490	2.36		102	24973	
499.00 > 99.00	3.032	3.024	0.008	1.000	648176		4.43(2.31-6.93)		10861	
20 Perfluorononanoic acid										
463.00 > 419.00	3.032	3.024	0.008	1.000	2505612	2.38		95.3	5291	
463.00 > 169.00	3.032	3.024	0.008	1.000	580879		4.31(1.90-5.69)		23887	
D 19 13C5 PFNA										
468.00 > 423.00	3.032	3.030	0.002	1.134	2369303	2.43		97.4	30863	
D 18 13C4 PFOS										
503.00 > 80.00	3.032	3.030	0.002	1.134	2571627	2.32		97.0	20601	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.240	3.232	0.008	1.069	4852286	2.46		105	35772	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.370	3.361	0.009	1.111	2090094	2.51		104	38625	
549.00 > 99.00	3.370	3.361	0.009	1.111	795592		2.63(1.33-3.97)		13707	
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.368	0.002	1.260	3946832	2.47		98.7	28750	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.370	0.0	1.000	4113783	2.64		106	30981	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.379	3.370	0.009	1.000	844980	2.60		109	9164	
D 26 M2-8:2FTS										
529.00 > 81.00	3.379	3.378	0.001	1.264	602931	1.80		75.2	12970	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.389	3.380	0.008	1.000	2164456	2.57		103	18181	
513.00 > 169.00	3.389	3.380	0.008	1.000	373048		5.80(2.36-7.09)		10264	
D 23 13C2 PFDA										
515.00 > 470.00	3.389	3.387	0.001	1.267	2006984	2.35		93.9	20117	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.538	3.536	0.002	1.323	916326	2.62		105	16673	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.538	3.538	0.0	1.000	933911	2.58		103	11078	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.697	3.687	0.010	1.219	1819604	2.52		105	31442	
599.00 > 99.00	3.697	3.687	0.010	1.219	630694		2.89(1.39-4.16)		16267	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.708	3.698	0.010	1.000	897220	2.57		103	21596	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.708	3.698	0.010	1.000	1363525	2.34		93.7	6994	
563.00 > 169.00	3.708	3.698	0.010	1.000	357776		3.81(2.12-6.36)		12207	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.708	3.707	0.001	1.387	985952	2.75		110	2826	
D 30 13C2 PFUnA										
565.00 > 520.00	3.708	3.707	0.001	1.387	1775480	2.49		99.5	36221	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.866	3.855	0.011	1.275	7217393	2.53		107	83603	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.009	3.999	0.010	1.003	2068693	2.49		99.6	1716	
613.00 > 169.00	4.009	3.999	0.010	1.003	516056		4.01(2.13-6.40)		10773	
D 36 13C2 PFDoA										
615.00 > 570.00	3.999	4.007	-0.008	1.496	1902611	2.57		103	18048	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.262	4.262	0.0	1.066	2068500	2.55		102	1194	
663.00 > 169.00	4.262	4.262	0.0	1.066	636446		3.25(1.25-3.76)		12740	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.501	4.491	0.010	1.000	517732	2.53		101	7332	
713.00 > 219.00	4.491	4.491	0.0	0.998	368532		1.40(0.71-2.13)		5470	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.501	4.501	0.0	1.684	1969798	2.57		103	12254	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.905	4.904	0.001	1.835	3210578	2.63		105	11975	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.905	4.905	0.0	1.000	3123392	2.54		102	872	
813.00 > 169.00	4.905	4.905	0.0	1.000	527202		5.92(2.86-8.58)		4250	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.255	5.255	0.0	1.071	3383166	2.31		92.2	859	
913.00 > 169.00	5.255	5.255	0.0	1.071	413704		8.18(3.83-11.48)		4614	

Reagents:

LCPFC_LL5_00005 Amount Added: 1.00 Units: mL

Report Date: 13-Jul-2018 16:18:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180712-60998.b\2018.07.12LLC_045.d

Injection Date: 13-Jul-2018 01:36:00 Instrument ID: A8_N

Lims ID: CCV L5

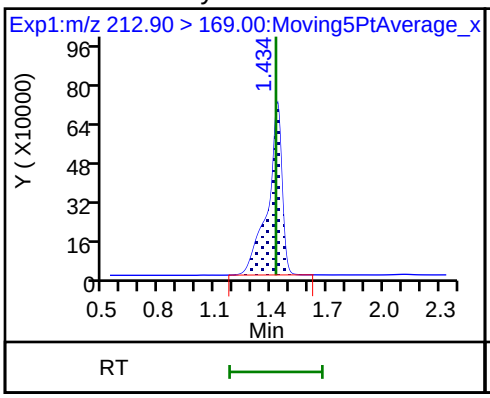
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 29 Worklist Smp#: 13

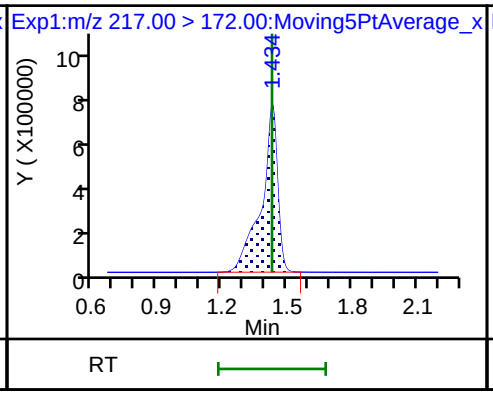
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

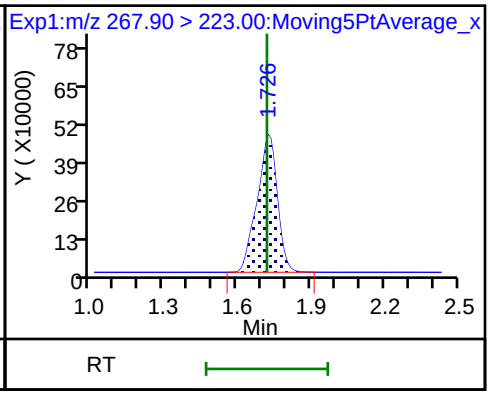
2 Perfluorobutyric acid



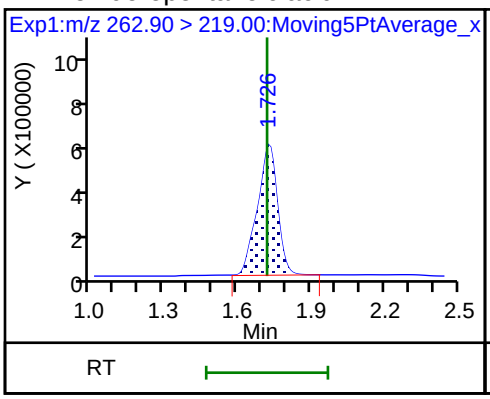
D 1 13C4 PFBA



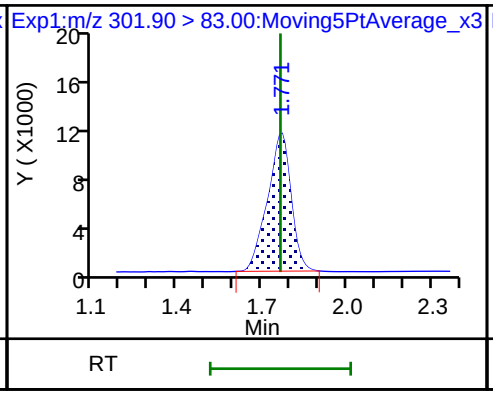
D 3 13C5-PFPeA



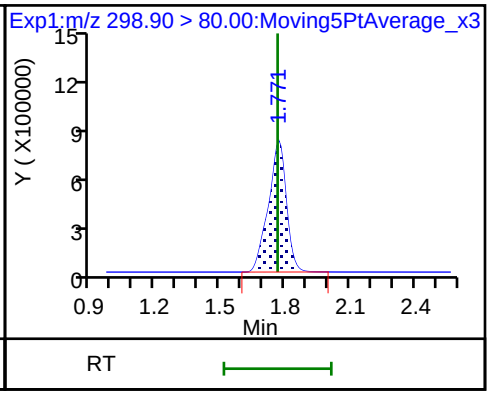
4 Perfluoropentanoic acid



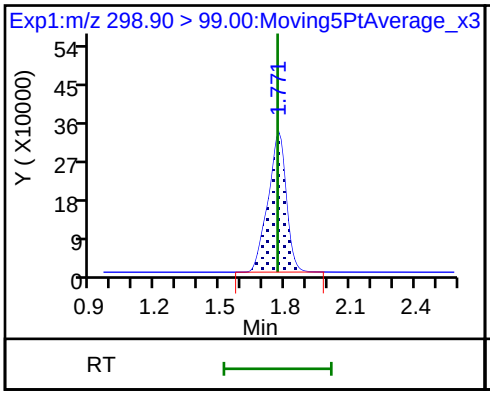
D 47 13C3-PFBS



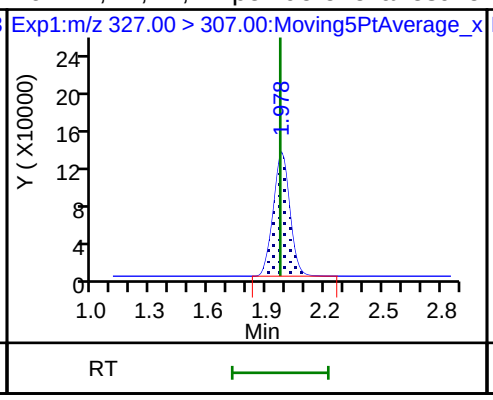
5 Perfluorobutanesulfonic acid



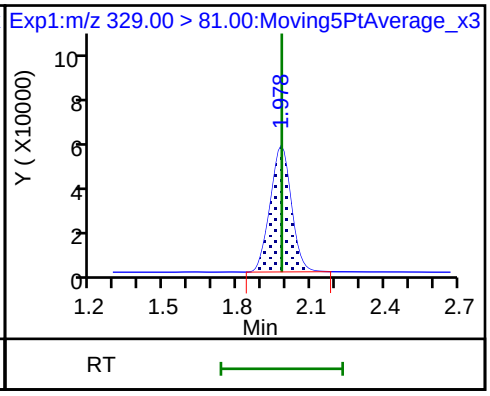
5 Perfluorobutanesulfonic acid



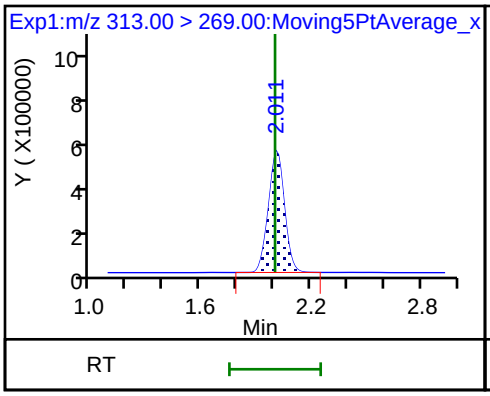
61 1H,1H,2H,2H-perfluorohexanesulfon



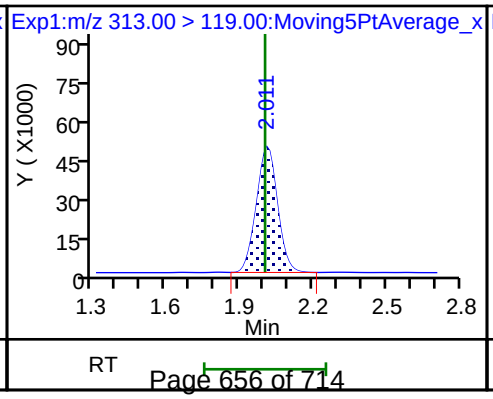
D 60 M2-4:2FTS



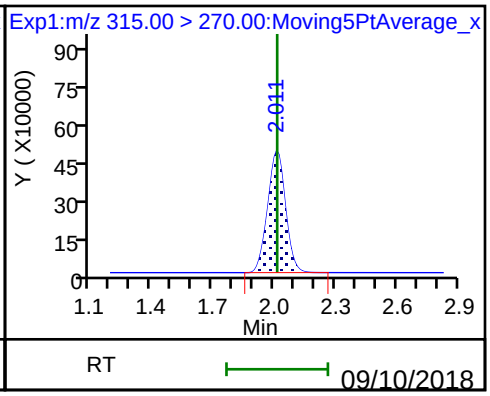
6 Perfluorohexanoic acid



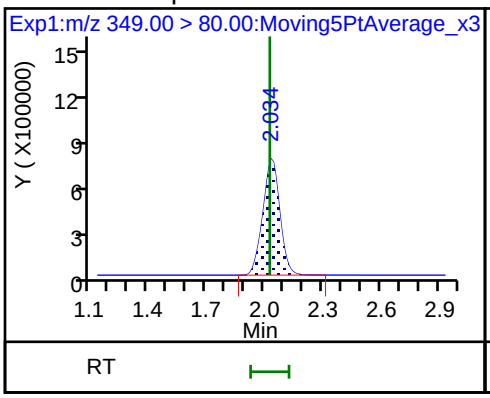
6 Perfluorohexanoic acid



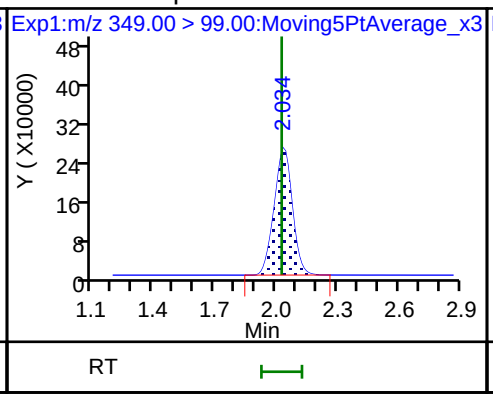
D 7 13C2 PFHxA



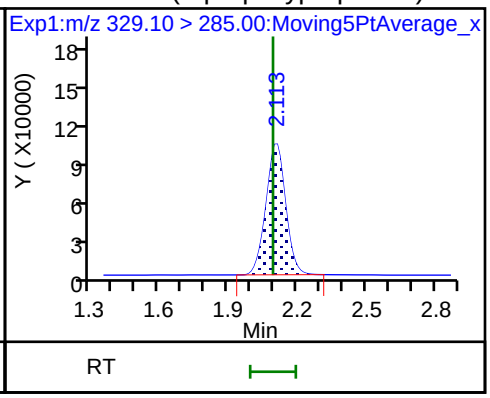
70 Perfluoropentanesulfonic acid



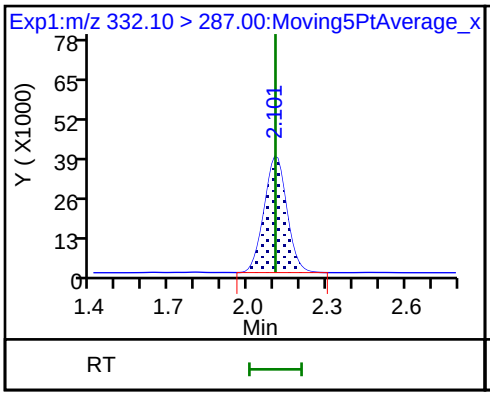
70 Perfluoropentanesulfonic acid



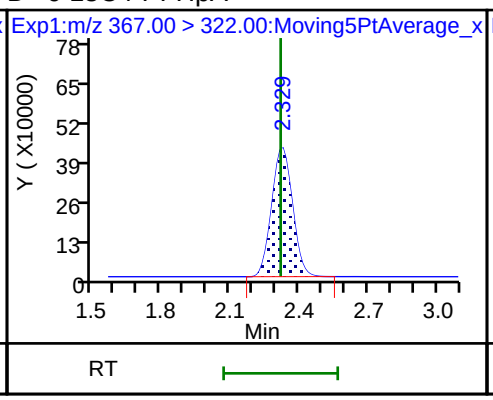
67 Perfluoro(2-propoxypropanoic) acid



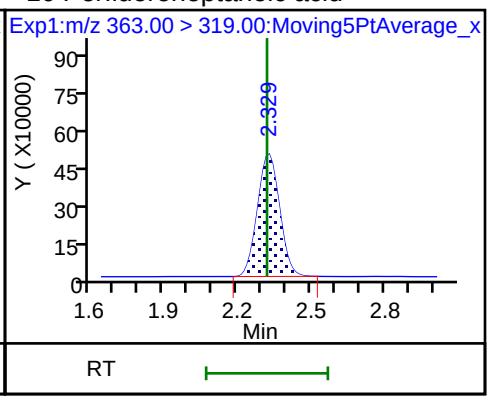
D 64 13C3 HFPO-DA



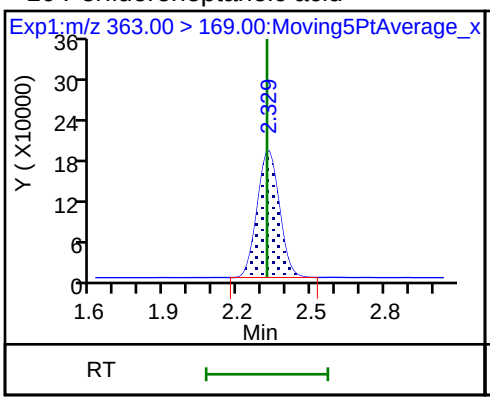
D 9 13C4-PFHpA



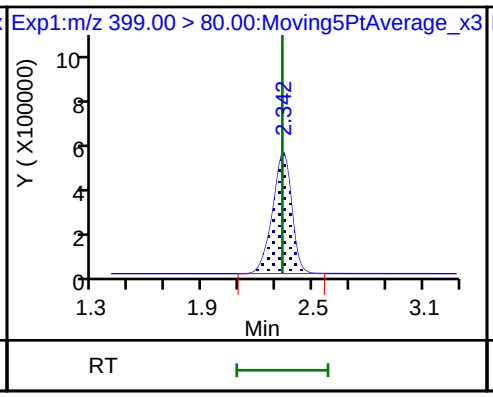
10 Perfluoroheptanoic acid



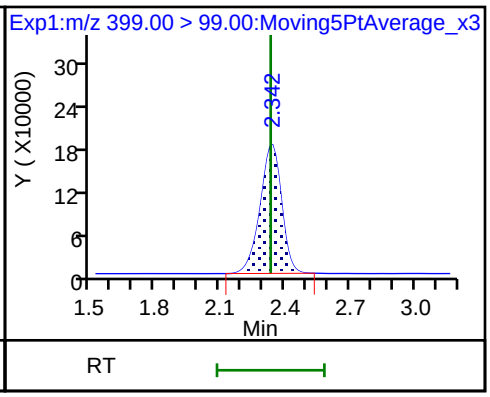
10 Perfluoroheptanoic acid



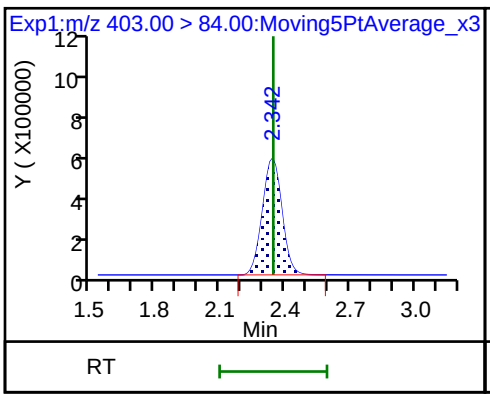
8 Perfluorohexanesulfonic acid



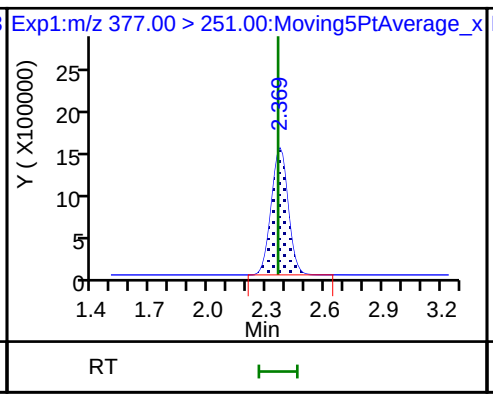
8 Perfluorohexanesulfonic acid



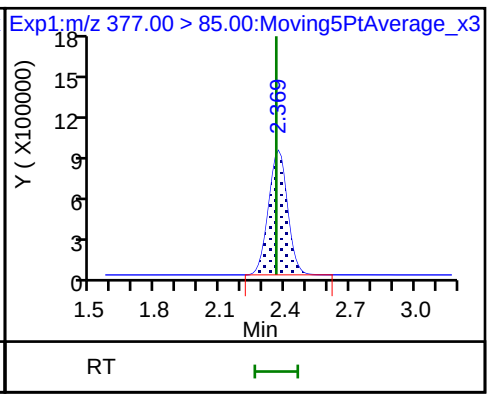
D 11 18O2 PFHxS



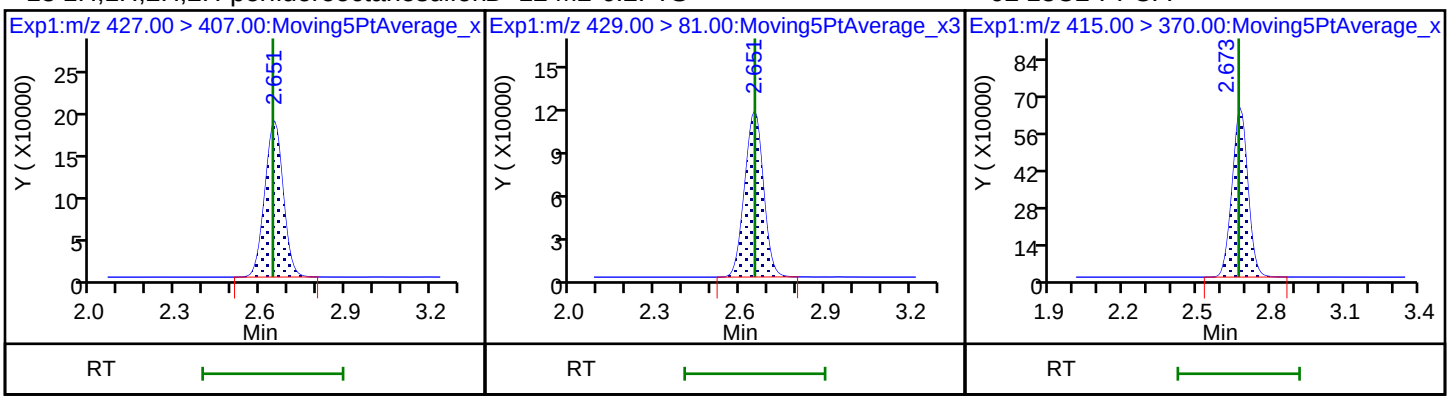
65 Adona



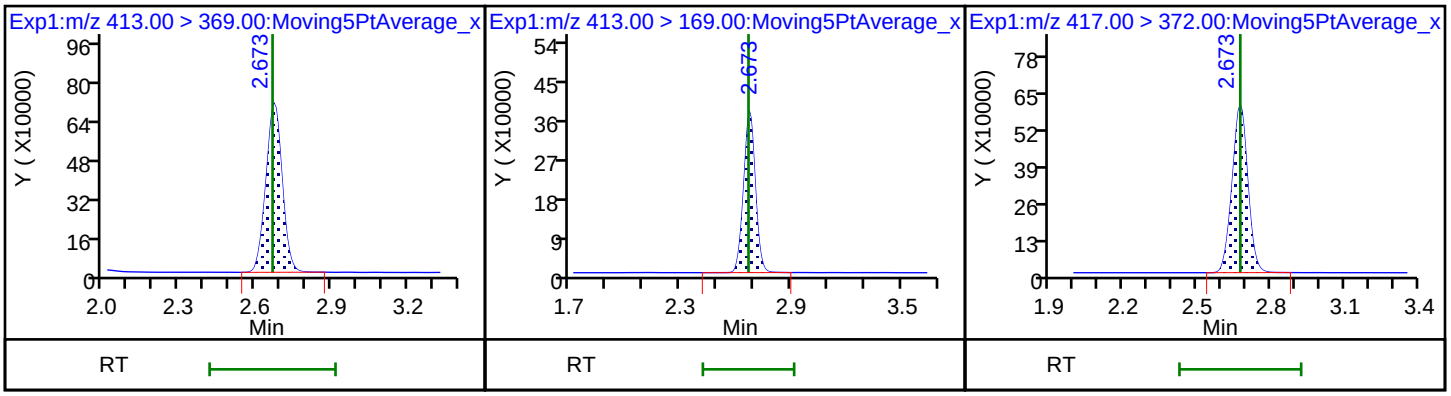
65 Adona



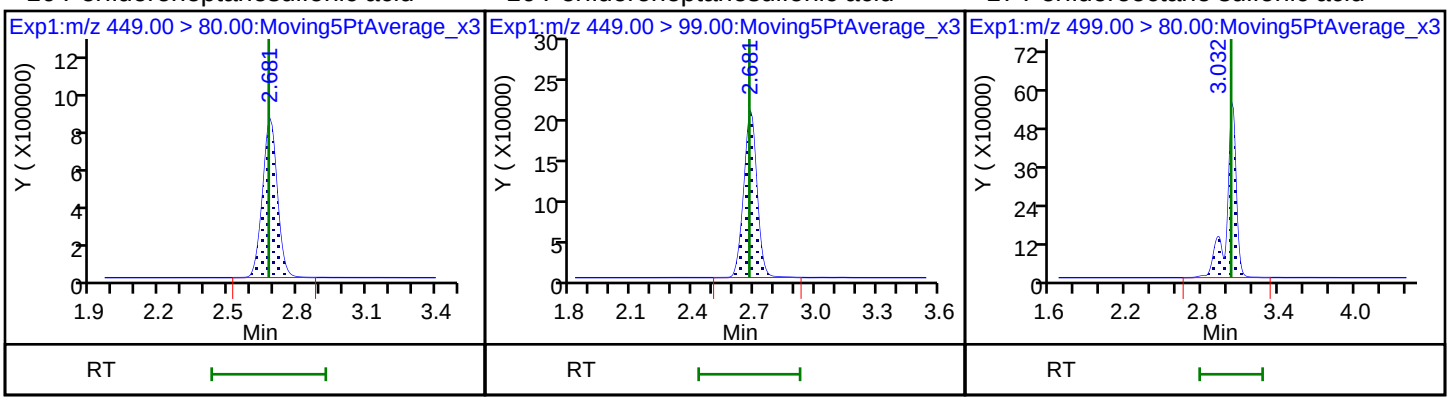
13 1H,1H,2H,2H-perfluorooctanesulfonD 12 M2-6:2FTS * 62 13C2-PFOA



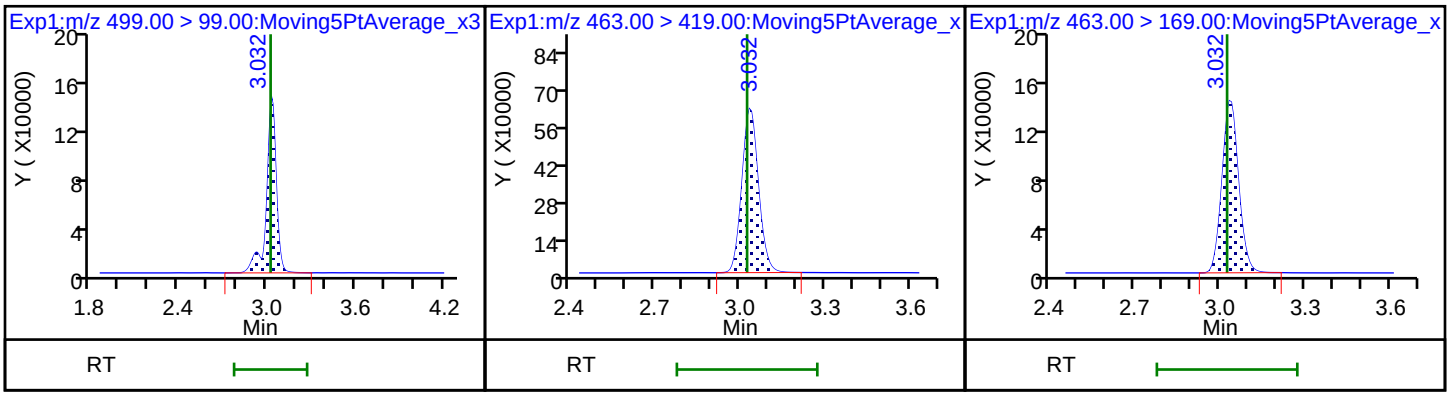
15 Perfluorooctanoic acid 15 Perfluorooctanoic acid D 14 13C4 PFOA



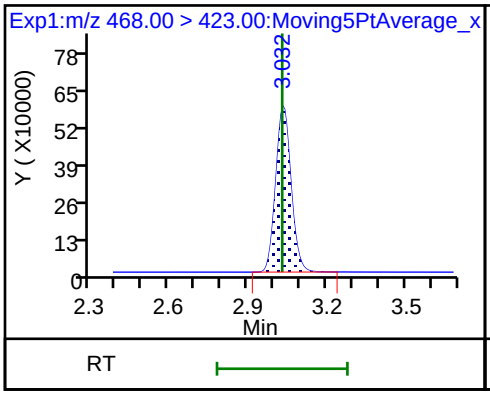
16 Perfluoroheptanesulfonic acid 16 Perfluoroheptanesulfonic acid 17 Perfluorooctane sulfonic acid



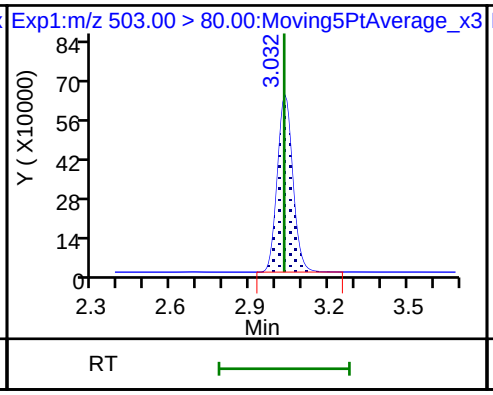
17 Perfluorooctane sulfonic acid 20 Perfluorononanoic acid 20 Perfluorononanoic acid



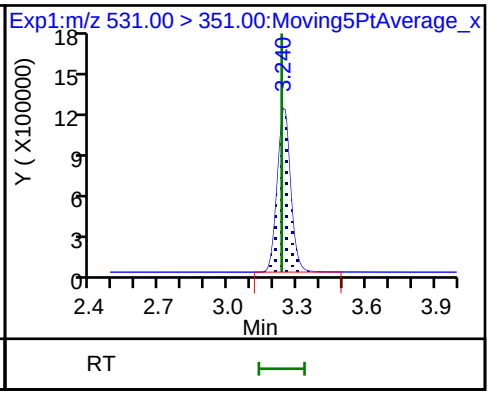
D 19 13C5 PFNA



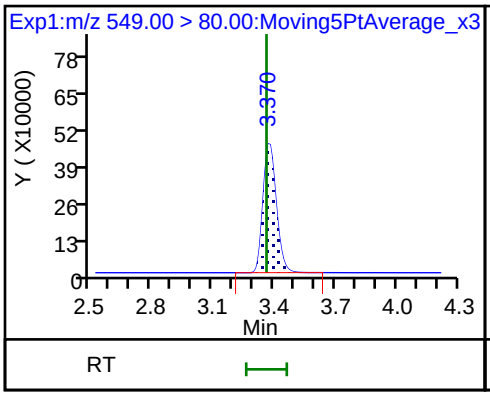
D 18 13C4 PFOS



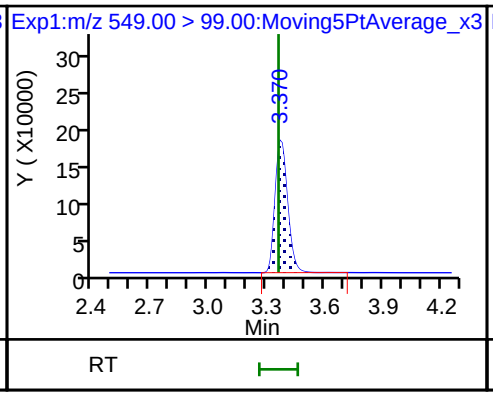
69 9-Chlorohexadecafluoro-3-oxanonane



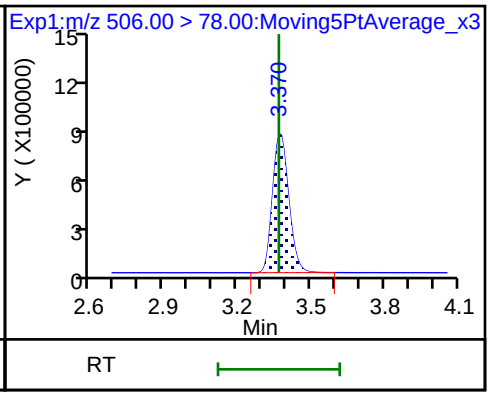
68 Perfluorononanesulfonic acid



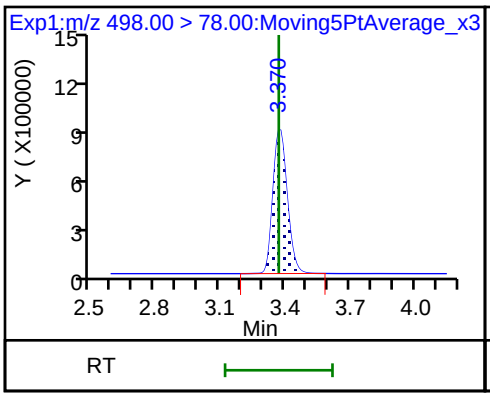
68 Perfluorononanesulfonic acid



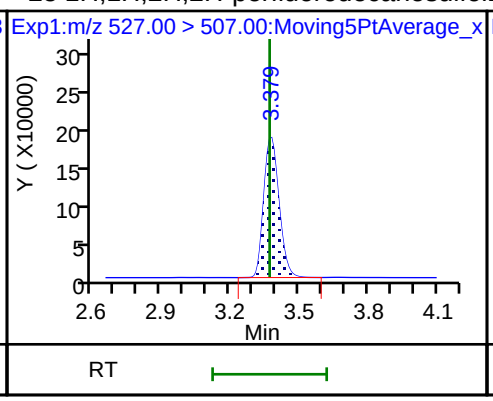
D 21 13C8 FOSA



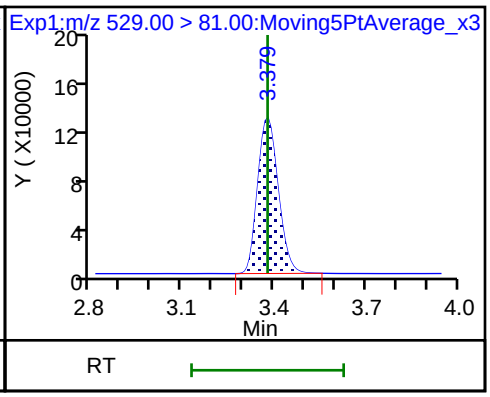
22 Perfluorooctane Sulfonamide



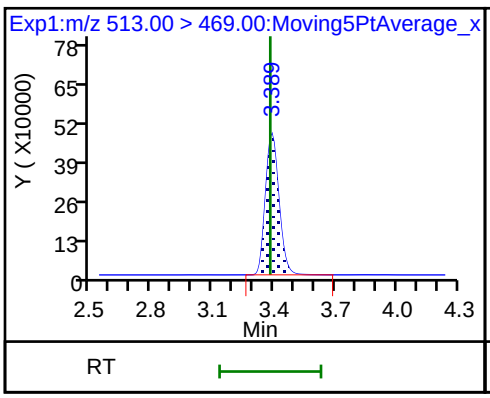
25 1H,1H,2H,2H-perfluorodecanesulfon



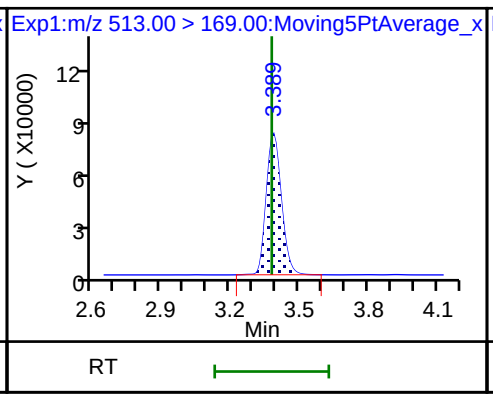
D 26 M2-8:2FTS



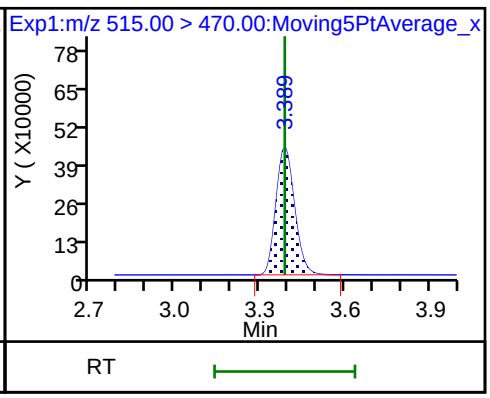
24 Perfluorodecanoic acid



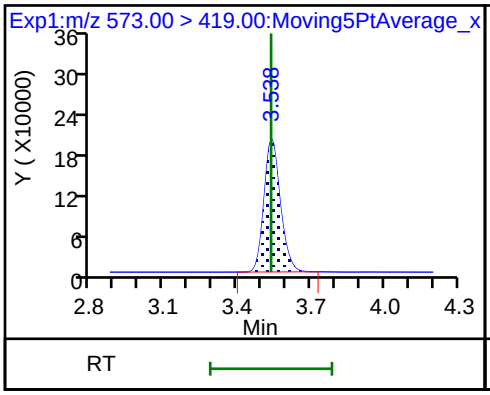
24 Perfluorodecanoic acid



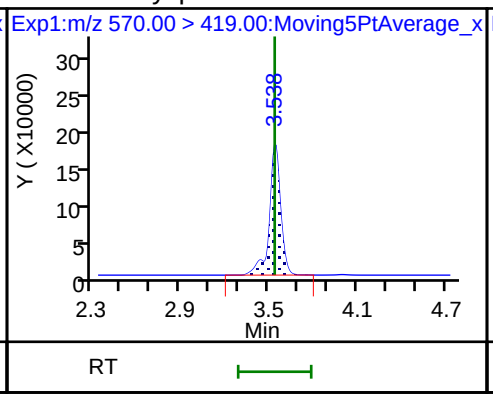
D 23 13C2 PFDA



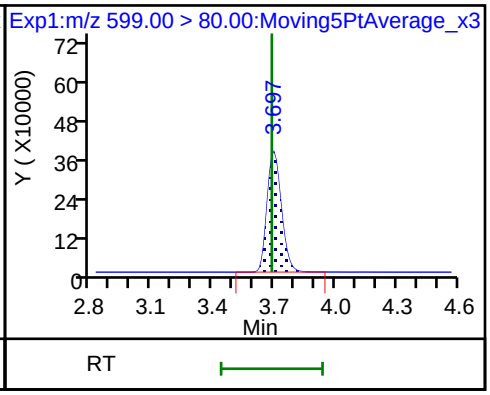
D 27 d3-NMeFOSAA



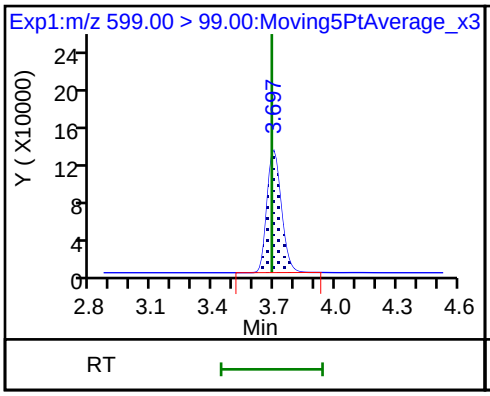
28 N-methyl perfluorooctane sulfonami



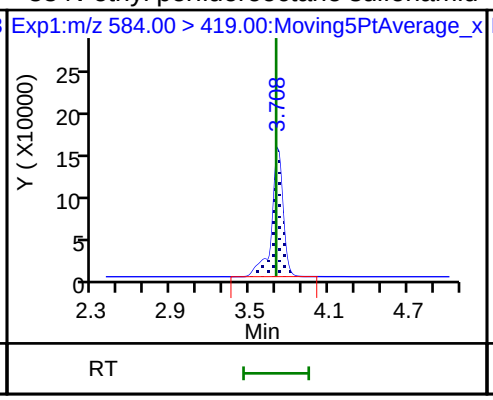
29 Perfluorodecane Sulfonic acid



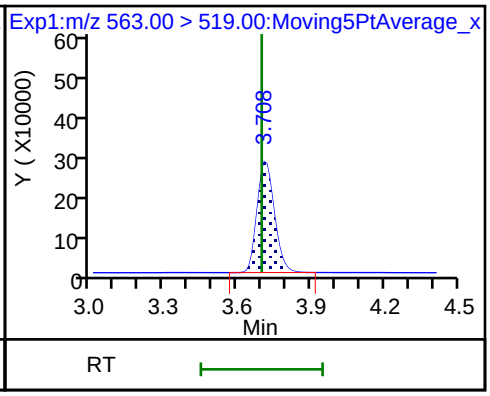
29 Perfluorodecane Sulfonic acid



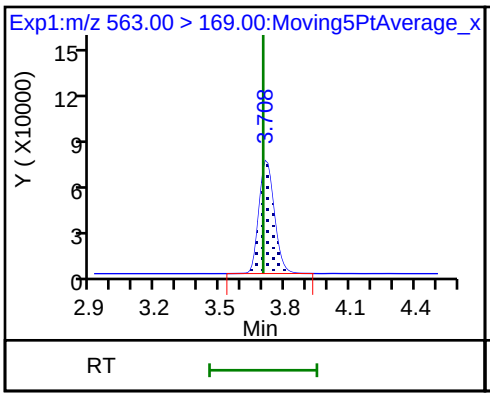
33 N-ethyl perfluorooctane sulfonamid



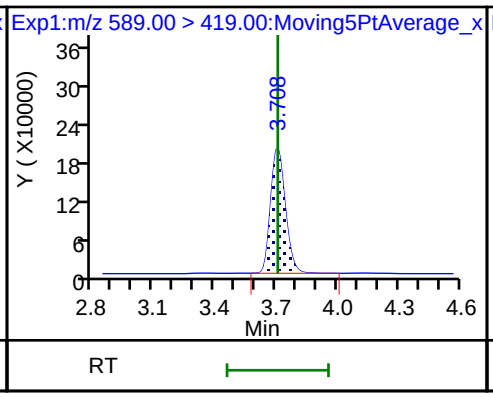
31 Perfluoroundecanoic acid



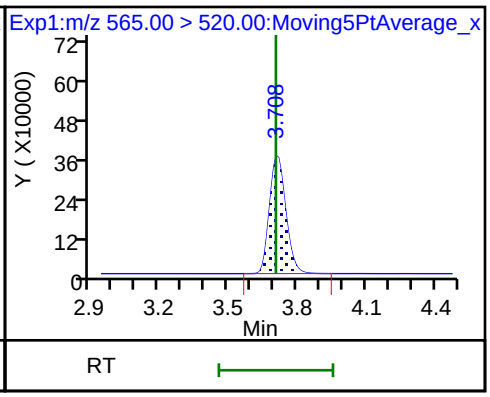
31 Perfluoroundecanoic acid



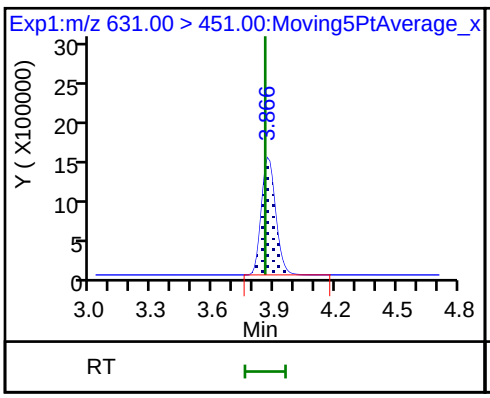
D 32 d5-NEtFOSAA



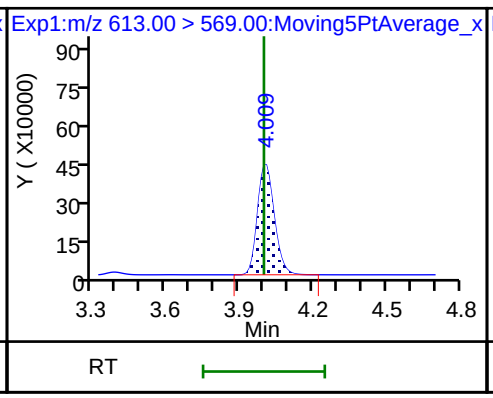
D 30 13C2 PFUnA



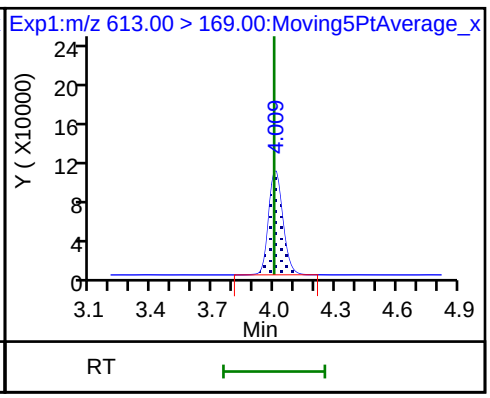
66 11-Chloroeicosafluoro-3-oxaundecan



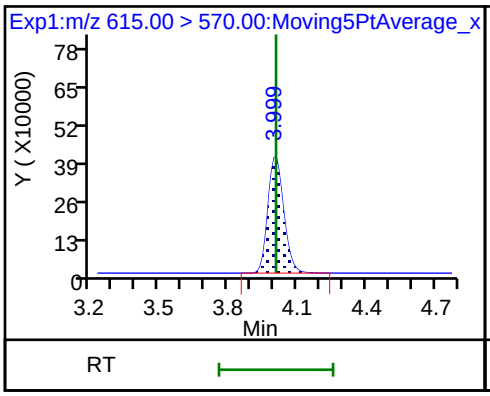
37 Perfluorododecanoic acid



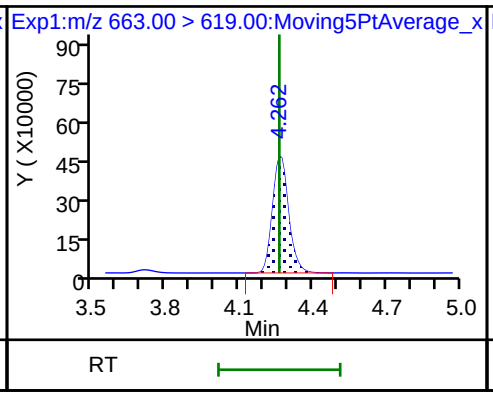
37 Perfluorododecanoic acid



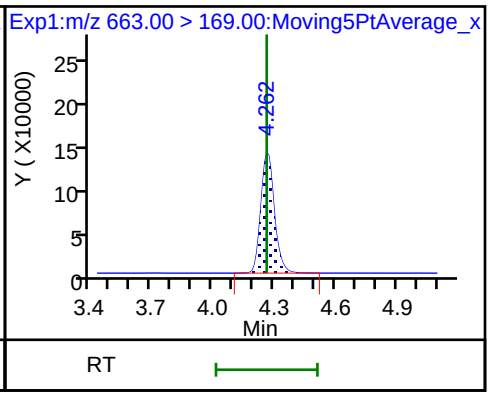
D 36 13C2 PFDoA



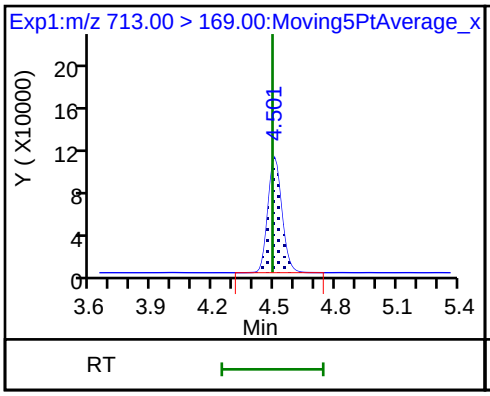
41 Perfluorotridecanoic acid



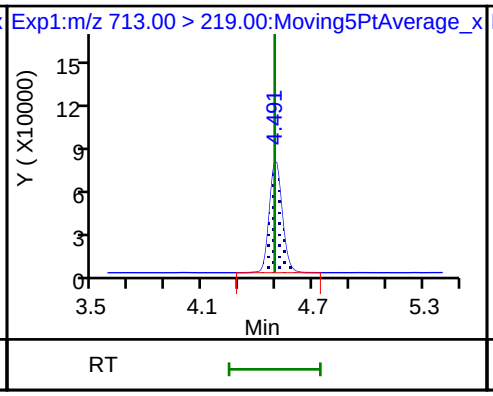
41 Perfluorotridecanoic acid



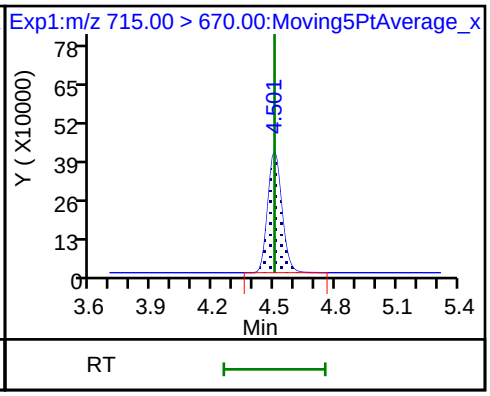
42 Perfluorotetradecanoic acid



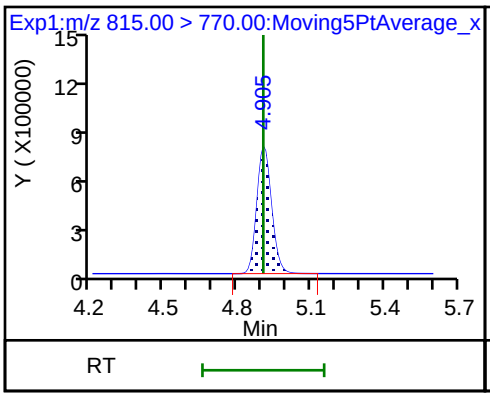
42 Perfluorotetradecanoic acid



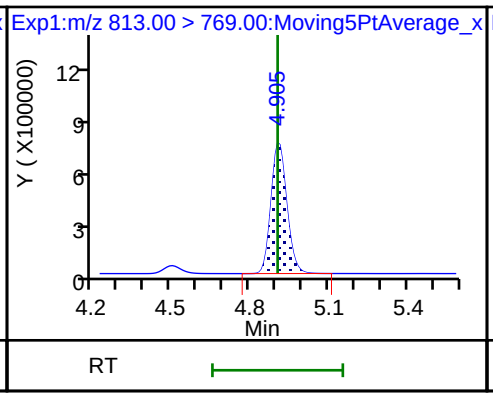
D 43 13C2-PFTeDA



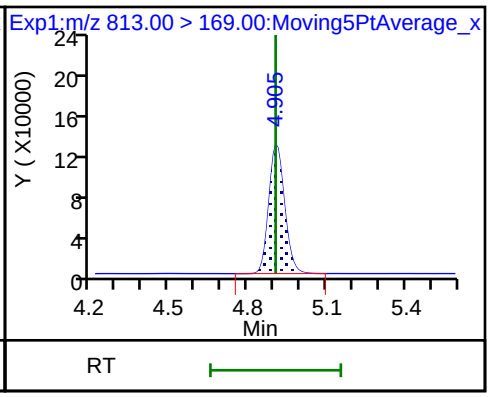
D 44 13C2-PFHxDA



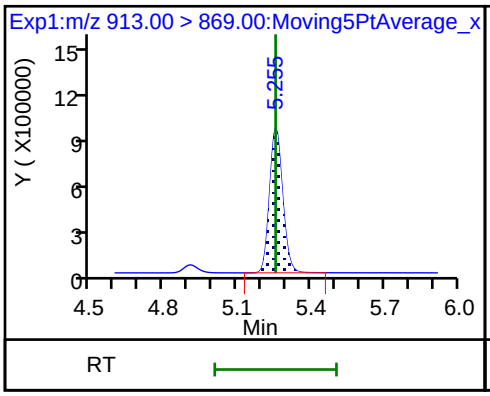
45 Perfluorohexadecanoic acid



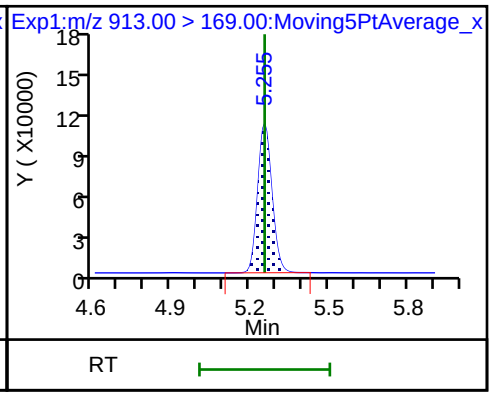
45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 320-232888/1-A

Matrix: Water | Lab File ID: 2018.07.10LLB_048.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:51

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Client Sample ID: Lab Sample ID: MB 320-232888/1-A

Matrix: Water Lab File ID: 2018.07.10LLB_048.d

Analysis Method: 537 (modified) Date Collected:

Extraction Method: 3535 Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) Date Analyzed: 07/11/2018 01:51

Con. Extract Vol.: 10.00(mL) Dilution Factor: 1

Injection Volume: 2(uL) GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	75		25-150
STL00992	13C4 PFBA	81		25-150
STL00993	13C2 PFHxA	79		25-150
STL00990	13C4 PFOA	87		25-150
STL00995	13C5 PFNA	87		25-150
STL00996	13C2 PFDA	88		25-150
STL00997	13C2 PFUnA	85		25-150
STL00998	13C2 PFDoA	87		25-150
STL00994	18O2 PFHxS	93		25-150
STL00991	13C4 PFOS	85		25-150
STL01892	13C4-PFHpA	84		25-150
STL01893	13C5 PFPeA	78		25-150
STL02337	13C3-PFBS	77		25-150
STL02116	13C2-PFTeDA	80		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d
Lims ID: MB 320-232888/1-A
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2018 01:51:01 ALS Bottle#: 34 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: mb 320-232888/1-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:36:16 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:36:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.425	-0.001	0.535	5808400	2.02		80.7	24460	M
D 3 13C5-PFPeA										
267.90 > 223.00	1.710	1.712	-0.002	0.643	4142347	1.94		77.8	38011	
D 47 13C3-PFBS										
301.90 > 83.00	1.746	1.748	-0.002	0.657	91709	1.80		77.4	685	
D 7 13C2 PFHxA										
315.00 > 270.00	2.002	1.994	0.008	0.753	4493979	1.97		78.8	50169	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.084	0.009	0.787	397586	2.13		85.1	6929	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.309	0.010	0.872	4258090	2.10		84.2	40689	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.322	0.010	0.877	5499799	2.21		93.4	79737	
D 12 M2-6:2FTS										
429.00 > 81.00	2.635	2.621	0.014	0.991	975812	2.15		90.4	15353	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.652	0.007		5197613	2.50			33050	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.653	0.006	1.000	4294950	2.17		86.6	49617	
D 19 13C5 PFNA										
468.00 > 423.00	3.021	3.010	0.011	1.136	3656912	2.17		86.8	41699	
D 18 13C4 PFOS										
503.00 > 80.00	3.021	3.010	0.011	1.136	3600434	2.03		84.7	37818	
D 26 M2-8:2FTS										
529.00 > 81.00	3.365	3.351	0.014	1.265	1074901	2.13		88.8	24824	
D 21 13C8 FOSA										
506.00 > 78.00	3.365	3.351	0.014	1.265	4601571	1.86		74.6	40912	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	3.374	3.361	0.013	1.269	3204095	2.20		88.2	30714	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.524	3.519	0.005	1.325	1719293	2.01		80.3	22569	
D 30 13C2 PFUnA										
565.00 > 520.00	3.690	3.687	0.003	1.388	2609552	2.14		85.5	25775	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.690	3.687	0.003	1.388	1792485	2.12		84.7	11046	
D 36 13C2 PFDoA										
615.00 > 570.00	3.989	3.977	0.012	1.500	2842733	2.17		86.9	13308	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.491	4.480	0.011	1.689	3208423	2.01		80.5	11202	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.841	6323537	2.14		85.7	11223	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:36:17 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d

Injection Date: 11-Jul-2018 01:51:01 Instrument ID: A8_N

Lims ID: MB 320-232888/1-A

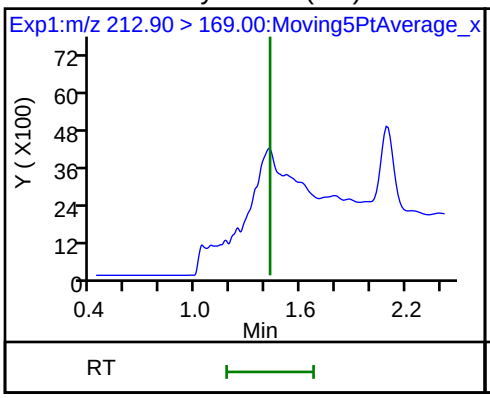
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 34 Worklist Smp#: 2

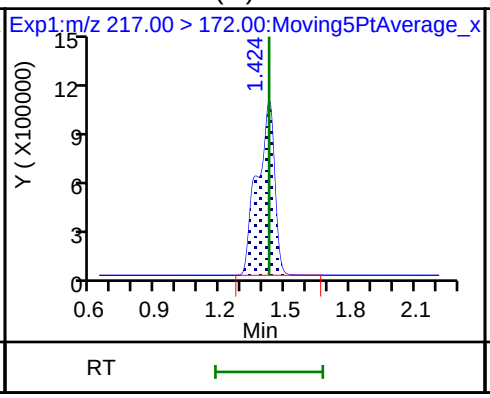
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

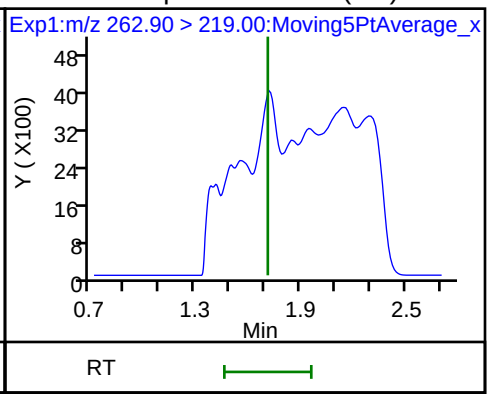
2 Perfluorobutyric acid (ND)



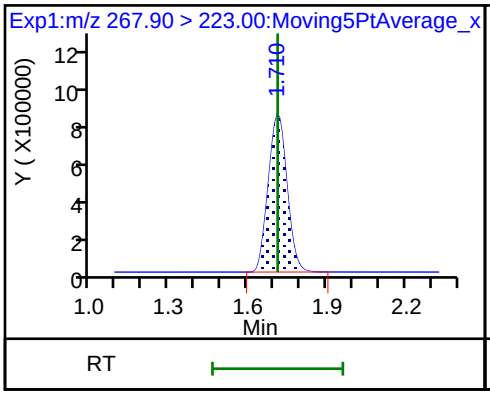
D 1 13C4 PFBA (M)



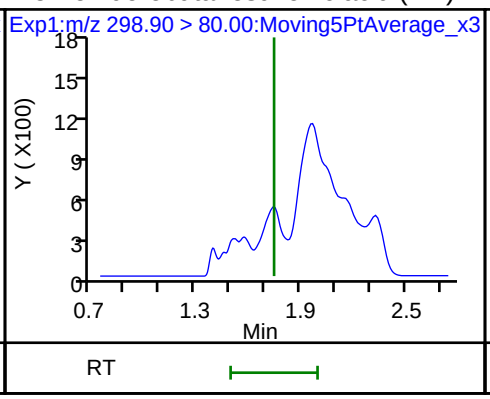
4 Perfluoropentanoic acid (ND)



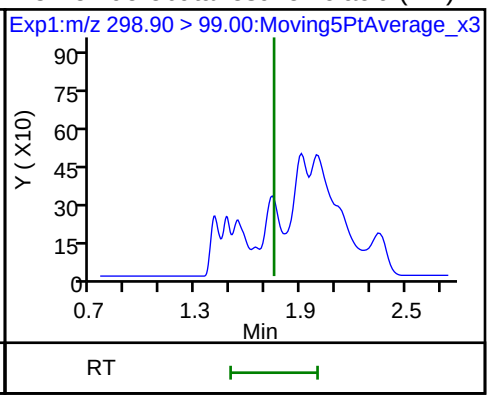
D 3 13C5-PFPeA



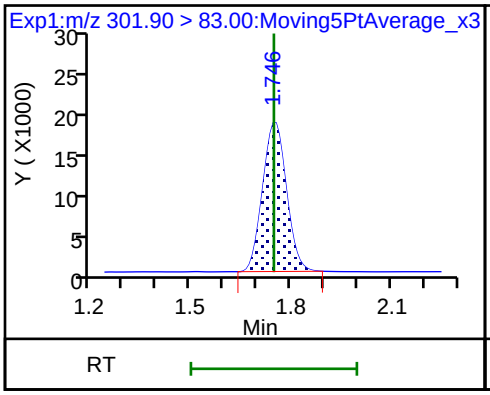
5 Perfluorobutanesulfonic acid (ND)



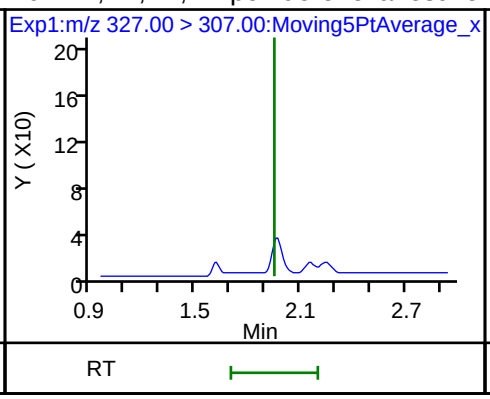
5 Perfluorobutanesulfonic acid (ND)



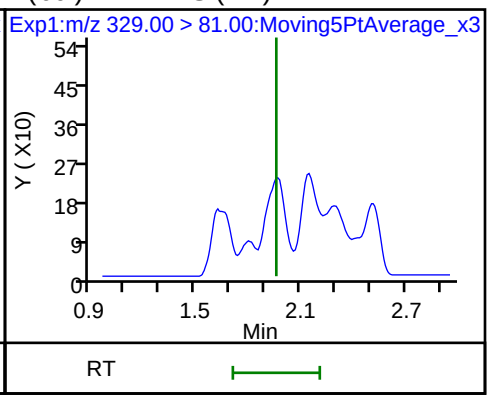
D 47 13C3-PFBS



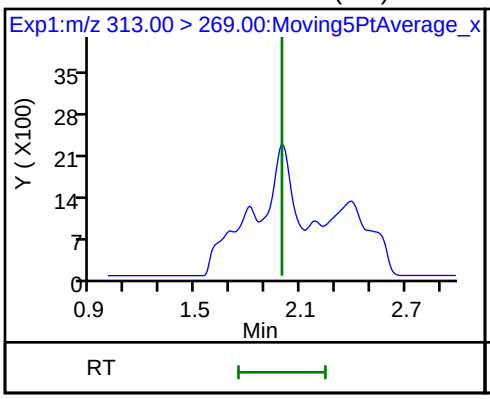
61 1H,1H,2H,2H-perfluorohexanesulfonic (ND)



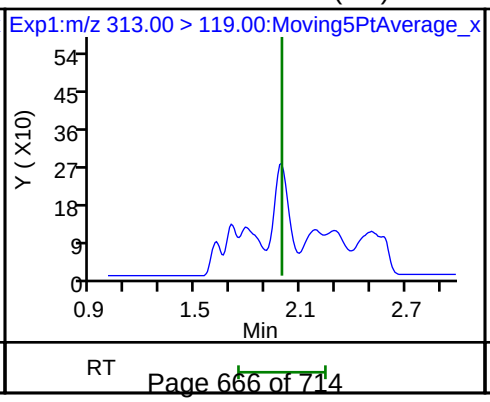
D 80 M2-4:2FTS (ND)



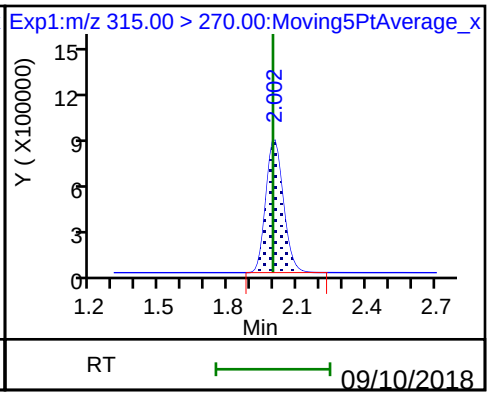
6 Perfluorohexanoic acid (ND)



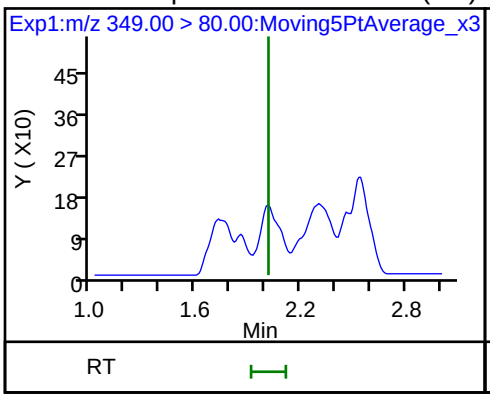
6 Perfluorohexanoic acid (ND)



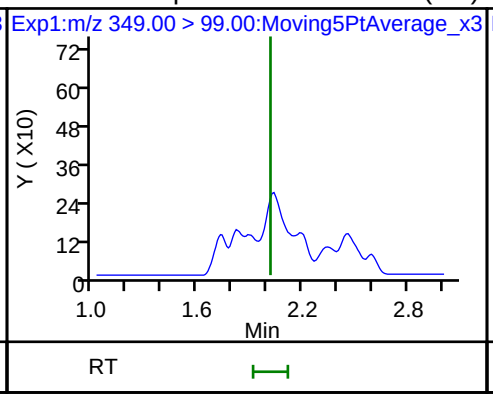
D 7 13C2 PFHxA



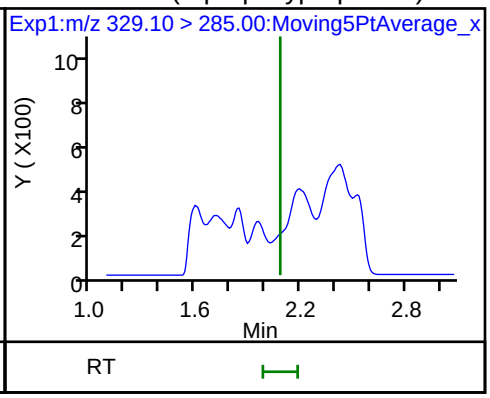
70 Perfluoropentanesulfonic acid (ND)



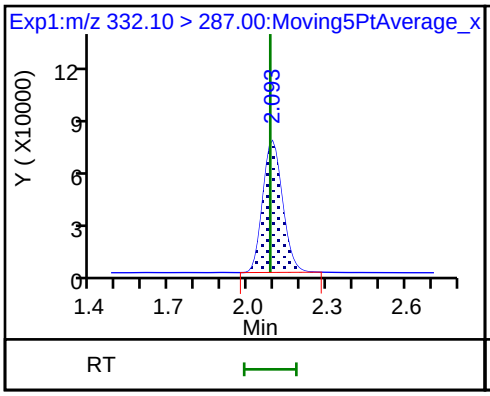
70 Perfluoropentanesulfonic acid (ND)



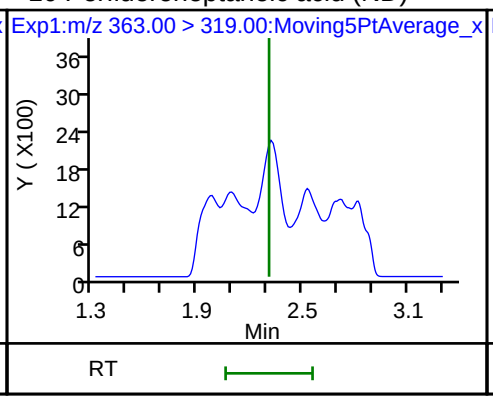
67 Perfluoro(2-propoxypropanoic) acid (ND)



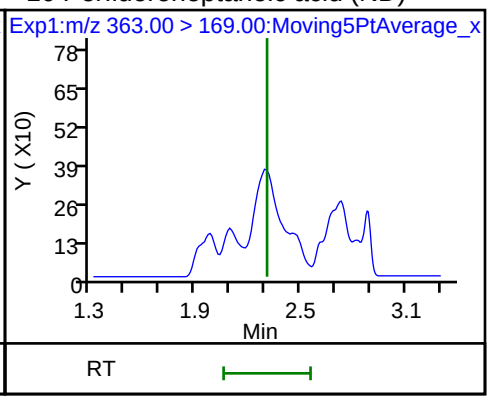
D 64 13C3 HFPO-DA



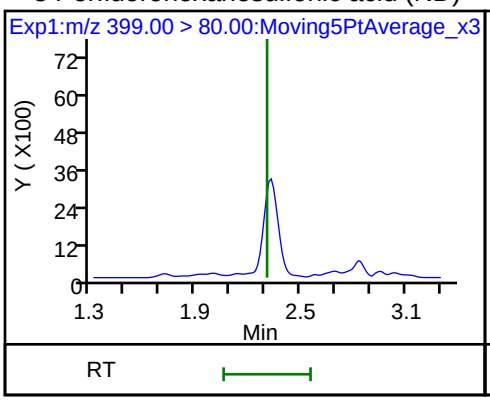
10 Perfluoroheptanoic acid (ND)



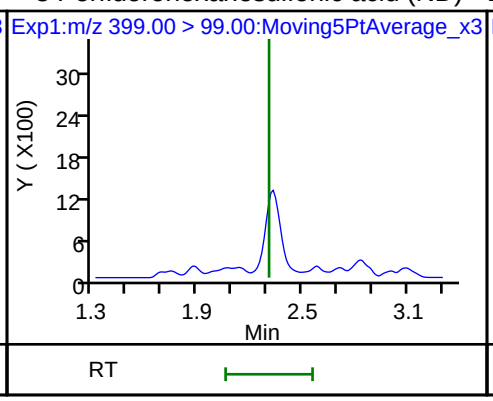
10 Perfluoroheptanoic acid (ND)



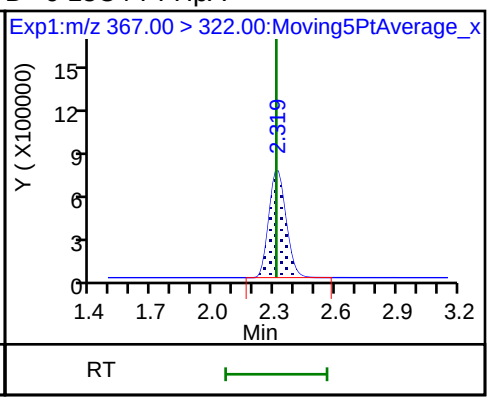
8 Perfluorohexanesulfonic acid (ND)



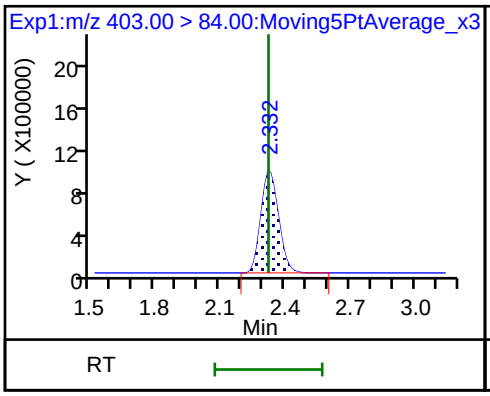
8 Perfluorohexanesulfonic acid (ND)



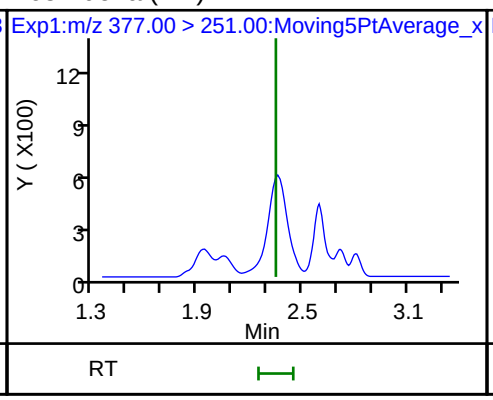
D 9 13C4-PFHpA



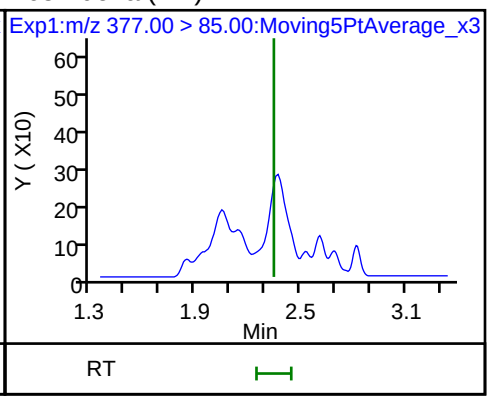
D 11 18O2 PFHxS



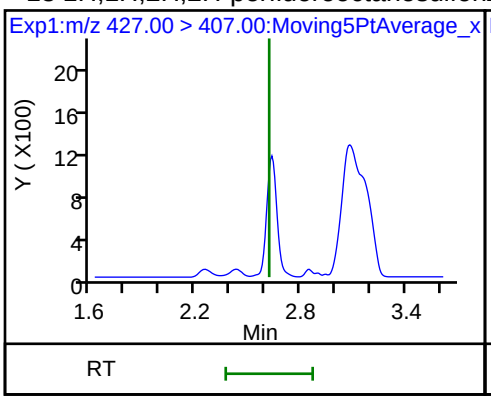
65 Adona (ND)



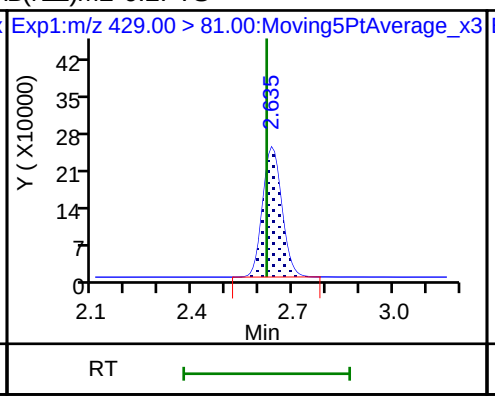
65 Adona (ND)



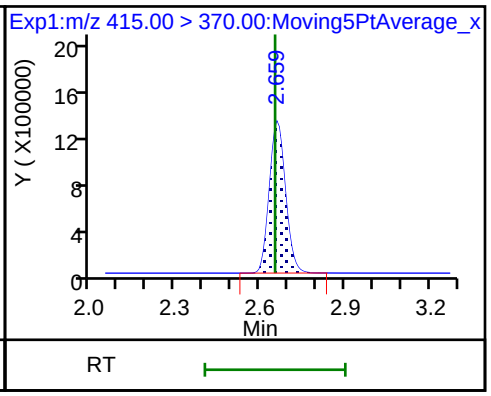
13 1H,1H,2H,2H-perfluorooctanesulfonic(NL2)M2-6:2FTS



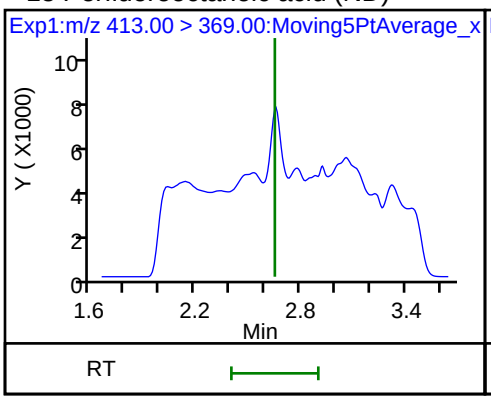
D 12



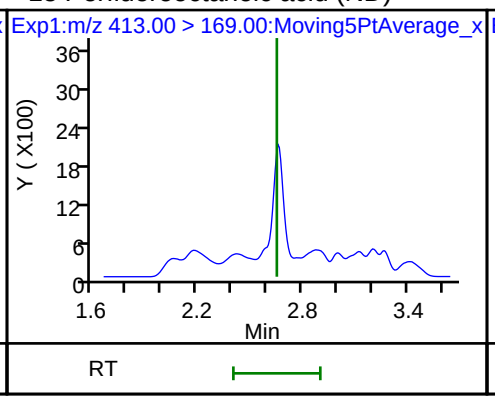
* 62 13C2-PFOA



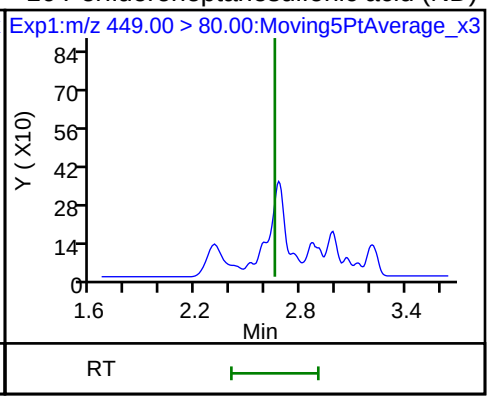
15 Perfluorooctanoic acid (ND)



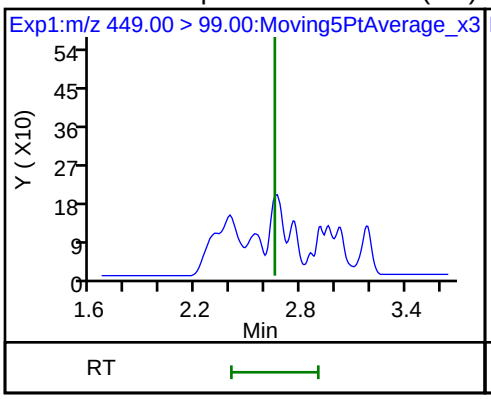
15 Perfluorooctanoic acid (ND)



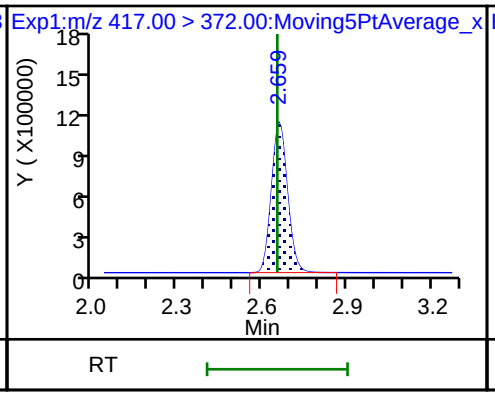
16 Perfluoroheptanesulfonic acid (ND)



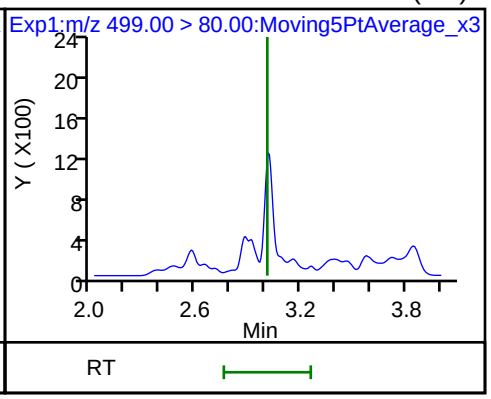
16 Perfluoroheptanesulfonic acid (ND)



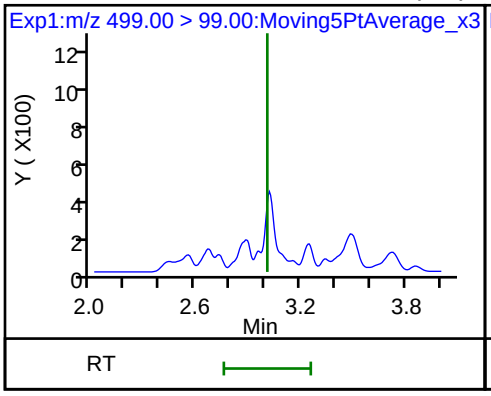
D 14 13C4 PFOA



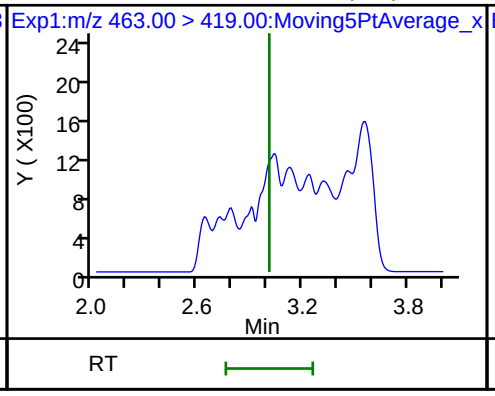
17 Perfluorooctane sulfonic acid (ND)



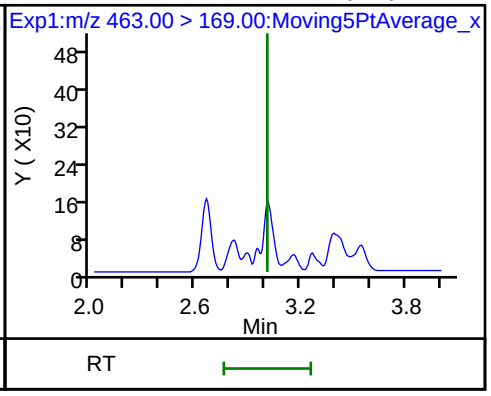
17 Perfluorooctane sulfonic acid (ND)



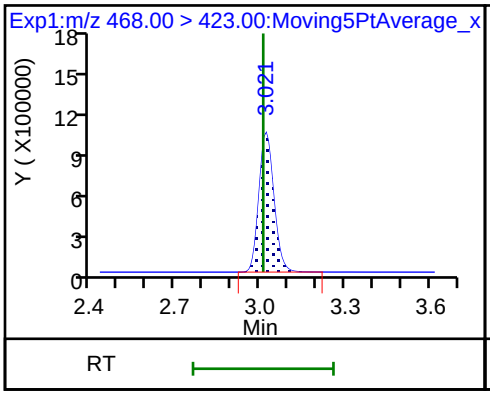
20 Perfluorononanoic acid (ND)



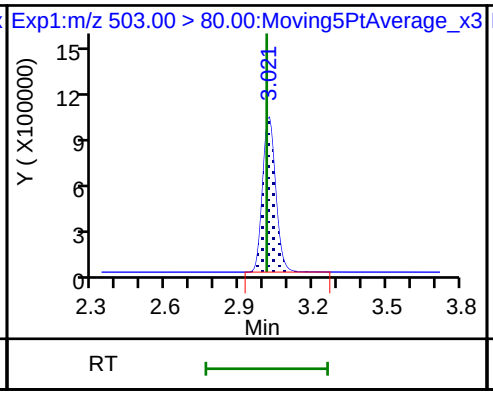
20 Perfluorononanoic acid (ND)



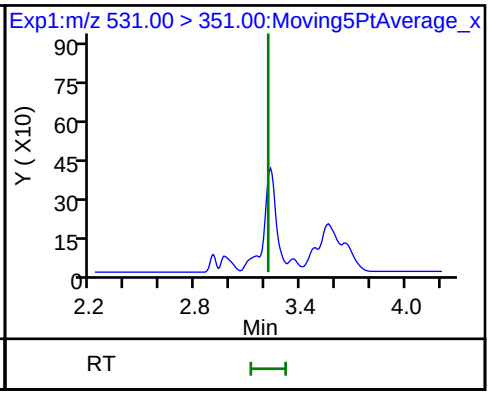
D 19 13C5 PFNA



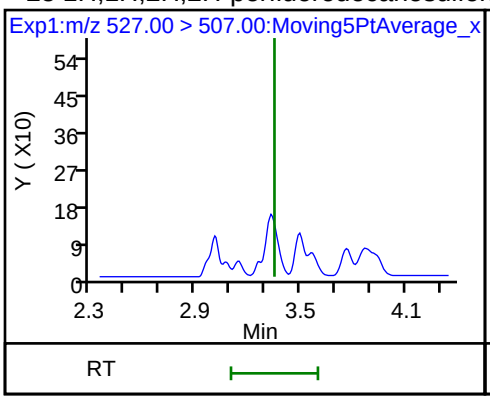
D 18 13C4 PFOS



69 9-Chlorohexadecafluoro-3-oxanonane (ND)

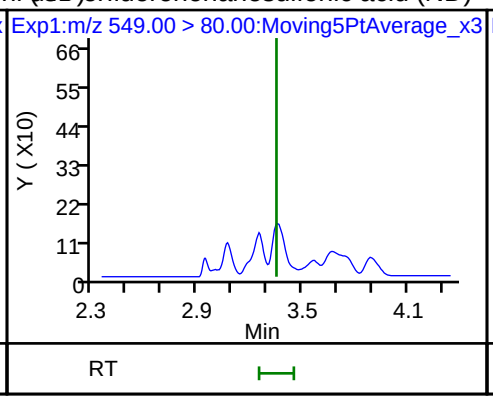


25 1H,1H,2H,2H-perfluorodecanesulfoni

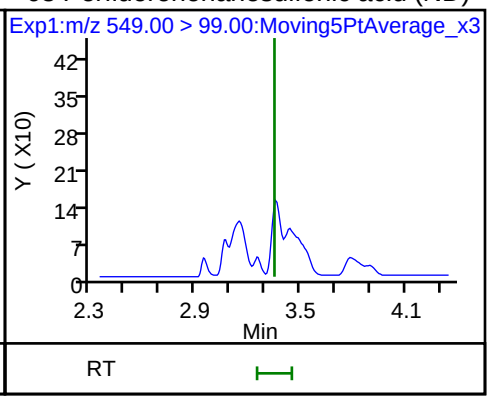


(ND)

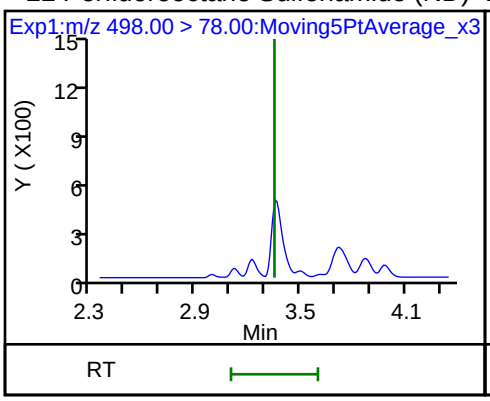
68 Perfluorononanesulfonic acid (ND)



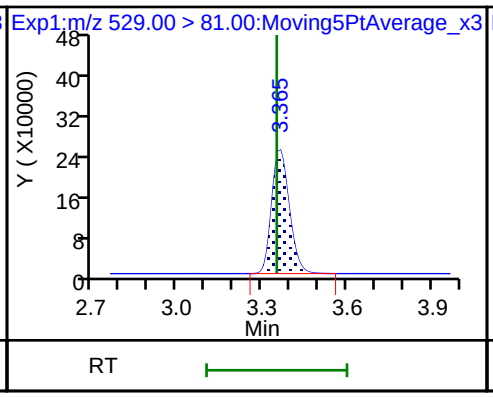
68 Perfluorononanesulfonic acid (ND)



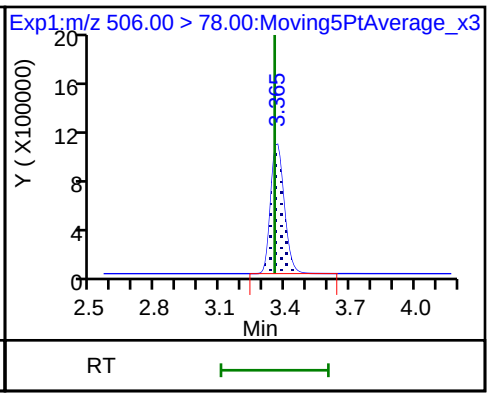
22 Perfluorooctane Sulfonamide (ND)



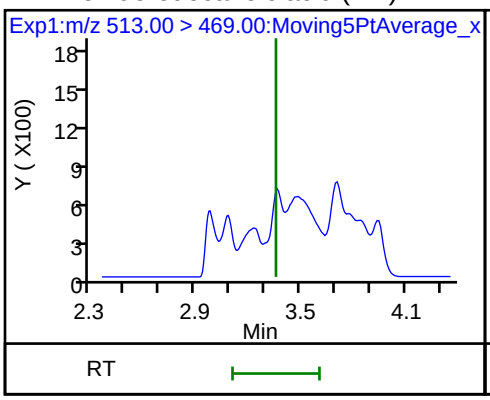
D 26 M2-8:2FTS



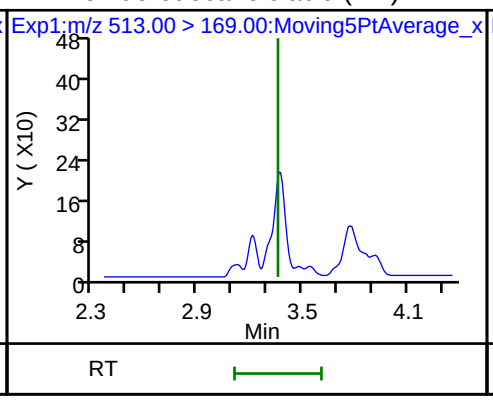
D 21 13C8 FOSA



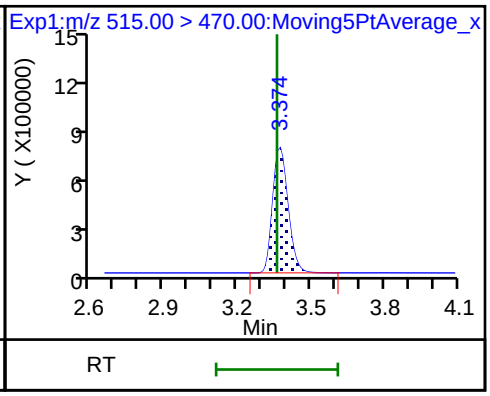
24 Perfluorodecanoic acid (ND)



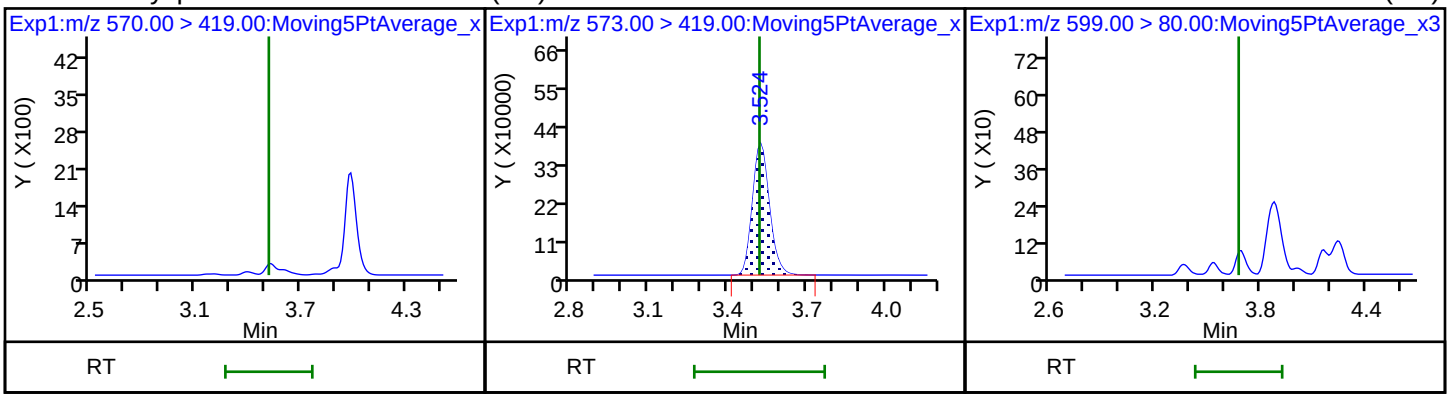
24 Perfluorodecanoic acid (ND)



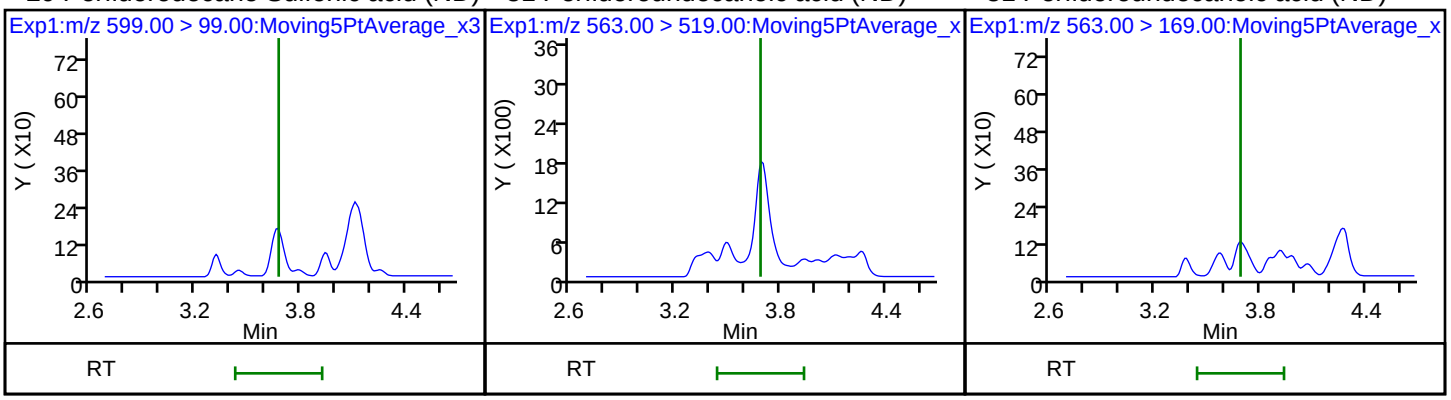
D 23 13C2 PFDA



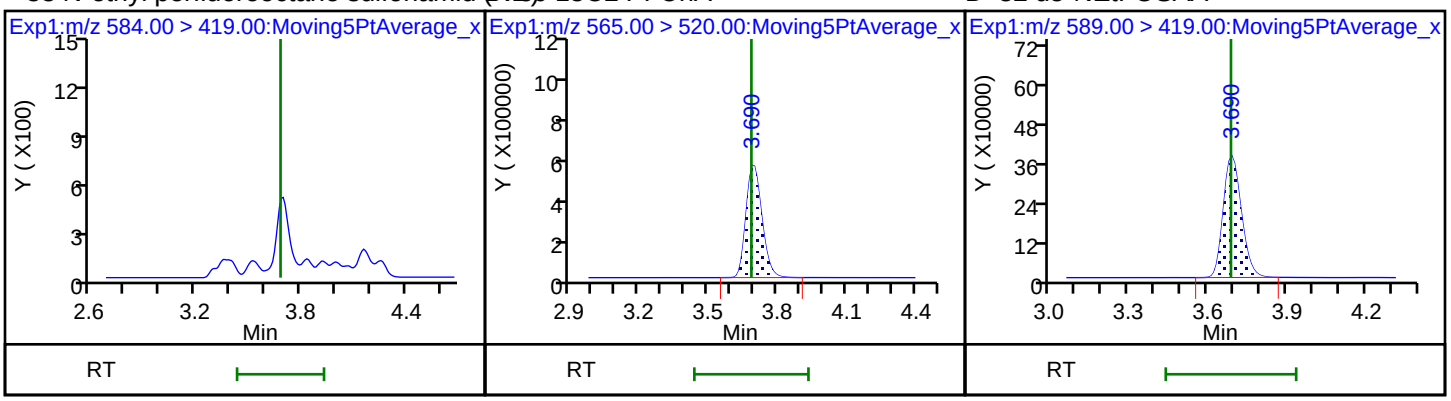
28 N-methyl perfluorooctane sulfonamid (ND) D 27 d3-NMeFOSAA 29 Perfluorodecane Sulfonic acid (ND)



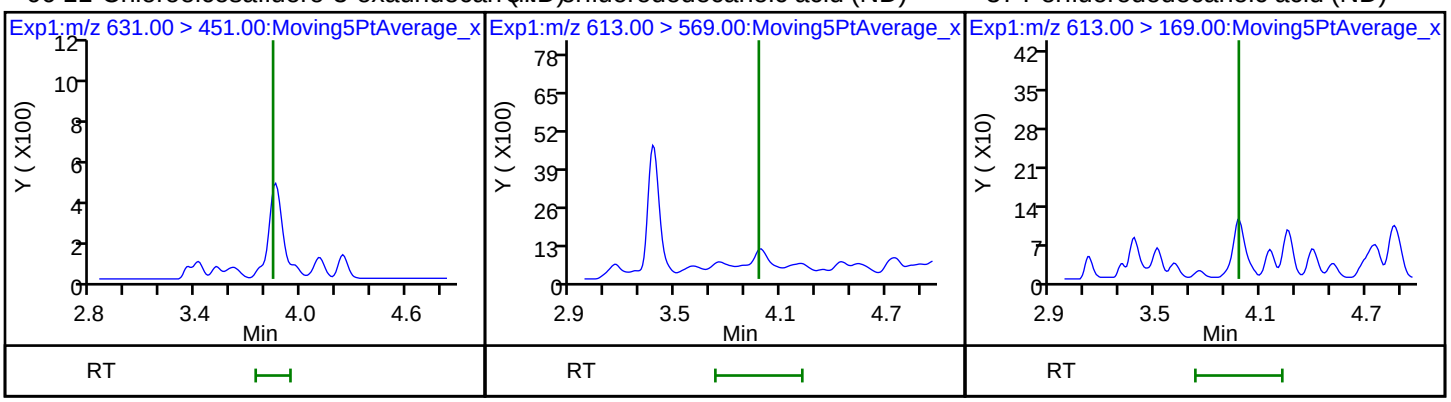
29 Perfluorodecane Sulfonic acid (ND) 31 Perfluoroundecanoic acid (ND) 31 Perfluoroundecanoic acid (ND)



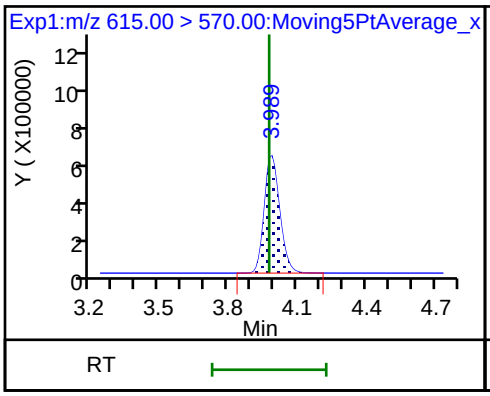
33 N-ethyl perfluorooctane sulfonamid (ND) D 30 13C2 PFUnA D 32 d5-NEtFOSAA



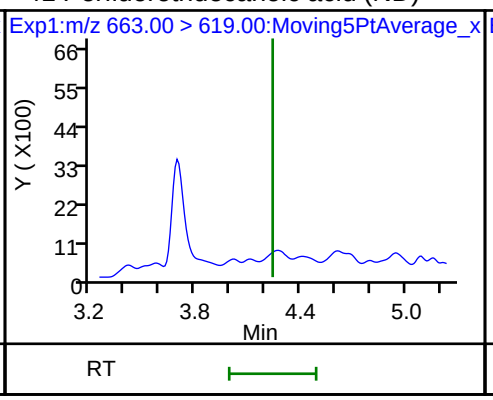
66 11-Chloroeicosafluoro-3-oxaundecan (ND) 36 Perfluorododecanoic acid (ND) 37 Perfluorododecanoic acid (ND)



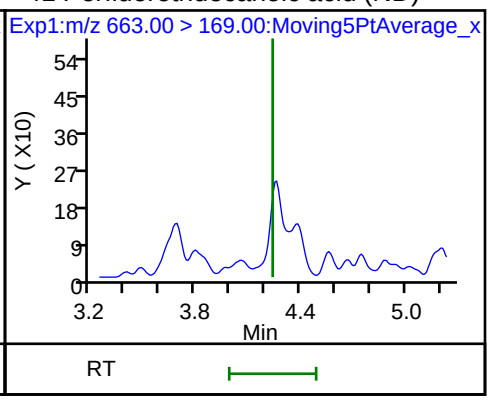
D 36 13C2 PFDoA



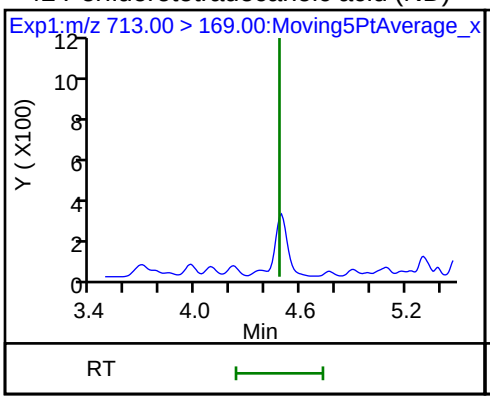
41 Perfluorotridecanoic acid (ND)



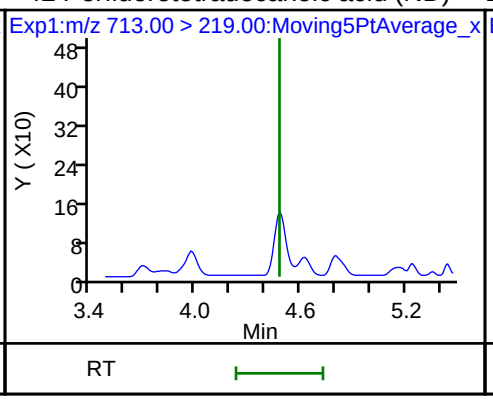
41 Perfluorotridecanoic acid (ND)



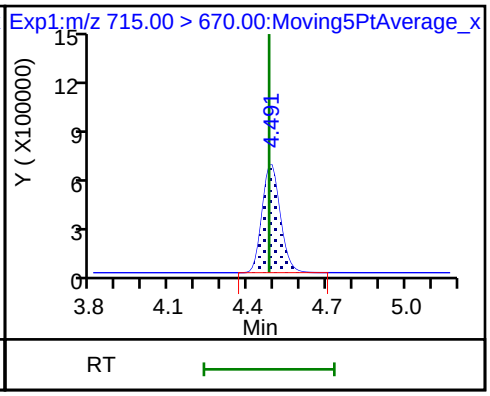
42 Perfluorotetradecanoic acid (ND)



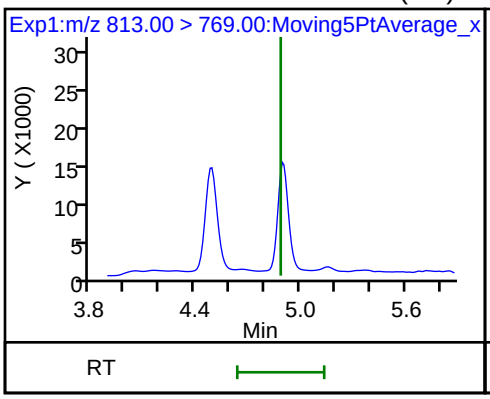
42 Perfluorotetradecanoic acid (ND)



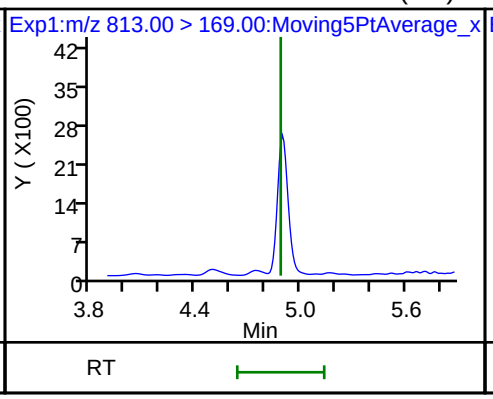
D 43 13C2-PFTeDA



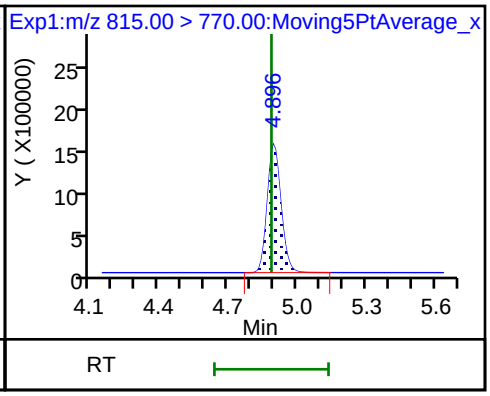
45 Perfluorohexadecanoic acid (ND)



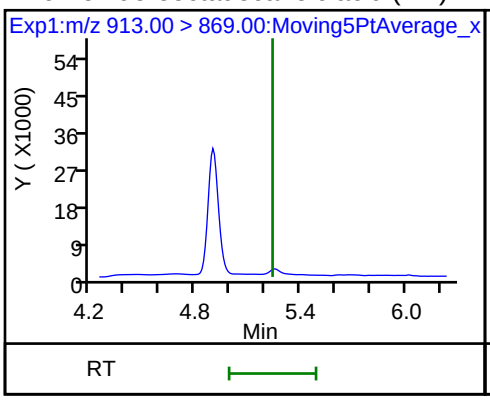
45 Perfluorohexadecanoic acid (ND)



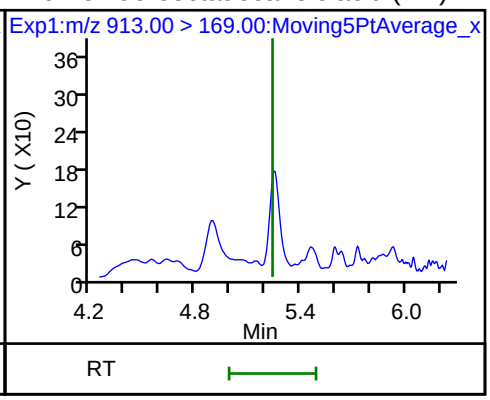
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid (ND)



46 Perfluorooctadecanoic acid (ND)



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

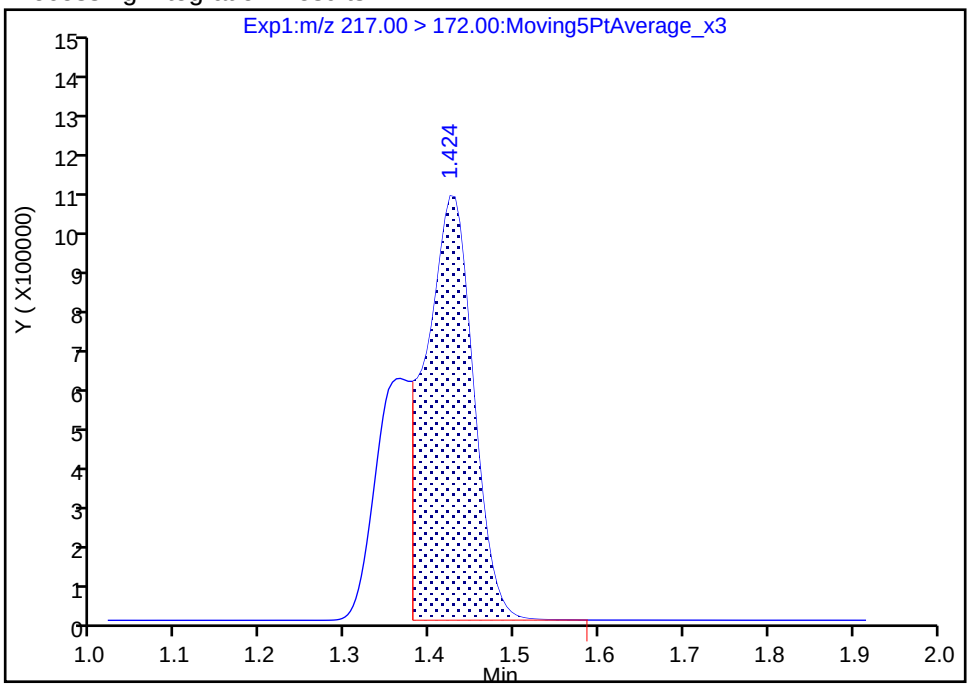
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_048.d
Injection Date: 11-Jul-2018 01:51:01 Instrument ID: A8_N
Lims ID: MB 320-232888/1-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 34 Worklist Smp#: 2
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

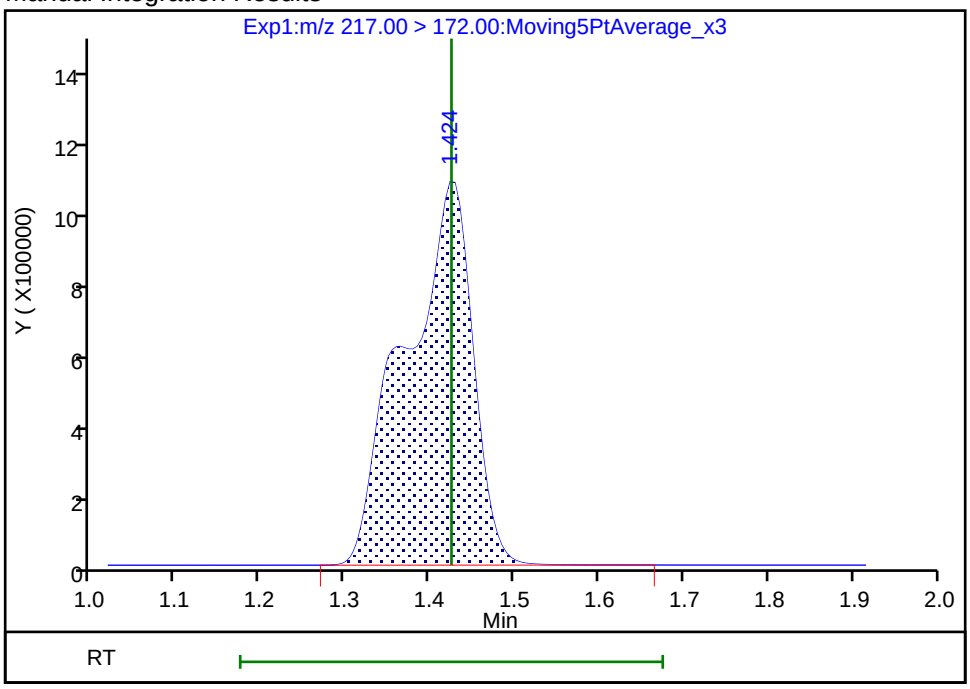
Processing Integration Results

RT: 1.42
Area: 4058637
Amount: 1.410279
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5808400
Amount: 2.018280
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:35:43
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-232888/2-A

Matrix: Water | Lab File ID: 2018.07.10LLB_049.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:58

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	37.3		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	38.4		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.9		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	37.4		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.1		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	40.3		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	37.6		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	36.5		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	38.4		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	33.0		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	37.6		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	35.6		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.8		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	41.0		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	37.9		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	35.6		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	40.0		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 320-232888/2-A

Matrix: Water | Lab File ID: 2018.07.10LLB_049.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 01:58

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		25-150
STL00992	13C4 PFBA	87		25-150
STL00993	13C2 PFHxA	87		25-150
STL00990	13C4 PFOA	90		25-150
STL00995	13C5 PFNA	91		25-150
STL00996	13C2 PFDA	93		25-150
STL00997	13C2 PFUnA	91		25-150
STL00998	13C2 PFDoA	88		25-150
STL00994	18O2 PFHxS	92		25-150
STL00991	13C4 PFOS	86		25-150
STL01892	13C4-PFHpA	93		25-150
STL01893	13C5 PFPeA	81		25-150
STL02337	13C3-PFBS	81		25-150
STL02116	13C2-PFTeDA	83		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Lims ID: LCS 320-232888/2-A
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2018 01:58:48 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcs 320-232888/2-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:37:24 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:37:24

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.430	1.425	0.005	1.004	2287503	0.9313		93.1	1040	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.425	1.425	0.0	0.535	6011686	2.17		86.9	22299	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.712	1.712	0.0	1.000	1898755	0.9605		96.0	1505	
D 3 13C5-PFPeA										
267.90 > 223.00	1.712	1.712	0.0	0.643	4149993	2.03		81.1	42213	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.757	1.748	0.009	1.005	2692474	0.8907		101	12249	
298.90 > 99.00	1.757	1.748	0.009	1.005	1113942		2.42(1.25-3.74)		9920	
D 47 13C3-PFBS										
301.90 > 83.00	1.748	1.748	0.0	0.657	92717	1.89		81.4	795	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.960	1.950	0.010	1.122	626895	1.00		107	29884	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.004	1.993	0.011	1.000	1887177	0.9723		97.2	4655	
313.00 > 119.00	2.004	1.993	0.011	1.000	172867		10.92(5.03-15.10)		2694	
D 7 13C2 PFHxA										
315.00 > 270.00	2.004	1.994	0.010	0.753	4765199	2.17		87.0	53124	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.027	2.016	0.011	1.160	2596774	1.00		107	41002	
349.00 > 99.00	2.016	2.016	0.0	1.153	938961		2.77(1.36-4.07)		17689	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.095	2.084	0.011	1.000	345360	0.8771		87.7	2647	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.095	2.084	0.011	0.787	428204	2.38		95.3	9115	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.321	2.308	0.013	1.000	1903794	0.9338		93.4	2520	
363.00 > 169.00	2.321	2.308	0.013	1.000	762187		2.50(1.13-3.40)		5749	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.321	2.308	0.013	0.994	2144744	0.8449		92.9	16062	
399.00 > 99.00	2.334	2.308	0.026	1.000	728623		2.94(1.50-4.49)		4449	
D 9 13C4-PFHpA										
367.00 > 322.00	2.321	2.309	0.012	0.872	4511812	2.32		92.7	48778	
D 11 18O2 PFHxS										
403.00 > 84.00	2.334	2.322	0.012	0.877	5191986	2.17		91.7	53375	
65 Adona										
377.00 > 251.00	2.360	2.347	0.013	0.780	5465286	1.00		100	33782	
377.00 > 85.00	2.360	2.347	0.013	0.780	3296501		1.66(0.84-2.53)		31114	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.637	2.620	0.017	1.000	593835	0.9437		99.5	3313	
D 12 M2-6:2FTS										
429.00 > 81.00	2.637	2.621	0.016	0.991	954050	2.18		91.9	10884	
* 62 13C2-PFOA										
415.00 > 370.00	2.661	2.652	0.009		4997419	2.50			43833	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.661	2.652	0.009	1.000	1994354	0.9786		97.8	710	
413.00 > 169.00	2.661	2.652	0.009	1.000	1050865		1.90(0.84-2.52)		5049	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.669	2.652	0.017	0.882	2015775	1.03		108	25995	
449.00 > 99.00	2.669	2.652	0.017	0.882	507131		3.97(1.94-5.82)		10717	
D 14 13C4 PFOA										
417.00 > 372.00	2.661	2.653	0.008	1.000	4296558	2.25		90.1	43635	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.009	0.017	1.000	1623988	0.9470		102	16846	
499.00 > 99.00	3.026	3.009	0.017	1.000	340908		4.76(2.31-6.93)		7959	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.009	0.017	1.000	1596722	1.01		101	3896	
463.00 > 169.00	3.026	3.009	0.017	1.000	393888		4.05(1.90-5.69)		21328	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.010	0.016	1.137	3674299	2.27		90.7	34210	
D 18 13C4 PFOS										
503.00 > 80.00	3.026	3.010	0.016	1.137	3508543	2.05		85.9	28811	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.214	0.019	1.069	2541620	0.9158		98.3	41585	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.370	3.350	0.020	1.000	554847	0.8734		91.2	10566	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.350	0.011	1.111	1143769	0.9588		99.9	17774	
549.00 > 99.00	3.361	3.350	0.011	1.111	436010		2.62(1.33-3.97)		14474	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.350	0.020	1.000	1871618	1.00		99.9	19543	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.351	0.019	1.267	1151689	2.37		99.0	18655	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.370	3.351	0.019	1.267	4724039	1.99		79.6	46786	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.380	3.359	0.021	1.000	1269953	0.9405		94.1	4956	
513.00 > 169.00	3.380	3.359	0.021	1.000	225555		5.63(2.36-7.09)		4612	
D 23 13C2 PFDA										
515.00 > 470.00	3.380	3.361	0.019	1.270	3238660	2.32		92.7	32408	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.518	0.011	1.000	696356	0.9743		97.4	4415	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.519	0.010	1.326	1736121	2.11		84.3	18444	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.675	0.012	1.219	939229	0.8892		92.2	22062	
599.00 > 99.00	3.687	3.675	0.012	1.219	323761		2.90(1.39-4.16)		9810	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.685	0.013	1.000	825776	0.9128		91.3	3700	
563.00 > 169.00	3.698	3.685	0.013	1.000	209990		3.93(2.12-6.36)		6282	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.685	0.013	1.000	628788	0.9171		91.7	15366	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.390	2660574	2.27		90.6	46114	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.687	0.011	1.390	1900933	2.34		93.5	13609	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.842	0.013	1.274	4183699	0.9882		105	44048	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.975	0.013	1.000	1173848	0.9596		96.0	1391	
613.00 > 169.00	3.988	3.975	0.013	1.000	281513		4.17(2.13-6.40)		5365	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.977	0.011	1.499	2775273	2.21		88.2	13944	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.252	4.240	0.012	1.066	1122991	0.8241		82.4	1320	
663.00 > 169.00	4.252	4.240	0.012	1.066	366454		3.06(1.25-3.76)		6243	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.490	4.479	0.011	1.000	322800	0.9405		94.1	4023	
713.00 > 219.00	4.490	4.479	0.011	1.000	227938		1.42(0.71-2.13)		5291	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.480	0.010	1.687	3168859	2.07		82.6	12008	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.886	0.010	1.000	2108810	0.9121		91.2	1069	
813.00 > 169.00	4.896	4.886	0.010	1.000	358557		5.88(2.86-8.58)		3574	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.840	5936191	2.09		83.7	10946	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.239	0.008	1.072	2649630	0.9586		95.9	957	
913.00 > 169.00	5.247	5.239	0.008	1.072	322625		8.21(3.83-11.48)		3601	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:37:26 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d

Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N

Lims ID: LCS 320-232888/2-A

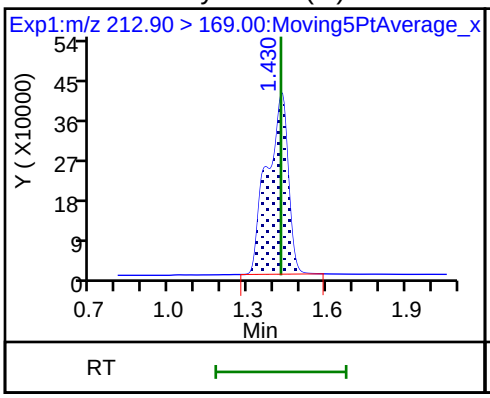
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3

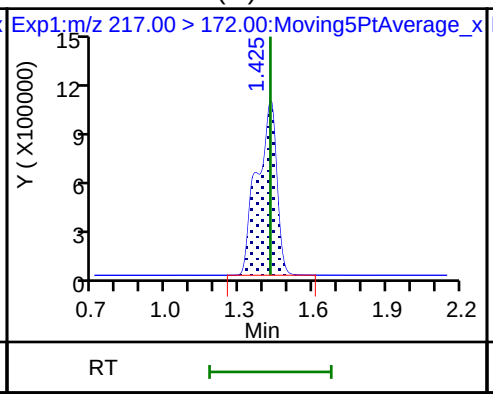
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

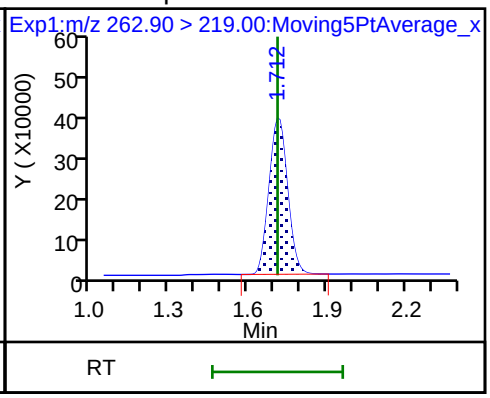
2 Perfluorobutyric acid (M)



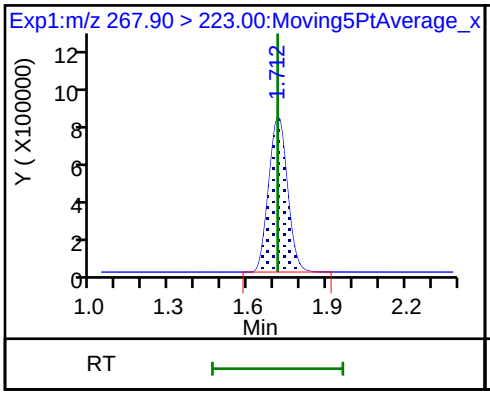
D 1 13C4 PFBA (M)



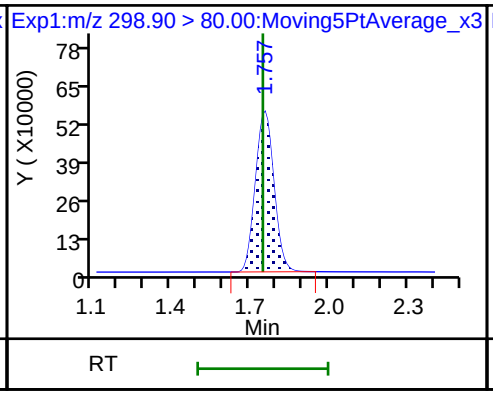
4 Perfluoropentanoic acid



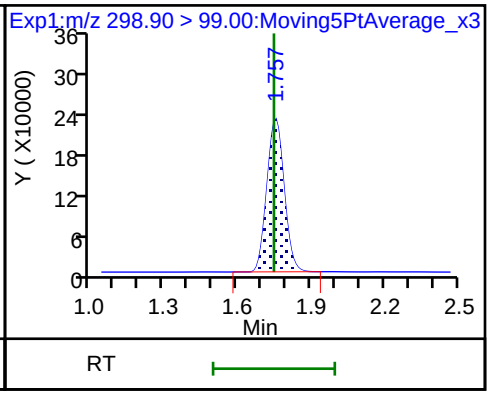
D 3 13C5-PFPeA



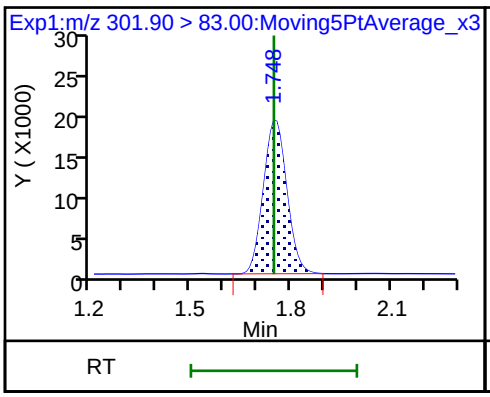
5 Perfluorobutanesulfonic acid



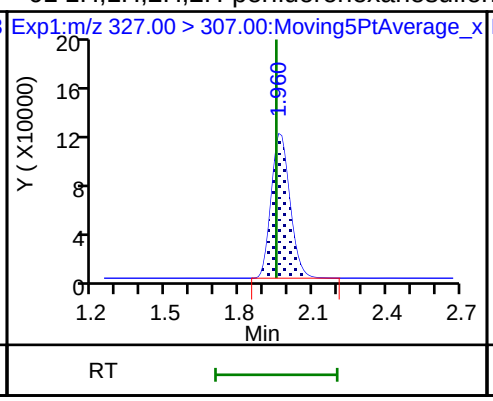
5 Perfluorobutanesulfonic acid



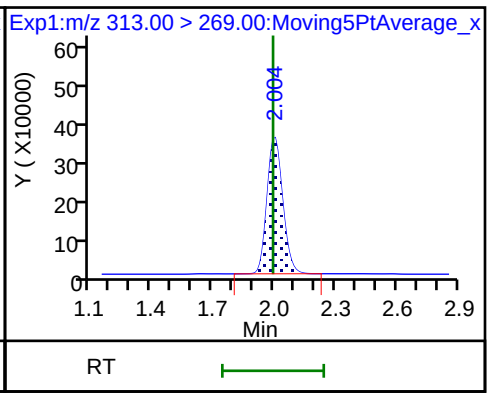
D 47 13C3-PFBS



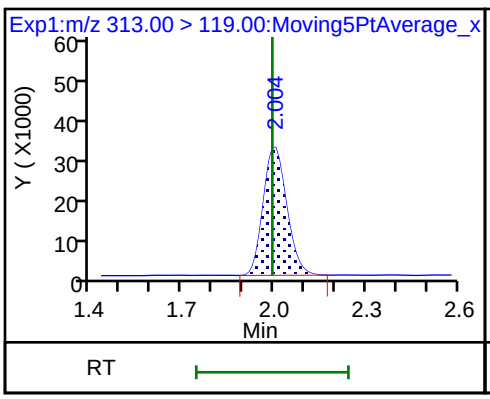
61 1H,1H,2H,2H-perfluorohexanesulfoni



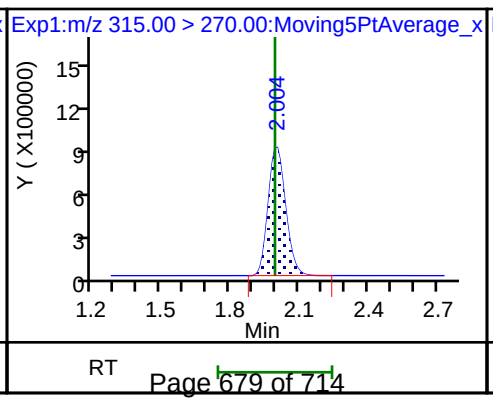
6 Perfluorohexanoic acid



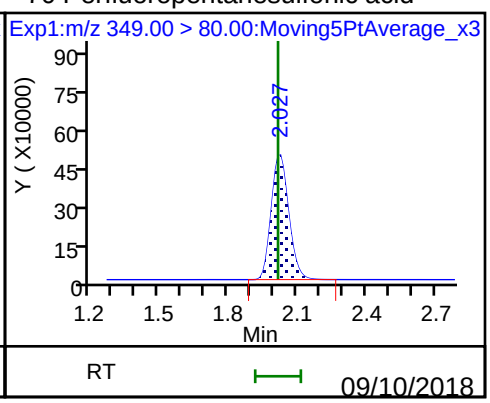
6 Perfluorohexanoic acid



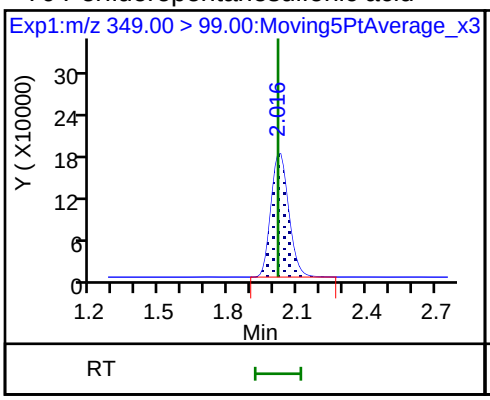
D 7 13C2 PFHxA



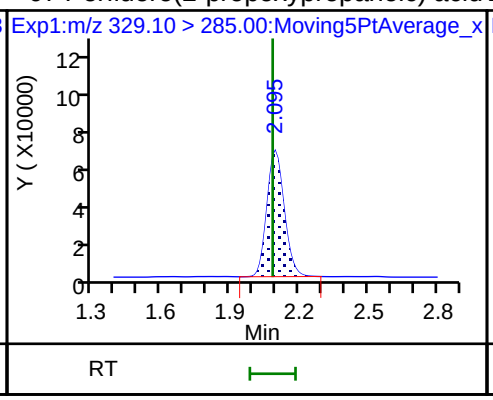
70 Perfluoropentanesulfonic acid



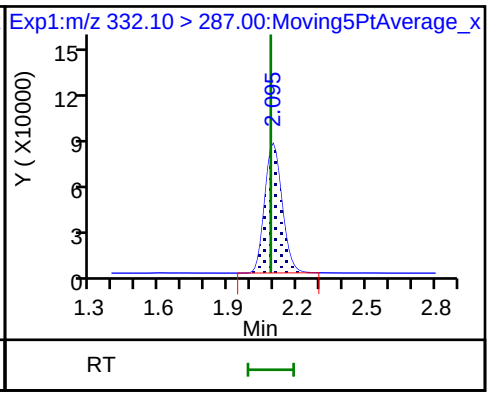
70 Perfluoropentanesulfonic acid



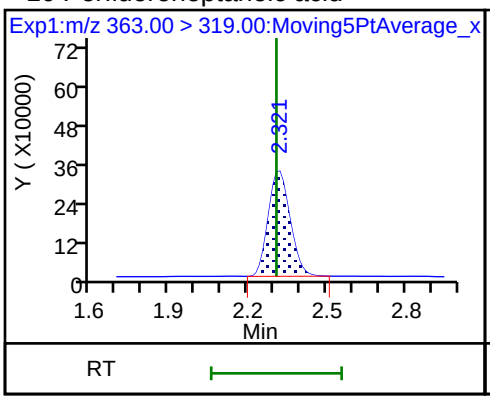
67 Perfluoro(2-propoxypropanoic) acid



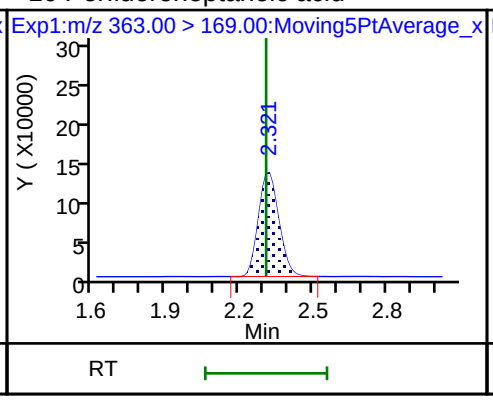
D 64 13C3 HFPO-DA



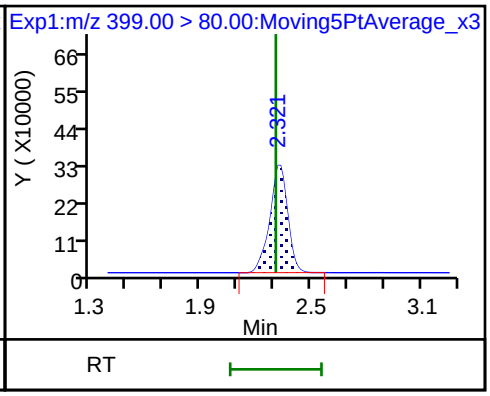
10 Perfluoroheptanoic acid



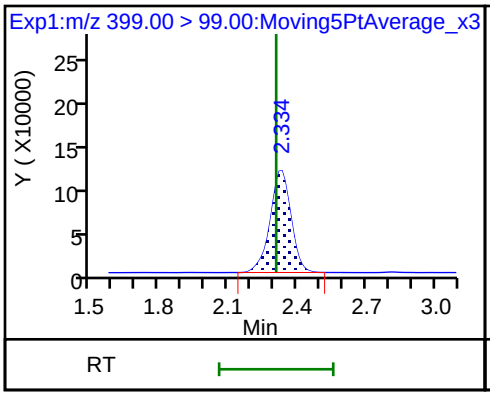
10 Perfluoroheptanoic acid



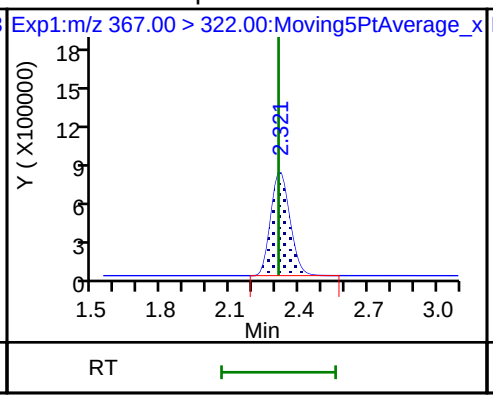
8 Perfluorohexanesulfonic acid



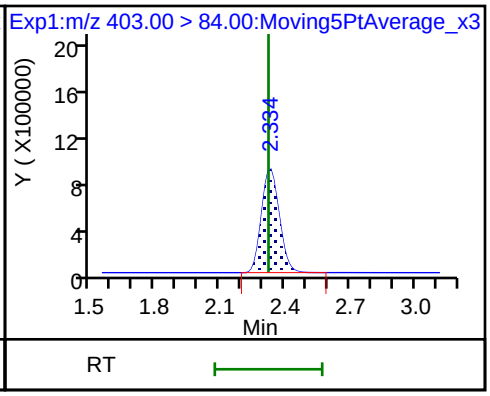
8 Perfluorohexanesulfonic acid



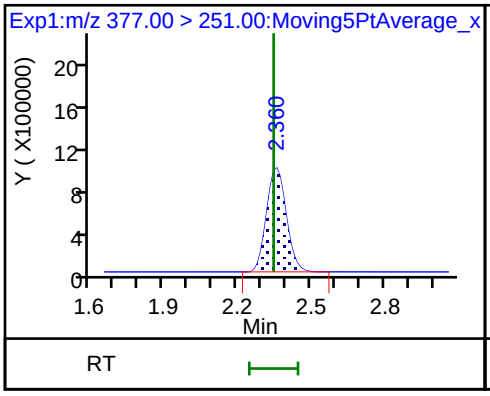
D 9 13C4-PFHpA



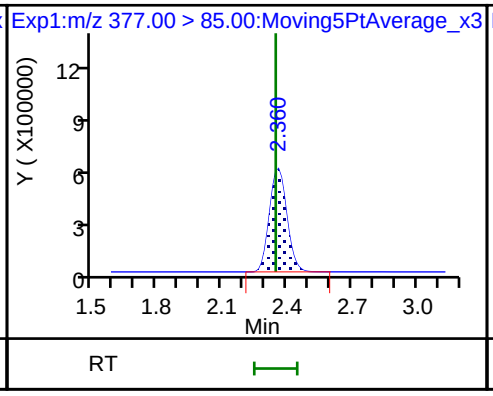
D 11 18O2 PFHxS



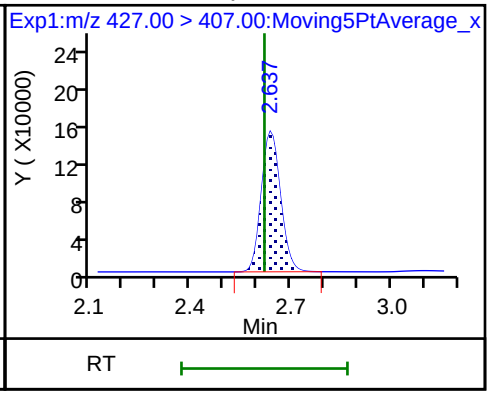
65 Adona



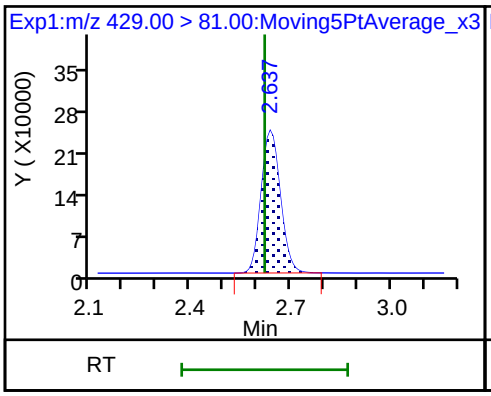
65 Adona



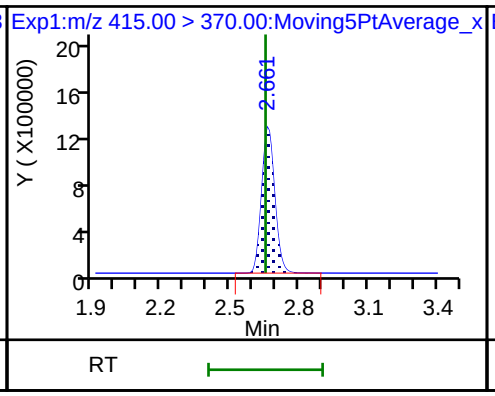
13 1H,1H,2H,2H-perfluorooctanesulfoni



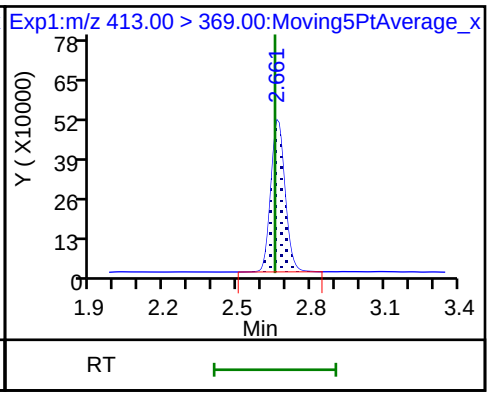
D 12 M2-6:2FTS



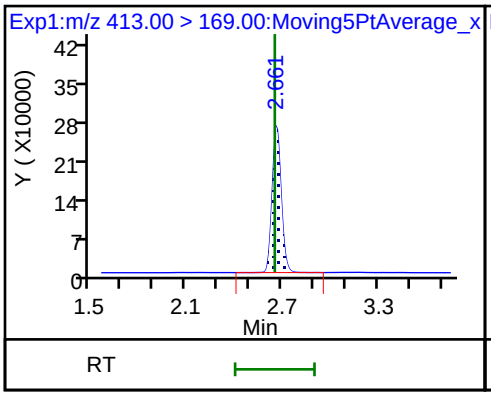
* 62 13C2-PFOA



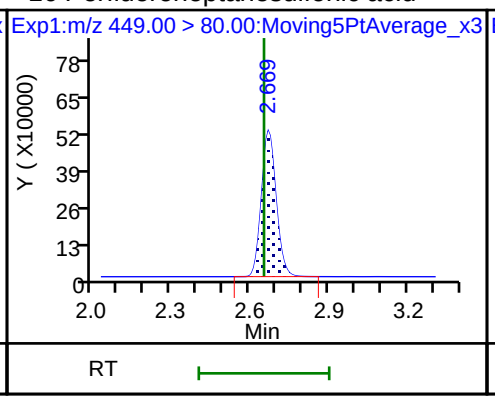
15 Perfluorooctanoic acid



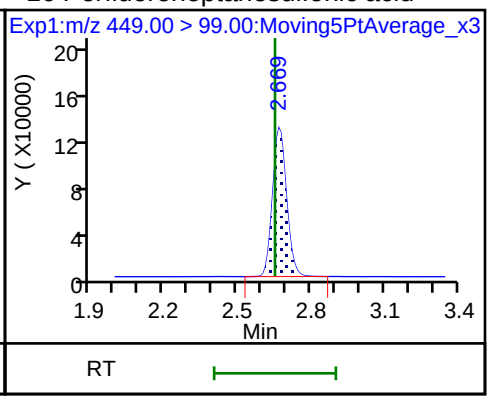
15 Perfluorooctanoic acid



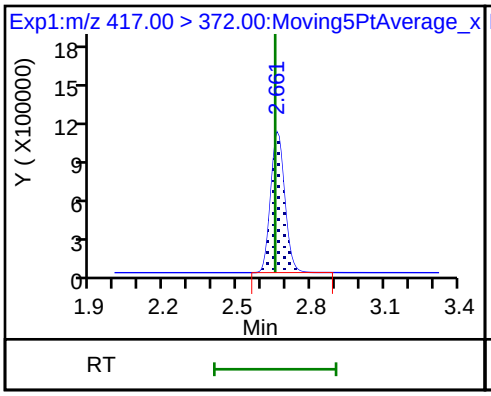
16 Perfluoroheptanesulfonic acid



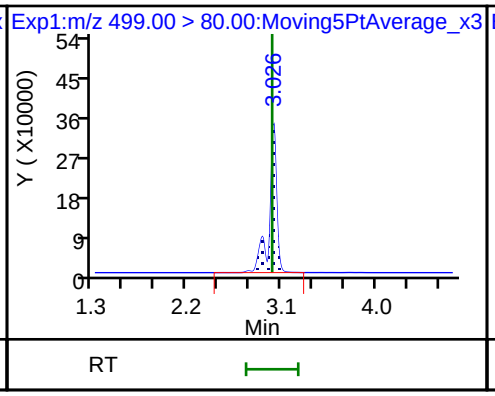
16 Perfluoroheptanesulfonic acid



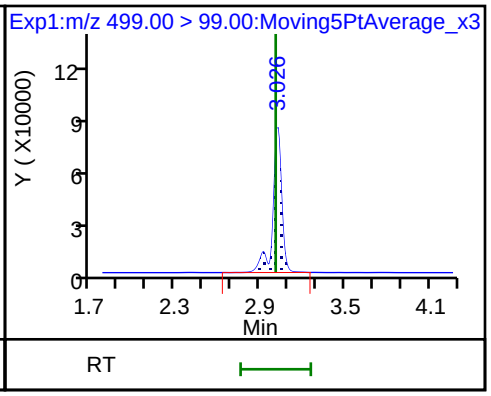
D 14 13C4 PFOA



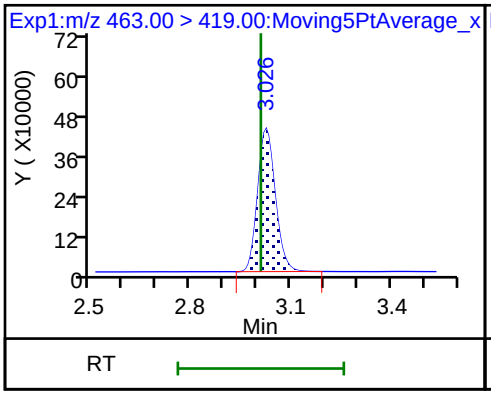
17 Perfluorooctane sulfonic acid



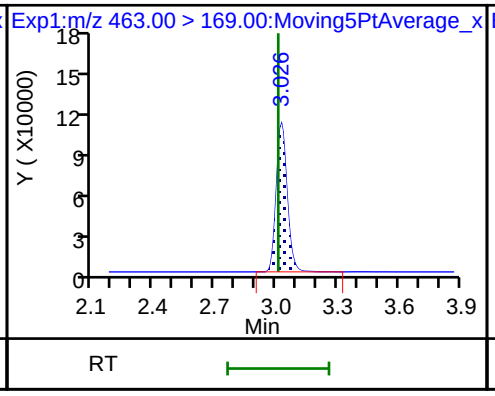
17 Perfluorooctane sulfonic acid



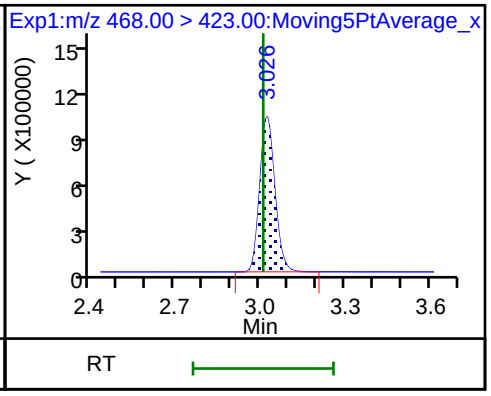
20 Perfluorononanoic acid



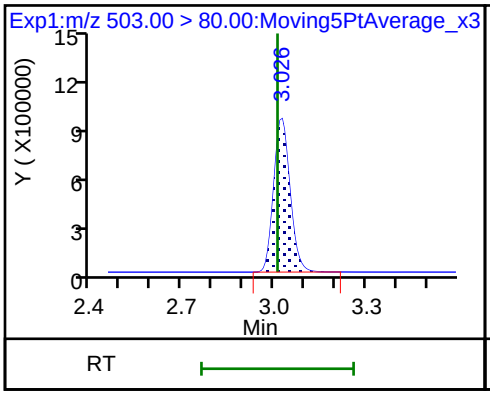
20 Perfluorononanoic acid



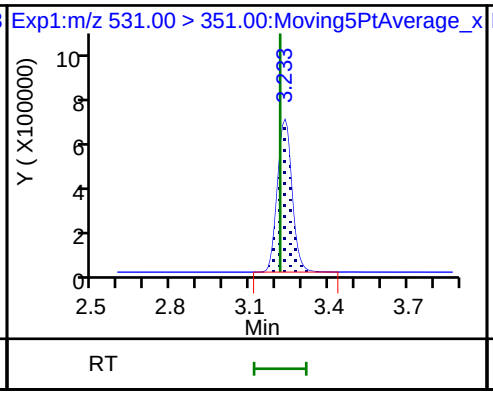
D 19 13C5 PFNA



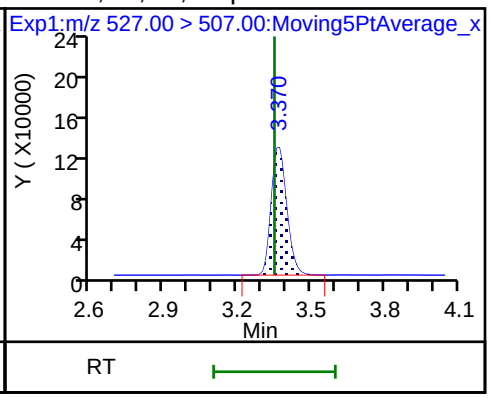
D 18 13C4 PFOS



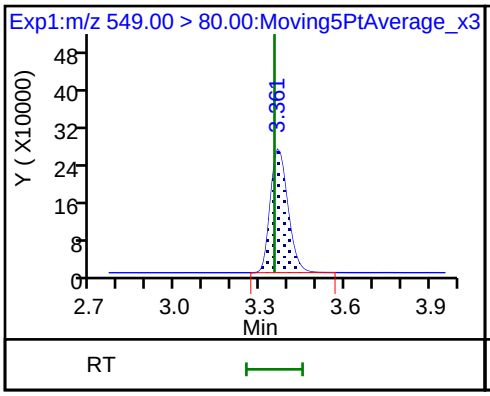
69 9-Chlorohexadecafluoro-3-oxanonane



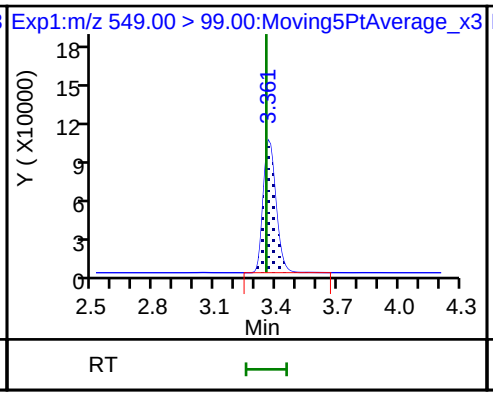
25 1H,1H,2H,2H-perfluorodecanesulfoni



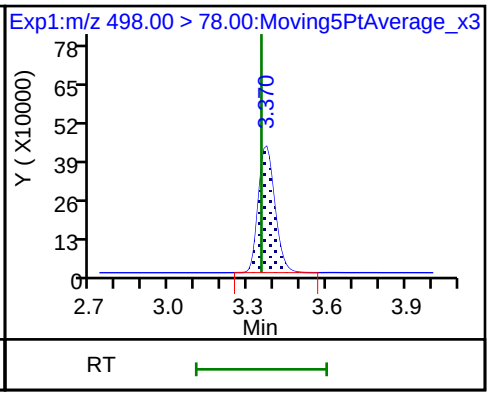
68 Perfluorononanesulfonic acid



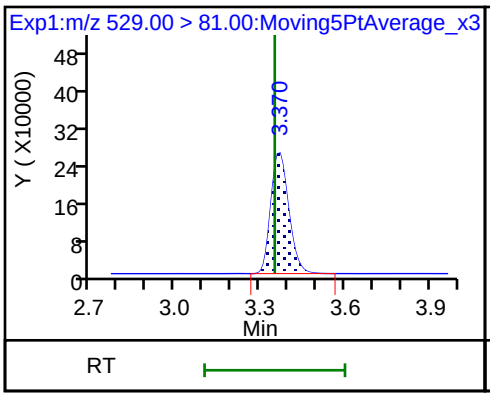
68 Perfluorononanesulfonic acid



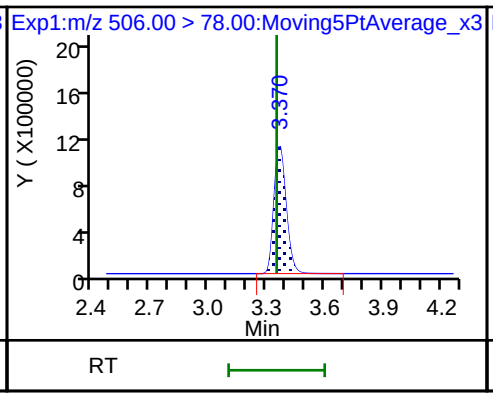
22 Perfluorooctane Sulfonamide



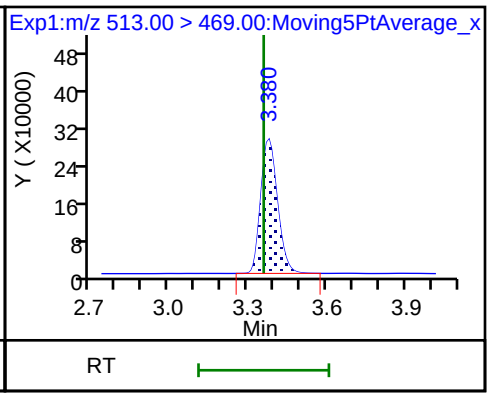
D 26 M2-8:2FTS



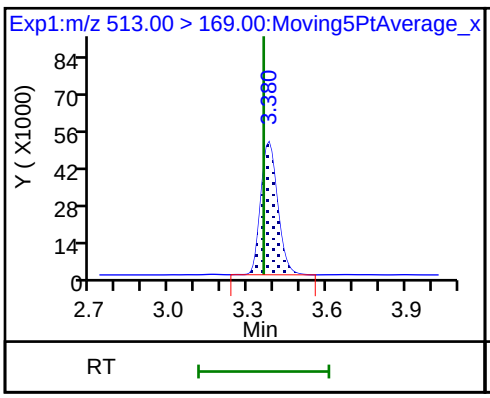
D 21 13C8 FOSA



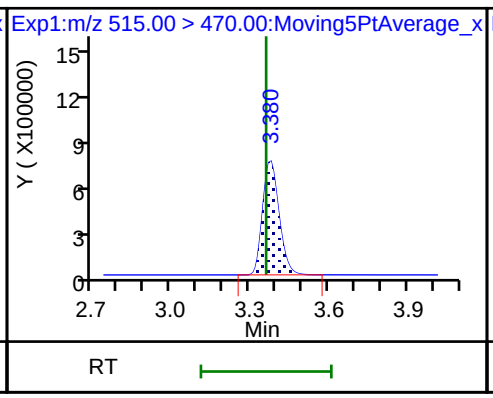
24 Perfluorodecanoic acid



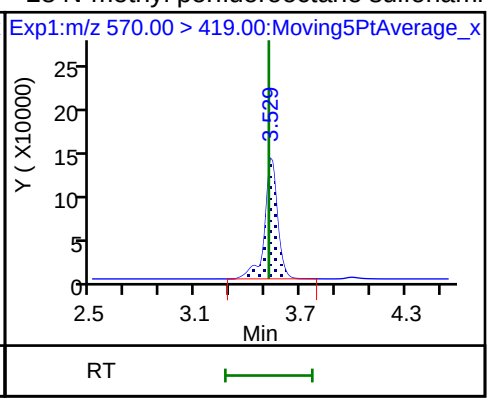
24 Perfluorodecanoic acid



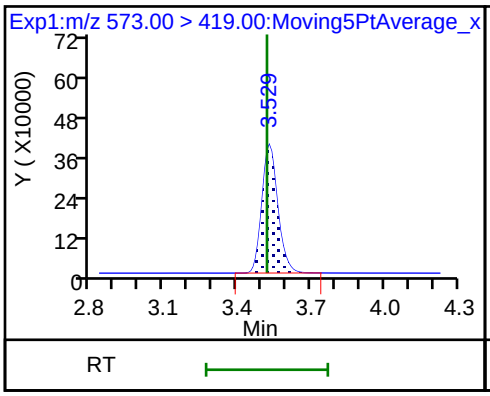
D 23 13C2 PFDA



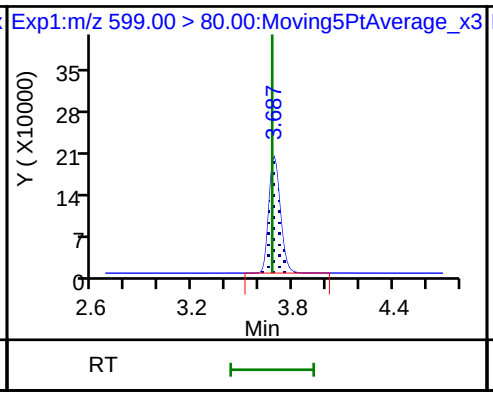
28 N-methyl perfluorooctane sulfonami



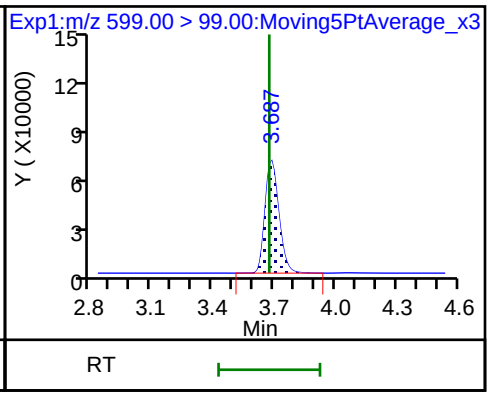
D 27 d3-NMeFOSAA



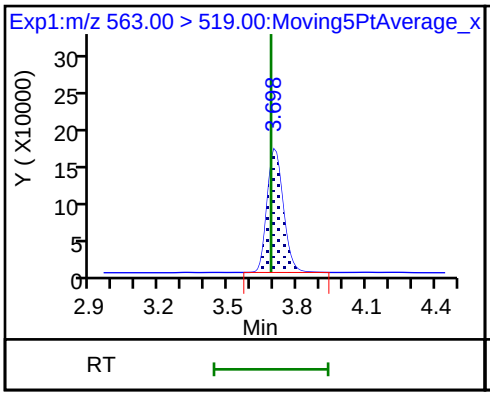
29 Perfluorodecane Sulfonic acid



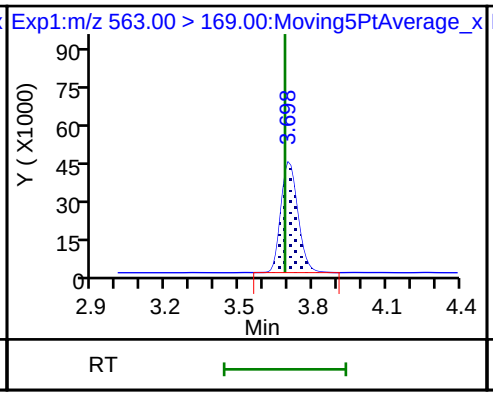
29 Perfluorodecane Sulfonic acid



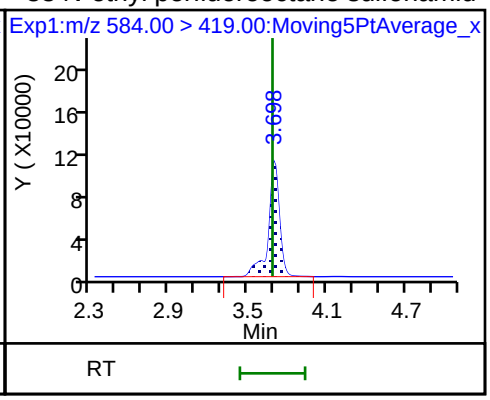
31 Perfluoroundecanoic acid



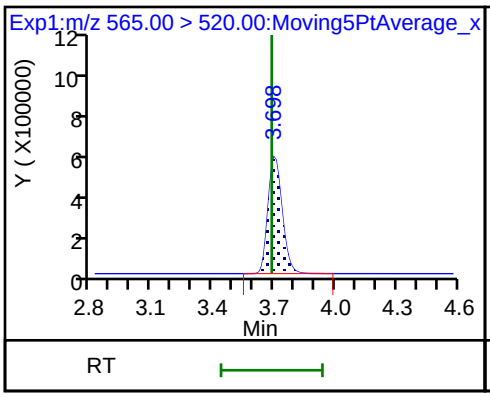
31 Perfluoroundecanoic acid



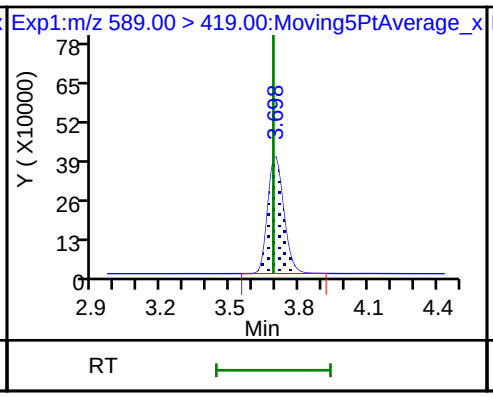
33 N-ethyl perfluorooctane sulfonamid



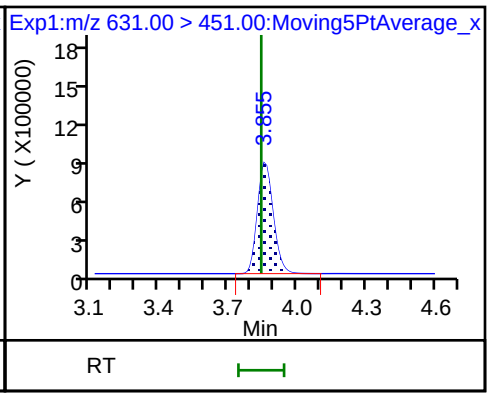
D 30 13C2 PFUnA



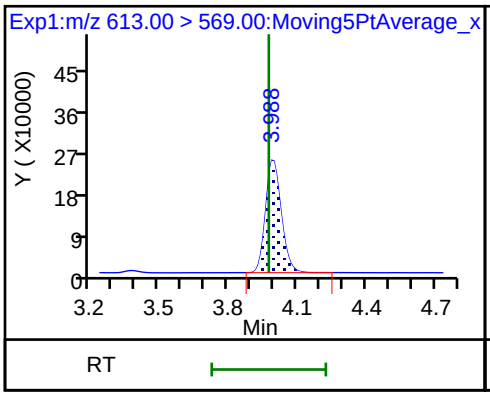
D 32 d5-NEtFOSAA



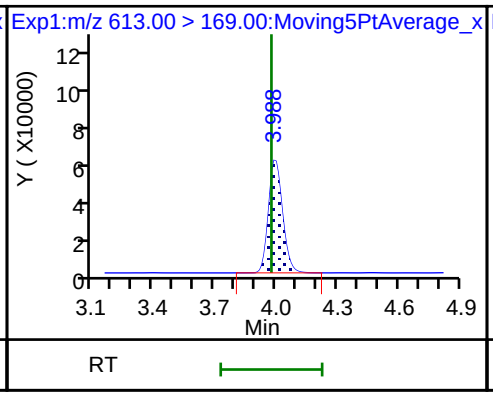
66 11-Chloroeicosafluoro-3-oxaundecan



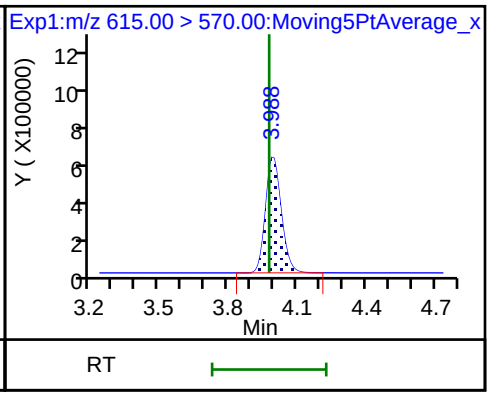
37 Perfluorododecanoic acid



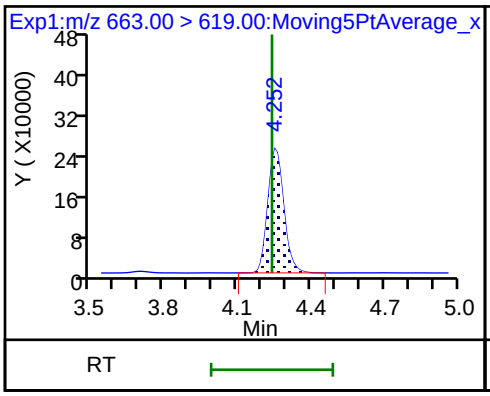
37 Perfluorododecanoic acid



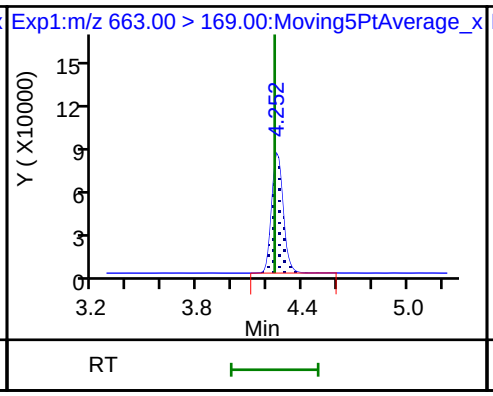
D 36 13C2 PFDoA



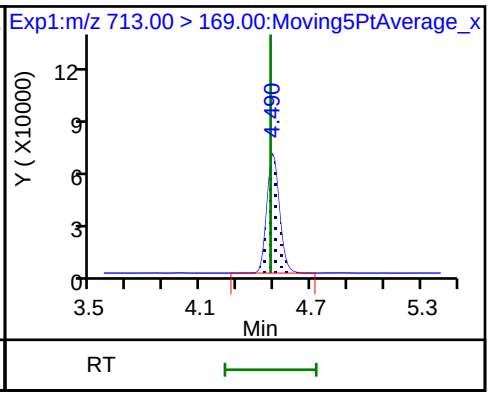
41 Perfluorotridecanoic acid



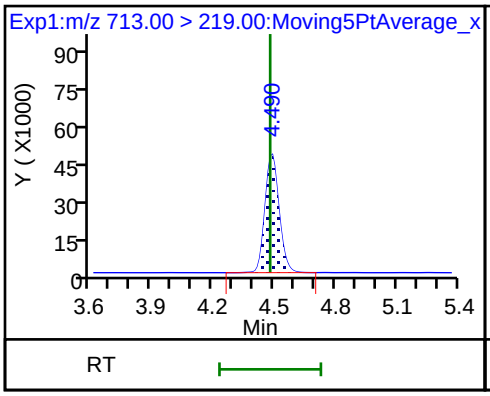
41 Perfluorotridecanoic acid



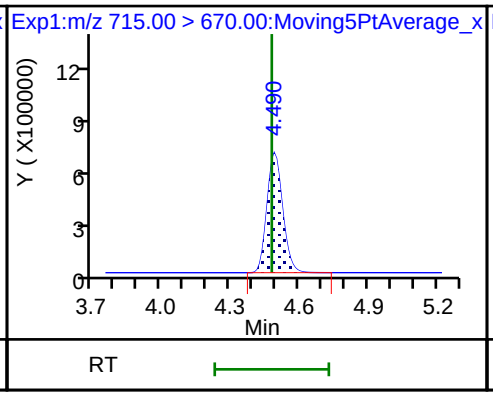
42 Perfluorotetradecanoic acid



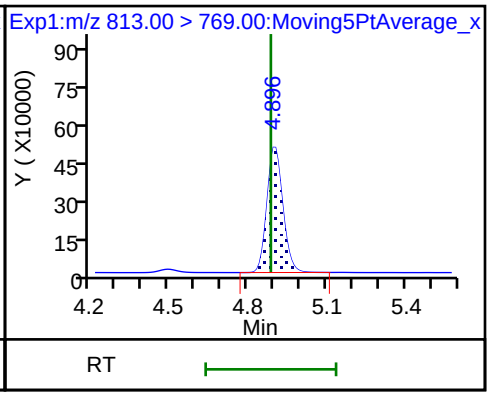
42 Perfluorotetradecanoic acid



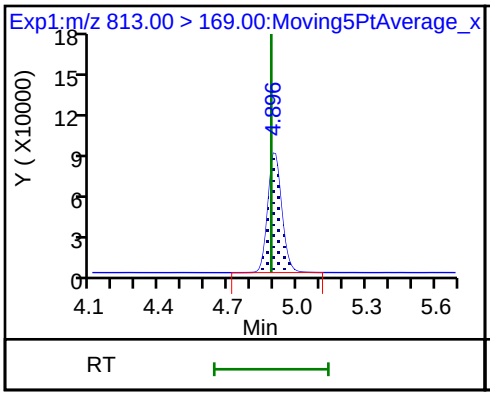
D 43 13C2-PFTeDA



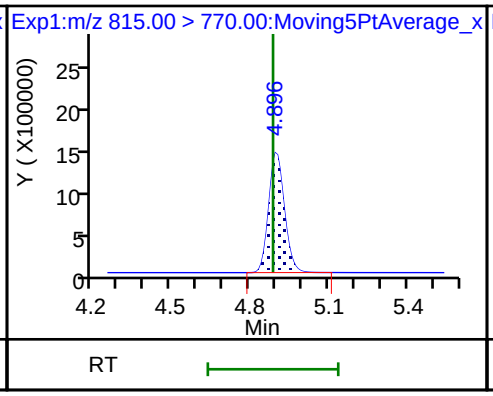
45 Perfluorohexadecanoic acid



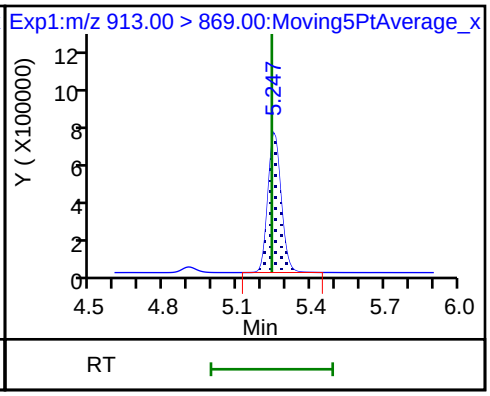
45 Perfluorohexadecanoic acid



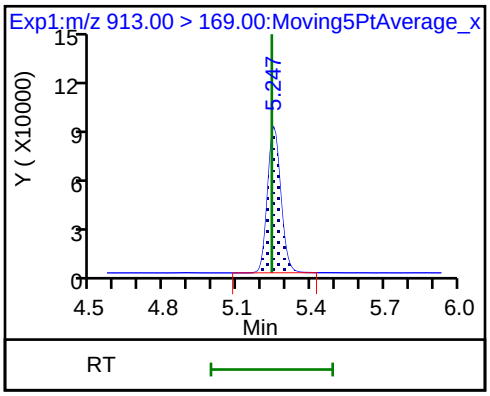
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

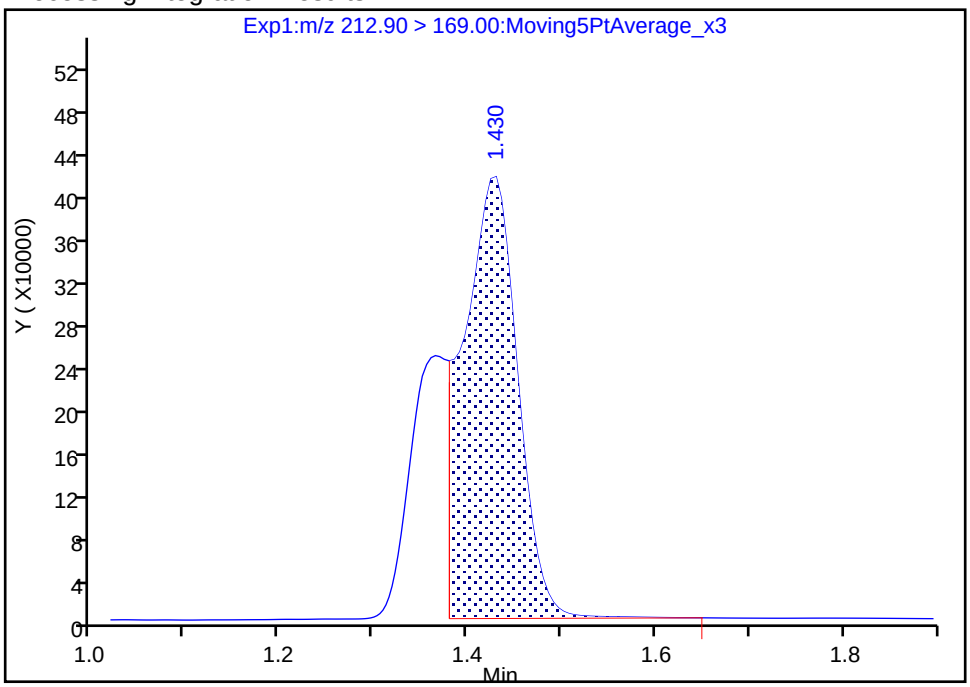
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N
Lims ID: LCS 320-232888/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

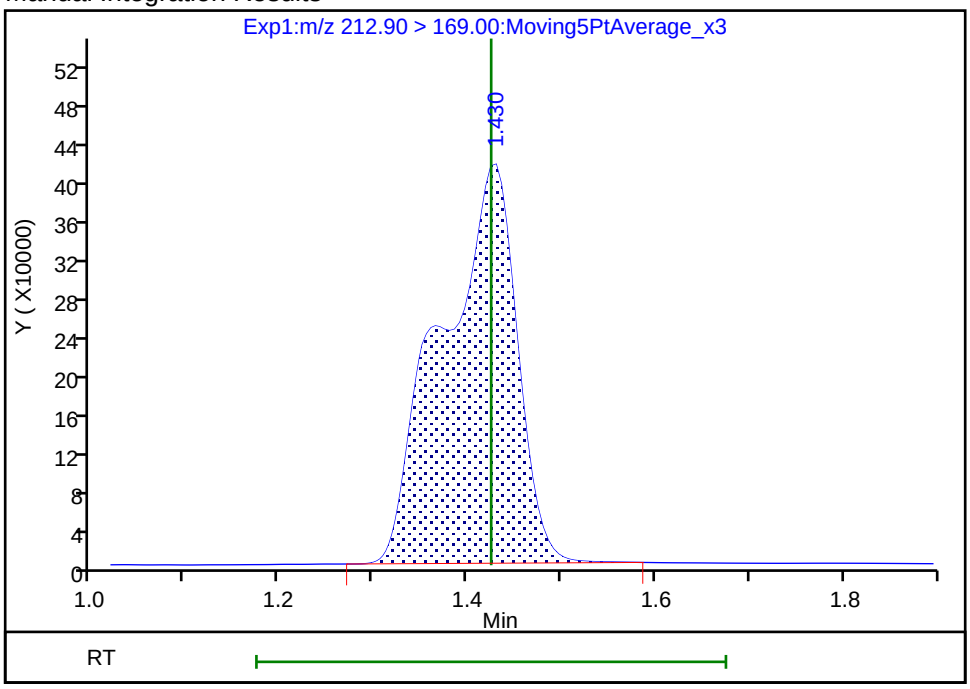
Processing Integration Results

RT: 1.43
Area: 1623864
Amount: 0.661127
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 2287503
Amount: 0.931315
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:01
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

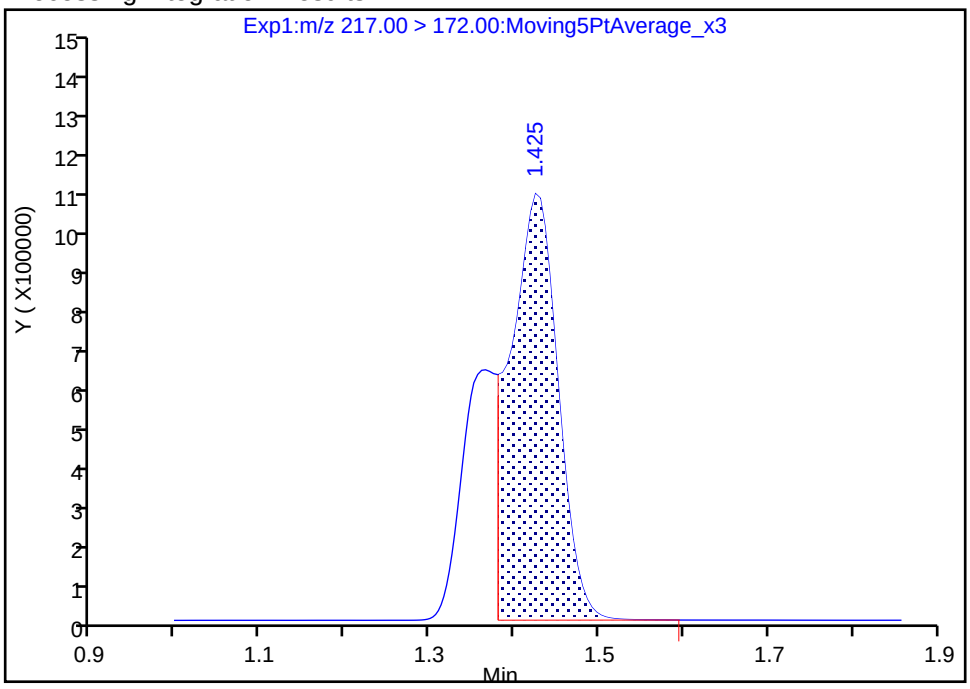
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_049.d
Injection Date: 11-Jul-2018 01:58:48 Instrument ID: A8_N
Lims ID: LCS 320-232888/2-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 35 Worklist Smp#: 3
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

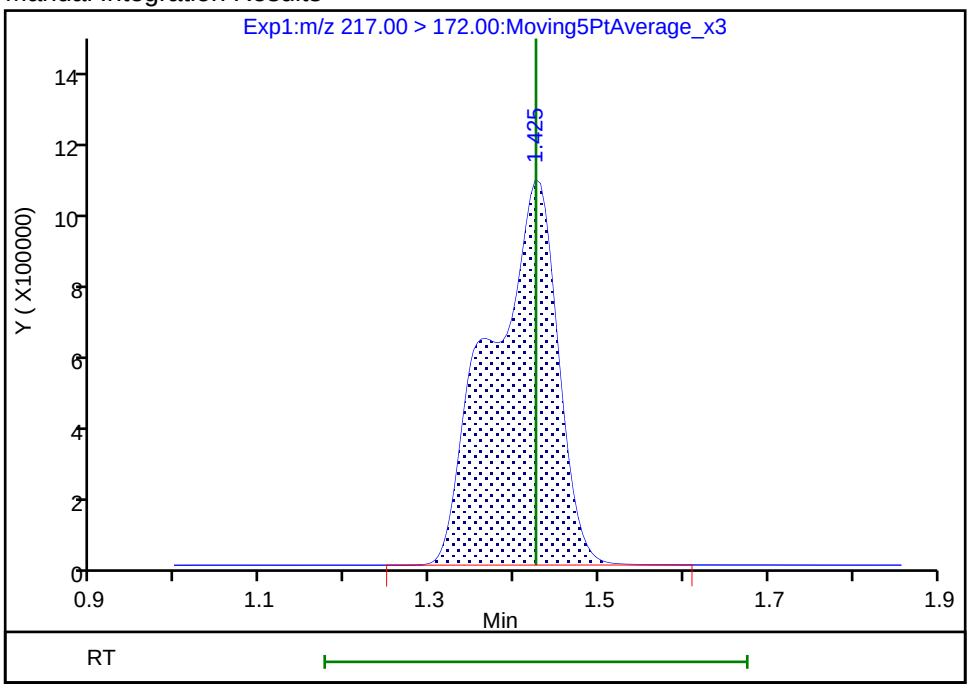
Processing Integration Results

RT: 1.42
Area: 4204185
Amount: 1.519375
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 6011686
Amount: 2.172598
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:36:50
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-232888/3-A

Matrix: Water | Lab File ID: 2018.07.10LLB_050.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 02:06

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	36.7		2.0	0.35
2706-90-3	Perfluoropentanoic acid (PFPeA)	36.2		2.0	0.49
307-24-4	Perfluorohexanoic acid (PFHxA)	38.0		2.0	0.58
375-85-9	Perfluoroheptanoic acid (PFHpA)	38.8		2.0	0.25
335-67-1	Perfluorooctanoic acid (PFOA)	39.9		2.0	0.85
375-95-1	Perfluorononanoic acid (PFNA)	39.1		2.0	0.27
335-76-2	Perfluorodecanoic acid (PFDA)	38.9		2.0	0.31
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.3		2.0	1.1
307-55-1	Perfluorododecanoic acid (PFDoA)	38.1		2.0	0.55
72629-94-8	Perfluorotridecanoic Acid (PFTriA)	33.1		2.0	1.3
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.1		2.0	0.29
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.3		2.0	0.20
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	32.8		2.0	0.17
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	38.1		2.0	0.19
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.0		2.0	0.54
335-77-3	Perfluorodecanesulfonic acid (PFDS)	34.3		2.0	0.32
754-91-6	Perfluorooctane Sulfonamide (FOSA)	38.0		2.0	0.35

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Sacramento | Job No.: 460-159314-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 320-232888/3-A

Matrix: Water | Lab File ID: 2018.07.10LLB_050.d

Analysis Method: 537 (modified) | Date Collected:

Extraction Method: 3535 | Date Extracted: 07/07/2018 09:25

Sample wt/vol: 250(mL) | Date Analyzed: 07/11/2018 02:06

Con. Extract Vol.: 10.00(mL) | Dilution Factor: 1

Injection Volume: 2(uL) | GC Column: GeminiC18 3x100 ID: 3(mm)

% Moisture: | GPC Cleanup:(Y/N) N

Analysis Batch No.: 233309 | Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	77		25-150
STL00992	13C4 PFBA	83		25-150
STL00993	13C2 PFHxA	84		25-150
STL00990	13C4 PFOA	89		25-150
STL00995	13C5 PFNA	89		25-150
STL00996	13C2 PFDA	90		25-150
STL00997	13C2 PFUnA	92		25-150
STL00998	13C2 PFDoA	85		25-150
STL00994	18O2 PFHxS	87		25-150
STL00991	13C4 PFOS	86		25-150
STL01892	13C4-PFHpA	86		25-150
STL01893	13C5 PFPeA	82		25-150
STL02337	13C3-PFBS	78		25-150
STL02116	13C2-PFTeDA	80		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Lims ID: LCSD 320-232888/3-A
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jul-2018 02:06:36 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Sample Info: lcsd 320-232888/3-a
Misc. Info.: Plate: 1 Rack: 3
Operator ID: SACINSTLCMS01 Instrument ID: A8_N

Method: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\A8_N.m
Limit Group: LC PFC ICAL
Last Update: 12-Jul-2018 08:38:09 Calib Date: 05-Jul-2018 09:38:17
Integrator: Picker
Quant Method: Isotopic Dilution Quant By: Initial Calibration
Last ICal File: \\ChromNA\Sacramento\ChromData\A8_N\20180705-60684.b\2018.07.05LLICALAA_008.d

Column 1 : Det: EXP1
Process Host: XAWRK022

First Level Reviewer: mongkols Date: 12-Jul-2018 08:38:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
2 Perfluorobutyric acid										M
212.90 > 169.00	1.430	1.425	0.005	1.004	2126444	0.9164		91.6	985	M
D 1 13C4 PFBA										M
217.00 > 172.00	1.424	1.425	-0.001	0.536	5679455	2.07		82.7	29406	M
4 Perfluoropentanoic acid										
262.90 > 219.00	1.711	1.712	-0.001	1.000	1787011	0.9045		90.5	1478	
D 3 13C5-PFPeA										
267.90 > 223.00	1.711	1.712	-0.001	0.643	4147395	2.04		81.5	37625	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	1.756	1.748	0.008	1.000	2462007	0.8572		97.0	11567	
298.90 > 99.00	1.756	1.748	0.008	1.000	1052201		2.34(1.25-3.74)		11148	
D 47 13C3-PFBS										
301.90 > 83.00	1.756	1.748	0.008	0.660	88088	1.81		77.9	766	
61 1H,1H,2H,2H-perfluorohexanesulfoni										
327.00 > 307.00	1.959	1.950	0.009	1.116	585241	0.9850		105	27827	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.003	1.993	0.010	1.000	1773205	0.9506		95.1	3842	
313.00 > 119.00	2.003	1.993	0.010	1.000	161188		11.00(5.03-15.10)		2582	
D 7 13C2 PFHxA										
315.00 > 270.00	2.003	1.994	0.009	0.753	4579910	2.10		84.1	57409	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.025	2.016	0.009	1.154	2478221	1.01		108	33664	
349.00 > 99.00	2.025	2.016	0.009	1.154	840207		2.95(1.36-4.07)		14314	
67 Perfluoro(2-propoxypropanoic) acid										
329.10 > 285.00	2.093	2.084	0.009	1.000	307660	0.9451		94.5	2625	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.093	2.084	0.009	0.787	354002	1.98		79.3	5573	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
10 Perfluoroheptanoic acid										
363.00 > 319.00	2.319	2.308	0.011	1.000	1817199	0.9704		97.0	2763	
363.00 > 169.00	2.319	2.308	0.011	1.000	699215		2.60(1.13-3.40)		5527	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	2.332	2.308	0.024	1.000	1968588	0.8197		90.1	10116	
399.00 > 99.00	2.332	2.308	0.024	1.000	650403		3.03(1.50-4.49)		4421	
D 9 13C4-PFHpA										
367.00 > 322.00	2.319	2.309	0.010	0.872	4144074	2.14		85.8	47774	
D 11 18O2 PFHxS										
403.00 > 84.00	2.332	2.322	0.010	0.877	4912413	2.07		87.3	40786	
65 Adona										
377.00 > 251.00	2.358	2.347	0.011	0.781	5056046	0.9328		93.3	37720	
377.00 > 85.00	2.358	2.347	0.011	0.781	3037697		1.66(0.84-2.53)		32102	
13 1H,1H,2H,2H-perfluorooctanesulfoni										
427.00 > 407.00	2.636	2.620	0.016	1.000	572249	0.9237		97.4	3499	
D 12 M2-6:2FTS										
429.00 > 81.00	2.636	2.621	0.015	0.991	939232	2.16		91.1	17924	
* 62 13C2-PFOA										
415.00 > 370.00	2.659	2.652	0.007		4964090	2.50			47645	
15 Perfluorooctanoic acid										
413.00 > 369.00	2.659	2.652	0.007	1.000	1993087	1.00		99.7	678	
413.00 > 169.00	2.659	2.652	0.007	1.000	959619		2.08(0.84-2.52)		4830	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	2.667	2.652	0.015	0.884	1867499	0.9533		100	19030	
449.00 > 99.00	2.667	2.652	0.015	0.884	483037		3.87(1.94-5.82)		11203	
D 14 13C4 PFOA										
417.00 > 372.00	2.659	2.653	0.006	1.000	4209793	2.22		88.9	41221	
17 Perfluorooctane sulfonic acid										
499.00 > 80.00	3.026	3.009	0.017	1.002	1493331	0.8741		94.2	15882	
499.00 > 99.00	3.019	3.009	0.010	1.000	332279		4.49(2.31-6.93)		8762	
20 Perfluorononanoic acid										
463.00 > 419.00	3.026	3.009	0.017	1.000	1505305	0.9768		97.7	3570	
463.00 > 169.00	3.026	3.009	0.017	1.000	367254		4.10(1.90-5.69)		10868	
D 19 13C5 PFNA										
468.00 > 423.00	3.026	3.010	0.016	1.138	3575008	2.22		88.8	38324	
D 18 13C4 PFOS										
503.00 > 80.00	3.019	3.010	0.009	1.135	3495467	2.06		86.1	22505	
69 9-Chlorohexadecafluoro-3-oxanonane										
531.00 > 351.00	3.233	3.214	0.019	1.071	2455235	0.8880		95.3	42959	
25 1H,1H,2H,2H-perfluorodecanesulfoni										
527.00 > 507.00	3.361	3.350	0.011	0.997	478214	0.8473		88.4	13454	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	3.361	3.350	0.011	1.113	1032259	0.8685		90.5	12021	
549.00 > 99.00	3.361	3.350	0.011	1.113	388153		2.66(1.33-3.97)		9037	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	3.370	3.350	0.020	1.003	1703788	0.9497		95.0	20310	
D 26 M2-8:2FTS										
529.00 > 81.00	3.370	3.351	0.019	1.267	1023108	2.12		88.5	12149	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	3.361	3.351	0.010	1.264	4522432	1.92		76.8	64583	
24 Perfluorodecanoic acid										
513.00 > 469.00	3.379	3.359	0.020	1.000	1267831	0.9730		97.3	5067	
513.00 > 169.00	3.370	3.359	0.011	0.997	220559		5.75(2.36-7.09)		6174	
D 23 13C2 PFDA										
515.00 > 470.00	3.379	3.361	0.018	1.271	3125360	2.25		90.0	64775	
28 N-methyl perfluorooctane sulfonami										
570.00 > 419.00	3.529	3.518	0.011	1.000	630224	0.8685		86.9	3880	
D 27 d3-NMeFOSAA										
573.00 > 419.00	3.529	3.519	0.010	1.327	1762647	2.15		86.2	19709	
29 Perfluorodecane Sulfonic acid										
599.00 > 80.00	3.687	3.675	0.012	1.221	901544	0.8567		88.9	17222	
599.00 > 99.00	3.687	3.675	0.012	1.221	307194		2.93(1.39-4.16)		10742	
31 Perfluoroundecanoic acid										
563.00 > 519.00	3.698	3.685	0.013	1.000	803786	0.8825		88.2	4921	
563.00 > 169.00	3.698	3.685	0.013	1.000	193367		4.16(2.12-6.36)		5009	
33 N-ethyl perfluorooctane sulfonamid										
584.00 > 419.00	3.698	3.685	0.013	1.000	568994	0.9208		92.1	9789	
D 30 13C2 PFUnA										
565.00 > 520.00	3.698	3.687	0.011	1.390	2678627	2.30		91.9	31162	
D 32 d5-NEtFOSAA										
589.00 > 419.00	3.698	3.687	0.011	1.390	1713367	2.12		84.8	12103	
66 11-Chloroeicosafluoro-3-oxaundecan										
631.00 > 451.00	3.855	3.842	0.013	1.277	3841116	0.9106		96.7	38677	
37 Perfluorododecanoic acid										
613.00 > 569.00	3.988	3.975	0.013	1.000	1111904	0.9522		95.2	1490	
613.00 > 169.00	3.988	3.975	0.013	1.000	267403		4.16(2.13-6.40)		7057	
D 36 13C2 PFDoA										
615.00 > 570.00	3.988	3.977	0.011	1.500	2649195	2.12		84.8	14107	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.252	4.240	0.012	1.066	1075576	0.8269		82.7	1195	
663.00 > 169.00	4.252	4.240	0.012	1.066	334887		3.21(1.25-3.76)		5287	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.490	4.479	0.011	1.000	313481	0.9534		95.3	5523	
713.00 > 219.00	4.490	4.479	0.011	1.000	216284		1.45(0.71-2.13)		6397	
D 43 13C2-PFTeDA										
715.00 > 670.00	4.490	4.480	0.010	1.688	3035832	1.99		79.7	12129	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	4.896	4.886	0.010	1.000	2094639	0.8975		89.8	1106	
813.00 > 169.00	4.896	4.886	0.010	1.000	349098		6.00(2.86-8.58)		3336	
D 44 13C2-PFHxDA										
815.00 > 770.00	4.896	4.887	0.009	1.841	5989620	2.12		85.0	12843	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.247	5.239	0.008	1.072	2632928	0.9441		94.4	916	
913.00 > 169.00	5.247	5.239	0.008	1.072	317231		8.30(3.83-11.48)		3714	

QC Flag Legend

Review Flags

M - Manually Integrated

Report Date: 12-Jul-2018 08:38:10 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d

Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N

Lims ID: LCSD 320-232888/3-A

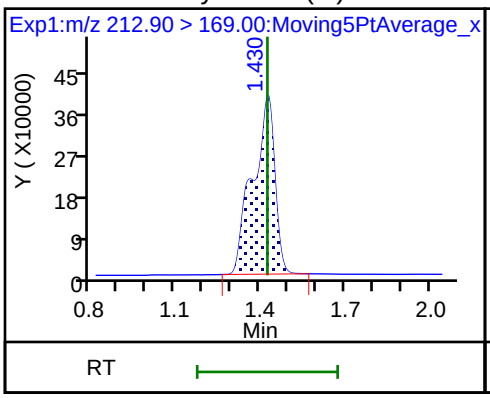
Client ID:

Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4

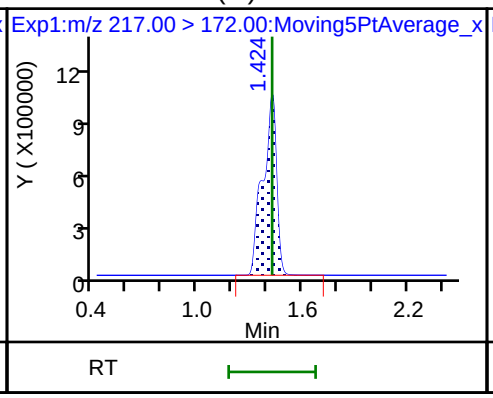
Injection Vol: 2.0 ul Dil. Factor: 1.0000

Method: A8_N Limit Group: LC PFC ICAL

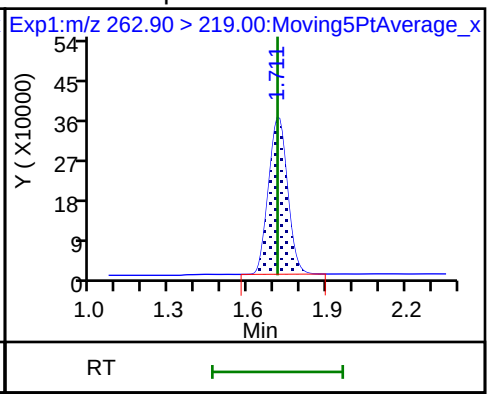
2 Perfluorobutyric acid (M)



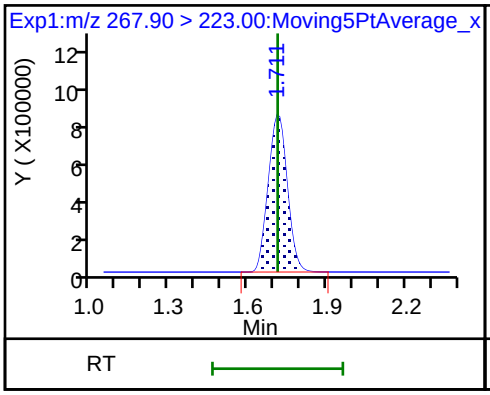
D 1 13C4 PFBA (M)



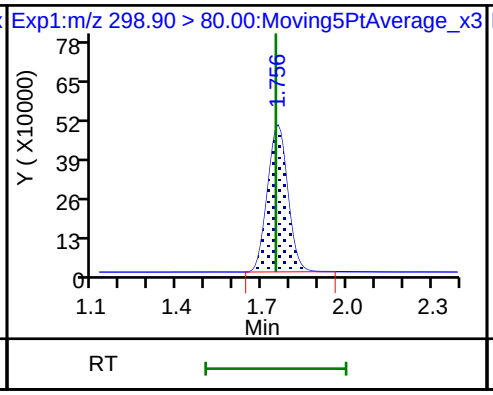
4 Perfluoropentanoic acid



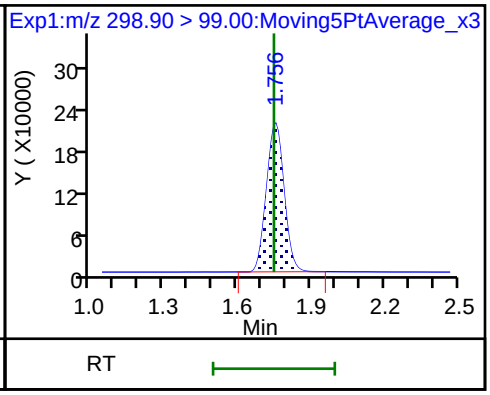
D 3 13C5-PFPeA



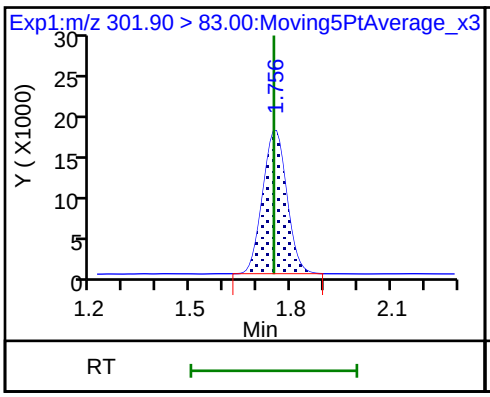
5 Perfluorobutanesulfonic acid



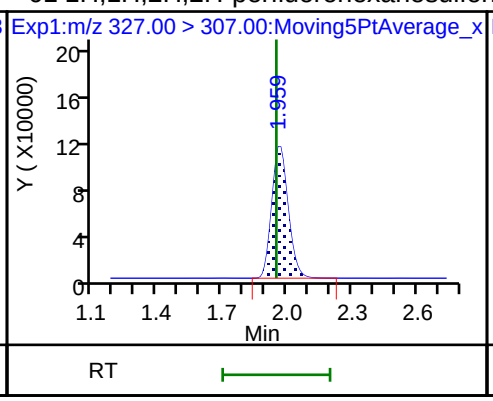
5 Perfluorobutanesulfonic acid



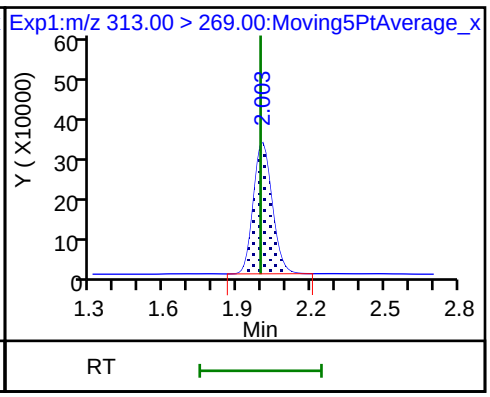
D 47 13C3-PFBS



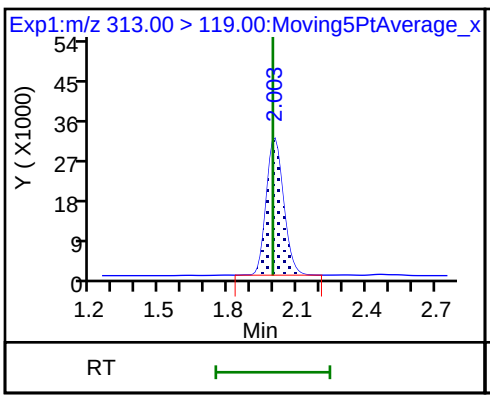
61 1H,1H,2H,2H-perfluorohexanesulfoni



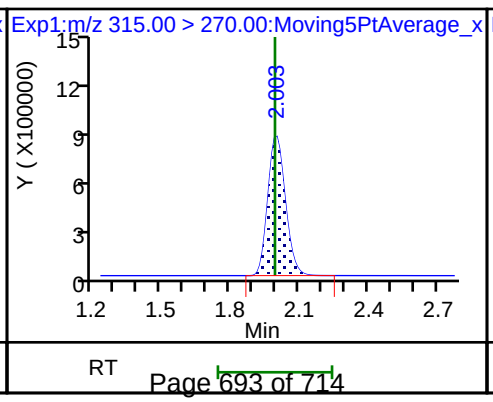
6 Perfluorohexanoic acid



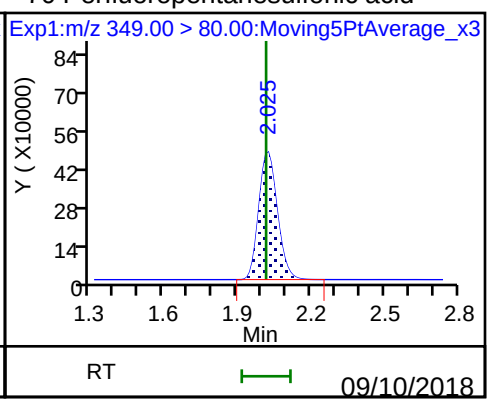
6 Perfluorohexanoic acid



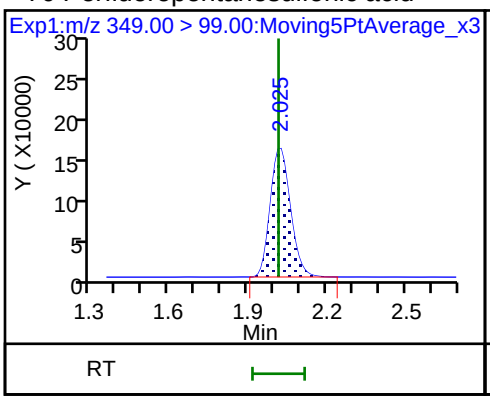
D 7 13C2 PFHxA



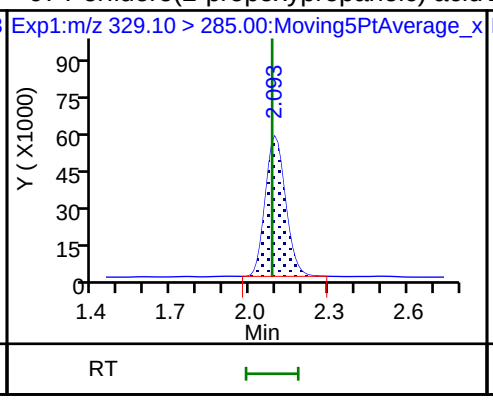
70 Perfluoropentanesulfonic acid



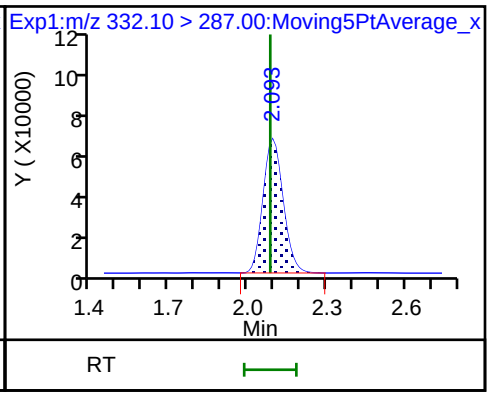
70 Perfluoropentanesulfonic acid



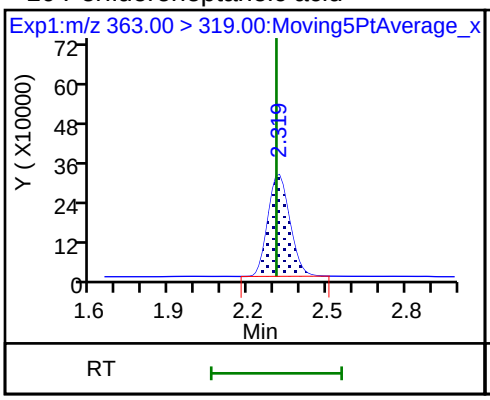
67 Perfluoro(2-propoxypropanoic) acid



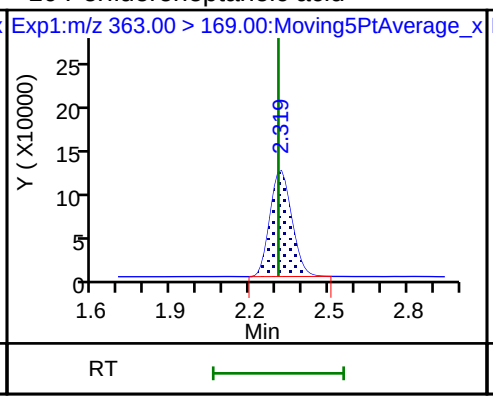
D 64 13C3 HFPO-DA



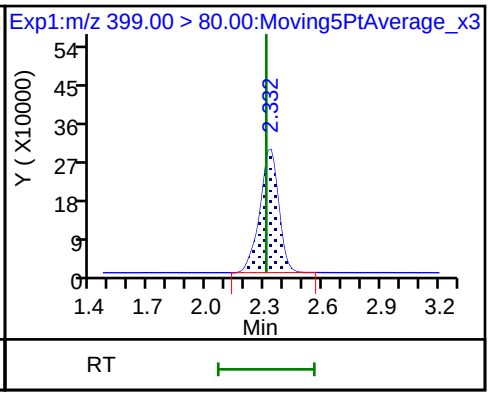
10 Perfluoroheptanoic acid



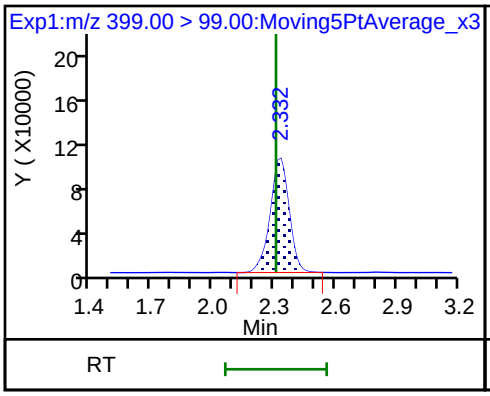
10 Perfluoroheptanoic acid



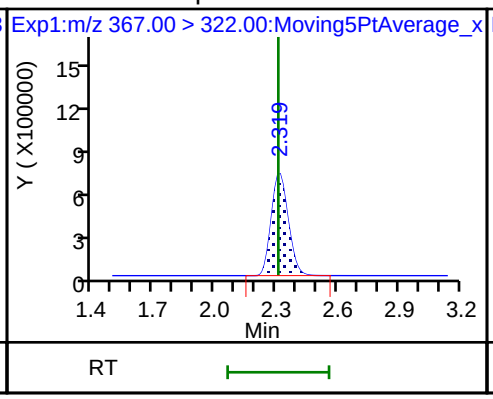
8 Perfluorohexanesulfonic acid



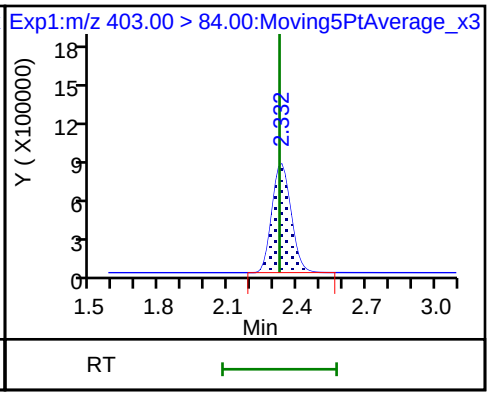
8 Perfluorohexanesulfonic acid



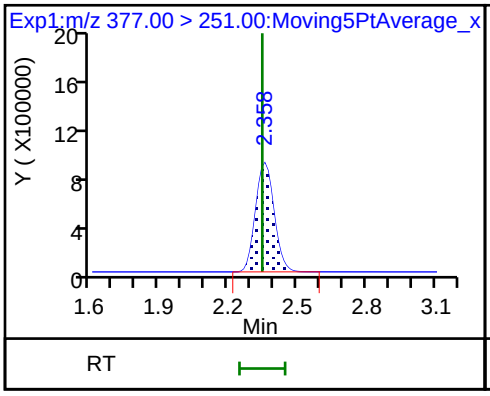
D 9 13C4-PFHpA



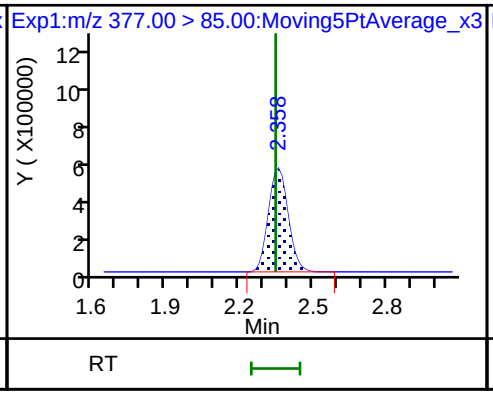
D 11 18O2 PFHxS



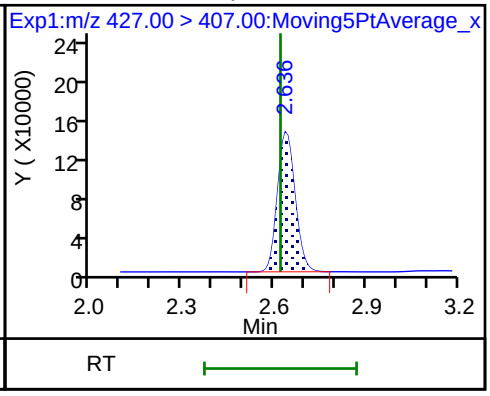
65 Adona



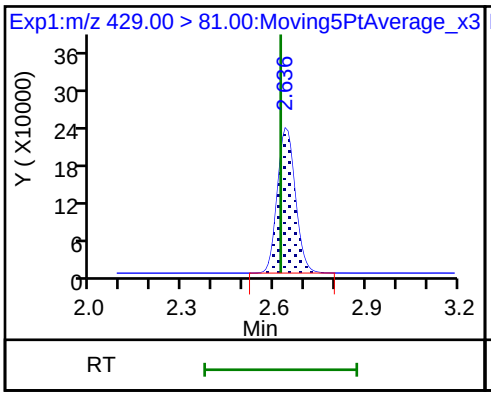
65 Adona



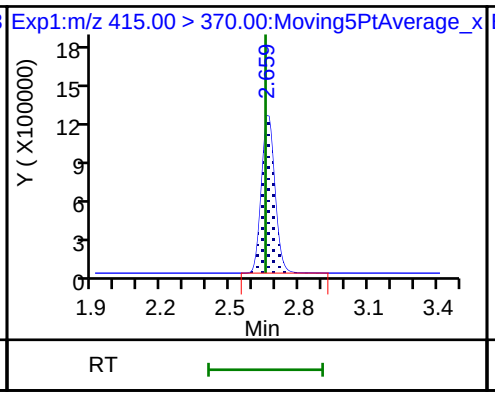
13 1H,1H,2H,2H-perfluorooctanesulfoni



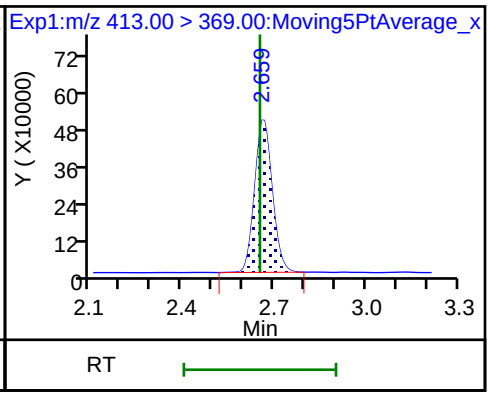
D 12 M2-6:2FTS



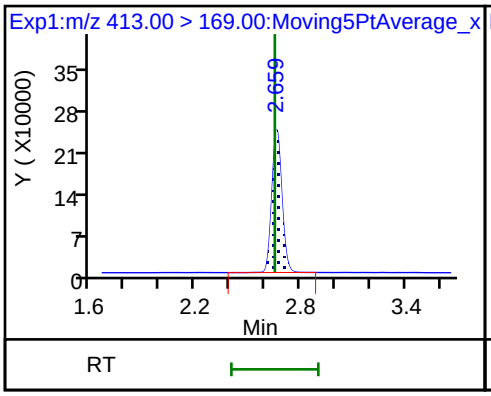
* 62 13C2-PFOA



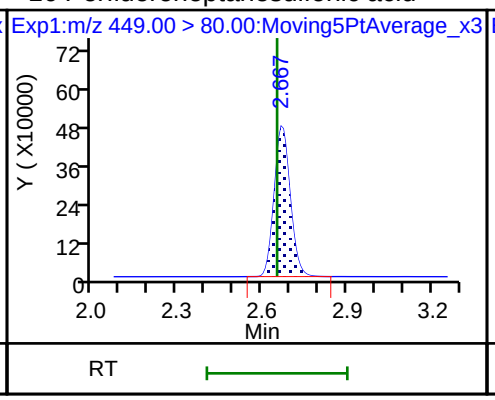
15 Perfluorooctanoic acid



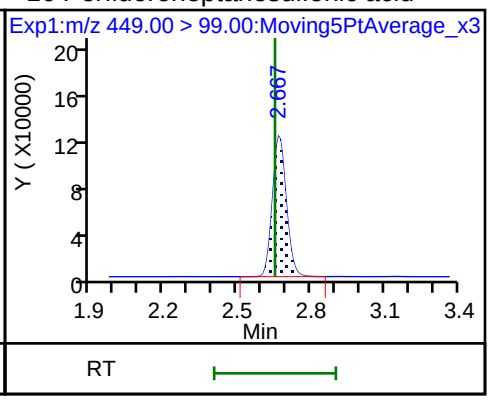
15 Perfluorooctanoic acid



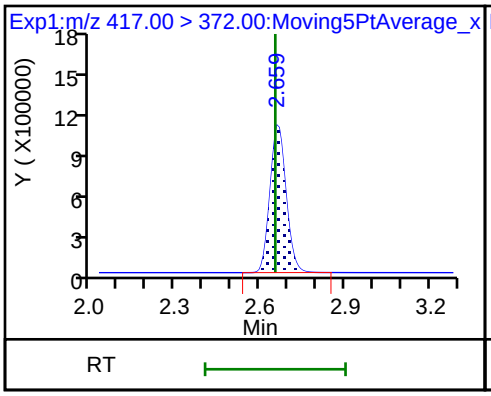
16 Perfluoroheptanesulfonic acid



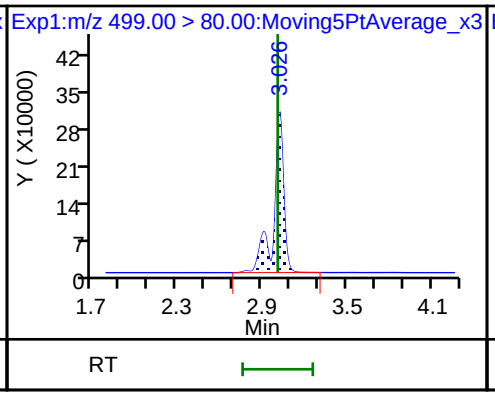
16 Perfluoroheptanesulfonic acid



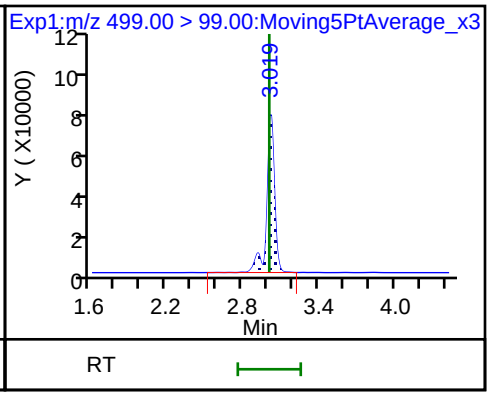
D 14 13C4 PFOA



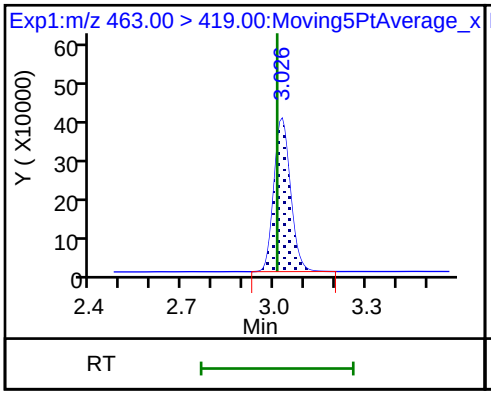
17 Perfluorooctane sulfonic acid



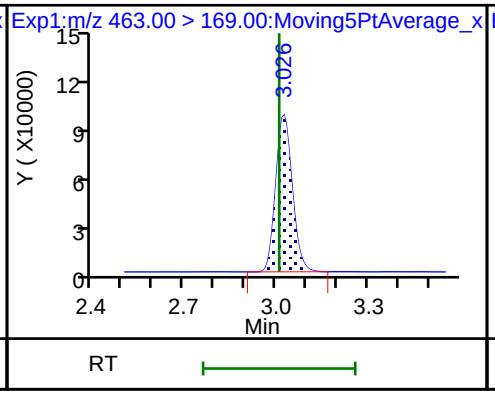
17 Perfluorooctane sulfonic acid



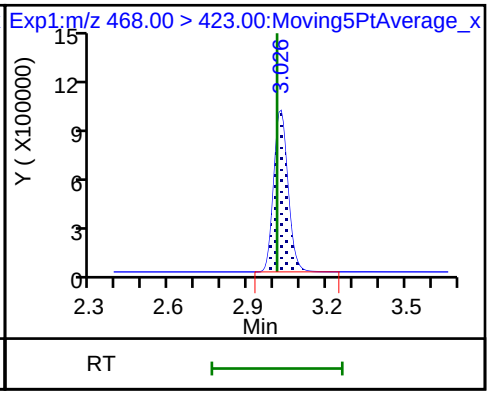
20 Perfluorononanoic acid



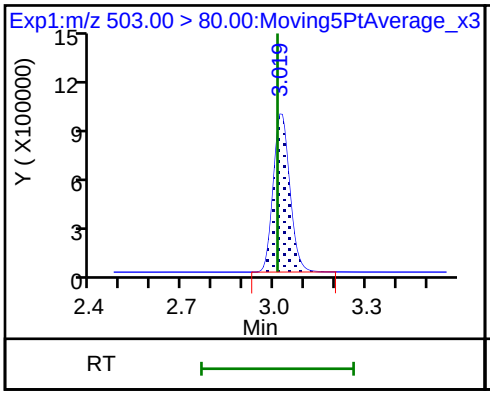
20 Perfluorononanoic acid



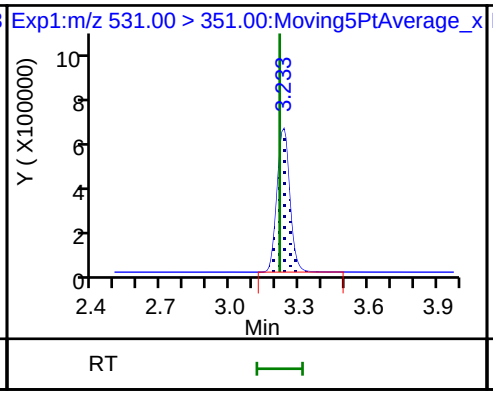
D 19 13C5 PFNA



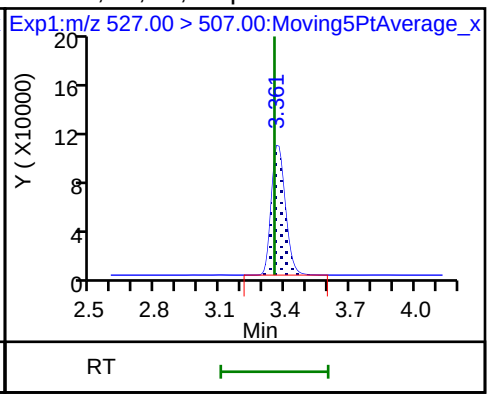
D 18 13C4 PFOS



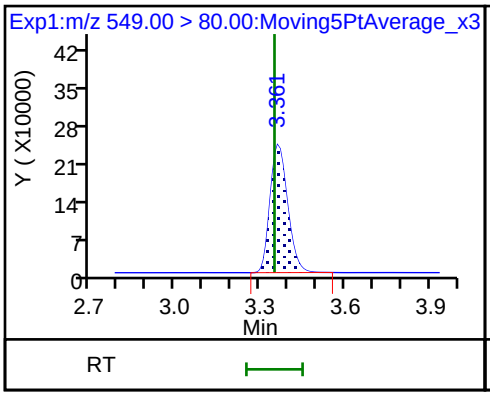
69 9-Chlorohexadecafluoro-3-oxanonane



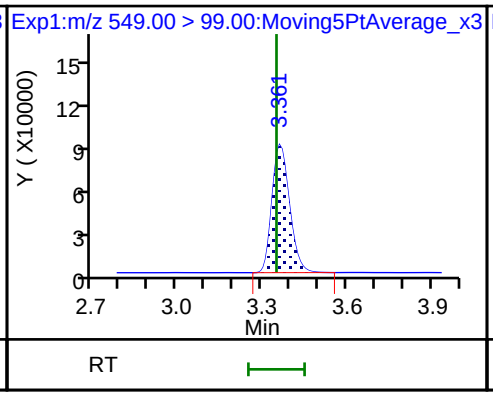
25 1H,1H,2H,2H-perfluorodecanesulfoni



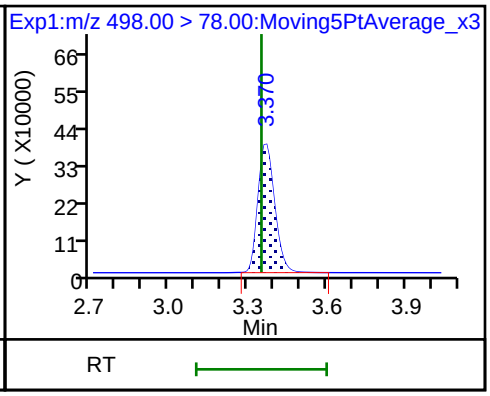
68 Perfluorononanesulfonic acid



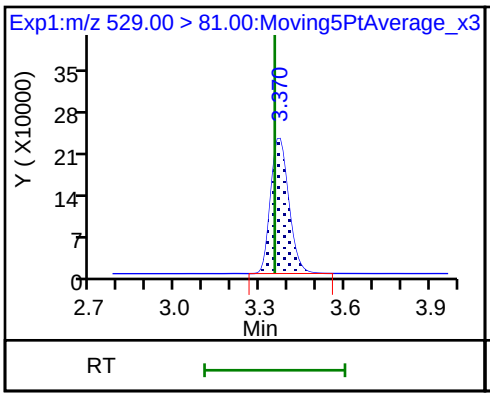
68 Perfluorononanesulfonic acid



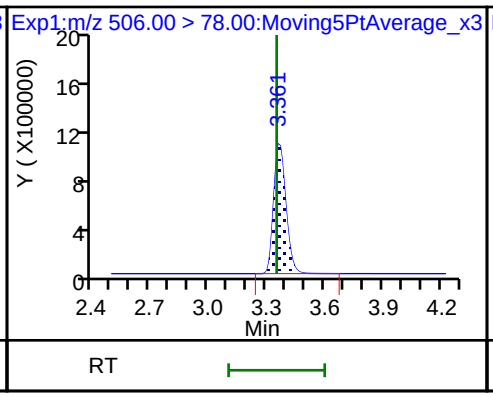
22 Perfluorooctane Sulfonamide



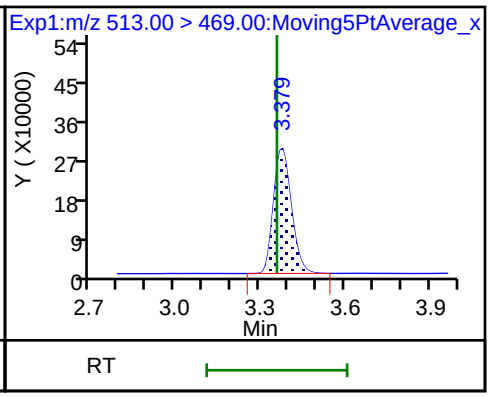
D 26 M2-8:2FTS



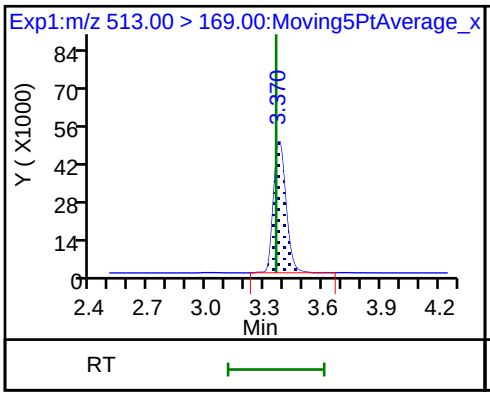
D 21 13C8 FOSA



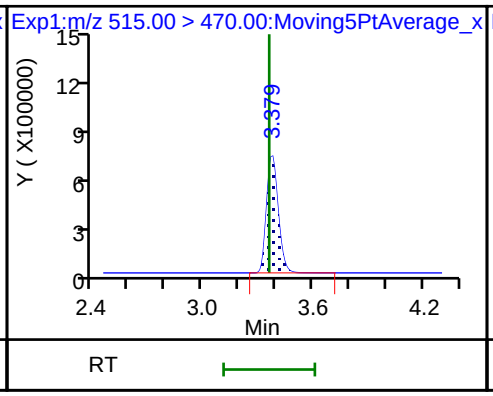
24 Perfluorodecanoic acid



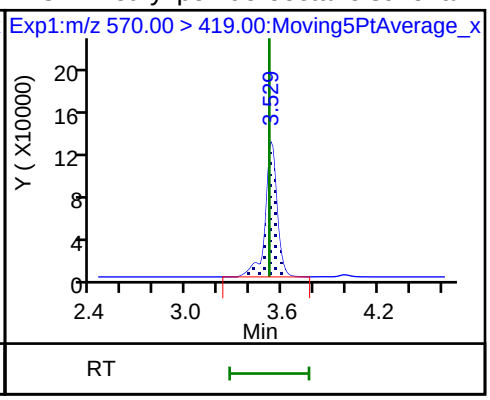
24 Perfluorodecanoic acid



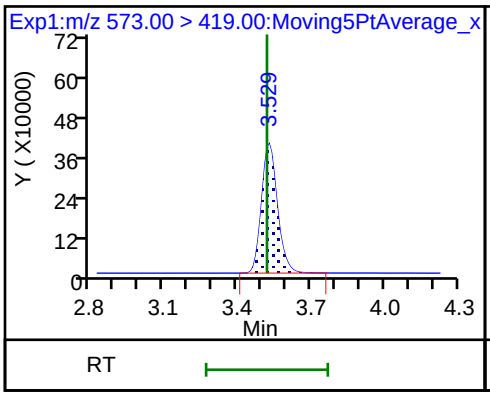
D 23 13C2 PFDA



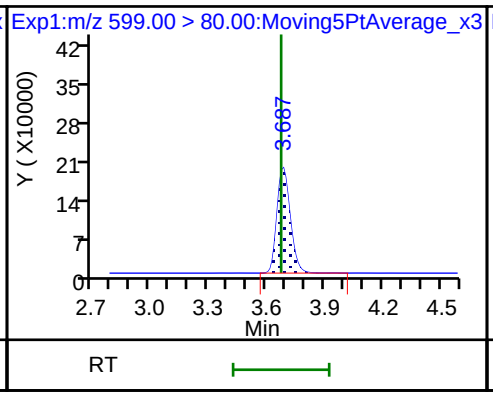
28 N-methyl perfluorooctane sulfonami



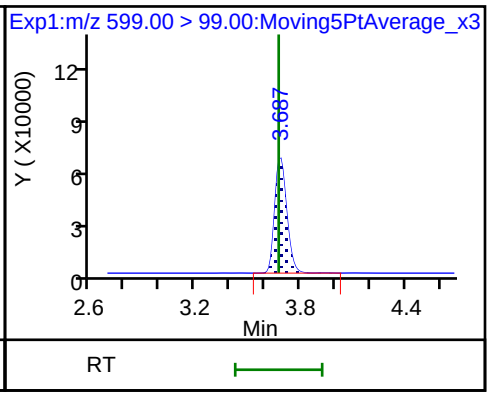
D 27 d3-NMeFOSAA



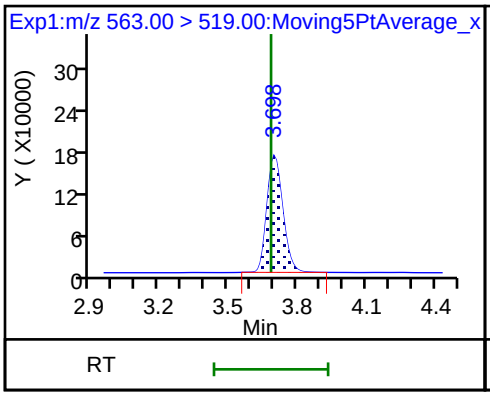
29 Perfluorodecane Sulfonic acid



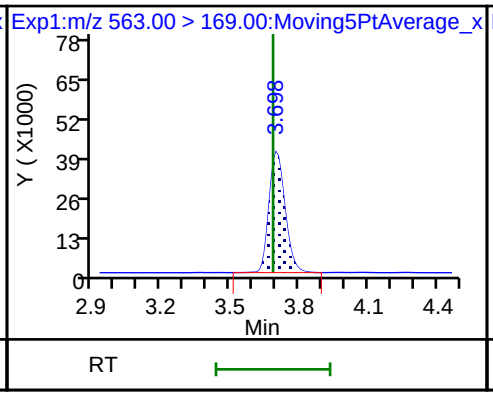
29 Perfluorodecane Sulfonic acid



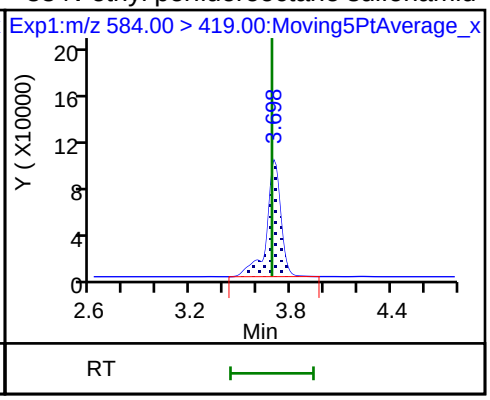
31 Perfluoroundecanoic acid



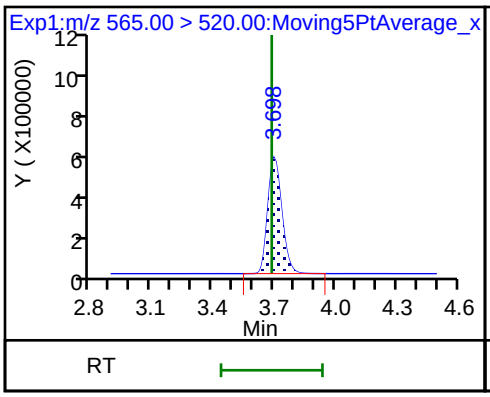
31 Perfluoroundecanoic acid



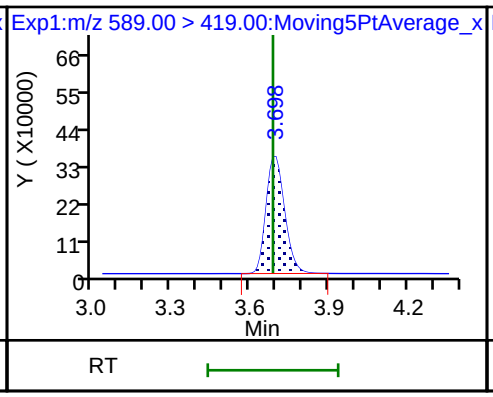
33 N-ethyl perfluorooctane sulfonamid



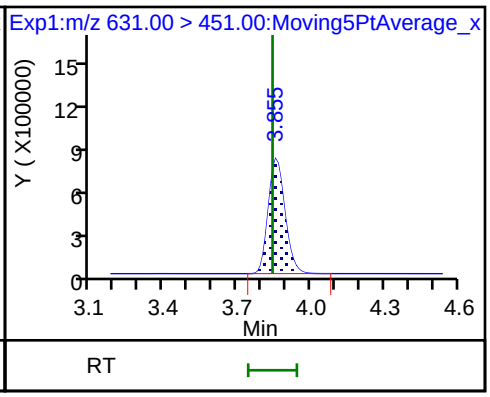
D 30 13C2 PFUnA



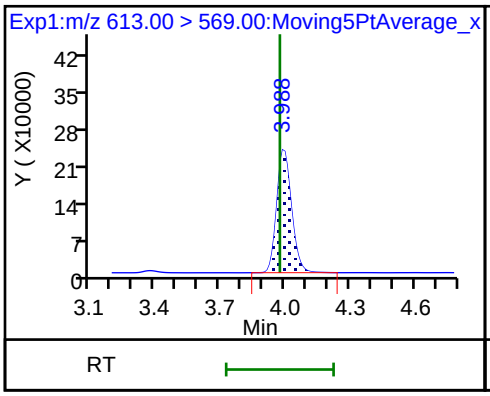
D 32 d5-NEtFOSAA



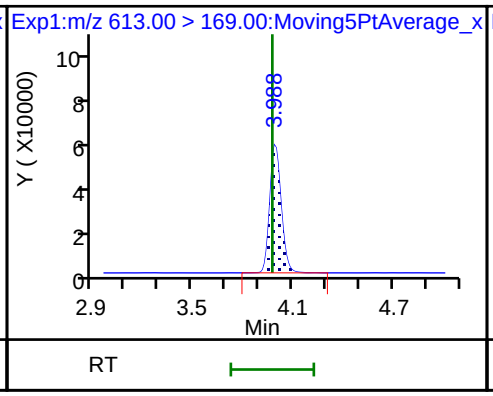
66 11-Chloroeicosafluoro-3-oxaundecan



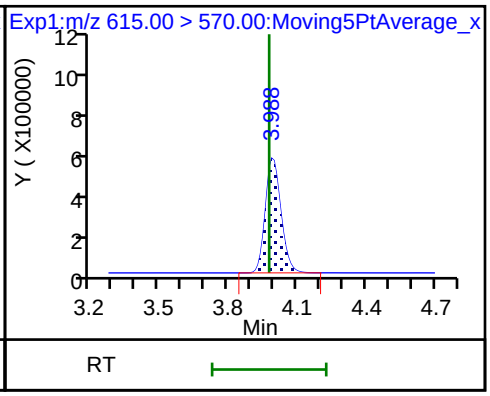
37 Perfluorododecanoic acid



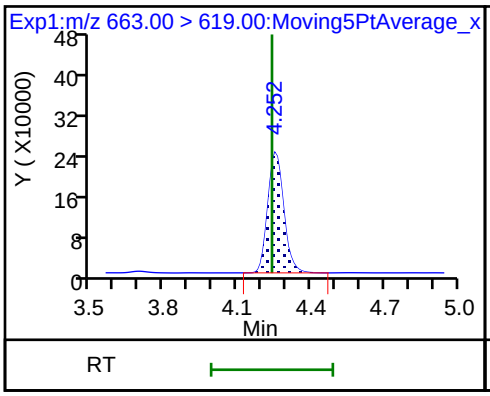
37 Perfluorododecanoic acid



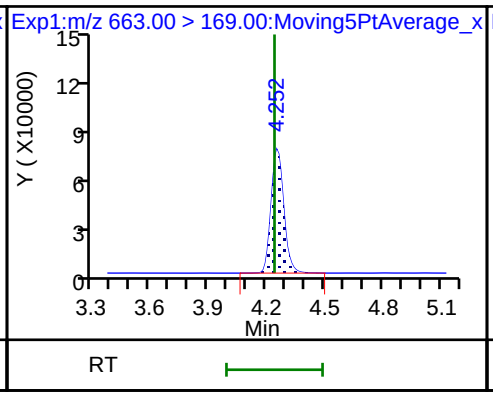
D 36 13C2 PFDoA



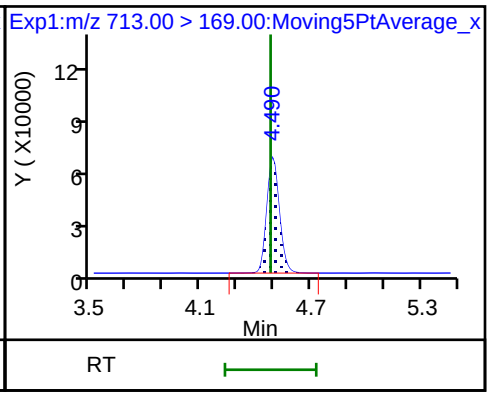
41 Perfluorotridecanoic acid



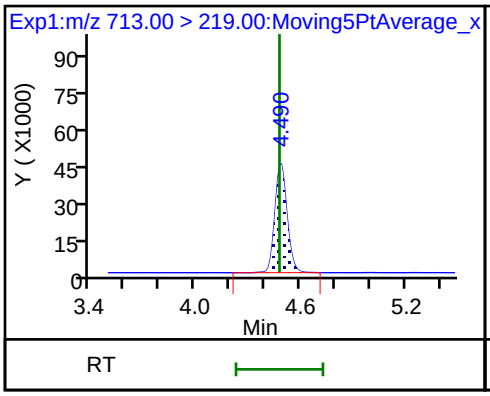
41 Perfluorotridecanoic acid



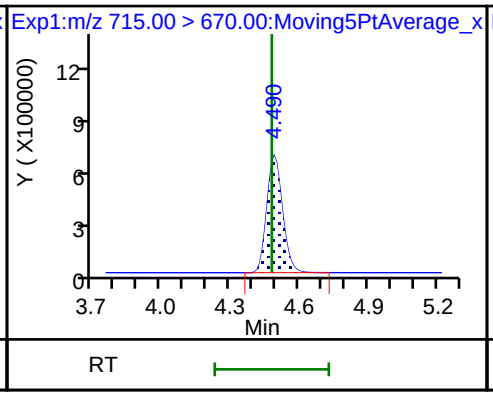
42 Perfluorotetradecanoic acid



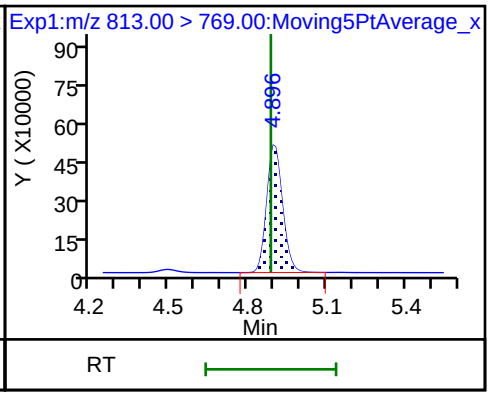
42 Perfluorotetradecanoic acid



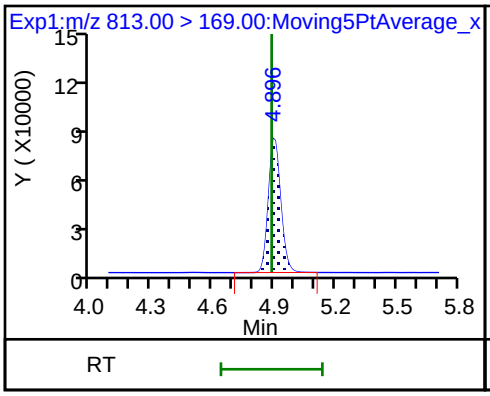
D 43 13C2-PFTeDA



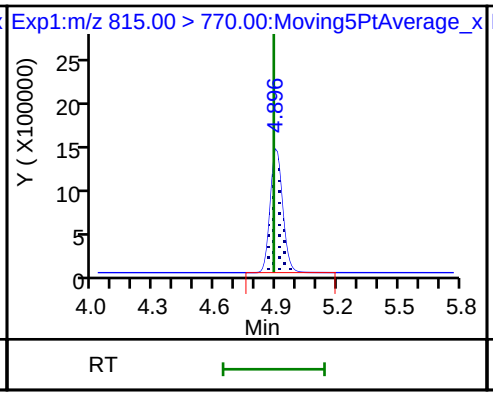
45 Perfluorohexadecanoic acid



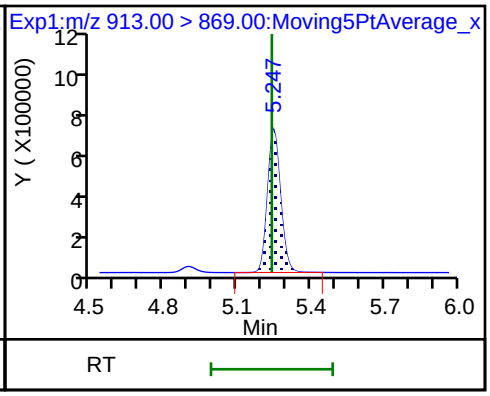
45 Perfluorohexadecanoic acid



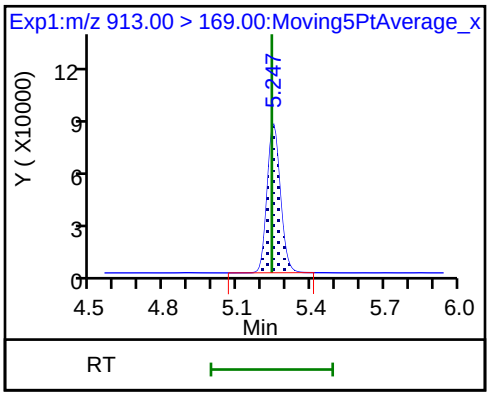
D 44 13C2-PFHxDA



46 Perfluorooctadecanoic acid



46 Perfluorooctadecanoic acid



Manual Integration/User Assign Peak Report

TestAmerica Sacramento

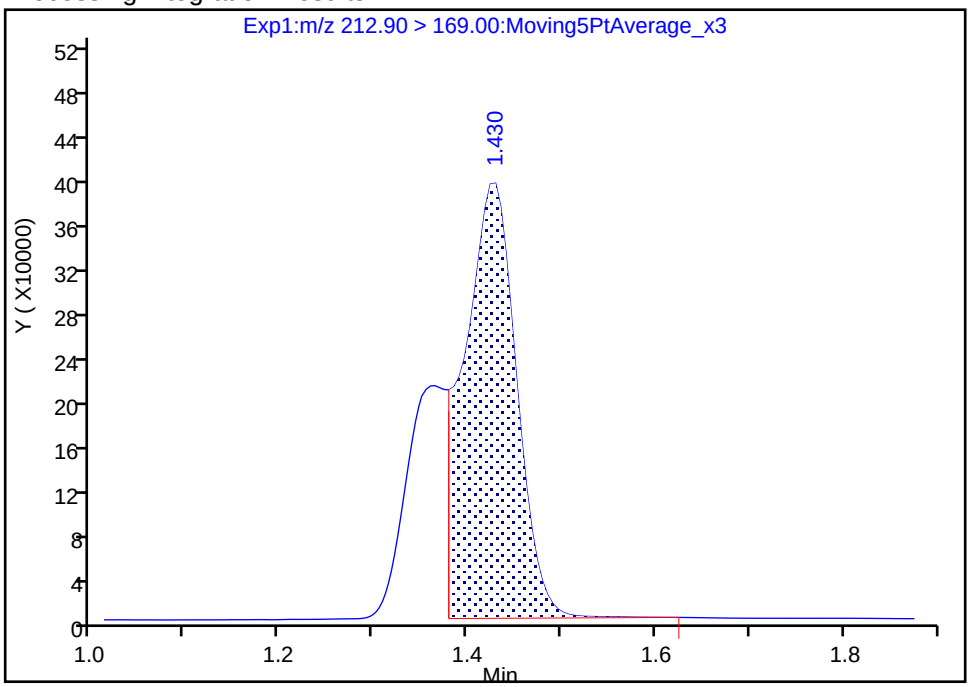
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N
Lims ID: LCSD 320-232888/3-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

2 Perfluorobutyric acid, CAS: 375-22-4

Signal: 1

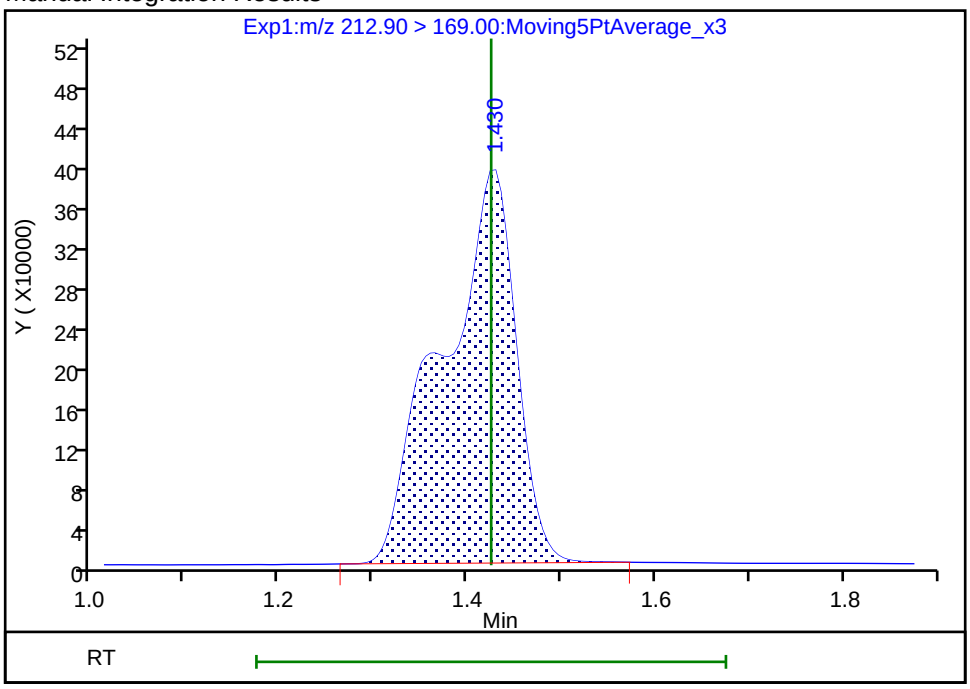
Processing Integration Results

RT: 1.43
Area: 1505965
Amount: 0.648992
Amount Units: ng/ml



Manual Integration Results

RT: 1.43
Area: 2126444
Amount: 0.916387
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:53
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Sacramento

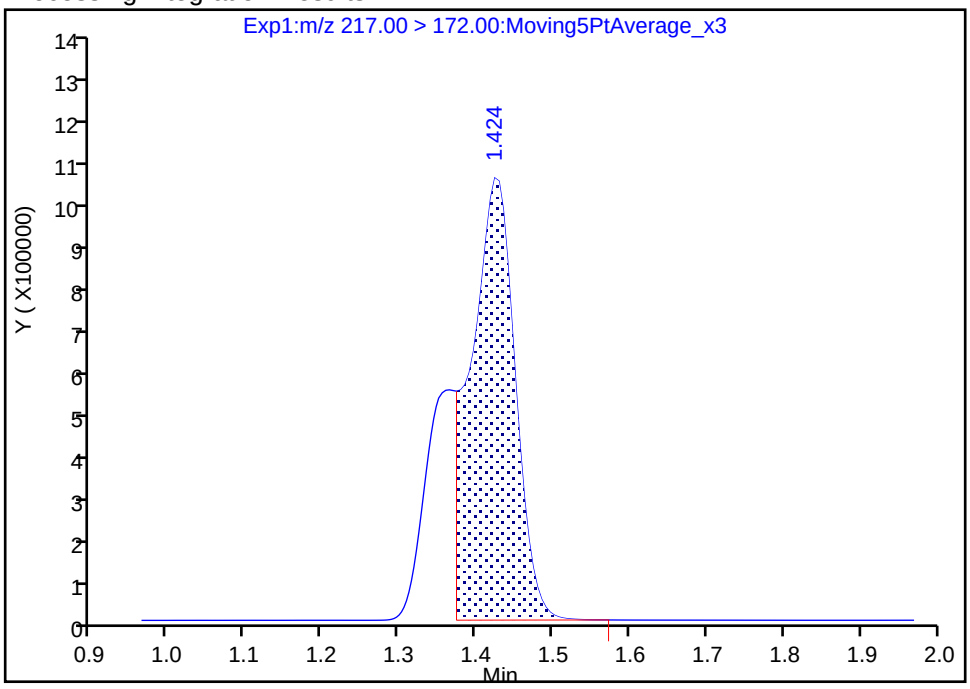
Data File: \\ChromNa\Sacramento\ChromData\A8_N\20180710-60878.b\2018.07.10LLB_050.d
Injection Date: 11-Jul-2018 02:06:36 Instrument ID: A8_N
Lims ID: LCSD 320-232888/3-A
Client ID:
Operator ID: SACINSTLCMS01 ALS Bottle#: 36 Worklist Smp#: 4
Injection Vol: 2.0 ul Dil. Factor: 1.0000
Method: A8_N Limit Group: LC PFC ICAL
Column: Detector EXP1

D 1 13C4 PFBA, CAS: STL00992

Signal: 1

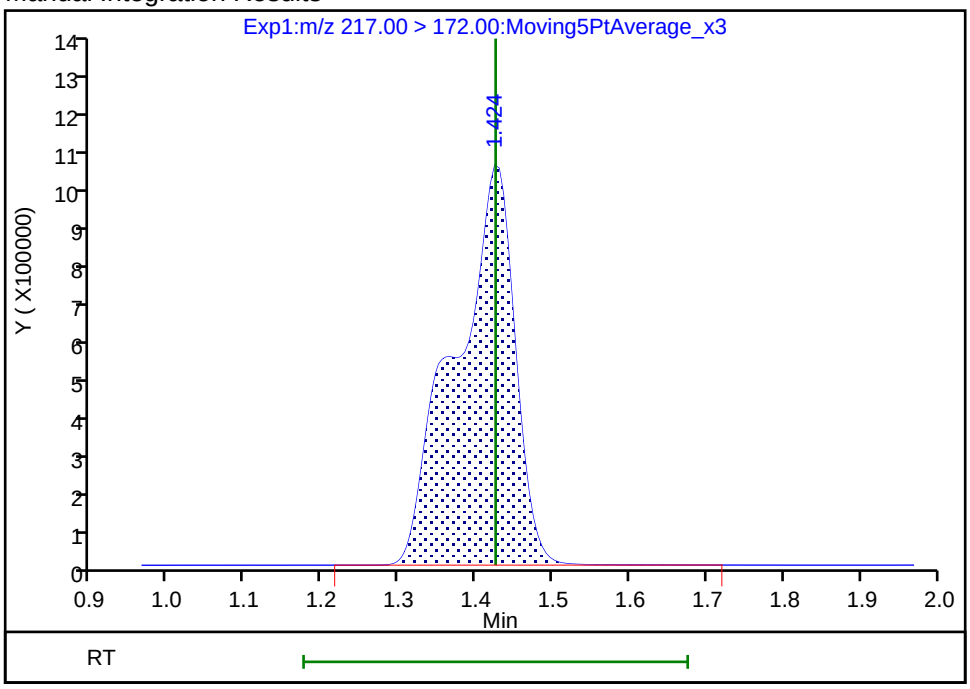
Processing Integration Results

RT: 1.42
Area: 4163510
Amount: 1.514777
Amount Units: ng/ml



Manual Integration Results

RT: 1.42
Area: 5679455
Amount: 2.066312
Amount Units: ng/ml



Reviewer: mongkols, 12-Jul-2018 08:37:41
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/05/2018 08:51

Analysis Batch Number: 232544 End Date: 07/05/2018 12:10

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-232544/2		07/05/2018 08:51	1	2018.07.05LLICALAA 002.d	GeminiC18 3x100 3(mm)
IC 320-232544/3		07/05/2018 08:59	1	2018.07.05LLICALAA 003.d	GeminiC18 3x100 3(mm)
IC 320-232544/4		07/05/2018 09:07	1	2018.07.05LLICALAA 004.d	GeminiC18 3x100 3(mm)
IC 320-232544/5 ICIS		07/05/2018 09:14	1	2018.07.05LLICALAA 005.d	GeminiC18 3x100 3(mm)
IC 320-232544/6		07/05/2018 09:22	1	2018.07.05LLICALAA 006.d	GeminiC18 3x100 3(mm)
IC 320-232544/7		07/05/2018 09:30	1	2018.07.05LLICALAA 007.d	GeminiC18 3x100 3(mm)
IC 320-232544/8		07/05/2018 09:38	1	2018.07.05LLICALAA 008.d	GeminiC18 3x100 3(mm)
ICB 320-232544/9		07/05/2018 09:46	1	2018.07.05LLICALAA 009.d	GeminiC18 3x100 3(mm)
ICV 320-232544/10		07/05/2018 12:02	1	2018.07.05LLICALAAA 010.d	GeminiC18 3x100 3(mm)
CCB 320-232544/11		07/05/2018 12:10	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/10/2018 20:06

Analysis Batch Number: 233302 End Date: 07/10/2018 23:06

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-233302/1		07/10/2018 20:06	1	2018.07.10LLB_004.d	GeminiC18 3x100 3(mm)
CCVL 320-233302/2		07/10/2018 20:14	1	2018.07.10LLB_005.d	GeminiC18 3x100 3(mm)
CCV 320-233302/3 CCVIS		07/10/2018 20:22	1	2018.07.10LLB_006.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:37	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:45	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 20:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:01	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:09	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:17	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:24	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:32	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:40	1		GeminiC18 3x100 3(mm)
CCV 320-233302/14		07/10/2018 21:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 21:56	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:04	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:11	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:19	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:27	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:35	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:43	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:51	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/10/2018 22:58	1		GeminiC18 3x100 3(mm)
CCV 320-233302/24		07/10/2018 23:06	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/11/2018 01:43

Analysis Batch Number: 233309 End Date: 07/11/2018 05:14

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-233309/1		07/11/2018 01:43	1	2018.07.10LLB_047.d	GeminiC18 3x100 3(mm)
MB 320-232888/1-A		07/11/2018 01:51	1	2018.07.10LLB_048.d	GeminiC18 3x100 3(mm)
LCS 320-232888/2-A		07/11/2018 01:58	1	2018.07.10LLB_049.d	GeminiC18 3x100 3(mm)
LCSD 320-232888/3-A		07/11/2018 02:06	1	2018.07.10LLB_050.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:14	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:22	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:30	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:45	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 02:53	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:01	1		GeminiC18 3x100 3(mm)
CCV 320-233309/12		07/11/2018 03:09	1	2018.07.10LLB_058.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:24	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:32	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:48	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 03:55	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:11	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:19	1		GeminiC18 3x100 3(mm)
CCV 320-233309/23		07/11/2018 04:35	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:42	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:50	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 04:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/11/2018 05:06	1		GeminiC18 3x100 3(mm)
CCV 320-233309/28		07/11/2018 05:14	1		GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/11/2018 14:48

Analysis Batch Number: 233476 End Date: 07/11/2018 15:54

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
IC 320-233476/2		07/11/2018 14:48	1	2018.07.11LLICA LA 002.d	GeminiC18 3x100 3(mm)
IC 320-233476/3		07/11/2018 14:59	1	2018.07.11LLICA LA 003.d	GeminiC18 3x100 3(mm)
IC 320-233476/4		07/11/2018 15:07	1	2018.07.11LLICA LA 004.d	GeminiC18 3x100 3(mm)
IC 320-233476/5 ICIS		07/11/2018 15:15	1	2018.07.11LLICA LA 005.d	GeminiC18 3x100 3(mm)
IC 320-233476/6		07/11/2018 15:23	1	2018.07.11LLICA LA 006.d	GeminiC18 3x100 3(mm)
IC 320-233476/7		07/11/2018 15:30	1	2018.07.11LLICA LA 007.d	GeminiC18 3x100 3(mm)
IC 320-233476/8		07/11/2018 15:38	1	2018.07.11LLICA LA 008.d	GeminiC18 3x100 3(mm)
ICB 320-233476/9		07/11/2018 15:46	1	2018.07.11LLICA LA 009.d	GeminiC18 3x100 3(mm)
ICV 320-233476/10		07/11/2018 15:54	1	2018.07.11LLICA LA 010.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Instrument ID: A8_N Start Date: 07/13/2018 00:02

Analysis Batch Number: 233780 End Date: 07/13/2018 01:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCB 320-233780/1		07/13/2018 00:02	1	2018.07.12LLC_004.d	GeminiC18 3x100 3(mm)
CCVL 320-233780/2		07/13/2018 00:10	1	2018.07.12LLC_005.d	GeminiC18 3x100 3(mm)
CCV 320-233780/3 CCVIS		07/13/2018 00:17	1	2018.07.12LLC_035.d	GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:25	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:33	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:41	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:49	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 00:56	100		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:04	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:12	1		GeminiC18 3x100 3(mm)
ZZZZZ		07/13/2018 01:20	1		GeminiC18 3x100 3(mm)
460-159314-4		07/13/2018 01:28	1	2018.07.12LLC_044.d	GeminiC18 3x100 3(mm)
CCV 320-233780/13		07/13/2018 01:36	1	2018.07.12LLC_045.d	GeminiC18 3x100 3(mm)

537 (modified)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Batch Number: 232888 Batch Start Date: 07/07/18 09:22 Batch Analyst: Long, Tyrel W

Batch Method: 3535 Batch End Date: 07/07/18 12:15

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCMPFC_ALL_SU 00082	LCPFC-IS 00068
MB 320-232888/1		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCS 320-232888/2		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
LCSD 320-232888/3		3535, 537 (modified)				250 mL	10.00 mL	500 uL	500 uL
460-159314-D-4	PDI-MW-161-1-I-06262018	3535, 537 (modified)	T	336.25 g	27.85 g	308.4 mL	10.00 mL	500 uL	500 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	LCPFCSP 00155	AnalysisComment				
MB 320-232888/1		3535, 537 (modified)							
LCS 320-232888/2		3535, 537 (modified)		500 uL					
LCSD 320-232888/3		3535, 537 (modified)		500 uL					
460-159314-D-4	PDI-MW-161-1-I-06262018	3535, 537 (modified)	T		Only 110.3 mL of sample eluted throught the SPE cartridge. An average bottle weight of 27.85 was used for the Tare weight. Cloudy and gray in color				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-159314-1

SDG No.:

Batch Number: 232888 Batch Start Date: 07/07/18 09:22 Batch Analyst: Long, Tyrel W

Batch Method: 3535 Batch End Date: 07/07/18 12:15

Batch Notes	
Analyst ID - Aliquot Step	TWL
Balance ID	QA-070
Batch Comment	Client labels match TA lables, TWL 07/07/18
Analyst ID - Final Volume Step	TWL
H2O ID	7/5/18
Hexane ID	1286128
Internal Standard ID#	1277806
Manifold ID	c,g
Methanol ID	1295465
Sodium Hydroxide ID	1285534
Pipette ID	I46345G
Analyst ID - Reagent Drop	TWL
Analyst ID - IS Reagent Drop	TWL
Analyst ID - IS Reagent Drop Witness	JER
Analyst ID - SU Reagent Drop	TWL
Analyst ID - SU Reagent Drop Witness	SKD
Solvent Lot #	1282835
Solvent Name	0.3% NH4OH/MEOH
SOP Number	WS-LC-0025
SPE Cartridge Type	Oasis WAX 500mg
Solid Phase Extraction Disk ID	003837354a

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

Frank Robinson

Amy Picunas	becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.		Job #: 159314
Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days): 14 Days	
State, Zip: NY, 12110		
Phone:	PO #: 77861	
Email: picunasae@cdmsmith.com	WO #:	
Project Name: Former Aluminum Louvre	Project #: 48016917	
Site:	SSOW#:	

Analysis Requested

SUB Work

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
1 POI-TB-06262018	6/26/18	—	—	Water			✓					3	Trip Blank
2 POI-FB-06262018	6/26/18	0830	—	Water			✓					3	Field Blank
3 POI-16-WG-75-06262018	6/26/18	1030	G	Water			✓					3	
4 POI-MW-161-1-I-06262018	6/26/18	1110	G	Water			✓	✓	✓			3	
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-159314 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/26/18 1200	Company: Con	Received by:	Date/Time: 6/26/18 1700	Company: TA		
Relinquished by:	Date/Time: 6/26/18 1645	Company:	Received by:	Date/Time: 6/26/18 17:00	Company: F, K		
Relinquished by:	Date/Time: 6/26/18 1900	Company: F K	Received by:	Date/Time: 6/26/18 1900	Company: TA Edi		

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

2.7/2.7 +RK (1 No C.)

09/10/2018

Page 710 of 714

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159314

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JQ Date: 6/27/18

09/10/2018

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51976.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159314-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/9/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-MW-161-1-I-06262018 (460-159314-4)	6/26/18	11:10 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6/28/18 1800	TAEdi		7/2/18 0910	TA-SAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 25.2°C melt water AK-3

Ver: 09/20/2016

09/10/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 2
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 07/03/18 05:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	25.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159314-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/25/2018 10:54:37 AM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 7
Surrogate Summary 13
Isotope Dilution Summary 14
QC Sample Results 15
QC Association Summary 26
Lab Chronicle 27
Certification Summary 28
Method Summary 29
Sample Summary 30
Chain of Custody 31
Field Data Sheets 34
Receipt Checklists 35

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-159314-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159314-1

Receipt
The samples were received on 6/26/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: PDI-MW-161-1-I-06262018 (460-159314-4) for PFAS analysis. The client was contacted regarding this issue, and the laboratory was instructed to proceed wih analysis. Received at 25.2 degrees Celsius, ice was melted.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method 537 (modified): Results for samples (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C2-PFTeDA: PDI-MW-161-1-I-06262018 (460-159314-4). Re-analysis was performed with concurring results. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-232888 and analytical batch 320-233309 were outside control limits for Perfluoroheptanesulfonic Acid (PFHpS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): Due to the high concentration of Perfluorobutanesulfonic acid (PFBS), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233309 could not be evaluated for accuracy and precision for this analyte. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside control limits: (320-40757-A-1-B MS). The sample was re-analyzed at dilution with improved ISTD response; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. The ISTD is not used to quantitate target analytes; therefore, there is no impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for several analytes in the following samples: (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD). These samples were re-analyzed at dilution with improved IDA recovery; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233780 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Job ID: 460-159314-1 (Continued)

Laboratory: TestAmerica Edison (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3535: The following sample: PDI-MW-161-1-I-06262018 (460-159314-4) were observed to be cloudy gray color after the eluting process. Prep Batch: 320-232888 Method Code: 3535_PFC

Method 3535: Due to the matrix of the following sample PDI-MW-161-1-I-06262018 (460-159314-4), a reduced amount of volume was able to go through the solid phase extraction column due to particulates in the sample,which ended up clogging the column. The reporting limits (RLs) have been adjusted proportionately for the following preparation batch 320-232888.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018 — Lab Sample ID: 460-159314-1

No Detections.

Client Sample ID: PDI-FB-06262018 — Lab Sample ID: 460-159314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-16-WG-75-06262018 — Lab Sample ID: 460-159314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.7		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.58	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-MW-161-1-I-06262018 — Lab Sample ID: 460-159314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.3		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	15		1.0	0.25	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	370		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.1		1.0	0.14	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	14		4.5	0.79	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	19		4.5	1.1	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	19		4.5	1.3	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	15		4.5	0.57	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		4.5	1.9	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	14		4.5	0.61	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	1.5	J	4.5	0.70	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	3.5	J	4.5	0.45	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.5	J	4.5	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	43		4.5	1.2	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:22	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:22	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:22	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:22	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 02:22	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:22	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 02:22	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:22	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:22	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:22	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:22	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:22	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:22	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:22	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:22	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:22	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:22	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:22	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:22	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:22	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:22	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:22	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:22	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:22	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:22	1

Client Sample ID: PDI-TB-06262018

Lab Sample ID: 460-159314-1

Date Collected: 06/26/18 00:00

Matrix: Water

Date Received: 06/26/18 19:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:22*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 02:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 02:22*	*1*

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:45	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:45	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:45	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:45	1
2-Butanone (MEK)	**8.0**		5.0	1.9	ug/L			07/10/18 02:45	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:45	1
Acetone	**15**		5.0	5.0	ug/L			07/10/18 02:45	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:45	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:45	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:45	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:45	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:45	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:45	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:45	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:45	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:45	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:45	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
Methylene Chloride	**4.5**		1.0	0.32	ug/L			07/10/18 02:45	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:45	1

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:45	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:45	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:45	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:45	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:45	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:45*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*07/10/18 02:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 02:45*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 02:45*	*1*

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 09:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:23	1
Acetone	**7.7**		5.0	5.0	ug/L			07/10/18 09:23	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:23	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.22	ug/L			07/10/18 09:23	1

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:23	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:23	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Tetrachloroethene	**2.7**		1.0	0.25	ug/L			07/10/18 09:23	1
Toluene	**0.58**	**J**	1.0	0.38	ug/L			07/10/18 09:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:23	1
Trichloroethene	**85**		1.0	0.31	ug/L			07/10/18 09:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:23	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*		*07/10/18 09:23*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*07/10/18 09:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 09:23*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:23*	*1*

Client Sample ID: PDI-MW-161-1-I-06262018

Lab Sample ID: 460-159314-4

Date Collected: 06/26/18 11:10

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 03:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 03:09	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 03:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 03:09	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 03:09	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 03:09	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 03:09	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 03:09	1
Acetone	**7.3**		5.0	5.0	ug/L			07/10/18 03:09	1

Client Sample ID: PDI-MW-161-1-I-06262018
Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 03:09	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 03:09	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 03:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 03:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 03:09	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 03:09	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 03:09	1
cis-1,2-Dichloroethene	**13**		1.0	0.22	ug/L			07/10/18 03:09	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 03:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 03:09	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 03:09	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 03:09	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 03:09	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Tetrachloroethene	**15**		1.0	0.25	ug/L			07/10/18 03:09	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.24	ug/L			07/10/18 03:09	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 03:09	1
Trichloroethene	**370**		1.0	0.31	ug/L			07/10/18 03:09	1
Trichlorofluoromethane	**1.1**		1.0	0.14	ug/L			07/10/18 03:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 03:09	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 03:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 03:09	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 03:09*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*07/10/18 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 03:09*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 03:09*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.41	0.18	ug/L		07/03/18 20:11	07/05/18 12:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**14**		4.5	0.79	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoropentanoic acid (PFPeA)	**19**		4.5	1.1	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanoic acid (PFHxA)	**19**		4.5	1.3	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanoic acid (PFHpA)	**15**		4.5	0.57	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanoic acid (PFOA)	**39**		4.5	1.9	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorononanoic acid (PFNA)	**14**		4.5	0.61	ng/L		07/07/18 09:25	07/13/18 01:28	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-MW-161-1-I-06262018
Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	**1.5**	**J**	4.5	0.70	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroundecanoic acid (PFUnA)	ND		4.5	2.5	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorododecanoic acid (PFDoA)	ND		4.5	1.2	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotridecanoic Acid (PFTriA)	ND		4.5	2.9	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		4.5	0.66	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorobutanesulfonic acid (PFBS)	**3.5**	**J**	4.5	0.45	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanesulfonic acid (PFHxS)	**3.5**	**J**	4.5	0.39	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		4.5	0.43	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanesulfonic acid (PFOS)	**43**		4.5	1.2	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		4.5	0.73	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctane Sulfonamide (FOSA)	ND		4.5	0.79	ng/L		07/07/18 09:25	07/13/18 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*25*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFBA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFHxA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFNA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDA	*31*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFUnA	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDoA	*26*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
18O2 PFHxS	*34*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOS	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4-PFHpA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFPeA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C3-PFBS	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2-PFTeDA	*21*	*	*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159314-1	PDI-TB-06262018	105	95	102	109
460-159314-2	PDI-FB-06262018	105	96	99	108
460-159314-3	PDI-16-WG-75-06262018	102	99	102	108
460-159314-4	PDI-MW-161-1-I-06262018	105	98	102	108
LCS 460-534740/4	Lab Control Sample	100	98	102	100
LCS 460-534889/4	Lab Control Sample	92	98	100	102
LCSD 460-534740/5	Lab Control Sample Dup	102	102	101	103
LCSD 460-534889/5	Lab Control Sample Dup	98	102	100	101
MB 460-534740/9	Method Blank	98	100	102	109
MB 460-534889/8	Method Blank	101	95	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDoA (25-150)
460-159314-4	PDI-MW-161-1-I-06262018	25	32	35	33	32	31	30	26
LCS 320-232888/2-A	Lab Control Sample	80	87	87	90	91	93	91	88
LCSD 320-232888/3-A	Lab Control Sample Dup	77	83	84	89	89	90	92	85
MB 320-232888/1-A	Method Blank	75	81	79	87	87	88	85	87

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (25-150)	PFOS (25-150)	PFHpA (25-150)	PFPeA (25-150)	3C3-PFBS (25-150)	PFTDA (25-150)		
460-159314-4	PDI-MW-161-1-I-06262018	34	30	35	33	32	21 *		
LCS 320-232888/2-A	Lab Control Sample	92	86	93	81	81	83		
LCSD 320-232888/3-A	Lab Control Sample Dup	87	86	86	82	78	80		
MB 320-232888/1-A	Method Blank	93	85	84	78	77	80		

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFHpA = 13C4-PFHpA
PFPeA = 13C5 PFPeA
13C3-PFBS = 13C3-PFBS
PFTDA = 13C2-PFTeDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534740/9
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 20:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 20:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 20:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 20:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 20:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 20:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 20:53	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 20:53	1
Acetone	ND		5.0	5.0	ug/L			07/09/18 20:53	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 20:53	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 20:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 20:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 20:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 20:53	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 20:53	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 20:53	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 20:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 20:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 20:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 20:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 20:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 20:53	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 20:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 20:53	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 20:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 20:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 20:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 20:53	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*07/09/18 20:53*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*07/09/18 20:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/09/18 20:53*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/09/18 20:53*	*1*

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		94	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		98	77 - 123
1,1-Dichloroethene	20.0	18.7		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	22.2		ug/L		111	55 - 134
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,2-Dichloroethane	20.0	18.7		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.3		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	95.4		ug/L		95	64 - 120
2-Hexanone	100	97.2		ug/L		97	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	107		ug/L		107	39 - 150
Benzene	20.0	20.2		ug/L		101	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	17.4		ug/L		87	10 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Carbon tetrachloride	20.0	19.1		ug/L		95	70 - 132
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dibromochloromethane	20.0	19.7		ug/L		98	73 - 120
Chloroethane	20.0	18.2		ug/L		91	52 - 150
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	19.3		ug/L		97	56 - 131
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	80 - 120
Cyclohexane	20.0	19.1		ug/L		95	56 - 150
Bromodichloromethane	20.0	18.6		ug/L		93	76 - 120
Dichlorodifluoromethane	20.0	18.7		ug/L		93	50 - 131
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	20.7		ug/L		104	80 - 120
Isopropylbenzene	20.0	21.1		ug/L		105	80 - 123
Methyl acetate	40.0	42.2		ug/L		106	66 - 144
Methyl tert-butyl ether	20.0	20.3		ug/L		102	79 - 122
Methylcyclohexane	20.0	18.8		ug/L		94	61 - 145
Methylene Chloride	20.0	18.7		ug/L		94	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	18.1		ug/L		90	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	18.2		ug/L		91	71 - 143
Vinyl chloride	20.0	19.0		ug/L		95	62 - 138
cis-1,3-Dichloropropene	20.0	19.9		ug/L		100	77 - 120
Styrene	20.0	20.0		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72 - 131*

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 120	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9		ug/L		89	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	78 - 120	0	30
1,1-Dichloroethane	20.0	19.1		ug/L		96	77 - 123	2	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	11	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	11	30
1,2-Dichloroethane	20.0	18.4		ug/L		92	76 - 121	2	30
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123	0	30
1,3-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	11	30
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	10	30
2-Butanone (MEK)	100	94.1		ug/L		94	64 - 120	1	30
2-Hexanone	100	93.2		ug/L		93	71 - 125	4	30
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	78 - 124	7	30
Acetone	100	111		ug/L		111	39 - 150	4	30
Benzene	20.0	19.4		ug/L		97	77 - 121	4	30
Bromoform	20.0	19.7		ug/L		99	53 - 120	1	30
Bromomethane	20.0	18.8		ug/L		94	10 - 150	8	30
Carbon disulfide	20.0	17.4		ug/L		87	69 - 133	3	30
Carbon tetrachloride	20.0	17.9		ug/L		89	70 - 132	7	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	5	30
Dibromochloromethane	20.0	18.9		ug/L		94	73 - 120	4	30
Chloroethane	20.0	18.6		ug/L		93	52 - 150	2	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	1	30
Chloromethane	20.0	19.0		ug/L		95	56 - 131	1	30
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120	0	30
Cyclohexane	20.0	18.2		ug/L		91	56 - 150	5	30
Bromodichloromethane	20.0	19.3		ug/L		96	76 - 120	4	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	50 - 131	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/L		91	80 - 120	5	30
1,2-Dibromoethane			20.0	20.2		ug/L		101	80 - 120	3	30
Isopropylbenzene			20.0	20.3		ug/L		101	80 - 123	4	30
Methyl acetate			40.0	44.0		ug/L		110	66 - 144	4	30
Methyl tert-butyl ether			20.0	20.4		ug/L		102	79 - 122	0	30
Methylcyclohexane			20.0	18.2		ug/L		91	61 - 145	3	30
Methylene Chloride			20.0	19.2		ug/L		96	77 - 123	3	30
Tetrachloroethene			20.0	18.8		ug/L		94	78 - 122	4	30
Toluene			20.0	19.1		ug/L		96	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	18.5		ug/L		92	79 - 120	8	30
trans-1,3-Dichloropropene			20.0	19.0		ug/L		95	76 - 120	0	30
Trichloroethene			20.0	17.9		ug/L		89	77 - 120	1	30
Trichlorofluoromethane			20.0	18.0		ug/L		90	71 - 143	1	30
Vinyl chloride			20.0	18.8		ug/L		94	62 - 138	1	30
cis-1,3-Dichloropropene			20.0	19.5		ug/L		97	77 - 120	2	30
Styrene			20.0	19.7		ug/L		99	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 08:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 08:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 08:59	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 08:59	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 08:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 08:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 08:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 08:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 08:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 08:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 08:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 08:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 08:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 08:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 08:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 08:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 08:59	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 08:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 08:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 08:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 08:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*07/10/18 08:59*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 08:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/10/18 08:59*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/10/18 08:59*	*1*

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		100	77 - 123
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	80 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		89	55 - 134
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	76 - 121
1,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 123
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
2-Butanone (MEK)	100	98.4		ug/L		98	64 - 120
2-Hexanone	100	92.0		ug/L		92	71 - 125
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	78 - 124
Acetone	100	98.1		ug/L		98	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	19.5		ug/L		97	53 - 120
Bromomethane	20.0	20.1		ug/L		100	10 - 150
Carbon disulfide	20.0	19.8		ug/L		99	69 - 133
Carbon tetrachloride	20.0	20.3		ug/L		102	70 - 132
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120
Chloroethane	20.0	18.9		ug/L		95	52 - 150
Chloroform	20.0	20.2		ug/L		101	80 - 120
Chloromethane	20.0	19.9		ug/L		100	56 - 131
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 120
Cyclohexane	20.0	21.2		ug/L		106	56 - 150
Bromodichloromethane	20.0	18.9		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	21.7		ug/L		108	50 - 131
Ethylbenzene	20.0	19.3		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 120
Isopropylbenzene	20.0	21.2		ug/L		106	80 - 123
Methyl acetate	40.0	40.1		ug/L		100	66 - 144
Methyl tert-butyl ether	20.0	19.2		ug/L		96	79 - 122
Methylcyclohexane	20.0	21.7		ug/L		109	61 - 145
Methylene Chloride	20.0	19.6		ug/L		98	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.2		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	19.4		ug/L		97	77 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	20.7		ug/L		103	62 - 138
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	77 - 120
Styrene	20.0	20.5		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	19.4		ug/L		97	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	19.5		ug/L		97	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150	0	30
1,1,2-Trichloroethane	20.0	19.1		ug/L		95	78 - 120	2	30
1,1-Dichloroethane	20.0	18.8		ug/L		94	77 - 123	6	30
1,1-Dichloroethene	20.0	19.3		ug/L		97	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	1	30
1,2-Dibromo-3-Chloropropane	20.0	17.6		ug/L		88	55 - 134	1	30
1,2-Dichlorobenzene	20.0	20.3		ug/L		102	80 - 120	1	30
1,2-Dichloroethane	20.0	17.1		ug/L		85	76 - 121	5	30
1,2-Dichloropropane	20.0	19.5		ug/L		98	77 - 123	0	30
1,3-Dichlorobenzene	20.0	19.9		ug/L		99	80 - 120	2	30
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	2	30
2-Butanone (MEK)	100	93.9		ug/L		94	64 - 120	5	30
2-Hexanone	100	93.5		ug/L		94	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)	100	108		ug/L		108	78 - 124	0	30
Acetone	100	92.2		ug/L		92	39 - 150	6	30
Benzene	20.0	20.1		ug/L		100	77 - 121	3	30
Bromoform	20.0	18.7		ug/L		94	53 - 120	4	30
Bromomethane	20.0	17.7		ug/L		88	10 - 150	13	30
Carbon disulfide	20.0	18.7		ug/L		94	69 - 133	6	30
Carbon tetrachloride	20.0	19.8		ug/L		99	70 - 132	3	30
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120	3	30
Dibromochloromethane	20.0	18.3		ug/L		92	73 - 120	3	30
Chloroethane	20.0	18.0		ug/L		90	52 - 150	5	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	3	30
Chloromethane	20.0	17.5		ug/L		88	56 - 131	13	30
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	80 - 120	6	30
Cyclohexane	20.0	20.5		ug/L		103	56 - 150	3	30
Bromodichloromethane	20.0	18.4		ug/L		92	76 - 120	3	30
Dichlorodifluoromethane	20.0	19.5		ug/L		98	50 - 131	10	30
Ethylbenzene	20.0	18.5		ug/L		93	80 - 120	4	30
1,2-Dibromoethane	20.0	19.4		ug/L		97	80 - 120	1	30
Isopropylbenzene	20.0	20.6		ug/L		103	80 - 123	3	30
Methyl acetate	40.0	39.3		ug/L		98	66 - 144	2	30
Methyl tert-butyl ether	20.0	18.6		ug/L		93	79 - 122	3	30
Methylcyclohexane	20.0	20.2		ug/L		101	61 - 145	7	30
Methylene Chloride	20.0	19.0		ug/L		95	77 - 123	3	30
Tetrachloroethene	20.0	19.8		ug/L		99	78 - 122	3	30
Toluene	20.0	19.7		ug/L		99	80 - 120	2	30
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	79 - 120	5	30
trans-1,3-Dichloropropene	20.0	18.3		ug/L		92	76 - 120	4	30
Trichloroethene	20.0	19.2		ug/L		96	77 - 120	1	30
Trichlorofluoromethane	20.0	19.1		ug/L		95	71 - 143	11	30
Vinyl chloride	20.0	18.2		ug/L		91	62 - 138	13	30
cis-1,3-Dichloropropene	20.0	18.7		ug/L		93	77 - 120	4	30
Styrene	20.0	20.0		ug/L		100	80 - 120	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-533324/1-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/03/18 20:11	07/05/18 10:02	1

Lab Sample ID: LCS 460-533324/6-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.245	J	ug/L		31	10 - 137

Lab Sample ID: LCSD 460-533324/7-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.240	J	ug/L		30	10 - 137	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17	ng/L		07/07/18 09:25	07/11/18 01:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFBA	*81*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFHxA	*79*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFNA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDA	*88*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFUnA	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDoA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
18O2 PFHxS	*93*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOS	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4-PFHpA	*84*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFPeA	*78*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C3-PFBS	*77*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2-PFTeDA	*80*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	37.4		ng/L		93	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	64 - 124
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.6		ng/L		94	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	38.4		ng/L		96	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0		ng/L		82	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8		ng/L		93	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9		ng/L		102	67 - 127

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorodecanesulfonic acid (PFDS)			38.6	35.6		ng/L		92	68 - 128		
Perfluorooctane Sulfonamide (FOSA)			40.0	40.0		ng/L		100	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*80*		*25 - 150*
13C4 PFBA	*87*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*93*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C3-PFBS	*81*		*25 - 150*
13C2-PFTeDA	*83*		*25 - 150*

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	36.7		ng/L		92	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)			40.0	36.2		ng/L		90	66 - 126	6	30
Perfluorohexanoic acid (PFHxA)			40.0	38.0		ng/L		95	66 - 126	2	30
Perfluoroheptanoic acid (PFHpA)			40.0	38.8		ng/L		97	66 - 126	4	30
Perfluorooctanoic acid (PFOA)			40.0	39.9		ng/L		100	64 - 124	2	30
Perfluorononanoic acid (PFNA)			40.0	39.1		ng/L		98	68 - 128	3	30
Perfluorodecanoic acid (PFDA)			40.0	38.9		ng/L		97	69 - 129	3	30
Perfluoroundecanoic acid (PFUnA)			40.0	35.3		ng/L		88	60 - 120	3	30
Perfluorododecanoic acid (PFDoA)			40.0	38.1		ng/L		95	71 - 131	1	30
Perfluorotridecanoic Acid (PFTriA)			40.0	33.1		ng/L		83	72 - 132	0	30
Perfluorotetradecanoic acid (PFTeA)			40.0	38.1		ng/L		95	68 - 128	1	30
Perfluorobutanesulfonic acid (PFBS)			35.4	34.3		ng/L		97	73 - 133	4	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.8		ng/L		90	63 - 123	3	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.1		ng/L		100	68 - 128	7	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.0		ng/L		94	67 - 127	8	30
Perfluorodecanesulfonic acid (PFDS)			38.6	34.3		ng/L		89	68 - 128	4	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonamide (FOSA)			40.0	38.0		ng/L		95	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*77*		*25 - 150*
13C4 PFBA	*83*		*25 - 150*
13C2 PFHxA	*84*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*90*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*86*		*25 - 150*
13C5 PFPeA	*82*		*25 - 150*
13C3-PFBS	*78*		*25 - 150*
13C2-PFTeDA	*80*		*25 - 150*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

GC/MS VOA

Analysis Batch: 534740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-1	PDI-TB-06262018	Total/NA	Water	8260C	
460-159314-2	PDI-FB-06262018	Total/NA	Water	8260C	
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8260C	
MB 460-534740/9	Method Blank	Total/NA	Water	8260C	
LCS 460-534740/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534740/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 534889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-3	PDI-16-WG-75-06262018	Total/NA	Water	8260C	
MB 460-534889/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534889/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534889/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 533324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3510C	
MB 460-533324/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 533482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8270C	533324
MB 460-533324/1-A	Method Blank	Total/NA	Water	8270C	533324
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	8270C	533324
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	8270C	533324

LCMS

Prep Batch: 232888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3535	
MB 320-232888/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 233309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-232888/1-A	Method Blank	Total/NA	Water	537 (modified)	232888
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	232888
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	232888

Analysis Batch: 233780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	537 (modified)	232888

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Lab Sample ID: 460-159314-1
Date Collected: 06/26/18 00:00
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:22	VBP	TAL EDI

Client Sample ID: PDI-FB-06262018
Lab Sample ID: 460-159314-2
Date Collected: 06/26/18 08:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:45	VBP	TAL EDI

Client Sample ID: PDI-16-WG-75-06262018
Lab Sample ID: 460-159314-3
Date Collected: 06/26/18 10:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534889	07/10/18 09:23	CJM	TAL EDI

Client Sample ID: PDI-MW-161-1-I-06262018
Lab Sample ID: 460-159314-4
Date Collected: 06/26/18 11:10
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 03:09	VBP	TAL EDI
Total/NA	Prep	3510C			533324	07/03/18 20:11	GXY	TAL EDI
Total/NA	Analysis	8270C		1	533482	07/05/18 12:09	SK	TAL EDI
Total/NA	Prep	3535			232888	07/07/18 09:25	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	233780	07/13/18 01:28	JRB	TAL SAC

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
ANAB	DoD ELAP		L2468	01-20-21
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-19
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-18 *
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-18 *
USDA	Federal		P330-11-00436	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159314-1	PDI-TB-06262018	Water	06/26/18 00:00	06/26/18 19:00
460-159314-2	PDI-FB-06262018	Water	06/26/18 08:30	06/26/18 19:00
460-159314-3	PDI-16-WG-75-06262018	Water	06/26/18 10:30	06/26/18 19:00
460-159314-4	PDI-MW-161-1-I-06262018	Water	06/26/18 11:10	06/26/18 19:00

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159314
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

SUB Work

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of Containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
1 PDI-TB-06262018	6/26/18	—	—	Water			✓					3	Trip Blank
2 PDI-FB-06262018	6/26/18	0830	—	Water			✓					3	Field Blank
3 PDI-16-WG-75-06262018	6/26/18	1030	G	Water			✓					3	
4 PDI-MW-161-1-I-06262018	6/26/18	1110	G	Water			✓	✓	✓			7	
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-159314 Chain of Custody

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/26/18 1200	Company CDM	Received by:	Date/Time: 6/26/18 1200	Company TA		
Relinquished by:	Date/Time: 6/26/18 1645	Company	Received by:	Date/Time: 6/26/18 1700	Company TA		
Relinquished by:	Date/Time: 6/26/18 1900	Company TA	Received by:	Date/Time: 6/26/18 1900	Company TA Edi		
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 08/04/2016

2.7/2.7 +RK // No C.)

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159314

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JG Date: 6/27/18

7/25/2018

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51976.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159314-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/9/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-MW-161-1-I-06262018 (460-159314-4)	6/26/18	11:10 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/28/18 1800	TAEdi		7/2/18 0910	TA-SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 25.2°C melt water AK-3

Ver: 09/20/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

460-159314 Field Sheet

Job._____

Tracking # 4137 2535 0853 SO / PO / FO / UPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes:_____

Therm. ID: **AK-2 / ~~AK-3~~ / AK-5 / AK-6 / HACCP / Other**_____

Ice_____ Wet_____ Gel _____ Other melt water

Cooler Custody Seal: _____

Sample Custody Seal: _____

Cooler ID:_____

Temp: Observed 25.2°C

From: Temp Blank ☒ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☐
Alkalinity has no headspace?	☐	☐	☑
CoC is complete w/o discrepancies?	☑	☐	☐
Samples received within holding time?	☑	☐	☐
Sample preservatives verified?	☑	☐	☐
Cooler compromised/tampered with?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Sample containers have legible labels?	☑	☐	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided.	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Zero headspace?*	☑	☐	☐
Multiphasic samples are not present?	☐	☐	☑
Sample temp OK?	☐	☑	☐
Sample out of temp?	☑	☐	☐

Initials: RM Date: 7/2/18 Time 1220

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

WRIF Hallway

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 2
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 07/03/18 05:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	25.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159314-1
Client Project/Site: Former Aluminum Louvre
Revision: 1

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
9/10/2018 2:22:26 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 7
Surrogate Summary 13
Isotope Dilution Summary 14
QC Sample Results 15
QC Association Summary 26
Lab Chronicle 27
Certification Summary 28
Method Summary 29
Sample Summary 30
Chain of Custody 31
Field Data Sheets 34
Receipt Checklists 35

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

LCMS

Qualifier	Qualifier Description
*	Isotope Dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-159314-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159314-1

Revsied report: A revision was created for the following samples due to a preparation data entry error that resulted in the reporting of high-biased resu PFAS. PDI-MW-161-1-I-06262018 (460-159314-4)

Receipt
The samples were received on 6/26/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

Receipt Exceptions

The following sample was received at the laboratory outside the required temperature criteria: PDI-MW-161-1-I-06262018 (460-159314-4) for PFAS analysis. The client was contacted regarding this issue, and the laboratory was instructed to proceed wih analysis. Received at 25.2 degrees Celsius, ice was melted.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

LCMS
Method 537 (modified): Results for samples (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD) were reported from the analysis of a diluted extract due to high concentration of the target analyte in the analysis of the undiluted extract. The dilution factor was applied to the labeled internal standard area counts and these area counts were within acceptance limits.

Method 537 (modified): The Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit for 13C2-PFTeDA: PDI-MW-161-1-I-06262018 (460-159314-4). Re-analysis was performed with concurring results. Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 320-232888 and analytical batch 320-233309 were outside control limits for Perfluoroheptanesulfonic Acid (PFHpS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 537 (modified): Due to the high concentration of Perfluorobutanesulfonic acid (PFBS), the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233309 could not be evaluated for accuracy and precision for this analyte. The associated laboratory control sample (LCS) met acceptance criteria.

Method 537 (modified): Internal standard (ISTD) response for the following sample was outside control limits: (320-40757-A-1-B MS). The sample was re-analyzed at dilution with improved ISTD response; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. The ISTD is not used to quantitate target analytes; therefore, there is no impact to the data.

Method 537 (modified): Isotope Dilution Analyte (IDA) recoveries are above the method recommended limit for several analytes in the following samples: (320-40757-A-1-A), (320-40757-A-1-B MS) and (320-40757-A-1-C MSD). These samples were re-analyzed at dilution with improved IDA recovery; however, several analytes were diluted below the level of quantitation and as a result these analytes could not be evaluated for accuracy or precision in the matrix spike / matrix spike duplicate (MS/MSD). Therefore, the original set of data was reported. Quantitation by isotope dilution generally precludes any adverse effect on data quality due to elevated IDA recoveries.

Method 537 (modified): Due to the high concentration of several analytes, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 320-232888 and analytical batch 320-233780 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Job ID: 460-159314-1 (Continued)

Laboratory: TestAmerica Edison (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 3535: The following sample: PDI-MW-161-1-I-06262018 (460-159314-4) were observed to be cloudy gray color after the eluting process. Prep Batch: 320-232888 Method Code: 3535_PFC

Method 3535: Due to the matrix of the following sample PDI-MW-161-1-I-06262018 (460-159314-4), a reduced amount of volume was able to go through the solid phase extraction column due to particulates in the sample,which ended up clogging the column. The reporting limits (RLs) have been adjusted proportionately for the following preparation batch 320-232888.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018 — Lab Sample ID: 460-159314-1

No Detections.

Client Sample ID: PDI-FB-06262018 — Lab Sample ID: 460-159314-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.0		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	15		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-16-WG-75-06262018 — Lab Sample ID: 460-159314-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.7		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.9		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	2.7		1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.58	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	85		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-MW-161-1-I-06262018 — Lab Sample ID: 460-159314-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.6		1.0	0.24	ug/L	1		8260C	Total/NA
Acetone	7.3		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	13		1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	15		1.0	0.25	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	0.33	J	1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	370		1.0	0.31	ug/L	1		8260C	Total/NA
Trichlorofluoromethane	1.1		1.0	0.14	ug/L	1		8260C	Total/NA
Perfluorobutanoic acid (PFBA)	5.2		1.6	0.28	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	6.9		1.6	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	6.7		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	5.5		1.6	0.20	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	14		1.6	0.69	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	4.9		1.6	0.22	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.54	J	1.6	0.25	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	1.3	J	1.6	0.16	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.3	J	1.6	0.14	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	15		1.6	0.44	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Date Collected: 06/26/18 00:00
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:22	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:22	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:22	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:22	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:22	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:22	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:22	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:22	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 02:22	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:22	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:22	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 02:22	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:22	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:22	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:22	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:22	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:22	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:22	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:22	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:22	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:22	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:22	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:22	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:22	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:22	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:22	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:22	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 02:22	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:22	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:22	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:22	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:22	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:22	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:22	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:22	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:22	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:22	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:22	1

Client Sample ID: PDI-TB-06262018

Lab Sample ID: 460-159314-1

Date Collected: 06/26/18 00:00
Matrix: Water
Date Received: 06/26/18 19:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:22*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 02:22*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 02:22*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 02:22*	*1*

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30
Matrix: Water
Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 02:45	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 02:45	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 02:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 02:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 02:45	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 02:45	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 02:45	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 02:45	1
2-Butanone (MEK)	**8.0**		5.0	1.9	ug/L			07/10/18 02:45	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 02:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 02:45	1
Acetone	**15**		5.0	5.0	ug/L			07/10/18 02:45	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 02:45	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 02:45	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 02:45	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 02:45	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 02:45	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 02:45	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 02:45	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 02:45	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 02:45	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 02:45	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 02:45	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 02:45	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 02:45	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 02:45	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 02:45	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 02:45	1
Methylene Chloride	**4.5**		1.0	0.32	ug/L			07/10/18 02:45	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 02:45	1

Client Sample ID: PDI-FB-06262018

Lab Sample ID: 460-159314-2

Date Collected: 06/26/18 08:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 02:45	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 02:45	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 02:45	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 02:45	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 02:45	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 02:45	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 02:45	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 02:45	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 02:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 02:45*	*1*
4-Bromofluorobenzene	*96*		*77 - 124*		*07/10/18 02:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 02:45*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 02:45*	*1*

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 09:23	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:23	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:23	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:23	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:23	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:23	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:23	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:23	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:23	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:23	1
Acetone	**7.7**		5.0	5.0	ug/L			07/10/18 09:23	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:23	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:23	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:23	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:23	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:23	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:23	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:23	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:23	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
cis-1,2-Dichloroethene	**1.9**		1.0	0.22	ug/L			07/10/18 09:23	1

Client Sample ID: PDI-16-WG-75-06262018

Lab Sample ID: 460-159314-3

Date Collected: 06/26/18 10:30

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:23	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:23	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:23	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:23	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:23	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:23	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:23	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:23	1
Tetrachloroethene	**2.7**		1.0	0.25	ug/L			07/10/18 09:23	1
Toluene	**0.58**	**J**	1.0	0.38	ug/L			07/10/18 09:23	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:23	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:23	1
Trichloroethene	**85**		1.0	0.31	ug/L			07/10/18 09:23	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:23	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:23	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:23	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:23	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*		*07/10/18 09:23*	*1*
4-Bromofluorobenzene	*99*		*77 - 124*		*07/10/18 09:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 09:23*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:23*	*1*

Client Sample ID: PDI-MW-161-1-I-06262018

Lab Sample ID: 460-159314-4

Date Collected: 06/26/18 11:10

Matrix: Water

Date Received: 06/26/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**1.6**		1.0	0.24	ug/L			07/10/18 03:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 03:09	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 03:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 03:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 03:09	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 03:09	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 03:09	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 03:09	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 03:09	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 03:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 03:09	1
Acetone	**7.3**		5.0	5.0	ug/L			07/10/18 03:09	1

Client Sample ID: PDI-MW-161-1-I-06262018
Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			07/10/18 03:09	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 03:09	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 03:09	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 03:09	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 03:09	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 03:09	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 03:09	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 03:09	1
cis-1,2-Dichloroethene	**13**		1.0	0.22	ug/L			07/10/18 03:09	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 03:09	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 03:09	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 03:09	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 03:09	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 03:09	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 03:09	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 03:09	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 03:09	1
Tetrachloroethene	**15**		1.0	0.25	ug/L			07/10/18 03:09	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 03:09	1
trans-1,2-Dichloroethene	**0.33**	**J**	1.0	0.24	ug/L			07/10/18 03:09	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 03:09	1
Trichloroethene	**370**		1.0	0.31	ug/L			07/10/18 03:09	1
Trichlorofluoromethane	**1.1**		1.0	0.14	ug/L			07/10/18 03:09	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 03:09	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 03:09	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 03:09	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*74 - 132*		*07/10/18 03:09*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*07/10/18 03:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/10/18 03:09*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 03:09*	*1*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.41	0.18	ug/L		07/03/18 20:11	07/05/18 12:09	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	**5.2**		1.6	0.28	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoropentanoic acid (PFPeA)	**6.9**		1.6	0.40	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanoic acid (PFHxA)	**6.7**		1.6	0.47	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanoic acid (PFHpA)	**5.5**		1.6	0.20	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanoic acid (PFOA)	**14**		1.6	0.69	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorononanoic acid (PFNA)	**4.9**		1.6	0.22	ng/L		07/07/18 09:25	07/13/18 01:28	1

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-MW-161-1-I-06262018
Date Collected: 06/26/18 11:10
Date Received: 06/26/18 19:00

Lab Sample ID: 460-159314-4
Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	**0.54**	**J**	1.6	0.25	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.89	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.45	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotridecanoic Acid (PFTriA)	ND		1.6	1.1	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.24	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorobutanesulfonic acid (PFBS)	**1.3**	**J**	1.6	0.16	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorohexanesulfonic acid (PFHxS)	**1.3**	**J**	1.6	0.14	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.15	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctanesulfonic acid (PFOS)	**15**		1.6	0.44	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.26	ng/L		07/07/18 09:25	07/13/18 01:28	1
Perfluorooctane Sulfonamide (FOSA)	ND		1.6	0.28	ng/L		07/07/18 09:25	07/13/18 01:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*25*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFBA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFHxA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFNA	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDA	*31*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFUnA	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2 PFDoA	*26*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
18O2 PFHxS	*34*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4 PFOS	*30*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C4-PFHpA	*35*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C5 PFPeA	*33*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C3-PFBS	*32*		*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*
13C2-PFTeDA	*21*	*	*25 - 150*	*07/07/18 09:25*	*07/13/18 01:28*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159314-1	PDI-TB-06262018	105	95	102	109
460-159314-2	PDI-FB-06262018	105	96	99	108
460-159314-3	PDI-16-WG-75-06262018	102	99	102	108
460-159314-4	PDI-MW-161-1-I-06262018	105	98	102	108
LCS 460-534740/4	Lab Control Sample	100	98	102	100
LCS 460-534889/4	Lab Control Sample	92	98	100	102
LCSD 460-534740/5	Lab Control Sample Dup	102	102	101	103
LCSD 460-534889/5	Lab Control Sample Dup	98	102	100	101
MB 460-534740/9	Method Blank	98	100	102	109
MB 460-534889/8	Method Blank	101	95	100	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFHxA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)	PFDoA (25-150)
460-159314-4	PDI-MW-161-1-I-06262018	25	32	35	33	32	31	30	26
LCS 320-232888/2-A	Lab Control Sample	80	87	87	90	91	93	91	88
LCSD 320-232888/3-A	Lab Control Sample Dup	77	83	84	89	89	90	92	85
MB 320-232888/1-A	Method Blank	75	81	79	87	87	88	85	87

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFHxS (25-150)	PFOS (25-150)	PFHpA (25-150)	PFPeA (25-150)	3C3-PFBS (25-150)	PFTDA (25-150)		
460-159314-4	PDI-MW-161-1-I-06262018	34	30	35	33	32	21 *		
LCS 320-232888/2-A	Lab Control Sample	92	86	93	81	81	83		
LCSD 320-232888/3-A	Lab Control Sample Dup	87	86	86	82	78	80		
MB 320-232888/1-A	Method Blank	93	85	84	78	77	80		

Surrogate Legend

PFOSA = 13C8 FOSA
PFBA = 13C4 PFBA
PFHxA = 13C2 PFHxA
PFOA = 13C4 PFOA
PFNA = 13C5 PFNA
PFDA = 13C2 PFDA
PFUnA = 13C2 PFUnA
PFDoA = 13C2 PFDoA
PFHxS = 18O2 PFHxS
PFOS = 13C4 PFOS
PFHpA = 13C4-PFHpA
PFPeA = 13C5 PFPeA
13C3-PFBS = 13C3-PFBS
PFTDA = 13C2-PFTeDA

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534740/9
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 20:53	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 20:53	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 20:53	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/09/18 20:53	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 20:53	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 20:53	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 20:53	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 20:53	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 20:53	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 20:53	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 20:53	1
Acetone	ND		5.0	5.0	ug/L			07/09/18 20:53	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 20:53	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 20:53	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 20:53	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 20:53	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 20:53	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 20:53	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 20:53	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 20:53	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 20:53	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 20:53	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 20:53	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 20:53	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 20:53	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 20:53	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 20:53	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 20:53	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 20:53	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 20:53	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 20:53	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 20:53	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 20:53	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 20:53	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 20:53	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 20:53	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 20:53	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 20:53	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*		*07/09/18 20:53*	*1*
4-Bromofluorobenzene	*100*		*77 - 124*		*07/09/18 20:53*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*07/09/18 20:53*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/09/18 20:53*	*1*

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		93	75 - 125
1,1,2,2-Tetrachloroethane	20.0	21.8		ug/L		109	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	18.9		ug/L		94	59 - 150
1,1,2-Trichloroethane	20.0	20.2		ug/L		101	78 - 120
1,1-Dichloroethane	20.0	19.5		ug/L		98	77 - 123
1,1-Dichloroethene	20.0	18.7		ug/L		94	74 - 123
1,2,4-Trichlorobenzene	20.0	21.8		ug/L		109	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	22.2		ug/L		111	55 - 134
1,2-Dichlorobenzene	20.0	21.6		ug/L		108	80 - 120
1,2-Dichloroethane	20.0	18.7		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.3		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	20.8		ug/L		104	80 - 120
1,4-Dichlorobenzene	20.0	21.2		ug/L		106	80 - 120
2-Butanone (MEK)	100	95.4		ug/L		95	64 - 120
2-Hexanone	100	97.2		ug/L		97	71 - 125
4-Methyl-2-pentanone (MIBK)	100	109		ug/L		109	78 - 124
Acetone	100	107		ug/L		107	39 - 150
Benzene	20.0	20.2		ug/L		101	77 - 121
Bromoform	20.0	20.0		ug/L		100	53 - 120
Bromomethane	20.0	17.4		ug/L		87	10 - 150
Carbon disulfide	20.0	17.9		ug/L		89	69 - 133
Carbon tetrachloride	20.0	19.1		ug/L		95	70 - 132
Chlorobenzene	20.0	19.6		ug/L		98	80 - 120
Dibromochloromethane	20.0	19.7		ug/L		98	73 - 120
Chloroethane	20.0	18.2		ug/L		91	52 - 150
Chloroform	20.0	19.4		ug/L		97	80 - 120
Chloromethane	20.0	19.3		ug/L		97	56 - 131
cis-1,2-Dichloroethene	20.0	19.1		ug/L		95	80 - 120
Cyclohexane	20.0	19.1		ug/L		95	56 - 150
Bromodichloromethane	20.0	18.6		ug/L		93	76 - 120
Dichlorodifluoromethane	20.0	18.7		ug/L		93	50 - 131
Ethylbenzene	20.0	19.1		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	20.7		ug/L		104	80 - 120
Isopropylbenzene	20.0	21.1		ug/L		105	80 - 123
Methyl acetate	40.0	42.2		ug/L		106	66 - 144
Methyl tert-butyl ether	20.0	20.3		ug/L		102	79 - 122
Methylcyclohexane	20.0	18.8		ug/L		94	61 - 145
Methylene Chloride	20.0	18.7		ug/L		94	77 - 123
Tetrachloroethene	20.0	19.7		ug/L		98	78 - 122
Toluene	20.0	20.0		ug/L		100	80 - 120
trans-1,2-Dichloroethene	20.0	20.1		ug/L		100	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	18.1		ug/L		90	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534740/4
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	18.2		ug/L		91	71 - 143
Vinyl chloride	20.0	19.0		ug/L		95	62 - 138
cis-1,3-Dichloropropene	20.0	19.9		ug/L		100	77 - 120
Styrene	20.0	20.0		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*102*		*80 - 120*
Dibromofluoromethane (Surr)	*100*		*72 - 131*

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	17.9		ug/L		89	75 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	20.6		ug/L		103	74 - 120	6	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	17.9		ug/L		89	59 - 150	5	30
1,1,2-Trichloroethane	20.0	20.1		ug/L		101	78 - 120	0	30
1,1-Dichloroethane	20.0	19.1		ug/L		96	77 - 123	2	30
1,1-Dichloroethene	20.0	18.2		ug/L		91	74 - 123	3	30
1,2,4-Trichlorobenzene	20.0	19.6		ug/L		98	80 - 124	11	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	11	30
1,2-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120	11	30
1,2-Dichloroethane	20.0	18.4		ug/L		92	76 - 121	2	30
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123	0	30
1,3-Dichlorobenzene	20.0	18.7		ug/L		93	80 - 120	11	30
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120	10	30
2-Butanone (MEK)	100	94.1		ug/L		94	64 - 120	1	30
2-Hexanone	100	93.2		ug/L		93	71 - 125	4	30
4-Methyl-2-pentanone (MIBK)	100	102		ug/L		102	78 - 124	7	30
Acetone	100	111		ug/L		111	39 - 150	4	30
Benzene	20.0	19.4		ug/L		97	77 - 121	4	30
Bromoform	20.0	19.7		ug/L		99	53 - 120	1	30
Bromomethane	20.0	18.8		ug/L		94	10 - 150	8	30
Carbon disulfide	20.0	17.4		ug/L		87	69 - 133	3	30
Carbon tetrachloride	20.0	17.9		ug/L		89	70 - 132	7	30
Chlorobenzene	20.0	18.7		ug/L		94	80 - 120	5	30
Dibromochloromethane	20.0	18.9		ug/L		94	73 - 120	4	30
Chloroethane	20.0	18.6		ug/L		93	52 - 150	2	30
Chloroform	20.0	19.6		ug/L		98	80 - 120	1	30
Chloromethane	20.0	19.0		ug/L		95	56 - 131	1	30
cis-1,2-Dichloroethene	20.0	19.0		ug/L		95	80 - 120	0	30
Cyclohexane	20.0	18.2		ug/L		91	56 - 150	5	30
Bromodichloromethane	20.0	19.3		ug/L		96	76 - 120	4	30
Dichlorodifluoromethane	20.0	18.5		ug/L		92	50 - 131	1	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534740/5
Matrix: Water
Analysis Batch: 534740

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.2		ug/L		91	80 - 120	5	30
1,2-Dibromoethane			20.0	20.2		ug/L		101	80 - 120	3	30
Isopropylbenzene			20.0	20.3		ug/L		101	80 - 123	4	30
Methyl acetate			40.0	44.0		ug/L		110	66 - 144	4	30
Methyl tert-butyl ether			20.0	20.4		ug/L		102	79 - 122	0	30
Methylcyclohexane			20.0	18.2		ug/L		91	61 - 145	3	30
Methylene Chloride			20.0	19.2		ug/L		96	77 - 123	3	30
Tetrachloroethene			20.0	18.8		ug/L		94	78 - 122	4	30
Toluene			20.0	19.1		ug/L		96	80 - 120	4	30
trans-1,2-Dichloroethene			20.0	18.5		ug/L		92	79 - 120	8	30
trans-1,3-Dichloropropene			20.0	19.0		ug/L		95	76 - 120	0	30
Trichloroethene			20.0	17.9		ug/L		89	77 - 120	1	30
Trichlorofluoromethane			20.0	18.0		ug/L		90	71 - 143	1	30
Vinyl chloride			20.0	18.8		ug/L		94	62 - 138	1	30
cis-1,3-Dichloropropene			20.0	19.5		ug/L		97	77 - 120	2	30
Styrene			20.0	19.7		ug/L		99	80 - 120	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*101*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 08:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 08:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 08:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 08:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 08:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 08:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 08:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 08:59	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 08:59	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 08:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 08:59	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 08:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 08:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 08:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 08:59	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-534889/8
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 08:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 08:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 08:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 08:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 08:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 08:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 08:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 08:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 08:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 08:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 08:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 08:59	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 08:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 08:59	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 08:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 08:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 08:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 08:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 08:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 08:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 08:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 08:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*74 - 132*		*07/10/18 08:59*	*1*
4-Bromofluorobenzene	*95*		*77 - 124*		*07/10/18 08:59*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*07/10/18 08:59*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/10/18 08:59*	*1*

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.1		ug/L		100	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		100	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.0		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.5		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	19.9		ug/L		100	77 - 123
1,1-Dichloroethene	20.0	20.0		ug/L		100	74 - 123
1,2,4-Trichlorobenzene	20.0	19.7		ug/L		99	80 - 124

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534889/4
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	20.0	17.7		ug/L		89	55 - 134
1,2-Dichlorobenzene	20.0	20.6		ug/L		103	80 - 120
1,2-Dichloroethane	20.0	18.0		ug/L		90	76 - 121
1,2-Dichloropropane	20.0	19.6		ug/L		98	77 - 123
1,3-Dichlorobenzene	20.0	20.3		ug/L		101	80 - 120
1,4-Dichlorobenzene	20.0	20.1		ug/L		101	80 - 120
2-Butanone (MEK)	100	98.4		ug/L		98	64 - 120
2-Hexanone	100	92.0		ug/L		92	71 - 125
4-Methyl-2-pentanone (MIBK)	100	107		ug/L		107	78 - 124
Acetone	100	98.1		ug/L		98	39 - 150
Benzene	20.0	20.7		ug/L		104	77 - 121
Bromoform	20.0	19.5		ug/L		97	53 - 120
Bromomethane	20.0	20.1		ug/L		100	10 - 150
Carbon disulfide	20.0	19.8		ug/L		99	69 - 133
Carbon tetrachloride	20.0	20.3		ug/L		102	70 - 132
Chlorobenzene	20.0	19.8		ug/L		99	80 - 120
Dibromochloromethane	20.0	19.0		ug/L		95	73 - 120
Chloroethane	20.0	18.9		ug/L		95	52 - 150
Chloroform	20.0	20.2		ug/L		101	80 - 120
Chloromethane	20.0	19.9		ug/L		100	56 - 131
cis-1,2-Dichloroethene	20.0	20.5		ug/L		103	80 - 120
Cyclohexane	20.0	21.2		ug/L		106	56 - 150
Bromodichloromethane	20.0	18.9		ug/L		95	76 - 120
Dichlorodifluoromethane	20.0	21.7		ug/L		108	50 - 131
Ethylbenzene	20.0	19.3		ug/L		96	80 - 120
1,2-Dibromoethane	20.0	19.7		ug/L		99	80 - 120
Isopropylbenzene	20.0	21.2		ug/L		106	80 - 123
Methyl acetate	40.0	40.1		ug/L		100	66 - 144
Methyl tert-butyl ether	20.0	19.2		ug/L		96	79 - 122
Methylcyclohexane	20.0	21.7		ug/L		109	61 - 145
Methylene Chloride	20.0	19.6		ug/L		98	77 - 123
Tetrachloroethene	20.0	20.4		ug/L		102	78 - 122
Toluene	20.0	20.2		ug/L		101	80 - 120
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	79 - 120
trans-1,3-Dichloropropene	20.0	19.1		ug/L		96	76 - 120
Trichloroethene	20.0	19.4		ug/L		97	77 - 120
Trichlorofluoromethane	20.0	21.3		ug/L		106	71 - 143
Vinyl chloride	20.0	20.7		ug/L		103	62 - 138
cis-1,3-Dichloropropene	20.0	19.4		ug/L		97	77 - 120
Styrene	20.0	20.5		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*92*		*74 - 132*
4-Bromofluorobenzene	*98*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*102*		*72 - 131*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			20.0	19.4		ug/L		97	75 - 125	3	30
1,1,2,2-Tetrachloroethane			20.0	19.5		ug/L		97	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane			20.0	21.0		ug/L		105	59 - 150	0	30
1,1,2-Trichloroethane			20.0	19.1		ug/L		95	78 - 120	2	30
1,1-Dichloroethane			20.0	18.8		ug/L		94	77 - 123	6	30
1,1-Dichloroethene			20.0	19.3		ug/L		97	74 - 123	3	30
1,2,4-Trichlorobenzene			20.0	19.6		ug/L		98	80 - 124	1	30
1,2-Dibromo-3-Chloropropane			20.0	17.6		ug/L		88	55 - 134	1	30
1,2-Dichlorobenzene			20.0	20.3		ug/L		102	80 - 120	1	30
1,2-Dichloroethane			20.0	17.1		ug/L		85	76 - 121	5	30
1,2-Dichloropropane			20.0	19.5		ug/L		98	77 - 123	0	30
1,3-Dichlorobenzene			20.0	19.9		ug/L		99	80 - 120	2	30
1,4-Dichlorobenzene			20.0	19.8		ug/L		99	80 - 120	2	30
2-Butanone (MEK)			100	93.9		ug/L		94	64 - 120	5	30
2-Hexanone			100	93.5		ug/L		94	71 - 125	2	30
4-Methyl-2-pentanone (MIBK)			100	108		ug/L		108	78 - 124	0	30
Acetone			100	92.2		ug/L		92	39 - 150	6	30
Benzene			20.0	20.1		ug/L		100	77 - 121	3	30
Bromoform			20.0	18.7		ug/L		94	53 - 120	4	30
Bromomethane			20.0	17.7		ug/L		88	10 - 150	13	30
Carbon disulfide			20.0	18.7		ug/L		94	69 - 133	6	30
Carbon tetrachloride			20.0	19.8		ug/L		99	70 - 132	3	30
Chlorobenzene			20.0	19.2		ug/L		96	80 - 120	3	30
Dibromochloromethane			20.0	18.3		ug/L		92	73 - 120	3	30
Chloroethane			20.0	18.0		ug/L		90	52 - 150	5	30
Chloroform			20.0	19.6		ug/L		98	80 - 120	3	30
Chloromethane			20.0	17.5		ug/L		88	56 - 131	13	30
cis-1,2-Dichloroethene			20.0	19.4		ug/L		97	80 - 120	6	30
Cyclohexane			20.0	20.5		ug/L		103	56 - 150	3	30
Bromodichloromethane			20.0	18.4		ug/L		92	76 - 120	3	30
Dichlorodifluoromethane			20.0	19.5		ug/L		98	50 - 131	10	30
Ethylbenzene			20.0	18.5		ug/L		93	80 - 120	4	30
1,2-Dibromoethane			20.0	19.4		ug/L		97	80 - 120	1	30
Isopropylbenzene			20.0	20.6		ug/L		103	80 - 123	3	30
Methyl acetate			40.0	39.3		ug/L		98	66 - 144	2	30
Methyl tert-butyl ether			20.0	18.6		ug/L		93	79 - 122	3	30
Methylcyclohexane			20.0	20.2		ug/L		101	61 - 145	7	30
Methylene Chloride			20.0	19.0		ug/L		95	77 - 123	3	30
Tetrachloroethene			20.0	19.8		ug/L		99	78 - 122	3	30
Toluene			20.0	19.7		ug/L		99	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	19.0		ug/L		95	79 - 120	5	30
trans-1,3-Dichloropropene			20.0	18.3		ug/L		92	76 - 120	4	30
Trichloroethene			20.0	19.2		ug/L		96	77 - 120	1	30
Trichlorofluoromethane			20.0	19.1		ug/L		95	71 - 143	11	30
Vinyl chloride			20.0	18.2		ug/L		91	62 - 138	13	30
cis-1,3-Dichloropropene			20.0	18.7		ug/L		93	77 - 120	4	30
Styrene			20.0	20.0		ug/L		100	80 - 120	2	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534889/5
Matrix: Water
Analysis Batch: 534889

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*74 - 132*
4-Bromofluorobenzene	*102*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*72 - 131*

Method: 8270C - 1,4-Dioxane (GC/MS SIM)

Lab Sample ID: MB 460-533324/1-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 533324

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.40	0.17	ug/L		07/03/18 20:11	07/05/18 10:02	1

Lab Sample ID: LCS 460-533324/6-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.800	0.245	J	ug/L		31	10 - 137

Lab Sample ID: LCSD 460-533324/7-A
Matrix: Water
Analysis Batch: 533482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 533324

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.800	0.240	J	ug/L		30	10 - 137	2	30

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	0.49	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.58	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.25	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.85	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.27	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.31	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	1.1	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.55	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotridecanoic Acid (PFTriA)	ND		2.0	1.3	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.29	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.20	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.17	ng/L		07/07/18 09:25	07/11/18 01:51	1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-232888/1-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 232888

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.19	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.54	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.32	ng/L		07/07/18 09:25	07/11/18 01:51	1
Perfluorooctane Sulfonamide (FOSA)	ND		2.0	0.35	ng/L		07/07/18 09:25	07/11/18 01:51	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C8 FOSA	*75*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFBA	*81*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFHxA	*79*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFNA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDA	*88*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFUnA	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2 PFDoA	*87*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
18O2 PFHxS	*93*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4 PFOS	*85*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C4-PFHpA	*84*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C5 PFPeA	*78*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C3-PFBS	*77*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*
13C2-PFTeDA	*80*		*25 - 150*	*07/07/18 09:25*	*07/11/18 01:51*	*1*

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.3		ng/L		93	70 - 130
Perfluoropentanoic acid (PFPeA)	40.0	38.4		ng/L		96	66 - 126
Perfluorohexanoic acid (PFHxA)	40.0	38.9		ng/L		97	66 - 126
Perfluoroheptanoic acid (PFHpA)	40.0	37.4		ng/L		93	66 - 126
Perfluorooctanoic acid (PFOA)	40.0	39.1		ng/L		98	64 - 124
Perfluorononanoic acid (PFNA)	40.0	40.3		ng/L		101	68 - 128
Perfluorodecanoic acid (PFDA)	40.0	37.6		ng/L		94	69 - 129
Perfluoroundecanoic acid (PFUnA)	40.0	36.5		ng/L		91	60 - 120
Perfluorododecanoic acid (PFDoA)	40.0	38.4		ng/L		96	71 - 131
Perfluorotridecanoic Acid (PFTriA)	40.0	33.0		ng/L		82	72 - 132
Perfluorotetradecanoic acid (PFTeA)	40.0	37.6		ng/L		94	68 - 128
Perfluorobutanesulfonic acid (PFBS)	35.4	35.6		ng/L		101	73 - 133
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.8		ng/L		93	63 - 123
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	41.0		ng/L		108	68 - 128
Perfluorooctanesulfonic acid (PFOS)	37.1	37.9		ng/L		102	67 - 127

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 320-232888/2-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Perfluorodecanesulfonic acid (PFDS)			38.6	35.6		ng/L		92	68 - 128		
Perfluorooctane Sulfonamide (FOSA)			40.0	40.0		ng/L		100	70 - 130		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C8 FOSA	*80*		*25 - 150*
13C4 PFBA	*87*		*25 - 150*
13C2 PFHxA	*87*		*25 - 150*
13C4 PFOA	*90*		*25 - 150*
13C5 PFNA	*91*		*25 - 150*
13C2 PFDA	*93*		*25 - 150*
13C2 PFUnA	*91*		*25 - 150*
13C2 PFDoA	*88*		*25 - 150*
18O2 PFHxS	*92*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*93*		*25 - 150*
13C5 PFPeA	*81*		*25 - 150*
13C3-PFBS	*81*		*25 - 150*
13C2-PFTeDA	*83*		*25 - 150*

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)			40.0	36.7		ng/L		92	70 - 130	2	30
Perfluoropentanoic acid (PFPeA)			40.0	36.2		ng/L		90	66 - 126	6	30
Perfluorohexanoic acid (PFHxA)			40.0	38.0		ng/L		95	66 - 126	2	30
Perfluoroheptanoic acid (PFHpA)			40.0	38.8		ng/L		97	66 - 126	4	30
Perfluorooctanoic acid (PFOA)			40.0	39.9		ng/L		100	64 - 124	2	30
Perfluorononanoic acid (PFNA)			40.0	39.1		ng/L		98	68 - 128	3	30
Perfluorodecanoic acid (PFDA)			40.0	38.9		ng/L		97	69 - 129	3	30
Perfluoroundecanoic acid (PFUnA)			40.0	35.3		ng/L		88	60 - 120	3	30
Perfluorododecanoic acid (PFDoA)			40.0	38.1		ng/L		95	71 - 131	1	30
Perfluorotridecanoic Acid (PFTriA)			40.0	33.1		ng/L		83	72 - 132	0	30
Perfluorotetradecanoic acid (PFTeA)			40.0	38.1		ng/L		95	68 - 128	1	30
Perfluorobutanesulfonic acid (PFBS)			35.4	34.3		ng/L		97	73 - 133	4	30
Perfluorohexanesulfonic acid (PFHxS)			36.4	32.8		ng/L		90	63 - 123	3	30
Perfluoroheptanesulfonic Acid (PFHpS)			38.1	38.1		ng/L		100	68 - 128	7	30
Perfluorooctanesulfonic acid (PFOS)			37.1	35.0		ng/L		94	67 - 127	8	30
Perfluorodecanesulfonic acid (PFDS)			38.6	34.3		ng/L		89	68 - 128	4	30

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCSD 320-232888/3-A
Matrix: Water
Analysis Batch: 233309

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 232888

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctane Sulfonamide (FOSA)			40.0	38.0		ng/L		95	70 - 130	5	30

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C8 FOSA	*77*		*25 - 150*
13C4 PFBA	*83*		*25 - 150*
13C2 PFHxA	*84*		*25 - 150*
13C4 PFOA	*89*		*25 - 150*
13C5 PFNA	*89*		*25 - 150*
13C2 PFDA	*90*		*25 - 150*
13C2 PFUnA	*92*		*25 - 150*
13C2 PFDoA	*85*		*25 - 150*
18O2 PFHxS	*87*		*25 - 150*
13C4 PFOS	*86*		*25 - 150*
13C4-PFHpA	*86*		*25 - 150*
13C5 PFPeA	*82*		*25 - 150*
13C3-PFBS	*78*		*25 - 150*
13C2-PFTeDA	*80*		*25 - 150*

GC/MS VOA

Analysis Batch: 534740

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-1	PDI-TB-06262018	Total/NA	Water	8260C	
460-159314-2	PDI-FB-06262018	Total/NA	Water	8260C	
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8260C	
MB 460-534740/9	Method Blank	Total/NA	Water	8260C	
LCS 460-534740/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534740/5	Lab Control Sample Dup	Total/NA	Water	8260C	

Analysis Batch: 534889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-3	PDI-16-WG-75-06262018	Total/NA	Water	8260C	
MB 460-534889/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534889/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534889/5	Lab Control Sample Dup	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 533324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3510C	
MB 460-533324/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 533482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	8270C	533324
MB 460-533324/1-A	Method Blank	Total/NA	Water	8270C	533324
LCS 460-533324/6-A	Lab Control Sample	Total/NA	Water	8270C	533324
LCSD 460-533324/7-A	Lab Control Sample Dup	Total/NA	Water	8270C	533324

LCMS

Prep Batch: 232888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	3535	
MB 320-232888/1-A	Method Blank	Total/NA	Water	3535	
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	3535	
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	3535	

Analysis Batch: 233309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-232888/1-A	Method Blank	Total/NA	Water	537 (modified)	232888
LCS 320-232888/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	232888
LCSD 320-232888/3-A	Lab Control Sample Dup	Total/NA	Water	537 (modified)	232888

Analysis Batch: 233780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159314-4	PDI-MW-161-1-I-06262018	Total/NA	Water	537 (modified)	232888

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Client Sample ID: PDI-TB-06262018
Lab Sample ID: 460-159314-1
Date Collected: 06/26/18 00:00
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:22	VBP	TAL EDI

Client Sample ID: PDI-FB-06262018
Lab Sample ID: 460-159314-2
Date Collected: 06/26/18 08:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 02:45	VBP	TAL EDI

Client Sample ID: PDI-16-WG-75-06262018
Lab Sample ID: 460-159314-3
Date Collected: 06/26/18 10:30
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534889	07/10/18 09:23	CJM	TAL EDI

Client Sample ID: PDI-MW-161-1-I-06262018
Lab Sample ID: 460-159314-4
Date Collected: 06/26/18 11:10
Matrix: Water
Date Received: 06/26/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534740	07/10/18 03:09	VBP	TAL EDI
Total/NA	Prep	3510C			533324	07/03/18 20:11	GXY	TAL EDI
Total/NA	Analysis	8270C		1	533482	07/05/18 12:09	SK	TAL EDI
Total/NA	Prep	3535			232888	07/07/18 09:25	TWL	TAL SAC
Total/NA	Analysis	537 (modified)		1	233780	07/13/18 01:28	JRB	TAL SAC

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	17-020	01-20-21
ANAB	DoD ELAP		L2468	01-20-21
Arizona	State Program	9	AZ0708	08-11-19
Arkansas DEQ	State Program	6	88-0691	06-17-19
California	State Program	9	2897	01-31-19
Colorado	State Program	8	CA00044	08-31-19
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-19
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-19
Illinois	NELAP	5	200060	03-17-19
Kansas	NELAP	7	E-10375	10-31-18
Louisiana	NELAP	6	30612	06-30-19
Maine	State Program	1	CA0004	04-14-20
Michigan	State Program	5	9947	01-31-20
Nevada	State Program	9	CA00044	07-31-19
New Hampshire	NELAP	1	2997	04-18-19
New Jersey	NELAP	2	CA005	06-30-19
New York	NELAP	2	11666	03-31-19
Oregon	NELAP	10	4040	01-29-19
Pennsylvania	NELAP	3	68-01272	03-31-19
Texas	NELAP	6	T104704399	05-31-19
US Fish & Wildlife	Federal		LE148388-0	07-31-19
USDA	Federal		P330-18-00239	01-17-21
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-19
Vermont	State Program	1	VT-4040	04-30-19
Virginia	NELAP	3	460278	03-14-19
Washington	State Program	10	C581	05-05-19
West Virginia (DW)	State Program	3	9930C	12-31-18
Wyoming	State Program	8	8TMS-L	01-28-19

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8270C	1,4-Dioxane (GC/MS SIM)	SW846	TAL EDI
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL SAC
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL EDI
3535	Solid-Phase Extraction (SPE)	SW846	TAL SAC
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159314-1	PDI-TB-06262018	Water	06/26/18 00:00	06/26/18 19:00
460-159314-2	PDI-FB-06262018	Water	06/26/18 08:30	06/26/18 19:00
460-159314-3	PDI-16-WG-75-06262018	Water	06/26/18 10:30	06/26/18 19:00
460-159314-4	PDI-MW-161-1-I-06262018	Water	06/26/18 11:10	06/26/18 19:00

Frank Robinson

Amy Picunas		becky.mason@testamericainc.com	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159314
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days): 14 Days		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

SUB Work

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of Containers	Special Instructions/Note:
Preservation Code:							A	N	N	A	N		
1 POI-TB-06262018	6/26/18	—	—	Water			✓					3	Trip Blank
2 POI-FB-06262018	6/26/18	0830	—	Water			✓					3	Field Blank
3 POI-16-WG-75-06262018	6/26/18	1030	G	Water			✓					3	
4 POI-MW-161-1-I-06262018	6/26/18	1110	G	Water			✓	✓	✓			7	
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

460-159314 Chain of Custody

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/26/18	1200	Company CDM	Received by:	Date/Time: 6/26/18	12:00	Company TA
Relinquished by:	Date/Time: 6/26/18	1645	Company	Received by:	Date/Time: 6/26/18	17:05	Company TA
Relinquished by:	Date/Time: 6/26/18	1900	Company TA	Received by:	Date/Time: 6/26/18	1900	Company TA
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:			Cooler Temperature(s) °C and Other Remarks:			

Ver: 08/04/2016

2.7/2.7 +RK (1 No C.)

9/10/2018 (Rev. 1)

Page 31 of 36

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159314

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.7 °C	2.7 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: JG Date: 6/27/18

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51976.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159314-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 7/9/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC_IDA/3535_PFC PFAS, Standard List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-MW-161-1-I-06262018 (460-159314-4)	6/26/18	11:10 Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/28/18 1800	TAEdi		7/2/18 0910	TA-SAC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 25.2°C melt water AK-3

Ver: 09/20/2016

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

460-159314 Field Sheet

Job._____

Tracking # 4137 2535 0853 SO / PO / FO / UPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes:_____

Therm. ID: **AK-2 / ~~AK-3~~ / AK-5 / AK-6 / HACCP / Other**_____

Ice_____ Wet_____ Gel _____ Other melt water

Cooler Custody Seal: _____

Sample Custody Seal: _____

Cooler ID:_____

Temp: Observed 25.2°C

From: Temp Blank ☒ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☑
Alkalinity has no headspace?	☐	☐	☑
CoC is complete w/o discrepancies?	☑	☐	☐
Samples received within holding time?	☑	☐	☐
Sample preservatives verified?	☑	☐	☑
Cooler compromised/tampered with?	☐	☑	☐
Samples compromised/tampered with?	☐	☑	☐
Samples w/o discrepancies?	☑	☐	☐
Sample containers have legible labels?	☑	☐	☐
Containers are not broken or leaking?	☑	☐	☐
Sample date/times are provided.	☑	☐	☐
Appropriate containers are used?	☑	☐	☐
Sample bottles are completely filled?	☑	☐	☐
Zero headspace?*	☑	☐	☐
Multiphasic samples are not present?	☐	☐	☑
Sample temp OK?	☐	☑	☐
Sample out of temp?	☑	☐	☐

Initials: TH Date: 7/2/18 Time 1220

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

WRIF Hallway

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 1
Creator: Jara, Kelly D

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159314-1

Login Number: 159314
List Number: 2
Creator: Gooch, Mayce

List Source: TestAmerica Sacramento
List Creation: 07/03/18 05:27 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Water present in cooler; indicates evidence of melted ice.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	25.2c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159396-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/12/2018 1:52 PM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/12/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 12

QC Sample Results 13

Definitions 17

QC Association 18

Chronicle 19

Certification Summary 20

Organic Sample Data 21

GC/MS VOA 21

8260C 21

8260C QC Summary 22

8260C Sample Data 32

Standards Data 61

8260C ICAL Data 61

8260C CCAL Data 187

Raw QC Data 199

8260C Tune Data 199

8260C Blank Data 205

8260C LCS/LCSD Data 210

8260C Run Logs 224

Table of Contents

8260C Prep Data 226

Shipping and Receiving Documents 227

Client Chain of Custody 228

Sample Receipt Checklist 230

Job Narrative
460-159396-1

Receipt
The samples were received on 6/27/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-534856 was outside the method criteria for the following analytes: Bromomethane (bias low) and Methyl acetate (bias high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-534856 recovered outside control limits for 2-Hexanone.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159396-1	PDI-TB-06272018	Water	06/27/18 00:00	06/27/18 19:40
460-159396-2	PDI-FB-06272018	Water	06/27/18 09:20	06/27/18 19:40
460-159396-3	PDI-17-WG-75-06272018	Water	06/27/18 13:20	06/27/18 19:40

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Client Sample ID: PDI-TB-06272018 — Lab Sample ID: 460-159396-1

No Detections.

Client Sample ID: PDI-FB-06272018 — Lab Sample ID: 460-159396-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.6		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	10		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	6.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-17-WG-75-06272018 — Lab Sample ID: 460-159396-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.66	J	1.0	0.54	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.69	J	1.0	0.28	ug/L	1		8260C	Total/NA
Chloroform	0.55	J	1.0	0.33	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.59	J	1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.25	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	3.8		1.0	0.31	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-TB-06272018

Date Collected: 06/27/18 00:00
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159396-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:32	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:32	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:32	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:32	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:32	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:32	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:32	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 09:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:32	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 09:32	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:32	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:32	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:32	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:32	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:32	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:32	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:32	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:32	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:32	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:32	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:32	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:32	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:32	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:32	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:32	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:32	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:32	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:32	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:32	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:32	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:32	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:32	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:32	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:32	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:32	1

Client Sample ID: PDI-TB-06272018

Lab Sample ID: 460-159396-1

Date Collected: 06/27/18 00:00

Matrix: Water

Date Received: 06/27/18 19:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*114*		*74 - 132*		*07/10/18 09:32*	*1*
4-Bromofluorobenzene	*90*		*77 - 124*		*07/10/18 09:32*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/10/18 09:32*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:32*	*1*

Client Sample ID: PDI-FB-06272018

Lab Sample ID: 460-159396-2

Date Collected: 06/27/18 09:20

Matrix: Water

Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:59	1
2-Butanone (MEK)	**7.6**		5.0	1.9	ug/L			07/10/18 09:59	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 09:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:59	1
Acetone	**10**		5.0	5.0	ug/L			07/10/18 09:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:59	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:59	1
Methylene Chloride	**6.5**		1.0	0.32	ug/L			07/10/18 09:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:59	1

Client Sample ID: PDI-FB-06272018

Lab Sample ID: 460-159396-2

Date Collected: 06/27/18 09:20

Matrix: Water

Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*07/10/18 09:59*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/10/18 09:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 09:59*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 09:59*	*1*

Client Sample ID: PDI-17-WG-75-06272018

Lab Sample ID: 460-159396-3

Date Collected: 06/27/18 13:20

Matrix: Water

Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 10:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 10:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 10:26	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 10:26	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 10:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 10:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 10:26	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 10:26	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 10:26	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 10:26	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 10:26	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 10:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 10:26	1
Acetone	**6.4**		5.0	5.0	ug/L			07/10/18 10:26	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 10:26	1
Bromoform	**0.66**	**J**	1.0	0.54	ug/L			07/10/18 10:26	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 10:26	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 10:26	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 10:26	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 10:26	1
Dibromochloromethane	**0.69**	**J**	1.0	0.28	ug/L			07/10/18 10:26	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Chloroform	**0.55**	**J**	1.0	0.33	ug/L			07/10/18 10:26	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 10:26	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 10:26	1

Client Sample ID: PDI-17-WG-75-06272018

Date Collected: 06/27/18 13:20
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159396-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Bromodichloromethane	**0.59**	**J**	1.0	0.34	ug/L			07/10/18 10:26	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 10:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 10:26	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 10:26	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 10:26	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 10:26	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 10:26	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 10:26	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Tetrachloroethene	**0.25**	**J**	1.0	0.25	ug/L			07/10/18 10:26	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 10:26	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 10:26	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 10:26	1
Trichloroethene	**3.8**		1.0	0.31	ug/L			07/10/18 10:26	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 10:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 10:26	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 10:26	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 10:26	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*07/10/18 10:26*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*07/10/18 10:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/10/18 10:26*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 10:26*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159396-1	PDI-TB-06272018	114	90	98	108
460-159396-2	PDI-FB-06272018	115	89	99	109
460-159396-3	PDI-17-WG-75-06272018	115	91	98	109
LCS 460-534856/3	Lab Control Sample	110	92	100	103
LCSD 460-534856/4	Lab Control Sample Dup	111	93	100	105
MB 460-534856/8	Method Blank	112	89	98	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534856/8
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:05	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:05	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:05	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:05	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:05	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:05	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:05	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:05	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 09:05	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:05	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:05	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:05	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:05	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:05	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:05	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:05	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:05	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:05	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:05	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:05	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:05	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:05	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:05	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:05	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:05	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:05	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:05	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:05	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:05	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:05	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:05	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:05	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:05	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:05	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:05	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:05	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*07/10/18 09:05*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/10/18 09:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/10/18 09:05*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:05*	*1*

Lab Sample ID: LCS 460-534856/3
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	22.2		ug/L		111	77 - 123
1,1-Dichloroethene	20.0	19.6		ug/L		98	74 - 123
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	55 - 134
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	21.2		ug/L		106	76 - 121
1,2-Dichloropropane	20.0	20.8		ug/L		104	77 - 123
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
2-Butanone (MEK)	100	74.2		ug/L		74	64 - 120
2-Hexanone	100	68.4	*	ug/L		68	71 - 125
4-Methyl-2-pentanone (MIBK)	100	87.8		ug/L		88	78 - 124
Acetone	100	79.3		ug/L		79	39 - 150
Benzene	20.0	20.5		ug/L		102	77 - 121
Bromoform	20.0	20.4		ug/L		102	53 - 120
Bromomethane	20.0	18.1		ug/L		91	10 - 150
Carbon disulfide	20.0	21.6		ug/L		108	69 - 133
Carbon tetrachloride	20.0	21.1		ug/L		106	70 - 132
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120
Dibromochloromethane	20.0	20.3		ug/L		102	73 - 120
Chloroethane	20.0	23.4		ug/L		117	52 - 150
Chloroform	20.0	20.9		ug/L		105	80 - 120
Chloromethane	20.0	19.8		ug/L		99	56 - 131
cis-1,2-Dichloroethene	20.0	18.3		ug/L		92	80 - 120
Cyclohexane	20.0	19.6		ug/L		98	56 - 150
Bromodichloromethane	20.0	20.3		ug/L		102	76 - 120
Dichlorodifluoromethane	20.0	20.3		ug/L		101	50 - 131
Ethylbenzene	20.0	17.9		ug/L		89	80 - 120
1,2-Dibromoethane	20.0	19.1		ug/L		95	80 - 120
Isopropylbenzene	20.0	18.3		ug/L		92	80 - 123
Methyl acetate	40.0	50.0		ug/L		125	66 - 144
Methyl tert-butyl ether	20.0	21.5		ug/L		108	79 - 122
Methylcyclohexane	20.0	20.0		ug/L		100	61 - 145
Methylene Chloride	20.0	20.7		ug/L		103	77 - 123
Tetrachloroethene	20.0	19.3		ug/L		97	78 - 122
Toluene	20.0	18.8		ug/L		94	80 - 120
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	79 - 120
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	76 - 120
Trichloroethene	20.0	18.6		ug/L		93	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534856/3
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	22.1		ug/L		111	71 - 143
Vinyl chloride	20.0	21.3		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	77 - 120
Styrene	20.0	18.4		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*
4-Bromofluorobenzene	*92*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: LCSD 460-534856/4
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	75 - 125	5	30
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		99	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/L		108	59 - 150	2	30
1,1,2-Trichloroethane	20.0	19.7		ug/L		98	78 - 120	0	30
1,1-Dichloroethane	20.0	23.0		ug/L		115	77 - 123	4	30
1,1-Dichloroethene	20.0	19.8		ug/L		99	74 - 123	1	30
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		103	80 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	1	30
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120	1	30
1,2-Dichloroethane	20.0	21.8		ug/L		109	76 - 121	3	30
1,2-Dichloropropane	20.0	21.3		ug/L		106	77 - 123	2	30
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120	6	30
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	3	30
2-Butanone (MEK)	100	77.6		ug/L		78	64 - 120	4	30
2-Hexanone	100	69.3	*	ug/L		69	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)	100	90.6		ug/L		91	78 - 124	3	30
Acetone	100	80.8		ug/L		81	39 - 150	2	30
Benzene	20.0	20.7		ug/L		104	77 - 121	1	30
Bromoform	20.0	20.7		ug/L		104	53 - 120	2	30
Bromomethane	20.0	20.9		ug/L		104	10 - 150	14	30
Carbon disulfide	20.0	22.0		ug/L		110	69 - 133	2	30
Carbon tetrachloride	20.0	21.3		ug/L		106	70 - 132	1	30
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120	1	30
Dibromochloromethane	20.0	20.4		ug/L		102	73 - 120	1	30
Chloroethane	20.0	23.2		ug/L		116	52 - 150	1	30
Chloroform	20.0	21.4		ug/L		107	80 - 120	2	30
Chloromethane	20.0	19.4		ug/L		97	56 - 131	2	30
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 120	1	30
Cyclohexane	20.0	20.3		ug/L		101	56 - 150	3	30
Bromodichloromethane	20.0	21.0		ug/L		105	76 - 120	3	30
Dichlorodifluoromethane	20.0	20.2		ug/L		101	50 - 131	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534856/4
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.0		ug/L		90	80 - 120	1	30
1,2-Dibromoethane			20.0	19.2		ug/L		96	80 - 120	1	30
Isopropylbenzene			20.0	19.0		ug/L		95	80 - 123	3	30
Methyl acetate			40.0	51.2		ug/L		128	66 - 144	2	30
Methyl tert-butyl ether			20.0	22.5		ug/L		113	79 - 122	5	30
Methylcyclohexane			20.0	20.3		ug/L		102	61 - 145	2	30
Methylene Chloride			20.0	21.2		ug/L		106	77 - 123	3	30
Tetrachloroethene			20.0	19.3		ug/L		96	78 - 122	0	30
Toluene			20.0	19.3		ug/L		96	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	20.3		ug/L		101	79 - 120	5	30
trans-1,3-Dichloropropene			20.0	20.9		ug/L		105	76 - 120	4	30
Trichloroethene			20.0	19.4		ug/L		97	77 - 120	4	30
Trichlorofluoromethane			20.0	21.3		ug/L		106	71 - 143	4	30
Vinyl chloride			20.0	20.4		ug/L		102	62 - 138	4	30
cis-1,3-Dichloropropene			20.0	20.7		ug/L		104	77 - 120	2	30
Styrene			20.0	18.7		ug/L		94	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*72 - 131*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

GC/MS VOA

Analysis Batch: 534856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159396-1	PDI-TB-06272018	Total/NA	Water	8260C	
460-159396-2	PDI-FB-06272018	Total/NA	Water	8260C	
460-159396-3	PDI-17-WG-75-06272018	Total/NA	Water	8260C	
MB 460-534856/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534856/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534856/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Client Sample ID: PDI-TB-06272018
Lab Sample ID: 460-159396-1
Date Collected: 06/27/18 00:00
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 09:32	AAT	TAL EDI

Client Sample ID: PDI-FB-06272018
Lab Sample ID: 460-159396-2
Date Collected: 06/27/18 09:20
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 09:59	AAT	TAL EDI

Client Sample ID: PDI-17-WG-75-06272018
Lab Sample ID: 460-159396-3
Date Collected: 06/27/18 13:20
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 10:26	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159396-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06272018	460-159396-1	108	114	98	90
PDI-FB-06272018	460-159396-2	109	115	99	89
PDI-17-WG-75-06272018	460-159396-3	109	115	98	91
	MB 460-534856/8	108	112	98	89
	LCS 460-534856/3	103	110	100	92
	LCSD 460-534856/4	105	111	100	93

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J72289.D

Lab ID: LCS 460-534856/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.9	99	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.4	97	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1	105	59-150	
1,1,2-Trichloroethane	20.0	19.6	98	78-120	
1,1-Dichloroethane	20.0	22.2	111	77-123	
1,1-Dichloroethene	20.0	19.6	98	74-123	
1,2,4-Trichlorobenzene	20.0	20.6	103	80-124	
1,2-Dibromo-3-Chloropropane	20.0	19.8	99	55-134	
1,2-Dichlorobenzene	20.0	19.0	95	80-120	
1,2-Dichloroethane	20.0	21.2	106	76-121	
1,2-Dichloropropane	20.0	20.8	104	77-123	
1,3-Dichlorobenzene	20.0	19.4	97	80-120	
1,4-Dichlorobenzene	20.0	19.2	96	80-120	
2-Butanone (MEK)	100	74.2	74	64-120	
2-Hexanone	100	68.4	68	71-125	*
4-Methyl-2-pentanone (MIBK)	100	87.8	88	78-124	
Acetone	100	79.3	79	39-150	
Benzene	20.0	20.5	102	77-121	
Bromoform	20.0	20.4	102	53-120	
Bromomethane	20.0	18.1	91	10-150	
Carbon disulfide	20.0	21.6	108	69-133	
Carbon tetrachloride	20.0	21.1	106	70-132	
Chlorobenzene	20.0	19.2	96	80-120	
Dibromochloromethane	20.0	20.3	102	73-120	
Chloroethane	20.0	23.4	117	52-150	
Chloroform	20.0	20.9	105	80-120	
Chloromethane	20.0	19.8	99	56-131	
cis-1,2-Dichloroethene	20.0	18.3	92	80-120	
Cyclohexane	20.0	19.6	98	56-150	
Bromodichloromethane	20.0	20.3	102	76-120	
Dichlorodifluoromethane	20.0	20.3	101	50-131	
Ethylbenzene	20.0	17.9	89	80-120	
1,2-Dibromoethane	20.0	19.1	95	80-120	
Isopropylbenzene	20.0	18.3	92	80-123	
Methyl acetate	40.0	50.0	125	66-144	
Methyl tert-butyl ether	20.0	21.5	108	79-122	
Methylcyclohexane	20.0	20.0	100	61-145	
Methylene Chloride	20.0	20.7	103	77-123	
Tetrachloroethene	20.0	19.3	97	78-122	
Toluene	20.0	18.8	94	80-120	
trans-1,2-Dichloroethene	20.0	19.2	96	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J72289.D

Lab ID: LCS 460-534856/3 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.2	101	76-120	
Trichloroethene	20.0	18.6	93	77-120	
Trichlorofluoromethane	20.0	22.1	111	71-143	
Vinyl chloride	20.0	21.3	106	62-138	
cis-1,3-Dichloropropene	20.0	20.4	102	77-120	
Styrene	20.0	18.4	92	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J72290.D

Lab ID: LCSD 460-534856/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.8	104	5	30	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.9	99	2	30	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6	108	2	30	59-150	
1,1,2-Trichloroethane	20.0	19.7	98	0	30	78-120	
1,1-Dichloroethane	20.0	23.0	115	4	30	77-123	
1,1-Dichloroethene	20.0	19.8	99	1	30	74-123	
1,2,4-Trichlorobenzene	20.0	20.7	103	0	30	80-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	1	30	55-134	
1,2-Dichlorobenzene	20.0	19.1	96	1	30	80-120	
1,2-Dichloroethane	20.0	21.8	109	3	30	76-121	
1,2-Dichloropropane	20.0	21.3	106	2	30	77-123	
1,3-Dichlorobenzene	20.0	20.4	102	6	30	80-120	
1,4-Dichlorobenzene	20.0	19.8	99	3	30	80-120	
2-Butanone (MEK)	100	77.6	78	4	30	64-120	
2-Hexanone	100	69.3	69	1	30	71-125	*
4-Methyl-2-pentanone (MIBK)	100	90.6	91	3	30	78-124	
Acetone	100	80.8	81	2	30	39-150	
Benzene	20.0	20.7	104	1	30	77-121	
Bromoform	20.0	20.7	104	2	30	53-120	
Bromomethane	20.0	20.9	104	14	30	10-150	
Carbon disulfide	20.0	22.0	110	2	30	69-133	
Carbon tetrachloride	20.0	21.3	106	1	30	70-132	
Chlorobenzene	20.0	19.3	97	1	30	80-120	
Dibromochloromethane	20.0	20.4	102	1	30	73-120	
Chloroethane	20.0	23.2	116	1	30	52-150	
Chloroform	20.0	21.4	107	2	30	80-120	
Chloromethane	20.0	19.4	97	2	30	56-131	
cis-1,2-Dichloroethene	20.0	18.4	92	1	30	80-120	
Cyclohexane	20.0	20.3	101	3	30	56-150	
Bromodichloromethane	20.0	21.0	105	3	30	76-120	
Dichlorodifluoromethane	20.0	20.2	101	0	30	50-131	
Ethylbenzene	20.0	18.0	90	1	30	80-120	
1,2-Dibromoethane	20.0	19.2	96	1	30	80-120	
Isopropylbenzene	20.0	19.0	95	3	30	80-123	
Methyl acetate	40.0	51.2	128	2	30	66-144	
Methyl tert-butyl ether	20.0	22.5	113	5	30	79-122	
Methylcyclohexane	20.0	20.3	102	2	30	61-145	
Methylene Chloride	20.0	21.2	106	3	30	77-123	
Tetrachloroethene	20.0	19.3	96	0	30	78-122	
Toluene	20.0	19.3	96	2	30	80-120	
trans-1,2-Dichloroethene	20.0	20.3	101	5	30	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Matrix: Water Level: Low Lab File ID: J72290.D

Lab ID: LCSD 460-534856/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.9	105	4	30	76-120	
Trichloroethene	20.0	19.4	97	4	30	77-120	
Trichlorofluoromethane	20.0	21.3	106	4	30	71-143	
Vinyl chloride	20.0	20.4	102	4	30	62-138	
cis-1,3-Dichloropropene	20.0	20.7	104	2	30	77-120	
Styrene	20.0	18.7	94	2	30	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab File ID: J72294.D Lab Sample ID: MB 460-534856/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS8 Date Analyzed: 07/10/2018 09:05

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534856/3	J72289.D	07/10/2018 06:50
	LCSD 460-534856/4	J72290.D	07/10/2018 07:17
PDI-TB-06272018	460-159396-1	J72295.D	07/10/2018 09:32
PDI-FB-06272018	460-159396-2	J72296.D	07/10/2018 09:59
PDI-17-WG-75-06272018	460-159396-3	J72297.D	07/10/2018 10:26

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab File ID: J71641.D BFB Injection Date: 06/26/2018

Instrument ID: CVOAMS8 BFB Injection Time: 20:16

Analysis Batch No.: 531219

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	18.1	
75	30.0 - 60.0 % of mass 95	47.3	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	91.5	
175	5.0 - 9.0 % of mass 174	7.5	(8.2) 1
176	95.0 - 101.0 % of mass 174	89.6	(97.9) 1
177	5.0 - 9.0 % of mass 176	6.2	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-531219/3	J71643.D	06/26/2018	21:14
	STD1 460-531219/4	J71644.D	06/26/2018	21:41
	STD5 460-531219/5	J71645.D	06/26/2018	22:08
	STD20 460-531219/6	J71646.D	06/26/2018	22:35
	STD50 460-531219/7	J71647.D	06/26/2018	23:02
	STD200 460-531219/8	J71648.D	06/26/2018	23:29
	STD500 460-531219/9	J71649.D	06/26/2018	23:56

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab File ID: J72287.D BFB Injection Date: 07/10/2018

Instrument ID: CVOAMS8 BFB Injection Time: 05:40

Analysis Batch No.: 534856

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	24.2	
75	30.0 - 60.0 % of mass 95	52.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.9	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	67.5	
175	5.0 - 9.0 % of mass 174	5.0	(7.4) 1
176	95.0 - 101.0 % of mass 174	67.9	(100.6) 1
177	5.0 - 9.0 % of mass 176	5.2	(7.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534856/2	J72288.D	07/10/2018	06:23
	LCS 460-534856/3	J72289.D	07/10/2018	06:50
	LCSD 460-534856/4	J72290.D	07/10/2018	07:17
	MB 460-534856/8	J72294.D	07/10/2018	09:05
PDI-TB-06272018	460-159396-1	J72295.D	07/10/2018	09:32
PDI-FB-06272018	460-159396-2	J72296.D	07/10/2018	09:59
PDI-17-WG-75-06272018	460-159396-3	J72297.D	07/10/2018	10:26

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Sample No.: CCVIS 460-534856/2 Date Analyzed: 07/10/2018 06:23

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): J72288.D Heated Purge: (Y/N) N

Calibration ID: 69657

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		222166	2.85	336249	3.87	366336	4.92
UPPER LIMIT		444332	3.35	672498	4.37	732672	5.42
LOWER LIMIT		111083	2.35	168125	3.37	183168	4.42
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534856/3		210547	2.84	328232	3.87	364149	4.93
LCSD 460-534856/4		211631	2.84	332993	3.87	364900	4.93
MB 460-534856/8		202504	2.84	313962	3.87	346626	4.93
460-159396-1	PDI-TB-06272018	195444	2.85	303100	3.87	341283	4.94
460-159396-2	PDI-FB-06272018	206101	2.84	311855	3.87	338508	4.93
460-159396-3	PDI-17-WG-75-06272018	216022	2.84	320611	3.87	329054	4.93

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Sample No.: CCVIS 460-534856/2 Date Analyzed: 07/10/2018 06:23

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): J72288.D Heated Purge: (Y/N) N

Calibration ID: 69657

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		22637	5.64	260924	8.37	136347	10.74
UPPER LIMIT		45274	6.14	521848	8.87	272694	11.24
LOWER LIMIT		11319	5.14	130462	7.87	68174	10.24
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534856/3		21667	5.64	262978	8.37	137082	10.73
LCSD 460-534856/4		21369	5.64	266243	8.37	138473	10.73
MB 460-534856/8		18160	5.64	241458	8.37	121027	10.74
460-159396-1	PDI-TB-06272018	18042	5.63	237231	8.37	117792	10.74
460-159396-2	PDI-FB-06272018	18457	5.64	233349	8.37	116805	10.74
460-159396-3	PDI-17-WG-75-06272018	18007	5.64	230929	8.37	118058	10.74

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-TB-06272018 | Lab Sample ID: 460-159396-1

Matrix: Water | Lab File ID: J72295.D

Analysis Method: 8260C | Date Collected: 06/27/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND	*	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-TB-06272018 | Lab Sample ID: 460-159396-1

Matrix: Water | Lab File ID: J72295.D

Analysis Method: 8260C | Date Collected: 06/27/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		74-132
460-00-4	4-Bromofluorobenzene	90		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72295.D
Lims ID: 460-159396-B-1
Client ID: PDI-TB-06272018
Sample Type: Client
Inject. Date: 10-Jul-2018 09:32:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159396-B-1
Misc. Info.: 460-0075165-009
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 18:44:41 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: parekhv Date: 10-Jul-2018 18:33:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	2.847	2.846	0.001	0	195444	1000.0	
* 39 2-Butanone-d5	46	3.874	3.874	0.000	0	303100	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.331	4.330	0.001	94	84663	54.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.673	4.673	0.000	0	119878	57.0	
* 62 Fluorobenzene	96	4.936	4.924	0.012	97	341283	50.0	
* 68 1,4-Dioxane-d8	96	5.632	5.643	-0.011	0	18042	1000.0	
$ 79 Toluene-d8 (Surr)	98	6.580	6.580	0.000	97	284284	49.1	
* 90 Chlorobenzene-d5	117	8.372	8.372	0.000	92	237231	50.0	
$ 101 4-Bromofluorobenzene	174	9.800	9.799	0.001	88	75790	44.9	
* 117 1,4-Dichlorobenzene-d4	152	10.736	10.735	0.001	98	117792	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

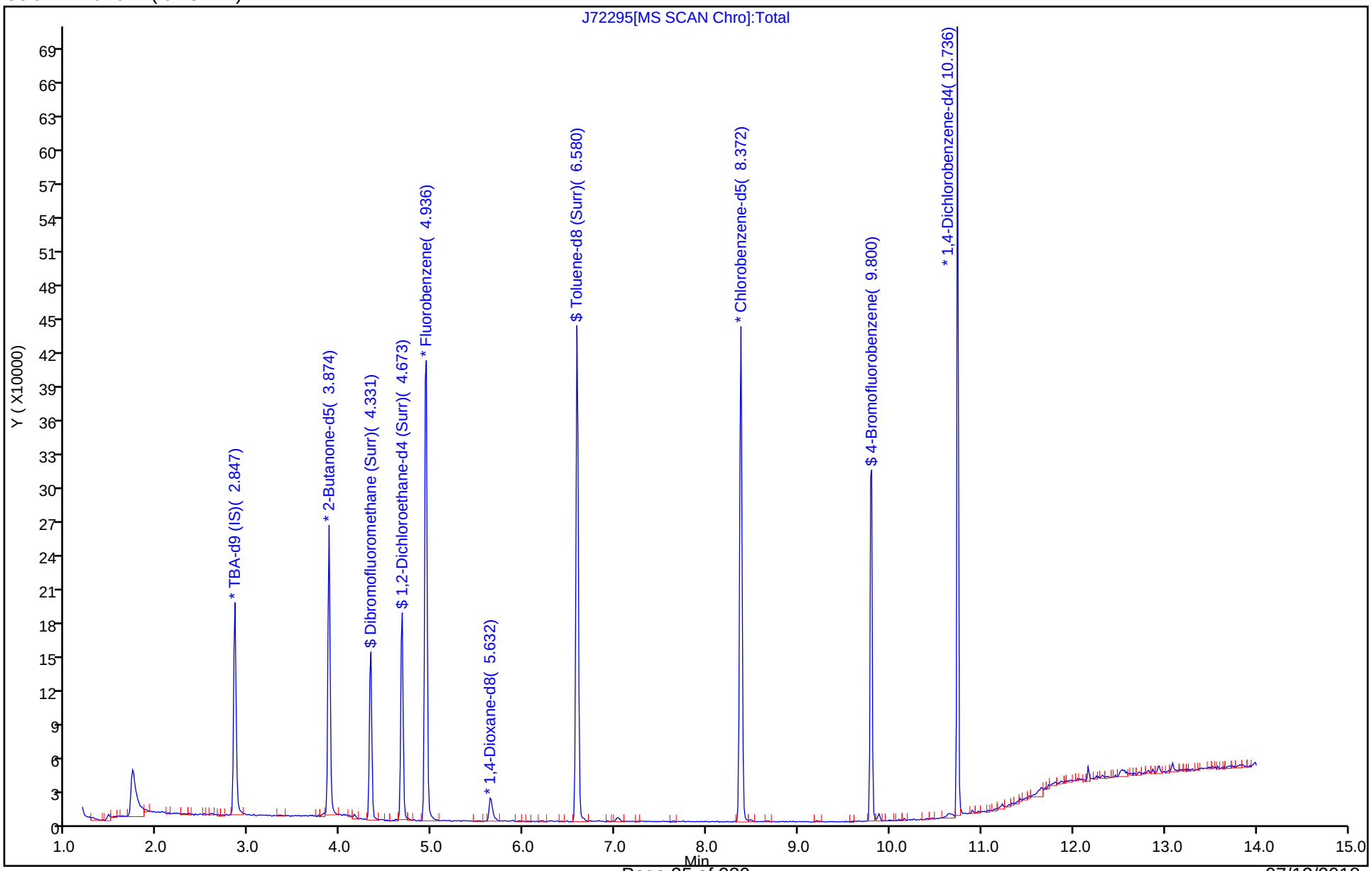
Report Date: 10-Jul-2018 18:45:00 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72295.D

Injection Date:	10-Jul-2018 09:32:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	460-159396-B-1	Lab Sample ID:	460-159396-1	Worklist Smp#:	9
Client ID:	PDI-TB-06272018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



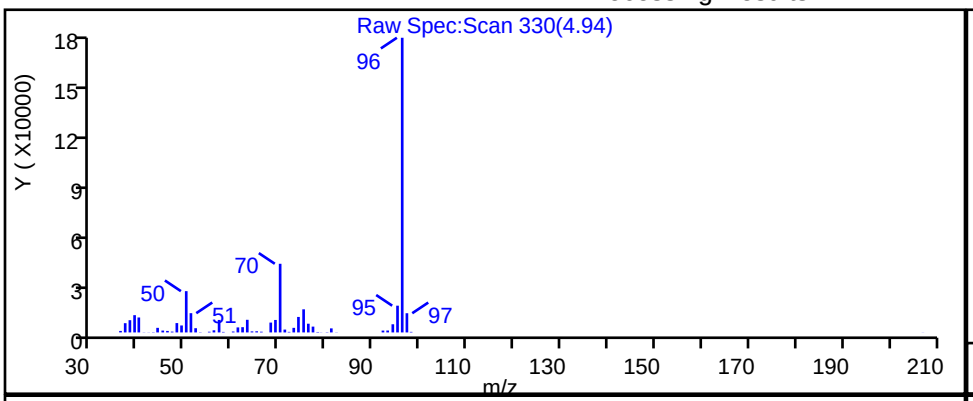
User Disabled Compound Report

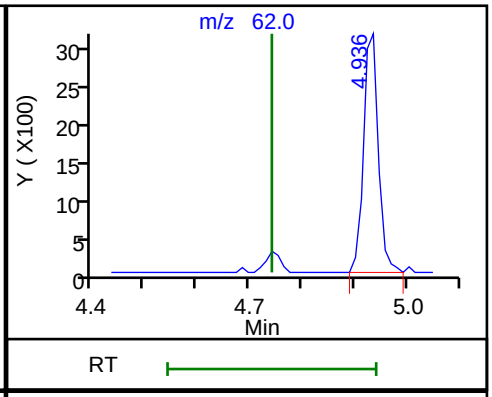
TestAmerica Edison

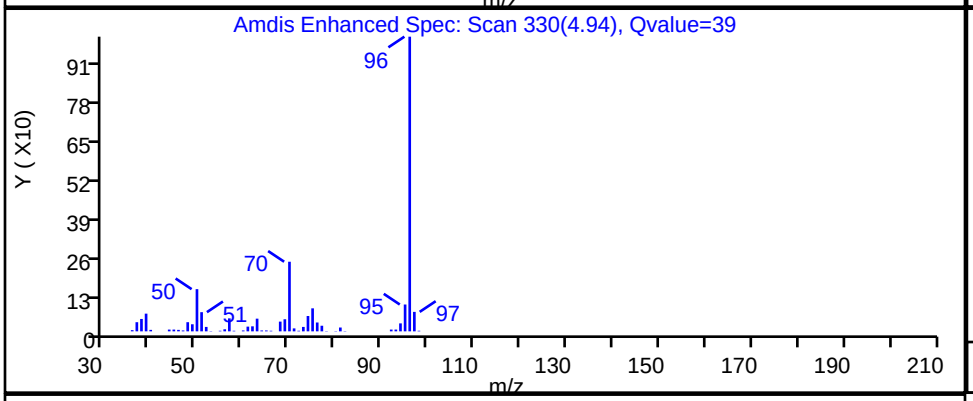
Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72295.D				
Injection Date:	10-Jul-2018 09:32:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-1	Lab Sample ID:	460-159396-1		
Client ID:	PDI-TB-06272018				
Operator ID:		ALS Bottle#:	8	Worklist Smp#:	9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

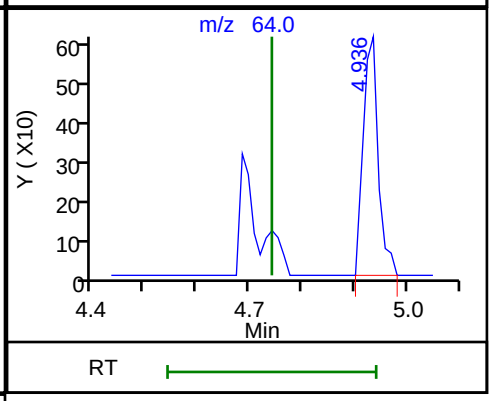
60 1,2-Dichloroethane, CAS: 107-06-2

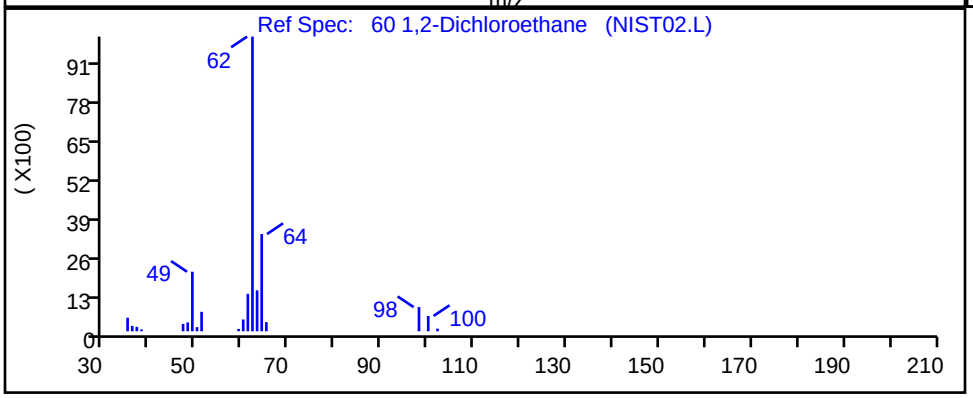
Processing Results











RT	Mass	Response	Amount
4.94	62.00	6136	1.995302
4.94	64.00	1223	

Reviewer: parekhv, 10-Jul-2018 18:33:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

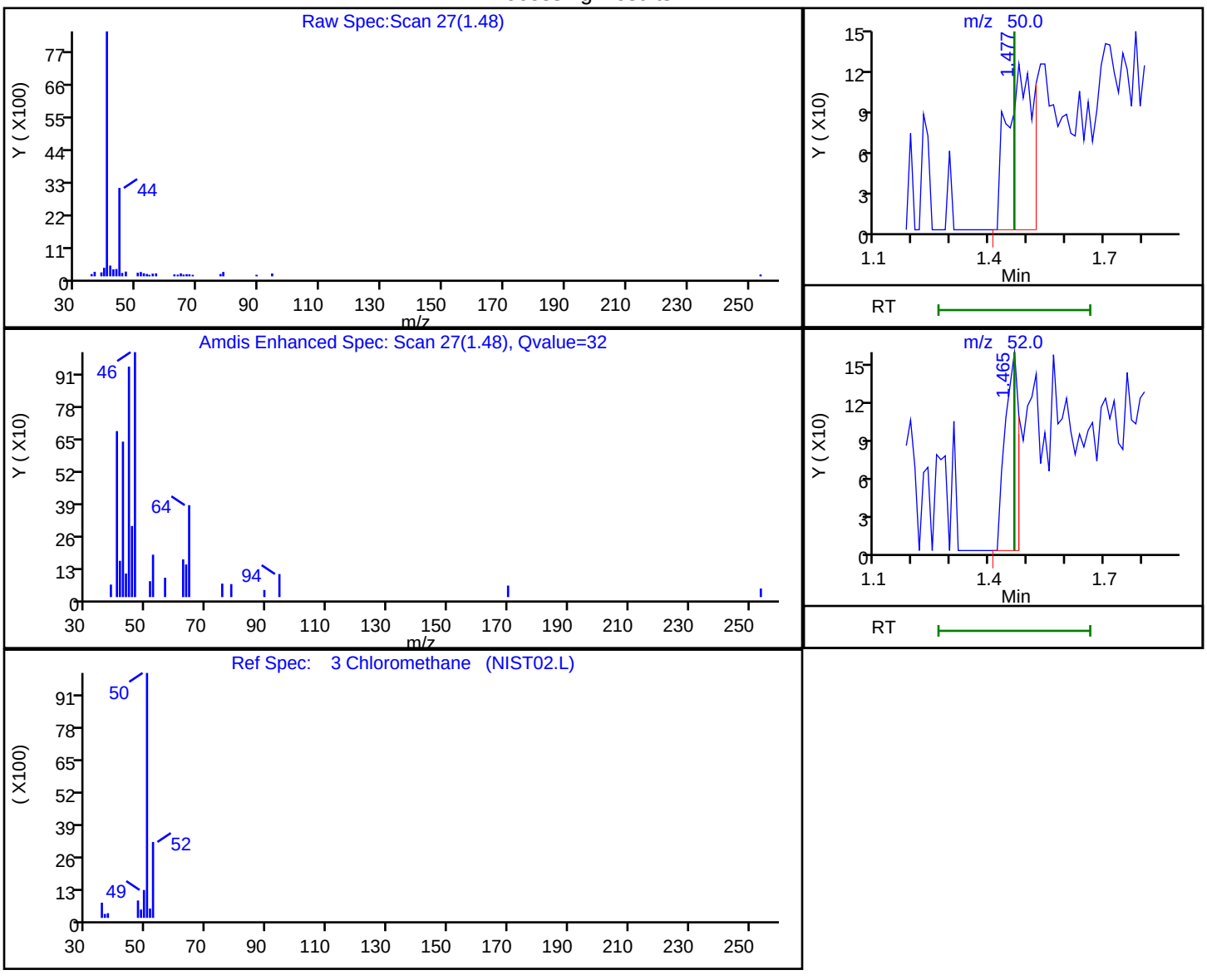
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72295.D		
Injection Date:	10-Jul-2018 09:32:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-1	Lab Sample ID:	460-159396-1
Client ID:	PDI-TB-06272018		
Operator ID:		ALS Bottle#:	8 Worklist Smp#: 9
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.48	50.00	582	0.200924
1.47	52.00	381	

Reviewer: parekhv, 10-Jul-2018 18:33:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-FB-06272018 | Lab Sample ID: 460-159396-2

Matrix: Water | Lab File ID: J72296.D

Analysis Method: 8260C | Date Collected: 06/27/2018 09:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	7.6		5.0	1.9
591-78-6	2-Hexanone	ND	*	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	10		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-FB-06272018 | Lab Sample ID: 460-159396-2

Matrix: Water | Lab File ID: J72296.D

Analysis Method: 8260C | Date Collected: 06/27/2018 09:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	6.5		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		74-132
460-00-4	4-Bromofluorobenzene	89		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D
Lims ID: 460-159396-B-2
Client ID: PDI-FB-06272018
Sample Type: Client
Inject. Date: 10-Jul-2018 09:59:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159396-B-2
Misc. Info.: 460-0075165-010
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 18:44:41 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: parekhv Date: 10-Jul-2018 18:33:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.512	2.515	-0.003	85	9935	10.2	
26 Methylene Chloride	84	2.843	2.846	-0.003	37	12022	6.46	
* 27 TBA-d9 (IS)	65	2.843	2.846	-0.003	0	206101	1000.0	
* 39 2-Butanone-d5	46	3.871	3.874	-0.003	0	311855	250.0	
41 2-Butanone (MEK)	72	3.928	3.931	-0.003	97	2276	7.59	
$ 51 Dibromofluoromethane (Surr	113	4.327	4.330	-0.003	94	84223	54.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.670	4.673	-0.003	0	120265	57.6	
* 62 Fluorobenzene	96	4.932	4.924	0.008	97	338508	50.0	
* 68 1,4-Dioxane-d8	96	5.640	5.643	-0.003	0	18457	1000.0	
$ 79 Toluene-d8 (Surr)	98	6.588	6.580	0.008	98	280677	49.3	
* 90 Chlorobenzene-d5	117	8.369	8.372	-0.003	91	233349	50.0	
94 m-Xylene & p-Xylene	106	8.666	8.669	-0.003	0	1092	0.3339	
$ 101 4-Bromofluorobenzene	174	9.796	9.799	-0.003	85	73893	44.5	
* 117 1,4-Dichlorobenzene-d4	152	10.744	10.735	0.009	97	116805	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

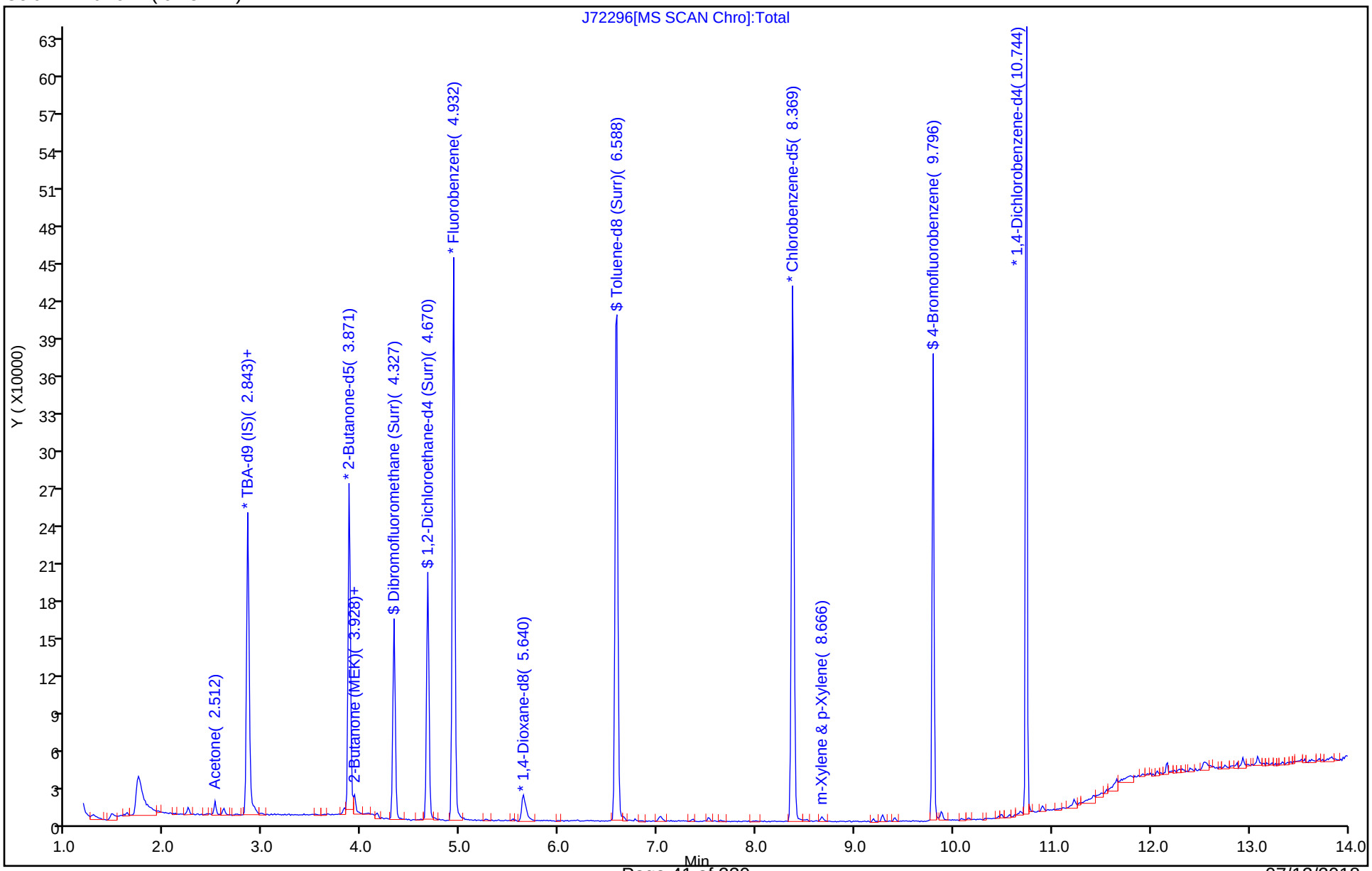
Report Date: 10-Jul-2018 18:45:03 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D

Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2	Worklist Smp#:	10
Client ID:	PDI-FB-06272018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

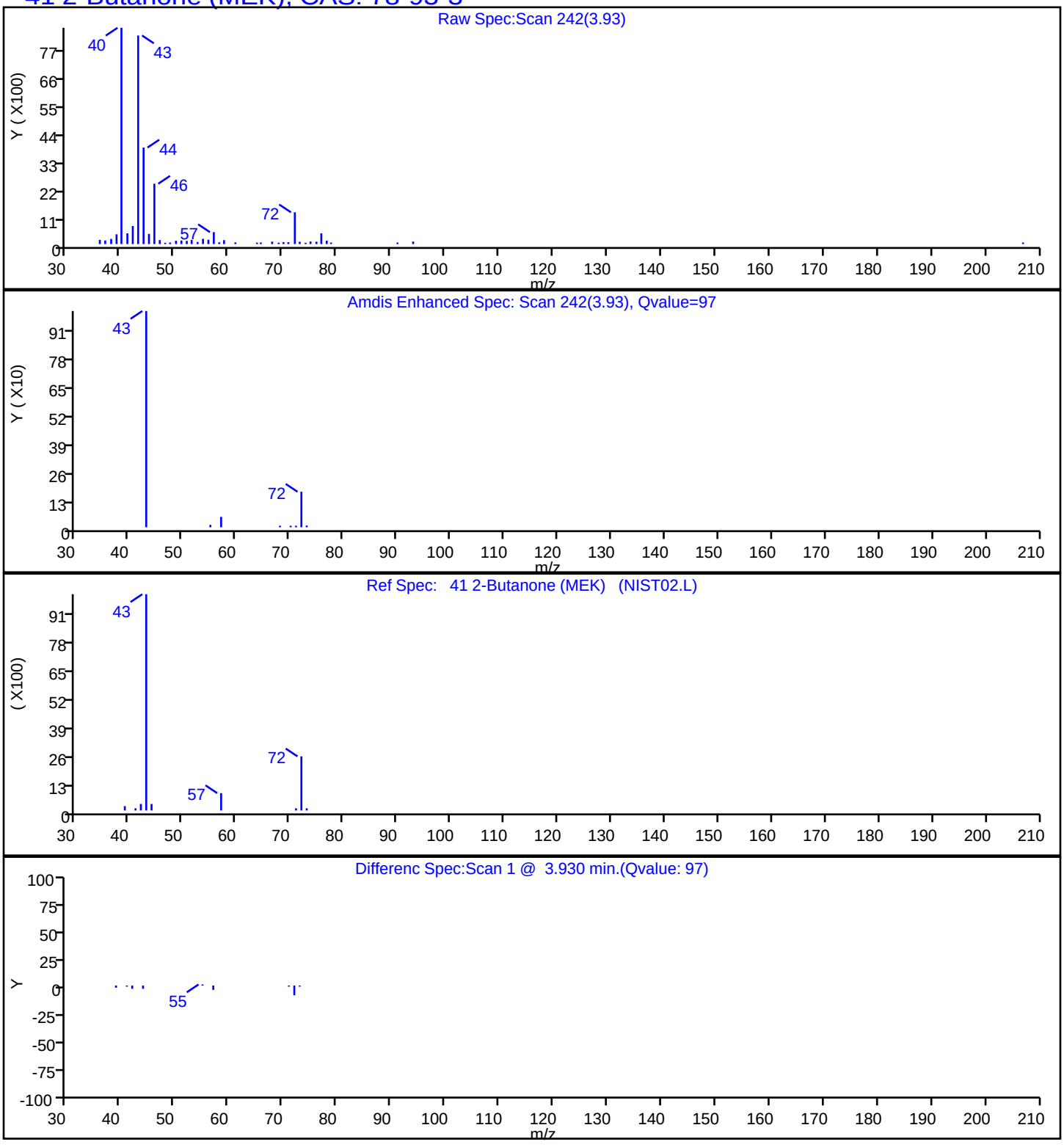
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D		
Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

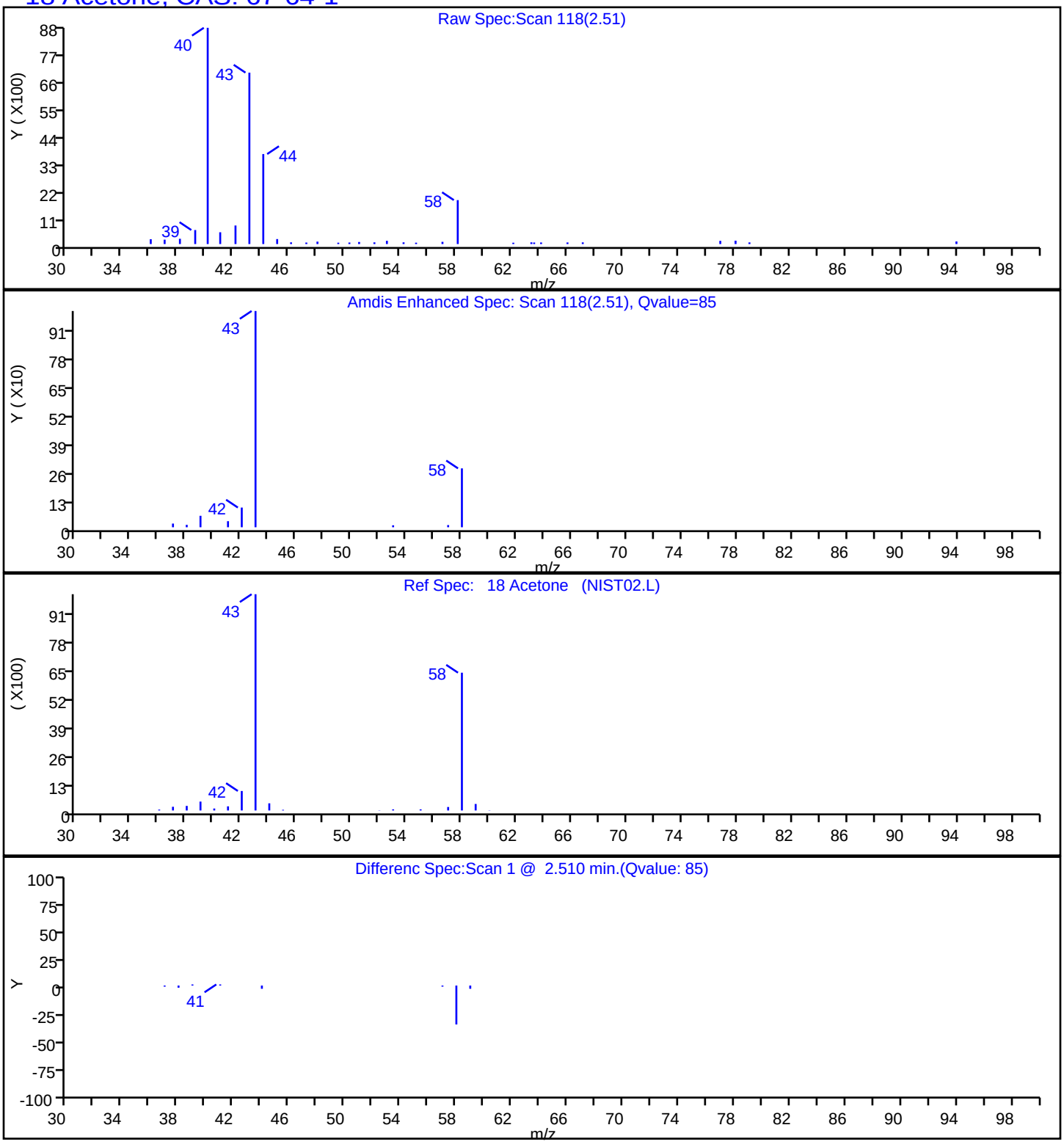
41 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D		
Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

18 Acetone, CAS: 67-64-1

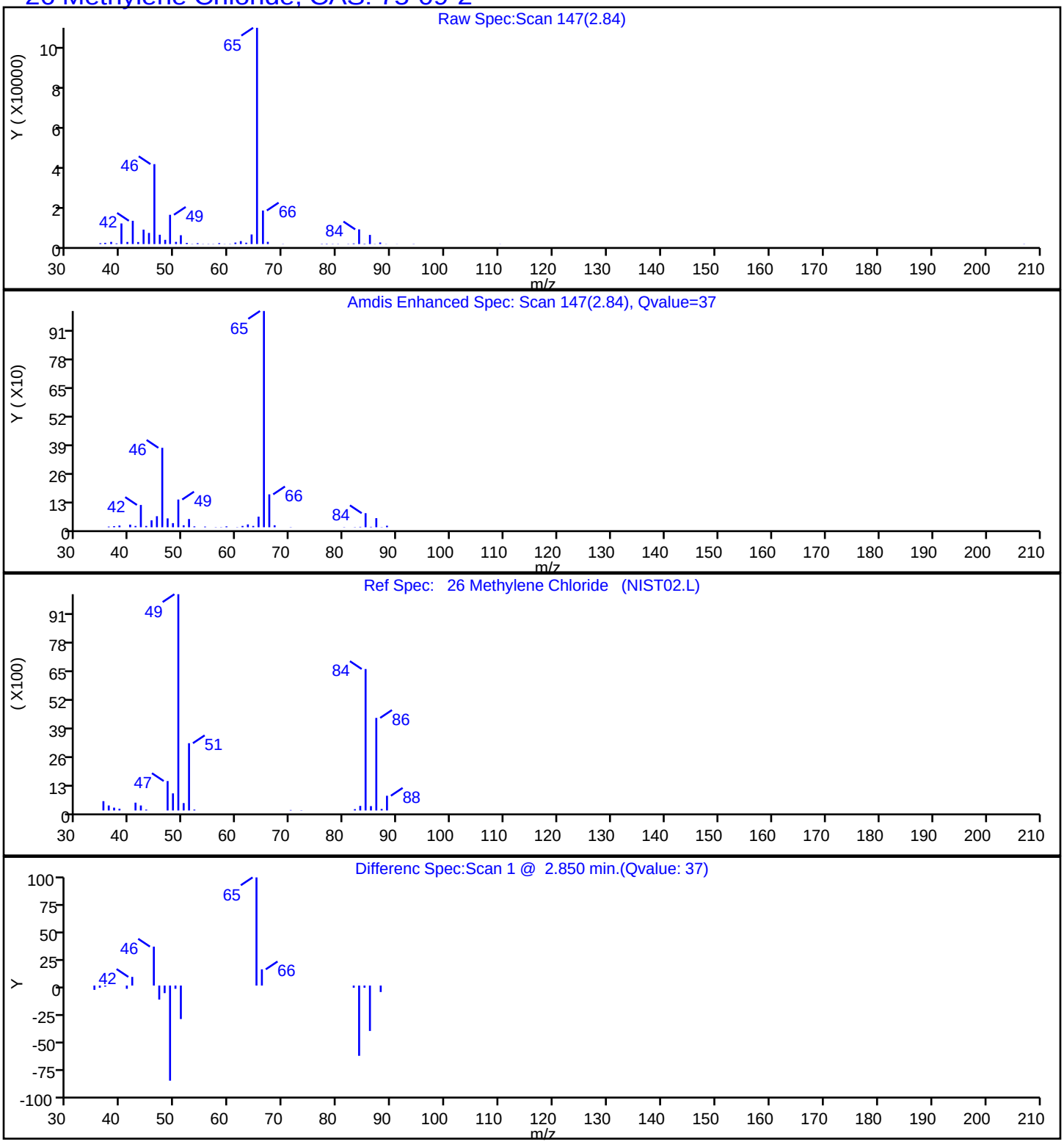


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D

Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

26 Methylene Chloride, CAS: 75-09-2



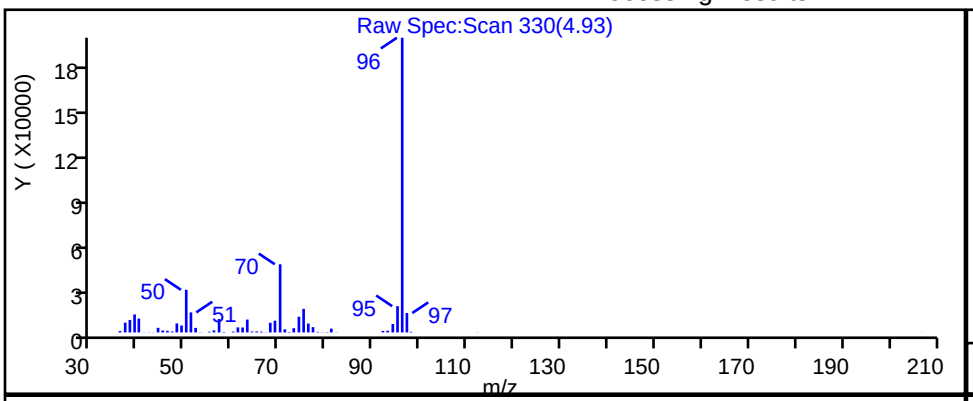
User Disabled Compound Report

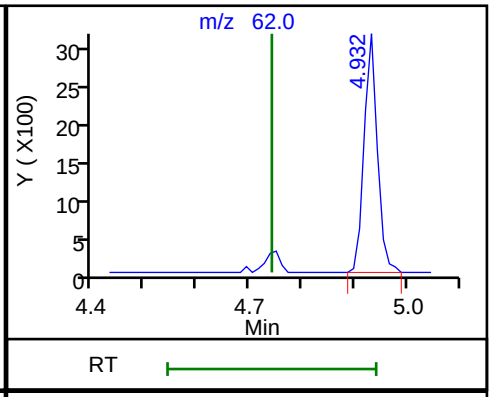
TestAmerica Edison

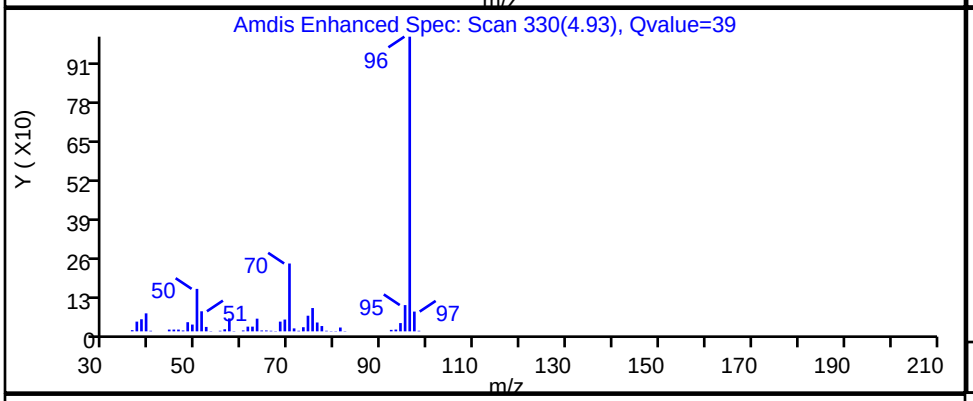
Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D		
Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

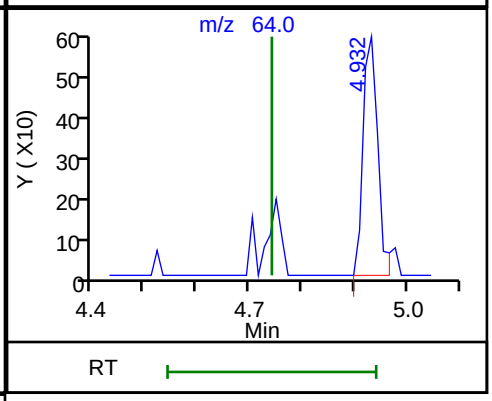
60 1,2-Dichloroethane, CAS: 107-06-2

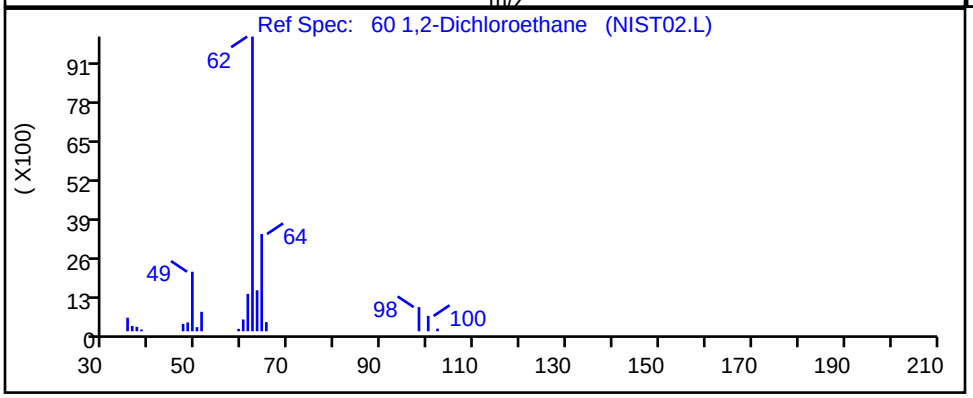
Processing Results











RT	Mass	Response	Amount
4.93	62.00	5638	1.848392
4.93	64.00	1167	

Reviewer: parekhv, 10-Jul-2018 18:33:42

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

User Disabled Compound Report

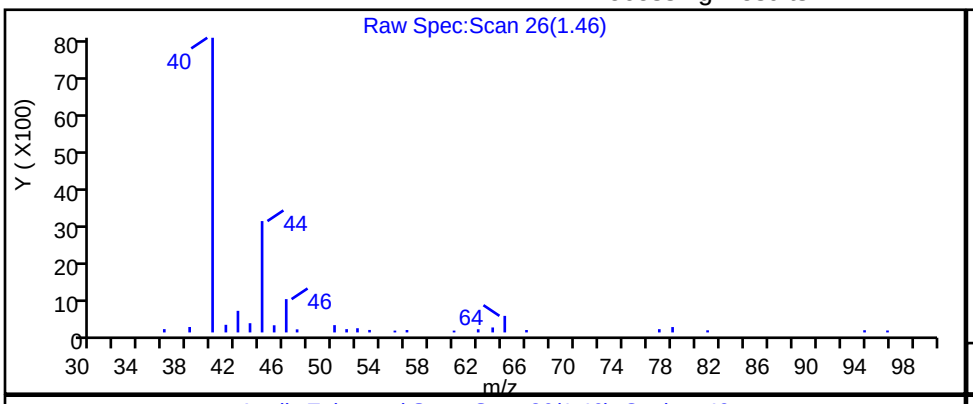
TestAmerica Edison

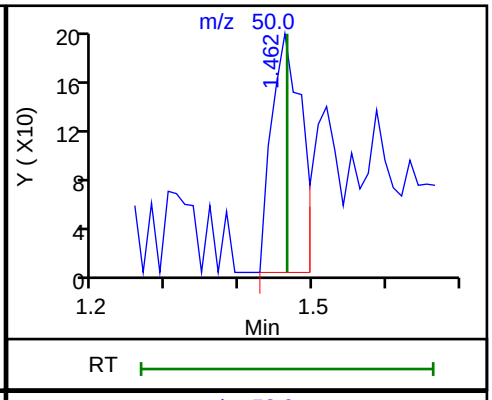
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D

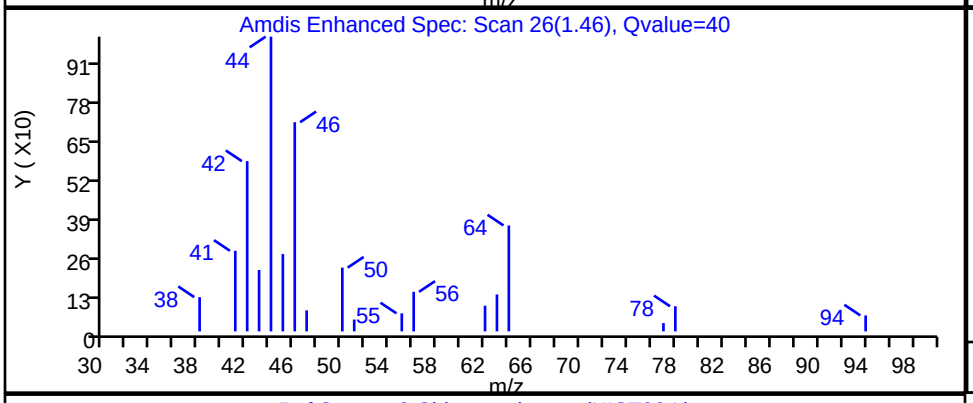
Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

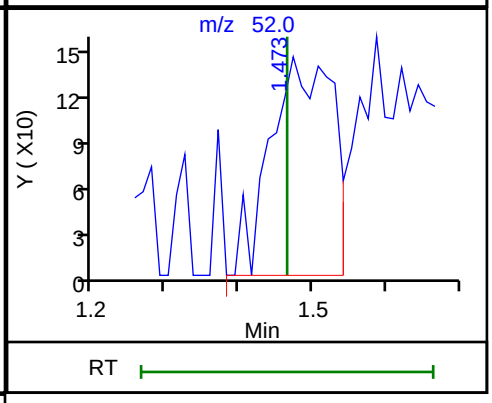
3 Chloromethane, CAS: 74-87-3

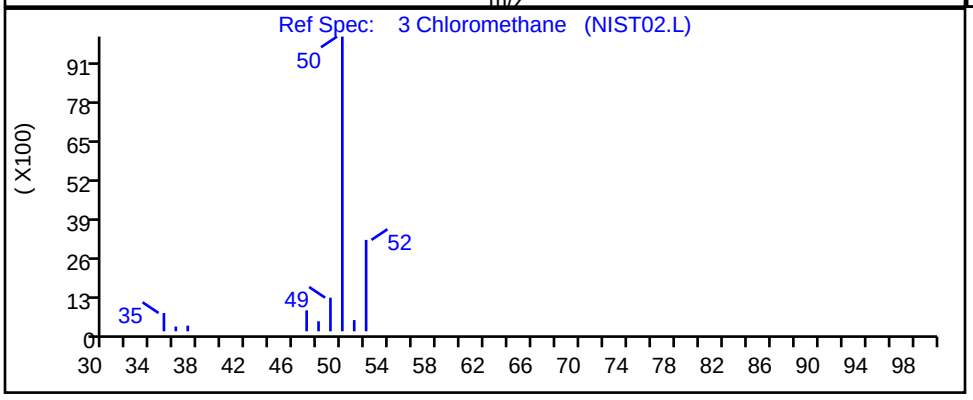
Processing Results











RT	Mass	Response	Amount
1.46	50.00	573	0.199439
1.47	52.00	846	

Reviewer: parekhv, 10-Jul-2018 18:33:34

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

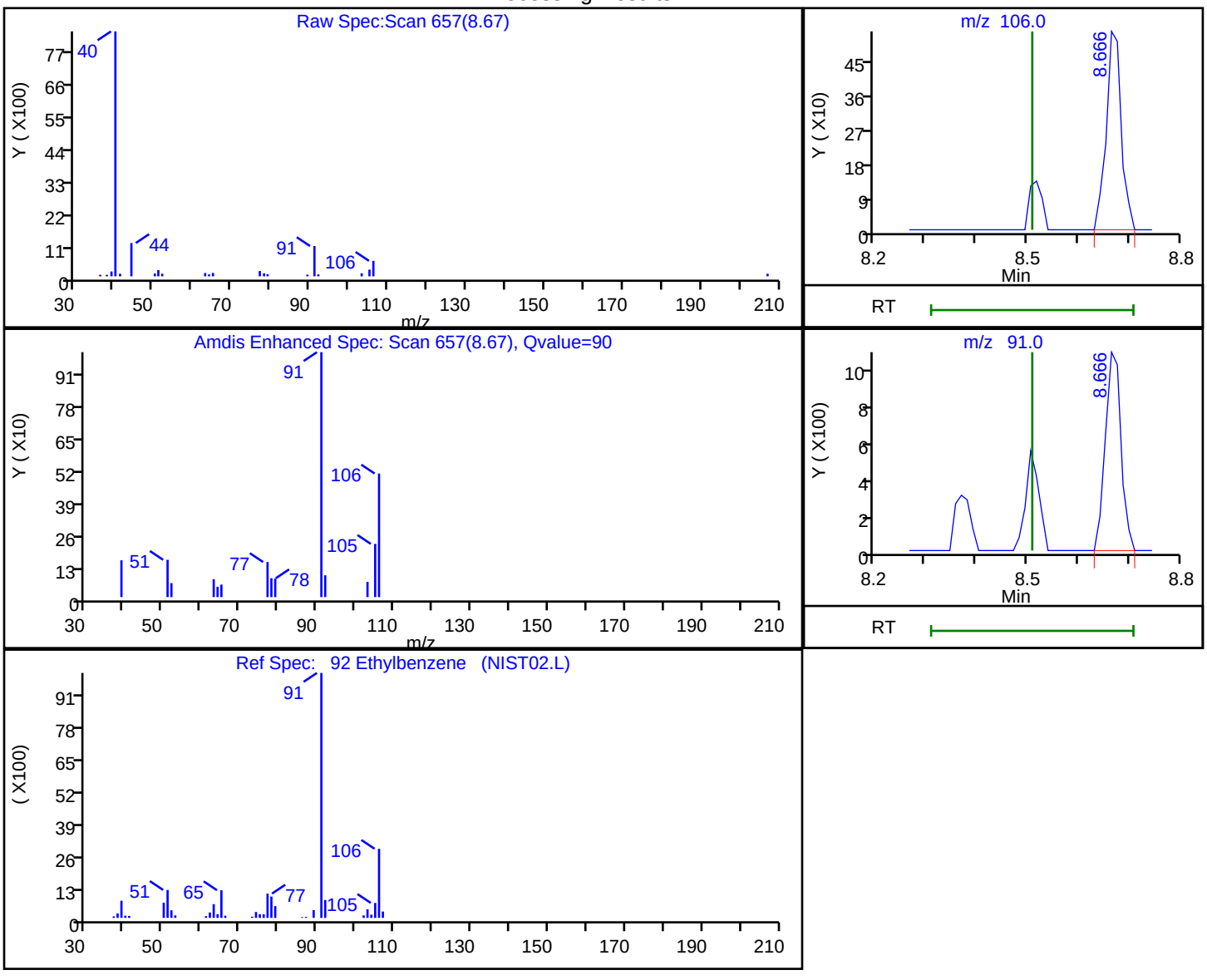
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72296.D		
Injection Date:	10-Jul-2018 09:59:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-2	Lab Sample ID:	460-159396-2
Client ID:	PDI-FB-06272018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
8.67	106.00	1092	0.426018
8.67	91.00	2238	

Reviewer: parekhv, 10-Jul-2018 18:33:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-17-WG-75-06272018 | Lab Sample ID: 460-159396-3

Matrix: Water | Lab File ID: J72297.D

Analysis Method: 8260C | Date Collected: 06/27/2018 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 10:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND	*	5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	6.4		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	0.66	J	1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	0.69	J	1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	0.55	J	1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	0.59	J	1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: PDI-17-WG-75-06272018 | Lab Sample ID: 460-159396-3

Matrix: Water | Lab File ID: J72297.D

Analysis Method: 8260C | Date Collected: 06/27/2018 13:20

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 10:26

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.25	J	1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	3.8		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		74-132
460-00-4	4-Bromofluorobenzene	91		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D
Lims ID: 460-159396-B-3
Client ID: PDI-17-WG-75-06272018
Sample Type: Client
Inject. Date: 10-Jul-2018 10:26:30 ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159396-B-3
Misc. Info.: 460-0075165-011
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 18:44:41 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: parekhv Date: 10-Jul-2018 18:34:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.513	2.515	-0.002	84	6456	6.43	
* 27 TBA-d9 (IS)	65	2.844	2.846	-0.002	0	216022	1000.0	
* 39 2-Butanone-d5	46	3.871	3.874	-0.003	0	320611	250.0	
48 Chloroform	83	4.168	4.171	-0.003	94	1859	0.5535	
$ 51 Dibromofluoromethane (Surr	113	4.328	4.330	-0.002	94	82355	54.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.671	4.673	-0.002	0	116788	57.6	
* 62 Fluorobenzene	96	4.933	4.924	0.009	97	329054	50.0	
64 Trichloroethene	95	5.276	5.278	-0.002	93	7449	3.78	
* 68 1,4-Dioxane-d8	96	5.641	5.643	-0.002	0	18007	1000.0	
73 Dichlorobromomethane	83	5.847	5.849	-0.002	94	1641	0.5883	
$ 79 Toluene-d8 (Surr)	98	6.589	6.580	0.009	97	275434	48.9	
84 Tetrachloroethene	166	7.262	7.265	-0.003	65	395	0.2503	
88 Chlorodibromomethane	129	7.673	7.676	-0.003	67	1269	0.6921	
* 90 Chlorobenzene-d5	117	8.370	8.372	-0.002	92	230929	50.0	
99 Bromoform	173	9.466	9.468	-0.002	48	774	0.6623	
$ 101 4-Bromofluorobenzene	174	9.797	9.799	-0.002	84	74443	45.3	
* 117 1,4-Dichlorobenzene-d4	152	10.744	10.735	0.009	98	118058	50.0	

Reagents:

8260ISNEW_00119	Amount Added: 1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added: 1.00	Units: uL	Run Reagent

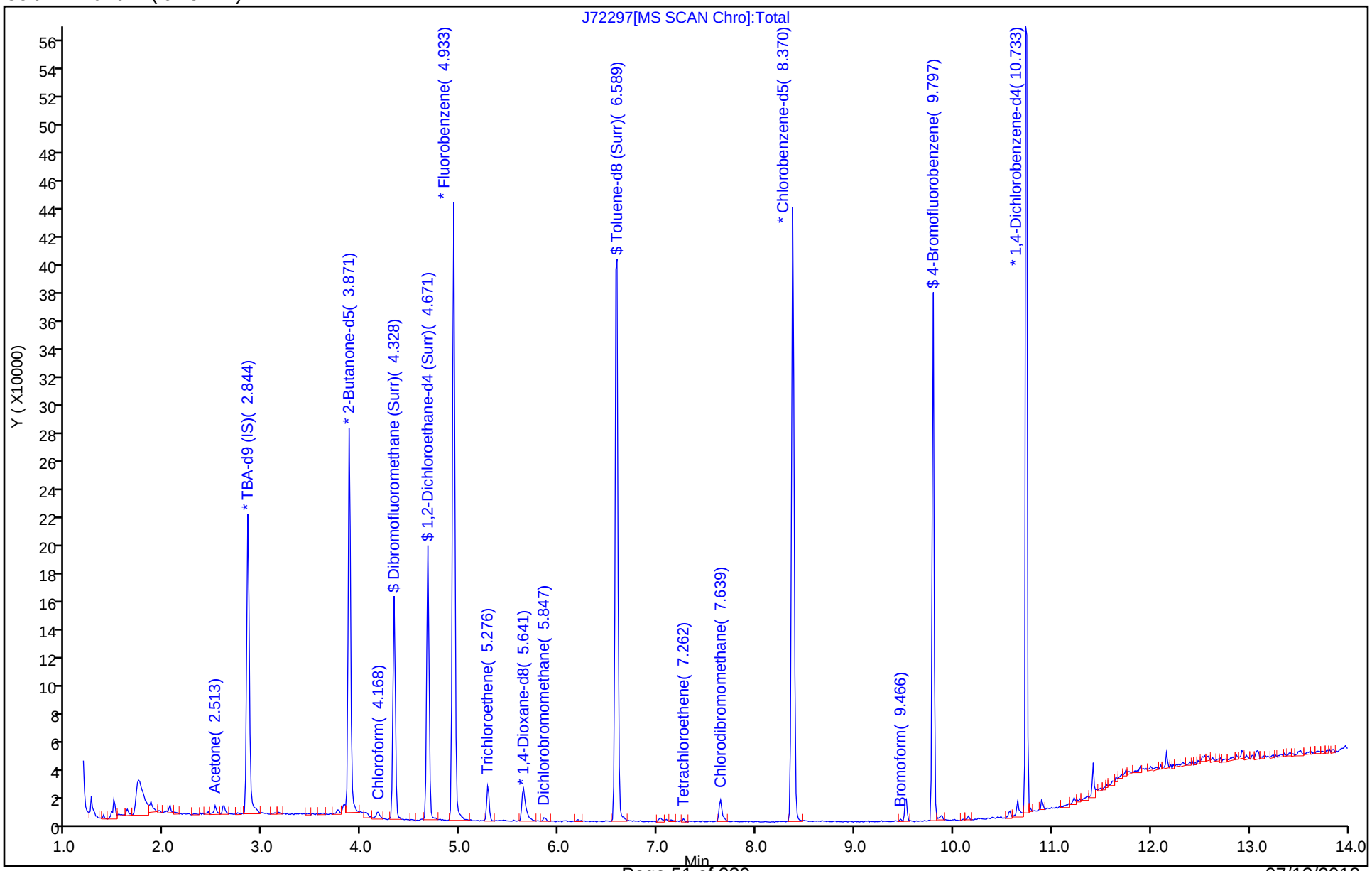
Report Date: 10-Jul-2018 18:45:07 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D

Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3	Worklist Smp#:	11
Client ID:	PDI-17-WG-75-06272018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	10
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

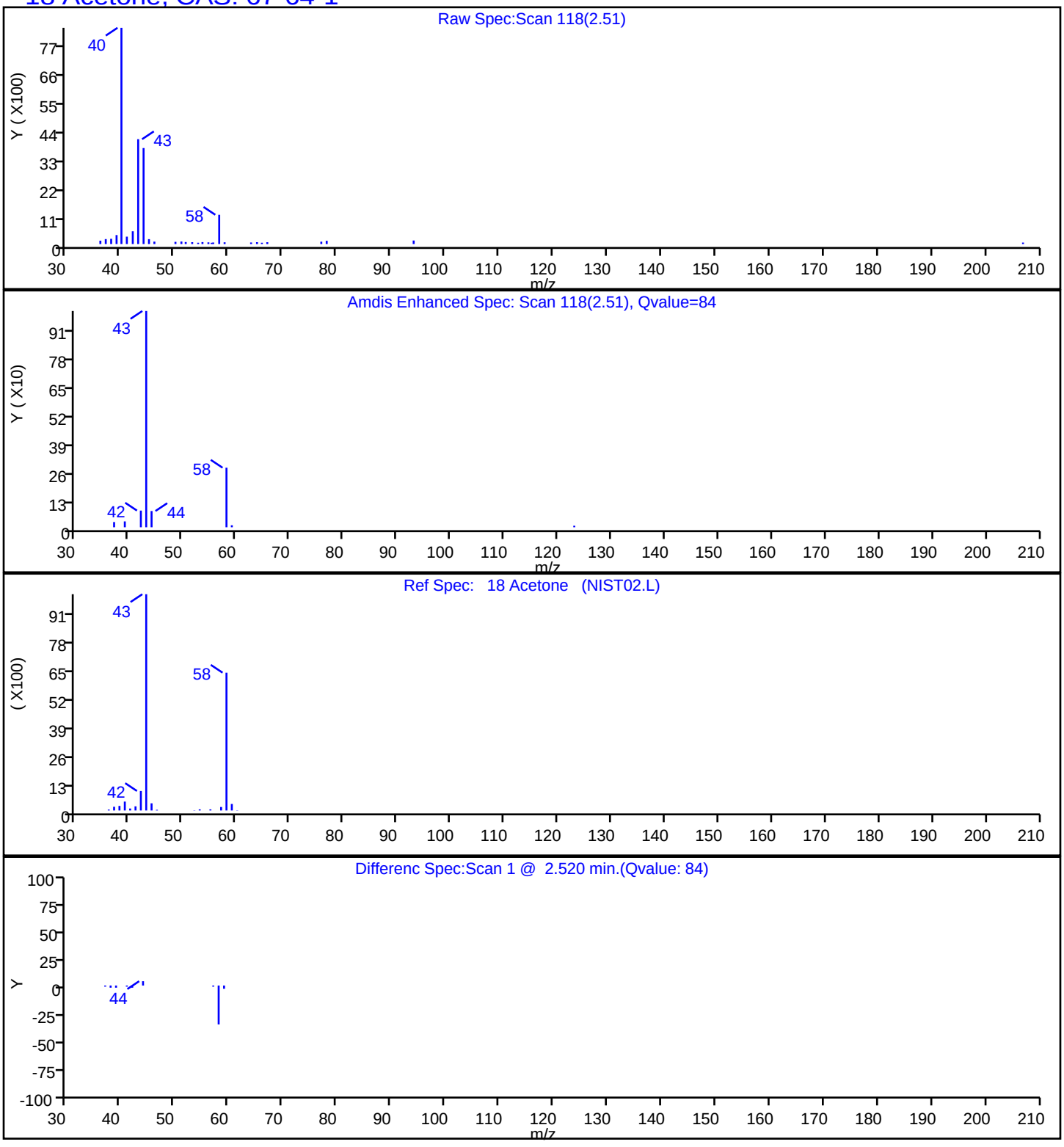
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D		
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3
Client ID:	PDI-17-WG-75-06272018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

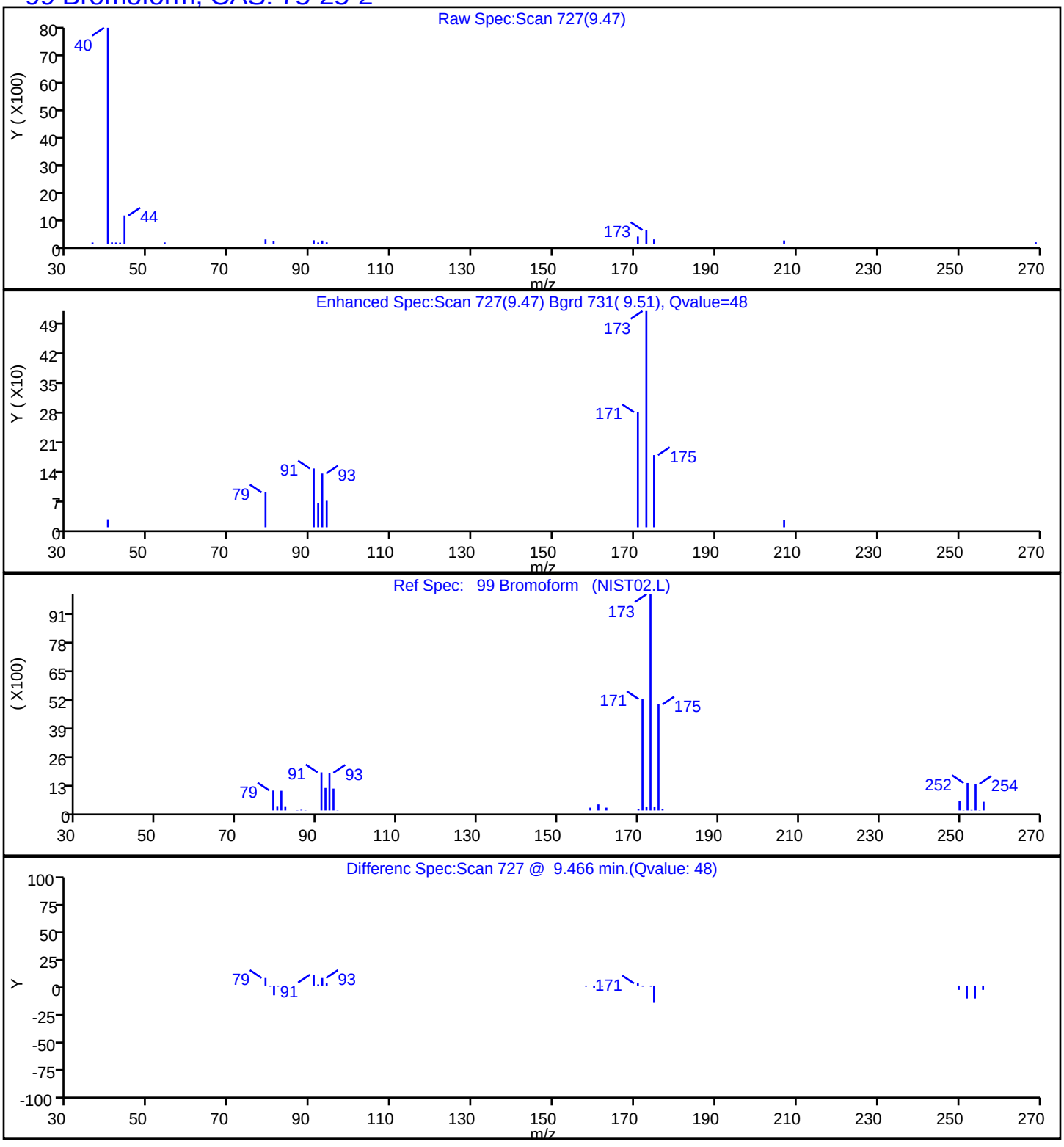
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D		
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3
Client ID:	PDI-17-WG-75-06272018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

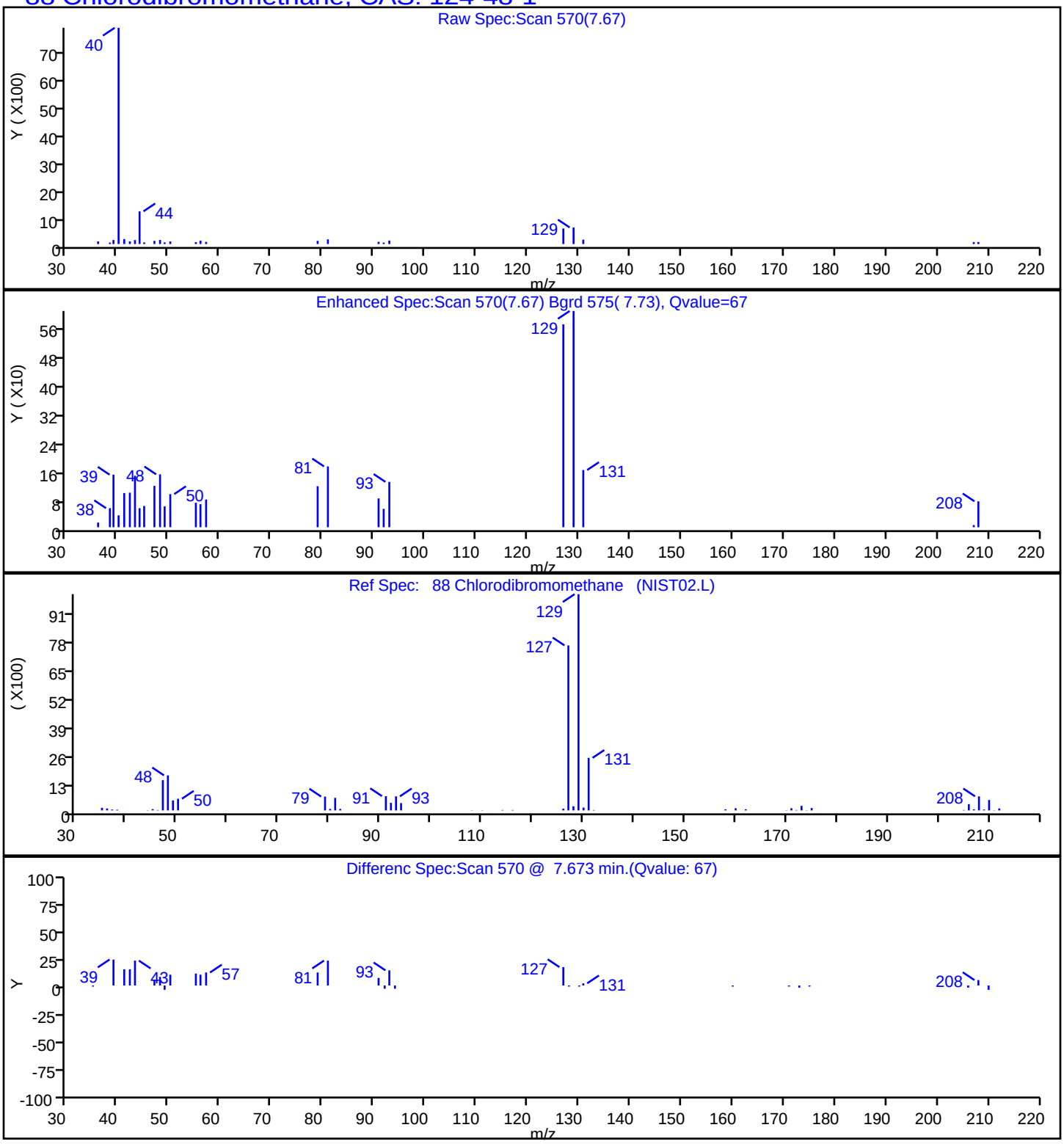
99 Bromoform, CAS: 75-25-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D		
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3
Client ID:	PDI-17-WG-75-06272018		
Operator ID:		ALS Bottle#:	10 Worklist Smp#: 11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

88 Chlorodibromomethane, CAS: 124-48-1

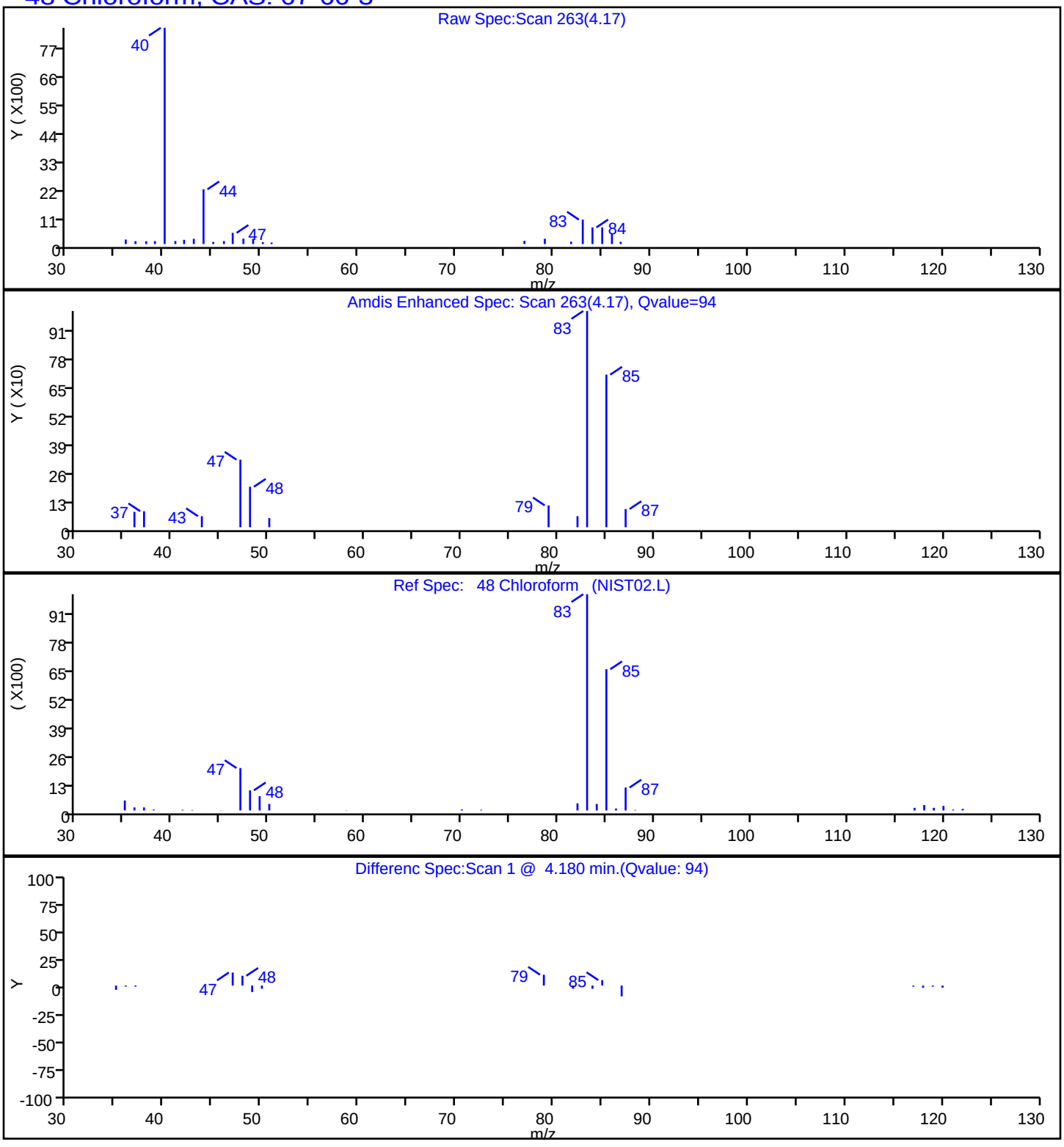


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D

Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3		
Client ID:	PDI-17-WG-75-06272018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

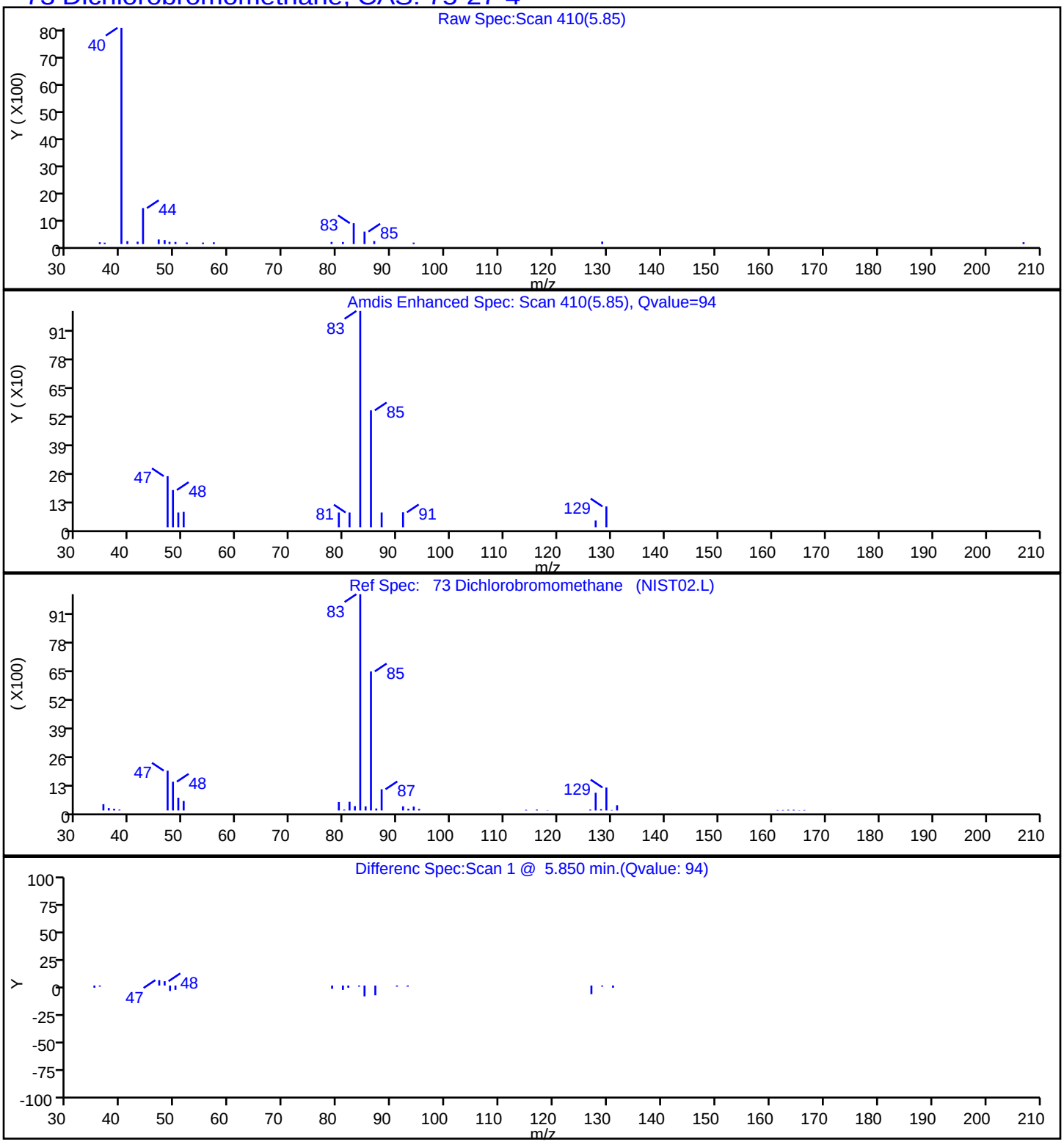
48 Chloroform, CAS: 67-66-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D				
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3		
Client ID:	PDI-17-WG-75-06272018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

73 Dichlorobromomethane, CAS: 75-27-4



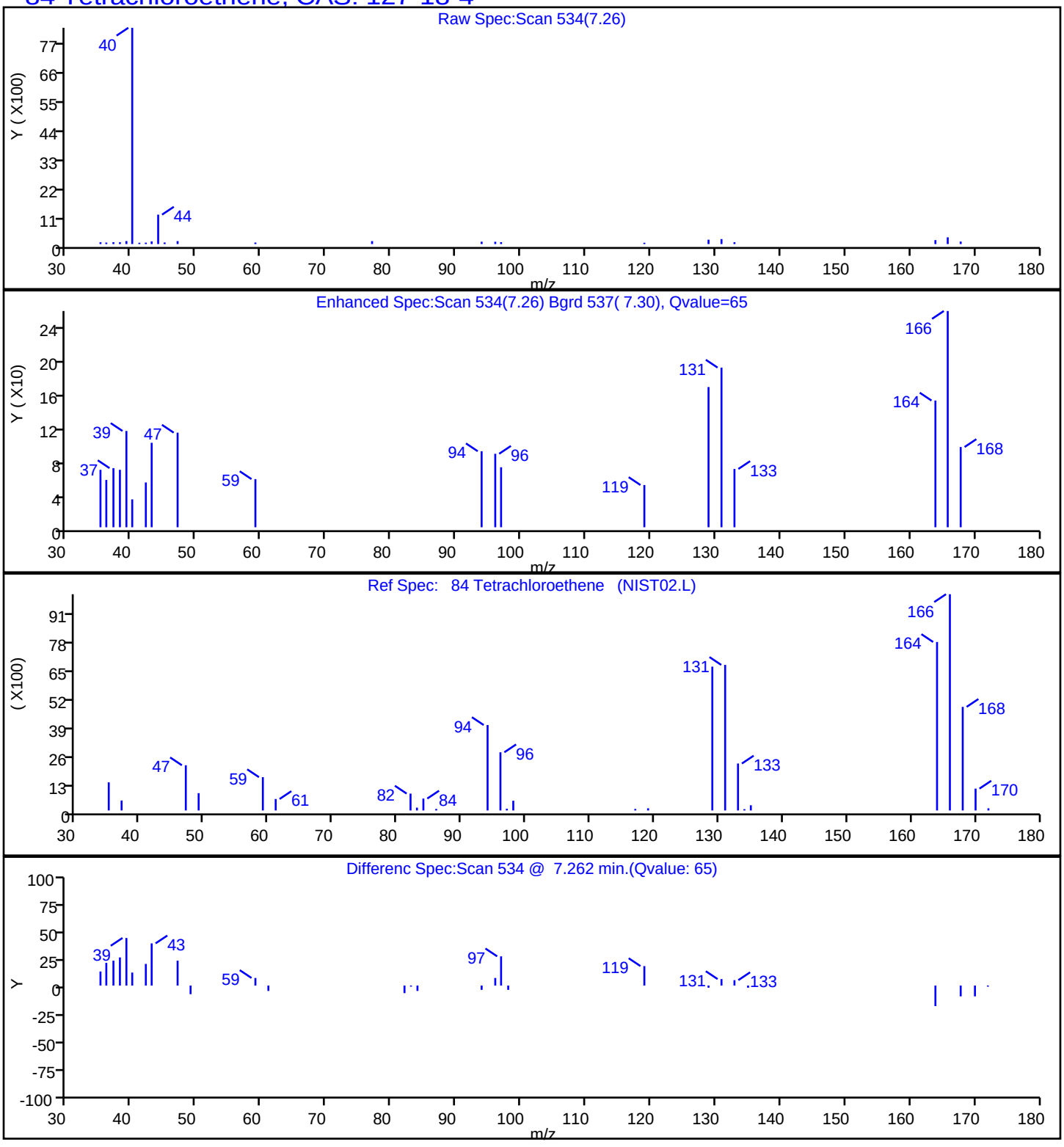
Report Date: 10-Jul-2018 18:45:07 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D

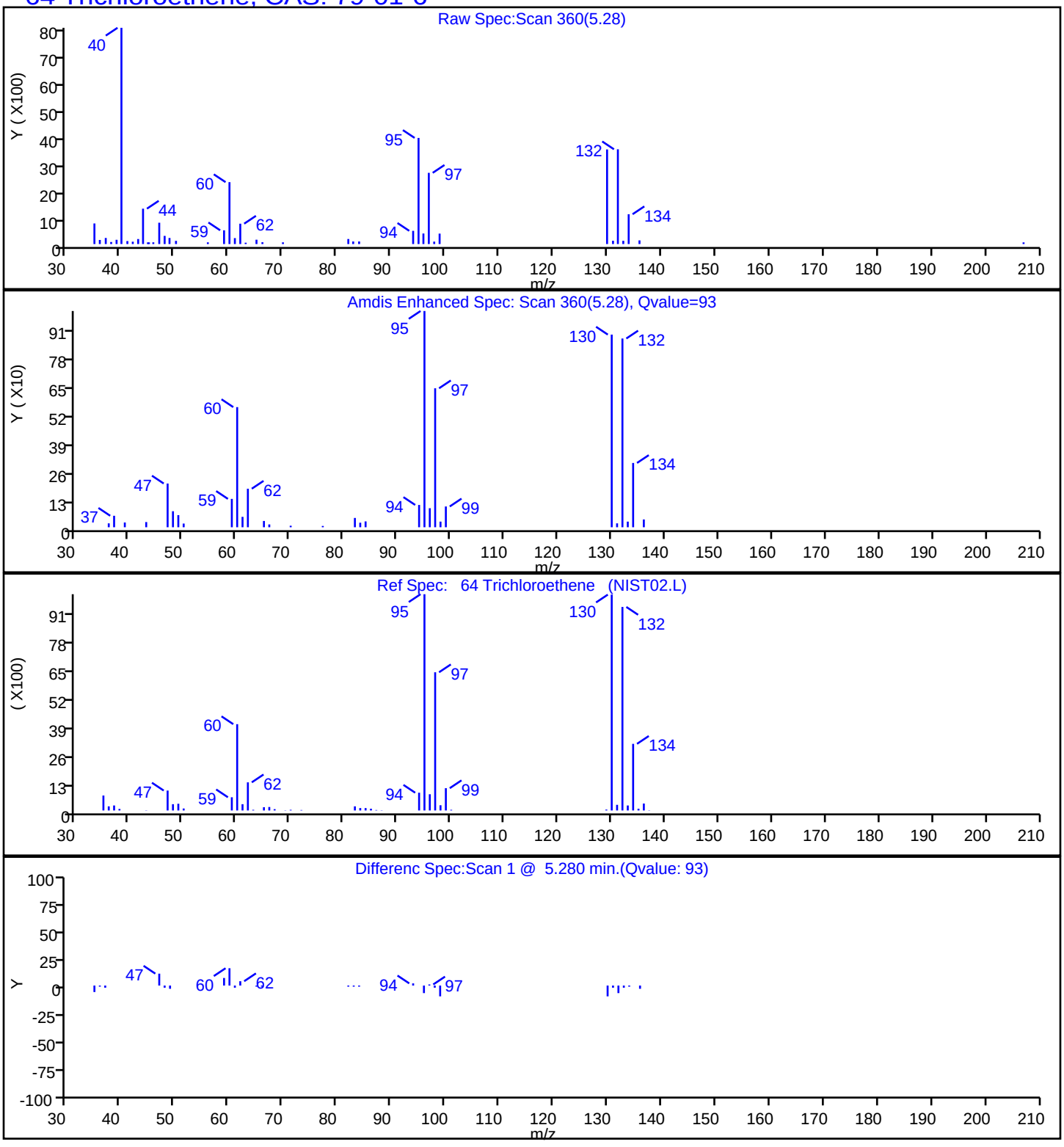
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3		
Client ID:	PDI-17-WG-75-06272018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

84 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D
Injection Date: 10-Jul-2018 10:26:30 Instrument ID: CVOAMS8
Lims ID: 460-159396-B-3 Lab Sample ID: 460-159396-3
Client ID: PDI-17-WG-75-06272018
Operator ID: ALS Bottle#: 10 Worklist Smp#: 11
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Trichloroethene, CAS: 79-01-6



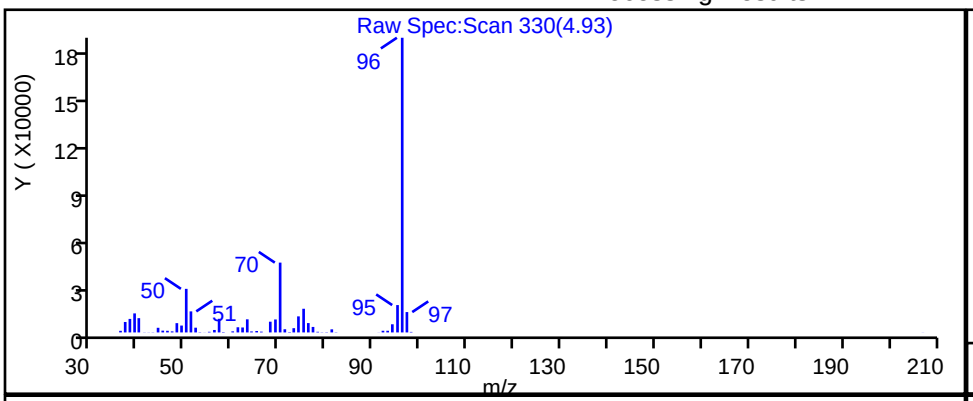
User Disabled Compound Report

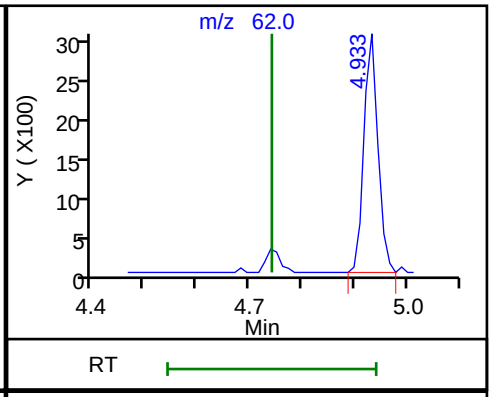
TestAmerica Edison

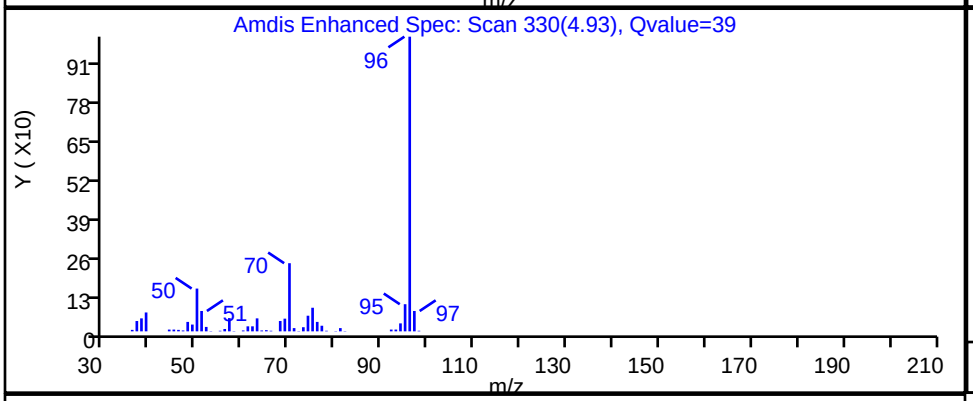
Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D				
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3		
Client ID:	PDI-17-WG-75-06272018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

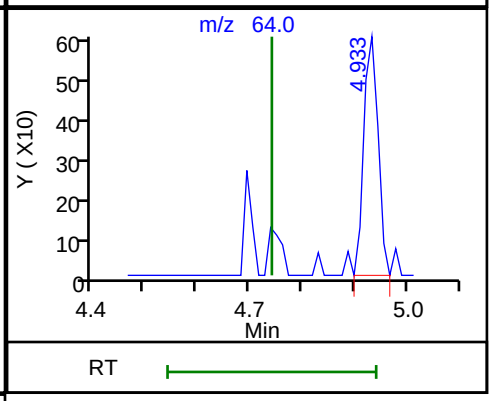
60 1,2-Dichloroethane, CAS: 107-06-2

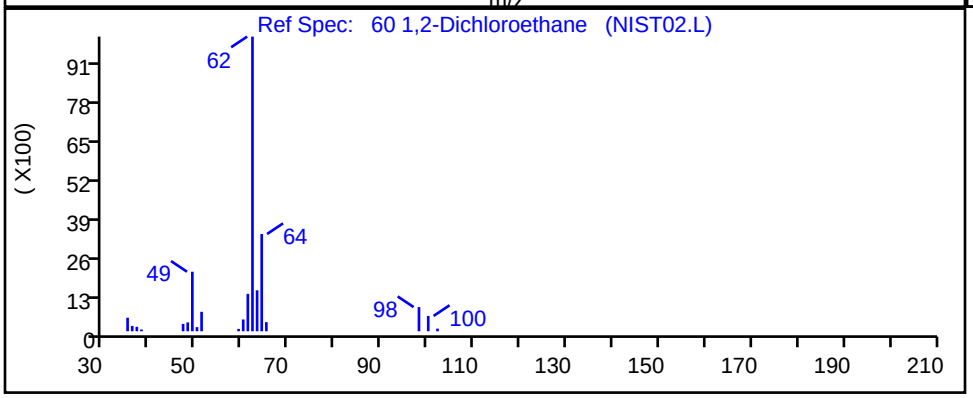
Processing Results











RT	Mass	Response	Amount
4.93	62.00	5677	1.914651
4.93	64.00	1162	

Reviewer: parekhv, 10-Jul-2018 18:34:11

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

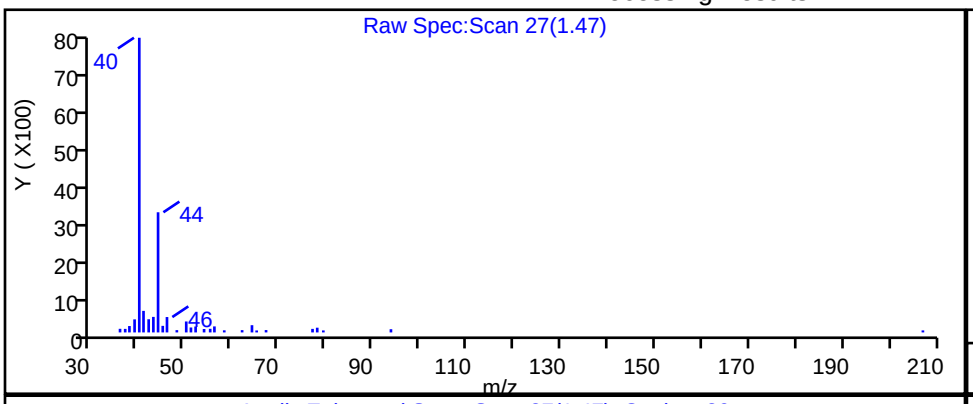
User Disabled Compound Report

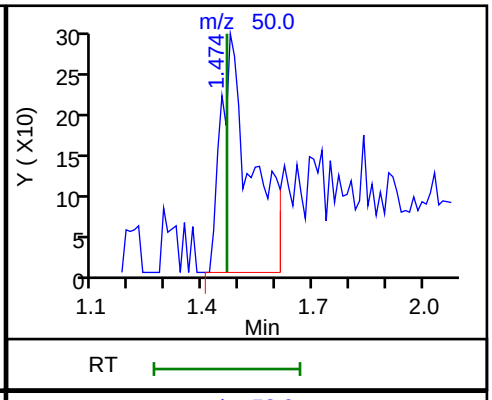
TestAmerica Edison

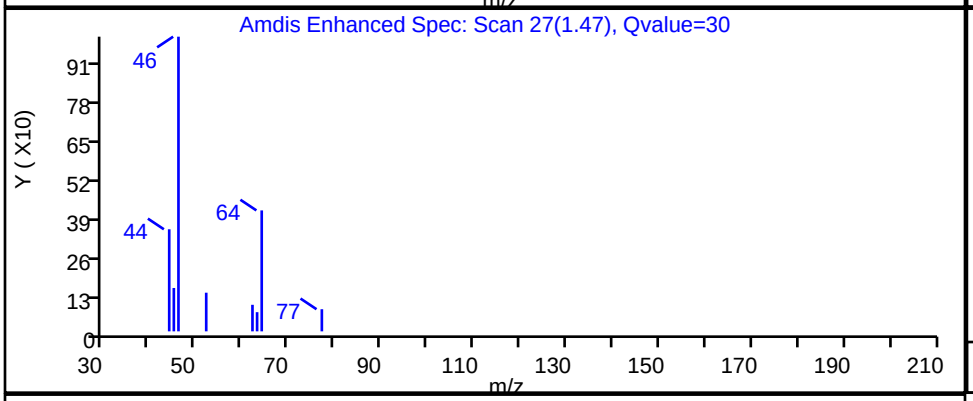
Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72297.D				
Injection Date:	10-Jul-2018 10:26:30	Instrument ID:	CVOAMS8		
Lims ID:	460-159396-B-3	Lab Sample ID:	460-159396-3		
Client ID:	PDI-17-WG-75-06272018				
Operator ID:		ALS Bottle#:	10	Worklist Smp#:	11
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

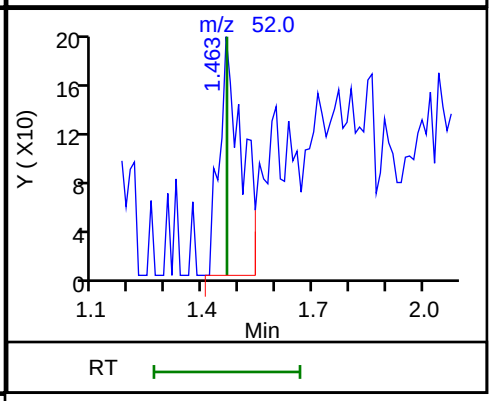
3 Chloromethane, CAS: 74-87-3

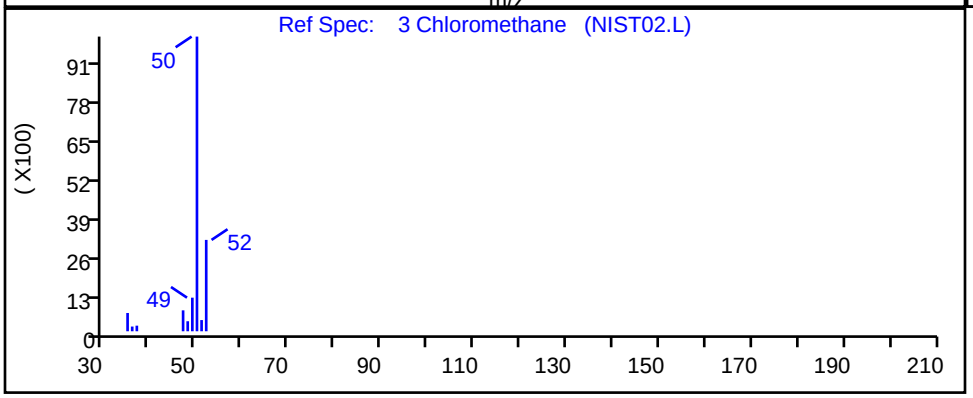
Processing Results











RT	Mass	Response	Amount
1.47	50.00	1737	0.621951
1.46	52.00	845	

Reviewer: parekhv, 10-Jul-2018 18:34:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-531219/3	J71643.D
Level 2	STD1 460-531219/4	J71644.D
Level 3	STD5 460-531219/5	J71645.D
Level 4	STD20 460-531219/6	J71646.D
Level 5	STD50 460-531219/7	J71647.D
Level 6	STD200 460-531219/8	J71648.D
Level 7	STD500 460-531219/9	J71649.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.0386	0.0302 0.0380	0.0291	0.0285	0.0305	Ave		0.0325				14.0		20.0			
Dichlorodifluoromethane	+++++ 0.3605	0.3585 0.3365	0.3053	0.2979	0.2796	Ave		0.3231			0.1000	10.4		20.0			
Chloromethane	+++++ 0.4499	0.4883 0.4286	0.3989	0.3991	0.3815	Ave		0.4244			0.1000	9.4		20.0			
Vinyl chloride	+++++ 0.3826	0.3713 0.3517	0.3513	0.3460	0.3293	Ave		0.3554			0.1000	5.3		20.0			
Butadiene	0.4046 0.3386	0.2784 0.3080	0.3068	0.3057	0.2869	Ave		0.3184				13.3		20.0			
Bromomethane	+++++ 0.1413	0.1145 0.0932	0.0797	0.1282	0.1086	QuaF		0.1645	-0.000142		0.1000				0.9960		0.9900
Chloroethane	+++++ 0.1863	0.1687 0.1546	0.1573	0.1801	0.1707	Ave		0.1696			0.1000	7.3		20.0			
Dichlorofluoromethane	+++++ 0.4999	0.4638 0.4620	0.5128	0.5255	0.4969	Ave		0.4935				5.2		20.0			
Trichlorofluoromethane	+++++ 0.3975	0.3469 0.3578	0.3939	0.3917	0.3587	Ave		0.3744			0.1000	6.0		20.0			
Pentane	+++++ 1.6472	2.0261 1.3760	1.6778	1.6281	1.5078	Ave		1.6438				13.3		20.0			
Ethanol	+++++ 0.0972	0.1008 0.0869	0.0793	0.0976	0.0900	Ave		0.0920				8.8		20.0			
Ethyl ether	+++++ 0.2329	0.2427 0.2122	0.2282	0.2356	0.2278	Ave		0.2299				4.5		20.0			
2-Methyl-1,3-butadiene	+++++ 0.2389	0.1983 0.2213	0.2255	0.2402	0.2330	Ave		0.2262				6.9		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.1690	0.2192 0.1624	0.1941	0.1873	0.1733	Ave		0.1842				11.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2162	0.2024 0.2083	0.2197	0.2137	0.2056	Ave		0.2110			0.1000	3.1		20.0			
Acrolein	+++++ 2.7494	2.7987 2.5174	2.4362	2.6800	2.5540	Ave		2.6226				5.4		20.0			
1,1-Dichloroethene	+++++ 0.2137	0.1946 0.2014	0.2105	0.2140	0.2045	Ave		0.2064			0.1000	3.7		20.0			
Acetone	+++++ 0.7199	1.0730 0.6554	0.7854	0.7534	0.7090	Ave		0.7827			0.0500	19.0		20.0			
Iodomethane	+++++ 0.2598	0.1500 0.2343	0.1122	0.1593	0.1956	QuaF		0.2634	-0.000057						0.9980		0.9900
Carbon disulfide	+++++ 0.8704	0.8991 0.7948	0.8701	0.8891	0.8621	Ave		0.8643			0.1000	4.2		20.0			
Isopropyl alcohol	+++++ 1.0045	1.0605 0.9129	1.0242	1.1066	1.0372	Ave		1.0243				6.3		20.0			
Allyl chloride	+++++ 0.1450	0.1698 0.1355	0.1541	0.1537	0.1489	Ave		0.1512				7.5		20.0			
Cyclopentene	+++++ 0.6232	0.6351 0.5847	0.6823	0.6725	0.6499	Ave		0.6413				5.5		20.0			
Methyl acetate	+++++ 0.2533	0.2634 0.2374	0.2505	0.2528	0.2498	Ave		0.2512			0.1000	3.3		20.0			
Acetonitrile	+++++ 2.3851	2.7914 2.0749	2.5014	2.6720	2.4299	Ave		2.4758				10.1		20.0			
Methylene Chloride	+++++ 0.2654	0.3204 0.2494	0.2725	0.2772	0.2655	Ave		0.2751			0.1000	8.8		20.0			
2-Methyl-2-propanol	+++++ 1.3698	2.1123 1.2857	1.3838	1.3358	1.3079	QuaF		1.4097	-0.000025						1.0000		0.9900
Methyl tert-butyl ether	+++++ 0.7931	0.7220 0.7327	0.7517	0.8078	0.7739	Ave		0.7636			0.1000	4.4		20.0			
trans-1,2-Dichloroethene	+++++ 0.2438	0.2461 0.2257	0.2535	0.2521	0.2380	Ave		0.2432			0.1000	4.2		20.0			
Acrylonitrile	8.8216 6.2001	6.3097 +++++	6.2619	6.8870	6.3663	Ave		6.8078				14.9		20.0			
Hexane	+++++ 0.3318	0.3863 0.3074	0.2854	0.3106	0.3069	Ave		0.3214				10.9		20.0			
Isopropyl ether	+++++ 1.0997	1.0121 1.0114	1.0527	1.1541	1.1216	Ave		1.0753				5.5		20.0			
1,1-Dichloroethane	+++++ 0.5394	0.5451 0.4932	0.5404	0.5701	0.5530	Ave		0.5402			0.2000	4.7		20.0			
Vinyl acetate	+++++ 0.6602	0.6462 0.6080	0.5019	0.7619	0.7667	Ave		0.6575				15.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.2230	0.1916 0.2121	0.2071	0.2267	0.2199	Ave		0.2134				6.0		20.0			
Tert-butyl ethyl ether	+++++ 0.8542	0.8531 0.8066	0.8386	0.9373	0.9013	Ave		0.8652				5.4		20.0			
2,2-Dichloropropane	+++++ 0.1349	0.1641 0.1097	0.1289	0.1439	0.1340	Ave		0.1359				13.2		20.0			
cis-1,2-Dichloroethene	+++++ 0.3136	0.3136 0.2898	0.2990	0.3205	0.3086	Ave		0.3075			0.1000	3.6		20.0			
2-Butanone (MEK)	+++++ 0.2415	0.2415 0.2262	0.2506	0.2448	0.2373	Ave		0.2403			0.0500	3.4		20.0			
Ethyl acetate	+++++ 0.2554	0.2976 0.2428	0.2426	0.2502	0.2434	Ave		0.2553				8.4		20.0			
Methyl acrylate	+++++ 0.2970	0.2427 0.3004	0.2325	0.2558	0.2702	Ave		0.2664				10.5		20.0			
Propionitrile	+++++ 2.5127	2.5447 2.2238	2.5005	2.6449	2.4849	Ave		2.4853				5.6		20.0			
Chlorobromomethane	+++++ 0.1315	0.1477 0.1233	0.1267	0.1381	0.1343	Ave		0.1336				6.5		20.0			
Tetrahydrofuran	+++++ 0.2706	0.4014 +++++	0.3027	0.2969	0.2794	Ave		0.3102				17.0		20.0			
Methacrylonitrile	+++++ 0.1270	0.1106 0.1123	0.1125	0.1252	0.1279	Ave		0.1193				6.9		20.0			
Chloroform	+++++ 0.5192	0.5240 0.4567	0.5009	0.5374	0.5242	Ave		0.5104			0.2000	5.7		20.0			
Cyclohexane	+++++ 0.3756	0.3381 0.3522	0.3893	0.3707	0.3559	Ave		0.3636			0.1000	5.1		20.0			
1,1,1-Trichloroethane	+++++ 0.4307	0.4448 0.4087	0.4290	0.4375	0.4264	Ave		0.4295			0.1000	2.8		20.0			
Carbon tetrachloride	+++++ 0.3526	0.3531 0.3406	0.3448	0.3528	0.3451	Ave		0.3482			0.1000	1.5		20.0			
1,1-Dichloropropene	+++++ 0.4098	0.4304 0.4000	0.3994	0.4147	0.4068	Ave		0.4102				2.8		20.0			
Isobutyl alcohol	+++++ 0.9519	1.1545 0.8622	0.9715	1.0300	0.9615	Ave		0.9886				9.9		20.0			
2,2,4-Trimethylpentane	+++++ 0.6585	0.6531 0.6048	0.6244	0.6534	0.6425	Ave		0.6395				3.3		20.0			
Benzene	+++++ 1.6498	1.5834 1.5771	1.5918	1.7036	1.6664	Ave		1.6287			0.5000	3.2		20.0			
Isopropyl acetate	+++++ 0.9673	0.7864 0.9350	0.7923	0.8711	0.9404	Ave		0.8821				8.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-amyl methyl ether	+++++ 0.2330	0.2034 0.2223	0.2067	0.2288	0.2342	Ave		0.2214				6.0		20.0			
1,2-Dichloroethane	+++++ 0.4479	0.5000 0.4223	0.4319	0.4571	0.4440	Ave		0.4505			0.1000	6.0		20.0			
n-Heptane	+++++ 0.1530	0.1368 0.1393	0.1261	0.1394	0.1375	Ave		0.1387				6.2		20.0			
n-Butanol	+++++ 0.4478	0.5600 0.4083	0.4438	0.4885	0.4489	Ave		0.4662				11.3		20.0			
Trichloroethene	+++++ 0.3063	0.3056 0.2896	0.2999	0.3003	0.2960	Ave		0.2996			0.2000	2.1		20.0			
Methylcyclohexane	+++++ 0.4166	0.3738 0.3921	0.4228	0.4064	0.4018	Ave		0.4022			0.1000	4.4		20.0			
Ethyl acrylate	+++++ 0.8132	0.7091 0.7938	0.7060	0.7547	0.7737	Ave		0.7584				5.8		20.0			
1,2-Dichloropropane	+++++ 0.3431	0.3482 0.3284	0.3247	0.3400	0.3362	Ave		0.3368			0.1000	2.6		20.0			
Methyl methacrylate	+++++ 0.0736	0.0535 0.0737	0.0600	0.0675	0.0706	Ave		0.0665				12.3		20.0			
1,4-Dioxane	+++++ 1.1273	1.2334 0.9850	1.3616	1.2429	1.2315	Ave		1.1970				10.7		20.0			
Dibromomethane	+++++ 0.2049	0.1909 0.1868	0.1933	0.2090	0.2025	Ave		0.1979				4.4		20.0			
n-Propyl acetate	+++++ 0.5078	0.4388 0.5148	0.4546	0.4625	0.4859	Ave		0.4774				6.4		20.0			
Bromodichloromethane	+++++ 0.4378	0.4121 0.4216	0.4125	0.4327	0.4266	Ave		0.4239			0.2000	2.5		20.0			
2-Nitropropane	+++++ 4.9389	5.5046 4.5285	4.5215	4.8897	4.6533	Ave		4.8394				7.7		20.0			
2-Chloroethyl vinyl ether	+++++ +++++	+++++ 0.0025	+++++	+++++	+++++	Ave		0.0025						20.0			
Epichlorohydrin	0.2659 0.1240	0.1776 0.1180	0.1583	0.1578	0.1361	Qua2	0.5922	0.1478	-0.000003						0.9970		0.9900
cis-1,3-Dichloropropene	+++++ 0.7271	0.6537 0.7169	0.6342	0.7036	0.6937	Ave		0.6882			0.2000	5.3		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 2.3655	2.4437 2.1108	2.3165	2.5215	2.3853	Ave		2.3572			0.0500	5.9		20.0			
Toluene	+++++ 1.6705	1.7084 1.5901	1.6487	1.7017	1.6831	Ave		1.6671			0.4000	2.6		20.0			
trans-1,3-Dichloropropene	+++++ 0.6723	0.6467 0.6684	0.5947	0.6447	0.6482	Ave		0.6458			0.1000	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	+++++ 0.4059	0.3576 0.4054	0.3483	0.3691	0.3750	Ave		0.3769				6.4		20.0			
1,1,2-Trichloroethane	+++++ 0.3491	0.3744 0.3447	0.3235	0.3393	0.3416	Ave		0.3454			0.1000	4.8		20.0			
Tetrachloroethene	+++++ 0.3504	0.3326 0.3366	0.3320	0.3534	0.3448	Ave		0.3416			0.2000	2.7		20.0			
1,3-Dichloropropane	+++++ 0.6672	0.6152 0.6563	0.6032	0.6479	0.6463	Ave		0.6393				3.9		20.0			
2-Hexanone	+++++ 0.8920	1.0102 0.8269	0.9632	1.0169	0.9212	Ave		0.9384			0.0500	7.8		20.0			
n-Butyl acetate	+++++ 0.7773	0.7593 0.7892	0.7185	0.7999	0.7748	Ave		0.7698				3.7		20.0			
Dibromochloromethane	+++++ 0.4192	0.3752 0.4131	0.3731	0.4001	0.4012	Ave		0.3970			0.1000	4.8		20.0			
1,2-Dibromoethane	+++++ 0.3981	0.3826 0.3959	0.3697	0.3942	0.3886	Ave		0.3882			0.1000	2.7		20.0			
Chlorobenzene	+++++ 1.0302	1.0011 0.9900	0.9891	1.0309	1.0204	Ave		1.0103			0.5000	1.9		20.0			
Ethylbenzene	+++++ 0.5588	0.5549 0.5342	0.5387	0.5652	0.5435	Ave		0.5492			0.1000	2.2		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.3635	0.3375 0.3509	0.3390	0.3659	0.3527	Ave		0.3516				3.4		20.0			
m-Xylene & p-Xylene	+++++ 0.6844	0.8187 0.6491	0.6741	0.6945	0.6841	Ave		0.7008			0.1000	8.5		20.0			
o-Xylene	+++++ 0.6781	0.7187 0.6225	0.6698	0.6993	0.6729	Ave		0.6769			0.3000	4.8		20.0			
n-Butyl acrylate	+++++ 0.3797	0.3942 0.3677	0.3414	0.3849	0.3761	Ave		0.3740				4.9		20.0			
Styrene	+++++ 1.2084	1.1049 1.1231	1.1348	1.2290	1.1999	Ave		1.1667			0.3000	4.4		20.0			
Amyl acetate (mixed isomers)	+++++ 1.8760	1.8005 1.7569	1.7502	1.9251	1.8598	Ave		1.8281				3.8		20.0			
Bromoform	+++++ 0.2705	0.2349 0.2616	0.2354	0.2613	0.2544	Ave		0.2530			0.1000	5.8		20.0			
Isopropylbenzene	+++++ 1.6781	1.6086 1.5395	1.6168	1.6538	1.6709	Ave		1.6280			0.1000	3.2		20.0			
Bromobenzene	+++++ 0.8745	0.8476 0.8029	0.8423	0.8624	0.8462	Ave		0.8460				2.9		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.0765	1.0781 0.9758	1.0058	1.0934	1.0596	Ave		1.0482			0.3000	4.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	+++++ 4.0261	4.0141 3.4854	3.8657	3.9931	4.0047	Ave		3.8982				5.4		20.0			
1,2,3-Trichloropropane	+++++ 0.2666	0.2816 0.2597	0.2669	0.2778	0.2623	Ave		0.2692				3.2		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.3562	0.3351 0.3485	0.3013	0.3382	0.3453	Ave		0.3374				5.7		20.0			
2-Chlorotoluene	+++++ 2.9502	2.9674 2.5563	2.8417	2.9343	2.9203	Ave		2.8617				5.4		20.0			
4-Ethyltoluene	+++++ 3.3130	3.9507 2.8425	3.3678	3.3693	3.3861	Ave		3.3716				10.4		20.0			
1,3,5-Trimethylbenzene	+++++ 2.8642	3.0747 2.5673	2.8497	2.9039	2.8465	Ave		2.8510				5.7		20.0			
4-Chlorotoluene	+++++ 2.7687	2.7191 2.5011	2.5911	2.8030	2.6655	Ave		2.6747				4.2		20.0			
Butyl Methacrylate	+++++ 1.2056	1.0946 1.1320	1.1038	1.1783	1.1738	Ave		1.1480				3.9		20.0			
tert-Butylbenzene	+++++ 2.1957	2.1647 1.9521	2.1231	2.2256	2.1452	Ave		2.1344				4.5		20.0			
1,2,4-Trimethylbenzene	+++++ 3.0020	3.5270 2.6242	2.9910	3.1036	3.0008	Ave		3.0414				9.5		20.0			
sec-Butylbenzene	+++++ 3.1501	3.0701 2.7887	3.0582	3.1898	3.1330	Ave		3.0650				4.7		20.0			
1,3-Dichlorobenzene	+++++ 1.4742	1.3954 1.2516	1.3966	1.4953	1.4888	Ave		1.4170			0.6000	6.5		20.0			
4-Isopropyltoluene	+++++ 2.6162	2.5262 2.2253	2.5525	2.7130	2.7038	Ave		2.5562				7.0		20.0			
1,4-Dichlorobenzene	+++++ 1.5290	1.4901 1.3403	1.4513	1.5588	1.5333	Ave		1.4838			0.5000	5.4		20.0			
1,2,3-Trimethylbenzene	+++++ 3.0970	3.2853 2.6243	3.1567	3.2827	3.2236	Ave		3.1116				8.0		20.0			
Benzyl chloride	+++++ 2.0195	1.8147 1.9181	1.4129	1.9718	1.9377	Ave		1.8458				12.1		20.0			
Indan	+++++ 2.9515	3.1338 2.4731	3.0418	3.1315	3.0463	Ave		2.9630				8.4		20.0			
p-Diethylbenzene	+++++ 1.4264	1.3831 1.3219	1.4320	1.5102	1.5229	Ave		1.4328				5.3		20.0			
n-Butylbenzene	+++++ 1.3789	1.3287 1.2457	1.2849	1.3558	1.3824	Ave		1.3294				4.1		20.0			
1,2-Dichlorobenzene	+++++ 1.4918	1.4796 1.3358	1.4158	1.5243	1.5106	Ave		1.4597			0.4000	4.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 2.6616	2.7009 2.2744	2.6323	2.7737	2.7429	Ave		2.6310				6.9		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.1492	0.1463 0.1458	0.1345	0.1385	0.1430	Ave		0.1429			0.0500	3.8		20.0			
1,3,5-Trichlorobenzene	+++++ 0.9461	0.9014 0.8597	0.8600	0.9406	0.9440	Ave		0.9086				4.5		20.0			
1,2,4-Trichlorobenzene	+++++ 0.8706	0.8050 0.7917	0.7958	0.8322	0.8348	Ave		0.8217			0.2000	3.7		20.0			
Hexachlorobutadiene	+++++ 0.3114	0.3067 0.2883	0.3013	0.3047	0.3023	Ave		0.3025				2.6		20.0			
Naphthalene	+++++ 2.3623	2.7864 2.2001	2.2128	2.3126	2.2991	Ave		2.3622				9.2		20.0			
1,2,3-Trichlorobenzene	+++++ 0.7259	0.6075 0.6762	0.6123	0.6736	0.6800	Ave		0.6626				6.8		20.0			
Dibromofluoromethane (Surr)	0.2309 0.2247	0.2310 0.2265	0.2289	0.2310	0.2290	Ave		0.2289				1.1		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3113 0.3057	0.3075 0.3092	0.3055	0.3123	0.3065	Ave		0.3083				0.9		20.0			
Toluene-d8 (Surr)	1.2253 1.2104	1.1981 1.2585	1.2144	1.2153	1.2118	Ave		1.2191				1.6		20.0			
4-Bromofluorobenzene	0.3523 0.3559	0.3493 0.3683	0.3539	0.3591	0.3540	Ave		0.3561				1.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-531219/3	J71643.D
Level 2	STD1 460-531219/4	J71644.D
Level 3	STD5 460-531219/5	J71645.D
Level 4	STD20 460-531219/6	J71646.D
Level 5	STD50 460-531219/7	J71647.D
Level 6	STD200 460-531219/8	J71648.D
Level 7	STD500 460-531219/9	J71649.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 67122	249 170887	1212	4742	12873	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 627241	2954 1514931	12727	49507	117887	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 782788	4023 1929834	16626	66316	160847	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 665626	3059 1583396	14644	57507	138860	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	848 589066	2294 1386610	12788	50800	120960	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	QuaF	+++++ 245806	943 419555	3320	21304	45775	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 324096	1390 696244	6555	29923	71987	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorofluoromethane	FB	Ave	+++++ 869773	3821 2080321	21376	87324	209526	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 691623	2858 1610859	16417	65091	151251	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd 9	Ave	+++++ 112431	611 269689	2658	10024	24770	+++++ 400	2.00 1000	10.0	40.0	100
Ethanol	TBAd 9	Ave	+++++ 132639	608 340671	2513	12020	29578	+++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	+++++ 405269	2000 955500	9511	39159	96053	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 415716	1634 996176	9398	39925	98255	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 294016	1806 731179	8091	31123	73066	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 376147	1668 937864	9158	35516	86670	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Acrolein	TBAd9	Ave	+++++ 93833	1688 197363	7719	16501	41957	+++++ 200	4.00 400	20.0	40.0	100
1,1-Dichloroethene	FB	Ave	+++++ 371741	1603 906954	8773	35564	86221	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 854553	5146 2118190	19631	77454	194501	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	QuaF	+++++ 452040	1236 1054724	4675	26469	82470	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon disulfide	FB	Ave	+++++ 1514307	7408 3578552	36265	147759	363472	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 342825	1599 894632	8113	34068	85200	+++++ 2000	10.0 5000	50.0	200	500
Allyl chloride	FB	Ave	+++++ 252282	1399 610151	6421	25549	62798	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclopentene	FB	Ave	+++++ 1084231	5233 2632474	28439	111766	274024	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 881346	4340 2138038	20878	84010	210679	+++++ 400	2.00 1000	10.0	40.0	100
Acetonitrile	TBAd9	Ave	+++++ 813995	4209 2033365	19814	82259	199597	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 461800	2640 1122862	11359	46060	111962	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	QuaF	+++++ 467476	3185 1259926	10961	41123	107432	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 1379963	5949 3299152	31333	134242	326295	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 424225	2028 1016325	10565	41902	100361	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	TBAd9	Ave	2870 2115973	9514 +++++	49601	212016	522932	2.00 2000	10.0 +++++	50.0	200	500
Hexane	FB	Ave	+++++ 577334	3183 1383873	11894	51609	129410	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 1913278	8339 4553879	43877	191791	472889	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 938478	4491 2220831	22526	94748	233169	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	FB	Ave	+++++ 2297352	10649 5475375	41837	253242	646519	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 387996	1579 954955	8632	37675	92700	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 1486271	7029 3631751	34955	155772	380029	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 234661	1352 494073	5372	23910	56487	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 545543	2584 1304959	12463	53268	130126	+++++ 200	1.00 500	5.00	20.0	50.0
2-Butanone (MEK)	BUT	Ave	+++++ 286635	1158 731130	6264	25164	65098	+++++ 1000	5.00 2500	25.0	100	250
Ethyl acetate	BUT	Ave	+++++ 121249	571 313916	2425	10289	26711	+++++ 400	2.00 1000	10.0	40.0	100
Methyl acrylate	FB	Ave	+++++ 516661	2000 1352462	9690	42517	113906	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd9	Ave	+++++ 857539	3837 2179295	19807	81424	204107	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 228813	1217 555299	5281	22956	56633	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 128475	770 +++++	3026	12210	30657	+++++ 400	2.00 +++++	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 2210145	9109 5054811	46901	208144	539415	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 903266	4317 2056175	20878	89309	221033	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 653496	2786 1585954	16227	61602	150056	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 749354	3665 1840126	17881	72710	179792	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 613554	2909 1533350	14373	58631	145512	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 713014	3546 1800860	16648	68910	171510	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 812186	4352 2112313	19238	79272	197449	+++++ 5000	25.0 12500	125	500	1250
2,2,4-Trimethylpentane	FB	Ave	+++++ 1145745	5381 2723226	26027	108591	270879	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZd5	Ave	+++++ 2094828	9659 5039651	48273	207465	514626	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 1682919	6479 4209944	33024	144765	396506	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 405424	1676 1000830	8615	38026	98748	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 779346	4120 1901478	18000	75962	187197	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 266140	1127 627142	5254	23173	57976	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd9	Ave	+++++ 382026	2111 1000313	8788	37597	92176	+++++ 5000	25.0 12500	125	500	1250
Trichloroethene	FB	Ave	+++++ 532979	2518 1303885	12501	49910	124810	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 724805	3080 1765235	17621	67538	169406	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 1414797	5842 3574118	29428	125426	326228	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 597007	2869 1478826	13533	56495	141745	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 256158	881 663549	5005	22451	59544	+++++ 400	2.00 1000	10.0	40.0	100
1,4-Dioxane	DXE	Ave	+++++ 125001	1457 323236	3211	12535	30260	+++++ 4000	50.0 10000	100	400	1000
Dibromomethane	FB	Ave	+++++ 356424	1573 841053	8058	34732	85378	+++++ 200	1.00 500	5.00	20.0	50.0
n-Propyl acetate	FB	Ave	+++++ 883582	3615 2317968	18950	76865	204890	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 761749	3395 1898256	17193	71909	179864	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	TBAd9	Ave	+++++ 337111	1660 887571	7163	30106	76445	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloroethyl vinyl ether	FB	Ave	+++++ +++++	+++++ 11449	+++++	+++++	+++++	+++++ +++++	+++++ 500	+++++	+++++	+++++
Epichlorohydrin	BUT	Qua2	1343 588514	3408 1525511	15826	64885	149365	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 923281	3988 2290871	19232	85688	214232	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 2807820	11720 6822054	57897	259243	654363	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZd5	Ave	+++++ 2121106	10422 5081496	49999	207236	519796	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 853696	3945 2136001	18035	78515	200187	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	FB	Ave	+++++ 706274	2946 1825509	14519	61344	158121	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 443319	2284 1101438	9812	41317	105482	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	+++++ 444917	2029 1075657	10067	43039	106478	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 847194	3753 2097200	18294	78898	199586	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Hexanone	BUT	Ave	+++++ 1058795	4845 2672613	24073	104552	252714	+++++ 1000	5.00 2500	25.0	100	250
n-Butyl acetate	CBNZ d5	Ave	+++++ 987021	4632 2522009	21790	97412	239271	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 532329	2289 1319997	11316	48725	123886	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 505544	2334 1265065	11211	48010	120008	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1308141	6107 3163594	29997	125537	315118	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 709537	3385 1707195	16338	68834	167854	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 461595	2059 1121453	10281	44560	108921	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 868983	4994 2074355	20444	84576	211276	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 861036	4384 1989181	20313	85161	207804	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 482071	2405 1175155	10354	46873	116147	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 1534329	6740 3588913	34415	149663	370569	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 1203185	5453 2938790	26776	120272	292920	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 343528	1433 835858	7140	31823	78554	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 2130766	9813 4919678	49032	201398	516032	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 560846	2567 1342965	12887	53883	133274	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 690464	3265 1632169	15387	68313	166885	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 2582198	12157 5830175	59141	249480	630758	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 170978	853 434433	4083	17356	41321	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	+++++ 228424	1015 582999	4610	21130	54380	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 1892152	8987 4276060	43475	183327	459959	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 2124878	11965 4754745	51524	210507	533319	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 1837008	9312 4294334	43597	181427	448329	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 1775732	8235 4183676	39642	175121	419831	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Ave	+++++ 773240	3315 1893515	16887	73616	184878	+++++ 200	1.00 500	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 1408248	6556 3265302	32481	139052	337880	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 1925383	10682 4389624	45759	193902	472645	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 2020363	9298 4664685	46788	199287	493459	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 945521	4226 2093561	21367	93425	234487	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 1677964	7651 3722324	39050	169501	425862	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 980642	4513 2242038	22204	97387	241497	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 1986307	9950 4389734	48295	205094	507724	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 1295251	5496 3208484	21616	123195	305191	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 1892999	9491 4136898	46537	195646	479803	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 914832	4189 2211222	21908	94355	239865	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 884377	4024 2083654	19657	84707	217726	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 956817	4481 2234451	21661	95236	237919	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 1707094	8180 3804438	40271	173293	432025	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 95706	443 243922	2057	8652	22517	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 606808	2730 1438071	13157	58764	148685	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 558378	2438 1324271	12175	51996	131487	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 199752	929 482287	4610	19035	47610	+++++ 200	1.00 500	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 1515108	8439 3680237	33853	144482	362112	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159396-1 Analy Batch No.: 531219

SDG No.:

Instrument ID: CVOAMS8 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/26/2018 21:14 Calibration End Date: 06/26/2018 23:56 Calibration ID: 69657

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 465560	1840 1131131	9368	42082	107104	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	96769 97739	95179 101973	95422	95969	96541	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	130468 132967	126667 139230	127351	129765	129214	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	376198 384234	365426 402178	368282	369997	374223	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	108170 112976	106531 117709	107340	109318	109327	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 26-Jun-2018 21:14:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0074417-003
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:55:36 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boykink Date: 26-Jun-2018 21:58:24

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
5 Butadiene	54	1.530	1.533	-0.003	93	848	0.2500	0.3177	
* 27 TBA-d9 (IS)	65	2.832	2.834	-0.002	0	162669	1000.0	1000.0	
31 Acrylonitrile	53	3.095	3.086	0.009	91	2870	2.00	2.59	
* 39 2-Butanone-d5	46	3.859	3.862	-0.003	0	252552	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.316	4.319	-0.003	95	96769	50.0	50.4	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.659	4.661	-0.002	0	130468	50.0	50.5	
* 62 Fluorobenzene	96	4.921	4.924	-0.003	97	419151	50.0	50.0	
* 68 1,4-Dioxane-d8	96	5.629	5.631	-0.002	0	23973	1000.0	1000.0	
76 Epichlorohydrin	57	6.291	6.294	-0.003	97	1343	5.00	4.99	
$ 79 Toluene-d8 (Surr)	98	6.577	6.579	-0.002	98	376198	50.0	50.3	
* 90 Chlorobenzene-d5	117	8.358	8.360	-0.002	91	307035	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.785	9.787	-0.002	85	108170	50.0	49.5	
* 117 1,4-Dichlorobenzene-d4	152	10.732	10.735	-0.003	98	150596	50.0	50.0	

Reagents:

MIX I Hi_00095	Amount Added:	0.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	0.00	Units: uL	
ACRY/EPIH MIX_00050	Amount Added:	20.00	Units: uL	
Ethanol mix_00016	Amount Added:	0.00	Units: uL	
14DIOXINTER_00085	Amount Added:	0.00	Units: uL	
GAS Hi_00260	Amount Added:	0.00	Units: uL	
GASES Li_00265	Amount Added:	2.50	Units: uL	
ACROLEIN W_00078	Amount Added:	0.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

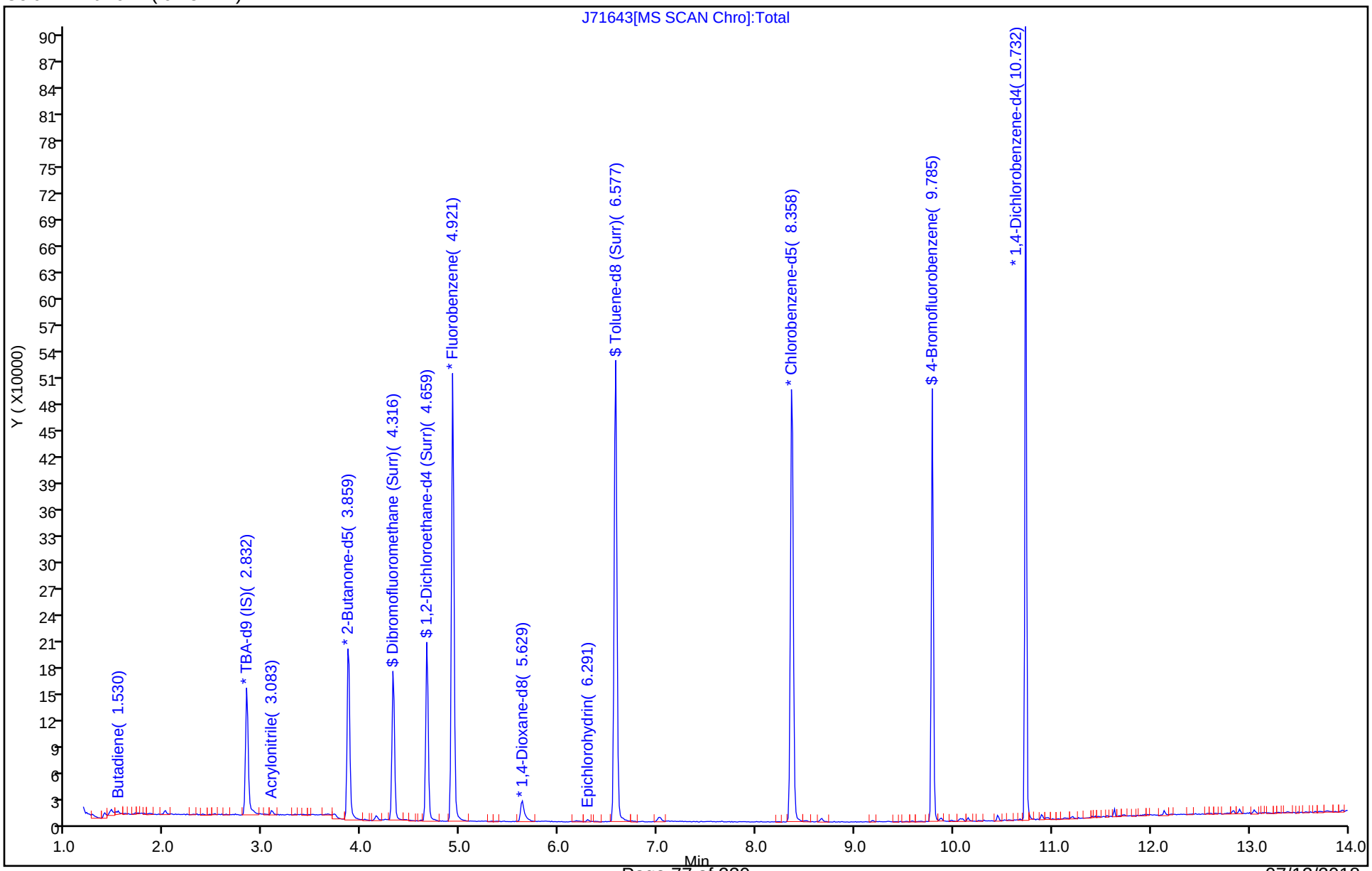
Report Date: 28-Jun-2018 14:55:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D

Injection Date:	26-Jun-2018 21:14:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	STD7			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



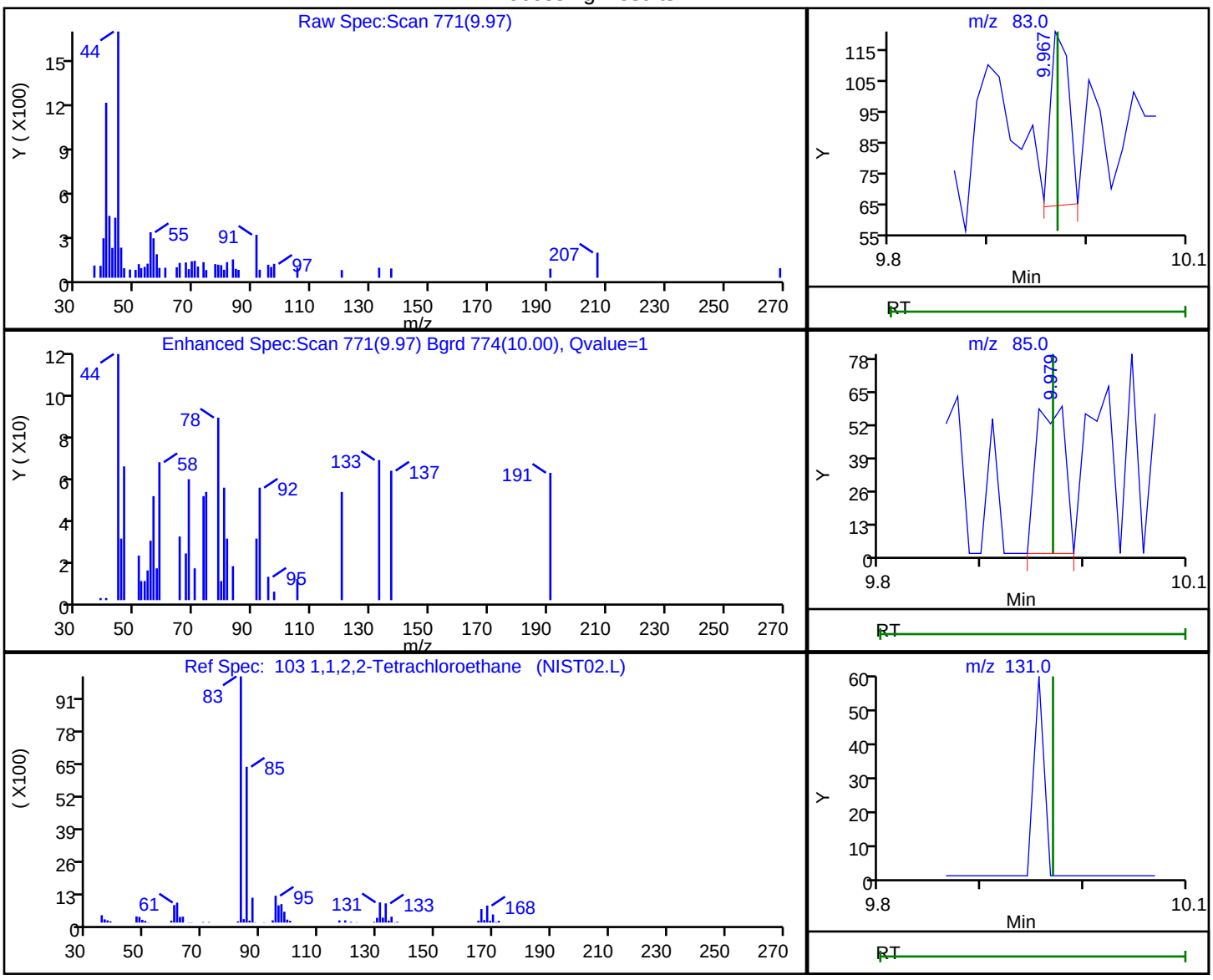
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

103 1,1,2,2-Tetrachloroethane, CAS: 79-34-5

Processing Results



RT	Mass	Response	Amount
9.97	83.00	75	0.023756
9.98	85.00	116	
9.97	131.00	0	

Reviewer: delpolitov, 28-Jun-2018 14:12:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

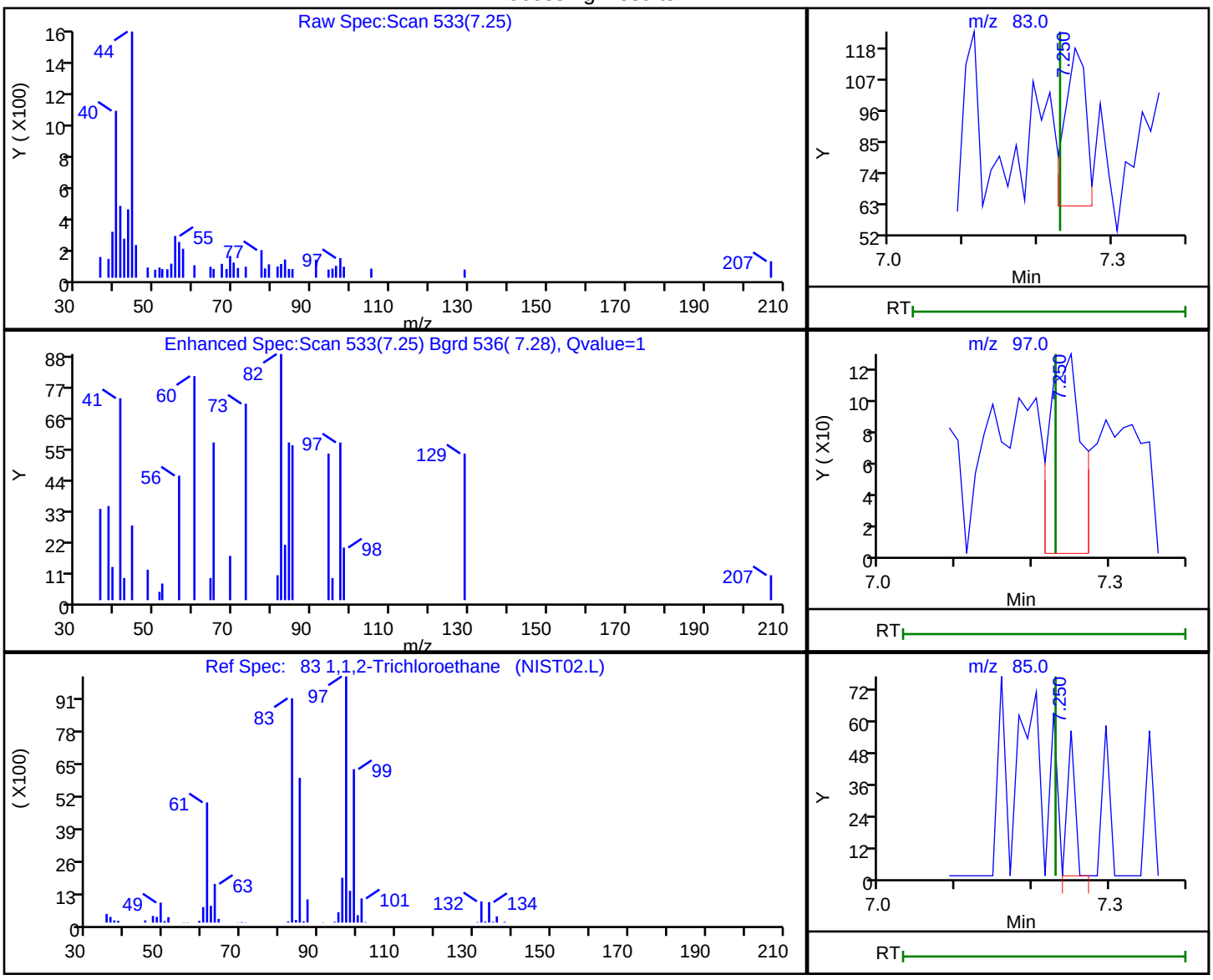
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

83 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.25	83.00	116	0.054686
7.25	97.00	372	
7.25	85.00	38	

Reviewer: delpolitov, 28-Jun-2018 14:12:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

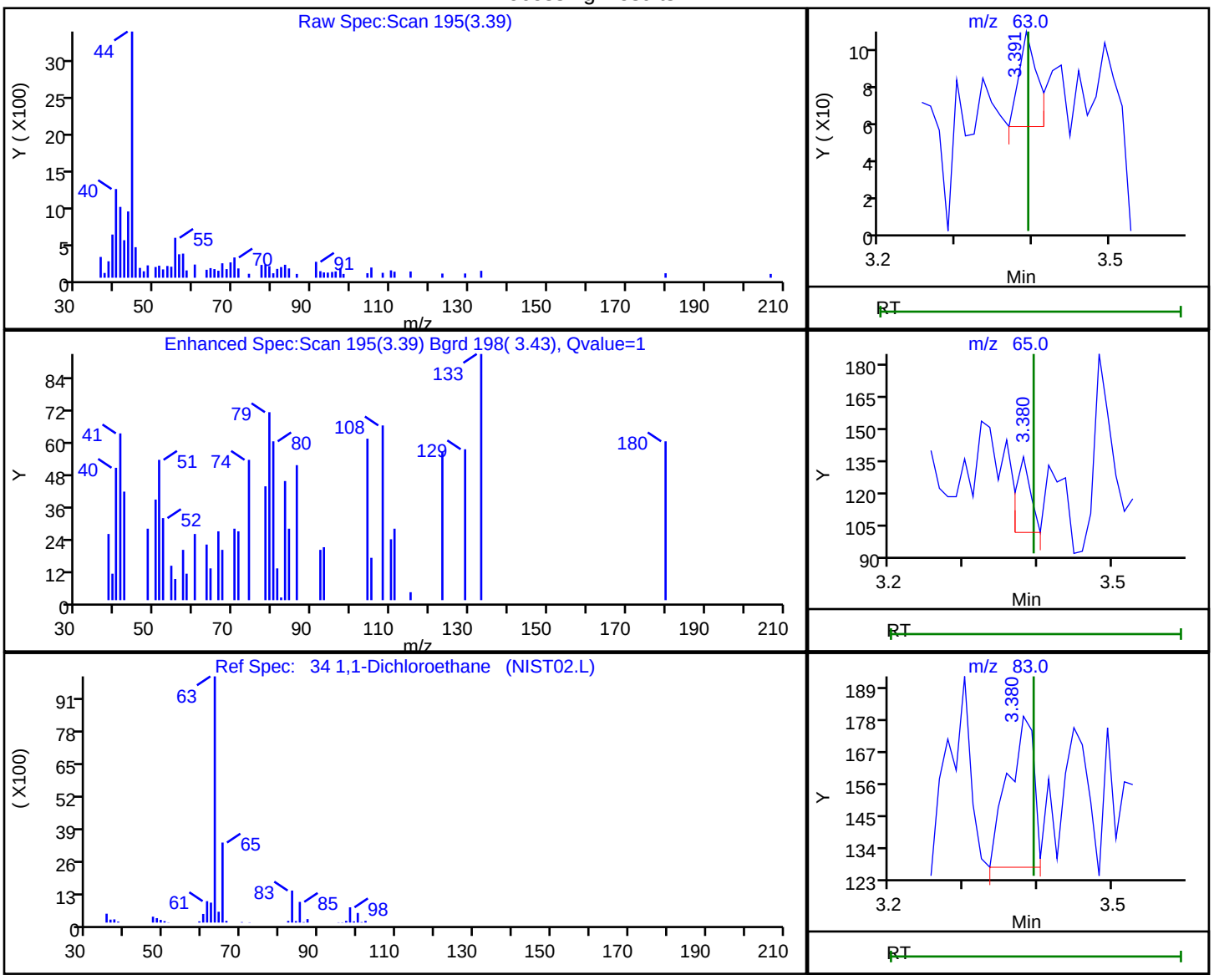
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

34 1,1-Dichloroethane, CAS: 75-34-3

Processing Results



RT	Mass	Response	Amount
3.39	63.00	85	0.018769
3.38	65.00	49	
3.38	83.00	129	

Reviewer: delpolitov, 28-Jun-2018 14:12:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

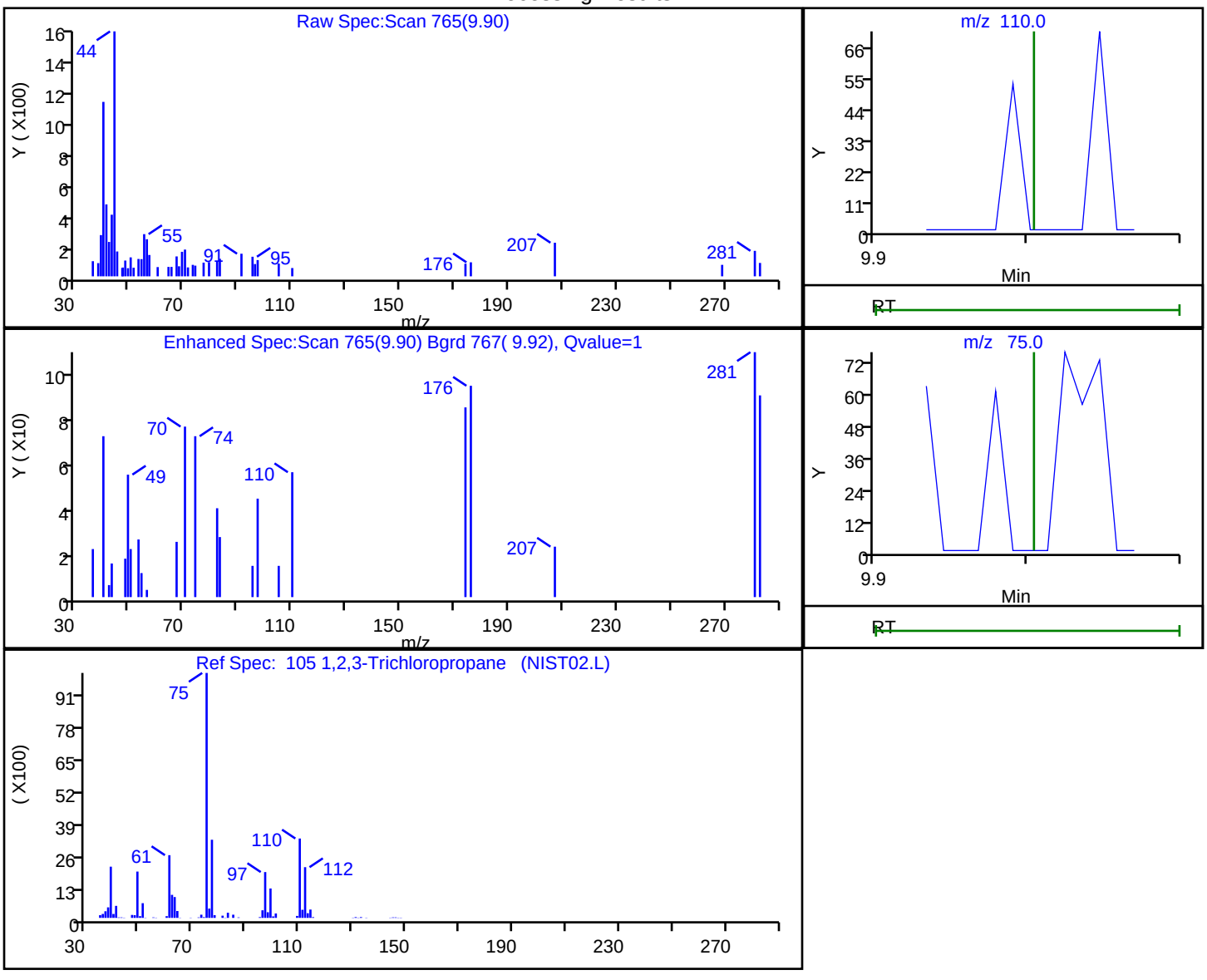
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

105 1,2,3-Trichloropropane, CAS: 96-18-4

Processing Results



RT	Mass	Response	Amount
9.90	110.00	36	0.044406
9.91	75.00	39	

Reviewer: delpolitov, 28-Jun-2018 14:12:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

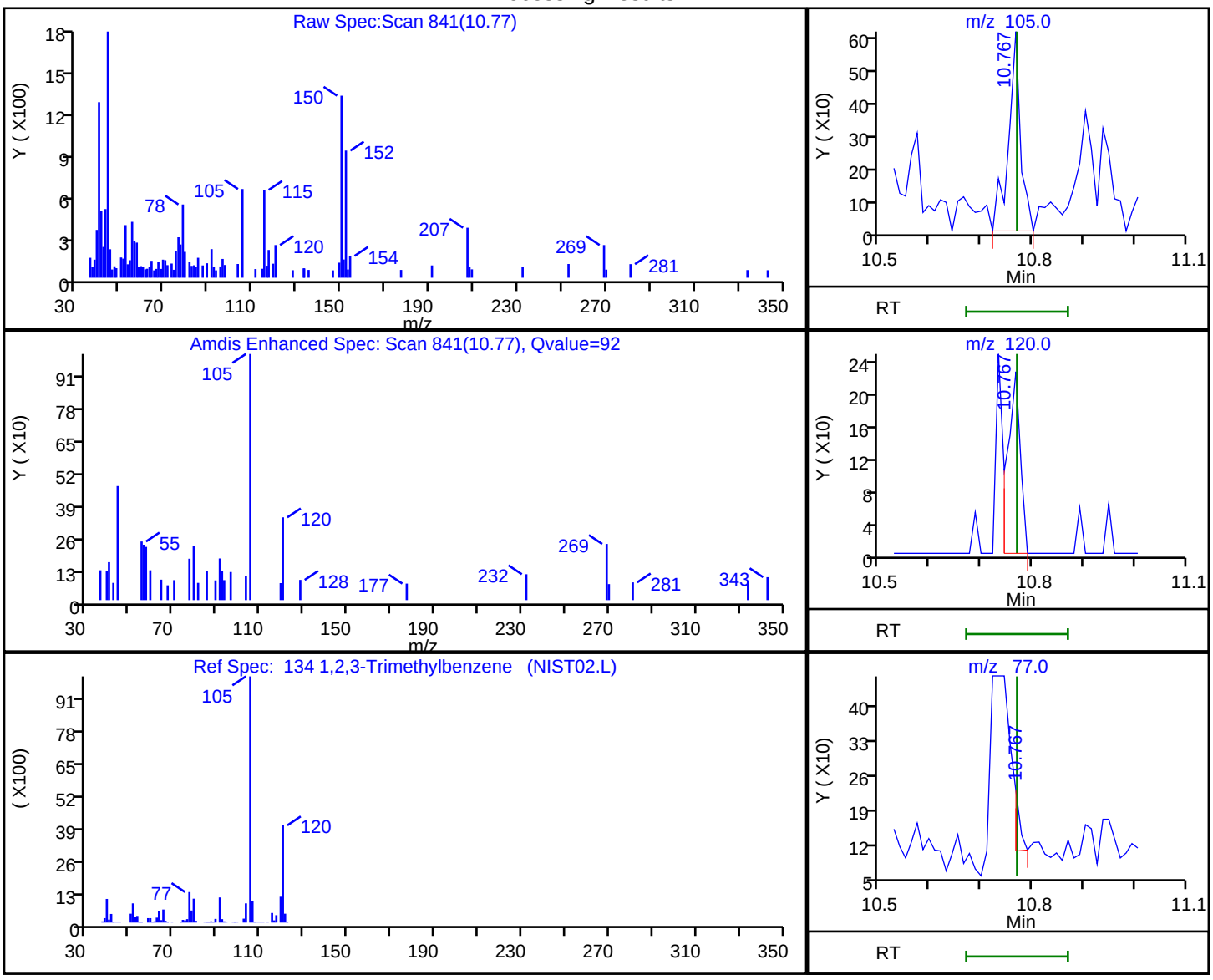
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

134 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
10.77	105.00	1011	
10.77	120.00	393	
10.77	77.00	105	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

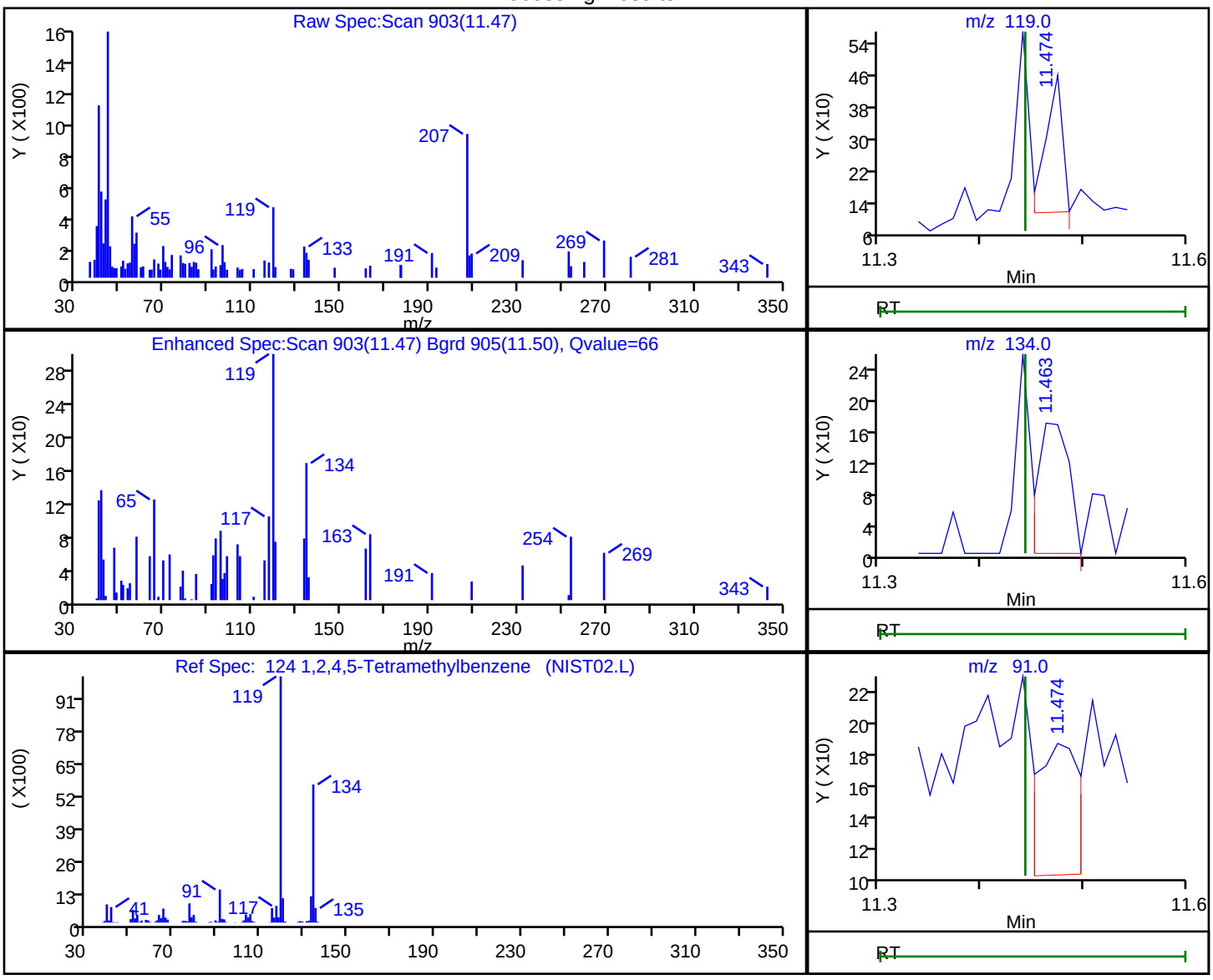
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

124 1,2,4,5-Tetramethylbenzene, CAS: 95-93-2

Processing Results



RT	Mass	Response	Amount
11.47	119.00	404	0.050982
11.46	134.00	352	
11.47	91.00	226	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

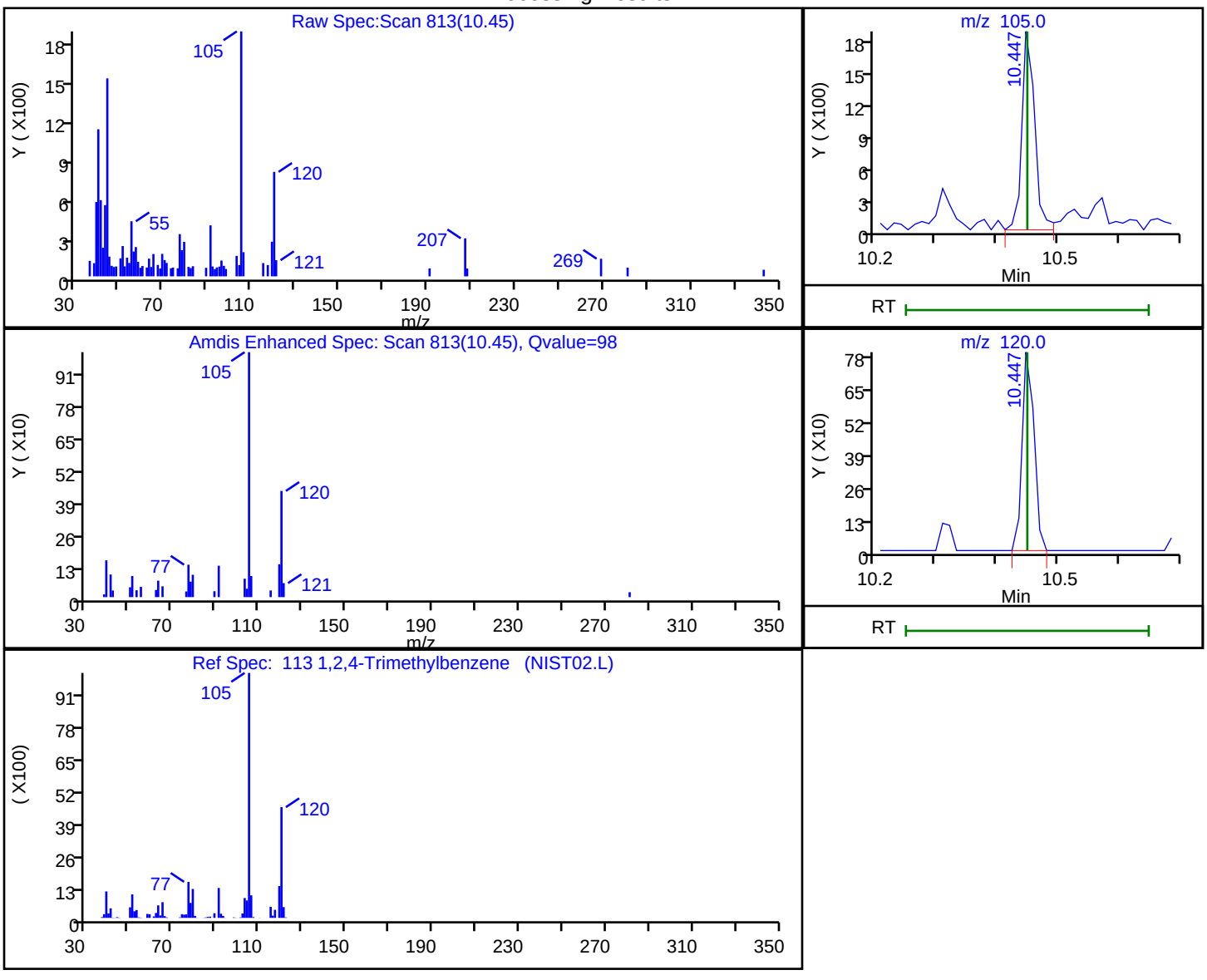
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

113 1,2,4-Trimethylbenzene, CAS: 95-63-6

Processing Results



RT	Mass	Response	Amount
10.45	105.00	2743	0.299435
10.45	120.00	1087	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

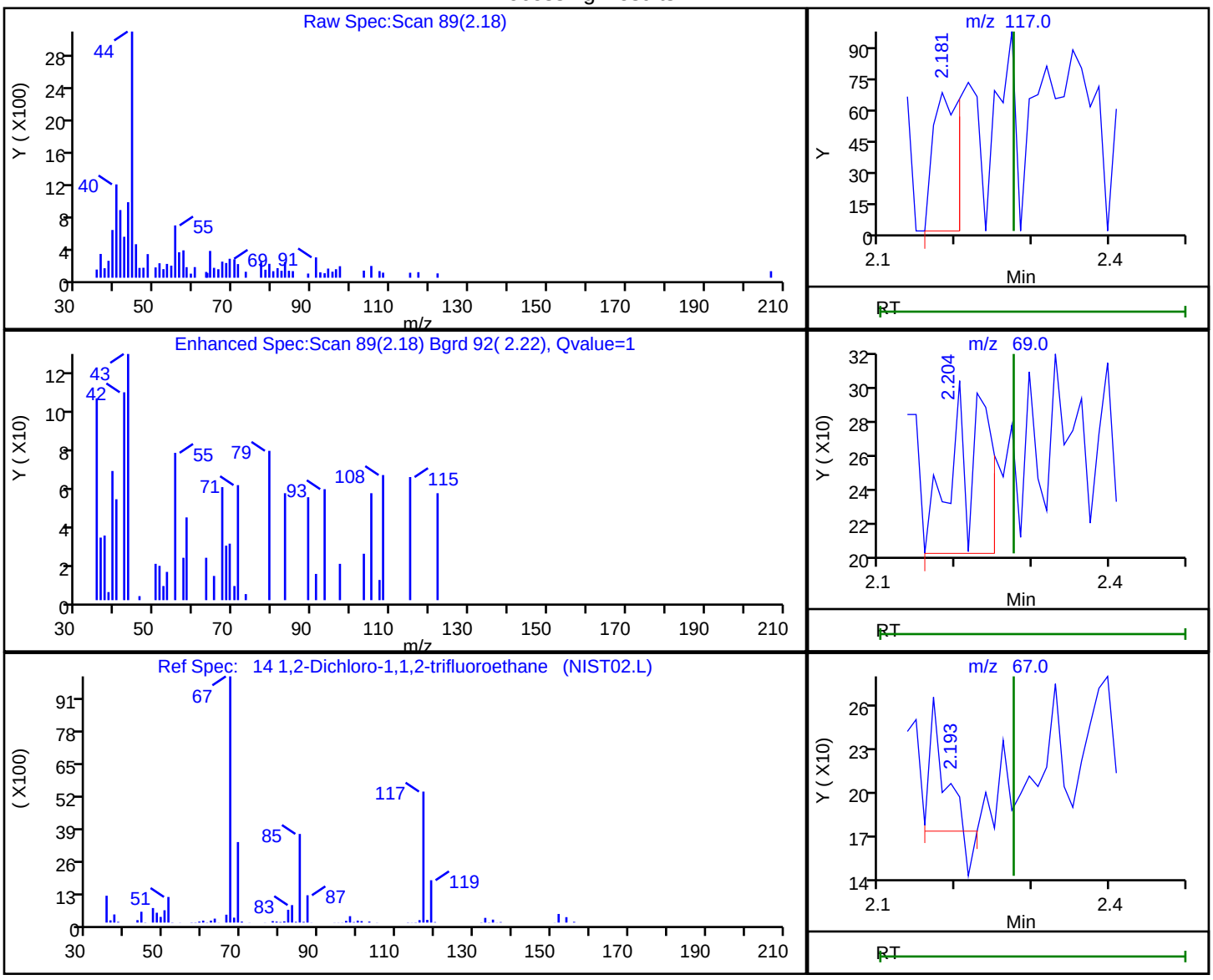
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

14 1,2-Dichloro-1,1,2-trifluoroethane, CAS: 354-23-4

Processing Results



RT	Mass	Response	Amount
2.18	117.00	166	0.106932
2.20	69.00	292	
2.19	67.00	99	
2.16	119.00	190	

Reviewer: delpolitov, 28-Jun-2018 14:11:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

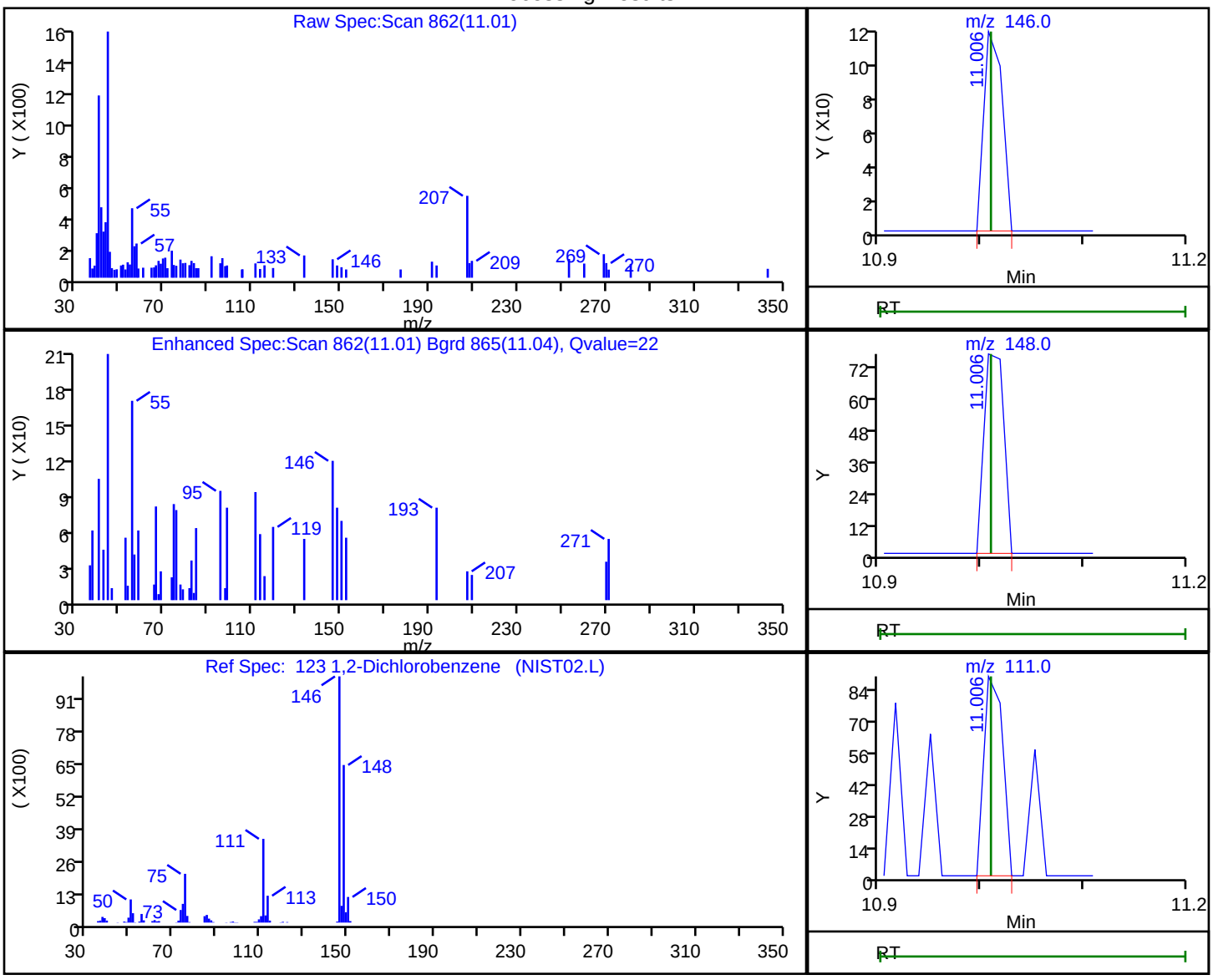
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 1,2-Dichlorobenzene, CAS: 95-50-1

Processing Results



RT	Mass	Response	Amount
11.01	146.00	145	0.032982
11.01	148.00	104	
11.01	111.00	115	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

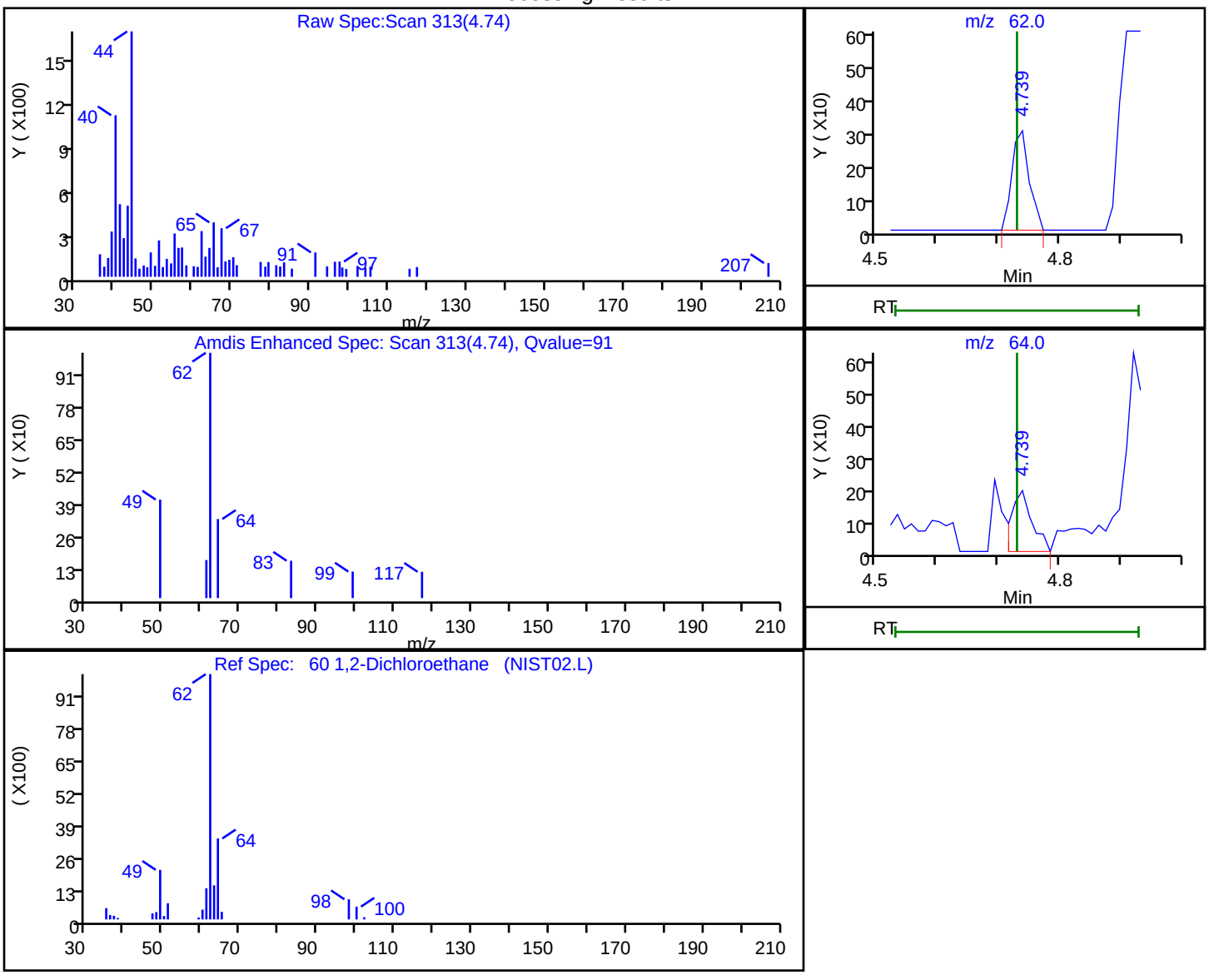
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

60 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.74	62.00	603	0.159656
4.74	64.00	452	

Reviewer: delpolitov, 28-Jun-2018 14:12:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

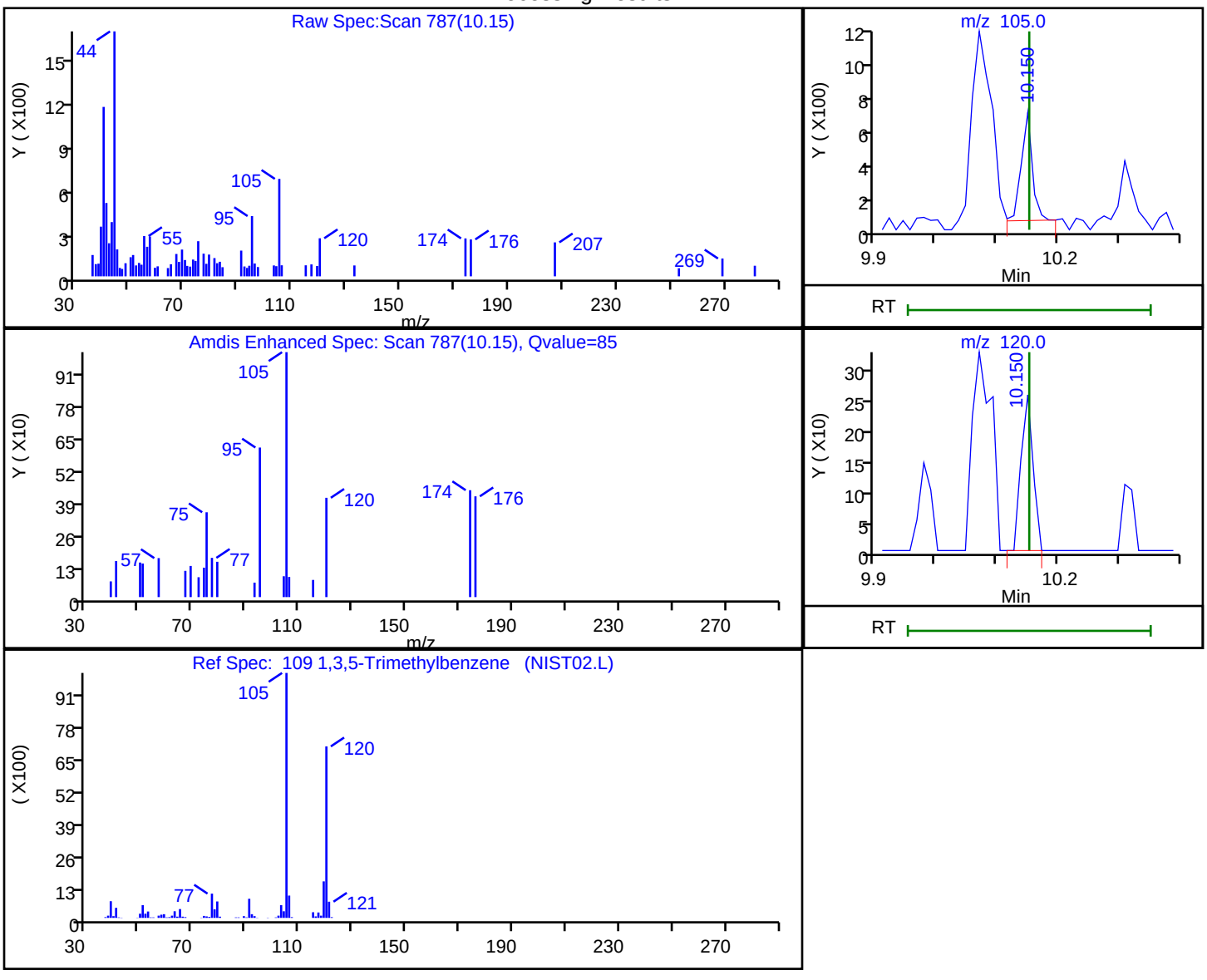
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

109 1,3,5-Trimethylbenzene, CAS: 108-67-8

Processing Results



RT	Mass	Response	Amount
10.15	105.00	775	0.090252
10.15	120.00	356	

Reviewer: delpolitov, 28-Jun-2018 14:12:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

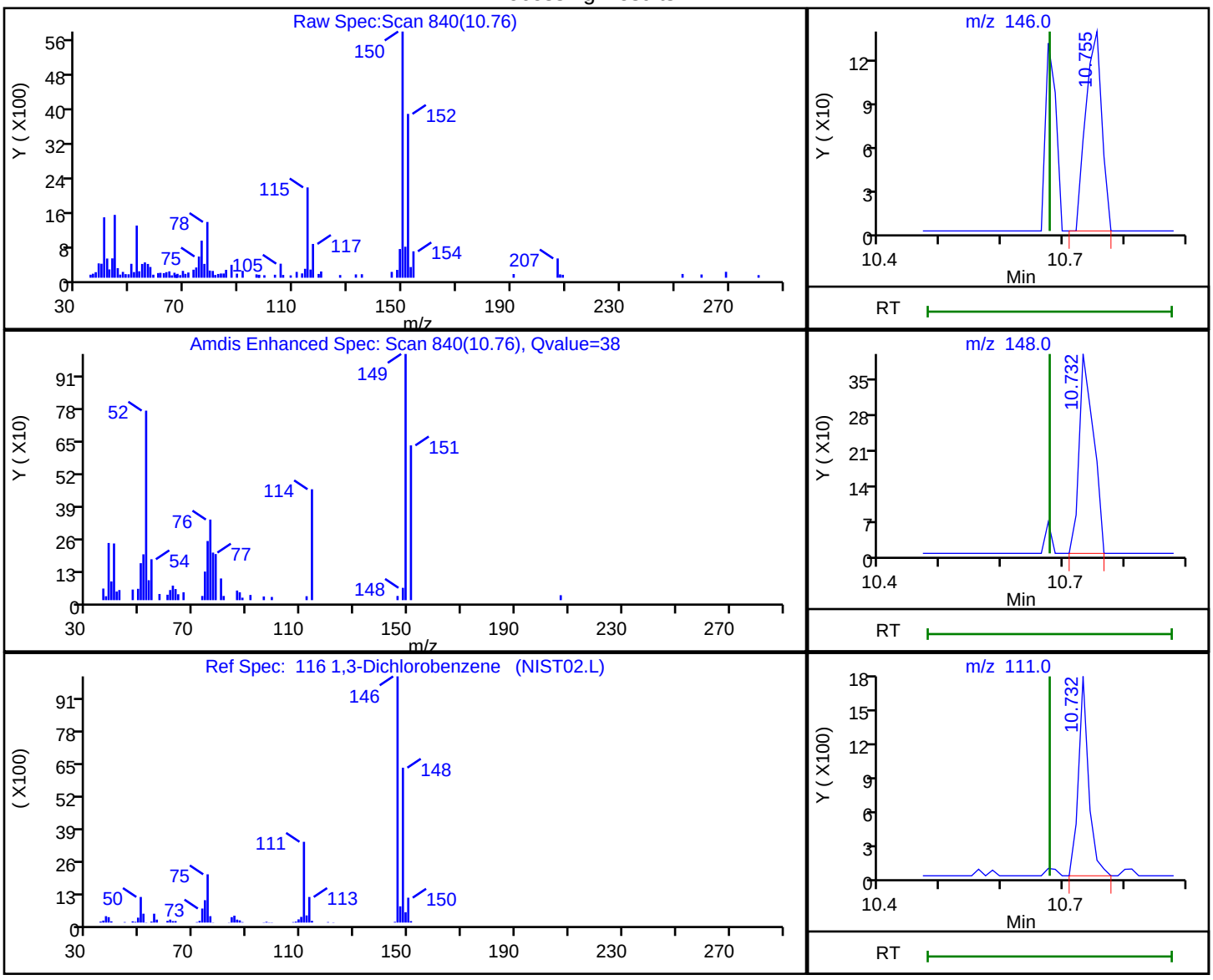
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

116 1,3-Dichlorobenzene, CAS: 541-73-1

Processing Results



RT	Mass	Response	Amount
10.76	146.00	251	0.058812
10.73	148.00	654	
10.73	111.00	2052	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

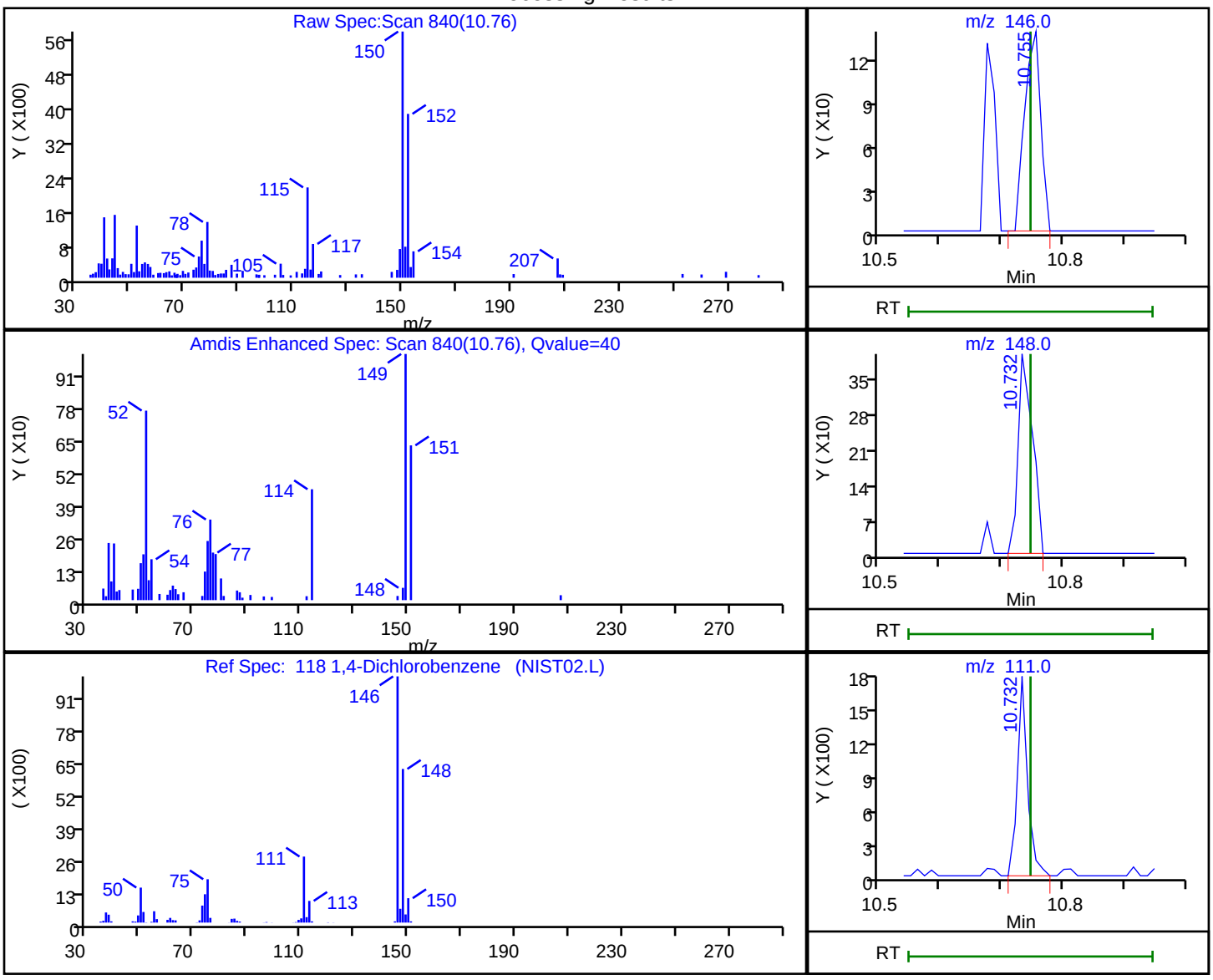
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
10.76	146.00	251	0.056163
10.73	148.00	654	
10.73	111.00	2052	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

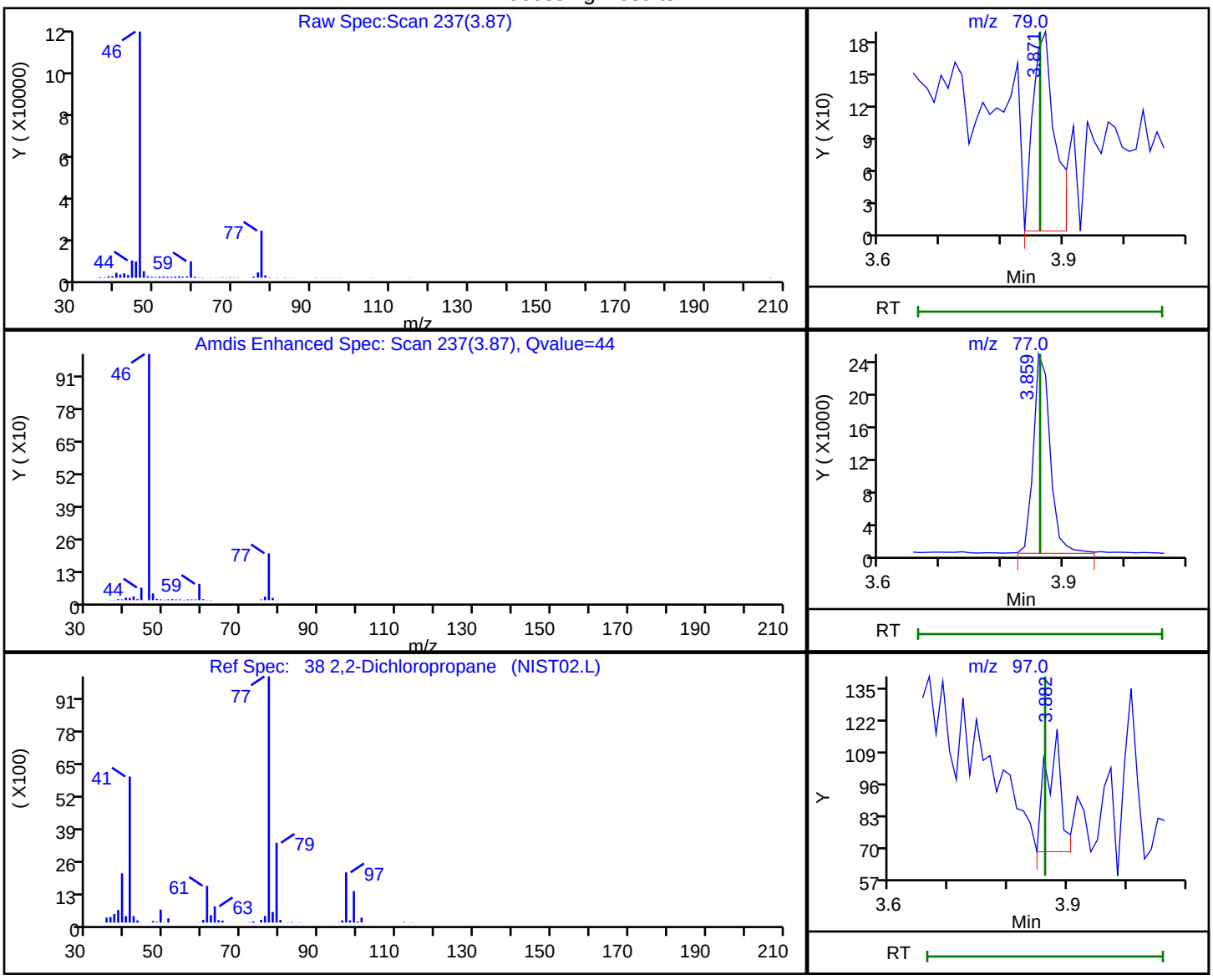
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

38 2,2-Dichloropropane, CAS: 594-20-7

Processing Results



RT	Mass	Response	Amount
3.87	79.00	458	0.402002
3.86	77.00	46644	
3.88	97.00	89	

Reviewer: delpolitov, 28-Jun-2018 14:12:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

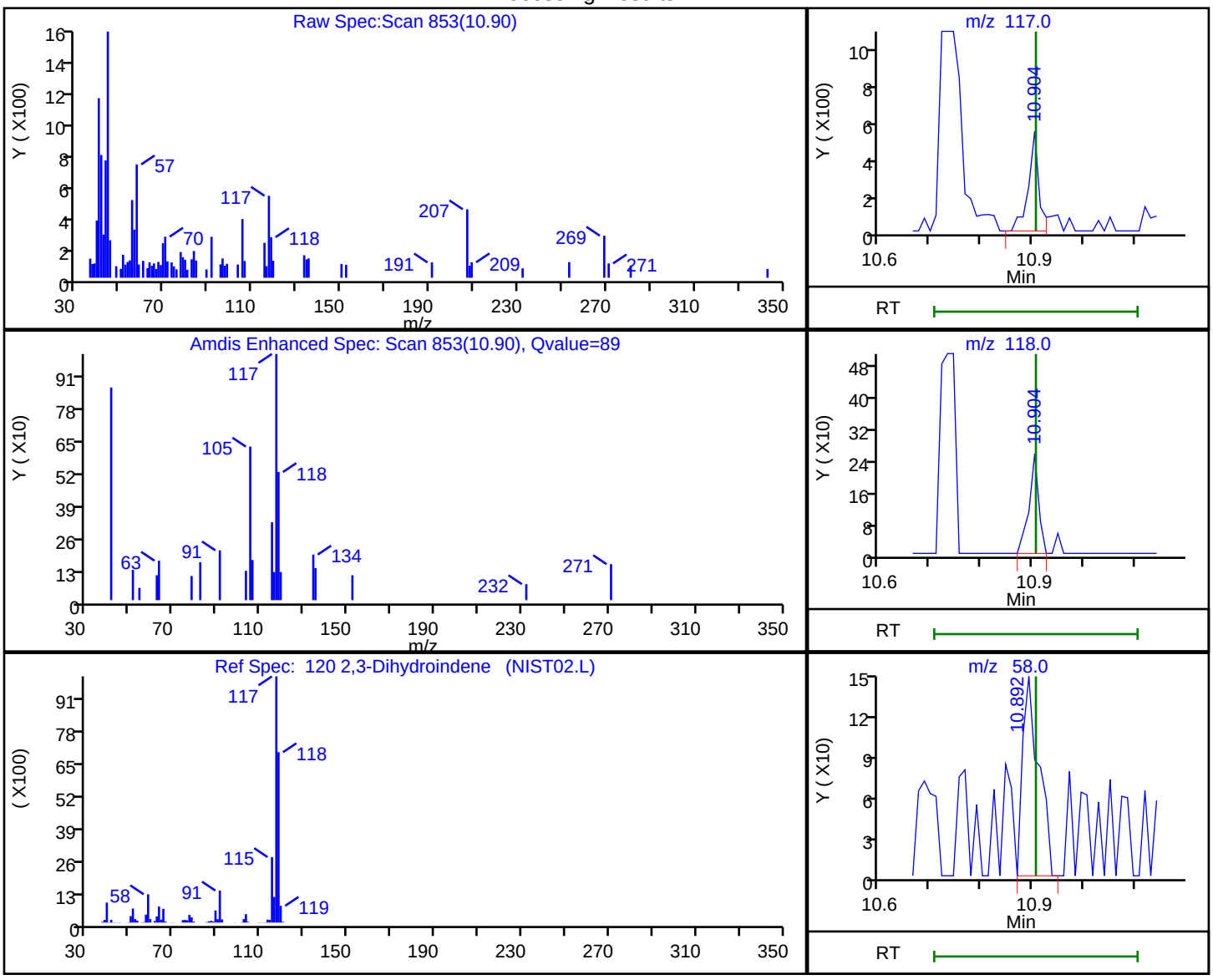
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 2,3-Dihydroindene, CAS: 496-11-7

Processing Results



RT	Mass	Response	Amount
10.90	117.00	743	0.083255
10.90	118.00	339	
10.89	58.00	315	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

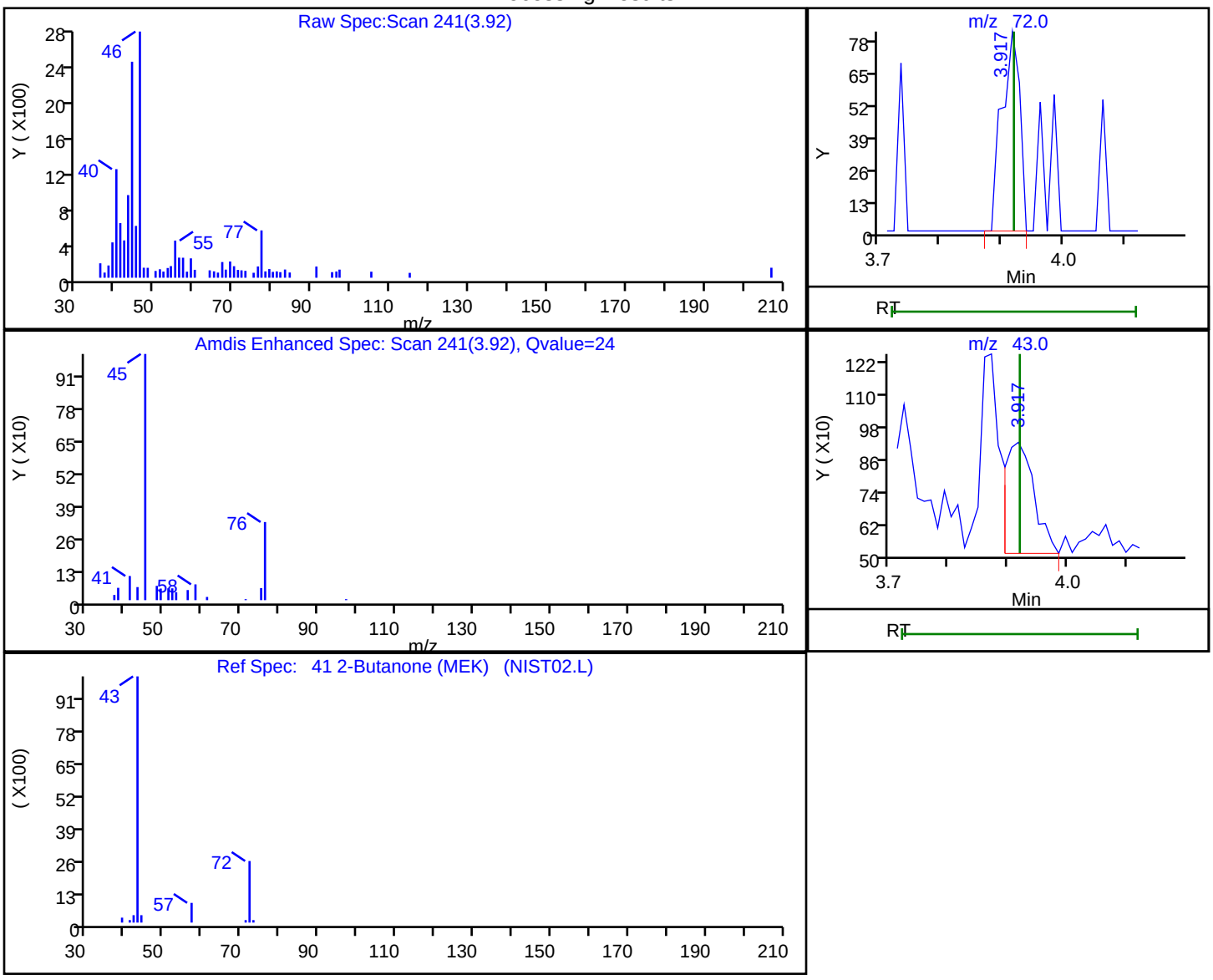
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

41 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.92	72.00	167	0.687928
3.92	43.00	1411	

Reviewer: delpolitov, 28-Jun-2018 14:12:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

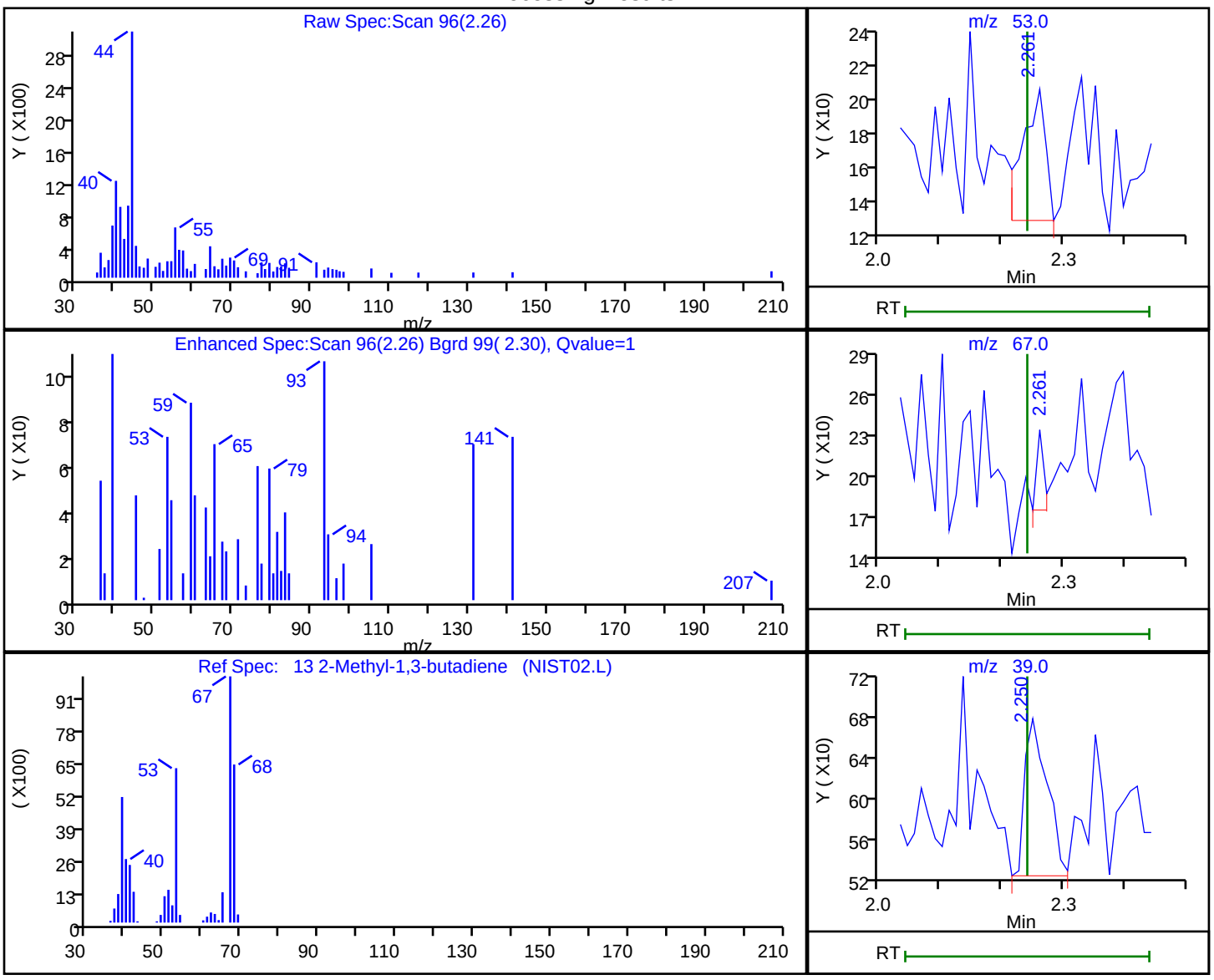
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Processing Results



RT	Mass	Response	Amount
2.26	53.00	196	0.094230
2.26	67.00	49	
2.25	39.00	400	

Reviewer: delpolitov, 28-Jun-2018 14:11:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

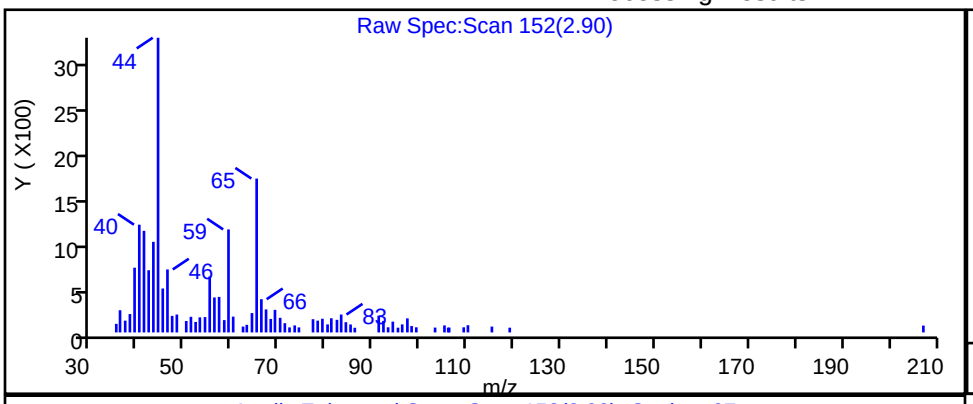
User Disabled Compound Report

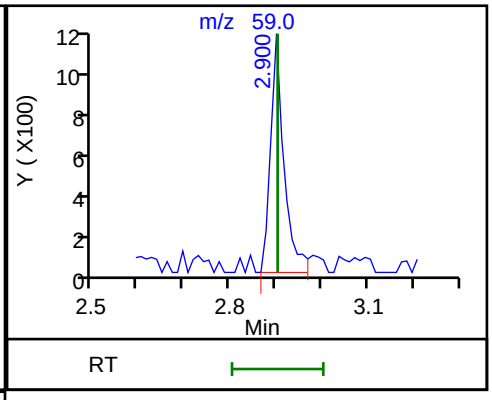
TestAmerica Edison

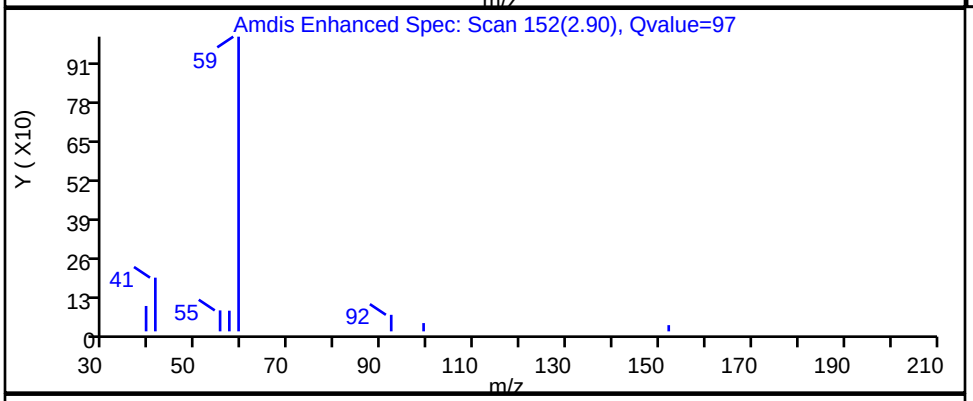
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

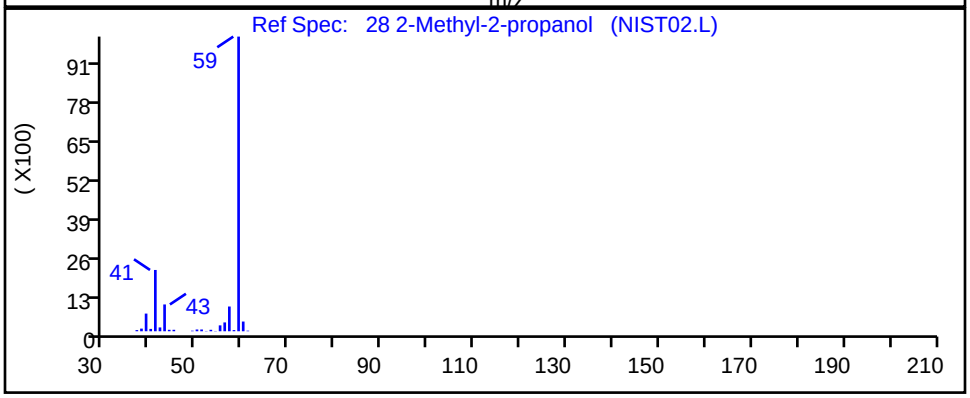
28 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
2.90	59.00	2302	10.040358

Reviewer: delpolitov, 28-Jun-2018 14:11:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

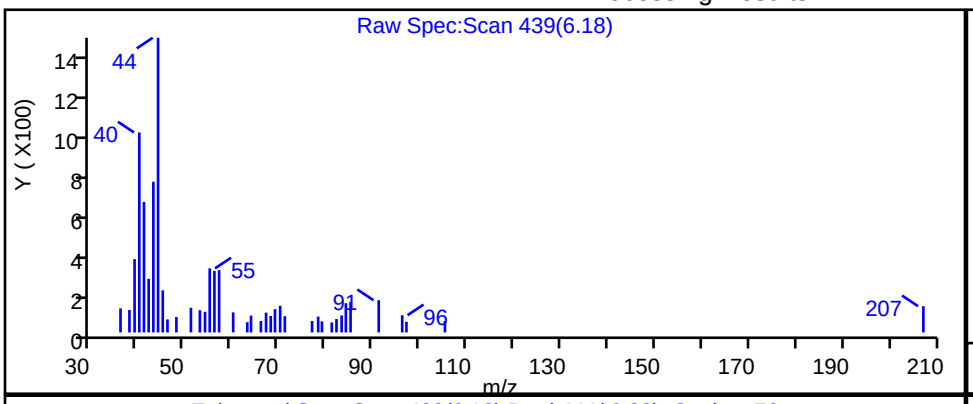
User Disabled Compound Report

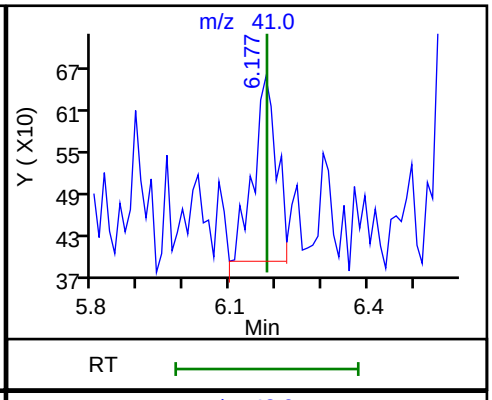
TestAmerica Edison

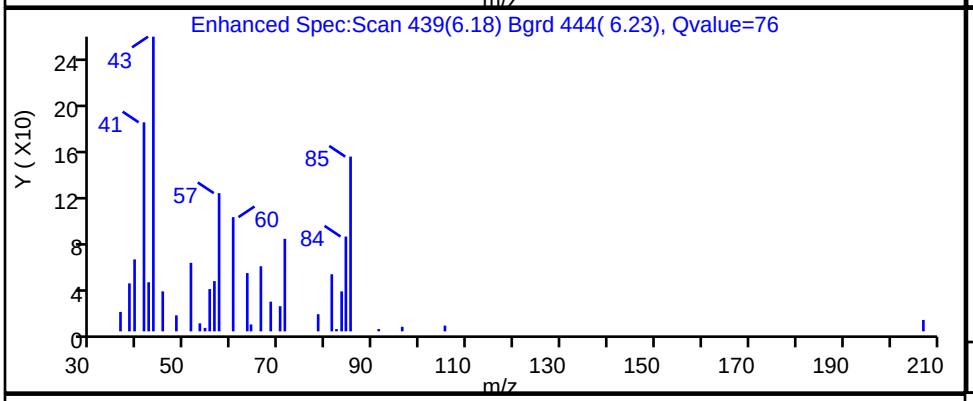
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

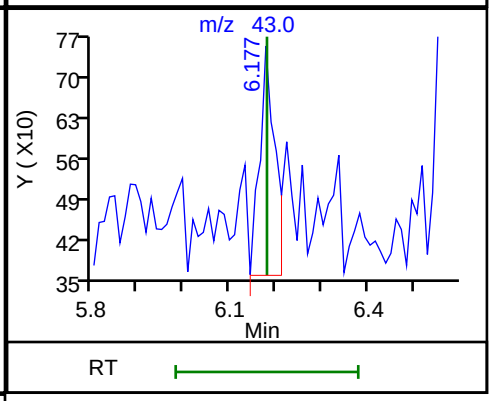
74 2-Nitropropane, CAS: 79-46-9

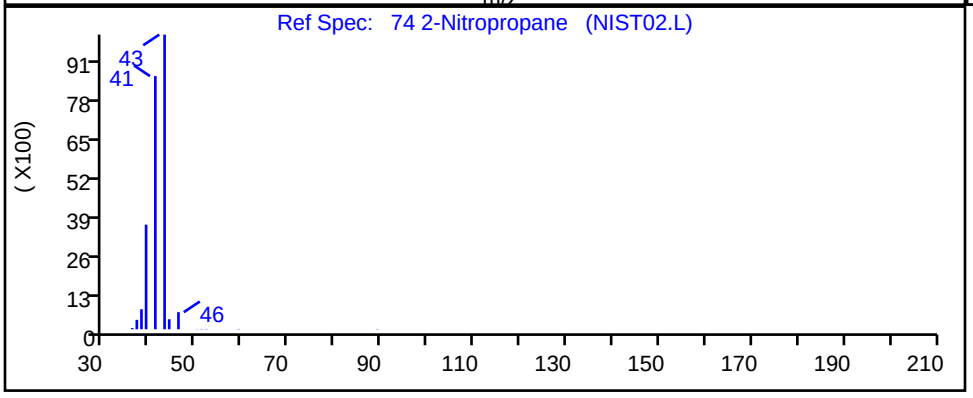
Processing Results











RT	Mass	Response	Amount
6.18	41.00	930	1.181366
6.18	43.00	930	

Reviewer: delpolitov, 28-Jun-2018 14:12:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

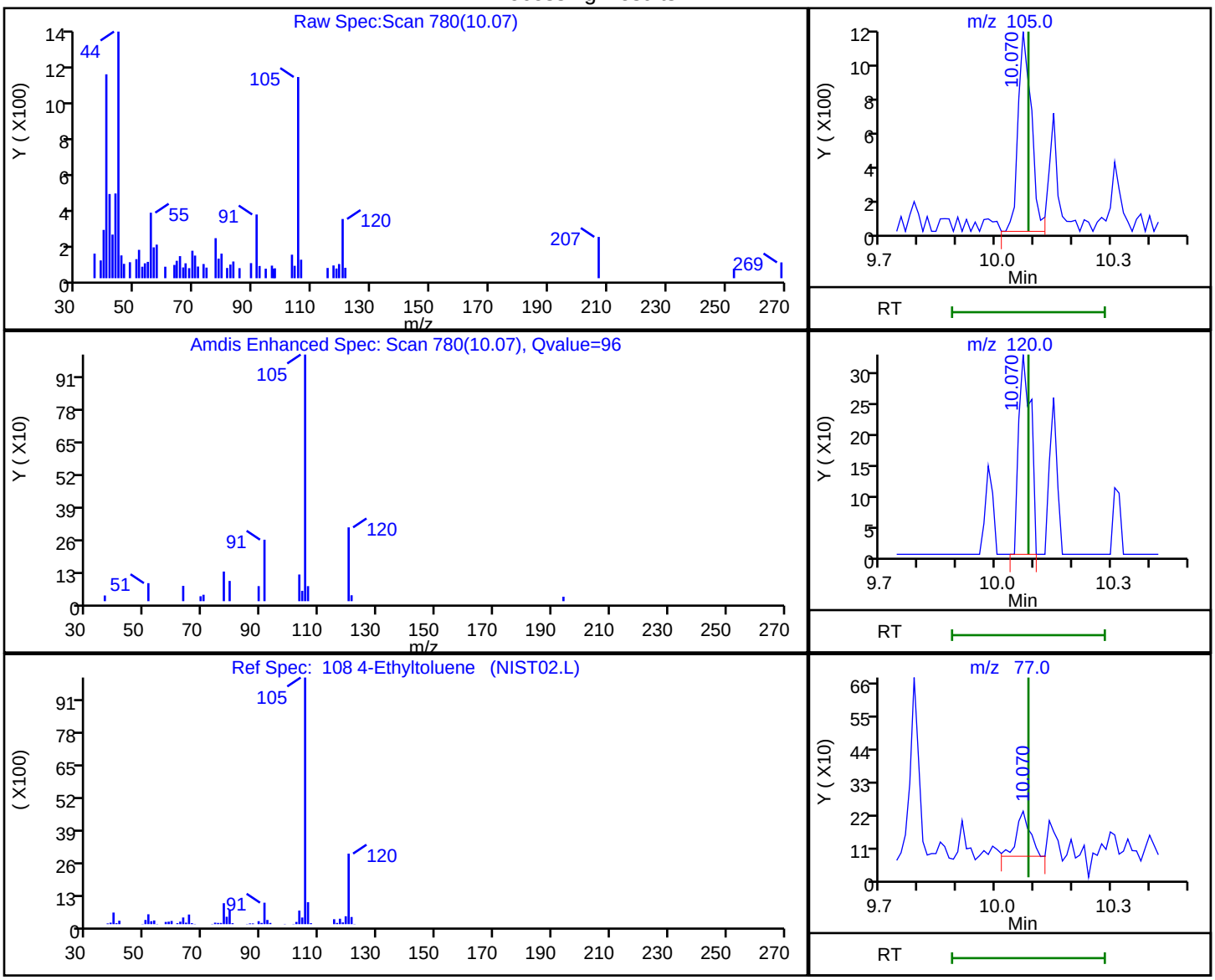
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

108 4-Ethyltoluene, CAS: 622-96-8

Processing Results



RT	Mass	Response	Amount
10.07	105.00	2695	0.265389
10.07	120.00	722	
10.07	77.00	371	

Reviewer: delpolitov, 28-Jun-2018 14:12:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

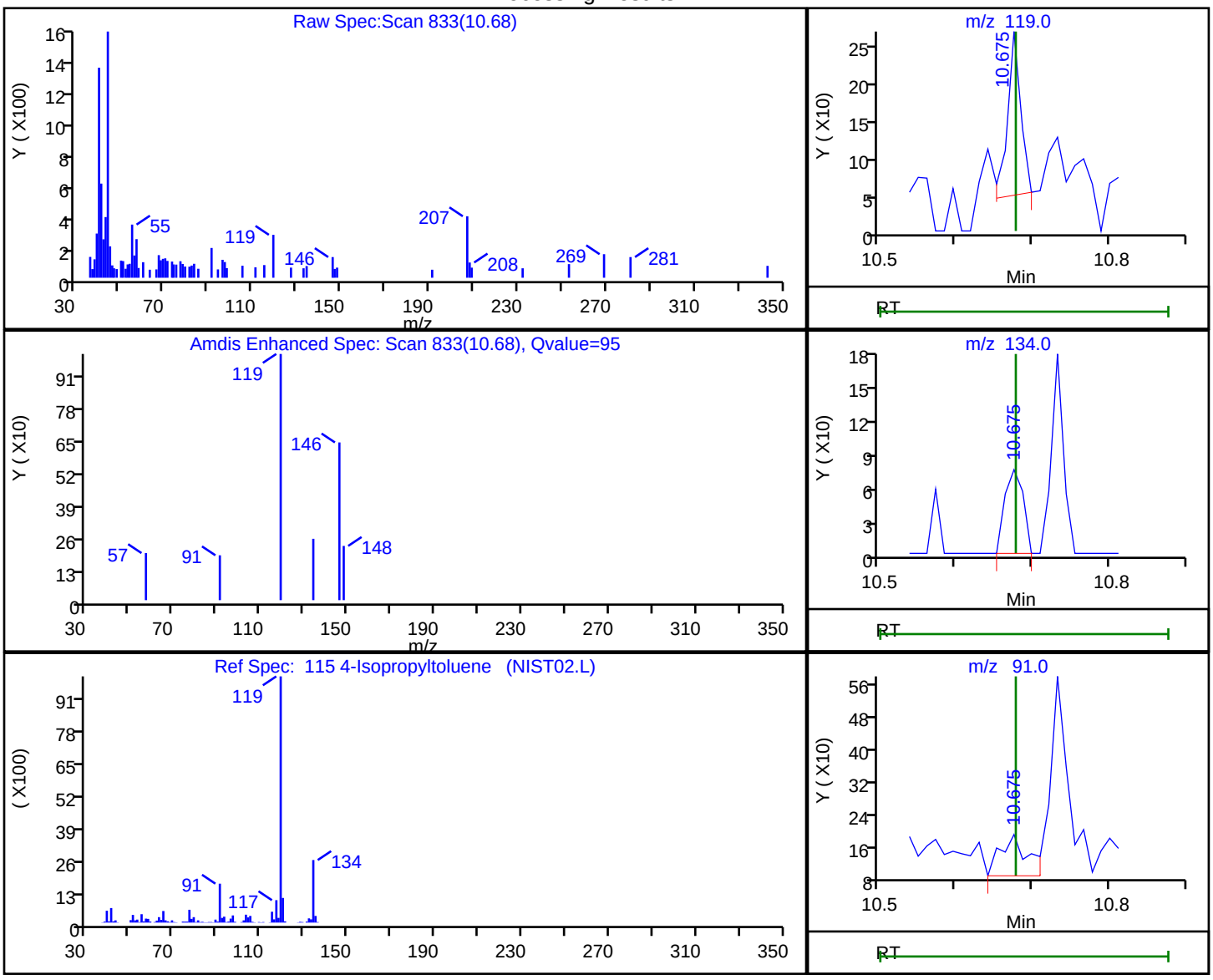
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

115 4-Isopropyltoluene, CAS: 99-87-6

Processing Results



RT	Mass	Response	Amount
10.68	119.00	265	0.034420
10.68	134.00	123	
10.68	91.00	252	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

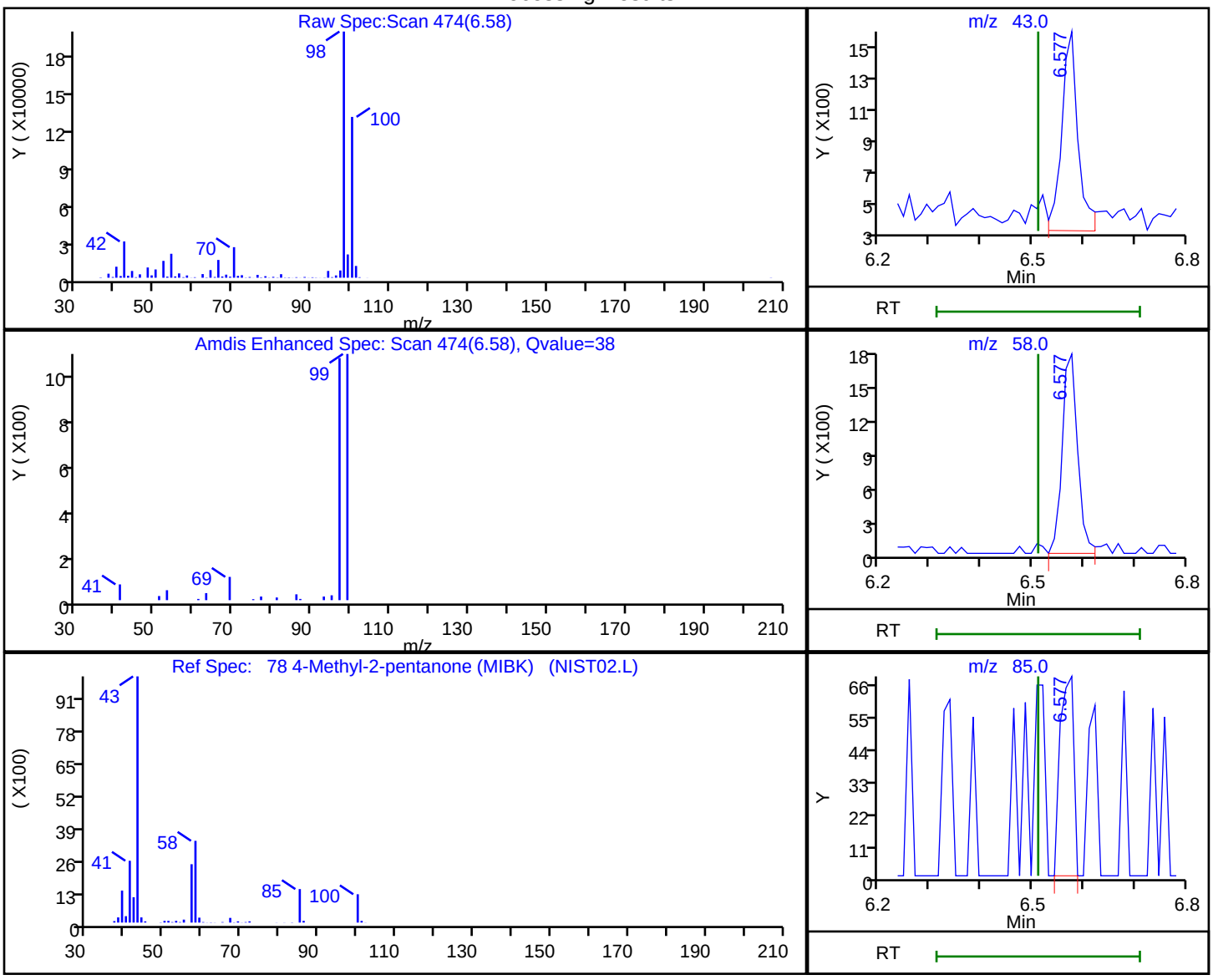
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

78 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.58	43.00	2679	1.125024
6.58	58.00	3717	
6.58	85.00	128	
6.58	100.00	244535	

Reviewer: delpolitov, 28-Jun-2018 14:12:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

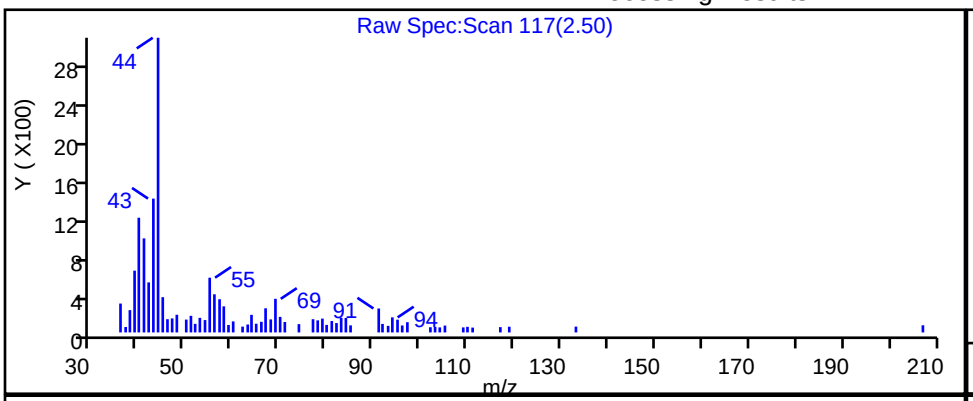
User Disabled Compound Report

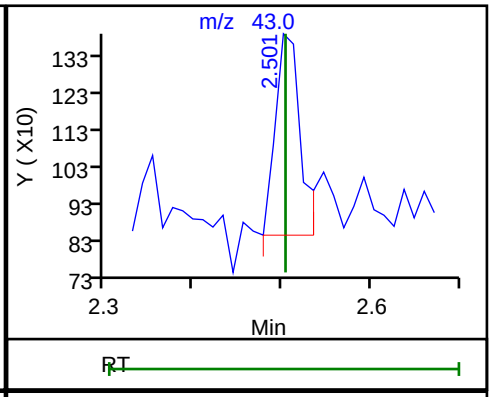
TestAmerica Edison

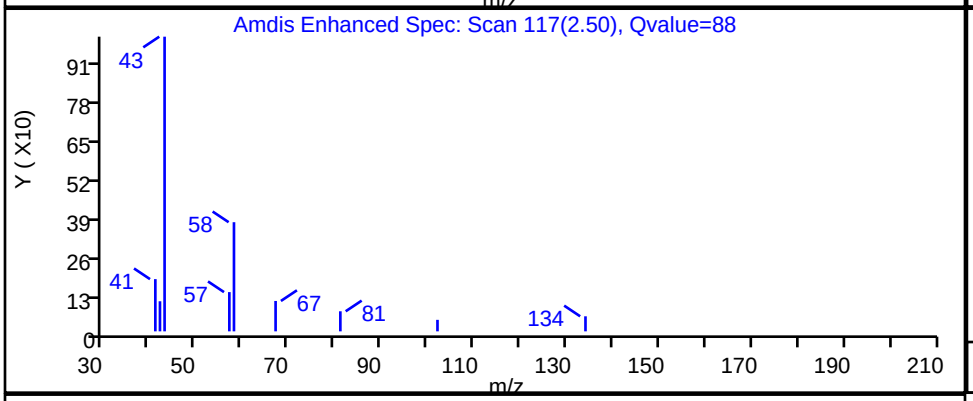
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

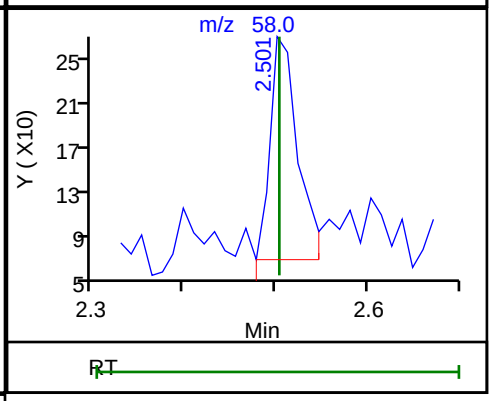
18 Acetone, CAS: 67-64-1

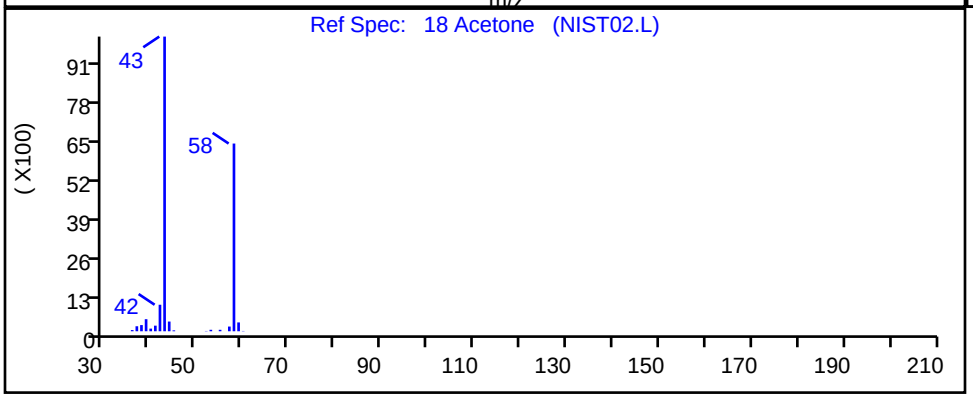
Processing Results











RT	Mass	Response	Amount
2.50	43.00	1077	1.362130
2.50	58.00	418	

Reviewer: delpolitov, 28-Jun-2018 14:11:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

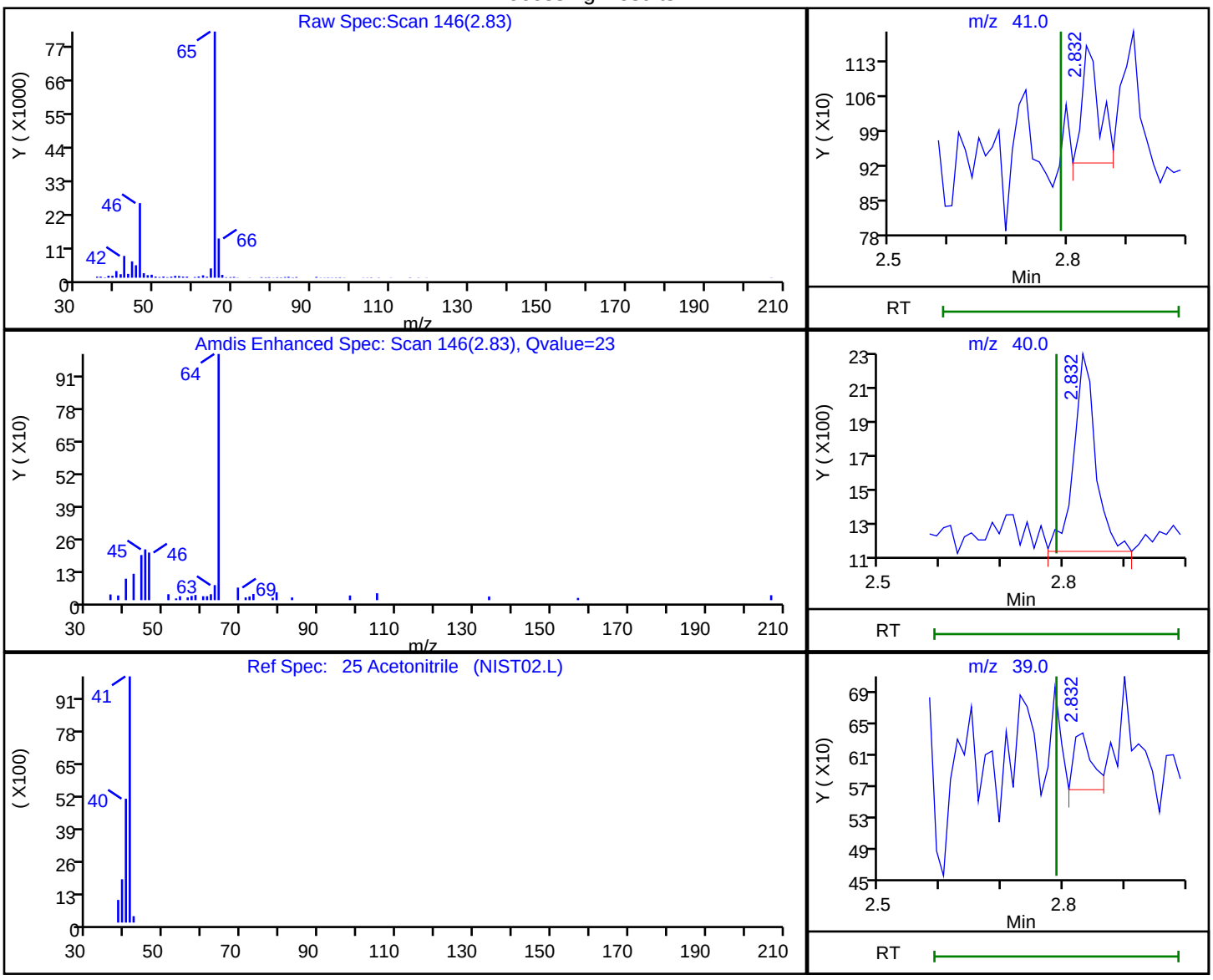
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

25 Acetonitrile, CAS: 75-05-8

Processing Results



RT	Mass	Response	Amount
2.83	41.00	477	1.184392
2.83	40.00	2715	
2.83	39.00	153	
2.83	38.00	1221	

Reviewer: delpolitov, 28-Jun-2018 14:11:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

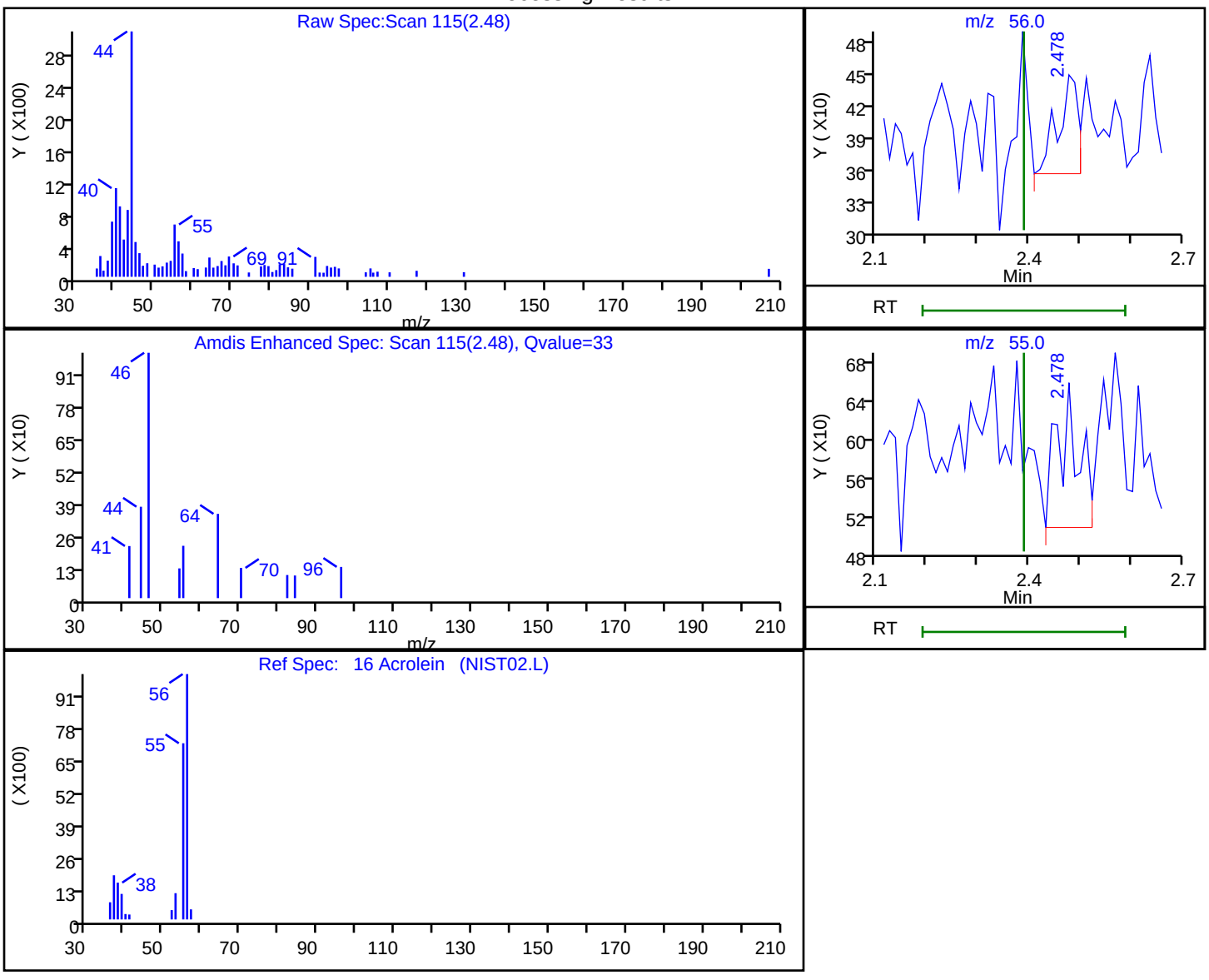
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.48	56.00	251	0.584587
2.48	55.00	427	

Reviewer: delpolitov, 28-Jun-2018 14:11:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

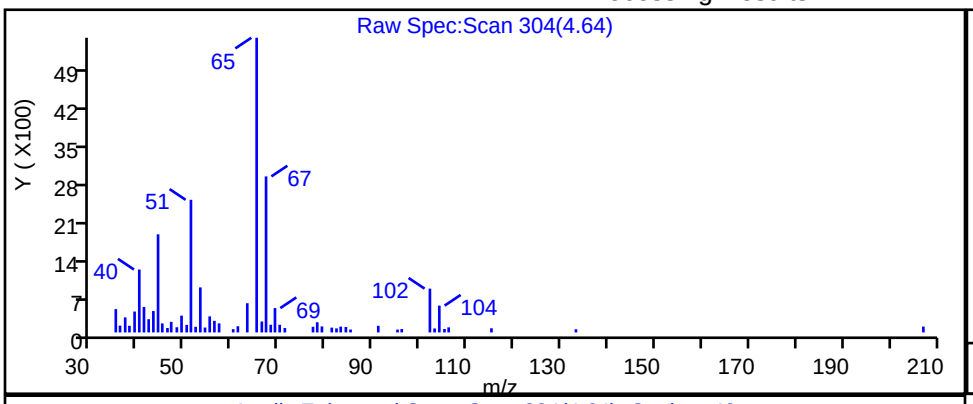
User Disabled Compound Report

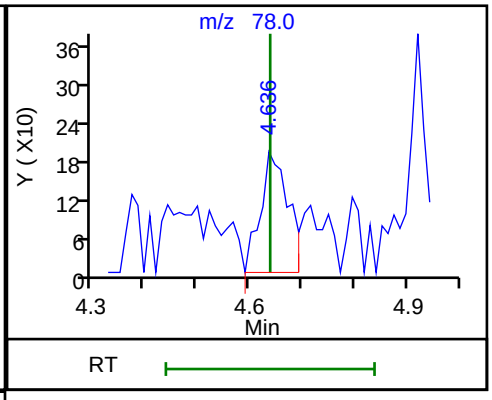
TestAmerica Edison

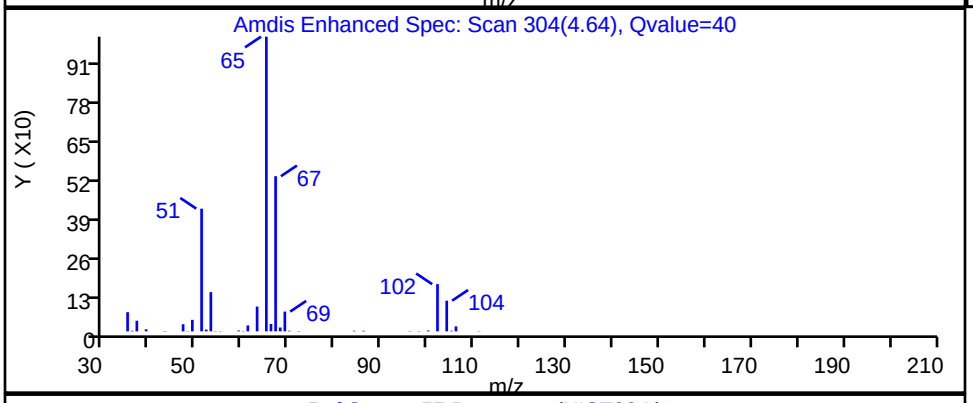
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

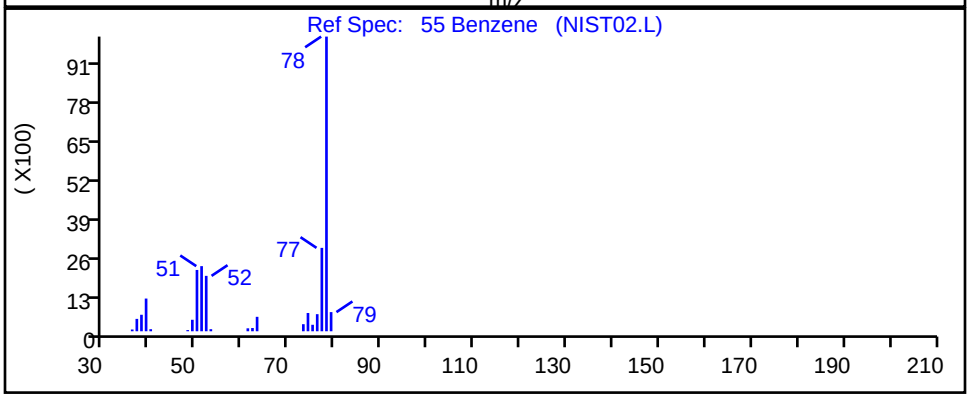
55 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
4.64	78.00	701	0.070092

Reviewer: delpolitov, 28-Jun-2018 14:12:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

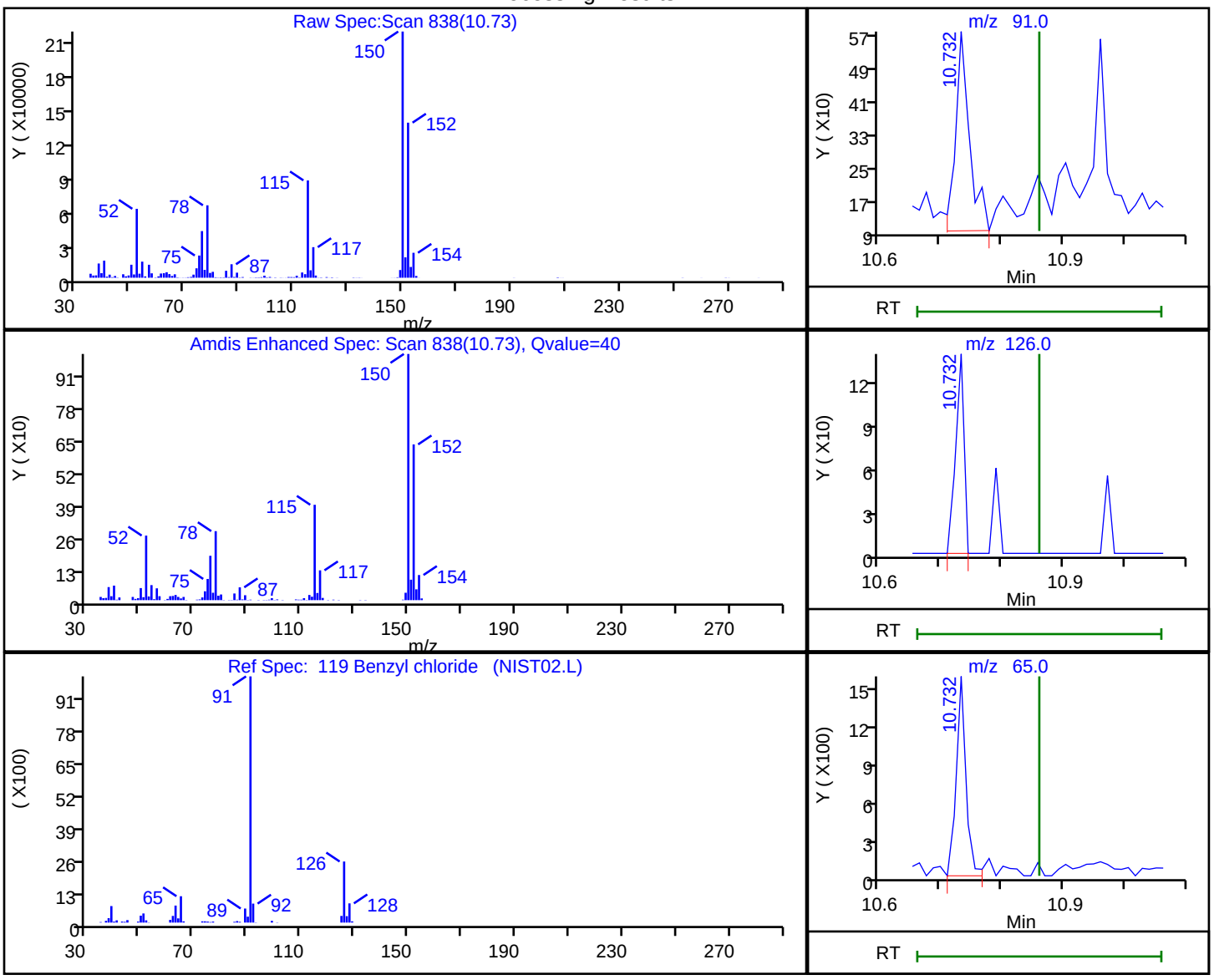
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

119 Benzyl chloride, CAS: 100-44-7

Processing Results



RT	Mass	Response	Amount
10.73	91.00	763	0.137246
10.73	126.00	125	
10.73	65.00	1758	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

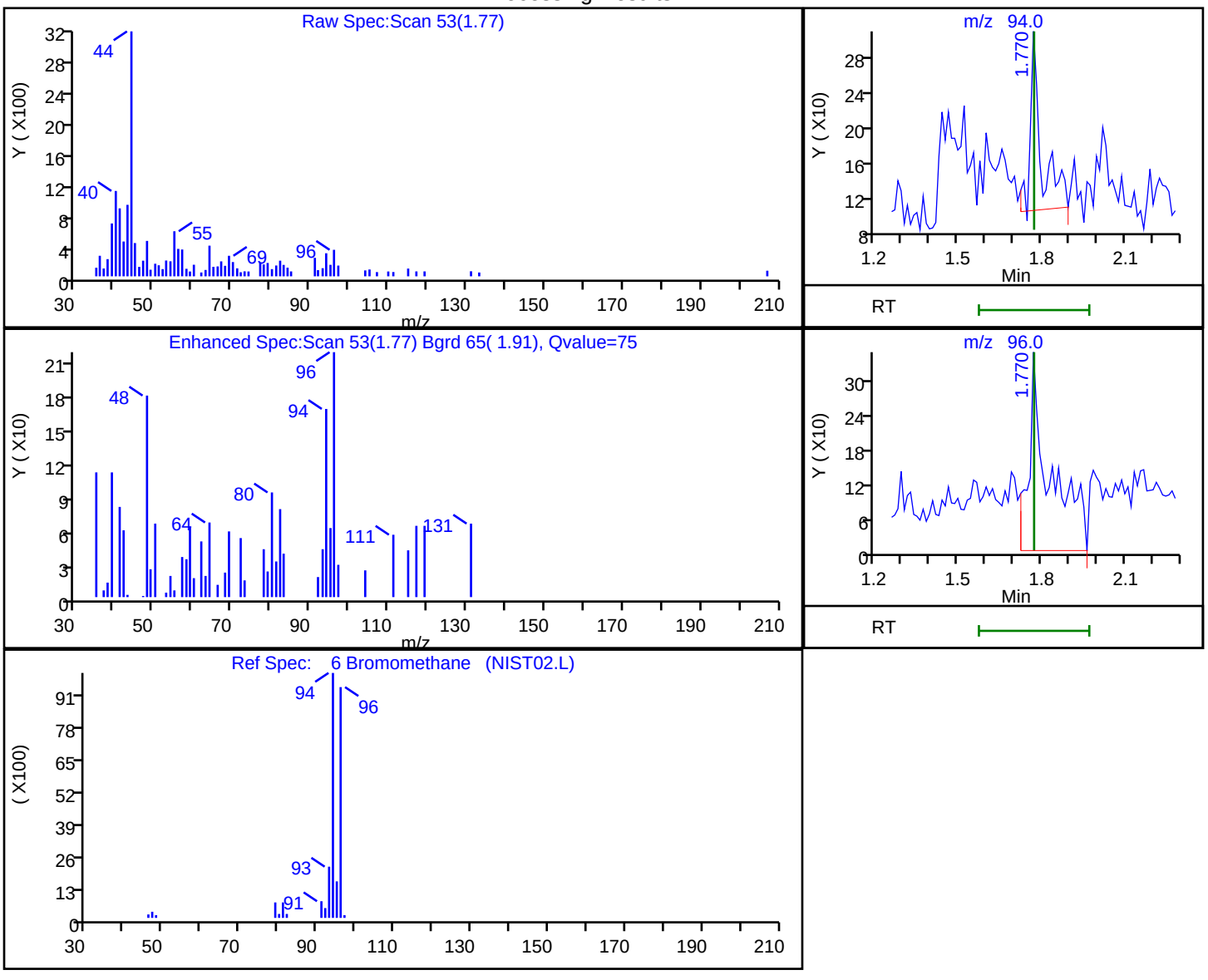
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
1.77	94.00	547	0.387187
1.77	96.00	1844	

Reviewer: delpolitov, 28-Jun-2018 14:11:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

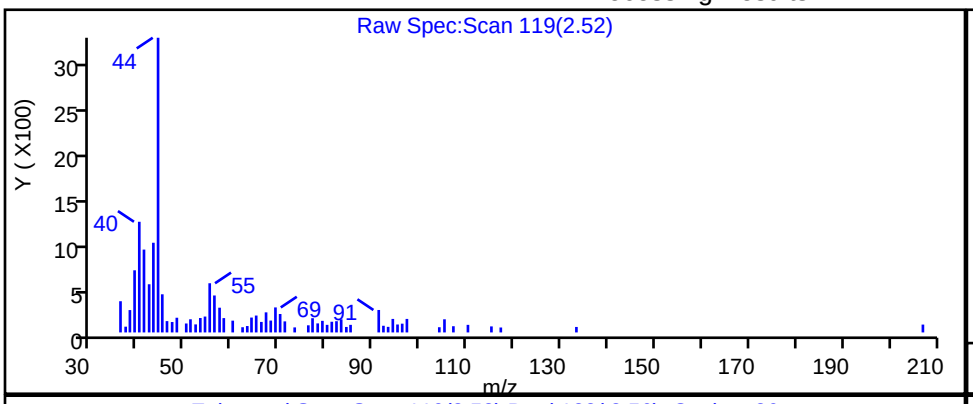
User Disabled Compound Report

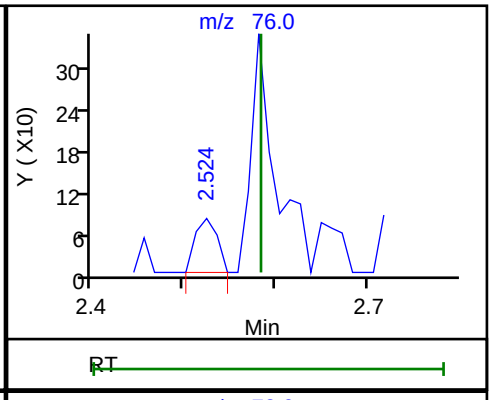
TestAmerica Edison

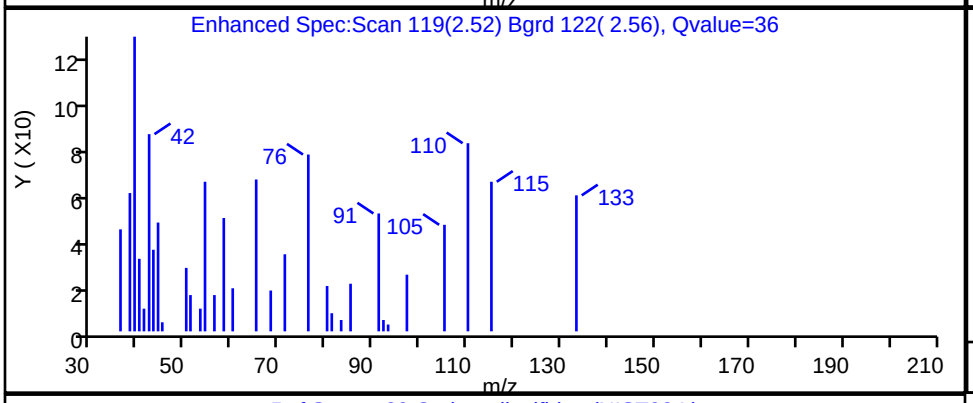
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

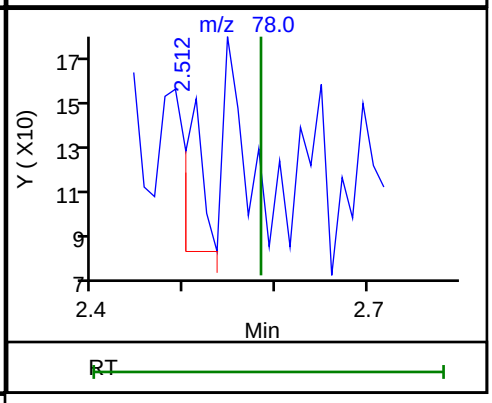
20 Carbon disulfide, CAS: 75-15-0

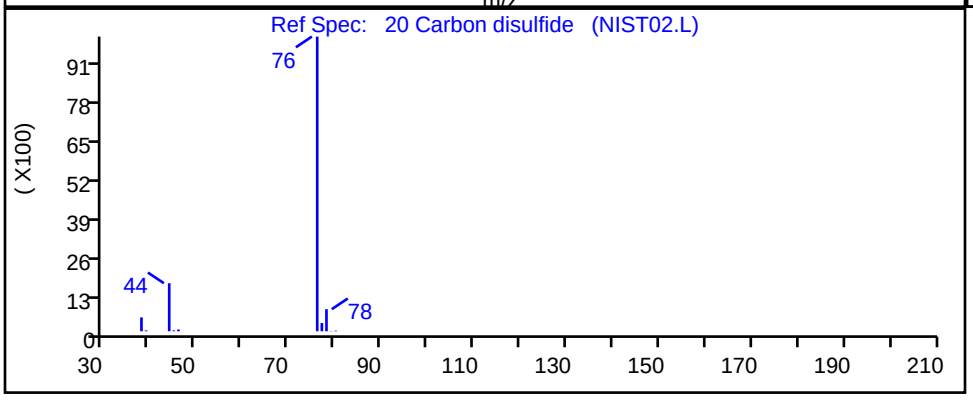
Processing Results











RT	Mass	Response	Amount
2.52	76.00	131	0.018081
2.51	78.00	84	

Reviewer: delpolitov, 28-Jun-2018 14:11:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

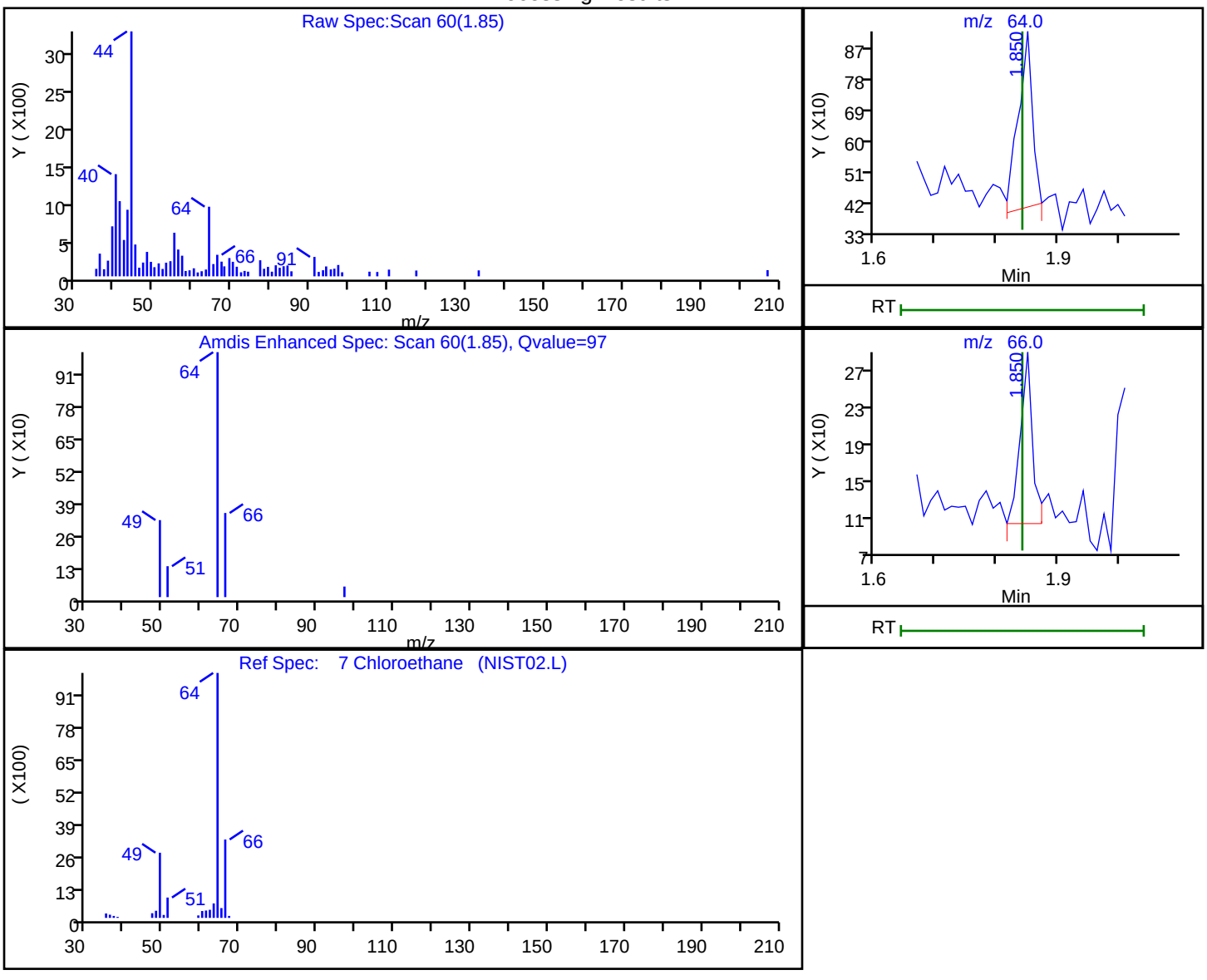
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.85	64.00	840	0.495104
1.85	66.00	250	

Reviewer: delpolitov, 28-Jun-2018 14:11:06
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

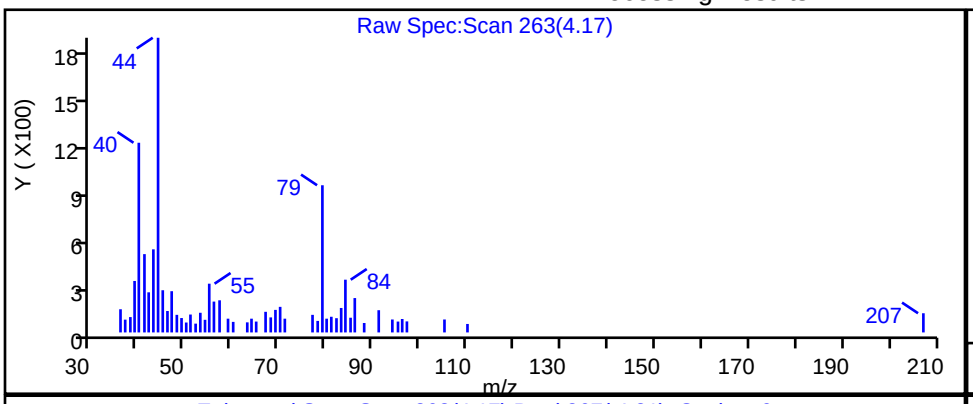
User Disabled Compound Report

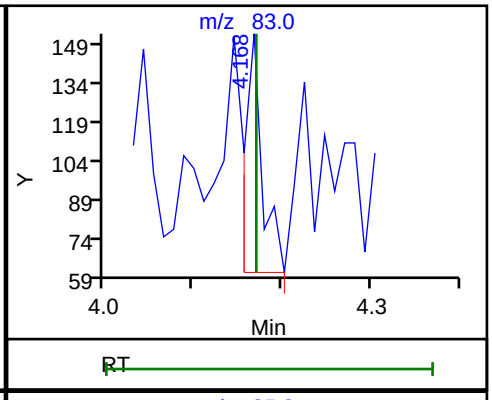
TestAmerica Edison

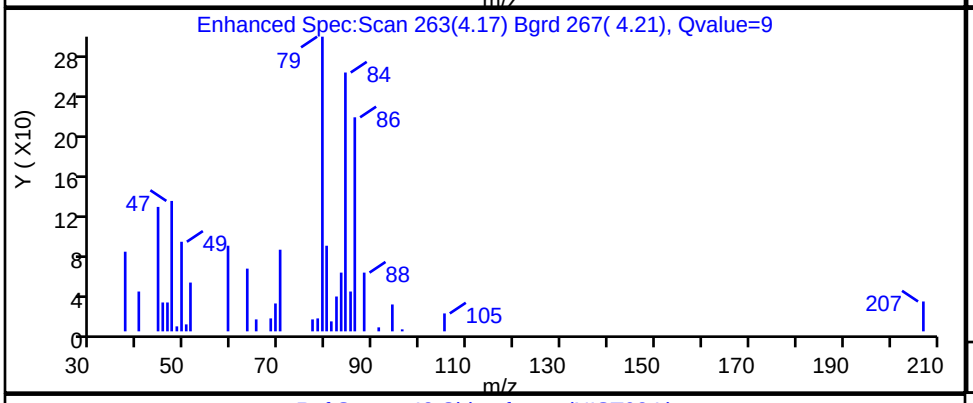
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

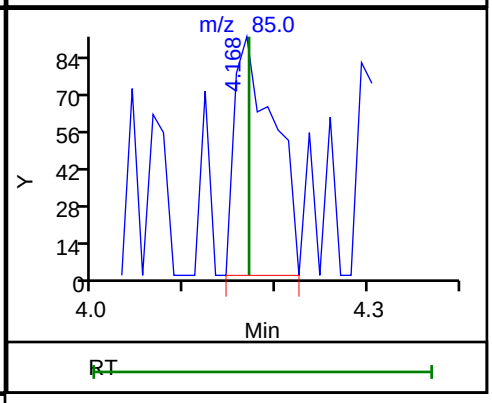
48 Chloroform, CAS: 67-66-3

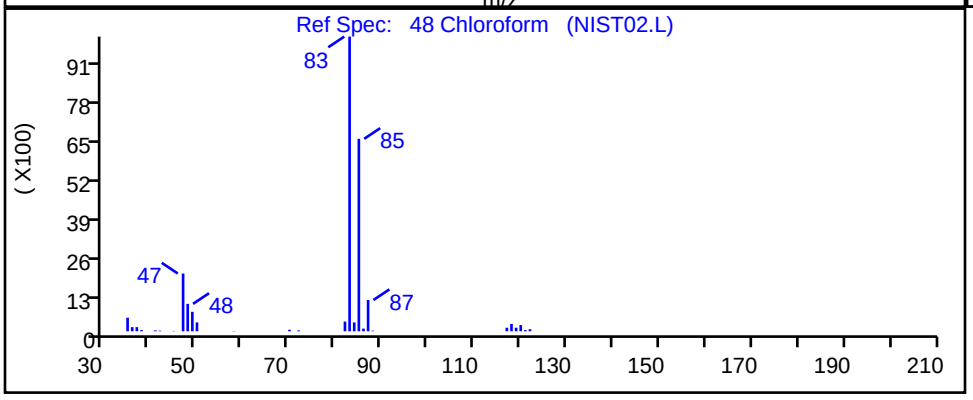
Processing Results











RT	Mass	Response	Amount
4.17	83.00	126	0.029449
4.17	85.00	278	

Reviewer: delpolitov, 28-Jun-2018 14:12:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

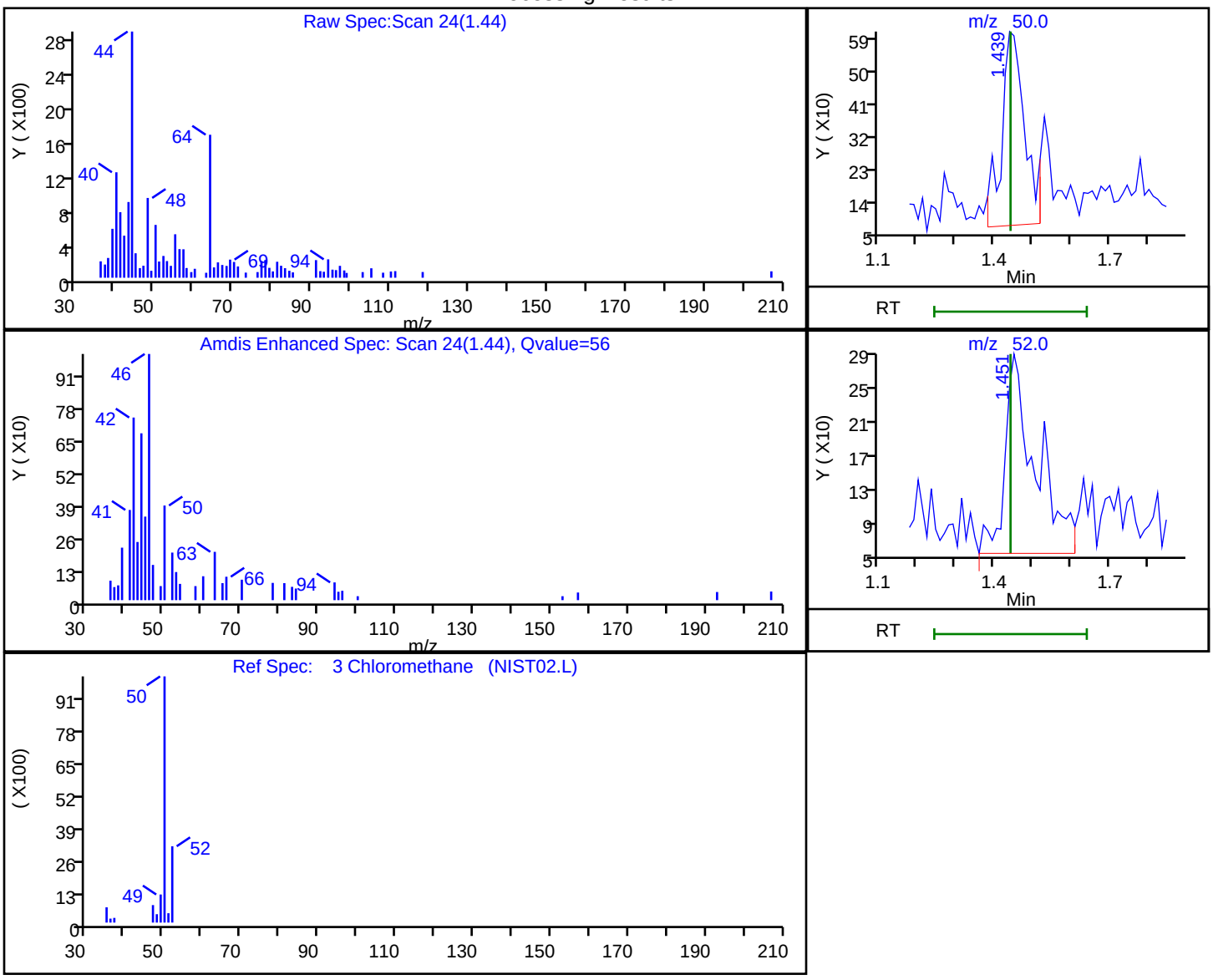
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.44	50.00	2319	0.612376
1.45	52.00	1295	

Reviewer: delpolitov, 28-Jun-2018 14:10:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

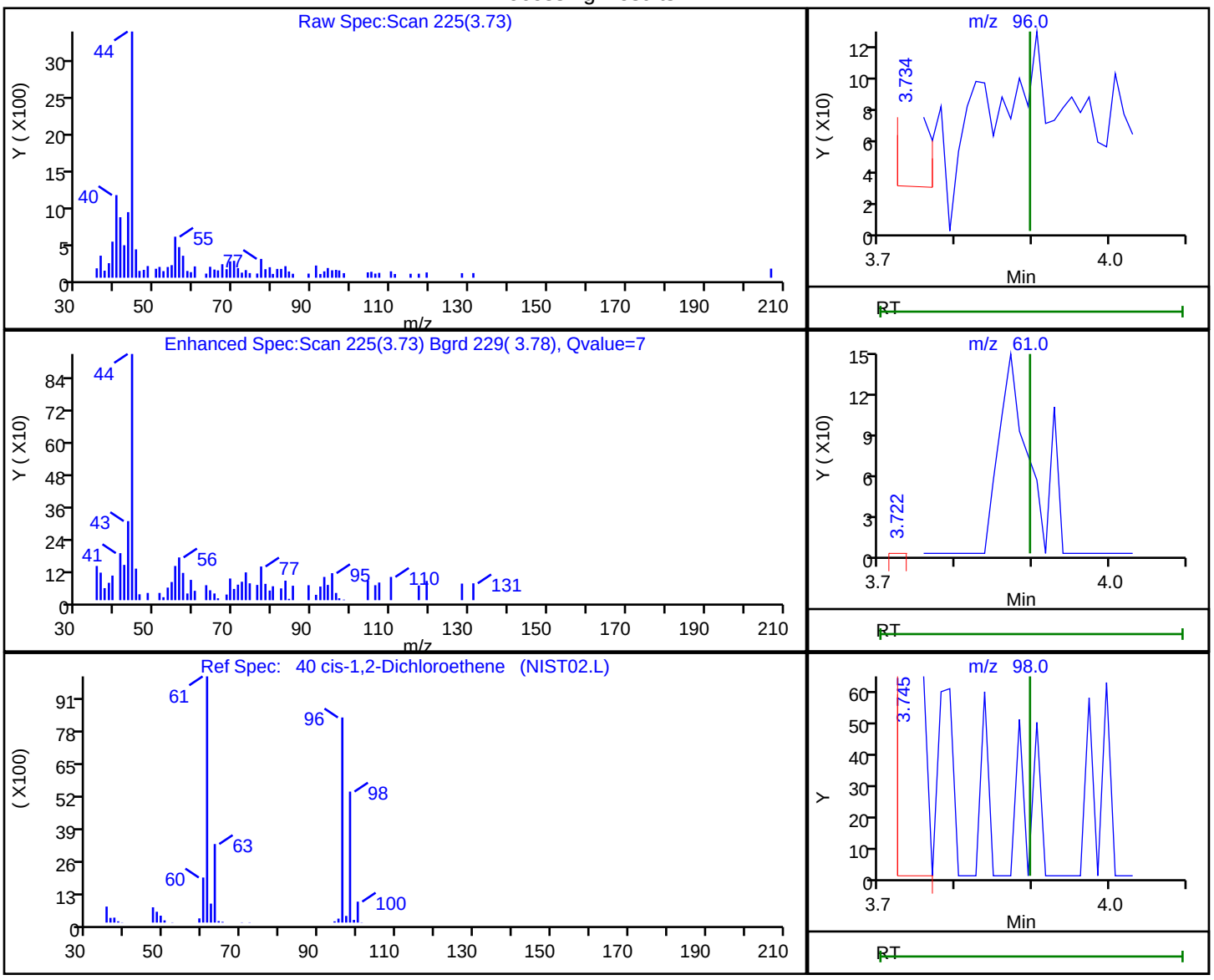
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

40 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
3.73	96.00	193	0.074863
3.72	61.00	34	
3.75	98.00	181	

Reviewer: delpolitov, 28-Jun-2018 14:12:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

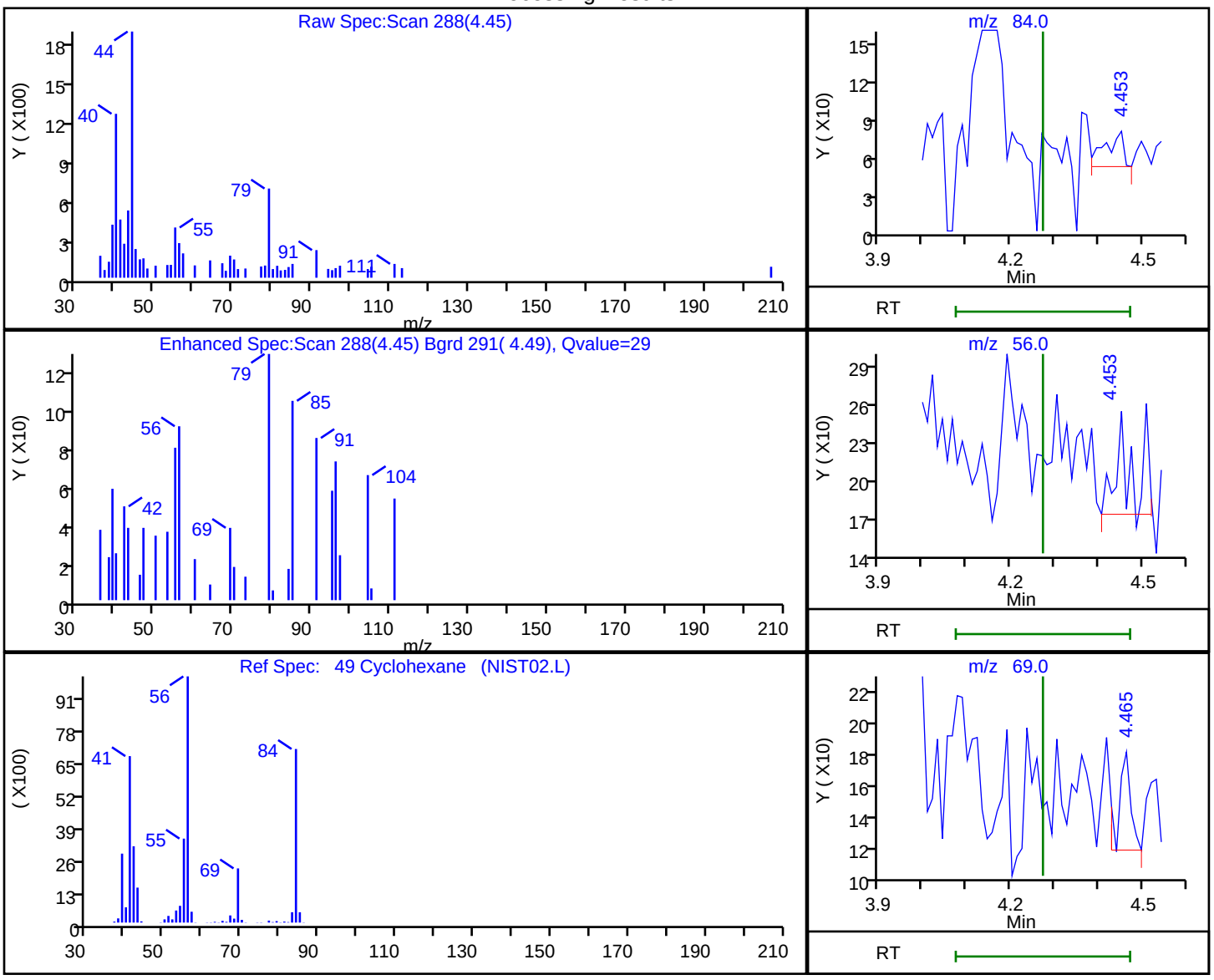
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.45	84.00	81	0.026571
4.45	56.00	208	
4.46	69.00	113	

Reviewer: delpolitov, 28-Jun-2018 14:12:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

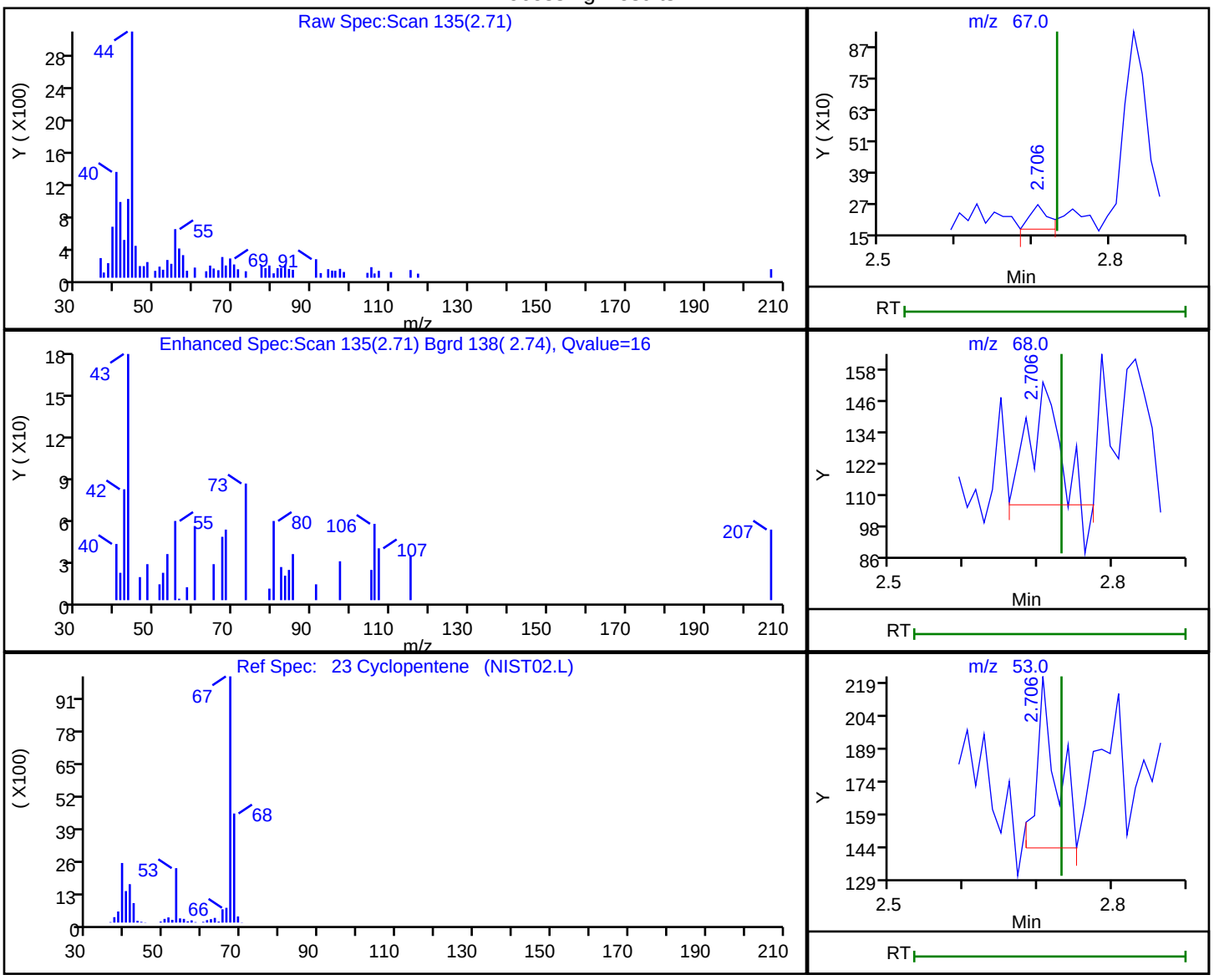
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Cyclopentene, CAS: 142-29-0

Processing Results



RT	Mass	Response	Amount
2.71	67.00	158	0.029390
2.71	68.00	123	
2.71	53.00	145	

Reviewer: delpolitov, 28-Jun-2018 14:11:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

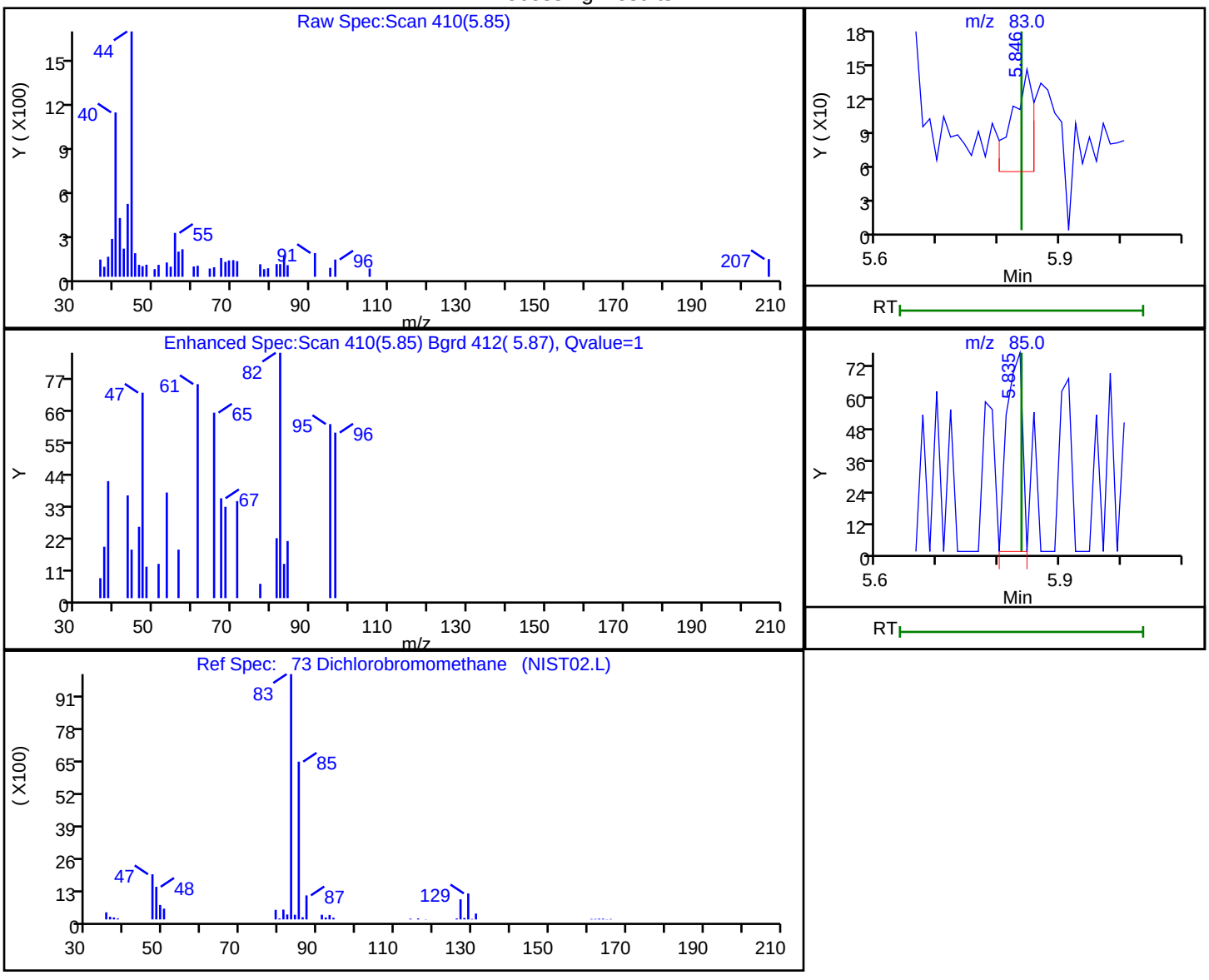
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

73 Dichlorobromomethane, CAS: 75-27-4

Processing Results



RT	Mass	Response	Amount
5.85	83.00	217	0.061069
5.83	85.00	136	

Reviewer: delpolitov, 28-Jun-2018 14:12:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

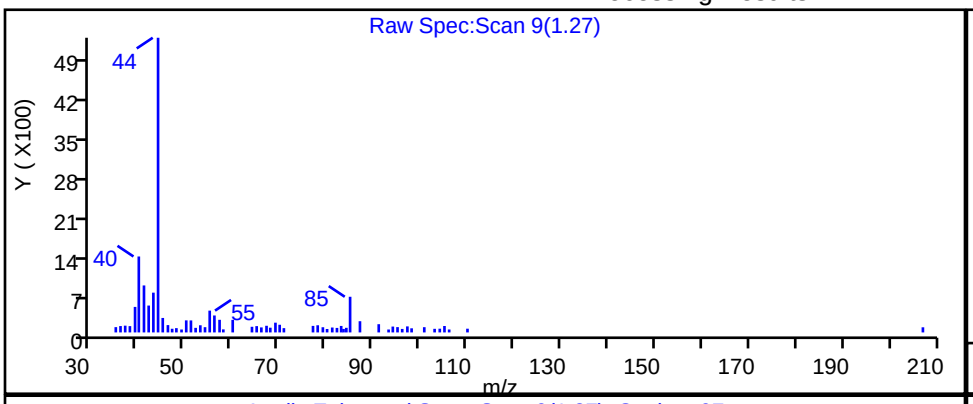
User Disabled Compound Report

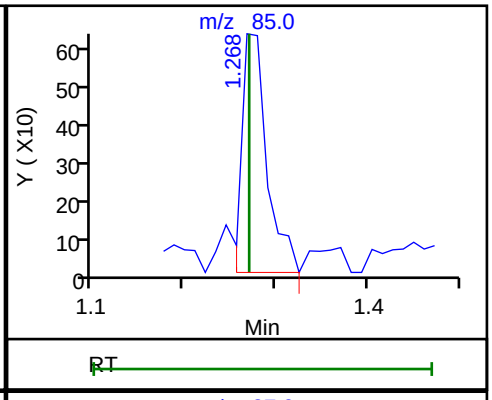
TestAmerica Edison

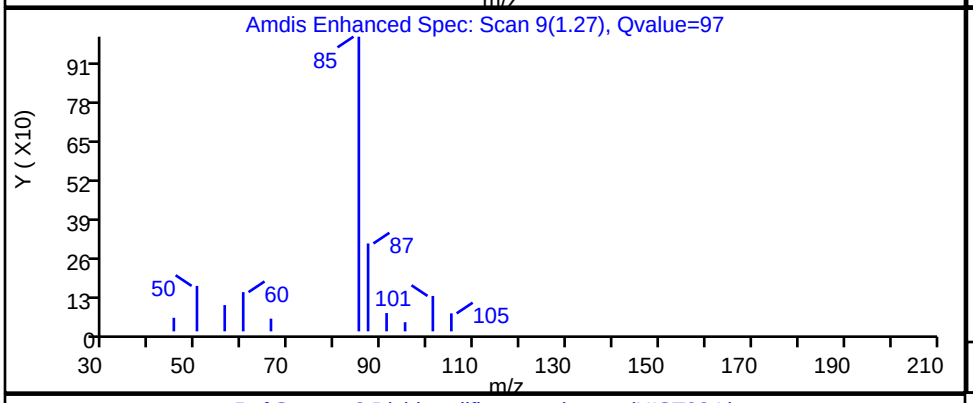
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

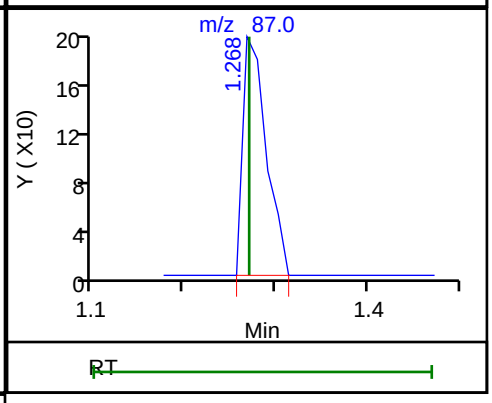
2 Dichlorodifluoromethane, CAS: 75-71-8

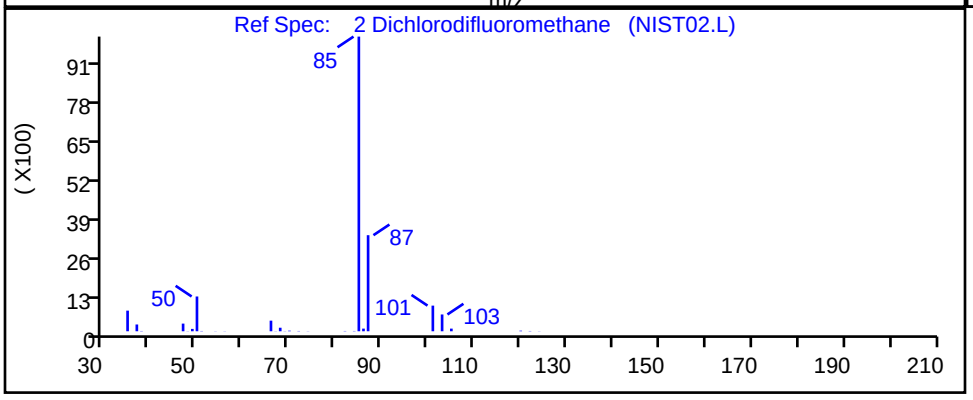
Processing Results











RT	Mass	Response	Amount
1.27	85.00	1204	0.396798
1.27	87.00	354	

Reviewer: delpolitov, 28-Jun-2018 14:10:58
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

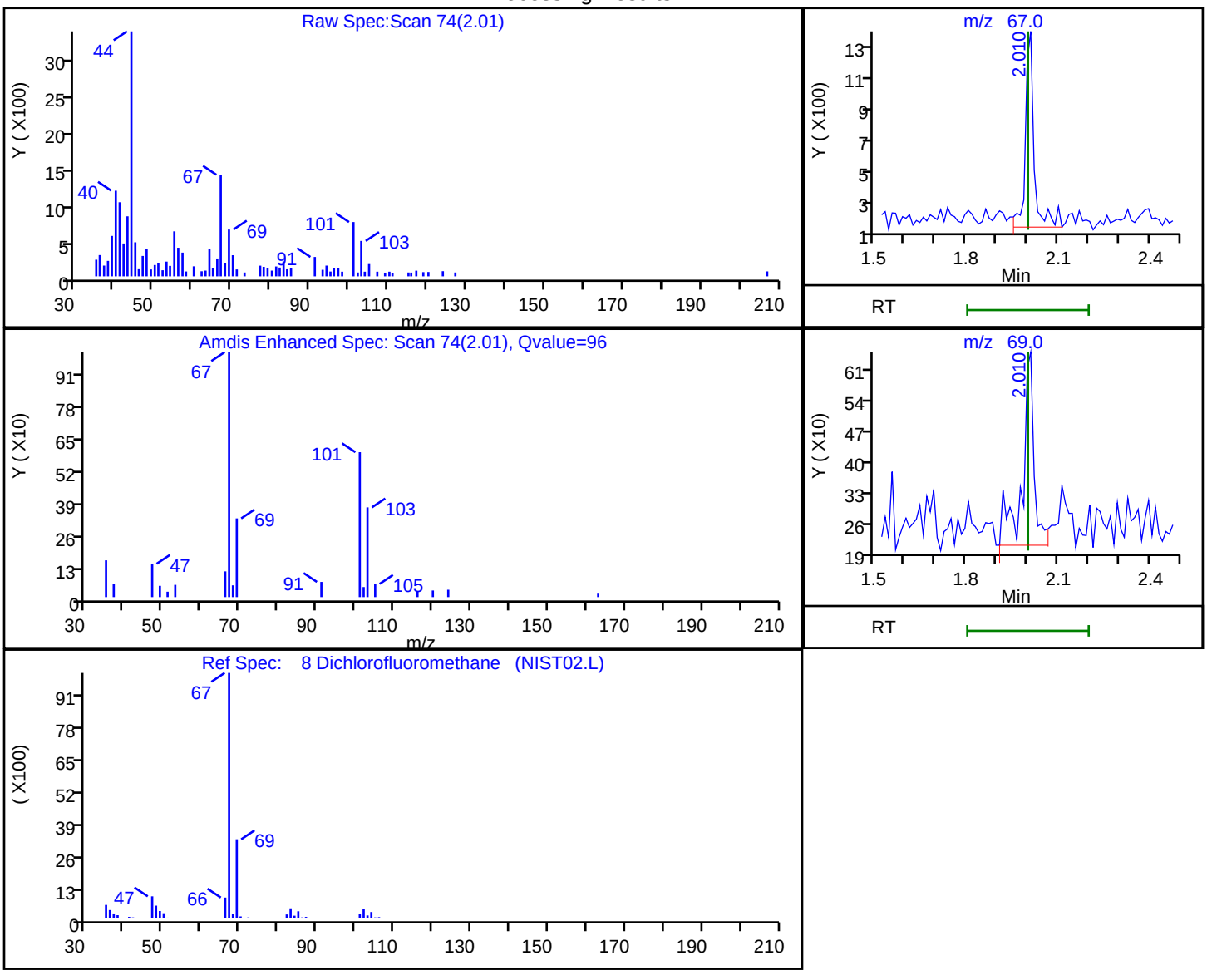
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D				
Injection Date:	26-Jun-2018 21:14:30	Instrument ID:	CVOAMS8		
Lims ID:	STD7				
Client ID:					
Operator ID:		ALS Bottle#:	2	Worklist Smp#:	3
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

8 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.01	67.00	2454	0.560630
2.01	69.00	1175	

Reviewer: delpolitov, 28-Jun-2018 14:11:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

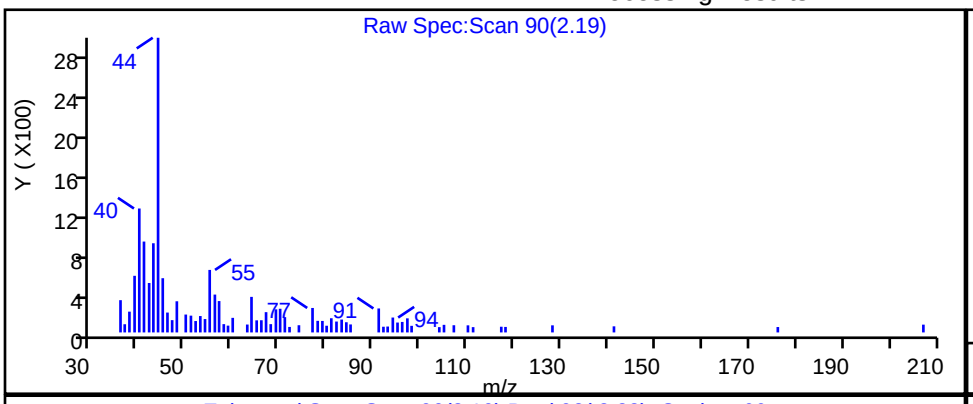
User Disabled Compound Report

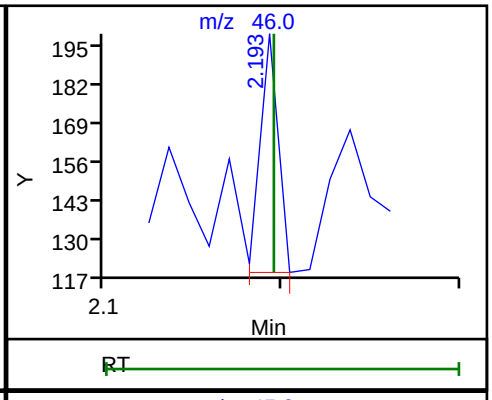
TestAmerica Edison

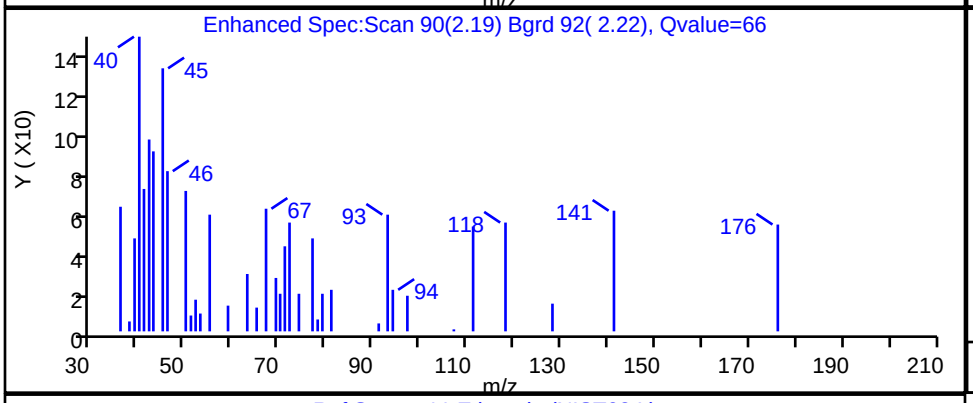
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

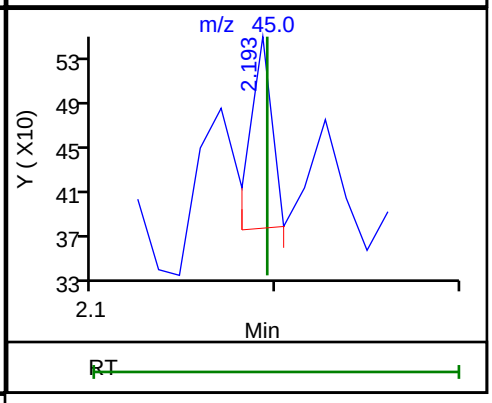
11 Ethanol, CAS: 64-17-5

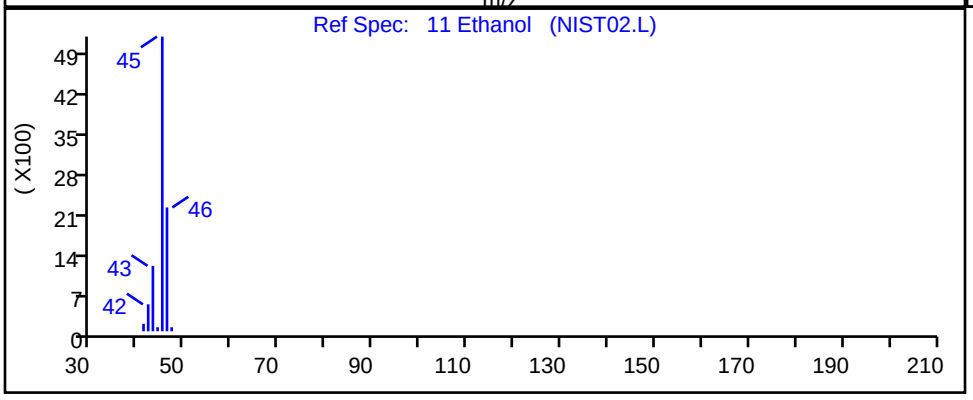
Processing Results











RT	Mass	Response	Amount
2.19	46.00	58	3.876786
2.19	45.00	141	

Reviewer: delpolitov, 28-Jun-2018 14:11:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

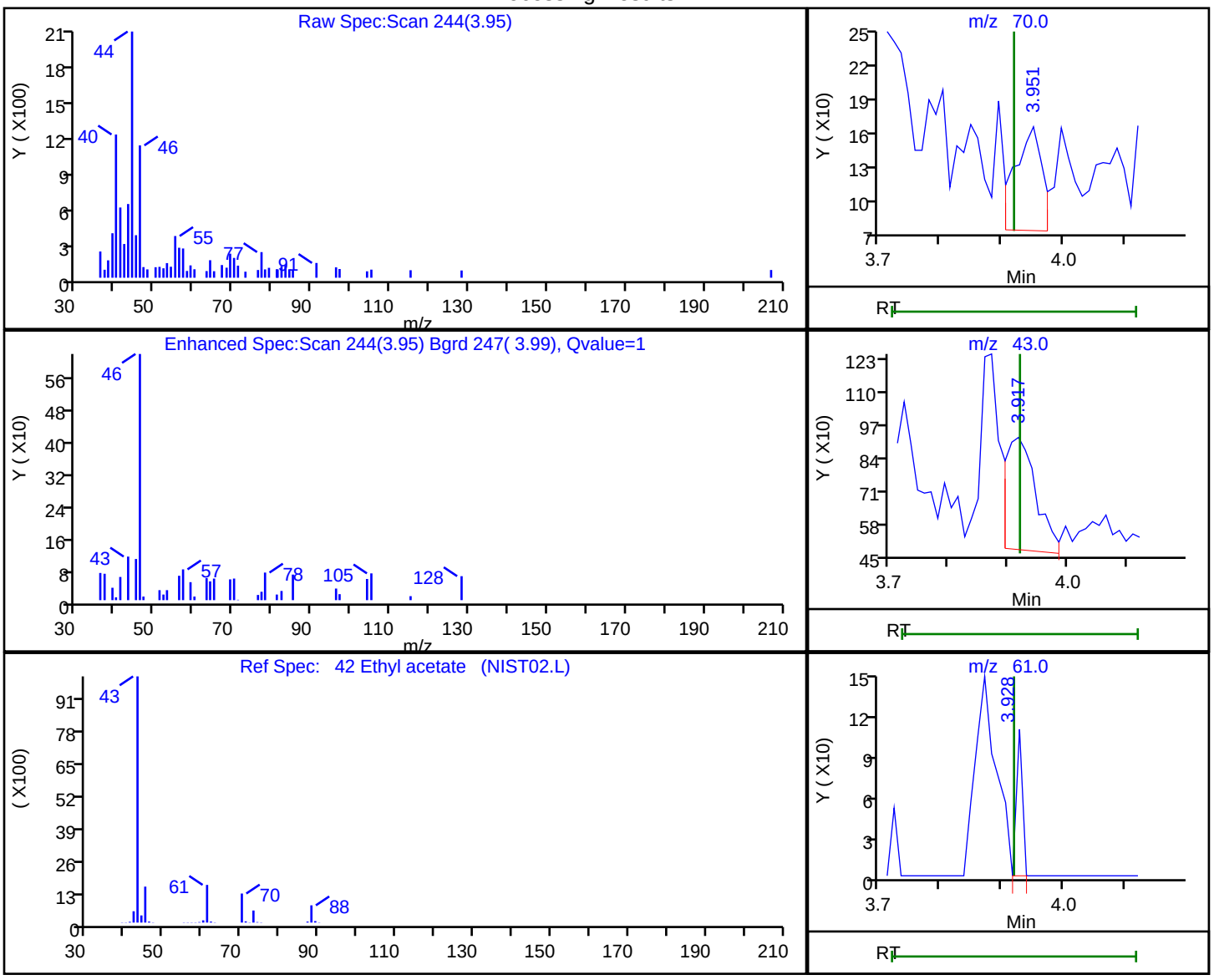
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

42 Ethyl acetate, CAS: 141-78-6

Processing Results



RT	Mass	Response	Amount
3.95	70.00	291	1.128164
3.92	43.00	1620	
3.93	61.00	74	

Reviewer: delpolitov, 28-Jun-2018 14:12:17
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

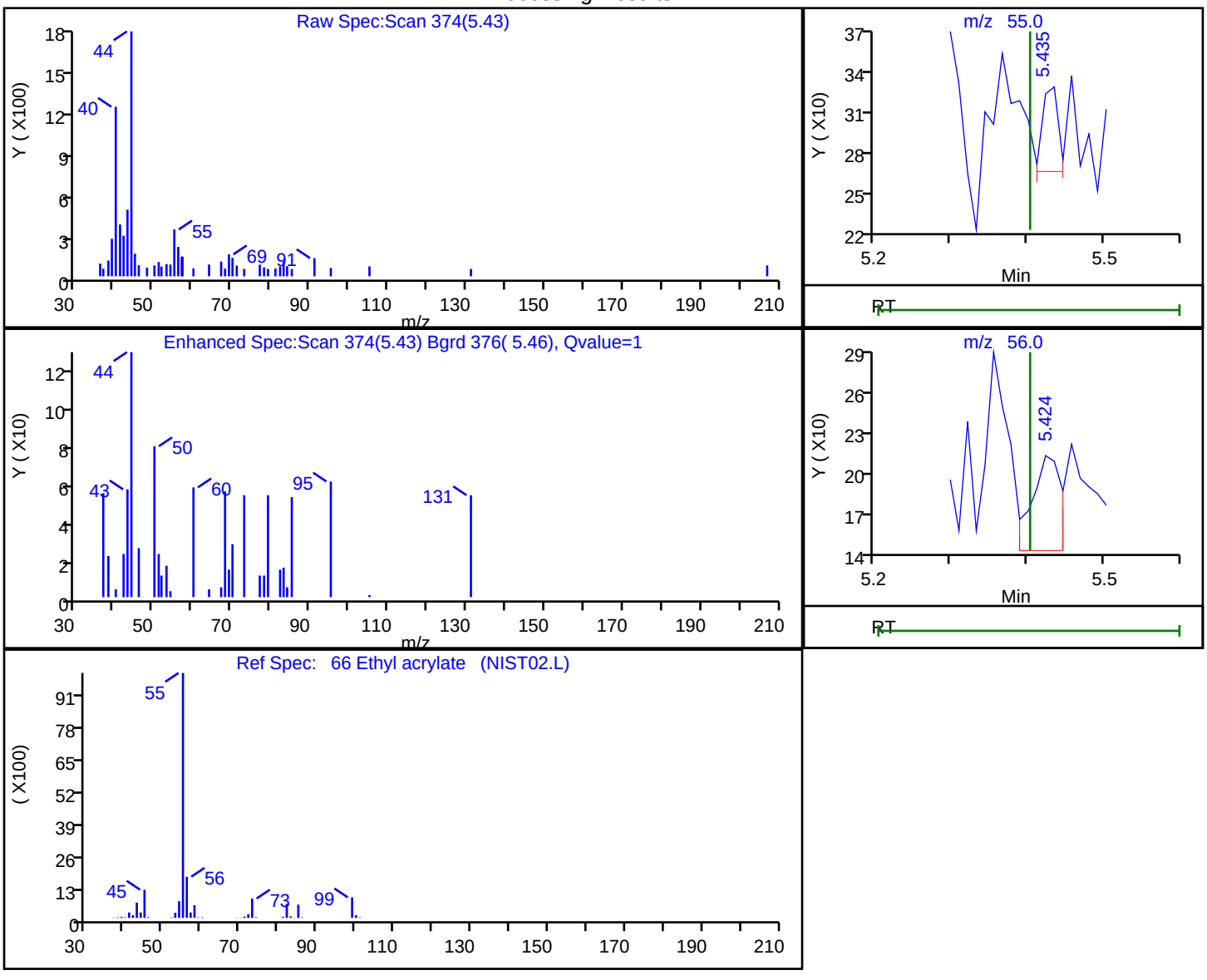
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

66 Ethyl acrylate, CAS: 140-88-5

Processing Results



RT	Mass	Response	Amount
5.43	55.00	89	0.013998
5.42	56.00	182	

Reviewer: delpolitov, 28-Jun-2018 14:12:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

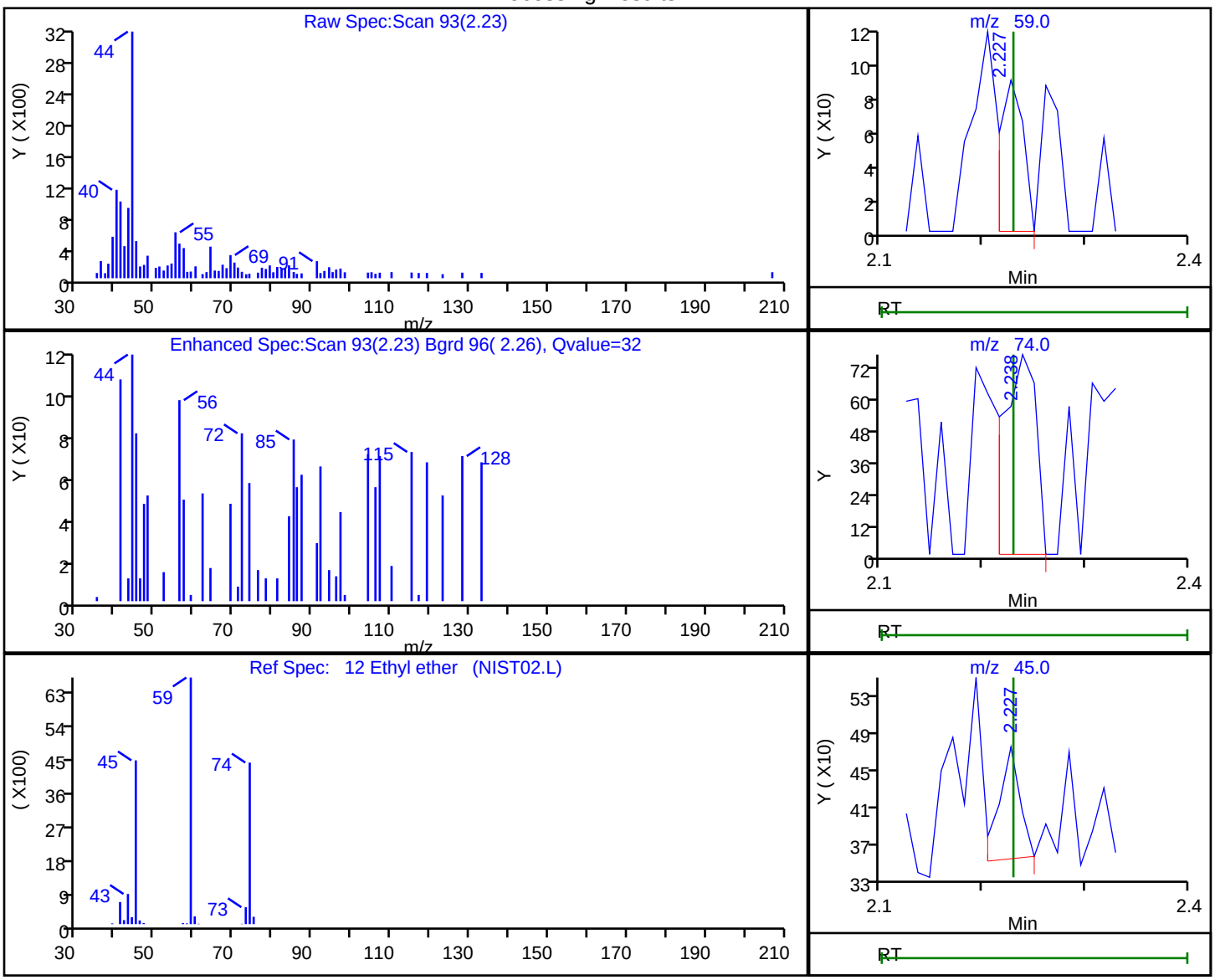
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethyl ether, CAS: 60-29-7

Processing Results



RT	Mass	Response	Amount
2.23	59.00	137	0.071079
2.24	74.00	173	
2.23	45.00	171	

Reviewer: delpolitov, 28-Jun-2018 14:11:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

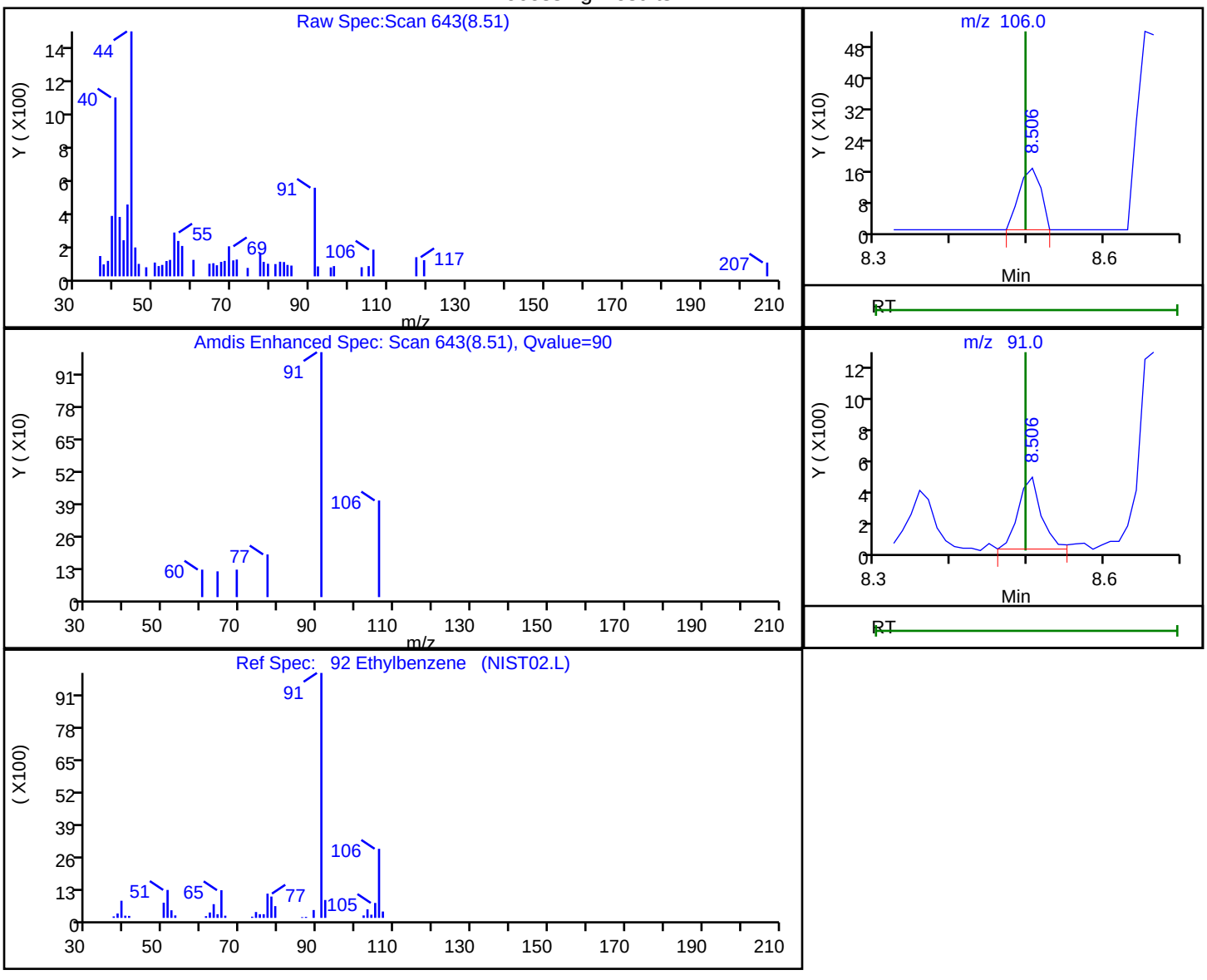
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
8.51	106.00	316	0.093694
8.51	91.00	917	

Reviewer: delpolitov, 28-Jun-2018 14:12:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

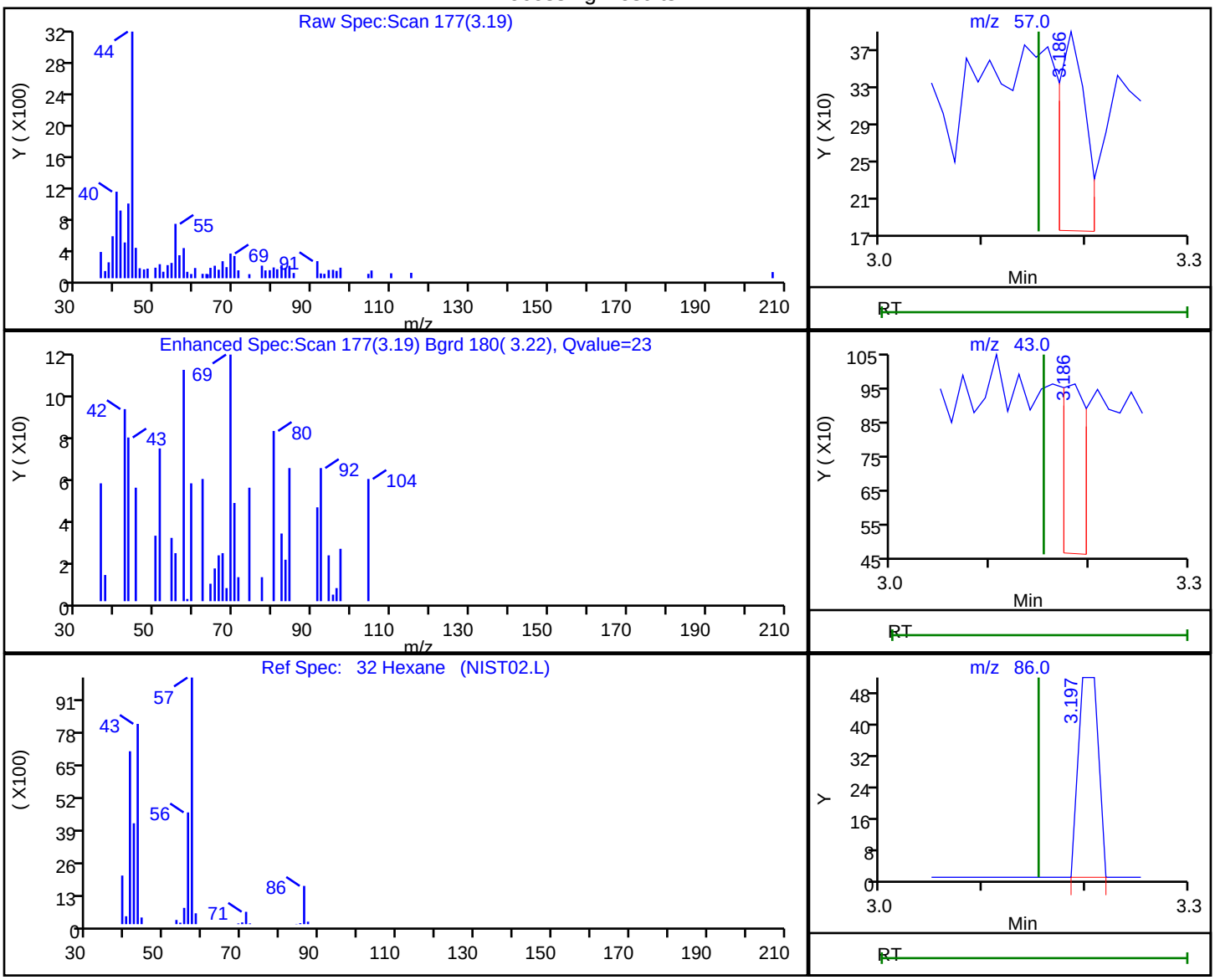
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
3.19	57.00	391	0.145125
3.19	43.00	974	
3.20	86.00	71	
3.17	56.00	413	

Reviewer: delpolitov, 28-Jun-2018 14:11:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

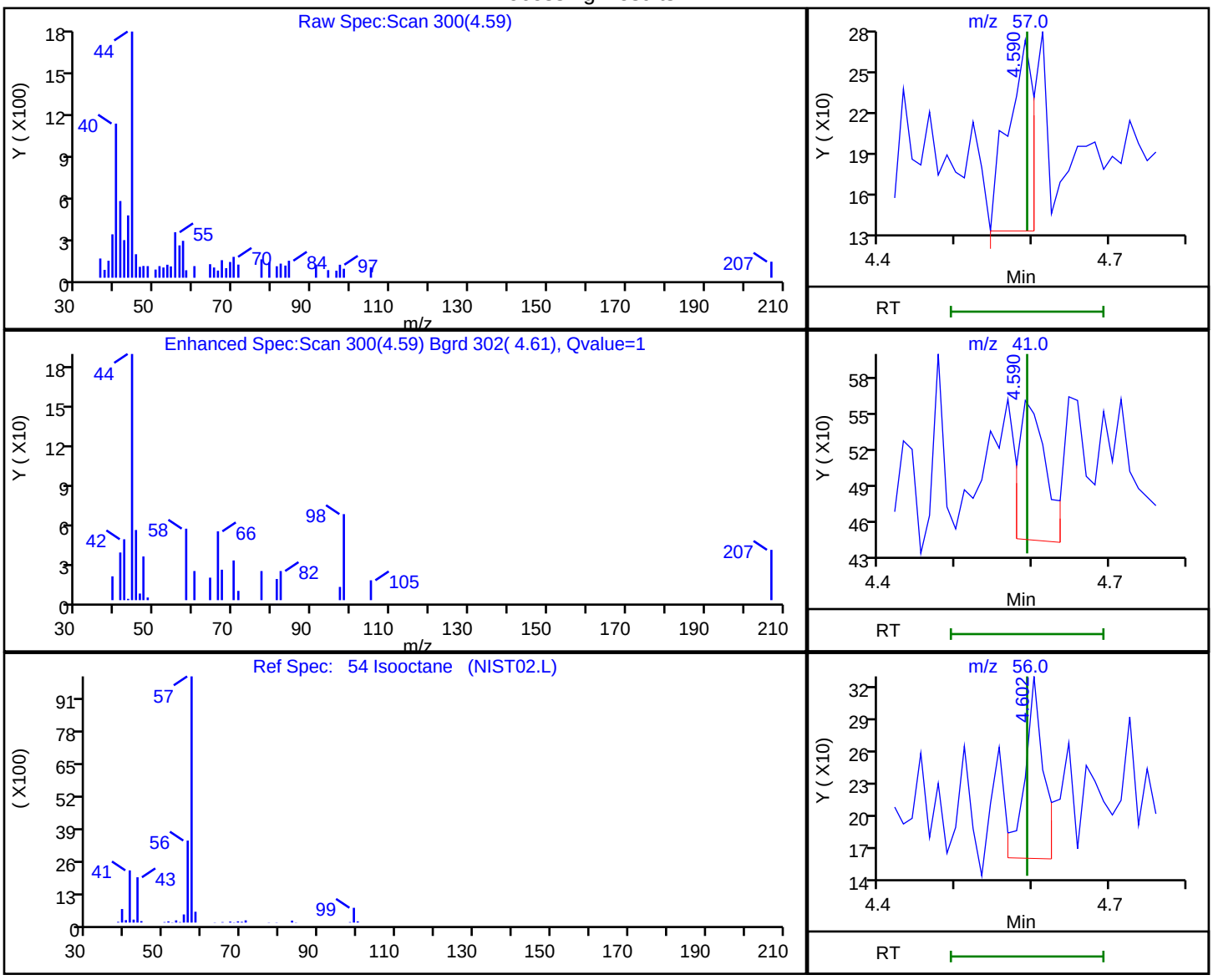
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

54 Isooctane, CAS: 540-84-1

Processing Results



RT	Mass	Response	Amount
4.59	57.00	312	0.058202
4.59	41.00	290	
4.60	56.00	279	

Reviewer: delpolitov, 28-Jun-2018 14:12:20
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

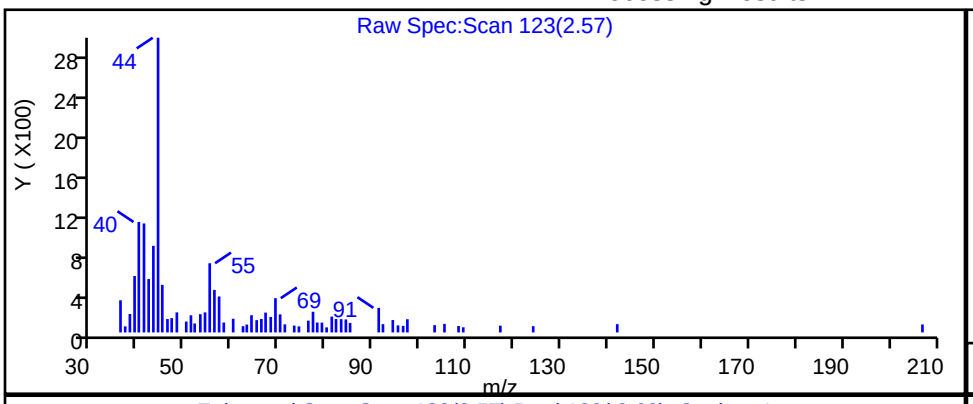
User Disabled Compound Report

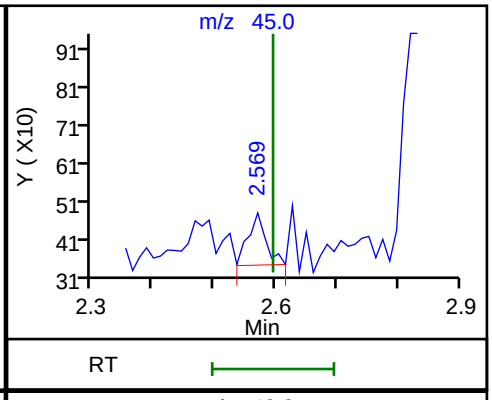
TestAmerica Edison

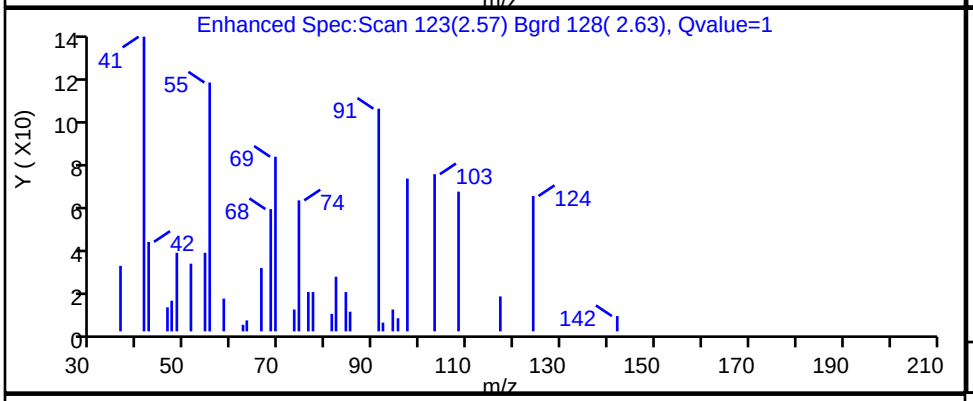
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

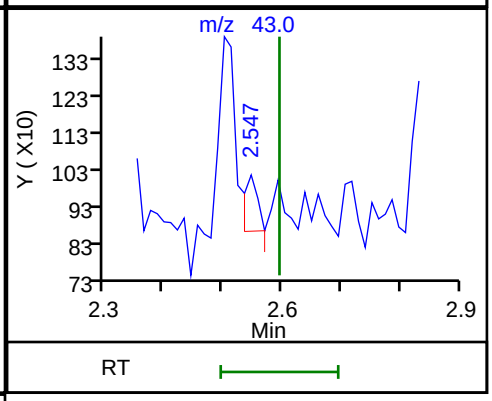
21 Isopropyl alcohol, CAS: 67-63-0

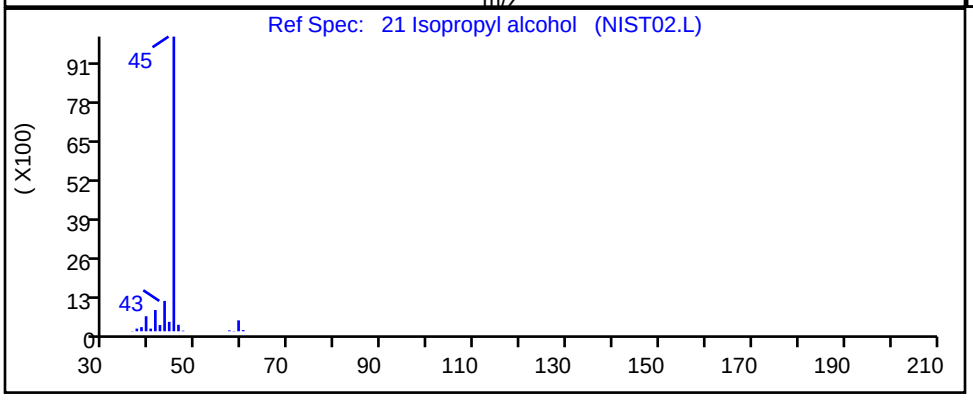
Processing Results











RT	Mass	Response	Amount
2.57	45.00	277	1.662387
2.55	43.00	235	

Reviewer: delpolitov, 28-Jun-2018 14:11:13
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

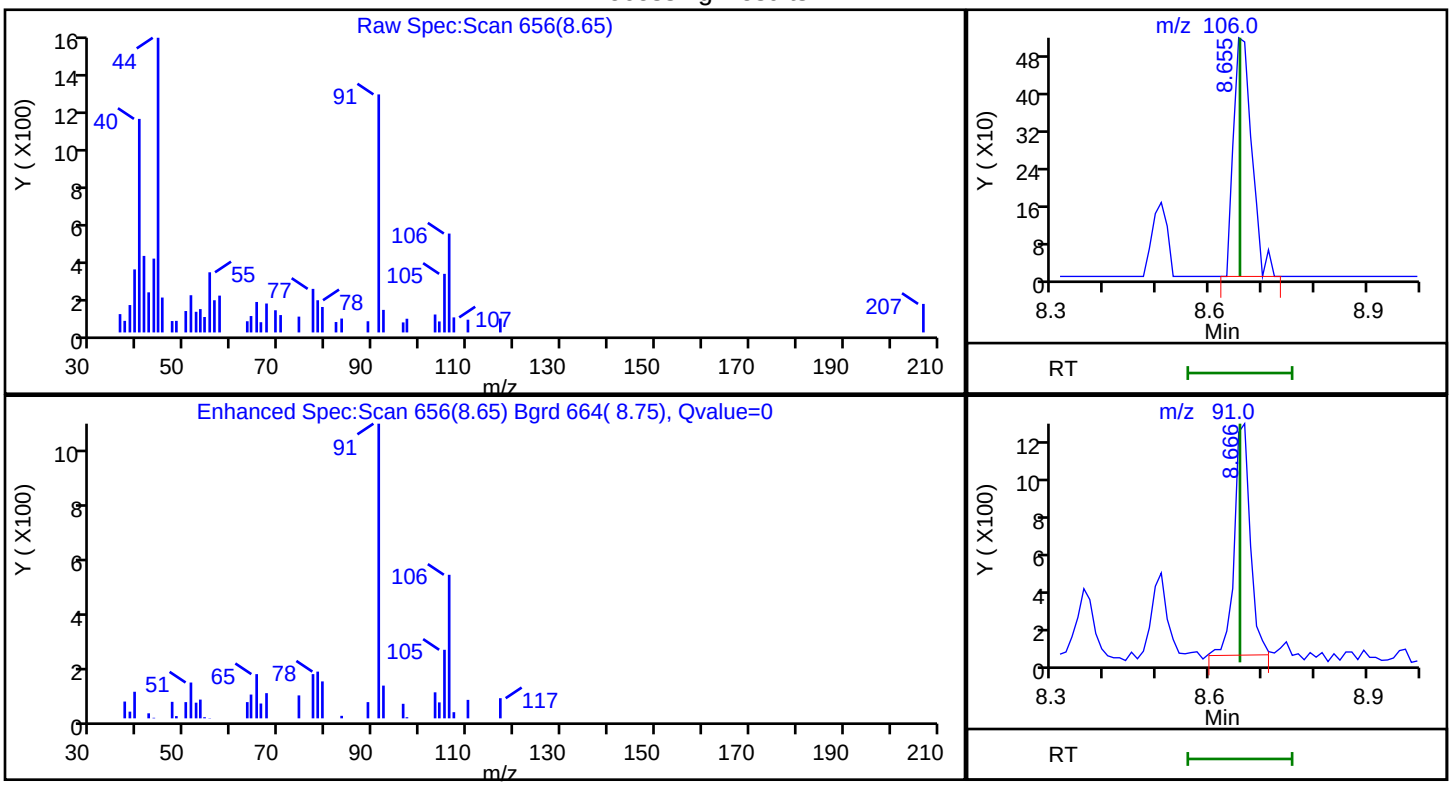
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

94 m-Xylene & p-Xylene, CAS: 179601-23-1

Processing Results



RT	Mass	Response	Amount
8.65	106.00	1241	0.288369
8.67	91.00	2456	

Reviewer: delpolitov, 28-Jun-2018 14:12:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

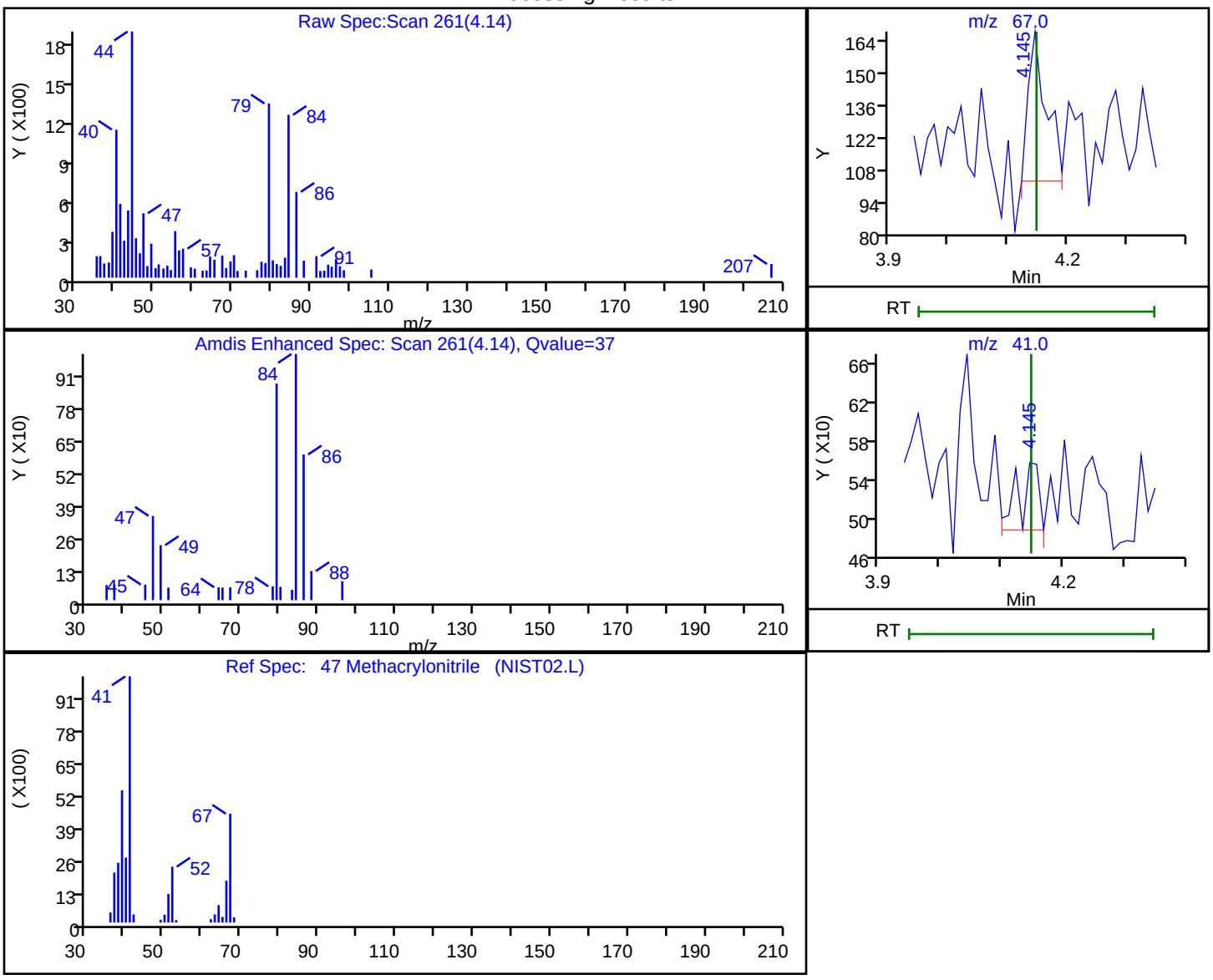
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

47 Methacrylonitrile, CAS: 126-98-7

Processing Results



RT	Mass	Response	Amount
4.14	67.00	140	0.140033
4.14	41.00	155	

Reviewer: delpolitov, 28-Jun-2018 14:12:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

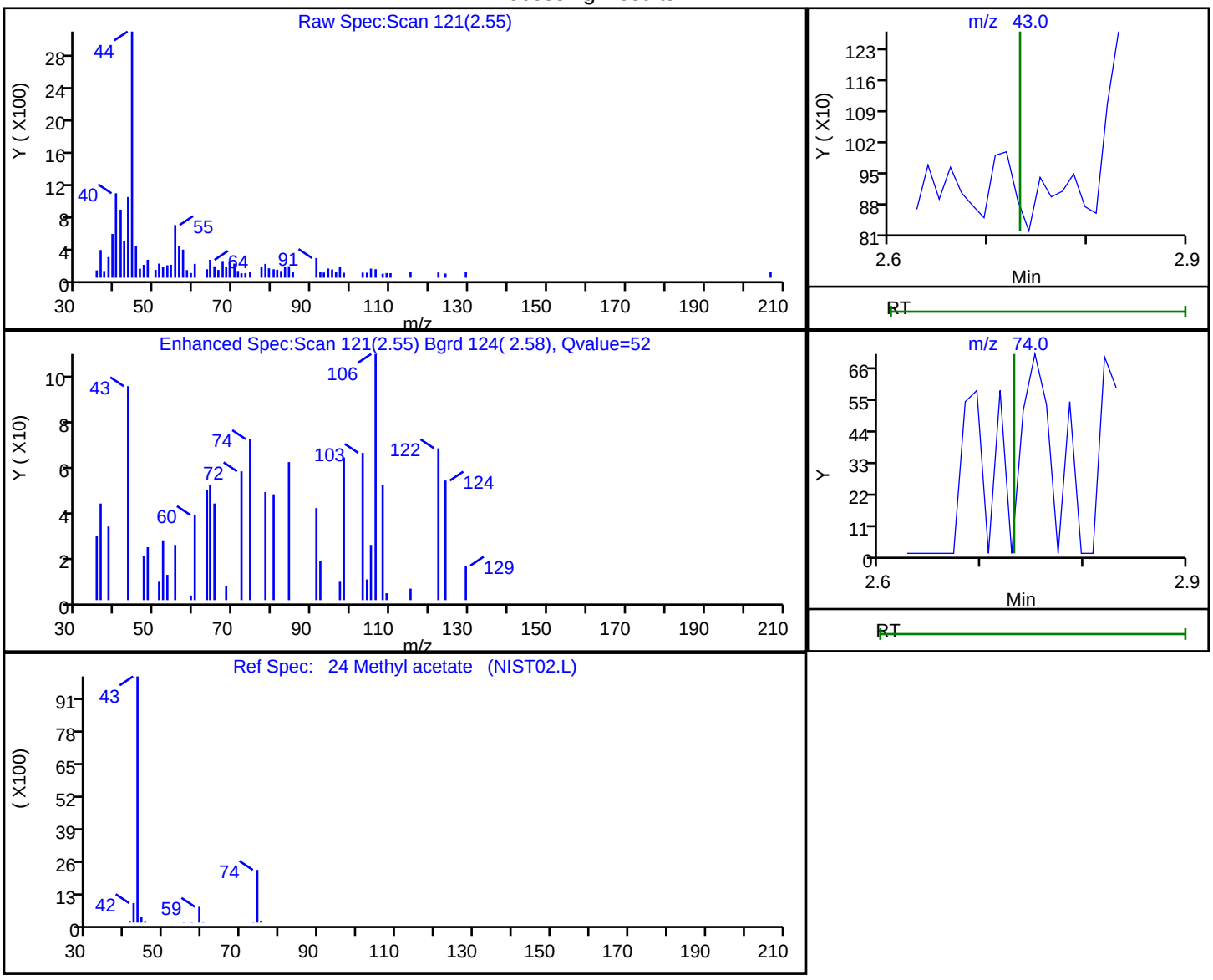
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

24 Methyl acetate, CAS: 79-20-9

Processing Results



RT	Mass	Response	Amount
2.55	43.00	262	0.124423
2.55	74.00	48	

Reviewer: delpolitov, 28-Jun-2018 14:11:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

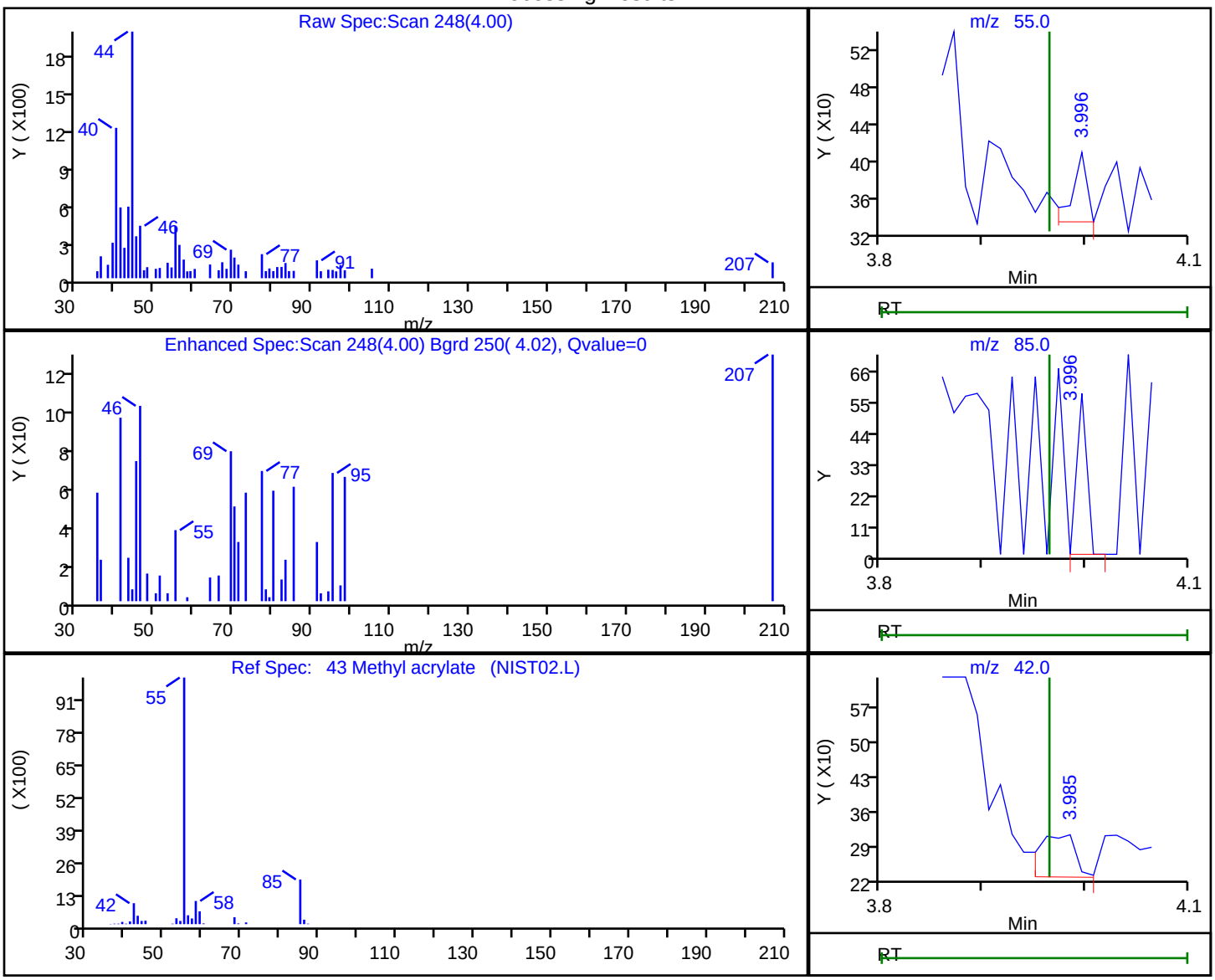
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

43 Methyl acrylate, CAS: 96-33-3

Processing Results



RT	Mass	Response	Amount
4.00	55.00	72	0.032237
4.00	85.00	40	
3.99	42.00	210	

Reviewer: delpolitov, 28-Jun-2018 14:12:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

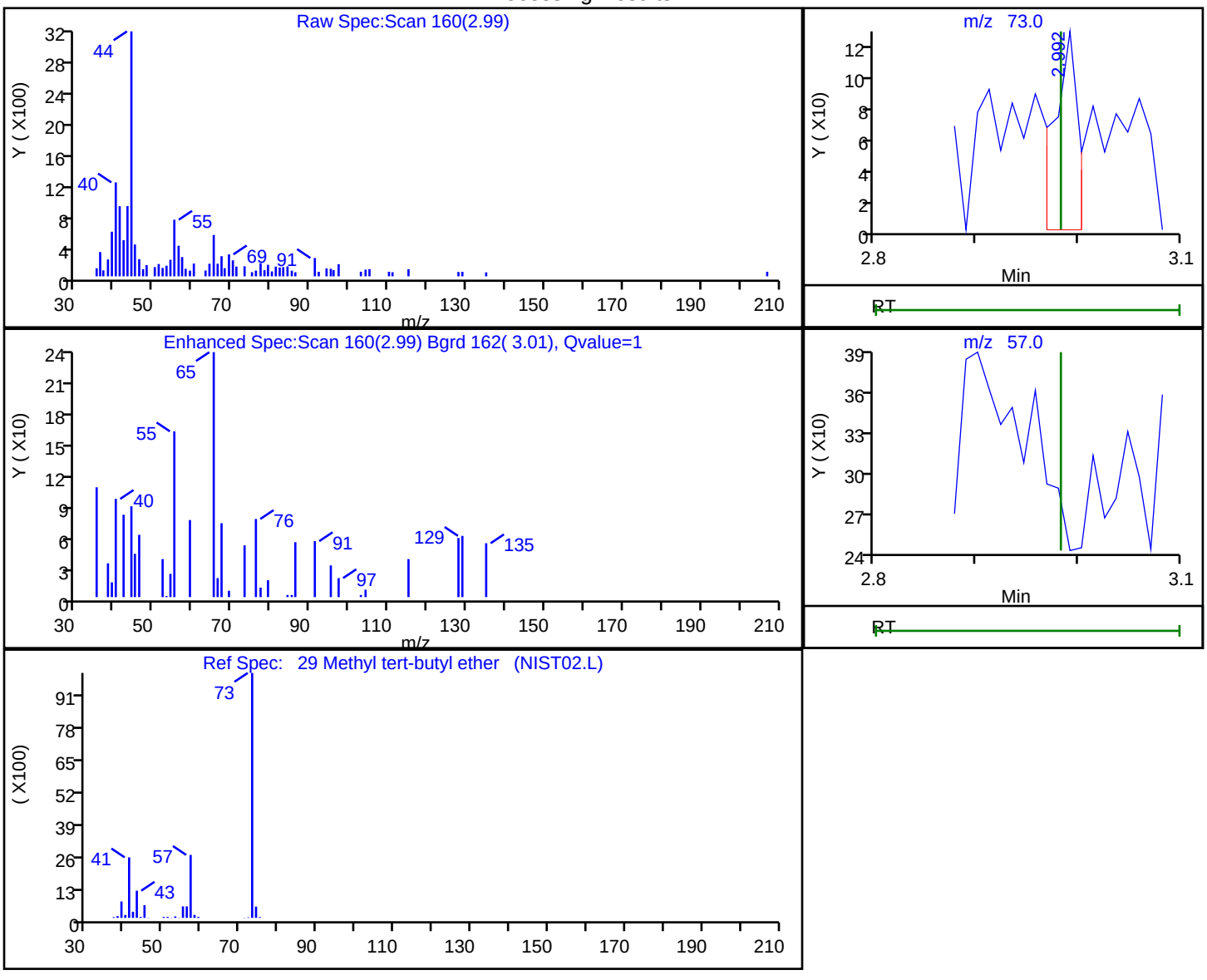
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Methyl tert-butyl ether, CAS: 1634-04-4

Processing Results



RT	Mass	Response	Amount
2.99	73.00	221	0.034526
2.98	57.00	0	

Reviewer: delpolitov, 28-Jun-2018 14:11:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

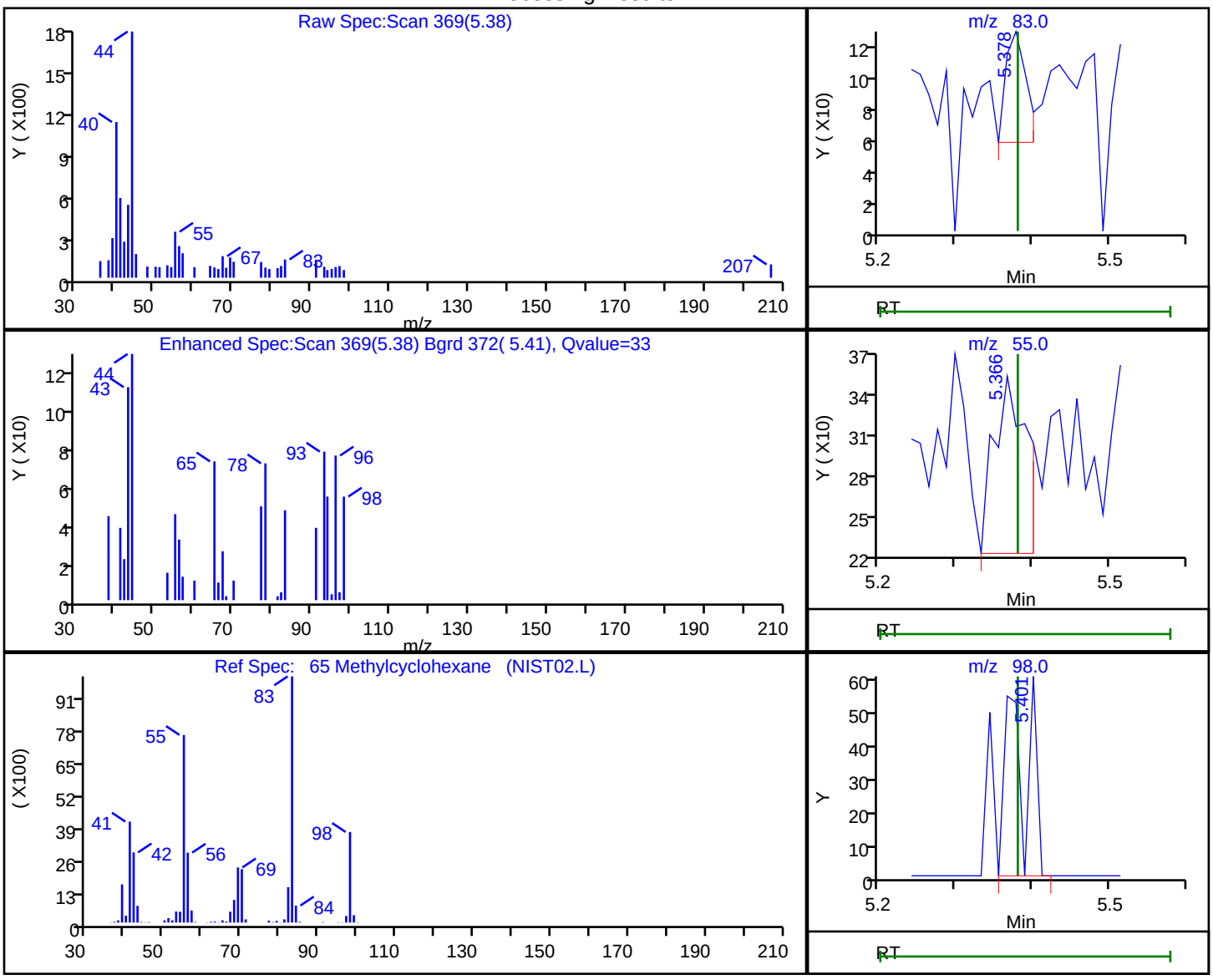
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

65 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
5.38	83.00	130	0.038553
5.37	55.00	378	
5.40	98.00	116	

Reviewer: delpolitov, 28-Jun-2018 14:12:22
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

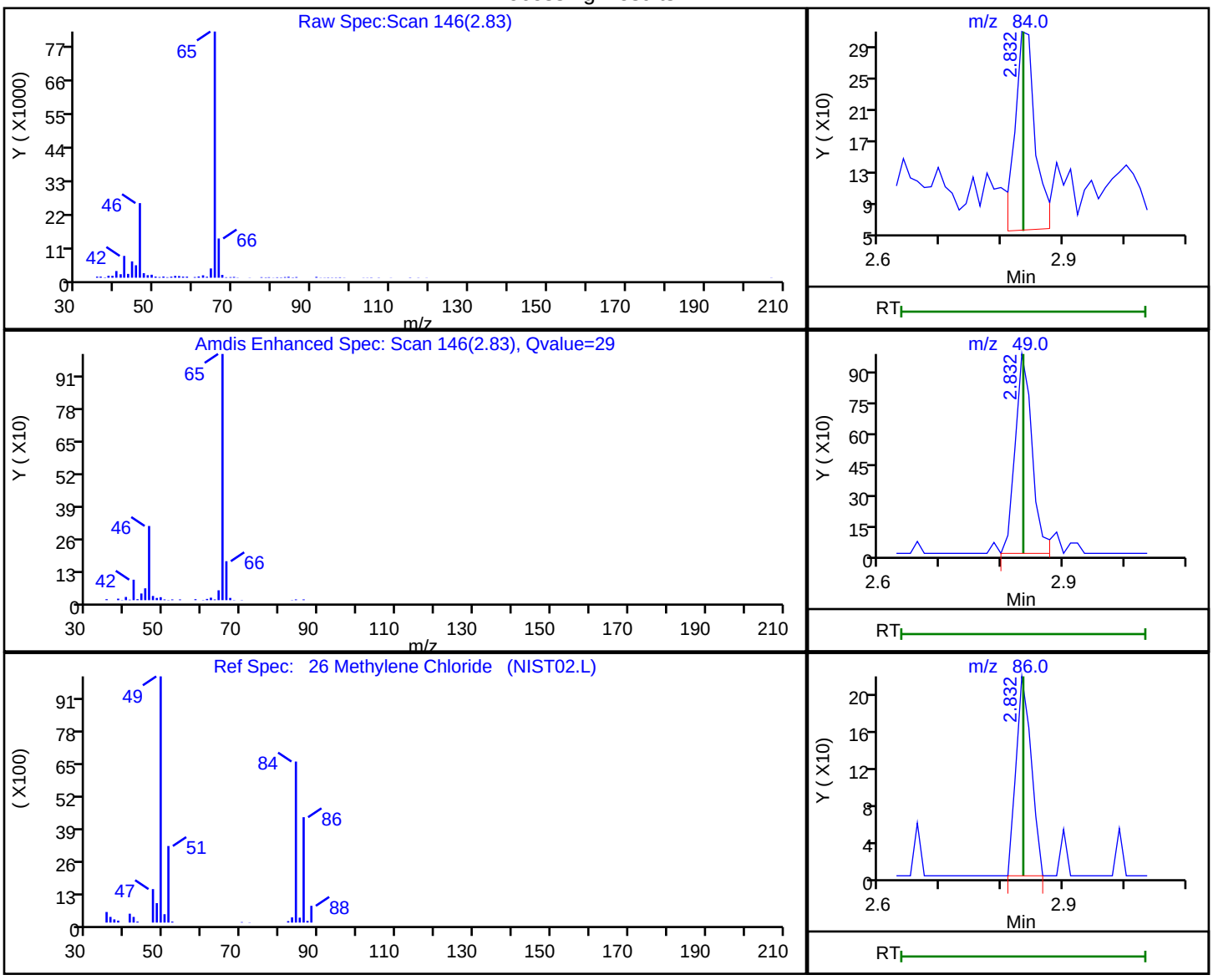
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
2.83	84.00	576	0.249786
2.83	49.00	1899	
2.83	86.00	377	

Reviewer: delpolitov, 28-Jun-2018 14:11:14
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

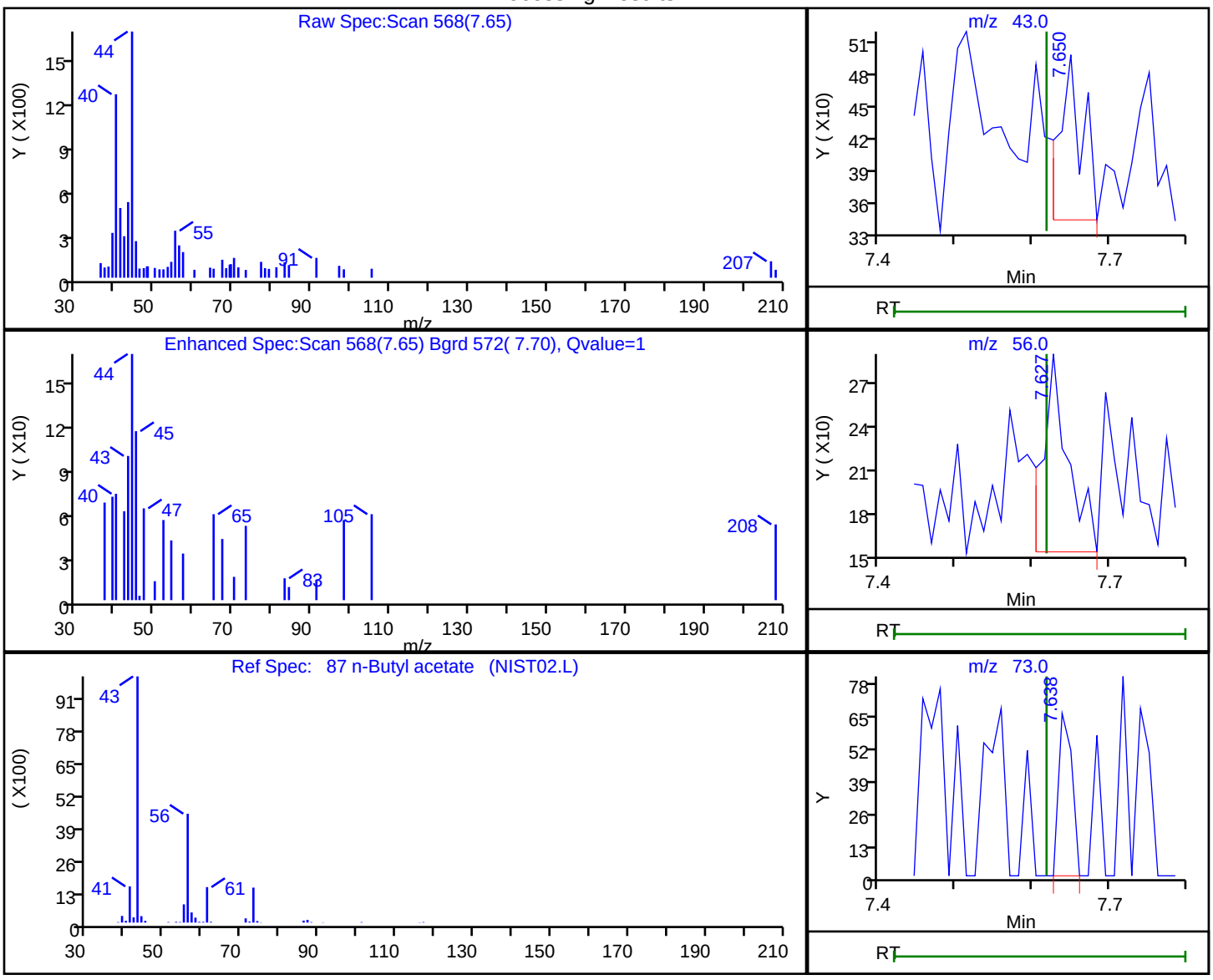
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

87 n-Butyl acetate, CAS: 123-86-4

Processing Results



RT	Mass	Response	Amount
7.65	43.00	313	0.066210
7.63	56.00	306	
7.64	73.00	80	

Reviewer: delpolitov, 28-Jun-2018 14:12:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

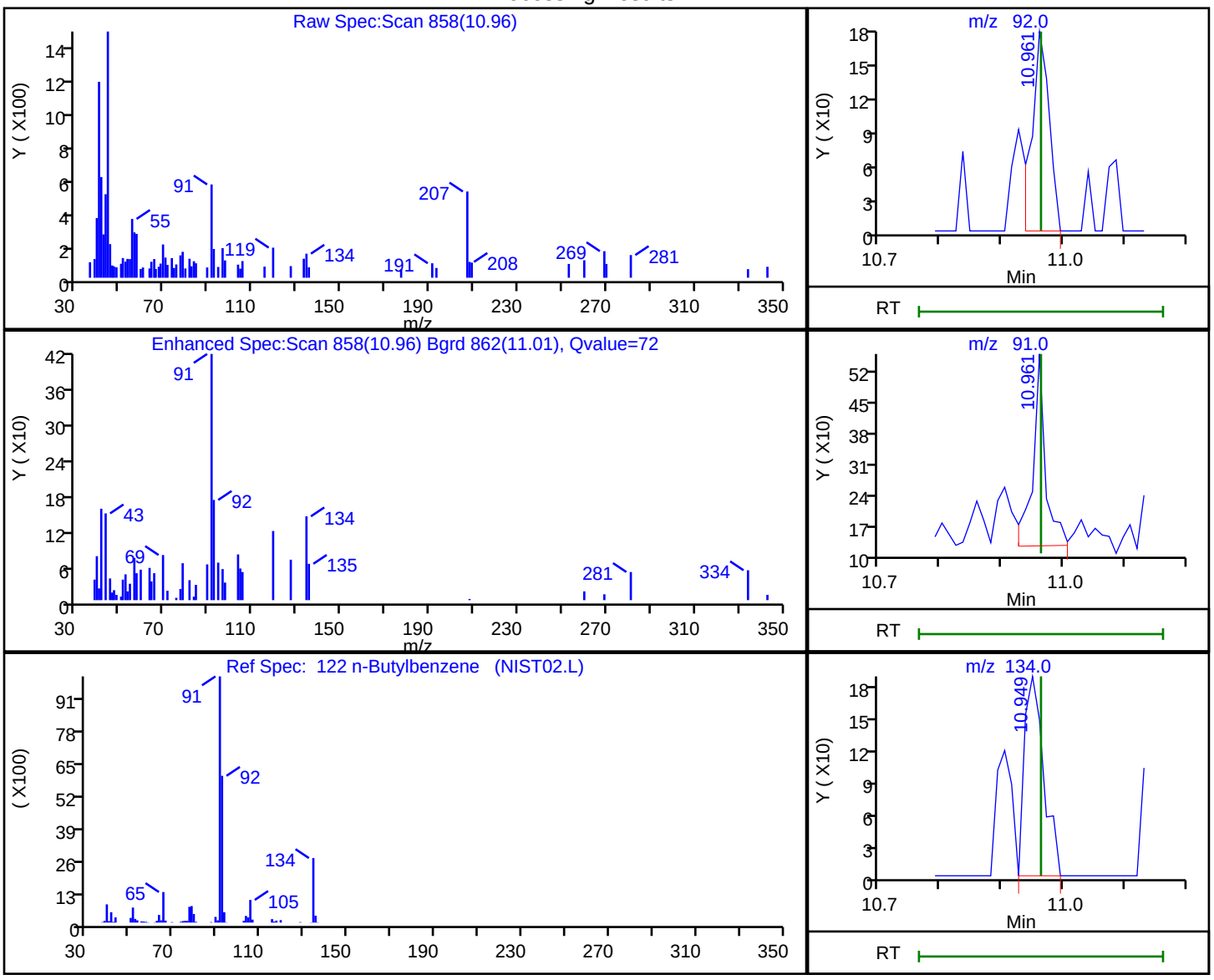
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

122 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
10.96	92.00	338	0.084416
10.96	91.00	616	
10.95	134.00	399	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

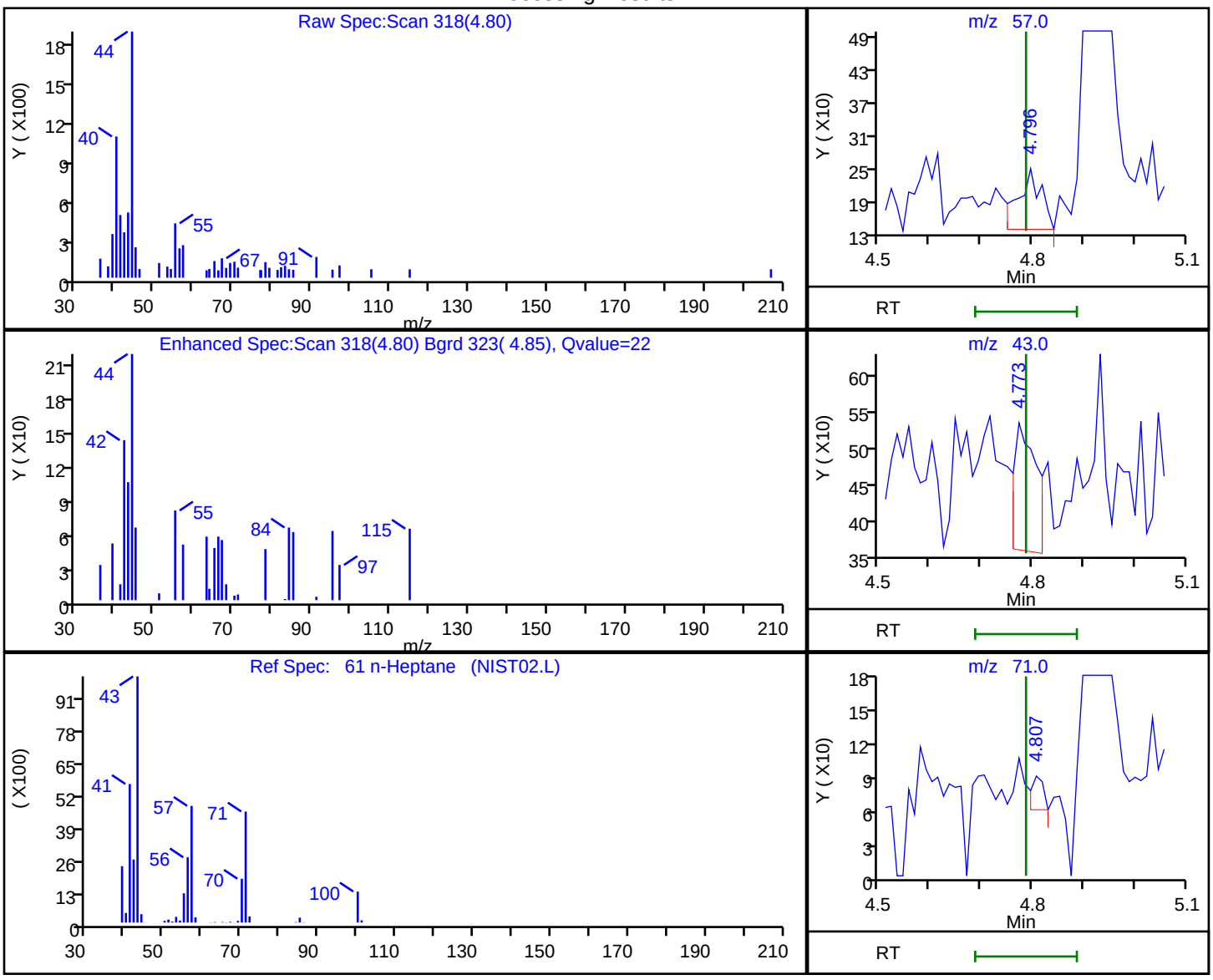
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

61 n-Heptane, CAS: 142-82-5

Processing Results



RT	Mass	Response	Amount
4.80	57.00	338	0.290753
4.77	43.00	533	
4.81	71.00	49	

Reviewer: delpolitov, 28-Jun-2018 14:12:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

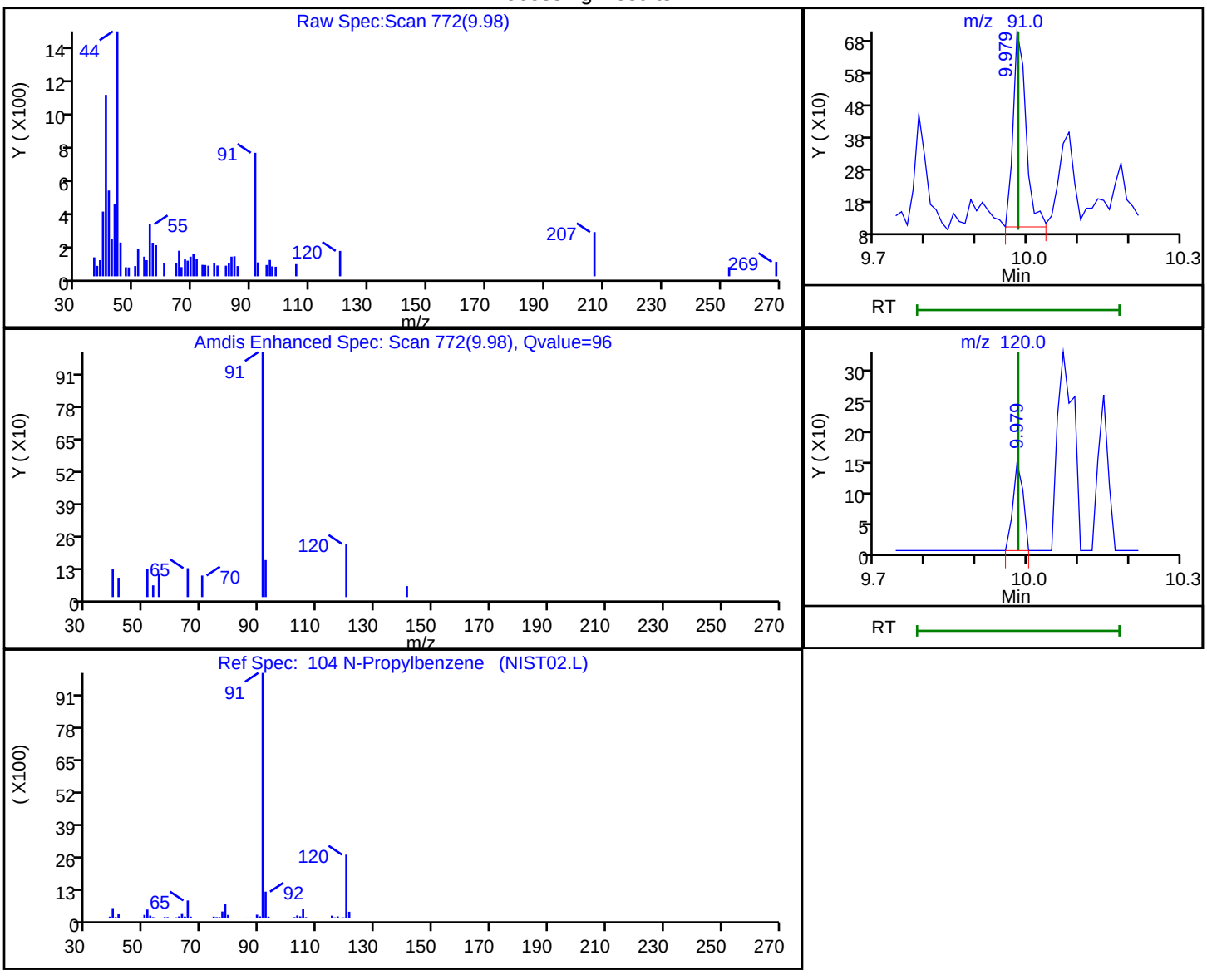
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

104 N-Propylbenzene, CAS: 103-65-1

Processing Results



RT	Mass	Response	Amount
9.98	91.00	1091	0.092922
9.98	120.00	204	

Reviewer: delpolitov, 28-Jun-2018 14:12:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

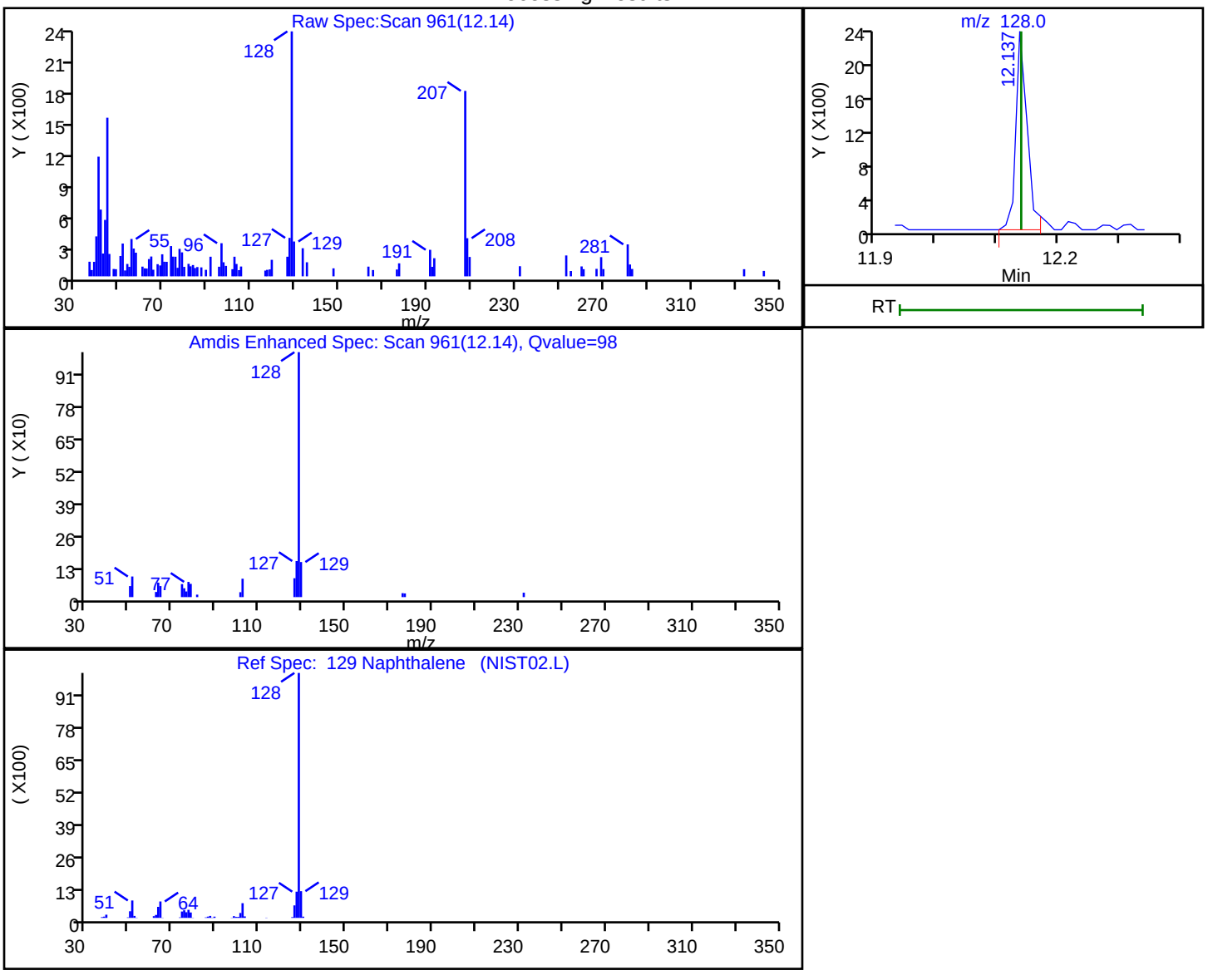
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

129 Naphthalene, CAS: 91-20-3

Processing Results



RT	Mass	Response	Amount
12.14	128.00	2983	0.419268

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

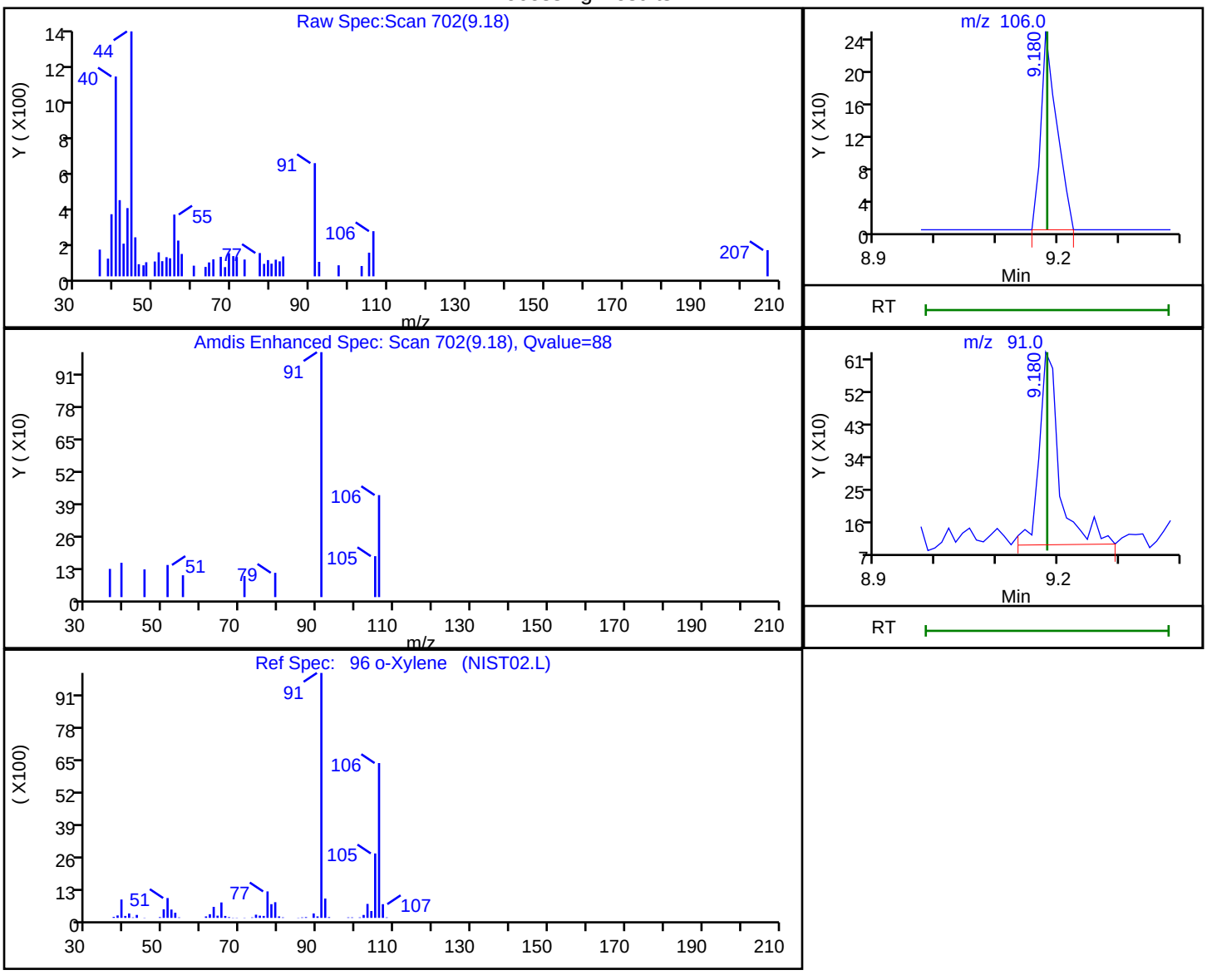
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

96 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
9.18	106.00	451	0.108505
9.18	91.00	1228	

Reviewer: delpolitov, 28-Jun-2018 14:12:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

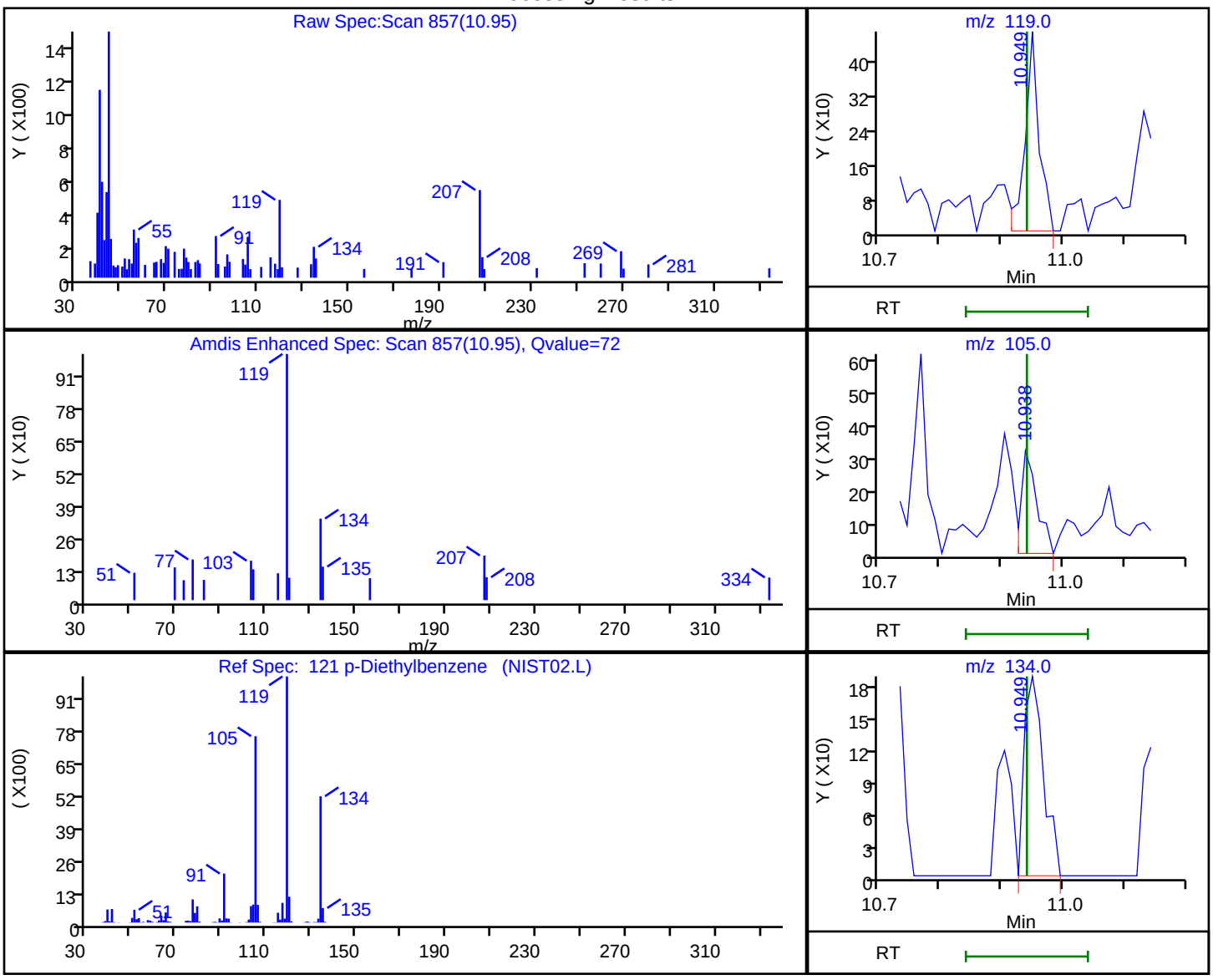
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

121 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
10.95	119.00	734	0.170090
10.94	105.00	567	
10.95	134.00	399	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

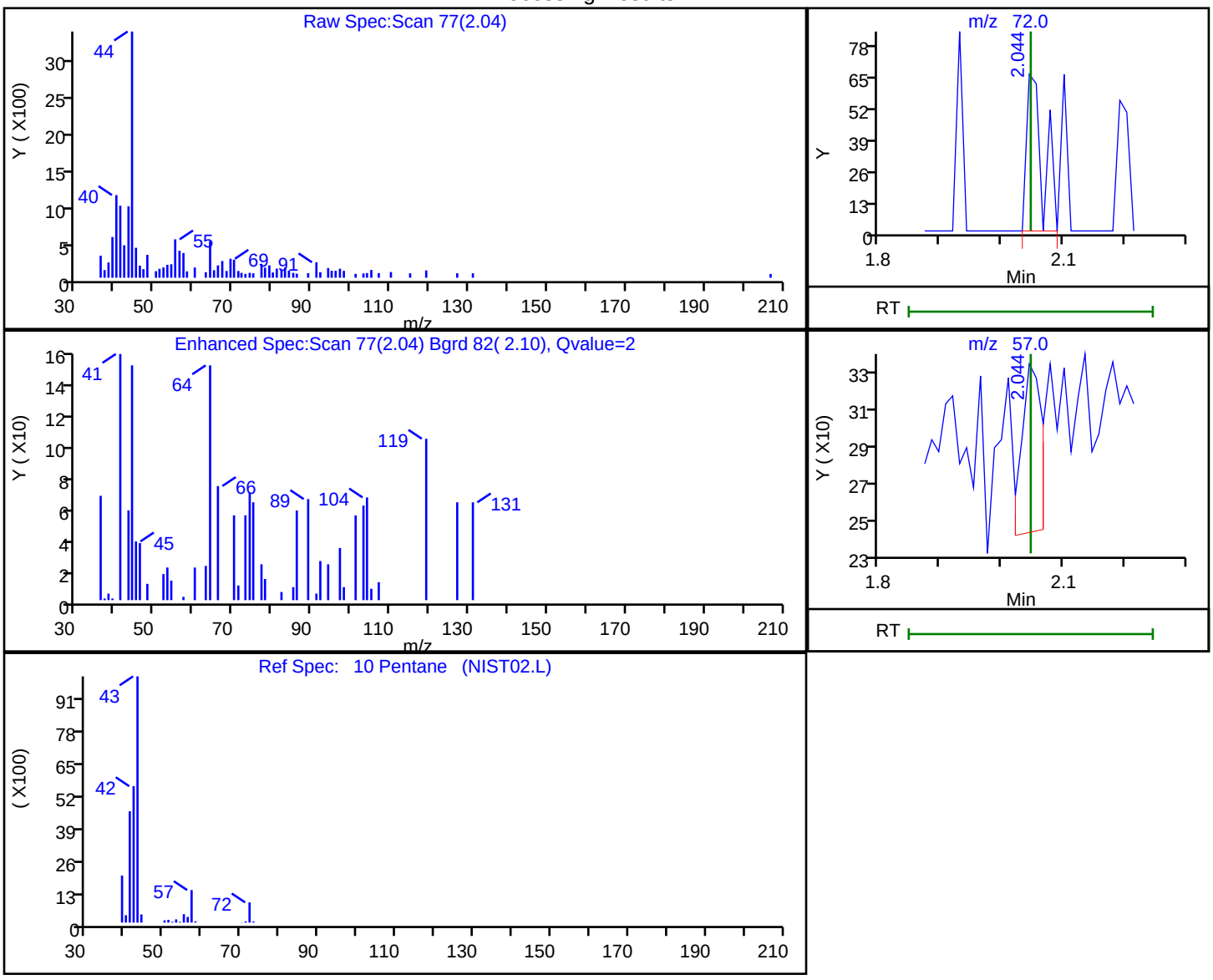
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Pentane, CAS: 109-66-0

Processing Results



RT	Mass	Response	Amount
2.04	72.00	123	0.459987
2.04	57.00	194	

Reviewer: delpolitov, 28-Jun-2018 14:11:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

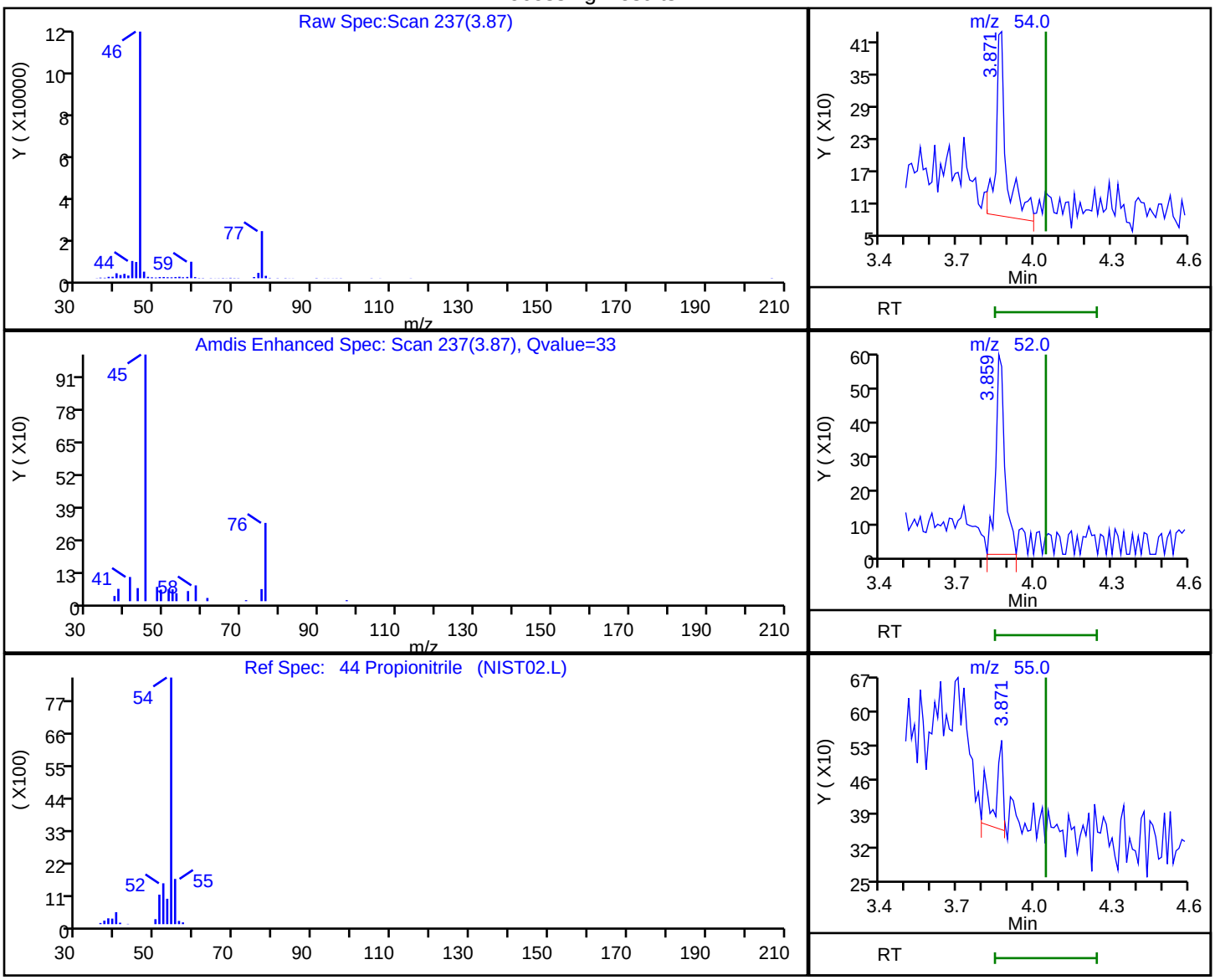
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
3.87	54.00	975	2.411724
3.86	52.00	1482	
3.87	55.00	414	

Reviewer: delpolitov, 28-Jun-2018 14:12:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

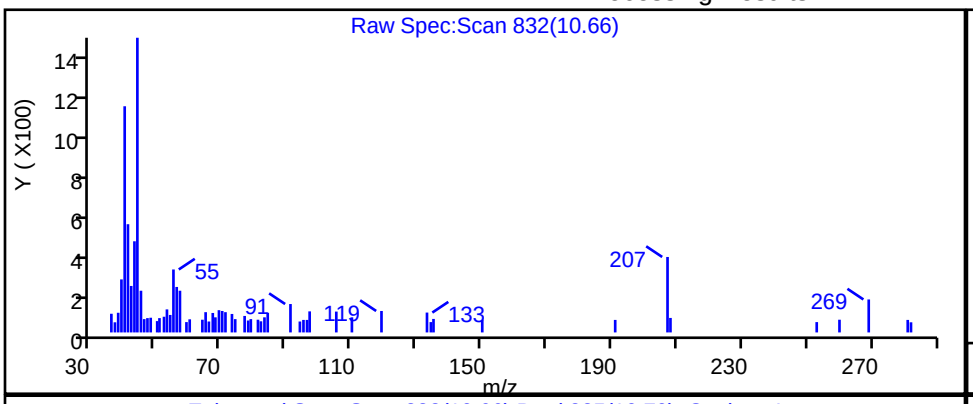
User Disabled Compound Report

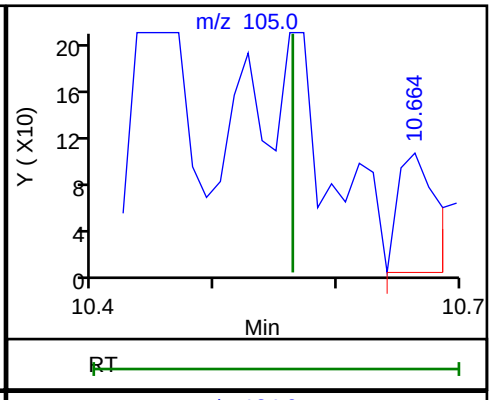
TestAmerica Edison

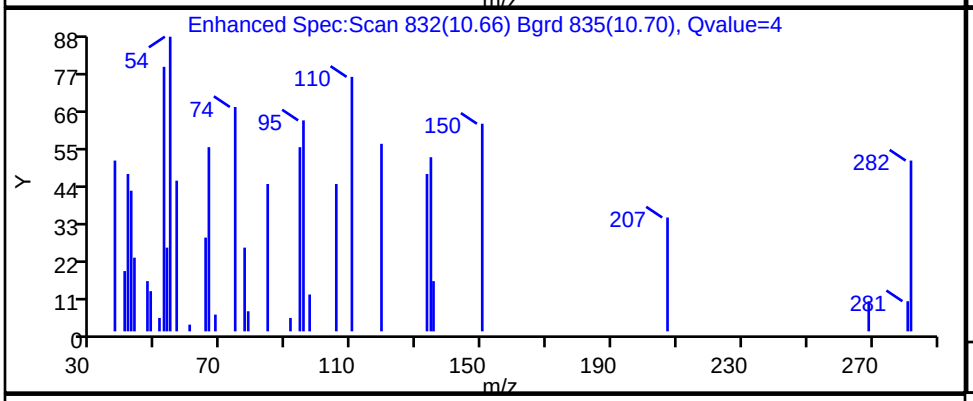
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

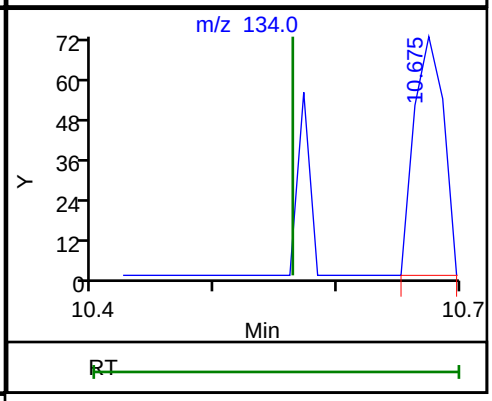
114 sec-Butylbenzene, CAS: 135-98-8

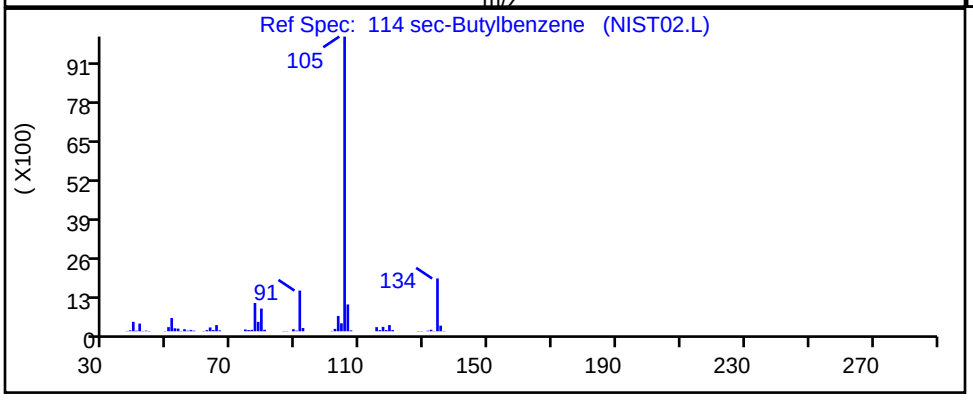
Processing Results











RT	Mass	Response	Amount
10.66	105.00	225	0.024373
10.68	134.00	123	

Reviewer: delpolitov, 28-Jun-2018 14:12:37
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

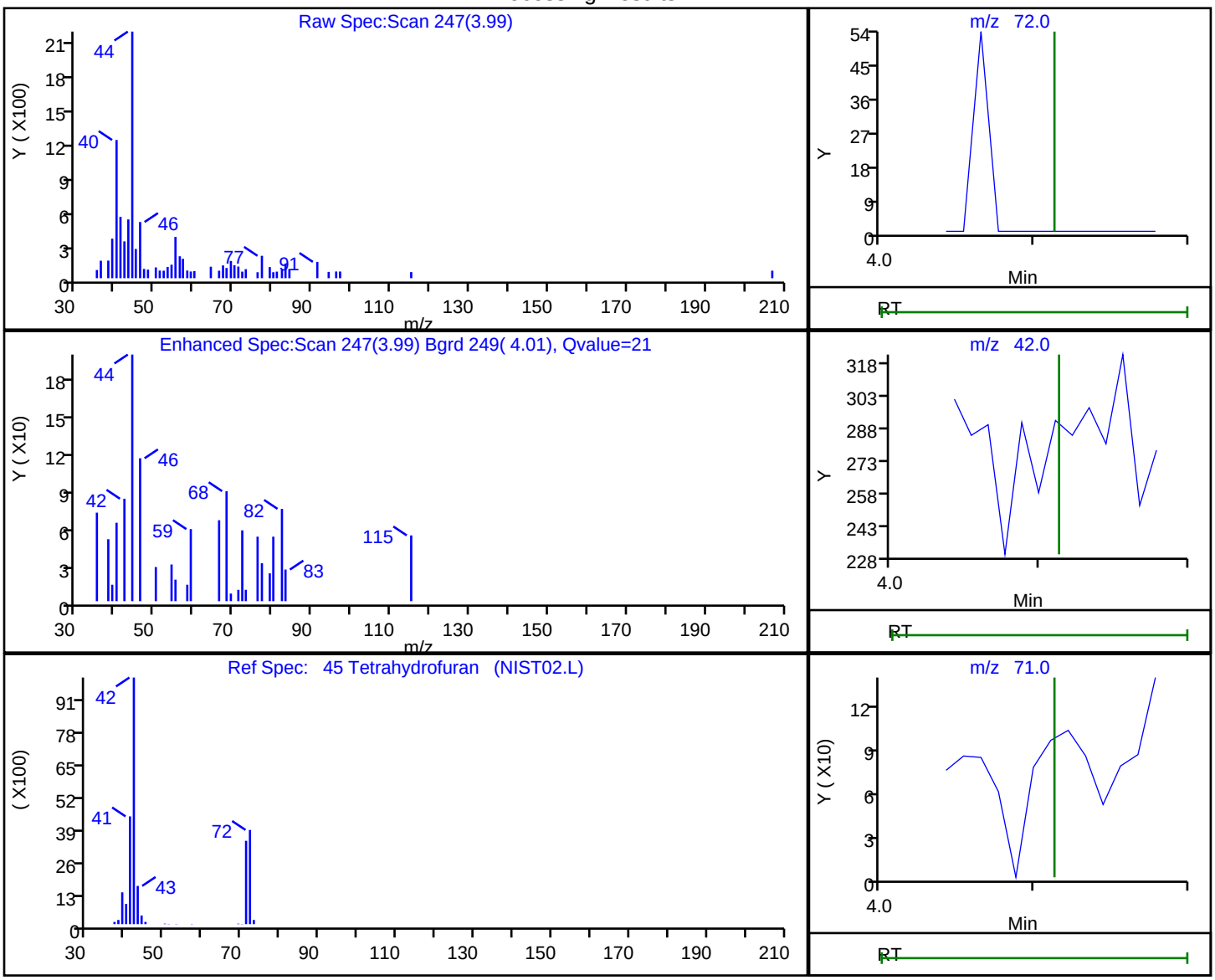
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Processing Results



RT	Mass	Response	Amount
3.99	72.00	38	0.124754
3.99	42.00	299	
4.00	71.00	348	

Reviewer: delpolitov, 28-Jun-2018 14:12:18
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

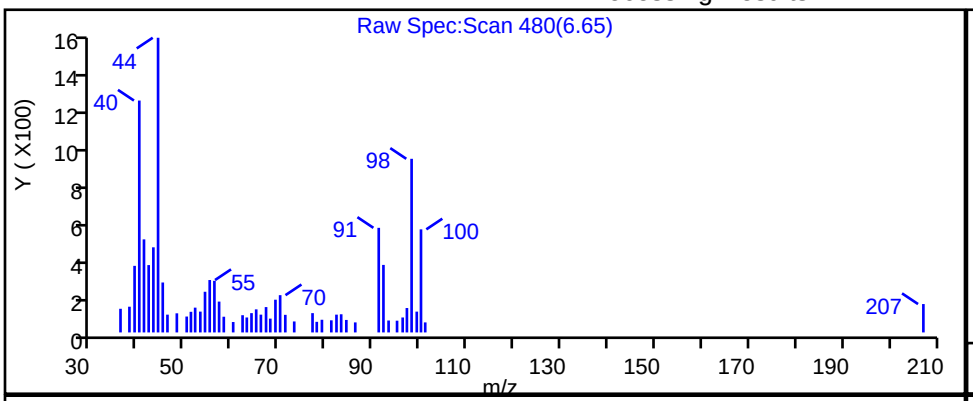
User Disabled Compound Report

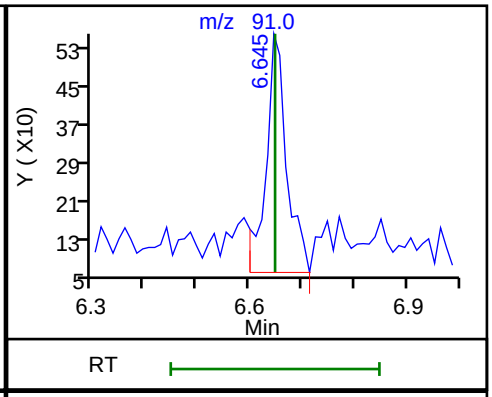
TestAmerica Edison

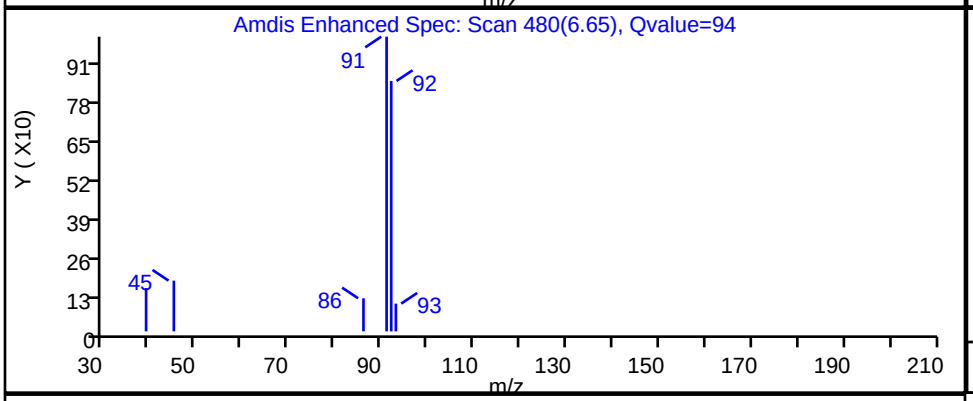
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

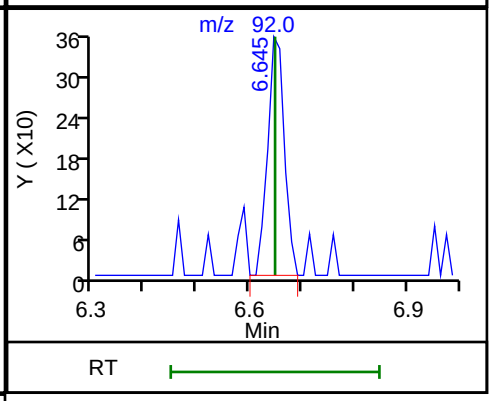
80 Toluene, CAS: 108-88-3

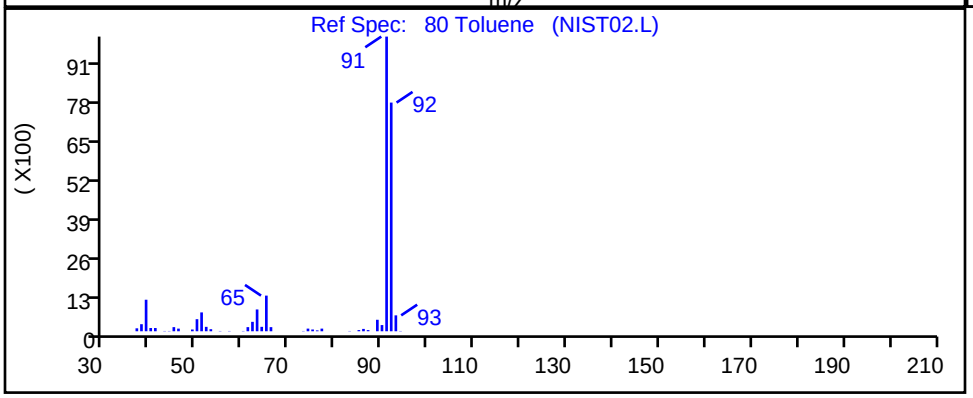
Processing Results











RT	Mass	Response	Amount
6.65	91.00	1360	0.132849
6.65	92.00	796	

Reviewer: delpolitov, 28-Jun-2018 14:12:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

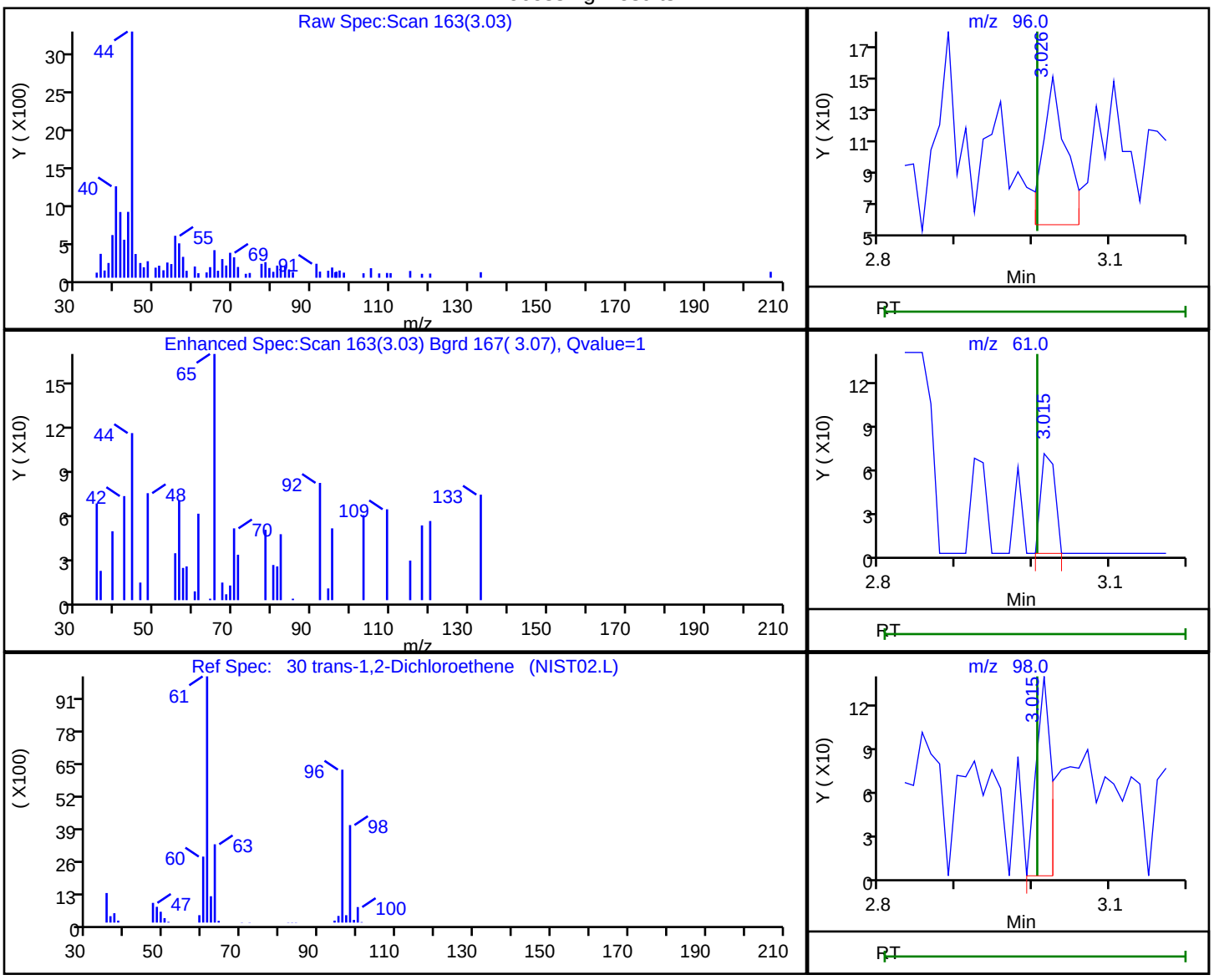
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

30 trans-1,2-Dichloroethene, CAS: 156-60-5

Processing Results



RT	Mass	Response	Amount
3.03	96.00	200	0.098090
3.01	61.00	86	
3.01	98.00	190	

Reviewer: delpolitov, 28-Jun-2018 14:11:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

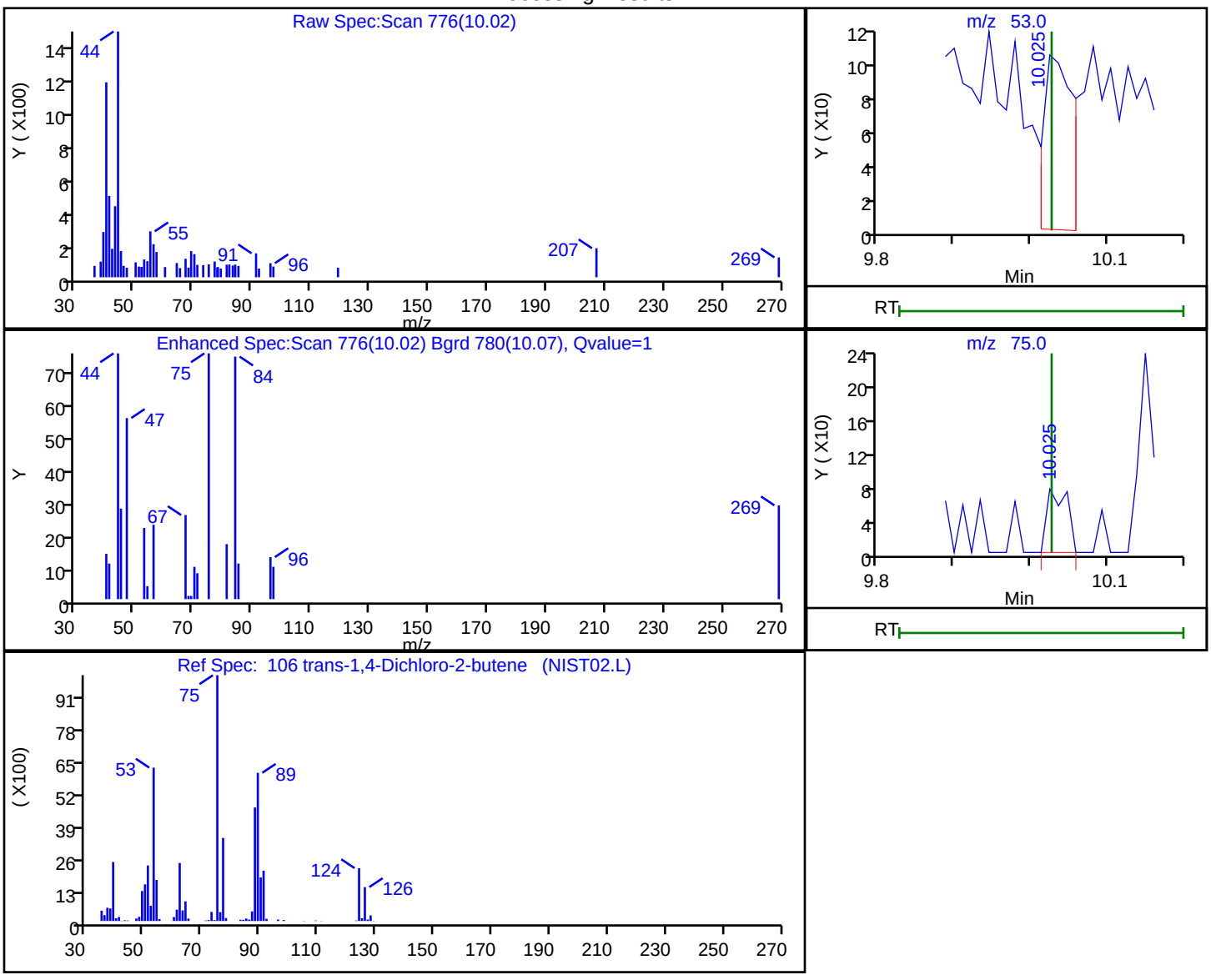
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

106 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
10.02	53.00	286	0.281405
10.02	75.00	140	

Reviewer: delpolitov, 28-Jun-2018 14:12:36
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

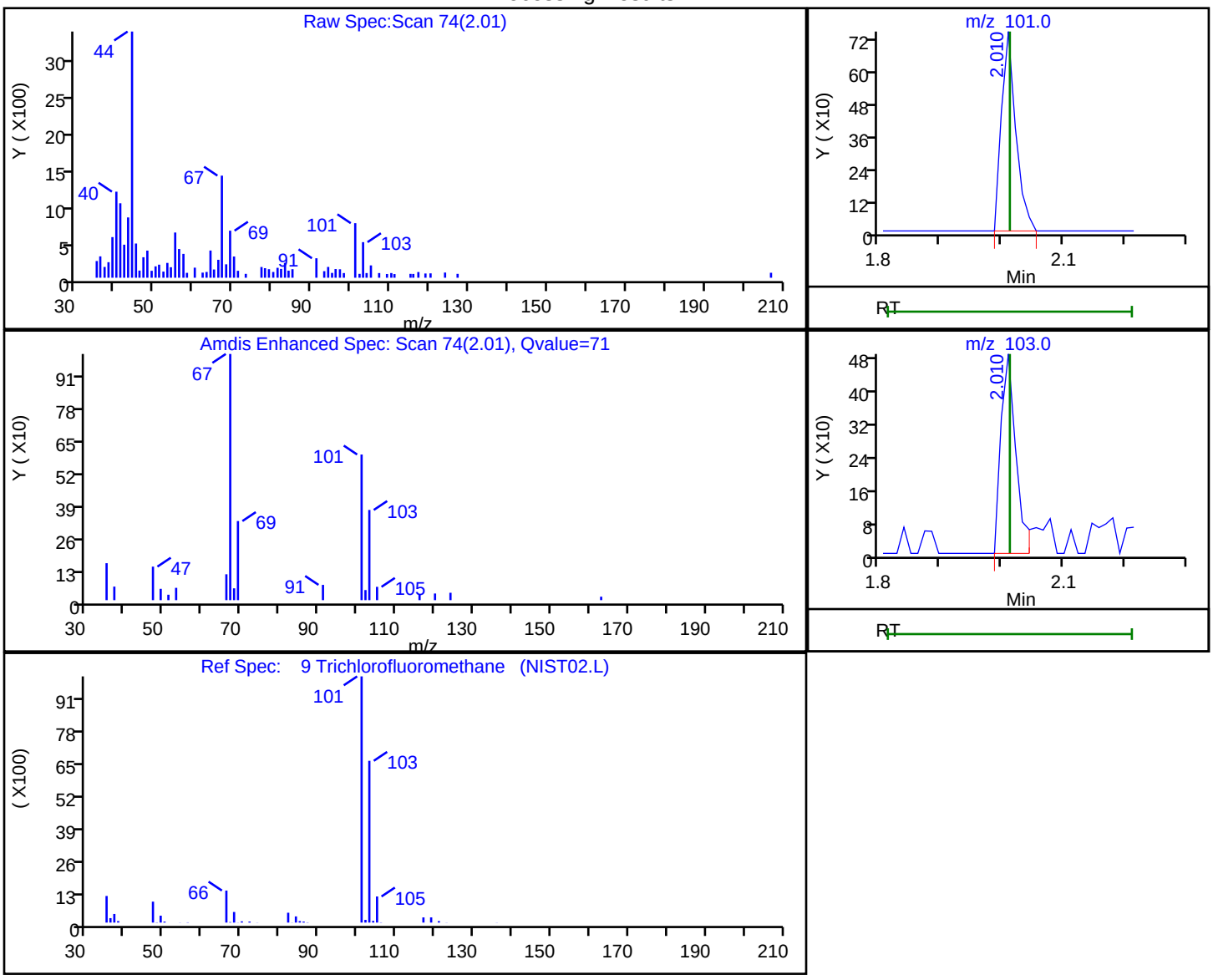
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

9 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
2.01	101.00	1217	0.359451
2.01	103.00	834	

Reviewer: delpolitov, 28-Jun-2018 14:11:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

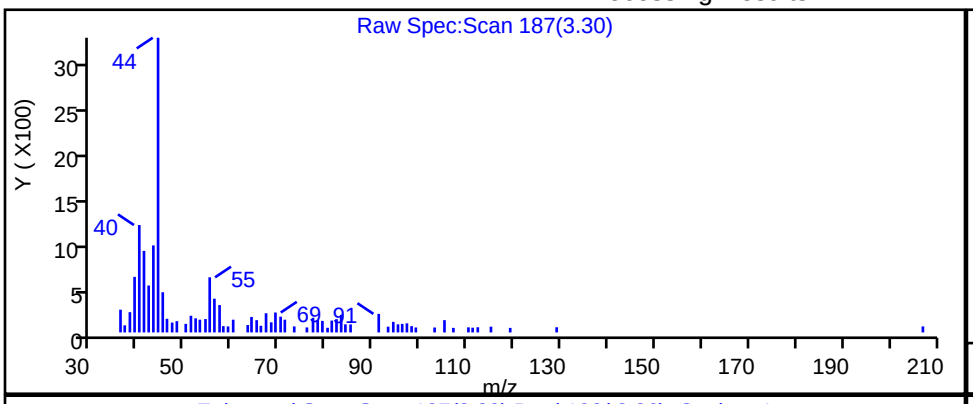
User Disabled Compound Report

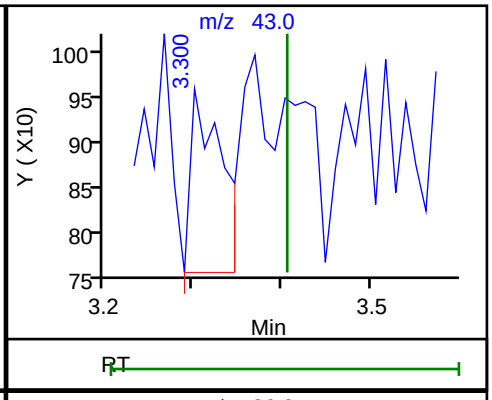
TestAmerica Edison

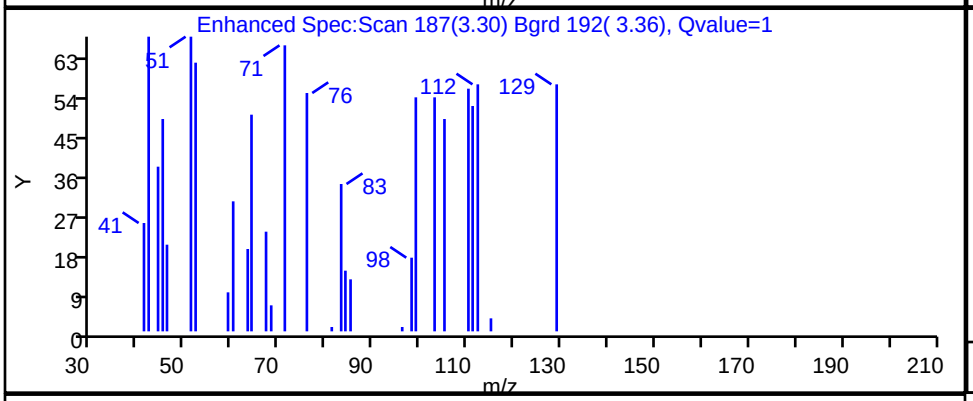
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

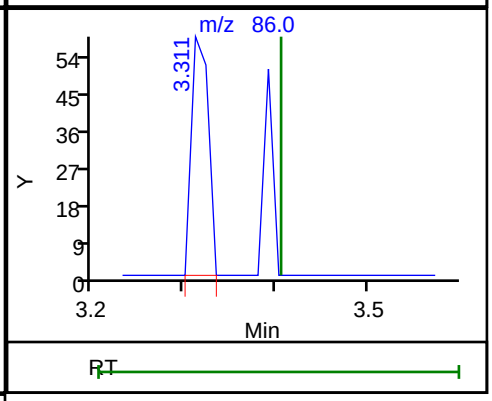
35 Vinyl acetate, CAS: 108-05-4

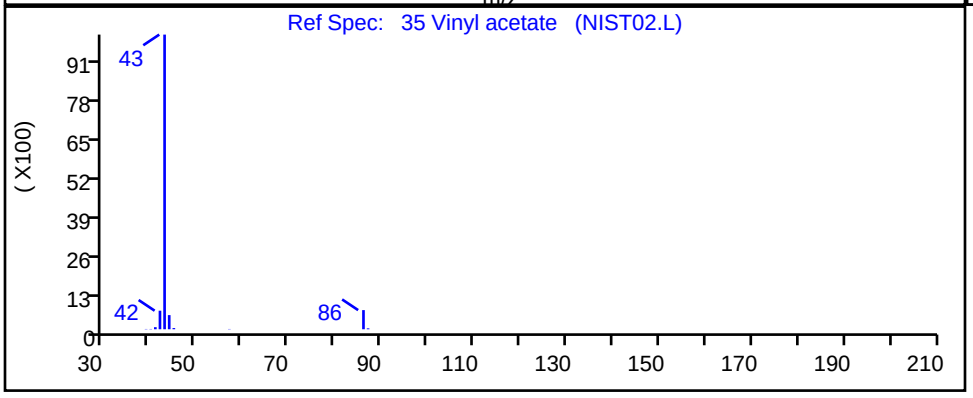
Processing Results











RT	Mass	Response	Amount
3.30	43.00	486	0.088174
3.31	86.00	76	

Reviewer: delpolitov, 28-Jun-2018 14:12:16
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

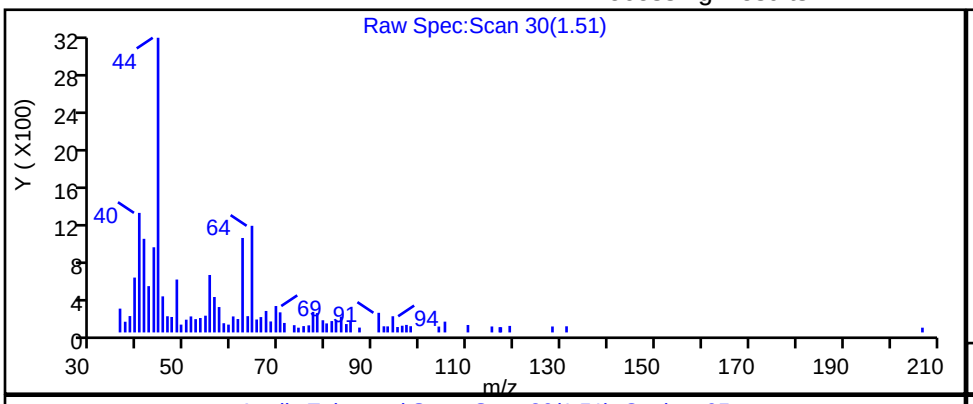
User Disabled Compound Report

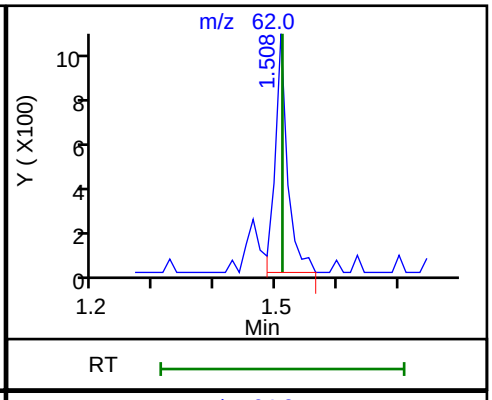
TestAmerica Edison

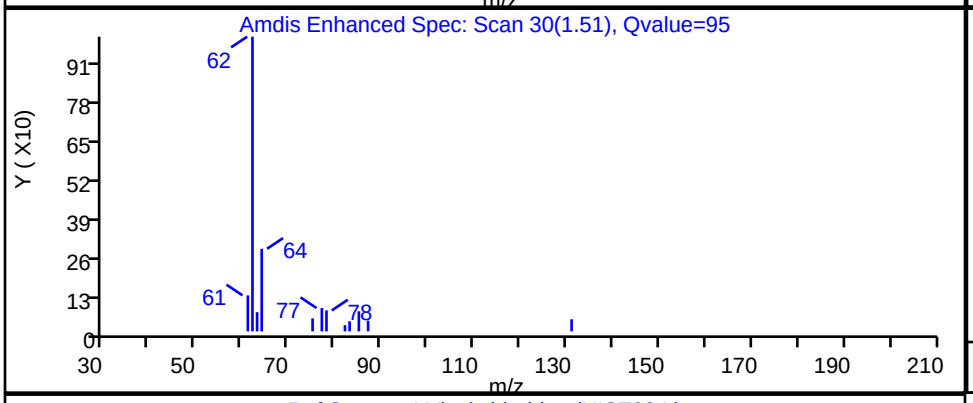
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71643.D
Injection Date: 26-Jun-2018 21:14:30 Instrument ID: CVOAMS8
Lims ID: STD7
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

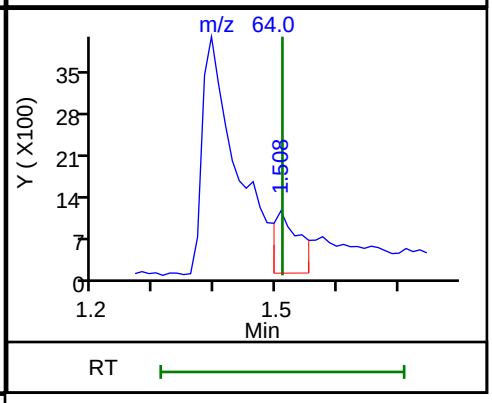
4 Vinyl chloride, CAS: 75-01-4

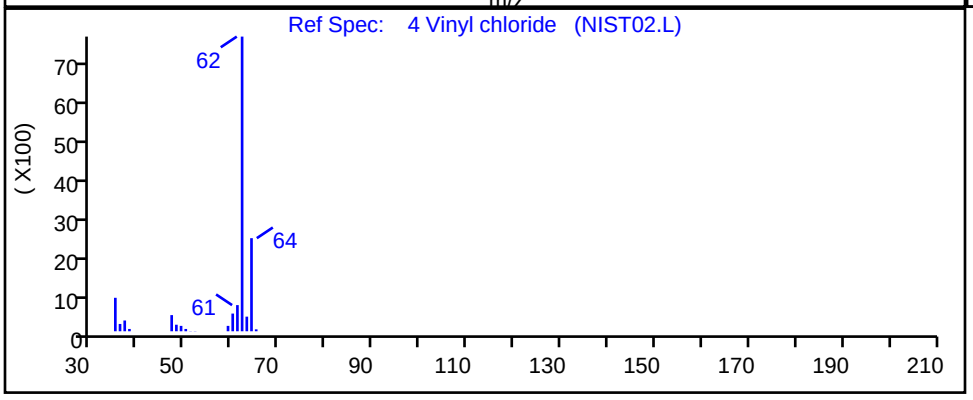
Processing Results











RT	Mass	Response	Amount
1.51	62.00	1432	0.435303
1.51	64.00	3048	

Reviewer: delpolitov, 28-Jun-2018 14:10:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71644.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 26-Jun-2018 21:41:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074417-004
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:56:14 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boykink Date: 26-Jun-2018 22:11:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.248	1.247	0.001	41	249	1.00	0.9304	
2 Dichlorodifluoromethane	85	1.271	1.270	0.001	96	2954	1.00	1.11	
3 Chloromethane	50	1.442	1.442	0.000	79	4023	1.00	1.15	
4 Vinyl chloride	62	1.511	1.510	0.001	98	3059	1.00	1.04	
5 Butadiene	54	1.522	1.533	-0.011	97	2294	1.00	0.8744	
6 Bromomethane	94	1.762	1.773	-0.011	94	943	1.00	0.6962	M
7 Chloroethane	64	1.842	1.841	0.001	97	1390	1.00	0.99	
8 Dichlorofluoromethane	67	2.002	2.001	0.001	95	3821	1.00	0.9397	
9 Trichlorofluoromethane	101	2.002	2.012	-0.010	75	2858	1.00	0.9265	
10 Pentane	72	2.048	2.047	0.001	94	611	2.00	2.47	
11 Ethanol	46	2.196	2.195	0.001	90	608	40.0	43.8	
12 Ethyl ether	59	2.230	2.229	0.001	96	2000	1.00	1.06	
13 2-Methyl-1,3-butadiene	53	2.242	2.241	0.001	97	1634	1.00	0.8767	
14 1,2-Dichloro-1,1,2-trifluo	117	2.276	2.275	0.001	96	1806	1.00	1.19	
15 1,1,2-Trichloro-1,2,2-trif	101	2.379	2.378	0.001	92	1668	1.00	0.9595	
16 Acrolein	56	2.390	2.389	0.001	91	1688	4.00	4.27	
17 1,1-Dichloroethene	96	2.413	2.412	0.001	95	1603	1.00	0.9425	
18 Acetone	43	2.504	2.503	0.001	84	5146	5.00	6.85	
19 Iodomethane	142	2.550	2.560	-0.010	96	1236	1.00	0.5696	
20 Carbon disulfide	76	2.584	2.583	0.001	100	7408	1.00	1.04	
21 Isopropyl alcohol	45	2.596	2.595	0.001	55	1599	10.0	10.4	
22 3-Chloro-1-propene	76	2.710	2.709	0.001	88	1399	1.00	1.12	
24 Methyl acetate	43	2.733	2.732	0.001	95	4340	2.00	2.10	
23 Cyclopentene	67	2.721	2.732	-0.011	95	5233	1.00	0.99	
25 Acetonitrile	41	2.790	2.789	0.001	97	4209	10.0	11.3	
26 Methylene Chloride	84	2.835	2.834	0.001	32	2640	1.00	1.16	
* 27 TBA-d9 (IS)	65	2.835	2.834	0.001	0	150783	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.904	2.903	0.001	97	3185	10.0	15.0	M
29 Methyl tert-butyl ether	73	2.984	2.983	0.001	97	5949	1.00	0.9456	
30 trans-1,2-Dichloroethene	96	3.007	3.006	0.001	97	2028	1.00	1.01	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.086	3.086	0.000	94	9514	10.0	9.27	
32 Hexane	57	3.144	3.154	-0.010	93	3183	1.00	1.20	
33 Isopropyl ether	45	3.361	3.360	0.000	91	8339	1.00	0.9413	
34 1,1-Dichloroethane	63	3.395	3.394	0.001	98	4491	1.00	1.01	
35 Vinyl acetate	43	3.406	3.405	0.001	100	10649	2.00	1.97	
36 2-Chloro-1,3-butadiene	88	3.429	3.428	0.001	96	1579	1.00	0.8981	
37 Tert-butyl ethyl ether	59	3.657	3.656	0.001	87	7029	1.00	0.9860	
38 2,2-Dichloropropane	79	3.863	3.862	0.001	45	1352	1.00	1.21	
* 39 2-Butanone-d5	46	3.863	3.862	0.001	0	239797	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.897	3.896	0.001	95	2584	1.00	1.02	
41 2-Butanone (MEK)	72	3.920	3.919	0.001	94	1158	5.00	5.02	
42 Ethyl acetate	70	3.920	3.919	0.001	93	571	2.00	2.33	
43 Methyl acrylate	55	3.966	3.965	0.001	98	2000	1.00	0.9111	
44 Propionitrile	54	4.046	4.045	0.000	96	3837	10.0	10.2	
46 Chlorobromomethane	128	4.114	4.113	0.001	96	1217	1.00	1.11	
45 Tetrahydrofuran	72	4.114	4.113	0.001	69	770	2.00	2.59	
47 Methacrylonitrile	67	4.148	4.147	0.001	96	9109	10.0	9.27	
48 Chloroform	83	4.160	4.170	-0.010	97	4317	1.00	1.03	
49 Cyclohexane	84	4.274	4.273	0.001	94	2786	1.00	0.9299	
50 1,1,1-Trichloroethane	97	4.297	4.296	0.001	97	3665	1.00	1.04	
$ 51 Dibromofluoromethane (Surr	113	4.320	4.319	0.001	95	95179	50.0	50.5	
52 Carbon tetrachloride	117	4.411	4.410	0.001	97	2909	1.00	1.01	
53 1,1-Dichloropropene	75	4.445	4.444	0.001	93	3546	1.00	1.05	
58 Isobutyl alcohol	43	4.594	4.593	0.001	84	4352	25.0	29.2	
54 Isooctane	57	4.594	4.593	0.001	72	5381	1.00	1.02	
55 Benzene	78	4.639	4.638	0.001	94	9659	1.00	0.9722	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.662	4.661	0.001	0	126667	50.0	49.9	
57 Tert-amyl methyl ether	87	4.708	4.707	0.001	75	1676	1.00	0.9188	
59 Isopropyl acetate	43	4.708	4.707	0.001	92	6479	1.00	0.8915	
60 1,2-Dichloroethane	62	4.731	4.730	0.000	97	4120	1.00	1.11	
61 n-Heptane	57	4.788	4.787	0.001	95	1127	1.00	0.9864	
* 62 Fluorobenzene	96	4.925	4.924	0.001	97	411959	50.0	50.0	
63 n-Butanol	56	5.256	5.255	0.001	57	2111	25.0	30.0	
64 Trichloroethene	95	5.267	5.266	0.001	90	2518	1.00	1.02	
65 Methylcyclohexane	83	5.381	5.380	0.001	92	3080	1.00	0.9294	
66 Ethyl acrylate	55	5.404	5.403	0.001	78	5842	1.00	0.9349	
67 1,2-Dichloropropane	63	5.564	5.563	0.001	87	2869	1.00	1.03	
* 68 1,4-Dioxane-d8	96	5.621	5.631	-0.010	0	23626	1000.0	1000.0	
69 Methyl methacrylate	100	5.644	5.643	0.001	93	881	2.00	1.61	
70 1,4-Dioxane	88	5.690	5.677	0.013	69	1457	50.0	51.5	
71 Dibromomethane	93	5.690	5.689	0.001	95	1573	1.00	0.9647	
72 n-Propyl acetate	43	5.701	5.700	0.001	97	3615	1.00	0.9190	
73 Dichlorobromomethane	83	5.838	5.837	0.001	98	3395	1.00	0.9721	
74 2-Nitropropane	41	6.180	6.179	0.001	98	1660	2.00	2.27	
76 Epichlorohydrin	57	6.295	6.294	0.001	99	3408	20.0	20.0	
77 cis-1,3-Dichloropropene	75	6.340	6.339	0.001	97	3988	1.00	0.9499	
78 4-Methyl-2-pentanone (MIBK	43	6.512	6.511	0.001	96	11720	5.00	5.18	
$ 79 Toluene-d8 (Surr)	98	6.569	6.579	-0.010	98	365426	50.0	49.1	
80 Toluene	91	6.649	6.648	0.001	93	10422	1.00	1.02	
81 trans-1,3-Dichloropropene	75	7.014	7.013	0.001	96	3945	1.00	1.00	
82 Ethyl methacrylate	69	7.048	7.047	0.001	92	2946	1.00	0.9487	
83 1,1,2-Trichloroethane	83	7.231	7.230	0.001	93	2284	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.254	7.253	0.001	88	2029	1.00	0.9736	
85 1,3-Dichloropropane	76	7.436	7.435	0.001	95	3753	1.00	0.9623	
86 2-Hexanone	58	7.505	7.504	0.001	98	4845	5.00	5.38	
87 n-Butyl acetate	43	7.619	7.618	0.001	97	4632	1.00	0.9863	
88 Chlorodibromomethane	129	7.665	7.664	0.001	95	2289	1.00	0.9452	
89 Ethylene Dibromide	107	7.813	7.812	0.001	95	2334	1.00	0.9856	
* 90 Chlorobenzene-d5	117	8.361	8.360	0.001	90	305014	50.0	50.0	
91 Chlorobenzene	112	8.395	8.394	0.001	97	6107	1.00	0.99	
92 Ethylbenzene	106	8.498	8.497	0.001	99	3385	1.00	1.01	
93 1,1,1,2-Tetrachloroethane	131	8.521	8.520	0.001	90	2059	1.00	0.9600	
94 m-Xylene & p-Xylene	106	8.658	8.657	0.001	0	4994	1.00	1.17	
96 o-Xylene	106	9.183	9.182	0.001	94	4384	1.00	1.06	
95 n-Butyl acrylate	73	9.183	9.182	0.001	95	2405	1.00	1.05	
97 Styrene	104	9.217	9.216	0.001	92	6740	1.00	0.9470	
98 Amyl acetate (mixed isomer	43	9.446	9.445	0.001	90	5453	1.00	0.9849	
99 Bromoform	173	9.457	9.456	0.001	86	1433	1.00	0.9284	
100 Isopropylbenzene	105	9.583	9.582	0.001	97	9813	1.00	0.9881	
$ 101 4-Bromofluorobenzene	174	9.788	9.787	0.001	85	106531	50.0	49.0	
102 Bromobenzene	156	9.914	9.913	0.001	95	2567	1.00	1.00	
103 1,1,2,2-Tetrachloroethane	83	9.971	9.970	0.001	99	3265	1.00	1.03	
104 N-Propylbenzene	91	9.982	9.981	0.001	98	12157	1.00	1.03	
105 1,2,3-Trichloropropane	110	10.016	10.004	0.012	94	853	1.00	1.05	
106 trans-1,4-Dichloro-2-buten	53	10.028	10.027	0.001	76	1015	1.00	0.99	
107 2-Chlorotoluene	91	10.074	10.084	-0.010	96	8987	1.00	1.04	
108 4-Ethyltoluene	105	10.085	10.084	0.001	98	11965	1.00	1.17	
109 1,3,5-Trimethylbenzene	105	10.142	10.153	-0.011	90	9312	1.00	1.08	
110 4-Chlorotoluene	91	10.176	10.187	-0.011	98	8235	1.00	1.02	
111 Butyl Methacrylate	87	10.245	10.244	0.001	96	3315	1.00	0.9534	
112 tert-Butylbenzene	119	10.405	10.404	0.001	90	6556	1.00	1.01	
113 1,2,4-Trimethylbenzene	105	10.450	10.449	0.001	98	10682	1.00	1.16	
114 sec-Butylbenzene	105	10.564	10.564	0.000	98	9298	1.00	1.00	
115 4-Isopropyltoluene	119	10.679	10.678	0.001	97	7651	1.00	0.9883	
116 1,3-Dichlorobenzene	146	10.679	10.678	0.001	73	4226	1.00	0.9847	
* 117 1,4-Dichlorobenzene-d4	152	10.736	10.735	0.001	98	151430	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.747	10.746	0.001	91	4513	1.00	1.00	
134 1,2,3-Trimethylbenzene	105	10.759	10.769	-0.010	97	9950	1.00	1.06	
119 Benzyl chloride	91	10.861	10.860	0.001	98	5496	1.00	0.9832	
120 2,3-Dihydroindene	117	10.907	10.906	0.001	95	9491	1.00	1.06	
121 p-Diethylbenzene	119	10.941	10.940	0.001	90	4189	1.00	0.9654	
122 n-Butylbenzene	92	10.964	10.963	0.001	98	4024	1.00	1.00	
123 1,2-Dichlorobenzene	146	11.010	11.009	0.001	93	4481	1.00	1.01	
124 1,2,4,5-Tetramethylbenzene	119	11.444	11.443	0.001	97	8180	1.00	1.03	
125 1,2-Dibromo-3-Chloropropan	155	11.524	11.511	0.013	91	443	1.00	1.02	
126 1,3,5-Trichlorobenzene	180	11.603	11.591	0.012	94	2730	1.00	0.99	
127 1,2,4-Trichlorobenzene	180	11.980	11.979	0.001	93	2438	1.00	0.9797	
128 Hexachlorobutadiene	225	12.037	12.036	0.001	90	929	1.00	1.01	
129 Naphthalene	128	12.140	12.139	0.001	98	8439	1.00	1.18	
130 1,2,3-Trichlorobenzene	180	12.300	12.299	0.001	90	1840	1.00	0.9169	
S 131 1,2-Dichloroethene, Total	100				0		2.00	2.03	
S 132 Xylenes, Total	100				0		2.00	2.23	
S 133 Total BTEX	1				0		5.00	5.24	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

Ethanol mix_00016	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
GAS Hi_00260	Amount Added:	1.00	Units: uL	
14DIOXINTER_00085	Amount Added:	30.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 28-Jun-2018 14:56:16 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71644.D

Injection Date: 26-Jun-2018 21:41:30 Instrument ID: CVOAMS8 Operator ID:

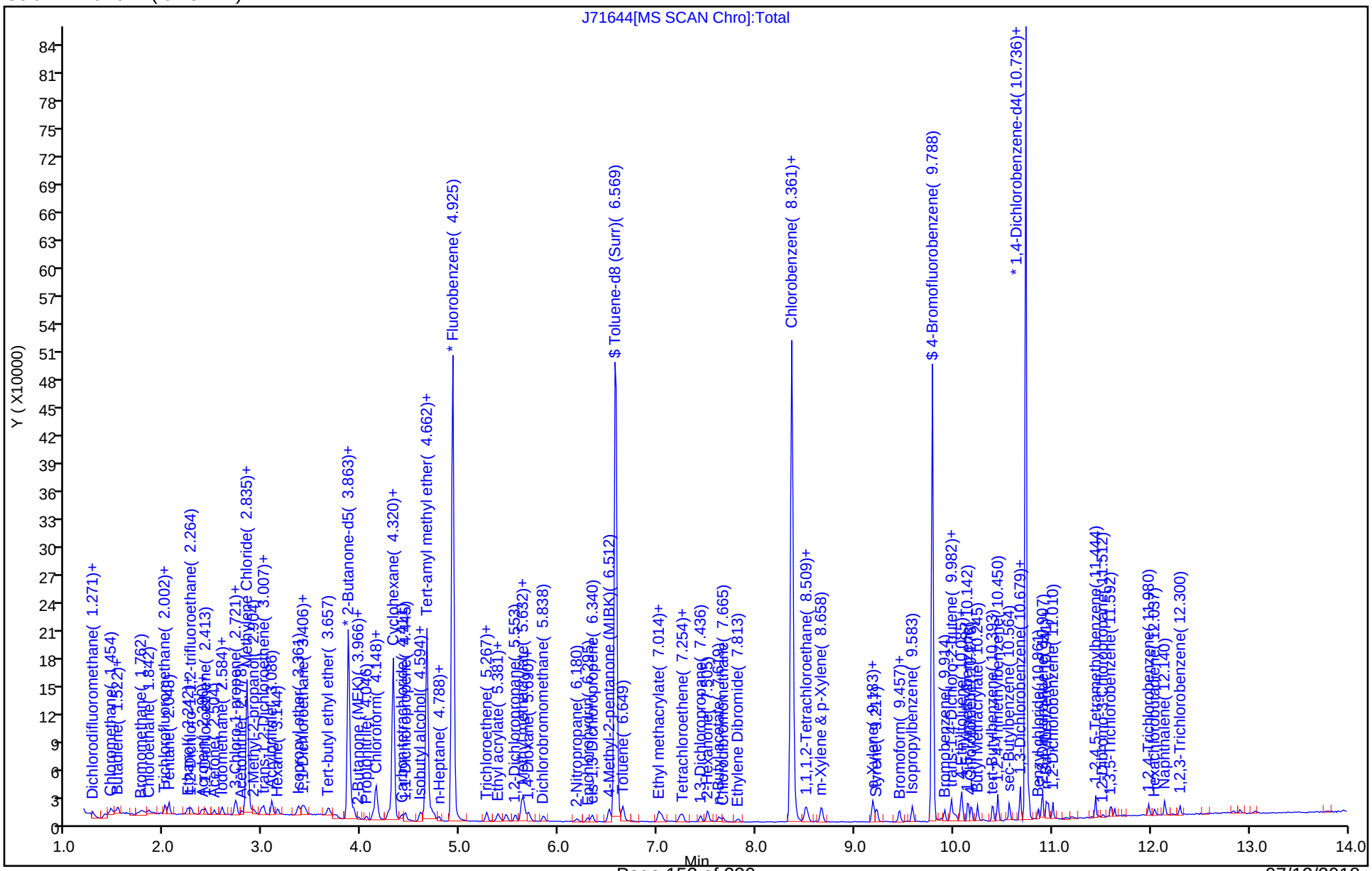
Lims ID: STD1 Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

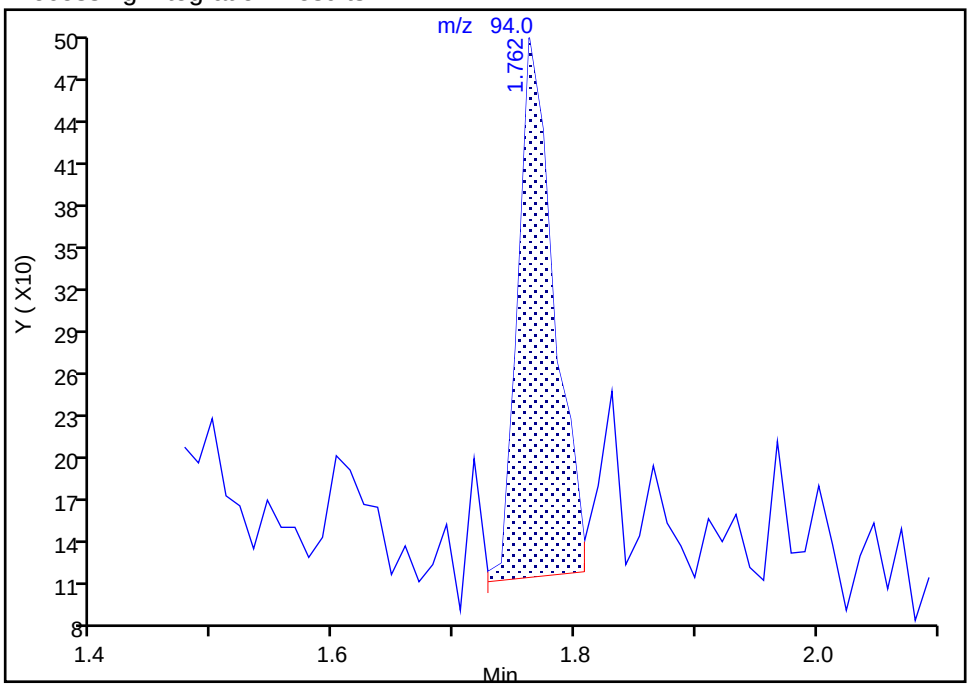
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71644.D
Injection Date: 26-Jun-2018 21:41:30 Instrument ID: CVOAMS8
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

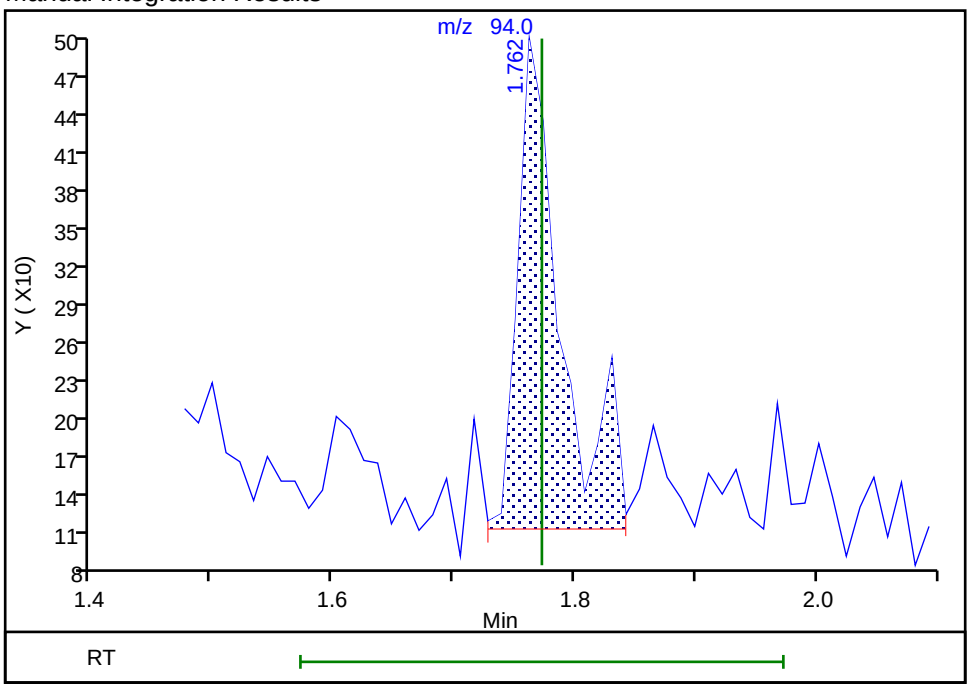
Processing Integration Results

RT: 1.76
Area: 786
Amount: 0.580265
Amount Units: ug/l



Manual Integration Results

RT: 1.76
Area: 943
Amount: 0.696235
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:38:21
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

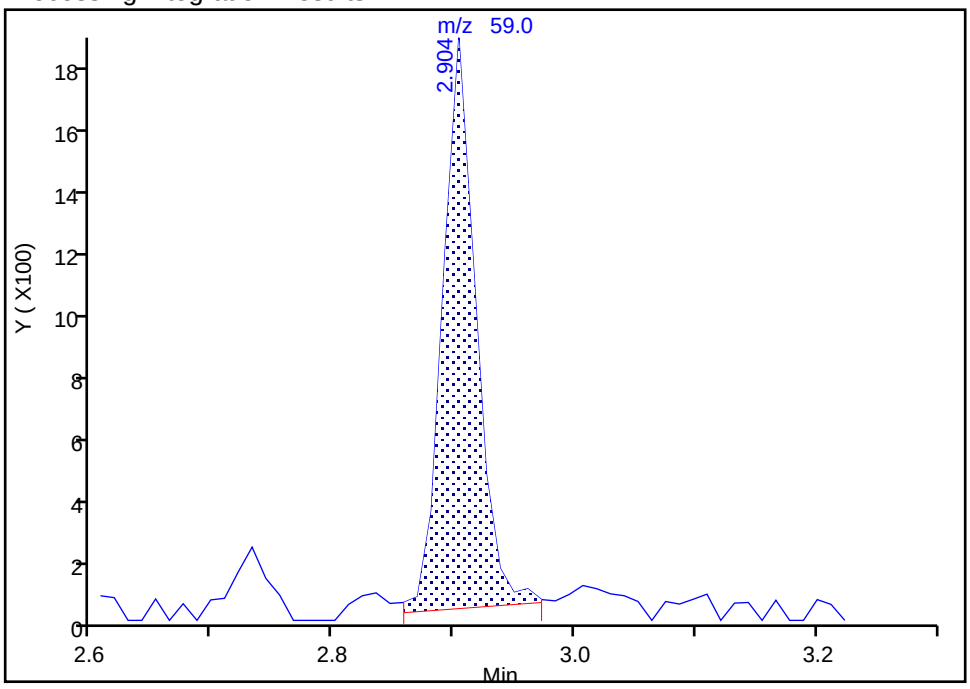
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71644.D
Injection Date: 26-Jun-2018 21:41:30 Instrument ID: CVOAMS8
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

28 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

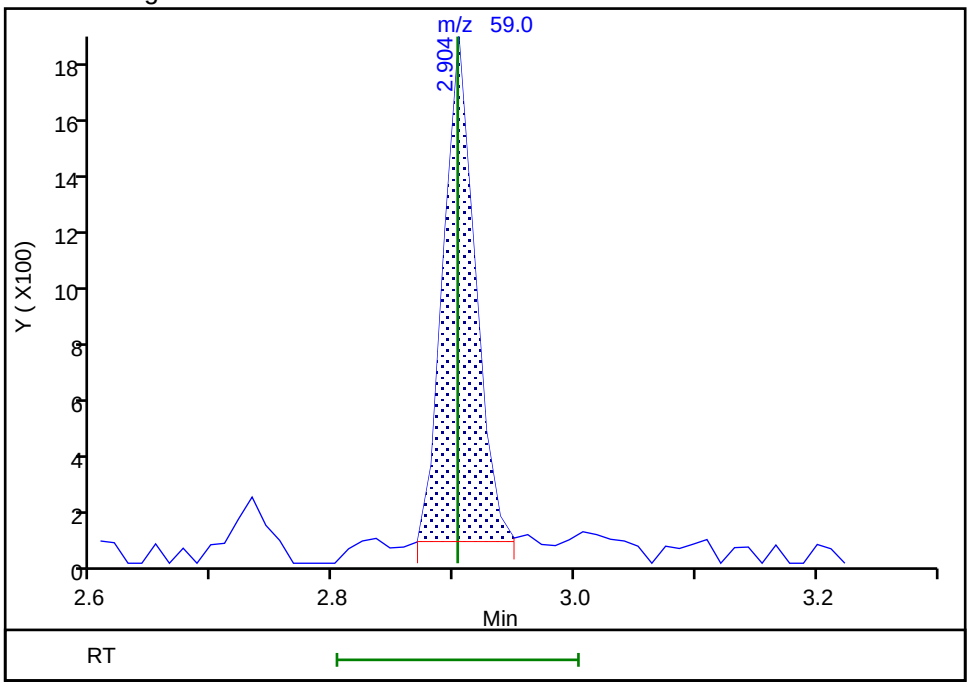
Processing Integration Results

RT: 2.90
Area: 3446
Amount: 16.216570
Amount Units: ug/l



Manual Integration Results

RT: 2.90
Area: 3185
Amount: 14.988116
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:35:43
Audit Action: Manually Integrated Audit Reason: Baseline

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71645.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 26-Jun-2018 22:08:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074417-005
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:56:29 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boykink Date: 26-Jun-2018 22:57:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.246	1.247	-0.001	53	1212	5.00	4.48	
2 Dichlorodifluoromethane	85	1.269	1.270	-0.001	100	12727	5.00	4.73	
3 Chloromethane	50	1.440	1.442	-0.002	98	16626	5.00	4.70	
4 Vinyl chloride	62	1.509	1.510	-0.001	98	14644	5.00	4.94	
5 Butadiene	54	1.532	1.533	-0.001	96	12788	5.00	4.82	
6 Bromomethane	94	1.760	1.773	-0.013	97	3320	5.00	2.43	M
7 Chloroethane	64	1.840	1.841	-0.001	98	6555	5.00	4.64	
8 Dichlorofluoromethane	67	2.000	2.001	-0.001	98	21376	5.00	5.20	
9 Trichlorofluoromethane	101	2.011	2.012	-0.001	98	16417	5.00	5.26	
10 Pentane	72	2.045	2.047	-0.002	95	2658	10.0	10.2	
11 Ethanol	46	2.194	2.195	-0.001	95	2513	200.0	172.5	
12 Ethyl ether	59	2.228	2.229	-0.001	96	9511	5.00	4.96	
13 2-Methyl-1,3-butadiene	53	2.240	2.241	-0.001	93	9398	5.00	4.98	a
14 1,2-Dichloro-1,1,2-trifluo	117	2.274	2.275	-0.001	98	8091	5.00	5.27	
15 1,1,2-Trichloro-1,2,2-trif	101	2.377	2.378	-0.001	92	9158	5.00	5.21	
16 Acrolein	56	2.388	2.389	-0.001	96	7719	20.0	18.6	
17 1,1-Dichloroethene	96	2.411	2.412	-0.001	94	8773	5.00	5.10	
18 Acetone	43	2.502	2.503	-0.001	84	19631	25.0	25.1	
19 Iodomethane	142	2.559	2.560	-0.001	100	4675	5.00	2.13	
20 Carbon disulfide	76	2.582	2.583	-0.001	100	36265	5.00	5.03	
21 Isopropyl alcohol	45	2.594	2.595	-0.001	99	8113	50.0	50.0	
22 3-Chloro-1-propene	76	2.708	2.709	-0.001	89	6421	5.00	5.10	
23 Cyclopentene	67	2.731	2.732	-0.002	94	28439	5.00	5.32	
24 Methyl acetate	43	2.731	2.732	-0.002	99	20878	10.0	9.97	
25 Acetonitrile	41	2.788	2.789	-0.001	100	19814	50.0	50.5	
* 27 TBA-d9 (IS)	65	2.833	2.834	-0.001	0	158422	1000.0	1000.0	
26 Methylene Chloride	84	2.833	2.834	-0.001	97	11359	5.00	4.95	
28 2-Methyl-2-propanol	59	2.902	2.903	-0.001	99	10961	50.0	49.1	
29 Methyl tert-butyl ether	73	2.982	2.983	-0.001	98	31333	5.00	4.92	
30 trans-1,2-Dichloroethene	96	3.005	3.006	-0.002	97	10565	5.00	5.21	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.084	3.086	-0.002	93	49601	50.0	46.0	
32 Hexane	57	3.153	3.154	-0.001	93	11894	5.00	4.44	
33 Isopropyl ether	45	3.358	3.360	-0.002	98	43877	5.00	4.90	
34 1,1-Dichloroethane	63	3.393	3.394	-0.001	99	22526	5.00	5.00	
35 Vinyl acetate	43	3.404	3.405	-0.001	100	41837	10.0	7.63	
36 2-Chloro-1,3-butadiene	88	3.427	3.428	-0.001	95	8632	5.00	4.85	
37 Tert-butyl ethyl ether	59	3.667	3.656	0.011	86	34955	5.00	4.85	
* 39 2-Butanone-d5	46	3.861	3.862	-0.001	0	249938	250.0	250.0	
38 2,2-Dichloropropane	79	3.861	3.862	-0.001	94	5372	5.00	4.74	
40 cis-1,2-Dichloroethene	96	3.895	3.896	-0.001	93	12463	5.00	4.86	
42 Ethyl acetate	70	3.918	3.919	-0.001	94	2425	10.0	9.50	
41 2-Butanone (MEK)	72	3.918	3.919	-0.001	95	6264	25.0	26.1	
43 Methyl acrylate	55	3.975	3.965	0.010	98	9690	5.00	4.36	
44 Propionitrile	54	4.055	4.045	0.010	97	19807	50.0	50.3	
45 Tetrahydrofuran	72	4.112	4.113	-0.001	90	3026	10.0	9.76	
46 Chlorobromomethane	128	4.112	4.113	-0.001	96	5281	5.00	4.74	
47 Methacrylonitrile	67	4.146	4.147	-0.001	96	46901	50.0	47.2	
48 Chloroform	83	4.169	4.170	-0.001	98	20878	5.00	4.91	
49 Cyclohexane	84	4.272	4.273	-0.001	97	16227	5.00	5.35	
50 1,1,1-Trichloroethane	97	4.295	4.296	-0.001	98	17881	5.00	4.99	
$ 51 Dibromofluoromethane (Surr	113	4.317	4.319	-0.002	95	95422	50.0	50.0	
52 Carbon tetrachloride	117	4.409	4.410	-0.001	97	14373	5.00	4.95	
53 1,1-Dichloropropene	75	4.443	4.444	-0.001	93	16648	5.00	4.87	
54 Isooctane	57	4.603	4.593	0.010	73	26027	5.00	4.88	
58 Isobutyl alcohol	43	4.591	4.593	-0.002	80	19238	125.0	122.8	
55 Benzene	78	4.637	4.638	-0.001	96	48273	5.00	4.89	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.660	4.661	-0.001	0	127351	50.0	49.6	
59 Isopropyl acetate	43	4.706	4.707	-0.001	93	33024	5.00	4.49	
57 Tert-amyl methyl ether	87	4.706	4.707	-0.001	76	8615	5.00	4.67	
60 1,2-Dichloroethane	62	4.740	4.730	0.010	97	18000	5.00	4.79	
61 n-Heptane	57	4.786	4.787	-0.001	95	5254	5.00	4.54	
* 62 Fluorobenzene	96	4.923	4.924	-0.001	97	416809	50.0	50.0	
63 n-Butanol	56	5.254	5.255	-0.001	95	8788	125.0	119.0	
64 Trichloroethene	95	5.265	5.266	-0.001	94	12501	5.00	5.00	
65 Methylcyclohexane	83	5.379	5.380	-0.001	95	17621	5.00	5.26	
66 Ethyl acrylate	55	5.402	5.403	-0.001	98	29428	5.00	4.65	
67 1,2-Dichloropropane	63	5.562	5.563	-0.001	89	13533	5.00	4.82	
* 68 1,4-Dioxane-d8	96	5.630	5.631	-0.001	0	23582	1000.0	1000.0	
69 Methyl methacrylate	100	5.642	5.643	-0.001	94	5005	10.0	9.03	
70 1,4-Dioxane	88	5.687	5.677	0.010	40	3211	100.0	113.8	
71 Dibromomethane	93	5.687	5.689	-0.002	91	8058	5.00	4.88	
72 n-Propyl acetate	43	5.699	5.700	-0.001	98	18950	5.00	4.76	
73 Dichlorobromomethane	83	5.836	5.837	-0.001	98	17193	5.00	4.87	
74 2-Nitropropane	41	6.178	6.179	-0.001	99	7163	10.0	9.34	
76 Epichlorohydrin	57	6.293	6.294	-0.001	99	15826	100.0	103.3	
77 cis-1,3-Dichloropropene	75	6.338	6.339	-0.001	98	19232	5.00	4.61	
78 4-Methyl-2-pentanone (MIBK	43	6.509	6.511	-0.002	98	57897	25.0	24.6	
$ 79 Toluene-d8 (Surr)	98	6.578	6.579	-0.001	98	368282	50.0	49.8	
80 Toluene	91	6.646	6.648	-0.002	93	49999	5.00	4.94	
81 trans-1,3-Dichloropropene	75	7.012	7.013	-0.001	97	18035	5.00	4.60	
82 Ethyl methacrylate	69	7.046	7.047	-0.001	92	14519	5.00	4.62	
83 1,1,2-Trichloroethane	83	7.229	7.230	-0.001	95	9812	5.00	4.68	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.252	7.253	-0.001	94	10067	5.00	4.86	
85 1,3-Dichloropropane	76	7.434	7.435	-0.001	98	18294	5.00	4.72	
86 2-Hexanone	58	7.503	7.504	-0.001	98	24073	25.0	25.7	
87 n-Butyl acetate	43	7.628	7.618	0.010	97	21790	5.00	4.67	
88 Chlorodibromomethane	129	7.663	7.664	-0.001	97	11316	5.00	4.70	
89 Ethylene Dibromide	107	7.811	7.812	-0.001	98	11211	5.00	4.76	
* 90 Chlorobenzene-d5	117	8.359	8.360	-0.001	90	303265	50.0	50.0	
91 Chlorobenzene	112	8.405	8.394	0.011	93	29997	5.00	4.90	
92 Ethylbenzene	106	8.496	8.497	-0.001	99	16338	5.00	4.90	
93 1,1,1,2-Tetrachloroethane	131	8.519	8.520	-0.001	95	10281	5.00	4.82	
94 m-Xylene & p-Xylene	106	8.667	8.657	0.010	0	20444	5.00	4.81	
95 n-Butyl acrylate	73	9.181	9.182	-0.001	96	10354	5.00	4.56	
96 o-Xylene	106	9.181	9.182	-0.001	93	20313	5.00	4.95	
97 Styrene	104	9.227	9.216	0.011	94	34415	5.00	4.86	
98 Amyl acetate (mixed isomer	43	9.455	9.445	0.010	89	26776	5.00	4.79	
99 Bromoform	173	9.455	9.456	-0.001	93	7140	5.00	4.65	
100 Isopropylbenzene	105	9.581	9.582	-0.001	97	49032	5.00	4.97	
$ 101 4-Bromofluorobenzene	174	9.786	9.787	-0.001	85	107340	50.0	49.7	
102 Bromobenzene	156	9.912	9.913	-0.001	96	12887	5.00	4.98	
103 1,1,2,2-Tetrachloroethane	83	9.969	9.970	-0.001	98	15387	5.00	4.80	
104 N-Propylbenzene	91	9.980	9.981	-0.001	98	59141	5.00	4.96	
105 1,2,3-Trichloropropane	110	10.014	10.004	0.010	95	4083	5.00	4.96	
106 trans-1,4-Dichloro-2-buten	53	10.026	10.027	-0.001	80	4610	5.00	4.46	
108 4-Ethyltoluene	105	10.083	10.084	-0.001	97	51524	5.00	4.99	
107 2-Chlorotoluene	91	10.083	10.084	-0.001	96	43475	5.00	4.97	
109 1,3,5-Trimethylbenzene	105	10.151	10.153	-0.002	93	43597	5.00	5.00	
110 4-Chlorotoluene	91	10.186	10.187	-0.001	98	39642	5.00	4.84	
111 Butyl Methacrylate	87	10.243	10.244	-0.001	96	16887	5.00	4.81	
112 tert-Butylbenzene	119	10.403	10.404	-0.001	92	32481	5.00	4.97	
113 1,2,4-Trimethylbenzene	105	10.448	10.449	-0.001	98	45759	5.00	4.92	
114 sec-Butylbenzene	105	10.562	10.564	-0.002	99	46788	5.00	4.99	
116 1,3-Dichlorobenzene	146	10.677	10.678	-0.001	74	21367	5.00	4.93	
115 4-Isopropyltoluene	119	10.677	10.678	-0.001	97	39050	5.00	4.99	
* 117 1,4-Dichlorobenzene-d4	152	10.734	10.735	-0.001	98	152990	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.745	10.746	-0.001	91	22204	5.00	4.89	
134 1,2,3-Trimethylbenzene	105	10.768	10.769	-0.001	99	48295	5.00	5.07	
119 Benzyl chloride	91	10.859	10.860	-0.001	98	21616	5.00	3.83	
120 2,3-Dihydroindene	117	10.905	10.906	-0.001	94	46537	5.00	5.13	
121 p-Diethylbenzene	119	10.939	10.940	-0.001	90	21908	5.00	5.00	
122 n-Butylbenzene	92	10.962	10.963	-0.001	97	19657	5.00	4.83	
123 1,2-Dichlorobenzene	146	11.008	11.009	-0.001	94	21661	5.00	4.85	
124 1,2,4,5-Tetramethylbenzene	119	11.442	11.443	-0.001	97	40271	5.00	5.00	
125 1,2-Dibromo-3-Chloropropan	155	11.521	11.511	0.010	93	2057	5.00	4.71	
126 1,3,5-Trichlorobenzene	180	11.590	11.591	-0.001	95	13157	5.00	4.73	
127 1,2,4-Trichlorobenzene	180	11.978	11.979	-0.001	94	12175	5.00	4.84	
128 Hexachlorobutadiene	225	12.035	12.036	-0.001	92	4610	5.00	4.98	
129 Naphthalene	128	12.138	12.139	-0.001	99	33853	5.00	4.68	
130 1,2,3-Trichlorobenzene	180	12.298	12.299	-0.001	94	9368	5.00	4.62	
S 131 1,2-Dichloroethene, Total	100				0		10.0	10.1	
S 132 Xylenes, Total	100				0		10.0	9.76	
S 133 Total BTEX	1				0		25.0	24.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00260	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
Ethanol mix_00016	Amount Added:	1.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

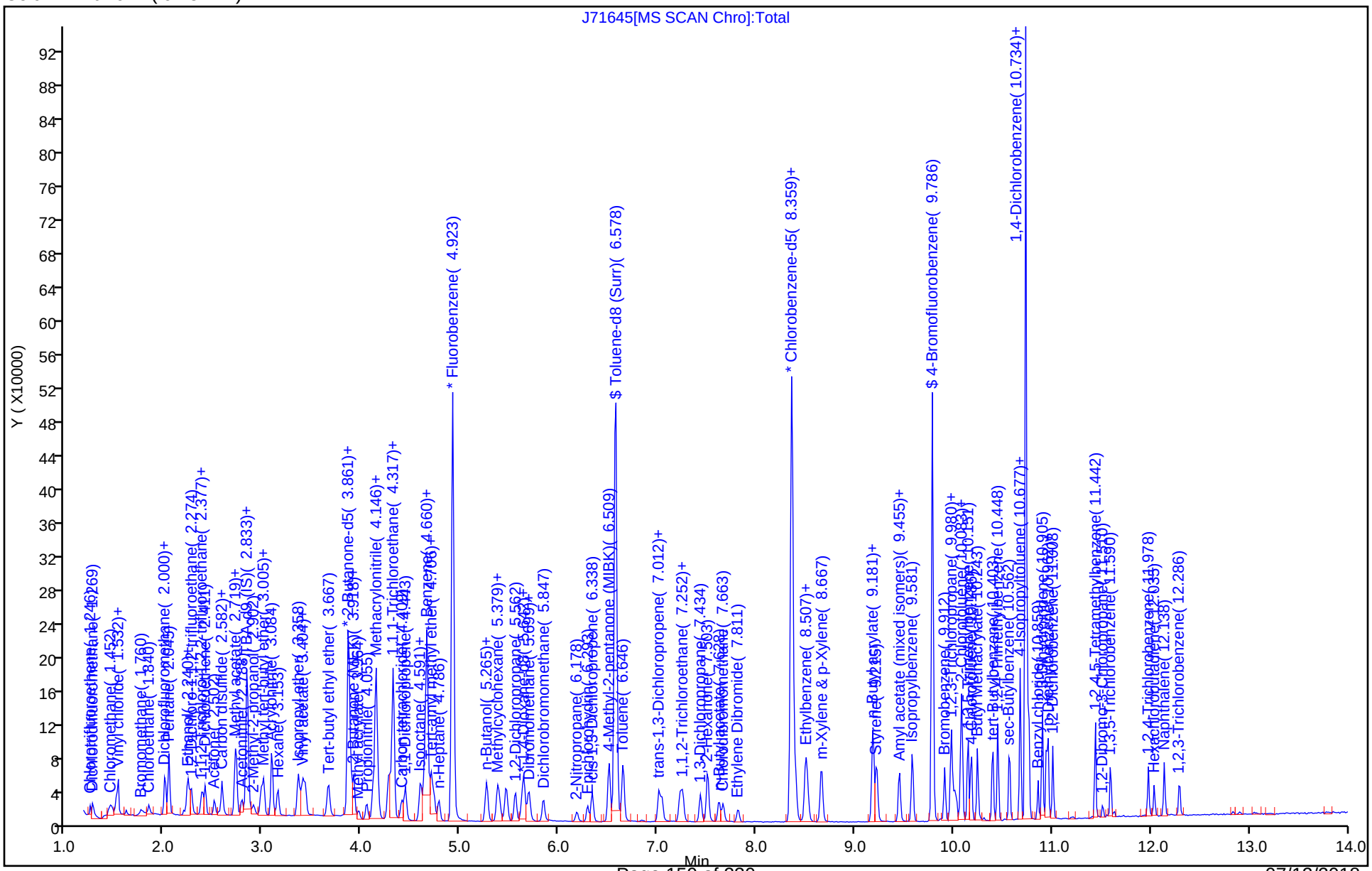
Report Date: 28-Jun-2018 14:56:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71645.D

Injection Date:	26-Jun-2018 22:08:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

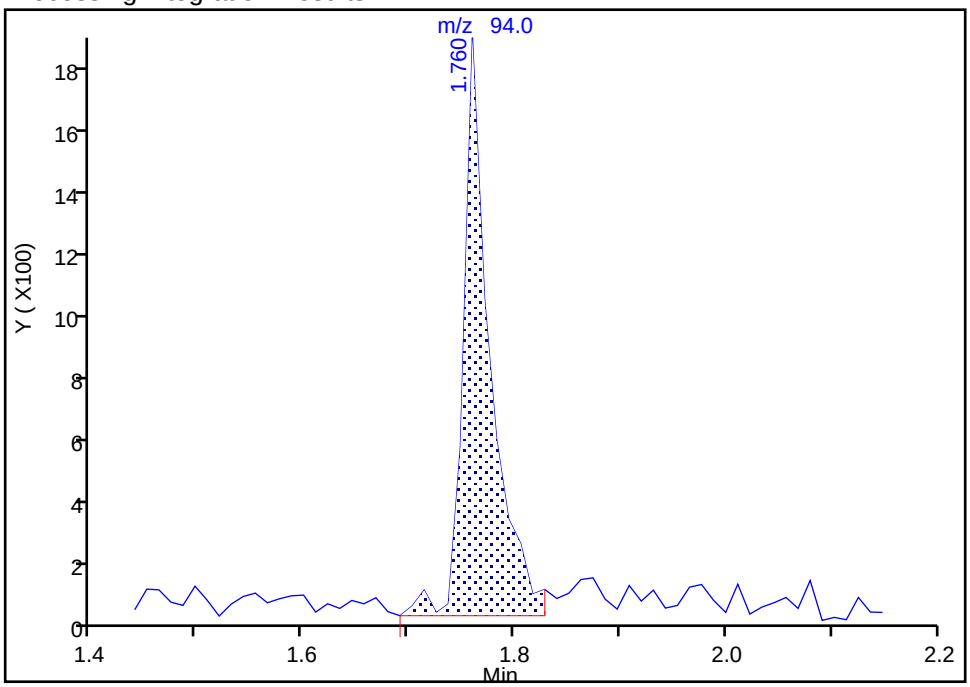
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71645.D
Injection Date: 26-Jun-2018 22:08:30 Instrument ID: CVOAMS8
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

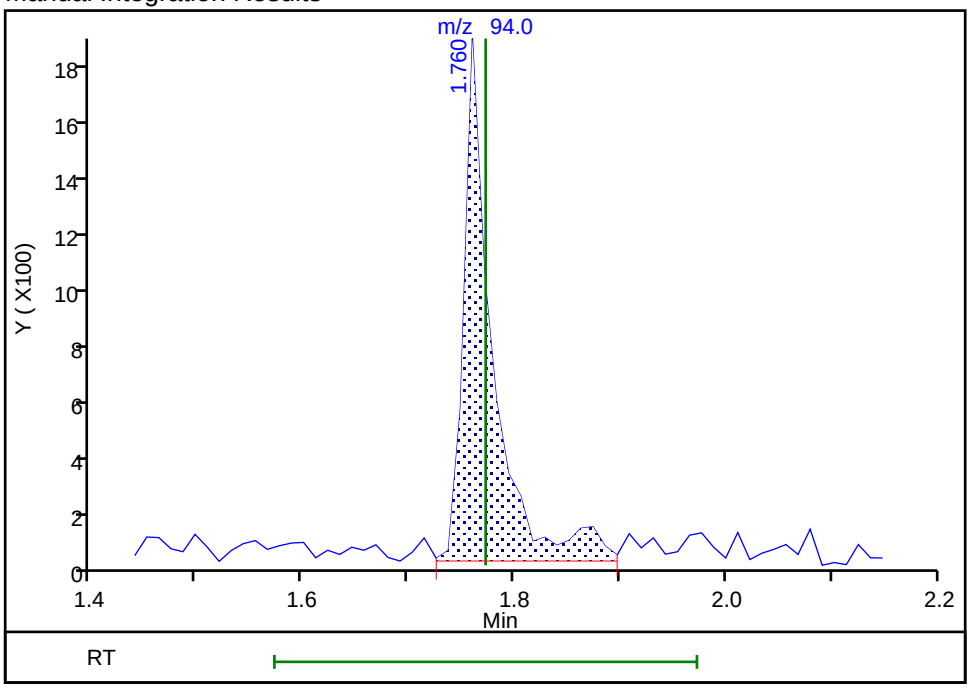
Processing Integration Results

RT: 1.76
Area: 3110
Amount: 2.272672
Amount Units: ug/l



Manual Integration Results

RT: 1.76
Area: 3320
Amount: 2.426326
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:37:29
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

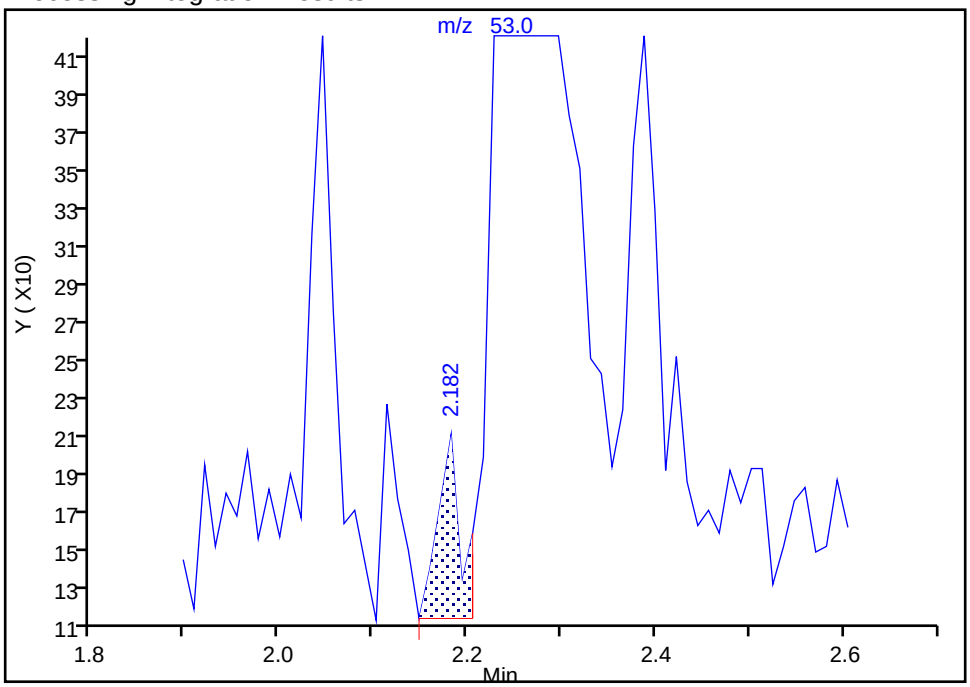
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71645.D
Injection Date: 26-Jun-2018 22:08:30 Instrument ID: CVOAMS8
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

13 2-Methyl-1,3-butadiene, CAS: 78-79-5

Signal: 1

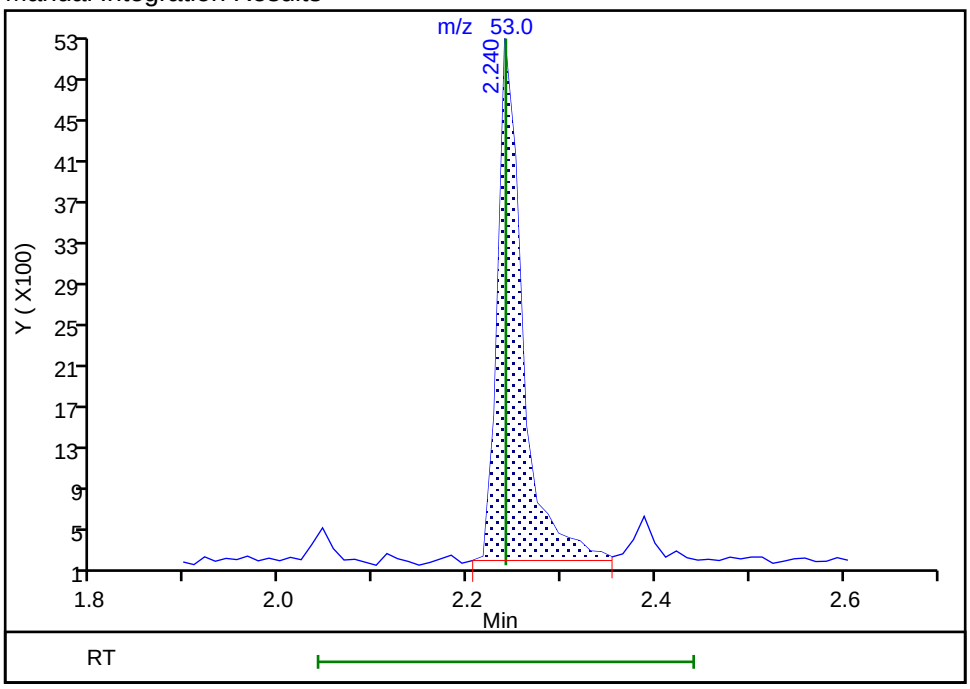
Processing Integration Results

RT: 2.18
Area: 170
Amount: 0.082189
Amount Units: ug/l



Manual Integration Results

RT: 2.24
Area: 9398
Amount: 4.983745
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:19:31
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71646.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 26-Jun-2018 22:35:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074417-006
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:56:44 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boykink Date: 26-Jun-2018 23:39:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.247	1.247	0.000	53	4742	20.0	17.6	
2 Dichlorodifluoromethane	85	1.270	1.270	0.000	100	49507	20.0	18.4	
3 Chloromethane	50	1.442	1.442	0.000	99	66316	20.0	18.8	
4 Vinyl chloride	62	1.510	1.510	0.000	99	57507	20.0	19.5	
5 Butadiene	54	1.533	1.533	0.000	96	50800	20.0	19.2	
6 Bromomethane	94	1.773	1.773	0.000	98	21304	20.0	15.8	
7 Chloroethane	64	1.841	1.841	0.000	99	29923	20.0	21.2	
8 Dichlorofluoromethane	67	2.001	2.001	0.000	99	87324	20.0	21.3	
9 Trichlorofluoromethane	101	2.012	2.012	0.000	99	65091	20.0	20.9	
10 Pentane	72	2.047	2.047	0.000	95	10024	40.0	39.6	
11 Ethanol	46	2.195	2.195	0.000	97	12020	800.0	849.1	
12 Ethyl ether	59	2.229	2.229	0.000	95	39159	20.0	20.5	
13 2-Methyl-1,3-butadiene	53	2.241	2.241	0.000	97	39925	20.0	21.2	
14 1,2-Dichloro-1,1,2-trifluo	117	2.275	2.275	0.000	98	31123	20.0	20.3	
15 1,1,2-Trichloro-1,2,2-trif	101	2.378	2.378	0.000	92	35516	20.0	20.3	
16 Acrolein	56	2.389	2.389	0.000	96	16501	40.0	40.9	
17 1,1-Dichloroethene	96	2.412	2.412	0.000	93	35564	20.0	20.7	
18 Acetone	43	2.503	2.503	0.000	85	77454	100.0	96.3	
19 Iodomethane	142	2.560	2.560	0.000	99	26469	20.0	12.1	
20 Carbon disulfide	76	2.583	2.583	0.000	100	147759	20.0	20.6	
21 Isopropyl alcohol	45	2.595	2.595	0.000	99	34068	200.0	216.1	
22 3-Chloro-1-propene	76	2.709	2.709	0.000	92	25549	20.0	20.3	
24 Methyl acetate	43	2.732	2.732	0.000	86	84010	40.0	40.3	
23 Cyclopentene	67	2.732	2.732	0.000	92	111766	20.0	21.0	
25 Acetonitrile	41	2.789	2.789	0.000	98	82259	200.0	215.9	
26 Methylene Chloride	84	2.834	2.834	0.000	73	46060	20.0	20.2	
* 27 TBA-d9 (IS)	65	2.834	2.834	0.000	0	153925	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.903	2.903	0.000	99	41123	200.0	190.2	
29 Methyl tert-butyl ether	73	2.983	2.983	0.000	97	134242	20.0	21.2	
30 trans-1,2-Dichloroethene	96	3.006	3.006	0.000	98	41902	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.086	3.086	0.000	93	212016	200.0	202.3	
32 Hexane	57	3.154	3.154	0.000	93	51609	20.0	19.3	
33 Isopropyl ether	45	3.360	3.360	0.000	97	191791	20.0	21.5	
34 1,1-Dichloroethane	63	3.394	3.394	0.000	99	94748	20.0	21.1	
35 Vinyl acetate	43	3.405	3.405	0.000	100	253242	40.0	46.4	
36 2-Chloro-1,3-butadiene	88	3.428	3.428	0.000	94	37675	20.0	21.2	
37 Tert-butyl ethyl ether	59	3.656	3.656	0.000	86	155772	20.0	21.7	
38 2,2-Dichloropropane	79	3.862	3.862	0.000	93	23910	20.0	21.2	
* 39 2-Butanone-d5	46	3.862	3.862	0.000	0	257029	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.896	3.896	0.000	93	53268	20.0	20.8	
41 2-Butanone (MEK)	72	3.919	3.919	0.000	95	25164	100.0	101.9	
42 Ethyl acetate	70	3.919	3.919	0.000	95	10289	40.0	39.2	
43 Methyl acrylate	55	3.965	3.965	0.000	99	42517	20.0	19.2	
44 Propionitrile	54	4.045	4.045	0.000	97	81424	200.0	212.8	
46 Chlorobromomethane	128	4.113	4.113	0.000	97	22956	20.0	20.7	
45 Tetrahydrofuran	72	4.113	4.113	0.000	97	12210	40.0	38.3	
47 Methacrylonitrile	67	4.147	4.147	0.000	96	208144	200.0	210.0	
48 Chloroform	83	4.170	4.170	0.000	97	89309	20.0	21.1	
49 Cyclohexane	84	4.273	4.273	0.000	96	61602	20.0	20.4	
50 1,1,1-Trichloroethane	97	4.296	4.296	0.000	98	72710	20.0	20.4	
$ 51 Dibromofluoromethane (Surr	113	4.319	4.319	0.000	95	95969	50.0	50.5	
52 Carbon tetrachloride	117	4.410	4.410	0.000	98	58631	20.0	20.3	
53 1,1-Dichloropropene	75	4.444	4.444	0.000	94	68910	20.0	20.2	
58 Isobutyl alcohol	43	4.593	4.593	0.000	82	79272	500.0	520.9	
54 Isooctane	57	4.593	4.593	0.000	74	108591	20.0	20.4	
55 Benzene	78	4.638	4.638	0.000	98	207465	20.0	20.9	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.661	4.661	0.000	0	129765	50.0	50.7	
57 Tert-amyl methyl ether	87	4.707	4.707	0.000	81	38026	20.0	20.7	
59 Isopropyl acetate	43	4.707	4.707	0.000	93	144765	20.0	19.8	
60 1,2-Dichloroethane	62	4.730	4.730	0.000	97	75962	20.0	20.3	
61 n-Heptane	57	4.787	4.787	0.000	97	23173	20.0	20.1	
* 62 Fluorobenzene	96	4.924	4.924	0.000	97	415461	50.0	50.0	
63 n-Butanol	56	5.255	5.255	0.000	93	37597	500.0	523.9	
64 Trichloroethene	95	5.266	5.266	0.000	94	49910	20.0	20.0	
65 Methylcyclohexane	83	5.380	5.380	0.000	90	67538	20.0	20.2	
66 Ethyl acrylate	55	5.403	5.403	0.000	98	125426	20.0	19.9	
67 1,2-Dichloropropane	63	5.563	5.563	0.000	89	56495	20.0	20.2	
* 68 1,4-Dioxane-d8	96	5.631	5.631	0.000	0	25213	1000.0	1000.0	
69 Methyl methacrylate	100	5.643	5.643	0.000	94	22451	40.0	40.6	
70 1,4-Dioxane	88	5.677	5.677	0.000	93	12535	400.0	415.4	
71 Dibromomethane	93	5.689	5.689	0.000	92	34732	20.0	21.1	
72 n-Propyl acetate	43	5.700	5.700	0.000	99	76865	20.0	19.4	
73 Dichlorobromomethane	83	5.837	5.837	0.000	99	71909	20.0	20.4	
74 2-Nitropropane	41	6.179	6.179	0.000	98	30106	40.0	40.4	
76 Epichlorohydrin	57	6.294	6.294	0.000	100	64885	400.0	427.1	
77 cis-1,3-Dichloropropene	75	6.339	6.339	0.000	97	85688	20.0	20.4	
78 4-Methyl-2-pentanone (MIBK	43	6.511	6.511	0.000	98	259243	100.0	107.0	
$ 79 Toluene-d8 (Surr)	98	6.579	6.579	0.000	98	369997	50.0	49.8	
80 Toluene	91	6.648	6.648	0.000	93	207236	20.0	20.4	
81 trans-1,3-Dichloropropene	75	7.013	7.013	0.000	98	78515	20.0	20.0	
82 Ethyl methacrylate	69	7.047	7.047	0.000	92	61344	20.0	19.6	
83 1,1,2-Trichloroethane	83	7.230	7.230	0.000	95	41317	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.253	7.253	0.000	94	43039	20.0	20.7	
85 1,3-Dichloropropane	76	7.435	7.435	0.000	98	78898	20.0	20.3	
86 2-Hexanone	58	7.504	7.504	0.000	99	104552	100.0	108.4	
87 n-Butyl acetate	43	7.618	7.618	0.000	97	97412	20.0	20.8	
88 Chlorodibromomethane	129	7.664	7.664	0.000	97	48725	20.0	20.2	
89 Ethylene Dibromide	107	7.812	7.812	0.000	98	48010	20.0	20.3	
* 90 Chlorobenzene-d5	117	8.360	8.360	0.000	91	304447	50.0	50.0	
91 Chlorobenzene	112	8.394	8.394	0.000	91	125537	20.0	20.4	
92 Ethylbenzene	106	8.497	8.497	0.000	99	68834	20.0	20.6	
93 1,1,1,2-Tetrachloroethane	131	8.520	8.520	0.000	93	44560	20.0	20.8	
94 m-Xylene & p-Xylene	106	8.657	8.657	0.000	0	84576	20.0	19.8	
96 o-Xylene	106	9.182	9.182	0.000	92	85161	20.0	20.7	
95 n-Butyl acrylate	73	9.182	9.182	0.000	72	46873	20.0	20.6	
97 Styrene	104	9.216	9.216	0.000	92	149663	20.0	21.1	
98 Amyl acetate (mixed isomer	43	9.445	9.445	0.000	88	120272	20.0	21.1	
99 Bromoform	173	9.456	9.456	0.000	95	31823	20.0	20.7	
100 Isopropylbenzene	105	9.582	9.582	0.000	97	201398	20.0	20.3	
$ 101 4-Bromofluorobenzene	174	9.787	9.787	0.000	85	109318	50.0	50.4	
102 Bromobenzene	156	9.913	9.913	0.000	95	53883	20.0	20.4	
103 1,1,2,2-Tetrachloroethane	83	9.970	9.970	0.000	99	68313	20.0	20.9	
104 N-Propylbenzene	91	9.981	9.981	0.000	98	249480	20.0	20.5	
105 1,2,3-Trichloropropane	110	10.004	10.004	0.000	96	17356	20.0	20.6	
106 trans-1,4-Dichloro-2-buten	53	10.027	10.027	0.000	89	21130	20.0	20.0	
107 2-Chlorotoluene	91	10.084	10.084	0.000	96	183327	20.0	20.5	
108 4-Ethyltoluene	105	10.084	10.084	0.000	97	210507	20.0	20.0	
109 1,3,5-Trimethylbenzene	105	10.153	10.153	0.000	92	181427	20.0	20.4	
110 4-Chlorotoluene	91	10.187	10.187	0.000	98	175121	20.0	21.0	
111 Butyl Methacrylate	87	10.244	10.244	0.000	96	73616	20.0	20.5	
112 tert-Butylbenzene	119	10.404	10.404	0.000	91	139052	20.0	20.9	
113 1,2,4-Trimethylbenzene	105	10.449	10.449	0.000	98	193902	20.0	20.4	
114 sec-Butylbenzene	105	10.564	10.564	0.000	99	199287	20.0	20.8	
115 4-Isopropyltoluene	119	10.678	10.678	0.000	97	169501	20.0	21.2	
116 1,3-Dichlorobenzene	146	10.678	10.678	0.000	76	93425	20.0	21.1	
* 117 1,4-Dichlorobenzene-d4	152	10.735	10.735	0.000	96	156193	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.746	10.746	0.000	91	97387	20.0	21.0	
134 1,2,3-Trimethylbenzene	105	10.769	10.769	0.000	99	205094	20.0	21.1	
119 Benzyl chloride	91	10.860	10.860	0.000	98	123195	20.0	21.4	
120 2,3-Dihydroindene	117	10.906	10.906	0.000	94	195646	20.0	21.1	
121 p-Diethylbenzene	119	10.940	10.940	0.000	91	94355	20.0	21.1	
122 n-Butylbenzene	92	10.963	10.963	0.000	98	84707	20.0	20.4	
123 1,2-Dichlorobenzene	146	11.009	11.009	0.000	94	95236	20.0	20.9	
124 1,2,4,5-Tetramethylbenzene	119	11.443	11.443	0.000	97	173293	20.0	21.1	
125 1,2-Dibromo-3-Chloropropan	155	11.511	11.511	0.000	92	8652	20.0	19.4	
126 1,3,5-Trichlorobenzene	180	11.591	11.591	0.000	95	58764	20.0	20.7	
127 1,2,4-Trichlorobenzene	180	11.979	11.979	0.000	94	51996	20.0	20.3	
128 Hexachlorobutadiene	225	12.036	12.036	0.000	92	19035	20.0	20.1	
129 Naphthalene	128	12.139	12.139	0.000	99	144482	20.0	19.6	
130 1,2,3-Trichlorobenzene	180	12.299	12.299	0.000	95	42082	20.0	20.3	
S 131 1,2-Dichloroethene, Total	100				0		40.0	41.6	
S 132 Xylenes, Total	100				0		40.0	40.5	
S 133 Total BTEX	1				0		100.0	102.4	

Reagents:

GAS Hi_00260	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	2.00	Units: uL	
MIX I Hi_00095	Amount Added:	2.00	Units: uL	
Ethanol mix_00016	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 28-Jun-2018 14:56:46 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71646.D

Injection Date: 26-Jun-2018 22:35:30 Instrument ID: CVOAMS8 Operator ID:

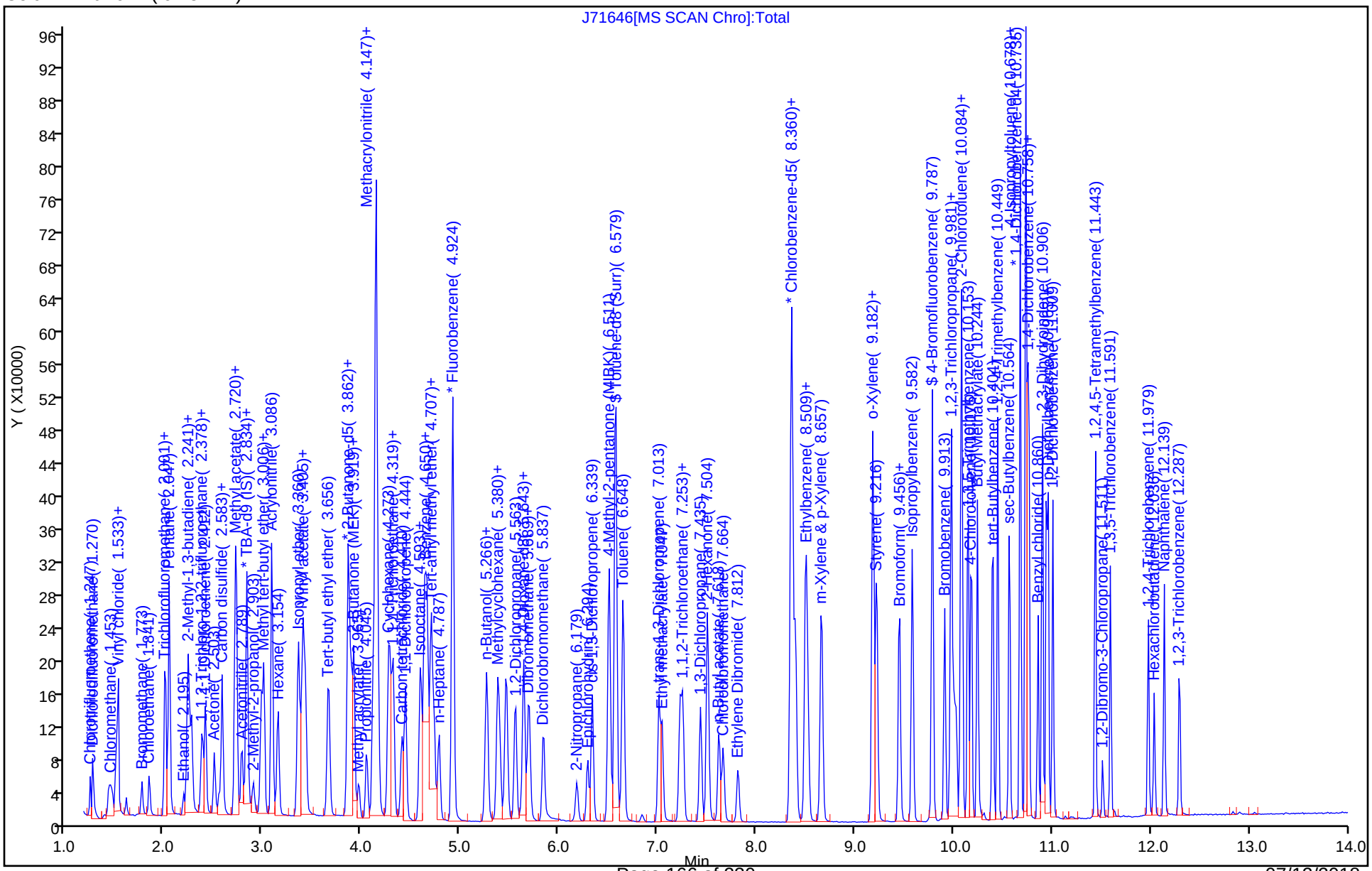
Lims ID: STD20 Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 5

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71647.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 26-Jun-2018 23:02:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074417-007
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:45:21 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.246	1.247	-0.001	55	12873	50.0	47.0	
2 Dichlorodifluoromethane	85	1.269	1.270	-0.001	100	117887	50.0	43.3	
3 Chloromethane	50	1.440	1.442	-0.002	100	160847	50.0	44.9	
4 Vinyl chloride	62	1.508	1.510	-0.002	99	138860	50.0	46.3	
5 Butadiene	54	1.531	1.533	-0.002	96	120960	50.0	45.0	
6 Bromomethane	94	1.771	1.773	-0.002	99	45775	50.0	34.0	
7 Chloroethane	64	1.839	1.841	-0.002	98	71987	50.0	50.3	
8 Dichlorofluoromethane	67	1.999	2.001	-0.002	99	209526	50.0	50.3	
9 Trichlorofluoromethane	101	2.011	2.012	-0.001	99	151251	50.0	47.9	
10 Pentane	72	2.045	2.047	-0.002	95	24770	100.0	91.7	
11 Ethanol	46	2.193	2.195	-0.002	98	29578	2000.0	1957.6	
12 Ethyl ether	59	2.228	2.229	-0.001	96	96053	50.0	49.5	
13 2-Methyl-1,3-butadiene	53	2.239	2.241	-0.002	95	98255	50.0	51.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.273	2.275	-0.002	97	73066	50.0	47.0	
15 1,1,2-Trichloro-1,2,2-trif	101	2.376	2.378	-0.002	92	86670	50.0	48.7	
16 Acrolein	56	2.387	2.389	-0.002	98	41957	100.0	97.4	
17 1,1-Dichloroethene	96	2.410	2.412	-0.002	93	86221	50.0	49.5	
18 Acetone	43	2.502	2.503	-0.001	85	194501	250.0	226.5	
19 Iodomethane	142	2.559	2.560	-0.001	99	82470	50.0	37.4	
20 Carbon disulfide	76	2.581	2.583	-0.002	100	363472	50.0	49.9	
21 Isopropyl alcohol	45	2.593	2.595	-0.002	99	85200	500.0	506.3	
22 3-Chloro-1-propene	76	2.718	2.709	0.009	87	62798	50.0	49.3	
24 Methyl acetate	43	2.730	2.732	-0.002	99	210679	100.0	99.5	
23 Cyclopentene	67	2.730	2.732	-0.002	94	274024	50.0	50.7	
25 Acetonitrile	41	2.787	2.789	-0.002	98	199597	500.0	490.7	
26 Methylene Chloride	84	2.833	2.834	-0.001	97	111962	50.0	48.3	
* 27 TBA-d9 (IS)	65	2.833	2.834	-0.001	0	164281	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.901	2.903	-0.002	99	107432	500.0	467.7	
29 Methyl tert-butyl ether	73	2.981	2.983	-0.002	97	326295	50.0	50.7	
30 trans-1,2-Dichloroethene	96	3.004	3.006	-0.002	97	100361	50.0	48.9	
31 Acrylonitrile	53	3.084	3.086	-0.002	93	522932	500.0	467.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.152	3.154	-0.002	92	129410	50.0	47.7	
33 Isopropyl ether	45	3.358	3.360	-0.002	98	472889	50.0	52.2	
34 1,1-Dichloroethane	63	3.392	3.394	-0.002	100	233169	50.0	51.2	
35 Vinyl acetate	43	3.403	3.405	-0.002	100	646519	100.0	116.6	
36 2-Chloro-1,3-butadiene	88	3.426	3.428	-0.002	95	92700	50.0	51.5	
37 Tert-butyl ethyl ether	59	3.666	3.656	0.010	86	380029	50.0	52.1	
38 2,2-Dichloropropane	79	3.860	3.862	-0.002	94	56487	50.0	49.3	
* 39 2-Butanone-d5	46	3.860	3.862	-0.002	0	274334	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.894	3.896	-0.002	94	130126	50.0	50.2	
41 2-Butanone (MEK)	72	3.917	3.919	-0.002	95	65098	250.0	246.9	
42 Ethyl acetate	70	3.917	3.919	-0.002	95	26711	100.0	95.3	
43 Methyl acrylate	55	3.974	3.965	0.009	99	113906	50.0	50.7	
44 Propionitrile	54	4.054	4.045	0.009	97	204107	500.0	499.9	
46 Chlorobromomethane	128	4.111	4.113	-0.002	97	56633	50.0	50.3	
45 Tetrahydrofuran	72	4.111	4.113	-0.002	94	30657	100.0	90.1	
47 Methacrylonitrile	67	4.146	4.147	-0.001	96	539415	500.0	536.4	
48 Chloroform	83	4.168	4.170	-0.002	97	221033	50.0	51.4	
49 Cyclohexane	84	4.271	4.273	-0.002	97	150056	50.0	48.9	
50 1,1,1-Trichloroethane	97	4.294	4.296	-0.002	98	179792	50.0	49.6	
$ 51 Dibromofluoromethane (Surr	113	4.317	4.319	-0.002	95	96541	50.0	50.0	
52 Carbon tetrachloride	117	4.408	4.410	-0.002	98	145512	50.0	49.6	
53 1,1-Dichloropropene	75	4.442	4.444	-0.002	94	171510	50.0	49.6	
58 Isobutyl alcohol	43	4.591	4.593	-0.002	82	197449	1250.0	1215.8	
54 Isooctane	57	4.602	4.593	0.009	79	270879	50.0	50.2	
55 Benzene	78	4.636	4.638	-0.002	98	514626	50.0	51.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.659	4.661	-0.002	0	129214	50.0	49.7	
57 Tert-amyl methyl ether	87	4.705	4.707	-0.002	84	98748	50.0	52.9	
59 Isopropyl acetate	43	4.705	4.707	-0.002	93	396506	50.0	53.3	
60 1,2-Dichloroethane	62	4.739	4.730	0.009	97	187197	50.0	49.3	
61 n-Heptane	57	4.785	4.787	-0.002	98	57976	50.0	49.6	
* 62 Fluorobenzene	96	4.922	4.924	-0.002	97	421632	50.0	50.0	
63 n-Butanol	56	5.253	5.255	-0.002	94	92176	1250.0	1203.5	
64 Trichloroethene	95	5.276	5.266	0.010	94	124810	50.0	49.4	
65 Methylcyclohexane	83	5.379	5.380	-0.001	95	169406	50.0	49.9	
66 Ethyl acrylate	55	5.401	5.403	-0.002	97	326228	50.0	51.0	
67 1,2-Dichloropropane	63	5.561	5.563	-0.002	88	141745	50.0	49.9	
* 68 1,4-Dioxane-d8	96	5.630	5.631	-0.001	0	24572	1000.0	1000.0	
69 Methyl methacrylate	100	5.641	5.643	-0.002	94	59544	100.0	106.2	
70 1,4-Dioxane	88	5.687	5.677	0.010	86	30260	1000.0	1028.8	
71 Dibromomethane	93	5.687	5.689	-0.002	92	85378	50.0	51.2	
72 n-Propyl acetate	43	5.698	5.700	-0.002	99	204890	50.0	50.9	
73 Dichlorobromomethane	83	5.847	5.837	0.010	99	179864	50.0	50.3	
74 2-Nitropropane	41	6.178	6.179	-0.001	98	76445	100.0	96.2	
76 Epichlorohydrin	57	6.292	6.294	-0.002	99	149365	1000.0	937.1	
77 cis-1,3-Dichloropropene	75	6.338	6.339	-0.001	96	214232	50.0	50.4	
78 4-Methyl-2-pentanone (MIBK	43	6.509	6.511	-0.002	98	654363	250.0	253.0	
$ 79 Toluene-d8 (Surr)	98	6.577	6.579	-0.002	98	374223	50.0	49.7	
80 Toluene	91	6.646	6.648	-0.002	93	519796	50.0	50.5	
81 trans-1,3-Dichloropropene	75	7.011	7.013	-0.002	97	200187	50.0	50.2	
82 Ethyl methacrylate	69	7.045	7.047	-0.002	93	158121	50.0	49.8	
83 1,1,2-Trichloroethane	83	7.228	7.230	-0.002	94	105482	50.0	49.4	
84 Tetrachloroethene	166	7.251	7.253	-0.002	94	106478	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,3-Dichloropropane	76	7.434	7.435	-0.001	98	199586	50.0	50.5	
86 2-Hexanone	58	7.502	7.504	-0.002	99	252714	250.0	245.4	
87 n-Butyl acetate	43	7.616	7.618	-0.002	98	239271	50.0	50.3	
88 Chlorodibromomethane	129	7.662	7.664	-0.002	98	123886	50.0	50.5	
89 Ethylene Dibromide	107	7.810	7.812	-0.002	98	120008	50.0	50.1	
* 90 Chlorobenzene-d5	117	8.358	8.360	-0.002	91	308826	50.0	50.0	
91 Chlorobenzene	112	8.404	8.394	0.010	91	315118	50.0	50.5	
92 Ethylbenzene	106	8.507	8.497	0.010	99	167854	50.0	49.5	
93 1,1,1,2-Tetrachloroethane	131	8.518	8.520	-0.002	94	108921	50.0	50.2	
94 m-Xylene & p-Xylene	106	8.667	8.657	0.010	0	211276	50.0	48.8	
96 o-Xylene	106	9.180	9.182	-0.002	92	207804	50.0	49.7	
95 n-Butyl acrylate	73	9.180	9.182	-0.002	97	116147	50.0	50.3	
97 Styrene	104	9.226	9.216	0.010	94	370569	50.0	51.4	
98 Amyl acetate (mixed isomer	43	9.454	9.445	0.009	88	292920	50.0	50.9	
99 Bromoform	173	9.454	9.456	-0.002	95	78554	50.0	50.3	
100 Isopropylbenzene	105	9.580	9.582	-0.002	97	516032	50.0	51.3	
$ 101 4-Bromofluorobenzene	174	9.785	9.787	-0.002	85	109327	50.0	49.7	
102 Bromobenzene	156	9.911	9.913	-0.002	95	133274	50.0	50.0	
103 1,1,2,2-Tetrachloroethane	83	9.968	9.970	-0.002	98	166885	50.0	50.5	
104 N-Propylbenzene	91	9.980	9.981	-0.001	98	630758	50.0	51.4	
105 1,2,3-Trichloropropane	110	10.014	10.004	0.010	97	41321	50.0	48.7	
106 trans-1,4-Dichloro-2-buten	53	10.025	10.027	-0.002	90	54380	50.0	51.2	
107 2-Chlorotoluene	91	10.082	10.084	-0.002	96	459959	50.0	51.0	
108 4-Ethyltoluene	105	10.082	10.084	-0.002	97	533319	50.0	50.2	
109 1,3,5-Trimethylbenzene	105	10.151	10.153	-0.002	92	448329	50.0	49.9	
110 4-Chlorotoluene	91	10.185	10.187	-0.002	98	419831	50.0	49.8	
111 Butyl Methacrylate	87	10.242	10.244	-0.002	96	184878	50.0	51.1	
112 tert-Butylbenzene	119	10.402	10.404	-0.002	91	337880	50.0	50.3	
113 1,2,4-Trimethylbenzene	105	10.448	10.449	-0.001	99	472645	50.0	49.3	
114 sec-Butylbenzene	105	10.573	10.564	0.009	99	493459	50.0	51.1	
115 4-Isopropyltoluene	119	10.676	10.678	-0.002	97	425862	50.0	52.9	
116 1,3-Dichlorobenzene	146	10.676	10.678	-0.002	74	234487	50.0	52.5	
* 117 1,4-Dichlorobenzene-d4	152	10.733	10.735	-0.002	97	157504	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.756	10.746	0.010	92	241497	50.0	51.7	
134 1,2,3-Trimethylbenzene	105	10.767	10.769	-0.002	99	507724	50.0	51.8	
119 Benzyl chloride	91	10.859	10.860	-0.001	98	305191	50.0	52.5	
120 2,3-Dihydroindene	117	10.904	10.906	-0.002	94	479803	50.0	51.4	
121 p-Diethylbenzene	119	10.939	10.940	-0.001	92	239865	50.0	53.1	
122 n-Butylbenzene	92	10.961	10.963	-0.002	97	217726	50.0	52.0	
123 1,2-Dichlorobenzene	146	11.007	11.009	-0.002	93	237919	50.0	51.7	
124 1,2,4,5-Tetramethylbenzene	119	11.441	11.443	-0.002	97	432025	50.0	52.1	
125 1,2-Dibromo-3-Chloropropan	155	11.509	11.511	-0.002	92	22517	50.0	50.0	
126 1,3,5-Trichlorobenzene	180	11.589	11.591	-0.002	96	148685	50.0	51.9	
127 1,2,4-Trichlorobenzene	180	11.977	11.979	-0.002	94	131487	50.0	50.8	
128 Hexachlorobutadiene	225	12.035	12.036	-0.001	93	47610	50.0	50.0	
129 Naphthalene	128	12.137	12.139	-0.002	99	362112	50.0	48.7	
130 1,2,3-Trichlorobenzene	180	12.286	12.299	-0.013	94	107104	50.0	51.3	
S 131 1,2-Dichloroethene, Total	100				0		100.0	99.1	
S 132 Xylenes, Total	100				0		100.0	98.5	
S 133 Total BTEX	1				0		250.0	249.6	

Reagents:

GAS Hi_00260	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	5.00	Units: uL	
MIX I Hi_00095	Amount Added:	5.00	Units: uL	
Ethanol mix_00016	Amount Added:	5.00	Units: uL	
ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

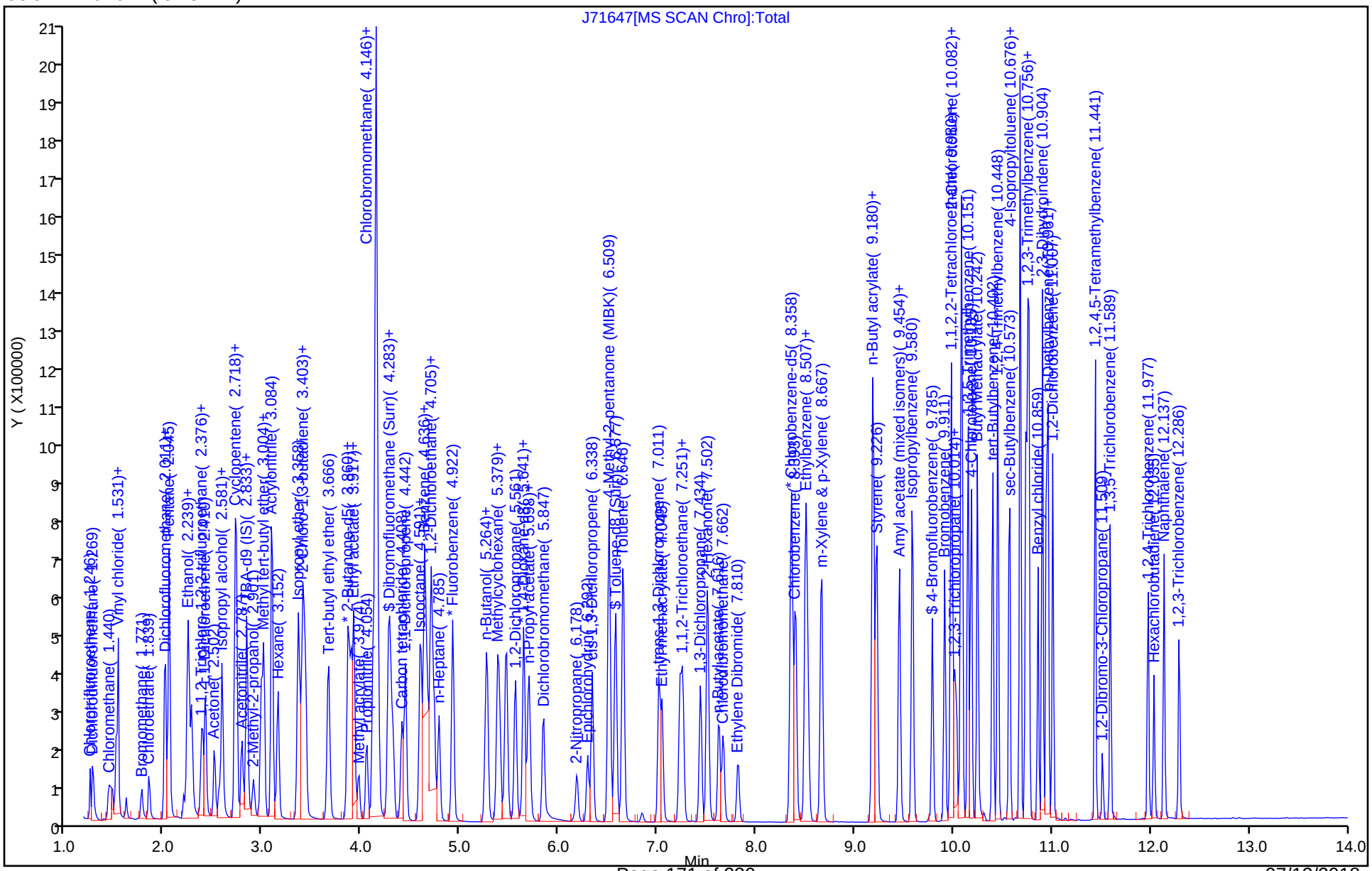
Report Date: 28-Jun-2018 14:45:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71647.D

Injection Date:	26-Jun-2018 23:02:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71648.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 26-Jun-2018 23:29:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074417-008
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:47:15 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.245	1.247	-0.002	55	67122	200.0	237.5	
2 Dichlorodifluoromethane	85	1.268	1.270	-0.002	100	627241	200.0	223.2	
3 Chloromethane	50	1.439	1.442	-0.003	100	782788	200.0	212.0	
4 Vinyl chloride	62	1.507	1.510	-0.003	99	665626	200.0	215.3	
5 Butadiene	54	1.530	1.533	-0.003	96	589066	200.0	212.7	
6 Bromomethane	94	1.770	1.773	-0.003	99	245806	200.0	209.8	M
7 Chloroethane	64	1.838	1.841	-0.003	99	324096	200.0	219.6	
8 Dichlorofluoromethane	67	1.998	2.001	-0.003	99	869773	200.0	202.6	
9 Trichlorofluoromethane	101	2.010	2.012	-0.002	98	691623	200.0	212.3	
10 Pentane	72	2.044	2.047	-0.003	95	112431	400.0	400.8	
11 Ethanol	46	2.192	2.195	-0.003	98	132639	8000.0	8451.6	
12 Ethyl ether	59	2.227	2.229	-0.002	96	405269	200.0	202.6	
13 2-Methyl-1,3-butadiene	53	2.249	2.241	0.008	93	415716	200.0	211.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.272	2.275	-0.003	98	294016	200.0	183.5	
15 1,1,2-Trichloro-1,2,2-trif	101	2.375	2.378	-0.003	92	376147	200.0	204.9	
16 Acrolein	56	2.386	2.389	-0.003	97	93833	200.0	209.7	
17 1,1-Dichloroethene	96	2.421	2.412	0.009	94	371741	200.0	207.0	
18 Acetone	43	2.501	2.503	-0.002	85	854553	1000.0	919.8	
19 Iodomethane	142	2.558	2.560	-0.002	99	452040	200.0	206.6	
20 Carbon disulfide	76	2.580	2.583	-0.003	100	1514307	200.0	201.4	
21 Isopropyl alcohol	45	2.592	2.595	-0.003	99	342825	2000.0	1961.3	
22 3-Chloro-1-propene	76	2.717	2.709	0.008	88	252282	200.0	191.8	
23 Cyclopentene	67	2.729	2.732	-0.003	93	1084231	200.0	194.3	
24 Methyl acetate	43	2.729	2.732	-0.003	99	881346	400.0	403.3	
25 Acetonitrile	41	2.786	2.789	-0.003	98	813995	2000.0	1926.7	
* 27 TBA-d9 (IS)	65	2.832	2.834	-0.002	0	170640	1000.0	1000.0	
26 Methylene Chloride	84	2.832	2.834	-0.002	99	461800	200.0	193.0	
28 2-Methyl-2-propanol	59	2.900	2.903	-0.003	99	467476	2000.0	2014.5	
29 Methyl tert-butyl ether	73	2.980	2.983	-0.003	97	1379963	200.0	207.8	
30 trans-1,2-Dichloroethene	96	3.014	3.006	0.008	98	424225	200.0	200.5	
31 Acrylonitrile	53	3.094	3.086	0.008	93	2115973	2000.0	1821.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.151	3.154	-0.003	92	577334	200.0	206.5	
33 Isopropyl ether	45	3.357	3.360	-0.003	99	1913278	200.0	204.5	
34 1,1-Dichloroethane	63	3.391	3.394	-0.003	99	938478	200.0	199.7	
35 Vinyl acetate	43	3.414	3.405	0.009	100	2297352	400.0	401.7	
36 2-Chloro-1,3-butadiene	88	3.437	3.428	0.009	94	387996	200.0	209.0	
37 Tert-butyl ethyl ether	59	3.665	3.656	0.009	86	1486271	200.0	197.5	
* 39 2-Butanone-d5	46	3.871	3.862	0.009	0	296744	250.0	250.0	
38 2,2-Dichloropropane	79	3.859	3.862	-0.003	95	234661	200.0	198.5	
40 cis-1,2-Dichloroethene	96	3.893	3.896	-0.003	96	545543	200.0	203.9	
42 Ethyl acetate	70	3.916	3.919	-0.003	95	121249	400.0	400.1	
41 2-Butanone (MEK)	72	3.916	3.919	-0.003	95	286635	1000.0	1004.9	
43 Methyl acrylate	55	3.973	3.965	0.008	100	516661	200.0	222.9	
44 Propionitrile	54	4.053	4.045	0.008	97	857539	2000.0	2022.1	
45 Tetrahydrofuran	72	4.122	4.113	0.009	96	128475	400.0	348.9	
46 Chlorobromomethane	128	4.110	4.113	-0.003	97	228813	200.0	196.8	
47 Methacrylonitrile	67	4.145	4.147	-0.002	96	2210145	2000.0	2130.3	
48 Chloroform	83	4.167	4.170	-0.003	97	903266	200.0	203.4	
49 Cyclohexane	84	4.270	4.273	-0.003	97	653496	200.0	206.6	
50 1,1,1-Trichloroethane	97	4.293	4.296	-0.003	98	749354	200.0	200.5	
$ 51 Dibromofluoromethane (Surr	113	4.316	4.319	-0.003	95	97739	50.0	49.1	
52 Carbon tetrachloride	117	4.407	4.410	-0.003	98	613554	200.0	202.6	
53 1,1-Dichloropropene	75	4.441	4.444	-0.003	94	713014	200.0	199.8	
54 Isooctane	57	4.601	4.593	0.008	72	1145745	200.0	206.0	
58 Isobutyl alcohol	43	4.601	4.593	0.008	84	812186	5000.0	4814.5	
55 Benzene	78	4.636	4.638	-0.002	98	2094828	200.0	202.6	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.658	4.661	-0.003	0	132967	50.0	49.6	
59 Isopropyl acetate	43	4.704	4.707	-0.003	93	1682919	200.0	219.3	
57 Tert-amyl methyl ether	87	4.704	4.707	-0.003	81	405424	200.0	210.5	
60 1,2-Dichloroethane	62	4.738	4.730	0.008	97	779346	200.0	198.8	
61 n-Heptane	57	4.784	4.787	-0.003	97	266140	200.0	220.6	
* 62 Fluorobenzene	96	4.921	4.924	-0.003	97	434965	50.0	50.0	
63 n-Butanol	56	5.252	5.255	-0.003	93	382026	5000.0	4802.2	
64 Trichloroethene	95	5.275	5.266	0.009	94	532979	200.0	204.5	
65 Methylcyclohexane	83	5.378	5.380	-0.002	92	724805	200.0	207.1	
66 Ethyl acrylate	55	5.400	5.403	-0.003	98	1414797	200.0	214.4	
67 1,2-Dichloropropane	63	5.560	5.563	-0.003	89	597007	200.0	203.8	
* 68 1,4-Dioxane-d8	96	5.629	5.631	-0.002	0	27721	1000.0	1000.0	M
69 Methyl methacrylate	100	5.640	5.643	-0.003	94	256158	400.0	442.8	
70 1,4-Dioxane	88	5.686	5.677	0.009	92	125001	4000.0	3767.3	
71 Dibromomethane	93	5.686	5.689	-0.003	92	356424	200.0	207.0	
72 n-Propyl acetate	43	5.697	5.700	-0.003	99	883582	200.0	212.7	
73 Dichlorobromomethane	83	5.846	5.837	0.009	99	761749	200.0	206.6	
74 2-Nitropropane	41	6.177	6.179	-0.002	98	337111	400.0	408.2	
76 Epichlorohydrin	57	6.291	6.294	-0.003	100	588514	4000.0	3662.1	
77 cis-1,3-Dichloropropene	75	6.337	6.339	-0.002	97	923281	200.0	211.3	
78 4-Methyl-2-pentanone (MIBK	43	6.508	6.511	-0.003	98	2807820	1000.0	1003.5	
$ 79 Toluene-d8 (Surr)	98	6.576	6.579	-0.003	97	384234	50.0	49.6	
80 Toluene	91	6.656	6.648	0.008	93	2121106	200.0	200.4	
81 trans-1,3-Dichloropropene	75	7.010	7.013	-0.003	96	853696	200.0	208.2	
82 Ethyl methacrylate	69	7.044	7.047	-0.003	94	706274	200.0	215.4	
83 1,1,2-Trichloroethane	83	7.227	7.230	-0.003	95	443319	200.0	202.1	
84 Tetrachloroethene	166	7.261	7.253	0.008	95	444917	200.0	205.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,3-Dichloropropane	76	7.433	7.435	-0.002	98	847194	200.0	208.7	
86 2-Hexanone	58	7.513	7.504	0.009	99	1058795	1000.0	950.6	
87 n-Butyl acetate	43	7.627	7.618	0.009	98	987021	200.0	201.9	
88 Chlorodibromomethane	129	7.661	7.664	-0.003	98	532329	200.0	211.2	
89 Ethylene Dibromide	107	7.821	7.812	0.009	99	505544	200.0	205.1	
* 90 Chlorobenzene-d5	117	8.357	8.360	-0.003	91	317442	50.0	50.0	
91 Chlorobenzene	112	8.403	8.394	0.009	90	1308141	200.0	203.9	
92 Ethylbenzene	106	8.506	8.497	0.009	99	709537	200.0	203.5	
93 1,1,1,2-Tetrachloroethane	131	8.529	8.520	0.009	94	461595	200.0	206.8	
94 m-Xylene & p-Xylene	106	8.666	8.657	0.009	0	868983	200.0	195.3	
95 n-Butyl acrylate	73	9.191	9.182	0.009	79	482071	200.0	203.0	
96 o-Xylene	106	9.179	9.182	-0.003	91	861036	200.0	200.4	
97 Styrene	104	9.225	9.216	0.009	92	1534329	200.0	207.1	
98 Amyl acetate (mixed isomer	43	9.453	9.445	0.008	88	1203185	200.0	205.2	
99 Bromoform	173	9.453	9.456	-0.003	94	343528	200.0	213.8	
100 Isopropylbenzene	105	9.590	9.582	0.008	97	2130766	200.0	206.2	
$ 101 4-Bromofluorobenzene	174	9.784	9.787	-0.003	84	112976	50.0	50.0	
102 Bromobenzene	156	9.910	9.913	-0.003	94	560846	200.0	206.7	
103 1,1,2,2-Tetrachloroethane	83	9.967	9.970	-0.003	99	690464	200.0	205.4	
104 N-Propylbenzene	91	9.979	9.981	-0.002	98	2582198	200.0	206.6	
105 1,2,3-Trichloropropane	110	10.013	10.004	0.009	98	170978	200.0	198.1	
106 trans-1,4-Dichloro-2-buten	53	10.036	10.027	0.009	81	228424	200.0	211.1	
108 4-Ethyltoluene	105	10.093	10.084	0.009	97	2124878	200.0	196.5	
107 2-Chlorotoluene	91	10.081	10.084	-0.003	96	1892152	200.0	206.2	
109 1,3,5-Trimethylbenzene	105	10.150	10.153	-0.003	91	1837008	200.0	200.9	
110 4-Chlorotoluene	91	10.184	10.187	-0.003	99	1775732	200.0	207.0	
111 Butyl Methacrylate	87	10.241	10.244	-0.003	97	773240	200.0	210.0	
112 tert-Butylbenzene	119	10.401	10.404	-0.003	91	1408248	200.0	205.7	
113 1,2,4-Trimethylbenzene	105	10.447	10.449	-0.002	99	1925383	200.0	197.4	
114 sec-Butylbenzene	105	10.572	10.564	0.008	98	2020363	200.0	205.6	
116 1,3-Dichlorobenzene	146	10.675	10.678	-0.003	75	945521	200.0	208.1	
115 4-Isopropyltoluene	119	10.675	10.678	-0.003	96	1677964	200.0	204.7	
* 117 1,4-Dichlorobenzene-d4	152	10.732	10.735	-0.003	96	160342	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.755	10.746	0.009	92	980642	200.0	206.1	
134 1,2,3-Trimethylbenzene	105	10.766	10.769	-0.003	99	1986307	200.0	199.1	
119 Benzyl chloride	91	10.858	10.860	-0.002	97	1295251	200.0	218.8	
120 2,3-Dihydroindene	117	10.903	10.906	-0.003	94	1892999	200.0	199.2	
121 p-Diethylbenzene	119	10.949	10.940	0.009	90	914832	200.0	199.1	
122 n-Butylbenzene	92	10.960	10.963	-0.003	98	884377	200.0	207.5	
123 1,2-Dichlorobenzene	146	11.006	11.009	-0.003	93	956817	200.0	204.4	
124 1,2,4,5-Tetramethylbenzene	119	11.440	11.443	-0.003	97	1707094	200.0	202.3	
125 1,2-Dibromo-3-Chloropropan	155	11.508	11.511	-0.003	96	95706	200.0	208.9	
126 1,3,5-Trichlorobenzene	180	11.588	11.591	-0.003	95	606808	200.0	208.3	
127 1,2,4-Trichlorobenzene	180	11.977	11.979	-0.003	95	558378	200.0	211.9	
128 Hexachlorobutadiene	225	12.034	12.036	-0.002	92	199752	200.0	205.9	
129 Naphthalene	128	12.136	12.139	-0.003	98	1515108	200.0	200.0	
130 1,2,3-Trichlorobenzene	180	12.296	12.299	-0.003	95	465560	200.0	219.1	
S 131 1,2-Dichloroethene, Total	100				0		400.0	404.4	
S 132 Xylenes, Total	100				0		400.0	395.7	
S 133 Total BTEX	1				0		1000.0	1002.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

GAS Hi_00260	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
Ethanol mix_00016	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	20.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

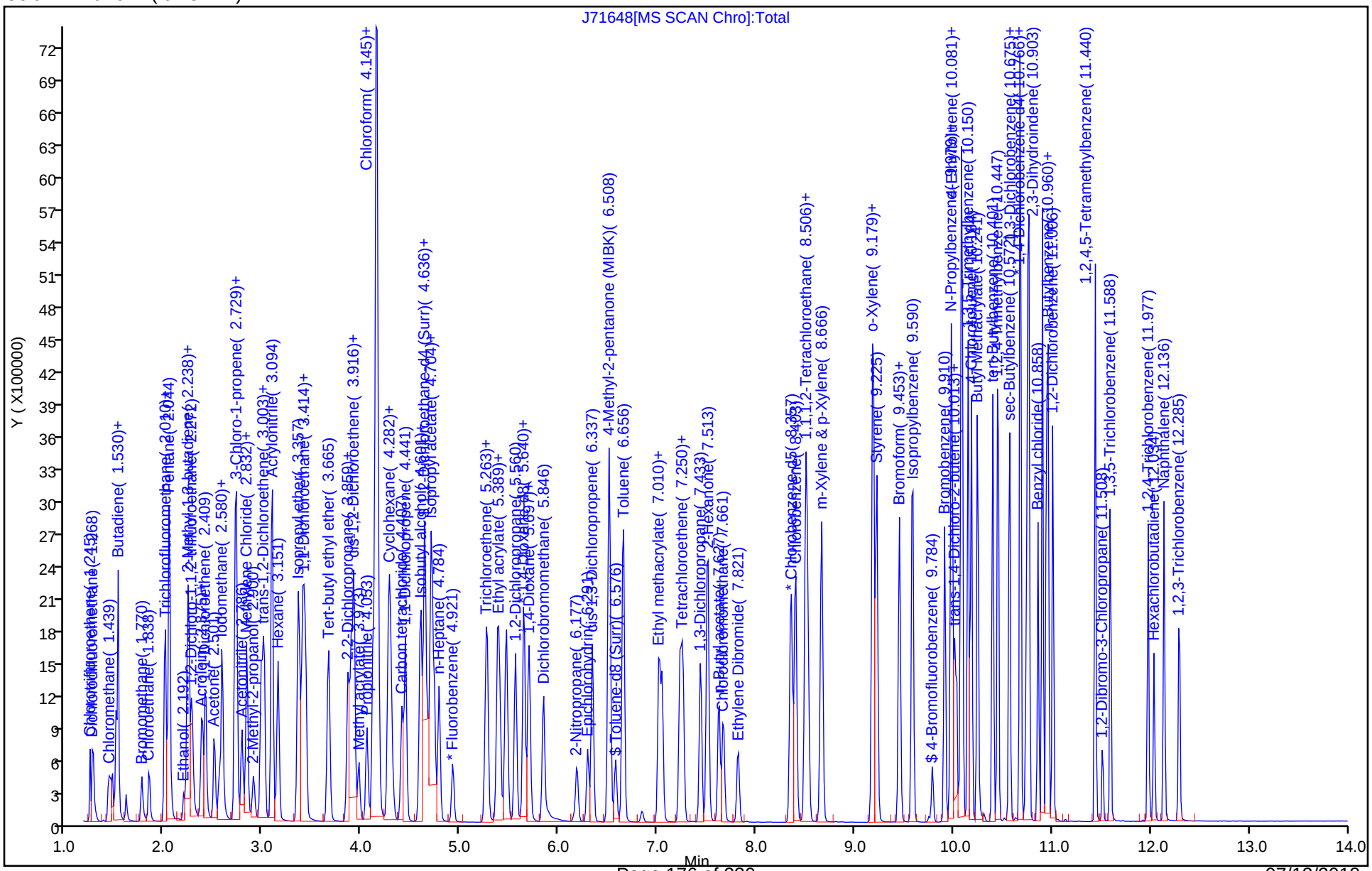
Report Date: 28-Jun-2018 14:47:19 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71648.D

Injection Date:	26-Jun-2018 23:29:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

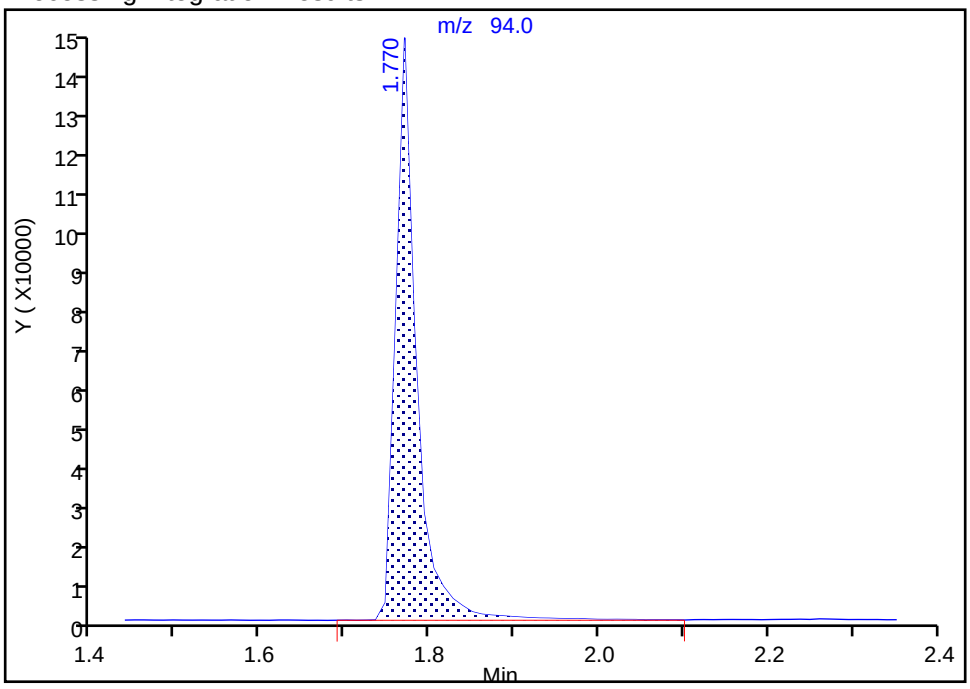
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71648.D
Injection Date: 26-Jun-2018 23:29:30 Instrument ID: CVOAMS8
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Bromomethane, CAS: 74-83-9

Signal: 1

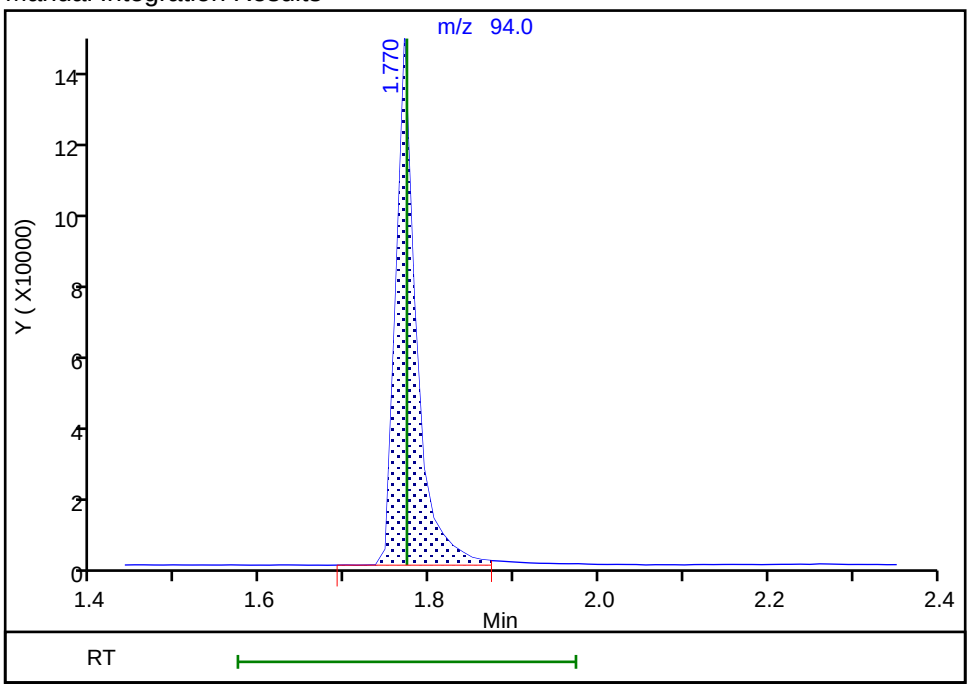
Processing Integration Results

RT: 1.77
Area: 250827
Amount: 210.5116
Amount Units: ug/l



Manual Integration Results

RT: 1.77
Area: 245806
Amount: 209.7871
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:36:52
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

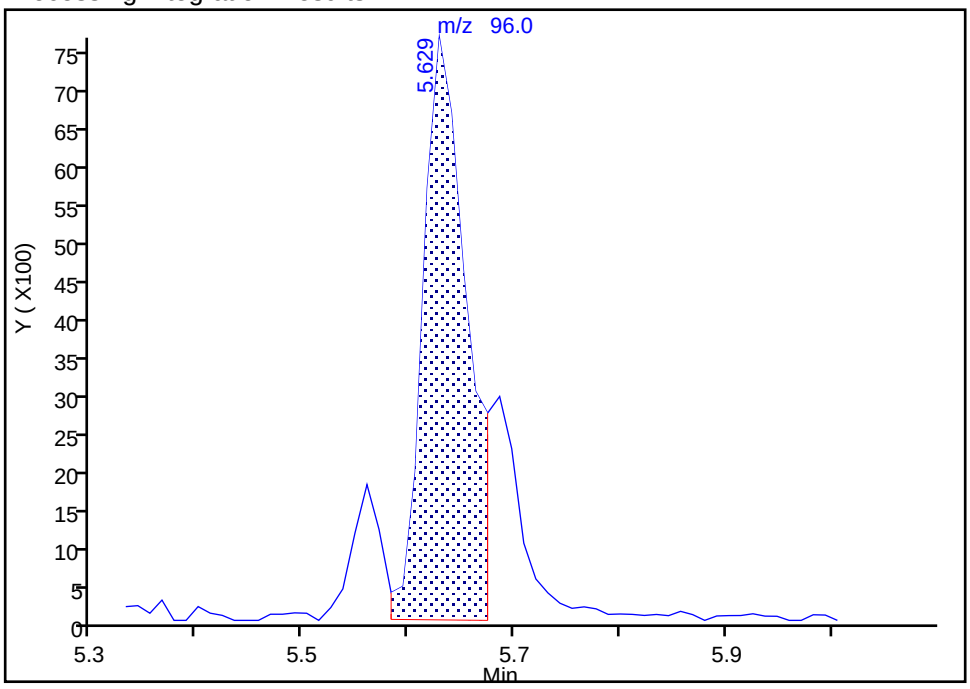
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71648.D
Injection Date: 26-Jun-2018 23:29:30 Instrument ID: CVOAMS8
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 68 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

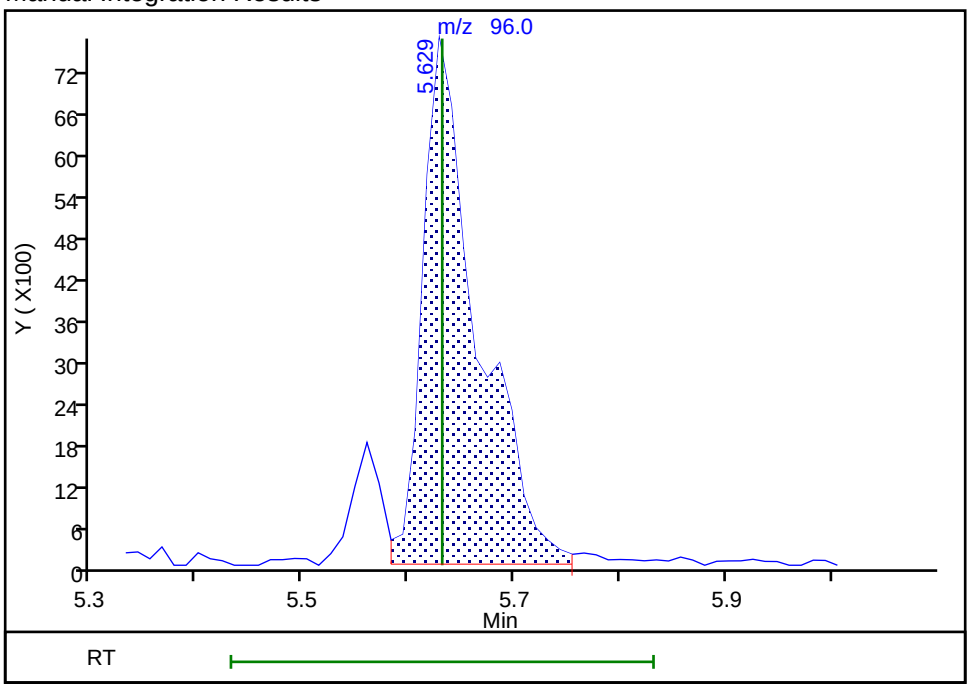
Processing Integration Results

RT: 5.63
Area: 22699
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.63
Area: 27721
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:22:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

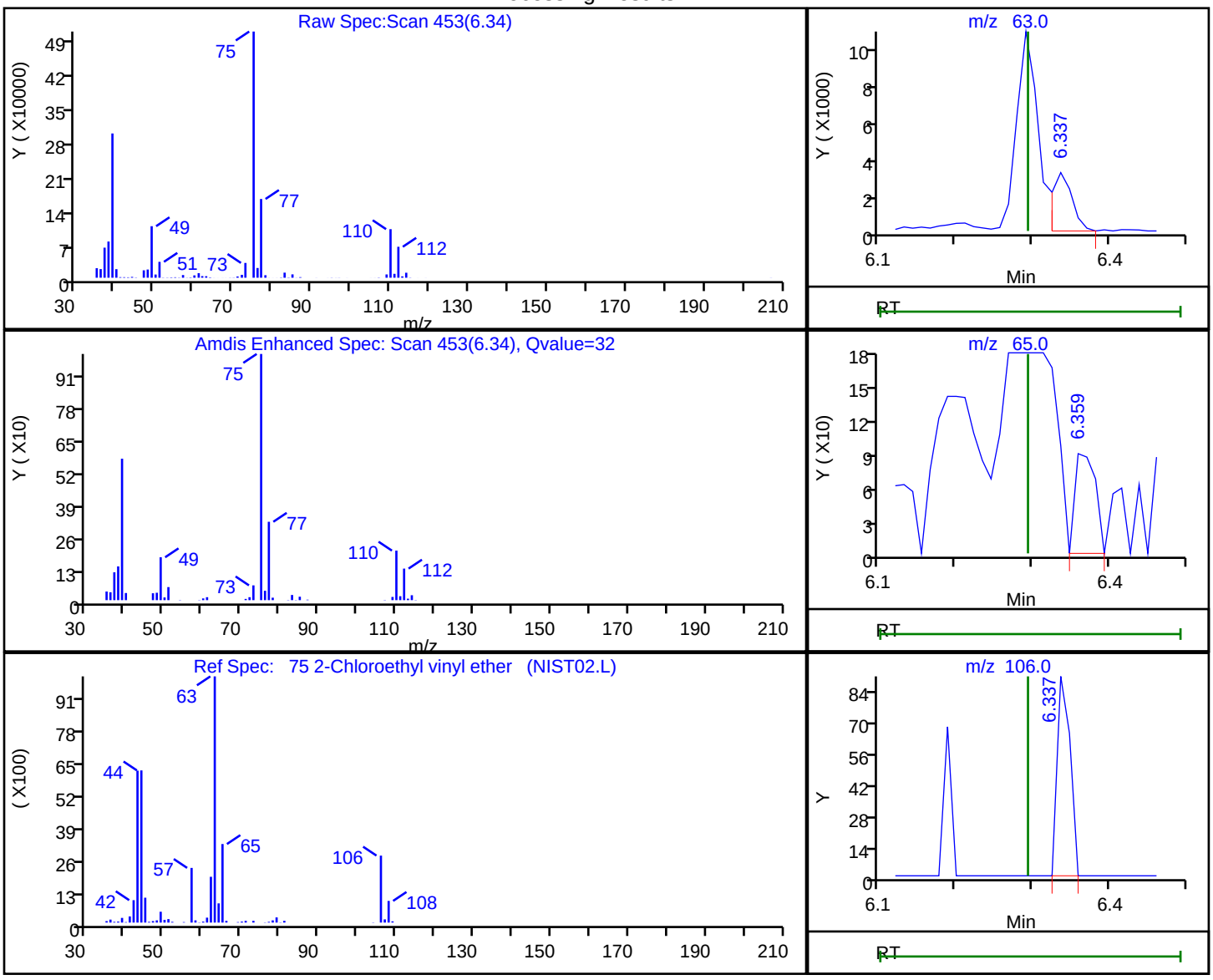
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71648.D
Injection Date: 26-Jun-2018 23:29:30 Instrument ID: CVOAMS8
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

75 2-Chloroethyl vinyl ether, CAS: 110-75-8

Processing Results



RT	Mass	Response	Amount
6.34	63.00	5720	52.237337
6.36	65.00	162	
6.34	106.00	107	

Reviewer: delpolitov, 28-Jun-2018 14:26:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 26-Jun-2018 23:56:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074417-009
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 28-Jun-2018 14:51:04 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.247	1.247	0.000	54	170887	500.0	584.2	
2 Dichlorodifluoromethane	85	1.270	1.270	0.000	100	1514931	500.0	520.7	
3 Chloromethane	50	1.441	1.442	-0.001	100	1929834	500.0	505.0	
4 Vinyl chloride	62	1.510	1.510	0.000	99	1583396	500.0	494.8	
5 Butadiene	54	1.532	1.533	-0.001	96	1386610	500.0	483.6	
6 Bromomethane	94	1.761	1.773	-0.012	98	419555	500.0	494.0	
7 Chloroethane	64	1.841	1.841	0.000	98	696244	500.0	455.8	
8 Dichlorofluoromethane	67	2.001	2.001	0.000	99	2080321	500.0	468.1	
9 Trichlorofluoromethane	101	2.001	2.012	-0.011	100	1610859	500.0	477.8	
10 Pentane	72	2.046	2.047	-0.001	95	269689	1000.0	837.1	
11 Ethanol	46	2.206	2.195	0.011	96	340671	20000	18899	
12 Ethyl ether	59	2.229	2.229	0.000	96	955500	500.0	461.5	
13 2-Methyl-1,3-butadiene	53	2.240	2.241	-0.001	95	996176	500.0	489.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.275	2.275	0.000	98	731179	500.0	440.8	
15 1,1,2-Trichloro-1,2,2-trif	101	2.377	2.378	-0.001	92	937864	500.0	493.6	
16 Acrolein	56	2.389	2.389	0.000	98	197363	400.0	384.0	
17 1,1-Dichloroethene	96	2.412	2.412	0.000	94	906954	500.0	487.9	
18 Acetone	43	2.503	2.503	0.000	85	2118190	2500.0	2093.4	
19 Iodomethane	142	2.560	2.560	0.000	99	1054724	500.0	498.9	
20 Carbon disulfide	76	2.583	2.583	0.000	100	3578552	500.0	459.8	
21 Isopropyl alcohol	45	2.606	2.595	0.011	99	894632	5000.0	4456.1	
22 3-Chloro-1-propene	76	2.708	2.709	-0.001	87	610151	500.0	448.2	
23 Cyclopentene	67	2.731	2.732	-0.001	94	2632474	500.0	455.9	
24 Methyl acetate	43	2.731	2.732	-0.001	99	2138038	1000.0	945.2	
25 Acetonitrile	41	2.788	2.789	-0.001	98	2033365	5000.0	4190.4	
* 27 TBA-d9 (IS)	65	2.845	2.834	0.011	0	195995	1000.0	1000.0	
26 Methylene Chloride	84	2.834	2.834	0.000	98	1122862	500.0	453.3	
28 2-Methyl-2-propanol	59	2.914	2.903	0.011	99	1259926	5000.0	4997.8	
29 Methyl tert-butyl ether	73	2.982	2.983	-0.001	97	3299152	500.0	479.8	
30 trans-1,2-Dichloroethene	96	3.005	3.006	-0.001	97	1016325	500.0	464.0	
31 Acrylonitrile	53	3.097	3.086	0.011	92	4757400	5000.0	3565.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.154	3.154	0.000	93	1383873	500.0	478.2	
33 Isopropyl ether	45	3.359	3.360	-0.001	99	4553879	500.0	470.3	
34 1,1-Dichloroethane	63	3.393	3.394	-0.001	98	2220831	500.0	456.5	
35 Vinyl acetate	43	3.416	3.405	0.011	100	5475375	1000.0	924.8	
36 2-Chloro-1,3-butadiene	88	3.428	3.428	0.000	94	954955	500.0	496.9	
37 Tert-butyl ethyl ether	59	3.667	3.656	0.011	87	3631751	500.0	466.1	
* 39 2-Butanone-d5	46	3.873	3.862	0.011	0	323199	250.0	250.0	
38 2,2-Dichloropropane	79	3.861	3.862	-0.001	96	494073	500.0	403.7	
40 cis-1,2-Dichloroethene	96	3.896	3.896	0.000	94	1304959	500.0	471.2	
42 Ethyl acetate	70	3.930	3.919	0.011	93	313916	1000.0	951.0	
41 2-Butanone (MEK)	72	3.930	3.919	0.011	95	731130	2500.0	2353.4	
43 Methyl acrylate	55	3.976	3.965	0.011	99	1352462	500.0	563.7	
44 Propionitrile	54	4.056	4.045	0.011	98	2179295	5000.0	4474.0	
45 Tetrahydrofuran	72	4.124	4.113	0.011	97	333798	1000.0	832.4	
46 Chlorobromomethane	128	4.113	4.113	0.000	96	555299	500.0	461.5	
47 Methacrylonitrile	67	4.158	4.147	0.011	95	5054811	5000.0	4706.8	
48 Chloroform	83	4.181	4.170	0.011	98	2056175	500.0	447.4	
49 Cyclohexane	84	4.272	4.273	-0.001	97	1585954	500.0	484.3	
50 1,1,1-Trichloroethane	97	4.295	4.296	-0.001	98	1840126	500.0	475.7	
$ 51 Dibromofluoromethane (Surr	113	4.330	4.319	0.011	96	101973	50.0	49.5	
52 Carbon tetrachloride	117	4.409	4.410	-0.001	98	1533350	500.0	489.1	
53 1,1-Dichloropropene	75	4.444	4.444	0.000	94	1800860	500.0	487.6	
54 Isooctane	57	4.604	4.593	0.011	94	2723226	500.0	472.9	
58 Isobutyl alcohol	43	4.604	4.593	0.011	91	2112313	12500	10902	a
55 Benzene	78	4.638	4.638	0.000	98	5039651	500.0	484.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.661	4.661	0.000	0	139230	50.0	50.2	
59 Isopropyl acetate	43	4.706	4.707	-0.001	94	4209944	500.0	530.0	
57 Tert-amyl methyl ether	87	4.706	4.707	-0.001	89	1000830	500.0	502.0	
60 1,2-Dichloroethane	62	4.741	4.730	0.011	97	1901478	500.0	468.7	
61 n-Heptane	57	4.786	4.787	-0.001	97	627142	500.0	502.2	
* 62 Fluorobenzene	96	4.923	4.924	-0.001	97	450249	50.0	50.0	
63 n-Butanol	56	5.266	5.255	0.011	92	1000313	12500	10947	
64 Trichloroethene	95	5.277	5.266	0.011	93	1303885	500.0	483.2	
65 Methylcyclohexane	83	5.380	5.380	0.000	92	1765235	500.0	487.3	
66 Ethyl acrylate	55	5.403	5.403	0.000	98	3574118	500.0	523.3	
67 1,2-Dichloropropane	63	5.563	5.563	0.000	88	1478826	500.0	487.6	
* 68 1,4-Dioxane-d8	96	5.631	5.631	0.000	0	32816	1000.0	1000.0	M
69 Methyl methacrylate	100	5.654	5.643	0.011	93	663549	1000.0	1108.2	
70 1,4-Dioxane	88	5.688	5.677	0.011	93	323236	10000	8229.2	
71 Dibromomethane	93	5.688	5.689	-0.001	91	841053	500.0	472.0	
72 n-Propyl acetate	43	5.700	5.700	0.000	99	2317968	500.0	539.2	
73 Dichlorobromomethane	83	5.848	5.837	0.011	99	1898256	500.0	497.3	
74 2-Nitropropane	41	6.190	6.179	0.011	99	887571	1000.0	935.8	
75 2-Chloroethyl vinyl ether	63	6.225	6.294	-0.069	67	11449	500.0	500.0	
76 Epichlorohydrin	57	6.293	6.294	-0.001	98	1525511	10000	10592	
77 cis-1,3-Dichloropropene	75	6.339	6.339	0.000	96	2290871	500.0	520.8	
78 4-Methyl-2-pentanone (MIBK	43	6.510	6.511	-0.001	98	6822054	2500.0	2238.6	
$ 79 Toluene-d8 (Surr)	98	6.579	6.579	0.000	98	402178	50.0	51.6	
80 Toluene	91	6.659	6.648	0.011	93	5081496	500.0	476.9	
81 trans-1,3-Dichloropropene	75	7.012	7.013	-0.001	96	2136001	500.0	517.5	
82 Ethyl methacrylate	69	7.047	7.047	0.000	93	1825509	500.0	537.9	
83 1,1,2-Trichloroethane	83	7.229	7.230	-0.001	95	1101438	500.0	498.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.264	7.253	0.011	93	1075657	500.0	492.6	
85 1,3-Dichloropropane	76	7.435	7.435	0.000	98	2097200	500.0	513.2	
86 2-Hexanone	58	7.515	7.504	0.011	98	2672613	2500.0	2203.0	
87 n-Butyl acetate	43	7.629	7.618	0.011	98	2522009	500.0	512.6	
88 Chlorodibromomethane	129	7.675	7.664	0.011	97	1319997	500.0	520.2	
89 Ethylene Dibromide	107	7.823	7.812	0.011	98	1265065	500.0	509.9	
* 90 Chlorobenzene-d5	117	8.371	8.360	0.011	91	319561	50.0	50.0	
91 Chlorobenzene	112	8.405	8.394	0.011	89	3163594	500.0	490.0	
92 Ethylbenzene	106	8.508	8.497	0.011	99	1707195	500.0	486.3	
93 1,1,1,2-Tetrachloroethane	131	8.531	8.520	0.011	94	1121453	500.0	499.1	
94 m-Xylene & p-Xylene	106	8.668	8.657	0.011	0	2074355	500.0	463.1	
95 n-Butyl acrylate	73	9.193	9.182	0.011	82	1175155	500.0	491.6	
96 o-Xylene	106	9.182	9.182	0.000	91	1989181	500.0	459.8	
97 Styrene	104	9.227	9.216	0.011	90	3588913	500.0	481.3	
98 Amyl acetate (mixed isomer	43	9.456	9.445	0.011	89	2938790	500.0	480.5	
99 Bromoform	173	9.456	9.456	0.000	94	835858	500.0	516.9	
100 Isopropylbenzene	105	9.593	9.582	0.011	98	4919678	500.0	472.8	
$ 101 4-Bromofluorobenzene	174	9.787	9.787	0.000	86	117709	50.0	51.7	
102 Bromobenzene	156	9.912	9.913	-0.001	94	1342965	500.0	474.5	
103 1,1,2,2-Tetrachloroethane	83	9.969	9.970	-0.001	98	1632169	500.0	465.5	
104 N-Propylbenzene	91	9.981	9.981	0.000	98	5830175	500.0	447.1	
105 1,2,3-Trichloropropane	110	10.015	10.004	0.011	97	434433	500.0	482.5	
106 trans-1,4-Dichloro-2-buten	53	10.038	10.027	0.011	85	582999	500.0	516.4	
108 4-Ethyltoluene	105	10.095	10.084	0.011	97	4754745	500.0	421.5	
107 2-Chlorotoluene	91	10.084	10.084	0.000	97	4276060	500.0	446.6	
109 1,3,5-Trimethylbenzene	105	10.152	10.153	-0.001	91	4294334	500.0	450.2	
110 4-Chlorotoluene	91	10.186	10.187	-0.001	99	4183676	500.0	467.5	
111 Butyl Methacrylate	87	10.243	10.244	-0.001	96	1893515	500.0	493.0	
112 tert-Butylbenzene	119	10.403	10.404	-0.001	89	3265302	500.0	457.3	
113 1,2,4-Trimethylbenzene	105	10.449	10.449	0.000	99	4389624	500.0	431.4	
114 sec-Butylbenzene	105	10.575	10.564	0.011	98	4664685	500.0	454.9	
116 1,3-Dichlorobenzene	146	10.677	10.678	-0.001	83	2093561	500.0	441.6	
115 4-Isopropyltoluene	119	10.677	10.678	-0.001	96	3722324	500.0	435.3	
* 117 1,4-Dichlorobenzene-d4	152	10.734	10.735	-0.001	98	167273	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.757	10.746	0.011	91	2242038	500.0	451.7	
134 1,2,3-Trimethylbenzene	105	10.769	10.769	0.000	99	4389734	500.0	421.7	
119 Benzyl chloride	91	10.860	10.860	0.000	97	3208484	500.0	519.6	
120 2,3-Dihydroindene	117	10.906	10.906	0.000	94	4136898	500.0	417.3	
121 p-Diethylbenzene	119	10.951	10.940	0.011	91	2211222	500.0	461.3	
122 n-Butylbenzene	92	10.963	10.963	0.000	97	2083654	500.0	468.5	
123 1,2-Dichlorobenzene	146	11.008	11.009	-0.001	91	2234451	500.0	457.6	
124 1,2,4,5-Tetramethylbenzene	119	11.442	11.443	-0.001	96	3804438	500.0	432.2	
125 1,2-Dibromo-3-Chloropropan	155	11.522	11.511	0.011	96	243922	500.0	510.3	
126 1,3,5-Trichlorobenzene	180	11.602	11.591	0.011	97	1438071	500.0	473.1	
127 1,2,4-Trichlorobenzene	180	11.979	11.979	0.000	94	1324271	500.0	481.7	
128 Hexachlorobutadiene	225	12.036	12.036	0.000	91	482287	500.0	476.6	
129 Naphthalene	128	12.139	12.139	0.000	98	3680237	500.0	465.7	
130 1,2,3-Trichlorobenzene	180	12.298	12.299	-0.001	95	1131131	500.0	510.3	
S 131 1,2-Dichloroethene, Total	100				0		1000.0	935.3	
S 132 Xylenes, Total	100				0		1000.0	922.9	
S 133 Total BTEX	1				0		2500.0	2370.4	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00260	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00071	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
Ethanol mix_00016	Amount Added:	50.00	Units: uL	
ACROLEIN W_00078	Amount Added:	40.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

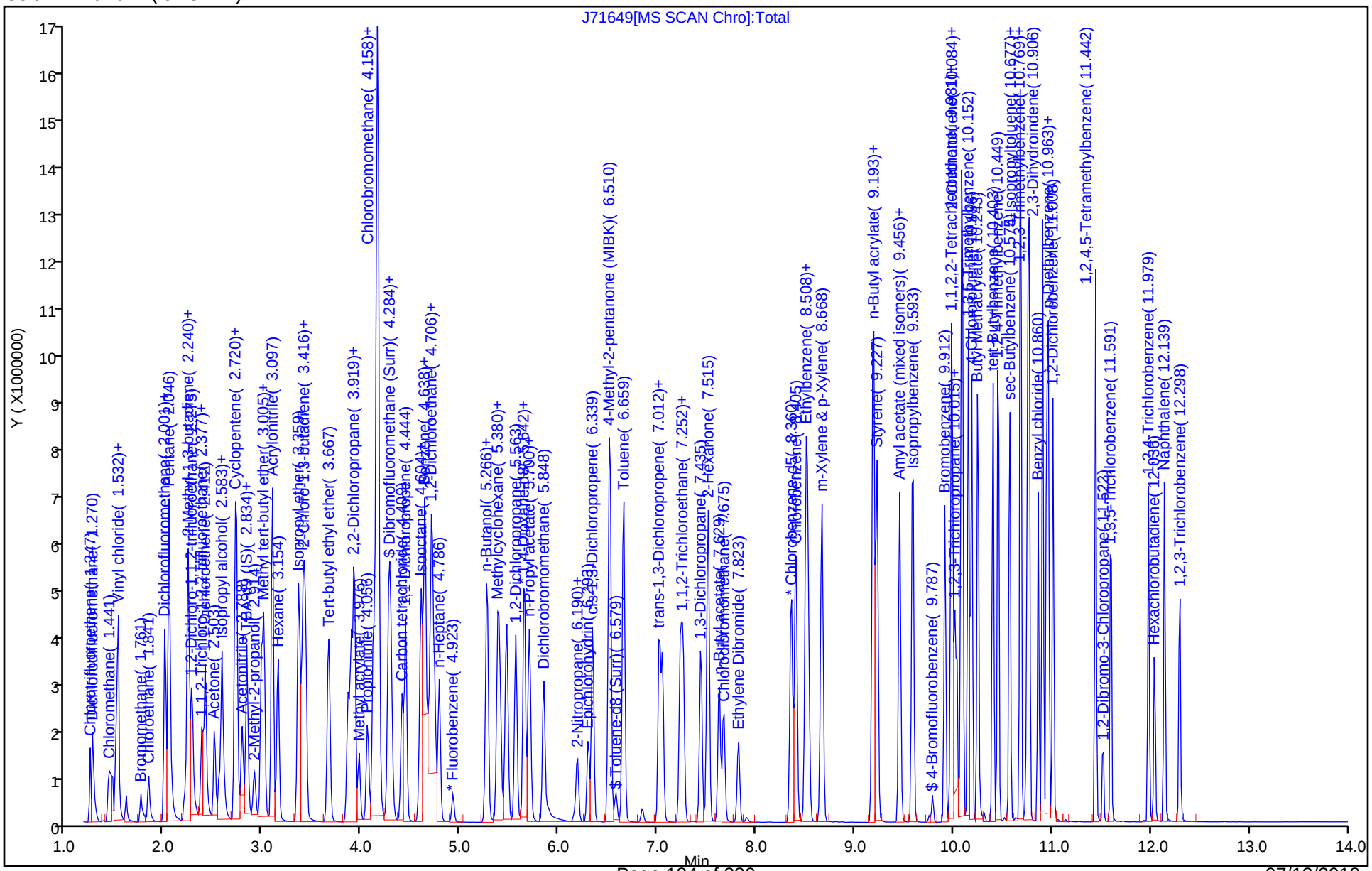
Report Date: 28-Jun-2018 14:51:08 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Injection Date:	26-Jun-2018 23:56:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

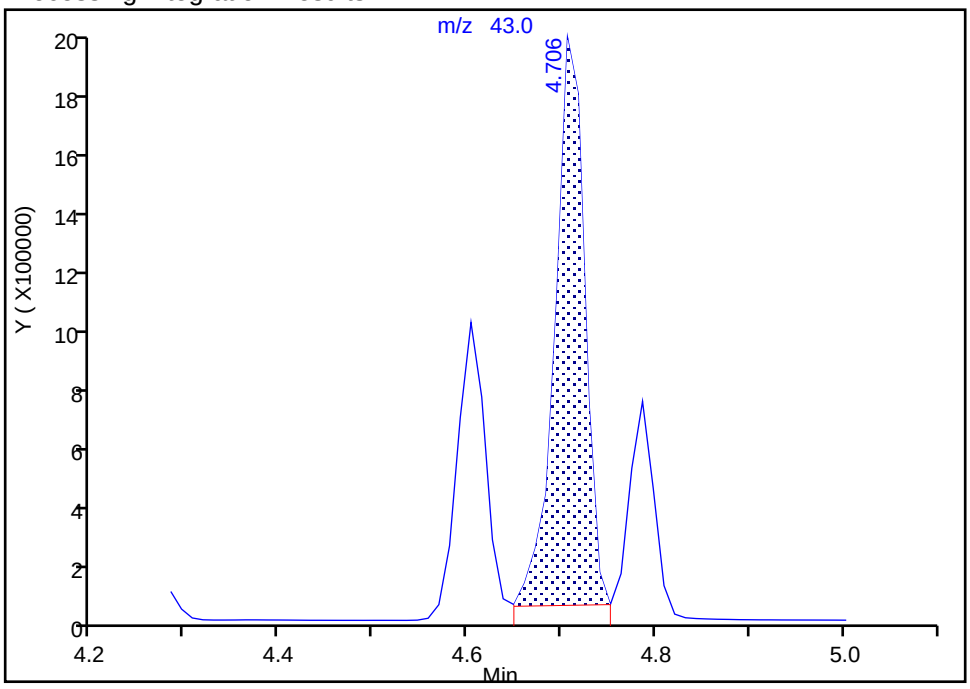
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D
Injection Date: 26-Jun-2018 23:56:30 Instrument ID: CVOAMS8
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

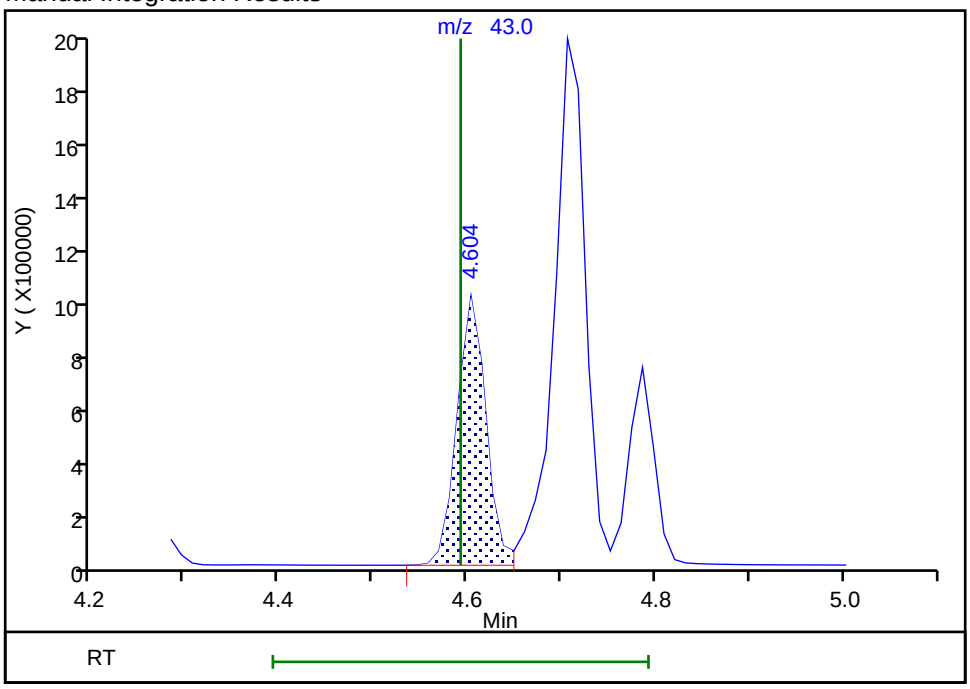
Processing Integration Results

RT: 4.71
Area: 4109912
Amount: 12509
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 2112313
Amount: 10902
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:23:36
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

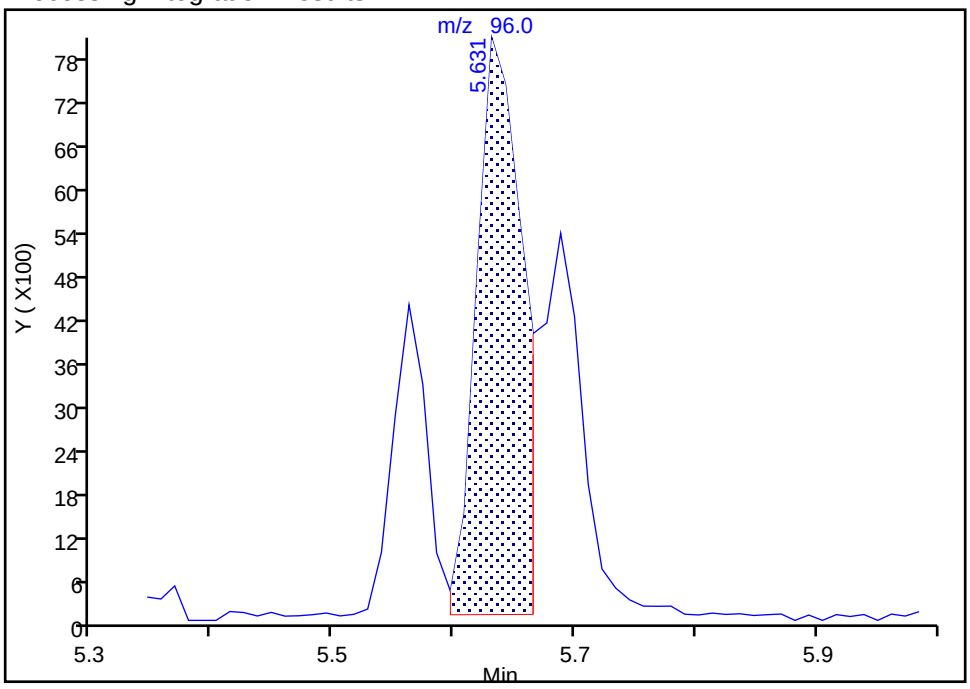
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D
Injection Date: 26-Jun-2018 23:56:30 Instrument ID: CVOAMS8
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 68 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

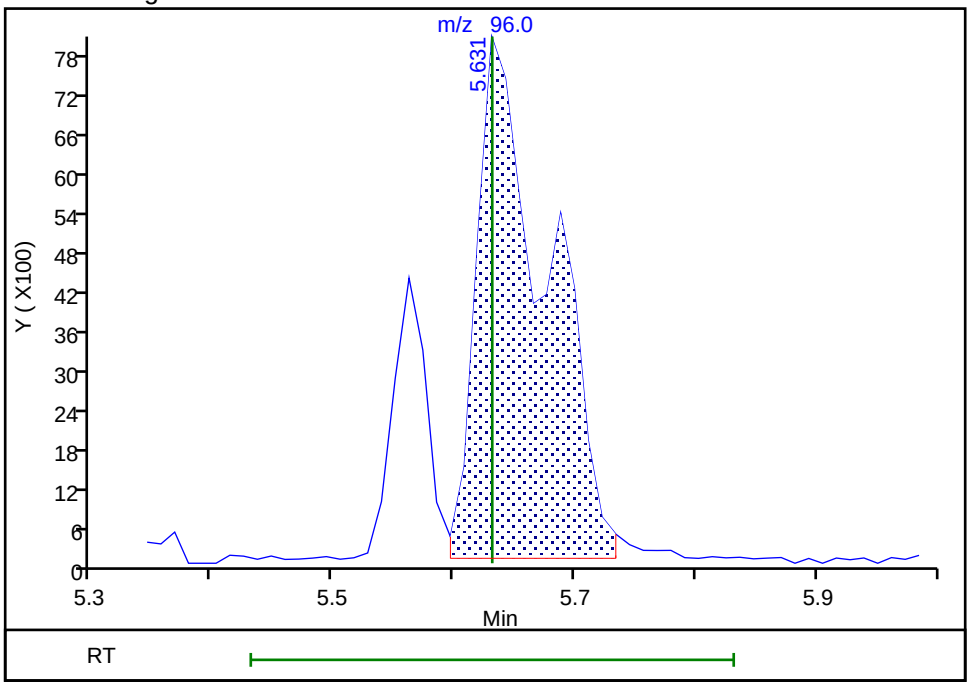
Processing Integration Results

RT: 5.63
Area: 21601
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.63
Area: 32816
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 28-Jun-2018 14:25:19
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab Sample ID: CCVIS 460-534856/2 Calibration Date: 07/10/2018 06:23

Instrument ID: CVOAMS8 Calib Start Date: 06/26/2018 21:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/26/2018 23:56

Lab File ID: J72288.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.0325	0.0262		16.1	20.0	-19.3	20.0
Dichlorodifluoromethane	Ave	0.3231	0.3143	0.1000	19.5	20.0	-2.7	20.0
Chloromethane	Ave	0.4244	0.3974	0.1000	18.7	20.0	-6.4	20.0
Vinyl chloride	Ave	0.3554	0.3601	0.1000	20.3	20.0	1.3	20.0
Butadiene	Ave	0.3184	0.3357		21.1	20.0	5.4	20.0
Bromomethane	QuaF		0.0781*	0.1000	9.57	20.0	-52.1*	50.0
Chloroethane	Ave	0.1696	0.1678	0.1000	19.8	20.0	-1.0	50.0
Dichlorofluoromethane	Ave	0.4935	0.5701		23.1	20.0	15.5	20.0
Trichlorofluoromethane	Ave	0.3744	0.4016	0.1000	21.5	20.0	7.3	20.0
Pentane	Ave	1.644	1.078		26.2	40.0	-34.4*	20.0
Ethanol	Ave	0.0920	0.0514		447	800	-44.1	50.0
Ethyl ether	Ave	0.2299	0.2479		21.6	20.0	7.8	20.0
2-Methyl-1,3-butadiene	Ave	0.2262	0.2854		25.2	20.0	26.2*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.1842	0.1760		19.1	20.0	-4.5	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.2110	0.2175	0.1000	20.6	20.0	3.1	20.0
Acrolein	Ave	2.623	2.256		34.4	40.0	-14.0	50.0
1,1-Dichloroethene	Ave	0.2064	0.1980	0.1000	19.2	20.0	-4.1	20.0
Acetone	Ave	0.7827	0.6125	0.0500	78.3	100	-21.7	50.0
Iodomethane	QuaF		0.1538		11.7	20.0	-41.5*	20.0
Carbon disulfide	Ave	0.8643	0.9098	0.1000	21.1	20.0	5.3	50.0
Isopropyl alcohol	Ave	1.024	0.7394		144	200	-27.8	50.0
Allyl chloride	Ave	0.1512	0.1562		20.7	20.0	3.3	20.0
Cyclopentene	Ave	0.6413	0.6889		21.5	20.0	7.4	20.0
Methyl acetate	Ave	0.2512	0.3221	0.1000	51.3	40.0	28.2*	20.0
Acetonitrile	Ave	2.476	1.849		149	200	-25.3*	20.0
Methylene Chloride	Ave	0.2751	0.2741	0.1000	19.9	20.0	-0.4	20.0
2-Methyl-2-propanol	QuaF		1.014		144	200	-27.9	50.0
Methyl tert-butyl ether	Ave	0.7636	0.8288	0.1000	21.7	20.0	8.5	20.0
trans-1,2-Dichloroethene	Ave	0.2432	0.2360	0.1000	19.4	20.0	-3.0	20.0
Acrylonitrile	Ave	6.808	4.838		142	200	-28.9*	20.0
Hexane	Ave	0.3214	0.3584		22.3	20.0	11.5	20.0
Isopropyl ether	Ave	1.075	1.290		24.0	20.0	20.0	20.0
1,1-Dichloroethane	Ave	0.5402	0.5888	0.2000	21.8	20.0	9.0	20.0
Vinyl acetate	Ave	0.6575	0.9857		60.0	40.0	49.9*	20.0
2-Chloro-1,3-butadiene	Ave	0.2134	0.2227		20.9	20.0	4.4	20.0
Tert-butyl ethyl ether	Ave	0.8652	1.008		23.3	20.0	16.5	20.0
2,2-Dichloropropane	Ave	0.1359	0.1489		21.9	20.0	9.6	20.0
cis-1,2-Dichloroethene	Ave	0.3075	0.2756	0.1000	17.9	20.0	-10.4	20.0
2-Butanone (MEK)	Ave	0.2403	0.1793	0.0500	74.6	100	-25.4	50.0
Ethyl acetate	Ave	0.2553	0.1977		31.0	40.0	-22.6*	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab Sample ID: CCVIS 460-534856/2 Calibration Date: 07/10/2018 06:23

Instrument ID: CVOAMS8 Calib Start Date: 06/26/2018 21:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/26/2018 23:56

Lab File ID: J72288.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2664	0.3297		24.7	20.0	23.7*	20.0
Propionitrile	Ave	2.485	1.773		143	200	-28.7*	20.0
Chlorobromomethane	Ave	0.1336	0.1259		18.8	20.0	-5.8	20.0
Tetrahydrofuran	Ave	0.3102	0.1994		25.7	40.0	-35.7*	20.0
Methacrylonitrile	Ave	0.1193	0.1410		236	200	18.2	20.0
Chloroform	Ave	0.5104	0.5260	0.2000	20.6	20.0	3.1	20.0
Cyclohexane	Ave	0.3636	0.3562	0.1000	19.6	20.0	-2.1	50.0
1,1,1-Trichloroethane	Ave	0.4295	0.4185	0.1000	19.5	20.0	-2.6	20.0
Carbon tetrachloride	Ave	0.3482	0.3589	0.1000	20.6	20.0	3.1	20.0
1,1-Dichloropropene	Ave	0.4102	0.3799		18.5	20.0	-7.4	20.0
2,2,4-Trimethylpentane	Ave	0.6395	0.6975		21.8	20.0	9.1	20.0
Isobutyl alcohol	Ave	0.9886	0.6571		332	500	-33.5	50.0
Benzene	Ave	1.629	1.645	0.5000	20.2	20.0	1.0	20.0
Isopropyl acetate	Ave	0.8821	1.139		25.8	20.0	29.1*	20.0
Tert-amyl methyl ether	Ave	0.2214	0.2397		21.6	20.0	8.2	20.0
1,2-Dichloroethane	Ave	0.4505	0.4656	0.1000	20.7	20.0	3.3	20.0
n-Heptane	Ave	0.1387	0.1472		21.2	20.0	6.1	20.0
n-Butanol	Ave	0.4662	0.2198		236	500	-52.9*	50.0
Trichloroethene	Ave	0.2996	0.2727	0.2000	18.2	20.0	-9.0	20.0
Methylcyclohexane	Ave	0.4022	0.3789	0.1000	18.8	20.0	-5.8	50.0
Ethyl acrylate	Ave	0.7584	0.8345		22.0	20.0	10.0	20.0
1,2-Dichloropropane	Ave	0.3368	0.3472	0.1000	20.6	20.0	3.1	20.0
Methyl methacrylate	Ave	0.0665	0.0658		39.6	40.0	-1.1	20.0
1,4-Dioxane	Ave	1.197	0.9070		303	400	-24.2	50.0
Dibromomethane	Ave	0.1979	0.1989		20.1	20.0	0.5	20.0
n-Propyl acetate	Ave	0.4774	0.5971		25.0	20.0	25.1*	20.0
Bromodichloromethane	Ave	0.4239	0.4225	0.2000	19.9	20.0	-0.3	20.0
2-Chloroethyl vinyl ether	Ave	0.0025	0.1792		1410	20.0	6948.9*	20.0
2-Nitropropane	Ave	4.839	3.593		29.7	40.0	-25.8*	20.0
Epichlorohydrin	Qua2		0.1593		431	400	7.8	20.0
cis-1,3-Dichloropropene	Ave	0.6882	0.7100	0.2000	20.6	20.0	3.2	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.357	2.029	0.0500	86.1	100	-13.9	50.0
Toluene	Ave	1.667	1.548	0.4000	18.6	20.0	-7.1	20.0
trans-1,3-Dichloropropene	Ave	0.6458	0.6495	0.1000	20.1	20.0	0.6	50.0
Ethyl methacrylate	Ave	0.3769	0.3538		18.8	20.0	-6.1	20.0
1,1,2-Trichloroethane	Ave	0.3454	0.3419	0.1000	19.8	20.0	-1.0	20.0
Tetrachloroethene	Ave	0.3416	0.3216	0.2000	18.8	20.0	-5.9	20.0
1,3-Dichloropropane	Ave	0.6393	0.6446		20.2	20.0	0.8	20.0
2-Hexanone	Ave	0.9384	0.6200	0.0500	66.1	100	-33.9	50.0
n-Butyl acetate	Ave	0.7698	0.8121		21.1	20.0	5.5	20.0
Dibromochloromethane	Ave	0.3970	0.3913	0.1000	19.7	20.0	-1.4	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab Sample ID: CCVIS 460-534856/2 Calibration Date: 07/10/2018 06:23

Instrument ID: CVOAMS8 Calib Start Date: 06/26/2018 21:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/26/2018 23:56

Lab File ID: J72288.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Ave	0.3882	0.3673	0.1000	18.9	20.0	-5.4	20.0
Chlorobenzene	Ave	1.010	0.9690	0.5000	19.2	20.0	-4.1	20.0
Ethylbenzene	Ave	0.5492	0.4825	0.1000	17.6	20.0	-12.2	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3516	0.3528		20.1	20.0	0.3	20.0
m-Xylene & p-Xylene	Ave	0.7008	0.5940	0.1000	17.0	20.0	-15.2	20.0
n-Butyl acrylate	Ave	0.3740	0.2963		15.8	20.0	-20.8*	20.0
o-Xylene	Ave	0.6769	0.5814	0.3000	17.2	20.0	-14.1	20.0
Styrene	Ave	1.167	1.060	0.3000	18.2	20.0	-9.2	20.0
Bromoform	Ave	0.2530	0.2612	0.1000	20.6	20.0	3.2	20.0
Isopropylbenzene	Ave	1.628	1.450	0.1000	17.8	20.0	-11.0	20.0
Bromobenzene	Ave	0.8460	0.7583		17.9	20.0	-10.4	20.0
1,1,2,2-Tetrachloroethane	Ave	1.048	1.031	0.3000	19.7	20.0	-1.7	20.0
N-Propylbenzene	Ave	3.898	3.446		17.7	20.0	-11.6	20.0
1,2,3-Trichloropropane	Ave	0.2692	0.2458		18.3	20.0	-8.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.3374	0.3390		20.1	20.0	0.4	20.0
2-Chlorotoluene	Ave	2.862	2.610		18.2	20.0	-8.8	20.0
4-Ethyltoluene	Ave	3.372	2.859		17.0	20.0	-15.2	20.0
1,3,5-Trimethylbenzene	Ave	2.851	2.494		17.5	20.0	-12.5	20.0
4-Chlorotoluene	Ave	2.675	2.381		17.8	20.0	-11.0	20.0
Butyl Methacrylate	Ave	1.148	0.9125		15.9	20.0	-20.5*	20.0
tert-Butylbenzene	Ave	2.134	1.897		17.8	20.0	-11.1	20.0
1,2,4-Trimethylbenzene	Ave	3.041	2.610		17.2	20.0	-14.2	20.0
sec-Butylbenzene	Ave	3.065	2.771		18.1	20.0	-9.6	20.0
1,3-Dichlorobenzene	Ave	1.417	1.357	0.6000	19.2	20.0	-4.2	20.0
4-Isopropyltoluene	Ave	2.556	2.408		18.8	20.0	-5.8	20.0
1,4-Dichlorobenzene	Ave	1.484	1.401	0.5000	18.9	20.0	-5.6	20.0
1,2,3-Trimethylbenzene	Ave	3.112	2.919		18.8	20.0	-6.2	20.0
Benzyl chloride	Ave	1.846	1.960		21.2	20.0	6.2	50.0
Indan	Ave	2.963	2.691		18.2	20.0	-9.2	20.0
p-Diethylbenzene	Ave	1.433	1.296		18.1	20.0	-9.6	20.0
n-Butylbenzene	Ave	1.329	1.232		18.5	20.0	-7.3	20.0
1,2-Dichlorobenzene	Ave	1.460	1.335	0.4000	18.3	20.0	-8.6	20.0
1,2,4,5-Tetramethylbenzene	Ave	2.631	2.470		18.8	20.0	-6.1	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1429	0.1317	0.0500	18.4	20.0	-7.8	50.0
1,3,5-Trichlorobenzene	Ave	0.9086	0.8817		19.4	20.0	-3.0	20.0
1,2,4-Trichlorobenzene	Ave	0.8217	0.7966	0.2000	19.4	20.0	-3.1	20.0
Hexachlorobutadiene	Ave	0.3025	0.2939		19.4	20.0	-2.8	20.0
Naphthalene	Ave	2.362	2.695		22.8	20.0	14.1	50.0
1,2,3-Trichlorobenzene	Ave	0.6626	0.6572		19.8	20.0	-0.8	20.0
Dibromofluoromethane (Surr)	Ave	0.2289	0.2366		51.7	50.0	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3083	0.3349		54.3	50.0	8.6	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Lab Sample ID: CCVIS 460-534856/2 Calibration Date: 07/10/2018 06:23

Instrument ID: CVOAMS8 Calib Start Date: 06/26/2018 21:14

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 06/26/2018 23:56

Lab File ID: J72288.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.219	1.238		50.8	50.0	1.5	20.0
4-Bromofluorobenzene	Ave	0.3561	0.3402		47.8	50.0	-4.5	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72288.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 06:23:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075165-002
Operator ID: Instrument ID: CVOAMS8
Sublist: chrom-8260_W8*sub49

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 12:32:58 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tupayachia Date: 10-Jul-2018 06:40:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.248	1.248	0.000	93	3842	20.0	16.1	M
2 Dichlorodifluoromethane	85	1.282	1.282	0.000	99	46059	20.0	19.5	
3 Chloromethane	50	1.465	1.465	0.000	100	58234	20.0	18.7	
4 Vinyl chloride	62	1.510	1.510	0.000	98	52761	20.0	20.3	
5 Butadiene	54	1.533	1.533	0.000	95	49188	20.0	21.1	
6 Bromomethane	94	1.773	1.773	0.000	99	11440	20.0	9.57	
7 Chloroethane	64	1.842	1.842	0.000	97	24595	20.0	19.8	
8 Dichlorofluoromethane	67	2.013	2.013	0.000	93	83540	20.0	23.1	
9 Trichlorofluoromethane	101	2.013	2.013	0.000	96	58851	20.0	21.5	
10 Pentane	72	2.047	2.047	0.000	96	9583	40.0	26.2	
11 Ethanol	46	2.207	2.207	0.000	97	9132	800.0	446.9	
12 Ethyl ether	59	2.230	2.230	0.000	92	36322	20.0	21.6	
13 2-Methyl-1,3-butadiene	53	2.241	2.241	0.000	91	41825	20.0	25.2	
14 1,2-Dichloro-1,1,2-trifluo	117	2.275	2.275	0.000	99	25790	20.0	19.1	
15 1,1,2-Trichloro-1,2,2-trif	101	2.378	2.378	0.000	91	31864	20.0	20.6	
16 Acrolein	56	2.401	2.401	0.000	96	20052	40.0	34.4	
17 1,1-Dichloroethene	96	2.412	2.412	0.000	91	29016	20.0	19.2	
18 Acetone	43	2.515	2.515	0.000	84	82387	100.0	78.3	
19 Iodomethane	142	2.572	2.572	0.000	97	22537	20.0	11.7	
20 Carbon disulfide	76	2.595	2.595	0.000	100	133311	20.0	21.1	
21 Isopropyl alcohol	45	2.606	2.606	0.000	99	32855	200.0	144.4	
22 3-Chloro-1-propene	76	2.721	2.721	0.000	86	22883	20.0	20.7	
23 Cyclopentene	67	2.732	2.732	0.000	95	100945	20.0	21.5	
24 Methyl acetate	43	2.732	2.732	0.000	98	94392	40.0	51.3	
25 Acetonitrile	41	2.789	2.789	0.000	98	82143	200.0	149.3	
26 Methylene Chloride	84	2.846	2.846	0.000	94	40166	20.0	19.9	
* 27 TBA-d9 (IS)	65	2.846	2.846	0.000	0	222166	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.915	2.915	0.000	98	45073	200.0	144.3	
29 Methyl tert-butyl ether	73	2.995	2.995	0.000	96	121453	20.0	21.7	
30 trans-1,2-Dichloroethene	96	3.017	3.017	0.000	97	34584	20.0	19.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.097	3.097	0.000	94	214946	200.0	142.1	
32 Hexane	57	3.154	3.154	0.000	91	52522	20.0	22.3	
33 Isopropyl ether	45	3.360	3.360	0.000	97	189017	20.0	24.0	
34 1,1-Dichloroethane	63	3.394	3.394	0.000	99	86279	20.0	21.8	
35 Vinyl acetate	43	3.417	3.417	0.000	100	288889	40.0	60.0	
36 2-Chloro-1,3-butadiene	88	3.440	3.440	0.000	94	32631	20.0	20.9	
37 Tert-butyl ethyl ether	59	3.668	3.668	0.000	86	147671	20.0	23.3	
38 2,2-Dichloropropane	79	3.862	3.862	0.000	89	21824	20.0	21.9	
* 39 2-Butanone-d5	46	3.874	3.874	0.000	0	336249	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.897	3.897	0.000	90	40382	20.0	17.9	
41 2-Butanone (MEK)	72	3.931	3.931	0.000	94	24115	100.0	74.6	
42 Ethyl acetate	70	3.931	3.931	0.000	94	10638	40.0	31.0	
43 Methyl acrylate	55	3.976	3.976	0.000	99	48312	20.0	24.7	
44 Propionitrile	54	4.056	4.056	0.000	98	78787	200.0	142.7	
46 Chlorobromomethane	128	4.113	4.113	0.000	94	18442	20.0	18.8	
45 Tetrahydrofuran	72	4.125	4.125	0.000	87	10730	40.0	25.7	
47 Methacrylonitrile	67	4.148	4.148	0.000	98	206650	200.0	236.5	
48 Chloroform	83	4.171	4.171	0.000	97	77073	20.0	20.6	
49 Cyclohexane	84	4.273	4.273	0.000	98	52193	20.0	19.6	
50 1,1,1-Trichloroethane	97	4.296	4.296	0.000	97	61327	20.0	19.5	
$ 51 Dibromofluoromethane (Surr	113	4.330	4.330	0.000	94	86691	50.0	51.7	
52 Carbon tetrachloride	117	4.410	4.410	0.000	97	52592	20.0	20.6	
53 1,1-Dichloropropene	75	4.445	4.445	0.000	91	55668	20.0	18.5	
58 Isobutyl alcohol	43	4.604	4.604	0.000	74	72991	500.0	332.3	a
54 Isooctane	57	4.604	4.604	0.000	75	102212	20.0	21.8	
55 Benzene	78	4.639	4.639	0.000	97	171651	20.0	20.2	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.673	4.673	0.000	0	122678	50.0	54.3	
57 Tert-amyl methyl ether	87	4.719	4.719	0.000	81	35119	20.0	21.6	
59 Isopropyl acetate	43	4.719	4.719	0.000	95	166841	20.0	25.8	
60 1,2-Dichloroethane	62	4.741	4.741	0.000	96	68222	20.0	20.7	
61 n-Heptane	57	4.787	4.787	0.000	96	21564	20.0	21.2	
* 62 Fluorobenzene	96	4.924	4.924	0.000	97	366336	50.0	50.0	
63 n-Butanol	56	5.267	5.267	0.000	98	24417	500.0	235.7	
64 Trichloroethene	95	5.278	5.278	0.000	94	39957	20.0	18.2	
65 Methylcyclohexane	83	5.392	5.392	0.000	90	55525	20.0	18.8	
66 Ethyl acrylate	55	5.404	5.404	0.000	97	122287	20.0	22.0	
67 1,2-Dichloropropane	63	5.563	5.563	0.000	87	50872	20.0	20.6	
* 68 1,4-Dioxane-d8	96	5.643	5.643	0.000	0	22637	1000.0	1000.0	
69 Methyl methacrylate	100	5.655	5.655	0.000	93	19272	40.0	39.6	
70 1,4-Dioxane	88	5.700	5.700	0.000	35	8213	400.0	303.1	
71 Dibromomethane	93	5.700	5.700	0.000	89	29152	20.0	20.1	
72 n-Propyl acetate	43	5.712	5.712	0.000	98	87500	20.0	25.0	
73 Dichlorobromomethane	83	5.849	5.849	0.000	98	61912	20.0	19.9	
74 2-Nitropropane	41	6.191	6.191	0.000	83	31926	40.0	29.7	
75 2-Chloroethyl vinyl ether	63	6.191	6.191	0.000	64	26265	20.0	1409.8	
76 Epichlorohydrin	57	6.294	6.294	0.000	99	85700	400.0	431.3	
77 cis-1,3-Dichloropropene	75	6.340	6.340	0.000	98	74103	20.0	20.6	
78 4-Methyl-2-pentanone (MIBK	43	6.511	6.511	0.000	98	272838	100.0	86.1	
$ 79 Toluene-d8 (Surr)	98	6.580	6.580	0.000	98	322964	50.0	50.8	
80 Toluene	91	6.659	6.659	0.000	92	161604	20.0	18.6	
81 trans-1,3-Dichloropropene	75	7.025	7.025	0.000	97	67787	20.0	20.1	
82 Ethyl methacrylate	69	7.048	7.048	0.000	95	51848	20.0	18.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 1,1,2-Trichloroethane	83	7.230	7.230	0.000	93	35679	20.0	19.8	
84 Tetrachloroethene	166	7.265	7.265	0.000	91	33564	20.0	18.8	
85 1,3-Dichloropropane	76	7.447	7.447	0.000	97	67276	20.0	20.2	
86 2-Hexanone	58	7.516	7.516	0.000	98	83392	100.0	66.1	
87 n-Butyl acetate	43	7.630	7.630	0.000	96	84762	20.0	21.1	
88 Chlorodibromomethane	129	7.676	7.676	0.000	96	40840	20.0	19.7	
89 Ethylene Dibromide	107	7.824	7.824	0.000	97	38333	20.0	18.9	
* 90 Chlorobenzene-d5	117	8.372	8.372	0.000	92	260924	50.0	50.0	
91 Chlorobenzene	112	8.406	8.406	0.000	91	101131	20.0	19.2	
92 Ethylbenzene	106	8.509	8.509	0.000	100	50353	20.0	17.6	
93 1,1,1,2-Tetrachloroethane	131	8.532	8.532	0.000	92	36820	20.0	20.1	
94 m-Xylene & p-Xylene	106	8.669	8.669	0.000	0	61999	20.0	17.0	
96 o-Xylene	106	9.194	9.194	0.000	92	60683	20.0	17.2	
95 n-Butyl acrylate	73	9.194	9.194	0.000	77	30919	20.0	15.8	
97 Styrene	104	9.228	9.228	0.000	91	110604	20.0	18.2	
98 Amyl acetate (mixed isomer	43	9.457	9.457	0.000	87	92353	20.0	18.5	
99 Bromoform	173	9.468	9.468	0.000	91	27258	20.0	20.6	
100 Isopropylbenzene	105	9.594	9.594	0.000	98	151284	20.0	17.8	
$ 101 4-Bromofluorobenzene	174	9.799	9.799	0.000	87	88773	50.0	47.8	
102 Bromobenzene	156	9.913	9.913	0.000	92	41359	20.0	17.9	
103 1,1,2,2-Tetrachloroethane	83	9.970	9.970	0.000	98	56213	20.0	19.7	
104 N-Propylbenzene	91	9.993	9.993	0.000	98	187955	20.0	17.7	
105 1,2,3-Trichloropropane	110	10.016	10.016	0.000	97	13408	20.0	18.3	
106 trans-1,4-Dichloro-2-buten	53	10.039	10.039	0.000	85	18486	20.0	20.1	
107 2-Chlorotoluene	91	10.084	10.084	0.000	97	142323	20.0	18.2	
108 4-Ethyltoluene	105	10.096	10.096	0.000	97	155949	20.0	17.0	
109 1,3,5-Trimethylbenzene	105	10.153	10.153	0.000	92	136041	20.0	17.5	
110 4-Chlorotoluene	91	10.187	10.187	0.000	99	129854	20.0	17.8	
111 Butyl Methacrylate	87	10.244	10.244	0.000	96	49769	20.0	15.9	
112 tert-Butylbenzene	119	10.404	10.404	0.000	90	103460	20.0	17.8	
113 1,2,4-Trimethylbenzene	105	10.450	10.450	0.000	99	142324	20.0	17.2	
114 sec-Butylbenzene	105	10.575	10.575	0.000	98	151132	20.0	18.1	
115 4-Isopropyltoluene	119	10.678	10.678	0.000	96	131302	20.0	18.8	
116 1,3-Dichlorobenzene	146	10.678	10.678	0.000	73	73998	20.0	19.2	
* 117 1,4-Dichlorobenzene-d4	152	10.735	10.735	0.000	97	136347	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.758	10.758	0.000	94	76423	20.0	18.9	
134 1,2,3-Trimethylbenzene	105	10.769	10.769	0.000	99	159213	20.0	18.8	
119 Benzyl chloride	91	10.861	10.861	0.000	98	106907	20.0	21.2	
120 2,3-Dihydroindene	117	10.906	10.906	0.000	94	146789	20.0	18.2	
121 p-Diethylbenzene	119	10.952	10.952	0.000	92	70676	20.0	18.1	
122 n-Butylbenzene	92	10.964	10.964	0.000	97	67208	20.0	18.5	
123 1,2-Dichlorobenzene	146	11.009	11.009	0.000	92	72798	20.0	18.3	
124 1,2,4,5-Tetramethylbenzene	119	11.443	11.443	0.000	97	134696	20.0	18.8	
125 1,2-Dibromo-3-Chloropropan	155	11.512	11.512	0.000	89	7182	20.0	18.4	
126 1,3,5-Trichlorobenzene	180	11.591	11.591	0.000	95	48088	20.0	19.4	
127 1,2,4-Trichlorobenzene	180	11.980	11.980	0.000	94	43443	20.0	19.4	
128 Hexachlorobutadiene	225	12.037	12.037	0.000	91	16026	20.0	19.4	
129 Naphthalene	128	12.139	12.139	0.000	98	146956	20.0	22.8	a
130 1,2,3-Trichlorobenzene	180	12.299	12.299	0.000	93	35842	20.0	19.8	
S 131 1,2-Dichloroethene, Total	100				0		40.0	37.3	
S 132 Xylenes, Total	100				0		40.0	34.1	
S 133 Total BTEX	1				0		100.0	90.5	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00268	Amount Added:	20.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 12:33:01 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72288.D

Injection Date: 10-Jul-2018 06:23:30 Instrument ID: CVOAMS8 Operator ID:

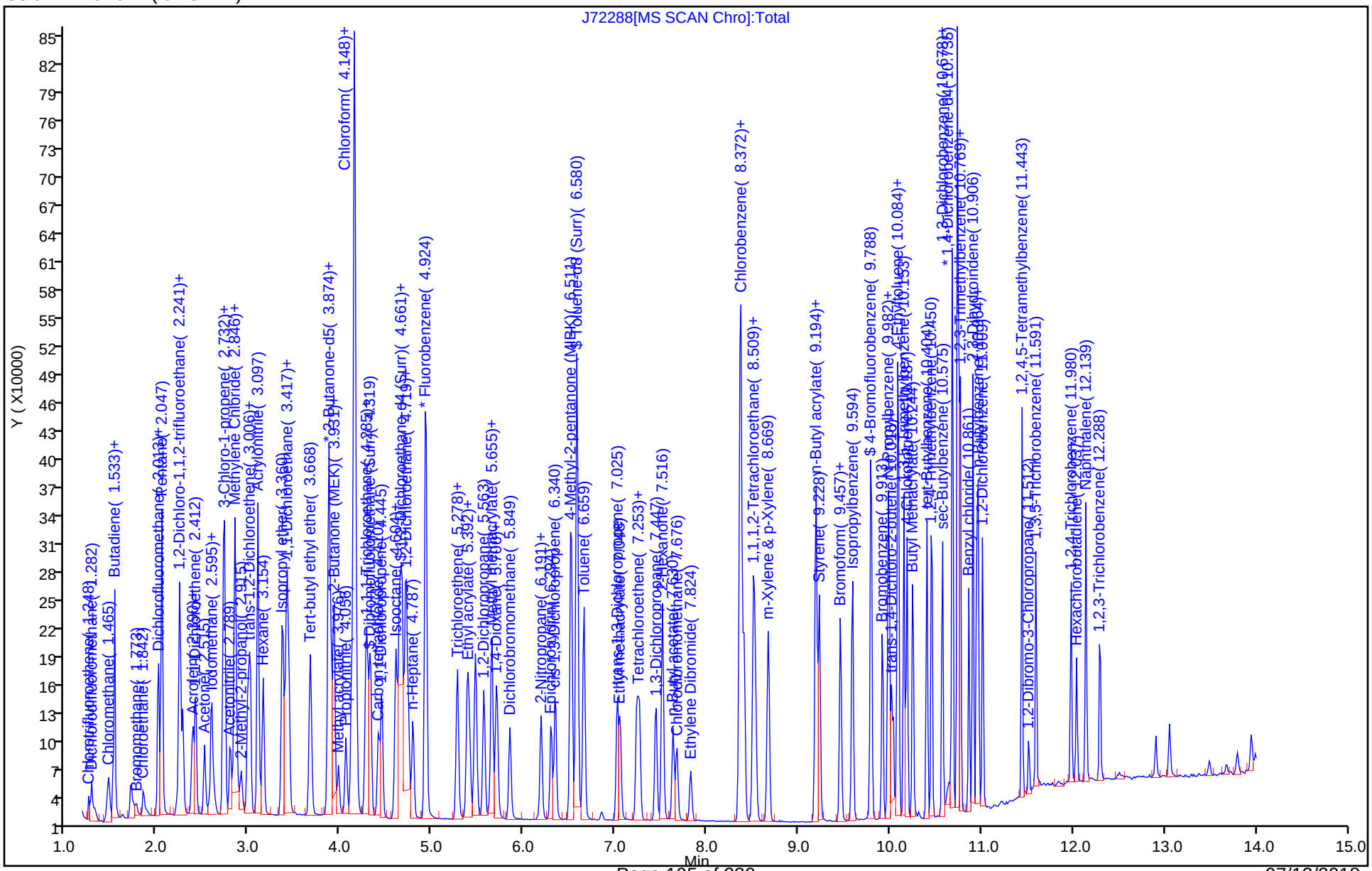
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

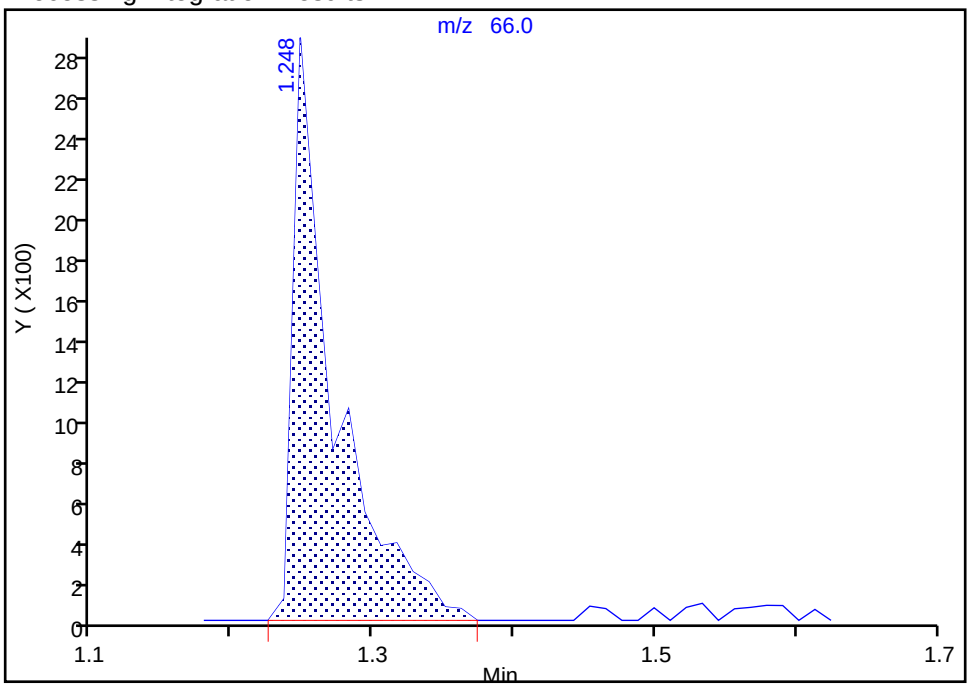
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72288.D
Injection Date: 10-Jul-2018 06:23:30 Instrument ID: CVOAMS8
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

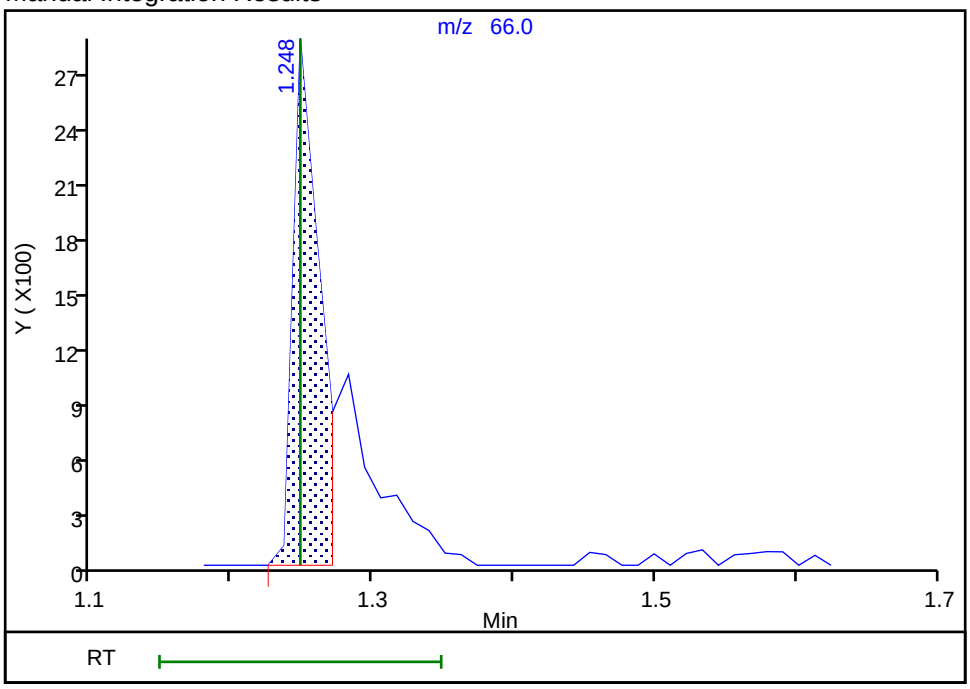
Processing Integration Results

RT: 1.25
Area: 5812
Amount: 24.420761
Amount Units: ug/l



Manual Integration Results

RT: 1.25
Area: 3842
Amount: 16.143249
Amount Units: ug/l



Reviewer: xuyvo, 11-Jul-2018 12:32:34
Audit Action: Split an Integrated Peak Audit Reason: Shouldering

Manual Integration/User Assign Peak Report

TestAmerica Edison

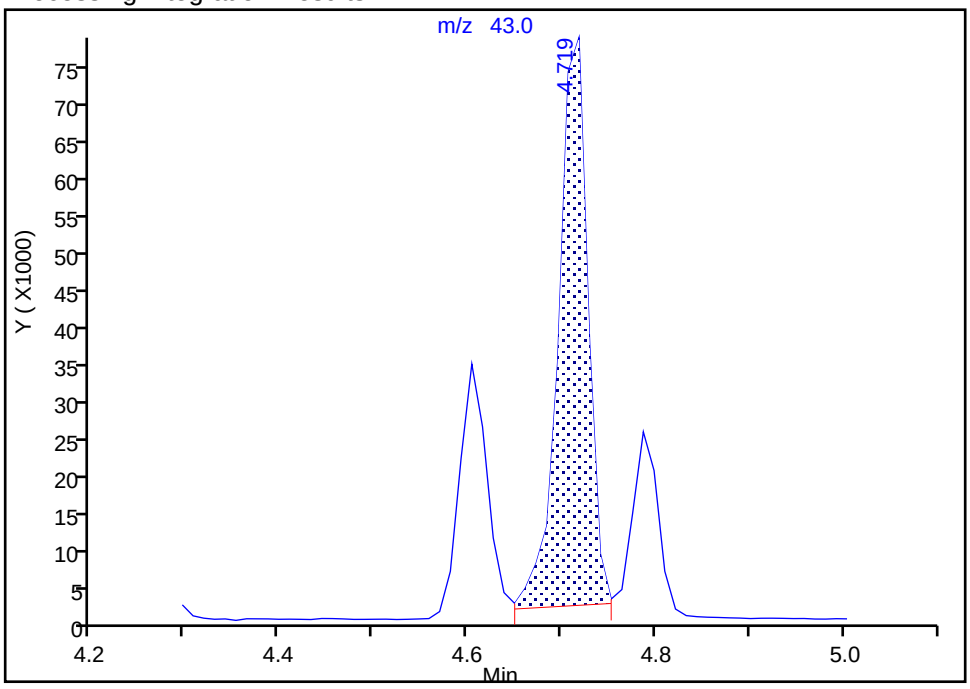
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72288.D
Injection Date: 10-Jul-2018 06:23:30 Instrument ID: CVOAMS8
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

58 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

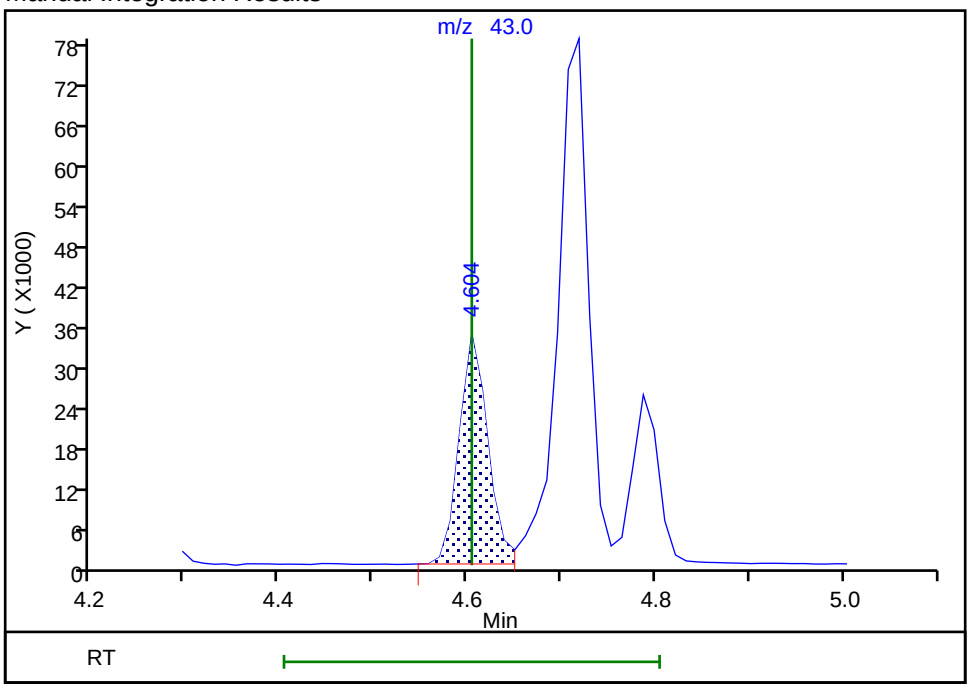
Processing Integration Results

RT: 4.72
Area: 168128
Amount: 765.4897
Amount Units: ug/l



Manual Integration Results

RT: 4.60
Area: 72991
Amount: 332.3293
Amount Units: ug/l



Reviewer: tupayachia, 10-Jul-2018 07:07:14
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

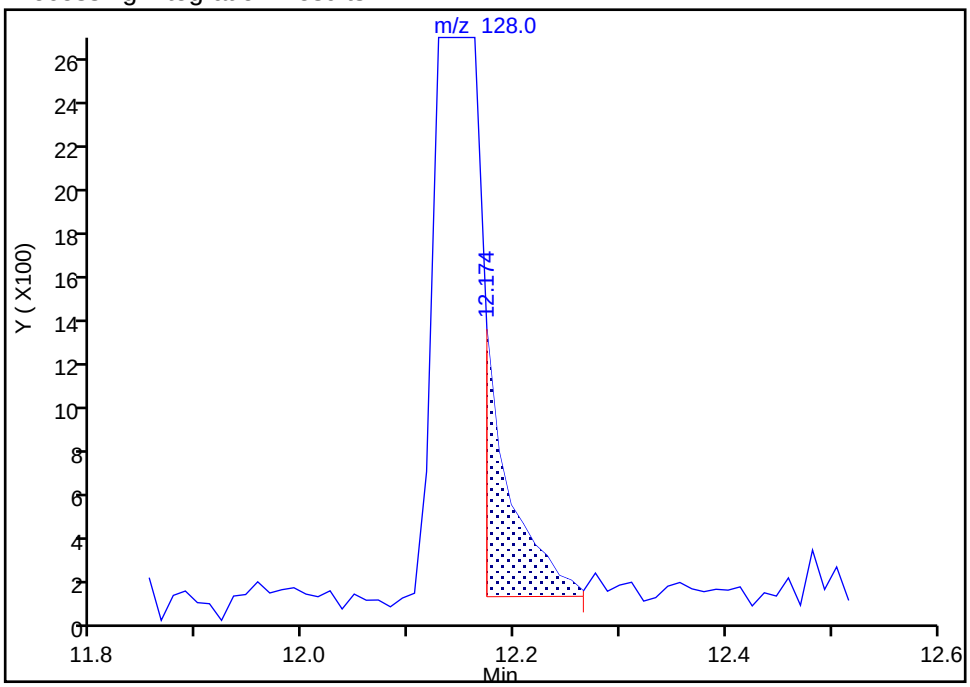
Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72288.D
Injection Date: 10-Jul-2018 06:23:30 Instrument ID: CVOAMS8
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

129 Naphthalene, CAS: 91-20-3

Signal: 1

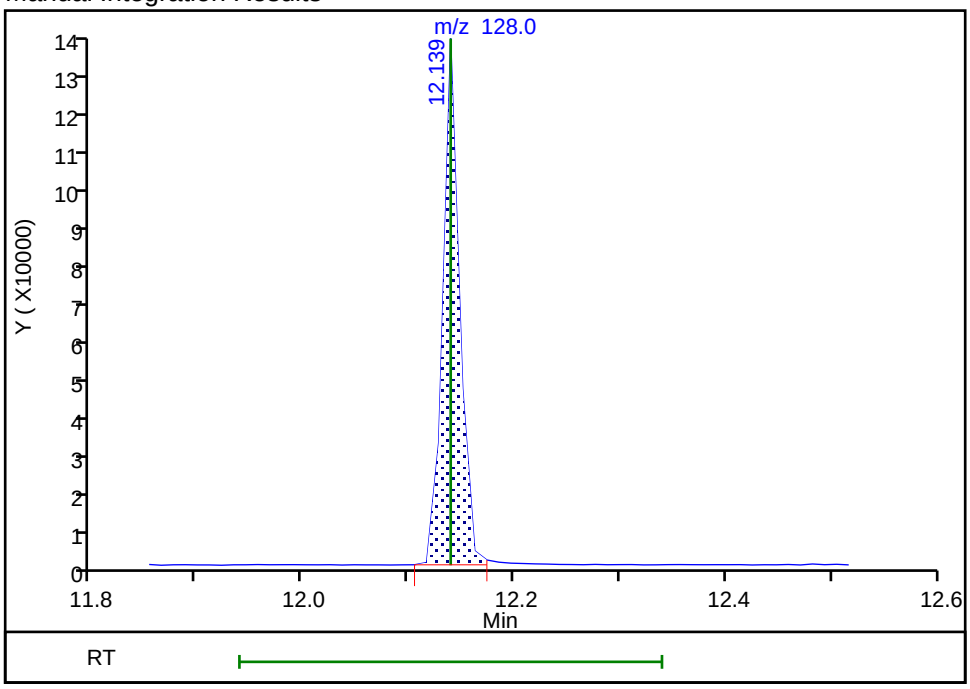
Processing Integration Results

RT: 12.17
Area: 2230
Amount: 0.346187
Amount Units: ug/l



Manual Integration Results

RT: 12.14
Area: 146956
Amount: 22.813568
Amount Units: ug/l



Reviewer: tupayachia, 10-Jul-2018 06:40:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71641.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 26-Jun-2018 20:16:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074397-001
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 27-Jun-2018 12:38:50 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK011

First Level Reviewer: boykink Date: 26-Jun-2018 20:37:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 135 BFB	95	4.415	4.415	0.000	85	56119	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

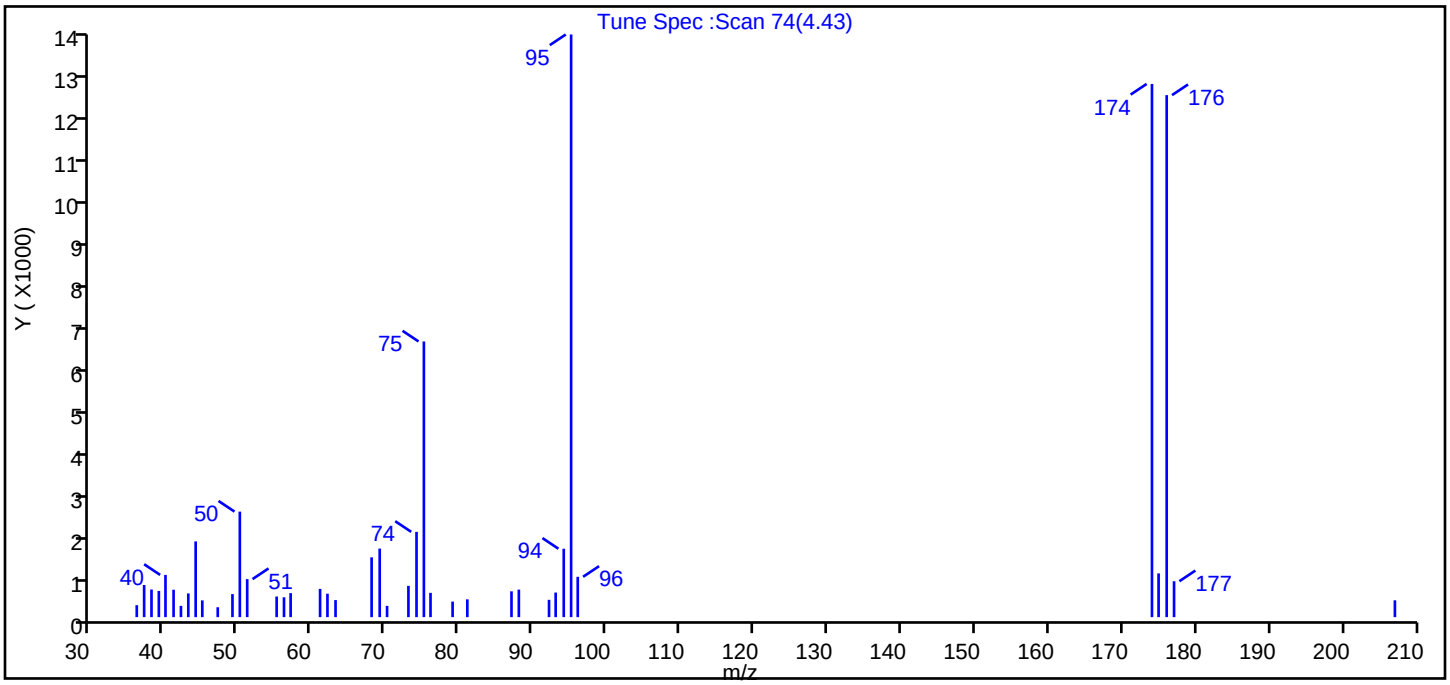
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71641.D
Injection Date: 26-Jun-2018 20:16:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.1
75	30 to 60% of m/z 95	47.3
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	91.5
175	5 to 9% of m/z 174	7.5 (8.2)
176	Greater than 95% but less than 101% of m/z 174	89.6 (97.9)
177	5 to 9% of m/z 176	6.2 (6.9)

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71641.D\8260_W8.rslt\spectra.d
Injection Date: 26-Jun-2018 20:16:30
Spectrum: Tune Spec :Scan 74(4.43)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	271	49.10	523	70.10	256	94.10	1552
37.10	729	50.10	2394	73.00	710	95.10	13219
38.10	627	51.10	863	74.10	1935	96.00	915
39.10	595	55.10	468	75.10	6254	174.00	12097
40.00	958	56.10	451	76.00	551	174.90	992
41.10	622	57.00	545	79.00	353	176.00	11843
42.10	256	61.00	641	81.00	404	177.00	815
43.10	538	62.00	532	87.00	586	207.00	382
44.10	1718	63.10	387	88.00	625		
45.00	380	68.00	1357	92.10	393		
47.10	225	69.10	1555	93.00	558		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72287.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jul-2018 05:40:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075165-001
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 18:44:30 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: tupayachia Date: 10-Jul-2018 05:49:25

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 135 BFB	95	4.416	4.416	0.000	78	61347	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

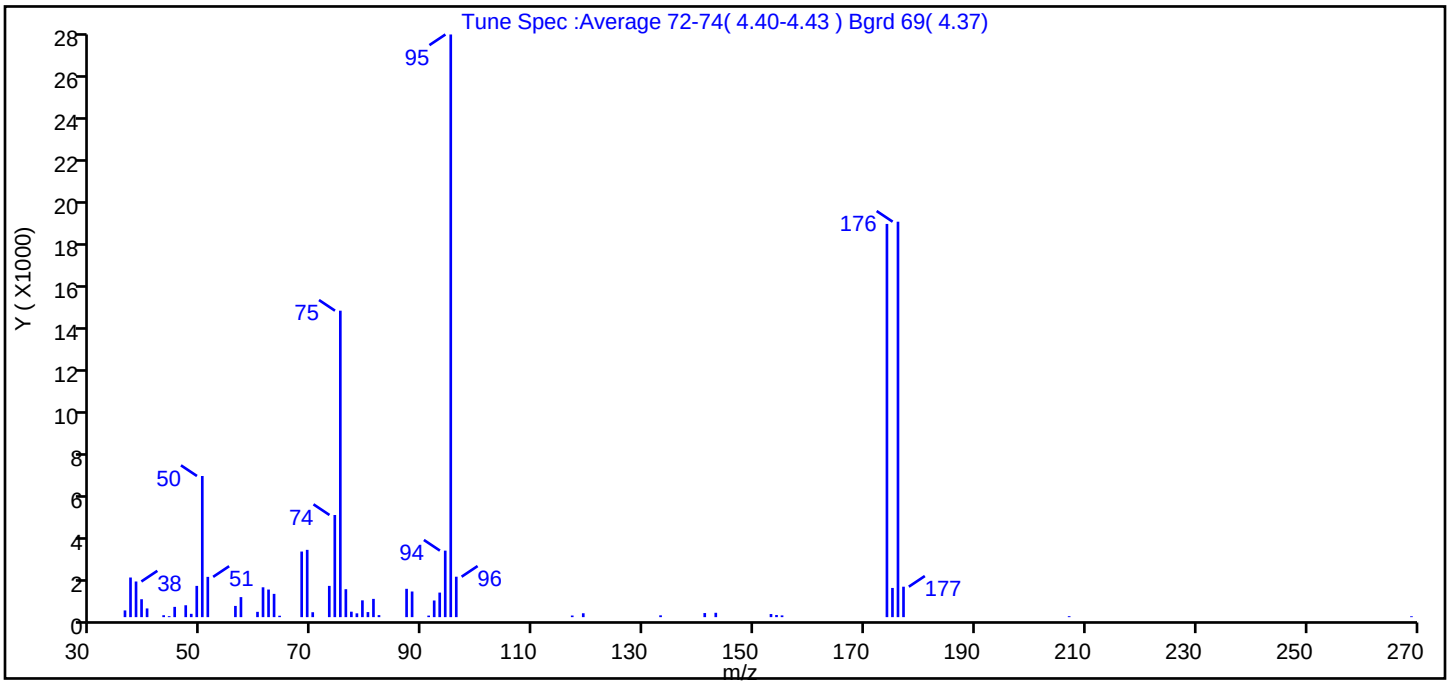
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72287.D
Injection Date: 10-Jul-2018 05:40:30 Instrument ID: CVOAMS8
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 135 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	24.2
75	30 to 60% of m/z 95	52.6
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	67.5
175	5 to 9% of m/z 174	5.0 (7.4)
176	Greater than 95% but less than 101% of m/z 174	67.9 (100.6)
177	5 to 9% of m/z 176	5.2 (7.7)

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72287.D\8260_W8.rslt\spectra.d
Injection Date: 10-Jul-2018 05:40:30
Spectrum: Tune Spec :Average 72-74(4.40-4.43) Bgrd 69(4.37)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 55

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	315	57.00	939	78.00	178	119.00	182
37.00	1858	60.00	249	79.00	787	133.00	85
38.00	1671	61.00	1399	80.00	237	141.00	192
39.00	840	62.00	1294	81.00	856	143.00	204
40.00	408	63.00	1091	82.00	95	153.00	146
43.00	90	64.00	67	87.00	1328	154.00	101
44.00	46	68.00	3075	88.00	1202	155.00	82
45.00	481	69.00	3154	91.00	72	174.00	18432
47.00	557	70.00	231	92.00	781	175.00	1369
48.00	155	73.00	1465	93.00	1151	176.00	18536
49.00	1465	74.00	4788	94.00	3118	177.00	1427
50.00	6616	75.00	14365	95.00	27312	207.00	44
51.00	1888	76.00	1310	96.00	1895	269.00	40
56.00	526	77.00	256	117.00	76		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534856/8

Matrix: Water | Lab File ID: J72294.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534856/8

Matrix: Water | Lab File ID: J72294.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 09:05

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		74-132
460-00-4	4-Bromofluorobenzene	89		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	108		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72294.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Jul-2018 09:05:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: blk
Misc. Info.: 460-0075165-008
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 10-Jul-2018 18:44:41 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: parekhv Date: 10-Jul-2018 18:32:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 27 TBA-d9 (IS)	65	2.844	2.846	-0.002	0	202504	1000.0	1000.0	
* 39 2-Butanone-d5	46	3.871	3.874	-0.003	0	313962	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.328	4.330	-0.002	94	85721	50.0	54.0	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.670	4.673	-0.003	0	119793	50.0	56.1	
* 62 Fluorobenzene	96	4.933	4.924	0.009	97	346626	50.0	50.0	
* 68 1,4-Dioxane-d8	96	5.641	5.643	-0.002	0	18160	1000.0	1000.0	
$ 79 Toluene-d8 (Surr)	98	6.577	6.580	-0.003	98	288878	50.0	49.1	
* 90 Chlorobenzene-d5	117	8.370	8.372	-0.002	91	241458	50.0	50.0	
$ 101 4-Bromofluorobenzene	174	9.797	9.799	-0.002	85	76160	50.0	44.3	
* 117 1,4-Dichlorobenzene-d4	152	10.744	10.735	0.009	98	121027	50.0	50.0	
129 Naphthalene	128	12.160	12.139	0.021	99	7456		1.30	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00177 Amount Added: 1.00 Units: uL Run Reagent

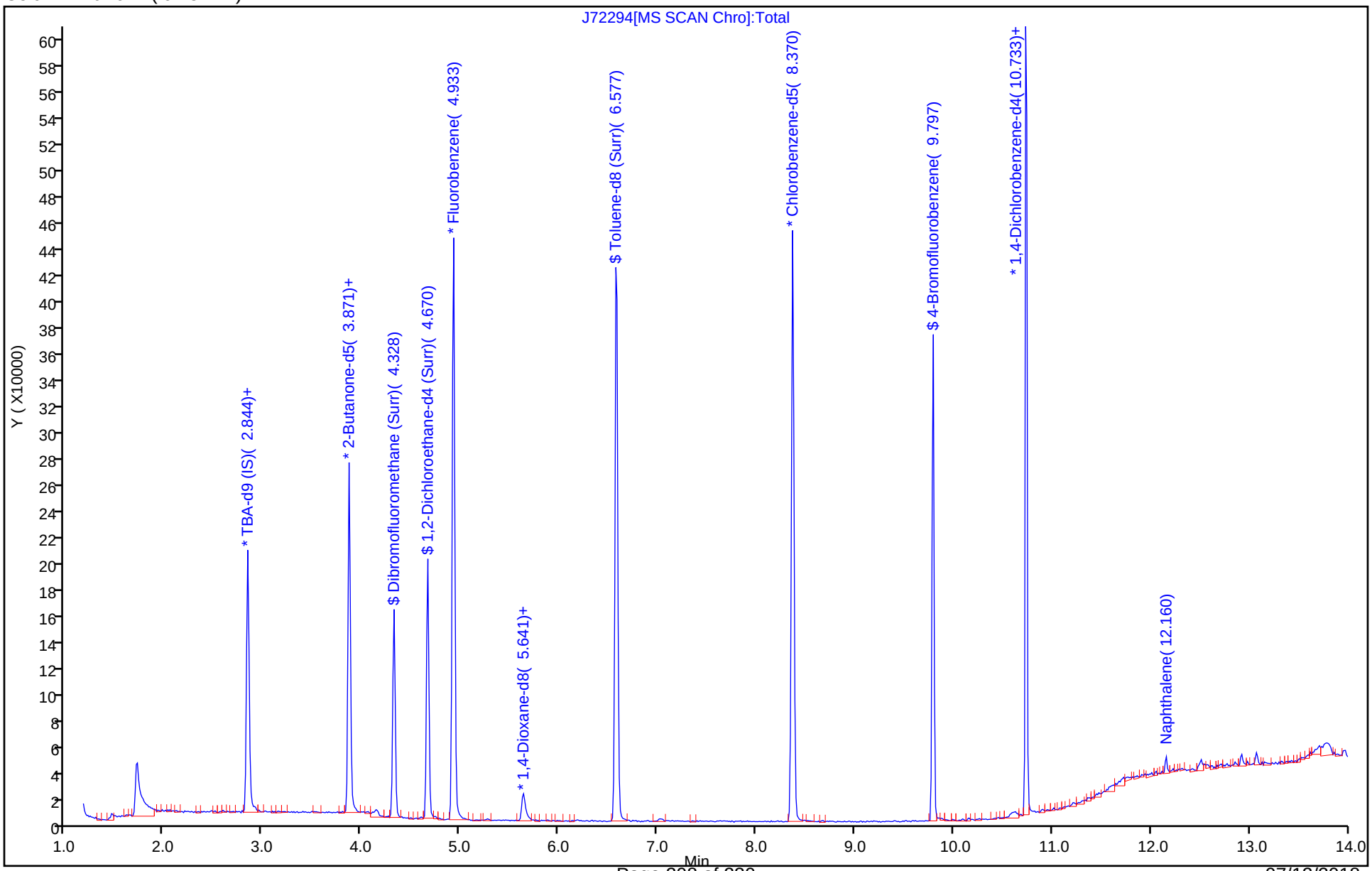
Report Date: 10-Jul-2018 18:44:58 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72294.D

Injection Date:	10-Jul-2018 09:05:30	Instrument ID:	CVOAMS8	Operator ID:	
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260_W8	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



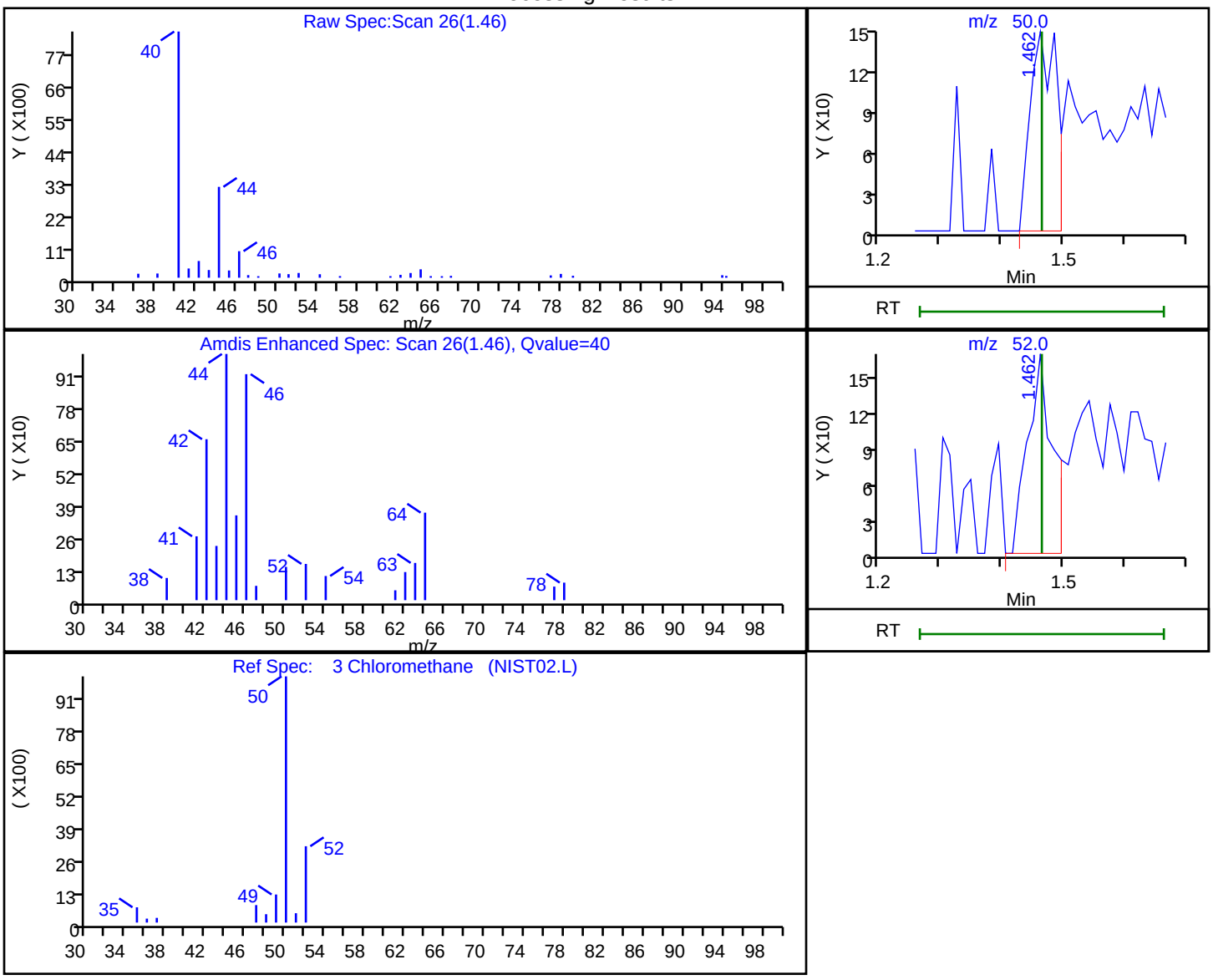
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72294.D
Injection Date: 10-Jul-2018 09:05:30 Instrument ID: CVOAMS8
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

3 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.46	50.00	440	0.149560
1.46	52.00	458	

Reviewer: parekhv, 10-Jul-2018 18:32:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534856/3

Matrix: Water | Lab File ID: J72289.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 06:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.9		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.4		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.1		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.6		1.0	0.43
75-34-3	1,1-Dichloroethane	22.2		1.0	0.26
75-35-4	1,1-Dichloroethene	19.6		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	20.6		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	19.8		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.0		1.0	0.43
107-06-2	1,2-Dichloroethane	21.2		1.0	0.43
78-87-5	1,2-Dichloropropane	20.8		1.0	0.35
541-73-1	1,3-Dichlorobenzene	19.4		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.2		1.0	0.76
78-93-3	2-Butanone (MEK)	74.2		5.0	1.9
591-78-6	2-Hexanone	68.4		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	87.8		5.0	2.7
67-64-1	Acetone	79.3		5.0	5.0
71-43-2	Benzene	20.5		1.0	0.43
75-25-2	Bromoform	20.4		1.0	0.54
74-83-9	Bromomethane	18.1		1.0	1.0
75-15-0	Carbon disulfide	21.6		1.0	0.16
56-23-5	Carbon tetrachloride	21.1		1.0	0.21
108-90-7	Chlorobenzene	19.2		1.0	0.38
124-48-1	Dibromochloromethane	20.3		1.0	0.28
75-00-3	Chloroethane	23.4		1.0	0.32
67-66-3	Chloroform	20.9		1.0	0.33
74-87-3	Chloromethane	19.8		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	18.3		1.0	0.22
110-82-7	Cyclohexane	19.6		1.0	0.32
75-27-4	Bromodichloromethane	20.3		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.3		1.0	0.12
100-41-4	Ethylbenzene	17.9		1.0	0.30
106-93-4	1,2-Dibromoethane	19.1		1.0	0.50
98-82-8	Isopropylbenzene	18.3		1.0	0.34
79-20-9	Methyl acetate	50.0		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534856/3

Matrix: Water | Lab File ID: J72289.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 06:50

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.5		1.0	0.47
108-87-2	Methylcyclohexane	20.0		1.0	0.26
75-09-2	Methylene Chloride	20.7		1.0	0.32
127-18-4	Tetrachloroethene	19.3		1.0	0.25
108-88-3	Toluene	18.8		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	19.2		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	20.2		1.0	0.49
79-01-6	Trichloroethene	18.6		1.0	0.31
75-69-4	Trichlorofluoromethane	22.1		1.0	0.14
75-01-4	Vinyl chloride	21.3		1.0	0.17
1330-20-7	Xylenes, Total	34.6		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	20.4		1.0	0.46
100-42-5	Styrene	18.4		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	110		74-132
460-00-4	4-Bromofluorobenzene	92		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	103		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72289.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Jul-2018 06:50:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075165-003
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 12:33:29 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: tupayachia Date: 10-Jul-2018 07:09:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.257	1.257	0.000	90	4472	20.0	18.9	M
2 Dichlorodifluoromethane	85	1.280	1.280	0.000	99	47710	20.0	20.3	
3 Chloromethane	50	1.462	1.462	0.000	99	61087	20.0	19.8	
4 Vinyl chloride	62	1.519	1.519	0.000	98	55051	20.0	21.3	
5 Butadiene	54	1.531	1.531	0.000	94	51102	20.0	22.0	
6 Bromomethane	94	1.771	1.771	0.000	98	21378	20.0	18.1	
7 Chloroethane	64	1.851	1.851	0.000	98	28912	20.0	23.4	
8 Dichlorofluoromethane	67	2.010	2.010	0.000	93	85883	20.0	23.9	
9 Trichlorofluoromethane	101	2.010	2.010	0.000	92	60332	20.0	22.1	
10 Pentane	72	2.056	2.056	0.000	95	10062	40.0	29.1	
11 Ethanol	46	2.205	2.205	0.000	97	11497	800.0	593.7	a
12 Ethyl ether	59	2.239	2.239	0.000	90	36068	20.0	21.5	
13 2-Methyl-1,3-butadiene	53	2.250	2.250	0.000	95	42636	20.0	25.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.273	2.273	0.000	98	25820	20.0	19.2	
15 1,1,2-Trichloro-1,2,2-trif	101	2.387	2.387	0.000	92	32414	20.0	21.1	
16 Acrolein	56	2.399	2.399	0.000	99	21163	40.0	38.3	
17 1,1-Dichloroethene	96	2.421	2.421	0.000	92	29483	20.0	19.6	
18 Acetone	43	2.513	2.513	0.000	85	81440	100.0	79.3	
19 Iodomethane	142	2.570	2.570	0.000	96	28359	20.0	14.8	
20 Carbon disulfide	76	2.593	2.593	0.000	100	136192	20.0	21.6	
21 Isopropyl alcohol	45	2.604	2.604	0.000	98	35895	200.0	166.4	
22 3-Chloro-1-propene	76	2.718	2.718	0.000	89	23302	20.0	21.2	
23 Cyclopentene	67	2.730	2.730	0.000	96	102332	20.0	21.9	
24 Methyl acetate	43	2.730	2.730	0.000	98	91488	40.0	50.0	
25 Acetonitrile	41	2.798	2.798	0.000	98	88957	200.0	170.7	
26 Methylene Chloride	84	2.844	2.844	0.000	58	41378	20.0	20.7	
* 27 TBA-d9 (IS)	65	2.844	2.844	0.000	0	210547	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.912	2.912	0.000	98	47240	200.0	159.6	
29 Methyl tert-butyl ether	73	2.992	2.992	0.000	96	119665	20.0	21.5	
30 trans-1,2-Dichloroethene	96	3.015	3.015	0.000	95	34059	20.0	19.2	
31 Acrylonitrile	53	3.095	3.095	0.000	94	212840	200.0	148.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.152	3.152	0.000	92	54200	20.0	23.2	
33 Isopropyl ether	45	3.369	3.369	0.000	97	190586	20.0	24.3	
34 1,1-Dichloroethane	63	3.392	3.392	0.000	99	87195	20.0	22.2	
35 Vinyl acetate	43	3.415	3.415	0.000	100	271107	40.0	56.6	
36 2-Chloro-1,3-butadiene	88	3.438	3.438	0.000	95	33922	20.0	21.8	
37 Tert-butyl ethyl ether	59	3.666	3.666	0.000	86	149402	20.0	23.7	
38 2,2-Dichloropropane	79	3.871	3.871	0.000	92	22623	20.0	22.9	
* 39 2-Butanone-d5	46	3.871	3.871	0.000	0	328232	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.894	3.894	0.000	89	40995	20.0	18.3	
41 2-Butanone (MEK)	72	3.928	3.928	0.000	94	23409	100.0	74.2	
42 Ethyl acetate	70	3.928	3.928	0.000	94	9722	40.0	29.0	
43 Methyl acrylate	55	3.974	3.974	0.000	99	47408	20.0	24.4	
44 Propionitrile	54	4.054	4.054	0.000	97	80689	200.0	154.2	
46 Chlorobromomethane	128	4.123	4.123	0.000	92	16961	20.0	17.4	
45 Tetrahydrofuran	72	4.123	4.123	0.000	93	10407	40.0	25.6	
47 Methacrylonitrile	67	4.157	4.157	0.000	98	201013	200.0	231.4	
48 Chloroform	83	4.168	4.168	0.000	96	77823	20.0	20.9	
49 Cyclohexane	84	4.282	4.282	0.000	97	51996	20.0	19.6	
50 1,1,1-Trichloroethane	97	4.305	4.305	0.000	97	62225	20.0	19.9	
$ 51 Dibromofluoromethane (Surr	113	4.328	4.328	0.000	95	86152	50.0	51.7	
52 Carbon tetrachloride	117	4.419	4.419	0.000	97	53533	20.0	21.1	
53 1,1-Dichloropropene	75	4.454	4.454	0.000	91	58157	20.0	19.5	
58 Isobutyl alcohol	43	4.602	4.602	0.000	81	81603	500.0	392.0	a
54 Isooctane	57	4.602	4.602	0.000	70	105633	20.0	22.7	
55 Benzene	78	4.648	4.648	0.000	97	175341	20.0	20.5	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.671	4.671	0.000	0	123447	50.0	55.0	
57 Tert-amyl methyl ether	87	4.716	4.716	0.000	80	35828	20.0	22.2	
59 Isopropyl acetate	43	4.716	4.716	0.000	95	171559	20.0	26.7	
60 1,2-Dichloroethane	62	4.739	4.739	0.000	96	69636	20.0	21.2	
61 n-Heptane	57	4.785	4.785	0.000	97	22788	20.0	22.6	
* 62 Fluorobenzene	96	4.933	4.933	0.000	97	364149	50.0	50.0	
63 n-Butanol	56	5.264	5.264	0.000	98	29294	500.0	298.4	
64 Trichloroethene	95	5.276	5.276	0.000	94	40652	20.0	18.6	
65 Methylcyclohexane	83	5.390	5.390	0.000	91	58572	20.0	20.0	
66 Ethyl acrylate	55	5.413	5.413	0.000	97	123455	20.0	22.4	
67 1,2-Dichloropropane	63	5.561	5.561	0.000	86	51104	20.0	20.8	
* 68 1,4-Dioxane-d8	96	5.641	5.641	0.000	0	21667	1000.0	1000.0	
69 Methyl methacrylate	100	5.652	5.652	0.000	94	19388	40.0	40.0	
70 1,4-Dioxane	88	5.698	5.698	0.000	38	9369	400.0	361.3	
71 Dibromomethane	93	5.698	5.698	0.000	89	29787	20.0	20.7	
72 n-Propyl acetate	43	5.709	5.709	0.000	98	88128	20.0	25.3	
73 Dichlorobromomethane	83	5.846	5.846	0.000	98	62686	20.0	20.3	
74 2-Nitropropane	41	6.189	6.189	0.000	83	31133	40.0	30.6	
75 2-Chloroethyl vinyl ether	63	6.189	6.189	0.000	64	25462	20.0	1374.9	
76 Epichlorohydrin	57	6.303	6.303	0.000	100	86891	400.0	448.3	
77 cis-1,3-Dichloropropene	75	6.349	6.349	0.000	99	73926	20.0	20.4	
78 4-Methyl-2-pentanone (MIBK	43	6.520	6.520	0.000	98	271679	100.0	87.8	
$ 79 Toluene-d8 (Surr)	98	6.577	6.577	0.000	97	321399	50.0	50.1	
80 Toluene	91	6.657	6.657	0.000	93	164994	20.0	18.8	
81 trans-1,3-Dichloropropene	75	7.022	7.022	0.000	97	68593	20.0	20.2	
82 Ethyl methacrylate	69	7.057	7.057	0.000	95	51141	20.0	18.6	
83 1,1,2-Trichloroethane	83	7.239	7.239	0.000	93	35593	20.0	19.6	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.262	7.262	0.000	92	34720	20.0	19.3	
85 1,3-Dichloropropane	76	7.445	7.445	0.000	97	68197	20.0	20.3	
86 2-Hexanone	58	7.513	7.513	0.000	99	84233	100.0	68.4	
87 n-Butyl acetate	43	7.627	7.627	0.000	96	85341	20.0	21.1	
88 Chlorodibromomethane	129	7.673	7.673	0.000	97	42467	20.0	20.3	
89 Ethylene Dibromide	107	7.822	7.822	0.000	98	38970	20.0	19.1	
* 90 Chlorobenzene-d5	117	8.370	8.370	0.000	92	262978	50.0	50.0	
91 Chlorobenzene	112	8.404	8.404	0.000	91	101940	20.0	19.2	
92 Ethylbenzene	106	8.507	8.507	0.000	99	51626	20.0	17.9	
93 1,1,1,2-Tetrachloroethane	131	8.529	8.529	0.000	94	37872	20.0	20.5	
94 m-Xylene & p-Xylene	106	8.666	8.666	0.000	0	62017	20.0	16.8	
96 o-Xylene	106	9.192	9.192	0.000	92	63422	20.0	17.8	
95 n-Butyl acrylate	73	9.192	9.192	0.000	73	31807	20.0	16.2	
97 Styrene	104	9.226	9.226	0.000	91	112728	20.0	18.4	
98 Amyl acetate (mixed isomer	43	9.454	9.454	0.000	87	94187	20.0	18.8	
99 Bromoform	173	9.466	9.466	0.000	93	27099	20.0	20.4	
100 Isopropylbenzene	105	9.591	9.591	0.000	97	157050	20.0	18.3	
$ 101 4-Bromofluorobenzene	174	9.797	9.797	0.000	86	86501	50.0	46.2	
102 Bromobenzene	156	9.922	9.922	0.000	93	40675	20.0	17.5	
103 1,1,2,2-Tetrachloroethane	83	9.979	9.979	0.000	98	55871	20.0	19.4	
104 N-Propylbenzene	91	9.991	9.991	0.000	98	196275	20.0	18.4	
105 1,2,3-Trichloropropane	110	10.014	10.014	0.000	96	13471	20.0	18.3	
106 trans-1,4-Dichloro-2-buten	53	10.036	10.036	0.000	85	19099	20.0	20.6	
107 2-Chlorotoluene	91	10.082	10.082	0.000	97	145372	20.0	18.5	
108 4-Ethyltoluene	105	10.094	10.094	0.000	97	161831	20.0	17.5	
109 1,3,5-Trimethylbenzene	105	10.151	10.151	0.000	91	140598	20.0	18.0	
110 4-Chlorotoluene	91	10.185	10.185	0.000	99	136325	20.0	18.6	
111 Butyl Methacrylate	87	10.253	10.253	0.000	98	51604	20.0	16.4	
112 tert-Butylbenzene	119	10.402	10.402	0.000	90	105385	20.0	18.0	
113 1,2,4-Trimethylbenzene	105	10.459	10.459	0.000	99	147230	20.0	17.7	
114 sec-Butylbenzene	105	10.573	10.573	0.000	98	162029	20.0	19.3	
115 4-Isopropyltoluene	119	10.676	10.676	0.000	97	134748	20.0	19.2	
116 1,3-Dichlorobenzene	146	10.687	10.687	0.000	76	75185	20.0	19.4	
* 117 1,4-Dichlorobenzene-d4	152	10.733	10.733	0.000	98	137082	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.756	10.756	0.000	93	78062	20.0	19.2	
134 1,2,3-Trimethylbenzene	105	10.767	10.767	0.000	99	162345	20.0	19.0	
119 Benzyl chloride	91	10.858	10.858	0.000	98	106919	20.0	21.1	
120 2,3-Dihydroindene	117	10.904	10.904	0.000	94	152637	20.0	18.8	
121 p-Diethylbenzene	119	10.950	10.950	0.000	92	74659	20.0	19.0	
122 n-Butylbenzene	92	10.961	10.961	0.000	96	71960	20.0	19.7	
123 1,2-Dichlorobenzene	146	11.018	11.018	0.000	95	76098	20.0	19.0	
124 1,2,4,5-Tetramethylbenzene	119	11.441	11.441	0.000	96	138873	20.0	19.3	
125 1,2-Dibromo-3-Chloropropan	155	11.521	11.521	0.000	92	7764	20.0	19.8	
126 1,3,5-Trichlorobenzene	180	11.601	11.601	0.000	96	51300	20.0	20.6	
127 1,2,4-Trichlorobenzene	180	11.977	11.977	0.000	94	46343	20.0	20.6	
128 Hexachlorobutadiene	225	12.046	12.046	0.000	94	18115	20.0	21.8	
129 Naphthalene	128	12.149	12.149	0.000	99	158465	20.0	24.5	
130 1,2,3-Trichlorobenzene	180	12.297	12.297	0.000	95	41614	20.0	22.9	
S 131 1,2-Dichloroethene, Total	100				0		40.0	37.5	
S 132 Xylenes, Total	100				0		40.0	34.6	
S 133 Total BTEX	1				0		100.0	91.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 12:33:33 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72289.D

Injection Date: 10-Jul-2018 06:50:30 Instrument ID: CVOAMS8 Operator ID:

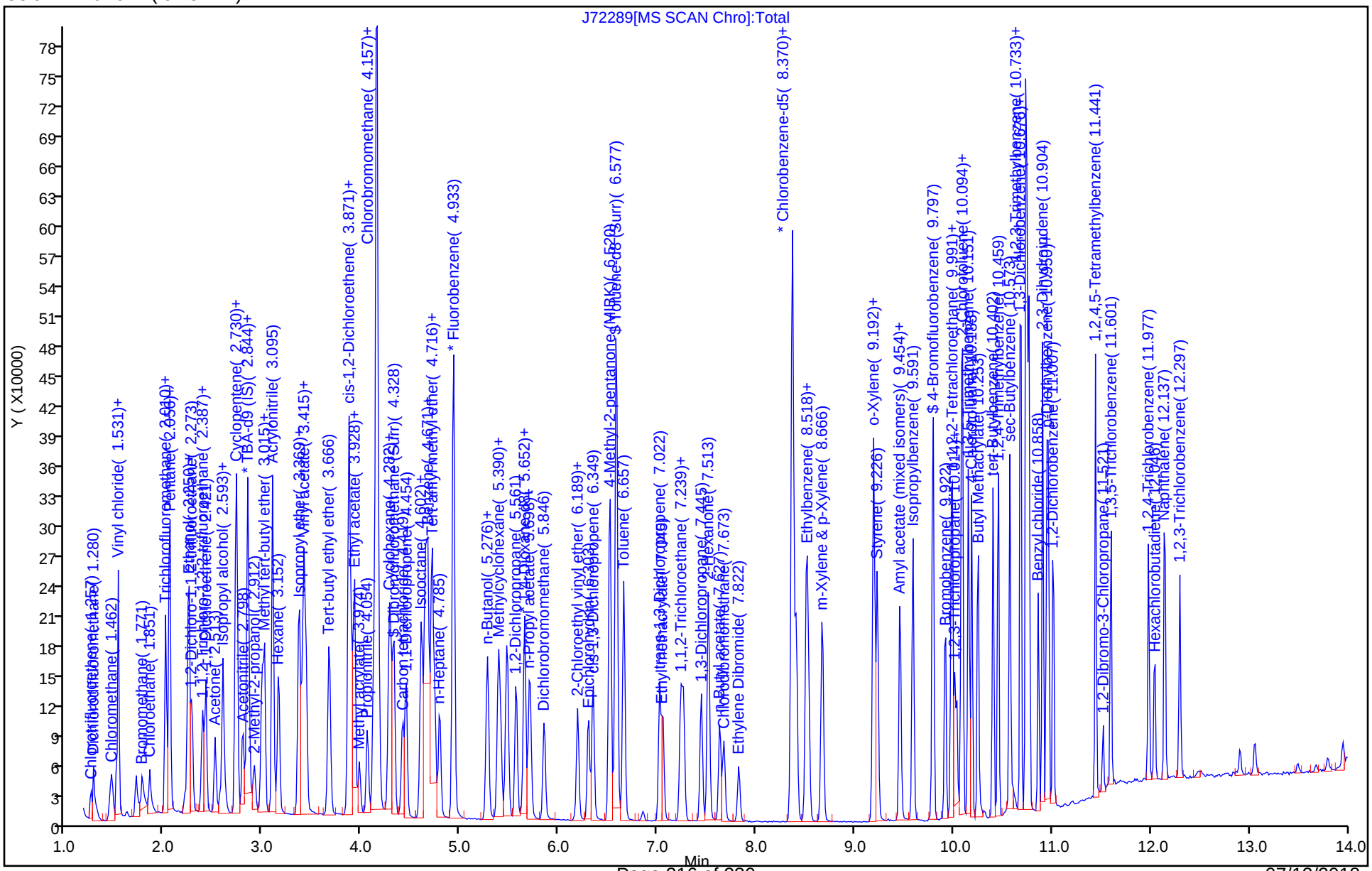
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534856/4

Matrix: Water | Lab File ID: J72290.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.8		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.9		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.6		1.0	0.31
79-00-5	1,1,2-Trichloroethane	19.7		1.0	0.43
75-34-3	1,1-Dichloroethane	23.0		1.0	0.26
75-35-4	1,1-Dichloroethene	19.8		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	20.7		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.38
95-50-1	1,2-Dichlorobenzene	19.1		1.0	0.43
107-06-2	1,2-Dichloroethane	21.8		1.0	0.43
78-87-5	1,2-Dichloropropane	21.3		1.0	0.35
541-73-1	1,3-Dichlorobenzene	20.4		1.0	0.34
106-46-7	1,4-Dichlorobenzene	19.8		1.0	0.76
78-93-3	2-Butanone (MEK)	77.6		5.0	1.9
591-78-6	2-Hexanone	69.3		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	90.6		5.0	2.7
67-64-1	Acetone	80.8		5.0	5.0
71-43-2	Benzene	20.7		1.0	0.43
75-25-2	Bromoform	20.7		1.0	0.54
74-83-9	Bromomethane	20.9		1.0	1.0
75-15-0	Carbon disulfide	22.0		1.0	0.16
56-23-5	Carbon tetrachloride	21.3		1.0	0.21
108-90-7	Chlorobenzene	19.3		1.0	0.38
124-48-1	Dibromochloromethane	20.4		1.0	0.28
75-00-3	Chloroethane	23.2		1.0	0.32
67-66-3	Chloroform	21.4		1.0	0.33
74-87-3	Chloromethane	19.4		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	18.4		1.0	0.22
110-82-7	Cyclohexane	20.3		1.0	0.32
75-27-4	Bromodichloromethane	21.0		1.0	0.34
75-71-8	Dichlorodifluoromethane	20.2		1.0	0.12
100-41-4	Ethylbenzene	18.0		1.0	0.30
106-93-4	1,2-Dibromoethane	19.2		1.0	0.50
98-82-8	Isopropylbenzene	19.0		1.0	0.34
79-20-9	Methyl acetate	51.2		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159396-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-534856/4

Matrix: Water | Lab File ID: J72290.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 07:17

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534856 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	22.5		1.0	0.47
108-87-2	Methylcyclohexane	20.3		1.0	0.26
75-09-2	Methylene Chloride	21.2		1.0	0.32
127-18-4	Tetrachloroethene	19.3		1.0	0.25
108-88-3	Toluene	19.3		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	20.3		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	20.9		1.0	0.49
79-01-6	Trichloroethene	19.4		1.0	0.31
75-69-4	Trichlorofluoromethane	21.3		1.0	0.14
75-01-4	Vinyl chloride	20.4		1.0	0.17
1330-20-7	Xylenes, Total	35.7		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	20.7		1.0	0.46
100-42-5	Styrene	18.7		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		74-132
460-00-4	4-Bromofluorobenzene	93		77-124
2037-26-5	Toluene-d8 (Surr)	100		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72290.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 10-Jul-2018 07:17:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075165-004
Operator ID: Instrument ID: CVOAMS8

Method: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\8260_W8.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 12:34:18 Calib Date: 26-Jun-2018 23:56:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS8\20180626-74417.b\J71649.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK021

First Level Reviewer: parekhv Date: 10-Jul-2018 18:31:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	66	1.257	1.257	0.000	89	5024	20.0	21.2	M
2 Dichlorodifluoromethane	85	1.280	1.282	-0.002	100	47612	20.0	20.2	
3 Chloromethane	50	1.463	1.465	-0.002	99	60221	20.0	19.4	
4 Vinyl chloride	62	1.520	1.510	0.010	99	52987	20.0	20.4	
5 Butadiene	54	1.531	1.533	-0.002	93	49673	20.0	21.4	
6 Bromomethane	94	1.771	1.773	-0.002	98	24630	20.0	20.9	
7 Chloroethane	64	1.851	1.842	0.009	98	28663	20.0	23.2	
8 Dichlorofluoromethane	67	2.011	2.013	-0.002	93	85100	20.0	23.6	
9 Trichlorofluoromethane	101	2.011	2.013	-0.002	90	58140	20.0	21.3	
10 Pentane	72	2.057	2.047	0.010	96	10559	40.0	30.4	
11 Ethanol	46	2.205	2.207	-0.002	95	11082	800.0	569.4	a
12 Ethyl ether	59	2.239	2.230	0.009	89	37760	20.0	22.5	
13 2-Methyl-1,3-butadiene	53	2.251	2.241	0.010	95	43612	20.0	26.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.274	2.275	-0.001	98	26963	20.0	20.1	
15 1,1,2-Trichloro-1,2,2-trif	101	2.388	2.378	0.010	91	33184	20.0	21.6	
16 Acrolein	56	2.399	2.401	-0.002	97	21147	40.0	38.1	
17 1,1-Dichloroethene	96	2.422	2.412	0.010	92	29900	20.0	19.8	
18 Acetone	43	2.513	2.515	-0.002	84	84281	100.0	80.8	
19 Iodomethane	142	2.570	2.572	-0.002	97	32374	20.0	16.9	
20 Carbon disulfide	76	2.593	2.595	-0.002	100	138664	20.0	22.0	
21 Isopropyl alcohol	45	2.605	2.606	-0.001	98	38283	200.0	176.6	
22 3-Chloro-1-propene	76	2.719	2.721	-0.002	89	24741	20.0	22.4	
23 Cyclopentene	67	2.730	2.732	-0.002	96	106073	20.0	22.7	
24 Methyl acetate	43	2.730	2.732	-0.002	97	93850	40.0	51.2	
25 Acetonitrile	41	2.787	2.789	-0.002	98	88939	200.0	169.7	
26 Methylene Chloride	84	2.844	2.846	-0.002	57	42602	20.0	21.2	
* 27 TBA-d9 (IS)	65	2.844	2.846	-0.002	0	211631	1000.0	1000.0	
28 2-Methyl-2-propanol	59	2.913	2.915	-0.002	98	49881	200.0	167.7	
29 Methyl tert-butyl ether	73	2.993	2.995	-0.002	96	125616	20.0	22.5	
30 trans-1,2-Dichloroethene	96	3.016	3.017	-0.001	96	35981	20.0	20.3	
31 Acrylonitrile	53	3.096	3.097	-0.001	93	210834	200.0	146.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	57	3.153	3.154	-0.001	92	54086	20.0	23.1	
33 Isopropyl ether	45	3.370	3.360	0.010	97	198170	20.0	25.3	
34 1,1-Dichloroethane	63	3.392	3.394	-0.002	99	90524	20.0	23.0	
35 Vinyl acetate	43	3.415	3.417	-0.002	100	276136	40.0	57.5	
36 2-Chloro-1,3-butadiene	88	3.438	3.440	-0.002	95	33162	20.0	21.3	
37 Tert-butyl ethyl ether	59	3.666	3.668	-0.002	86	151896	20.0	24.1	
38 2,2-Dichloropropane	79	3.872	3.862	0.010	92	22307	20.0	22.5	
* 39 2-Butanone-d5	46	3.872	3.874	-0.002	0	332993	250.0	250.0	
40 cis-1,2-Dichloroethene	96	3.895	3.897	-0.002	89	41322	20.0	18.4	
41 2-Butanone (MEK)	72	3.929	3.931	-0.002	94	24831	100.0	77.6	
42 Ethyl acetate	70	3.929	3.931	-0.002	94	10748	40.0	31.6	
43 Methyl acrylate	55	3.975	3.976	-0.001	99	48062	20.0	24.7	
44 Propionitrile	54	4.055	4.056	-0.001	97	81277	200.0	154.5	
46 Chlorobromomethane	128	4.123	4.113	0.010	92	18408	20.0	18.9	
45 Tetrahydrofuran	72	4.123	4.125	-0.002	91	10932	40.0	26.5	
47 Methacrylonitrile	67	4.146	4.148	-0.002	98	207375	200.0	238.3	
48 Chloroform	83	4.169	4.171	-0.002	96	79869	20.0	21.4	
49 Cyclohexane	84	4.283	4.273	0.010	97	53817	20.0	20.3	
50 1,1,1-Trichloroethane	97	4.306	4.296	0.010	97	65230	20.0	20.8	
$ 51 Dibromofluoromethane (Surr	113	4.329	4.330	-0.001	94	87867	50.0	52.6	
52 Carbon tetrachloride	117	4.420	4.410	0.010	97	54012	20.0	21.3	
53 1,1-Dichloropropene	75	4.454	4.445	0.009	92	58820	20.0	19.6	
58 Isobutyl alcohol	43	4.603	4.604	-0.001	81	84854	500.0	405.6	
54 Isooctane	57	4.603	4.604	-0.001	70	109366	20.0	23.4	
55 Benzene	78	4.648	4.639	0.009	98	179928	20.0	20.7	
$ 56 1,2-Dichloroethane-d4 (Sur	65	4.671	4.673	-0.002	0	125125	50.0	55.6	
57 Tert-amyl methyl ether	87	4.717	4.719	-0.002	80	36176	20.0	22.4	
59 Isopropyl acetate	43	4.717	4.719	-0.002	95	171462	20.0	26.6	
60 1,2-Dichloroethane	62	4.740	4.741	-0.001	96	71694	20.0	21.8	
61 n-Heptane	57	4.797	4.787	0.010	97	23003	20.0	22.7	
* 62 Fluorobenzene	96	4.934	4.924	0.010	97	364900	50.0	50.0	
63 n-Butanol	56	5.265	5.267	-0.002	98	32122	500.0	325.6	
64 Trichloroethene	95	5.276	5.278	-0.002	93	42325	20.0	19.4	
65 Methylcyclohexane	83	5.390	5.392	-0.002	92	59632	20.0	20.3	
66 Ethyl acrylate	55	5.413	5.404	0.009	97	127085	20.0	23.0	
67 1,2-Dichloropropane	63	5.562	5.563	-0.001	86	52315	20.0	21.3	
* 68 1,4-Dioxane-d8	96	5.641	5.643	-0.002	0	21369	1000.0	1000.0	
69 Methyl methacrylate	100	5.653	5.655	-0.002	94	20178	40.0	41.6	
70 1,4-Dioxane	88	5.699	5.700	-0.001	38	10340	400.0	404.3	
71 Dibromomethane	93	5.699	5.700	-0.001	90	30577	20.0	21.2	
72 n-Propyl acetate	43	5.710	5.712	-0.002	98	90323	20.0	25.9	
73 Dichlorobromomethane	83	5.847	5.849	-0.002	97	64868	20.0	21.0	
74 2-Nitropropane	41	6.189	6.191	-0.002	85	33662	40.0	32.9	
75 2-Chloroethyl vinyl ether	63	6.189	6.191	-0.002	64	26173	20.0	1410.4	
76 Epichlorohydrin	57	6.304	6.294	0.010	100	88583	400.0	450.6	
77 cis-1,3-Dichloropropene	75	6.349	6.340	0.009	99	75982	20.0	20.7	
78 4-Methyl-2-pentanone (MIBK	43	6.521	6.511	0.010	98	284357	100.0	90.6	
$ 79 Toluene-d8 (Surr)	98	6.578	6.580	-0.002	98	323808	50.0	49.9	
80 Toluene	91	6.658	6.659	-0.001	93	171004	20.0	19.3	
81 trans-1,3-Dichloropropene	75	7.023	7.025	-0.002	97	71928	20.0	20.9	
82 Ethyl methacrylate	69	7.057	7.048	0.009	97	53368	20.0	19.4	
83 1,1,2-Trichloroethane	83	7.240	7.230	0.010	93	36206	20.0	19.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 Tetrachloroethene	166	7.263	7.265	-0.002	92	35021	20.0	19.3	
85 1,3-Dichloropropane	76	7.445	7.447	-0.002	96	69852	20.0	20.5	
86 2-Hexanone	58	7.514	7.516	-0.002	98	86662	100.0	69.3	
87 n-Butyl acetate	43	7.628	7.630	-0.002	96	89012	20.0	21.7	
88 Chlorodibromomethane	129	7.674	7.676	-0.002	96	43213	20.0	20.4	
89 Ethylene Dibromide	107	7.822	7.824	-0.002	98	39707	20.0	19.2	
* 90 Chlorobenzene-d5	117	8.370	8.372	-0.002	91	266243	50.0	50.0	
91 Chlorobenzene	112	8.404	8.406	-0.002	90	104007	20.0	19.3	
92 Ethylbenzene	106	8.507	8.509	-0.002	100	52757	20.0	18.0	
93 1,1,1,2-Tetrachloroethane	131	8.530	8.532	-0.002	93	38424	20.0	20.5	
94 m-Xylene & p-Xylene	106	8.667	8.669	-0.002	0	64783	20.0	17.4	
96 o-Xylene	106	9.192	9.194	-0.002	92	66149	20.0	18.4	
95 n-Butyl acrylate	73	9.192	9.194	-0.002	75	33695	20.0	16.9	
97 Styrene	104	9.226	9.228	-0.002	92	116412	20.0	18.7	
98 Amyl acetate (mixed isomer	43	9.455	9.457	-0.002	87	98417	20.0	19.4	
99 Bromoform	173	9.466	9.468	-0.002	93	27911	20.0	20.7	
100 Isopropylbenzene	105	9.592	9.594	-0.002	97	164529	20.0	19.0	
$ 101 4-Bromofluorobenzene	174	9.797	9.799	-0.002	85	87944	50.0	46.4	
102 Bromobenzene	156	9.923	9.913	0.010	92	43156	20.0	18.4	
103 1,1,2,2-Tetrachloroethane	83	9.980	9.970	0.010	98	57763	20.0	19.9	
104 N-Propylbenzene	91	9.991	9.993	-0.002	98	200601	20.0	18.6	
105 1,2,3-Trichloropropane	110	10.014	10.016	-0.002	96	14188	20.0	19.0	
106 trans-1,4-Dichloro-2-buten	53	10.037	10.039	-0.002	82	20466	20.0	21.9	
107 2-Chlorotoluene	91	10.083	10.084	-0.001	96	151293	20.0	19.1	
108 4-Ethyltoluene	105	10.094	10.096	-0.002	96	167429	20.0	17.9	
109 1,3,5-Trimethylbenzene	105	10.151	10.153	-0.002	91	143145	20.0	18.1	
110 4-Chlorotoluene	91	10.185	10.187	-0.002	99	137175	20.0	18.5	
111 Butyl Methacrylate	87	10.254	10.244	0.010	97	52575	20.0	16.5	
112 tert-Butylbenzene	119	10.402	10.404	-0.002	90	109423	20.0	18.5	
113 1,2,4-Trimethylbenzene	105	10.459	10.450	0.009	99	149928	20.0	17.8	
114 sec-Butylbenzene	105	10.574	10.575	-0.001	98	163444	20.0	19.3	
115 4-Isopropyltoluene	119	10.676	10.678	-0.002	97	138925	20.0	19.6	
116 1,3-Dichlorobenzene	146	10.688	10.678	0.010	77	80245	20.0	20.4	
* 117 1,4-Dichlorobenzene-d4	152	10.733	10.735	-0.002	98	138473	50.0	50.0	
118 1,4-Dichlorobenzene	146	10.756	10.758	-0.002	94	81318	20.0	19.8	
134 1,2,3-Trimethylbenzene	105	10.768	10.769	-0.001	99	169361	20.0	19.7	
119 Benzyl chloride	91	10.859	10.861	-0.002	98	108843	20.0	21.3	
120 2,3-Dihydroindene	117	10.905	10.906	-0.001	94	158930	20.0	19.4	
121 p-Diethylbenzene	119	10.950	10.952	-0.002	92	76282	20.0	19.2	
122 n-Butylbenzene	92	10.962	10.964	-0.002	97	77162	20.0	21.0	
123 1,2-Dichlorobenzene	146	11.019	11.009	0.010	94	77363	20.0	19.1	
124 1,2,4,5-Tetramethylbenzene	119	11.453	11.443	0.010	97	139686	20.0	19.2	
125 1,2-Dibromo-3-Chloropropan	155	11.521	11.512	0.009	89	7905	20.0	20.0	
126 1,3,5-Trichlorobenzene	180	11.601	11.591	0.010	95	53281	20.0	21.2	
127 1,2,4-Trichlorobenzene	180	11.989	11.980	0.009	94	46996	20.0	20.7	
128 Hexachlorobutadiene	225	12.046	12.037	0.009	91	18301	20.0	21.8	
129 Naphthalene	128	12.149	12.139	0.010	98	160712	20.0	24.6	
130 1,2,3-Trichlorobenzene	180	12.309	12.299	0.010	94	42304	20.0	23.1	
S 131 1,2-Dichloroethene, Total	100				0		40.0	38.7	
S 132 Xylenes, Total	100				0		40.0	35.7	
S 133 Total BTEX	1				0		100.0	93.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00268	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00177	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 12:34:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS8\20180710-75165.b\J72290.D

Injection Date: 10-Jul-2018 07:17:30 Instrument ID: CVOAMS8 Operator ID:

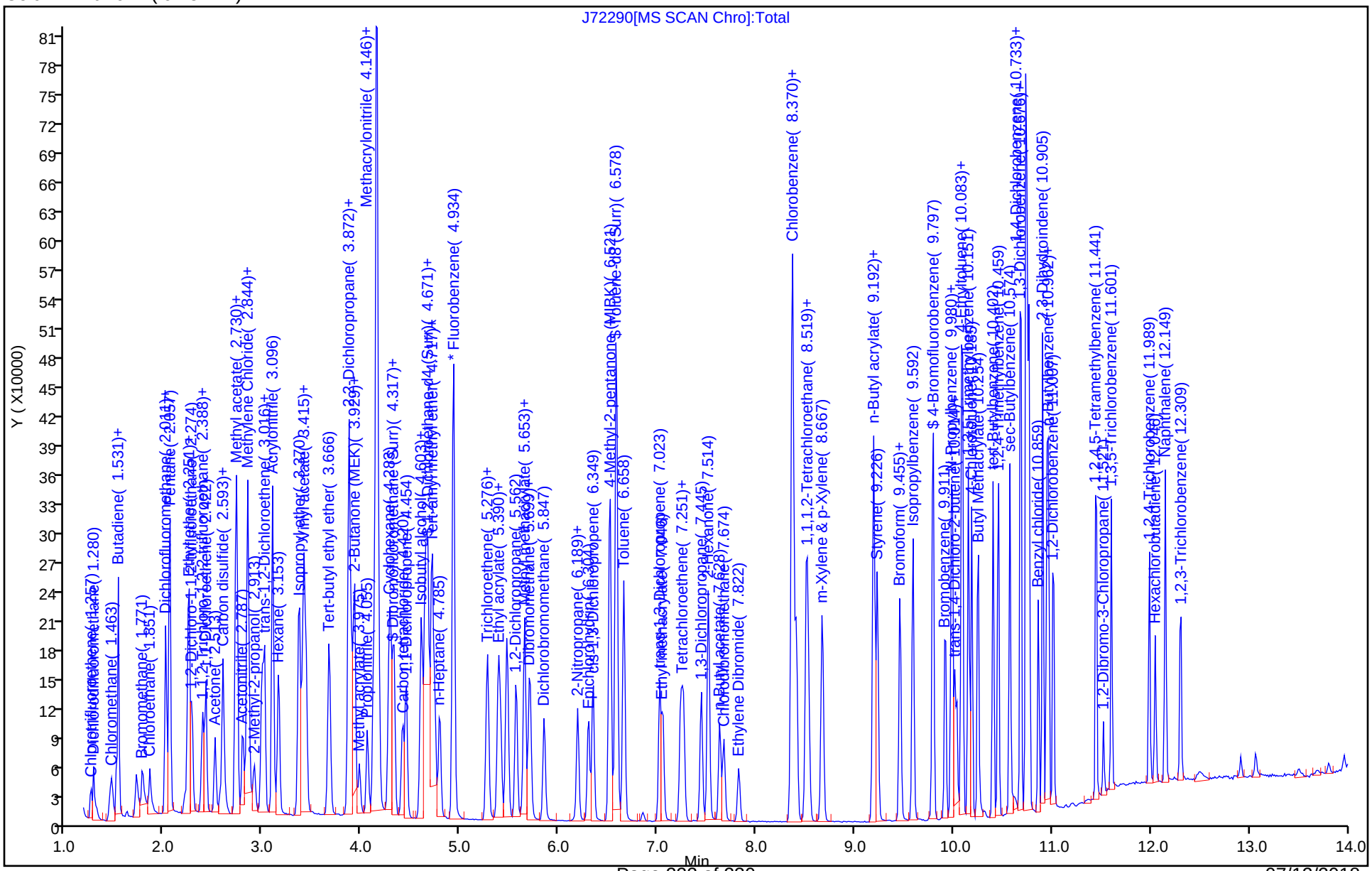
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260_W8 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Instrument ID: CVOAMS8 Start Date: 06/26/2018 20:16

Analysis Batch Number: 531219 End Date: 06/27/2018 07:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-531219/1		06/26/2018 20:16	1	J71641.D	Rtx-624 0.25(mm)
STD7 460-531219/3 IC		06/26/2018 21:14	1	J71643.D	Rtx-624 0.25(mm)
STD1 460-531219/4 IC		06/26/2018 21:41	1	J71644.D	Rtx-624 0.25(mm)
STD5 460-531219/5 IC		06/26/2018 22:08	1	J71645.D	Rtx-624 0.25(mm)
STD20 460-531219/6 ICIS		06/26/2018 22:35	1	J71646.D	Rtx-624 0.25(mm)
STD50 460-531219/7 IC		06/26/2018 23:02	1	J71647.D	Rtx-624 0.25(mm)
STD200 460-531219/8 IC		06/26/2018 23:29	1	J71648.D	Rtx-624 0.25(mm)
STD500 460-531219/9 IC		06/26/2018 23:56	1	J71649.D	Rtx-624 0.25(mm)
ICV 460-531219/14		06/27/2018 02:10	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 02:37	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 03:04	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 04:25	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 04:52	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 05:19	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 05:46	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 06:13	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 06:39	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 07:06	1		Rtx-624 0.25(mm)
ZZZZZ		06/27/2018 07:33	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Instrument ID: CVOAMS8 Start Date: 07/10/2018 05:40

Analysis Batch Number: 534856 End Date: 07/10/2018 17:18

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534856/1		07/10/2018 05:40	1	J72287.D	Rtx-624 0.25(mm)
CCVIS 460-534856/2		07/10/2018 06:23	1	J72288.D	Rtx-624 0.25(mm)
LCS 460-534856/3		07/10/2018 06:50	1	J72289.D	Rtx-624 0.25(mm)
LCSD 460-534856/4		07/10/2018 07:17	1	J72290.D	Rtx-624 0.25(mm)
MB 460-534856/8		07/10/2018 09:05	1	J72294.D	Rtx-624 0.25(mm)
460-159396-1		07/10/2018 09:32	1	J72295.D	Rtx-624 0.25(mm)
460-159396-2		07/10/2018 09:59	1	J72296.D	Rtx-624 0.25(mm)
460-159396-3		07/10/2018 10:26	1	J72297.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 11:47	10		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 12:41	25		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 17:18	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159396-1

SDG No.:

Batch Number: 534856 Batch Start Date: 07/10/18 05:40 Batch Analyst: Tupayachi, Audberto

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00119	8260MIX1COMB 00082	8260SURR250 00177	ACROLEIN W 00078
BFB 460-534856/1		8260C		5 mL	5 mL				
CCVIS 460-534856/2		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-534856/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCSD 460-534856/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-534856/8		8260C		5 mL	5 mL	1 uL		1 uL	
460-159396-B-1	PDI-TB-06272018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159396-B-2	PDI-FB-06272018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159396-B-3	PDI-17-WG-75-062 72018	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00268				
BFB 460-534856/1		8260C		1 uL					
CCVIS 460-534856/2		8260C			20 uL				
LCS 460-534856/3		8260C			20 uL				
LCSD 460-534856/4		8260C			20 uL				
MB 460-534856/8		8260C							
460-159396-B-1	PDI-TB-06272018	8260C	T						
460-159396-B-2	PDI-FB-06272018	8260C	T						
460-159396-B-3	PDI-17-WG-75-062 72018	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Frank Robinson

NYSC 460501

460-159396 Chain of Custody

07/12/2018

Page 228 of 230

Amy Picunas		becky.mason@...	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159396
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days):		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-TB-06272018	6/27/18	—	—	Water			✓					3	Trip Blank 1
POI-FB-06272018	6/27/18	0920	—	Water			✓					3	Field Blank 2
POI-17-SWG-75-06272018	6/27/18	1320	G	Water			✓					3	3
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

SHORT HOLD

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/27/18 1325	Company: CDM	Received by:		Date/Time: 6/27/18 1325	Company: TA	
Relinquished by:	Date/Time: 6/27/18 1615	Company: TA	Received by:		Date/Time: 6/27/18 1912	Company: FedEx	
Relinquished by:	Date/Time: 6/27/18 1940	Company: FedEx	Received by:		Date/Time: 6/27/18 1940	Company: FedEx	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 08/04/2016

2.1 / 2.1 IR #1 NOC

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 169396

Number of Coolers: 1 | IR Gun #: 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.1 °C	2.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/21/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159396-1

Login Number: 159396

List Source: TestAmerica Edison

List Number: 1

Creator: Merriweather, Morgan A

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159396-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/12/2018 1:52:39 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 10
QC Sample Results 11
QC Association Summary 15
Lab Chronicle 16
Certification Summary 17
Method Summary 18
Sample Summary 19
Chain of Custody 20
Receipt Checklists 22

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 460-159396-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159396-1

Receipt
The samples were received on 6/27/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1º C.

GC/MS VOA
Method 8260C: The continuing calibration verification (CCV) analyzed in batch 460-534856 was outside the method criteria for the following analytes: Bromomethane (bias low) and Methyl acetate (bias high). A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260C: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 460-534856 recovered outside control limits for 2-Hexanone.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Client Sample ID: PDI-TB-06272018 — Lab Sample ID: 460-159396-1

No Detections.

Client Sample ID: PDI-FB-06272018 — Lab Sample ID: 460-159396-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	7.6		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	10		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	6.5		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-17-WG-75-06272018 — Lab Sample ID: 460-159396-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4		5.0	5.0	ug/L	1		8260C	Total/NA
Bromoform	0.66	J	1.0	0.54	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.69	J	1.0	0.28	ug/L	1		8260C	Total/NA
Chloroform	0.55	J	1.0	0.33	ug/L	1		8260C	Total/NA
Bromodichloromethane	0.59	J	1.0	0.34	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.25	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	3.8		1.0	0.31	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-TB-06272018
Date Collected: 06/27/18 00:00
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159396-1
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:32	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:32	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:32	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:32	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:32	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:32	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:32	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:32	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 09:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:32	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 09:32	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:32	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:32	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:32	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:32	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:32	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:32	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:32	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:32	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:32	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:32	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:32	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:32	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:32	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:32	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:32	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:32	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:32	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:32	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:32	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:32	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:32	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:32	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:32	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:32	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:32	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:32	1

Client Sample ID: PDI-TB-06272018

Lab Sample ID: 460-159396-1

Date Collected: 06/27/18 00:00

Matrix: Water

Date Received: 06/27/18 19:40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		74 - 132		07/10/18 09:32	1
4-Bromofluorobenzene	90		77 - 124		07/10/18 09:32	1
Toluene-d8 (Surr)	98		80 - 120		07/10/18 09:32	1
Dibromofluoromethane (Surr)	108		72 - 131		07/10/18 09:32	1

Client Sample ID: PDI-FB-06272018

Lab Sample ID: 460-159396-2

Date Collected: 06/27/18 09:20

Matrix: Water

Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:59	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:59	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:59	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:59	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:59	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:59	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:59	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:59	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:59	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:59	1
2-Butanone (MEK)	**7.6**		5.0	1.9	ug/L			07/10/18 09:59	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 09:59	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:59	1
Acetone	**10**		5.0	5.0	ug/L			07/10/18 09:59	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:59	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:59	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:59	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:59	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:59	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:59	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:59	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:59	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:59	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:59	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:59	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:59	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:59	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:59	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:59	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:59	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:59	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:59	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:59	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:59	1
Methylene Chloride	**6.5**		1.0	0.32	ug/L			07/10/18 09:59	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:59	1

Client Sample ID: PDI-FB-06272018

Lab Sample ID: 460-159396-2
Date Collected: 06/27/18 09:20
Matrix: Water
Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:59	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:59	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:59	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:59	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:59	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:59	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:59	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:59	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*07/10/18 09:59*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/10/18 09:59*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/10/18 09:59*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 09:59*	*1*

Client Sample ID: PDI-17-WG-75-06272018

Lab Sample ID: 460-159396-3
Date Collected: 06/27/18 13:20
Matrix: Water
Date Received: 06/27/18 19:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 10:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 10:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 10:26	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 10:26	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 10:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 10:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 10:26	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 10:26	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 10:26	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 10:26	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 10:26	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 10:26	1
2-Hexanone	ND	*	5.0	2.9	ug/L			07/10/18 10:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 10:26	1
Acetone	**6.4**		5.0	5.0	ug/L			07/10/18 10:26	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 10:26	1
Bromoform	**0.66**	**J**	1.0	0.54	ug/L			07/10/18 10:26	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 10:26	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 10:26	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 10:26	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 10:26	1
Dibromochloromethane	**0.69**	**J**	1.0	0.28	ug/L			07/10/18 10:26	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Chloroform	**0.55**	**J**	1.0	0.33	ug/L			07/10/18 10:26	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 10:26	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 10:26	1

Client Sample ID: PDI-17-WG-75-06272018
Date Collected: 06/27/18 13:20
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159396-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Bromodichloromethane	**0.59**	**J**	1.0	0.34	ug/L			07/10/18 10:26	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 10:26	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 10:26	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 10:26	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 10:26	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 10:26	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 10:26	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 10:26	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 10:26	1
Tetrachloroethene	**0.25**	**J**	1.0	0.25	ug/L			07/10/18 10:26	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 10:26	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 10:26	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 10:26	1
Trichloroethene	**3.8**		1.0	0.31	ug/L			07/10/18 10:26	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 10:26	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 10:26	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 10:26	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 10:26	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 10:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*74 - 132*		*07/10/18 10:26*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*07/10/18 10:26*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/10/18 10:26*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/10/18 10:26*	*1*

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159396-1	PDI-TB-06272018	114	90	98	108
460-159396-2	PDI-FB-06272018	115	89	99	109
460-159396-3	PDI-17-WG-75-06272018	115	91	98	109
LCS 460-534856/3	Lab Control Sample	110	92	100	103
LCSD 460-534856/4	Lab Control Sample Dup	111	93	100	105
MB 460-534856/8	Method Blank	112	89	98	108

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534856/8
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/10/18 09:05	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/10/18 09:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/10/18 09:05	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/10/18 09:05	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/10/18 09:05	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/10/18 09:05	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/10/18 09:05	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/10/18 09:05	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/10/18 09:05	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/10/18 09:05	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/10/18 09:05	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/10/18 09:05	1
2-Hexanone	ND		5.0	2.9	ug/L			07/10/18 09:05	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/10/18 09:05	1
Acetone	ND		5.0	5.0	ug/L			07/10/18 09:05	1
Benzene	ND		1.0	0.43	ug/L			07/10/18 09:05	1
Bromoform	ND		1.0	0.54	ug/L			07/10/18 09:05	1
Bromomethane	ND		1.0	1.0	ug/L			07/10/18 09:05	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/10/18 09:05	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/10/18 09:05	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/10/18 09:05	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/10/18 09:05	1
Chloroethane	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Chloroform	ND		1.0	0.33	ug/L			07/10/18 09:05	1
Chloromethane	ND		1.0	0.14	ug/L			07/10/18 09:05	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/10/18 09:05	1
Cyclohexane	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/10/18 09:05	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/10/18 09:05	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/10/18 09:05	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/10/18 09:05	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/10/18 09:05	1
Methyl acetate	ND		5.0	0.31	ug/L			07/10/18 09:05	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/10/18 09:05	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/10/18 09:05	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/10/18 09:05	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/10/18 09:05	1
Toluene	ND		1.0	0.38	ug/L			07/10/18 09:05	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/10/18 09:05	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/10/18 09:05	1
Trichloroethene	ND		1.0	0.31	ug/L			07/10/18 09:05	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/10/18 09:05	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/10/18 09:05	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/10/18 09:05	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/10/18 09:05	1
Styrene	ND		1.0	0.42	ug/L			07/10/18 09:05	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*07/10/18 09:05*	*1*
4-Bromofluorobenzene	*89*		*77 - 124*		*07/10/18 09:05*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*07/10/18 09:05*	*1*
Dibromofluoromethane (Surr)	*108*		*72 - 131*		*07/10/18 09:05*	*1*

Lab Sample ID: LCS 460-534856/3
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.9		ug/L		99	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.4		ug/L		97	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.1		ug/L		105	59 - 150
1,1,2-Trichloroethane	20.0	19.6		ug/L		98	78 - 120
1,1-Dichloroethane	20.0	22.2		ug/L		111	77 - 123
1,1-Dichloroethene	20.0	19.6		ug/L		98	74 - 123
1,2,4-Trichlorobenzene	20.0	20.6		ug/L		103	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	19.8		ug/L		99	55 - 134
1,2-Dichlorobenzene	20.0	19.0		ug/L		95	80 - 120
1,2-Dichloroethane	20.0	21.2		ug/L		106	76 - 121
1,2-Dichloropropane	20.0	20.8		ug/L		104	77 - 123
1,3-Dichlorobenzene	20.0	19.4		ug/L		97	80 - 120
1,4-Dichlorobenzene	20.0	19.2		ug/L		96	80 - 120
2-Butanone (MEK)	100	74.2		ug/L		74	64 - 120
2-Hexanone	100	68.4	*	ug/L		68	71 - 125
4-Methyl-2-pentanone (MIBK)	100	87.8		ug/L		88	78 - 124
Acetone	100	79.3		ug/L		79	39 - 150
Benzene	20.0	20.5		ug/L		102	77 - 121
Bromoform	20.0	20.4		ug/L		102	53 - 120
Bromomethane	20.0	18.1		ug/L		91	10 - 150
Carbon disulfide	20.0	21.6		ug/L		108	69 - 133
Carbon tetrachloride	20.0	21.1		ug/L		106	70 - 132
Chlorobenzene	20.0	19.2		ug/L		96	80 - 120
Dibromochloromethane	20.0	20.3		ug/L		102	73 - 120
Chloroethane	20.0	23.4		ug/L		117	52 - 150
Chloroform	20.0	20.9		ug/L		105	80 - 120
Chloromethane	20.0	19.8		ug/L		99	56 - 131
cis-1,2-Dichloroethene	20.0	18.3		ug/L		92	80 - 120
Cyclohexane	20.0	19.6		ug/L		98	56 - 150
Bromodichloromethane	20.0	20.3		ug/L		102	76 - 120
Dichlorodifluoromethane	20.0	20.3		ug/L		101	50 - 131
Ethylbenzene	20.0	17.9		ug/L		89	80 - 120
1,2-Dibromoethane	20.0	19.1		ug/L		95	80 - 120
Isopropylbenzene	20.0	18.3		ug/L		92	80 - 123
Methyl acetate	40.0	50.0		ug/L		125	66 - 144
Methyl tert-butyl ether	20.0	21.5		ug/L		108	79 - 122
Methylcyclohexane	20.0	20.0		ug/L		100	61 - 145
Methylene Chloride	20.0	20.7		ug/L		103	77 - 123
Tetrachloroethene	20.0	19.3		ug/L		97	78 - 122
Toluene	20.0	18.8		ug/L		94	80 - 120
trans-1,2-Dichloroethene	20.0	19.2		ug/L		96	79 - 120
trans-1,3-Dichloropropene	20.0	20.2		ug/L		101	76 - 120
Trichloroethene	20.0	18.6		ug/L		93	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534856/3
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	22.1		ug/L		111	71 - 143
Vinyl chloride	20.0	21.3		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	20.4		ug/L		102	77 - 120
Styrene	20.0	18.4		ug/L		92	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*110*		*74 - 132*
4-Bromofluorobenzene	*92*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*72 - 131*

Lab Sample ID: LCSD 460-534856/4
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.8		ug/L		104	75 - 125	5	30
1,1,2,2-Tetrachloroethane	20.0	19.9		ug/L		99	74 - 120	2	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/L		108	59 - 150	2	30
1,1,2-Trichloroethane	20.0	19.7		ug/L		98	78 - 120	0	30
1,1-Dichloroethane	20.0	23.0		ug/L		115	77 - 123	4	30
1,1-Dichloroethene	20.0	19.8		ug/L		99	74 - 123	1	30
1,2,4-Trichlorobenzene	20.0	20.7		ug/L		103	80 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/L		100	55 - 134	1	30
1,2-Dichlorobenzene	20.0	19.1		ug/L		96	80 - 120	1	30
1,2-Dichloroethane	20.0	21.8		ug/L		109	76 - 121	3	30
1,2-Dichloropropane	20.0	21.3		ug/L		106	77 - 123	2	30
1,3-Dichlorobenzene	20.0	20.4		ug/L		102	80 - 120	6	30
1,4-Dichlorobenzene	20.0	19.8		ug/L		99	80 - 120	3	30
2-Butanone (MEK)	100	77.6		ug/L		78	64 - 120	4	30
2-Hexanone	100	69.3	*	ug/L		69	71 - 125	1	30
4-Methyl-2-pentanone (MIBK)	100	90.6		ug/L		91	78 - 124	3	30
Acetone	100	80.8		ug/L		81	39 - 150	2	30
Benzene	20.0	20.7		ug/L		104	77 - 121	1	30
Bromoform	20.0	20.7		ug/L		104	53 - 120	2	30
Bromomethane	20.0	20.9		ug/L		104	10 - 150	14	30
Carbon disulfide	20.0	22.0		ug/L		110	69 - 133	2	30
Carbon tetrachloride	20.0	21.3		ug/L		106	70 - 132	1	30
Chlorobenzene	20.0	19.3		ug/L		97	80 - 120	1	30
Dibromochloromethane	20.0	20.4		ug/L		102	73 - 120	1	30
Chloroethane	20.0	23.2		ug/L		116	52 - 150	1	30
Chloroform	20.0	21.4		ug/L		107	80 - 120	2	30
Chloromethane	20.0	19.4		ug/L		97	56 - 131	2	30
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	80 - 120	1	30
Cyclohexane	20.0	20.3		ug/L		101	56 - 150	3	30
Bromodichloromethane	20.0	21.0		ug/L		105	76 - 120	3	30
Dichlorodifluoromethane	20.0	20.2		ug/L		101	50 - 131	0	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-534856/4
Matrix: Water
Analysis Batch: 534856

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.0		ug/L		90	80 - 120	1	30
1,2-Dibromoethane			20.0	19.2		ug/L		96	80 - 120	1	30
Isopropylbenzene			20.0	19.0		ug/L		95	80 - 123	3	30
Methyl acetate			40.0	51.2		ug/L		128	66 - 144	2	30
Methyl tert-butyl ether			20.0	22.5		ug/L		113	79 - 122	5	30
Methylcyclohexane			20.0	20.3		ug/L		102	61 - 145	2	30
Methylene Chloride			20.0	21.2		ug/L		106	77 - 123	3	30
Tetrachloroethene			20.0	19.3		ug/L		96	78 - 122	0	30
Toluene			20.0	19.3		ug/L		96	80 - 120	2	30
trans-1,2-Dichloroethene			20.0	20.3		ug/L		101	79 - 120	5	30
trans-1,3-Dichloropropene			20.0	20.9		ug/L		105	76 - 120	4	30
Trichloroethene			20.0	19.4		ug/L		97	77 - 120	4	30
Trichlorofluoromethane			20.0	21.3		ug/L		106	71 - 143	4	30
Vinyl chloride			20.0	20.4		ug/L		102	62 - 138	4	30
cis-1,3-Dichloropropene			20.0	20.7		ug/L		104	77 - 120	2	30
Styrene			20.0	18.7		ug/L		94	80 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*111*		*74 - 132*
4-Bromofluorobenzene	*93*		*77 - 124*
Toluene-d8 (Surr)	*100*		*80 - 120*
Dibromofluoromethane (Surr)	*105*		*72 - 131*

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

GC/MS VOA

Analysis Batch: 534856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159396-1	PDI-TB-06272018	Total/NA	Water	8260C	
460-159396-2	PDI-FB-06272018	Total/NA	Water	8260C	
460-159396-3	PDI-17-WG-75-06272018	Total/NA	Water	8260C	
MB 460-534856/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534856/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-534856/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Client Sample ID: PDI-TB-06272018
Lab Sample ID: 460-159396-1
Date Collected: 06/27/18 00:00
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 09:32	AAT	TAL EDI

Client Sample ID: PDI-FB-06272018
Lab Sample ID: 460-159396-2
Date Collected: 06/27/18 09:20
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 09:59	AAT	TAL EDI

Client Sample ID: PDI-17-WG-75-06272018
Lab Sample ID: 460-159396-3
Date Collected: 06/27/18 13:20
Matrix: Water
Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534856	07/10/18 10:26	AAT	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159396-1	PDI-TB-06272018	Water	06/27/18 00:00	06/27/18 19:40
460-159396-2	PDI-FB-06272018	Water	06/27/18 09:20	06/27/18 19:40
460-159396-3	PDI-17-WG-75-06272018	Water	06/27/18 13:20	06/27/18 19:40

Frank Robinson

460-159396 Chain of Custody

NYSC 460501

7/12/2018

Page 20 of 22

Amy Picunas		becky.mason@	Page 1 of 3
Company: CDM Smith, Inc.			Job #: 159396
Address: 11 British American Blvd Suite 200	Due Date Requested:		
City: Latham	TAT Requested (days):		
State, Zip: NY, 12110			
Phone:	PO #: 77861		
Email: picunasae@cdmsmith.com	WO #:		
Project Name: Former Aluminum Louvre	Project #: 48016917		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:							A	N	N	A	N		
PDI-TB-06272018	6/27/18	—	—	Water			✓					3	Trip Blank 1
PDI-FB-06272018	6/27/18	0920	—	Water			✓					3	Field Blank 2
PDI-17-SWG-75-06272018	6/27/18	1320	G	Water			✓					3	3
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

SHORT HOLD

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/27/18 1327	Company: CDM	Received by:	Date/Time: 6/27/18 1325	Company: FedEx
Relinquished by:	Date/Time: 6/27/18 1615	Company: CDM	Received by:	Date/Time: 6/27/18 1914	Company: FedEx
Relinquished by:	Date/Time: 6/27/18 1940	Company: FedEx	Received by:	Date/Time: 6/27/18 1940	Company: TAEDL
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Ver: 08/04/2016

2.1 / 2.1 3rd cl NOC

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 169396

Number of Coolers: 1 IR Gun #: 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	0.1 °C	2.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/27/18

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159396-1

Login Number: 159396
List Number: 1
Creator: Merriweather, Morgan A

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 460-159405-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas

Approved for release.
Becky C Mason
Project Manager II
7/12/2018 1:54 PM

Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/12/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Report Narrative 4

Sample Summary 5

Detection Summary 6

Method Summary 7

Client Sample Results 8

Surrogate Summary 10

QC Sample Results 11

Definitions 16

QC Association 17

Chronicle 18

Certification Summary 19

Organic Sample Data 20

GC/MS VOA 20

8260C 20

8260C QC Summary 21

8260C Sample Data 31

Standards Data 47

8260C ICAL Data 47

8260C CCAL Data 132

Raw QC Data 147

8260C Tune Data 147

8260C Blank Data 154

8260C LCS/LCSD Data 162

8260C Run Logs 176

Table of Contents

8260C Prep Data 178

Inorganic Sample Data 179

General Chemistry Data 179

Gen Chem Cover Page 180

Gen Chem Sample Data 182

Gen Chem QC Data 184

Gen Chem ICV/CCV 184

Gen Chem Blanks 185

Gen Chem Duplicates 186

Gen Chem LCS/LCSD 187

Gen Chem MDL 188

Gen Chem Analysis Run Log 192

Gen Chem Raw Data 194

Gen Chem Prep Data 197

Subcontracted Data 201

Shipping and Receiving Documents 202

Client Chain of Custody 203

Sample Receipt Checklist 206

Job Narrative
460-159405-1

Receipt
The samples were received on 6/27/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: PDI-17-SO-60-06272018 (460-159405-1) and PDI-17-SO-62-06272018 (460-159405-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159405-1	PDI-17-SO-60-06272018	Solid	06/27/18 12:15	06/27/18 19:40
460-159405-2	PDI-17-SO-62-06272018	Solid	06/27/18 12:15	06/27/18 19:40

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Client Sample ID: PDI-17-SO-60-06272018 — Lab Sample ID: 460-159405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.27	J	0.89	0.16	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	5.7		4.4	0.98	ug/Kg	1	☼	8260C	Total/NA
Acetone	25	B	4.4	3.4	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	5.8		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.0	B	0.89	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	2.5		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	110		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.26	J	1.8	0.22	ug/Kg	1	☼	8260C	Total/NA
Ferrous Iron	1.1	J HF	1.9	0.28	mg/Kg	1		SM 3500 FE D	ASTM Leach

Client Sample ID: PDI-17-SO-62-06272018 — Lab Sample ID: 460-159405-2

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
5035	Closed System Purge and Trap	SW846	TAL EDI
D3987-85	ASTM Leaching Procedure	ASTM	TAL BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Client Sample ID: PDI-17-SO-60-06272018

Date Collected: 06/27/18 12:15
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159405-1

Matrix: Solid
Percent Solids: 79.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.89	0.21	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2,2-Tetrachloroethane	ND		0.89	0.19	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.89	0.27	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2-Trichloroethane	**0.27**	**J**	0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1-Dichloroethane	ND		0.89	0.18	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1-Dichloroethene	ND		0.89	0.20	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2,4-Trichlorobenzene	ND		0.89	0.082	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dibromo-3-Chloropropane	ND		0.89	0.41	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichloroethane	ND		0.89	0.26	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichloropropane	ND		0.89	0.37	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,3-Dichlorobenzene	ND		0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,4-Dichlorobenzene	ND		0.89	0.089	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
2-Butanone (MEK)	**5.7**		4.4	0.98	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
2-Hexanone	ND		4.4	0.69	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	0.59	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Acetone	**25**	**B**	4.4	3.4	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Benzene	ND		0.89	0.23	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromoform	ND		0.89	0.38	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromomethane	ND		0.89	0.42	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Carbon disulfide	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Carbon tetrachloride	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chlorobenzene	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Dibromochloromethane	ND		0.89	0.17	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloroethane	ND		0.89	0.46	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloroform	ND		0.89	0.28	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloromethane	ND		0.89	0.39	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
cis-1,2-Dichloroethene	**5.8**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Cyclohexane	ND		0.89	0.20	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromodichloromethane	ND		0.89	0.23	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Dichlorodifluoromethane	ND		0.89	0.30	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Ethylbenzene	ND		0.89	0.18	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dibromoethane	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Isopropylbenzene	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methyl acetate	ND		4.4	3.8	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methyl tert-butyl ether	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methylcyclohexane	ND		0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methylene Chloride	**2.0**	**B**	0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Tetrachloroethene	**2.5**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Toluene	ND		0.89	0.55	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
trans-1,2-Dichloroethene	ND		0.89	0.22	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
trans-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Trichloroethene	**110**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Trichlorofluoromethane	ND		0.89	0.36	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Vinyl chloride	ND		0.89	0.48	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Xylenes, Total	**0.26**	**J**	1.8	0.22	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
cis-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Styrene	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1

Client Sample ID: PDI-17-SO-60-06272018 — Lab Sample ID: 460-159405-1

Date Collected: 06/27/18 12:15 — **Matrix: Solid**
Date Received: 06/27/18 19:40 — **Percent Solids: 79.4**

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*78 - 135*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
Toluene-d8 (Surr)	*105*		*73 - 121*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
Dibromofluoromethane (Surr)	*107*		*61 - 149*	*06/28/18 20:41*	*07/11/18 06:36*	*1*

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**1.1**	**J HF**	1.9	0.28	mg/Kg			07/09/18 14:45	1

Client Sample ID: PDI-17-SO-62-06272018 — Lab Sample ID: 460-159405-2

Date Collected: 06/27/18 12:15 — **Matrix: Solid**
Date Received: 06/27/18 19:40

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	1.9	0.29	mg/Kg			07/09/18 14:45	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159405-1	PDI-17-SO-60-06272018	104	100	105	107
LCS 460-535091/3	Lab Control Sample	99	99	105	103
LCSD 460-535091/4	Lab Control Sample Dup	95	99	104	101
MB 460-535091/7	Method Blank	94	99	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-535091/7
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/10/18 22:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/10/18 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/10/18 22:52	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/10/18 22:52	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/10/18 22:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/10/18 22:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/10/18 22:52	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/10/18 22:52	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/10/18 22:52	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/10/18 22:52	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/10/18 22:52	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/10/18 22:52	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/10/18 22:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/10/18 22:52	1
Acetone	3.84	J	5.0	3.8	ug/Kg			07/10/18 22:52	1
Benzene	ND		1.0	0.26	ug/Kg			07/10/18 22:52	1
Bromoform	ND		1.0	0.43	ug/Kg			07/10/18 22:52	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/10/18 22:52	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/10/18 22:52	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/10/18 22:52	1
Chloroform	ND		1.0	0.32	ug/Kg			07/10/18 22:52	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/10/18 22:52	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/10/18 22:52	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/10/18 22:52	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/10/18 22:52	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/10/18 22:52	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/10/18 22:52	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/10/18 22:52	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/10/18 22:52	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/10/18 22:52	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/10/18 22:52	1
Methylene Chloride	0.227	J	1.0	0.16	ug/Kg			07/10/18 22:52	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
Toluene	ND		1.0	0.63	ug/Kg			07/10/18 22:52	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/10/18 22:52	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
Trichlorofluoromethane	0.471	J	1.0	0.41	ug/Kg			07/10/18 22:52	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/10/18 22:52	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/10/18 22:52	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Styrene	ND		1.0	0.12	ug/Kg			07/10/18 22:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*		*07/10/18 22:52*	*1*
4-Bromofluorobenzene	*99*		*67 - 126*		*07/10/18 22:52*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*		*07/10/18 22:52*	*1*
Dibromofluoromethane (Surr)	*105*		*61 - 149*		*07/10/18 22:52*	*1*

Lab Sample ID: LCS 460-535091/3
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.2		ug/Kg		96	80 - 125
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/Kg		104	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.5		ug/Kg		107	78 - 132
1,1,2-Trichloroethane	20.0	20.6		ug/Kg		103	76 - 124
1,1-Dichloroethane	20.0	21.6		ug/Kg		108	80 - 124
1,1-Dichloroethene	20.0	20.5		ug/Kg		103	79 - 132
1,2,4-Trichlorobenzene	20.0	17.3		ug/Kg		87	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/Kg		89	65 - 129
1,2-Dichlorobenzene	20.0	18.1		ug/Kg		90	80 - 121
1,2-Dichloroethane	20.0	17.6		ug/Kg		88	68 - 120
1,2-Dichloropropane	20.0	21.2		ug/Kg		106	77 - 124
1,3-Dichlorobenzene	20.0	18.2		ug/Kg		91	79 - 124
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		90	79 - 121
2-Butanone (MEK)	100	77.8		ug/Kg		78	61 - 140
2-Hexanone	100	90.3		ug/Kg		90	78 - 120
4-Methyl-2-pentanone (MIBK)	100	91.6		ug/Kg		92	80 - 120
Acetone	100	86.3		ug/Kg		86	75 - 120
Benzene	20.0	20.9		ug/Kg		105	75 - 127
Bromoform	20.0	16.6		ug/Kg		83	19 - 150
Bromomethane	20.0	19.2		ug/Kg		96	59 - 136
Carbon disulfide	20.0	21.0		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	18.5		ug/Kg		93	77 - 138
Chlorobenzene	20.0	18.9		ug/Kg		94	80 - 120
Dibromochloromethane	20.0	17.7		ug/Kg		88	67 - 143
Chloroethane	20.0	20.9		ug/Kg		105	50 - 139
Chloroform	20.0	19.8		ug/Kg		99	80 - 122
Chloromethane	20.0	20.2		ug/Kg		101	66 - 128
cis-1,2-Dichloroethene	20.0	19.1		ug/Kg		95	80 - 123
Cyclohexane	20.0	21.1		ug/Kg		106	67 - 135
Bromodichloromethane	20.0	18.4		ug/Kg		92	76 - 129
Dichlorodifluoromethane	20.0	18.3		ug/Kg		92	72 - 127
Ethylbenzene	20.0	19.4		ug/Kg		97	79 - 124
1,2-Dibromoethane	20.0	18.9		ug/Kg		94	80 - 122
Isopropylbenzene	20.0	19.0		ug/Kg		95	80 - 125
Methyl acetate	40.0	41.5		ug/Kg		104	73 - 123
Methyl tert-butyl ether	20.0	20.0		ug/Kg		100	80 - 120
Methylcyclohexane	20.0	20.4		ug/Kg		102	71 - 137
Methylene Chloride	20.0	19.6		ug/Kg		98	79 - 128
Tetrachloroethene	20.0	18.3		ug/Kg		91	73 - 130
Toluene	20.0	19.4		ug/Kg		97	75 - 122
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	80 - 129
trans-1,3-Dichloropropene	20.0	18.7		ug/Kg		94	72 - 121
Trichloroethene	20.0	19.2		ug/Kg		96	79 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-535091/3
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	19.7		ug/Kg		99	68 - 136
Vinyl chloride	20.0	20.8		ug/Kg		104	70 - 134
cis-1,3-Dichloropropene	20.0	19.7		ug/Kg		98	75 - 124
Styrene	20.0	19.3		ug/Kg		96	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 135*
4-Bromofluorobenzene	*99*		*67 - 126*
Toluene-d8 (Surr)	*105*		*73 - 121*
Dibromofluoromethane (Surr)	*103*		*61 - 149*

Lab Sample ID: LCSD 460-535091/4
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	80 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/Kg		96	72 - 131	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/Kg		108	78 - 132	1	30
1,1,2-Trichloroethane	20.0	19.2		ug/Kg		96	76 - 124	7	30
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	80 - 124	7	30
1,1-Dichloroethene	20.0	19.2		ug/Kg		96	79 - 132	7	30
1,2,4-Trichlorobenzene	20.0	17.4		ug/Kg		87	74 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/Kg		83	65 - 129	7	30
1,2-Dichlorobenzene	20.0	17.6		ug/Kg		88	80 - 121	3	30
1,2-Dichloroethane	20.0	16.5		ug/Kg		83	68 - 120	6	30
1,2-Dichloropropane	20.0	19.5		ug/Kg		98	77 - 124	8	30
1,3-Dichlorobenzene	20.0	17.8		ug/Kg		89	79 - 124	2	30
1,4-Dichlorobenzene	20.0	17.7		ug/Kg		88	79 - 121	2	30
2-Butanone (MEK)	100	80.4		ug/Kg		80	61 - 140	3	30
2-Hexanone	100	86.2		ug/Kg		86	78 - 120	5	30
4-Methyl-2-pentanone (MIBK)	100	87.7		ug/Kg		88	80 - 120	4	30
Acetone	100	77.9		ug/Kg		78	75 - 120	10	30
Benzene	20.0	19.3		ug/Kg		97	75 - 127	8	30
Bromoform	20.0	15.3		ug/Kg		77	19 - 150	8	30
Bromomethane	20.0	20.3		ug/Kg		101	59 - 136	6	30
Carbon disulfide	20.0	19.9		ug/Kg		100	74 - 130	5	30
Carbon tetrachloride	20.0	18.1		ug/Kg		91	77 - 138	2	30
Chlorobenzene	20.0	18.0		ug/Kg		90	80 - 120	4	30
Dibromochloromethane	20.0	16.2		ug/Kg		81	67 - 143	9	30
Chloroethane	20.0	22.5		ug/Kg		112	50 - 139	7	30
Chloroform	20.0	18.0		ug/Kg		90	80 - 122	9	30
Chloromethane	20.0	21.8		ug/Kg		109	66 - 128	7	30
cis-1,2-Dichloroethene	20.0	18.5		ug/Kg		92	80 - 123	3	30
Cyclohexane	20.0	21.3		ug/Kg		106	67 - 135	1	30
Bromodichloromethane	20.0	17.8		ug/Kg		89	76 - 129	4	30
Dichlorodifluoromethane	20.0	19.6		ug/Kg		98	72 - 127	7	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-535091/4
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.4		ug/Kg		92	79 - 124	5	30
1,2-Dibromoethane			20.0	17.7		ug/Kg		88	80 - 122	6	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	80 - 125	3	30
Methyl acetate			40.0	38.5		ug/Kg		96	73 - 123	8	30
Methyl tert-butyl ether			20.0	18.3		ug/Kg		92	80 - 120	9	30
Methylcyclohexane			20.0	20.3		ug/Kg		101	71 - 137	1	30
Methylene Chloride			20.0	18.7		ug/Kg		94	79 - 128	5	30
Tetrachloroethene			20.0	17.7		ug/Kg		88	73 - 130	3	30
Toluene			20.0	18.6		ug/Kg		93	75 - 122	4	30
trans-1,2-Dichloroethene			20.0	19.3		ug/Kg		97	80 - 129	6	30
trans-1,3-Dichloropropene			20.0	17.7		ug/Kg		88	72 - 121	6	30
Trichloroethene			20.0	18.5		ug/Kg		93	79 - 122	4	30
Trichlorofluoromethane			20.0	21.1		ug/Kg		106	68 - 136	7	30
Vinyl chloride			20.0	22.1		ug/Kg		111	70 - 134	6	30
cis-1,3-Dichloropropene			20.0	18.0		ug/Kg		90	75 - 124	9	30
Styrene			20.0	18.4		ug/Kg		92	78 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 135*
4-Bromofluorobenzene	*99*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*101*		*61 - 149*

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-423597/3
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.015	mg/Kg			07/09/18 14:45	1

Lab Sample ID: LCS 480-423597/4
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	1.83		mg/Kg		92	90 - 110		

Lab Sample ID: MB 480-423404/1-A
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		2.0	0.30	mg/Kg			07/09/18 14:45	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 460-159405-2 DU
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: PDI-17-SO-62-06272018
Prep Type: ASTM Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		0.399	J	mg/Kg				NC	20

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

GC/MS VOA

Prep Batch: 531949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	5035	

Analysis Batch: 535091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	8260C	531949
MB 460-535091/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-535091/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-535091/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Leach Batch: 423404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	ASTM Leach	Solid	D3987-85	
460-159405-2	PDI-17-SO-62-06272018	ASTM Leach	Solid	D3987-85	
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	D3987-85	
460-159405-2 DU	PDI-17-SO-62-06272018	ASTM Leach	Solid	D3987-85	

Analysis Batch: 423597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	ASTM Leach	Solid	SM 3500 FE D	423404
460-159405-2	PDI-17-SO-62-06272018	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423597/3	Method Blank	Total/NA	Solid	SM 3500 FE D	
LCS 480-423597/4	Lab Control Sample	Total/NA	Solid	SM 3500 FE D	
460-159405-2 DU	PDI-17-SO-62-06272018	ASTM Leach	Solid	SM 3500 FE D	423404

Analysis Batch: 533937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-17-SO-60-06272018

Lab Sample ID: 460-159405-1

Date Collected: 06/27/18 12:15

Matrix: Solid

Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	533937	07/06/18 09:36	BJP	TAL EDI
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Client Sample ID: PDI-17-SO-60-06272018

Lab Sample ID: 460-159405-1

Date Collected: 06/27/18 12:15

Matrix: Solid

Date Received: 06/27/18 19:40

Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			531949	06/28/18 20:41	AVM	TAL EDI
Total/NA	Analysis	8260C		1	535091	07/11/18 06:36	XXC	TAL EDI

Client Sample ID: PDI-17-SO-62-06272018

Lab Sample ID: 460-159405-2

Date Collected: 06/27/18 12:15

Matrix: Solid

Date Received: 06/27/18 19:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159405-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Solid	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-17-SO-60-06272018	460-159405-1	107	104	105	100
	MB 460-535091/7	105	94	104	99
	LCS 460-535091/3	103	99	105	99
	LCSD 460-535091/4	101	95	104	99

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86387.D

Lab ID: LCS 460-535091/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	19.2	96	80-125	
1,1,2,2-Tetrachloroethane	20.0	20.9	104	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.5	107	78-132	
1,1,2-Trichloroethane	20.0	20.6	103	76-124	
1,1-Dichloroethane	20.0	21.6	108	80-124	
1,1-Dichloroethene	20.0	20.5	103	79-132	
1,2,4-Trichlorobenzene	20.0	17.3	87	74-124	
1,2-Dibromo-3-Chloropropane	20.0	17.8	89	65-129	
1,2-Dichlorobenzene	20.0	18.1	90	80-121	
1,2-Dichloroethane	20.0	17.6	88	68-120	
1,2-Dichloropropane	20.0	21.2	106	77-124	
1,3-Dichlorobenzene	20.0	18.2	91	79-124	
1,4-Dichlorobenzene	20.0	17.9	90	79-121	
2-Butanone (MEK)	100	77.8	78	61-140	
2-Hexanone	100	90.3	90	78-120	
4-Methyl-2-pentanone (MIBK)	100	91.6	92	80-120	
Acetone	100	86.3	86	75-120	
Benzene	20.0	20.9	105	75-127	
Bromoform	20.0	16.6	83	19-150	
Bromomethane	20.0	19.2	96	59-136	
Carbon disulfide	20.0	21.0	105	74-130	
Carbon tetrachloride	20.0	18.5	93	77-138	
Chlorobenzene	20.0	18.9	94	80-120	
Dibromochloromethane	20.0	17.7	88	67-143	
Chloroethane	20.0	20.9	105	50-139	
Chloroform	20.0	19.8	99	80-122	
Chloromethane	20.0	20.2	101	66-128	
cis-1,2-Dichloroethene	20.0	19.1	95	80-123	
Cyclohexane	20.0	21.1	106	67-135	
Bromodichloromethane	20.0	18.4	92	76-129	
Dichlorodifluoromethane	20.0	18.3	92	72-127	
Ethylbenzene	20.0	19.4	97	79-124	
1,2-Dibromoethane	20.0	18.9	94	80-122	
Isopropylbenzene	20.0	19.0	95	80-125	
Methyl acetate	40.0	41.5	104	73-123	
Methyl tert-butyl ether	20.0	20.0	100	80-120	
Methylcyclohexane	20.0	20.4	102	71-137	
Methylene Chloride	20.0	19.6	98	79-128	
Tetrachloroethene	20.0	18.3	91	73-130	
Toluene	20.0	19.4	97	75-122	
trans-1,2-Dichloroethene	20.0	20.6	103	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86387.D

Lab ID: LCS 460-535091/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	18.7	94	72-121	
Trichloroethene	20.0	19.2	96	79-122	
Trichlorofluoromethane	20.0	19.7	99	68-136	
Vinyl chloride	20.0	20.8	104	70-134	
cis-1,3-Dichloropropene	20.0	19.7	98	75-124	
Styrene	20.0	19.3	96	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86388.D

Lab ID: LCSD 460-535091/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.6	93	3	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	19.2	96	8	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6	108	1	30	78-132	
1,1,2-Trichloroethane	20.0	19.2	96	7	30	76-124	
1,1-Dichloroethane	20.0	20.2	101	7	30	80-124	
1,1-Dichloroethene	20.0	19.2	96	7	30	79-132	
1,2,4-Trichlorobenzene	20.0	17.4	87	0	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	16.5	83	7	30	65-129	
1,2-Dichlorobenzene	20.0	17.6	88	3	30	80-121	
1,2-Dichloroethane	20.0	16.5	83	6	30	68-120	
1,2-Dichloropropane	20.0	19.5	98	8	30	77-124	
1,3-Dichlorobenzene	20.0	17.8	89	2	30	79-124	
1,4-Dichlorobenzene	20.0	17.7	88	2	30	79-121	
2-Butanone (MEK)	100	80.4	80	3	30	61-140	
2-Hexanone	100	86.2	86	5	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	87.7	88	4	30	80-120	
Acetone	100	77.9	78	10	30	75-120	
Benzene	20.0	19.3	97	8	30	75-127	
Bromoform	20.0	15.3	77	8	30	19-150	
Bromomethane	20.0	20.3	101	6	30	59-136	
Carbon disulfide	20.0	19.9	100	5	30	74-130	
Carbon tetrachloride	20.0	18.1	91	2	30	77-138	
Chlorobenzene	20.0	18.0	90	4	30	80-120	
Dibromochloromethane	20.0	16.2	81	9	30	67-143	
Chloroethane	20.0	22.5	112	7	30	50-139	
Chloroform	20.0	18.0	90	9	30	80-122	
Chloromethane	20.0	21.8	109	7	30	66-128	
cis-1,2-Dichloroethene	20.0	18.5	92	3	30	80-123	
Cyclohexane	20.0	21.3	106	1	30	67-135	
Bromodichloromethane	20.0	17.8	89	4	30	76-129	
Dichlorodifluoromethane	20.0	19.6	98	7	30	72-127	
Ethylbenzene	20.0	18.4	92	5	30	79-124	
1,2-Dibromoethane	20.0	17.7	88	6	30	80-122	
Isopropylbenzene	20.0	18.5	92	3	30	80-125	
Methyl acetate	40.0	38.5	96	8	30	73-123	
Methyl tert-butyl ether	20.0	18.3	92	9	30	80-120	
Methylcyclohexane	20.0	20.3	101	1	30	71-137	
Methylene Chloride	20.0	18.7	94	5	30	79-128	
Tetrachloroethene	20.0	17.7	88	3	30	73-130	
Toluene	20.0	18.6	93	4	30	75-122	
trans-1,2-Dichloroethene	20.0	19.3	97	6	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86388.D

Lab ID: LCSD 460-535091/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	17.7	88	6	30	72-121	
Trichloroethene	20.0	18.5	93	4	30	79-122	
Trichlorofluoromethane	20.0	21.1	106	7	30	68-136	
Vinyl chloride	20.0	22.1	111	6	30	70-134	
cis-1,3-Dichloropropene	20.0	18.0	90	9	30	75-124	
Styrene	20.0	18.4	92	5	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab File ID: K86391.D Lab Sample ID: MB 460-535091/7

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS9 Date Analyzed: 07/10/2018 22:52

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-535091/3	K86387.D	07/10/2018 20:56
	LCSD 460-535091/4	K86388.D	07/10/2018 21:21
PDI-17-SO-60-06272018	460-159405-1	K86410.D	07/11/2018 06:36

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab File ID: K86116.D BFB Injection Date: 07/06/2018

Instrument ID: CVOAMS9 BFB Injection Time: 00:52

Analysis Batch No.: 533800

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	103.3	
175	5.0 - 9.0 % of mass 174	8.0	(7.8) 1
176	95.0 - 101.0 % of mass 174	102.0	(98.7) 1
177	5.0 - 9.0 % of mass 176	7.6	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-533800/3	K86118.D	07/06/2018	01:46
	STD5 460-533800/4	K86119.D	07/06/2018	02:10
	STD20 460-533800/5	K86120.D	07/06/2018	02:35
	STD50 460-533800/6	K86121.D	07/06/2018	02:59
	STD200 460-533800/7	K86122.D	07/06/2018	03:23
	STD500 460-533800/8	K86123.D	07/06/2018	03:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab File ID: K86385.D BFB Injection Date: 07/10/2018

Instrument ID: CVOAMS9 BFB Injection Time: 20:07

Analysis Batch No.: 535091

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.1	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.5	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	105.1	
175	5.0 - 9.0 % of mass 174	7.3	(6.9) 1
176	95.0 - 101.0 % of mass 174	100.0	(95.2) 1
177	5.0 - 9.0 % of mass 176	6.3	(6.3) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-535091/2	K86386.D	07/10/2018	20:32
	LCS 460-535091/3	K86387.D	07/10/2018	20:56
	LCSD 460-535091/4	K86388.D	07/10/2018	21:21
	MB 460-535091/7	K86391.D	07/10/2018	22:52
PDI-17-SO-60-06272018	460-159405-1	K86410.D	07/11/2018	06:36

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Sample No.: CCVIS 460-535091/2 Date Analyzed: 07/10/2018 20:32

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86386.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		461465	3.36	295409	4.46	617555	5.57
UPPER LIMIT		922930	3.86	590818	4.96	1235110	6.07
LOWER LIMIT		230733	2.86	147705	3.96	308778	5.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535091/3		429870	3.38	288054	4.45	616988	5.57
LCSD 460-535091/4		402095	3.36	272803	4.44	617581	5.57
MB 460-535091/7		374683	3.36	248660	4.44	586990	5.57
460-159405-1	PDI-17-SO-60-06272018	526978	3.37	345264	4.45	602231	5.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Sample No.: CCVIS 460-535091/2 Date Analyzed: 07/10/2018 20:32

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86386.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		39957	6.27	530686	9.06	334162	11.51
UPPER LIMIT		79914	6.77	1061372	9.56	668324	12.01
LOWER LIMIT		19979	5.77	265343	8.56	167081	11.01
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535091/3		38495	6.28	523559	9.06	330278	11.50
LCSD 460-535091/4		36679	6.27	534473	9.06	335871	11.50
MB 460-535091/7		32308	6.27	496678	9.05	308833	11.50
460-159405-1	PDI-17-SO-60-06272018	41648	6.27	507424	9.06	322673	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: PDI-17-SO-60-06272018 | Lab Sample ID: 460-159405-1

Matrix: Solid | Lab File ID: K86410.D

Analysis Method: 8260C | Date Collected: 06/27/2018 12:15

Sample wt/vol: 7.107(g) | Date Analyzed: 07/11/2018 06:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 20.6 | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.89	0.21
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.89	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.89	0.27
79-00-5	1,1,2-Trichloroethane	0.27	J	0.89	0.16
75-34-3	1,1-Dichloroethane	ND		0.89	0.18
75-35-4	1,1-Dichloroethene	ND		0.89	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		0.89	0.082
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.89	0.41
95-50-1	1,2-Dichlorobenzene	ND		0.89	0.13
107-06-2	1,2-Dichloroethane	ND		0.89	0.26
78-87-5	1,2-Dichloropropane	ND		0.89	0.37
541-73-1	1,3-Dichlorobenzene	ND		0.89	0.14
106-46-7	1,4-Dichlorobenzene	ND		0.89	0.089
78-93-3	2-Butanone (MEK)	5.7		4.4	0.98
591-78-6	2-Hexanone	ND		4.4	0.69
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.4	0.59
67-64-1	Acetone	25	B	4.4	3.4
71-43-2	Benzene	ND		0.89	0.23
75-25-2	Bromoform	ND		0.89	0.38
74-83-9	Bromomethane	ND		0.89	0.42
75-15-0	Carbon disulfide	ND		0.89	0.24
56-23-5	Carbon tetrachloride	ND		0.89	0.16
108-90-7	Chlorobenzene	ND		0.89	0.16
124-48-1	Dibromochloromethane	ND		0.89	0.17
75-00-3	Chloroethane	ND		0.89	0.46
67-66-3	Chloroform	ND		0.89	0.28
74-87-3	Chloromethane	ND		0.89	0.39
156-59-2	cis-1,2-Dichloroethene	5.8		0.89	0.13
110-82-7	Cyclohexane	ND		0.89	0.20
75-27-4	Bromodichloromethane	ND		0.89	0.23
75-71-8	Dichlorodifluoromethane	ND		0.89	0.30
100-41-4	Ethylbenzene	ND		0.89	0.18
106-93-4	1,2-Dibromoethane	ND		0.89	0.16
98-82-8	Isopropylbenzene	ND		0.89	0.11
79-20-9	Methyl acetate	ND		4.4	3.8

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: PDI-17-SO-60-06272018 | Lab Sample ID: 460-159405-1

Matrix: Solid | Lab File ID: K86410.D

Analysis Method: 8260C | Date Collected: 06/27/2018 12:15

Sample wt/vol: 7.107(g) | Date Analyzed: 07/11/2018 06:36

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 20.6 | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.89	0.11
108-87-2	Methylcyclohexane	ND		0.89	0.14
75-09-2	Methylene Chloride	2.0	B	0.89	0.14
127-18-4	Tetrachloroethene	2.5		0.89	0.13
108-88-3	Toluene	ND		0.89	0.55
156-60-5	trans-1,2-Dichloroethene	ND		0.89	0.22
10061-02-6	trans-1,3-Dichloropropene	ND		0.89	0.24
79-01-6	Trichloroethene	110		0.89	0.13
75-69-4	Trichlorofluoromethane	ND		0.89	0.36
75-01-4	Vinyl chloride	ND		0.89	0.48
1330-20-7	Xylenes, Total	0.26	J	1.8	0.22
10061-01-5	cis-1,3-Dichloropropene	ND		0.89	0.24
100-42-5	Styrene	ND		0.89	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	104		78-135
460-00-4	4-Bromofluorobenzene	100		67-126
2037-26-5	Toluene-d8 (Surr)	105		73-121
1868-53-7	Dibromofluoromethane (Surr)	107		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D
Lims ID: 460-159405-C-1-A
Client ID: PDI-17-SO-60-06272018
Sample Type: Client
Inject. Date: 11-Jul-2018 06:36:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159405-C-1-A
Misc. Info.: 460-0075214-026
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 09:07:55 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 09:07:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.004	3.010	-0.006	87	40490	28.7	
* 25 TBA-d9 (IS)	65	3.370	3.364	0.006	0	526978	1000.0	
26 Methylene Chloride	84	3.370	3.376	-0.006	32	10074	2.29	
* 38 2-Butanone-d5	46	4.449	4.455	-0.006	0	345264	250.0	
40 cis-1,2-Dichloroethene	96	4.498	4.504	-0.006	96	32561	6.50	
42 2-Butanone (MEK)	72	4.504	4.510	-0.006	40	4100	6.38	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.943	-0.006	97	221943	53.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.303	-0.007	0	199722	51.9	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	602231	50.0	
63 Trichloroethene	95	5.930	5.937	-0.007	95	517947	121.1	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	41648	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.260	-0.007	99	704592	52.3	
82 1,1,2-Trichloroethane	83	7.906	7.906	0.000	42	793	0.3037	M
83 Tetrachloroethene	166	7.954	7.954	0.000	95	15557	2.79	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	507424	50.0	
93 m-Xylene & p-Xylene	106	9.332	9.338	-0.006	0	1576	0.1983	
95 o-Xylene	106	9.802	9.802	0.000	88	818	0.0981	
$ 100 4-Bromofluorobenzene	174	10.405	10.411	-0.006	97	272358	50.0	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.509	-0.006	93	322673	50.0	
S 131 Xylenes, Total	100				0		0.2964	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

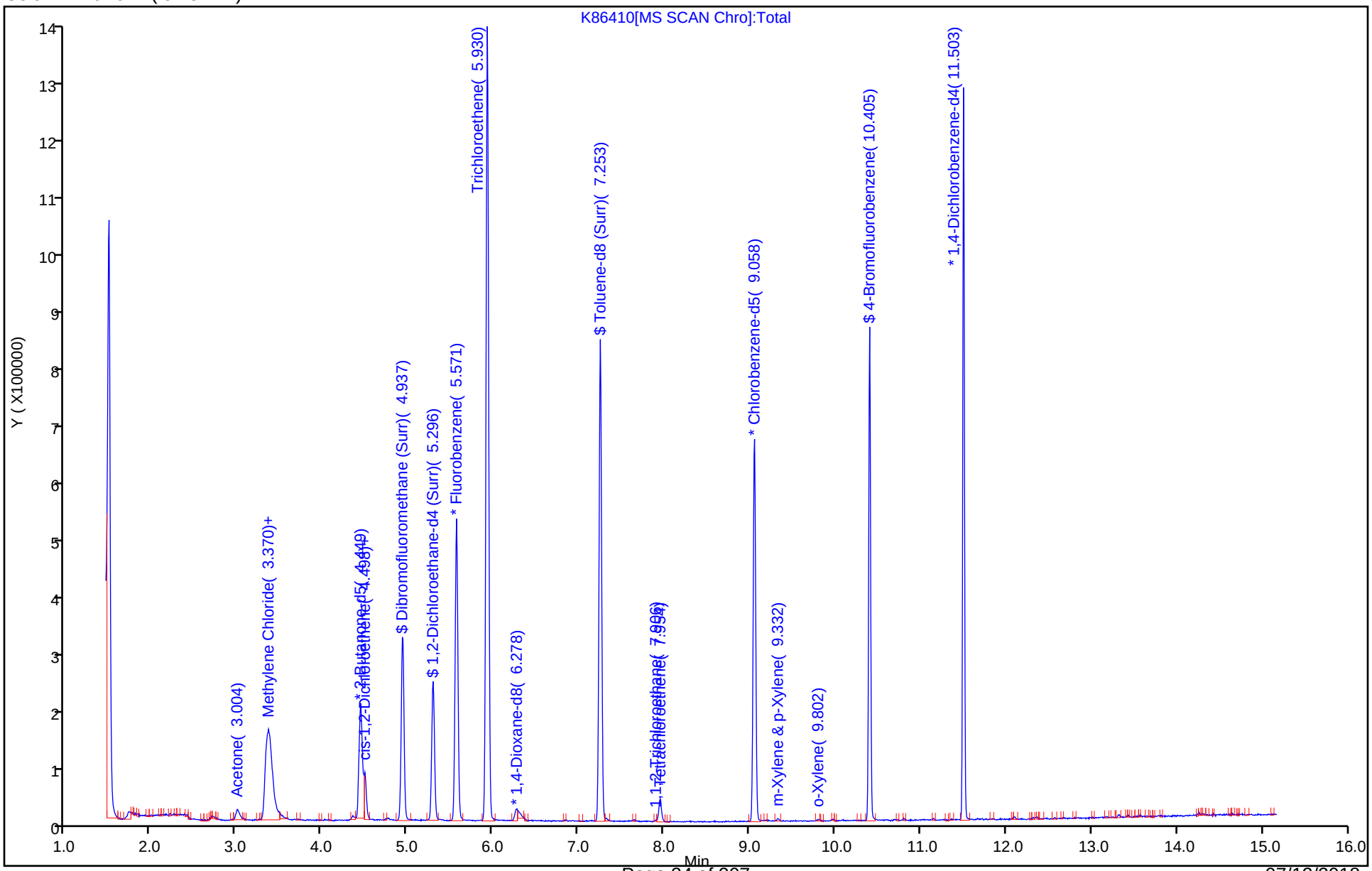
Report Date: 11-Jul-2018 09:07:56 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D

Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1	Worklist Smp#:	26
Client ID:	PDI-17-SO-60-06272018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

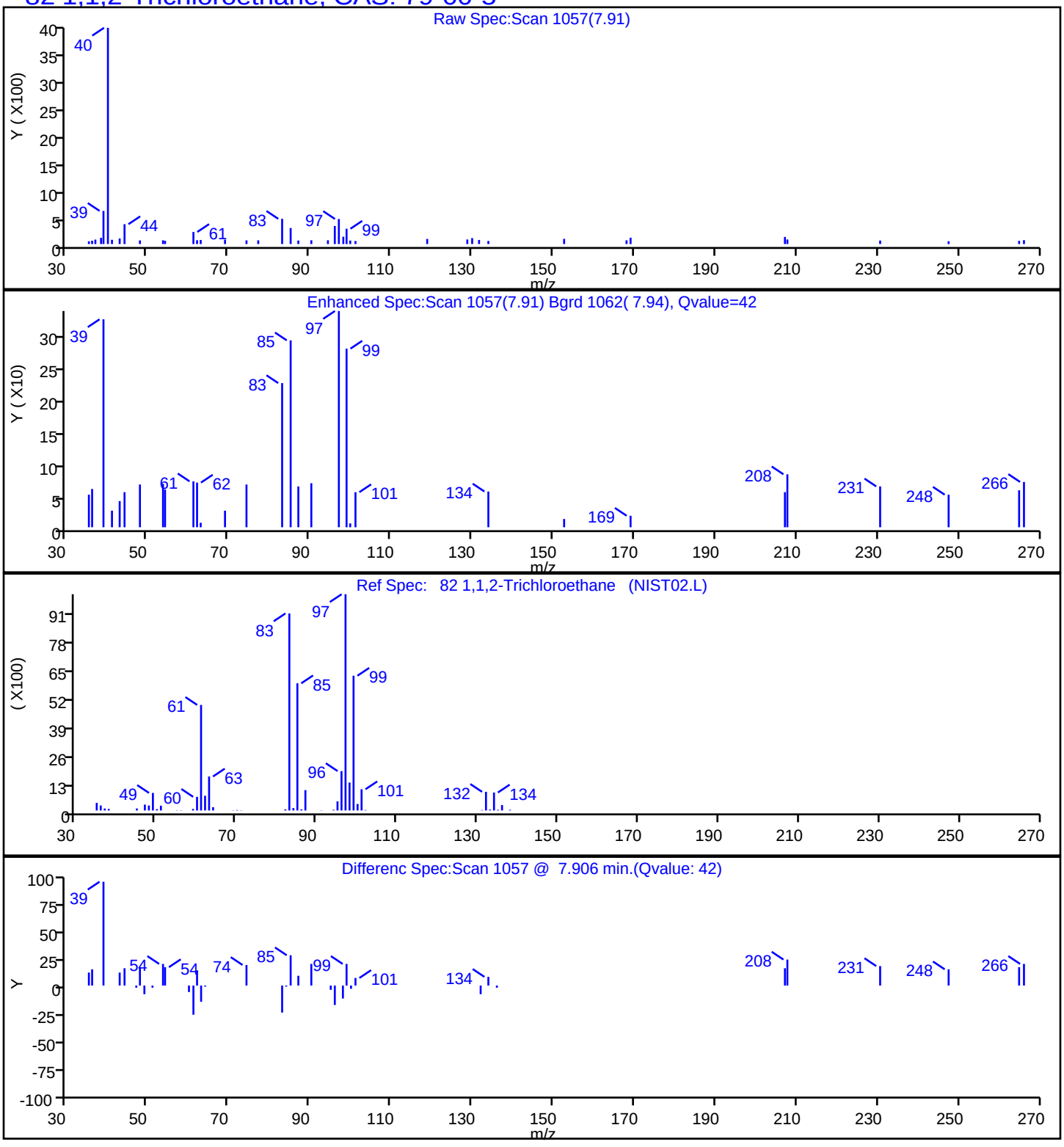
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

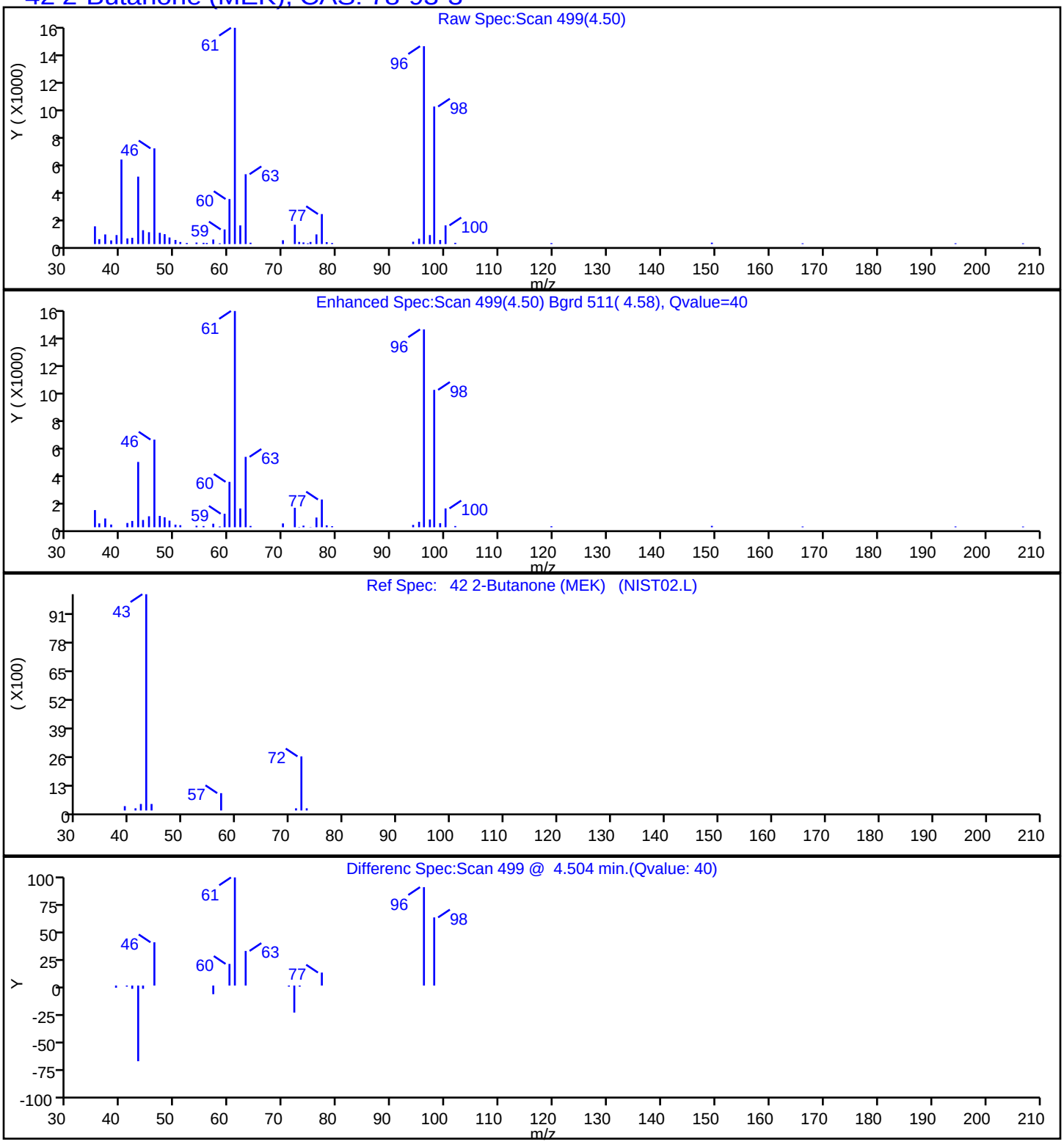


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D

Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1		
Client ID:	PDI-17-SO-60-06272018				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

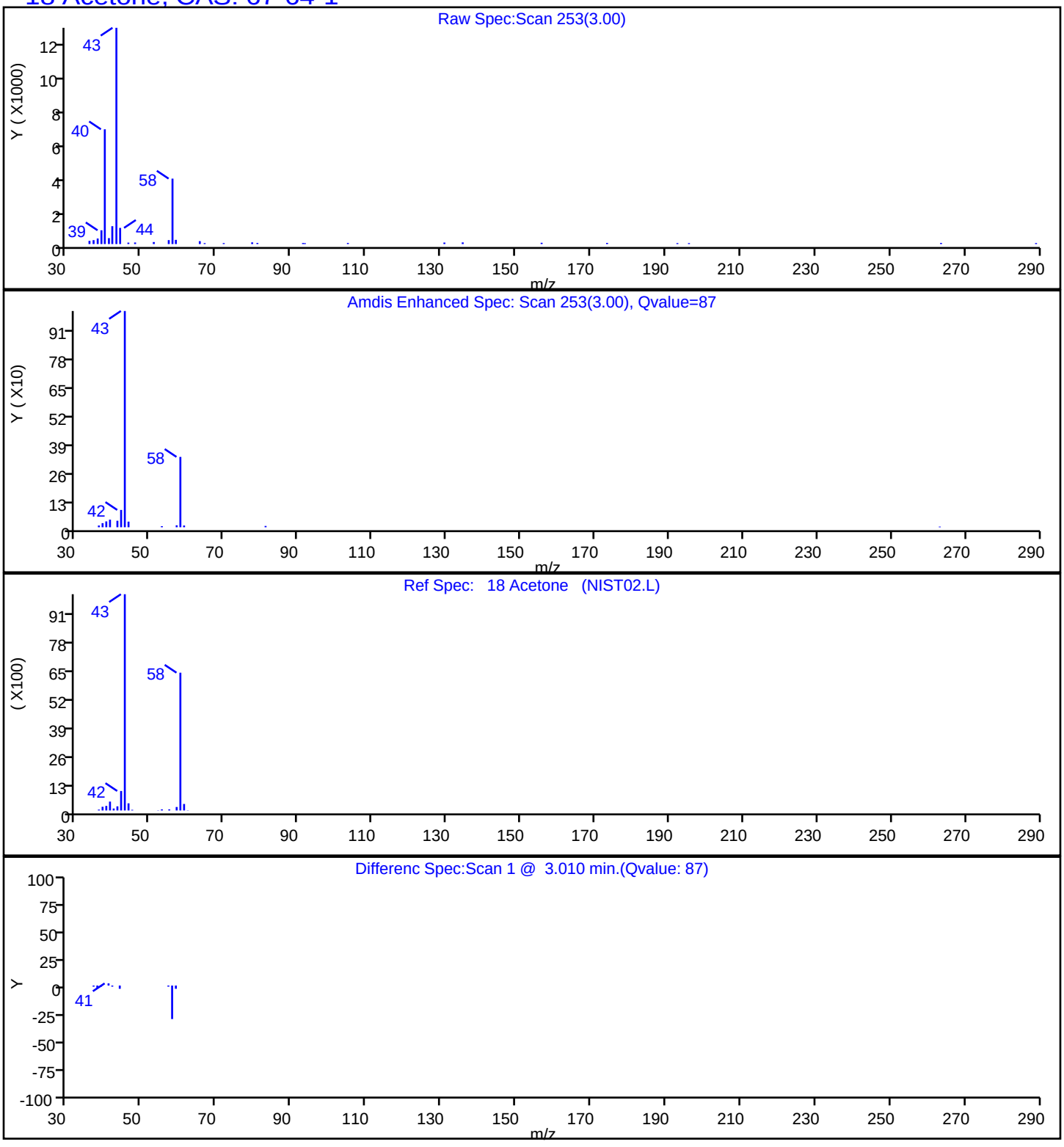
42 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

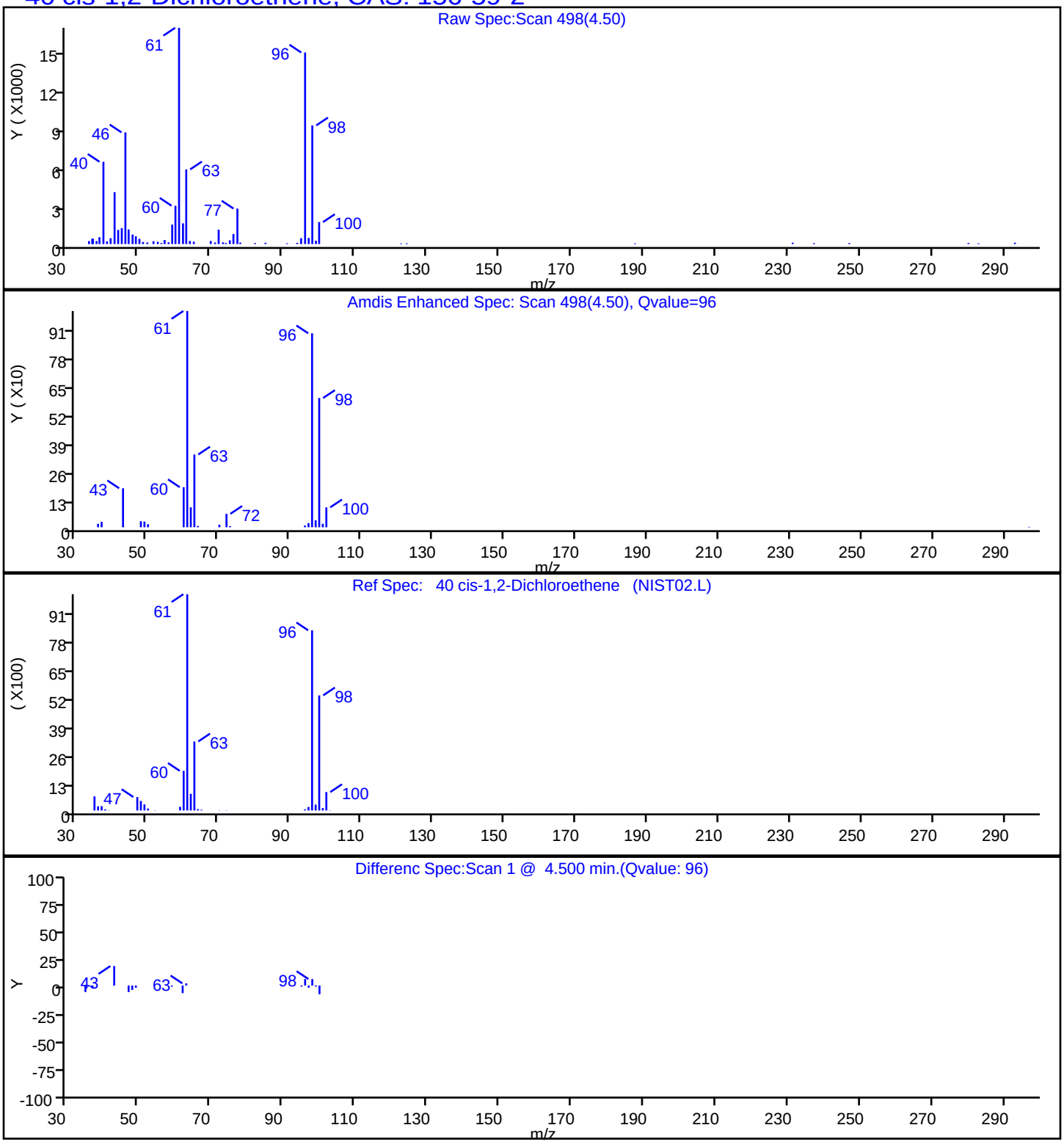
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

18 Acetone, CAS: 67-64-1



Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D
Injection Date: 11-Jul-2018 06:36:30 Instrument ID: CVOAMS9
Lims ID: 460-159405-C-1-A Lab Sample ID: 460-159405-1
Client ID: PDI-17-SO-60-06272018
Operator ID: ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

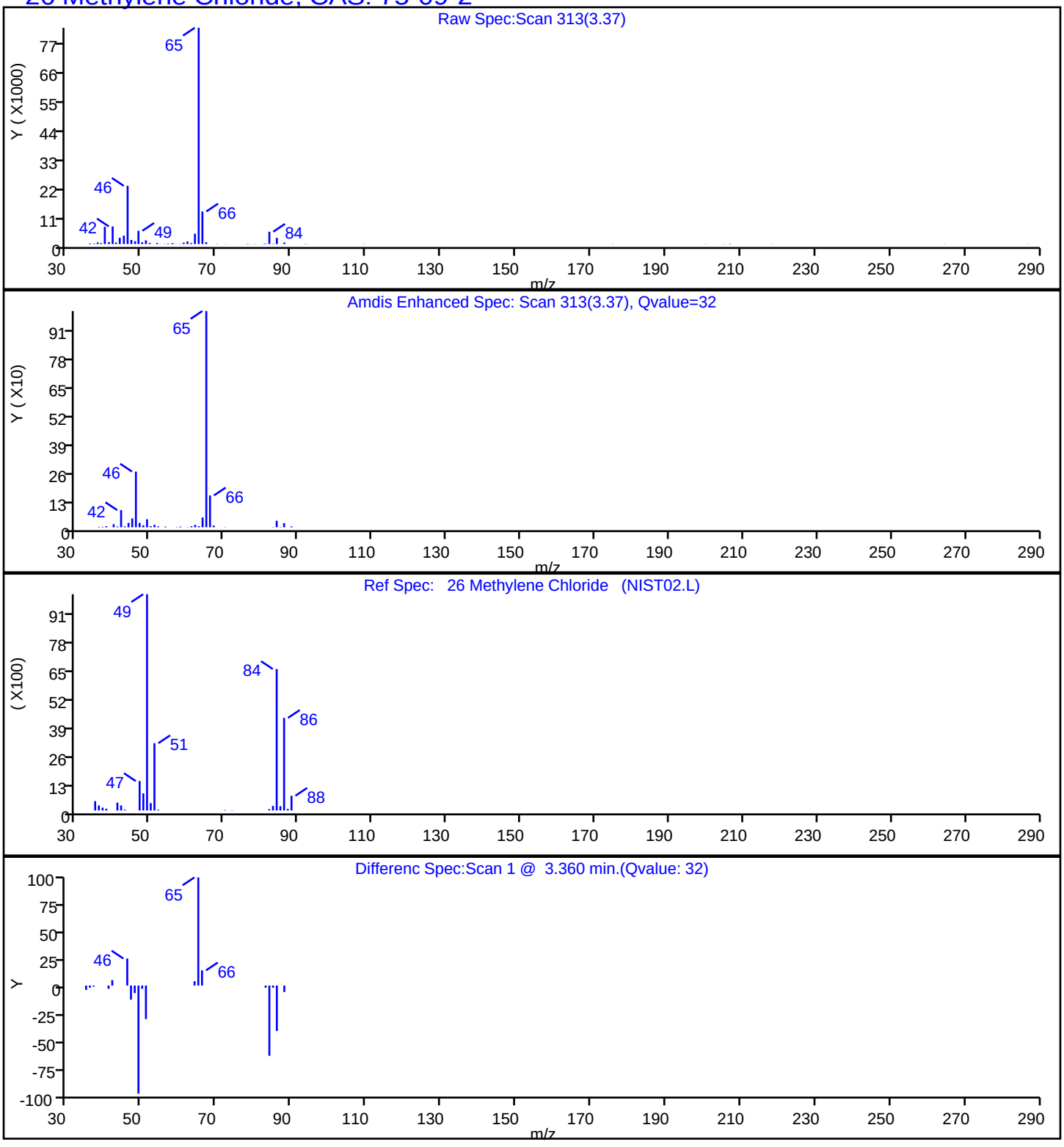
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

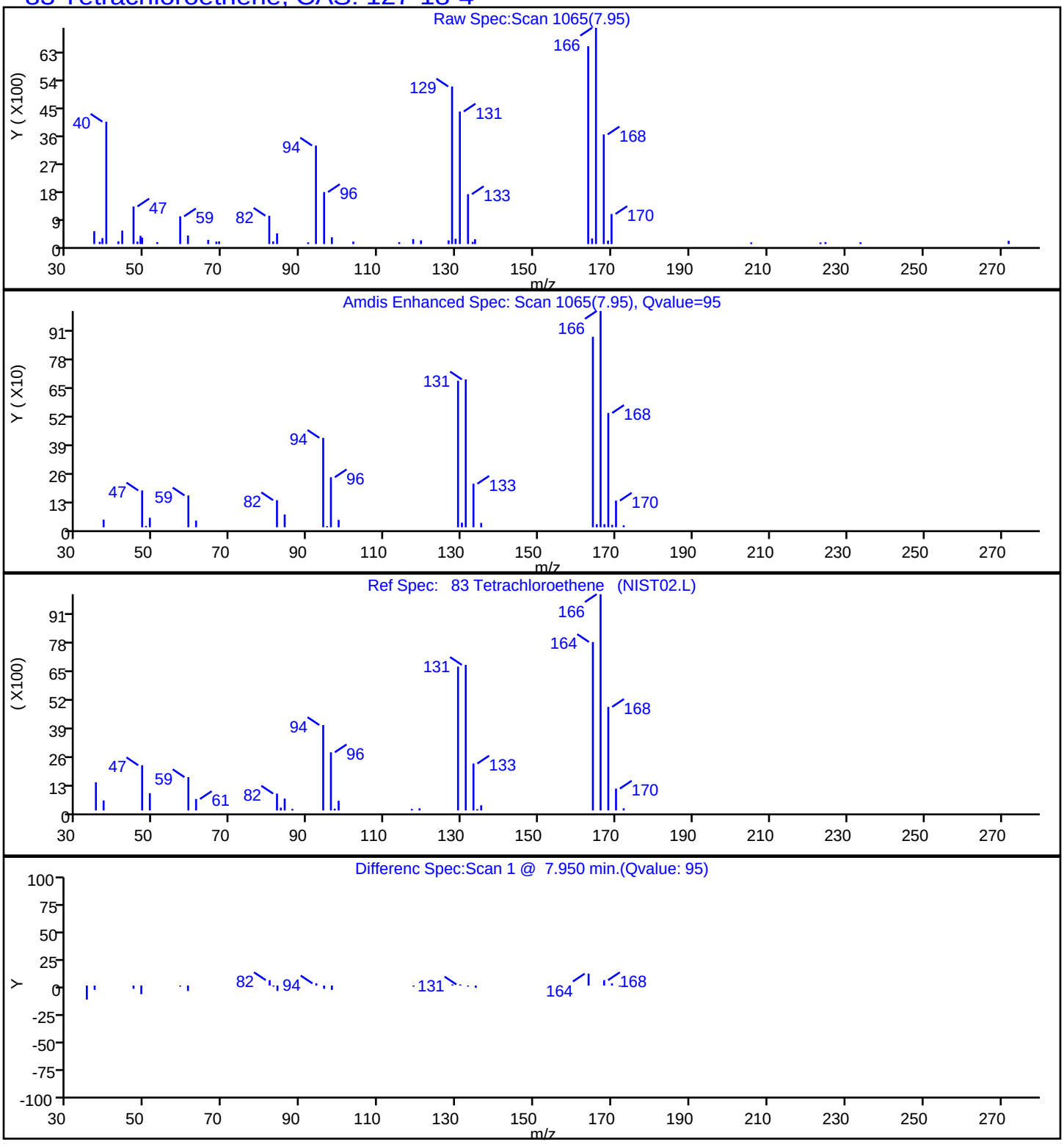
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

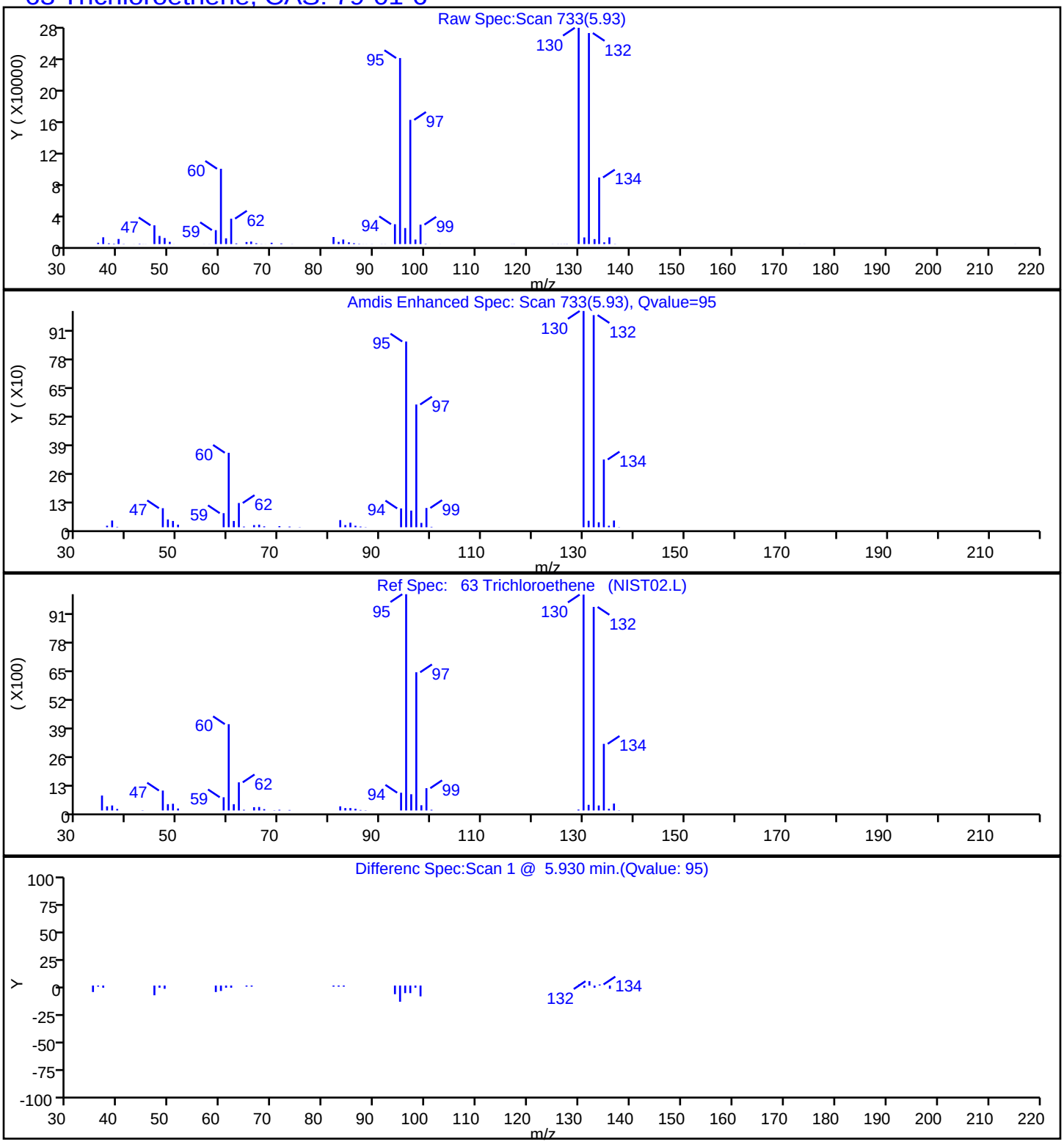
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

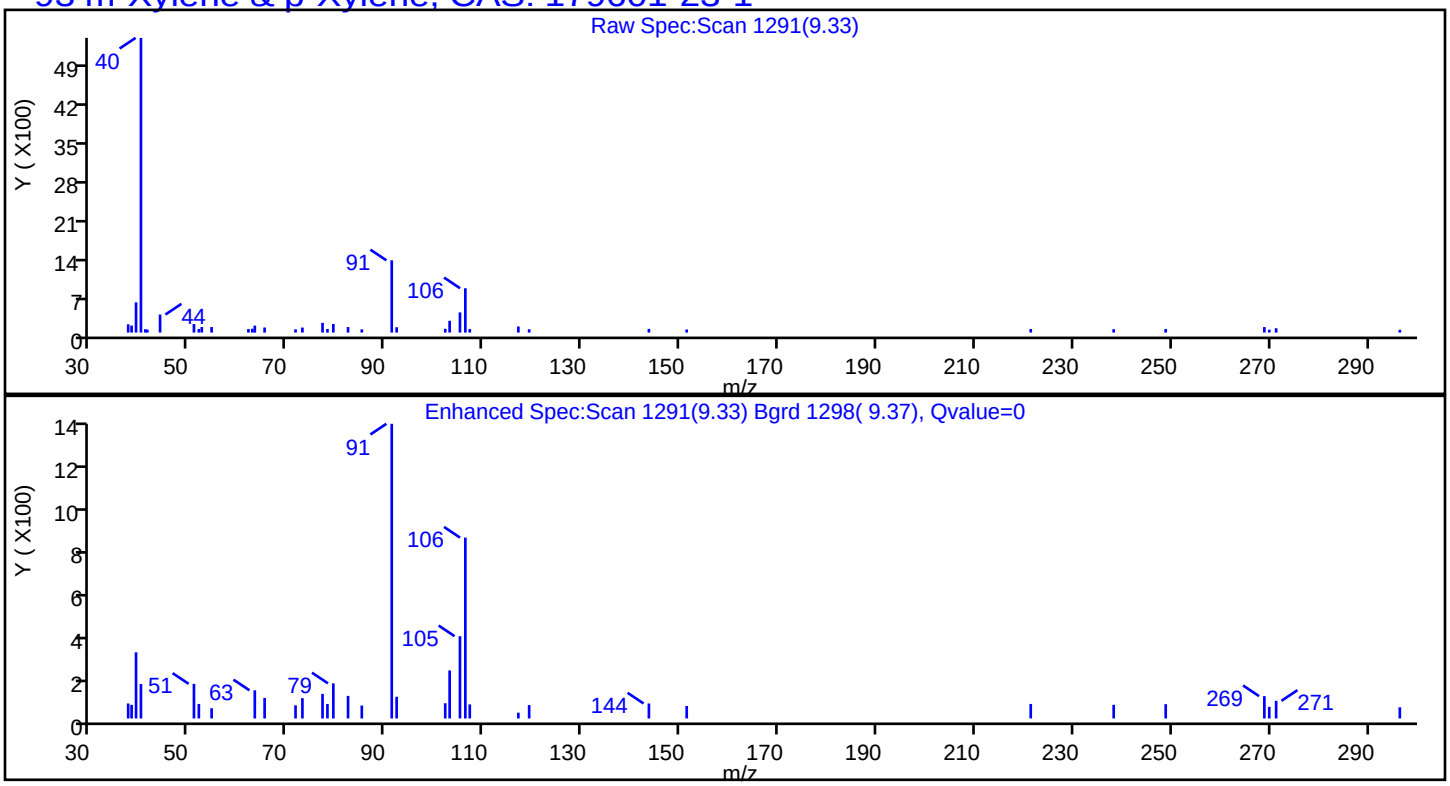
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D				
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1		
Client ID:	PDI-17-SO-60-06272018				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

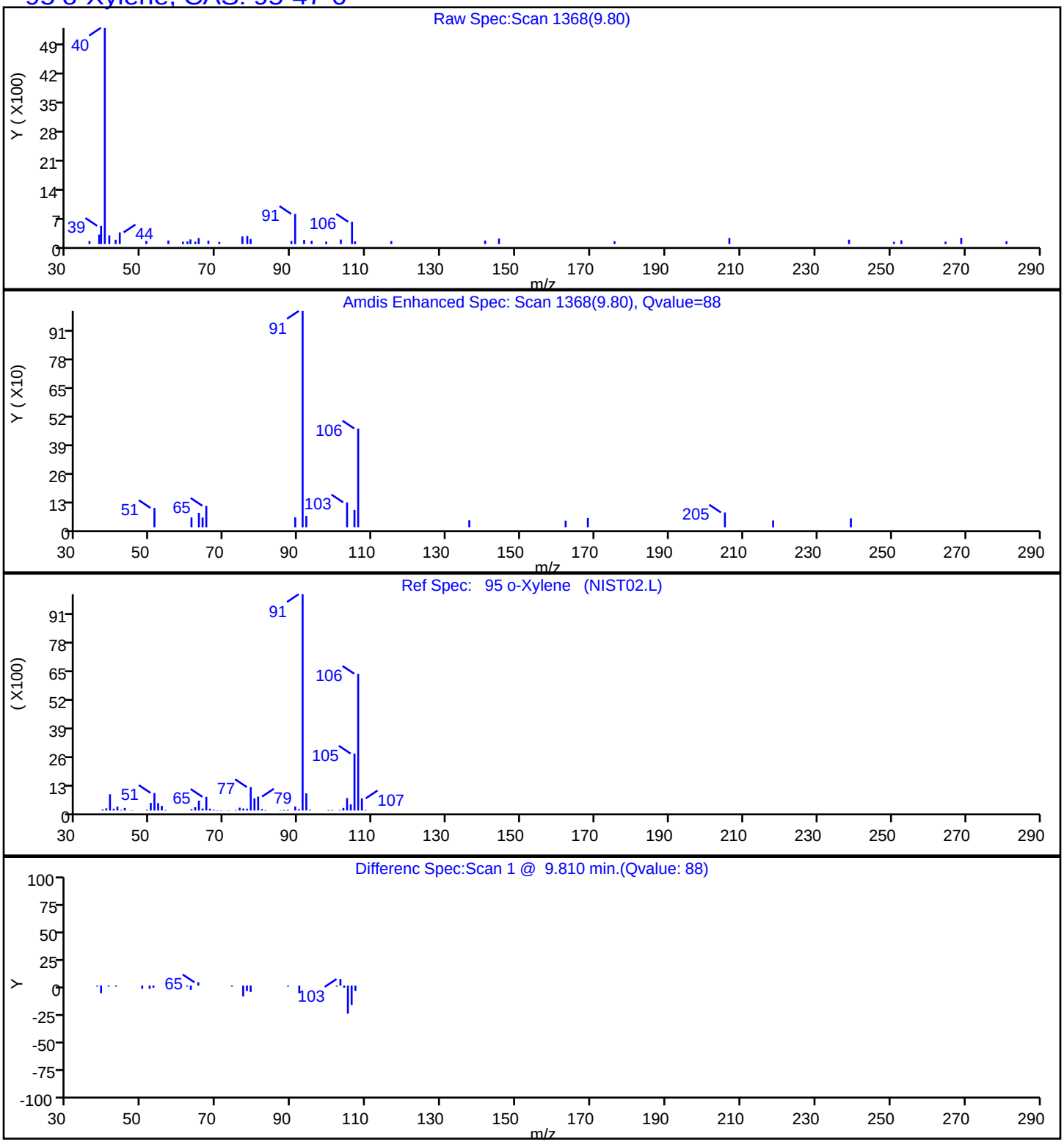
93 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

95 o-Xylene, CAS: 95-47-6



Manual Integration/User Assign Peak Report

TestAmerica Edison

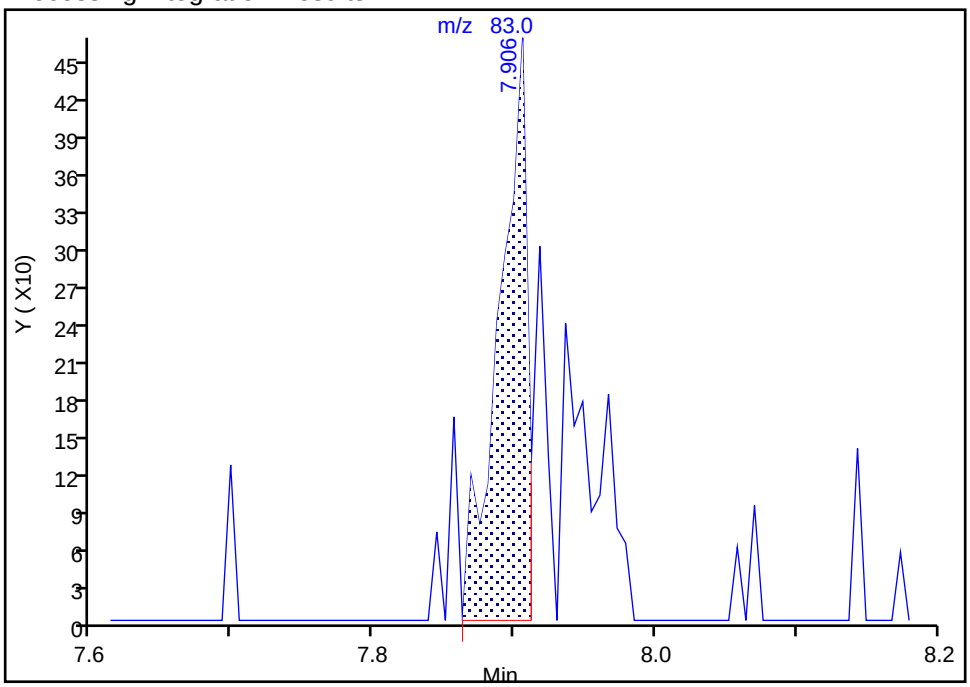
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D				
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1		
Client ID:	PDI-17-SO-60-06272018				
Operator ID:		ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

82 1,1,2-Trichloroethane, CAS: 79-00-5

Signal: 1

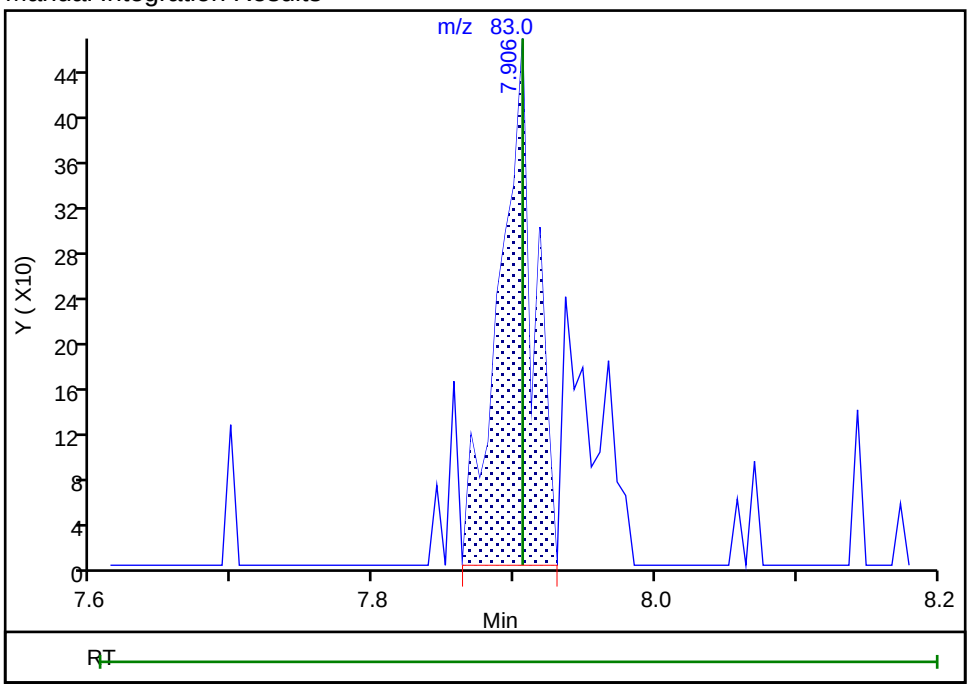
Processing Integration Results

RT: 7.91
Area: 638
Amount: 0.244373
Amount Units: ug/l



Manual Integration Results

RT: 7.91
Area: 793
Amount: 0.303743
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 09:07:41

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

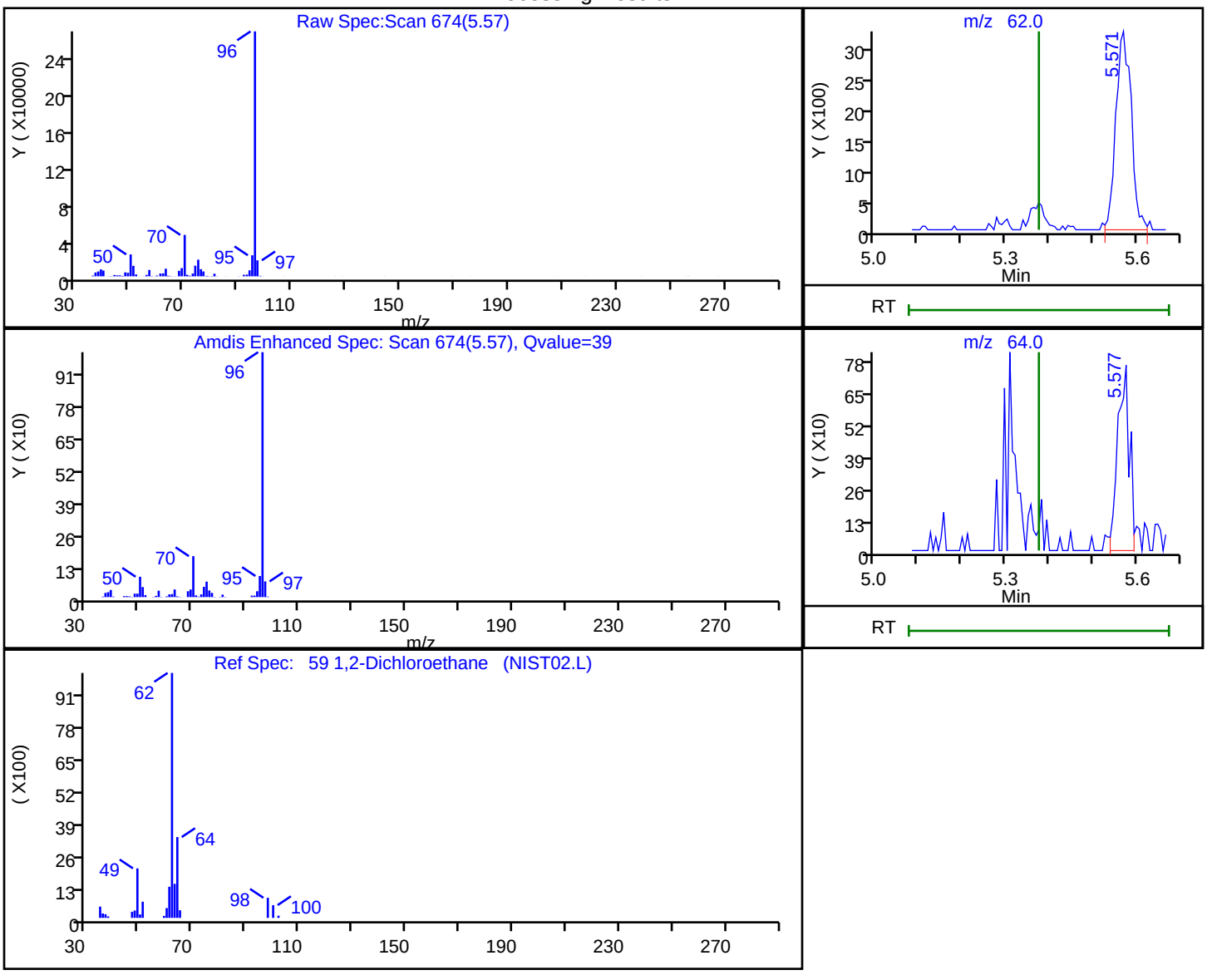
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.57	62.00	7860	1.457790
5.58	64.00	1425	

Reviewer: delpolitov, 11-Jul-2018 09:07:21

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

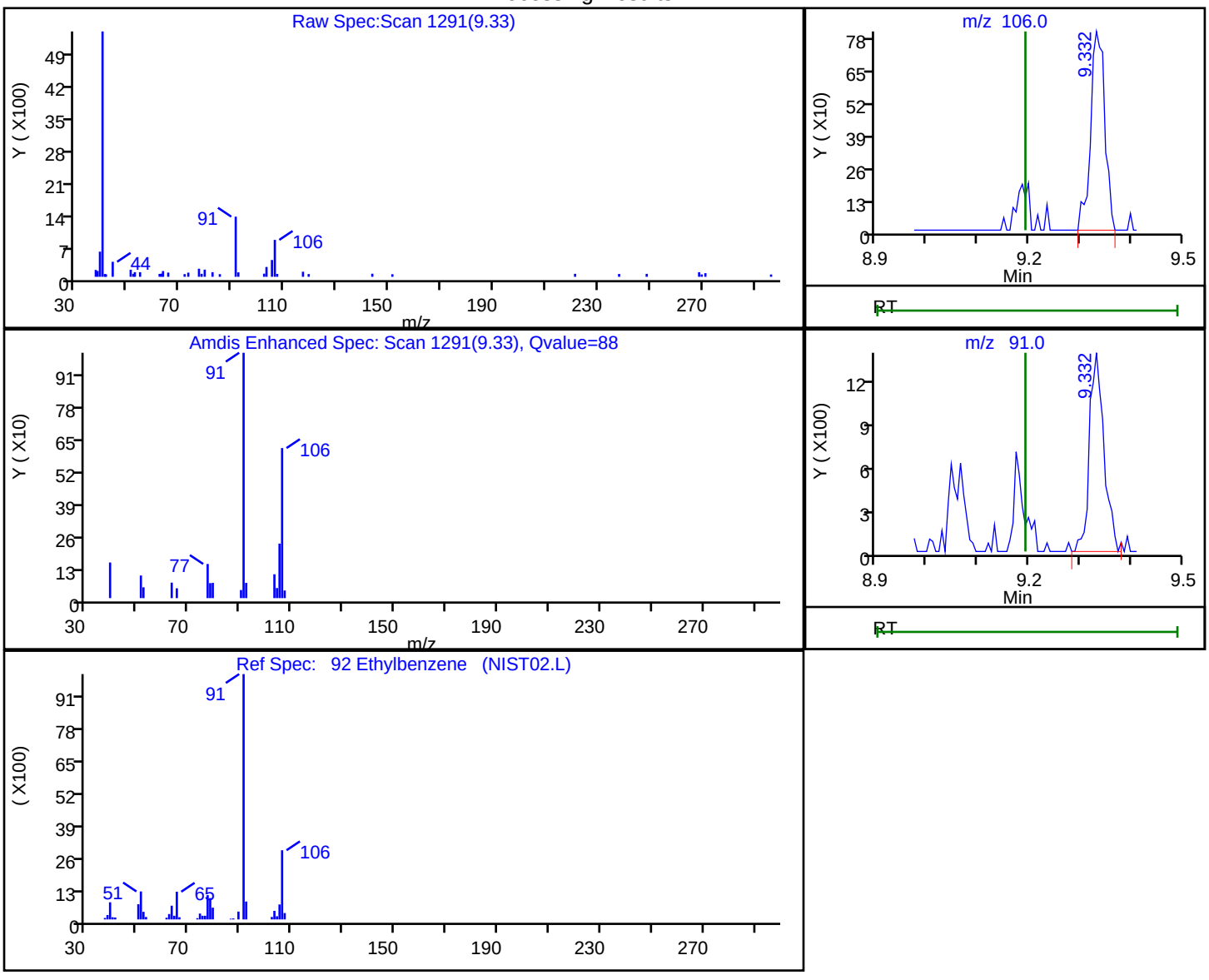
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86410.D		
Injection Date:	11-Jul-2018 06:36:30	Instrument ID:	CVOAMS9
Lims ID:	460-159405-C-1-A	Lab Sample ID:	460-159405-1
Client ID:	PDI-17-SO-60-06272018		
Operator ID:		ALS Bottle#:	25 Worklist Smp#: 26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.33	106.00	1576	0.243809
9.33	91.00	2624	

Reviewer: delpolitov, 11-Jul-2018 09:07:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2306 0.2568	0.1967	0.2501	0.2440	0.2679	Ave		0.2410				10.4		20.0			
Dichlorodifluoromethane	0.3764 0.5483	0.4582	0.5343	0.5260	0.5675	Ave		0.5018			0.1000	14.3		20.0			
Chloromethane	0.4231 0.4348	0.3828	0.3978	0.3922	0.4455	Ave		0.4127			0.1000	6.1		20.0			
Vinyl chloride	0.3914 0.4507	0.3796	0.4312	0.4289	0.4605	Ave		0.4237			0.1000	7.6		20.0			
Butadiene	0.2791 0.3682	0.3225	0.3443	0.3398	0.3677	Ave		0.3369				9.9		20.0			
Bromomethane	0.4141 0.3727	0.3685	0.3886	0.3828	0.3980	Ave		0.3874			0.1000	4.4		20.0			
Chloroethane	0.2015 0.2343	0.2226	0.2354	0.2357	0.2421	Ave		0.2286			0.1000	6.4		20.0			
Trichlorofluoromethane	0.5863 0.6378	0.6324	0.7143	0.7174	0.7382	Ave		0.6711			0.1000	9.0		20.0			
Dichlorofluoromethane	0.5386 0.5915	0.6281	0.6705	0.6850	0.7053	Ave		0.6365				9.9		20.0			
Pentane	1.8369 1.5228	1.2693	1.3554	1.5388	1.7505	Ave		1.5456				14.2		20.0			
Ethyl ether	0.2238 0.1878	0.1986	0.1898	0.1883	0.1853	Ave		0.1956				7.4		20.0			
Ethanol	0.0258 0.0448	0.0390	0.0455	0.0467	0.0443	Ave		0.0410				19.3		20.0			
2-Methyl-1,3-butadiene	0.2057 0.2171	0.1950	0.2176	0.2190	0.2064	Ave		0.2101				4.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3019 0.3360	0.3028	0.3427	0.3567	0.3430	Ave		0.3305				6.9		20.0			
Acrolein	1.0981 1.0459	1.0389	1.0719	1.0872	1.0307	Ave		1.0621				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3308 0.3630	0.3372	0.3619	0.3794	0.3691	Ave		0.3569			0.1000	5.3		20.0			
1,1-Dichloroethene	0.3868 0.3170	0.2996	0.3192	0.3114	0.3150	Ave		0.3248			0.1000	9.6		20.0			
Acetone	1.2493 0.9161	1.1095	0.9669	0.9028	0.9833	Ave		1.0213			0.0500	13.1		20.0			
Iodomethane	0.8551 0.7497	0.7248	0.8072	0.7849	0.7705	Ave		0.7820				5.8		20.0			
Isopropyl alcohol	0.5244 0.7287	0.7432	0.7084	0.6765	0.7352	Ave		0.6861				12.1		20.0			
Carbon disulfide	1.1786 1.0613	0.9386	1.0428	1.0409	1.0583	Ave		1.0534			0.1000	7.3		20.0			
Allyl chloride	0.1827 0.1952	0.1806	0.1925	0.1920	0.1891	Ave		0.1887				3.1		20.0			
Methyl acetate	5.8101 5.3004	4.9496	4.7388	4.9080	5.2972	Ave		5.1673			0.1000	7.5		20.0			
Cyclopentene	0.6240 0.6427	0.5548	0.6749	0.6674	0.6350	Ave		0.6331				6.8		20.0			
Acetonitrile	1.6589 1.1783	1.2709	1.2187	1.1942	1.2161	Ave		1.2895				14.2		20.0			
Methylene Chloride	0.4528 0.3367	0.3639	0.3518	0.3460	0.3406	Ave		0.3653			0.1000	12.0		20.0			
2-Methyl-2-propanol	1.7077 1.3940	1.5735	1.4118	1.3838	1.4295	Ave		1.4834				8.8		20.0			
Methyl tert-butyl ether	1.0368 0.8708	0.9057	0.9414	0.9029	0.9073	Ave		0.9275			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	0.3806 0.3346	0.3442	0.3512	0.3550	0.3426	Ave		0.3514			0.1000	4.6		20.0			
Acrylonitrile	0.0857 0.0848	0.0863	0.0864	0.0822	0.0852	Ave		0.0851				1.8		20.0			
Hexane	0.2252 0.2062	0.1591	0.2030	0.1954	0.2029	Ave		0.1986				11.0		20.0			
Isopropyl ether	0.8019 0.7360	0.7017	0.7376	0.7328	0.7317	Ave		0.7403				4.5		20.0			
1,1-Dichloroethane	0.5822 0.4962	0.4843	0.5213	0.5040	0.5075	Ave		0.5159			0.2000	6.7		20.0			
Vinyl acetate	2.2095 1.8781	1.8221	1.8890	1.8803	1.9556	Ave		1.9391				7.2		20.0			
2-Chloro-1,3-butadiene	0.2807 0.2848	0.2771	0.2886	0.3008	0.2858	Ave		0.2863				2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.9732 0.8334	0.8301	0.8742	0.8591	0.8365	Ave		0.8678				6.3		20.0			
2,2-Dichloropropane	0.1653 0.1566	0.1641	0.1704	0.1672	0.1634	Ave		0.1645				2.8		20.0			
cis-1,2-Dichloroethene	0.4905 0.3836	0.4037	0.4161	0.4063	0.3971	Ave		0.4162			0.1000	9.1		20.0			
Ethyl acetate	0.6799 0.3703	0.3543	0.3972	0.3828	0.3899	Qua2	0.6247	0.3563	0.0000245						0.9900		0.9900
2-Butanone (MEK)	0.5951 0.4088	0.4774	0.4438	0.4260	0.4412	Ave		0.4654			0.0500	14.5		20.0			
Methyl acrylate	0.2052 0.2130	0.2060	0.1999	0.1933	0.2079	Ave		0.2042				3.3		20.0			
Propionitrile	1.4709 1.2271	1.1276	1.1872	1.2023	1.2331	Ave		1.2414				9.6		20.0			
Tetrahydrofuran	0.6251 0.4790	0.5530	0.5048	0.5167	0.5248	Ave		0.5339				9.5		20.0			
Chlorobromomethane	0.2645 0.2147	0.2350	0.2365	0.2290	0.2245	Ave		0.2340				7.2		20.0			
Methacrylonitrile	0.1082 0.1069	0.1038	0.1075	0.1053	0.1074	Ave		0.1065				1.6		20.0			
Chloroform	0.7176 0.5948	0.6012	0.6201	0.6248	0.6131	Ave		0.6286			0.2000	7.2		20.0			
Cyclohexane	0.4162 0.4760	0.4042	0.4859	0.4931	0.4917	Ave		0.4612			0.1000	8.7		20.0			
1,1,1-Trichloroethane	0.6241 0.5816	0.5741	0.6210	0.6129	0.6001	Ave		0.6023			0.1000	3.5		20.0			
Carbon tetrachloride	0.5413 0.5360	0.4853	0.5531	0.5503	0.5399	Ave		0.5343			0.1000	4.7		20.0			
1,1-Dichloropropene	0.4757 0.4172	0.3753	0.4374	0.4315	0.4264	Ave		0.4272				7.6		20.0			
Isobutyl alcohol	0.0689 0.0581	0.0446	0.0566	0.0524	0.0608	Ave		0.0569				14.3		20.0			
Benzene	1.6027 1.3401	1.3709	1.4541	1.4276	1.4322	Ave		1.4379			0.5000	6.3		20.0			
Isopropyl acetate	0.8181 0.8625	0.7362	0.7767	0.7736	0.8129	Ave		0.7967				5.5		20.0			
Tert-amyl methyl ether	0.3368 0.3021	0.2979	0.3158	0.3132	0.3087	Ave		0.3124				4.4		20.0			
1,2-Dichloroethane	0.5565 0.4219	0.4389	0.4272	0.4169	0.4245	Ave		0.4476			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.2452 0.2444	0.1892	0.2407	0.2383	0.2327	Ave		0.2317				9.2		20.0			
n-Butanol	0.3360 0.3375	0.2408	0.2858	0.2905	0.3260	Ave		0.3028				12.5		20.0			
Trichloroethene	0.3424 0.3609	0.3347	0.3673	0.3606	0.3641	Ave		0.3550			0.2000	3.7		20.0			
Ethyl acrylate	0.2319 0.1693	0.1584	0.1811	0.1711	0.1684	Ave		0.1800				14.7		20.0			
Methylcyclohexane	0.5304 0.5839	0.5263	0.6331	0.6206	0.6060	Ave		0.5834			0.1000	7.8		20.0			
1,2-Dichloropropane	0.2984 0.2725	0.2571	0.2627	0.2674	0.2718	Ave		0.2717			0.1000	5.3		20.0			
Methyl methacrylate	0.1436 0.1842	0.1639	0.1719	0.1690	0.1821	Ave		0.1691				8.7		20.0			
n-Propyl acetate	0.3371 0.3319	0.2894	0.2963	0.2906	0.3188	Ave		0.3107				6.9		20.0			
1,4-Dioxane	1.6427 1.3603	1.3974	1.5809	1.3814	1.5760	Ave		1.4898				8.3		20.0			
Dibromomethane	0.2678 0.2238	0.2274	0.2227	0.2174	0.2248	Ave		0.2306				8.0		20.0			
Bromodichloromethane	0.4764 0.4585	0.4127	0.4422	0.4321	0.4523	Ave		0.4457			0.2000	5.0		20.0			
2-Chloroethyl vinyl ether	0.1480 0.1564	0.1344	0.1422	0.1416	0.1484	Ave		0.1452				5.2		20.0			
2-Nitropropane	0.0736 0.0653	0.0461	0.0511	0.0485	0.0569	Ave		0.0569				18.8		20.0			
Epichlorohydrin	0.3360 0.3293	0.3068	0.3262	0.3286	0.3445	Ave		0.3286				3.8		20.0			
cis-1,3-Dichloropropene	0.6173 0.5538	0.4965	0.5299	0.5310	0.5639	Ave		0.5487			0.2000	7.5		20.0			
4-Methyl-2-pentanone (MIBK)	3.2468 2.8954	2.8918	3.0767	3.0726	3.1503	Ave		3.0556			0.0500	4.6		20.0			
Toluene	1.8989 1.5874	1.5675	1.6625	1.6525	1.6651	Ave		1.6723			0.4000	7.1		20.0			
trans-1,3-Dichloropropene	0.5617 0.5092	0.4517	0.4793	0.4826	0.5080	Ave		0.4988			0.1000	7.5		20.0			
Ethyl methacrylate	0.4379 0.3916	0.3768	0.3876	0.3854	0.4035	Ave		0.3971				5.5		20.0			
1,1,2-Trichloroethane	0.2674 0.2574	0.2447	0.2553	0.2555	0.2633	Ave		0.2573			0.1000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.6127 0.5188	0.5028	0.5608	0.5590	0.5444	Ave		0.5497			0.2000	7.0		20.0			
1,3-Dichloropropane	0.5452 0.4659	0.4469	0.4536	0.4517	0.4683	Ave		0.4719				7.8		20.0			
2-Hexanone	2.1052 1.9027	1.8446	1.9433	1.9298	2.0055	Ave		1.9552			0.0500	4.6		20.0			
n-Butyl acetate	0.4440 0.3711	0.3788	0.3699	0.3573	0.3715	Ave		0.3821				8.1		20.0			
Dibromochloromethane	0.4003 0.4358	0.3819	0.3900	0.3971	0.4303	Ave		0.4059			0.1000	5.4		20.0			
1,2-Dibromoethane	0.3827 0.3541	0.3516	0.3623	0.3502	0.3628	Ave		0.3606			0.1000	3.3		20.0			
Chlorobenzene	1.2760 1.1373	1.1211	1.1862	1.1716	1.1769	Ave		1.1782			0.5000	4.6		20.0			
Ethylbenzene	0.6871 0.6038	0.6001	0.6509	0.6436	0.6362	Ave		0.6370			0.1000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.5322 0.4745	0.4594	0.4857	0.4867	0.4966	Ave		0.4892				5.0		20.0			
m-Xylene & p-Xylene	0.8587 0.7413	0.7371	0.7869	0.7905	0.7831	Ave		0.7829			0.1000	5.6		20.0			
n-Butyl acrylate	0.2432 0.2289	0.2326	0.2405	0.2378	0.2385	Ave		0.2369				2.2		20.0			
o-Xylene	0.9008 0.7696	0.7879	0.8248	0.8293	0.8197	Ave		0.8220			0.3000	5.5		20.0			
Styrene	1.2096 1.2406	1.2023	1.2941	1.2971	1.3014	Ave		1.2575			0.3000	3.6		20.0			
Amyl acetate (mixed isomers)	0.6899 0.7447	0.6903	0.6807	0.7042	0.7374	Ave		0.7079				3.8		20.0			
Bromoform	0.3000 0.2917	0.2547	0.2580	0.2586	0.2834	Ave		0.2744			0.1000	7.2		20.0			
Isopropylbenzene	2.1553 2.0303	1.9760	2.2243	2.2254	2.1859	Ave		2.1329			0.1000	4.9		20.0			
Bromobenzene	1.0419 0.9589	0.9245	0.9616	0.9706	0.9929	Ave		0.9751				4.1		20.0			
1,1,2,2-Tetrachloroethane	0.7554 0.6963	0.6327	0.6877	0.6775	0.7151	Ave		0.6941			0.3000	5.9		20.0			
N-Propylbenzene	3.5407 3.5670	3.3595	3.6474	3.7685	3.7292	Ave		3.6021				4.1		20.0			
1,2,3-Trichloropropane	0.2081 0.2170	0.2277	0.2105	0.2187	0.2240	Ave		0.2177				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.1897 0.1624	0.1427	0.1558	0.1533	0.1640	Ave		0.1613				9.8		20.0			
2-Chlorotoluene	2.5980 2.4982	2.3185	2.4953	2.5839	2.5670	Ave		2.5101				4.1		20.0			
4-Ethyltoluene	3.3807 3.1756	3.0726	3.3124	3.4184	3.3009	Ave		3.2768				4.0		20.0			
1,3,5-Trimethylbenzene	2.7404 2.9394	2.5760	2.9056	2.9968	3.0613	Ave		2.8699				6.3		20.0			
4-Chlorotoluene	2.0696 2.1461	1.9264	2.0888	2.1511	2.1913	Ave		2.0956				4.5		20.0			
Butyl Methacrylate	0.7661 0.8539	0.7483	0.8064	0.8295	0.8649	Ave		0.8115				5.8		20.0			
tert-Butylbenzene	2.3028 2.5766	2.0843	2.4312	2.5951	2.6497	Ave		2.4400				8.8		20.0			
1,2,4-Trimethylbenzene	2.9255 3.0019	2.7827	3.0278	3.1040	3.1400	Ave		2.9970				4.3		20.0			
sec-Butylbenzene	3.5737 3.7242	3.1956	3.7296	3.9103	3.9248	Ave		3.6764				7.3		20.0			
4-Isopropyltoluene	3.4155 3.4130	3.0346	3.4917	3.6283	3.6213	Ave		3.4341				6.3		20.0			
1,3-Dichlorobenzene	2.0296 1.7236	1.7577	1.8869	1.8838	1.8311	Ave		1.8521			0.6000	5.9		20.0			
1,4-Dichlorobenzene	2.1226 1.7318	1.8354	1.8599	1.8622	1.8325	Ave		1.8741			0.5000	7.0		20.0			
Benzyl chloride	1.4558 1.4598	1.4279	1.4559	1.4510	1.5021	Ave		1.4588				1.7		20.0			
Indan	3.2506 3.1065	3.0707	3.2439	3.2908	3.2616	Ave		3.2040				2.9		20.0			
p-Diethylbenzene	1.9731 1.8593	1.8931	2.1311	2.1148	1.9530	Ave		1.9874				5.7		20.0			
n-Butylbenzene	1.5237 1.5860	1.4617	1.6562	1.7008	1.6761	Ave		1.6008				5.9		20.0			
1,2-Dichlorobenzene	1.9968 1.7888	1.7862	1.8859	1.9017	1.8867	Ave		1.8743			0.4000	4.2		20.0			
1,2,4,5-Tetramethylbenzene	3.3549 3.3554	3.1987	3.4869	3.6409	3.5939	Ave		3.4384				4.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1682 0.1425	0.1403	0.1317	0.1313	0.1440	Ave		0.1430			0.0500	9.4		20.0			
1,3,5-Trichlorobenzene	1.8160 1.5629	1.7148	1.7642	1.7545	1.6665	Ave		1.7132				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.7451 1.4720	1.6259	1.6639	1.6663	1.6059	Ave		1.6298			0.2000	5.6		20.0			
Hexachlorobutadiene	0.7920 0.7976	0.7046	0.8139	0.8438	0.8333	Ave		0.7975				6.2		20.0			
Naphthalene	3.6044 3.1733	3.3595	3.4411	3.4195	3.4048	Ave		3.4004				4.1		20.0			
1,2,3-Trichlorobenzene	1.6823 1.4362	1.5316	1.6274	1.6007	1.5582	Ave		1.5727				5.4		20.0			
Dibromofluoromethane (Surr)	0.3539 0.3345	0.3588	0.3509	0.3333	0.3329	Ave		0.3441				3.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3114 0.3550	0.3059	0.3067	0.3097	0.3294	Ave		0.3197				6.0		20.0			
Toluene-d8 (Surr)	1.3560 1.3187	1.3122	1.3247	1.3282	1.3282	Ave		1.3280				1.1		20.0			
4-Bromofluorobenzene	0.5506 0.5180	0.5434	0.5535	0.5300	0.5269	Ave		0.5371				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	2261 1581916	10049	52418	130419	607536	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Ave	3690 3377692	23410	111998	281125	1286845	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	4148 2678351	19558	83388	209589	1010119	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	3837 2776562	19396	90381	229225	1044128	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	2736 2267895	16478	72182	181610	833795	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	4060 2295633	18827	81457	204558	902516	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1976 1443523	11373	49348	125970	549048	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	5748 3928777	32312	149729	383407	1674031	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	5281 3643782	32091	140559	366071	1599349	1.00 500	5.00	20.0	50.0	200
Pentane	TBAd9	Ave	1055 544545	4094	17093	46935	227930	2.00 1000	10.0	40.0	100	400
Ethyl ether	FB	Ave	2194 1156540	10146	39782	100630	420279	1.00 500	5.00	20.0	50.0	200
Ethanol	TBAd9	Ave	296 320534	2517	11486	28493	115315	40.0 20000	200	800	2000	8000
2-Methyl-1,3-butadiene	FB	Ave	2017 1337127	9964	45609	117038	468066	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	2960 2069978	15471	71847	190654	777768	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	31536 224402	67018	101383	132647	167756	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3243 2235757	17230	75863	202738	837057	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	3792 1952859	15305	66915	166446	714314	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	Ave	4442 2274136	21583	75553	176068	842718	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	8384 4617815	37031	169207	419457	1747261	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	1506 1302896	11986	44664	103170	478640	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	11556 6537358	47954	218590	556272	2399859	1.00 500	5.00	20.0	50.0	200
Allyl chloride	FB	Ave	1791 1202538	9229	40344	102616	428768	1.00 500	5.00	20.0	50.0	200
Methyl acetate	TBAd9	Ave	3337 1895329	15964	59759	149700	689720	2.00 1000	10.0	40.0	100	400
Cyclopentene	FB	Ave	6118 3958854	28347	141480	356651	1439985	1.00 500	5.00	20.0	50.0	200
Acetonitrile	TBAd9	Ave	4764 2106672	20495	76843	182117	791685	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	4439 2074080	18594	73739	184920	772369	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	4904 2492265	25375	89019	211033	930632	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	10165 5364126	46271	197329	482529	2057279	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	3732 2061170	17585	73612	189715	776878	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	8398 5224689	44073	181194	439324	1931080	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	2208 1270133	8126	42552	104407	460117	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	7862 4533607	35852	154624	391625	1659263	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	5708 3056763	24741	109284	269363	1150773	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	TBAd9	Ave	1269 671562	5877	23821	57351	254633	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	2752 1754438	14158	60491	160745	648116	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	9542 5133710	42410	183248	459151	1896772	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	1621 964832	8382	35715	89356	370450	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	4809 2362856	20626	87227	217144	900467	1.00 500	5.00	20.0	50.0	200
Ethyl acetate	BUT	Qua2	967 367753	2757	12416	29864	133642	2.00 1000	10.0	40.0	100	400
2-Butanone (MEK)	BUT	Ave	2116 1014737	9286	34679	83071	378071	5.00 2500	25.0	100	250	1000
Methyl acrylate	FB	Ave	2012 1312106	10523	41899	103291	471496	1.00 500	5.00	20.0	50.0	200
Propionitrile	TBAd9	Ave	4224 2193917	18185	74854	183361	802779	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	889 475618	4303	15777	40304	179889	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	2593 1322454	12006	49578	122405	509139	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	10612 6585300	53044	225394	562513	2435931	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	7036 3664152	30715	129987	333917	1390169	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	4081 2931920	20650	101855	263540	1114906	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	6119 3582611	29332	130186	327534	1360855	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	5307 3301487	24796	115933	294074	1224185	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	4664 2569628	19172	91697	230608	966910	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	495 259572	1798	8917	19987	98909	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	13254 7522135	59717	263486	665118	2855529	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	8021 5312631	37612	162815	413420	1843436	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	3302 1860834	15219	66196	167390	700029	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	5456 2598734	22423	89552	222791	962696	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	2404 1505522	9667	50453	127334	527709	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	2412 1508710	9707	45046	110752	530638	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	3357 2223117	17099	76997	192736	825738	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	2274 1042735	8095	37954	91463	381762	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	5200 3596894	26889	132704	331651	1374050	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2926 1678479	13133	55073	142919	616377	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	2815 2269442	16744	72070	180614	825729	2.00 1000	10.0	40.0	100	400
n-Propyl acetate	FB	Ave	3305 2044198	14785	62119	155324	722807	1.00 500	5.00	20.0	50.0	200
1,4-Dioxane	DXE	Ave	832 469341	4033	18123	41357	181733	20.0 10000	100	400	1000	4000
Dibromomethane	FB	Ave	2626 1378497	11618	46676	116161	509861	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	4671 2824018	21083	92702	230925	1025706	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	1451 963542	6869	29805	75700	336535	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	1443 804088	4711	21432	51826	257855	2.00 1000	10.0	40.0	100	400
Epichlorohydrin	BUT	Ave	4778 3270235	23871	101973	256352	1180824	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	5105 3108588	21627	96016	247393	1124267	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	11544 7187745	56254	240422	599225	2699838	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	15703 8910383	68282	301255	769909	3319799	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	4645 2858319	19676	86857	224848	1012794	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	CBNZ d5	Ave	3621 2198043	16415	70228	179539	804595	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	2211 1444634	10661	46261	119023	524975	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	5067 2911873	21904	101618	260413	1085505	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	4509 2615165	19466	82201	210429	933709	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	7485 4723504	35883	151851	376353	1718735	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	3672 2083090	16499	67025	166473	740660	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromochloromethane	CBNZ d5	Ave	3310 2446176	16637	70673	185004	857879	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBNZ d5	Ave	3165 1987867	15316	65649	163141	723392	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	10552 6383930	48838	214946	545861	2346554	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	5682 3389025	26141	117941	299865	1268542	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4401 2663401	20011	88009	226767	990217	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	7101 4161018	32110	142588	368302	1561340	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	2011 1285099	10132	43582	110767	475456	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	7449 4319691	34320	149451	386379	1634374	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	10003 6963830	52373	234499	604297	2594673	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	3790 2524491	19888	80880	207413	914505	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	2481 1637292	11095	46754	120501	565141	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Ave	17824 11396490	86076	403055	1036812	4358252	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	5724 3250676	26635	114264	285875	1231290	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4150 2360354	18228	81714	199535	886776	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	19452 12091924	96790	433409	1109900	4624829	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	1143 735701	6561	25010	64414	277760	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1042 550467	4112	18515	45136	203418	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	14273 8468683	66796	296512	761014	3183461	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	18573 10765115	88524	393601	1006783	4093676	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	15055 9964542	74216	345257	882629	3796493	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	11370 7275181	55500	248210	633538	2717604	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	4209 2894862	21560	95827	244299	1072625	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Ave	12651 8734687	60051	288890	764303	3286057	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	16072 10176278	80171	359787	914193	3894089	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Ave	19633 12624955	92066	443178	1151652	4867383	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Ave	18764 11570143	87428	414905	1068622	4491019	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	11150 5842995	50640	224210	554819	2270831	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	11661 5870913	52879	221000	548468	2272564	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	7998 4948561	41138	173003	427347	1862889	1.00 500	5.00	20.0	50.0	200
Indan	DCBd 4	Ave	17858 10530920	88467	385458	969203	4044900	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	10840 6303088	54541	253230	622855	2422045	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Ave	8371 5376664	42111	196798	500935	2078634	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	10970 6064086	51461	224089	560102	2339789	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	18431 11374803	92156	414331	1072321	4456946	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	924 483065	4043	15652	38675	178584	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	9977 5298224	49404	209633	516732	2066725	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	9587 4989907	46843	197711	490747	1991589	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Ave	4351 2703860	20299	96713	248504	1033478	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	19802 10757429	96788	408897	1007107	4222543	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	9242 4868780	44125	193378	471447	1932351	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	173508 206030	183321	183890	178148	188726	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152658 218675	156287	160739	165511	186761	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159405-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	560673 740216	571588	600096	618788	662068	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	227666 290767	236717	250725	246914	262659	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jul-2018 01:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074947-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:17 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:54:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.578	1.608	-0.030	1	2261	1.00	0.9568	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	76	3690	1.00	0.7500	a
3 Chloromethane	50	1.809	1.822	-0.013	96	4148	1.00	1.03	
4 Vinyl chloride	62	1.907	1.913	-0.006	93	3837	1.00	0.9236	
5 Butadiene	54	1.901	1.919	-0.018	58	2736	1.00	0.8282	
6 Bromomethane	94	2.206	2.218	-0.012	82	4060	1.00	1.07	
7 Chloroethane	64	2.273	2.273	0.000	78	1976	1.00	0.8815	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	60	5748	1.00	0.8736	a
9 Dichlorofluoromethane	67	2.449	2.462	-0.013	71	5281	1.00	0.8462	
10 Pentane	72	2.498	2.504	-0.006	95	1055	2.00	2.38	
11 Ethyl ether	59	2.699	2.699	0.000	92	2194	1.00	1.14	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	2017	1.00	0.9790	
14 1,2-Dichloro-1,1,2-trifluo	117	2.730	2.748	-0.018	76	2960	1.00	0.9134	
12 Ethanol	46	2.742	2.754	-0.012	22	296	40.0	25.1	Ma
15 Acrolein	56	2.882	2.882	0.000	97	31536	100.0	103.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	82	3792	1.00	1.19	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	31	3243	1.00	0.9268	a
18 Acetone	43	3.004	3.004	0.000	63	4442	5.00	6.12	
19 Iodomethane	142	3.077	3.083	-0.006	96	8384	1.00	1.09	
22 Isopropyl alcohol	45	3.096	3.108	-0.012	29	1506	10.0	7.64	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	11556	1.00	1.12	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	80	1791	1.00	0.9681	
23 Methyl acetate	43	3.260	3.254	0.006	88	3337	2.00	2.25	a
24 Cyclopentene	67	3.266	3.266	0.000	84	6118	1.00	0.9856	
29 Acetonitrile	41	3.303	3.321	-0.018	20	4764	10.0	12.9	a
26 Methylene Chloride	84	3.376	3.370	0.006	32	4439	1.00	1.24	
* 25 TBA-d9 (IS)	65	3.358	3.376	-0.018	0	287173	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.443	3.437	0.006	91	4904	10.0	11.5	
28 Methyl tert-butyl ether	73	3.516	3.529	-0.012	94	10165	1.00	1.12	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	85	3732	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.638	-0.012	96	8398	10.0	10.1	
32 Hexane	43	3.718	3.717	0.001	86	2208	1.00	1.13	
33 Isopropyl ether	45	3.925	3.925	0.000	84	7862	1.00	1.08	
35 Vinyl acetate	86	3.967	3.974	-0.007	98	1269	2.00	2.28	
34 1,1-Dichloroethane	63	3.961	3.974	-0.013	84	5708	1.00	1.13	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	90	2752	1.00	0.9804	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	88	9542	1.00	1.12	
* 38 2-Butanone-d5	46	4.443	4.449	-0.006	0	177776	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	48	1621	1.00	1.01	a
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	81	4809	1.00	1.18	
42 2-Butanone (MEK)	72	4.498	4.504	-0.006	97	2116	5.00	6.39	
41 Ethyl acetate	70	4.486	4.504	-0.018	84	967	2.00	2.06	
44 Methyl acrylate	55	4.565	4.559	0.006	53	2012	1.00	1.00	
43 Propionitrile	54	4.644	4.644	0.000	96	4224	10.0	11.8	
45 Tetrahydrofuran	72	4.717	4.723	-0.006	53	889	2.00	2.34	a
46 Chlorobromomethane	128	4.736	4.729	0.007	75	2593	1.00	1.13	
47 Methacrylonitrile	67	4.742	4.748	-0.006	87	10612	10.0	10.2	
48 Chloroform	83	4.778	4.778	0.000	97	7036	1.00	1.14	
49 Cyclohexane	84	4.919	4.925	-0.006	87	4081	1.00	0.9025	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	6119	1.00	1.04	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	173508	50.0	51.4	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	96	5307	1.00	1.01	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	93	4664	1.00	1.11	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	27	495	25.0	30.3	Ma
54 Benzene	78	5.284	5.284	0.000	45	13254	1.00	1.11	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	152658	50.0	48.7	
57 Isopropyl acetate	43	5.327	5.321	0.006	79	8021	1.00	1.03	a
58 Tert-amyl methyl ether	87	5.339	5.327	0.012	87	3302	1.00	1.08	a
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	93	5456	1.00	1.24	
60 n-Heptane	57	5.418	5.424	-0.006	84	2404	1.00	1.06	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	490226	50.0	50.0	
62 n-Butanol	56	5.870	5.857	0.013	40	2412	25.0	27.7	a
63 Trichloroethene	95	5.931	5.930	0.000	97	3357	1.00	0.9645	
65 Methylcyclohexane	83	6.052	6.058	-0.006	89	5200	1.00	0.9092	
64 Ethyl acrylate	56	6.059	6.065	-0.006	95	2274	1.00	1.29	a
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	72	2926	1.00	1.10	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	25324	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	81	2815	2.00	1.70	
70 n-Propyl acetate	43	6.327	6.327	0.000	52	3305	1.00	1.09	
69 1,4-Dioxane	88	6.333	6.327	0.006	30	832	20.0	22.1	M
71 Dibromomethane	93	6.351	6.351	0.000	89	2626	1.00	1.16	
72 Dichlorobromomethane	83	6.497	6.504	-0.007	96	4671	1.00	1.07	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	72	1451	1.00	1.02	
74 2-Nitropropane	41	6.839	6.833	0.006	81	1443	2.00	2.59	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	4778	20.0	20.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	5105	1.00	1.12	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	11544	5.00	5.31	
$ 78 Toluene-d8 (Surr)	98	7.247	7.253	-0.006	99	560673	50.0	51.1	
79 Toluene	91	7.327	7.333	-0.006	90	15703	1.00	1.14	
80 trans-1,3-Dichloropropene	75	7.674	7.680	-0.006	94	4645	1.00	1.13	
81 Ethyl methacrylate	69	7.692	7.692	0.000	81	3621	1.00	1.10	
82 1,1,2-Trichloroethane	83	7.906	7.894	0.012	90	2211	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.948	7.954	-0.006	94	5067	1.00	1.11	
84 1,3-Dichloropropane	76	8.107	8.113	-0.006	91	4509	1.00	1.16	
85 2-Hexanone	43	8.156	8.156	0.000	95	7485	5.00	5.38	
86 n-Butyl acetate	43	8.265	8.265	0.000	95	3672	1.00	1.16	
87 Chlorodibromomethane	129	8.351	8.345	0.006	95	3310	1.00	0.9861	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	3165	1.00	1.06	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	82	413487	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	94	10552	1.00	1.08	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	5682	1.00	1.08	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	4401	1.00	1.09	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	7101	1.00	1.10	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	2011	1.00	1.03	
95 o-Xylene	106	9.802	9.802	0.000	93	7449	1.00	1.10	
96 Styrene	104	9.832	9.832	0.000	95	10003	1.00	0.9619	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	3790	1.00	0.9746	
98 Bromoform	173	10.070	10.070	0.000	92	2481	1.00	1.09	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	17824	1.00	1.01	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	227666	50.0	51.3	
101 Bromobenzene	156	10.545	10.545	0.000	82	5724	1.00	1.07	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	95	4150	1.00	1.09	
103 N-Propylbenzene	91	10.613	10.612	0.001	99	19452	1.00	0.9830	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	93	1143	1.00	0.9559	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.649	0.012	63	1042	1.00	1.18	
106 2-Chlorotoluene	91	10.728	10.728	0.000	93	14273	1.00	1.04	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	18573	1.00	1.03	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	96	15055	1.00	0.9549	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	94	11370	1.00	0.9876	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	4209	1.00	0.9440	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	12651	1.00	0.9438	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	16072	1.00	0.9761	
113 sec-Butylbenzene	105	11.289	11.295	-0.006	99	19633	1.00	0.9721	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	18764	1.00	0.99	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	11150	1.00	1.10	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	274690	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.521	11.527	-0.006	94	11661	1.00	1.13	
118 Benzyl chloride	91	11.655	11.655	0.000	99	7998	1.00	1.00	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	17858	1.00	1.01	
120 p-Diethylbenzene	119	11.759	11.759	0.000	95	10840	1.00	0.99	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	8371	1.00	0.9519	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	10970	1.00	1.07	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	18431	1.00	0.9757	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	82	924	1.00	1.18	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	96	9977	1.00	1.06	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	9587	1.00	1.07	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	4351	1.00	0.99	
128 Naphthalene	128	13.319	13.319	0.000	99	19802	1.00	1.06	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	9242	1.00	1.07	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.26	
S 131 Xylenes, Total	100				0		2.00	2.19	
S 132 Total BTEX	1				0		5.00	5.52	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	1.00	Units: uL	
ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	1.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

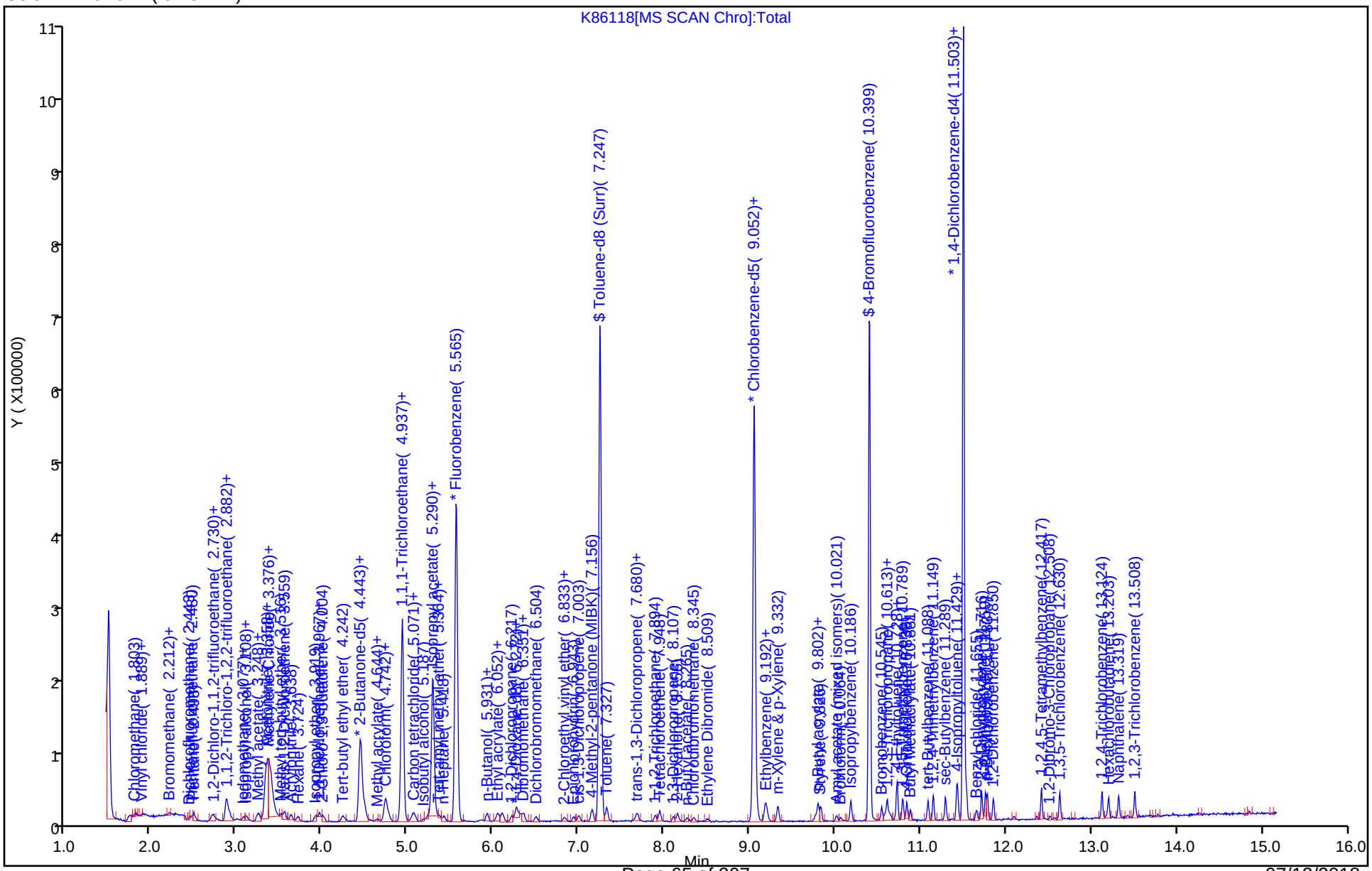
Report Date: 06-Jul-2018 18:58:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D

Injection Date:	06-Jul-2018 01:46:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

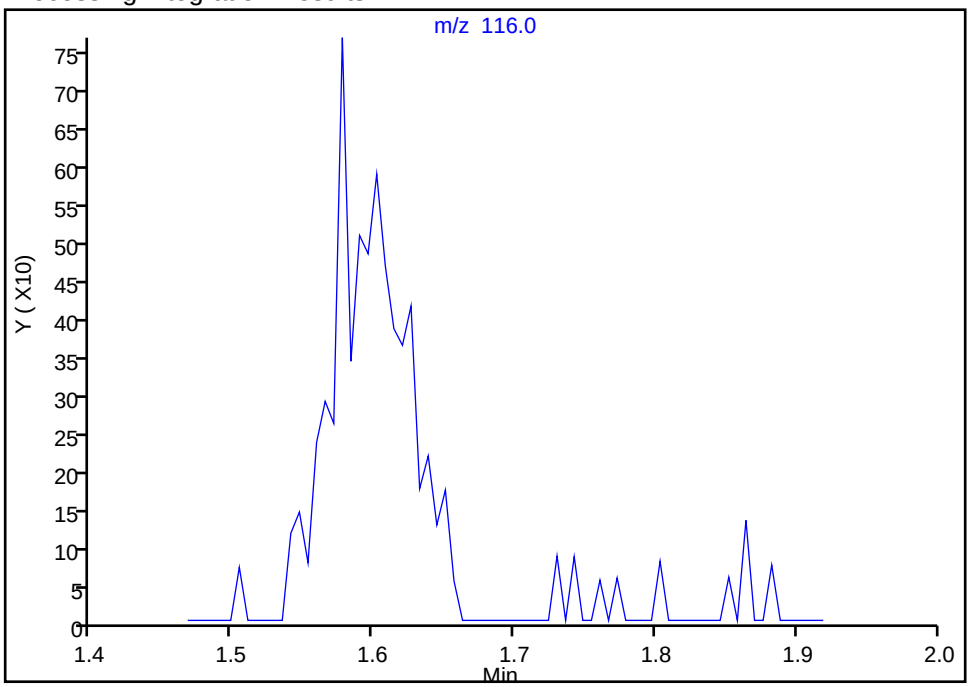
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

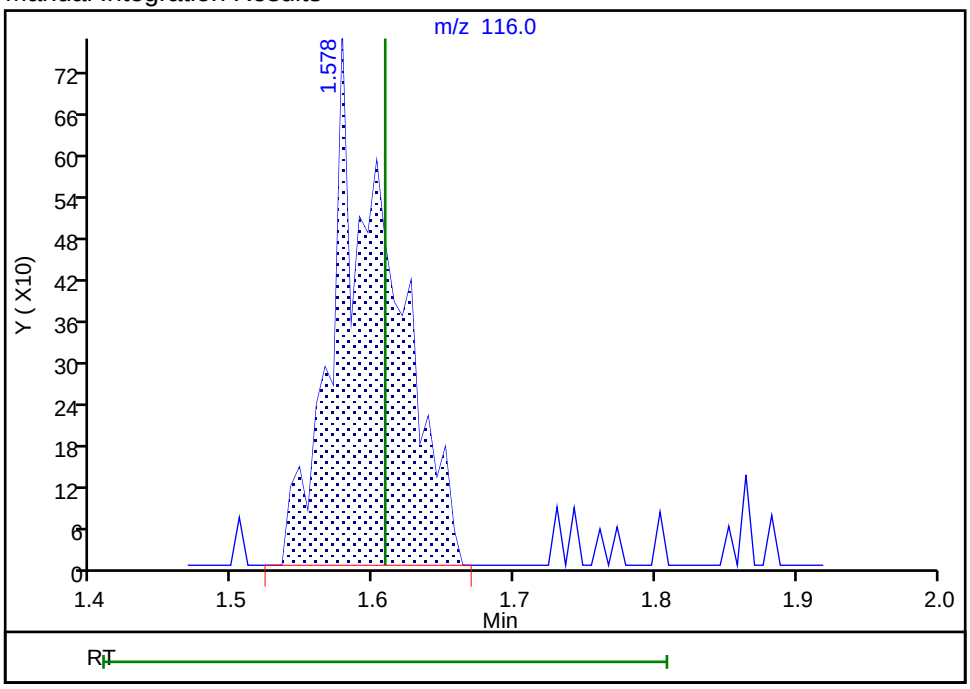
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 2261
Amount: 0.956799
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

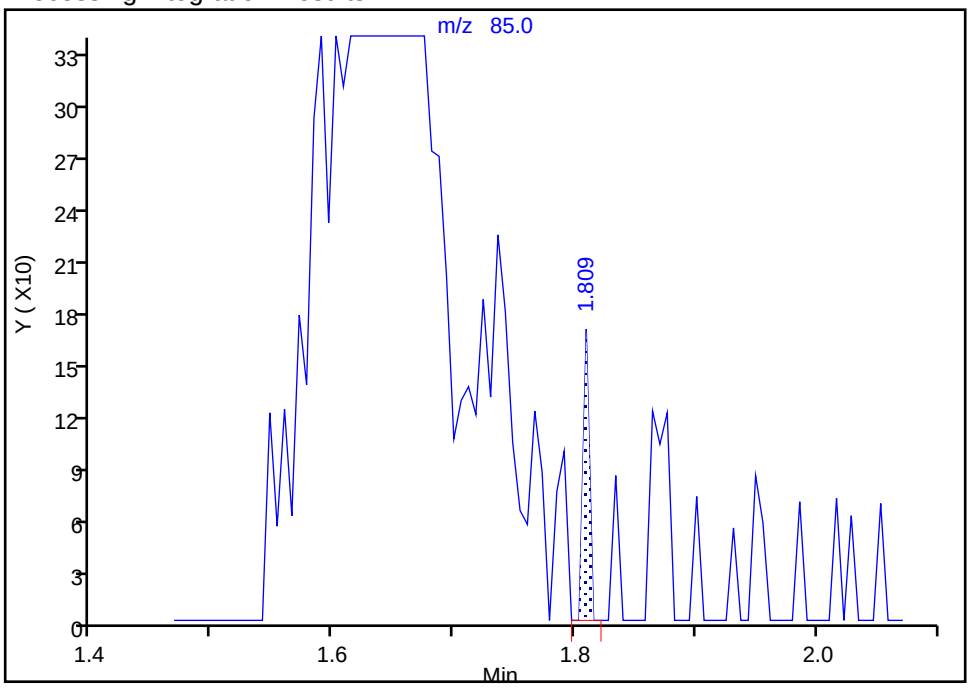
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

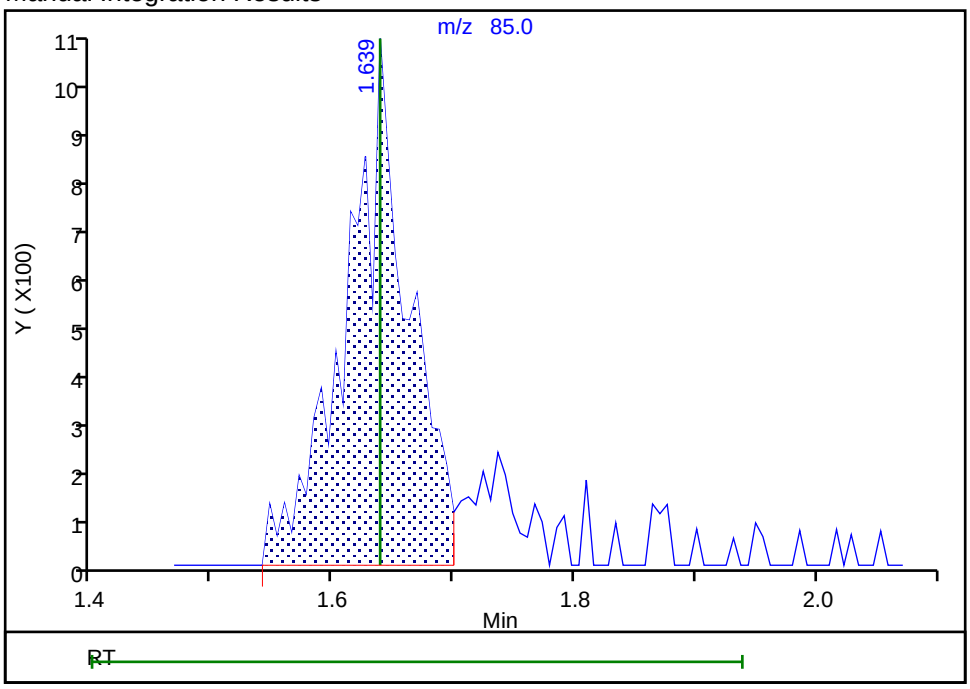
Processing Integration Results

RT: 1.81
Area: 61
Amount: 0.011841
Amount Units: ug/l



Manual Integration Results

RT: 1.64
Area: 3690
Amount: 0.750037
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

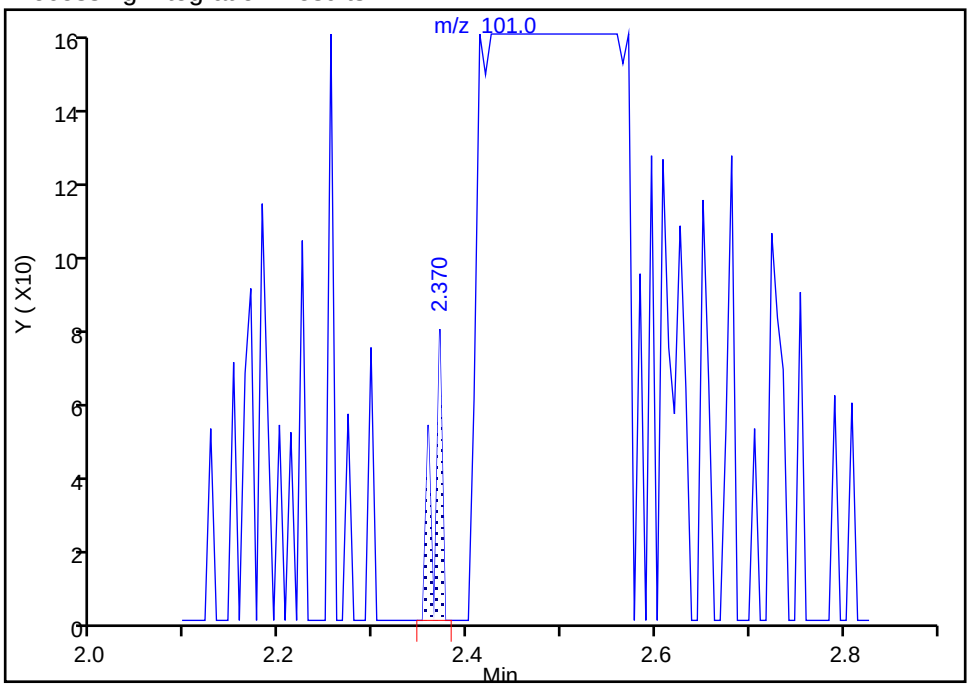
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

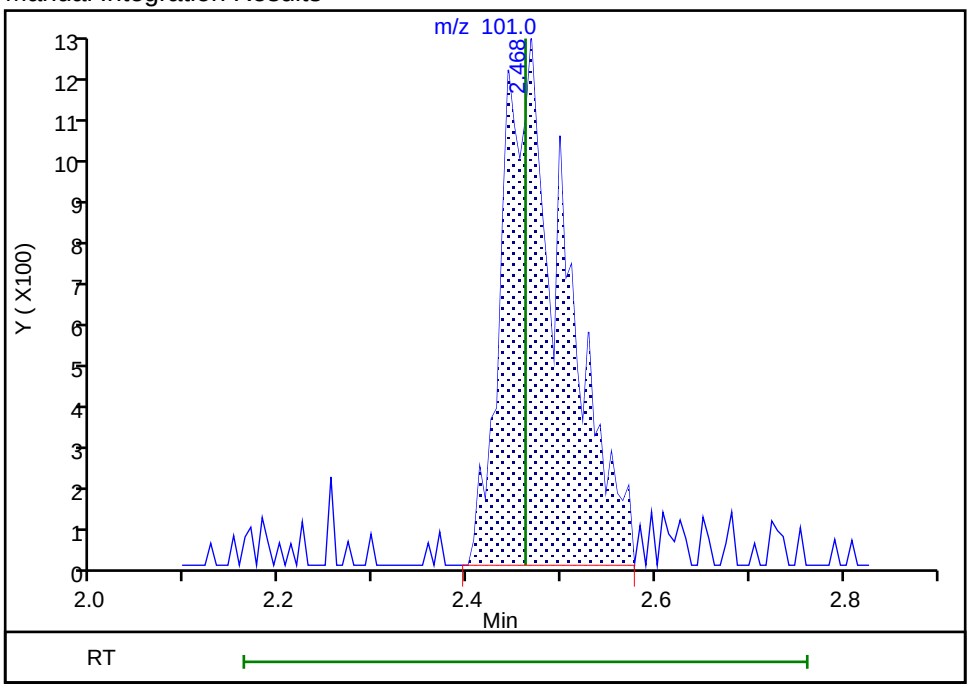
RT: 2.37
Area: 48
Amount: 0.007026
Amount Units: ug/l

Processing Integration Results



RT: 2.47
Area: 5748
Amount: 0.873615
Amount Units: ug/l

Manual Integration Results



Reviewer: tupayachia, 06-Jul-2018 03:49:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

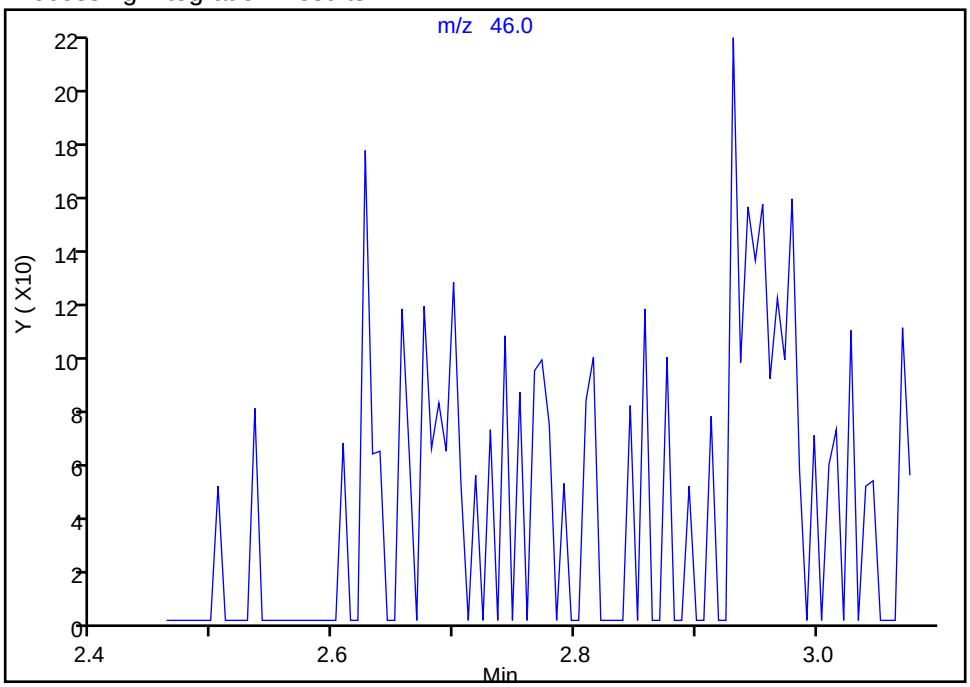
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

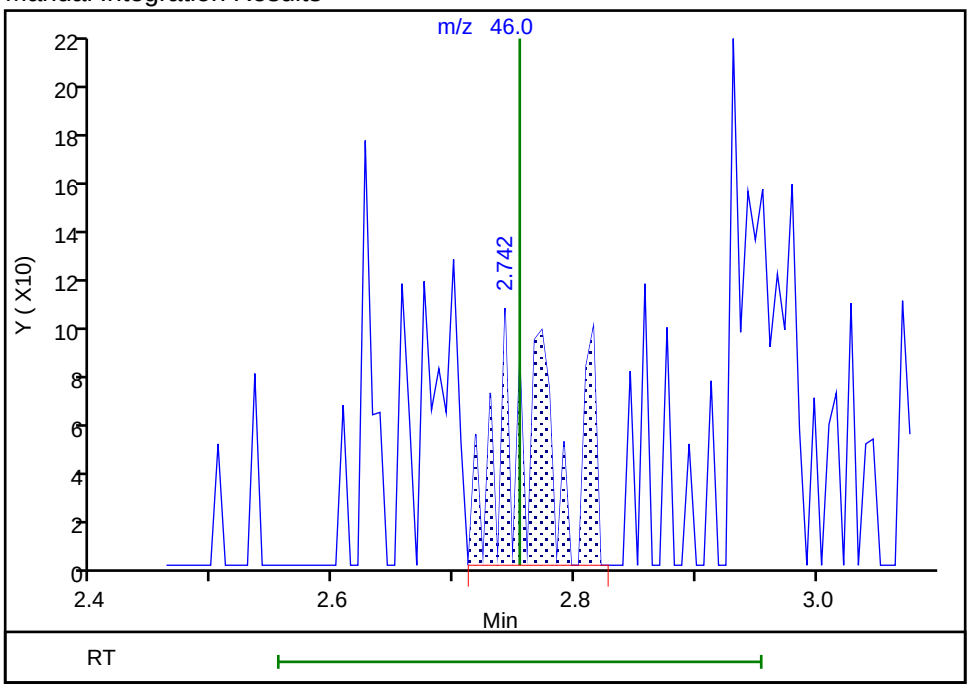
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 296
Amount: 25.125826
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

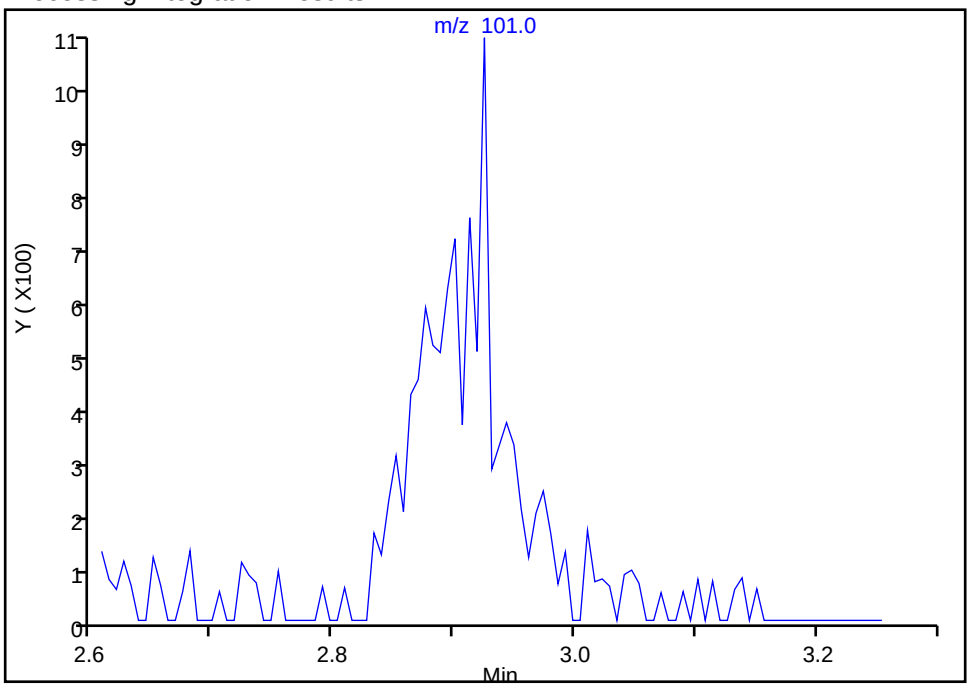
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

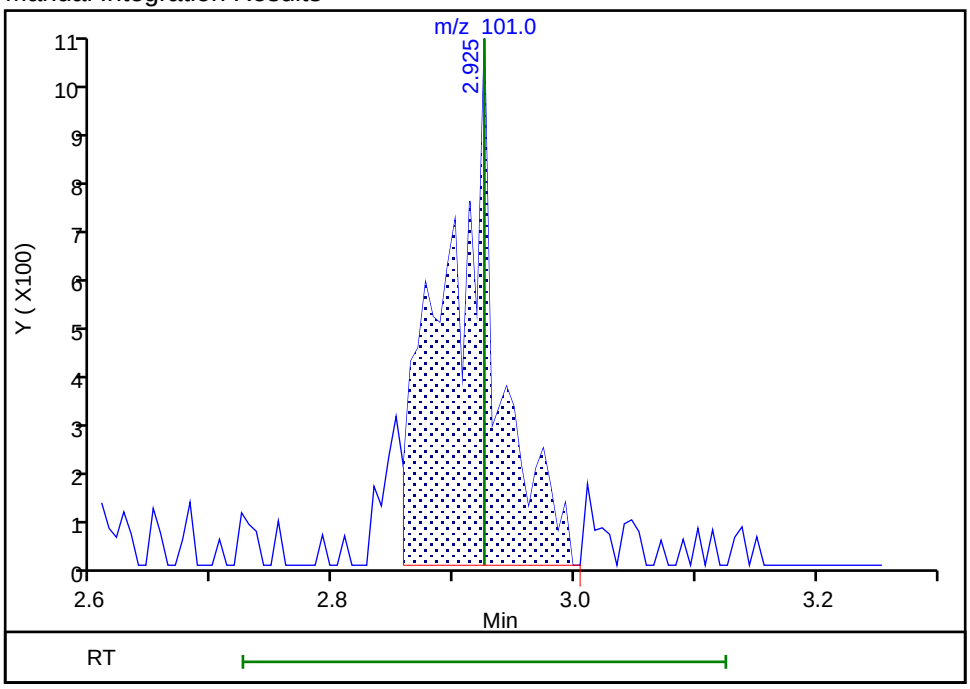
Not Detected
Expected RT: 2.92

Processing Integration Results



Manual Integration Results

RT: 2.93
Area: 3243
Amount: 0.926791
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:37
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

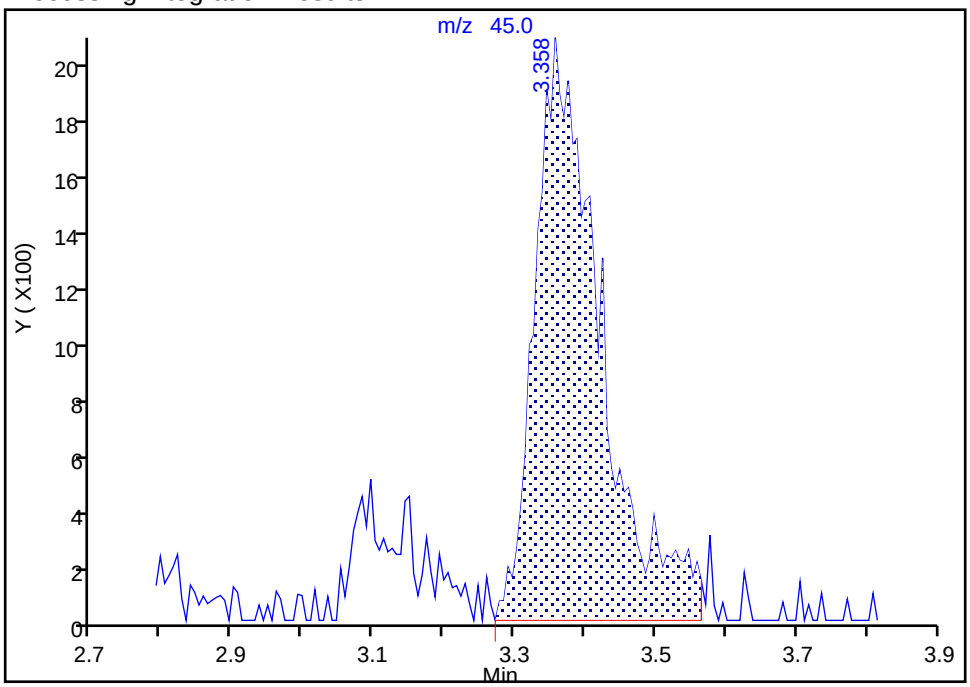
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

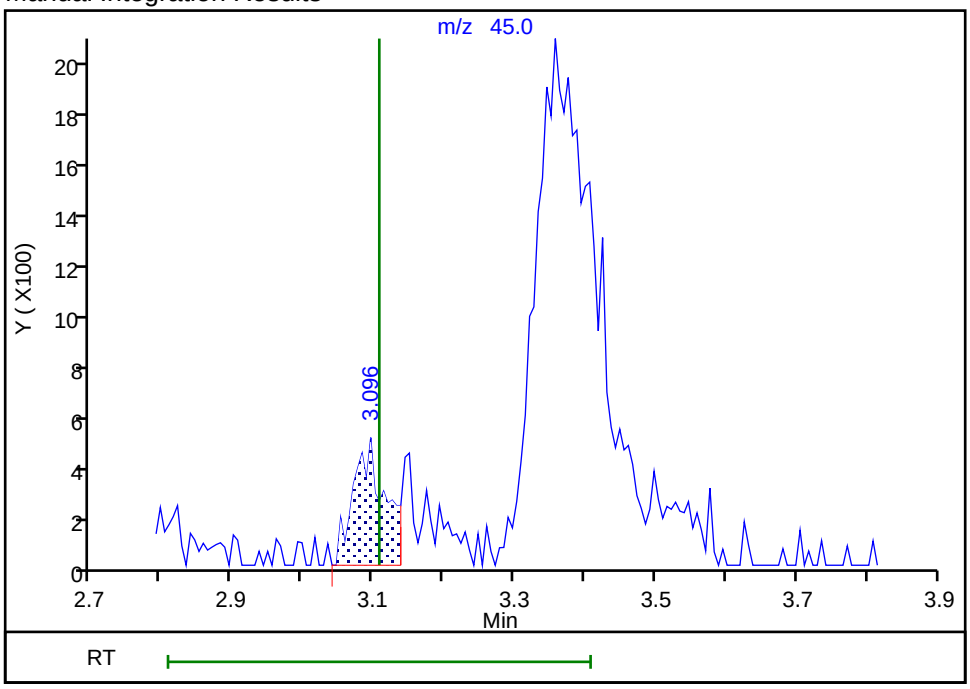
Processing Integration Results

RT: 3.36
Area: 12911
Amount: 33.520001
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 1506
Amount: 7.643810
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:58
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

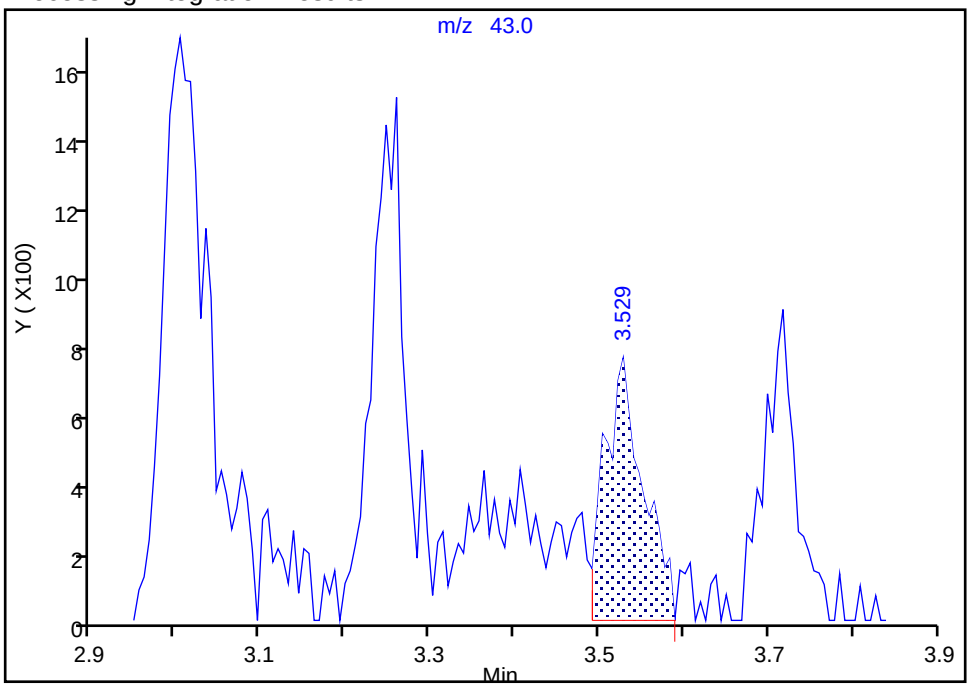
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Methyl acetate, CAS: 79-20-9

Signal: 1

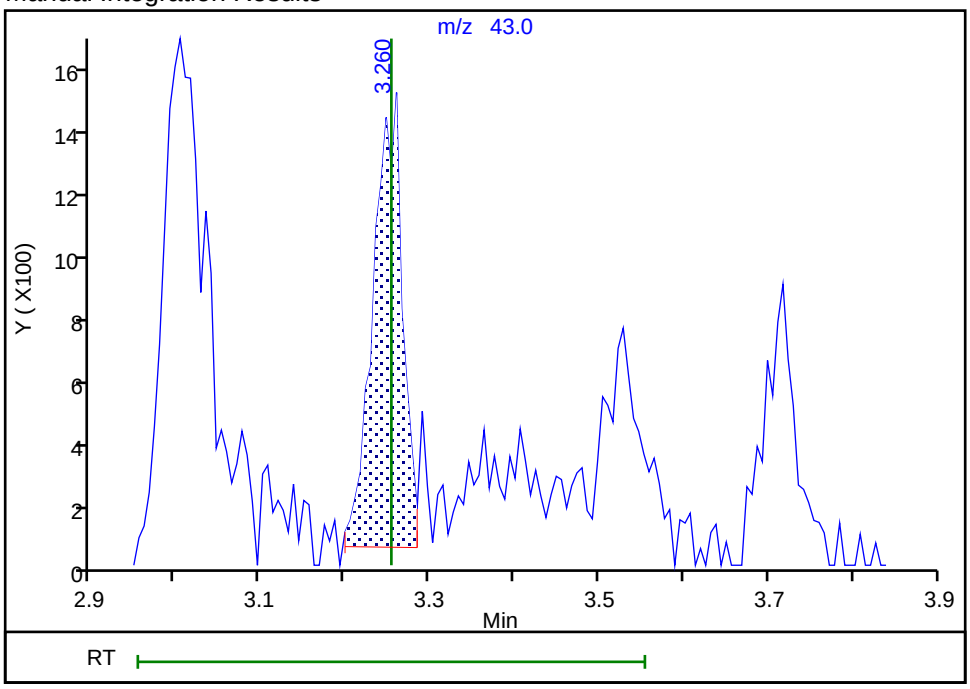
Processing Integration Results

RT: 3.53
Area: 2284
Amount: 1.712889
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 3337
Amount: 2.248775
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:25
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

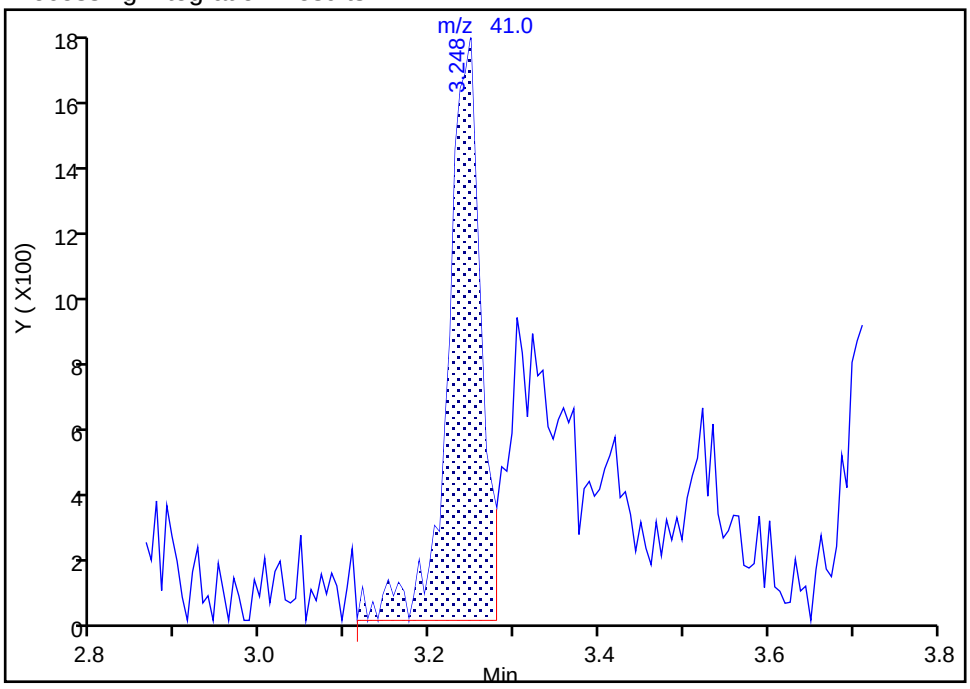
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

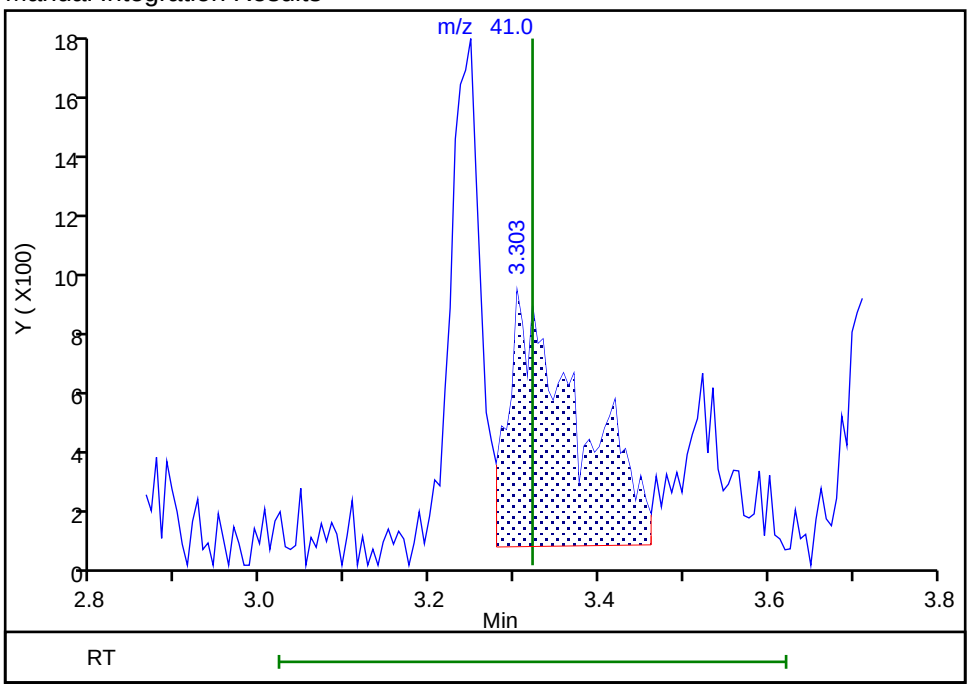
Processing Integration Results

RT: 3.25
Area: 4613
Amount: 12.146097
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 4764
Amount: 12.864889
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:34
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

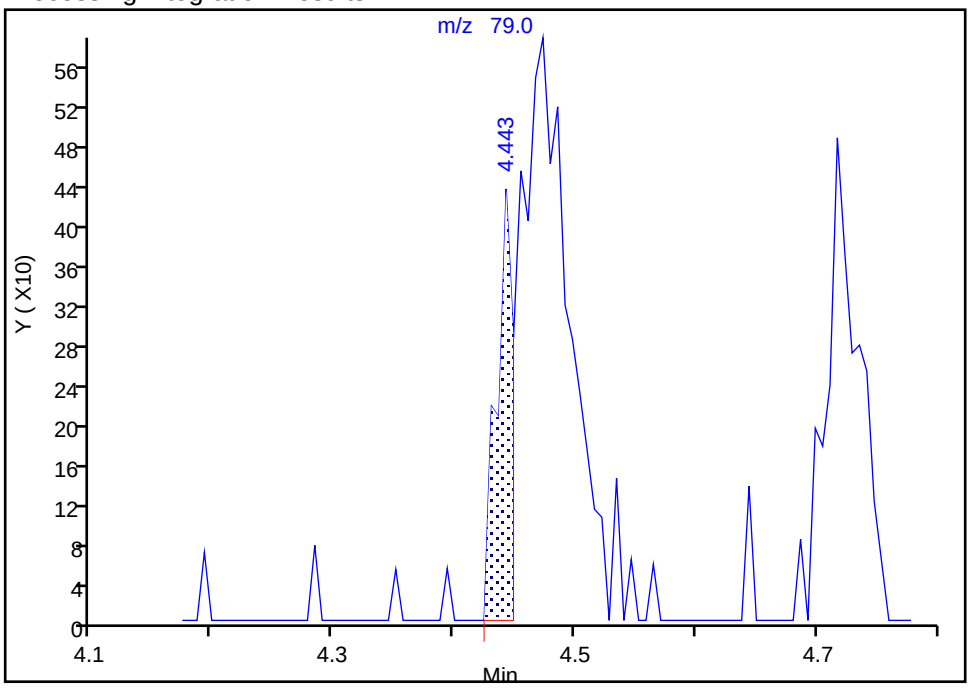
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

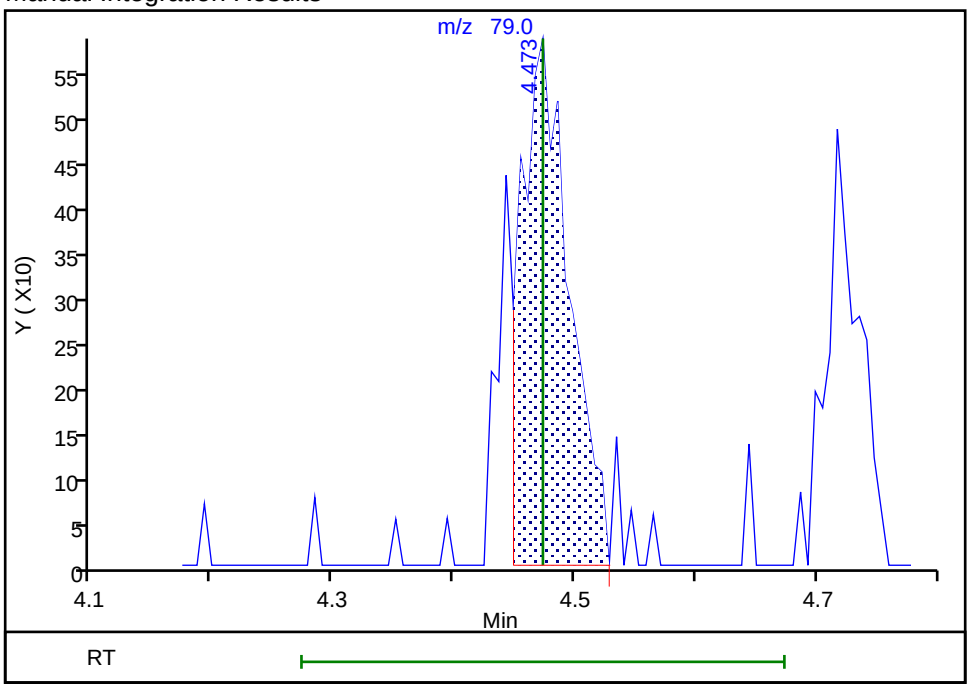
Processing Integration Results

RT: 4.44
Area: 413
Amount: 0.246925
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 1621
Amount: 1.005089
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:10
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

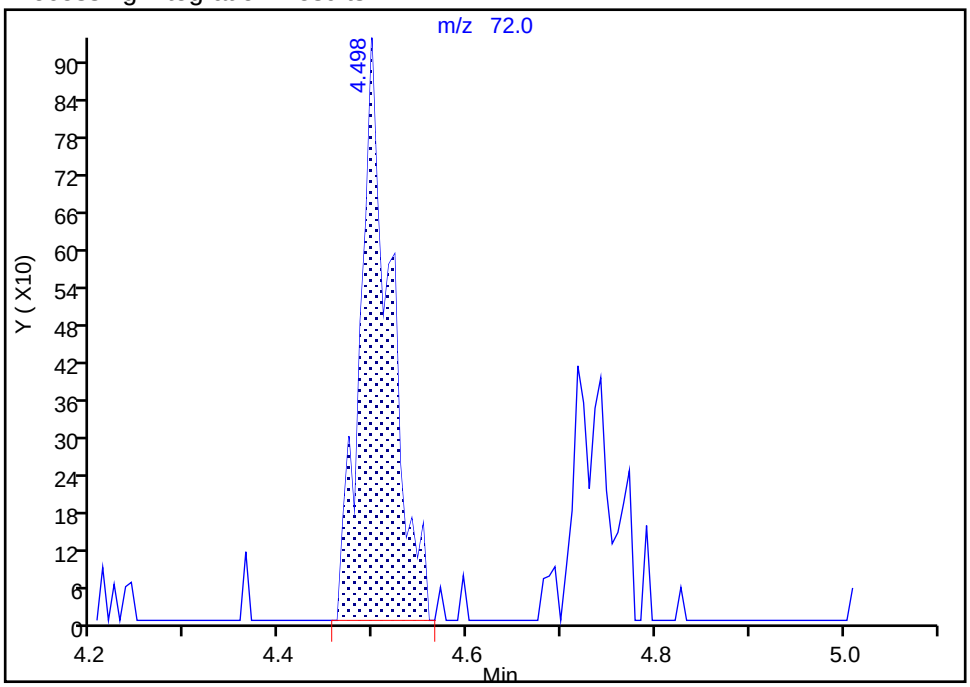
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

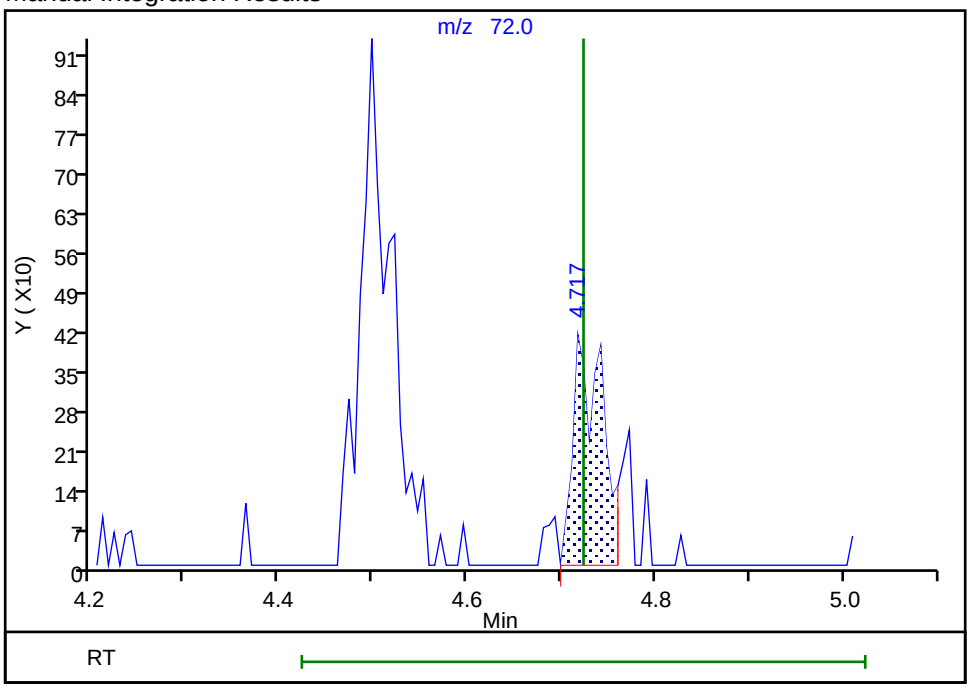
Processing Integration Results

RT: 4.50
Area: 2116
Amount: 5.826841
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 889
Amount: 2.341696
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

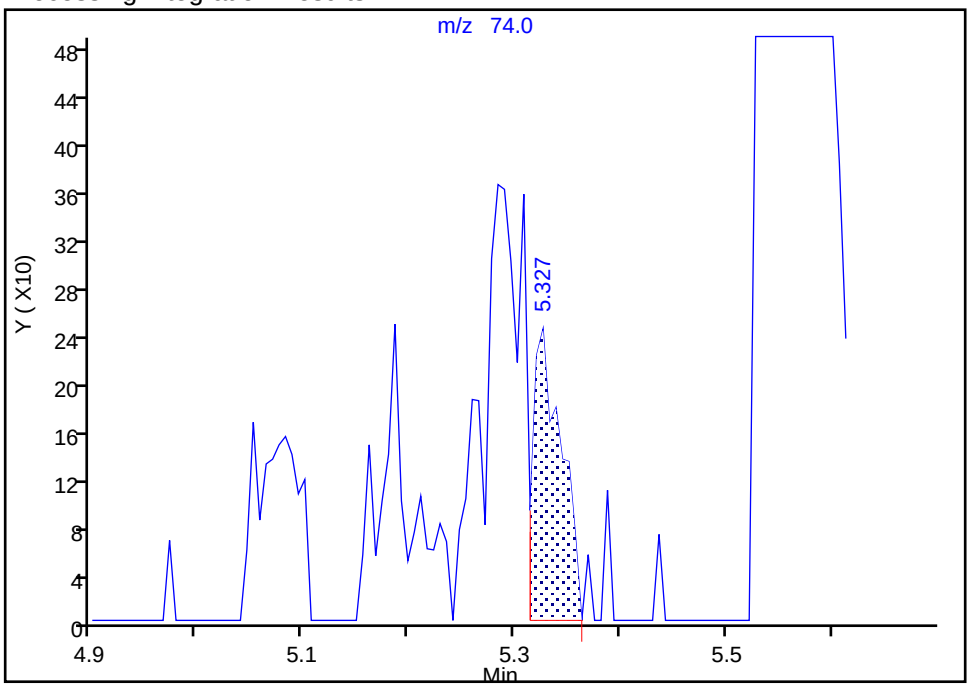
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

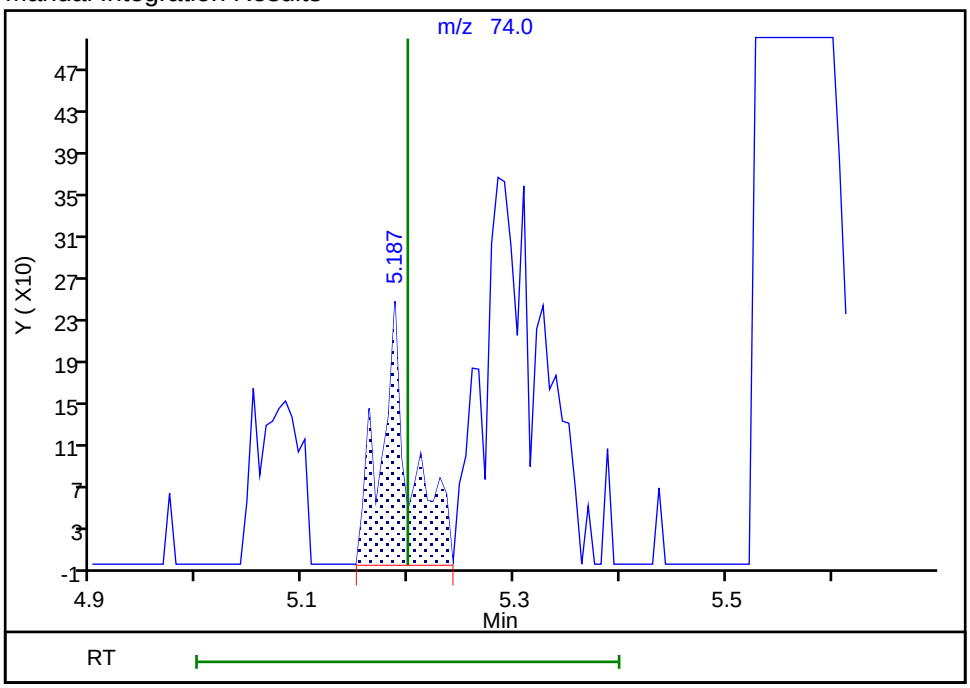
Processing Integration Results

RT: 5.33
Area: 454
Amount: 29.165044
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 495
Amount: 30.295295
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:47:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

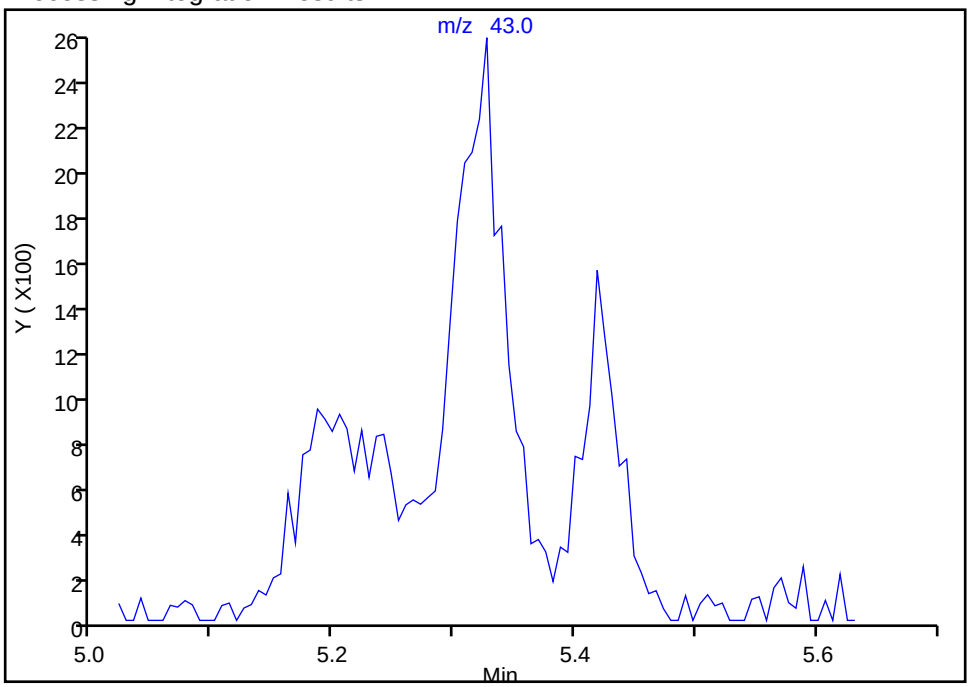
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

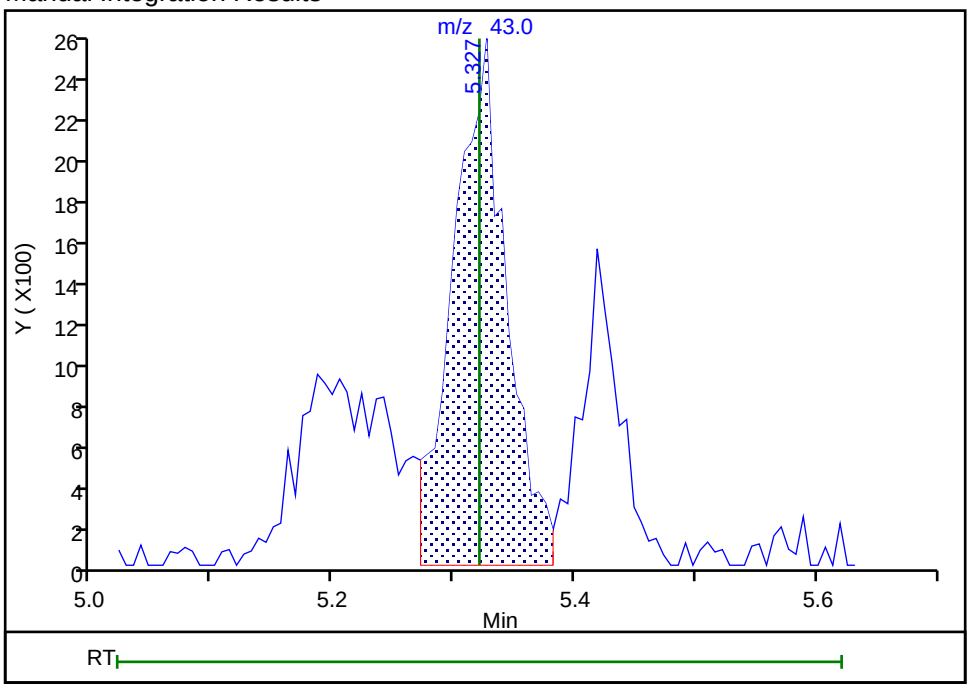
Not Detected
Expected RT: 5.32

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 8021
Amount: 1.026903
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:06
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

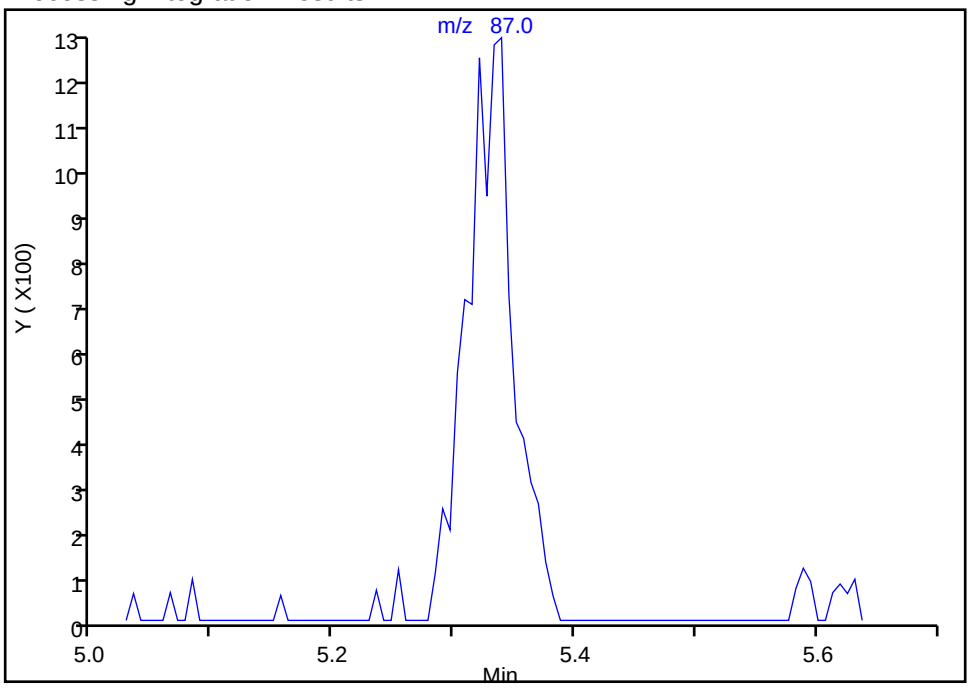
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

58 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

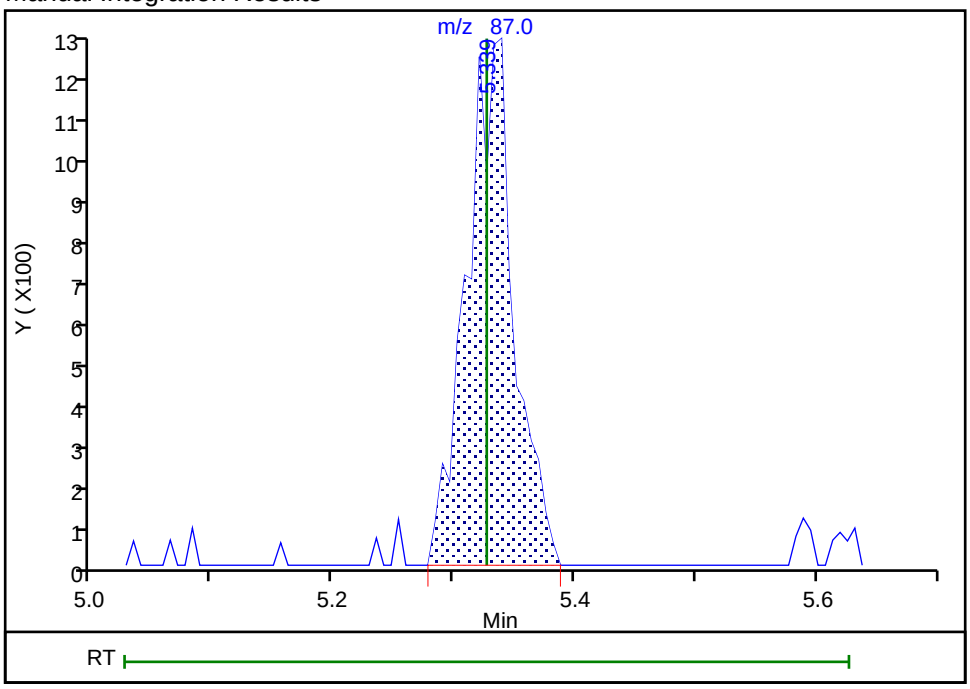
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.34
Area: 3302
Amount: 1.078015
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:11
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

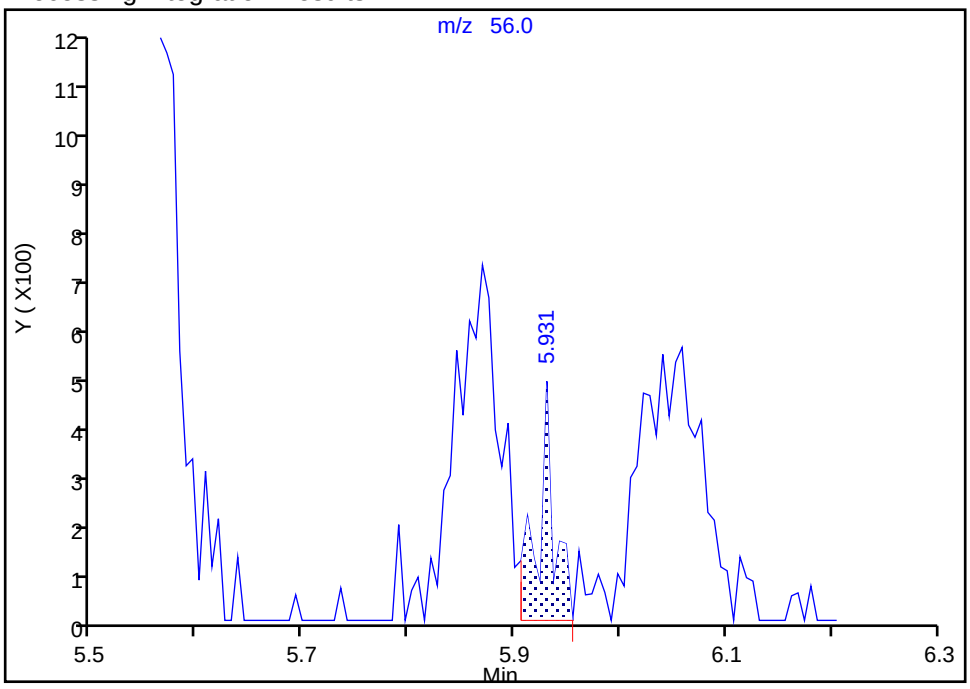
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

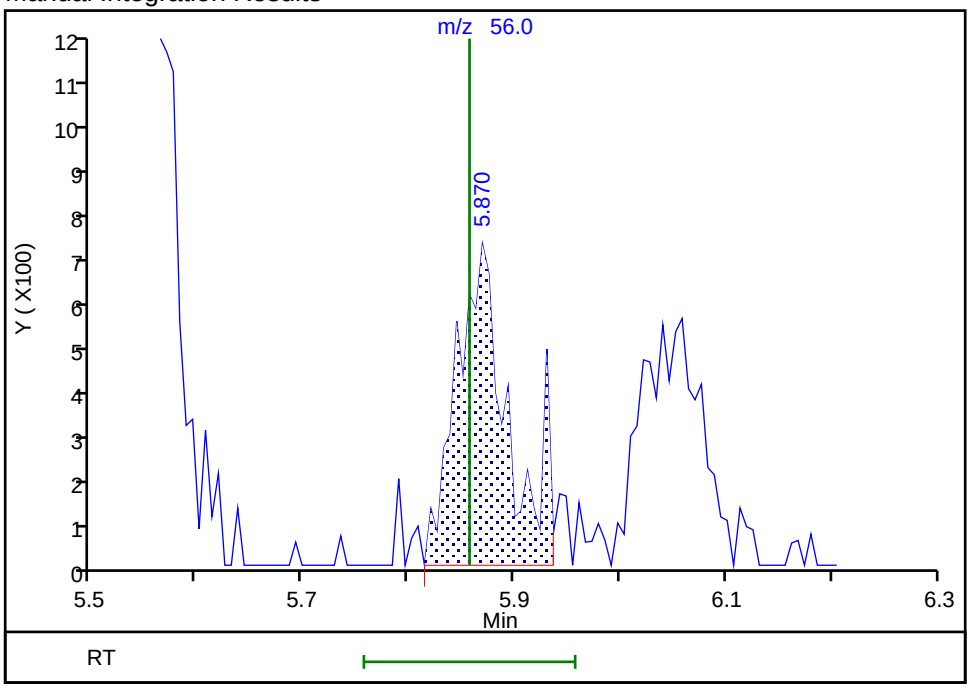
Processing Integration Results

RT: 5.93
Area: 516
Amount: 6.522027
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 2412
Amount: 27.741964
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:20
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

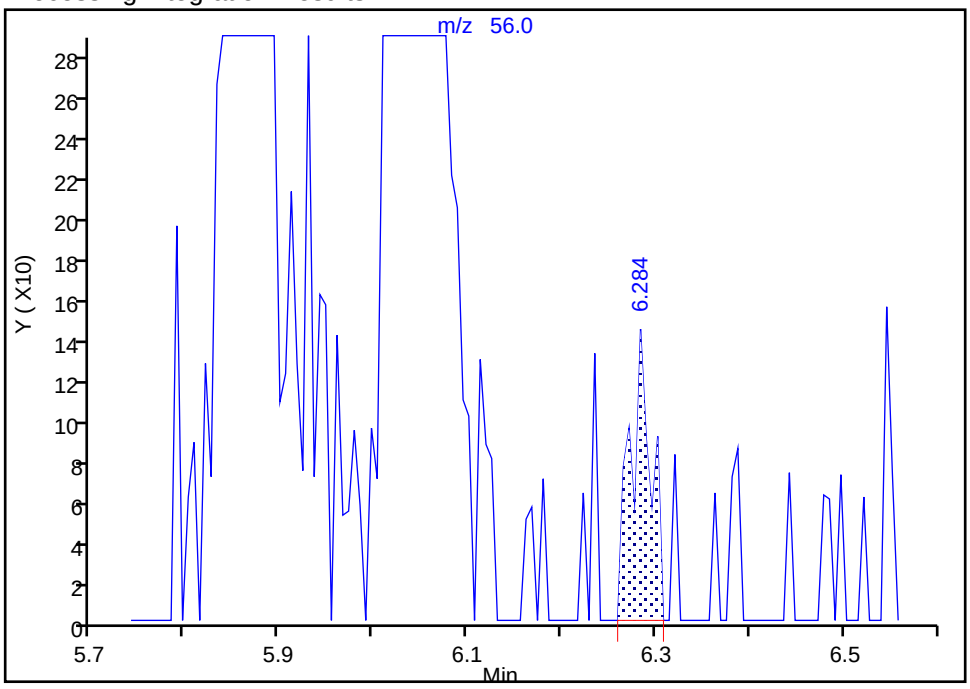
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

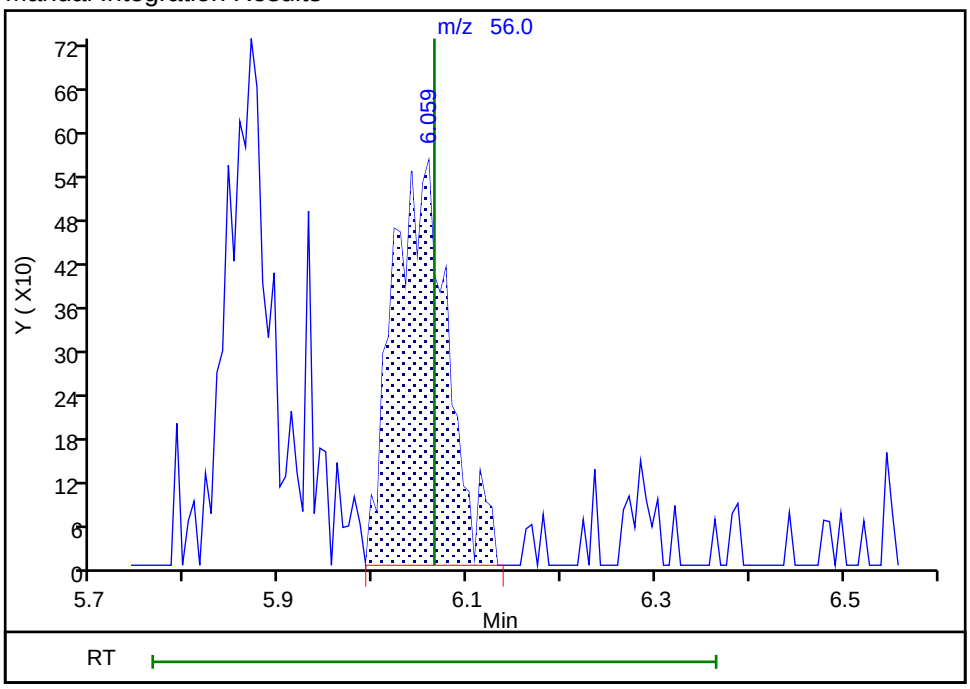
Processing Integration Results

RT: 6.28
Area: 220
Amount: 0.122740
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 2274
Amount: 1.288268
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

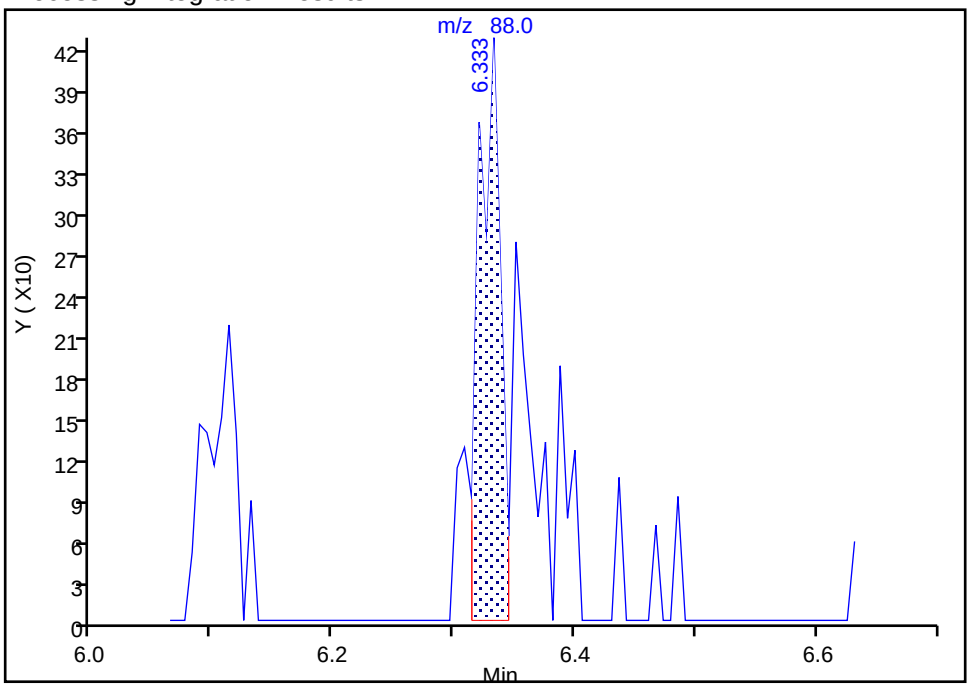
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

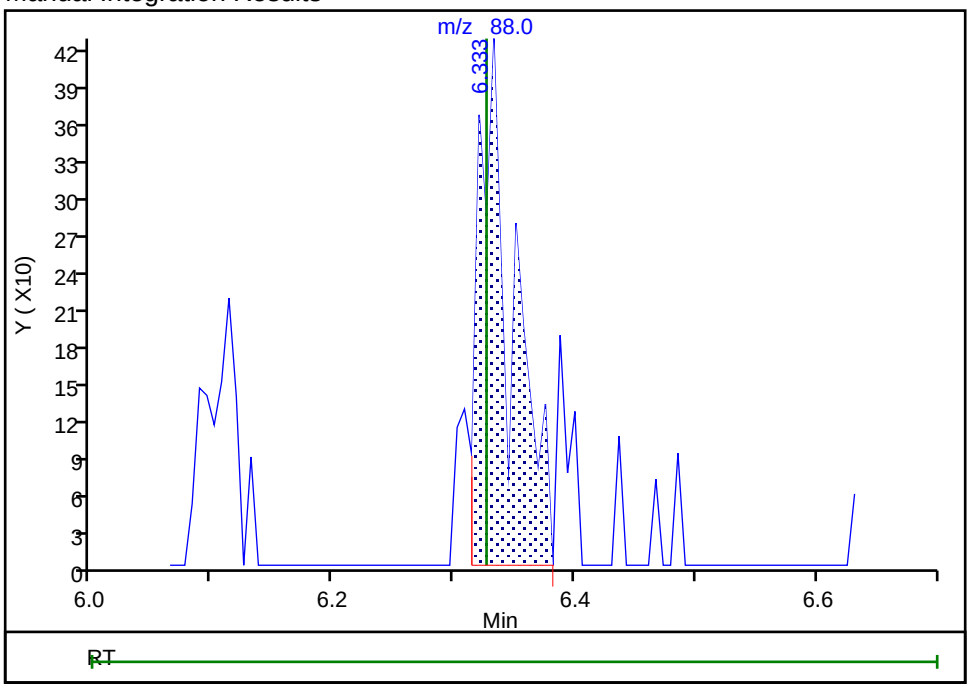
Processing Integration Results

RT: 6.33
Area: 534
Amount: 15.547954
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 832
Amount: 22.053400
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:44:34
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jul-2018 02:10:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074947-004
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:32 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:48:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	73	10049	5.00	4.08	
2 Dichlorodifluoromethane	85	1.638	1.639	-0.001	98	23410	5.00	4.57	
3 Chloromethane	50	1.815	1.822	-0.007	99	19558	5.00	4.64	
4 Vinyl chloride	62	1.907	1.913	-0.006	97	19396	5.00	4.48	a
5 Butadiene	54	1.901	1.919	-0.018	72	16478	5.00	4.79	
6 Bromomethane	94	2.211	2.218	-0.007	98	18827	5.00	4.76	
7 Chloroethane	64	2.266	2.273	-0.007	97	11373	5.00	4.87	
9 Dichlorofluoromethane	67	2.474	2.462	0.012	96	32091	5.00	4.93	
8 Trichlorofluoromethane	101	2.461	2.462	-0.001	87	32312	5.00	4.71	
10 Pentane	72	2.492	2.504	-0.012	94	4094	10.0	8.21	
11 Ethyl ether	59	2.693	2.699	-0.006	91	10146	5.00	5.08	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	9964	5.00	4.64	
14 1,2-Dichloro-1,1,2-trifluo	117	2.760	2.748	0.012	77	15471	5.00	4.58	
12 Ethanol	46	2.711	2.754	-0.043	58	2517	200.0	190.2	
15 Acrolein	56	2.882	2.882	0.000	97	67018	200.0	195.6	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	92	15305	5.00	4.61	
16 1,1,2-Trichloro-1,2,2-trif	101	2.900	2.925	-0.025	59	17230	5.00	4.72	
18 Acetone	43	3.004	3.004	0.000	84	21583	25.0	27.2	
19 Iodomethane	142	3.077	3.083	-0.006	99	37031	5.00	4.63	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	11986	50.0	54.2	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	47954	5.00	4.46	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	78	9229	5.00	4.79	
23 Methyl acetate	43	3.248	3.254	-0.006	88	15964	10.0	9.58	
24 Cyclopentene	67	3.266	3.266	0.000	90	28347	5.00	4.38	
29 Acetonitrile	41	3.321	3.321	0.000	42	20495	50.0	49.3	a
26 Methylene Chloride	84	3.376	3.370	0.006	60	18594	5.00	4.98	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	322534	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	95	25375	50.0	53.0	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	94	46271	5.00	4.88	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	86	17585	5.00	4.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	96	44073	50.0	50.7	
32 Hexane	43	3.711	3.717	-0.006	92	8126	5.00	4.00	
33 Isopropyl ether	45	3.925	3.925	0.000	93	35852	5.00	4.74	
34 1,1-Dichloroethane	63	3.973	3.974	-0.001	78	24741	5.00	4.69	
35 Vinyl acetate	86	3.973	3.974	-0.001	98	5877	10.0	9.40	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	90	14158	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	92	42410	5.00	4.78	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	194530	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	8382	5.00	4.99	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	90	20626	5.00	4.85	
41 Ethyl acetate	70	4.504	4.504	0.000	81	2757	10.0	8.19	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	98	9286	25.0	25.6	
44 Methyl acrylate	55	4.559	4.559	0.000	97	10523	5.00	5.04	a
43 Propionitrile	54	4.644	4.644	0.000	97	18185	50.0	45.4	
45 Tetrahydrofuran	72	4.723	4.723	0.000	51	4303	10.0	10.4	
46 Chlorobromomethane	128	4.729	4.729	0.000	71	12006	5.00	5.02	
47 Methacrylonitrile	67	4.741	4.748	-0.007	89	53044	50.0	48.7	
48 Chloroform	83	4.778	4.778	0.000	99	30715	5.00	4.78	
49 Cyclohexane	84	4.918	4.925	-0.007	83	20650	5.00	4.38	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183321	50.0	52.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	29332	5.00	4.77	
52 Carbon tetrachloride	117	5.052	5.059	-0.007	89	24796	5.00	4.54	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	93	19172	5.00	4.39	
56 Isobutyl alcohol	74	5.199	5.199	0.000	95	1798	125.0	98.0	a
54 Benzene	78	5.278	5.284	-0.006	96	59717	5.00	4.77	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	156287	50.0	47.8	
57 Isopropyl acetate	43	5.327	5.321	0.006	61	37612	5.00	4.62	a
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	91	15219	5.00	4.77	
59 1,2-Dichloroethane	62	5.369	5.376	-0.007	96	22423	5.00	4.90	
60 n-Heptane	57	5.424	5.424	0.000	82	9667	5.00	4.08	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	510903	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	9707	125.0	99.4	
63 Trichloroethene	95	5.930	5.930	0.000	91	17099	5.00	4.71	
65 Methylcyclohexane	83	6.064	6.058	0.006	92	26889	5.00	4.51	
64 Ethyl acrylate	56	6.046	6.065	-0.019	97	8095	5.00	4.40	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	86	13133	5.00	4.73	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	28861	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	16744	10.0	9.69	
69 1,4-Dioxane	88	6.333	6.327	0.006	37	4033	100.0	93.8	M
70 n-Propyl acetate	43	6.327	6.327	-0.001	96	14785	5.00	4.66	
71 Dibromomethane	93	6.357	6.351	0.006	88	11618	5.00	4.93	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	21083	5.00	4.63	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.005	78	6869	5.00	4.63	
74 2-Nitropropane	41	6.833	6.833	-0.001	84	4711	10.0	8.10	
75 Epichlorohydrin	57	6.942	6.942	0.000	100	23871	100.0	93.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	89	21627	5.00	4.52	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	56254	25.0	23.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	571588	50.0	49.4	
79 Toluene	91	7.326	7.333	-0.007	92	68282	5.00	4.69	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	19676	5.00	4.53	
81 Ethyl methacrylate	69	7.692	7.692	0.000	85	16415	5.00	4.74	
82 1,1,2-Trichloroethane	83	7.893	7.894	-0.001	93	10661	5.00	4.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	95	21904	5.00	4.57	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	19466	5.00	4.73	
85 2-Hexanone	43	8.155	8.156	-0.001	93	35883	25.0	23.6	
86 n-Butyl acetate	43	8.265	8.265	0.000	97	16499	5.00	4.96	
87 Chlorodibromomethane	129	8.344	8.345	-0.001	96	16637	5.00	4.70	
88 Ethylene Dibromide	107	8.509	8.509	0.000	96	15316	5.00	4.87	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	435609	50.0	50.0	
90 Chlorobenzene	112	9.088	9.094	-0.006	98	48838	5.00	4.76	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	26141	5.00	4.71	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	20011	5.00	4.70	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	32110	5.00	4.71	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	10132	5.00	4.91	
95 o-Xylene	106	9.801	9.802	-0.001	94	34320	5.00	4.79	
96 Styrene	104	9.832	9.832	0.000	96	52373	5.00	4.78	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	19888	5.00	4.88	
98 Bromoform	173	10.070	10.070	0.000	97	11095	5.00	4.64	
99 Isopropylbenzene	105	10.186	10.186	0.000	94	86076	5.00	4.63	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	236717	50.0	50.6	
101 Bromobenzene	156	10.545	10.545	0.000	80	26635	5.00	4.74	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	95	18228	5.00	4.56	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	96790	5.00	4.66	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	94	6561	5.00	5.23	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	71	4112	5.00	4.42	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	88524	5.00	4.69	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	66796	5.00	4.62	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	95	74216	5.00	4.49	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	95	55500	5.00	4.60	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	21560	5.00	4.61	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	60051	5.00	4.27	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	80171	5.00	4.64	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	92066	5.00	4.35	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	87428	5.00	4.42	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	50640	5.00	4.75	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	92	288105	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	52879	5.00	4.90	
118 Benzyl chloride	91	11.655	11.655	0.000	99	41138	5.00	4.89	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	92	88467	5.00	4.79	
120 p-Diethylbenzene	119	11.758	11.759	-0.001	95	54541	5.00	4.76	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	42111	5.00	4.57	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	51461	5.00	4.76	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	92156	5.00	4.65	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	89	4043	5.00	4.91	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	95	49404	5.00	5.00	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	46843	5.00	4.99	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	20299	5.00	4.42	
128 Naphthalene	128	13.319	13.319	0.000	99	96788	5.00	4.94	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	44125	5.00	4.87	
S 130 1,2-Dichloroethene, Total	100				0		10.0	9.75	
S 131 Xylenes, Total	100				0		10.0	9.50	
S 132 Total BTEX	1				0		25.0	23.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	0.50	Units: uL	
ACROLEIN W_00078	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	0.50	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

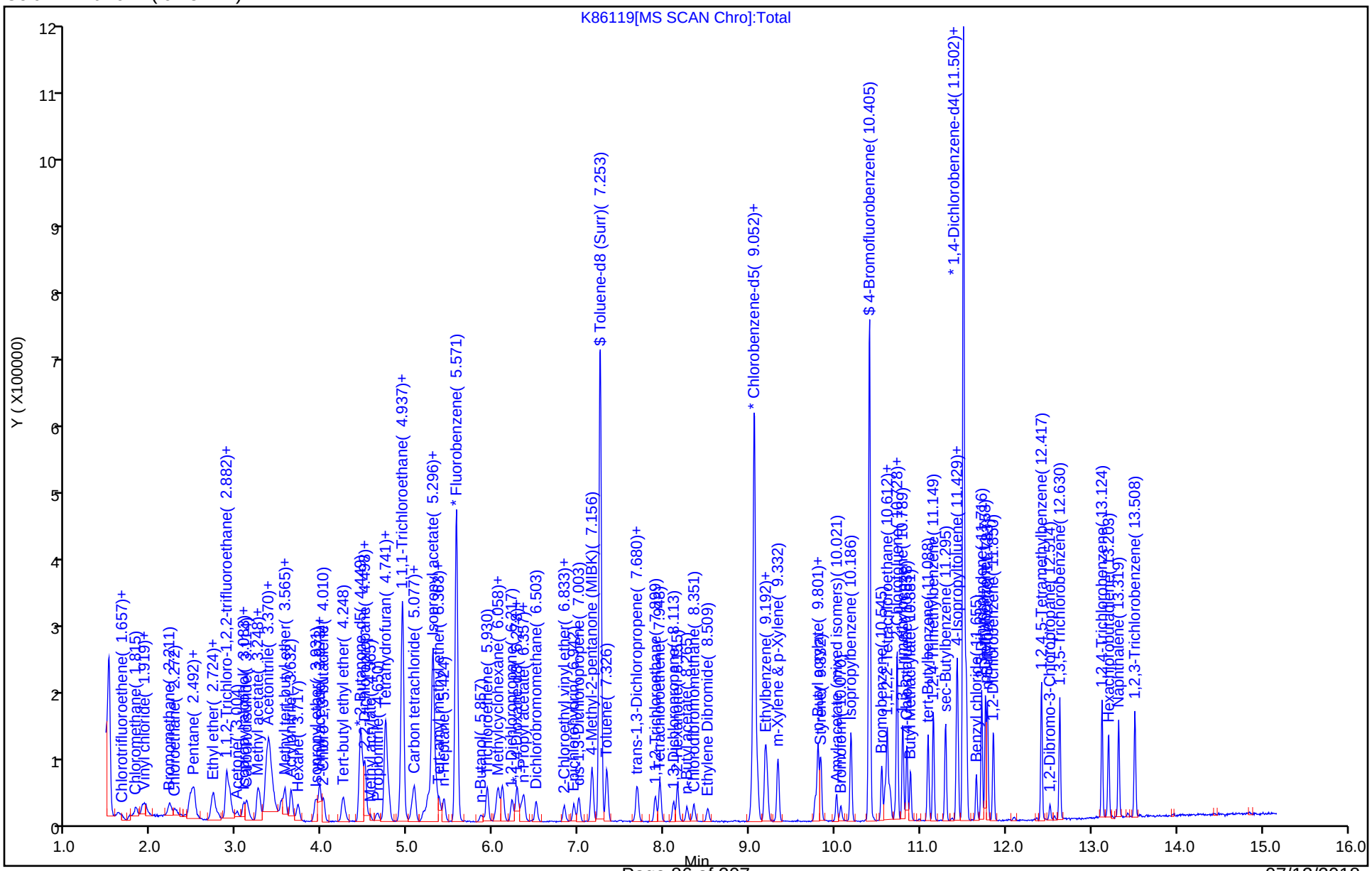
Report Date: 06-Jul-2018 18:58:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D

Injection Date:	06-Jul-2018 02:10:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

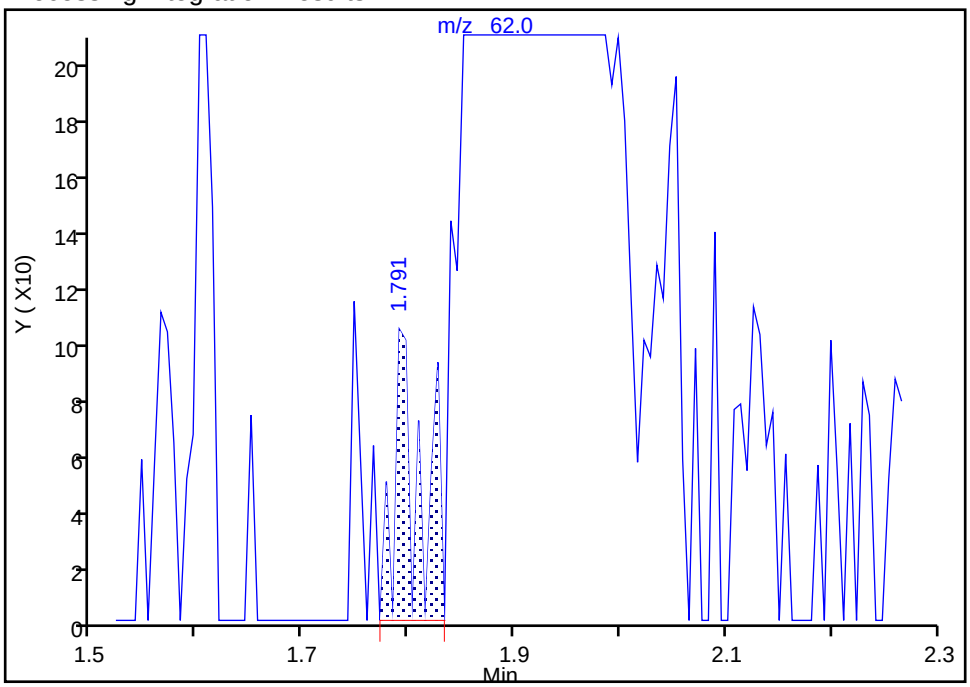
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

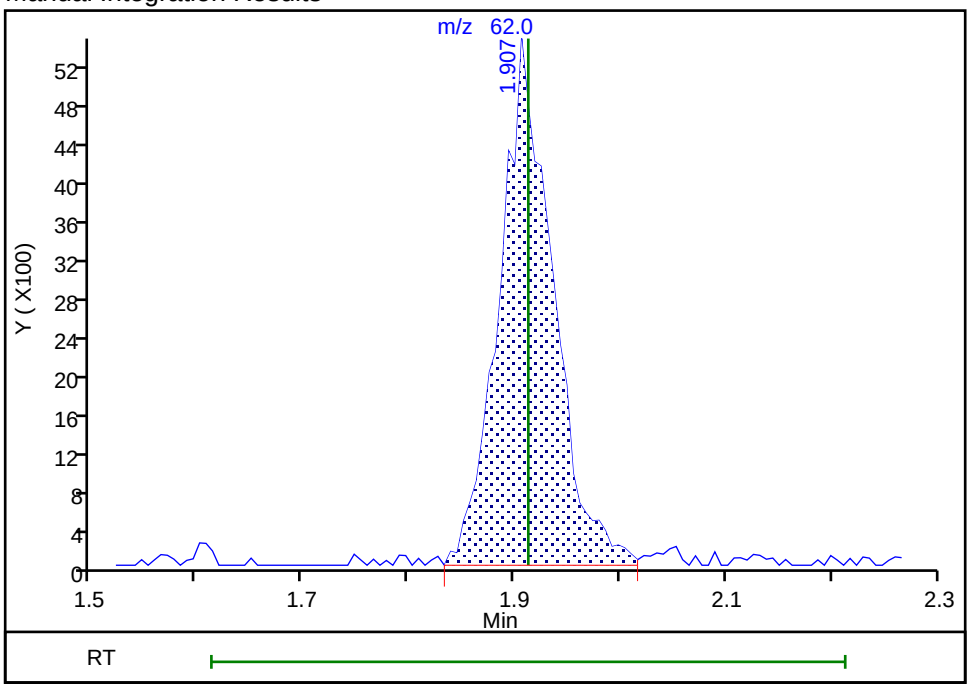
Processing Integration Results

RT: 1.79
Area: 174
Amount: 2.213694
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 19396
Amount: 4.479949
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:45:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

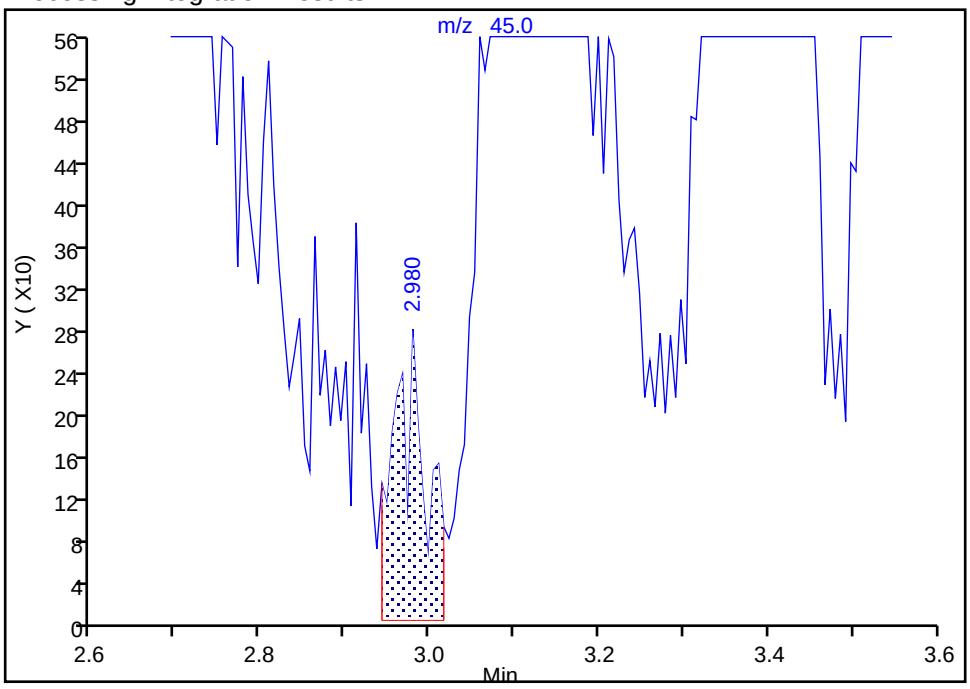
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

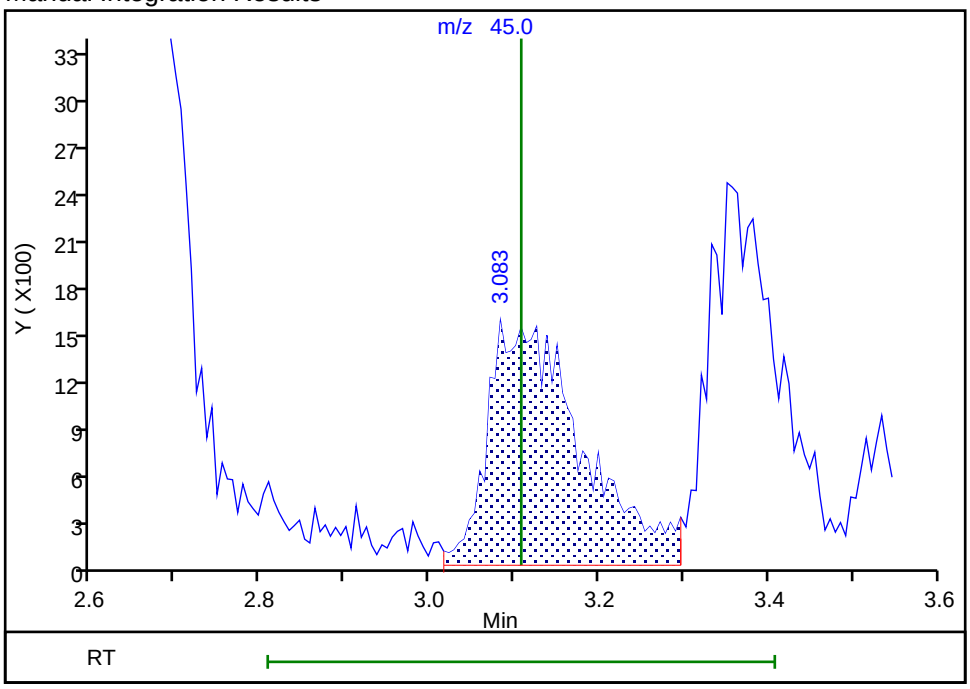
Processing Integration Results

RT: 2.98
Area: 725
Amount: 28.206783
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 11986
Amount: 54.166066
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

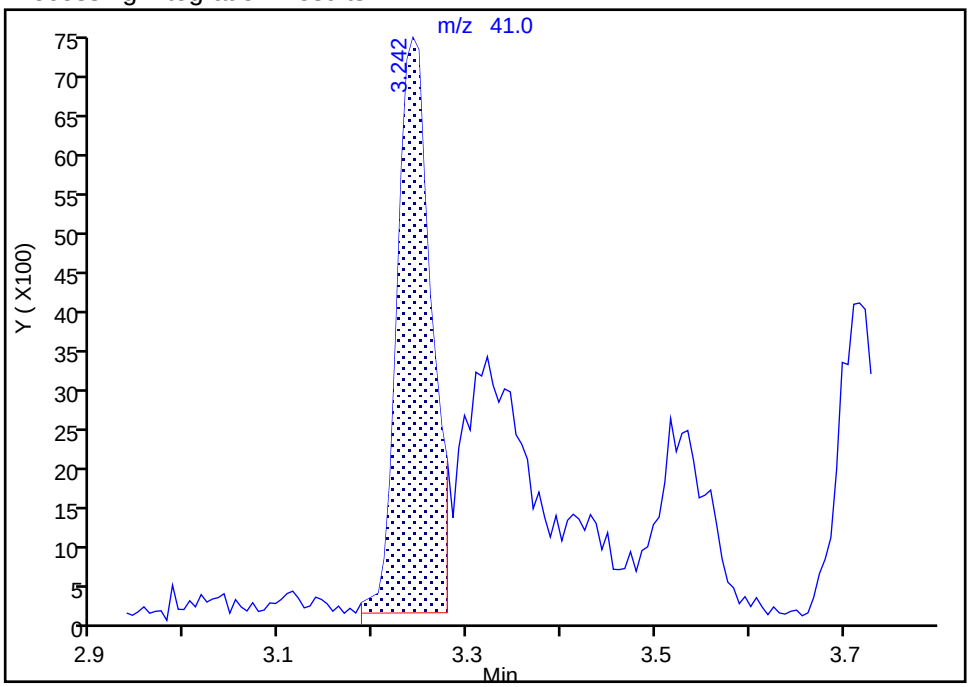
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

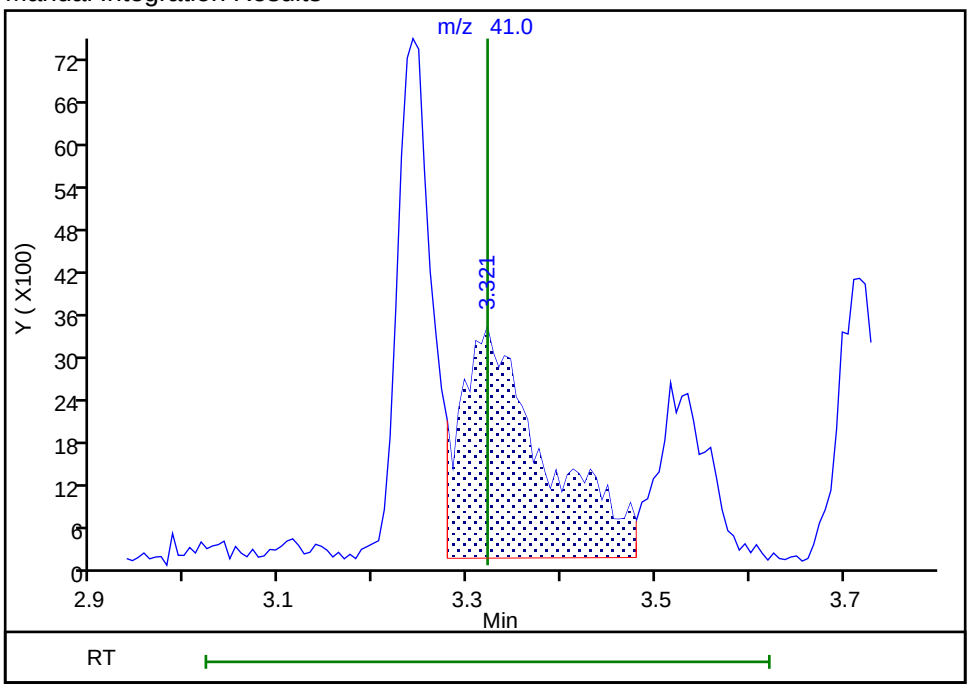
Processing Integration Results

RT: 3.24
Area: 18680
Amount: 44.716158
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 20495
Amount: 49.277687
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

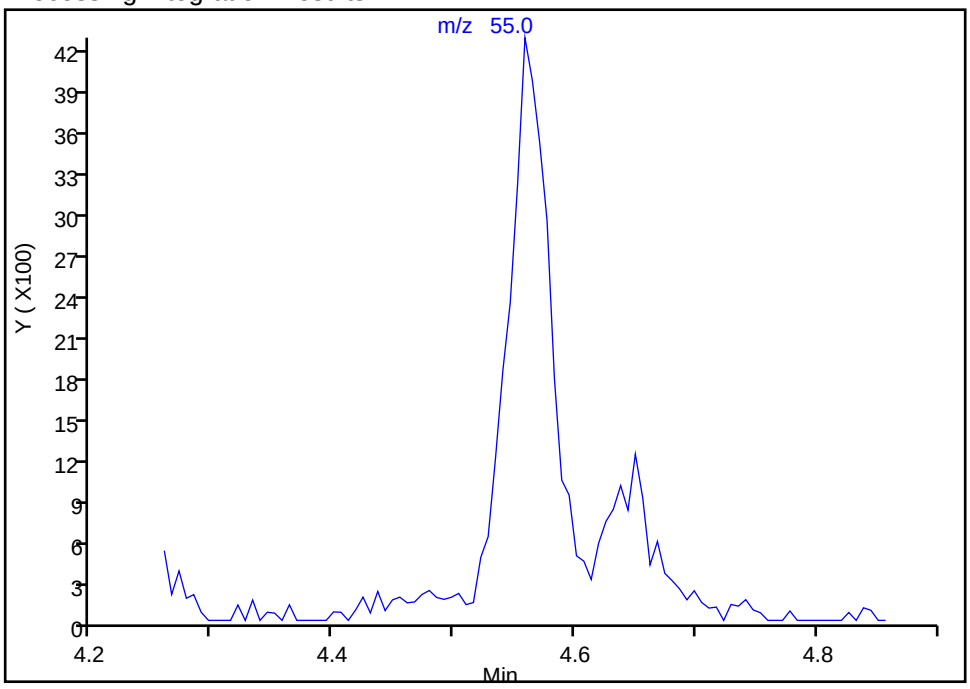
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

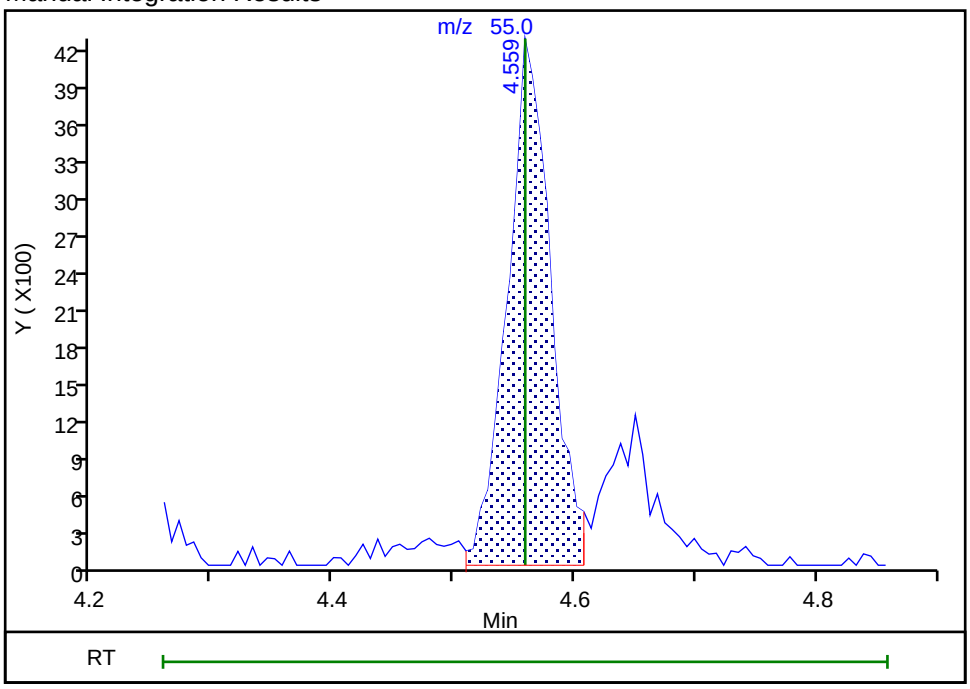
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 10523
Amount: 5.043030
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

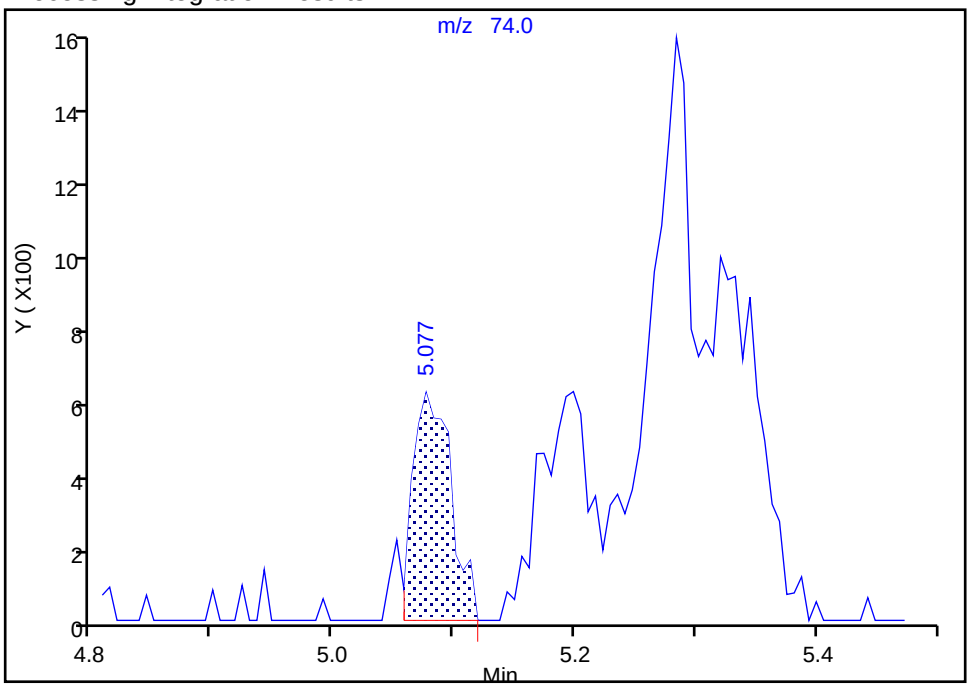
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

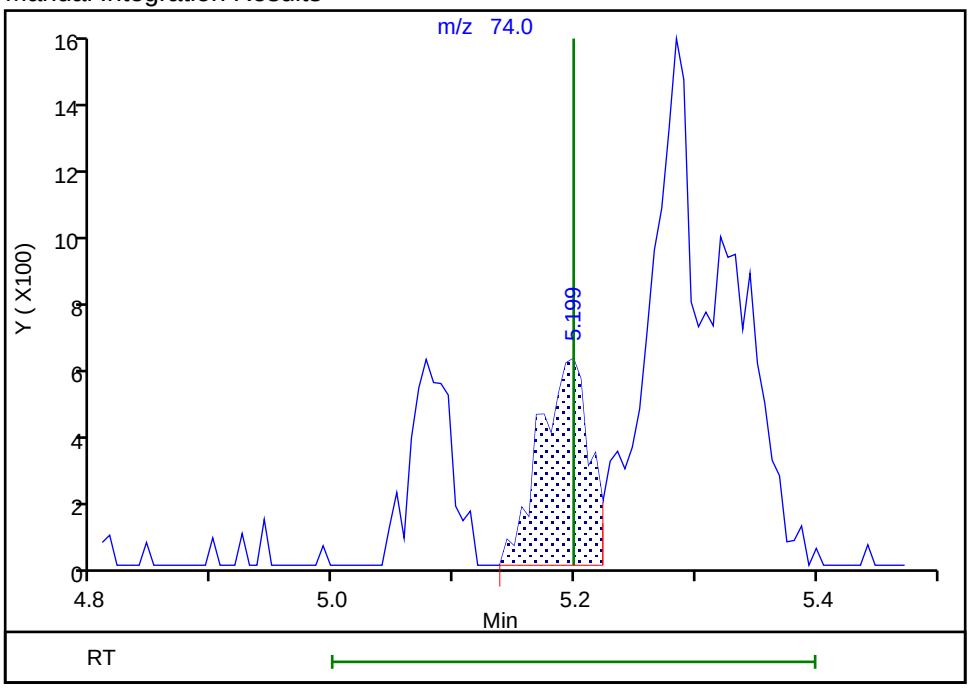
Processing Integration Results

RT: 5.08
Area: 1362
Amount: 75.811391
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 1798
Amount: 97.977820
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

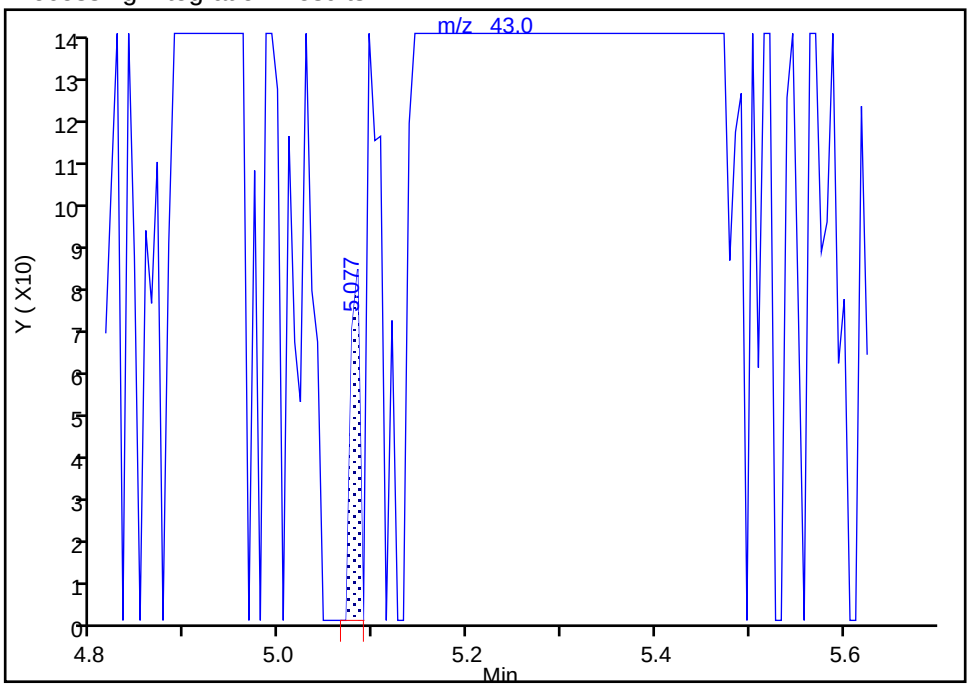
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

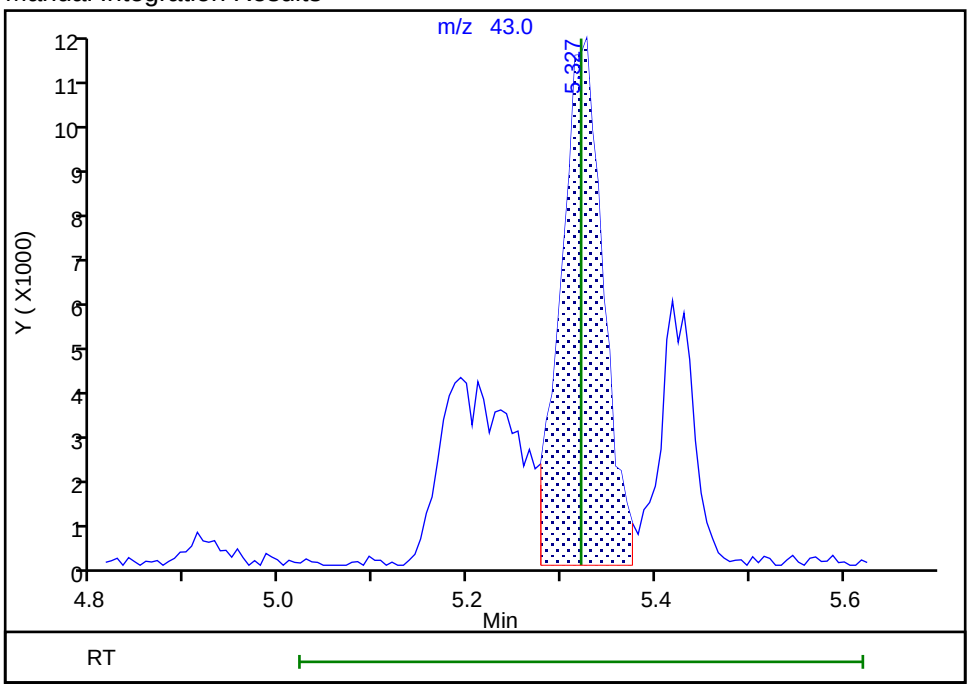
Processing Integration Results

RT: 5.08
Area: 55
Amount: 4.931305
Amount Units: ug/l



Manual Integration Results

RT: 5.33
Area: 37612
Amount: 4.620459
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

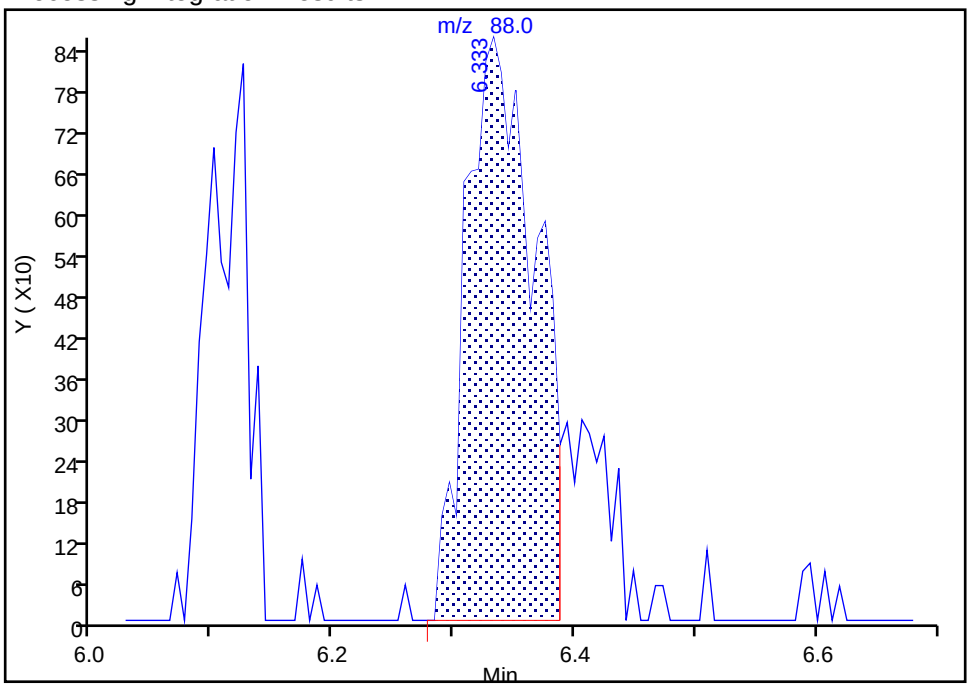
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

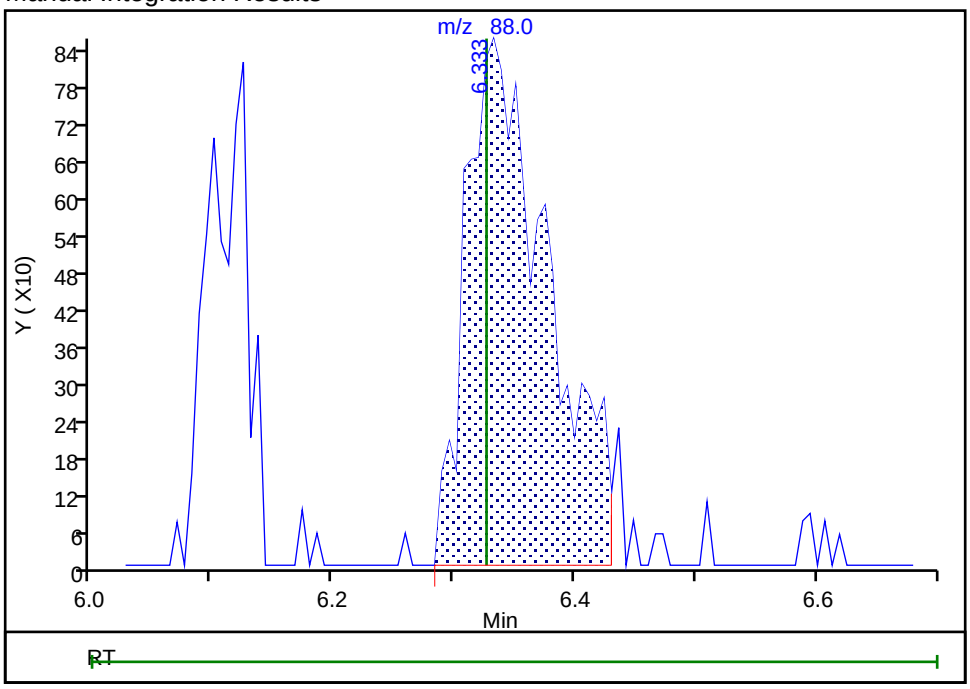
Processing Integration Results

RT: 6.33
Area: 3419
Amount: 81.458006
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 4033
Amount: 93.799684
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:45:51
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Jul-2018 02:35:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074947-005
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:45 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:42:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	86	52418	20.0	20.7	
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	98	111998	20.0	21.3	
3 Chloromethane	50	1.822	1.822	0.000	100	83388	20.0	19.3	
4 Vinyl chloride	62	1.913	1.913	0.000	97	90381	20.0	20.4	
5 Butadiene	54	1.919	1.919	0.000	89	72182	20.0	20.4	
6 Bromomethane	94	2.218	2.218	0.000	98	81457	20.0	20.1	
7 Chloroethane	64	2.273	2.273	0.000	99	49348	20.0	20.6	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	86	149729	20.0	21.3	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	140559	20.0	21.1	
10 Pentane	72	2.504	2.504	0.000	94	17093	40.0	35.1	
11 Ethyl ether	59	2.699	2.699	0.000	90	39782	20.0	19.4	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	94	45609	20.0	20.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	81	71847	20.0	20.7	
12 Ethanol	46	2.754	2.754	0.000	61	11486	800.0	888.1	a
15 Acrolein	56	2.882	2.882	0.000	96	101383	300.0	302.8	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	96	66915	20.0	19.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	55	75863	20.0	20.3	
18 Acetone	43	3.004	3.004	0.000	87	75553	100.0	94.7	
19 Iodomethane	142	3.083	3.083	0.000	98	169207	20.0	20.6	
22 Isopropyl alcohol	45	3.108	3.108	0.000	26	44664	200.0	206.5	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	218590	20.0	19.8	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	81	40344	20.0	20.4	
23 Methyl acetate	43	3.254	3.254	0.000	77	59759	40.0	36.7	
24 Cyclopentene	67	3.266	3.266	0.000	91	141480	20.0	21.3	
29 Acetonitrile	41	3.321	3.321	0.000	85	76843	200.0	189.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	84	73739	20.0	19.3	
* 25 TBA-d9 (IS)	65	3.376	3.376	0.000	0	315266	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	93	89019	200.0	190.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.000	94	197329	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	90	73612	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	94	181194	200.0	203.2	
32 Hexane	43	3.717	3.717	0.000	90	42552	20.0	20.4	
33 Isopropyl ether	45	3.925	3.925	0.000	92	154624	20.0	19.9	
35 Vinyl acetate	86	3.974	3.974	0.000	99	23821	40.0	39.0	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	76	109284	20.0	20.2	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	60491	20.0	20.2	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	183248	20.0	20.1	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195356	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	88	35715	20.0	20.7	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	85	87227	20.0	20.0	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	34679	100.0	95.4	
41 Ethyl acetate	70	4.504	4.504	0.000	85	12416	40.0	42.7	
44 Methyl acrylate	55	4.559	4.559	0.000	98	41899	20.0	19.6	a
43 Propionitrile	54	4.644	4.644	0.000	97	74854	200.0	191.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	54	15777	40.0	37.8	
46 Chlorobromomethane	128	4.729	4.729	0.000	64	49578	20.0	20.2	
47 Methacrylonitrile	67	4.748	4.748	0.000	88	225394	200.0	201.9	
48 Chloroform	83	4.778	4.778	0.000	98	129987	20.0	19.7	
49 Cyclohexane	84	4.925	4.925	0.000	84	101855	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	130186	20.0	20.6	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183890	50.0	51.0	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	115933	20.0	20.7	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	91697	20.0	20.5	
56 Isobutyl alcohol	74	5.199	5.199	0.000	93	8917	500.0	497.1	a
54 Benzene	78	5.284	5.284	0.000	95	263486	20.0	20.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	160739	50.0	48.0	
57 Isopropyl acetate	43	5.321	5.321	0.000	95	162815	20.0	19.5	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	95	66196	20.0	20.2	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	89552	20.0	19.1	
60 n-Heptane	57	5.424	5.424	0.000	83	50453	20.0	20.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	524058	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	83	45046	500.0	471.9	
63 Trichloroethene	95	5.930	5.930	0.000	93	76997	20.0	20.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	93	132704	20.0	21.7	
64 Ethyl acrylate	56	6.065	6.065	0.000	93	37954	20.0	20.1	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	87	55073	20.0	19.3	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	28660	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	76	72070	40.0	40.7	
70 n-Propyl acetate	43	6.327	6.327	0.000	96	62119	20.0	19.1	
69 1,4-Dioxane	88	6.327	6.327	0.000	29	18123	400.0	424.5	a
71 Dibromomethane	93	6.351	6.351	0.000	90	46676	20.0	19.3	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	92702	20.0	19.8	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	29805	20.0	19.6	
74 2-Nitropropane	41	6.833	6.833	0.000	85	21432	40.0	35.9	
75 Epichlorohydrin	57	6.942	6.942	0.000	98	101973	400.0	397.2	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	96016	20.0	19.3	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	240422	100.0	100.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	600096	50.0	49.9	
79 Toluene	91	7.333	7.333	0.000	93	301255	20.0	19.9	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	86857	20.0	19.2	
81 Ethyl methacrylate	69	7.692	7.692	0.000	84	70228	20.0	19.5	
82 1,1,2-Trichloroethane	83	7.894	7.894	0.000	94	46261	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	101618	20.0	20.4	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	82201	20.0	19.2	
85 2-Hexanone	43	8.156	8.156	0.000	93	151851	100.0	99.4	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	67025	20.0	19.4	
87 Chlorodibromomethane	129	8.345	8.345	0.000	97	70673	20.0	19.2	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	65649	20.0	20.1	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	453009	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	99	214946	20.0	20.1	
92 Ethylbenzene	106	9.186	9.186	0.000	97	117941	20.0	20.4	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	93	88009	20.0	19.9	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	142588	20.0	20.1	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	43582	20.0	20.3	
95 o-Xylene	106	9.802	9.802	0.000	95	149451	20.0	20.1	
96 Styrene	104	9.832	9.832	0.000	97	234499	20.0	20.6	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	80880	20.0	19.2	
98 Bromoform	173	10.070	10.070	0.000	98	46754	20.0	18.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	403055	20.0	20.9	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	250725	50.0	51.5	
101 Bromobenzene	156	10.545	10.545	0.000	81	114264	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	81714	20.0	19.8	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	433409	20.0	20.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	25010	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	89	18515	20.0	19.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	296512	20.0	19.9	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	393601	20.0	20.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	345257	20.0	20.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	248210	20.0	19.9	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	95827	20.0	19.9	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	288890	20.0	19.9	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	359787	20.0	20.2	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	443178	20.0	20.3	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	414905	20.0	20.3	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	99	224210	20.0	20.4	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	91	297066	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	221000	20.0	19.8	
118 Benzyl chloride	91	11.655	11.655	0.000	99	173003	20.0	20.0	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	385458	20.0	20.2	
120 p-Diethylbenzene	119	11.759	11.759	0.000	96	253230	20.0	21.4	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	196798	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	224089	20.0	20.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	414331	20.0	20.3	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	90	15652	20.0	18.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	209633	20.0	20.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	197711	20.0	20.4	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	97	96713	20.0	20.4	
128 Naphthalene	128	13.319	13.319	0.000	99	408897	20.0	20.2	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	97	193378	20.0	20.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.0	
S 131 Xylenes, Total	100				0		40.0	40.2	
S 132 Total BTEX	1				0		100.0	100.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

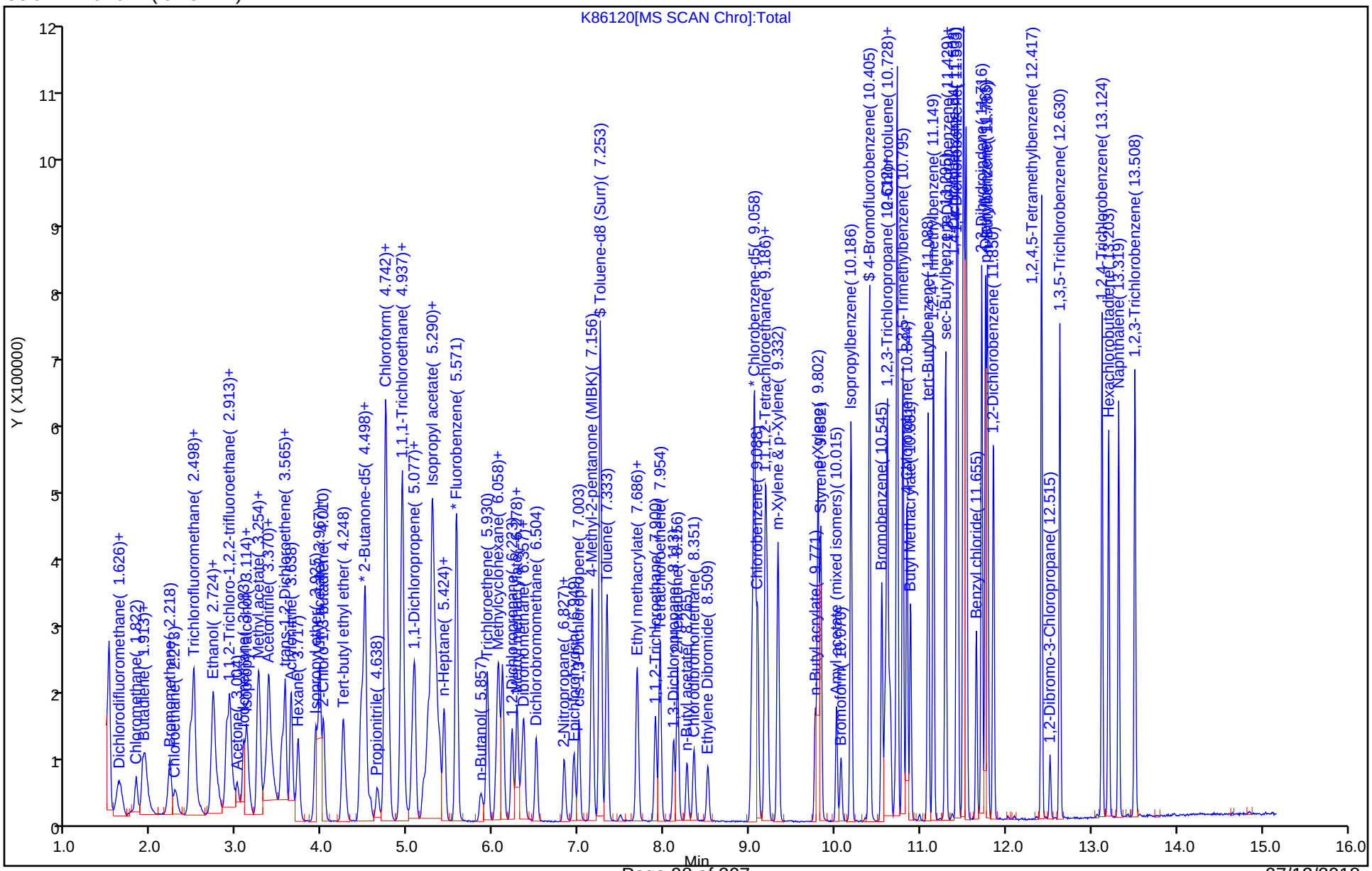
Report Date: 06-Jul-2018 18:58:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D

Injection Date:	06-Jul-2018 02:35:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

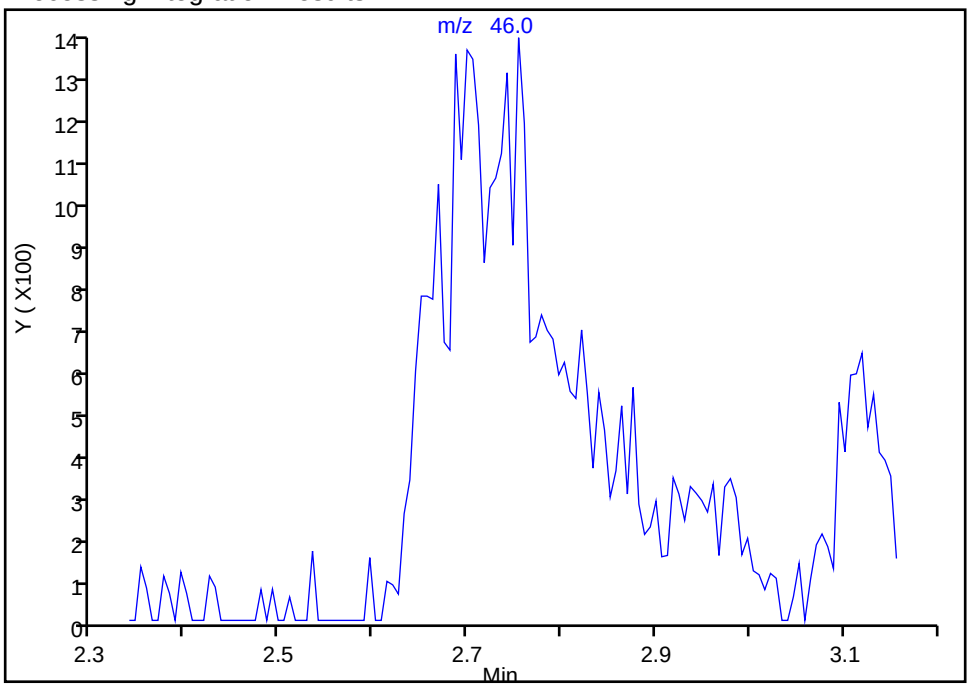
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

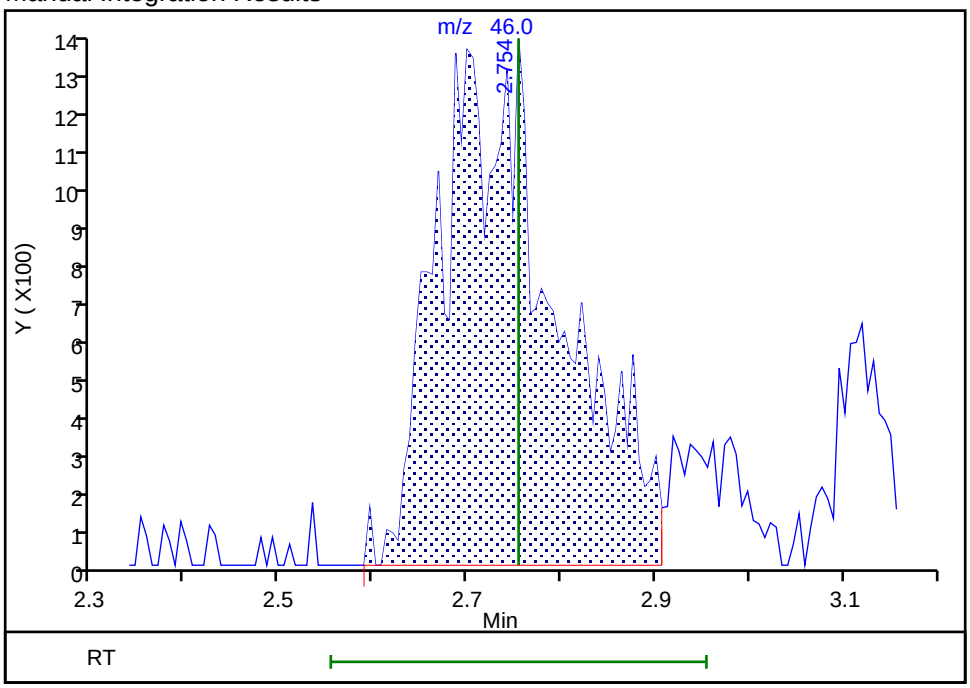
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.75
Area: 11486
Amount: 888.1042
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:39:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

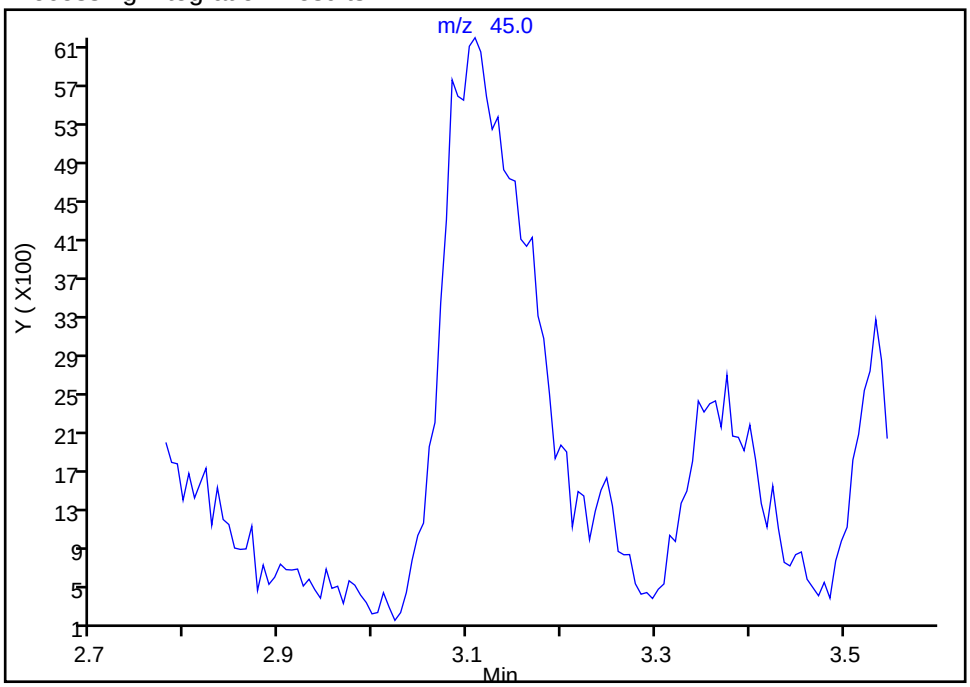
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

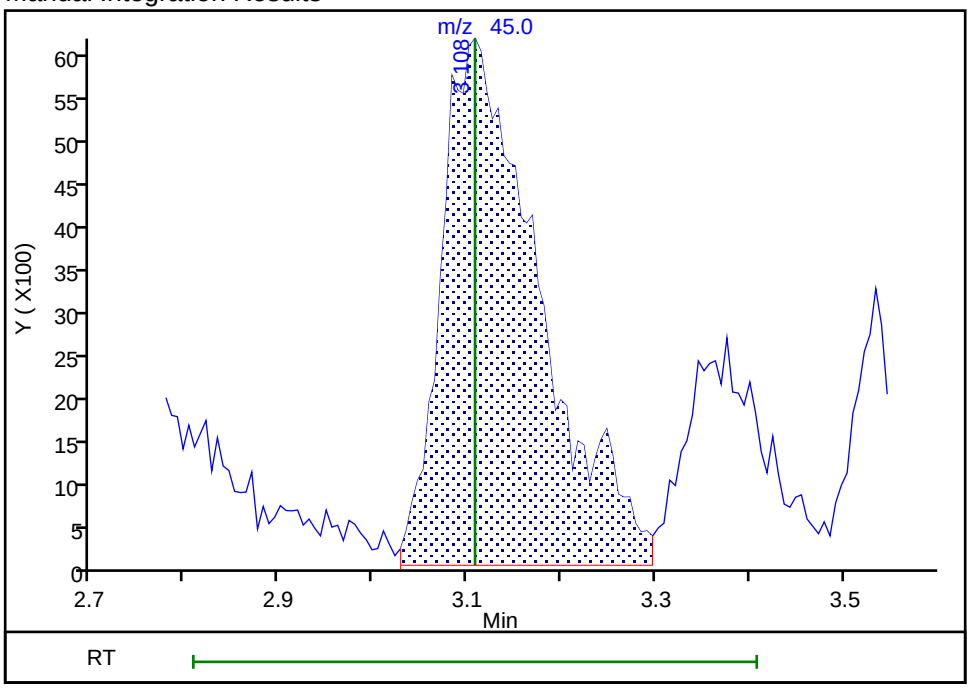
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 44664
Amount: 206.4947
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

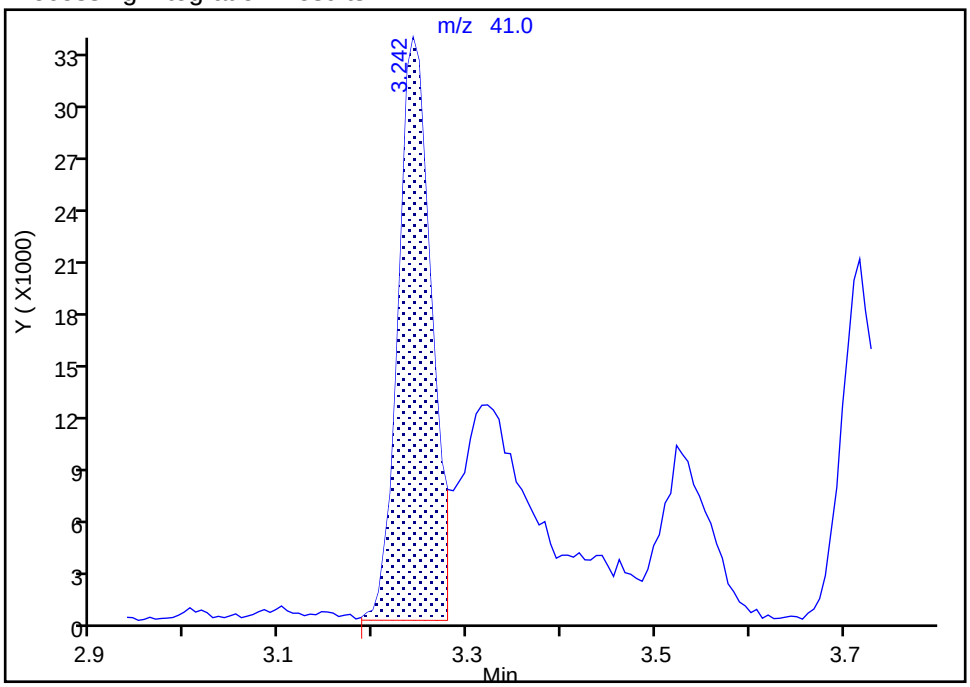
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

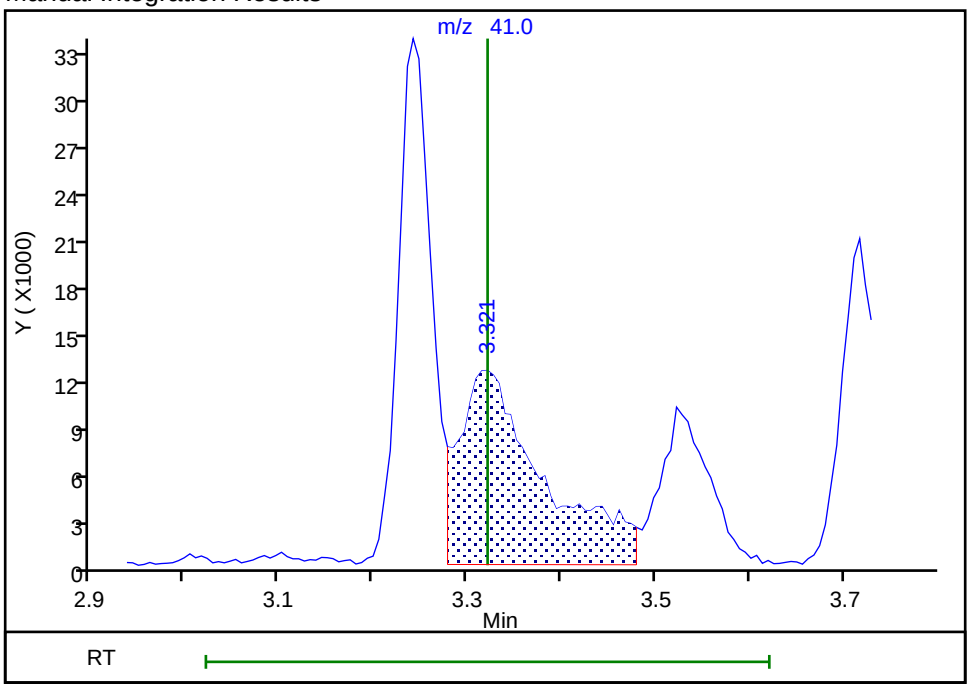
Processing Integration Results

RT: 3.24
Area: 81002
Amount: 189.9684
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 76843
Amount: 189.0188
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

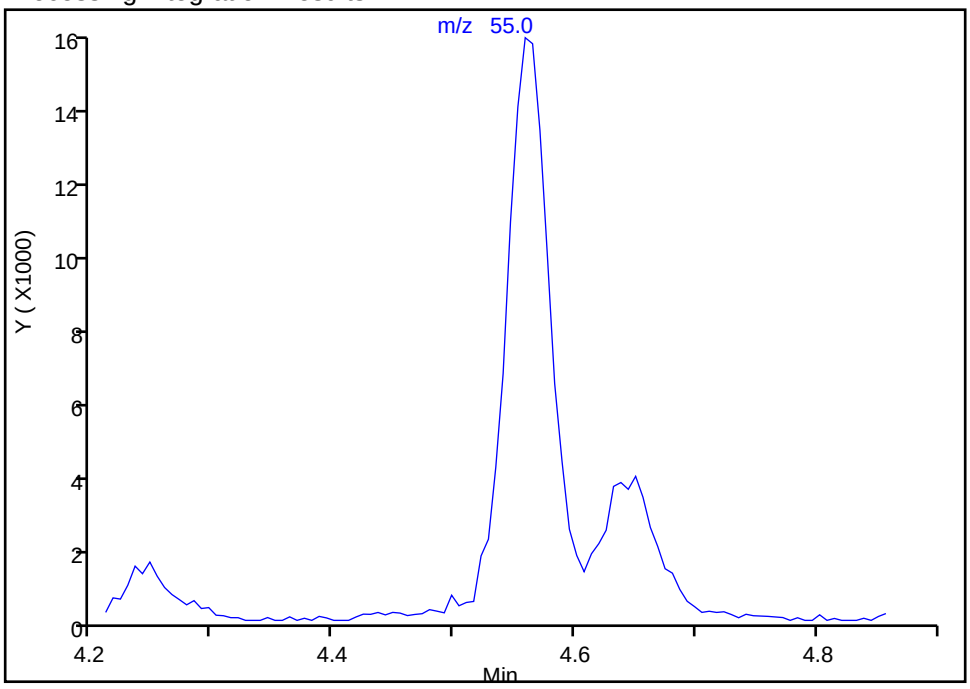
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

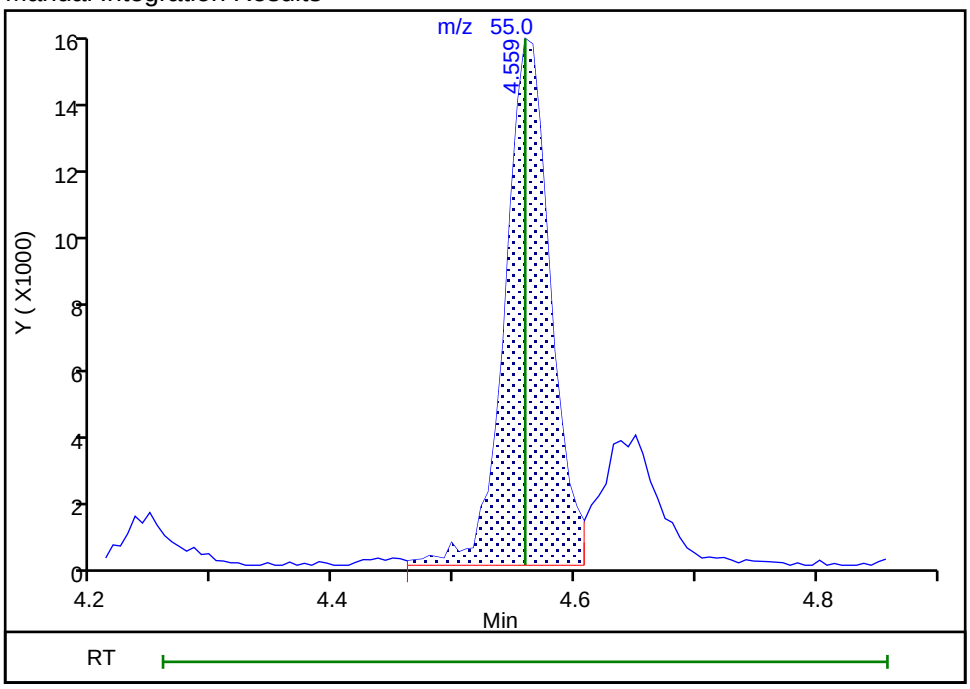
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 41899
Amount: 19.575586
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

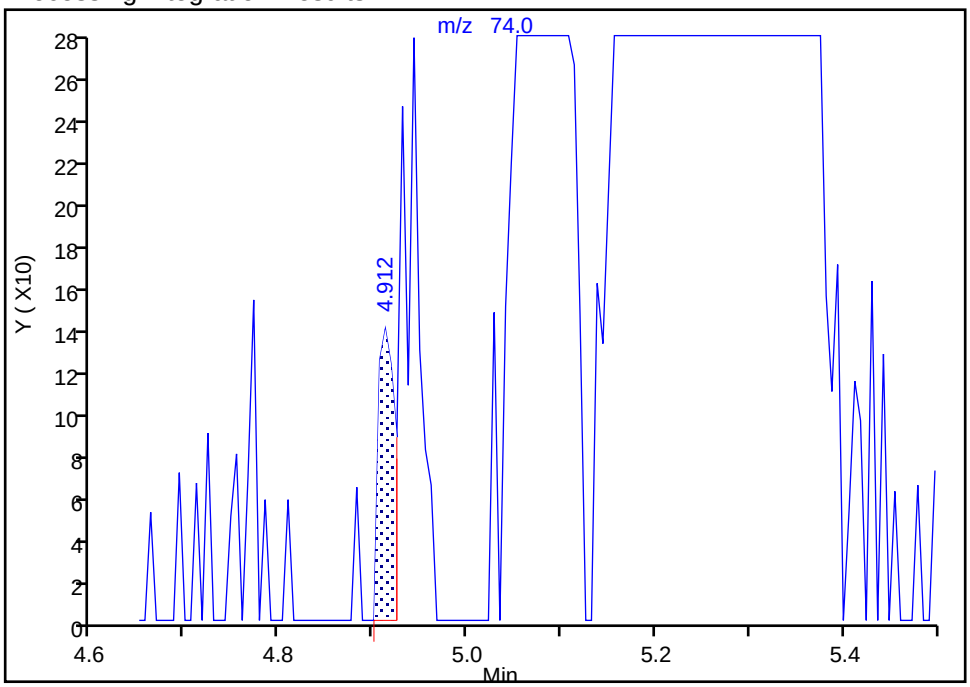
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

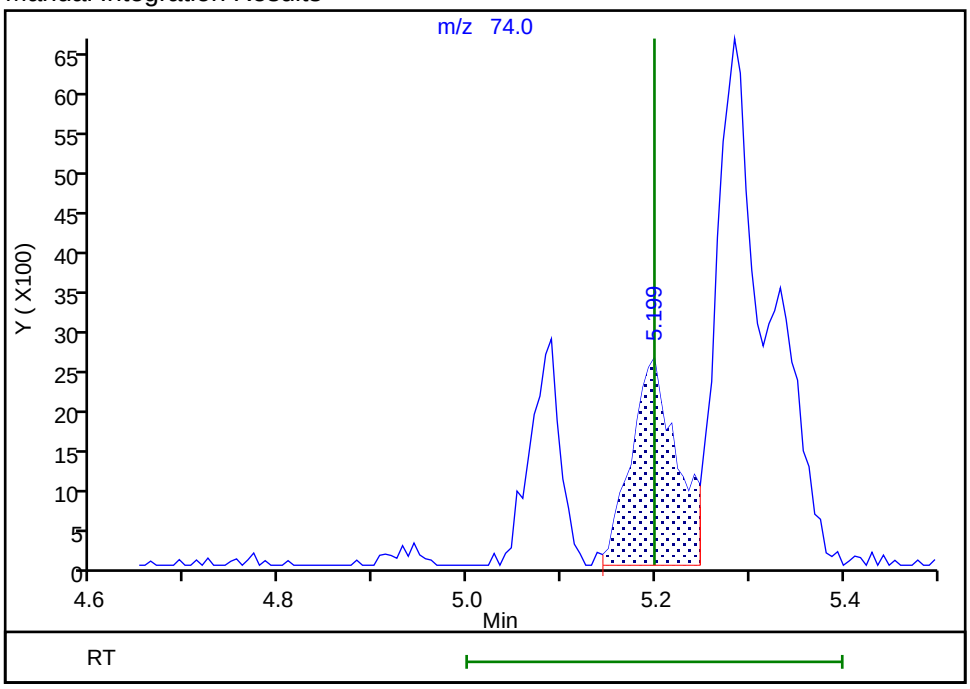
Processing Integration Results

RT: 4.91
Area: 174
Amount: 22.016312
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 8917
Amount: 497.1131
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

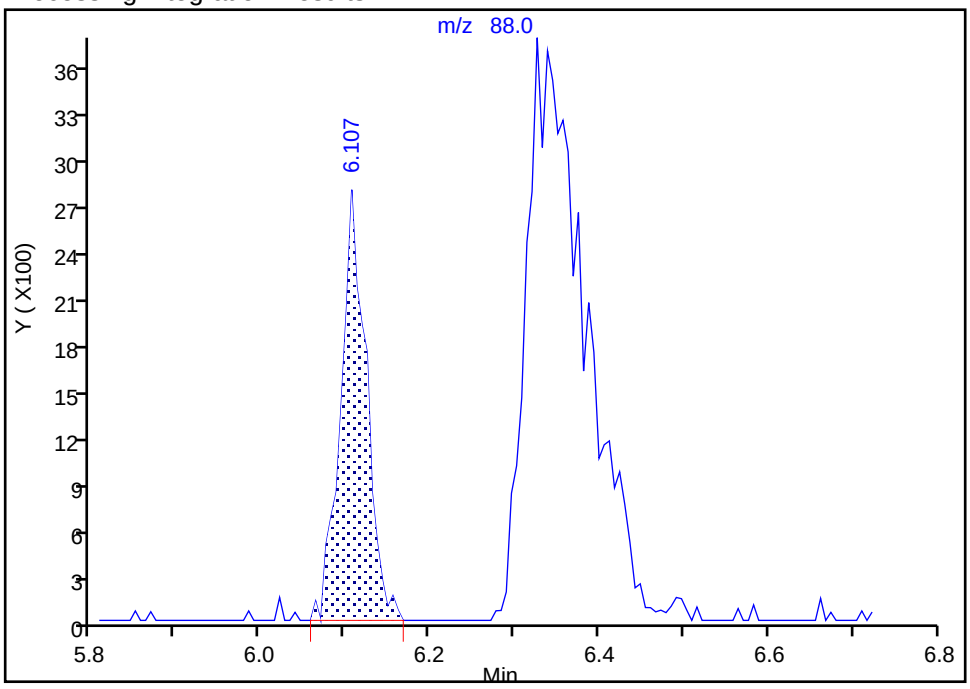
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

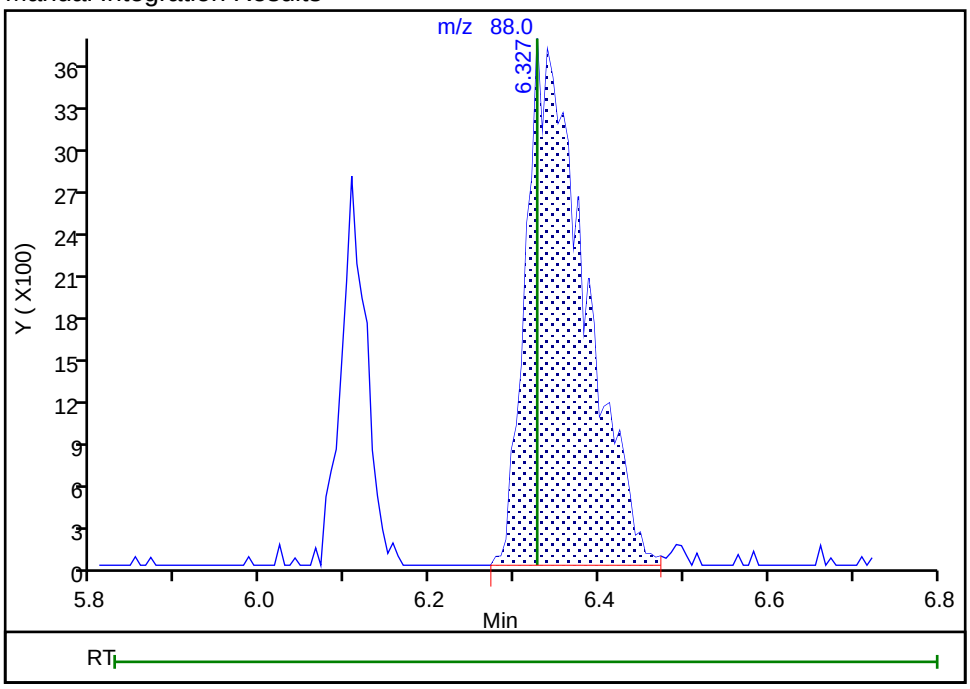
Processing Integration Results

RT: 6.11
Area: 5860
Amount: 190.8679
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 18123
Amount: 424.4616
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jul-2018 02:59:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074947-006
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:00 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:44:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	130419	50.0	50.6	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	99	281125	50.0	52.4	
3 Chloromethane	50	1.822	1.822	0.000	99	209589	50.0	47.5	
4 Vinyl chloride	62	1.913	1.913	0.000	98	229225	50.0	50.6	
5 Butadiene	54	1.919	1.919	0.000	74	181610	50.0	50.4	
6 Bromomethane	94	2.212	2.218	-0.006	97	204558	50.0	49.4	
7 Chloroethane	64	2.279	2.273	0.006	100	125970	50.0	51.6	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	366071	50.0	53.8	
8 Trichlorofluoromethane	101	2.456	2.462	-0.006	87	383407	50.0	53.5	
10 Pentane	72	2.492	2.504	-0.012	95	46935	100.0	99.6	
11 Ethyl ether	59	2.700	2.699	0.001	93	100630	50.0	48.1	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	117038	50.0	52.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	84	190654	50.0	54.0	
12 Ethanol	46	2.700	2.754	-0.054	61	28493	2000.0	2277.2	
15 Acrolein	56	2.882	2.882	0.000	98	132647	400.0	409.4	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	96	166446	50.0	47.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.913	2.925	-0.012	87	202738	50.0	53.1	
18 Acetone	43	3.004	3.004	0.000	87	176068	250.0	221.0	
19 Iodomethane	142	3.077	3.083	-0.006	98	419457	50.0	50.2	
22 Isopropyl alcohol	45	3.090	3.108	-0.018	26	103170	500.0	493.0	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	556272	50.0	49.4	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	89	102616	50.0	50.9	
23 Methyl acetate	43	3.242	3.254	-0.012	97	149700	100.0	95.0	
24 Cyclopentene	67	3.260	3.266	-0.006	94	356651	50.0	52.7	
29 Acetonitrile	41	3.309	3.321	-0.012	95	182117	500.0	463.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	184920	50.0	47.4	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	305011	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	94	211033	500.0	466.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.001	94	482529	50.0	48.7	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	189715	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	92	439324	500.0	483.0	
32 Hexane	43	3.712	3.717	-0.005	89	104407	50.0	49.2	
33 Isopropyl ether	45	3.925	3.925	0.000	94	391625	50.0	49.5	
34 1,1-Dichloroethane	63	3.968	3.974	-0.006	75	269363	50.0	48.8	
35 Vinyl acetate	86	3.974	3.974	0.000	99	57351	100.0	97.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	160745	50.0	52.5	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	459151	50.0	49.5	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195019	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.473	0.007	92	89356	50.0	50.8	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	217144	50.0	48.8	
41 Ethyl acetate	70	4.504	4.504	0.000	93	29864	100.0	104.9	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	83071	250.0	228.8	
44 Methyl acrylate	55	4.559	4.559	0.000	98	103291	50.0	47.3	
43 Propionitrile	54	4.644	4.644	0.000	97	183361	500.0	484.3	
45 Tetrahydrofuran	72	4.730	4.723	0.007	86	40304	100.0	96.8	
46 Chlorobromomethane	128	4.730	4.729	0.001	68	122405	50.0	48.9	
47 Methacrylonitrile	67	4.742	4.748	-0.006	88	562513	500.0	494.0	
48 Chloroform	83	4.778	4.778	0.000	99	333917	50.0	49.7	
49 Cyclohexane	84	4.919	4.925	-0.006	86	263540	50.0	53.5	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	98	178148	50.0	48.4	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	327534	50.0	50.9	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	97	294074	50.0	51.5	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	96	230608	50.0	50.5	
56 Isobutyl alcohol	74	5.193	5.199	-0.006	95	19987	1250.0	1151.7	a
54 Benzene	78	5.284	5.284	0.000	96	665118	50.0	49.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.296	0.001	0	165511	50.0	48.4	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	413420	50.0	48.6	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	167390	50.0	50.1	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	222791	50.0	46.6	
60 n-Heptane	57	5.425	5.424	0.001	84	127334	50.0	51.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	534426	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	110752	1250.0	1199.3	
63 Trichloroethene	95	5.931	5.930	0.001	94	192736	50.0	50.8	
65 Methylcyclohexane	83	6.059	6.058	0.001	93	331651	50.0	53.2	
64 Ethyl acrylate	56	6.053	6.065	-0.013	98	91463	50.0	47.5	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	89	142919	50.0	49.2	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	29939	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	80	180614	100.0	99.9	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	41357	1000.0	927.2	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	155324	50.0	46.8	
71 Dibromomethane	93	6.357	6.351	0.006	88	116161	50.0	47.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	230925	50.0	48.5	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	75700	50.0	48.8	
74 2-Nitropropane	41	6.833	6.833	0.000	83	51826	100.0	85.2	
75 Epichlorohydrin	57	6.943	6.942	0.001	99	256352	1000.0	1000.2	
76 cis-1,3-Dichloropropene	75	7.004	7.003	0.001	90	247393	50.0	48.4	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	599225	250.0	251.4	
$ 78 Toluene-d8 (Surr)	98	7.254	7.253	0.001	99	618788	50.0	50.0	
79 Toluene	91	7.333	7.333	0.000	93	769909	50.0	49.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	224848	50.0	48.4	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	179539	50.0	48.5	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	119023	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.955	7.954	0.001	96	260413	50.0	50.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	210429	50.0	47.9	
85 2-Hexanone	43	8.156	8.156	0.000	94	376353	250.0	246.8	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	166473	50.0	46.8	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	185004	50.0	48.9	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	163141	50.0	48.6	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	465894	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	99	545861	50.0	49.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	299865	50.0	50.5	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	226767	50.0	49.7	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	368302	50.0	50.5	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	110767	50.0	50.2	
95 o-Xylene	106	9.802	9.802	0.000	95	386379	50.0	50.4	
96 Styrene	104	9.832	9.832	0.000	97	604297	50.0	51.6	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	93	207413	50.0	49.7	
98 Bromoform	173	10.070	10.070	0.000	98	120501	50.0	47.1	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	1036812	50.0	52.2	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	246914	50.0	49.3	
101 Bromobenzene	156	10.546	10.545	0.001	81	285875	50.0	49.8	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	96	199535	50.0	48.8	
103 N-Propylbenzene	91	10.613	10.612	0.001	100	1109900	50.0	52.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	64414	50.0	50.2	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	93	45136	50.0	47.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	1006783	50.0	52.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	761014	50.0	51.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	882629	50.0	52.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	633538	50.0	51.3	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	244299	50.0	51.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	764303	50.0	53.2	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	914193	50.0	51.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	1151652	50.0	53.2	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	1068622	50.0	52.8	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	554819	50.0	50.9	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	294521	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	548468	50.0	49.7	
118 Benzyl chloride	91	11.655	11.655	0.000	100	427347	50.0	49.7	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	969203	50.0	51.4	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	622855	50.0	53.2	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	500935	50.0	53.1	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	560102	50.0	50.7	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	1072321	50.0	52.9	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	89	38675	50.0	45.9	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	516732	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	490747	50.0	51.1	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	97	248504	50.0	52.9	
128 Naphthalene	128	13.319	13.319	0.000	99	1007107	50.0	50.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	471447	50.0	50.9	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.3	
S 131 Xylenes, Total	100				0		100.0	100.9	
S 132 Total BTEX	1				0		250.0	250.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00267	Amount Added:	5.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	5.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

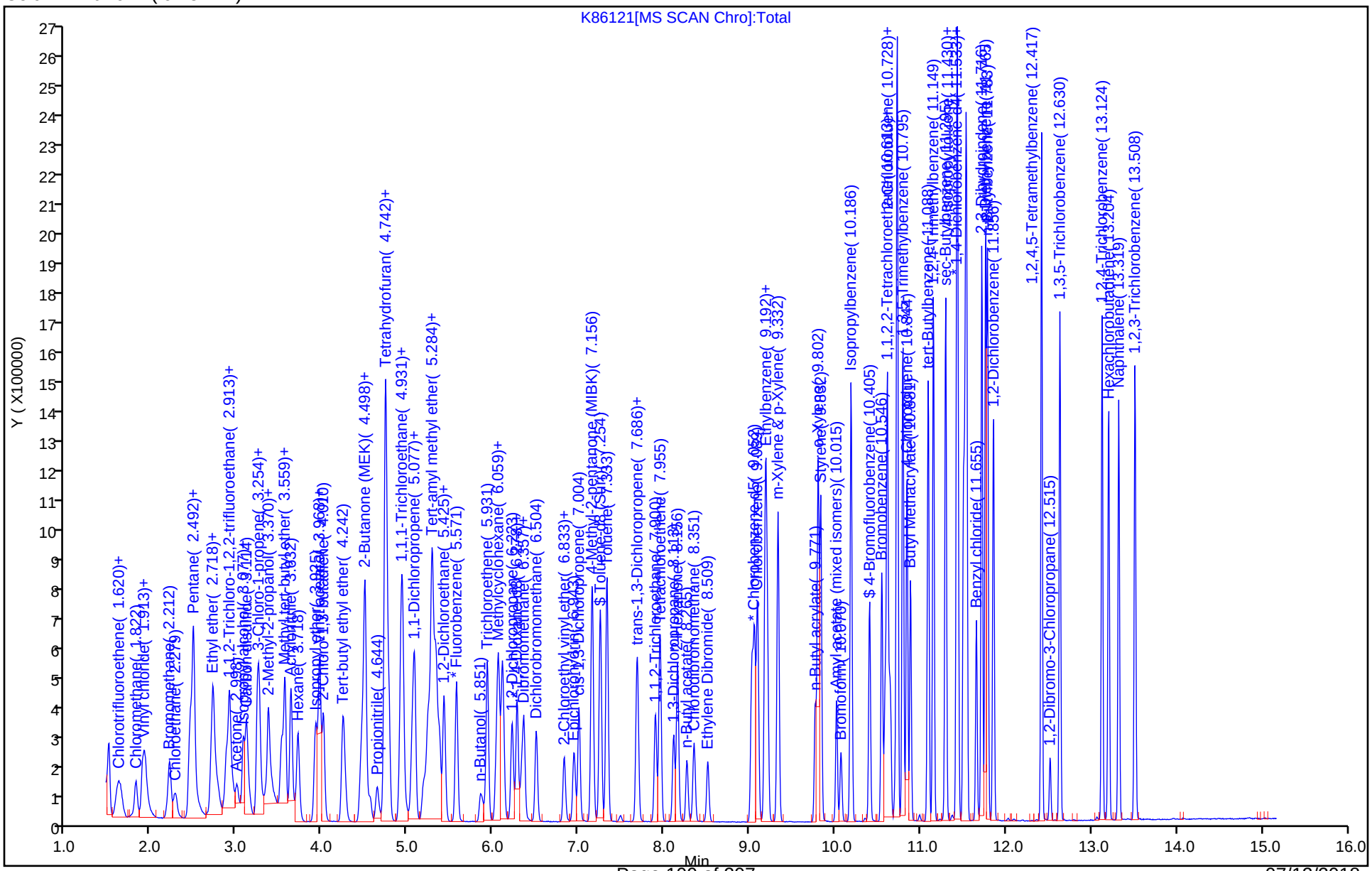
Report Date: 06-Jul-2018 18:59:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D

Injection Date:	06-Jul-2018 02:59:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

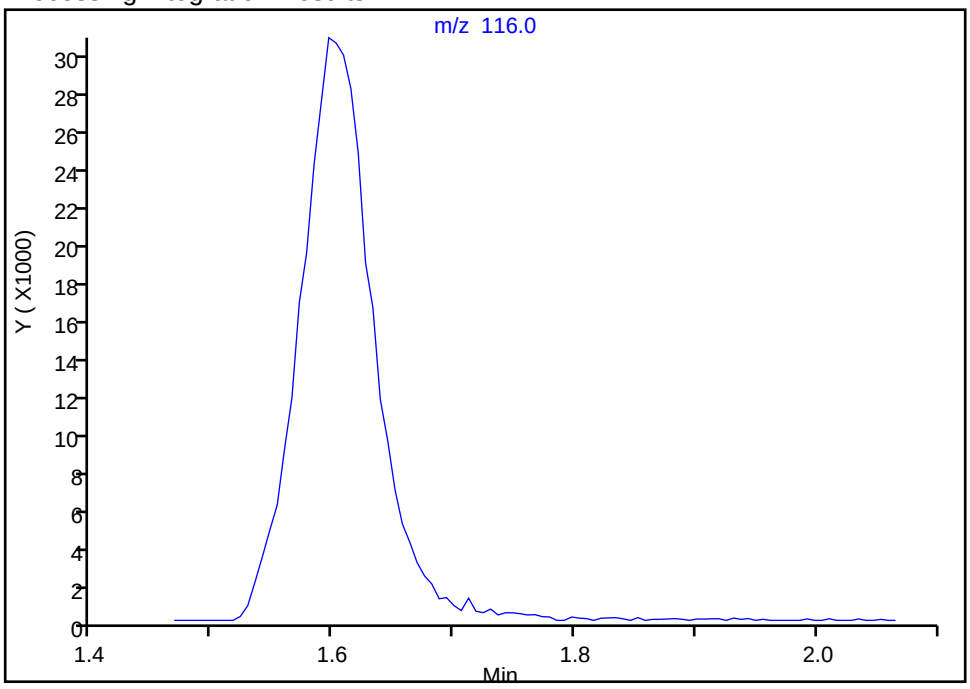
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

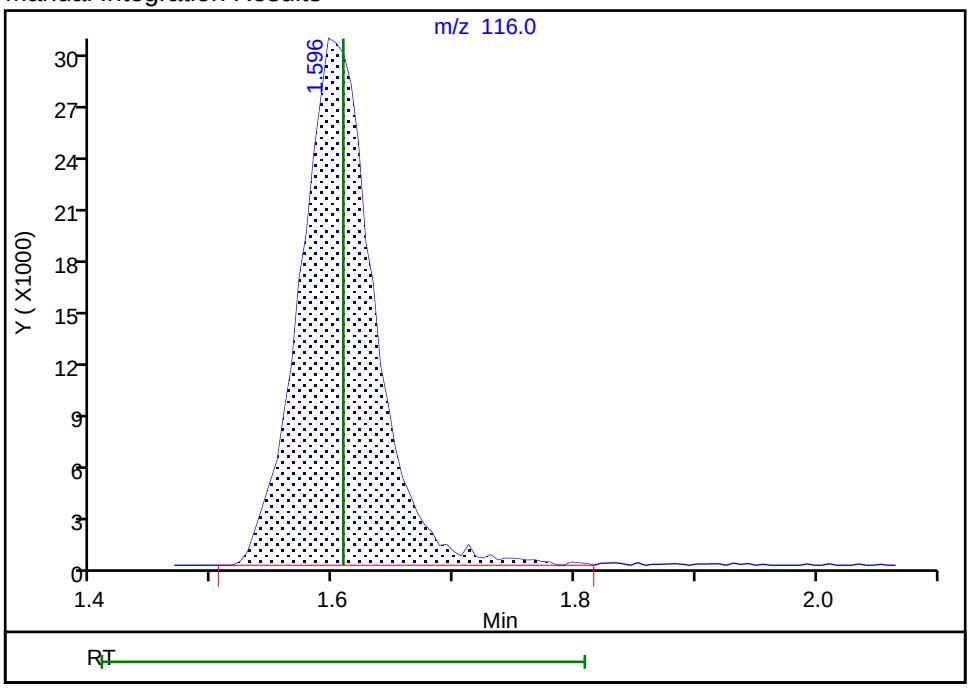
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 130419
Amount: 50.625555
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:42:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

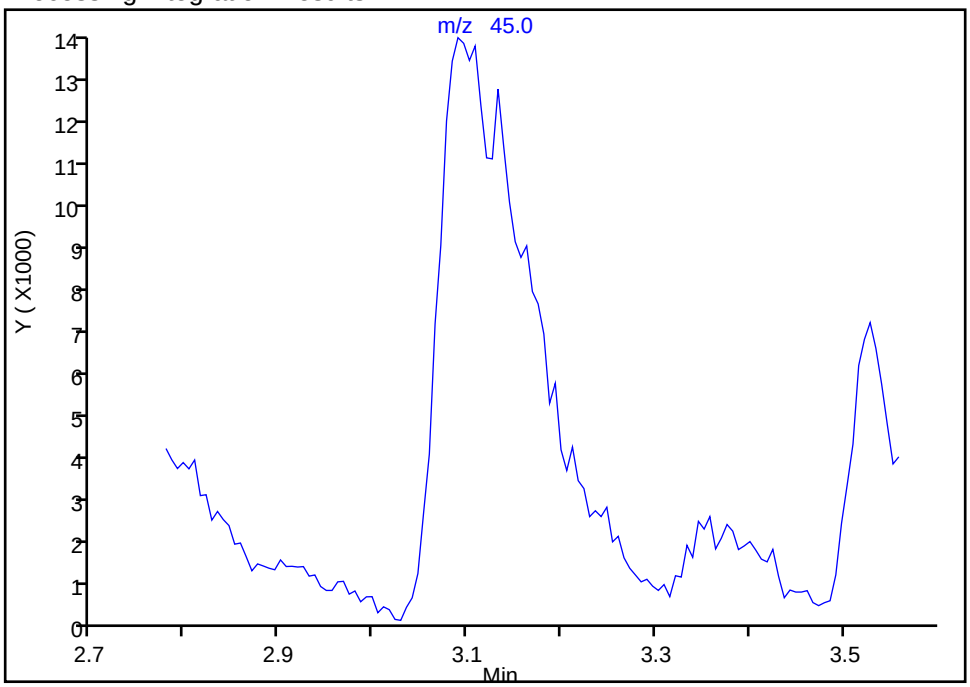
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

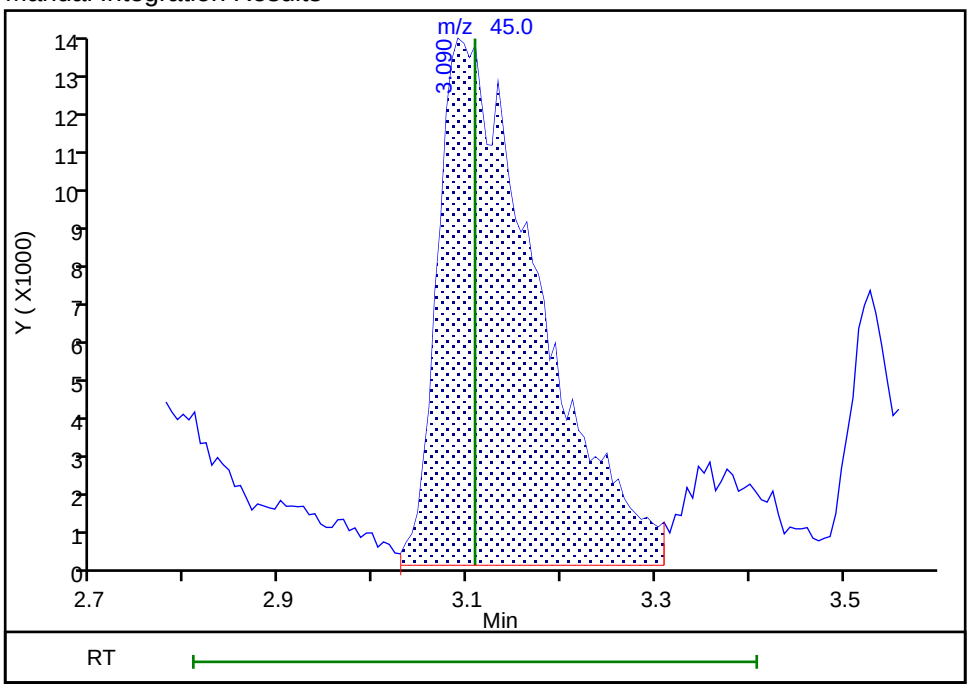
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 103170
Amount: 493.0222
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

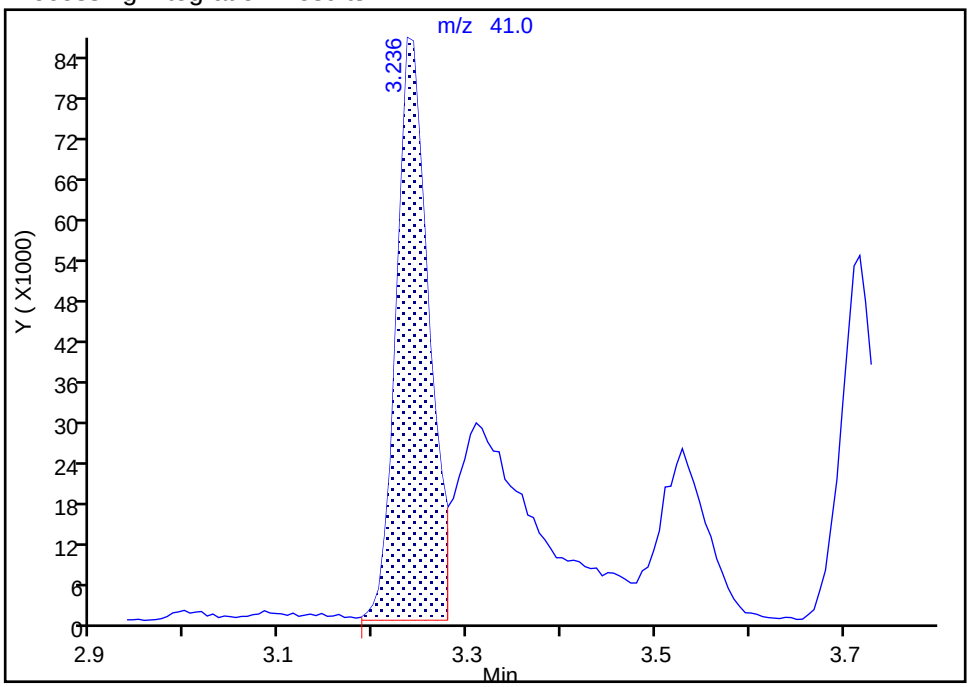
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

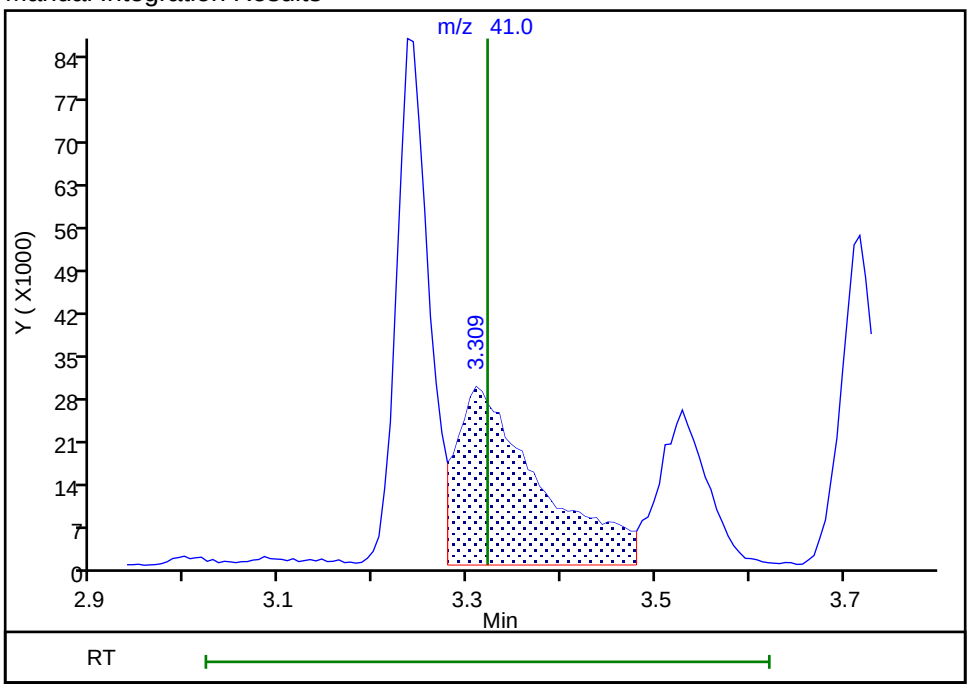
Processing Integration Results

RT: 3.24
Area: 207983
Amount: 510.3906
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 182117
Amount: 463.0340
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

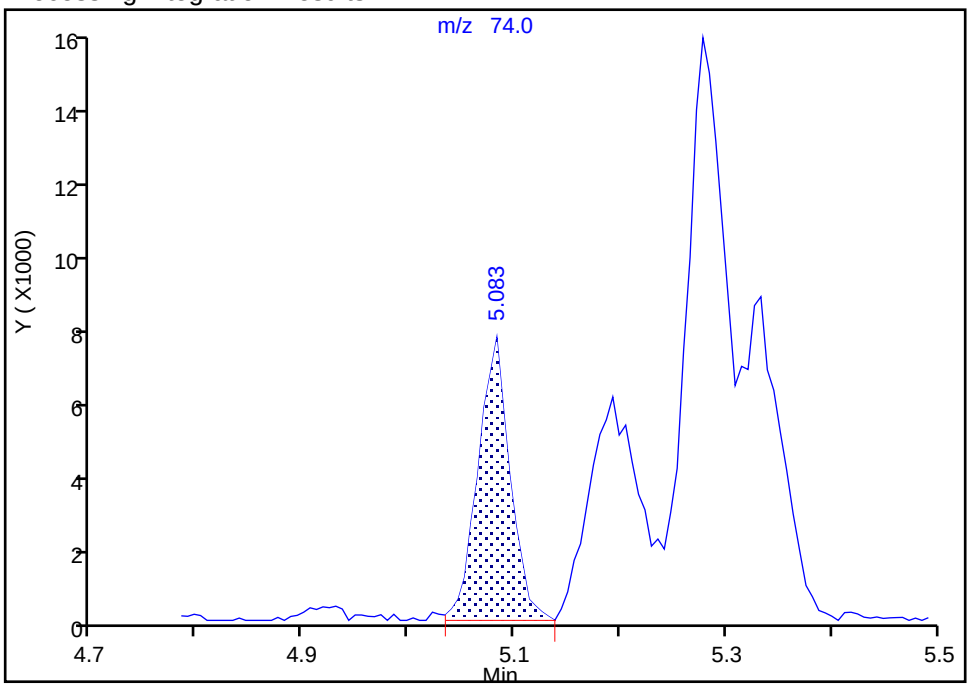
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

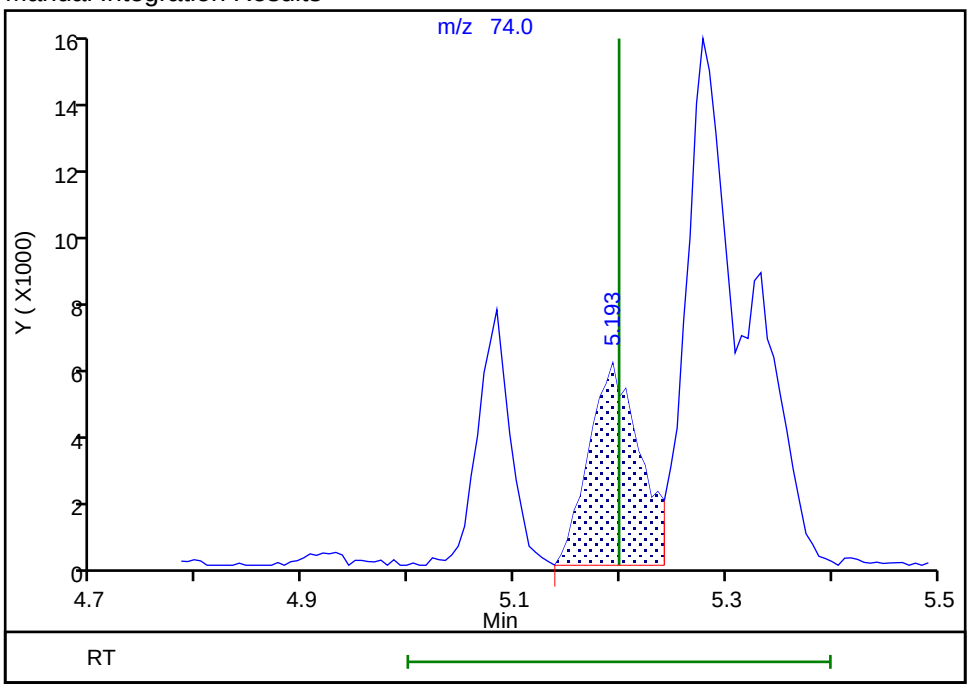
Processing Integration Results

RT: 5.08
Area: 15749
Amount: 1241.8710
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 19987
Amount: 1151.7168
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jul-2018 03:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074947-007
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:13 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:57:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	607536	200.0	222.3	
2 Dichlorodifluoromethane	85	1.632	1.639	-0.007	99	1286845	200.0	226.2	
3 Chloromethane	50	1.821	1.822	-0.001	99	1010119	200.0	215.9	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	1044128	200.0	217.3	
5 Butadiene	54	1.919	1.919	0.000	95	833795	200.0	218.3	
6 Bromomethane	94	2.212	2.218	-0.006	99	902516	200.0	205.5	
7 Chloroethane	64	2.279	2.273	0.006	100	549048	200.0	211.8	
8 Trichlorofluoromethane	101	2.455	2.462	-0.007	98	1674031	200.0	220.0	
9 Dichlorofluoromethane	67	2.461	2.462	-0.001	98	1599349	200.0	221.6	
10 Pentane	72	2.492	2.504	-0.012	96	227930	400.0	453.0	
11 Ethyl ether	59	2.693	2.699	-0.006	92	420279	200.0	189.5	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	94	468066	200.0	196.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	83	777768	200.0	207.5	
12 Ethanol	46	2.699	2.754	-0.055	62	115315	8000.0	8635.5	
15 Acrolein	56	2.876	2.882	-0.006	94	167756	500.0	485.2	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	714314	200.0	193.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.019	95	837057	200.0	206.9	
18 Acetone	43	2.998	3.004	-0.006	86	842718	1000.0	962.8	
19 Iodomethane	142	3.071	3.083	-0.012	98	1747261	200.0	197.1	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	478640	2000.0	2143.2	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	2399859	200.0	200.9	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	428768	200.0	200.4	
23 Methyl acetate	43	3.242	3.254	-0.012	96	689720	400.0	410.1	
24 Cyclopentene	67	3.260	3.266	-0.006	93	1439985	200.0	200.6	
29 Acetonitrile	41	3.309	3.321	-0.012	96	791685	2000.0	1886.1	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	772369	200.0	186.5	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	325513	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	98	930632	2000.0	1927.4	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	95	2057279	200.0	195.6	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	776878	200.0	195.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	1931080	2000.0	2001.6	
32 Hexane	43	3.711	3.717	-0.006	90	460117	200.0	204.3	
33 Isopropyl ether	45	3.925	3.925	0.000	94	1659263	200.0	197.7	
35 Vinyl acetate	86	3.973	3.974	-0.001	99	254633	400.0	403.4	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	72	1150773	200.0	196.7	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	648116	200.0	199.7	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	1896772	200.0	192.8	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	214251	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	94	370450	200.0	198.6	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	900467	200.0	190.8	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	378071	1000.0	948.0	
41 Ethyl acetate	70	4.498	4.504	-0.006	94	133642	400.0	423.6	
44 Methyl acrylate	55	4.559	4.559	0.000	98	471496	200.0	203.6	
43 Propionitrile	54	4.638	4.644	-0.006	97	802779	2000.0	1986.7	
45 Tetrahydrofuran	72	4.723	4.723	0.000	83	179889	400.0	393.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	67	509139	200.0	191.9	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	2435931	2000.0	2016.8	
48 Chloroform	83	4.778	4.778	0.000	99	1390169	200.0	195.1	
49 Cyclohexane	84	4.918	4.925	-0.007	86	1114906	200.0	213.2	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.007	97	1360855	200.0	199.3	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	188726	50.0	48.4	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	1224185	200.0	202.1	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	966910	200.0	199.6	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	98909	5000.0	5340.5	
54 Benzene	78	5.284	5.284	0.000	95	2855529	200.0	199.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	186761	50.0	51.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	1843436	200.0	204.1	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	700029	200.0	197.6	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	962696	200.0	189.7	
60 n-Heptane	57	5.424	5.424	0.000	85	527709	200.0	200.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	566899	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	530638	5000.0	5384.4	
63 Trichloroethene	95	5.930	5.930	0.000	94	825738	200.0	205.1	
65 Methylcyclohexane	83	6.058	6.058	0.000	92	1374050	200.0	207.7	
64 Ethyl acrylate	56	6.052	6.065	-0.013	98	381762	200.0	187.0	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	88	616377	200.0	200.1	
* 67 1,4-Dioxane-d8	96	6.284	6.272	0.012	0	28829	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	825729	400.0	430.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	96	722807	200.0	205.2	
69 1,4-Dioxane	88	6.339	6.327	0.012	28	181733	4000.0	4231.4	
71 Dibromomethane	93	6.357	6.351	0.006	89	509861	200.0	195.0	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	1025706	200.0	203.0	
73 2-Chloroethyl vinyl ether	63	6.826	6.827	-0.001	87	336535	200.0	204.4	
74 2-Nitropropane	41	6.833	6.833	0.000	93	257855	400.0	399.7	
75 Epichlorohydrin	57	6.948	6.942	0.006	99	1180824	4000.0	4193.5	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	1124267	200.0	205.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	2699838	1000.0	1031.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	662068	50.0	50.0	
79 Toluene	91	7.332	7.333	-0.001	93	3319799	200.0	199.1	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	1012794	200.0	203.7	
81 Ethyl methacrylate	69	7.692	7.692	0.000	82	804595	200.0	203.2	
82 1,1,2-Trichloroethane	83	7.899	7.894	0.005	95	524975	200.0	204.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	96	1085505	200.0	198.1	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	933709	200.0	198.5	
85 2-Hexanone	43	8.155	8.156	-0.001	94	1718735	1000.0	1025.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	740660	200.0	194.4	
87 Chlorodibromomethane	129	8.351	8.345	0.006	98	857879	200.0	212.0	
88 Ethylene Dibromide	107	8.515	8.509	0.006	99	723392	200.0	201.2	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	498452	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	2346554	200.0	199.8	
92 Ethylbenzene	106	9.186	9.186	0.000	97	1268542	200.0	199.8	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	990217	200.0	203.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	1561340	200.0	200.0	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	475456	200.0	201.3	
95 o-Xylene	106	9.802	9.802	0.000	95	1634374	200.0	199.4	
96 Styrene	104	9.832	9.832	0.000	96	2594673	200.0	207.0	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	914505	200.0	208.3	
98 Bromoform	173	10.070	10.070	0.000	98	565141	200.0	206.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	4358252	200.0	205.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	262659	50.0	49.1	
101 Bromobenzene	156	10.545	10.545	0.000	83	1231290	200.0	203.6	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	886776	200.0	206.0	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	4624829	200.0	207.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	277760	200.0	205.8	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	203418	200.0	203.4	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	3183461	200.0	204.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	4093676	200.0	201.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	3796493	200.0	213.3	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	2717604	200.0	209.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	1072625	200.0	213.2	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	3286057	200.0	217.2	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	3894089	200.0	209.5	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	4867383	200.0	213.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	4491019	200.0	210.9	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	2270831	200.0	197.7	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	90	310039	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	2272564	200.0	195.6	
118 Benzyl chloride	91	11.655	11.655	0.000	100	1862889	200.0	205.9	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	4044900	200.0	203.6	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	2422045	200.0	196.5	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	2078634	200.0	209.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	2339789	200.0	201.3	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	4456946	200.0	209.0	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	91	178584	200.0	201.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	2066725	200.0	194.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	1991589	200.0	197.1	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	1033478	200.0	209.0	
128 Naphthalene	128	13.319	13.319	0.000	99	4222543	200.0	200.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	1932351	200.0	198.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	385.8	
S 131 Xylenes, Total	100				0		400.0	399.5	
S 132 Total BTEX	1				0		1000.0	997.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	5.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 06-Jul-2018 18:59:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D

Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9 Operator ID:

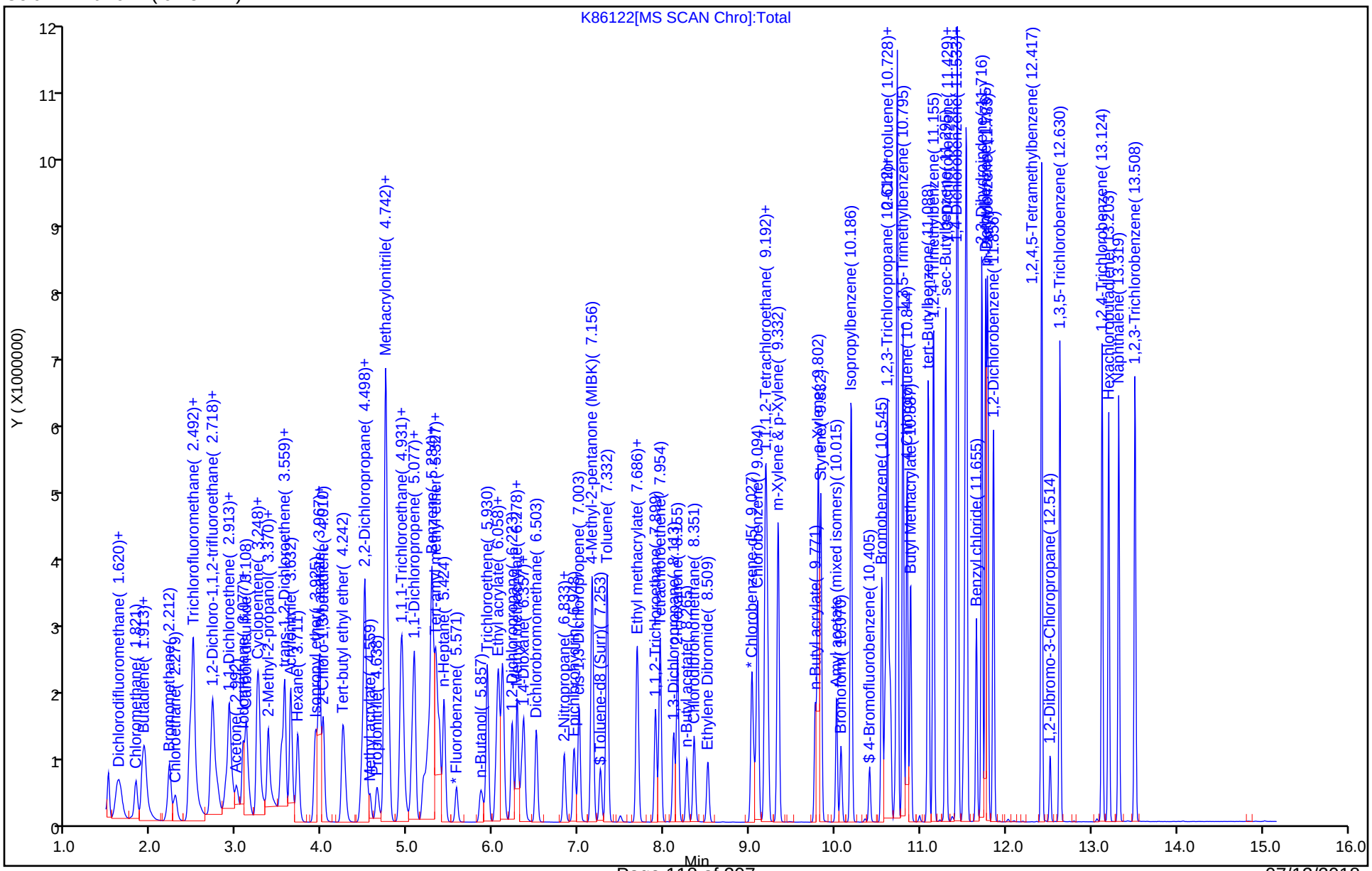
Lims ID: STD200 Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 6

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

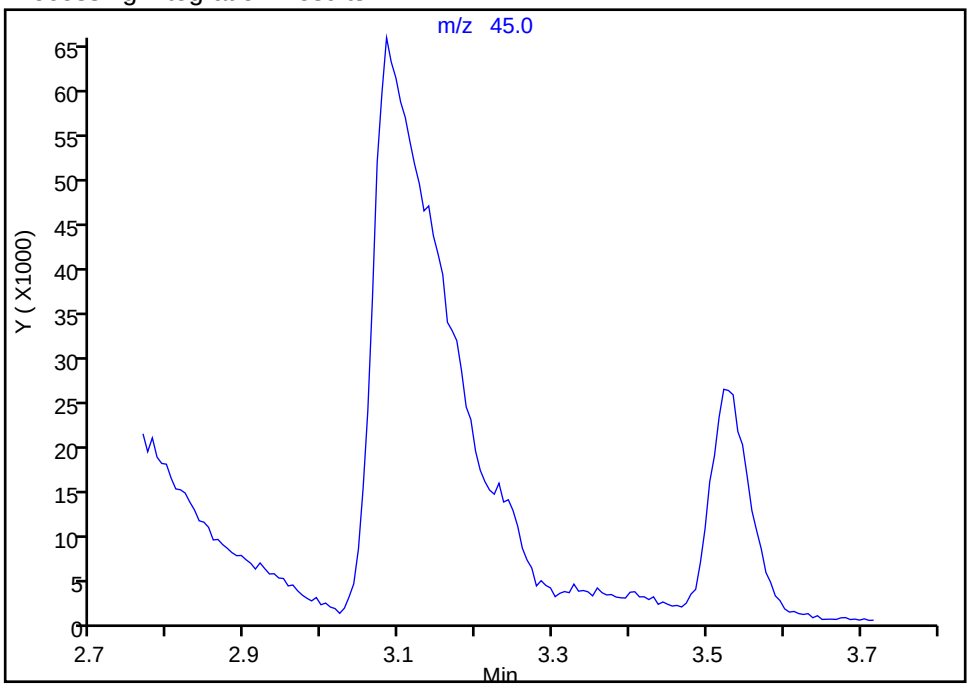
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

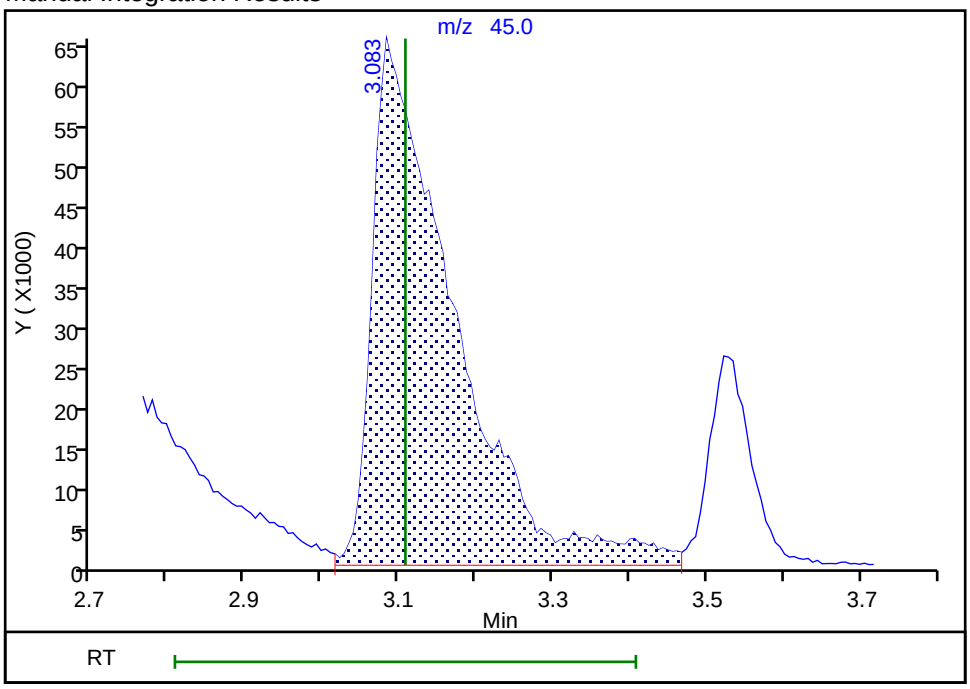
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 478640
Amount: 2143.2320
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:55:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

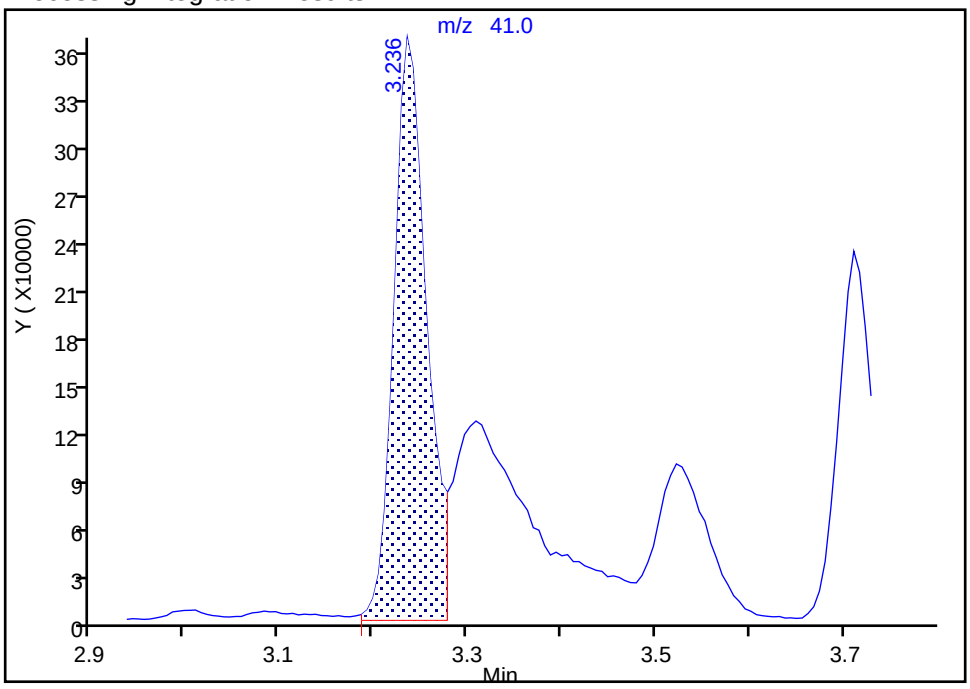
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

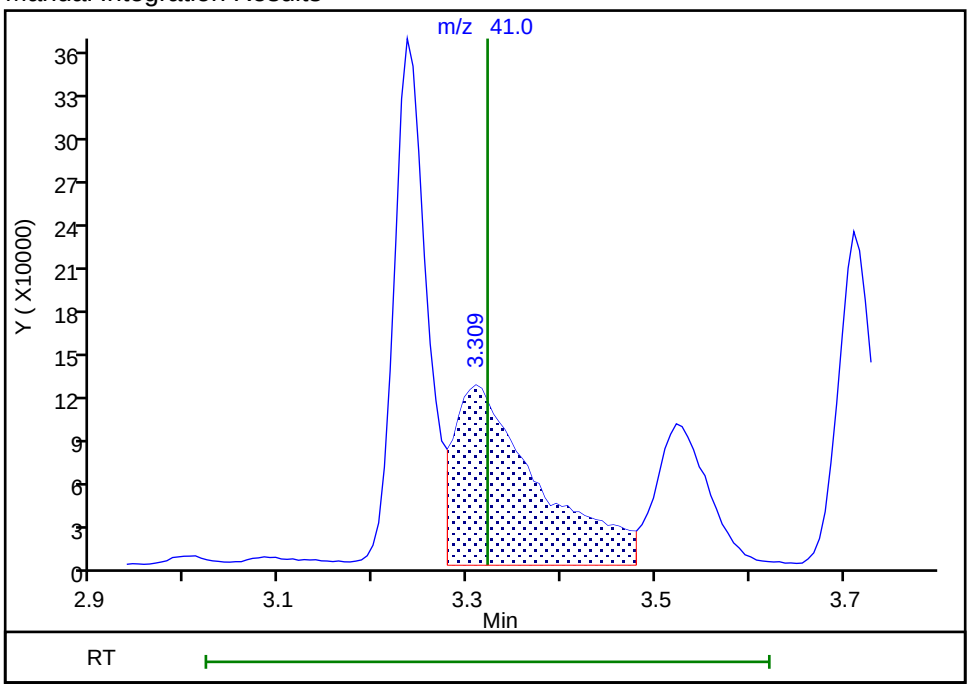
Processing Integration Results

RT: 3.24
Area: 897558
Amount: 2051.1972
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 791685
Amount: 1886.0881
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:56:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Jul-2018 03:48:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074947-008
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:25 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 04:10:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.608	-0.006	86	1581916	500.0	532.8	
2 Dichlorodifluoromethane	85	1.633	1.639	-0.006	99	3377692	500.0	546.4	
3 Chloromethane	50	1.822	1.822	0.000	99	2678351	500.0	526.8	
4 Vinyl chloride	62	1.913	1.913	0.000	98	2776562	500.0	531.9	
5 Butadiene	54	1.919	1.919	0.000	97	2267895	500.0	546.3	
6 Bromomethane	94	2.218	2.218	0.000	99	2295633	500.0	480.9	
7 Chloroethane	64	2.285	2.273	0.012	99	1443523	500.0	512.5	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	98	3643782	500.0	464.7	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	99	3928777	500.0	475.2	
10 Pentane	72	2.486	2.504	-0.018	95	544545	1000.0	985.3	
11 Ethyl ether	59	2.687	2.699	-0.012	93	1156540	500.0	480.0	
13 2-Methyl-1,3-butadiene	53	2.712	2.724	-0.012	96	1337127	500.0	516.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	90	2069978	500.0	508.3	
12 Ethanol	46	2.687	2.754	-0.067	91	320534	20000	21851	
15 Acrolein	56	2.876	2.882	-0.006	97	224402	600.0	590.8	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	1952859	500.0	488.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.018	95	2235757	500.0	508.5	
18 Acetone	43	2.992	3.004	-0.012	86	2274136	2500.0	2242.4	
19 Iodomethane	142	3.071	3.083	-0.012	98	4617815	500.0	479.3	
22 Isopropyl alcohol	45	3.077	3.108	-0.031	96	1302896	5000.0	5310.8	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	6537358	500.0	503.7	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	1202538	500.0	517.3	
23 Methyl acetate	43	3.242	3.254	-0.012	97	1895329	1000.0	1025.7	
24 Cyclopentene	67	3.260	3.266	-0.006	92	3958854	500.0	507.5	
29 Acetonitrile	41	3.303	3.321	-0.018	97	2106672	5000.0	4568.8	a
26 Methylene Chloride	84	3.364	3.370	-0.006	83	2074080	500.0	460.9	
* 25 TBA-d9 (IS)	65	3.352	3.376	-0.024	0	357583	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.419	3.437	-0.018	94	2492265	5000.0	4698.6	
28 Methyl tert-butyl ether	73	3.522	3.529	-0.006	95	5364126	500.0	469.5	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	90	2061170	500.0	476.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	5224689	5000.0	4984.0	
32 Hexane	43	3.711	3.717	-0.006	90	1270133	500.0	519.1	
33 Isopropyl ether	45	3.919	3.925	-0.006	93	4533607	500.0	497.1	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	71	3056763	500.0	480.9	
35 Vinyl acetate	86	3.967	3.974	-0.007	99	671562	1000.0	968.5	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	1754438	500.0	497.4	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	5133710	500.0	480.2	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	248248	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	964832	500.0	476.1	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	2362856	500.0	460.8	
41 Ethyl acetate	70	4.498	4.504	-0.006	95	367753	1000.0	972.7	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	98	1014737	2500.0	2195.9	
44 Methyl acrylate	55	4.559	4.559	0.000	99	1312106	500.0	521.5	
43 Propionitrile	54	4.638	4.644	-0.006	97	2193917	5000.0	4942.5	
45 Tetrahydrofuran	72	4.723	4.723	0.000	86	475618	1000.0	897.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	73	1322454	500.0	458.7	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	6585300	5000.0	5017.7	
48 Chloroform	83	4.778	4.778	0.000	99	3664152	500.0	473.1	
49 Cyclohexane	84	4.925	4.925	0.000	87	2931920	500.0	516.0	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	206030	50.0	48.6	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	97	3582611	500.0	482.8	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	98	3301487	500.0	501.6	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	95	2569628	500.0	488.2	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	259572	12500	12758	a
54 Benzene	78	5.284	5.284	0.000	95	7522135	500.0	466.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	218675	50.0	55.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	5312631	500.0	541.3	
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	93	1860834	500.0	483.5	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	2598734	500.0	471.2	
60 n-Heptane	57	5.424	5.424	0.000	86	1505522	500.0	527.3	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	615992	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	1508710	12500	13936	
63 Trichloroethene	95	5.930	5.930	0.000	95	2223117	500.0	508.3	
65 Methylcyclohexane	83	6.059	6.058	0.000	90	3596894	500.0	500.5	
64 Ethyl acrylate	56	6.059	6.065	-0.007	98	1042735	500.0	470.1	a
66 1,2-Dichloropropane	63	6.223	6.223	0.000	88	1678479	500.0	501.5	
* 67 1,4-Dioxane-d8	96	6.229	6.272	-0.043	0	34504	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	80	2269442	1000.0	1089.4	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	469341	10000	9130.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	2044198	500.0	534.1	
71 Dibromomethane	93	6.357	6.351	0.006	89	1378497	500.0	485.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	2824018	500.0	514.3	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	89	963542	500.0	538.7	
74 2-Nitropropane	41	6.833	6.833	0.000	92	804088	1000.0	1147.0	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	3270235	10000	10023	
76 cis-1,3-Dichloropropene	75	7.010	7.003	0.007	91	3108588	500.0	504.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	7187745	2500.0	2368.9	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	740216	50.0	49.7	
79 Toluene	91	7.333	7.333	0.000	93	8910383	500.0	474.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	2858319	500.0	510.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	83	2198043	500.0	493.0	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	1444634	500.0	500.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	2911873	500.0	471.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	2615165	500.0	493.6	
85 2-Hexanone	43	8.156	8.156	0.000	93	4723504	2500.0	2432.9	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	2083090	500.0	485.6	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	2446176	500.0	536.8	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	1987867	500.0	491.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	561314	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	6383930	500.0	482.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	3389025	500.0	474.0	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	2663401	500.0	485.0	
93 m-Xylene & p-Xylene	106	9.338	9.332	0.006	0	4161018	500.0	473.4	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	1285099	500.0	483.2	
95 o-Xylene	106	9.802	9.802	0.000	95	4319691	500.0	468.1	
96 Styrene	104	9.838	9.832	0.006	96	6963830	500.0	493.3	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	2524491	500.0	526.0	
98 Bromoform	173	10.070	10.070	0.000	98	1637292	500.0	531.5	
99 Isopropylbenzene	105	10.192	10.186	0.006	95	11396490	500.0	476.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	290767	50.0	48.2	
101 Bromobenzene	156	10.552	10.545	0.007	84	3250676	500.0	491.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	2360354	500.0	501.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	12091924	500.0	495.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	735701	500.0	498.5	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	550467	500.0	503.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	10765115	500.0	484.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	8468683	500.0	497.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	9964542	500.0	512.1	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	7275181	500.0	512.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	2894862	500.0	526.1	
111 tert-Butylbenzene	119	11.094	11.088	0.006	94	8734687	500.0	528.0	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	10176278	500.0	500.8	a
113 sec-Butylbenzene	105	11.295	11.295	0.000	98	12624955	500.0	506.5	e
114 4-Isopropyltoluene	119	11.429	11.423	0.006	97	11570143	500.0	496.9	
115 1,3-Dichlorobenzene	146	11.442	11.435	0.007	98	5842995	500.0	465.3	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	93	338998	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	5870913	500.0	462.1	
118 Benzyl chloride	91	11.655	11.655	0.000	100	4948561	500.0	500.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	10530920	500.0	484.8	
120 p-Diethylbenzene	119	11.765	11.759	0.006	94	6303088	500.0	467.8	a
121 n-Butylbenzene	92	11.789	11.783	0.006	97	5376664	500.0	495.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	6064086	500.0	477.2	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	11374803	500.0	487.9	e
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	92	483065	500.0	498.2	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	5298224	500.0	456.1	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	4989907	500.0	451.6	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	2703860	500.0	500.0	
128 Naphthalene	128	13.319	13.319	0.000	99	10757429	500.0	466.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	4868780	500.0	456.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	937.0	
S 131 Xylenes, Total	100				0		1000.0	941.5	
S 132 Total BTEX	1				0		2500.0	2356.1	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	6.00	Units: uL	
GASES Li_00267	Amount Added:	50.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	50.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

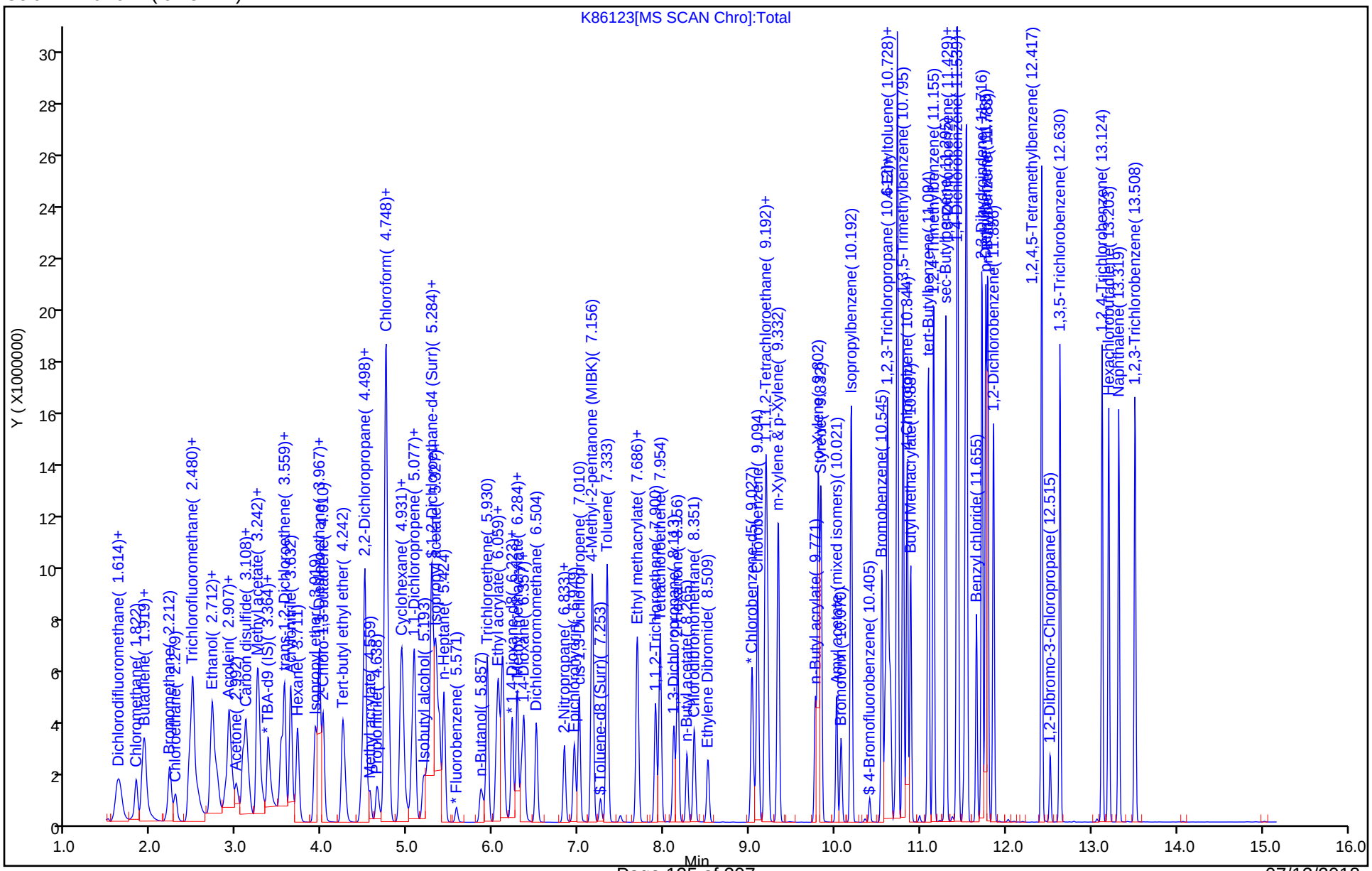
Report Date: 06-Jul-2018 18:59:28 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Injection Date:	06-Jul-2018 03:48:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

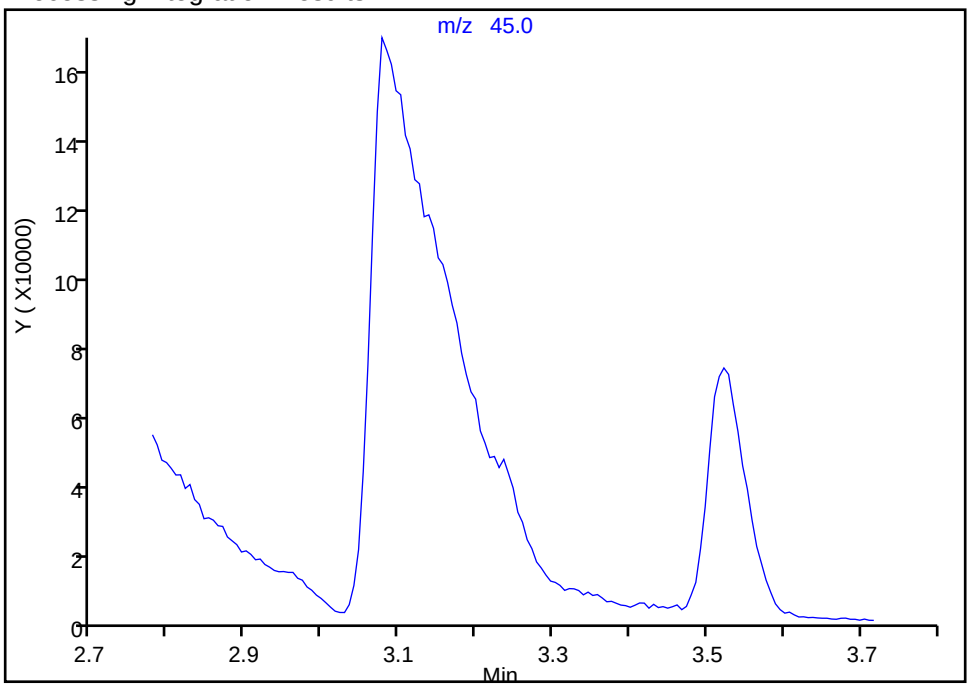
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

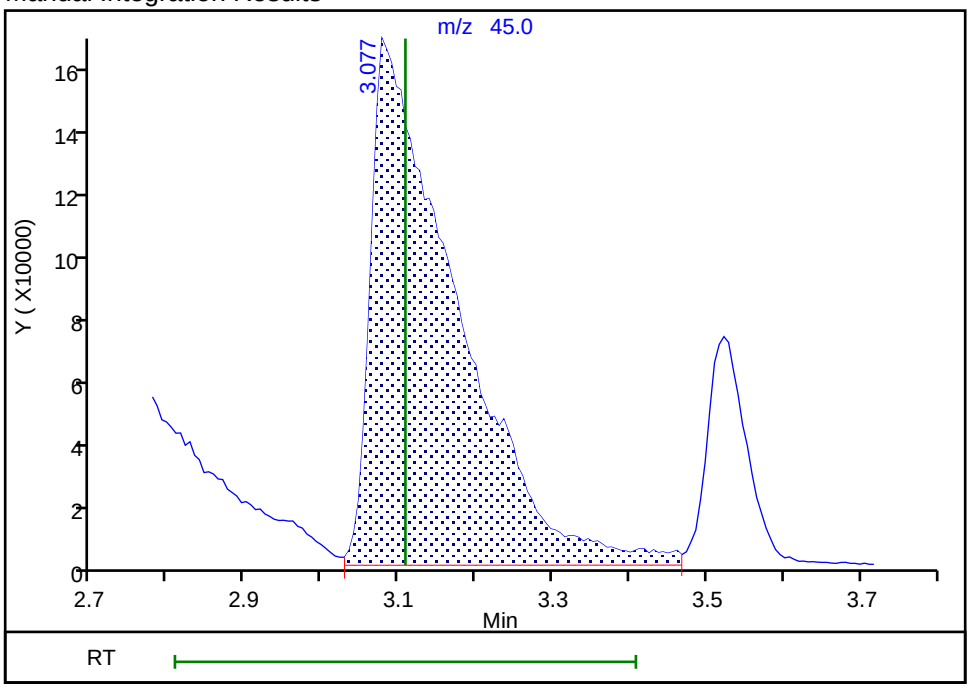
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 1302896
Amount: 5310.8179
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

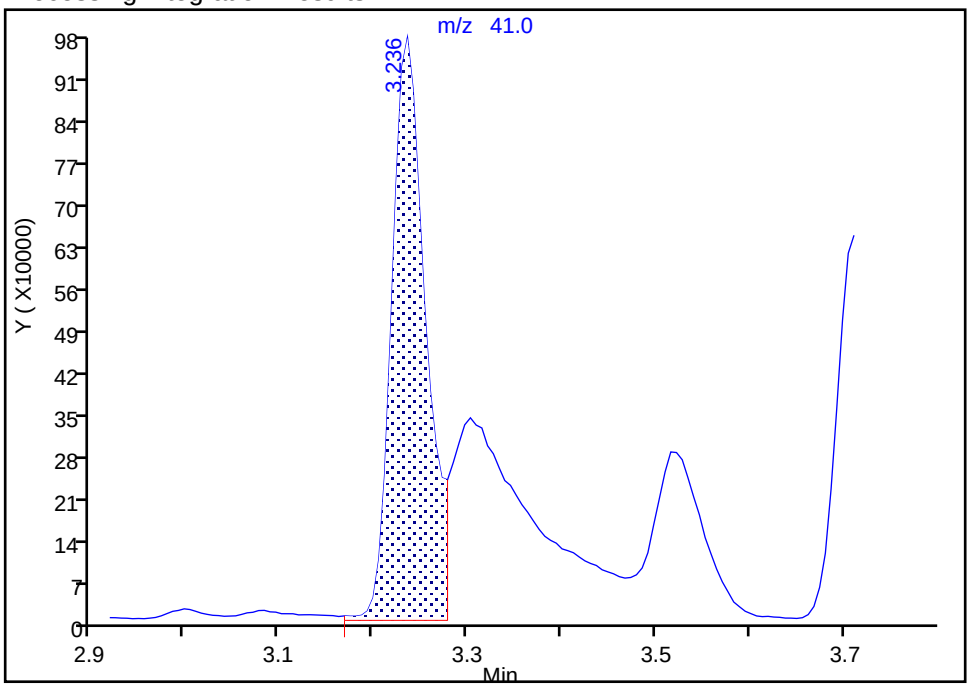
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

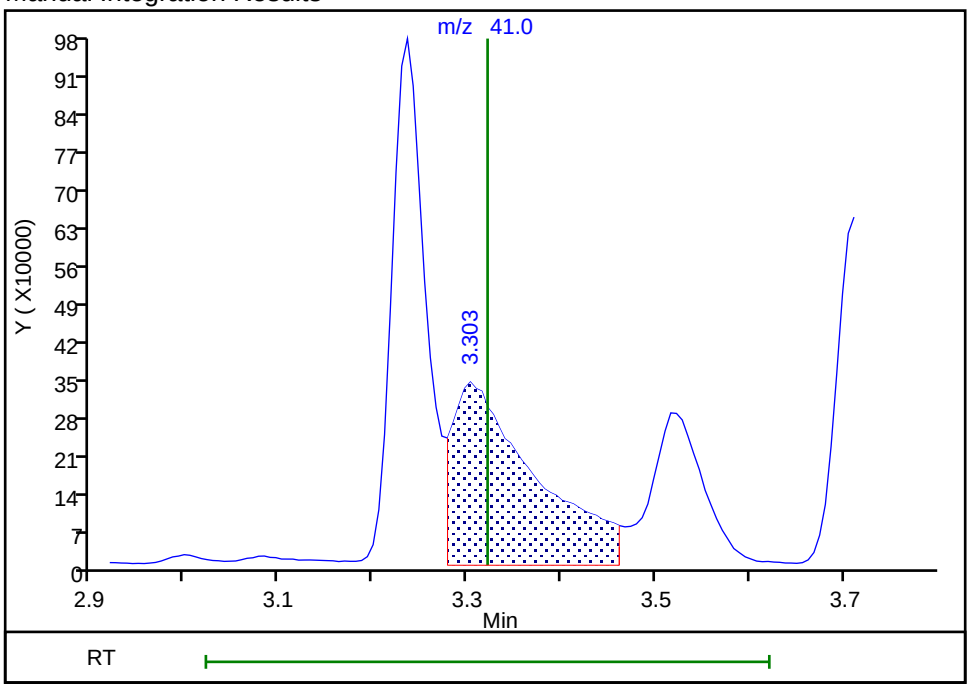
Processing Integration Results

RT: 3.24
Area: 2481153
Amount: 5239.0672
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 2106672
Amount: 4568.7559
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

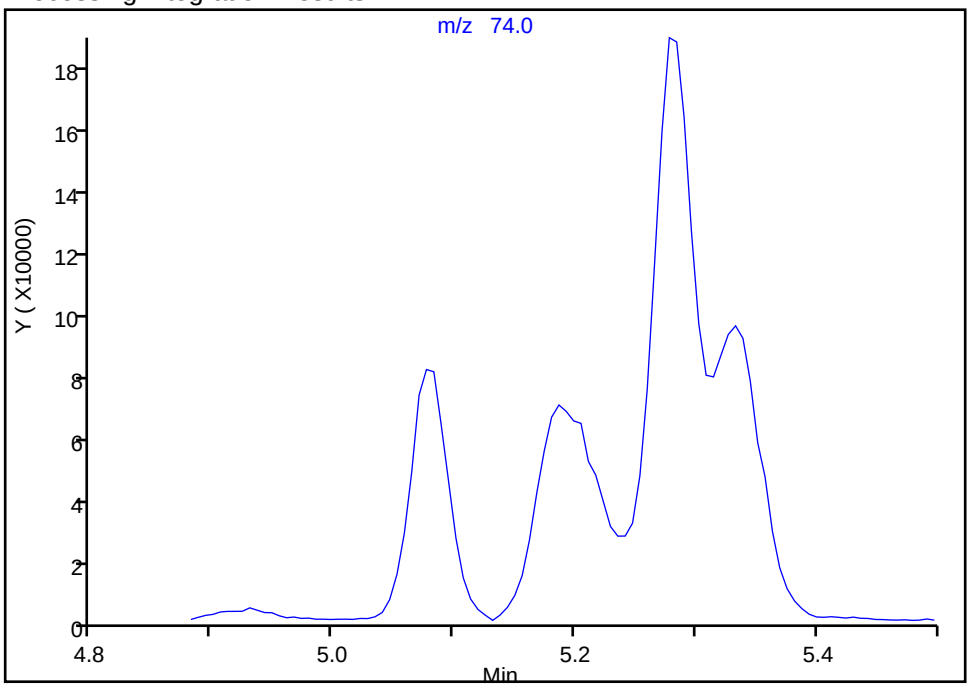
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

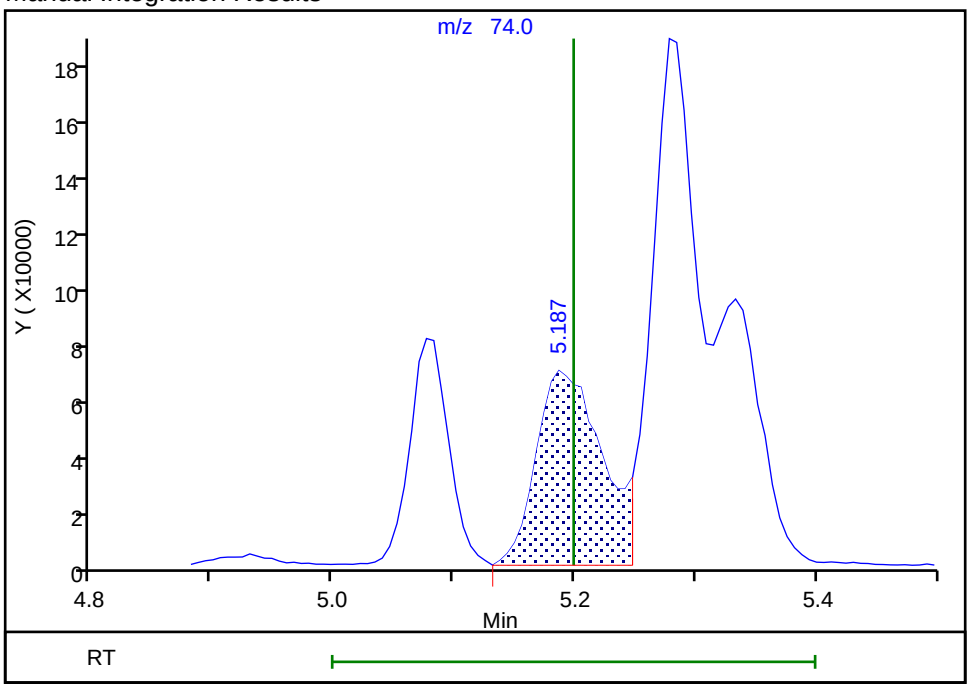
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 259572
Amount: 12758
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

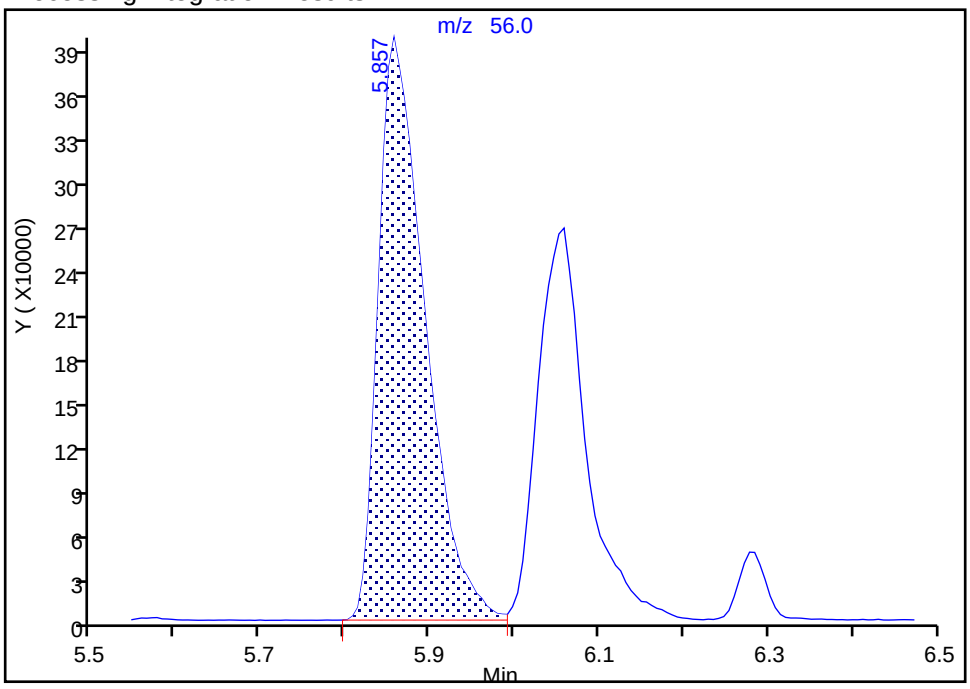
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

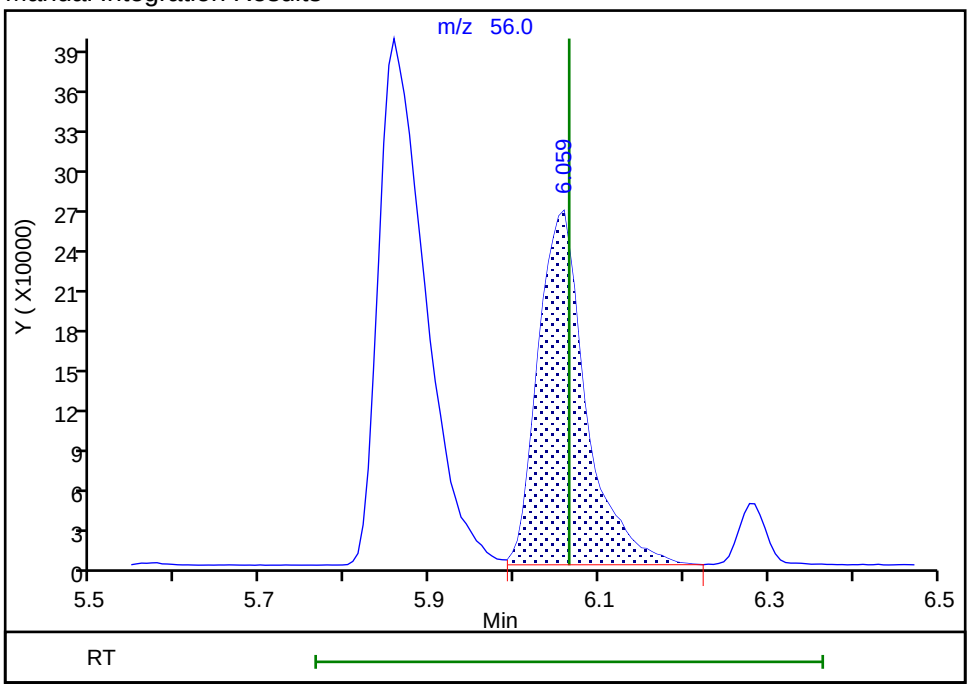
Processing Integration Results

RT: 5.86
Area: 1506483
Amount: 634.9530
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 1042735
Amount: 470.1225
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

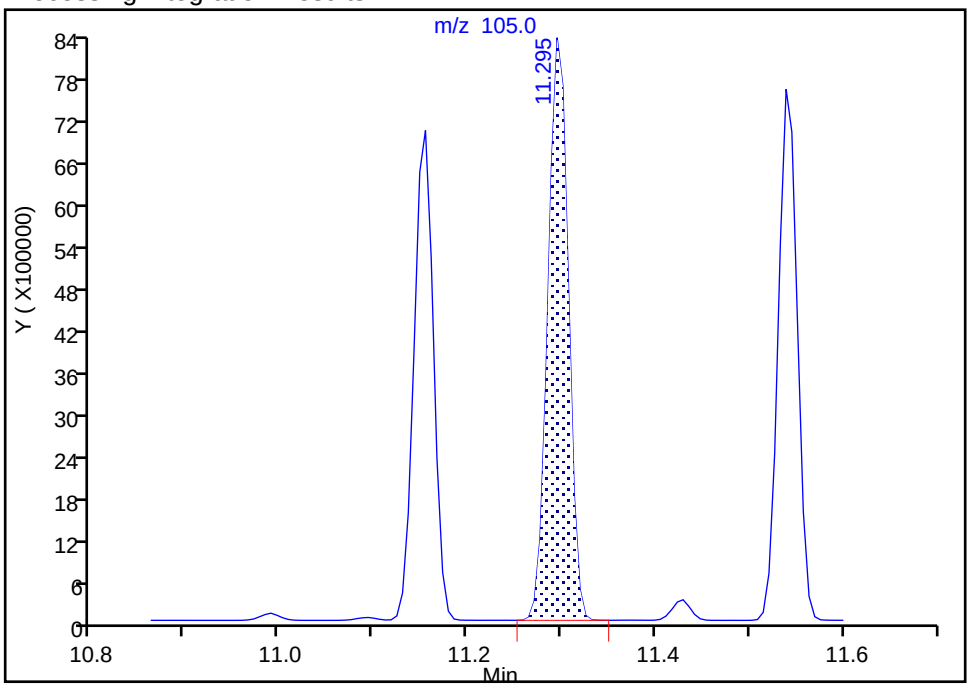
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

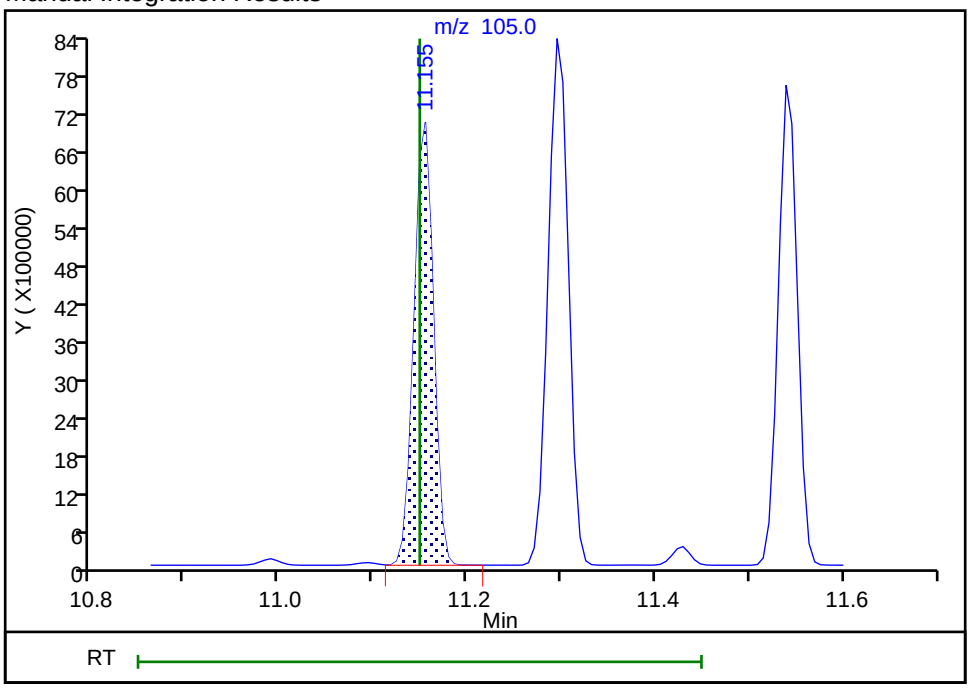
Processing Integration Results

RT: 11.30
Area: 12658181
Amount: 598.5886
Amount Units: ug/l



Manual Integration Results

RT: 11.16
Area: 10176278
Amount: 500.8156
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

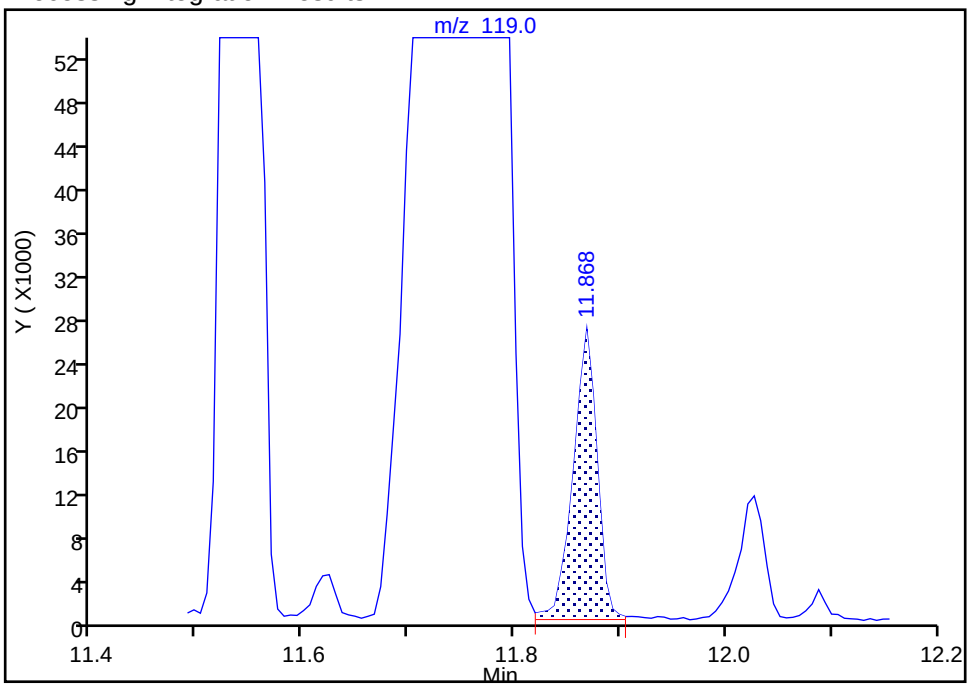
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

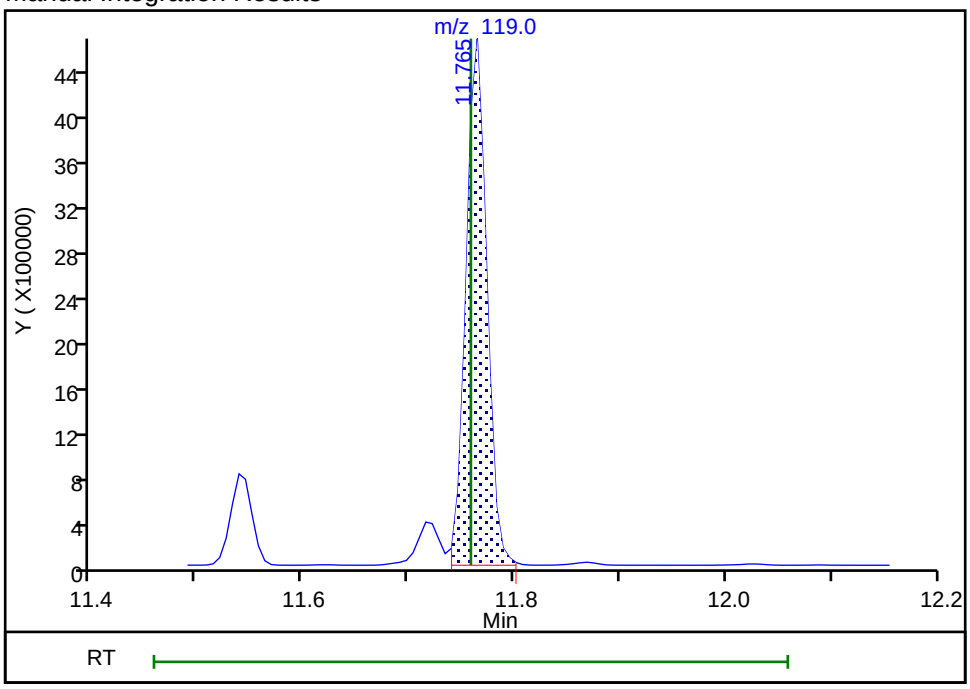
Processing Integration Results

RT: 11.87
Area: 41938
Amount: 6.632357
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 6303088
Amount: 467.7764
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab Sample ID: CCVIS 460-535091/2 Calibration Date: 07/10/2018 20:32

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86386.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2410	0.2188		18.2	20.0	-9.2	20.0
Dichlorodifluoromethane	Ave	0.5018	0.4876	0.1000	19.4	20.0	-2.8	20.0
Chloromethane	Ave	0.4127	0.4616	0.1000	22.4	20.0	11.9	20.0
Vinyl chloride	Ave	0.4237	0.4795	0.1000	22.6	20.0	13.2	20.0
Butadiene	Ave	0.3369	0.3993		23.7	20.0	18.5	20.0
Bromomethane	Ave	0.3874	0.3887	0.1000	20.1	20.0	0.3	50.0
Chloroethane	Ave	0.2286	0.2380	0.1000	20.8	20.0	4.1	50.0
Trichlorofluoromethane	Ave	0.6711	0.7439	0.1000	22.2	20.0	10.8	20.0
Dichlorofluoromethane	Ave	0.6365	0.7491		23.5	20.0	17.7	20.0
Pentane	Ave	1.546	1.434		37.1	40.0	-7.3	20.0
Ethanol	Ave	0.0410	0.0487		950	800	18.7	50.0
Ethyl ether	Ave	0.1956	0.2140		21.9	20.0	9.4	20.0
2-Methyl-1,3-butadiene	Ave	0.2101	0.2551		24.3	20.0	21.4*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3305	0.3765		22.8	20.0	13.9	20.0
Acrolein	Ave	1.062	0.7633		216	300	-28.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	0.3569	0.4082	0.1000	22.9	20.0	14.4	20.0
1,1-Dichloroethene	Ave	0.3248	0.3455	0.1000	21.3	20.0	6.4	20.0
Acetone	Ave	1.021	0.8678	0.0500	85.0	100	-15.0	50.0
Iodomethane	Ave	0.7820	0.7694		19.7	20.0	-1.6	20.0
Isopropyl alcohol	Ave	0.6861	0.6847		200	200	-0.2	50.0
Carbon disulfide	Ave	1.053	1.142	0.1000	21.7	20.0	8.4	50.0
Allyl chloride	Ave	0.1887	0.1980		21.0	20.0	4.9	20.0
Methyl acetate	Ave	5.167	5.066	0.1000	39.2	40.0	-2.0	20.0
Cyclopentene	Ave	0.6331	0.7711		24.4	20.0	21.8*	20.0
Acetonitrile	Ave	1.290	1.255		195	200	-2.7	20.0
Methylene Chloride	Ave	0.3653	0.3648	0.1000	20.0	20.0	-0.1	20.0
2-Methyl-2-propanol	Ave	1.483	1.286		173	200	-13.3	50.0
Methyl tert-butyl ether	Ave	0.9275	0.9126	0.1000	19.7	20.0	-1.6	20.0
trans-1,2-Dichloroethene	Ave	0.3514	0.3724	0.1000	21.2	20.0	6.0	20.0
Acrylonitrile	Ave	0.0851	0.1002		236	200	17.8	20.0
Hexane	Ave	0.1986	0.2541		25.6	20.0	27.9*	20.0
Isopropyl ether	Ave	0.7403	0.8802		23.8	20.0	18.9	20.0
1,1-Dichloroethane	Ave	0.5159	0.5666	0.2000	22.0	20.0	9.8	20.0
Vinyl acetate	Ave	1.939	1.474		30.4	40.0	-24.0*	20.0
2-Chloro-1,3-butadiene	Ave	0.2863	0.3165		22.1	20.0	10.6	20.0
Tert-butyl ethyl ether	Ave	0.8678	0.8935		20.6	20.0	3.0	20.0
2,2-Dichloropropane	Ave	0.1645	0.1744		21.2	20.0	6.0	20.0
cis-1,2-Dichloroethene	Ave	0.4162	0.4102	0.1000	19.7	20.0	-1.5	20.0
2-Butanone (MEK)	Ave	0.4654	0.3714	0.0500	79.8	100	-20.2	50.0
Ethyl acetate	Qua2		0.3221		34.3	40.0	-14.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab Sample ID: CCVIS 460-535091/2 Calibration Date: 07/10/2018 20:32

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86386.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2042	0.2256		22.1	20.0	10.5	20.0
Propionitrile	Ave	1.241	1.087		175	200	-12.4	20.0
Tetrahydrofuran	Ave	0.5339	0.4449		33.3	40.0	-16.7	20.0
Chlorobromomethane	Ave	0.2340	0.2210		18.9	20.0	-5.6	20.0
Methacrylonitrile	Ave	0.1065	0.1170		220	200	9.9	20.0
Chloroform	Ave	0.6286	0.6248	0.2000	19.9	20.0	-0.6	20.0
Cyclohexane	Ave	0.4612	0.5096	0.1000	22.1	20.0	10.5	50.0
1,1,1-Trichloroethane	Ave	0.6023	0.5885	0.1000	19.5	20.0	-2.3	20.0
Carbon tetrachloride	Ave	0.5343	0.5347	0.1000	20.0	20.0	0.0	20.0
1,1-Dichloropropene	Ave	0.4272	0.4562		21.4	20.0	6.8	20.0
Isobutyl alcohol	Ave	0.0569	0.0475		417	500	-16.6	50.0
Benzene	Ave	1.438	1.497	0.5000	20.8	20.0	4.1	20.0
Isopropyl acetate	Ave	0.7967	0.8670		21.8	20.0	8.8	20.0
Tert-amyl methyl ether	Ave	0.3124	0.3008		19.3	20.0	-3.7	20.0
1,2-Dichloroethane	Ave	0.4476	0.3996	0.1000	17.9	20.0	-10.7	20.0
n-Heptane	Ave	0.2317	0.2777		24.0	20.0	19.8	20.0
n-Butanol	Ave	0.3028	0.2639		436	500	-12.8	50.0
Trichloroethene	Ave	0.3550	0.3660	0.2000	20.6	20.0	3.1	20.0
Ethyl acrylate	Ave	0.1800	0.1888		21.0	20.0	4.9	20.0
Methylcyclohexane	Ave	0.5834	0.6505	0.1000	22.3	20.0	11.5	50.0
1,2-Dichloropropane	Ave	0.2717	0.2943	0.1000	21.7	20.0	8.3	20.0
Methyl methacrylate	Ave	0.1691	0.1829		43.3	40.0	8.2	20.0
n-Propyl acetate	Ave	0.3107	0.3537		22.8	20.0	13.9	20.0
1,4-Dioxane	Ave	1.490	1.359		365	400	-8.8	50.0
Dibromomethane	Ave	0.2306	0.2166		18.8	20.0	-6.1	20.0
Bromodichloromethane	Ave	0.4457	0.4156	0.2000	18.6	20.0	-6.8	20.0
2-Chloroethyl vinyl ether	Ave	0.1452	0.1527		21.0	20.0	5.2	20.0
2-Nitropropane	Ave	0.0569	0.0475		33.4	40.0	-16.5	20.0
Epichlorohydrin	Ave	0.3286	0.2821		343	400	-14.1	20.0
cis-1,3-Dichloropropene	Ave	0.5487	0.5455	0.2000	19.9	20.0	-0.6	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.056	2.808	0.0500	91.9	100	-8.1	50.0
Toluene	Ave	1.672	1.658	0.4000	19.8	20.0	-0.9	20.0
trans-1,3-Dichloropropene	Ave	0.4988	0.4689	0.1000	18.8	20.0	-6.0	50.0
Ethyl methacrylate	Ave	0.3971	0.4022		20.3	20.0	1.3	20.0
1,1,2-Trichloroethane	Ave	0.2573	0.2663	0.1000	20.7	20.0	3.5	20.0
Tetrachloroethene	Ave	0.5497	0.5200	0.2000	18.9	20.0	-5.4	20.0
1,3-Dichloropropane	Ave	0.4719	0.4678		19.8	20.0	-0.9	20.0
2-Hexanone	Ave	1.955	1.763	0.0500	90.2	100	-9.8	50.0
n-Butyl acetate	Ave	0.3821	0.4355		22.8	20.0	14.0	20.0
Dibromochloromethane	Ave	0.4059	0.3600	0.1000	17.7	20.0	-11.3	50.0
1,2-Dibromoethane	Ave	0.3606	0.3387	0.1000	18.8	20.0	-6.1	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Lab Sample ID: CCVIS 460-535091/2 Calibration Date: 07/10/2018 20:32

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86386.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.178	1.147	0.5000	19.5	20.0	-2.6	20.0
Ethylbenzene	Ave	0.6370	0.6345	0.1000	19.9	20.0	-0.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4892	0.4373		17.9	20.0	-10.6	20.0
m-Xylene & p-Xylene	Ave	0.7829	0.7686	0.1000	19.6	20.0	-1.8	20.0
n-Butyl acrylate	Ave	0.2369	0.2516		21.2	20.0	6.2	20.0
o-Xylene	Ave	0.8220	0.7946	0.3000	19.3	20.0	-3.3	20.0
Styrene	Ave	1.258	1.246	0.3000	19.8	20.0	-0.9	20.0
Bromoform	Ave	0.2744	0.2235	0.1000	16.3	20.0	-18.5	20.0
Isopropylbenzene	Ave	2.133	2.130	0.1000	20.0	20.0	-0.1	20.0
Bromobenzene	Ave	0.9751	0.9109		18.7	20.0	-6.6	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6941	0.7348	0.3000	21.2	20.0	5.9	20.0
N-Propylbenzene	Ave	3.602	3.818		21.2	20.0	6.0	20.0
1,2,3-Trichloropropane	Ave	0.2177	0.2138		19.6	20.0	-1.8	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1613	0.1591		19.7	20.0	-1.4	20.0
2-Chlorotoluene	Ave	2.510	2.548		20.3	20.0	1.5	20.0
4-Ethyltoluene	Ave	3.277	3.382		20.6	20.0	3.2	20.0
1,3,5-Trimethylbenzene	Ave	2.870	2.820		19.6	20.0	-1.8	20.0
4-Chlorotoluene	Ave	2.096	2.178		20.8	20.0	3.9	20.0
Butyl Methacrylate	Ave	0.8115	0.8186		20.2	20.0	0.9	20.0
tert-Butylbenzene	Ave	2.440	2.374		19.5	20.0	-2.7	20.0
1,2,4-Trimethylbenzene	Ave	2.997	2.934		19.6	20.0	-2.1	20.0
sec-Butylbenzene	Ave	3.676	3.797		20.7	20.0	3.3	20.0
4-Isopropyltoluene	Ave	3.434	3.409		19.9	20.0	-0.7	20.0
1,3-Dichlorobenzene	Ave	1.852	1.785	0.6000	19.3	20.0	-3.6	20.0
1,4-Dichlorobenzene	Ave	1.874	1.761	0.5000	18.8	20.0	-6.1	20.0
Benzyl chloride	Ave	1.459	1.480		20.3	20.0	1.5	50.0
Indan	Ave	3.204	3.095		19.3	20.0	-3.4	20.0
p-Diethylbenzene	Ave	1.987	2.019		20.3	20.0	1.6	20.0
n-Butylbenzene	Ave	1.601	1.734		21.7	20.0	8.4	20.0
1,2-Dichlorobenzene	Ave	1.874	1.777	0.4000	19.0	20.0	-5.2	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.438	3.247		18.9	20.0	-5.6	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1430	0.1320	0.0500	18.5	20.0	-7.7	50.0
1,3,5-Trichlorobenzene	Ave	1.713	1.628		19.0	20.0	-4.9	20.0
1,2,4-Trichlorobenzene	Ave	1.630	1.492	0.2000	18.3	20.0	-8.5	20.0
Hexachlorobutadiene	Ave	0.7975	0.7586		19.0	20.0	-4.9	20.0
Naphthalene	Ave	3.400	3.243		19.1	20.0	-4.6	50.0
1,2,3-Trichlorobenzene	Ave	1.573	1.463		18.6	20.0	-7.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3441	0.3604		52.4	50.0	4.8	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3197	0.3154		49.3	50.0	-1.4	20.0
Toluene-d8 (Surr)	Ave	1.328	1.388		52.3	50.0	4.5	20.0
4-Bromofluorobenzene	Ave	0.5371	0.5300		49.3	50.0	-1.3	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 10-Jul-2018 20:32:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075214-002
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 08:50:52 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: maheseep Date: 11-Jul-2018 15:17:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	87	54057	20.0	18.2	
2 Dichlorodifluoromethane	85	1.626	1.626	0.000	99	120453	20.0	19.4	a
3 Chloromethane	50	1.822	1.822	0.000	99	114036	20.0	22.4	
4 Vinyl chloride	62	1.913	1.913	0.000	98	118449	20.0	22.6	
5 Butadiene	54	1.943	1.943	0.000	93	98641	20.0	23.7	
6 Bromomethane	94	2.218	2.218	0.000	99	96005	20.0	20.1	
7 Chloroethane	64	2.285	2.285	0.000	100	58788	20.0	20.8	
9 Dichlorofluoromethane	67	2.468	2.468	0.000	97	185047	20.0	23.5	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	73	183752	20.0	22.2	
10 Pentane	72	2.498	2.498	0.000	95	26461	40.0	37.1	
12 Ethanol	46	2.699	2.699	0.000	67	17978	800.0	949.7	
11 Ethyl ether	59	2.706	2.706	0.000	96	52867	20.0	21.9	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	96	63015	20.0	24.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	94	92993	20.0	22.8	
15 Acrolein	56	2.882	2.882	0.000	97	105668	300.0	215.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.913	2.913	0.000	86	100832	20.0	22.9	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	85356	20.0	21.3	
18 Acetone	43	3.010	3.010	0.000	89	102537	100.0	85.0	
19 Iodomethane	142	3.083	3.083	0.000	98	190050	20.0	19.7	
20 Carbon disulfide	76	3.120	3.120	0.000	99	282095	20.0	21.7	
22 Isopropyl alcohol	45	3.114	3.114	0.000	28	63188	200.0	199.6	a
21 3-Chloro-1-propene	76	3.242	3.242	0.000	88	48903	20.0	21.0	
23 Methyl acetate	43	3.248	3.248	0.000	89	93508	40.0	39.2	
24 Cyclopentene	67	3.266	3.266	0.000	89	190479	20.0	24.4	
29 Acetonitrile	41	3.321	3.321	0.000	95	115816	200.0	194.6	a
* 25 TBA-d9 (IS)	65	3.364	3.364	0.000	0	461465	1000.0	1000.0	
26 Methylene Chloride	84	3.376	3.376	0.000	85	90123	20.0	20.0	
27 2-Methyl-2-propanol	59	3.449	3.449	0.000	93	118645	200.0	173.3	
28 Methyl tert-butyl ether	73	3.535	3.535	0.000	95	225436	20.0	19.7	
30 trans-1,2-Dichloroethene	96	3.571	3.571	0.000	91	92000	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	94	247586	200.0	235.6	
32 Hexane	43	3.724	3.724	0.000	91	62756	20.0	25.6	a
33 Isopropyl ether	45	3.931	3.931	0.000	94	217418	20.0	23.8	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	74	139960	20.0	22.0	
35 Vinyl acetate	86	3.974	3.974	0.000	100	27211	40.0	30.4	
36 2-Chloro-1,3-butadiene	88	4.022	4.022	0.000	90	78184	20.0	22.1	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	220705	20.0	20.6	
* 38 2-Butanone-d5	46	4.455	4.455	0.000	0	295409	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.480	0.000	87	43071	20.0	21.2	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	97	101324	20.0	19.7	
41 Ethyl acetate	70	4.510	4.510	0.000	92	15225	40.0	34.3	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	97	43884	100.0	79.8	
44 Methyl acrylate	55	4.571	4.571	0.000	97	55720	20.0	22.1	
43 Propionitrile	54	4.650	4.650	0.000	97	100352	200.0	175.2	
45 Tetrahydrofuran	72	4.730	4.730	0.000	61	21028	40.0	33.3	
46 Chlorobromomethane	128	4.736	4.736	0.000	76	54586	20.0	18.9	
47 Methacrylonitrile	67	4.748	4.748	0.000	90	289080	200.0	219.7	
48 Chloroform	83	4.784	4.784	0.000	99	154341	20.0	19.9	
49 Cyclohexane	84	4.925	4.925	0.000	89	125879	20.0	22.1	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	97	222575	50.0	52.4	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	145372	20.0	19.5	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	132091	20.0	20.0	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	97	112690	20.0	21.4	
56 Isobutyl alcohol	74	5.199	5.199	0.000	94	10951	500.0	417.1	a
54 Benzene	78	5.284	5.284	0.000	94	317794	20.0	20.8	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.303	5.303	0.000	0	194748	50.0	49.3	
57 Isopropyl acetate	43	5.327	5.327	0.000	96	214162	20.0	21.8	
58 Tert-amyl methyl ether	87	5.333	5.333	0.000	96	74306	20.0	19.3	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	97	98701	20.0	17.9	
60 n-Heptane	57	5.431	5.431	0.000	89	68593	20.0	24.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	617555	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	60890	500.0	435.8	
63 Trichloroethene	95	5.937	5.937	0.000	94	90419	20.0	20.6	
64 Ethyl acrylate	56	6.065	6.065	0.000	98	46637	20.0	21.0	
65 Methylcyclohexane	83	6.065	6.065	0.000	92	160681	20.0	22.3	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	93	72702	20.0	21.7	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	39957	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.284	0.000	82	90380	40.0	43.3	
70 n-Propyl acetate	43	6.333	6.333	0.000	98	87381	20.0	22.8	
69 1,4-Dioxane	88	6.357	6.357	0.000	29	21722	400.0	364.9	a
71 Dibromomethane	93	6.363	6.363	0.000	92	53503	20.0	18.8	
72 Dichlorobromomethane	83	6.510	6.510	0.000	98	102658	20.0	18.6	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	83	37731	20.0	21.0	
74 2-Nitropropane	41	6.839	6.839	0.000	82	23477	40.0	33.4	
75 Epichlorohydrin	57	6.949	6.949	0.000	99	133339	400.0	343.4	
76 cis-1,3-Dichloropropene	75	7.010	7.010	0.000	90	115805	20.0	19.9	
77 4-Methyl-2-pentanone (MIBK	43	7.162	7.162	0.000	95	331834	100.0	91.9	
$ 78 Toluene-d8 (Surr)	98	7.260	7.260	0.000	99	736764	50.0	52.3	
79 Toluene	91	7.333	7.333	0.000	93	351893	20.0	19.8	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	99536	20.0	18.8	
81 Ethyl methacrylate	69	7.698	7.698	0.000	87	85386	20.0	20.3	
82 1,1,2-Trichloroethane	83	7.906	7.906	0.000	95	56522	20.0	20.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	110386	20.0	18.9	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	86	99304	20.0	19.8	
85 2-Hexanone	43	8.162	8.162	0.000	94	208351	100.0	90.2	
86 n-Butyl acetate	43	8.272	8.272	0.000	99	92442	20.0	22.8	
87 Chlorodibromomethane	129	8.357	8.357	0.000	97	76417	20.0	17.7	
88 Ethylene Dibromide	107	8.515	8.515	0.000	99	71905	20.0	18.8	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	530686	50.0	50.0	
90 Chlorobenzene	112	9.095	9.095	0.000	98	243500	20.0	19.5	
92 Ethylbenzene	106	9.192	9.192	0.000	97	134689	20.0	19.9	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	95	92834	20.0	17.9	
93 m-Xylene & p-Xylene	106	9.338	9.338	0.000	0	163154	20.0	19.6	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	53401	20.0	21.2	
95 o-Xylene	106	9.802	9.802	0.000	95	168663	20.0	19.3	
96 Styrene	104	9.838	9.838	0.000	98	264569	20.0	19.8	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	109172	20.0	23.1	
98 Bromoform	173	10.076	10.076	0.000	98	47452	20.0	16.3	
99 Isopropylbenzene	105	10.192	10.192	0.000	95	452183	20.0	20.0	
$ 100 4-Bromofluorobenzene	174	10.411	10.411	0.000	97	281239	50.0	49.3	
101 Bromobenzene	156	10.552	10.552	0.000	85	121754	20.0	18.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	98216	20.0	21.2	
103 N-Propylbenzene	91	10.613	10.613	0.000	100	510385	20.0	21.2	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	28579	20.0	19.6	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	93	21261	20.0	19.7	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	340579	20.0	20.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	452071	20.0	20.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	376890	20.0	19.6	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	291070	20.0	20.8	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	109413	20.0	20.2	
111 tert-Butylbenzene	119	11.094	11.094	0.000	96	317326	20.0	19.5	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	96	392143	20.0	19.6	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	507524	20.0	20.7	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	98	455679	20.0	19.9	
115 1,3-Dichlorobenzene	146	11.442	11.442	0.000	99	238531	20.0	19.3	
* 116 1,4-Dichlorobenzene-d4	152	11.509	11.509	0.000	92	334162	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	235325	20.0	18.8	
118 Benzyl chloride	91	11.655	11.655	0.000	99	197856	20.0	20.3	a
119 2,3-Dihydroindene	117	11.722	11.722	0.000	94	413662	20.0	19.3	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	269804	20.0	20.3	
121 n-Butylbenzene	92	11.789	11.789	0.000	97	231838	20.0	21.7	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	237513	20.0	19.0	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	433983	20.0	18.9	
124 1,2-Dibromo-3-Chloropropan	75	12.521	12.521	0.000	90	17637	20.0	18.5	
125 1,3,5-Trichlorobenzene	180	12.637	12.637	0.000	97	217667	20.0	19.0	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	199372	20.0	18.3	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	101402	20.0	19.0	
128 Naphthalene	128	13.325	13.325	0.000	99	433461	20.0	19.1	
129 1,2,3-Trichlorobenzene	180	13.514	13.514	0.000	96	195568	20.0	18.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.9	
S 131 Xylenes, Total	100				0		40.0	39.0	
S 132 Total BTEX	1				0		100.0	99.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 08:50:54 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D

Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9 Operator ID:

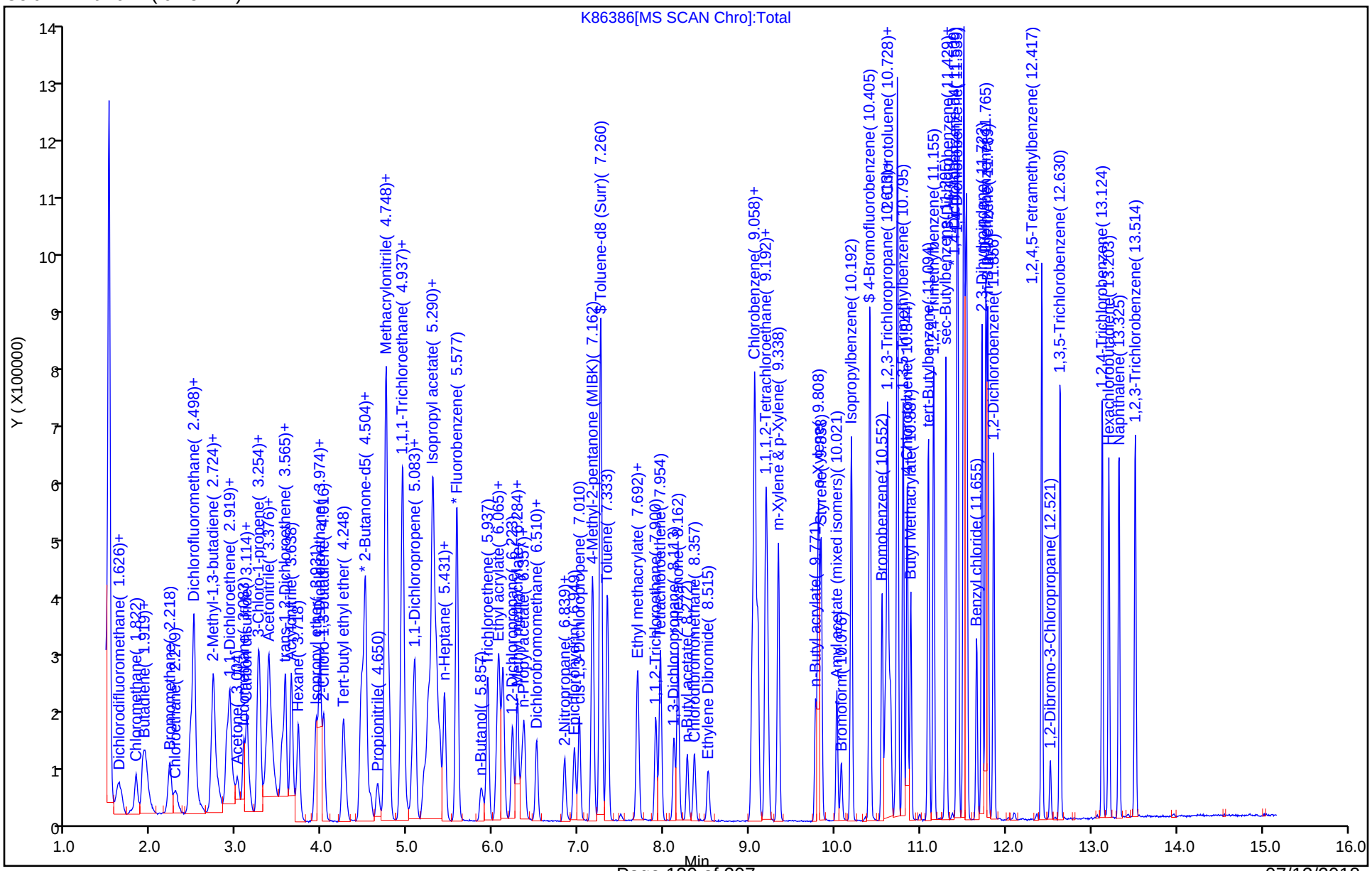
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

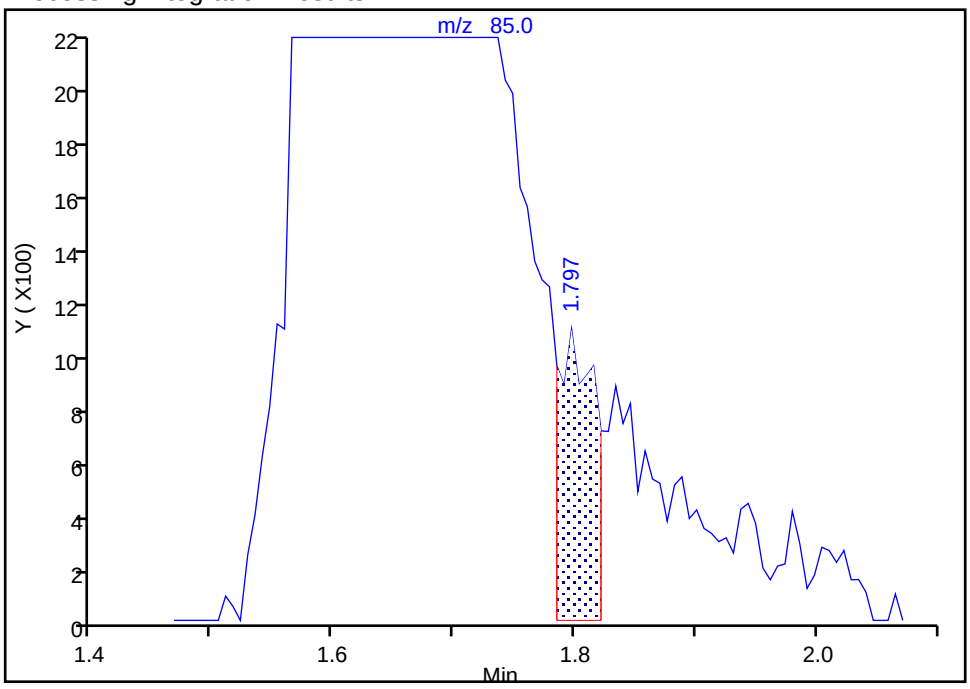
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

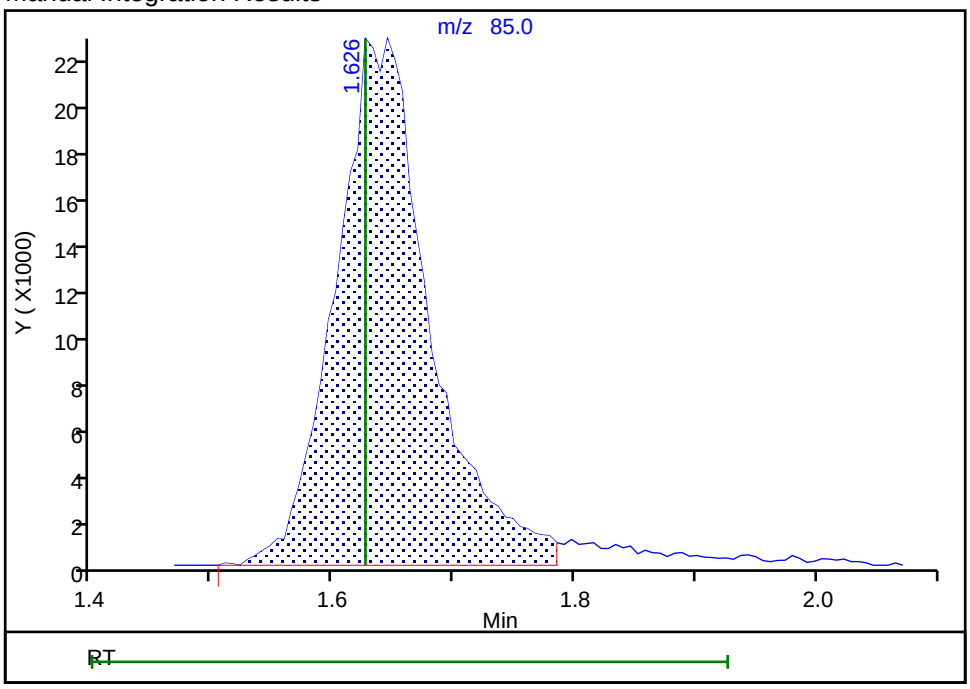
Processing Integration Results

RT: 1.80
Area: 2320
Amount: 0.374339
Amount Units: ug/l



Manual Integration Results

RT: 1.63
Area: 120453
Amount: 19.435461
Amount Units: ug/l



Reviewer: colladox, 10-Jul-2018 20:56:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

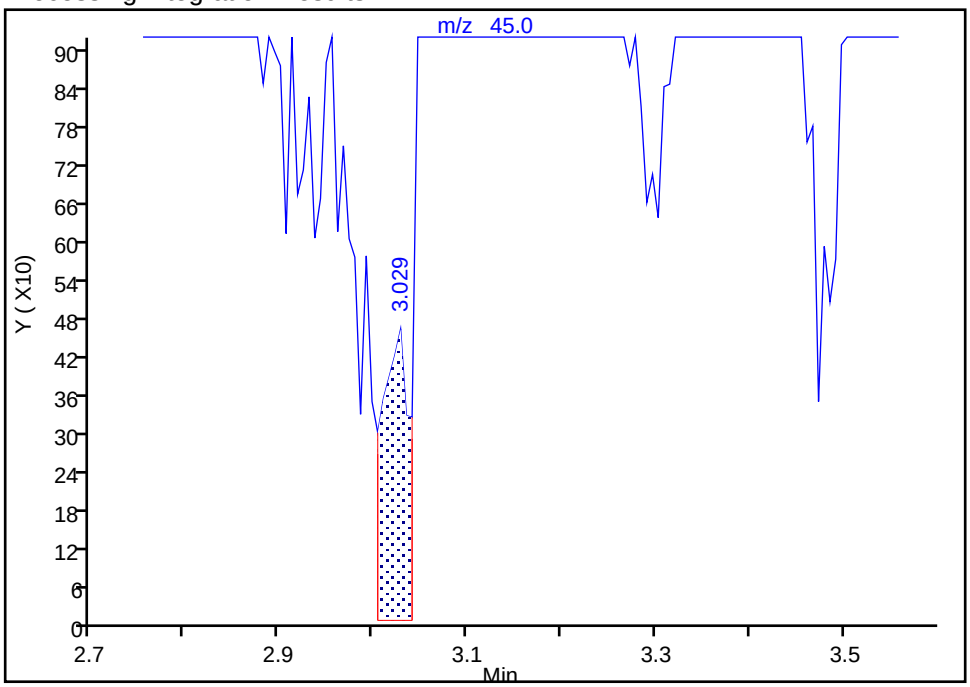
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

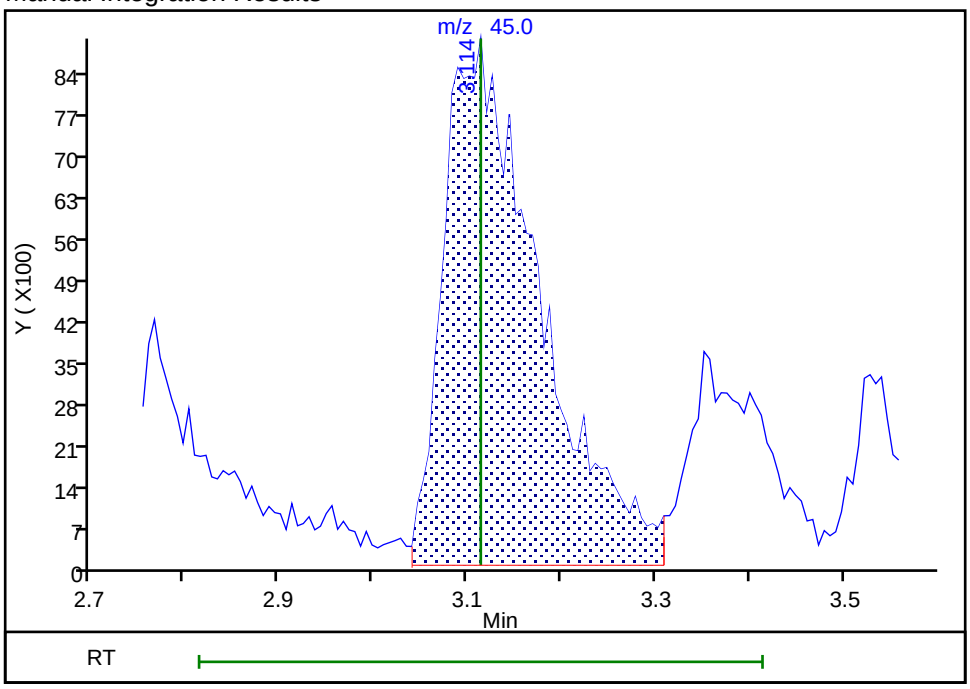
Processing Integration Results

RT: 3.03
Area: 930
Amount: 2.937465
Amount Units: ug/l



Manual Integration Results

RT: 3.11
Area: 63188
Amount: 199.5834
Amount Units: ug/l



Reviewer: maheseep, 11-Jul-2018 15:13:00
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

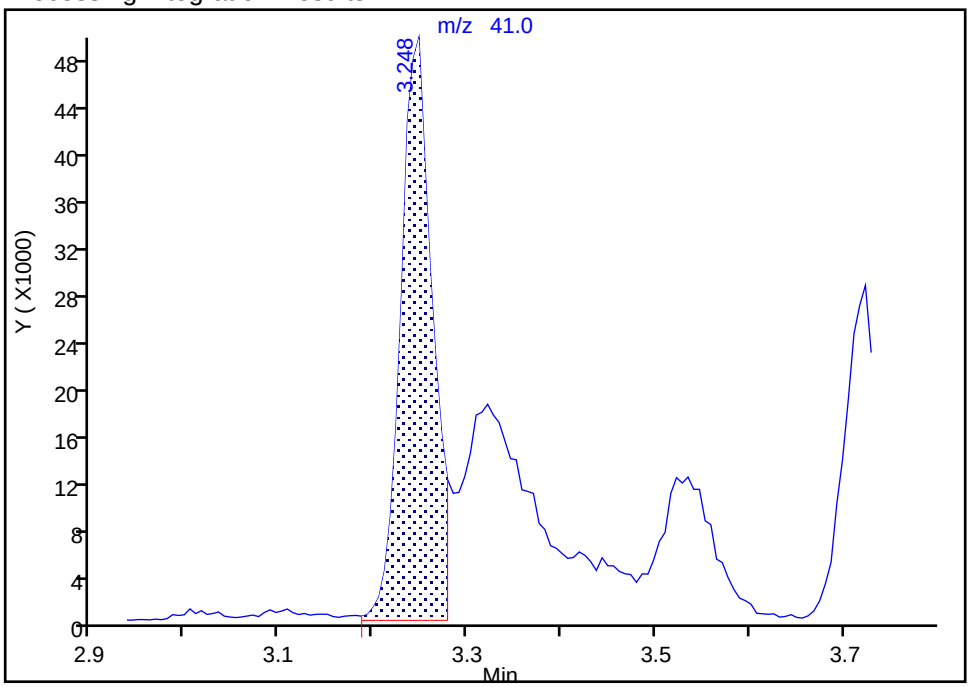
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

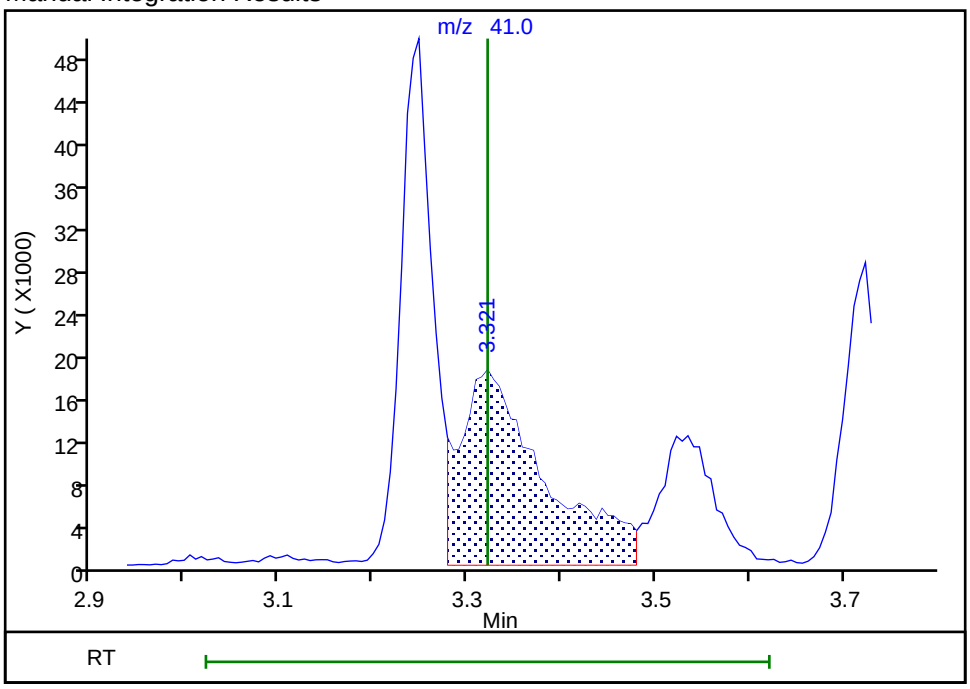
Processing Integration Results

RT: 3.25
Area: 116378
Amount: 195.5735
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 115816
Amount: 194.6291
Amount Units: ug/l



Reviewer: maheseep, 11-Jul-2018 15:14:15
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

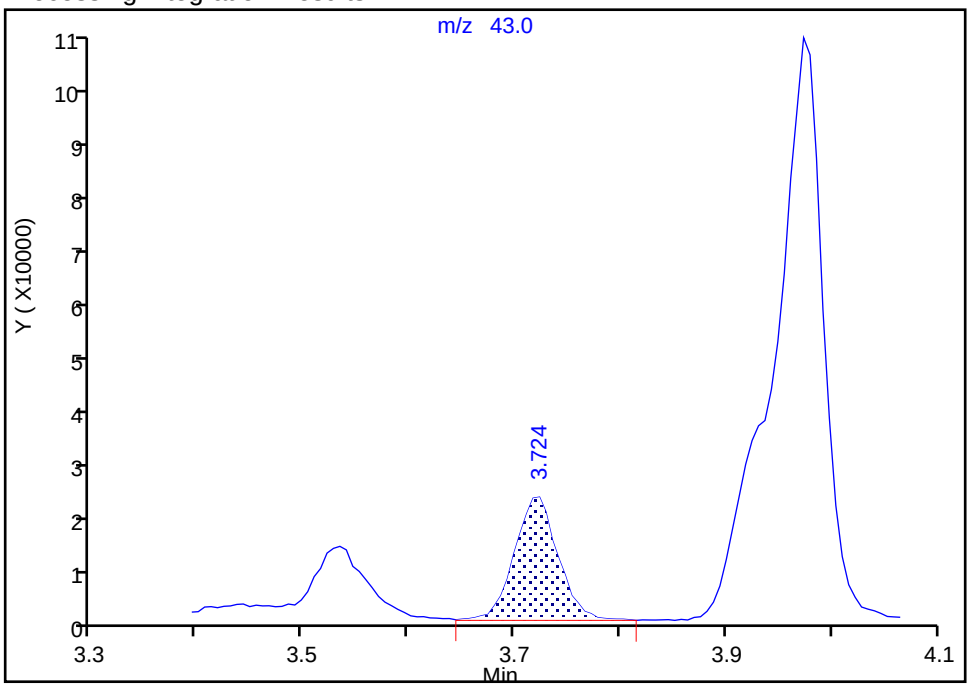
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

32 Hexane, CAS: 110-54-3

Signal: 1

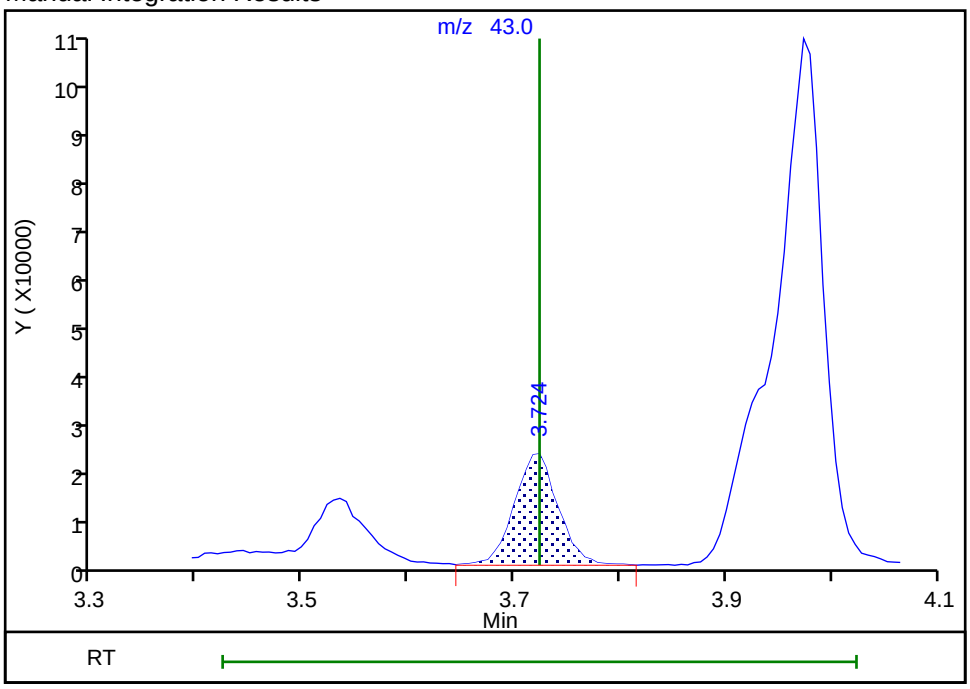
Processing Integration Results

RT: 3.72
Area: 62756
Amount: 25.581702
Amount Units: ug/l



Manual Integration Results

RT: 3.72
Area: 62756
Amount: 25.581702
Amount Units: ug/l



Reviewer: maheseep, 11-Jul-2018 15:15:05
Audit Action: Assigned Compound ID Audit Reason: Wrong peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

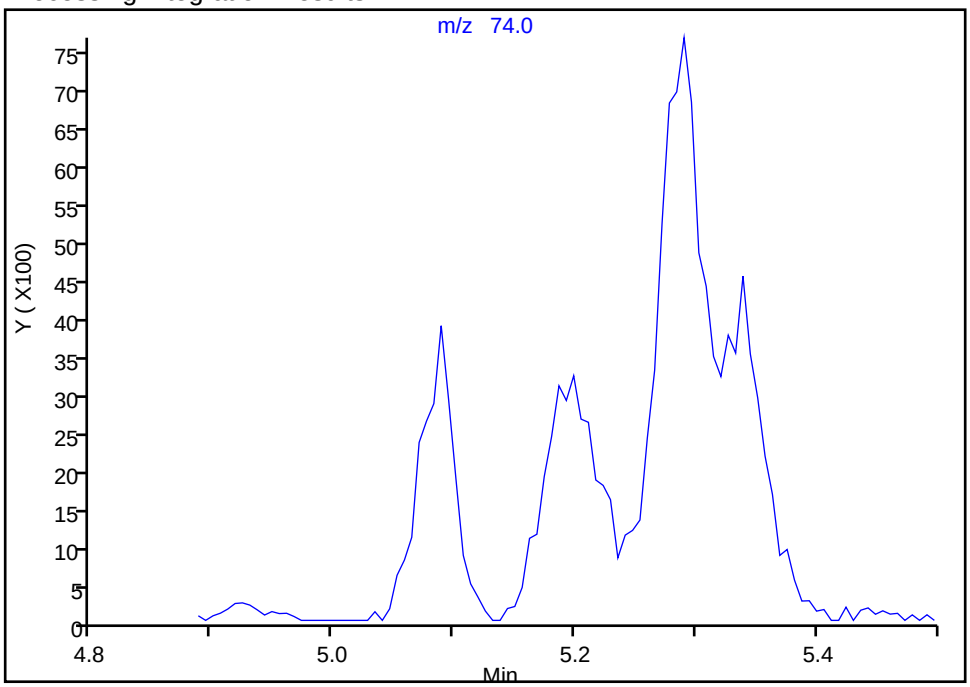
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

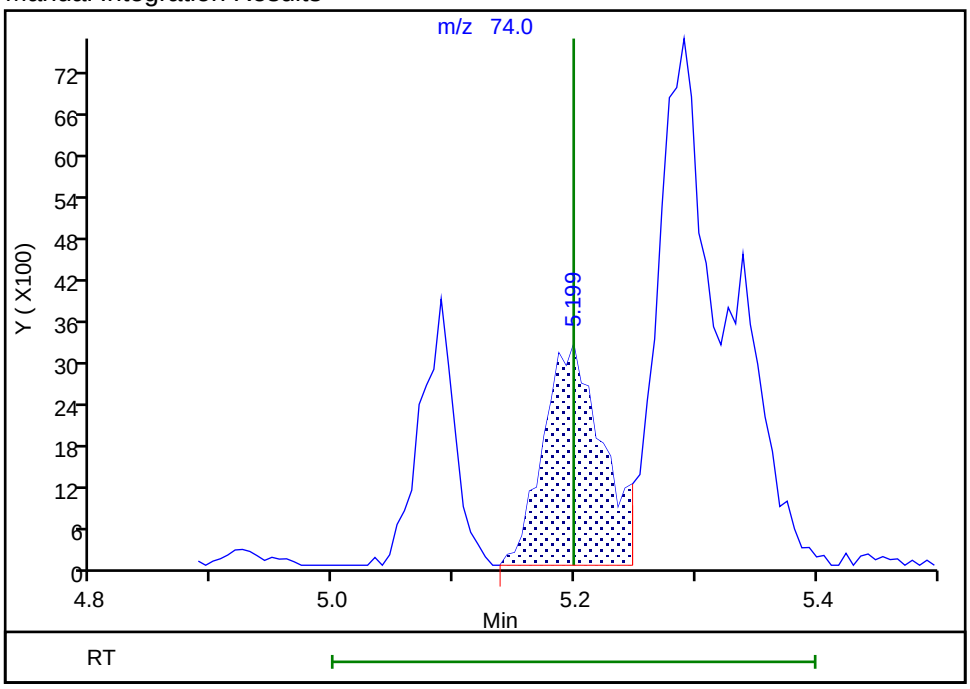
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.20
Area: 10951
Amount: 417.0889
Amount Units: ug/l



Reviewer: colladox, 10-Jul-2018 20:55:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

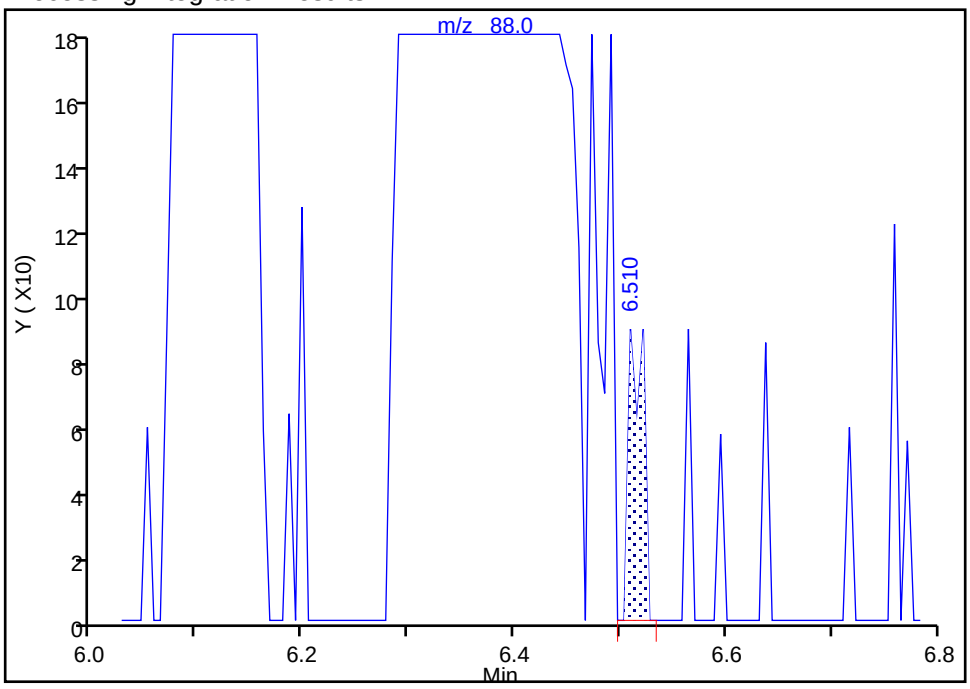
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

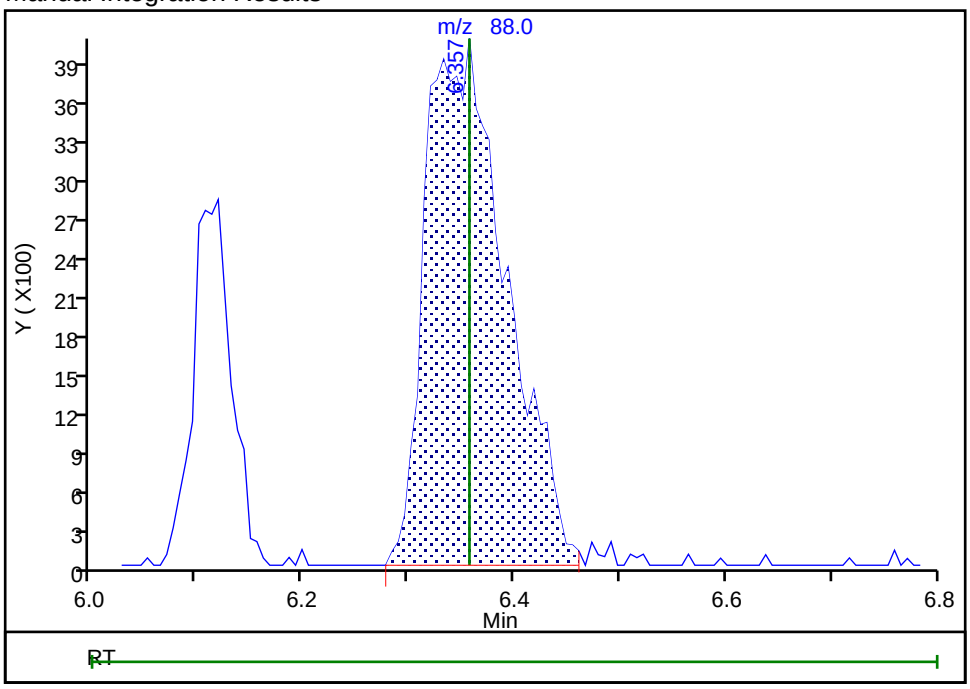
Processing Integration Results

RT: 6.51
Area: 85
Amount: 1.427942
Amount Units: ug/l



Manual Integration Results

RT: 6.36
Area: 21722
Amount: 364.9148
Amount Units: ug/l



Reviewer: colladox, 10-Jul-2018 20:55:29
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

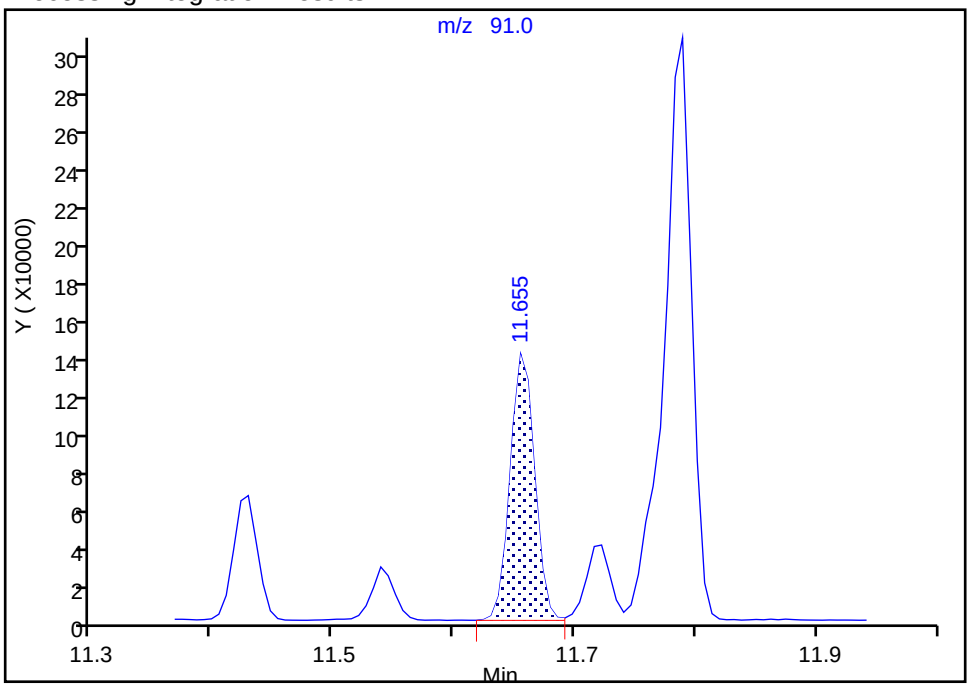
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86386.D
Injection Date: 10-Jul-2018 20:32:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

118 Benzyl chloride, CAS: 100-44-7

Signal: 1

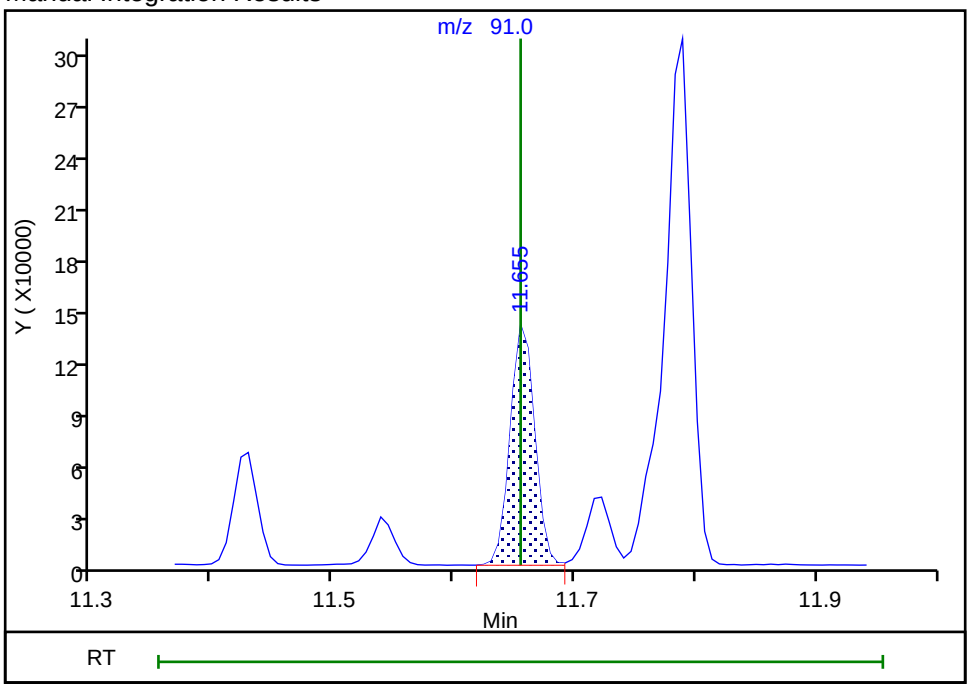
Processing Integration Results

RT: 11.65
Area: 197856
Amount: 20.294573
Amount Units: ug/l



Manual Integration Results

RT: 11.65
Area: 197856
Amount: 20.294573
Amount Units: ug/l



Reviewer: maheseep, 11-Jul-2018 15:16:44
Audit Action: Assigned Compound ID Audit Reason: Retention Time Shift

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Jul-2018 00:52:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074947-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 05:12:43 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: sarmientod Date: 06-Jul-2018 01:03:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.283	4.283	0.000	96	73268	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

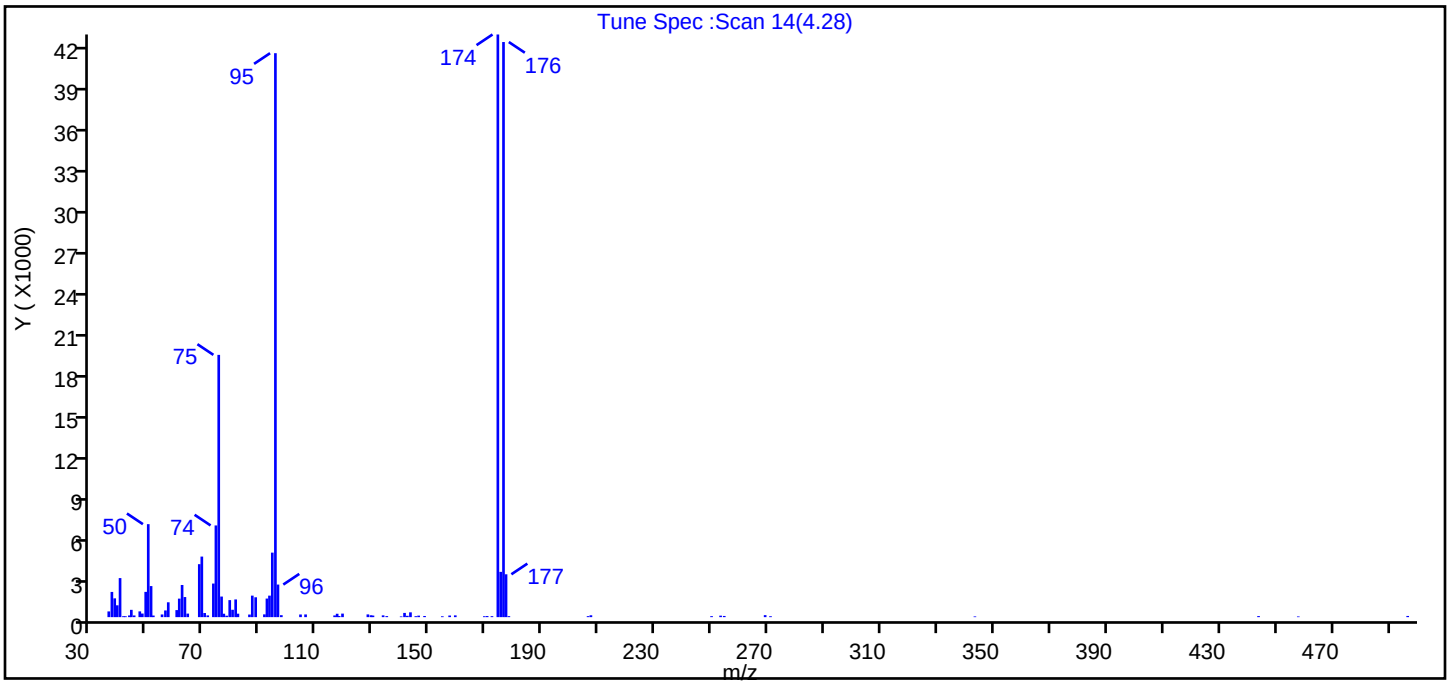
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Injection Date: 06-Jul-2018 00:52:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	103.3
175	5 to 9% of m/z 174	8.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	102.0 (98.7)
177	5 to 9% of m/z 176	7.6 (7.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D\8260S9.rslt\spectra.d
Injection Date: 06-Jul-2018 00:52:30
Spectrum: Tune Spec :Scan 14(4.28)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	419	63.00	1468	94.00	4715	154.30	62
37.10	1842	64.00	258	95.10	41216	156.90	118
38.10	1373	68.10	3871	96.00	2381	158.90	129
39.00	865	69.00	4426	97.20	143	169.20	65
40.00	2854	70.00	301	104.00	194	170.20	80
41.20	69	71.10	127	105.80	198	171.90	71
41.90	65	73.10	2455	116.10	124	174.00	42584
43.30	123	74.00	6702	117.00	248	175.00	3309
44.00	534	75.00	19168	117.70	82	176.00	42032
45.00	123	76.00	1505	118.90	259	176.90	3132
47.00	421	76.80	250	127.90	200	177.90	72
47.90	263	77.80	105	129.00	137	206.00	72
49.10	1847	78.90	1244	129.70	115	207.00	136
50.00	6796	79.90	539	133.30	130	249.80	72
51.00	2270	81.00	1294	134.60	76	253.00	109
51.80	116	81.80	252	139.70	51	254.30	86
54.90	196	85.90	190	140.90	309	268.80	146
56.10	489	86.90	1572	141.90	98	270.70	66
57.10	1086	88.10	1451	143.00	351	343.20	52
60.10	515	91.20	203	144.90	69	443.80	77
61.00	1353	92.10	1358	145.90	110	457.90	50
62.00	2350	93.00	1572	148.00	84	496.70	87

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86385.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 10-Jul-2018 20:07:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075214-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 15:12:28 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: maheseep Date: 11-Jul-2018 15:12:28

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.306	4.306	0.000	95	96166	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

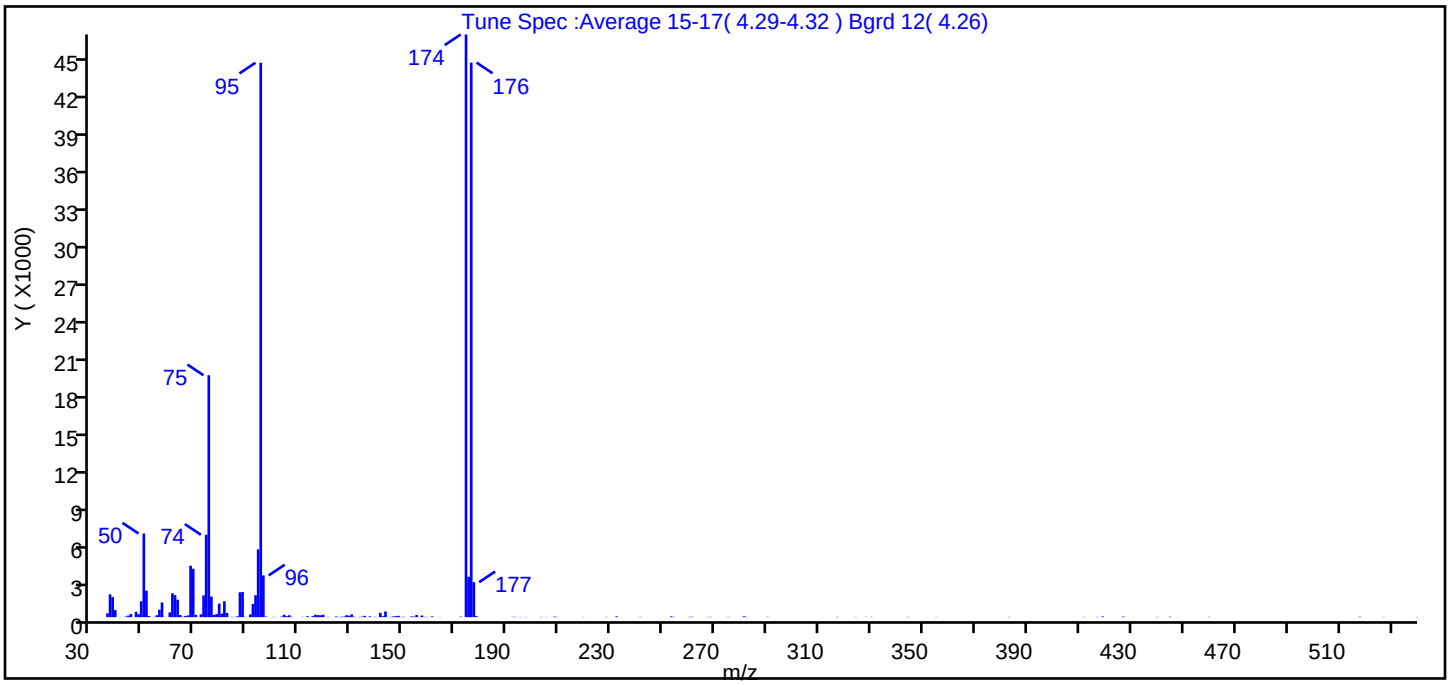
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86385.D
Injection Date: 10-Jul-2018 20:07:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.1
75	30 to 60% of m/z 95	43.6
96	5 to 9% of m/z 95	7.5
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	105.1
175	5 to 9% of m/z 174	7.3 (6.9)
176	Greater than 95% but less than 101% of m/z 174	100.0 (95.2)
177	5 to 9% of m/z 176	6.3 (6.3)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86385.D\8260S9.rslt\spectra.d
Injection Date: 10-Jul-2018 20:07:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	298	78.00	247	128.00	150	197.00	17
37.00	1808	79.00	1074	129.00	118	203.00	17
38.00	1594	80.00	281	130.00	217	205.00	16
39.00	559	81.00	1258	131.00	34	208.00	41
41.00	16	82.00	332	133.00	17	209.00	21
43.00	42	84.00	25	134.00	39	219.00	17
44.00	124	85.00	17	135.00	104	228.00	20
45.00	246	86.00	64	137.00	65	232.00	62
47.00	428	87.00	1974	139.00	27	241.00	22
48.00	231	88.00	1998	141.00	345	253.00	60
49.00	1258	89.00	22	142.00	72	254.00	20
50.00	6640	91.00	215	143.00	447	260.00	19
51.00	2100	92.00	1052	145.00	21	261.00	33
52.00	99	93.00	1739	146.00	57	267.00	17
54.00	19	94.00	5379	147.00	81	268.00	24
55.00	152	95.00	44016	148.00	104	275.00	21
56.00	591	96.00	3314	149.00	17	281.00	64
57.00	1166	97.00	46	150.00	28	282.00	18
58.00	21	100.00	20	153.00	56	290.00	26
60.00	375	103.00	44	154.00	45	317.00	23
61.00	1894	104.00	190	155.00	168	324.00	17
62.00	1753	105.00	79	156.00	18	328.00	23
63.00	1382	106.00	149	157.00	126	330.00	22
64.00	171	107.00	20	158.00	21	344.00	24
65.00	28	111.00	23	159.00	18	355.00	16
66.00	96	113.00	75	161.00	58	383.00	21
67.00	139	115.00	75	164.00	19	412.00	20
68.00	4079	116.00	194	172.00	41	417.00	19
69.00	3844	117.00	159	174.00	46264	419.00	54
70.00	183	118.00	152	175.00	3203	427.00	43
72.00	228	119.00	193	176.00	44032	440.00	19
73.00	1723	121.00	22	177.00	2775	445.00	36
74.00	6541	124.00	53	178.00	83	460.00	23

Report Date: 11-Jul-2018 15:12:28 Chrom Revision: 2.2 07-Jun-2018 07:41:54
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86385.D\8260S9.rslt\spectra.d
Injection Date: 10-Jul-2018 20:07:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
75.00	19208	125.00	18	192.00	22	518.00	36
76.00	1632	126.00	32	193.00	25	527.00	17
77.00	175	127.00	44	195.00	17	540.00	18

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535091/7

Matrix: Solid | Lab File ID: K86391.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 22:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	3.84	J	5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535091/7

Matrix: Solid | Lab File ID: K86391.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 22:52

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.227	J	1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	0.471	J	1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-135
460-00-4	4-Bromofluorobenzene	99		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	105		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 10-Jul-2018 22:52:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075214-007
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 08:55:00 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 08:55:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
8 Trichlorofluoromethane	101	2.437	2.462	-0.025	43	3714		0.4714	
18 Acetone	43	3.004	3.010	-0.006	72	3897		3.84	
* 25 TBA-d9 (IS)	65	3.358	3.364	-0.006	0	374683	1000.0	1000.0	
26 Methylene Chloride	84	3.364	3.376	-0.012	30	974		0.2271	
* 38 2-Butanone-d5	46	4.443	4.455	-0.012	0	248660	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.931	4.943	-0.012	97	212710	50.0	52.7	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.290	5.303	-0.013	0	177121	50.0	47.2	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	100	586990	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	32308	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.247	7.260	-0.013	99	682694	50.0	51.8	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	83	496678	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.411	-0.006	97	262847	50.0	49.3	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.509	-0.007	93	308833	50.0	50.0	

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

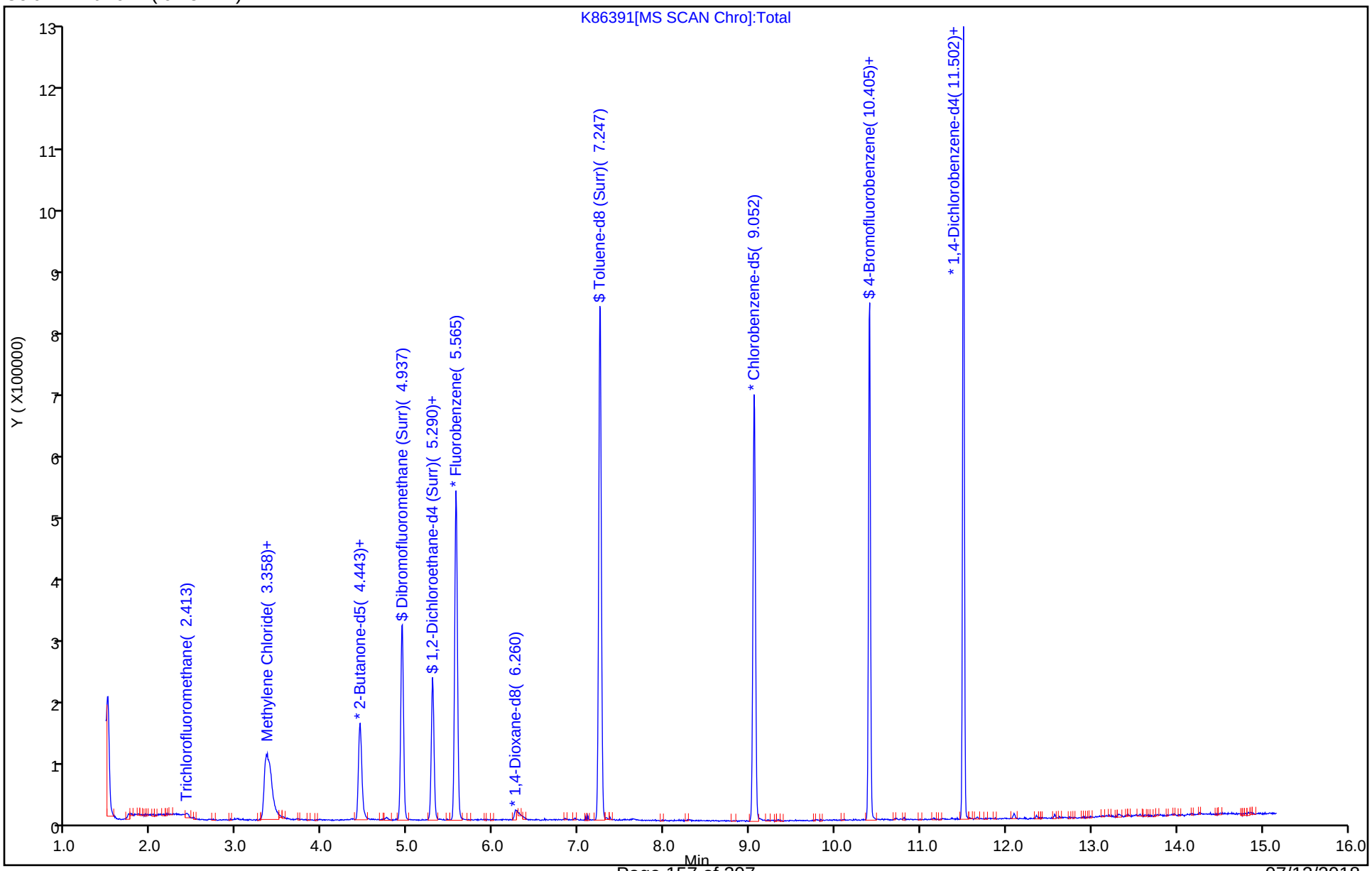
Report Date: 11-Jul-2018 08:55:01 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D

Injection Date:	10-Jul-2018 22:52:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

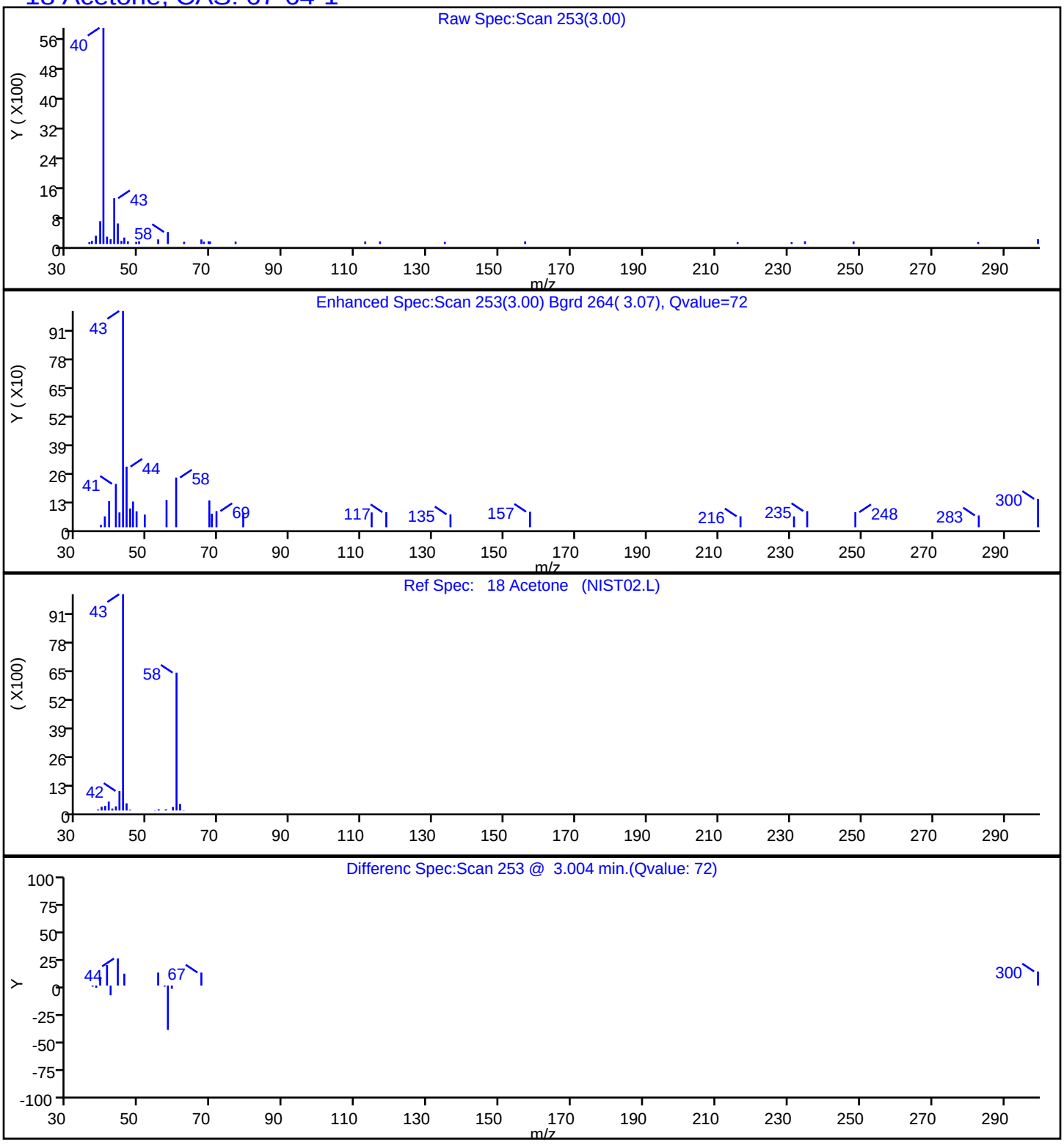
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D
Injection Date: 10-Jul-2018 22:52:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

18 Acetone, CAS: 67-64-1



Report Date: 11-Jul-2018 08:55:01 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D

Injection Date: 10-Jul-2018 22:52:30 Instrument ID: CVOAMS9

Lims ID: MB

Client ID:

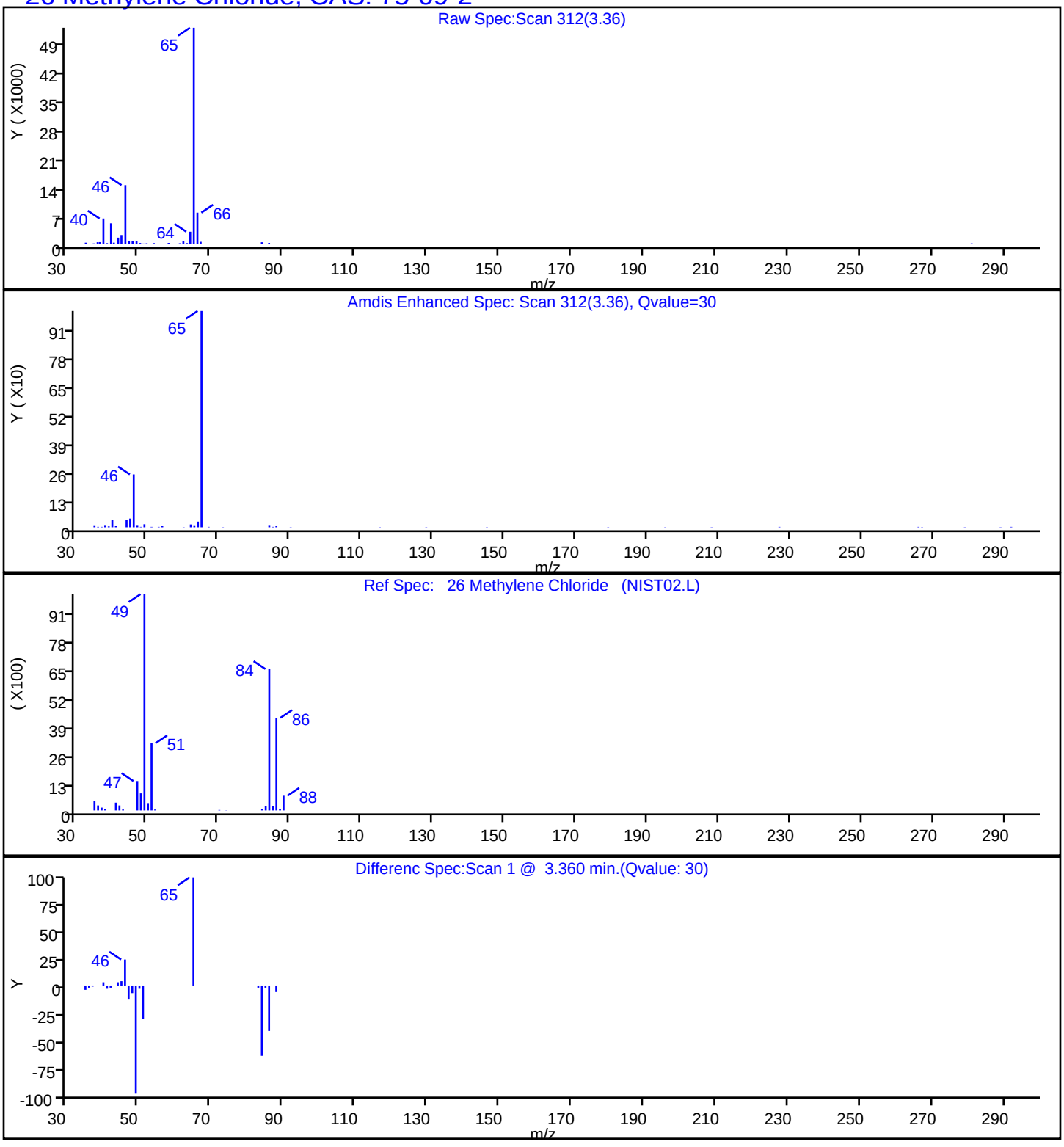
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

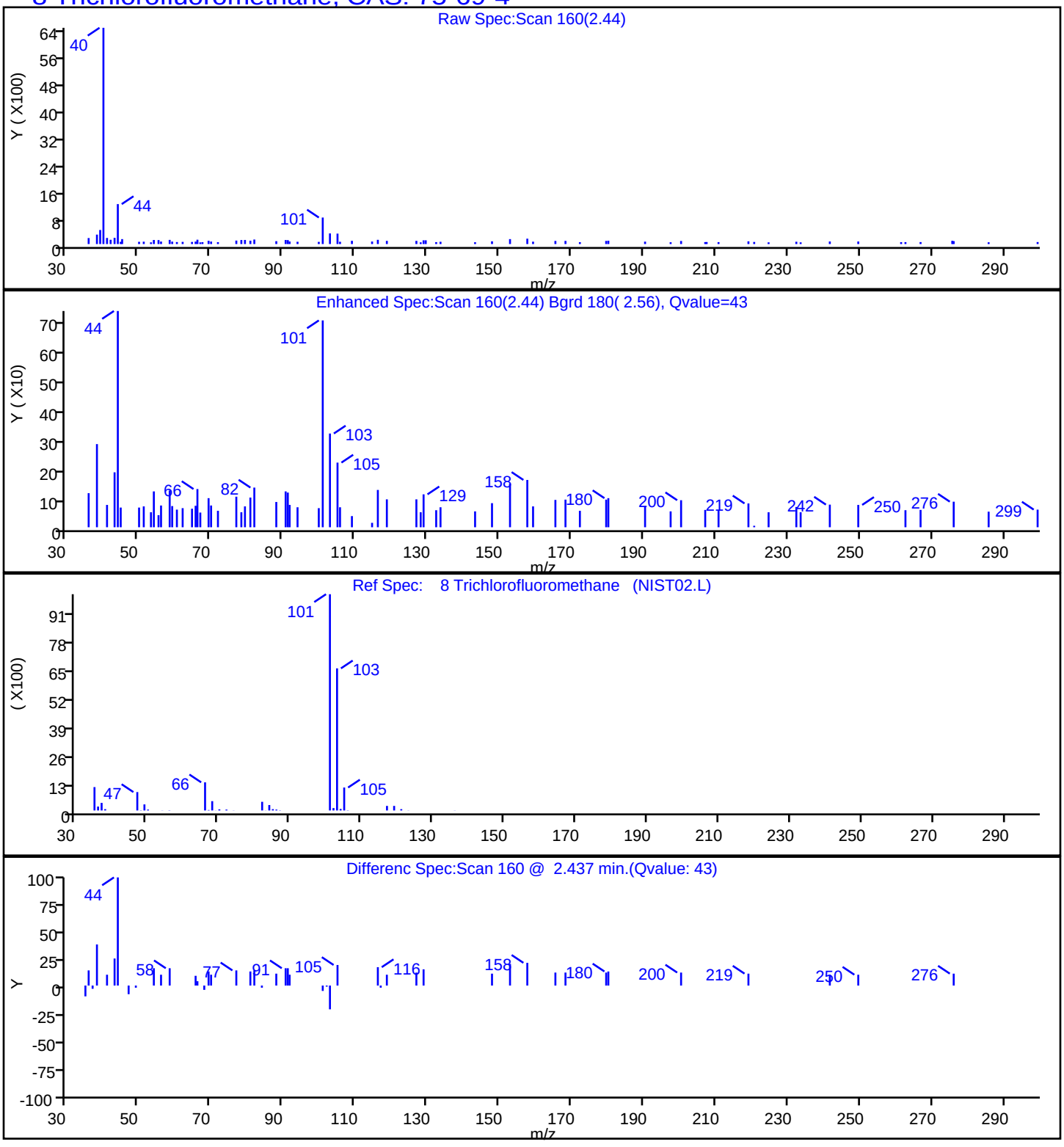
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D
Injection Date: 10-Jul-2018 22:52:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4



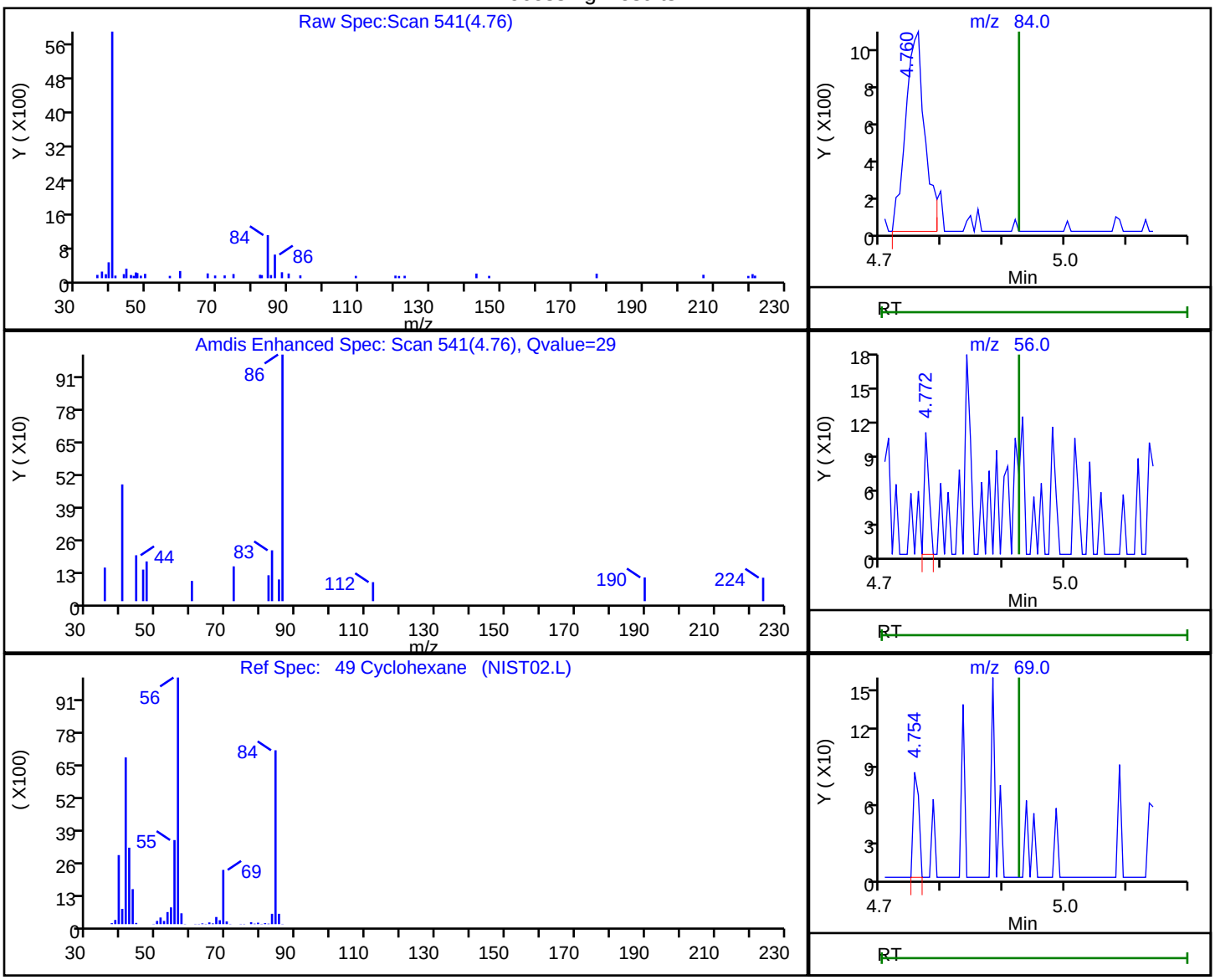
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86391.D
Injection Date: 10-Jul-2018 22:52:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.76	84.00	2228	0.411513
4.77	56.00	58	
4.75	69.00	53	

Reviewer: colladox, 10-Jul-2018 23:52:32
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535091/3

Matrix: Solid | Lab File ID: K86387.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 20:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	19.2		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	20.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.5		1.0	0.30
79-00-5	1,1,2-Trichloroethane	20.6		1.0	0.18
75-34-3	1,1-Dichloroethane	21.6		1.0	0.21
75-35-4	1,1-Dichloroethene	20.5		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	17.3		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	17.8		1.0	0.46
95-50-1	1,2-Dichlorobenzene	18.1		1.0	0.14
107-06-2	1,2-Dichloroethane	17.6		1.0	0.30
78-87-5	1,2-Dichloropropane	21.2		1.0	0.42
541-73-1	1,3-Dichlorobenzene	18.2		1.0	0.16
106-46-7	1,4-Dichlorobenzene	17.9		1.0	0.10
78-93-3	2-Butanone (MEK)	77.8		5.0	1.1
591-78-6	2-Hexanone	90.3		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	91.6		5.0	0.66
67-64-1	Acetone	86.3		5.0	3.8
71-43-2	Benzene	20.9		1.0	0.26
75-25-2	Bromoform	16.6		1.0	0.43
74-83-9	Bromomethane	19.2		1.0	0.47
75-15-0	Carbon disulfide	21.0		1.0	0.27
56-23-5	Carbon tetrachloride	18.5		1.0	0.18
108-90-7	Chlorobenzene	18.9		1.0	0.18
124-48-1	Dibromochloromethane	17.7		1.0	0.19
75-00-3	Chloroethane	20.9		1.0	0.52
67-66-3	Chloroform	19.8		1.0	0.32
74-87-3	Chloromethane	20.2		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	19.1		1.0	0.15
110-82-7	Cyclohexane	21.1		1.0	0.22
75-27-4	Bromodichloromethane	18.4		1.0	0.26
75-71-8	Dichlorodifluoromethane	18.3		1.0	0.34
100-41-4	Ethylbenzene	19.4		1.0	0.20
106-93-4	1,2-Dibromoethane	18.9		1.0	0.18
98-82-8	Isopropylbenzene	19.0		1.0	0.13
79-20-9	Methyl acetate	41.5		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535091/3

Matrix: Solid | Lab File ID: K86387.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 20:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.0		1.0	0.13
108-87-2	Methylcyclohexane	20.4		1.0	0.16
75-09-2	Methylene Chloride	19.6		1.0	0.16
127-18-4	Tetrachloroethene	18.3		1.0	0.14
108-88-3	Toluene	19.4		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	20.6		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	18.7		1.0	0.27
79-01-6	Trichloroethene	19.2		1.0	0.14
75-69-4	Trichlorofluoromethane	19.7		1.0	0.41
75-01-4	Vinyl chloride	20.8		1.0	0.55
1330-20-7	Xylenes, Total	37.5		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	19.7		1.0	0.27
100-42-5	Styrene	19.3		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-135
460-00-4	4-Bromofluorobenzene	99		67-126
2037-26-5	Toluene-d8 (Surr)	105		73-121
1868-53-7	Dibromofluoromethane (Surr)	103		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86387.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 10-Jul-2018 20:56:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075214-003
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 08:51:55 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: maheseep Date: 11-Jul-2018 15:20:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.602	-0.006	87	52721	20.0	17.7	a
2 Dichlorodifluoromethane	85	1.639	1.626	0.013	99	113406	20.0	18.3	
3 Chloromethane	50	1.816	1.822	-0.006	99	102790	20.0	20.2	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	108876	20.0	20.8	
5 Butadiene	54	1.919	1.943	-0.024	95	89980	20.0	21.6	
6 Bromomethane	94	2.206	2.218	-0.012	99	91567	20.0	19.2	
7 Chloroethane	64	2.285	2.285	0.000	100	59029	20.0	20.9	
8 Trichlorofluoromethane	101	2.456	2.462	-0.006	73	163225	20.0	19.7	
9 Dichlorofluoromethane	67	2.462	2.468	-0.006	96	166926	20.0	21.3	
10 Pentane	72	2.492	2.498	-0.006	96	22059	40.0	33.2	
12 Ethanol	46	2.712	2.699	0.013	67	15543	800.0	881.4	
11 Ethyl ether	59	2.693	2.706	-0.013	94	52080	20.0	21.6	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	97	61604	20.0	23.8	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.742	0.006	93	89239	20.0	21.9	
15 Acrolein	56	2.876	2.882	-0.006	94	107249	300.0	234.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.913	-0.006	51	94584	20.0	21.5	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	82250	20.0	20.5	
18 Acetone	43	3.004	3.010	-0.006	87	101549	100.0	86.3	
19 Iodomethane	142	3.071	3.083	-0.012	97	185339	20.0	19.2	
22 Isopropyl alcohol	45	3.084	3.114	-0.030	28	57426	200.0	194.7	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	272645	20.0	21.0	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	89	48307	20.0	20.7	
23 Methyl acetate	43	3.242	3.248	-0.006	88	92156	40.0	41.5	
24 Cyclopentene	67	3.260	3.266	-0.006	93	182197	20.0	23.3	
29 Acetonitrile	41	3.315	3.321	-0.006	96	109968	200.0	198.4	a
* 25 TBA-d9 (IS)	65	3.376	3.364	0.012	0	429870	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.376	-0.006	86	88512	20.0	19.6	
27 2-Methyl-2-propanol	59	3.425	3.449	-0.024	91	110746	200.0	173.7	
28 Methyl tert-butyl ether	73	3.523	3.535	-0.013	95	229269	20.0	20.0	
30 trans-1,2-Dichloroethene	96	3.559	3.571	-0.012	91	89200	20.0	20.6	
31 Acrylonitrile	53	3.632	3.638	-0.006	93	241538	200.0	230.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.718	3.724	-0.006	91	56058	20.0	22.9	
33 Isopropyl ether	45	3.919	3.931	-0.012	95	212790	20.0	23.3	
34 1,1-Dichloroethane	63	3.968	3.974	-0.006	77	137326	20.0	21.6	
35 Vinyl acetate	86	3.968	3.974	-0.006	100	26253	40.0	31.5	
36 2-Chloro-1,3-butadiene	88	4.010	4.022	-0.012	90	74231	20.0	21.0	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	221313	20.0	20.7	
* 38 2-Butanone-d5	46	4.449	4.455	-0.006	0	288054	250.0	250.0	
39 2,2-Dichloropropane	79	4.467	4.480	-0.013	90	39986	20.0	19.7	
40 cis-1,2-Dichloroethene	96	4.498	4.504	-0.006	79	97991	20.0	19.1	
41 Ethyl acetate	70	4.498	4.510	-0.012	86	14370	40.0	33.2	
42 2-Butanone (MEK)	72	4.504	4.510	-0.006	97	41720	100.0	77.8	
44 Methyl acrylate	55	4.565	4.571	-0.006	98	52954	20.0	21.0	
43 Propionitrile	54	4.638	4.650	-0.012	97	96205	200.0	180.3	
45 Tetrahydrofuran	72	4.730	4.730	0.000	58	20439	40.0	33.2	
46 Chlorobromomethane	128	4.730	4.736	-0.006	68	52978	20.0	18.3	
47 Methacrylonitrile	67	4.742	4.748	-0.006	90	283049	200.0	215.3	
48 Chloroform	83	4.778	4.784	-0.006	99	153506	20.0	19.8	
49 Cyclohexane	84	4.919	4.925	-0.006	90	120141	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	143039	20.0	19.2	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.943	-0.006	97	218331	50.0	51.4	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	97	122067	20.0	18.5	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	97	108675	20.0	20.6	
56 Isobutyl alcohol	74	5.205	5.199	0.006	80	10346	500.0	423.0	a
54 Benzene	78	5.278	5.284	-0.006	95	315220	20.0	20.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.303	-0.006	0	194917	50.0	49.4	
57 Isopropyl acetate	43	5.321	5.327	-0.006	96	209540	20.0	21.3	
58 Tert-amyl methyl ether	87	5.333	5.333	0.000	91	73039	20.0	18.9	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	97	97431	20.0	17.6	
60 n-Heptane	57	5.425	5.431	-0.006	89	62001	20.0	21.7	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	616988	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	88	57174	500.0	439.3	
63 Trichloroethene	95	5.931	5.937	-0.006	94	84127	20.0	19.2	
64 Ethyl acrylate	56	6.059	6.065	-0.006	97	44422	20.0	20.0	
65 Methylcyclohexane	83	6.059	6.065	-0.006	92	147025	20.0	20.4	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	92	71195	20.0	21.2	
* 67 1,4-Dioxane-d8	96	6.278	6.272	0.006	0	38495	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.284	-0.006	82	86643	40.0	41.5	
70 n-Propyl acetate	43	6.333	6.333	0.000	97	84146	20.0	21.9	
69 1,4-Dioxane	88	6.351	6.357	-0.006	81	19979	400.0	348.4	a
71 Dibromomethane	93	6.357	6.363	-0.006	92	52033	20.0	18.3	
72 Dichlorobromomethane	83	6.504	6.510	-0.006	98	101136	20.0	18.4	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.006	85	37287	20.0	20.8	
74 2-Nitropropane	41	6.833	6.839	-0.006	83	22031	40.0	31.4	
75 Epichlorohydrin	57	6.943	6.949	-0.006	99	128891	400.0	340.5	
76 cis-1,3-Dichloropropene	75	7.004	7.010	-0.006	89	113010	20.0	19.7	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.162	-0.006	95	322388	100.0	91.6	
$ 78 Toluene-d8 (Surr)	98	7.253	7.260	-0.007	99	727360	50.0	52.3	
79 Toluene	91	7.333	7.333	0.000	93	339932	20.0	19.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	99	97848	20.0	18.7	
81 Ethyl methacrylate	69	7.692	7.698	-0.006	87	82767	20.0	19.9	
82 1,1,2-Trichloroethane	83	7.900	7.906	-0.006	95	55575	20.0	20.6	
83 Tetrachloroethene	166	7.955	7.954	0.001	96	105076	20.0	18.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	97829	20.0	19.8	
85 2-Hexanone	43	8.156	8.162	-0.006	95	203393	100.0	90.3	
86 n-Butyl acetate	43	8.265	8.272	-0.007	99	89145	20.0	22.3	
87 Chlorodibromomethane	129	8.351	8.357	-0.006	97	75197	20.0	17.7	
88 Ethylene Dibromide	107	8.509	8.515	-0.006	98	71257	20.0	18.9	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	523559	50.0	50.0	
90 Chlorobenzene	112	9.095	9.095	0.001	99	232752	20.0	18.9	
92 Ethylbenzene	106	9.186	9.192	-0.006	97	129226	20.0	19.4	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	94	94668	20.0	18.5	
93 m-Xylene & p-Xylene	106	9.338	9.338	0.000	0	152776	20.0	18.6	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	50534	20.0	20.4	
95 o-Xylene	106	9.802	9.802	0.000	94	161972	20.0	18.8	
96 Styrene	104	9.832	9.838	-0.006	97	253825	20.0	19.3	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	105184	20.0	22.5	
98 Bromoform	173	10.070	10.076	-0.006	97	47791	20.0	16.6	
99 Isopropylbenzene	105	10.186	10.192	-0.006	95	424592	20.0	19.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.411	-0.006	97	279719	50.0	49.7	
101 Bromobenzene	156	10.546	10.552	-0.006	85	116818	20.0	18.1	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	95810	20.0	20.9	
103 N-Propylbenzene	91	10.613	10.613	0.001	100	470720	20.0	19.8	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	29099	20.0	20.2	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.655	-0.006	93	20645	20.0	19.4	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	320317	20.0	19.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	413026	20.0	19.1	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	353519	20.0	18.6	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	268271	20.0	19.4	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	104310	20.0	19.5	
111 tert-Butylbenzene	119	11.088	11.094	-0.006	95	292505	20.0	18.1	
112 1,2,4-Trimethylbenzene	105	11.149	11.155	-0.006	97	367258	20.0	18.6	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	463639	20.0	19.1	
114 4-Isopropyltoluene	119	11.423	11.429	-0.006	98	420694	20.0	18.5	
115 1,3-Dichlorobenzene	146	11.436	11.442	-0.006	99	222377	20.0	18.2	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.509	-0.006	92	330278	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	222072	20.0	17.9	
118 Benzyl chloride	91	11.655	11.655	0.000	99	189985	20.0	19.7	
119 2,3-Dihydroindene	117	11.716	11.722	-0.006	94	390005	20.0	18.4	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	248871	20.0	19.0	
121 n-Butylbenzene	92	11.783	11.789	-0.006	97	210911	20.0	19.9	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	223788	20.0	18.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	403322	20.0	17.8	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.521	-0.006	94	16824	20.0	17.8	
125 1,3,5-Trichlorobenzene	180	12.630	12.637	-0.006	97	198542	20.0	17.5	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	186418	20.0	17.3	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	96	93185	20.0	17.7	
128 Naphthalene	128	13.319	13.325	-0.006	99	419712	20.0	18.7	
129 1,2,3-Trichlorobenzene	180	13.508	13.514	-0.006	95	183291	20.0	17.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	39.7	
S 131 Xylenes, Total	100				0		40.0	37.5	
S 132 Total BTEX	1				0		100.0	97.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

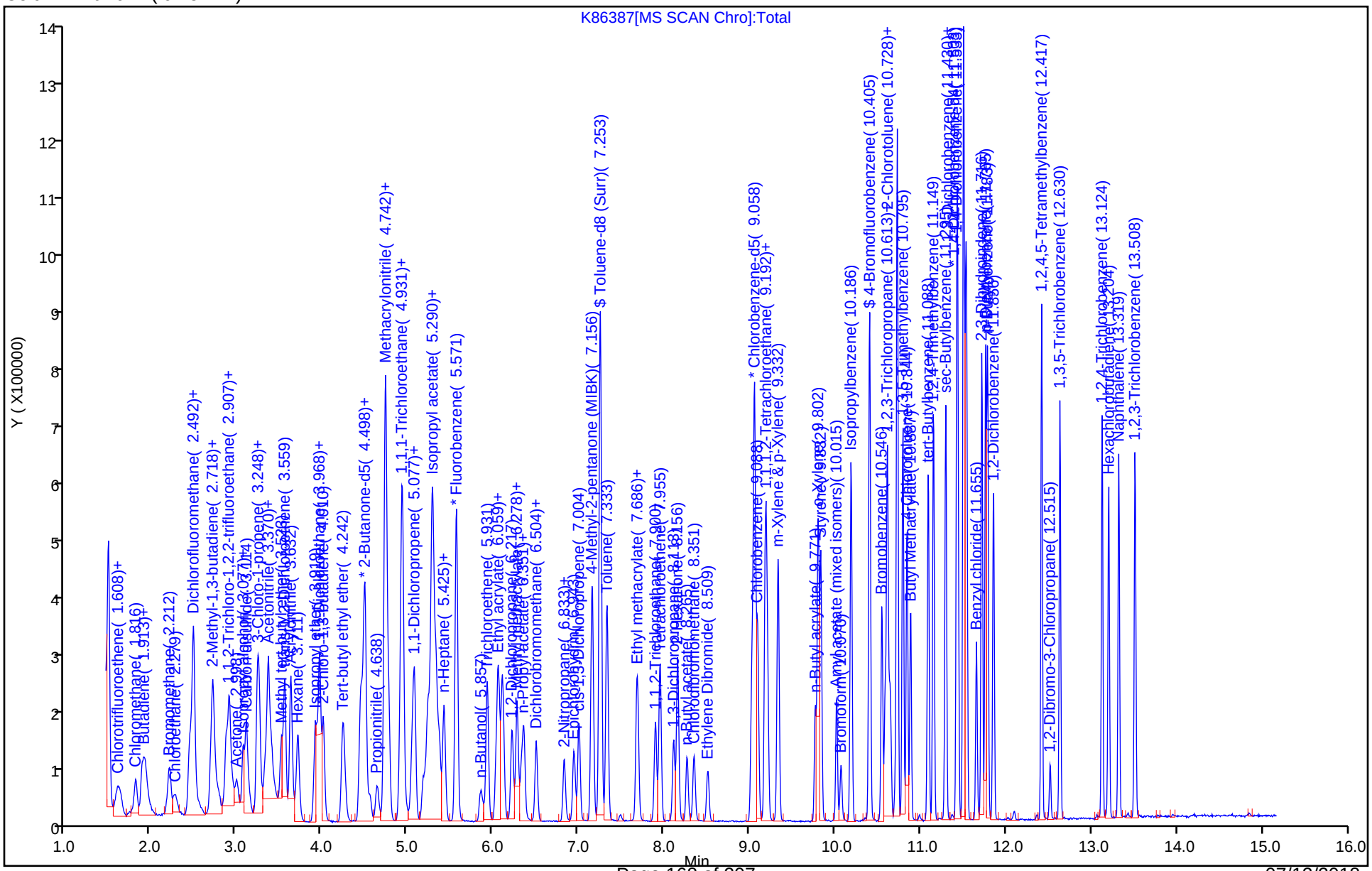
Report Date: 11-Jul-2018 08:51:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86387.D

Injection Date:	10-Jul-2018 20:56:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Client Sample ID: Lab Sample ID: LCSD 460-535091/4

Matrix: Solid Lab File ID: K86388.D

Analysis Method: 8260C Date Collected:

Sample wt/vol: 5(mL) Date Analyzed: 07/10/2018 21:21

Soil Aliquot Vol: Dilution Factor: 1

Soil Extract Vol.: GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: Level: (low/med) Low

Analysis Batch No.: 535091 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.6		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	19.2		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	21.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	19.2		1.0	0.18
75-34-3	1,1-Dichloroethane	20.2		1.0	0.21
75-35-4	1,1-Dichloroethene	19.2		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	17.4		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	16.5		1.0	0.46
95-50-1	1,2-Dichlorobenzene	17.6		1.0	0.14
107-06-2	1,2-Dichloroethane	16.5		1.0	0.30
78-87-5	1,2-Dichloropropane	19.5		1.0	0.42
541-73-1	1,3-Dichlorobenzene	17.8		1.0	0.16
106-46-7	1,4-Dichlorobenzene	17.7		1.0	0.10
78-93-3	2-Butanone (MEK)	80.4		5.0	1.1
591-78-6	2-Hexanone	86.2		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	87.7		5.0	0.66
67-64-1	Acetone	77.9		5.0	3.8
71-43-2	Benzene	19.3		1.0	0.26
75-25-2	Bromoform	15.3		1.0	0.43
74-83-9	Bromomethane	20.3		1.0	0.47
75-15-0	Carbon disulfide	19.9		1.0	0.27
56-23-5	Carbon tetrachloride	18.1		1.0	0.18
108-90-7	Chlorobenzene	18.0		1.0	0.18
124-48-1	Dibromochloromethane	16.2		1.0	0.19
75-00-3	Chloroethane	22.5		1.0	0.52
67-66-3	Chloroform	18.0		1.0	0.32
74-87-3	Chloromethane	21.8		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	18.5		1.0	0.15
110-82-7	Cyclohexane	21.3		1.0	0.22
75-27-4	Bromodichloromethane	17.8		1.0	0.26
75-71-8	Dichlorodifluoromethane	19.6		1.0	0.34
100-41-4	Ethylbenzene	18.4		1.0	0.20
106-93-4	1,2-Dibromoethane	17.7		1.0	0.18
98-82-8	Isopropylbenzene	18.5		1.0	0.13
79-20-9	Methyl acetate	38.5		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159405-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-535091/4

Matrix: Solid | Lab File ID: K86388.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/10/2018 21:21

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535091 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	18.3		1.0	0.13
108-87-2	Methylcyclohexane	20.3		1.0	0.16
75-09-2	Methylene Chloride	18.7		1.0	0.16
127-18-4	Tetrachloroethene	17.7		1.0	0.14
108-88-3	Toluene	18.6		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	19.3		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	17.7		1.0	0.27
79-01-6	Trichloroethene	18.5		1.0	0.14
75-69-4	Trichlorofluoromethane	21.1		1.0	0.41
75-01-4	Vinyl chloride	22.1		1.0	0.55
1330-20-7	Xylenes, Total	36.5		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	18.0		1.0	0.27
100-42-5	Styrene	18.4		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	95		78-135
460-00-4	4-Bromofluorobenzene	99		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	101		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86388.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 10-Jul-2018 21:21:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075214-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 08:51:55 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: maheseep Date: 11-Jul-2018 15:23:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.602	-0.006	71	50920	20.0	17.1	
2 Dichlorodifluoromethane	85	1.626	1.626	0.000	99	121323	20.0	19.6	
3 Chloromethane	50	1.809	1.822	-0.013	98	110891	20.0	21.8	
4 Vinyl chloride	62	1.901	1.913	-0.012	98	115859	20.0	22.1	
5 Butadiene	54	1.931	1.943	-0.012	96	98897	20.0	23.8	
6 Bromomethane	94	2.212	2.218	-0.006	97	97091	20.0	20.3	
7 Chloroethane	64	2.273	2.285	-0.012	100	63491	20.0	22.5	
8 Trichlorofluoromethane	101	2.449	2.462	-0.013	94	174944	20.0	21.1	
9 Dichlorofluoromethane	67	2.462	2.468	-0.006	99	173860	20.0	22.1	
10 Pentane	72	2.492	2.498	-0.006	96	21808	40.0	35.1	
12 Ethanol	46	2.663	2.699	-0.036	67	14824	800.0	898.7	a
11 Ethyl ether	59	2.687	2.706	-0.019	94	48525	20.0	20.1	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	57799	20.0	22.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	75	80863	20.0	19.8	
15 Acrolein	56	2.870	2.882	-0.012	96	105010	300.0	245.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.913	0.006	57	95290	20.0	21.6	
17 1,1-Dichloroethene	96	2.907	2.919	-0.012	96	76928	20.0	19.2	
18 Acetone	43	2.998	3.010	-0.012	88	86799	100.0	77.9	
19 Iodomethane	142	3.071	3.083	-0.012	98	174430	20.0	18.1	
22 Isopropyl alcohol	45	3.089	3.114	-0.025	28	53945	200.0	195.5	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	259451	20.0	19.9	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	88	46678	20.0	20.0	
23 Methyl acetate	43	3.242	3.248	-0.006	88	79935	40.0	38.5	
24 Cyclopentene	67	3.260	3.266	-0.006	92	175975	20.0	22.5	
29 Acetonitrile	41	3.303	3.321	-0.018	93	96092	200.0	185.3	a
* 25 TBA-d9 (IS)	65	3.364	3.364	0.000	0	402095	1000.0	1000.0	
26 Methylene Chloride	84	3.370	3.376	-0.006	88	84579	20.0	18.7	
27 2-Methyl-2-propanol	59	3.425	3.449	-0.024	91	102631	200.0	172.1	
28 Methyl tert-butyl ether	73	3.528	3.535	-0.007	95	209668	20.0	18.3	
30 trans-1,2-Dichloroethene	96	3.559	3.571	-0.012	92	83842	20.0	19.3	
31 Acrylonitrile	53	3.626	3.638	-0.012	94	223962	200.0	213.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.724	-0.007	93	54315	20.0	22.1	
33 Isopropyl ether	45	3.919	3.931	-0.012	92	203166	20.0	22.2	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	75	128531	20.0	20.2	
35 Vinyl acetate	86	3.967	3.974	-0.007	100	23989	40.0	30.8	
36 2-Chloro-1,3-butadiene	88	4.010	4.022	-0.012	90	70857	20.0	20.0	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	89	209198	20.0	19.5	
* 38 2-Butanone-d5	46	4.443	4.455	-0.012	0	272803	250.0	250.0	
39 2,2-Dichloropropane	79	4.479	4.480	-0.001	93	39204	20.0	19.3	
40 cis-1,2-Dichloroethene	96	4.498	4.504	-0.006	78	94953	20.0	18.5	
41 Ethyl acetate	70	4.498	4.510	-0.012	85	13165	40.0	32.0	
42 2-Butanone (MEK)	72	4.504	4.510	-0.006	97	40838	100.0	80.4	
44 Methyl acrylate	55	4.553	4.571	-0.018	98	49293	20.0	19.5	
43 Propionitrile	54	4.638	4.650	-0.012	97	89525	200.0	179.4	
45 Tetrahydrofuran	72	4.729	4.730	-0.001	56	17865	40.0	30.7	
46 Chlorobromomethane	128	4.729	4.736	-0.007	68	51636	20.0	17.9	
47 Methacrylonitrile	67	4.742	4.748	-0.006	90	258424	200.0	196.4	
48 Chloroform	83	4.778	4.784	-0.006	99	140020	20.0	18.0	
49 Cyclohexane	84	4.918	4.925	-0.007	86	121203	20.0	21.3	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	138471	20.0	18.6	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.943	-0.006	97	214121	50.0	50.4	
52 Carbon tetrachloride	117	5.052	5.059	-0.007	98	119710	20.0	18.1	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	97	102348	20.0	19.4	
56 Isobutyl alcohol	74	5.193	5.199	-0.006	93	9973	500.0	435.9	a
54 Benzene	78	5.278	5.284	-0.006	95	296913	20.0	19.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.303	-0.007	0	187899	50.0	47.6	
57 Isopropyl acetate	43	5.321	5.327	-0.006	95	194928	20.0	19.8	a
58 Tert-amyl methyl ether	87	5.327	5.333	-0.006	91	69472	20.0	18.0	
59 1,2-Dichloroethane	62	5.369	5.376	-0.007	97	91485	20.0	16.5	
60 n-Heptane	57	5.424	5.431	-0.007	88	62279	20.0	21.8	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	100	617581	50.0	50.0	
62 n-Butanol	56	5.863	5.857	0.006	87	53518	500.0	439.6	
63 Trichloroethene	95	5.930	5.937	-0.007	94	81304	20.0	18.5	
64 Ethyl acrylate	56	6.058	6.065	-0.007	94	41237	20.0	18.5	
65 Methylcyclohexane	83	6.058	6.065	-0.007	93	146169	20.0	20.3	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	90	65553	20.0	19.5	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	36679	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.284	-0.006	84	80344	40.0	38.5	
70 n-Propyl acetate	43	6.333	6.333	0.000	98	78056	20.0	20.3	
69 1,4-Dioxane	88	6.327	6.357	-0.030	27	19278	400.0	352.8	M
71 Dibromomethane	93	6.357	6.363	-0.006	91	49224	20.0	17.3	
72 Dichlorobromomethane	83	6.503	6.510	-0.007	98	97741	20.0	17.8	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.007	80	33735	20.0	18.8	
74 2-Nitropropane	41	6.827	6.839	-0.013	77	20572	40.0	29.3	
75 Epichlorohydrin	57	6.942	6.949	-0.007	99	118607	400.0	330.8	
76 cis-1,3-Dichloropropene	75	7.003	7.010	-0.007	90	105328	20.0	18.0	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.162	-0.006	95	292328	100.0	87.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.260	-0.007	99	735881	50.0	51.8	
79 Toluene	91	7.333	7.333	-0.001	93	331901	20.0	18.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	94127	20.0	17.7	
81 Ethyl methacrylate	69	7.692	7.698	-0.006	86	79836	20.0	18.8	
82 1,1,2-Trichloroethane	83	7.893	7.906	-0.013	95	52775	20.0	19.2	
83 Tetrachloroethene	166	7.954	7.954	0.000	96	103798	20.0	17.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	94046	20.0	18.6	
85 2-Hexanone	43	8.156	8.162	-0.006	95	183836	100.0	86.2	
86 n-Butyl acetate	43	8.265	8.272	-0.007	98	82465	20.0	20.2	
87 Chlorodibromomethane	129	8.351	8.357	-0.006	97	70490	20.0	16.2	
88 Ethylene Dibromide	107	8.509	8.515	-0.006	98	68166	20.0	17.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	534473	50.0	50.0	
90 Chlorobenzene	112	9.094	9.095	0.000	98	227304	20.0	18.0	
92 Ethylbenzene	106	9.186	9.192	-0.006	97	125438	20.0	18.4	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	94	88806	20.0	17.0	
93 m-Xylene & p-Xylene	106	9.332	9.338	-0.006	0	152454	20.0	18.2	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	46974	20.0	18.5	
95 o-Xylene	106	9.802	9.802	0.000	96	160538	20.0	18.3	
96 Styrene	104	9.832	9.838	-0.006	97	247104	20.0	18.4	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	99468	20.0	20.9	
98 Bromoform	173	10.070	10.076	-0.006	97	44952	20.0	15.3	
99 Isopropylbenzene	105	10.186	10.192	-0.006	95	421514	20.0	18.5	
$ 100 4-Bromofluorobenzene	174	10.405	10.411	-0.006	97	282957	50.0	49.3	
101 Bromobenzene	156	10.551	10.552	-0.001	86	114042	20.0	17.4	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	89733	20.0	19.2	
103 N-Propylbenzene	91	10.612	10.613	0.000	100	473117	20.0	19.6	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	94	26925	20.0	18.4	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	92	20142	20.0	18.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	319983	20.0	19.0	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	418204	20.0	19.0	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	350356	20.0	18.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	266828	20.0	19.0	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	88	102830	20.0	18.9	
111 tert-Butylbenzene	119	11.088	11.094	-0.006	95	289720	20.0	17.7	
112 1,2,4-Trimethylbenzene	105	11.155	11.155	0.000	97	363139	20.0	18.0	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	456241	20.0	18.5	
114 4-Isopropyltoluene	119	11.423	11.429	-0.006	98	415628	20.0	18.0	
115 1,3-Dichlorobenzene	146	11.435	11.442	-0.007	99	221214	20.0	17.8	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.509	-0.007	92	335871	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	222211	20.0	17.7	
118 Benzyl chloride	91	11.655	11.655	0.000	99	176083	20.0	18.0	
119 2,3-Dihydroindene	117	11.716	11.722	-0.006	94	387172	20.0	18.0	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	250386	20.0	18.8	
121 n-Butylbenzene	92	11.783	11.789	-0.006	97	207898	20.0	19.3	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	221666	20.0	17.6	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	400073	20.0	17.3	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.521	-0.007	93	15876	20.0	16.5	
125 1,3,5-Trichlorobenzene	180	12.630	12.637	-0.006	97	201404	20.0	17.5	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	190211	20.0	17.4	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	94569	20.0	17.7	
128 Naphthalene	128	13.319	13.325	-0.006	99	406612	20.0	17.8	
129 1,2,3-Trichlorobenzene	180	13.508	13.514	-0.006	95	184527	20.0	17.5	
S 130 1,2-Dichloroethene, Total	100				0		40.0	37.8	
S 131 Xylenes, Total	100				0		40.0	36.5	
S 132 Total BTEX	1				0		100.0	92.8	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

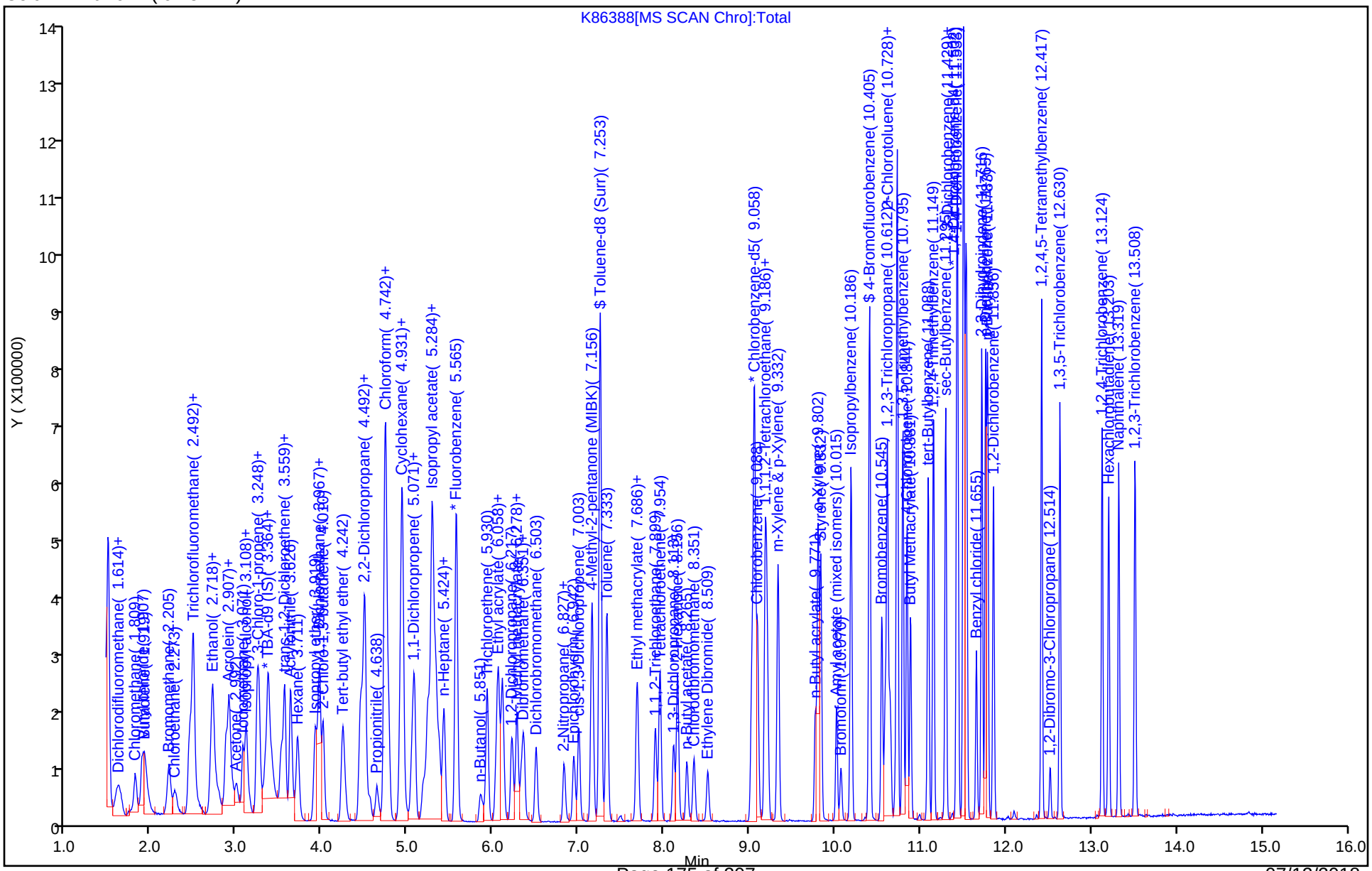
Report Date: 11-Jul-2018 08:52:41 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180710-75214.b\K86388.D

Injection Date:	10-Jul-2018 21:21:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	LCSD			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/06/2018 00:52

Analysis Batch Number: 533800 End Date: 07/06/2018 05:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533800/1		07/06/2018 00:52	1	K86116.D	Rtx-624 0.25(mm)
STD1 460-533800/3 IC		07/06/2018 01:46	1	K86118.D	Rtx-624 0.25(mm)
STD5 460-533800/4 IC		07/06/2018 02:10	1	K86119.D	Rtx-624 0.25(mm)
STD20 460-533800/5 ICIS		07/06/2018 02:35	1	K86120.D	Rtx-624 0.25(mm)
STD50 460-533800/6 IC		07/06/2018 02:59	1	K86121.D	Rtx-624 0.25(mm)
STD200 460-533800/7 IC		07/06/2018 03:23	1	K86122.D	Rtx-624 0.25(mm)
STD500 460-533800/8 IC		07/06/2018 03:48	1	K86123.D	Rtx-624 0.25(mm)
ICV 460-533800/12		07/06/2018 05:26	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/10/2018 20:07

Analysis Batch Number: 535091 End Date: 07/11/2018 06:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-535091/1		07/10/2018 20:07	1	K86385.D	Rtx-624 0.25(mm)
CCVIS 460-535091/2		07/10/2018 20:32	1	K86386.D	Rtx-624 0.25(mm)
LCS 460-535091/3		07/10/2018 20:56	1	K86387.D	Rtx-624 0.25(mm)
LCSD 460-535091/4		07/10/2018 21:21	1	K86388.D	Rtx-624 0.25(mm)
MB 460-535091/7		07/10/2018 22:52	1	K86391.D	Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 23:17	1		Rtx-624 0.25(mm)
ZZZZZ		07/10/2018 23:42	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 00:06	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 00:31	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 00:55	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 01:20	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 01:44	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 02:08	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 02:33	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 03:22	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 03:46	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 04:10	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 04:35	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 04:59	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 05:23	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 05:47	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 06:11	1		Rtx-624 0.25(mm)
460-159405-1		07/11/2018 06:36	1	K86410.D	Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Batch Number: 531949 Batch Start Date: 06/28/18 20:41 Batch Analyst: Malata, Andrew V

Batch Method: 5035 Batch End Date: 06/28/18 20:43

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-159405-C-1	PDI-17-SO-60-062 72018	5035, 8260C	T	+030.733 g	37.84 g	7.107 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159405-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-17-SO-60-06272018	460-159405-1

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-159405-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-17-SO-60-06272018	460-159405-1
PDI-17-SO-62-06272018	460-159405-2

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-17-SO-60-06272018 Lab Sample ID: 460-159405-1

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG ID.:

Matrix: Solid Date Sampled: 06/27/2018 12:15

Reporting Basis: WET Date Received: 06/27/2018 19:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	1.1	1.9	0.28	mg/Kg	J	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-17-SO-62-06272018 Lab Sample ID: 460-159405-2

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG ID.:

Matrix: Solid Date Sampled: 06/27/2018 12:15

Reporting Basis: WET Date Received: 06/27/2018 19:40

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	ND	1.9	0.29	mg/Kg		HF	1	SM 3500 FE D

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Analyst: MDL Batch Start Date: 07/09/2018

Reporting Units: mg/L Analytical Batch No.: 423597

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:45	Ferrous Iron	1.82	2.00	91	90-110		FE 200ppm ICV 00023
2	CCB	14:45	Ferrous Iron	ND					
13	CCV	14:45	Ferrous Iron	1.96	2.00	98	90-110		FE 200ppm ICV 00023
14	CCB	14:45	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 423597 Date: 07/09/2018 14:45							
SM 3500 FE D	MB 480-423597/3	Ferrous Iron	ND		mg/Kg	0.10	1
Batch ID: 423597 Date: 07/09/2018 14:45							
SM 3500 FE D	MB 480-423404/1-A	Ferrous Iron	ND		mg/Kg	2.0	1

6-IN
DUPLICATE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Matrix: Solid

Method	Client Sample ID	Lab Sample ID	Analyte	Result	Unit	RPD	RPD Limit	Qual
Batch ID: 423597 Date: 07/09/2018 14:45								
SM 3500 FE D	PDI-17-SO-62-06272-018	460-159405-2	Ferrous Iron	ND	mg/Kg			
SM 3500 FE D	PDI-17-SO-62-06272-018	460-159405-2 DU	Ferrous Iron	0.399	mg/Kg	NC	20	J

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VI-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 423597 Date: 07/09/2018 14:45											
						LCS Source: FE 200ppm ICV_00023					
SM 3500 FE D	LCS 480-423597/4	Ferrous Iron	1.83		mg/Kg	2.00	92	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159405-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159405-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 460-159405-1

SDG Number:

Matrix: Solid Instrument ID: Genysis Spec2

Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Leach Method: D3987-85

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Ferrous Iron		2	0.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 460-159405-1

SDG Number:

Matrix: Solid Instrument ID: Genysis Spec2

Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (ug/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/06/2018 09:36 End Date: 07/06/2018 09:36

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			09:36																					
460-159405-1	1	T	09:36	X	X																			
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					
ZZZZZZ			09:36																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Instrument ID: Genysis Spec2 Method: SM 3500 FE D

Start Date: 07/09/2018 14:45 End Date: 07/09/2018 14:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Fe2																			
CCV 480-423597/1	1		14:45	X																			
CCB 480-423597/2	1		14:45	X																			
MB 480-423597/3	1	T	14:45	X																			
LCS 480-423597/4	1	T	14:45	X																			
MB 480-423404/1-A	1	Y	14:45	X																			
460-159405-1	1	Y	14:45	X																			
460-159405-2	1	Y	14:45	X																			
460-159405-2 DU	1	Y	14:45	X																			
ZZZZZZ			14:45																				
ZZZZZZ			14:45																				
ZZZZZZ			14:45																				
ZZZZZZ			14:45																				
CCV 480-423597/13	1		14:45	X																			
CCB 480-423597/14	1		14:45	X																			
ZZZZZZ			14:45																				
CCV 480-423597/16			14:45																				
CCB 480-423597/17			14:45																				

Prep Types

T = Total/NA

Y = ASTM Leach

CURVE ON New Spec 2

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

418534

Analyst:	MDL
Start Date:	6-7-18
Start Time:	1245
End Time:	
DATE OF CURVE=	4/6/2018
PIPETTE	
USED SQUARE CUVETTES	
EQL: 0.10	mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.100	0.019
Std. 3	0.500	0.074
Std. 4	1.000	0.160
Std. 5	3.000	0.399

4698376
CURVE SOLUTION: ~~4582863~~

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9977
Slope:	0.13206
Intercept:	0.00890

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	~~3188795~~ 4595762

ICV INFORMATION

Solution #	~~4562862~~ 3305349
~~0.7025 of FAS (3916794) up to 0.5L~~	TM 6-7-18
Concentration (mg/L)	2.00
ICV	True value: 2.00

4696495

LCS Information:

Solution #	4565972
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:

Solution #	4565972
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
	0	25	0		0.000	1	ND	ND		
	0.1	25	0.021		0.000	1	ND	ND		
	0.5	25	0.091		0.000	1	ND	ND		
	1.0	25	0.173		0.000	1	ND	ND		
	3.0	25	0.509		0.000	1	ND	ND		
(2ppm)	ICV	25	0.374		2.1954 ~~0.000~~	1	ND	ND	110%	
	ICB	25	0		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

MDL 6-7-18

1.1 MDL 6-7-18

Calibration

Calib 418534-0 / Ferrous Iron

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

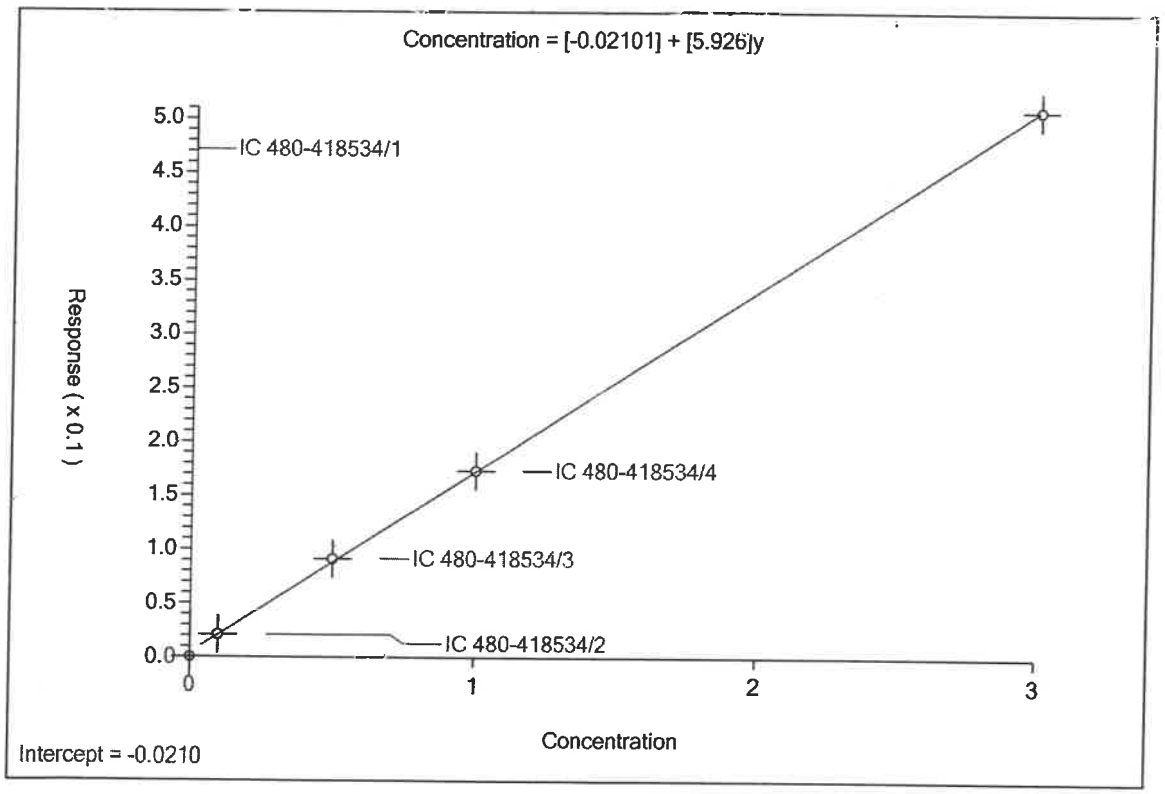
Curve Coefficients

Intercept:	-0.02101
Slope:	5.926

Error Coefficients

Standard Error:	0.0166
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	RF	IS Response	RF	Used
1	IC 480-418534/1	0.0	0.0		NaN		NaN	Y
2	IC 480-418534/2	0.1	0.021		0.052[illegible]		0.21	Y
3	IC 480-418534/3	0.5	0.091		0.045[illegible]		0.182	Y
4	IC 480-418534/4	1.0	0.173		0.04[illegible]		0.173	Y
5	IC 480-418534/5	3.0	0.509		0.04[illegible]		0.169667	Y



423597

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

Analyst:	MDL
Start Date:	7-9-18
Start Time:	1445
End Time:	
DATE OF CURVE=	6/7/2018
PIPETTE	
USED SQUARE CUVETTES	
EQL: 0.10	mg/L

ICV INFORMATION

Solution #		
0.7025 of FAS (3916794) up to 0.5L		
Concentration (mg/L)		2.00
ICV	True value:	2.00

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.100	0.021
Std. 3	0.500	0.091
Std. 4	1.000	0.173
Std. 5	3.000	0.509

CURVE SOLUTION: 4582863

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9999
Slope:	0.16873
Intercept:	0.00357

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	~~3188795~~ A7172 mrf

LCS Information:

Solution #	4749535	
Concentration (mg/L):		2
LCS	True value:	2.00

Matrix Spike Information:

Solution #	4749535	
1.4047 of FAS (3305349) up to 1		1
MS	True Value	1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
	CCV 2 PPM	25	0.310		0.000	1	ND	ND		
	CCB BLANK	25	0		0.000	1	ND	ND		
	MB BLANK	25	0		0.000	1	ND	ND		
	LCS 2 PPM	25	0.313		0.000	1	ND	ND	#VALUE!	
4748588	ASTM Blank	BATCH 423404 25	0.007	0.004	0.000	1	ND	ND		
4748589	460-159405 E-1	25	0.084	0.071	0.000	1	ND	ND		
4748590	460-159405 A-2	25	0.077	0.073	0.000	1	ND	ND		
4748591	460-159405 A-2 DV	25	0.082	0.075	0.000	1	ND	ND		
4748591	460-159550 E-6	25	0.132	0.121	0.000	1	ND	ND		
4748592	" E-6ms	25	0.289	0.123	0.000	1	ND	ND		
4748593	" A-7	25	0.099	0.086	0.000	1	ND	ND		
	" E-8	25	0.243	0.231	0.000	5	ND	ND		5ml->25ml
	CCV 2 PPM	25	0.334		0.000	1	ND	ND		
	CCB BLANK	25	0.003		0.000	1	ND	ND		
4748594	460-159550 A-9	25	0.218	0.204	0.000	5	ND	ND		5ml->25ml
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
	CCV 2 PPM	25	0.321		0.000	1	ND	ND		
	CCB BLANK	25	0.003		0.000	1	ND	ND		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159405-1

SDG No.:

Batch Number: 533937 Batch Start Date: 07/06/18 09:36 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-159405-A-1	PDI-17-SO-60-062 72018	Moisture	T	90	1.04 g	7.63 g	6.27 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	07/06/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	09:56
Date samples were removed from oven	07/07/2018
Oven Temp Out	103 Degrees C
Time Samples were removed from oven	05:15
Oven ID	3
Thermometer ID	162115
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	103 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Batch Number: 418534 Batch Start Date: 06/07/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00020	
IC 480-418534/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-418534/2		SM 3500 FE D		100 mL	100 mL	0.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-418534/3		SM 3500 FE D		100 mL	100 mL	0.091 Absorbance	OK w/o Correction	0.25 mL	
IC 480-418534/4		SM 3500 FE D		100 mL	100 mL	0.173 Absorbance	OK w/o Correction	0.5 mL	
IC 480-418534/5		SM 3500 FE D		100 mL	100 mL	0.509 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Batch Number: 423404 Batch Start Date: 07/08/18 11:38 Batch Analyst: Leader, Michael D

Batch Method: D3987-85 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Final pH			
MB 480-423404/1		D3987-85, SM 3500 FE D		5 g	100 mL	6 SU			
460-159405-E-1	PDI-17-SO-60-062 72018	D3987-85, SM 3500 FE D	Y	5.2983 g	100 mL	6 SU			
460-159405-A-2	PDI-17-SO-62-062 72018	D3987-85, SM 3500 FE D	Y	5.1356 g	100 mL	6 SU			

Batch Notes	
Balance ID	#12
Filter ID	15025084
Final Room Temperature	20.9 Degrees C
Initial Room Temperature	20.5 Degrees C
Room Temperature Thermometer ID	160316917
Rotator ID	1
Tumble End Time	07/09/2018 10:00
Tumble Start Time	07/08/2018 16:00
Uncorrected Final Room Temperature	20.4 Degrees C
Uncorrected Initial Room Temperature	20.0 Degrees C

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159405-1

SDG No.:

Batch Number: 423597 Batch Start Date: 07/09/18 14:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00023
CCV 480-423597/1		SM 3500 FE D		25 mL	25 mL		0.310 Absorbance	OK w/o Correction	0.25 mL
CCB 480-423597/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-423597/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-423597/4		SM 3500 FE D		25 mL	25 mL		0.313 Absorbance	OK w/o Correction	0.25 mL
MB 480-423404/1-A		SM 3500 FE D		25 mL	25 mL	0.004 Absorbance	0.007 Absorbance	OK	
460-159405-E-1-A	PDI-17-SO-60-062 72018	SM 3500 FE D	Y	25 mL	25 mL	0.071 Absorbance	0.084 Absorbance	OK	
460-159405-A-2-A	PDI-17-SO-62-062 72018	SM 3500 FE D	Y	25 mL	25 mL	0.073 Absorbance	0.077 Absorbance	OK	
460-159405-A-2-A DU	PDI-17-SO-62-062 72018	SM 3500 FE D	Y	25 mL	25 mL	0.075 Absorbance	0.082 Absorbance	OK	
CCV 480-423597/13		SM 3500 FE D		25 mL	25 mL		0.334 Absorbance	OK w/o Correction	0.25 mL
CCB 480-423597/14		SM 3500 FE D		25 mL	25 mL		0.003 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Subcontract Data

Shipping and Receiving Documents

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NYSC 460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

07/12/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 159405
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
Preservation Code:					X	X	F	N	F	N	N	N	X	
POI-17-SO-60-06272018	6/27/18	1215	G	Solid			✓	✓						1
POI-17-SO-62-06272018	6/27/18	1215	G	Solid				✓						2
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

460-159405 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by:	Date/Time: 6/27/18 1325	Company: Con	Received by: Date/Time: 6/27/18 1325 Company:
Relinquished by:	Date/Time: 6/27/18 1615	Company: TA	Received by: Date/Time: 6/27/18 1615 Company: T.A
Relinquished by:	Date/Time: 6/27/18 1940	Company: T.A	Received by: Kelly Date/Time: 6/27/18 1940 Company: TACO
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

Page 203 of 207

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 167406

Number of Coolers: 1 IR Gun # 21

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.1 °C	2.6 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/22/16

07/12/2018

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51993.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159405-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 7/10/2018			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	3500_FE_D/ASTM_LEACH	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-17-SO-60-06272018 (460-159405-1)	6/27/18	12:15 Eastern		Solid			X	1	
PDI-17-SO-62-06272018 (460-159405-2)	6/27/18	12:15 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6/28/18 1800	TAL		6/30/18 0900	NAS.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.7°C

Ver: 09/20/2016

07/12/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159405-1

Login Number: 159405
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159405-1

Login Number: 159405
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 07/02/18 09:15 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

TestAmerica Job ID: 460-159405-1
Client Project/Site: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, New York 12110

Attn: Amy Picunas

Authorized for release by:
7/12/2018 1:56:10 PM

Becky Mason, Project Manager II
(413)572-4000
becky.mason@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Definitions/Glossary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 8
QC Sample Results 9
QC Association Summary 14
Lab Chronicle 15
Certification Summary 16
Method Summary 17
Sample Summary 18
Chain of Custody 19
Receipt Checklists 22

Definitions/Glossary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Job ID: 460-159405-1

Laboratory: TestAmerica Edison

Narrative

Job Narrative
460-159405-1

Receipt
The samples were received on 6/27/2018 7:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: PDI-17-SO-60-06272018 (460-159405-1) and PDI-17-SO-62-06272018 (460-159405-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Client Sample ID: PDI-17-SO-60-06272018 — Lab Sample ID: 460-159405-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	0.27	J	0.89	0.16	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	5.7		4.4	0.98	ug/Kg	1	☼	8260C	Total/NA
Acetone	25	B	4.4	3.4	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	5.8		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.0	B	0.89	0.14	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	2.5		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	110		0.89	0.13	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.26	J	1.8	0.22	ug/Kg	1	☼	8260C	Total/NA
Ferrous Iron	1.1	J HF	1.9	0.28	mg/Kg	1		SM 3500 FE D	ASTM Leach

Client Sample ID: PDI-17-SO-62-06272018 — Lab Sample ID: 460-159405-2

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-17-SO-60-06272018
Date Collected: 06/27/18 12:15
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159405-1
Matrix: Solid
Percent Solids: 79.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.89	0.21	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2,2-Tetrachloroethane	ND		0.89	0.19	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.89	0.27	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1,2-Trichloroethane	**0.27**	**J**	0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1-Dichloroethane	ND		0.89	0.18	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,1-Dichloroethene	ND		0.89	0.20	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2,4-Trichlorobenzene	ND		0.89	0.082	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dibromo-3-Chloropropane	ND		0.89	0.41	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichlorobenzene	ND		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichloroethane	ND		0.89	0.26	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dichloropropane	ND		0.89	0.37	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,3-Dichlorobenzene	ND		0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,4-Dichlorobenzene	ND		0.89	0.089	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
2-Butanone (MEK)	**5.7**		4.4	0.98	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
2-Hexanone	ND		4.4	0.69	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
4-Methyl-2-pentanone (MIBK)	ND		4.4	0.59	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Acetone	**25**	**B**	4.4	3.4	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Benzene	ND		0.89	0.23	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromoform	ND		0.89	0.38	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromomethane	ND		0.89	0.42	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Carbon disulfide	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Carbon tetrachloride	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chlorobenzene	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Dibromochloromethane	ND		0.89	0.17	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloroethane	ND		0.89	0.46	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloroform	ND		0.89	0.28	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Chloromethane	ND		0.89	0.39	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
cis-1,2-Dichloroethene	**5.8**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Cyclohexane	ND		0.89	0.20	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Bromodichloromethane	ND		0.89	0.23	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Dichlorodifluoromethane	ND		0.89	0.30	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Ethylbenzene	ND		0.89	0.18	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
1,2-Dibromoethane	ND		0.89	0.16	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Isopropylbenzene	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methyl acetate	ND		4.4	3.8	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methyl tert-butyl ether	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methylcyclohexane	ND		0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Methylene Chloride	**2.0**	**B**	0.89	0.14	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Tetrachloroethene	**2.5**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Toluene	ND		0.89	0.55	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
trans-1,2-Dichloroethene	ND		0.89	0.22	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
trans-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Trichloroethene	**110**		0.89	0.13	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Trichlorofluoromethane	ND		0.89	0.36	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Vinyl chloride	ND		0.89	0.48	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Xylenes, Total	**0.26**	**J**	1.8	0.22	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
cis-1,3-Dichloropropene	ND		0.89	0.24	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1
Styrene	ND		0.89	0.11	ug/Kg	☼	06/28/18 20:41	07/11/18 06:36	1

Client Sample ID: PDI-17-SO-60-06272018

Lab Sample ID: 460-159405-1
Date Collected: 06/27/18 12:15
Matrix: Solid
Date Received: 06/27/18 19:40
Percent Solids: 79.4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*78 - 135*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
Toluene-d8 (Surr)	*105*		*73 - 121*	*06/28/18 20:41*	*07/11/18 06:36*	*1*
Dibromofluoromethane (Surr)	*107*		*61 - 149*	*06/28/18 20:41*	*07/11/18 06:36*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.6**		1.0	1.0	%			07/06/18 09:36	1
Percent Solids	**79.4**		1.0	1.0	%			07/06/18 09:36	1

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**1.1**	**J HF**	1.9	0.28	mg/Kg			07/09/18 14:45	1

Client Sample ID: PDI-17-SO-62-06272018

Lab Sample ID: 460-159405-2
Date Collected: 06/27/18 12:15
Matrix: Solid
Date Received: 06/27/18 19:40

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND	HF	1.9	0.29	mg/Kg			07/09/18 14:45	1

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159405-1	PDI-17-SO-60-06272018	104	100	105	107
LCS 460-535091/3	Lab Control Sample	99	99	105	103
LCSD 460-535091/4	Lab Control Sample Dup	95	99	104	101
MB 460-535091/7	Method Blank	94	99	104	105

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-535091/7
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/10/18 22:52	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/10/18 22:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/10/18 22:52	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/10/18 22:52	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/10/18 22:52	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/10/18 22:52	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/10/18 22:52	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/10/18 22:52	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/10/18 22:52	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/10/18 22:52	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/10/18 22:52	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/10/18 22:52	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/10/18 22:52	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/10/18 22:52	1
Acetone	3.84	J	5.0	3.8	ug/Kg			07/10/18 22:52	1
Benzene	ND		1.0	0.26	ug/Kg			07/10/18 22:52	1
Bromoform	ND		1.0	0.43	ug/Kg			07/10/18 22:52	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/10/18 22:52	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/10/18 22:52	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/10/18 22:52	1
Chloroform	ND		1.0	0.32	ug/Kg			07/10/18 22:52	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/10/18 22:52	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/10/18 22:52	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/10/18 22:52	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/10/18 22:52	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/10/18 22:52	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/10/18 22:52	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/10/18 22:52	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/10/18 22:52	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/10/18 22:52	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/10/18 22:52	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/10/18 22:52	1
Methylene Chloride	0.227	J	1.0	0.16	ug/Kg			07/10/18 22:52	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
Toluene	ND		1.0	0.63	ug/Kg			07/10/18 22:52	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/10/18 22:52	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/10/18 22:52	1
Trichlorofluoromethane	0.471	J	1.0	0.41	ug/Kg			07/10/18 22:52	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/10/18 22:52	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/10/18 22:52	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/10/18 22:52	1
Styrene	ND		1.0	0.12	ug/Kg			07/10/18 22:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*		*07/10/18 22:52*	*1*
4-Bromofluorobenzene	*99*		*67 - 126*		*07/10/18 22:52*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*		*07/10/18 22:52*	*1*
Dibromofluoromethane (Surr)	*105*		*61 - 149*		*07/10/18 22:52*	*1*

Lab Sample ID: LCS 460-535091/3
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	19.2		ug/Kg		96	80 - 125
1,1,2,2-Tetrachloroethane	20.0	20.9		ug/Kg		104	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.5		ug/Kg		107	78 - 132
1,1,2-Trichloroethane	20.0	20.6		ug/Kg		103	76 - 124
1,1-Dichloroethane	20.0	21.6		ug/Kg		108	80 - 124
1,1-Dichloroethene	20.0	20.5		ug/Kg		103	79 - 132
1,2,4-Trichlorobenzene	20.0	17.3		ug/Kg		87	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	17.8		ug/Kg		89	65 - 129
1,2-Dichlorobenzene	20.0	18.1		ug/Kg		90	80 - 121
1,2-Dichloroethane	20.0	17.6		ug/Kg		88	68 - 120
1,2-Dichloropropane	20.0	21.2		ug/Kg		106	77 - 124
1,3-Dichlorobenzene	20.0	18.2		ug/Kg		91	79 - 124
1,4-Dichlorobenzene	20.0	17.9		ug/Kg		90	79 - 121
2-Butanone (MEK)	100	77.8		ug/Kg		78	61 - 140
2-Hexanone	100	90.3		ug/Kg		90	78 - 120
4-Methyl-2-pentanone (MIBK)	100	91.6		ug/Kg		92	80 - 120
Acetone	100	86.3		ug/Kg		86	75 - 120
Benzene	20.0	20.9		ug/Kg		105	75 - 127
Bromoform	20.0	16.6		ug/Kg		83	19 - 150
Bromomethane	20.0	19.2		ug/Kg		96	59 - 136
Carbon disulfide	20.0	21.0		ug/Kg		105	74 - 130
Carbon tetrachloride	20.0	18.5		ug/Kg		93	77 - 138
Chlorobenzene	20.0	18.9		ug/Kg		94	80 - 120
Dibromochloromethane	20.0	17.7		ug/Kg		88	67 - 143
Chloroethane	20.0	20.9		ug/Kg		105	50 - 139
Chloroform	20.0	19.8		ug/Kg		99	80 - 122
Chloromethane	20.0	20.2		ug/Kg		101	66 - 128
cis-1,2-Dichloroethene	20.0	19.1		ug/Kg		95	80 - 123
Cyclohexane	20.0	21.1		ug/Kg		106	67 - 135
Bromodichloromethane	20.0	18.4		ug/Kg		92	76 - 129
Dichlorodifluoromethane	20.0	18.3		ug/Kg		92	72 - 127
Ethylbenzene	20.0	19.4		ug/Kg		97	79 - 124
1,2-Dibromoethane	20.0	18.9		ug/Kg		94	80 - 122
Isopropylbenzene	20.0	19.0		ug/Kg		95	80 - 125
Methyl acetate	40.0	41.5		ug/Kg		104	73 - 123
Methyl tert-butyl ether	20.0	20.0		ug/Kg		100	80 - 120
Methylcyclohexane	20.0	20.4		ug/Kg		102	71 - 137
Methylene Chloride	20.0	19.6		ug/Kg		98	79 - 128
Tetrachloroethene	20.0	18.3		ug/Kg		91	73 - 130
Toluene	20.0	19.4		ug/Kg		97	75 - 122
trans-1,2-Dichloroethene	20.0	20.6		ug/Kg		103	80 - 129
trans-1,3-Dichloropropene	20.0	18.7		ug/Kg		94	72 - 121
Trichloroethene	20.0	19.2		ug/Kg		96	79 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-535091/3
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	19.7		ug/Kg		99	68 - 136
Vinyl chloride	20.0	20.8		ug/Kg		104	70 - 134
cis-1,3-Dichloropropene	20.0	19.7		ug/Kg		98	75 - 124
Styrene	20.0	19.3		ug/Kg		96	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 135*
4-Bromofluorobenzene	*99*		*67 - 126*
Toluene-d8 (Surr)	*105*		*73 - 121*
Dibromofluoromethane (Surr)	*103*		*61 - 149*

Lab Sample ID: LCSD 460-535091/4
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	18.6		ug/Kg		93	80 - 125	3	30
1,1,2,2-Tetrachloroethane	20.0	19.2		ug/Kg		96	72 - 131	8	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	21.6		ug/Kg		108	78 - 132	1	30
1,1,2-Trichloroethane	20.0	19.2		ug/Kg		96	76 - 124	7	30
1,1-Dichloroethane	20.0	20.2		ug/Kg		101	80 - 124	7	30
1,1-Dichloroethene	20.0	19.2		ug/Kg		96	79 - 132	7	30
1,2,4-Trichlorobenzene	20.0	17.4		ug/Kg		87	74 - 124	0	30
1,2-Dibromo-3-Chloropropane	20.0	16.5		ug/Kg		83	65 - 129	7	30
1,2-Dichlorobenzene	20.0	17.6		ug/Kg		88	80 - 121	3	30
1,2-Dichloroethane	20.0	16.5		ug/Kg		83	68 - 120	6	30
1,2-Dichloropropane	20.0	19.5		ug/Kg		98	77 - 124	8	30
1,3-Dichlorobenzene	20.0	17.8		ug/Kg		89	79 - 124	2	30
1,4-Dichlorobenzene	20.0	17.7		ug/Kg		88	79 - 121	2	30
2-Butanone (MEK)	100	80.4		ug/Kg		80	61 - 140	3	30
2-Hexanone	100	86.2		ug/Kg		86	78 - 120	5	30
4-Methyl-2-pentanone (MIBK)	100	87.7		ug/Kg		88	80 - 120	4	30
Acetone	100	77.9		ug/Kg		78	75 - 120	10	30
Benzene	20.0	19.3		ug/Kg		97	75 - 127	8	30
Bromoform	20.0	15.3		ug/Kg		77	19 - 150	8	30
Bromomethane	20.0	20.3		ug/Kg		101	59 - 136	6	30
Carbon disulfide	20.0	19.9		ug/Kg		100	74 - 130	5	30
Carbon tetrachloride	20.0	18.1		ug/Kg		91	77 - 138	2	30
Chlorobenzene	20.0	18.0		ug/Kg		90	80 - 120	4	30
Dibromochloromethane	20.0	16.2		ug/Kg		81	67 - 143	9	30
Chloroethane	20.0	22.5		ug/Kg		112	50 - 139	7	30
Chloroform	20.0	18.0		ug/Kg		90	80 - 122	9	30
Chloromethane	20.0	21.8		ug/Kg		109	66 - 128	7	30
cis-1,2-Dichloroethene	20.0	18.5		ug/Kg		92	80 - 123	3	30
Cyclohexane	20.0	21.3		ug/Kg		106	67 - 135	1	30
Bromodichloromethane	20.0	17.8		ug/Kg		89	76 - 129	4	30
Dichlorodifluoromethane	20.0	19.6		ug/Kg		98	72 - 127	7	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-535091/4
Matrix: Solid
Analysis Batch: 535091

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	18.4		ug/Kg		92	79 - 124	5	30
1,2-Dibromoethane			20.0	17.7		ug/Kg		88	80 - 122	6	30
Isopropylbenzene			20.0	18.5		ug/Kg		92	80 - 125	3	30
Methyl acetate			40.0	38.5		ug/Kg		96	73 - 123	8	30
Methyl tert-butyl ether			20.0	18.3		ug/Kg		92	80 - 120	9	30
Methylcyclohexane			20.0	20.3		ug/Kg		101	71 - 137	1	30
Methylene Chloride			20.0	18.7		ug/Kg		94	79 - 128	5	30
Tetrachloroethene			20.0	17.7		ug/Kg		88	73 - 130	3	30
Toluene			20.0	18.6		ug/Kg		93	75 - 122	4	30
trans-1,2-Dichloroethene			20.0	19.3		ug/Kg		97	80 - 129	6	30
trans-1,3-Dichloropropene			20.0	17.7		ug/Kg		88	72 - 121	6	30
Trichloroethene			20.0	18.5		ug/Kg		93	79 - 122	4	30
Trichlorofluoromethane			20.0	21.1		ug/Kg		106	68 - 136	7	30
Vinyl chloride			20.0	22.1		ug/Kg		111	70 - 134	6	30
cis-1,3-Dichloropropene			20.0	18.0		ug/Kg		90	75 - 124	9	30
Styrene			20.0	18.4		ug/Kg		92	78 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*78 - 135*
4-Bromofluorobenzene	*99*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*101*		*61 - 149*

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-423597/3
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.015	mg/Kg			07/09/18 14:45	1

Lab Sample ID: LCS 480-423597/4
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron			2.00	1.83		mg/Kg		92	90 - 110

Lab Sample ID: MB 480-423404/1-A
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		2.0	0.30	mg/Kg			07/09/18 14:45	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 460-159405-2 DU
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: PDI-17-SO-62-06272018
Prep Type: ASTM Leach

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ferrous Iron	ND	HF		0.399	J	mg/Kg				NC	20

QC Association Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

GC/MS VOA

Prep Batch: 531949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	5035	

Analysis Batch: 535091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	8260C	531949
MB 460-535091/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-535091/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-535091/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Leach Batch: 423404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	ASTM Leach	Solid	D3987-85	
460-159405-2	PDI-17-SO-62-06272018	ASTM Leach	Solid	D3987-85	
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	D3987-85	
460-159405-2 DU	PDI-17-SO-62-06272018	ASTM Leach	Solid	D3987-85	

Analysis Batch: 423597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	ASTM Leach	Solid	SM 3500 FE D	423404
460-159405-2	PDI-17-SO-62-06272018	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423597/3	Method Blank	Total/NA	Solid	SM 3500 FE D	
LCS 480-423597/4	Lab Control Sample	Total/NA	Solid	SM 3500 FE D	
460-159405-2 DU	PDI-17-SO-62-06272018	ASTM Leach	Solid	SM 3500 FE D	423404

Analysis Batch: 533937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159405-1	PDI-17-SO-60-06272018	Total/NA	Solid	Moisture	

Lab Chronicle

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Client Sample ID: PDI-17-SO-60-06272018
Date Collected: 06/27/18 12:15
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159405-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	533937	07/06/18 09:36	BJP	TAL EDI
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Client Sample ID: PDI-17-SO-60-06272018
Date Collected: 06/27/18 12:15
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159405-1
Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			531949	06/28/18 20:41	AVM	TAL EDI
Total/NA	Analysis	8260C		1	535091	07/11/18 06:36	XXC	TAL EDI

Client Sample ID: PDI-17-SO-62-06272018
Date Collected: 06/27/18 12:15
Date Received: 06/27/18 19:40

Lab Sample ID: 460-159405-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600
TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Solid	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
5035	Closed System Purge and Trap	SW846	TAL EDI
D3987-85	ASTM Leaching Procedure	ASTM	TAL BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159405-1	PDI-17-SO-60-06272018	Solid	06/27/18 12:15	06/27/18 19:40
460-159405-2	PDI-17-SO-62-06272018	Solid	06/27/18 12:15	06/27/18 19:40

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

NY
460501

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

7/12/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-26474.4
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 169405
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days):			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	E	N	N	N		
POI-17-SO-60-06272018	6/27/18	1215	G	Solid			✓	✓						1
POI-17-SO-62-06272018	6/27/18	1215	G	Solid				✓						2
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

460-159405 Chain of Custody

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by:	Date/Time: 6/27/18 1325	Company: CDM	Received by:		Date/Time: 6/27/18 1328	Company: TA	
Relinquished by:	Date/Time: 6/27/18 1615	Company: TA	Received by:		Date/Time: 6/27/18 19:40	Company: F.A	
Relinquished by:	Date/Time: 6/27/18 19:40	Company: F.A	Received by:		Date/Time: 6/27/18 1940	Company: TAEDI	
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 08/04/2016

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159406

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2.1 °C	2.1 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* *Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: [signature] Date: 6/26/16

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-51993.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159405-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 7/10/2018			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	3500_FE_D/ASTM_LEACH	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-17-SO-60-06272018 (460-159405-1)	6/27/18	12:15 Eastern		Solid			X	1	
PDI-17-SO-62-06272018 (460-159405-2)	6/27/18	12:15 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	6/29/18 1800	TAL		6/30/18 0900	TAL.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 3.7°C

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159405-1

Login Number: 159405
List Number: 1
Creator: Meyers, Gary

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	No: Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159405-1

Login Number: 159405
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 07/02/18 09:15 AM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

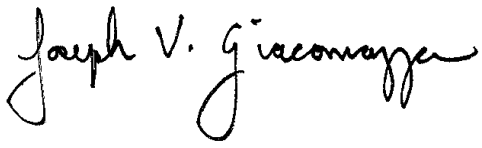
ANALYTICAL REPORT

Job Number: 460-159550-1

Job Description: Former Aluminum Louvre

For:
CDM Smith, Inc.
11 British American Blvd
Suite 200
Latham, NY 12110

Attention: Amy Picunas



Approved for release.
Joe V Giacomazza
Project Management Assistant II
7/17/2018 4:03 PM

Designee for
Becky C Mason, Project Manager II
10 Hazelwood Drive, Amherst, NY, 14228-2298
(413)572-4000
becky.mason@testamericainc.com
07/17/2018

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report.

TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

Table of Contents

Cover Title Page 1

Data Summaries 4

Definitions 4

Report Narrative 5

Sample Summary 6

Detection Summary 7

Client Sample Results 9

Surrogate Summary 18

QC Sample Results 19

QC Association 30

Chronicle 32

Method Summary 35

Certification Summary 36

Organic Sample Data 37

GC/MS VOA 37

8260C 37

8260C QC Summary 38

8260C Sample Data 64

Standards Data 165

8260C ICAL Data 165

8260C CCAL Data 354

Raw QC Data 389

8260C Tune Data 389

8260C Blank Data 404

8260C LCS/LCSD Data 422

8260C Run Logs 457

Table of Contents

8260C Prep Data 462

Inorganic Sample Data 464

General Chemistry Data 464

Gen Chem Cover Page 465

Gen Chem Sample Data 467

Gen Chem QC Data 471

Gen Chem ICV/CCV 471

Gen Chem Blanks 472

Gen Chem MS/MSD/PDS 473

Gen Chem LCS/LCSD 474

Gen Chem MDL 475

Gen Chem Analysis Run Log 479

Gen Chem Raw Data 481

Gen Chem Prep Data 484

Shipping and Receiving Documents 488

Client Chain of Custody 489

Sample Receipt Checklist 493

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job Narrative
460-159550-1

Comments
No additional comments.

Receipt
The samples were received on 6/29/2018 7:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.1° C.

GC/MS VOA
Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 460-534459 recovered outside control limits for the following analyte: 1,2,4-Trichlorobenzene. This analyte was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for analytical batch 460-535482 recovered outside control limits for the following analyte: Methyl acetate. This analyte was biased high in the LCSD and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry
Method(s) SM 3500 FE D: This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. The following samples has been qualified with the "HF" flag to indicate analysis was performed in the laboratory outside the 15 minute timeframe: PDI-19-SO-79-06282018 (460-159550-6), PDI-19-SO-80-06292018 (460-159550-7), PDI-20-SO-73-06292018 (460-159550-8) and PDI-20-SO-74-06292018 (460-159550-9).

Method(s) SM 3500 FE D: The following samples were diluted due to color and turbidity PDI-20-SO-73-06292018 (460-159550-8) and PDI-20-SO-74-06292018 (460-159550-9). Elevated reporting limits (RL) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159550-1	PDI-TB-06282018	Water	06/28/18 00:00	06/29/18 19:00
460-159550-2	PDI-19-WG-85-06282018	Water	06/28/18 14:45	06/29/18 19:00
460-159550-3	PDI-FB-06292018	Water	06/29/18 09:15	06/29/18 19:00
460-159550-4	PDI-20-WG-85-06292018	Water	06/29/18 12:00	06/29/18 19:00
460-159550-5	PDI-18-SO-21-06282018	Solid	06/28/18 09:35	06/29/18 19:00
460-159550-6	PDI-19-SO-79-06282018	Solid	06/28/18 01:30	06/29/18 19:00
460-159550-7	PDI-19-SO-80-06292018	Solid	06/28/18 14:35	06/29/18 19:00
460-159550-8	PDI-20-SO-73-06292018	Solid	06/29/18 11:50	06/29/18 19:00
460-159550-9	PDI-20-SO-74-06292018	Solid	06/29/18 11:55	06/29/18 19:00

Detection Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159550-1

Client Sample ID: PDI-TB-06282018 — Lab Sample ID: 460-159550-1

No Detections.

Client Sample ID: PDI-19-WG-85-06282018 — Lab Sample ID: 460-159550-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.1		1.0	0.24	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.50	J	1.0	0.43	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.72	J	1.0	0.26	ug/L	1		8260C	Total/NA
Acetone	13		5.0	5.0	ug/L	1		8260C	Total/NA
Dibromochloromethane	0.44	J	1.0	0.28	ug/L	1		8260C	Total/NA
Chloromethane	0.31	J	1.0	0.14	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	17		1.0	0.22	ug/L	1		8260C	Total/NA
Methylene Chloride	0.38	J	1.0	0.32	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.9		1.0	0.25	ug/L	1		8260C	Total/NA
Toluene	0.67	J	1.0	0.38	ug/L	1		8260C	Total/NA
Trichloroethene	460		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-FB-06292018 — Lab Sample ID: 460-159550-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	8.1		5.0	1.9	ug/L	1		8260C	Total/NA
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
Methylene Chloride	4.6		1.0	0.32	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-20-WG-85-06292018 — Lab Sample ID: 460-159550-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		5.0	5.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	0.61	J	1.0	0.22	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.29	J	1.0	0.25	ug/L	1		8260C	Total/NA
Trichloroethene	14		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: PDI-18-SO-21-06282018 — Lab Sample ID: 460-159550-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichlorobenzene	1.4		0.90	0.13	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	4.0	J	4.5	1.0	ug/Kg	1	☼	8260C	Total/NA
Acetone	26	B	4.5	3.4	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	1.7		0.90	0.14	ug/Kg	1	☼	8260C	Total/NA
Isopropylbenzene	0.16	J	0.90	0.11	ug/Kg	1	☼	8260C	Total/NA
Methylcyclohexane	0.36	J	0.90	0.14	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.81	J B	0.90	0.15	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	27		0.90	0.13	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	17		0.90	0.13	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.55	J	1.8	0.23	ug/Kg	1	☼	8260C	Total/NA

Client Sample ID: PDI-19-SO-79-06282018 — Lab Sample ID: 460-159550-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.0		3.9	3.0	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	0.24	J	0.78	0.12	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	2.4	B	0.78	0.13	ug/Kg	1	☼	8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-19-SO-79-06282018 (Continued) — Lab Sample ID: 460-159550-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	0.38	J	0.78	0.11	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	9.8		0.78	0.11	ug/Kg	1	☼	8260C	Total/NA
Ferrous Iron	0.88	J HF	2.0	0.30	mg/Kg	1		SM 3500 FE D	ASTM Leach

Client Sample ID: PDI-19-SO-80-06292018 — Lab Sample ID: 460-159550-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	1.1	J HF	1.9	0.29	mg/Kg	1		SM 3500 FE D	ASTM Leach

Client Sample ID: PDI-20-SO-73-06292018 — Lab Sample ID: 460-159550-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.96		0.82	0.19	ug/Kg	1	☼	8260C	Total/NA
1,1-Dichloroethene	0.19	J	0.82	0.19	ug/Kg	1	☼	8260C	Total/NA
1,2-Dichlorobenzene	0.26	J	0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
2-Butanone (MEK)	4.7		4.1	0.91	ug/Kg	1	☼	8260C	Total/NA
Acetone	20		4.1	3.1	ug/Kg	1	☼	8260C	Total/NA
cis-1,2-Dichloroethene	11		0.82	0.13	ug/Kg	1	☼	8260C	Total/NA
Methylene Chloride	0.61	J B	0.82	0.13	ug/Kg	1	☼	8260C	Total/NA
Tetrachloroethene	34		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Trichloroethene	400		0.82	0.12	ug/Kg	1	☼	8260C	Total/NA
Xylenes, Total	0.28	J	1.6	0.21	ug/Kg	1	☼	8260C	Total/NA
Ferrous Iron	4.6	J HF	9.2	1.4	mg/Kg	5		SM 3500 FE D	ASTM Leach

Client Sample ID: PDI-20-SO-74-06292018 — Lab Sample ID: 460-159550-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ferrous Iron	6.2	J HF	10	1.5	mg/Kg	5		SM 3500 FE D	ASTM Leach

This Detection Summary does not include radiochemical test results.

Client Sample ID: PDI-TB-06282018

Date Collected: 06/28/18 00:00
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 02:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 02:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 02:32	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 02:32	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 02:32	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 02:32	1
1,2,4-Trichlorobenzene	ND	*	1.0	0.37	ug/L			07/09/18 02:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 02:32	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 02:32	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 02:32	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 02:32	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 02:32	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 02:32	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 02:32	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 02:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 02:32	1
Acetone	ND		5.0	5.0	ug/L			07/09/18 02:32	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 02:32	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 02:32	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 02:32	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 02:32	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 02:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 02:32	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 02:32	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 02:32	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 02:32	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 02:32	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 02:32	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 02:32	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 02:32	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 02:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 02:32	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 02:32	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 02:32	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 02:32	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 02:32	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 02:32	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 02:32	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 02:32	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 02:32	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 02:32	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 02:32	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 02:32	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 02:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 02:32	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 02:32	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 02:32	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 02:32	1

Client Sample ID: PDI-TB-06282018

Lab Sample ID: 460-159550-1

Date Collected: 06/28/18 00:00
Matrix: Water
Date Received: 06/29/18 19:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		74 - 132		07/09/18 02:32	1
4-Bromofluorobenzene	97		77 - 124		07/09/18 02:32	1
Toluene-d8 (Surr)	98		80 - 120		07/09/18 02:32	1
Dibromofluoromethane (Surr)	105		72 - 131		07/09/18 02:32	1

Client Sample ID: PDI-19-WG-85-06282018

Lab Sample ID: 460-159550-2

Date Collected: 06/28/18 14:45
Matrix: Water
Date Received: 06/29/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**2.1**		1.0	0.24	ug/L			07/09/18 03:19	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 03:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 03:19	1
1,1,2-Trichloroethane	**0.50**	**J**	1.0	0.43	ug/L			07/09/18 03:19	1
1,1-Dichloroethane	**0.72**	**J**	1.0	0.26	ug/L			07/09/18 03:19	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 03:19	1
1,2,4-Trichlorobenzene	ND	*	1.0	0.37	ug/L			07/09/18 03:19	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 03:19	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 03:19	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 03:19	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 03:19	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 03:19	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 03:19	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 03:19	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 03:19	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 03:19	1
Acetone	**13**		5.0	5.0	ug/L			07/09/18 03:19	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 03:19	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 03:19	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 03:19	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 03:19	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 03:19	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 03:19	1
Dibromochloromethane	**0.44**	**J**	1.0	0.28	ug/L			07/09/18 03:19	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 03:19	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 03:19	1
Chloromethane	**0.31**	**J**	1.0	0.14	ug/L			07/09/18 03:19	1
cis-1,2-Dichloroethene	**17**		1.0	0.22	ug/L			07/09/18 03:19	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 03:19	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 03:19	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 03:19	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 03:19	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 03:19	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 03:19	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 03:19	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 03:19	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 03:19	1
Methylene Chloride	**0.38**	**J**	1.0	0.32	ug/L			07/09/18 03:19	1
Tetrachloroethene	**1.9**		1.0	0.25	ug/L			07/09/18 03:19	1

Client Sample ID: PDI-19-WG-85-06282018

Date Collected: 06/28/18 14:45
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-2
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	**0.67**	**J**	1.0	0.38	ug/L			07/09/18 03:19	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 03:19	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 03:19	1
Trichloroethene	**460**		1.0	0.31	ug/L			07/09/18 03:19	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 03:19	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 03:19	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 03:19	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 03:19	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*116*		*74 - 132*		*07/09/18 03:19*	*1*
4-Bromofluorobenzene	*106*		*77 - 124*		*07/09/18 03:19*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/18 03:19*	*1*
Dibromofluoromethane (Surr)	*102*		*72 - 131*		*07/09/18 03:19*	*1*

Client Sample ID: PDI-FB-06292018

Date Collected: 06/29/18 09:15
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 02:56	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 02:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 02:56	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 02:56	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 02:56	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 02:56	1
1,2,4-Trichlorobenzene	ND	*	1.0	0.37	ug/L			07/09/18 02:56	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 02:56	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 02:56	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 02:56	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 02:56	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 02:56	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 02:56	1
2-Butanone (MEK)	**8.1**		5.0	1.9	ug/L			07/09/18 02:56	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 02:56	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 02:56	1
Acetone	**12**		5.0	5.0	ug/L			07/09/18 02:56	1
Benzene	ND		1.0	0.43	ug/L			07/09/18 02:56	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 02:56	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 02:56	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 02:56	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 02:56	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 02:56	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 02:56	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 02:56	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 02:56	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 02:56	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/09/18 02:56	1

Client Sample ID: PDI-FB-06292018

Date Collected: 06/29/18 09:15
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-3
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 02:56	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 02:56	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 02:56	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 02:56	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 02:56	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 02:56	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 02:56	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 02:56	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 02:56	1
Methylene Chloride	**4.6**		1.0	0.32	ug/L			07/09/18 02:56	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/09/18 02:56	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 02:56	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 02:56	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 02:56	1
Trichloroethene	ND		1.0	0.31	ug/L			07/09/18 02:56	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 02:56	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 02:56	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 02:56	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 02:56	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 02:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*74 - 132*		*07/09/18 02:56*	*1*
4-Bromofluorobenzene	*91*		*77 - 124*		*07/09/18 02:56*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*		*07/09/18 02:56*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/09/18 02:56*	*1*

Client Sample ID: PDI-20-WG-85-06292018

Date Collected: 06/29/18 12:00
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-4
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/09/18 03:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/09/18 03:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/09/18 03:42	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/09/18 03:42	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/09/18 03:42	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/09/18 03:42	1
1,2,4-Trichlorobenzene	ND	*	1.0	0.37	ug/L			07/09/18 03:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/09/18 03:42	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/09/18 03:42	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/09/18 03:42	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/09/18 03:42	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/09/18 03:42	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/09/18 03:42	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/09/18 03:42	1
2-Hexanone	ND		5.0	2.9	ug/L			07/09/18 03:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/09/18 03:42	1
Acetone	**12**		5.0	5.0	ug/L			07/09/18 03:42	1

Client Sample ID: PDI-20-WG-85-06292018

Lab Sample ID: 460-159550-4

Date Collected: 06/29/18 12:00
Matrix: Water
Date Received: 06/29/18 19:00

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0	0.43	ug/L			07/09/18 03:42	1
Bromoform	ND		1.0	0.54	ug/L			07/09/18 03:42	1
Bromomethane	ND		1.0	1.0	ug/L			07/09/18 03:42	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/09/18 03:42	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/09/18 03:42	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/09/18 03:42	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/09/18 03:42	1
Chloroethane	ND		1.0	0.32	ug/L			07/09/18 03:42	1
Chloroform	ND		1.0	0.33	ug/L			07/09/18 03:42	1
Chloromethane	ND		1.0	0.14	ug/L			07/09/18 03:42	1
cis-1,2-Dichloroethene	**0.61**	**J**	1.0	0.22	ug/L			07/09/18 03:42	1
Cyclohexane	ND		1.0	0.32	ug/L			07/09/18 03:42	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/09/18 03:42	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/09/18 03:42	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/09/18 03:42	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/09/18 03:42	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/09/18 03:42	1
Methyl acetate	ND		5.0	0.31	ug/L			07/09/18 03:42	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/09/18 03:42	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/09/18 03:42	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/09/18 03:42	1
Tetrachloroethene	**0.29**	**J**	1.0	0.25	ug/L			07/09/18 03:42	1
Toluene	ND		1.0	0.38	ug/L			07/09/18 03:42	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/09/18 03:42	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/09/18 03:42	1
Trichloroethene	**14**		1.0	0.31	ug/L			07/09/18 03:42	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/09/18 03:42	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/09/18 03:42	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/09/18 03:42	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/09/18 03:42	1
Styrene	ND		1.0	0.42	ug/L			07/09/18 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*125*		*74 - 132*		*07/09/18 03:42*	*1*
4-Bromofluorobenzene	*98*		*77 - 124*		*07/09/18 03:42*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*07/09/18 03:42*	*1*
Dibromofluoromethane (Surr)	*109*		*72 - 131*		*07/09/18 03:42*	*1*

Client Sample ID: PDI-18-SO-21-06282018

Lab Sample ID: 460-159550-5

Date Collected: 06/28/18 09:35
Matrix: Solid
Date Received: 06/29/18 19:00
Percent Solids: 78.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.90	0.21	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,1,2,2-Tetrachloroethane	ND		0.90	0.19	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.90	0.27	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,1,2-Trichloroethane	ND		0.90	0.16	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,1-Dichloroethane	ND		0.90	0.19	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,1-Dichloroethene	ND		0.90	0.20	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1

Client Sample ID: PDI-18-SO-21-06282018

Date Collected: 06/28/18 09:35
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-5

Matrix: Solid
Percent Solids: 78.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.90	0.083	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,2-Dibromo-3-Chloropropane	ND		0.90	0.42	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,2-Dichlorobenzene	**1.4**		0.90	0.13	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,2-Dichloroethane	ND		0.90	0.27	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,2-Dichloropropane	ND		0.90	0.38	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,3-Dichlorobenzene	ND		0.90	0.14	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,4-Dichlorobenzene	ND		0.90	0.090	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
2-Butanone (MEK)	**4.0**	**J**	4.5	1.0	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
2-Hexanone	ND		4.5	0.70	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		4.5	0.60	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Acetone	**26**	**B**	4.5	3.4	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Benzene	ND		0.90	0.23	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Bromoform	ND		0.90	0.38	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Bromomethane	ND		0.90	0.43	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Carbon disulfide	ND		0.90	0.24	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Carbon tetrachloride	ND		0.90	0.16	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Chlorobenzene	ND		0.90	0.16	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Dibromochloromethane	ND		0.90	0.18	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Chloroethane	ND		0.90	0.47	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Chloroform	ND		0.90	0.29	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Chloromethane	ND		0.90	0.39	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
cis-1,2-Dichloroethene	**1.7**		0.90	0.14	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Cyclohexane	ND		0.90	0.20	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Bromodichloromethane	ND		0.90	0.23	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Dichlorodifluoromethane	ND		0.90	0.31	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Ethylbenzene	ND		0.90	0.18	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
1,2-Dibromoethane	ND		0.90	0.16	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Isopropylbenzene	**0.16**	**J**	0.90	0.11	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Methyl acetate	ND		4.5	3.9	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Methyl tert-butyl ether	ND		0.90	0.11	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Methylcyclohexane	**0.36**	**J**	0.90	0.14	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Methylene Chloride	**0.81**	**J B**	0.90	0.15	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Tetrachloroethene	**27**		0.90	0.13	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Toluene	ND		0.90	0.56	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
trans-1,2-Dichloroethene	ND		0.90	0.22	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
trans-1,3-Dichloropropene	ND		0.90	0.24	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Trichloroethene	**17**		0.90	0.13	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Trichlorofluoromethane	ND		0.90	0.37	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Vinyl chloride	ND		0.90	0.49	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Xylenes, Total	**0.55**	**J**	1.8	0.23	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
cis-1,3-Dichloropropene	ND		0.90	0.25	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1
Styrene	ND		0.90	0.11	ug/Kg	☼	06/30/18 10:18	07/11/18 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*78 - 135*	*06/30/18 10:18*	*07/11/18 13:14*	*1*
4-Bromofluorobenzene	*99*		*67 - 126*	*06/30/18 10:18*	*07/11/18 13:14*	*1*
Toluene-d8 (Surr)	*106*		*73 - 121*	*06/30/18 10:18*	*07/11/18 13:14*	*1*
Dibromofluoromethane (Surr)	*106*		*61 - 149*	*06/30/18 10:18*	*07/11/18 13:14*	*1*

Client Sample ID: PDI-19-SO-79-06282018

Date Collected: 06/28/18 01:30
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-6

Matrix: Solid
Percent Solids: 83.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		0.78	0.18	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,1,2,2-Tetrachloroethane	ND		0.78	0.17	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.78	0.24	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,1,2-Trichloroethane	ND		0.78	0.14	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,1-Dichloroethane	ND		0.78	0.16	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,1-Dichloroethene	ND		0.78	0.18	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2,4-Trichlorobenzene	ND		0.78	0.072	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2-Dibromo-3-Chloropropane	ND		0.78	0.36	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2-Dichlorobenzene	ND		0.78	0.11	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2-Dichloroethane	ND		0.78	0.23	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2-Dichloropropane	ND		0.78	0.33	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,3-Dichlorobenzene	ND		0.78	0.12	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,4-Dichlorobenzene	ND		0.78	0.078	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
2-Butanone (MEK)	ND		3.9	0.87	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
2-Hexanone	ND		3.9	0.61	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
4-Methyl-2-pentanone (MIBK)	ND		3.9	0.52	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Acetone	**9.0**		3.9	3.0	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Benzene	ND		0.78	0.20	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Bromoform	ND		0.78	0.33	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Bromomethane	ND		0.78	0.37	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Carbon disulfide	ND		0.78	0.21	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Carbon tetrachloride	ND		0.78	0.14	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Chlorobenzene	ND		0.78	0.14	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Dibromochloromethane	ND		0.78	0.15	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Chloroethane	ND		0.78	0.41	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Chloroform	ND		0.78	0.25	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Chloromethane	ND		0.78	0.34	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
cis-1,2-Dichloroethene	**0.24**	**J**	0.78	0.12	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Cyclohexane	ND		0.78	0.17	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Bromodichloromethane	ND		0.78	0.20	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Dichlorodifluoromethane	ND		0.78	0.26	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Ethylbenzene	ND		0.78	0.16	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
1,2-Dibromoethane	ND		0.78	0.14	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Isopropylbenzene	ND		0.78	0.099	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Methyl acetate	ND	*	3.9	3.4	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Methyl tert-butyl ether	ND		0.78	0.098	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Methylcyclohexane	ND		0.78	0.13	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Methylene Chloride	**2.4**	**B**	0.78	0.13	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Tetrachloroethene	**0.38**	**J**	0.78	0.11	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Toluene	ND		0.78	0.49	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
trans-1,2-Dichloroethene	ND		0.78	0.19	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
trans-1,3-Dichloropropene	ND		0.78	0.21	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Trichloroethene	**9.8**		0.78	0.11	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Trichlorofluoromethane	ND		0.78	0.32	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Vinyl chloride	ND		0.78	0.43	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Xylenes, Total	ND		1.6	0.20	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
cis-1,3-Dichloropropene	ND		0.78	0.21	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1
Styrene	ND		0.78	0.096	ug/Kg	☼	06/30/18 10:19	07/11/18 22:57	1

Client Sample ID: PDI-19-SO-79-06282018 — Lab Sample ID: 460-159550-6

Date Collected: 06/28/18 01:30 — **Matrix: Solid**
Date Received: 06/29/18 19:00 — **Percent Solids: 83.1**

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*78 - 135*	*06/30/18 10:19*	*07/11/18 22:57*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*	*06/30/18 10:19*	*07/11/18 22:57*	*1*
Toluene-d8 (Surr)	*102*		*73 - 121*	*06/30/18 10:19*	*07/11/18 22:57*	*1*
Dibromofluoromethane (Surr)	*107*		*61 - 149*	*06/30/18 10:19*	*07/11/18 22:57*	*1*

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**0.88**	**J HF**	2.0	0.30	mg/Kg			07/09/18 14:45	1

Client Sample ID: PDI-19-SO-80-06292018 — Lab Sample ID: 460-159550-7

Date Collected: 06/28/18 14:35 — **Matrix: Solid**
Date Received: 06/29/18 19:00

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**1.1**	**J HF**	1.9	0.29	mg/Kg			07/09/18 14:45	1

Client Sample ID: PDI-20-SO-73-06292018 — Lab Sample ID: 460-159550-8

Date Collected: 06/29/18 11:50 — **Matrix: Solid**
Date Received: 06/29/18 19:00 — **Percent Solids: 83.8**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	**0.96**		0.82	0.19	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,1,2,2-Tetrachloroethane	ND		0.82	0.18	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,1,2-Trichloroethane	ND		0.82	0.15	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,1-Dichloroethane	ND		0.82	0.17	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,1-Dichloroethene	**0.19**	**J**	0.82	0.19	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2,4-Trichlorobenzene	ND		0.82	0.076	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2-Dibromo-3-Chloropropane	ND		0.82	0.38	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2-Dichlorobenzene	**0.26**	**J**	0.82	0.12	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2-Dichloroethane	ND		0.82	0.24	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2-Dichloropropane	ND		0.82	0.35	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,3-Dichlorobenzene	ND		0.82	0.13	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,4-Dichlorobenzene	ND		0.82	0.082	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
2-Butanone (MEK)	**4.7**		4.1	0.91	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
2-Hexanone	ND		4.1	0.64	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
4-Methyl-2-pentanone (MIBK)	ND		4.1	0.55	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Acetone	**20**		4.1	3.1	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Benzene	ND		0.82	0.21	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Bromoform	ND		0.82	0.35	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Bromomethane	ND		0.82	0.39	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Carbon disulfide	ND		0.82	0.22	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Carbon tetrachloride	ND		0.82	0.15	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Chlorobenzene	ND		0.82	0.15	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Dibromochloromethane	ND		0.82	0.16	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Chloroethane	ND		0.82	0.43	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Chloroform	ND		0.82	0.26	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Chloromethane	ND		0.82	0.36	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
cis-1,2-Dichloroethene	**11**		0.82	0.13	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1

Client Sample ID: PDI-20-SO-73-06292018

Lab Sample ID: 460-159550-8
Date Collected: 06/29/18 11:50
Matrix: Solid
Date Received: 06/29/18 19:00
Percent Solids: 83.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	ND		0.82	0.18	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Bromodichloromethane	ND		0.82	0.21	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Dichlorodifluoromethane	ND		0.82	0.28	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Ethylbenzene	ND		0.82	0.16	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
1,2-Dibromoethane	ND		0.82	0.15	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Isopropylbenzene	ND		0.82	0.10	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Methyl acetate	ND	*	4.1	3.5	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Methyl tert-butyl ether	ND		0.82	0.10	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Methylcyclohexane	ND		0.82	0.13	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Methylene Chloride	**0.61**	**J B**	0.82	0.13	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Tetrachloroethene	**34**		0.82	0.12	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Toluene	ND		0.82	0.52	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
trans-1,2-Dichloroethene	ND		0.82	0.20	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
trans-1,3-Dichloropropene	ND		0.82	0.22	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Trichloroethene	**400**		0.82	0.12	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Trichlorofluoromethane	ND		0.82	0.33	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Vinyl chloride	ND		0.82	0.45	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Xylenes, Total	**0.28**	**J**	1.6	0.21	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
cis-1,3-Dichloropropene	ND		0.82	0.23	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1
Styrene	ND		0.82	0.10	ug/Kg	☼	06/30/18 10:19	07/12/18 02:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*78 - 135*	*06/30/18 10:19*	*07/12/18 02:14*	*1*
4-Bromofluorobenzene	*96*		*67 - 126*	*06/30/18 10:19*	*07/12/18 02:14*	*1*
Toluene-d8 (Surr)	*104*		*73 - 121*	*06/30/18 10:19*	*07/12/18 02:14*	*1*
Dibromofluoromethane (Surr)	*109*		*61 - 149*	*06/30/18 10:19*	*07/12/18 02:14*	*1*

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**4.6**	**J HF**	9.2	1.4	mg/Kg			07/09/18 14:45	5

Client Sample ID: PDI-20-SO-74-06292018

Lab Sample ID: 460-159550-9
Date Collected: 06/29/18 11:55
Matrix: Solid
Date Received: 06/29/18 19:00

General Chemistry - ASTM Leach

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	**6.2**	**J HF**	10	1.5	mg/Kg			07/09/18 14:45	5

Surrogate Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159550-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(78-135)	(67-126)	(73-121)	(61-149)
460-159550-5	PDI-18-SO-21-06282018	105	99	106	106
460-159550-6	PDI-19-SO-79-06282018	106	100	102	107
460-159550-8	PDI-20-SO-73-06292018	102	96	104	109
LCS 460-535216/3	Lab Control Sample	99	99	108	104
LCS 460-535482/3	Lab Control Sample	93	95	101	100
LCSD 460-535216/4	Lab Control Sample Dup	97	97	104	103
LCSD 460-535482/4	Lab Control Sample Dup	93	96	104	102
MB 460-535216/7	Method Blank	94	100	105	103
MB 460-535482/7	Method Blank	92	94	99	100

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(74-132)	(77-124)	(80-120)	(72-131)
460-159550-1	PDI-TB-06282018	114	97	98	105
460-159550-2	PDI-19-WG-85-06282018	116	106	99	102
460-159550-3	PDI-FB-06292018	112	91	99	104
460-159550-4	PDI-20-WG-85-06292018	125	98	111	109
LCS 460-534459/4	Lab Control Sample	102	95	98	96
MB 460-534459/8	Method Blank	113	102	105	104

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 460-534459/8
Matrix: Water
Analysis Batch: 534459

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.24	ug/L			07/08/18 20:32	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.37	ug/L			07/08/18 20:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			07/08/18 20:32	1
1,1,2-Trichloroethane	ND		1.0	0.43	ug/L			07/08/18 20:32	1
1,1-Dichloroethane	ND		1.0	0.26	ug/L			07/08/18 20:32	1
1,1-Dichloroethene	ND		1.0	0.12	ug/L			07/08/18 20:32	1
1,2,4-Trichlorobenzene	ND		1.0	0.37	ug/L			07/08/18 20:32	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.38	ug/L			07/08/18 20:32	1
1,2-Dichlorobenzene	ND		1.0	0.43	ug/L			07/08/18 20:32	1
1,2-Dichloroethane	ND		1.0	0.43	ug/L			07/08/18 20:32	1
1,2-Dichloropropane	ND		1.0	0.35	ug/L			07/08/18 20:32	1
1,3-Dichlorobenzene	ND		1.0	0.34	ug/L			07/08/18 20:32	1
1,4-Dichlorobenzene	ND		1.0	0.76	ug/L			07/08/18 20:32	1
2-Butanone (MEK)	ND		5.0	1.9	ug/L			07/08/18 20:32	1
2-Hexanone	ND		5.0	2.9	ug/L			07/08/18 20:32	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7	ug/L			07/08/18 20:32	1
Acetone	ND		5.0	5.0	ug/L			07/08/18 20:32	1
Benzene	ND		1.0	0.43	ug/L			07/08/18 20:32	1
Bromoform	ND		1.0	0.54	ug/L			07/08/18 20:32	1
Bromomethane	ND		1.0	1.0	ug/L			07/08/18 20:32	1
Carbon disulfide	ND		1.0	0.16	ug/L			07/08/18 20:32	1
Carbon tetrachloride	ND		1.0	0.21	ug/L			07/08/18 20:32	1
Chlorobenzene	ND		1.0	0.38	ug/L			07/08/18 20:32	1
Dibromochloromethane	ND		1.0	0.28	ug/L			07/08/18 20:32	1
Chloroethane	ND		1.0	0.32	ug/L			07/08/18 20:32	1
Chloroform	ND		1.0	0.33	ug/L			07/08/18 20:32	1
Chloromethane	ND		1.0	0.14	ug/L			07/08/18 20:32	1
cis-1,2-Dichloroethene	ND		1.0	0.22	ug/L			07/08/18 20:32	1
Cyclohexane	ND		1.0	0.32	ug/L			07/08/18 20:32	1
Bromodichloromethane	ND		1.0	0.34	ug/L			07/08/18 20:32	1
Dichlorodifluoromethane	ND		1.0	0.12	ug/L			07/08/18 20:32	1
Ethylbenzene	ND		1.0	0.30	ug/L			07/08/18 20:32	1
1,2-Dibromoethane	ND		1.0	0.50	ug/L			07/08/18 20:32	1
Isopropylbenzene	ND		1.0	0.34	ug/L			07/08/18 20:32	1
Methyl acetate	ND		5.0	0.31	ug/L			07/08/18 20:32	1
Methyl tert-butyl ether	ND		1.0	0.47	ug/L			07/08/18 20:32	1
Methylcyclohexane	ND		1.0	0.26	ug/L			07/08/18 20:32	1
Methylene Chloride	ND		1.0	0.32	ug/L			07/08/18 20:32	1
Tetrachloroethene	ND		1.0	0.25	ug/L			07/08/18 20:32	1
Toluene	ND		1.0	0.38	ug/L			07/08/18 20:32	1
trans-1,2-Dichloroethene	ND		1.0	0.24	ug/L			07/08/18 20:32	1
trans-1,3-Dichloropropene	ND		1.0	0.49	ug/L			07/08/18 20:32	1
Trichloroethene	ND		1.0	0.31	ug/L			07/08/18 20:32	1
Trichlorofluoromethane	ND		1.0	0.14	ug/L			07/08/18 20:32	1
Vinyl chloride	ND		1.0	0.17	ug/L			07/08/18 20:32	1
Xylenes, Total	ND		2.0	0.65	ug/L			07/08/18 20:32	1
cis-1,3-Dichloropropene	ND		1.0	0.46	ug/L			07/08/18 20:32	1
Styrene	ND		1.0	0.42	ug/L			07/08/18 20:32	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*113*		*74 - 132*		*07/08/18 20:32*	*1*
4-Bromofluorobenzene	*102*		*77 - 124*		*07/08/18 20:32*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*		*07/08/18 20:32*	*1*
Dibromofluoromethane (Surr)	*104*		*72 - 131*		*07/08/18 20:32*	*1*

Lab Sample ID: LCS 460-534459/4
Matrix: Water
Analysis Batch: 534459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	18.5		ug/L		92	75 - 125
1,1,2,2-Tetrachloroethane	20.0	19.1		ug/L		96	74 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8		ug/L		99	59 - 150
1,1,2-Trichloroethane	20.0	18.5		ug/L		93	78 - 120
1,1-Dichloroethane	20.0	19.8		ug/L		99	77 - 123
1,1-Dichloroethene	20.0	19.3		ug/L		97	74 - 123
1,2,4-Trichlorobenzene	20.0	15.8	*	ug/L		79	80 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.2		ug/L		91	55 - 134
1,2-Dichlorobenzene	20.0	16.8		ug/L		84	80 - 120
1,2-Dichloroethane	20.0	18.6		ug/L		93	76 - 121
1,2-Dichloropropane	20.0	19.4		ug/L		97	77 - 123
1,3-Dichlorobenzene	20.0	16.9		ug/L		84	80 - 120
1,4-Dichlorobenzene	20.0	16.7		ug/L		84	80 - 120
2-Butanone (MEK)	100	78.2		ug/L		78	64 - 120
2-Hexanone	100	91.5		ug/L		92	71 - 125
4-Methyl-2-pentanone (MIBK)	100	85.8		ug/L		86	78 - 124
Acetone	100	86.6		ug/L		87	39 - 150
Benzene	20.0	18.6		ug/L		93	77 - 121
Bromoform	20.0	16.5		ug/L		82	53 - 120
Bromomethane	20.0	20.2		ug/L		101	10 - 150
Carbon disulfide	20.0	18.1		ug/L		90	69 - 133
Carbon tetrachloride	20.0	18.0		ug/L		90	70 - 132
Chlorobenzene	20.0	17.4		ug/L		87	80 - 120
Dibromochloromethane	20.0	16.5		ug/L		82	73 - 120
Chloroethane	20.0	20.6		ug/L		103	52 - 150
Chloroform	20.0	18.4		ug/L		92	80 - 120
Chloromethane	20.0	20.7		ug/L		104	56 - 131
cis-1,2-Dichloroethene	20.0	17.8		ug/L		89	80 - 120
Cyclohexane	20.0	19.7		ug/L		99	56 - 150
Bromodichloromethane	20.0	17.7		ug/L		89	76 - 120
Dichlorodifluoromethane	20.0	19.7		ug/L		98	50 - 131
Ethylbenzene	20.0	17.4		ug/L		87	80 - 120
1,2-Dibromoethane	20.0	17.3		ug/L		87	80 - 120
Isopropylbenzene	20.0	17.3		ug/L		87	80 - 123
Methyl acetate	40.0	42.4		ug/L		106	66 - 144
Methyl tert-butyl ether	20.0	19.6		ug/L		98	79 - 122
Methylcyclohexane	20.0	17.7		ug/L		88	61 - 145
Methylene Chloride	20.0	18.6		ug/L		93	77 - 123
Tetrachloroethene	20.0	16.1		ug/L		81	78 - 122
Toluene	20.0	17.9		ug/L		90	80 - 120
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	79 - 120
trans-1,3-Dichloropropene	20.0	19.4		ug/L		97	76 - 120
Trichloroethene	20.0	17.4		ug/L		87	77 - 120

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-534459/4
Matrix: Water
Analysis Batch: 534459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	19.6		ug/L		98	71 - 143
Vinyl chloride	20.0	21.2		ug/L		106	62 - 138
cis-1,3-Dichloropropene	20.0	19.0		ug/L		95	77 - 120
Styrene	20.0	18.0		ug/L		90	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*74 - 132*
4-Bromofluorobenzene	*95*		*77 - 124*
Toluene-d8 (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*72 - 131*

Lab Sample ID: MB 460-535216/7
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/11/18 09:33	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/11/18 09:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/11/18 09:33	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/11/18 09:33	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/11/18 09:33	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/11/18 09:33	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/11/18 09:33	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/11/18 09:33	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/11/18 09:33	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/11/18 09:33	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/11/18 09:33	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/11/18 09:33	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/11/18 09:33	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/11/18 09:33	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/11/18 09:33	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/11/18 09:33	1
Acetone	4.50	J	5.0	3.8	ug/Kg			07/11/18 09:33	1
Benzene	ND		1.0	0.26	ug/Kg			07/11/18 09:33	1
Bromoform	ND		1.0	0.43	ug/Kg			07/11/18 09:33	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/11/18 09:33	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/11/18 09:33	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/11/18 09:33	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/11/18 09:33	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/11/18 09:33	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/11/18 09:33	1
Chloroform	ND		1.0	0.32	ug/Kg			07/11/18 09:33	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/11/18 09:33	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/11/18 09:33	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/11/18 09:33	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/11/18 09:33	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/11/18 09:33	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/11/18 09:33	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-535216/7
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/11/18 09:33	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/11/18 09:33	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/11/18 09:33	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/11/18 09:33	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/11/18 09:33	1
Methylene Chloride	0.951	J	1.0	0.16	ug/Kg			07/11/18 09:33	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/11/18 09:33	1
Toluene	ND		1.0	0.63	ug/Kg			07/11/18 09:33	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/11/18 09:33	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/11/18 09:33	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/11/18 09:33	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/11/18 09:33	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/11/18 09:33	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/11/18 09:33	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/11/18 09:33	1
Styrene	ND		1.0	0.12	ug/Kg			07/11/18 09:33	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*78 - 135*		*07/11/18 09:33*	*1*
4-Bromofluorobenzene	*100*		*67 - 126*		*07/11/18 09:33*	*1*
Toluene-d8 (Surr)	*105*		*73 - 121*		*07/11/18 09:33*	*1*
Dibromofluoromethane (Surr)	*103*		*61 - 149*		*07/11/18 09:33*	*1*

Lab Sample ID: LCS 460-535216/3
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.7		ug/Kg		104	80 - 125
1,1,2,2-Tetrachloroethane	20.0	21.9		ug/Kg		110	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/Kg		118	78 - 132
1,1,2-Trichloroethane	20.0	21.2		ug/Kg		106	76 - 124
1,1-Dichloroethane	20.0	23.0		ug/Kg		115	80 - 124
1,1-Dichloroethene	20.0	21.8		ug/Kg		109	79 - 132
1,2,4-Trichlorobenzene	20.0	19.9		ug/Kg		100	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	18.7		ug/Kg		93	65 - 129
1,2-Dichlorobenzene	20.0	20.0		ug/Kg		100	80 - 121
1,2-Dichloroethane	20.0	18.8		ug/Kg		94	68 - 120
1,2-Dichloropropane	20.0	22.6		ug/Kg		113	77 - 124
1,3-Dichlorobenzene	20.0	20.1		ug/Kg		100	79 - 124
1,4-Dichlorobenzene	20.0	19.7		ug/Kg		99	79 - 121
2-Butanone (MEK)	100	85.2		ug/Kg		85	61 - 140
2-Hexanone	100	94.9		ug/Kg		95	78 - 120
4-Methyl-2-pentanone (MIBK)	100	97.9		ug/Kg		98	80 - 120
Acetone	100	90.7		ug/Kg		91	75 - 120
Benzene	20.0	22.8		ug/Kg		114	75 - 127
Bromoform	20.0	16.7		ug/Kg		84	19 - 150

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-535216/3
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	20.0	17.9		ug/Kg		89	59 - 136
Carbon disulfide	20.0	22.5		ug/Kg		113	74 - 130
Carbon tetrachloride	20.0	20.2		ug/Kg		101	77 - 138
Chlorobenzene	20.0	20.4		ug/Kg		102	80 - 120
Dibromochloromethane	20.0	18.3		ug/Kg		91	67 - 143
Chloroethane	20.0	20.0		ug/Kg		100	50 - 139
Chloroform	20.0	21.2		ug/Kg		106	80 - 122
Chloromethane	20.0	20.0		ug/Kg		100	66 - 128
cis-1,2-Dichloroethene	20.0	21.4		ug/Kg		107	80 - 123
Cyclohexane	20.0	24.3		ug/Kg		121	67 - 135
Bromodichloromethane	20.0	19.5		ug/Kg		98	76 - 129
Dichlorodifluoromethane	20.0	18.2		ug/Kg		91	72 - 127
Ethylbenzene	20.0	20.8		ug/Kg		104	79 - 124
1,2-Dibromoethane	20.0	20.0		ug/Kg		100	80 - 122
Isopropylbenzene	20.0	21.6		ug/Kg		108	80 - 125
Methyl acetate	40.0	46.2		ug/Kg		116	73 - 123
Methyl tert-butyl ether	20.0	20.9		ug/Kg		105	80 - 120
Methylcyclohexane	20.0	23.9		ug/Kg		119	71 - 137
Methylene Chloride	20.0	21.6		ug/Kg		108	79 - 128
Tetrachloroethene	20.0	20.1		ug/Kg		100	73 - 130
Toluene	20.0	21.4		ug/Kg		107	75 - 122
trans-1,2-Dichloroethene	20.0	21.9		ug/Kg		109	80 - 129
trans-1,3-Dichloropropene	20.0	20.5		ug/Kg		102	72 - 121
Trichloroethene	20.0	21.2		ug/Kg		106	79 - 122
Trichlorofluoromethane	20.0	18.7		ug/Kg		93	68 - 136
Vinyl chloride	20.0	20.3		ug/Kg		101	70 - 134
cis-1,3-Dichloropropene	20.0	21.3		ug/Kg		107	75 - 124
Styrene	20.0	21.1		ug/Kg		105	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*78 - 135*
4-Bromofluorobenzene	*99*		*67 - 126*
Toluene-d8 (Surr)	*108*		*73 - 121*
Dibromofluoromethane (Surr)	*104*		*61 - 149*

Lab Sample ID: LCSD 460-535216/4
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	20.5		ug/Kg		102	80 - 125	1	30
1,1,2,2-Tetrachloroethane	20.0	22.7		ug/Kg		114	72 - 131	3	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.1		ug/Kg		116	78 - 132	2	30
1,1,2-Trichloroethane	20.0	21.9		ug/Kg		110	76 - 124	3	30
1,1-Dichloroethane	20.0	23.3		ug/Kg		116	80 - 124	1	30
1,1-Dichloroethene	20.0	21.0		ug/Kg		105	79 - 132	4	30
1,2,4-Trichlorobenzene	20.0	19.1		ug/Kg		96	74 - 124	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-535216/4
Matrix: Solid
Analysis Batch: 535216

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane			20.0	19.4		ug/Kg		97	65 - 129	4	30
1,2-Dichlorobenzene			20.0	19.8		ug/Kg		99	80 - 121	1	30
1,2-Dichloroethane			20.0	19.1		ug/Kg		95	68 - 120	1	30
1,2-Dichloropropane			20.0	23.2		ug/Kg		116	77 - 124	3	30
1,3-Dichlorobenzene			20.0	19.8		ug/Kg		99	79 - 124	2	30
1,4-Dichlorobenzene			20.0	19.6		ug/Kg		98	79 - 121	1	30
2-Butanone (MEK)			100	87.3		ug/Kg		87	61 - 140	2	30
2-Hexanone			100	95.9		ug/Kg		96	78 - 120	1	30
4-Methyl-2-pentanone (MIBK)			100	99.2		ug/Kg		99	80 - 120	1	30
Acetone			100	93.5		ug/Kg		93	75 - 120	3	30
Benzene			20.0	22.3		ug/Kg		112	75 - 127	2	30
Bromoform			20.0	16.9		ug/Kg		85	19 - 150	1	30
Bromomethane			20.0	16.9		ug/Kg		84	59 - 136	6	30
Carbon disulfide			20.0	22.4		ug/Kg		112	74 - 130	0	30
Carbon tetrachloride			20.0	20.1		ug/Kg		100	77 - 138	0	30
Chlorobenzene			20.0	20.2		ug/Kg		101	80 - 120	1	30
Dibromochloromethane			20.0	19.0		ug/Kg		95	67 - 143	4	30
Chloroethane			20.0	18.3		ug/Kg		91	50 - 139	9	30
Chloroform			20.0	20.5		ug/Kg		103	80 - 122	3	30
Chloromethane			20.0	18.3		ug/Kg		92	66 - 128	9	30
cis-1,2-Dichloroethene			20.0	21.0		ug/Kg		105	80 - 123	2	30
Cyclohexane			20.0	23.7		ug/Kg		119	67 - 135	2	30
Bromodichloromethane			20.0	19.6		ug/Kg		98	76 - 129	1	30
Dichlorodifluoromethane			20.0	17.0		ug/Kg		85	72 - 127	7	30
Ethylbenzene			20.0	20.8		ug/Kg		104	79 - 124	0	30
1,2-Dibromoethane			20.0	20.0		ug/Kg		100	80 - 122	0	30
Isopropylbenzene			20.0	21.1		ug/Kg		106	80 - 125	2	30
Methyl acetate			40.0	43.0		ug/Kg		108	73 - 123	7	30
Methyl tert-butyl ether			20.0	21.5		ug/Kg		108	80 - 120	3	30
Methylcyclohexane			20.0	23.6		ug/Kg		118	71 - 137	1	30
Methylene Chloride			20.0	21.9		ug/Kg		110	79 - 128	1	30
Tetrachloroethene			20.0	19.5		ug/Kg		98	73 - 130	3	30
Toluene			20.0	20.8		ug/Kg		104	75 - 122	3	30
trans-1,2-Dichloroethene			20.0	21.7		ug/Kg		109	80 - 129	1	30
trans-1,3-Dichloropropene			20.0	20.2		ug/Kg		101	72 - 121	1	30
Trichloroethene			20.0	20.9		ug/Kg		104	79 - 122	2	30
Trichlorofluoromethane			20.0	16.5		ug/Kg		82	68 - 136	13	30
Vinyl chloride			20.0	18.7		ug/Kg		93	70 - 134	8	30
cis-1,3-Dichloropropene			20.0	21.4		ug/Kg		107	75 - 124	0	30
Styrene			20.0	21.3		ug/Kg		106	78 - 123	1	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*78 - 135*
4-Bromofluorobenzene	*97*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*103*		*61 - 149*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 460-535482/7
Matrix: Solid
Analysis Batch: 535482

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.23	ug/Kg			07/11/18 21:44	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/Kg			07/11/18 21:44	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30	ug/Kg			07/11/18 21:44	1
1,1,2-Trichloroethane	ND		1.0	0.18	ug/Kg			07/11/18 21:44	1
1,1-Dichloroethane	ND		1.0	0.21	ug/Kg			07/11/18 21:44	1
1,1-Dichloroethene	ND		1.0	0.23	ug/Kg			07/11/18 21:44	1
1,2,4-Trichlorobenzene	ND		1.0	0.092	ug/Kg			07/11/18 21:44	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.46	ug/Kg			07/11/18 21:44	1
1,2-Dichlorobenzene	ND		1.0	0.14	ug/Kg			07/11/18 21:44	1
1,2-Dichloroethane	ND		1.0	0.30	ug/Kg			07/11/18 21:44	1
1,2-Dichloropropane	ND		1.0	0.42	ug/Kg			07/11/18 21:44	1
1,3-Dichlorobenzene	ND		1.0	0.16	ug/Kg			07/11/18 21:44	1
1,4-Dichlorobenzene	ND		1.0	0.10	ug/Kg			07/11/18 21:44	1
2-Butanone (MEK)	ND		5.0	1.1	ug/Kg			07/11/18 21:44	1
2-Hexanone	ND		5.0	0.78	ug/Kg			07/11/18 21:44	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66	ug/Kg			07/11/18 21:44	1
Acetone	ND		5.0	3.8	ug/Kg			07/11/18 21:44	1
Benzene	ND		1.0	0.26	ug/Kg			07/11/18 21:44	1
Bromoform	ND		1.0	0.43	ug/Kg			07/11/18 21:44	1
Bromomethane	ND		1.0	0.47	ug/Kg			07/11/18 21:44	1
Carbon disulfide	ND		1.0	0.27	ug/Kg			07/11/18 21:44	1
Carbon tetrachloride	ND		1.0	0.18	ug/Kg			07/11/18 21:44	1
Chlorobenzene	ND		1.0	0.18	ug/Kg			07/11/18 21:44	1
Dibromochloromethane	ND		1.0	0.19	ug/Kg			07/11/18 21:44	1
Chloroethane	ND		1.0	0.52	ug/Kg			07/11/18 21:44	1
Chloroform	ND		1.0	0.32	ug/Kg			07/11/18 21:44	1
Chloromethane	ND		1.0	0.44	ug/Kg			07/11/18 21:44	1
cis-1,2-Dichloroethene	ND		1.0	0.15	ug/Kg			07/11/18 21:44	1
Cyclohexane	ND		1.0	0.22	ug/Kg			07/11/18 21:44	1
Bromodichloromethane	ND		1.0	0.26	ug/Kg			07/11/18 21:44	1
Dichlorodifluoromethane	ND		1.0	0.34	ug/Kg			07/11/18 21:44	1
Ethylbenzene	ND		1.0	0.20	ug/Kg			07/11/18 21:44	1
1,2-Dibromoethane	ND		1.0	0.18	ug/Kg			07/11/18 21:44	1
Isopropylbenzene	ND		1.0	0.13	ug/Kg			07/11/18 21:44	1
Methyl acetate	ND		5.0	4.3	ug/Kg			07/11/18 21:44	1
Methyl tert-butyl ether	ND		1.0	0.13	ug/Kg			07/11/18 21:44	1
Methylcyclohexane	ND		1.0	0.16	ug/Kg			07/11/18 21:44	1
Methylene Chloride	0.209	J	1.0	0.16	ug/Kg			07/11/18 21:44	1
Tetrachloroethene	ND		1.0	0.14	ug/Kg			07/11/18 21:44	1
Toluene	ND		1.0	0.63	ug/Kg			07/11/18 21:44	1
trans-1,2-Dichloroethene	ND		1.0	0.25	ug/Kg			07/11/18 21:44	1
trans-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/11/18 21:44	1
Trichloroethene	ND		1.0	0.14	ug/Kg			07/11/18 21:44	1
Trichlorofluoromethane	ND		1.0	0.41	ug/Kg			07/11/18 21:44	1
Vinyl chloride	ND		1.0	0.55	ug/Kg			07/11/18 21:44	1
Xylenes, Total	ND		2.0	0.25	ug/Kg			07/11/18 21:44	1
cis-1,3-Dichloropropene	ND		1.0	0.27	ug/Kg			07/11/18 21:44	1
Styrene	ND		1.0	0.12	ug/Kg			07/11/18 21:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*78 - 135*		*07/11/18 21:44*	*1*
4-Bromofluorobenzene	*94*		*67 - 126*		*07/11/18 21:44*	*1*
Toluene-d8 (Surr)	*99*		*73 - 121*		*07/11/18 21:44*	*1*
Dibromofluoromethane (Surr)	*100*		*61 - 149*		*07/11/18 21:44*	*1*

Lab Sample ID: LCS 460-535482/3
Matrix: Solid
Analysis Batch: 535482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	20.0	20.2		ug/Kg		101	80 - 125
1,1,2,2-Tetrachloroethane	20.0	23.1		ug/Kg		115	72 - 131
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5		ug/Kg		112	78 - 132
1,1,2-Trichloroethane	20.0	21.1		ug/Kg		106	76 - 124
1,1-Dichloroethane	20.0	22.7		ug/Kg		114	80 - 124
1,1-Dichloroethene	20.0	21.0		ug/Kg		105	79 - 132
1,2,4-Trichlorobenzene	20.0	19.5		ug/Kg		98	74 - 124
1,2-Dibromo-3-Chloropropane	20.0	20.3		ug/Kg		101	65 - 129
1,2-Dichlorobenzene	20.0	19.9		ug/Kg		100	80 - 121
1,2-Dichloroethane	20.0	18.9		ug/Kg		94	68 - 120
1,2-Dichloropropane	20.0	22.8		ug/Kg		114	77 - 124
1,3-Dichlorobenzene	20.0	20.0		ug/Kg		100	79 - 124
1,4-Dichlorobenzene	20.0	19.5		ug/Kg		97	79 - 121
2-Butanone (MEK)	100	85.9		ug/Kg		86	61 - 140
2-Hexanone	100	96.7		ug/Kg		97	78 - 120
4-Methyl-2-pentanone (MIBK)	100	100		ug/Kg		100	80 - 120
Acetone	100	91.1		ug/Kg		91	75 - 120
Benzene	20.0	22.5		ug/Kg		113	75 - 127
Bromoform	20.0	17.3		ug/Kg		86	19 - 150
Bromomethane	20.0	20.7		ug/Kg		104	59 - 136
Carbon disulfide	20.0	22.1		ug/Kg		111	74 - 130
Carbon tetrachloride	20.0	19.6		ug/Kg		98	77 - 138
Chlorobenzene	20.0	20.0		ug/Kg		100	80 - 120
Dibromochloromethane	20.0	18.9		ug/Kg		94	67 - 143
Chloroethane	20.0	23.3		ug/Kg		117	50 - 139
Chloroform	20.0	21.0		ug/Kg		105	80 - 122
Chloromethane	20.0	23.2		ug/Kg		116	66 - 128
cis-1,2-Dichloroethene	20.0	20.7		ug/Kg		104	80 - 123
Cyclohexane	20.0	22.9		ug/Kg		114	67 - 135
Bromodichloromethane	20.0	19.7		ug/Kg		98	76 - 129
Dichlorodifluoromethane	20.0	21.6		ug/Kg		108	72 - 127
Ethylbenzene	20.0	20.2		ug/Kg		101	79 - 124
1,2-Dibromoethane	20.0	19.3		ug/Kg		97	80 - 122
Isopropylbenzene	20.0	20.8		ug/Kg		104	80 - 125
Methyl acetate	40.0	44.5		ug/Kg		111	73 - 123
Methyl tert-butyl ether	20.0	21.0		ug/Kg		105	80 - 120
Methylcyclohexane	20.0	22.2		ug/Kg		111	71 - 137
Methylene Chloride	20.0	21.2		ug/Kg		106	79 - 128
Tetrachloroethene	20.0	19.3		ug/Kg		96	73 - 130
Toluene	20.0	20.7		ug/Kg		104	75 - 122
trans-1,2-Dichloroethene	20.0	21.5		ug/Kg		108	80 - 129
trans-1,3-Dichloropropene	20.0	20.3		ug/Kg		102	72 - 121
Trichloroethene	20.0	20.4		ug/Kg		102	79 - 122

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 460-535482/3
Matrix: Solid
Analysis Batch: 535482

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Trichlorofluoromethane	20.0	19.5		ug/Kg		97	68 - 136
Vinyl chloride	20.0	23.1		ug/Kg		115	70 - 134
cis-1,3-Dichloropropene	20.0	20.5		ug/Kg		103	75 - 124
Styrene	20.0	20.7		ug/Kg		103	78 - 123

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*78 - 135*
4-Bromofluorobenzene	*95*		*67 - 126*
Toluene-d8 (Surr)	*101*		*73 - 121*
Dibromofluoromethane (Surr)	*100*		*61 - 149*

Lab Sample ID: LCSD 460-535482/4
Matrix: Solid
Analysis Batch: 535482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	20.0	21.1		ug/Kg		106	80 - 125	4	30
1,1,2,2-Tetrachloroethane	20.0	23.3		ug/Kg		117	72 - 131	1	30
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6		ug/Kg		118	78 - 132	5	30
1,1,2-Trichloroethane	20.0	22.5		ug/Kg		113	76 - 124	6	30
1,1-Dichloroethane	20.0	24.0		ug/Kg		120	80 - 124	5	30
1,1-Dichloroethene	20.0	22.0		ug/Kg		110	79 - 132	5	30
1,2,4-Trichlorobenzene	20.0	20.1		ug/Kg		101	74 - 124	3	30
1,2-Dibromo-3-Chloropropane	20.0	20.0		ug/Kg		100	65 - 129	1	30
1,2-Dichlorobenzene	20.0	21.1		ug/Kg		105	80 - 121	6	30
1,2-Dichloroethane	20.0	19.4		ug/Kg		97	68 - 120	3	30
1,2-Dichloropropane	20.0	23.7		ug/Kg		118	77 - 124	4	30
1,3-Dichlorobenzene	20.0	21.0		ug/Kg		105	79 - 124	5	30
1,4-Dichlorobenzene	20.0	20.6		ug/Kg		103	79 - 121	6	30
2-Butanone (MEK)	100	90.0		ug/Kg		90	61 - 140	5	30
2-Hexanone	100	105		ug/Kg		105	78 - 120	9	30
4-Methyl-2-pentanone (MIBK)	100	107		ug/Kg		107	80 - 120	7	30
Acetone	100	98.2		ug/Kg		98	75 - 120	8	30
Benzene	20.0	22.9		ug/Kg		115	75 - 127	2	30
Bromoform	20.0	18.1		ug/Kg		91	19 - 150	5	30
Bromomethane	20.0	21.5		ug/Kg		107	59 - 136	3	30
Carbon disulfide	20.0	23.0		ug/Kg		115	74 - 130	4	30
Carbon tetrachloride	20.0	20.6		ug/Kg		103	77 - 138	5	30
Chlorobenzene	20.0	21.1		ug/Kg		105	80 - 120	5	30
Dibromochloromethane	20.0	19.5		ug/Kg		97	67 - 143	3	30
Chloroethane	20.0	23.6		ug/Kg		118	50 - 139	1	30
Chloroform	20.0	21.5		ug/Kg		107	80 - 122	2	30
Chloromethane	20.0	24.6		ug/Kg		123	66 - 128	6	30
cis-1,2-Dichloroethene	20.0	21.3		ug/Kg		107	80 - 123	3	30
Cyclohexane	20.0	24.0		ug/Kg		120	67 - 135	5	30
Bromodichloromethane	20.0	20.6		ug/Kg		103	76 - 129	5	30
Dichlorodifluoromethane	20.0	22.4		ug/Kg		112	72 - 127	4	30

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 460-535482/4
Matrix: Solid
Analysis Batch: 535482

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene			20.0	21.6		ug/Kg		108	79 - 124	7	30
1,2-Dibromoethane			20.0	20.6		ug/Kg		103	80 - 122	6	30
Isopropylbenzene			20.0	21.6		ug/Kg		108	80 - 125	4	30
Methyl acetate			40.0	49.6	*	ug/Kg		124	73 - 123	11	30
Methyl tert-butyl ether			20.0	21.9		ug/Kg		109	80 - 120	4	30
Methylcyclohexane			20.0	23.7		ug/Kg		118	71 - 137	6	30
Methylene Chloride			20.0	22.4		ug/Kg		112	79 - 128	5	30
Tetrachloroethene			20.0	19.9		ug/Kg		99	73 - 130	3	30
Toluene			20.0	21.4		ug/Kg		107	75 - 122	3	30
trans-1,2-Dichloroethene			20.0	22.4		ug/Kg		112	80 - 129	4	30
trans-1,3-Dichloropropene			20.0	21.1		ug/Kg		106	72 - 121	4	30
Trichloroethene			20.0	21.6		ug/Kg		108	79 - 122	6	30
Trichlorofluoromethane			20.0	22.0		ug/Kg		110	68 - 136	12	30
Vinyl chloride			20.0	24.1		ug/Kg		121	70 - 134	5	30
cis-1,3-Dichloropropene			20.0	21.2		ug/Kg		106	75 - 124	3	30
Styrene			20.0	21.7		ug/Kg		109	78 - 123	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*78 - 135*
4-Bromofluorobenzene	*96*		*67 - 126*
Toluene-d8 (Surr)	*104*		*73 - 121*
Dibromofluoromethane (Surr)	*102*		*61 - 149*

Method: SM 3500 FE D - Iron, Ferrous and Ferric

Lab Sample ID: MB 480-423597/3
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		0.10	0.015	mg/Kg			07/09/18 14:45	1

Lab Sample ID: LCS 480-423597/4
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	1.83		mg/Kg		92	90 - 110		

Lab Sample ID: MB 480-423404/1-A
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: Method Blank
Prep Type: ASTM Leach

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	ND		2.0	0.30	mg/Kg			07/09/18 14:45	1

Method: SM 3500 FE D - Iron, Ferrous and Ferric (Continued)

Lab Sample ID: 460-159550-6 MS
Matrix: Solid
Analysis Batch: 423597

Client Sample ID: PDI-19-SO-79-06282018
Prep Type: ASTM Leach

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	0.88	J HF	19.9	19.20		mg/Kg		92	70 - 130

GC/MS VOA

Prep Batch: 532415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-5	PDI-18-SO-21-06282018	Total/NA	Solid	5035	
460-159550-6	PDI-19-SO-79-06282018	Total/NA	Solid	5035	
460-159550-8	PDI-20-SO-73-06292018	Total/NA	Solid	5035	

Analysis Batch: 534459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-1	PDI-TB-06282018	Total/NA	Water	8260C	
460-159550-2	PDI-19-WG-85-06282018	Total/NA	Water	8260C	
460-159550-3	PDI-FB-06292018	Total/NA	Water	8260C	
460-159550-4	PDI-20-WG-85-06292018	Total/NA	Water	8260C	
MB 460-534459/8	Method Blank	Total/NA	Water	8260C	
LCS 460-534459/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 535216

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-5	PDI-18-SO-21-06282018	Total/NA	Solid	8260C	532415
MB 460-535216/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-535216/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-535216/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

Analysis Batch: 535482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-6	PDI-19-SO-79-06282018	Total/NA	Solid	8260C	532415
460-159550-8	PDI-20-SO-73-06292018	Total/NA	Solid	8260C	532415
MB 460-535482/7	Method Blank	Total/NA	Solid	8260C	
LCS 460-535482/3	Lab Control Sample	Total/NA	Solid	8260C	
LCSD 460-535482/4	Lab Control Sample Dup	Total/NA	Solid	8260C	

General Chemistry

Leach Batch: 423404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-6	PDI-19-SO-79-06282018	ASTM Leach	Solid	D3987-85	
460-159550-7	PDI-19-SO-80-06292018	ASTM Leach	Solid	D3987-85	
460-159550-8	PDI-20-SO-73-06292018	ASTM Leach	Solid	D3987-85	
460-159550-9	PDI-20-SO-74-06292018	ASTM Leach	Solid	D3987-85	
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	D3987-85	
460-159550-6 MS	PDI-19-SO-79-06282018	ASTM Leach	Solid	D3987-85	

Analysis Batch: 423597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-6	PDI-19-SO-79-06282018	ASTM Leach	Solid	SM 3500 FE D	423404
460-159550-7	PDI-19-SO-80-06292018	ASTM Leach	Solid	SM 3500 FE D	423404
460-159550-8	PDI-20-SO-73-06292018	ASTM Leach	Solid	SM 3500 FE D	423404
460-159550-9	PDI-20-SO-74-06292018	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423404/1-A	Method Blank	ASTM Leach	Solid	SM 3500 FE D	423404
MB 480-423597/3	Method Blank	Total/NA	Solid	SM 3500 FE D	
LCS 480-423597/4	Lab Control Sample	Total/NA	Solid	SM 3500 FE D	
460-159550-6 MS	PDI-19-SO-79-06282018	ASTM Leach	Solid	SM 3500 FE D	423404

General Chemistry (Continued)

Analysis Batch: 534926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-159550-5	PDI-18-SO-21-06282018	Total/NA	Solid	Moisture	
460-159550-6	PDI-19-SO-79-06282018	Total/NA	Solid	Moisture	
460-159550-8	PDI-20-SO-73-06292018	Total/NA	Solid	Moisture	

Client Sample ID: PDI-TB-06282018
Lab Sample ID: 460-159550-1
Date Collected: 06/28/18 00:00
Matrix: Water
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534459	07/09/18 02:32	SZK	TAL EDI

Client Sample ID: PDI-19-WG-85-06282018
Lab Sample ID: 460-159550-2
Date Collected: 06/28/18 14:45
Matrix: Water
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534459	07/09/18 03:19	SZK	TAL EDI

Client Sample ID: PDI-FB-06292018
Lab Sample ID: 460-159550-3
Date Collected: 06/29/18 09:15
Matrix: Water
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534459	07/09/18 02:56	SZK	TAL EDI

Client Sample ID: PDI-20-WG-85-06292018
Lab Sample ID: 460-159550-4
Date Collected: 06/29/18 12:00
Matrix: Water
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	534459	07/09/18 03:42	SZK	TAL EDI

Client Sample ID: PDI-18-SO-21-06282018
Lab Sample ID: 460-159550-5
Date Collected: 06/28/18 09:35
Matrix: Solid
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	534926	07/10/18 07:33	BJP	TAL EDI

Client Sample ID: PDI-18-SO-21-06282018
Lab Sample ID: 460-159550-5
Date Collected: 06/28/18 09:35
Matrix: Solid
Date Received: 06/29/18 19:00
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			532415	06/30/18 10:18	DBM	TAL EDI
Total/NA	Analysis	8260C		1	535216	07/11/18 13:14	AAT	TAL EDI

Client Sample ID: PDI-19-SO-79-06282018
Lab Sample ID: 460-159550-6
Date Collected: 06/28/18 01:30
Matrix: Solid
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	534926	07/10/18 07:33	BJP	TAL EDI
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Client Sample ID: PDI-19-SO-79-06282018
Lab Sample ID: 460-159550-6
Date Collected: 06/28/18 01:30
Matrix: Solid
Date Received: 06/29/18 19:00
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			532415	06/30/18 10:19	DBM	TAL EDI
Total/NA	Analysis	8260C		1	535482	07/11/18 22:57	AAT	TAL EDI

Client Sample ID: PDI-19-SO-80-06292018
Lab Sample ID: 460-159550-7
Date Collected: 06/28/18 14:35
Matrix: Solid
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		1	423597	07/09/18 14:45	MDL	TAL BUF

Client Sample ID: PDI-20-SO-73-06292018
Lab Sample ID: 460-159550-8
Date Collected: 06/29/18 11:50
Matrix: Solid
Date Received: 06/29/18 19:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	534926	07/10/18 07:33	BJP	TAL EDI
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		5	423597	07/09/18 14:45	MDL	TAL BUF

Client Sample ID: PDI-20-SO-73-06292018
Lab Sample ID: 460-159550-8
Date Collected: 06/29/18 11:50
Matrix: Solid
Date Received: 06/29/18 19:00
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			532415	06/30/18 10:19	DBM	TAL EDI
Total/NA	Analysis	8260C		1	535482	07/12/18 02:14	AAT	TAL EDI

Client Sample ID: PDI-20-SO-74-06292018

Date Collected: 06/29/18 11:55
Date Received: 06/29/18 19:00

Lab Sample ID: 460-159550-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
ASTM Leach	Leach	D3987-85			423404	07/08/18 11:38	MDL	TAL BUF
ASTM Leach	Analysis	SM 3500 FE D		5	423597	07/09/18 14:45	MDL	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Method Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159550-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
Moisture	Percent Moisture	EPA	TAL EDI
SM 3500 FE D	Iron, Ferrous and Ferric	SM	TAL BUF
5030C	Purge and Trap	SW846	TAL EDI
5035	Closed System Purge and Trap	SW846	TAL EDI
D3987-85	ASTM Leaching Procedure	ASTM	TAL BUF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

Client: CDM Smith, Inc. TestAmerica Job ID: 460-159550-1
Project/Site: Former Aluminum Louvre

Laboratory: TestAmerica Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-18
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-18
New Jersey	NELAP	2	12028	06-30-19
New York	NELAP	2	11452	04-01-19
Pennsylvania	NELAP	3	68-00522	02-28-19
Rhode Island	State Program	1	LAO00132	12-30-18
USDA	Federal		NJCA-003-08	06-13-20

Laboratory: TestAmerica Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18 *

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
SM 3500 FE D		Solid	Ferrous Iron

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

8260C

Volatile Organic Compounds by GC/MS

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-18-SO-21-06282018	460-159550-5	106	105	106	99
PDI-19-SO-79-06282018	460-159550-6	107	106	102	100
PDI-20-SO-73-06292018	460-159550-8	109	102	104	96
	MB 460-535216/7	103	94	105	100
	MB 460-535482/7	100	92	99	94
	LCS 460-535216/3	104	99	108	99
	LCS 460-535482/3	100	93	101	95
	LCSD 460-535216/4	103	97	104	97
	LCSD 460-535482/4	102	93	104	96

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	61-149
DCA = 1,2-Dichloroethane-d4 (Surr)	78-135
TOL = Toluene-d8 (Surr)	73-121
BFB = 4-Bromofluorobenzene	67-126

Column to be used to flag recovery values

FORM II 8260C

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Water Level: Low

GC Column (1): Rtx-624 ID: 0.25(mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
PDI-TB-06282018	460-159550-1	105	114	98	97
PDI-19-WG-85-06282018	460-159550-2	102	116	99	106
PDI-FB-06292018	460-159550-3	104	112	99	91
PDI-20-WG-85-06292018	460-159550-4	109	125	111	98
	MB 460-534459/8	104	113	105	102
	LCS 460-534459/4	96	102	98	95

	QC LIMITS
DBFM = Dibromofluoromethane (Surr)	72-131
DCA = 1,2-Dichloroethane-d4 (Surr)	74-132
TOL = Toluene-d8 (Surr)	80-120
BFB = 4-Bromofluorobenzene	77-124

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A58431.D

Lab ID: LCS 460-534459/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	18.5	92	75-125	
1,1,2,2-Tetrachloroethane	20.0	19.1	96	74-120	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	19.8	99	59-150	
1,1,2-Trichloroethane	20.0	18.5	93	78-120	
1,1-Dichloroethane	20.0	19.8	99	77-123	
1,1-Dichloroethene	20.0	19.3	97	74-123	
1,2,4-Trichlorobenzene	20.0	15.8	79	80-124	*
1,2-Dibromo-3-Chloropropane	20.0	18.2	91	55-134	
1,2-Dichlorobenzene	20.0	16.8	84	80-120	
1,2-Dichloroethane	20.0	18.6	93	76-121	
1,2-Dichloropropane	20.0	19.4	97	77-123	
1,3-Dichlorobenzene	20.0	16.9	84	80-120	
1,4-Dichlorobenzene	20.0	16.7	84	80-120	
2-Butanone (MEK)	100	78.2	78	64-120	
2-Hexanone	100	91.5	92	71-125	
4-Methyl-2-pentanone (MIBK)	100	85.8	86	78-124	
Acetone	100	86.6	87	39-150	
Benzene	20.0	18.6	93	77-121	
Bromoform	20.0	16.5	82	53-120	
Bromomethane	20.0	20.2	101	10-150	
Carbon disulfide	20.0	18.1	90	69-133	
Carbon tetrachloride	20.0	18.0	90	70-132	
Chlorobenzene	20.0	17.4	87	80-120	
Dibromochloromethane	20.0	16.5	82	73-120	
Chloroethane	20.0	20.6	103	52-150	
Chloroform	20.0	18.4	92	80-120	
Chloromethane	20.0	20.7	104	56-131	
cis-1,2-Dichloroethene	20.0	17.8	89	80-120	
Cyclohexane	20.0	19.7	99	56-150	
Bromodichloromethane	20.0	17.7	89	76-120	
Dichlorodifluoromethane	20.0	19.7	98	50-131	
Ethylbenzene	20.0	17.4	87	80-120	
1,2-Dibromoethane	20.0	17.3	87	80-120	
Isopropylbenzene	20.0	17.3	87	80-123	
Methyl acetate	40.0	42.4	106	66-144	
Methyl tert-butyl ether	20.0	19.6	98	79-122	
Methylcyclohexane	20.0	17.7	88	61-145	
Methylene Chloride	20.0	18.6	93	77-123	
Tetrachloroethene	20.0	16.1	81	78-122	
Toluene	20.0	17.9	90	80-120	
trans-1,2-Dichloroethene	20.0	18.0	90	79-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Water Level: Low Lab File ID: A58431.D

Lab ID: LCS 460-534459/4 Client ID:

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	19.4	97	76-120	
Trichloroethene	20.0	17.4	87	77-120	
Trichlorofluoromethane	20.0	19.6	98	71-143	
Vinyl chloride	20.0	21.2	106	62-138	
cis-1,3-Dichloropropene	20.0	19.0	95	77-120	
Styrene	20.0	18.0	90	80-120	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86413.D

Lab ID: LCS 460-535216/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.7	104	80-125	
1,1,2,2-Tetrachloroethane	20.0	21.9	110	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6	118	78-132	
1,1,2-Trichloroethane	20.0	21.2	106	76-124	
1,1-Dichloroethane	20.0	23.0	115	80-124	
1,1-Dichloroethene	20.0	21.8	109	79-132	
1,2,4-Trichlorobenzene	20.0	19.9	100	74-124	
1,2-Dibromo-3-Chloropropane	20.0	18.7	93	65-129	
1,2-Dichlorobenzene	20.0	20.0	100	80-121	
1,2-Dichloroethane	20.0	18.8	94	68-120	
1,2-Dichloropropane	20.0	22.6	113	77-124	
1,3-Dichlorobenzene	20.0	20.1	100	79-124	
1,4-Dichlorobenzene	20.0	19.7	99	79-121	
2-Butanone (MEK)	100	85.2	85	61-140	
2-Hexanone	100	94.9	95	78-120	
4-Methyl-2-pentanone (MIBK)	100	97.9	98	80-120	
Acetone	100	90.7	91	75-120	
Benzene	20.0	22.8	114	75-127	
Bromoform	20.0	16.7	84	19-150	
Bromomethane	20.0	17.9	89	59-136	
Carbon disulfide	20.0	22.5	113	74-130	
Carbon tetrachloride	20.0	20.2	101	77-138	
Chlorobenzene	20.0	20.4	102	80-120	
Dibromochloromethane	20.0	18.3	91	67-143	
Chloroethane	20.0	20.0	100	50-139	
Chloroform	20.0	21.2	106	80-122	
Chloromethane	20.0	20.0	100	66-128	
cis-1,2-Dichloroethene	20.0	21.4	107	80-123	
Cyclohexane	20.0	24.3	121	67-135	
Bromodichloromethane	20.0	19.5	98	76-129	
Dichlorodifluoromethane	20.0	18.2	91	72-127	
Ethylbenzene	20.0	20.8	104	79-124	
1,2-Dibromoethane	20.0	20.0	100	80-122	
Isopropylbenzene	20.0	21.6	108	80-125	
Methyl acetate	40.0	46.2	116	73-123	
Methyl tert-butyl ether	20.0	20.9	105	80-120	
Methylcyclohexane	20.0	23.9	119	71-137	
Methylene Chloride	20.0	21.6	108	79-128	
Tetrachloroethene	20.0	20.1	100	73-130	
Toluene	20.0	21.4	107	75-122	
trans-1,2-Dichloroethene	20.0	21.9	109	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86413.D

Lab ID: LCS 460-535216/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.5	102	72-121	
Trichloroethene	20.0	21.2	106	79-122	
Trichlorofluoromethane	20.0	18.7	93	68-136	
Vinyl chloride	20.0	20.3	101	70-134	
cis-1,3-Dichloropropene	20.0	21.3	107	75-124	
Styrene	20.0	21.1	105	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86443.D

Lab ID: LCS 460-535482/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.2	101	80-125	
1,1,2,2-Tetrachloroethane	20.0	23.1	115	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	22.5	112	78-132	
1,1,2-Trichloroethane	20.0	21.1	106	76-124	
1,1-Dichloroethane	20.0	22.7	114	80-124	
1,1-Dichloroethene	20.0	21.0	105	79-132	
1,2,4-Trichlorobenzene	20.0	19.5	98	74-124	
1,2-Dibromo-3-Chloropropane	20.0	20.3	101	65-129	
1,2-Dichlorobenzene	20.0	19.9	100	80-121	
1,2-Dichloroethane	20.0	18.9	94	68-120	
1,2-Dichloropropane	20.0	22.8	114	77-124	
1,3-Dichlorobenzene	20.0	20.0	100	79-124	
1,4-Dichlorobenzene	20.0	19.5	97	79-121	
2-Butanone (MEK)	100	85.9	86	61-140	
2-Hexanone	100	96.7	97	78-120	
4-Methyl-2-pentanone (MIBK)	100	100	100	80-120	
Acetone	100	91.1	91	75-120	
Benzene	20.0	22.5	113	75-127	
Bromoform	20.0	17.3	86	19-150	
Bromomethane	20.0	20.7	104	59-136	
Carbon disulfide	20.0	22.1	111	74-130	
Carbon tetrachloride	20.0	19.6	98	77-138	
Chlorobenzene	20.0	20.0	100	80-120	
Dibromochloromethane	20.0	18.9	94	67-143	
Chloroethane	20.0	23.3	117	50-139	
Chloroform	20.0	21.0	105	80-122	
Chloromethane	20.0	23.2	116	66-128	
cis-1,2-Dichloroethene	20.0	20.7	104	80-123	
Cyclohexane	20.0	22.9	114	67-135	
Bromodichloromethane	20.0	19.7	98	76-129	
Dichlorodifluoromethane	20.0	21.6	108	72-127	
Ethylbenzene	20.0	20.2	101	79-124	
1,2-Dibromoethane	20.0	19.3	97	80-122	
Isopropylbenzene	20.0	20.8	104	80-125	
Methyl acetate	40.0	44.5	111	73-123	
Methyl tert-butyl ether	20.0	21.0	105	80-120	
Methylcyclohexane	20.0	22.2	111	71-137	
Methylene Chloride	20.0	21.2	106	79-128	
Tetrachloroethene	20.0	19.3	96	73-130	
Toluene	20.0	20.7	104	75-122	
trans-1,2-Dichloroethene	20.0	21.5	108	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86443.D

Lab ID: LCS 460-535482/3 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.3	102	72-121	
Trichloroethene	20.0	20.4	102	79-122	
Trichlorofluoromethane	20.0	19.5	97	68-136	
Vinyl chloride	20.0	23.1	115	70-134	
cis-1,3-Dichloropropene	20.0	20.5	103	75-124	
Styrene	20.0	20.7	103	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86414.D

Lab ID: LCSD 460-535216/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	20.5	102	1	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	22.7	114	3	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.1	116	2	30	78-132	
1,1,2-Trichloroethane	20.0	21.9	110	3	30	76-124	
1,1-Dichloroethane	20.0	23.3	116	1	30	80-124	
1,1-Dichloroethene	20.0	21.0	105	4	30	79-132	
1,2,4-Trichlorobenzene	20.0	19.1	96	4	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	19.4	97	4	30	65-129	
1,2-Dichlorobenzene	20.0	19.8	99	1	30	80-121	
1,2-Dichloroethane	20.0	19.1	95	1	30	68-120	
1,2-Dichloropropane	20.0	23.2	116	3	30	77-124	
1,3-Dichlorobenzene	20.0	19.8	99	2	30	79-124	
1,4-Dichlorobenzene	20.0	19.6	98	1	30	79-121	
2-Butanone (MEK)	100	87.3	87	2	30	61-140	
2-Hexanone	100	95.9	96	1	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	99.2	99	1	30	80-120	
Acetone	100	93.5	93	3	30	75-120	
Benzene	20.0	22.3	112	2	30	75-127	
Bromoform	20.0	16.9	85	1	30	19-150	
Bromomethane	20.0	16.9	84	6	30	59-136	
Carbon disulfide	20.0	22.4	112	0	30	74-130	
Carbon tetrachloride	20.0	20.1	100	0	30	77-138	
Chlorobenzene	20.0	20.2	101	1	30	80-120	
Dibromochloromethane	20.0	19.0	95	4	30	67-143	
Chloroethane	20.0	18.3	91	9	30	50-139	
Chloroform	20.0	20.5	103	3	30	80-122	
Chloromethane	20.0	18.3	92	9	30	66-128	
cis-1,2-Dichloroethene	20.0	21.0	105	2	30	80-123	
Cyclohexane	20.0	23.7	119	2	30	67-135	
Bromodichloromethane	20.0	19.6	98	1	30	76-129	
Dichlorodifluoromethane	20.0	17.0	85	7	30	72-127	
Ethylbenzene	20.0	20.8	104	0	30	79-124	
1,2-Dibromoethane	20.0	20.0	100	0	30	80-122	
Isopropylbenzene	20.0	21.1	106	2	30	80-125	
Methyl acetate	40.0	43.0	108	7	30	73-123	
Methyl tert-butyl ether	20.0	21.5	108	3	30	80-120	
Methylcyclohexane	20.0	23.6	118	1	30	71-137	
Methylene Chloride	20.0	21.9	110	1	30	79-128	
Tetrachloroethene	20.0	19.5	98	3	30	73-130	
Toluene	20.0	20.8	104	3	30	75-122	
trans-1,2-Dichloroethene	20.0	21.7	109	1	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86414.D

Lab ID: LCSD 460-535216/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	20.2	101	1	30	72-121	
Trichloroethene	20.0	20.9	104	2	30	79-122	
Trichlorofluoromethane	20.0	16.5	82	13	30	68-136	
Vinyl chloride	20.0	18.7	93	8	30	70-134	
cis-1,3-Dichloropropene	20.0	21.4	107	0	30	75-124	
Styrene	20.0	21.3	106	1	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86444.D

Lab ID: LCSD 460-535482/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
1,1,1-Trichloroethane	20.0	21.1	106	4	30	80-125	
1,1,2,2-Tetrachloroethane	20.0	23.3	117	1	30	72-131	
1,1,2-Trichloro-1,2,2-trifluoroethane	20.0	23.6	118	5	30	78-132	
1,1,2-Trichloroethane	20.0	22.5	113	6	30	76-124	
1,1-Dichloroethane	20.0	24.0	120	5	30	80-124	
1,1-Dichloroethene	20.0	22.0	110	5	30	79-132	
1,2,4-Trichlorobenzene	20.0	20.1	101	3	30	74-124	
1,2-Dibromo-3-Chloropropane	20.0	20.0	100	1	30	65-129	
1,2-Dichlorobenzene	20.0	21.1	105	6	30	80-121	
1,2-Dichloroethane	20.0	19.4	97	3	30	68-120	
1,2-Dichloropropane	20.0	23.7	118	4	30	77-124	
1,3-Dichlorobenzene	20.0	21.0	105	5	30	79-124	
1,4-Dichlorobenzene	20.0	20.6	103	6	30	79-121	
2-Butanone (MEK)	100	90.0	90	5	30	61-140	
2-Hexanone	100	105	105	9	30	78-120	
4-Methyl-2-pentanone (MIBK)	100	107	107	7	30	80-120	
Acetone	100	98.2	98	8	30	75-120	
Benzene	20.0	22.9	115	2	30	75-127	
Bromoform	20.0	18.1	91	5	30	19-150	
Bromomethane	20.0	21.5	107	3	30	59-136	
Carbon disulfide	20.0	23.0	115	4	30	74-130	
Carbon tetrachloride	20.0	20.6	103	5	30	77-138	
Chlorobenzene	20.0	21.1	105	5	30	80-120	
Dibromochloromethane	20.0	19.5	97	3	30	67-143	
Chloroethane	20.0	23.6	118	1	30	50-139	
Chloroform	20.0	21.5	107	2	30	80-122	
Chloromethane	20.0	24.6	123	6	30	66-128	
cis-1,2-Dichloroethene	20.0	21.3	107	3	30	80-123	
Cyclohexane	20.0	24.0	120	5	30	67-135	
Bromodichloromethane	20.0	20.6	103	5	30	76-129	
Dichlorodifluoromethane	20.0	22.4	112	4	30	72-127	
Ethylbenzene	20.0	21.6	108	7	30	79-124	
1,2-Dibromoethane	20.0	20.6	103	6	30	80-122	
Isopropylbenzene	20.0	21.6	108	4	30	80-125	
Methyl acetate	40.0	49.6	124	11	30	73-123	*
Methyl tert-butyl ether	20.0	21.9	109	4	30	80-120	
Methylcyclohexane	20.0	23.7	118	6	30	71-137	
Methylene Chloride	20.0	22.4	112	5	30	79-128	
Tetrachloroethene	20.0	19.9	99	3	30	73-130	
Toluene	20.0	21.4	107	3	30	75-122	
trans-1,2-Dichloroethene	20.0	22.4	112	4	30	80-129	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Matrix: Solid Level: Low Lab File ID: K86444.D

Lab ID: LCSD 460-535482/4 Client ID:

COMPOUND	SPIKE ADDED (ug/Kg)	LCSD CONCENTRATION (ug/Kg)	LCSD % REC	% RPD	QC LIMITS RPD	QC LIMITS REC	#
trans-1,3-Dichloropropene	20.0	21.1	106	4	30	72-121	
Trichloroethene	20.0	21.6	108	6	30	79-122	
Trichlorofluoromethane	20.0	22.0	110	12	30	68-136	
Vinyl chloride	20.0	24.1	121	5	30	70-134	
cis-1,3-Dichloropropene	20.0	21.2	106	3	30	75-124	
Styrene	20.0	21.7	109	5	30	78-123	

Column to be used to flag recovery and RPD values

FORM III 8260C

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: K86417.D Lab Sample ID: MB 460-535216/7

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS9 Date Analyzed: 07/11/2018 09:33

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-535216/3	K86413.D	07/11/2018 07:47
	LCSD 460-535216/4	K86414.D	07/11/2018 08:11
PDI-18-SO-21-06282018	460-159550-5	K86426.D	07/11/2018 13:14

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: K86447.D Lab Sample ID: MB 460-535482/7

Matrix: Solid Heated Purge:(Y/N) Y

Instrument ID: CVOAMS9 Date Analyzed: 07/11/2018 21:44

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-535482/3	K86443.D	07/11/2018 20:07
	LCSD 460-535482/4	K86444.D	07/11/2018 20:31
PDI-19-SO-79-06282018	460-159550-6	K86450.D	07/11/2018 22:57
PDI-20-SO-73-06292018	460-159550-8	K86458.D	07/12/2018 02:14

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: A58435.D Lab Sample ID: MB 460-534459/8

Matrix: Water Heated Purge:(Y/N) N

Instrument ID: CVOAMS1 Date Analyzed: 07/08/2018 20:32

GC Column: Rtx-624 ID: 0.25(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-534459/4	A58431.D	07/08/2018 18:59
PDI-TB-06282018	460-159550-1	A58450.D	07/09/2018 02:32
PDI-FB-06292018	460-159550-3	A58451.D	07/09/2018 02:56
PDI-19-WG-85-06282018	460-159550-2	A58452.D	07/09/2018 03:19
PDI-20-WG-85-06292018	460-159550-4	A58453.D	07/09/2018 03:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: A58063.D BFB Injection Date: 07/02/2018

Instrument ID: CVOAMS1 BFB Injection Time: 04:55

Analysis Batch No.: 532718

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	22.9	
75	30.0 - 60.0 % of mass 95	51.7	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.3	
173	Less than 2.0 % of mass 174	0.8	(1.0) 1
174	50.0 - 120.00 % of mass 95	79.5	
175	5.0 - 9.0 % of mass 174	5.9	(7.5) 1
176	95.0 - 101.0 % of mass 174	75.6	(95.1) 1
177	5.0 - 9.0 % of mass 176	5.2	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD7 460-532718/4	A58066.D	07/02/2018	06:22
	STD5 460-532718/6	A58068.D	07/02/2018	07:08
	STD20 460-532718/7	A58069.D	07/02/2018	07:32
	STD50 460-532718/8	A58070.D	07/02/2018	07:55
	STD200 460-532718/9	A58071.D	07/02/2018	08:18
	STD500 460-532718/10	A58072.D	07/02/2018	08:42
	STD1 460-532718/15	A58077.D	07/02/2018	11:35

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: A58428.D BFB Injection Date: 07/08/2018

Instrument ID: CVOAMS1 BFB Injection Time: 17:45

Analysis Batch No.: 534459

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	21.7	
75	30.0 - 60.0 % of mass 95	54.4	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	7.2	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	71.0	
175	5.0 - 9.0 % of mass 174	5.7	(8.0) 1
176	95.0 - 101.0 % of mass 174	70.6	(99.3) 1
177	5.0 - 9.0 % of mass 176	5.4	(7.6) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-534459/3	A58430.D	07/08/2018	18:28
	LCS 460-534459/4	A58431.D	07/08/2018	18:59
	MB 460-534459/8	A58435.D	07/08/2018	20:32
PDI-TB-06282018	460-159550-1	A58450.D	07/09/2018	02:32
PDI-FB-06292018	460-159550-3	A58451.D	07/09/2018	02:56
PDI-19-WG-85-06282018	460-159550-2	A58452.D	07/09/2018	03:19
PDI-20-WG-85-06292018	460-159550-4	A58453.D	07/09/2018	03:42

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: K86116.D BFB Injection Date: 07/06/2018

Instrument ID: CVOAMS9 BFB Injection Time: 00:52

Analysis Batch No.: 533800

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	16.5	
75	30.0 - 60.0 % of mass 95	46.5	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	5.8	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	103.3	
175	5.0 - 9.0 % of mass 174	8.0	(7.8) 1
176	95.0 - 101.0 % of mass 174	102.0	(98.7) 1
177	5.0 - 9.0 % of mass 176	7.6	(7.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-533800/3	K86118.D	07/06/2018	01:46
	STD5 460-533800/4	K86119.D	07/06/2018	02:10
	STD20 460-533800/5	K86120.D	07/06/2018	02:35
	STD50 460-533800/6	K86121.D	07/06/2018	02:59
	STD200 460-533800/7	K86122.D	07/06/2018	03:23
	STD500 460-533800/8	K86123.D	07/06/2018	03:48

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: K86411.D BFB Injection Date: 07/11/2018

Instrument ID: CVOAMS9 BFB Injection Time: 06:56

Analysis Batch No.: 535216

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	43.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.6	
173	Less than 2.0 % of mass 174	0.0	(0.0) 1
174	50.0 - 120.00 % of mass 95	105.7	
175	5.0 - 9.0 % of mass 174	7.6	(7.2) 1
176	95.0 - 101.0 % of mass 174	101.5	(96.0) 1
177	5.0 - 9.0 % of mass 176	6.6	(6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-535216/2	K86412.D	07/11/2018	07:22
	LCS 460-535216/3	K86413.D	07/11/2018	07:47
	LCSD 460-535216/4	K86414.D	07/11/2018	08:11
	MB 460-535216/7	K86417.D	07/11/2018	09:33
PDI-18-SO-21-06282018	460-159550-5	K86426.D	07/11/2018	13:14

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab File ID: K86441.D BFB Injection Date: 07/11/2018

Instrument ID: CVOAMS9 BFB Injection Time: 19:14

Analysis Batch No.: 535482

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
50	15.0 - 40.0 % of mass 95	15.3	
75	30.0 - 60.0 % of mass 95	45.6	
95	Base Peak, 100% relative abundance	100.0	
96	5.0 - 9.0 % of mass 95	6.5	
173	Less than 2.0 % of mass 174	0.7	(0.6) 1
174	50.0 - 120.00 % of mass 95	103.9	
175	5.0 - 9.0 % of mass 174	8.1	(7.8) 1
176	95.0 - 101.0 % of mass 174	99.5	(95.8) 1
177	5.0 - 9.0 % of mass 176	6.9	(6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-535482/2	K86442.D	07/11/2018	19:42
	LCS 460-535482/3	K86443.D	07/11/2018	20:07
	LCSD 460-535482/4	K86444.D	07/11/2018	20:31
	MB 460-535482/7	K86447.D	07/11/2018	21:44
PDI-19-SO-79-06282018	460-159550-6	K86450.D	07/11/2018	22:57
PDI-20-SO-73-06292018	460-159550-8	K86458.D	07/12/2018	02:14

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-534459/3 Date Analyzed: 07/08/2018 18:28

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): A58430.D Heated Purge: (Y/N) N

Calibration ID: 69773

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		213139	3.33	273188	4.29	429451	5.16
UPPER LIMIT		426278	3.83	546376	4.79	858902	5.66
LOWER LIMIT		106570	2.83	136594	3.79	214726	4.66
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534459/4		251673	3.32	351066	4.29	419700	5.16
MB 460-534459/8		193142	3.33	286551	4.29	351334	5.16
460-159550-1	PDI-TB-06282018	210450	3.32	268634	4.29	316079	5.16
460-159550-3	PDI-FB-06292018	207350	3.32	260997	4.29	308387	5.16
460-159550-2	PDI-19-WG-85-06282018	212275	3.32	286244	4.29	313934	5.16
460-159550-4	PDI-20-WG-85-06292018	169400	3.33	264516	4.29	290729	5.16

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-534459/3 Date Analyzed: 07/08/2018 18:28

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): A58430.D Heated Purge: (Y/N) N

Calibration ID: 69773

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		20680	5.68	263791	7.66	158226	9.07
UPPER LIMIT		41360	6.18	527582	8.16	316452	9.57
LOWER LIMIT		10340	5.18	131896	7.16	79113	8.57
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-534459/4		23185	5.69	282805	7.66	169764	9.07
MB 460-534459/8		16233	5.68	231515	7.66	136600	9.05
460-159550-1	PDI-TB-06282018	13694	5.69	214045	7.66	129993	9.05
460-159550-3	PDI-FB-06292018	16302	5.68	204895	7.66	116769	9.05
460-159550-2	PDI-19-WG-85-06282018	16597	5.68	215756	7.66	135548	9.05
460-159550-4	PDI-20-WG-85-06292018	14979	5.69	191932	7.66	109582	9.05

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-535216/2 Date Analyzed: 07/11/2018 07:22

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86412.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		452031	3.39	300495	4.45	617950	5.57
UPPER LIMIT		904062	3.89	600990	4.95	1235900	6.07
LOWER LIMIT		226016	2.89	150248	3.95	308975	5.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535216/3		423308	3.37	284043	4.45	630272	5.57
LCSD 460-535216/4		444859	3.36	295634	4.45	632786	5.57
MB 460-535216/7		385005	3.36	256091	4.45	613718	5.57
460-159550-5	PDI-18-SO-21-06282018	627139	3.36	408857	4.45	676842	5.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-535216/2 Date Analyzed: 07/11/2018 07:22

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86412.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		37419	6.28	518962	9.06	323662	11.50
UPPER LIMIT		74838	6.78	1037924	9.56	647324	12.00
LOWER LIMIT		18710	5.78	259481	8.56	161831	11.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535216/3		36783	6.27	528007	9.06	334825	11.50
LCSD 460-535216/4		38411	6.27	534383	9.06	336723	11.50
MB 460-535216/7		33743	6.27	503170	9.05	316747	11.50
460-159550-5	PDI-18-SO-21-06282018	50251	6.27	567599	9.06	356692	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-535482/2 Date Analyzed: 07/11/2018 19:42

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86442.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		TBAd9		BUT		FB	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		435405	3.37	289180	4.44	616774	5.57
UPPER LIMIT		870810	3.87	578360	4.94	1233548	6.07
LOWER LIMIT		217703	2.87	144590	3.94	308387	5.07
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535482/3		447916	3.38	300815	4.45	648221	5.57
LCSD 460-535482/4		400314	3.37	273656	4.44	625273	5.57
MB 460-535482/7		426542	3.37	275234	4.45	627854	5.57
460-159550-6	PDI-19-SO-79-06282018	597276	3.35	365589	4.44	577798	5.57
460-159550-8	PDI-20-SO-73-06292018	485471	3.37	301746	4.45	577674	5.57

TBAd9 = TBA-d9 (IS)
BUT = 2-Butanone-d5
FB = Fluorobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Sample No.: CCVIS 460-535482/2 Date Analyzed: 07/11/2018 19:42

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm)

Lab File ID (Standard): K86442.D Heated Purge: (Y/N) Y

Calibration ID: 69836

		DXE		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		38244	6.28	524302	9.06	324565	11.50
UPPER LIMIT		76488	6.78	1048604	9.56	649130	12.00
LOWER LIMIT		19122	5.78	262151	8.56	162283	11.00
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-535482/3		37279	6.27	551477	9.06	343577	11.50
LCSD 460-535482/4		34572	6.27	540777	9.06	339888	11.50
MB 460-535482/7		36831	6.27	536562	9.06	335136	11.50
460-159550-6	PDI-19-SO-79-06282018	47842	6.26	496939	9.06	320408	11.50
460-159550-8	PDI-20-SO-73-06292018	40136	6.28	479831	9.06	284566	11.50

DXE = 1,4-Dioxane-d8
CBNZd5 = Chlorobenzene-d5
DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII 8260C

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-TB-06282018 | Lab Sample ID: 460-159550-1

Matrix: Water | Lab File ID: A58450.D

Analysis Method: 8260C | Date Collected: 06/28/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND	*	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-TB-06282018 | Lab Sample ID: 460-159550-1

Matrix: Water | Lab File ID: A58450.D

Analysis Method: 8260C | Date Collected: 06/28/2018 00:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 02:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		74-132
460-00-4	4-Bromofluorobenzene	97		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	105		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58450.D
Lims ID: 460-159550-A-1
Client ID: PDI-TB-06282018
Sample Type: Client
Inject. Date: 09-Jul-2018 02:32:30 ALS Bottle#: 22 Worklist Smp#: 23
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-A-1
Misc. Info.: 460-0075082-023
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 06:42:55 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: maheseep Date: 09-Jul-2018 15:13:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 28 TBA-d9 (IS)	65	3.323	3.329	-0.006	0	210450	1000.0	
* 39 2-Butanone-d5	46	4.292	4.292	0.000	0	268634	250.0	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.682	-0.006	94	96798	52.4	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	135884	56.9	
* 64 Fluorobenzene	96	5.164	5.164	0.000	97	316079	50.0	
* 71 1,4-Dioxane-d8	96	5.688	5.682	0.006	0	13694	1000.0	
$ 81 Toluene-d8 (Surr)	98	6.493	6.493	0.000	98	298398	48.9	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	90	214045	50.0	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	85	93054	48.5	
* 119 1,4-Dichlorobenzene-d4	152	9.054	9.072	-0.018	97	129993	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00178 Amount Added: 1.00 Units: uL Run Reagent

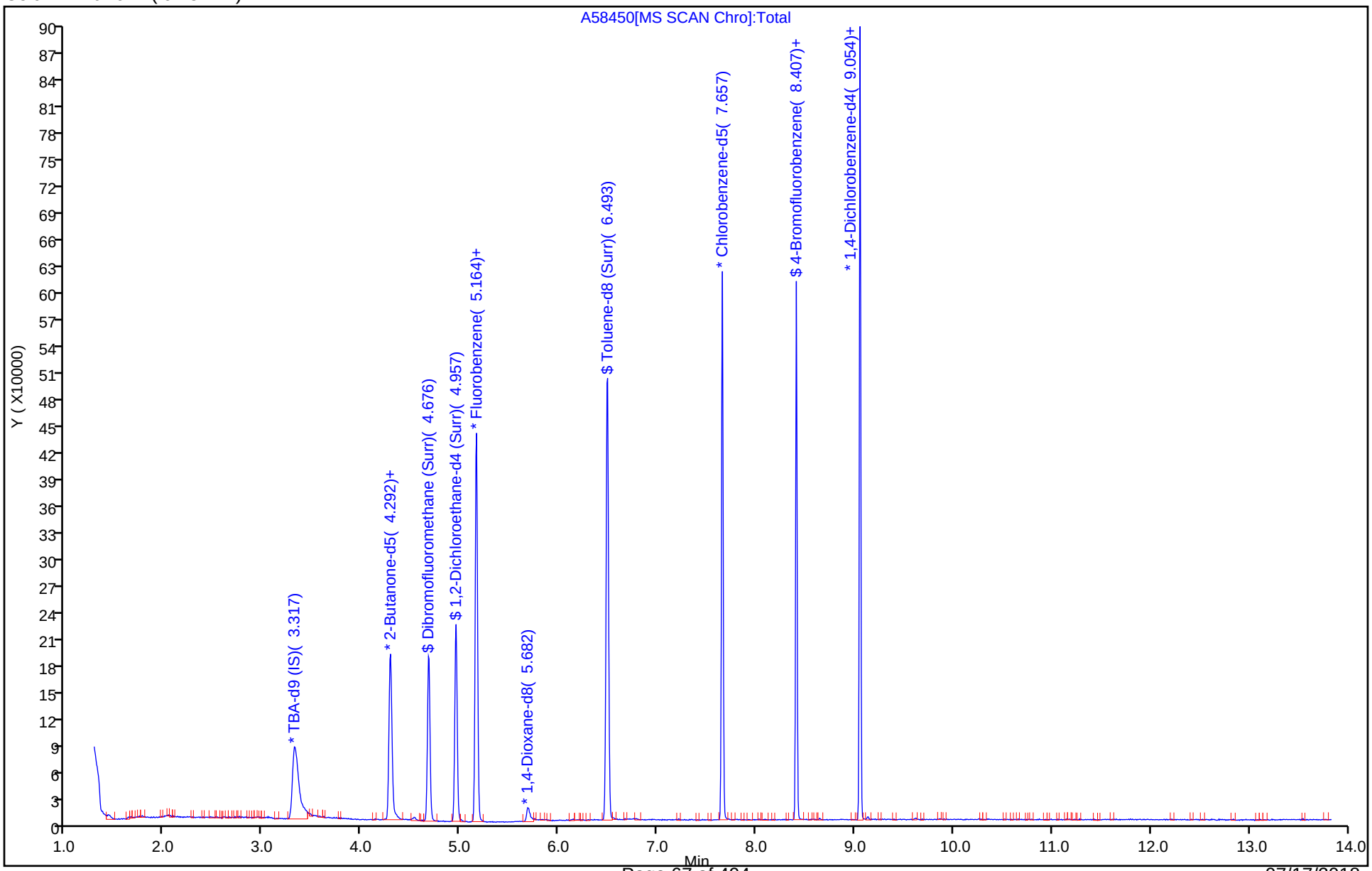
Report Date: 09-Jul-2018 06:46:10 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58450.D

Injection Date:	09-Jul-2018 02:32:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-159550-A-1	Lab Sample ID:	460-159550-1	Worklist Smp#:	23
Client ID:	PDI-TB-06282018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	22
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



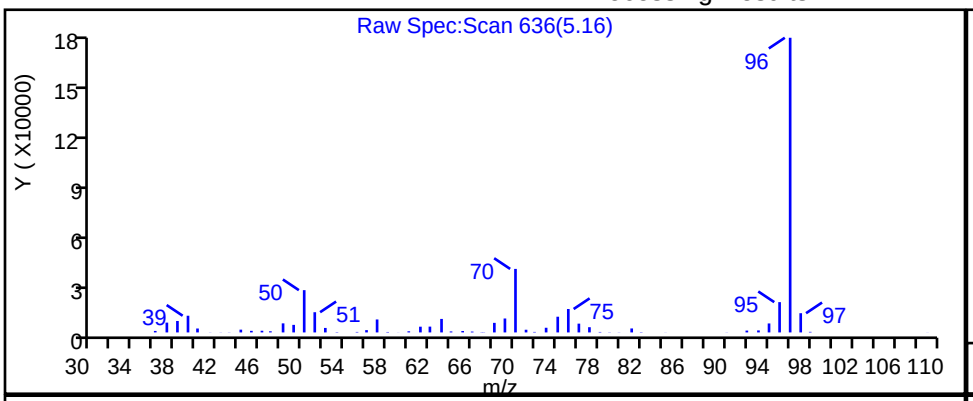
User Disabled Compound Report

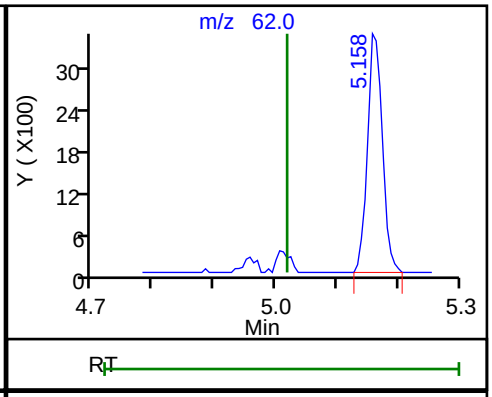
TestAmerica Edison

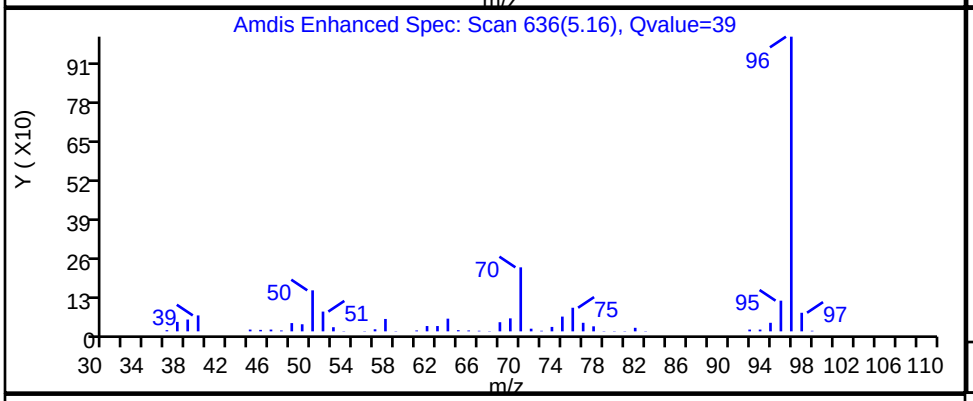
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58450.D		
Injection Date:	09-Jul-2018 02:32:30	Instrument ID:	CVOAMS1
Lims ID:	460-159550-A-1	Lab Sample ID:	460-159550-1
Client ID:	PDI-TB-06282018		
Operator ID:	VOA GC/MS1	ALS Bottle#:	22 Worklist Smp#: 23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

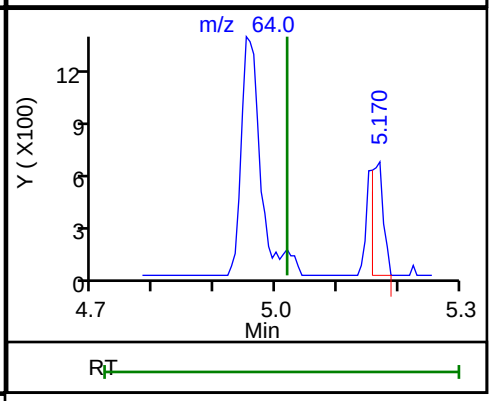
62 1,2-Dichloroethane, CAS: 107-06-2

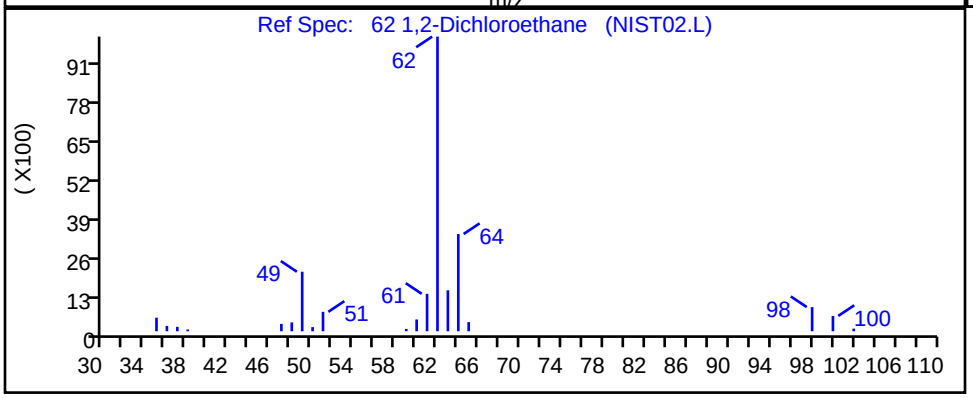
Processing Results











RT	Mass	Response	Amount
5.16	62.00	5910	1.674074
5.17	64.00	837	

Reviewer: maheseep, 09-Jul-2018 15:13:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

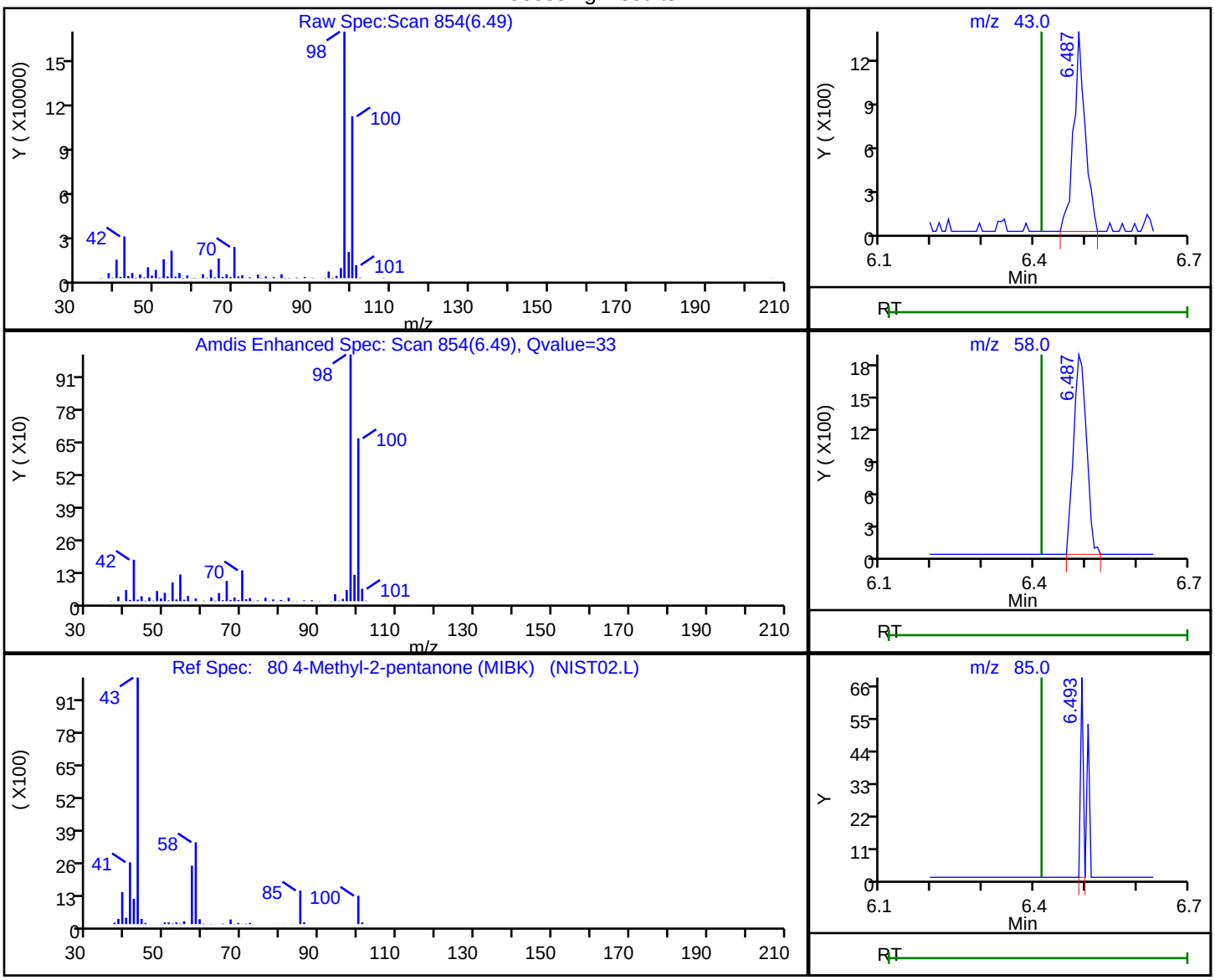
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58450.D				
Injection Date:	09-Jul-2018 02:32:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-1	Lab Sample ID:	460-159550-1		
Client ID:	PDI-TB-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	22	Worklist Smp#:	23
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

80 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.49	43.00	2142	0.713911
6.49	58.00	3315	
6.49	85.00	25	
6.49	100.00	196237	

Reviewer: maheseep, 09-Jul-2018 15:13:28

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-19-WG-85-06282018 | Lab Sample ID: 460-159550-2

Matrix: Water | Lab File ID: A58452.D

Analysis Method: 8260C | Date Collected: 06/28/2018 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 03:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	2.1		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	0.50	J	1.0	0.43
75-34-3	1,1-Dichloroethane	0.72	J	1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND	*	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	13		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	0.44	J	1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	0.31	J	1.0	0.14
156-59-2	cis-1,2-Dichloroethene	17		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-19-WG-85-06282018 | Lab Sample ID: 460-159550-2

Matrix: Water | Lab File ID: A58452.D

Analysis Method: 8260C | Date Collected: 06/28/2018 14:45

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 03:19

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	0.38	J	1.0	0.32
127-18-4	Tetrachloroethene	1.9		1.0	0.25
108-88-3	Toluene	0.67	J	1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	460		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		74-132
460-00-4	4-Bromofluorobenzene	106		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	102		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D
Lims ID: 460-159550-A-2
Client ID: PDI-19-WG-85-06282018
Sample Type: Client
Inject. Date: 09-Jul-2018 03:19:30 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-A-2
Misc. Info.: 460-0075082-025
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 15:55:44 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: maheseep Date: 09-Jul-2018 15:15:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
4 Chloromethane	50	1.744	1.750	-0.006	81	1246	0.3096	
19 Acetone	58	2.945	2.963	-0.018	84	3778	13.0	
27 Methylene Chloride	84	3.317	3.317	0.000	30	1071	0.3776	
* 28 TBA-d9 (IS)	65	3.317	3.329	-0.012	0	212275	1000.0	
35 1,1-Dichloroethane	63	3.865	3.866	-0.001	94	3404	0.7192	
* 39 2-Butanone-d5	46	4.292	4.292	0.000	0	286244	250.0	
41 cis-1,2-Dichloroethene	96	4.323	4.323	0.000	90	45343	16.5	
51 1,1,1-Trichloroethane	97	4.670	4.676	-0.006	37	7168	2.09	
$ 52 Dibromofluoromethane (Surr	113	4.682	4.682	0.000	95	93163	50.8	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	137945	58.2	
* 64 Fluorobenzene	96	5.164	5.164	0.000	97	313934	50.0	
66 Trichloroethene	95	5.426	5.426	0.000	95	1051830	463.4	
* 71 1,4-Dioxane-d8	96	5.682	5.682	0.000	0	16597	1000.0	
75 Dichlorobromomethane	83	5.859	5.865	-0.006	92	671	0.2297	
$ 81 Toluene-d8 (Surr)	98	6.493	6.493	0.000	98	305298	49.6	
82 Toluene	91	6.554	6.554	0.000	91	5986	0.6658	
85 1,1,2-Trichloroethane	83	6.956	6.962	-0.006	93	810	0.4979	
86 Tetrachloroethene	166	6.999	6.999	0.000	92	4175	1.93	
90 Chlorodibromomethane	129	7.249	7.249	0.000	96	788	0.4386	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	91	215756	50.0	
101 Bromoform	173	8.224	8.224	0.000	43	393	0.3500	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	87	102831	53.1	
* 119 1,4-Dichlorobenzene-d4	152	9.053	9.072	-0.019	97	135548	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00178 Amount Added: 1.00 Units: uL Run Reagent

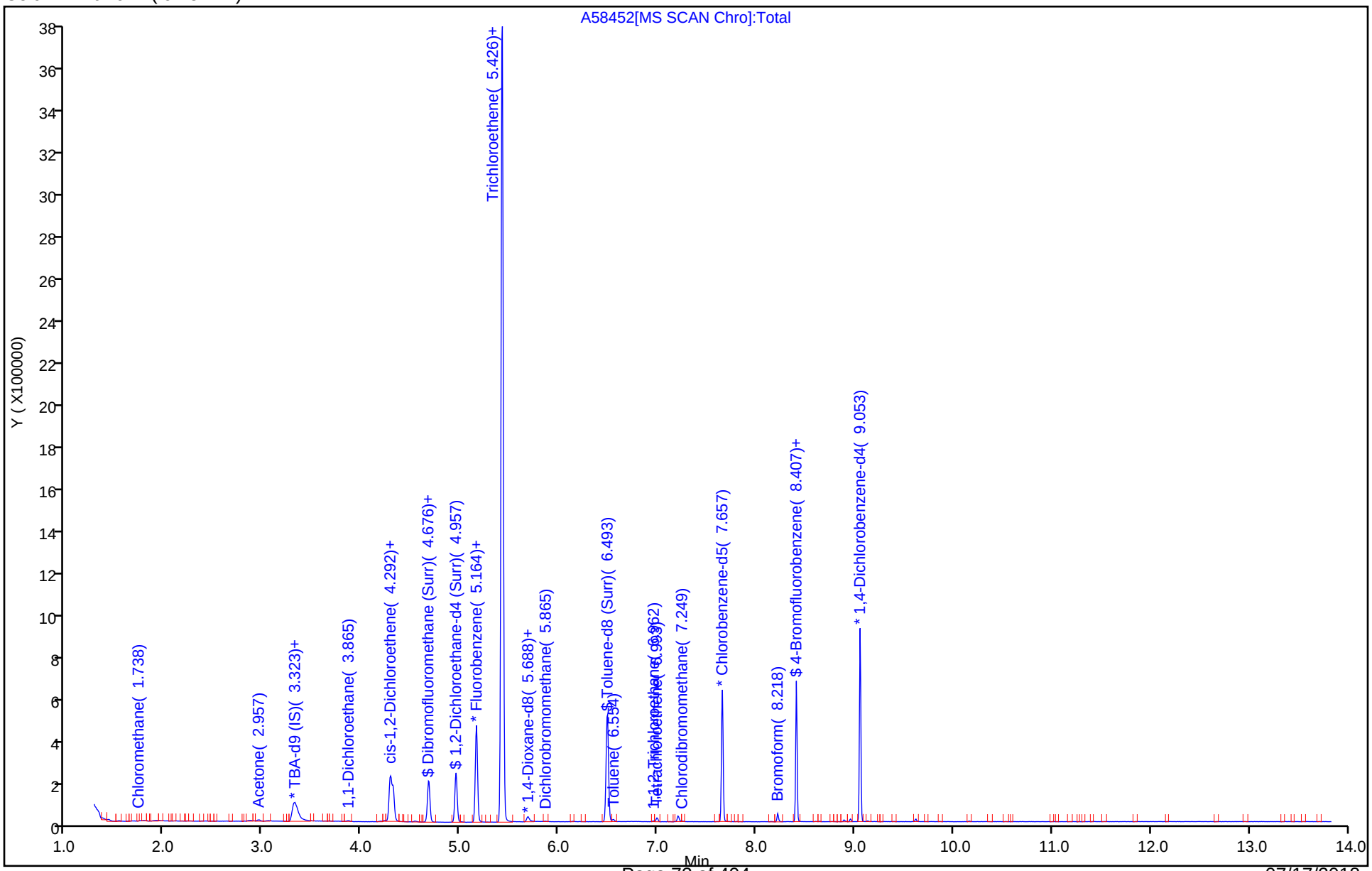
Report Date: 09-Jul-2018 15:55:46 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D

Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2	Worklist Smp#:	25
Client ID:	PDI-19-WG-85-06282018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	24
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

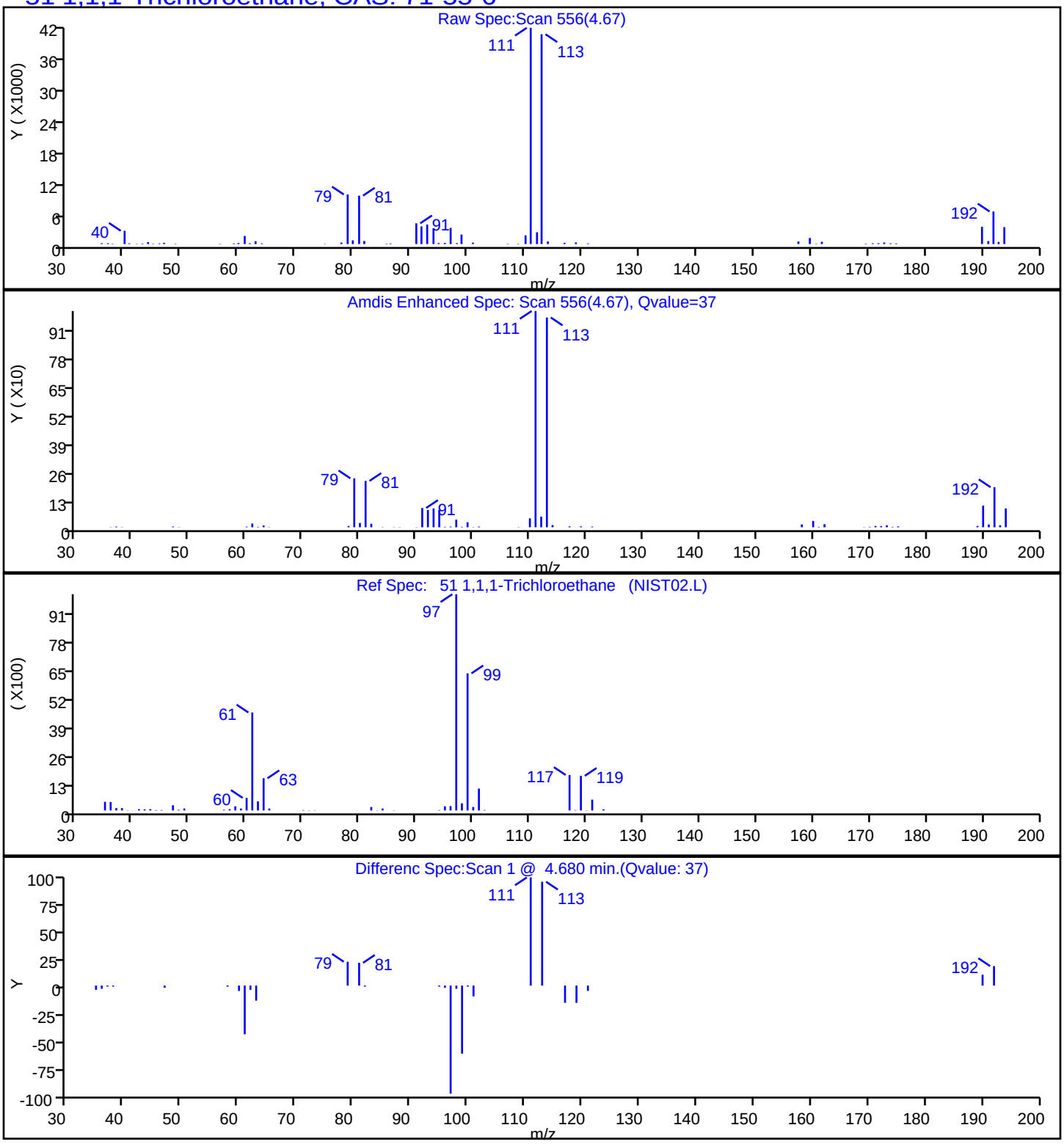
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

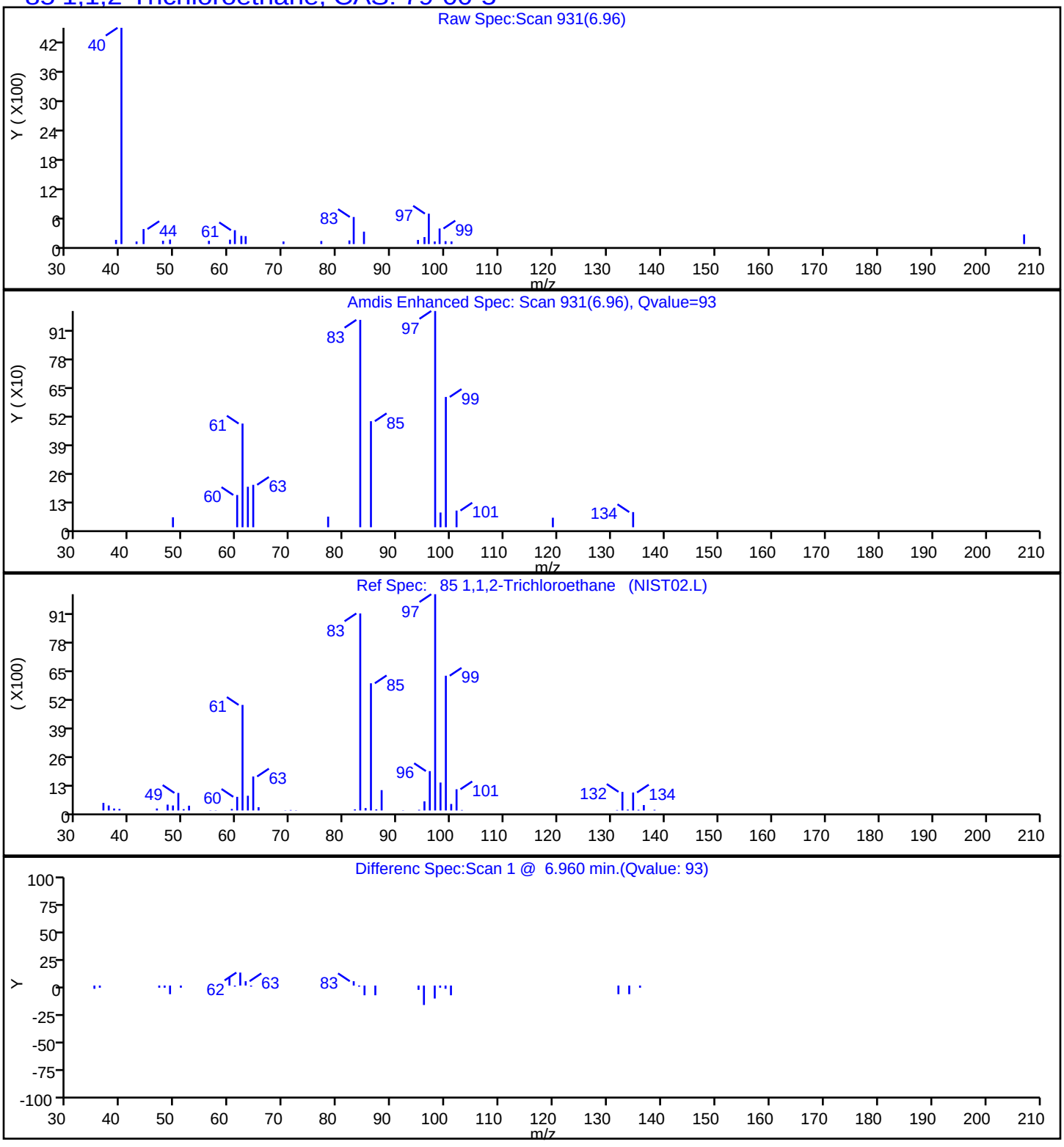
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

51 1,1,1-Trichloroethane, CAS: 71-55-6



Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D
Injection Date: 09-Jul-2018 03:19:30 Instrument ID: CVOAMS1
Lims ID: 460-159550-A-2 Lab Sample ID: 460-159550-2
Client ID: PDI-19-WG-85-06282018
Operator ID: VOA GC/MS1 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

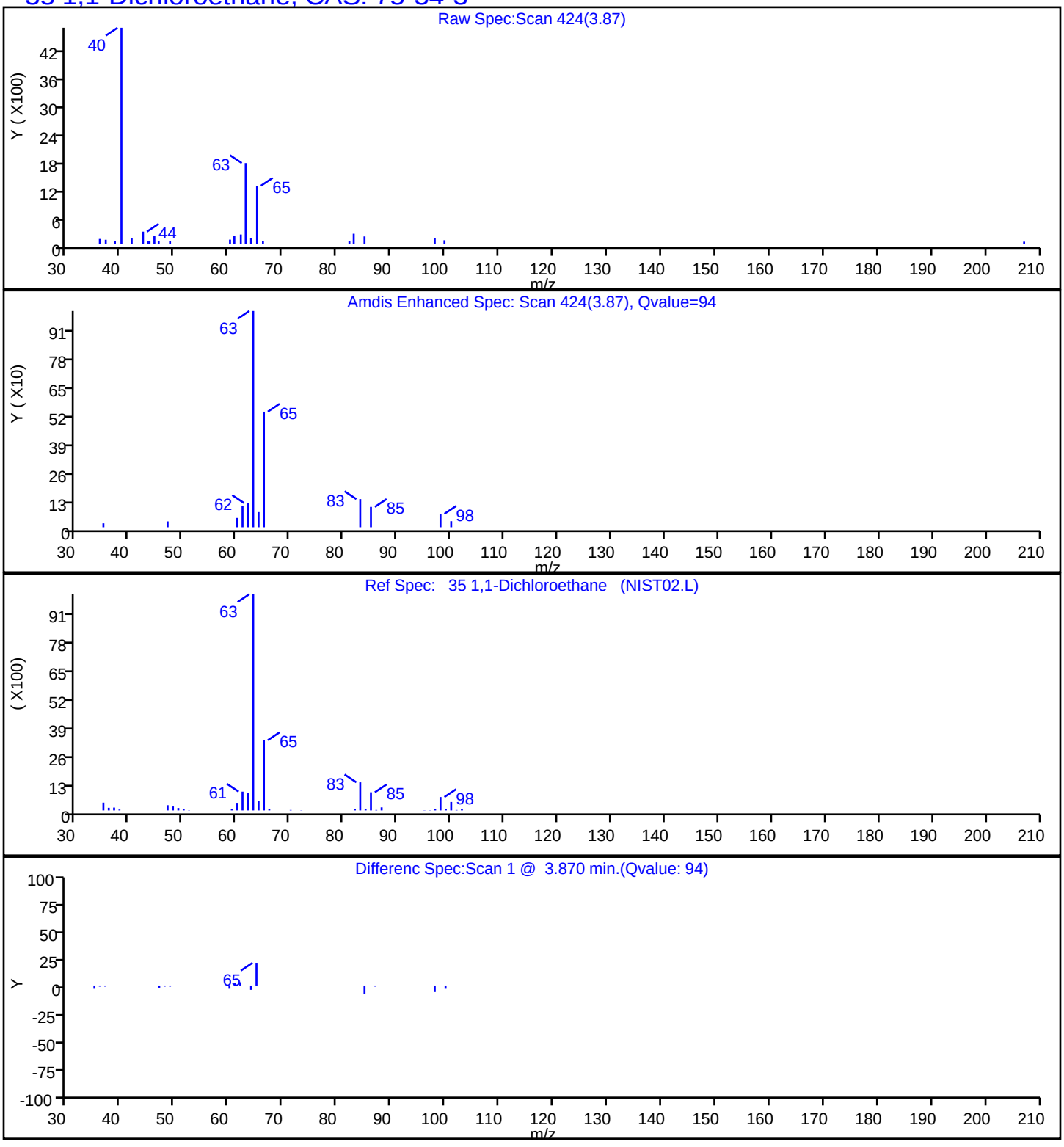
85 1,1,2-Trichloroethane, CAS: 79-00-5



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

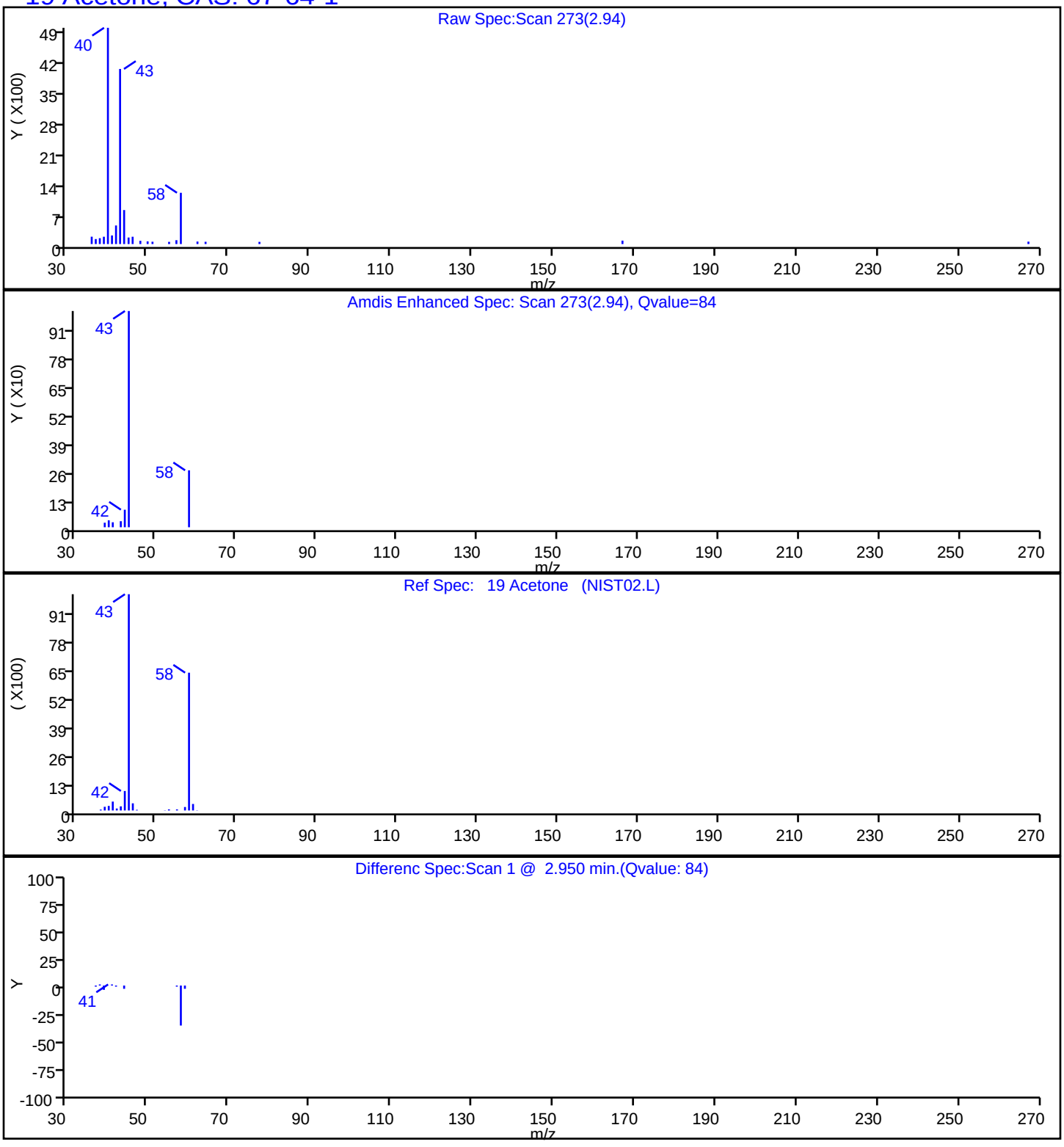
35 1,1-Dichloroethane, CAS: 75-34-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

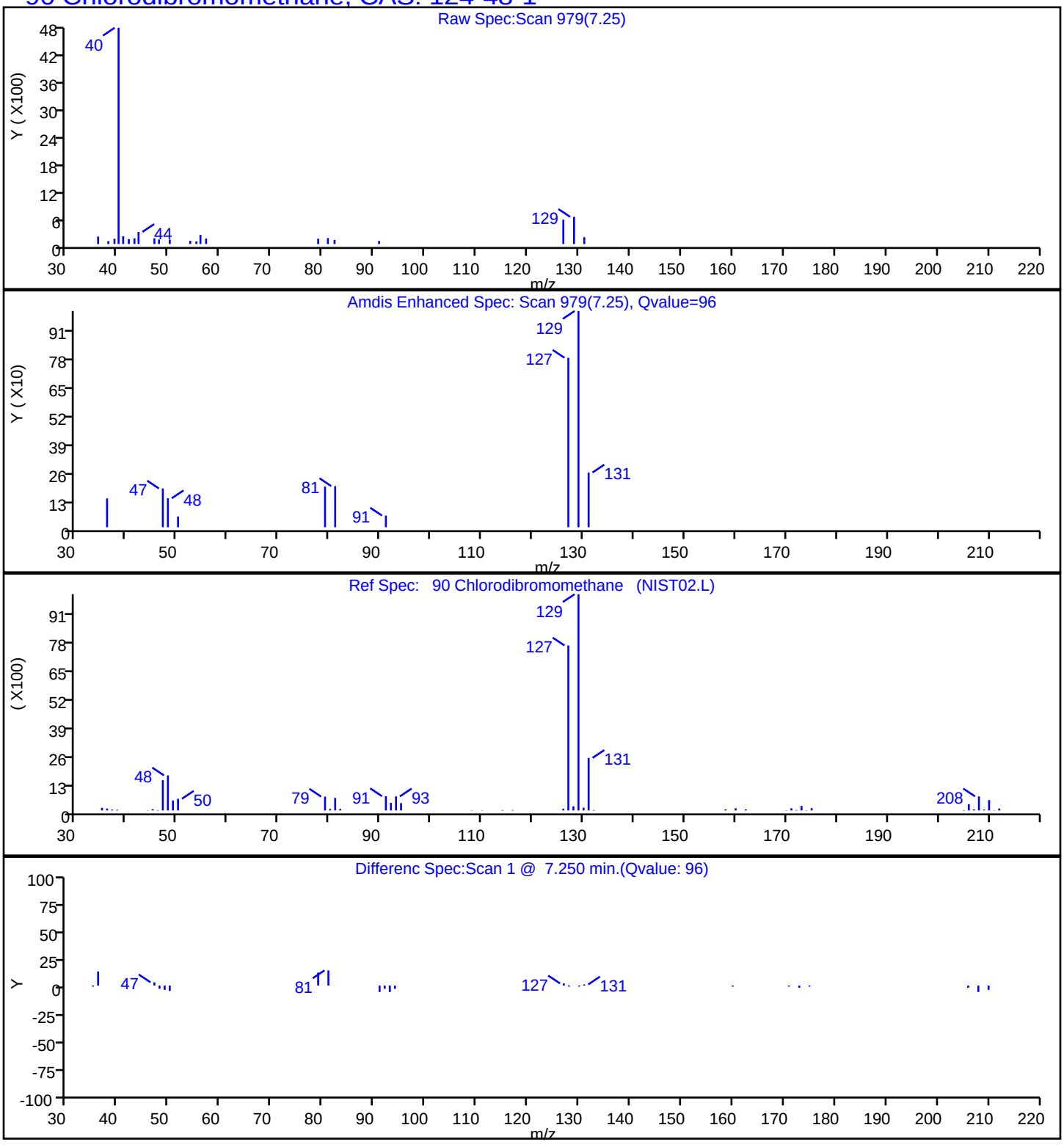
19 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

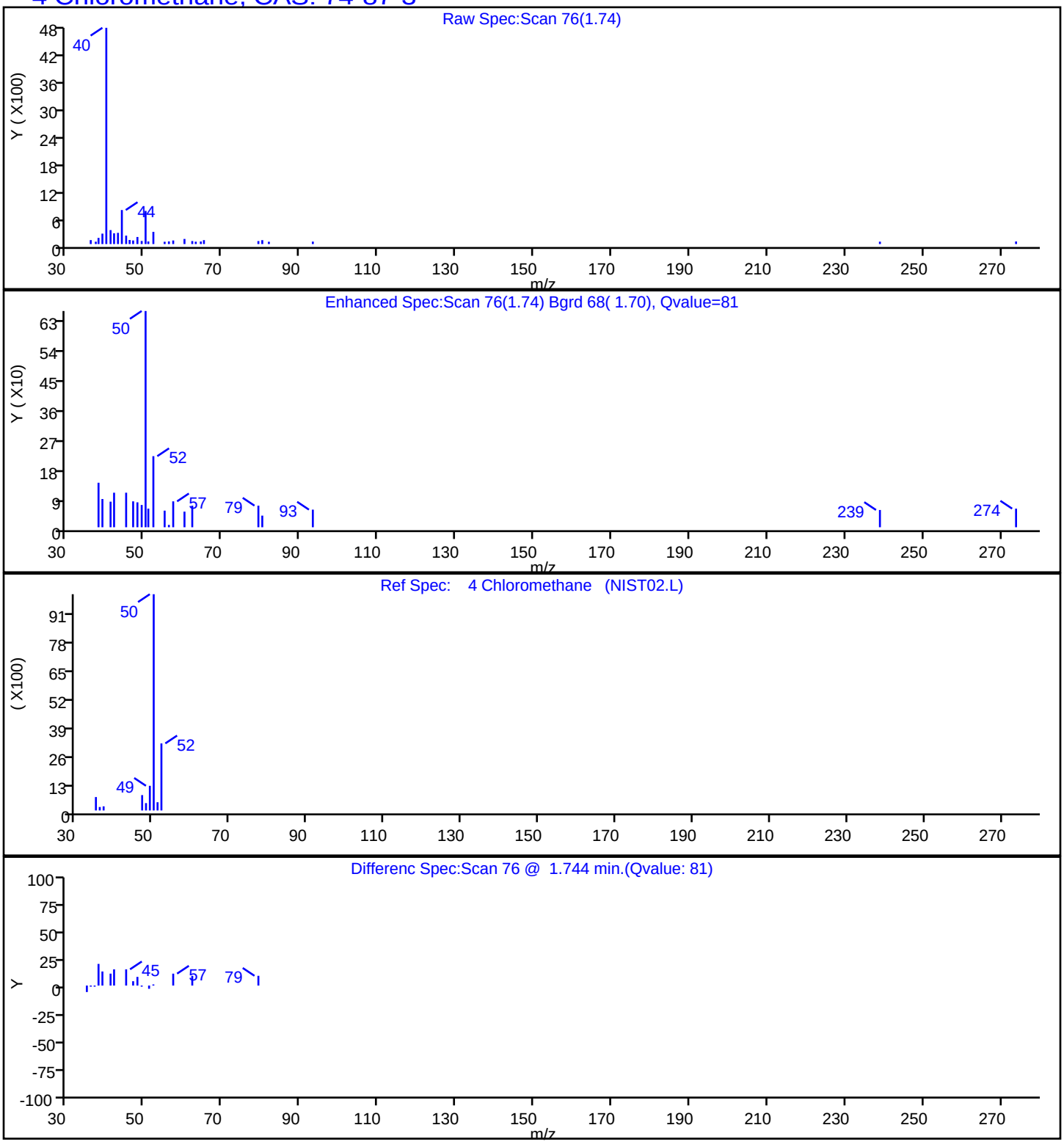
90 Chlorodibromomethane, CAS: 124-48-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

4 Chloromethane, CAS: 74-87-3



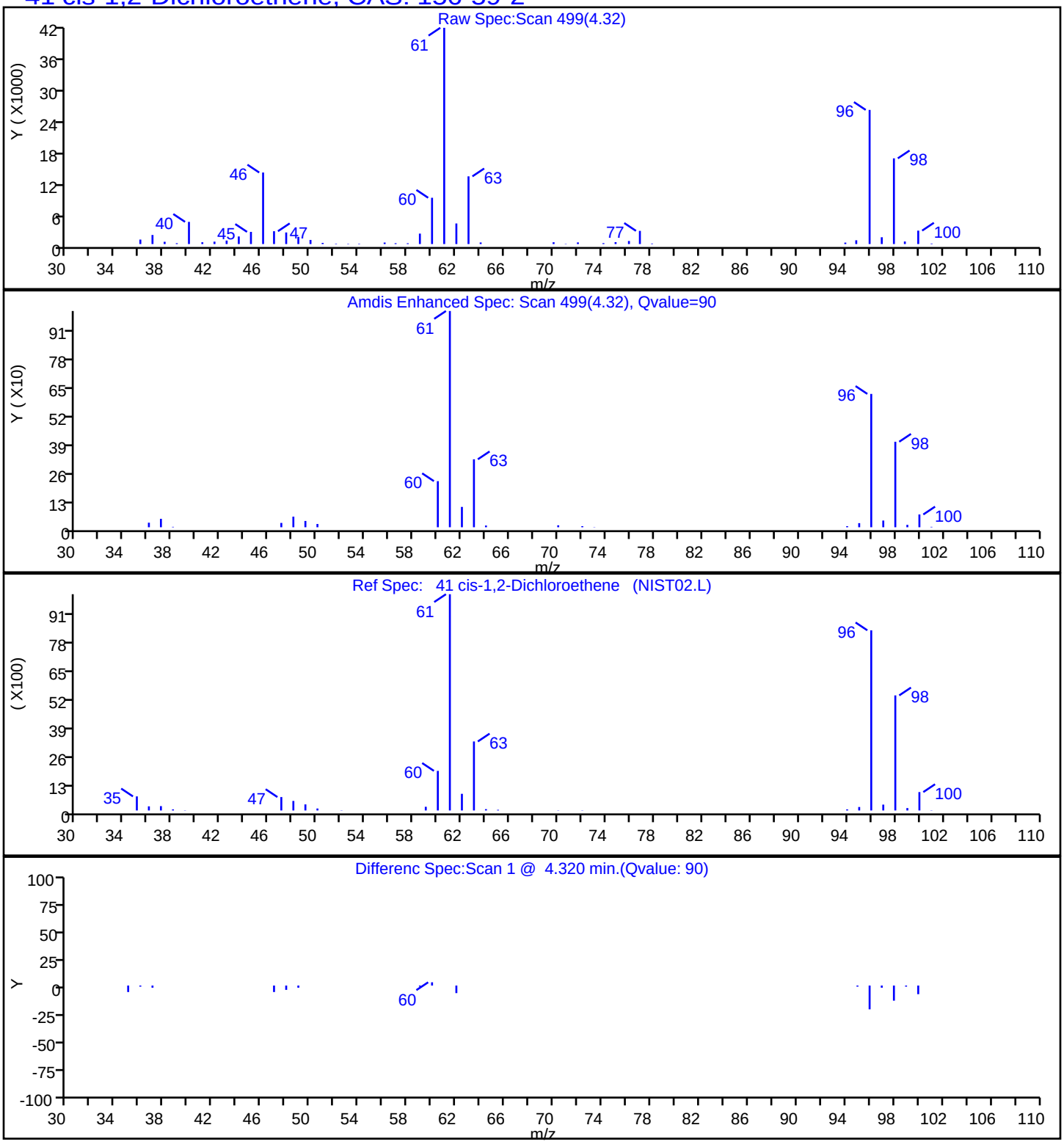
Report Date: 09-Jul-2018 15:55:46 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D

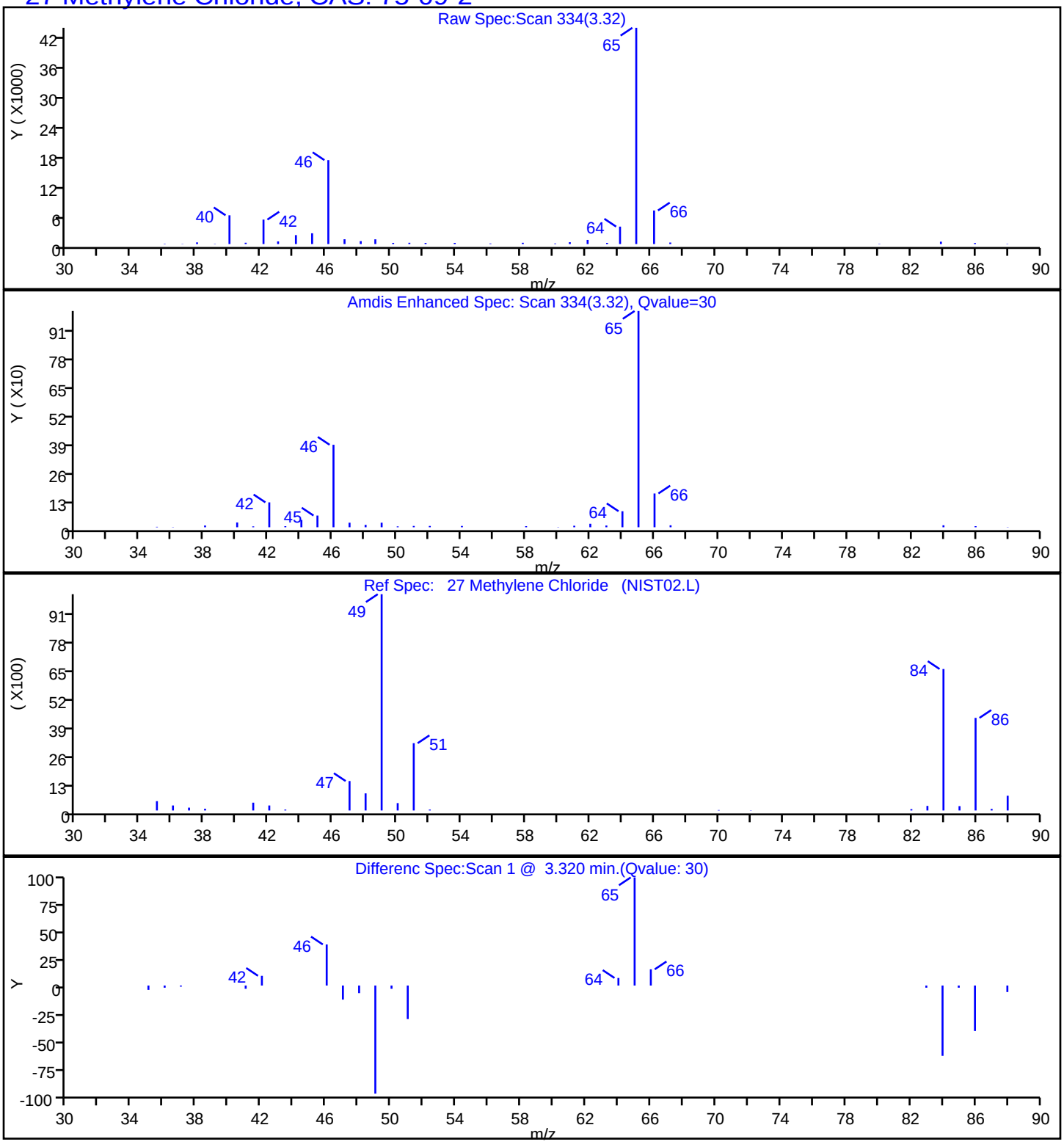
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

41 cis-1,2-Dichloroethene, CAS: 156-59-2



Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D
Injection Date: 09-Jul-2018 03:19:30 Instrument ID: CVOAMS1
Lims ID: 460-159550-A-2 Lab Sample ID: 460-159550-2
Client ID: PDI-19-WG-85-06282018
Operator ID: VOA GC/MS1 ALS Bottle#: 24 Worklist Smp#: 25
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

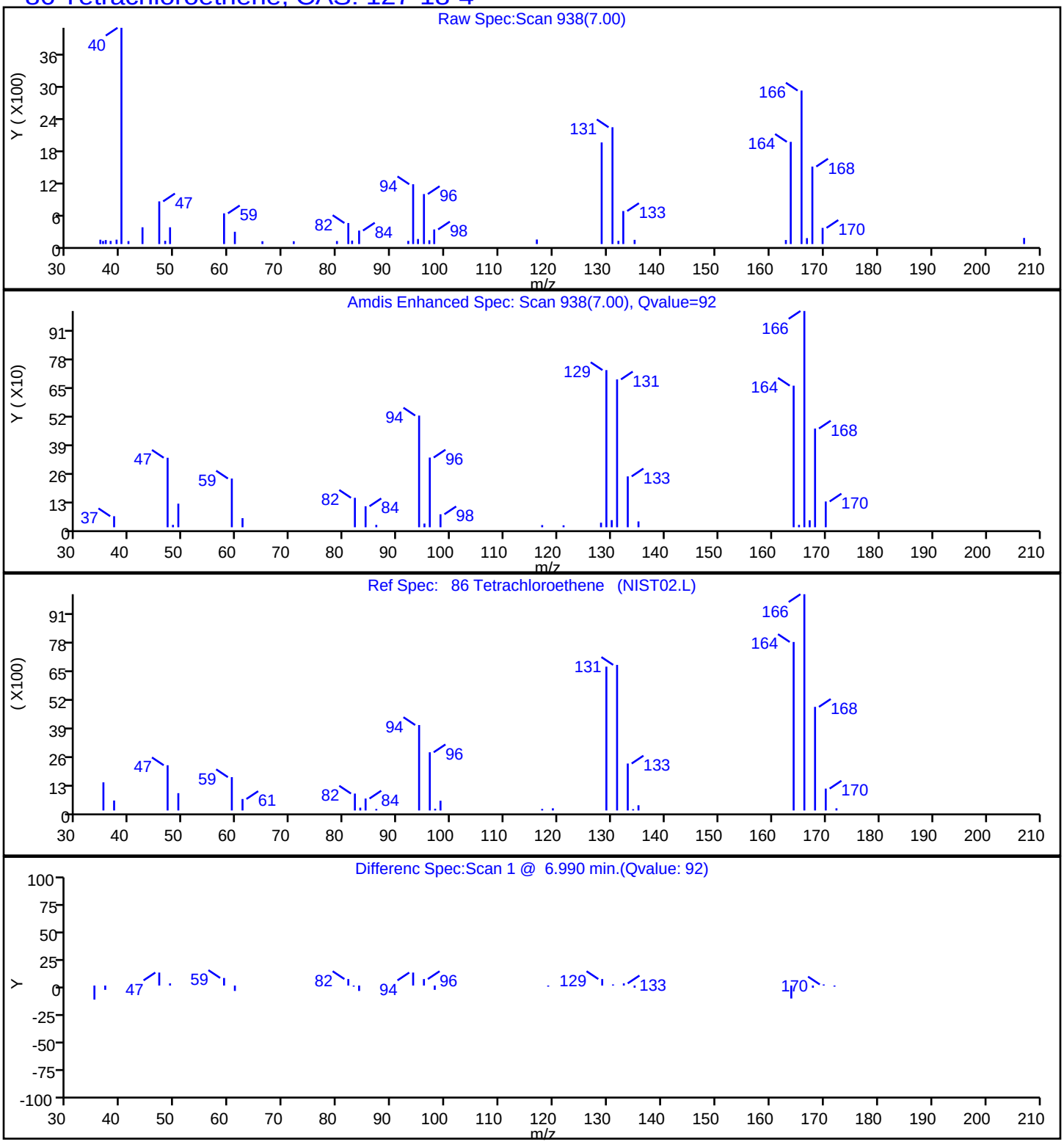
27 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

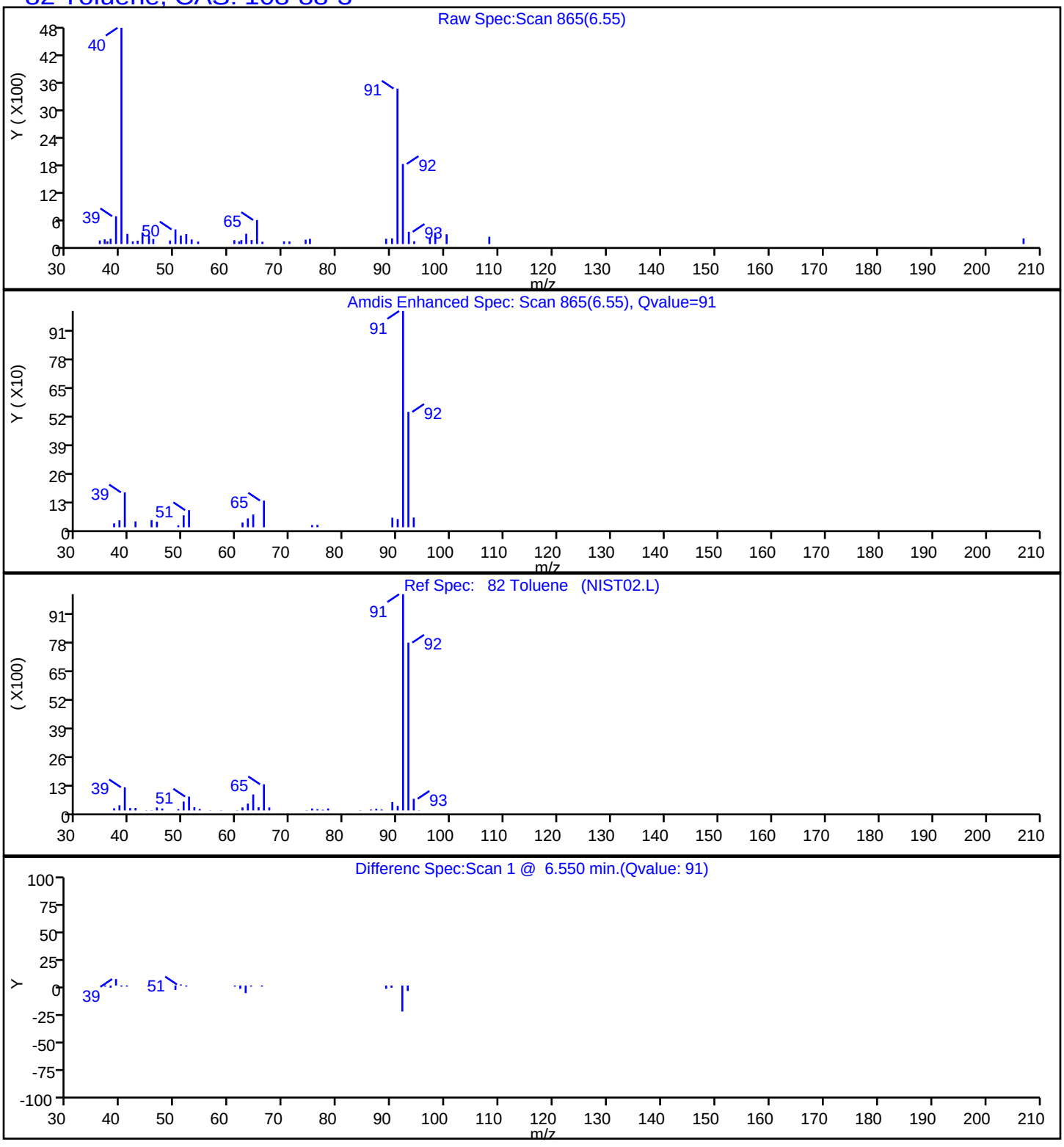
86 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

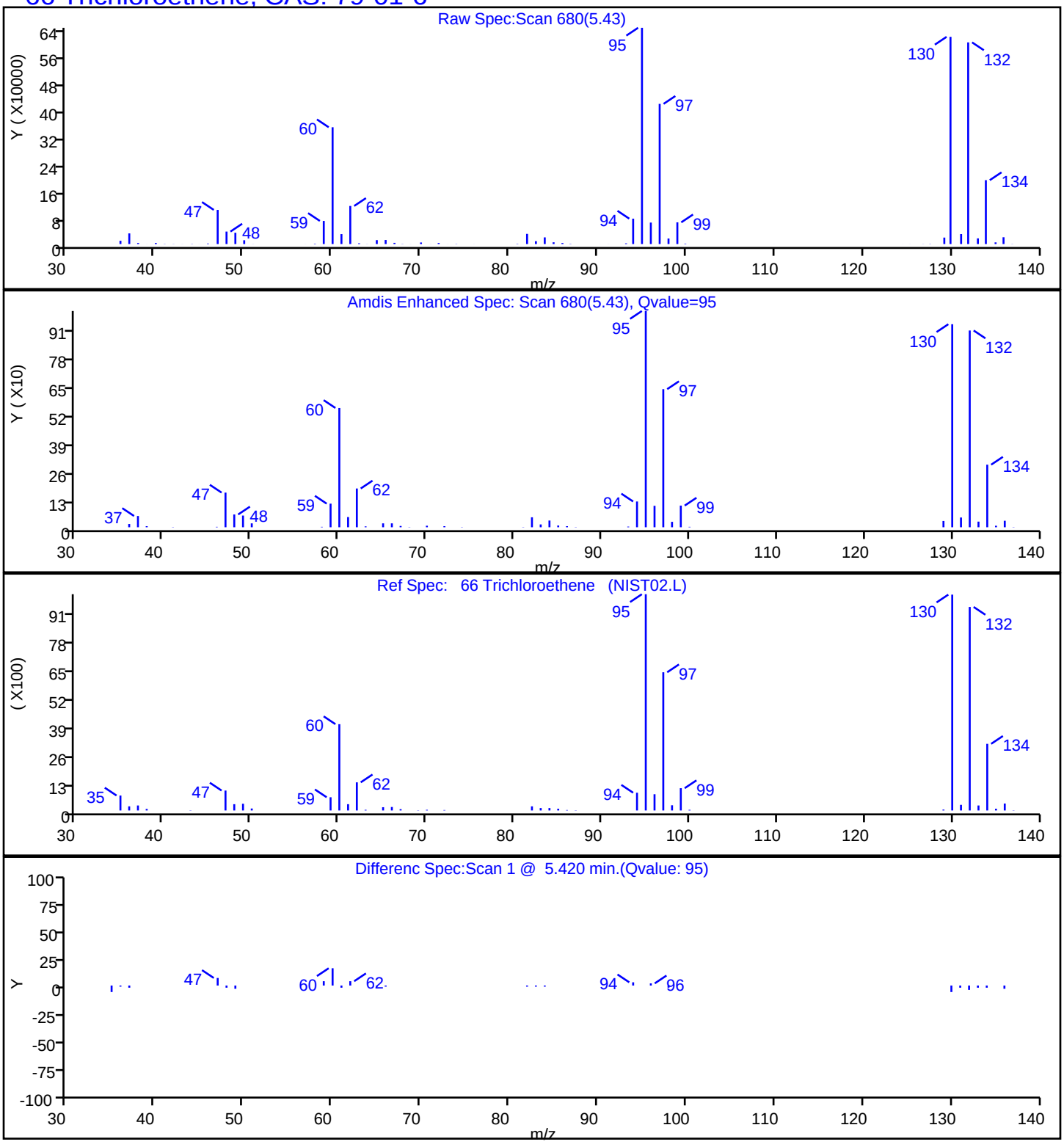
82 Toluene, CAS: 108-88-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

66 Trichloroethene, CAS: 79-01-6



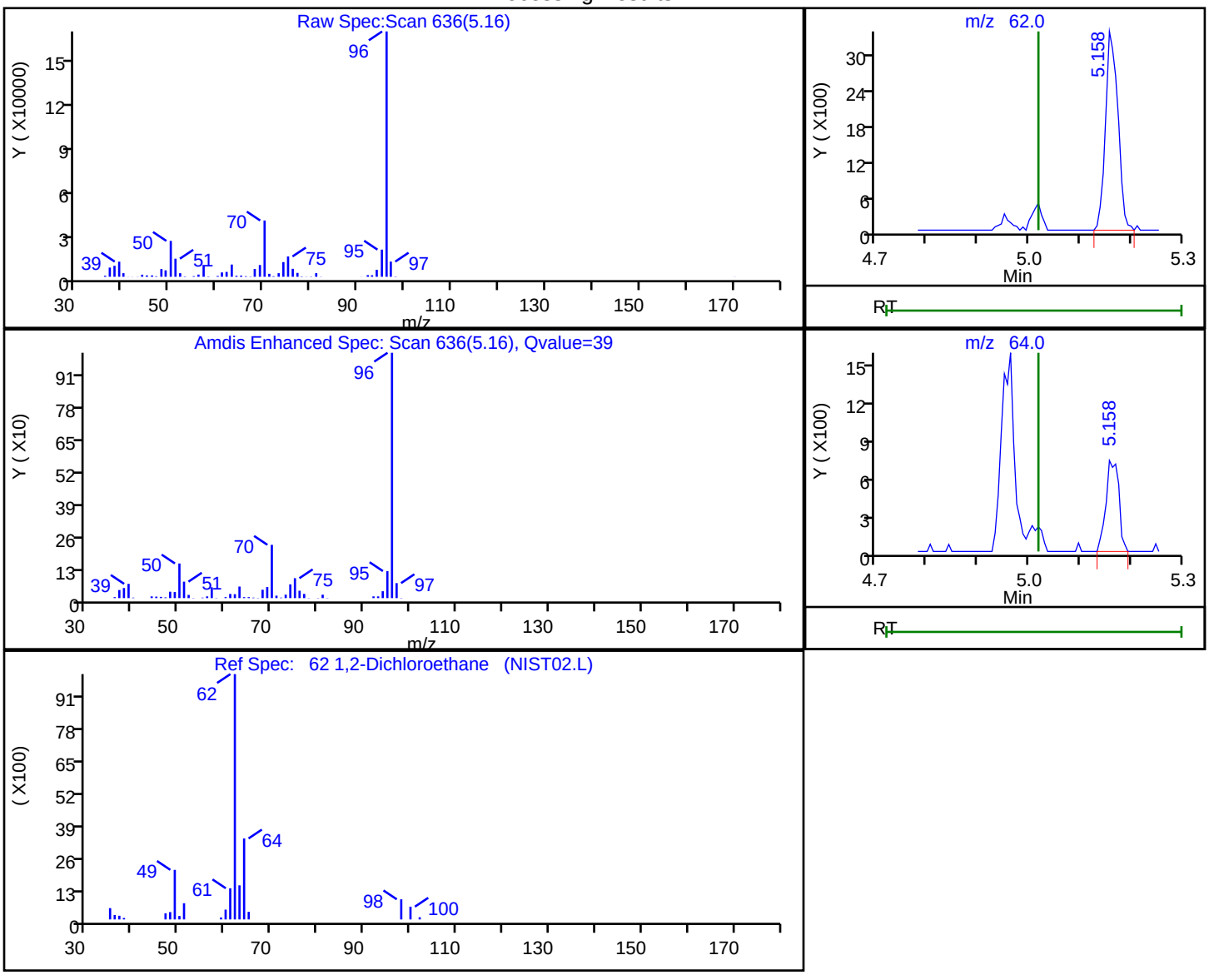
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

62 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.16	62.00	5670	1.617065
5.16	64.00	1228	

Reviewer: maheseep, 09-Jul-2018 15:14:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

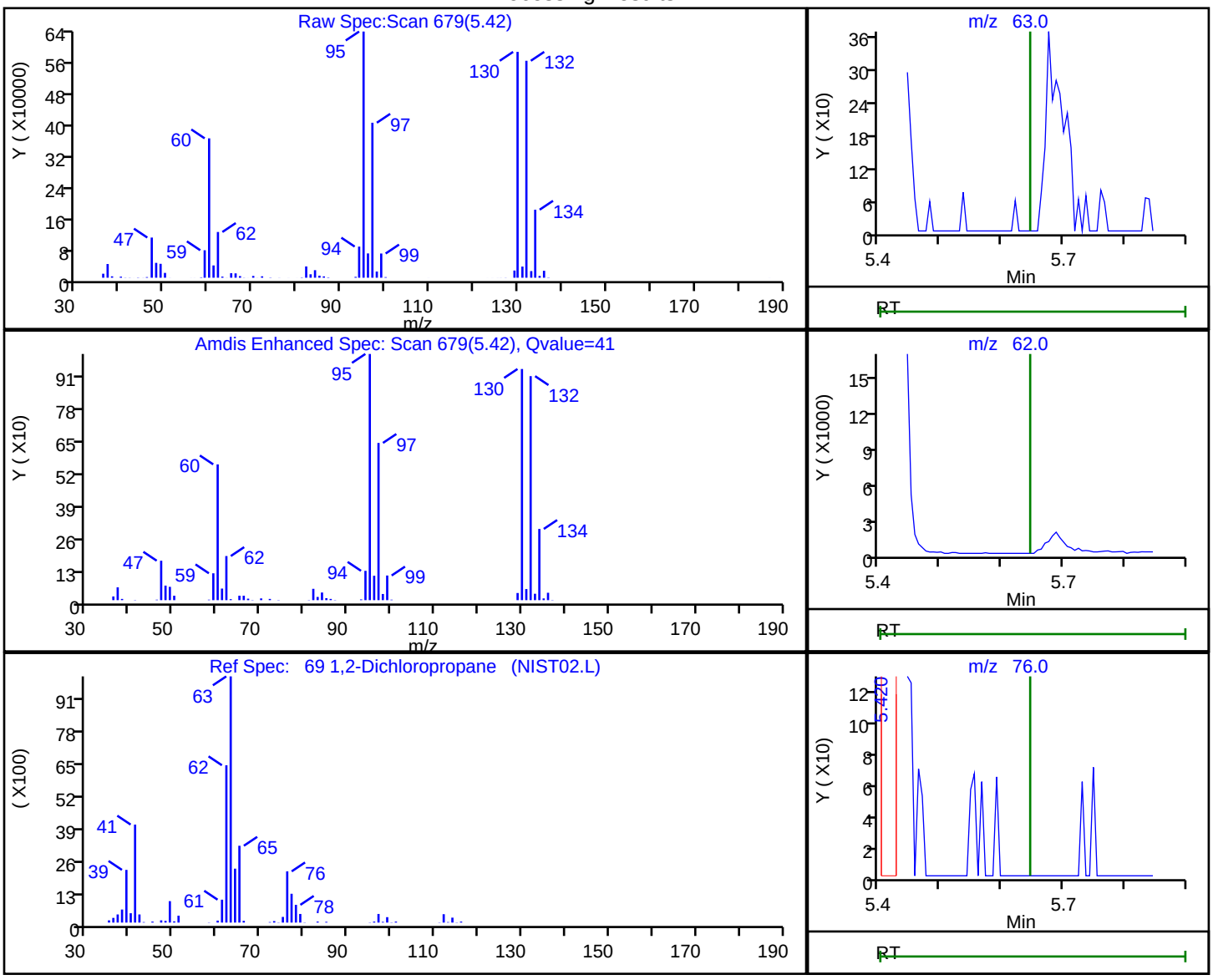
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

69 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.42	63.00	3984	1.623512
5.42	62.00	190019	
5.42	76.00	169	
5.65	112.00	0	

Reviewer: maheseep, 09-Jul-2018 15:14:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

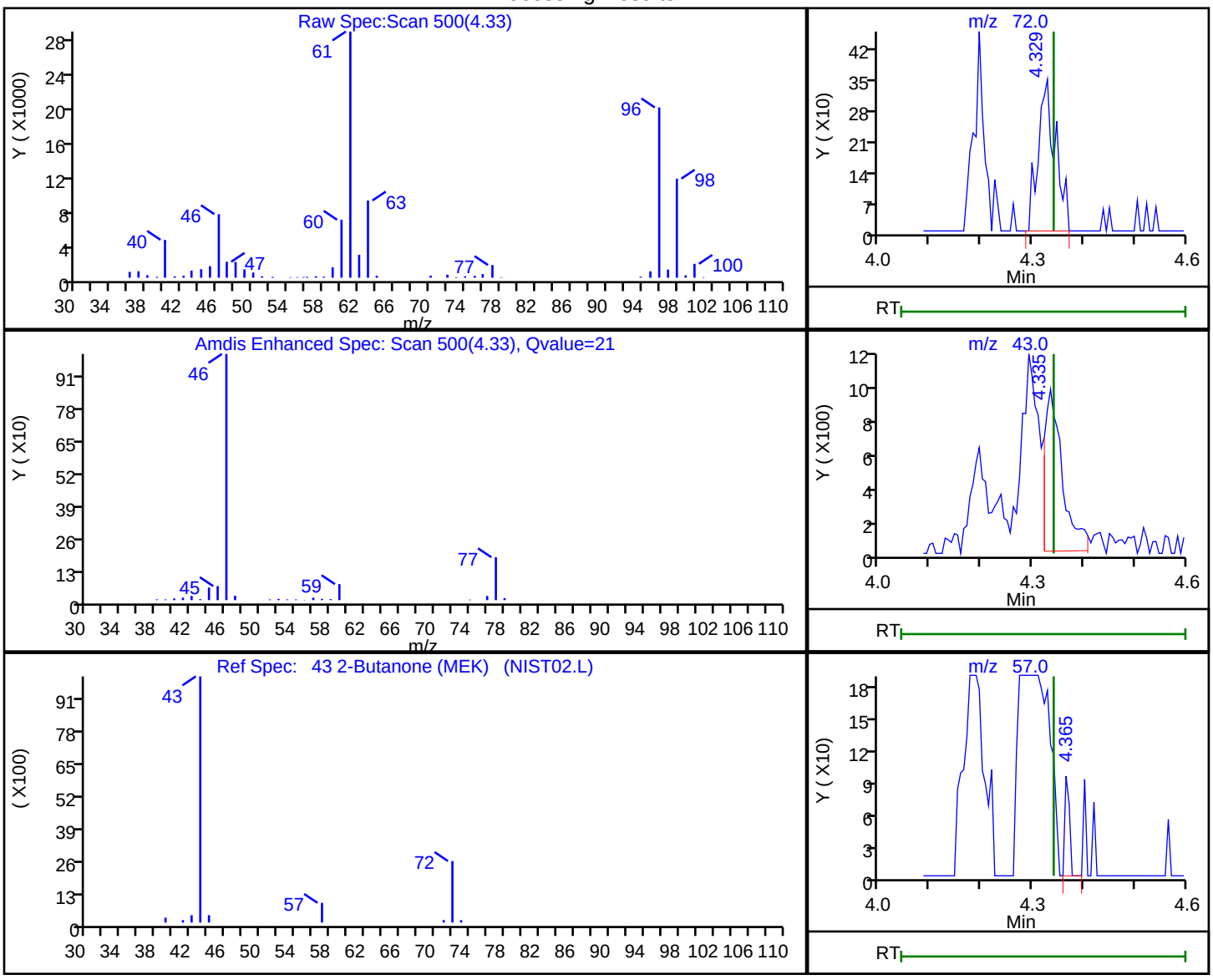
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

43 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
4.33	72.00	823	2.434478
4.33	43.00	2230	
4.37	57.00	58	

Reviewer: maheseep, 09-Jul-2018 15:14:27

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

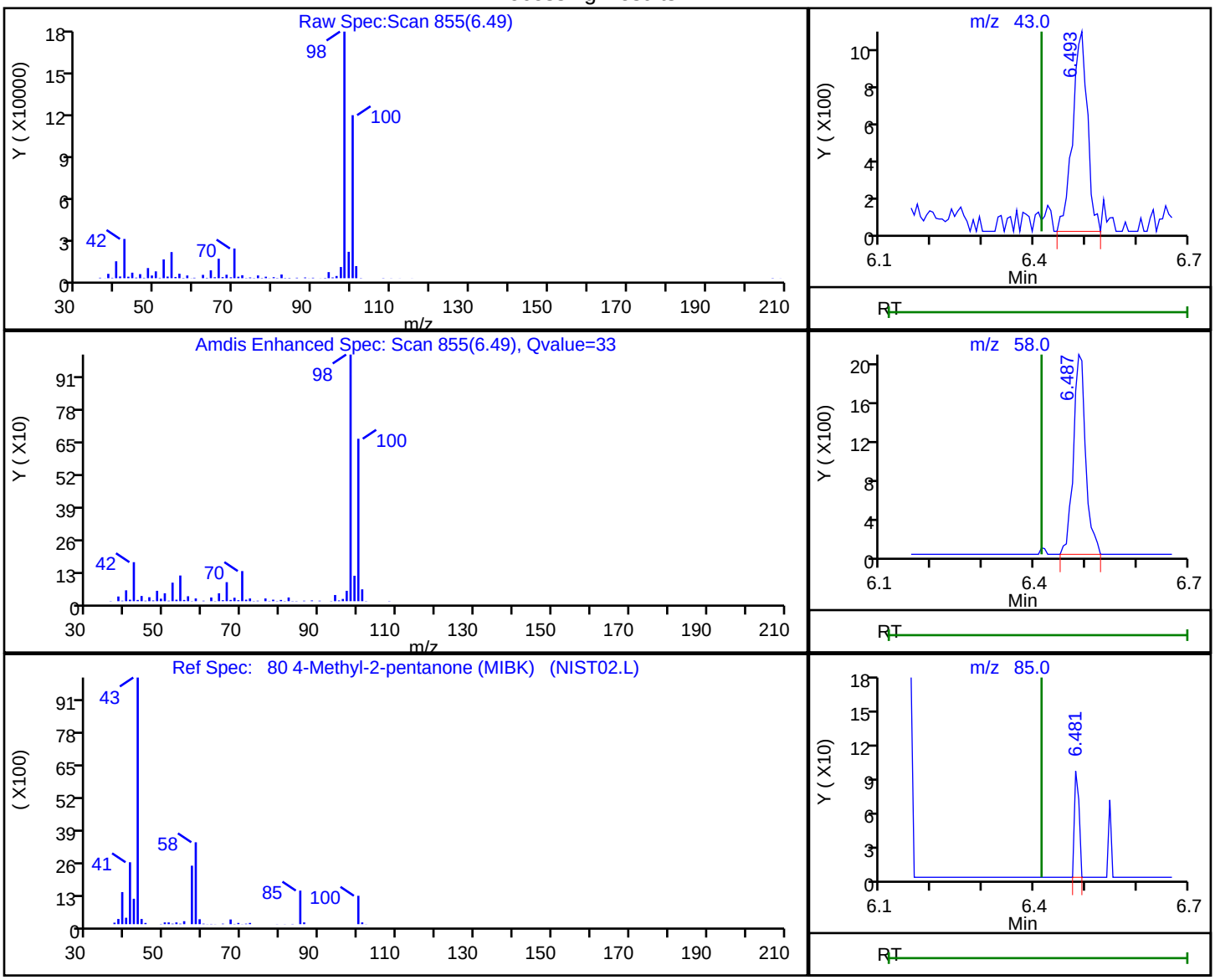
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

80 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.49	43.00	2161	0.675934
6.49	58.00	3360	
6.48	85.00	58	
6.49	100.00	202136	

Reviewer: maheseep, 09-Jul-2018 15:14:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

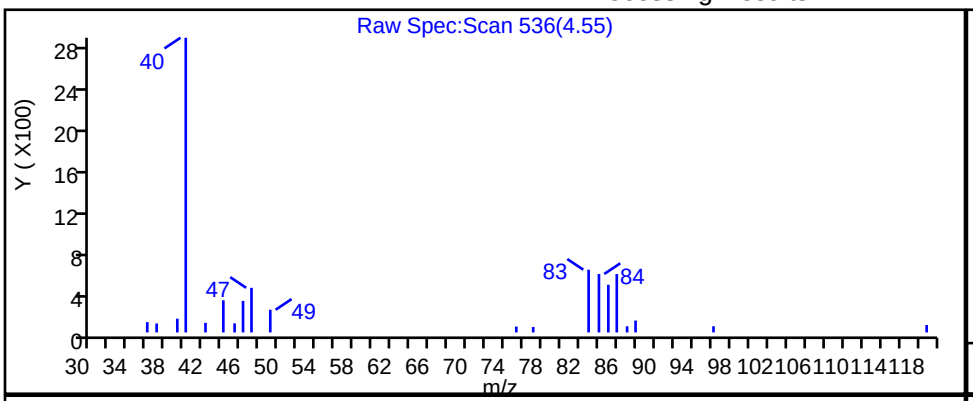
User Disabled Compound Report

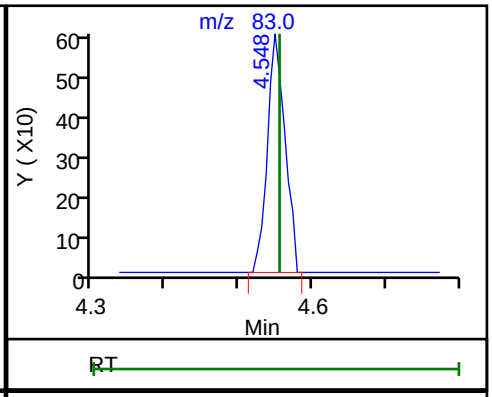
TestAmerica Edison

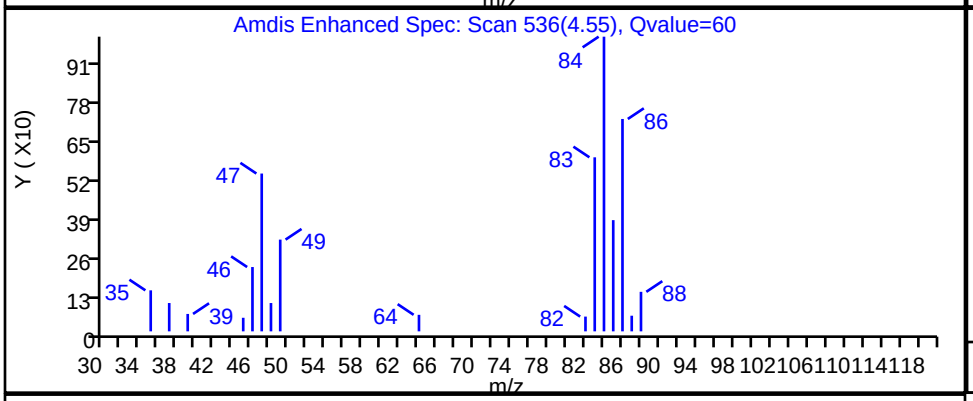
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58452.D				
Injection Date:	09-Jul-2018 03:19:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-2	Lab Sample ID:	460-159550-2		
Client ID:	PDI-19-WG-85-06282018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	24	Worklist Smp#:	25
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

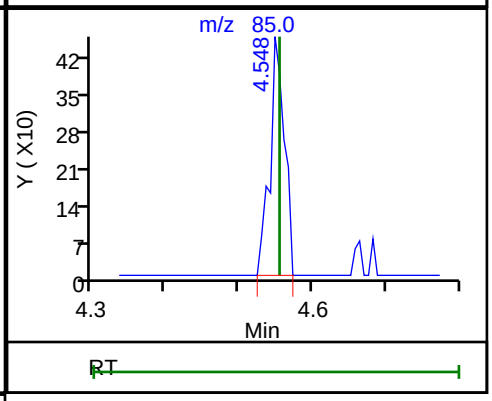
49 Chloroform, CAS: 67-66-3

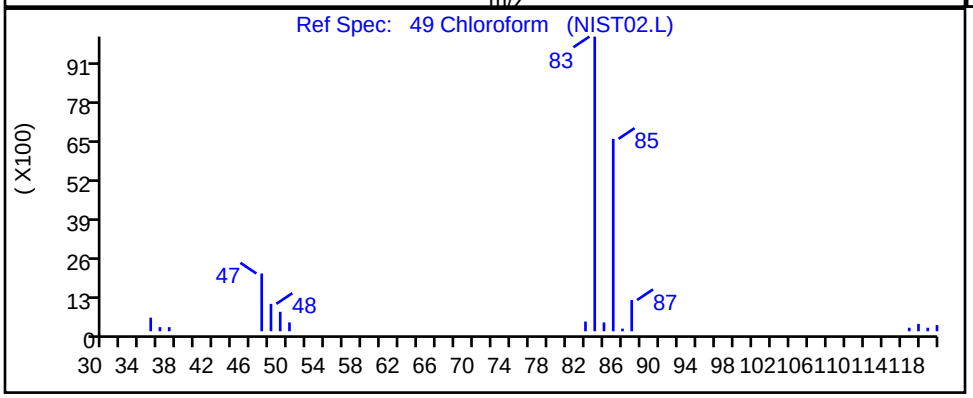
Processing Results











RT	Mass	Response	Amount
4.55	83.00	1008	0.233544
4.55	85.00	629	

Reviewer: kluseys, 09-Jul-2018 15:55:09

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-FB-06292018 | Lab Sample ID: 460-159550-3

Matrix: Water | Lab File ID: A58451.D

Analysis Method: 8260C | Date Collected: 06/29/2018 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 02:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND	*	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	8.1		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	12		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-FB-06292018 | Lab Sample ID: 460-159550-3

Matrix: Water | Lab File ID: A58451.D

Analysis Method: 8260C | Date Collected: 06/29/2018 09:15

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 02:56

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	4.6		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		74-132
460-00-4	4-Bromofluorobenzene	91		77-124
2037-26-5	Toluene-d8 (Surr)	99		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Lims ID:	460-159550-A-3				
Client ID:	PDI-FB-06292018				
Sample Type:	Client				
Inject. Date:	09-Jul-2018 02:56:30	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Sample Info:	460-159550-A-3				
Misc. Info.:	460-0075082-024				
Operator ID:	VOA GC/MS1	Instrument ID:	CVOAMS1		
Method:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	09-Jul-2018 06:42:55	Calib Date:	02-Jul-2018 11:35:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK003				
First Level Reviewer: maheseep		Date:	09-Jul-2018 15:14:07		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
19 Acetone	58	2.939	2.963	-0.024	84	3235	12.2	
27 Methylene Chloride	84	3.305	3.317	-0.012	88	12724	4.57	
* 28 TBA-d9 (IS)	65	3.317	3.329	-0.012	0	207350	1000.0	
* 39 2-Butanone-d5	46	4.286	4.292	-0.006	0	260997	250.0	
43 2-Butanone (MEK)	72	4.335	4.341	-0.006	97	2482	8.05	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.682	-0.006	95	94009	52.2	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.951	4.957	-0.006	0	130054	55.8	
* 64 Fluorobenzene	96	5.158	5.164	-0.006	97	308387	50.0	
* 71 1,4-Dioxane-d8	96	5.682	5.682	0.000	0	16302	1000.0	
$ 81 Toluene-d8 (Surr)	98	6.487	6.493	-0.006	97	289049	49.5	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	91	204895	50.0	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	83	84054	45.7	
* 119 1,4-Dichlorobenzene-d4	152	9.054	9.072	-0.018	97	116769	50.0	

Reagents:

8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

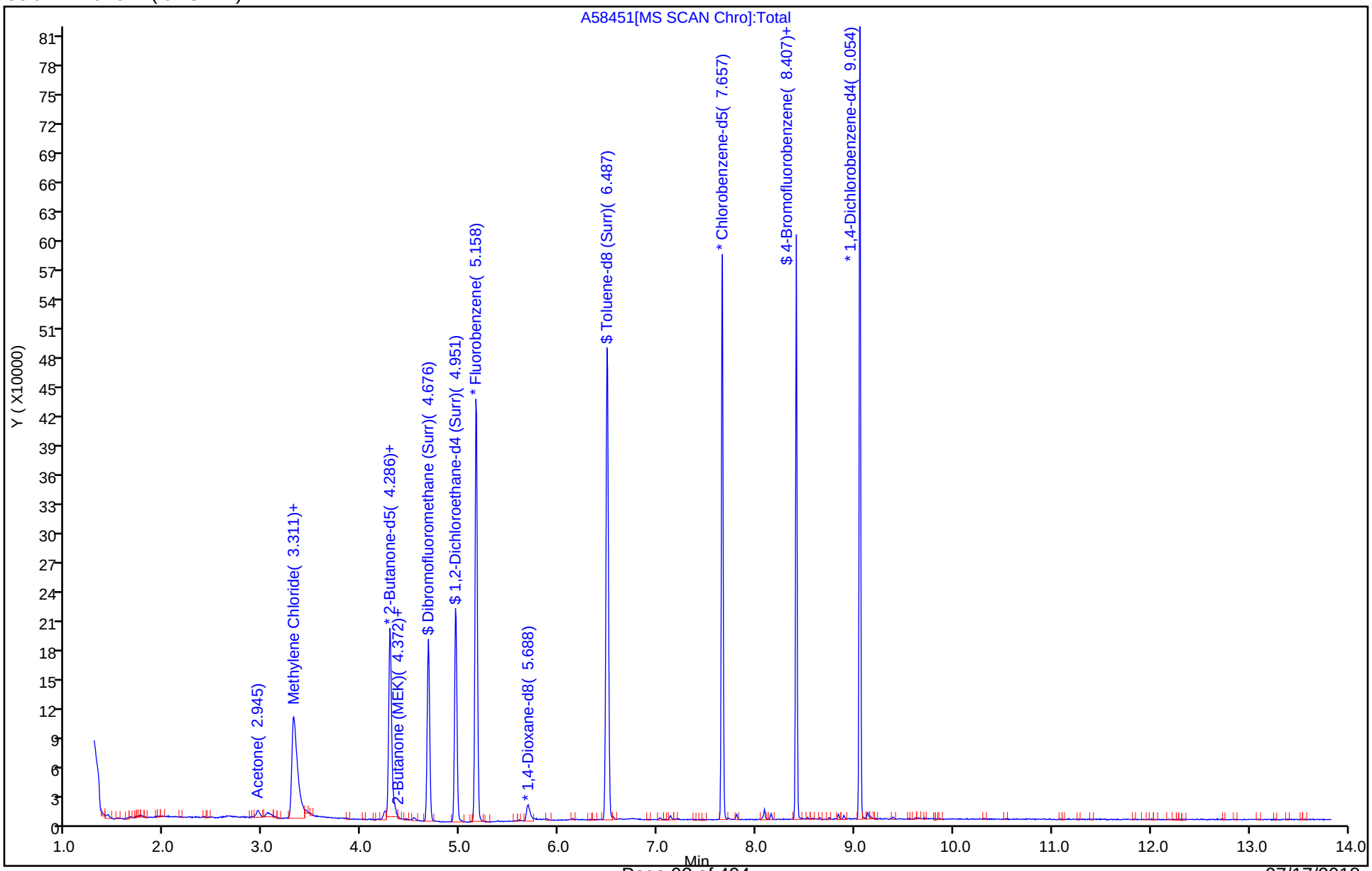
Report Date: 09-Jul-2018 06:46:12 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D

Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3	Worklist Smp#:	24
Client ID:	PDI-FB-06292018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	23
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

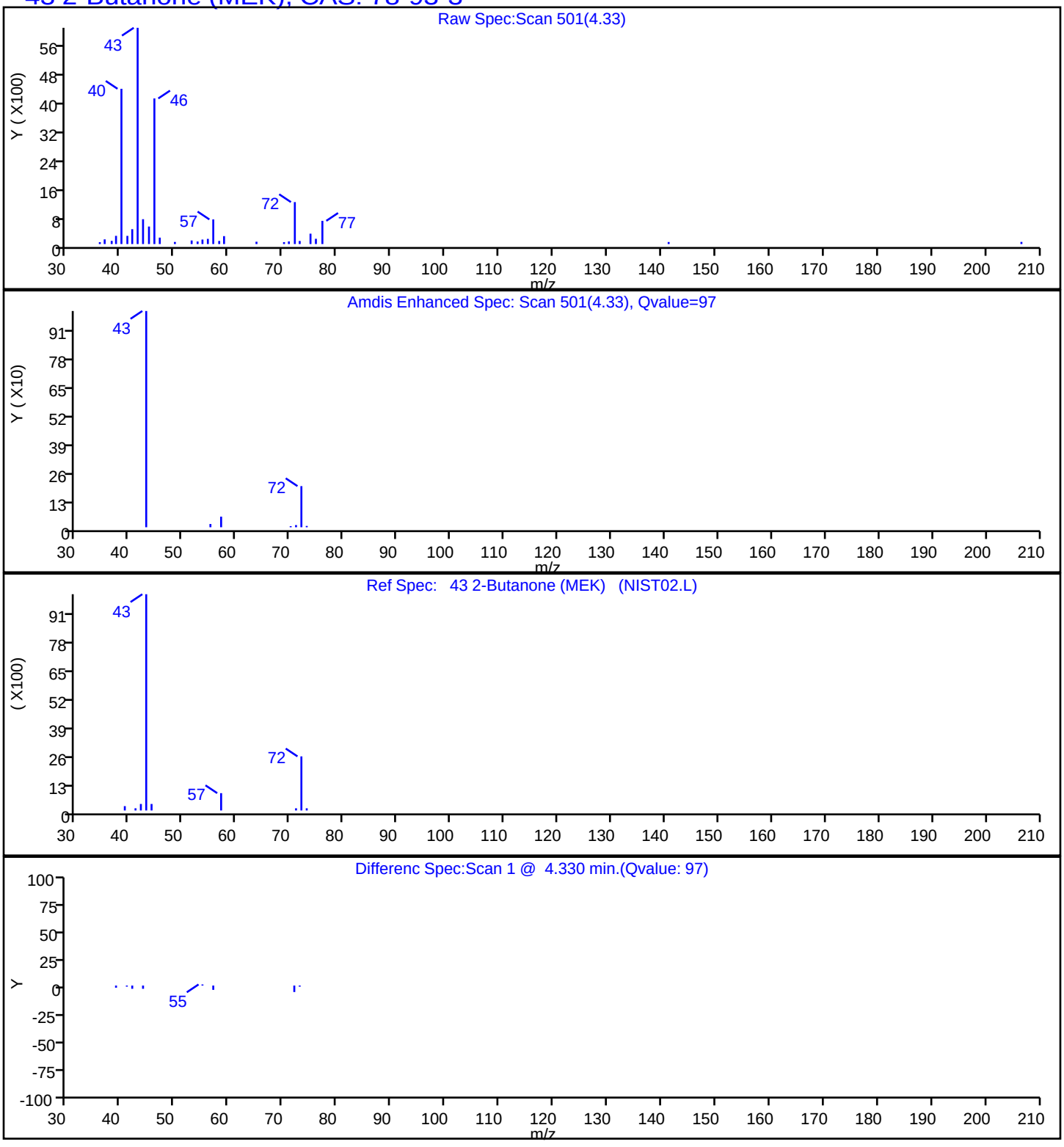
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3		
Client ID:	PDI-FB-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

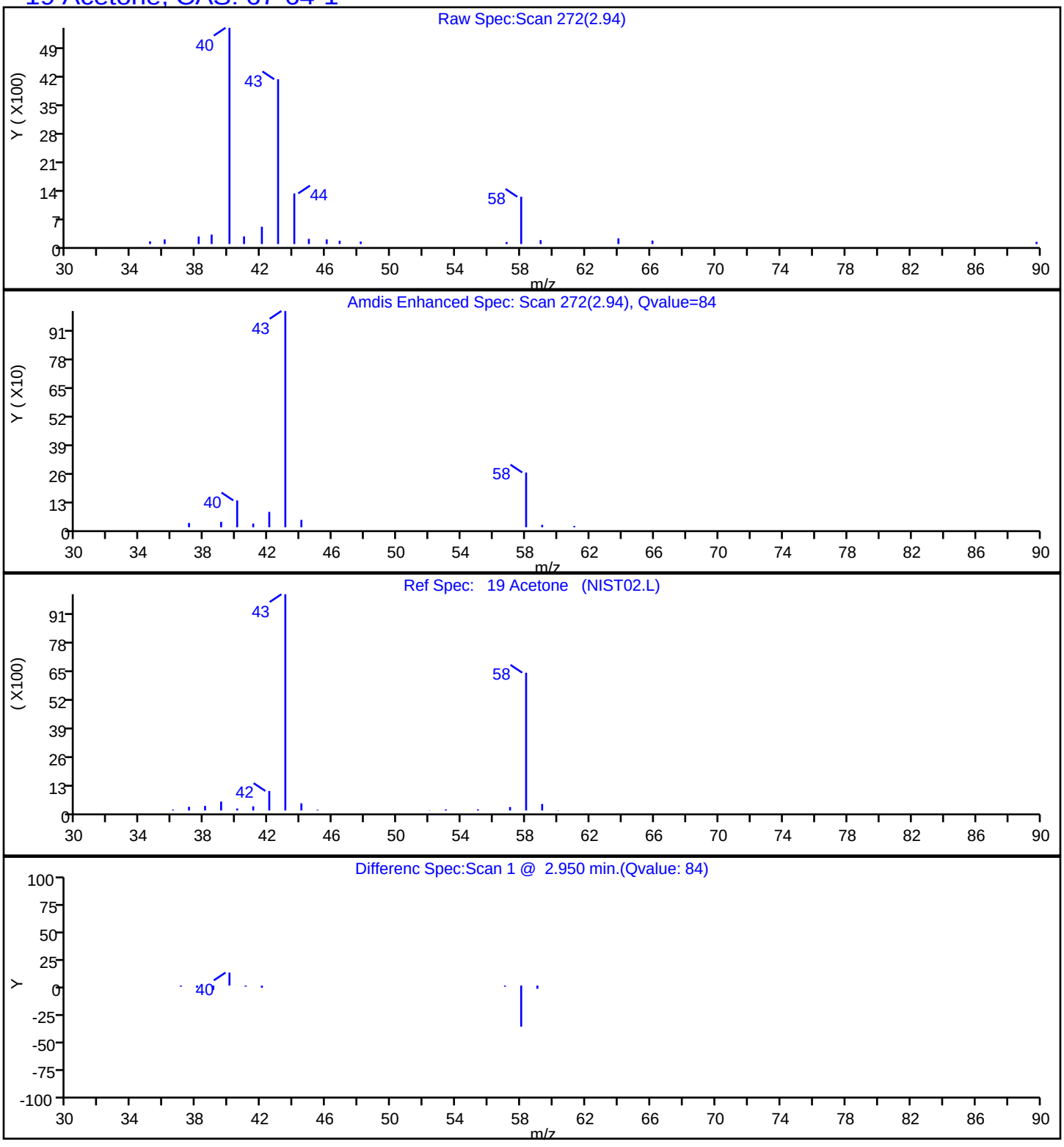
43 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3		
Client ID:	PDI-FB-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

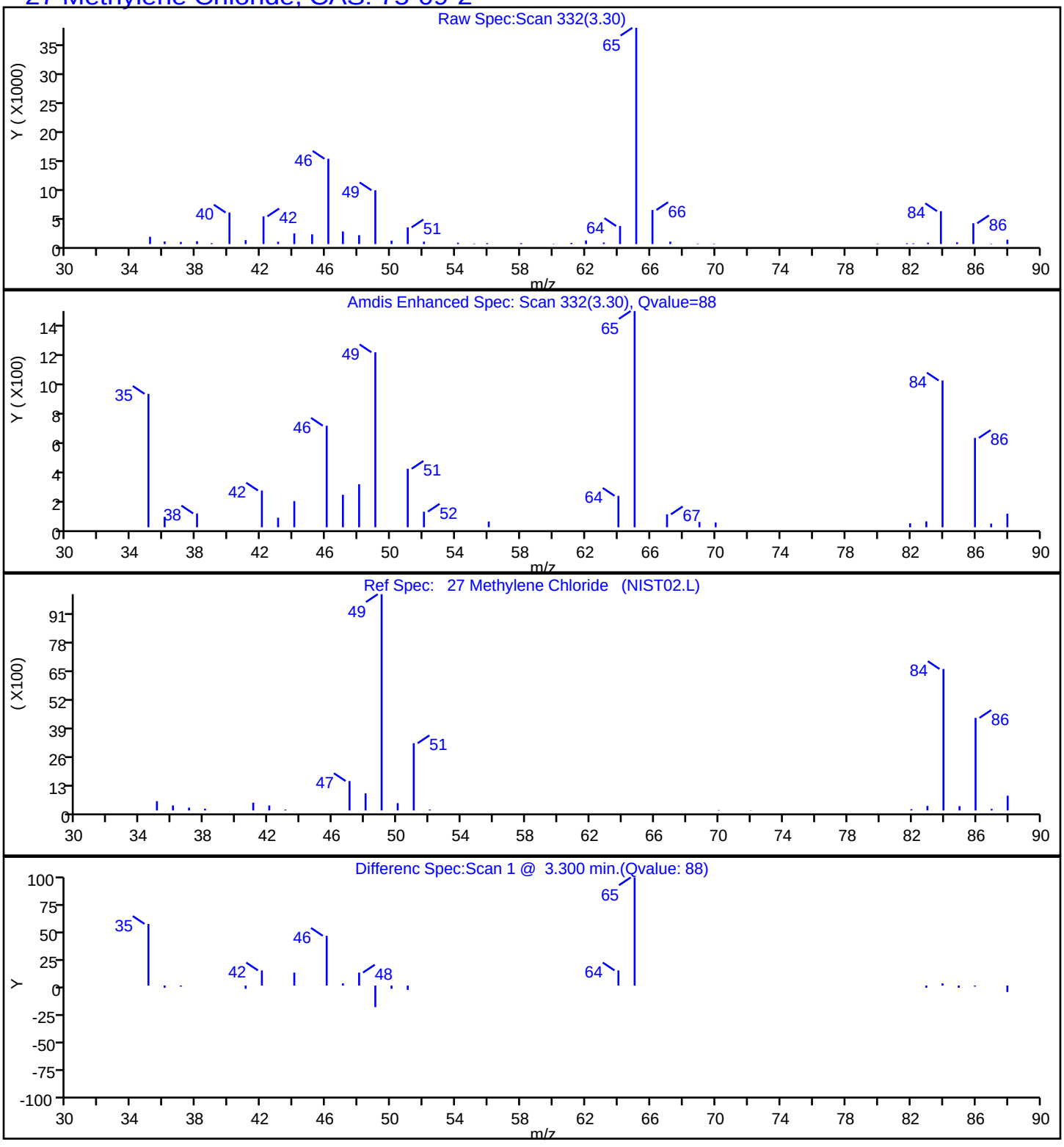
19 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3		
Client ID:	PDI-FB-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

27 Methylene Chloride, CAS: 75-09-2



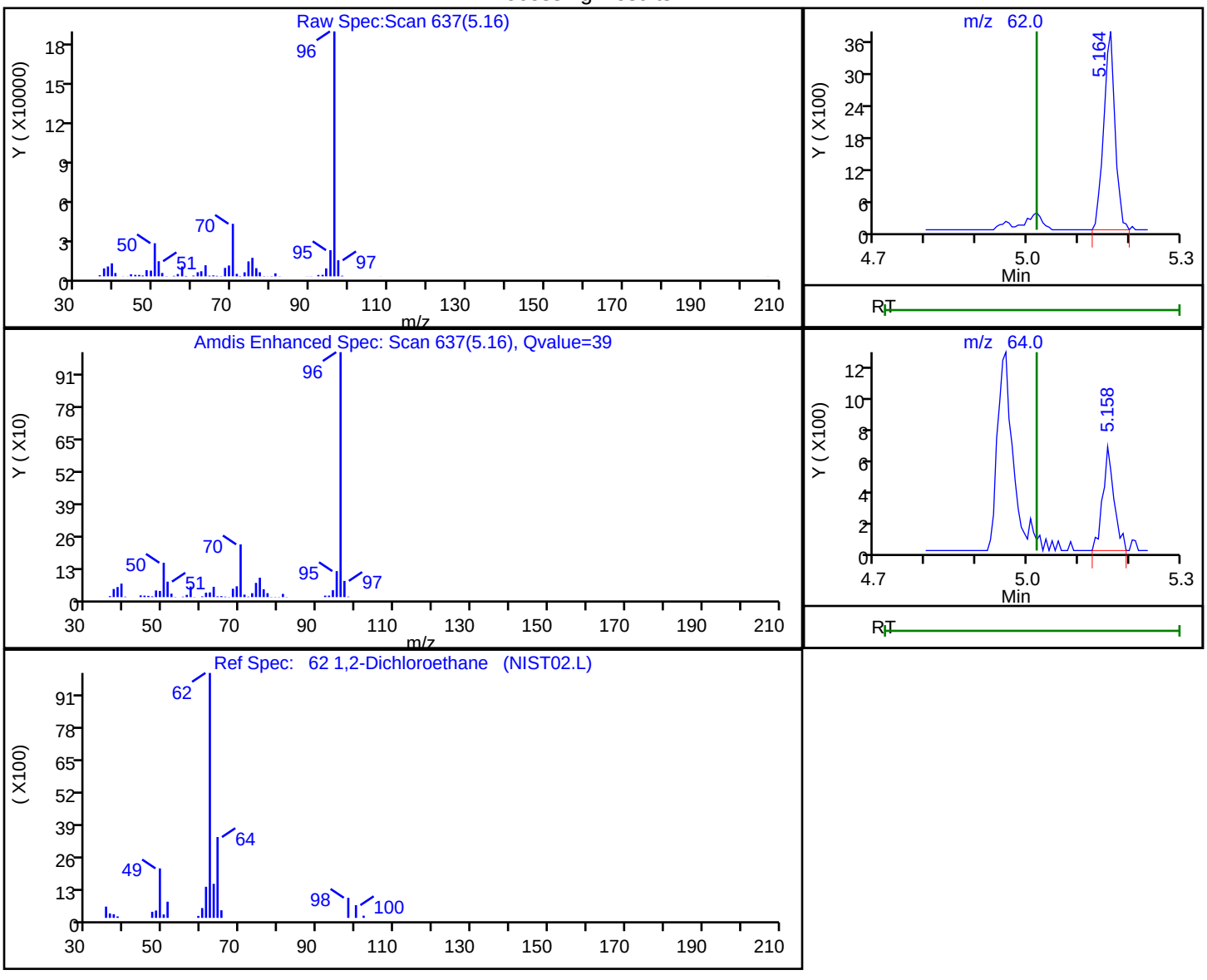
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3		
Client ID:	PDI-FB-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

62 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.16	62.00	5793	1.681862
5.16	64.00	966	

Reviewer: maheseep, 09-Jul-2018 15:13:55

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

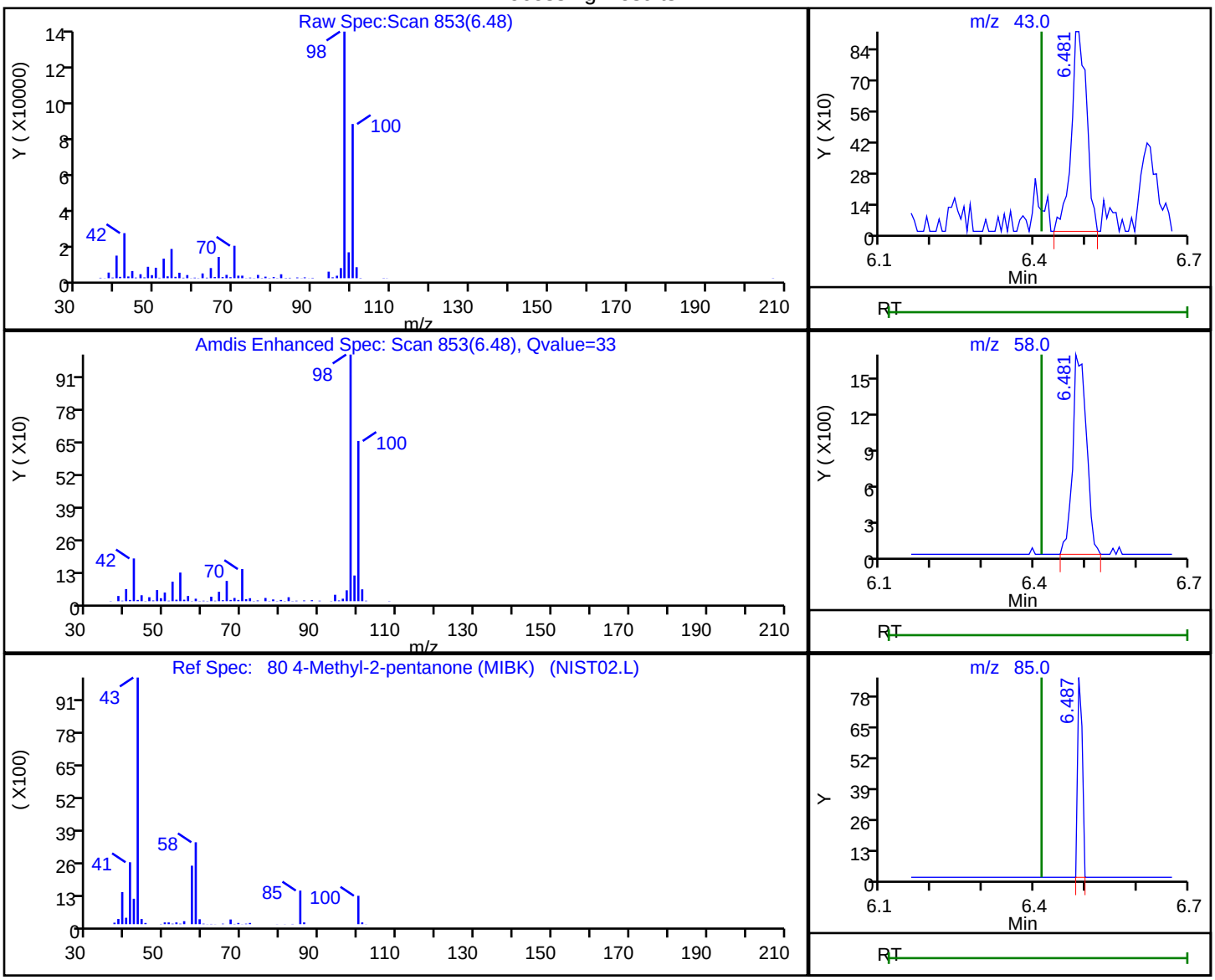
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D				
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3		
Client ID:	PDI-FB-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	23	Worklist Smp#:	24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

80 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
6.48	43.00	1917	0.657616
6.48	58.00	3132	
6.49	85.00	55	
6.49	100.00	187543	

Reviewer: maheseep, 09-Jul-2018 15:13:41

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

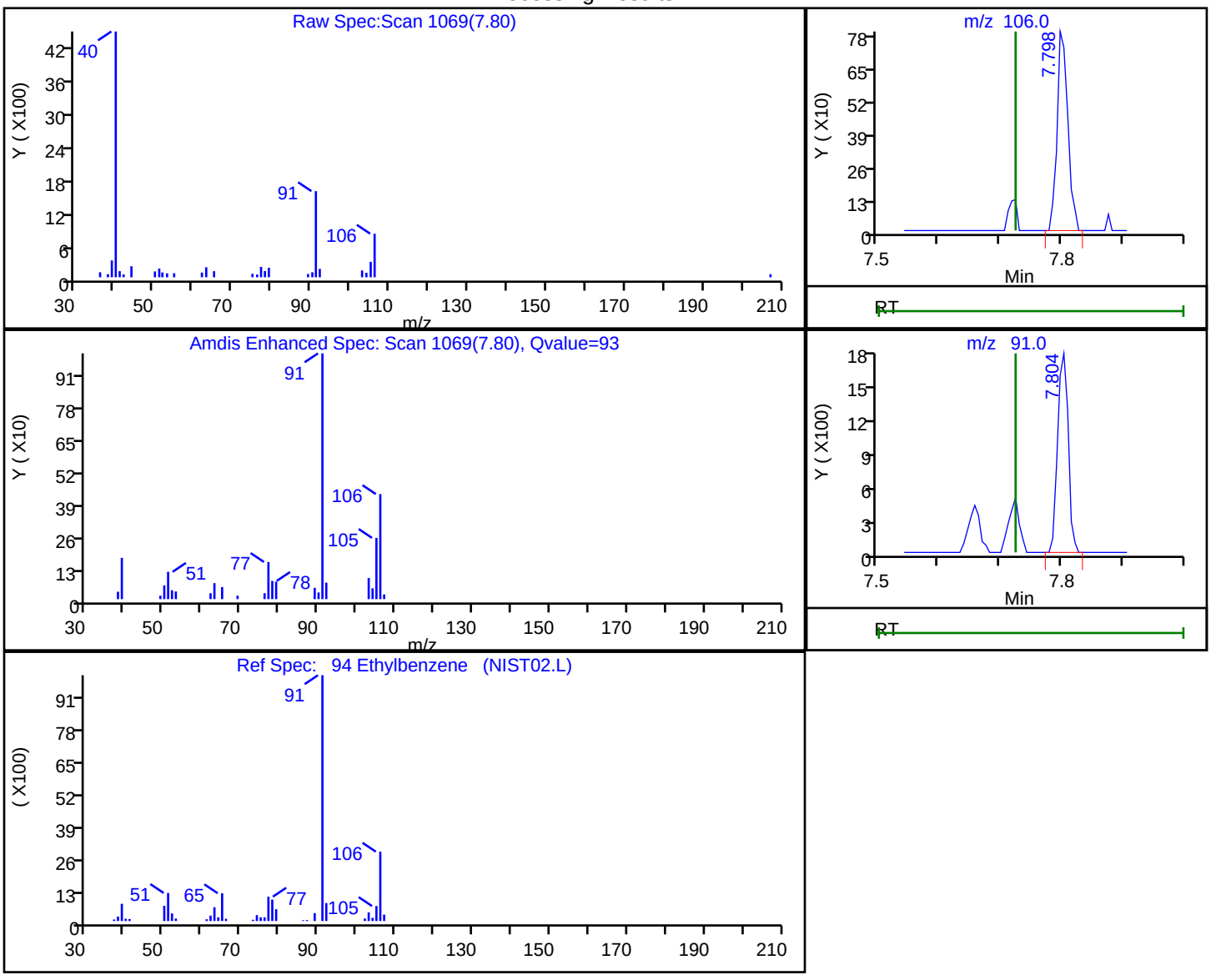
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58451.D		
Injection Date:	09-Jul-2018 02:56:30	Instrument ID:	CVOAMS1
Lims ID:	460-159550-A-3	Lab Sample ID:	460-159550-3
Client ID:	PDI-FB-06292018		
Operator ID:	VOA GC/MS1	ALS Bottle#:	23 Worklist Smp#: 24
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

94 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
7.80	106.00	979	0.335095
7.80	91.00	2149	

Reviewer: maheseep, 09-Jul-2018 15:13:58

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-20-WG-85-06292018 | Lab Sample ID: 460-159550-4

Matrix: Water | Lab File ID: A58453.D

Analysis Method: 8260C | Date Collected: 06/29/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 03:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND	*	1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	12		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	0.61	J	1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-20-WG-85-06292018 | Lab Sample ID: 460-159550-4

Matrix: Water | Lab File ID: A58453.D

Analysis Method: 8260C | Date Collected: 06/29/2018 12:00

Sample wt/vol: 5(mL) | Date Analyzed: 07/09/2018 03:42

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	0.29	J	1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	14		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	125		74-132
460-00-4	4-Bromofluorobenzene	98		77-124
2037-26-5	Toluene-d8 (Surr)	111		80-120
1868-53-7	Dibromofluoromethane (Surr)	109		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D
Lims ID: 460-159550-A-4
Client ID: PDI-20-WG-85-06292018
Sample Type: Client
Inject. Date: 09-Jul-2018 03:42:30 ALS Bottle#: 25 Worklist Smp#: 26
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-A-4
Misc. Info.: 460-0075082-026
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 15:55:44 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK020

First Level Reviewer: maheseep Date: 09-Jul-2018 15:24:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
19 Acetone	58	2.963	2.963	0.000	84	3239	12.1	
* 28 TBA-d9 (IS)	65	3.329	3.329	0.000	0	169400	1000.0	
* 39 2-Butanone-d5	46	4.292	4.292	0.000	0	264516	250.0	
41 cis-1,2-Dichloroethene	96	4.323	4.323	0.000	84	1548	0.6100	
$ 52 Dibromofluoromethane (Surr	113	4.682	4.682	0.000	94	92155	54.3	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	136913	62.4	
* 64 Fluorobenzene	96	5.164	5.164	0.000	97	290729	50.0	
66 Trichloroethene	95	5.426	5.426	0.000	96	30195	14.4	
* 71 1,4-Dioxane-d8	96	5.688	5.682	0.006	0	14979	1000.0	
$ 81 Toluene-d8 (Surr)	98	6.493	6.493	0.000	98	303792	55.5	
82 Toluene	91	6.554	6.554	0.000	88	2567	0.3209	
86 Tetrachloroethene	166	6.999	6.999	0.000	82	556	0.2896	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	92	191932	50.0	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	81	83943	48.8	
* 119 1,4-Dichlorobenzene-d4	152	9.053	9.072	-0.019	97	109582	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00178 Amount Added: 1.00 Units: uL Run Reagent

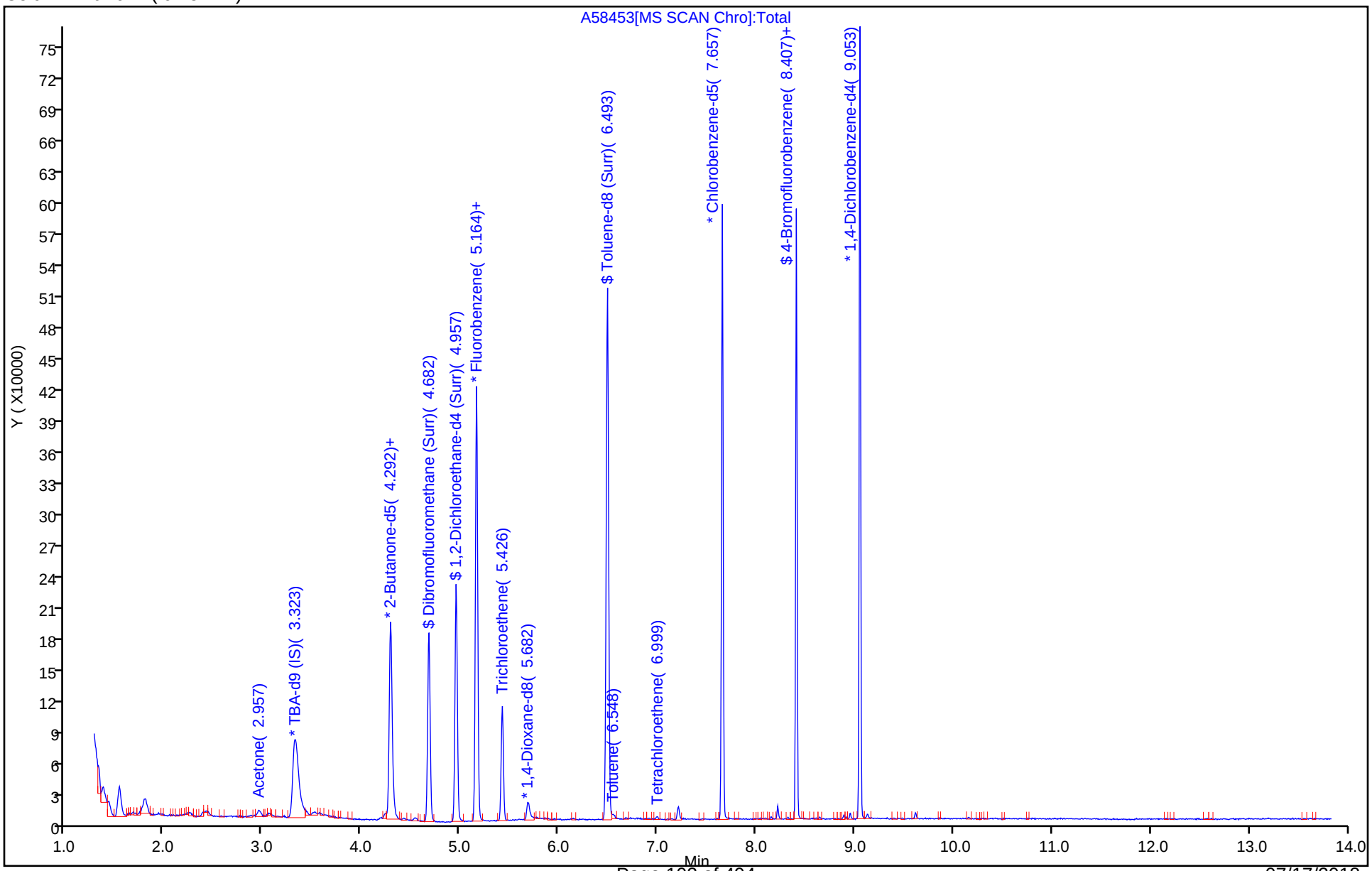
Report Date: 09-Jul-2018 15:56:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D

Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4	Worklist Smp#:	26
Client ID:	PDI-20-WG-85-06292018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	25
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

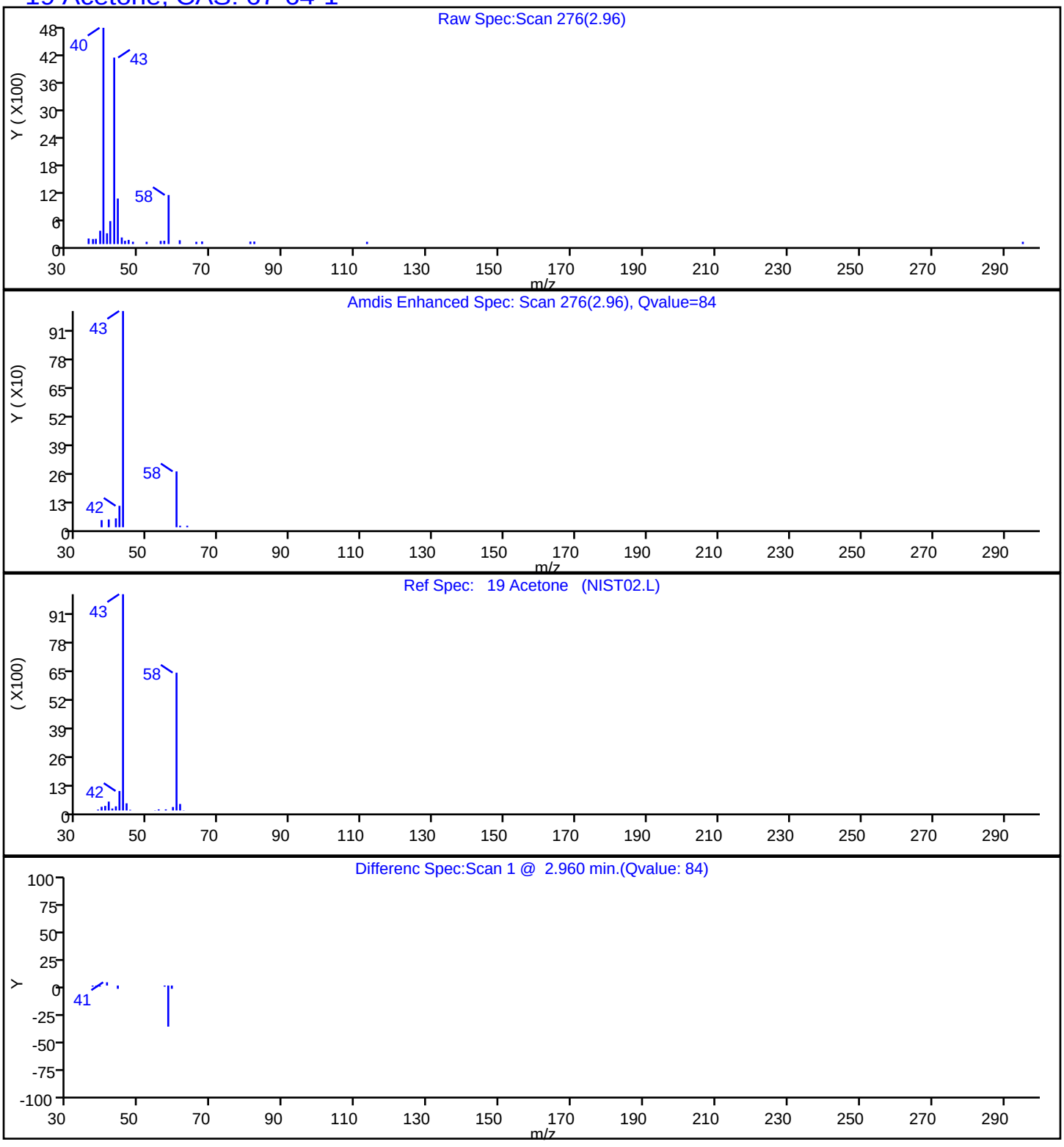
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D				
Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

19 Acetone, CAS: 67-64-1



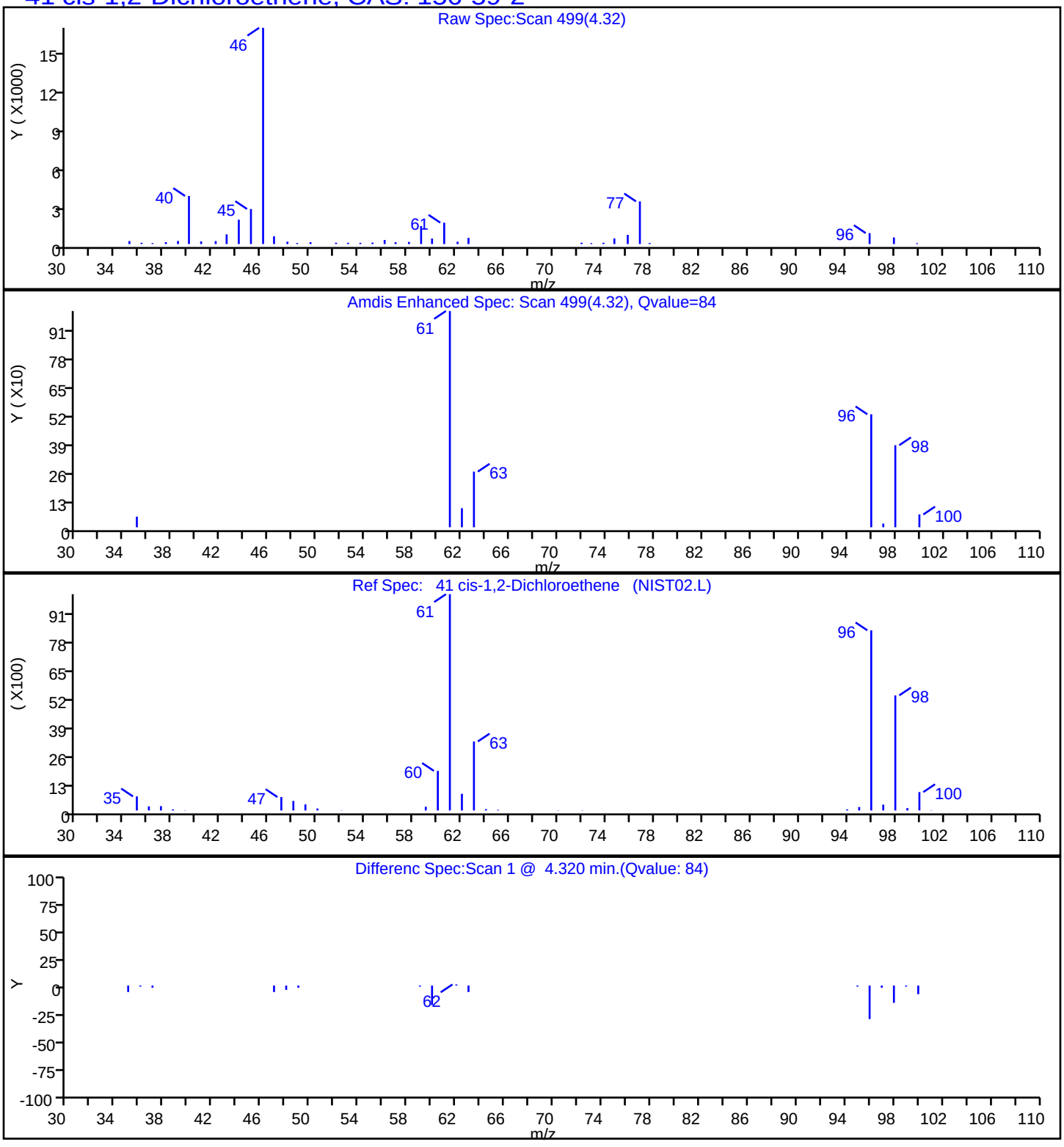
Report Date: 09-Jul-2018 15:56:18 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D

Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

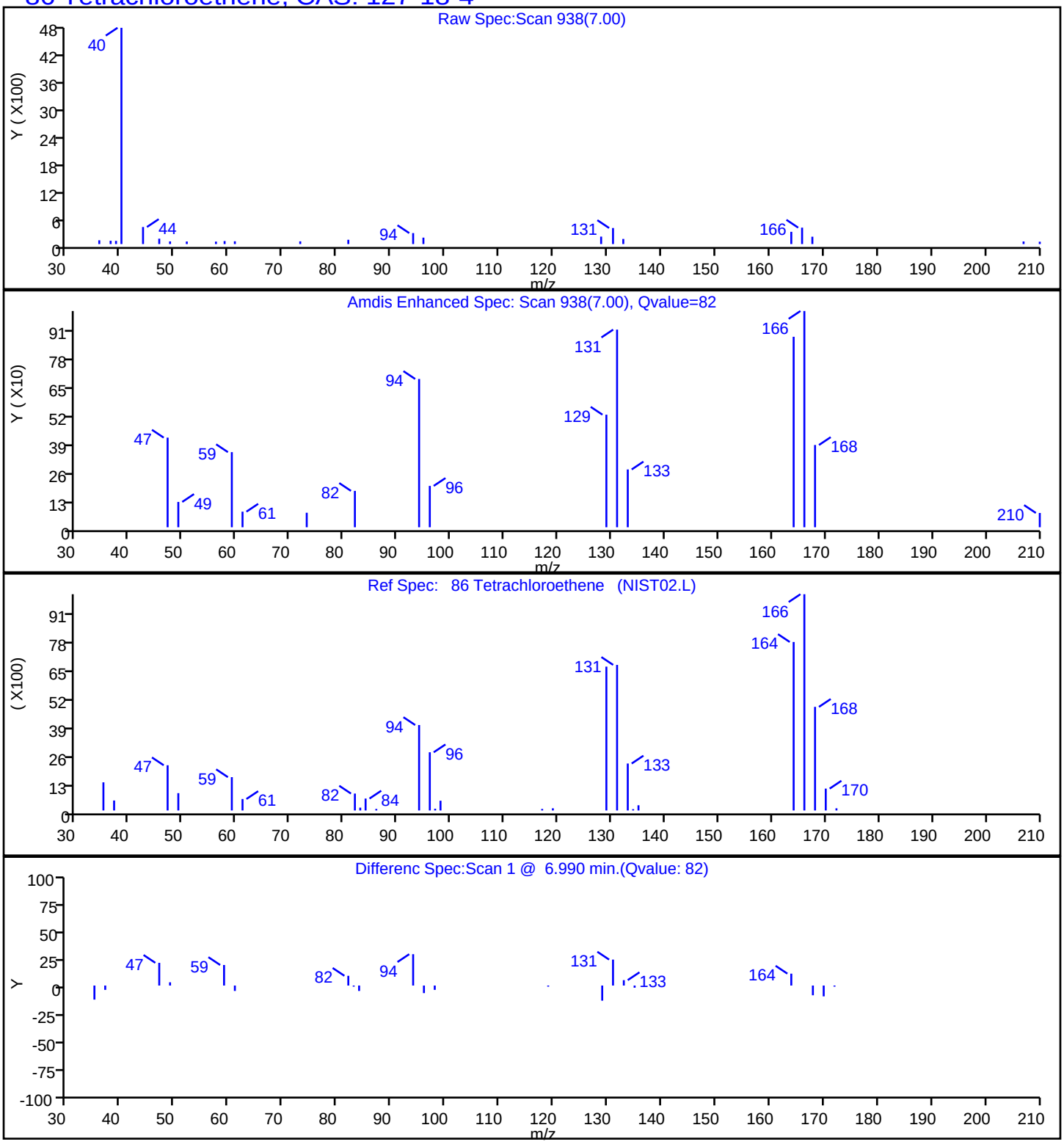
41 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D				
Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

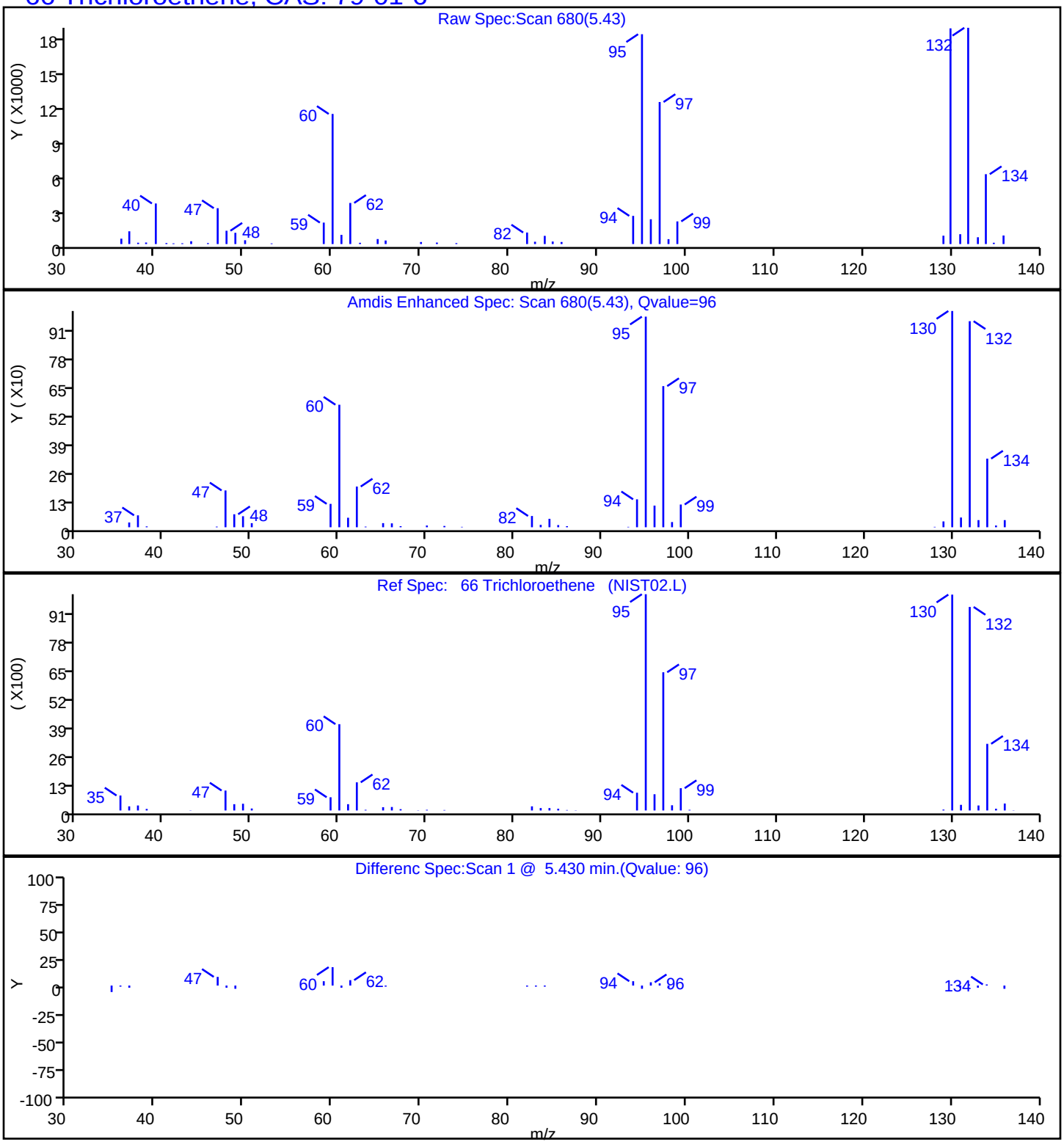
86 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D				
Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

66 Trichloroethene, CAS: 79-01-6



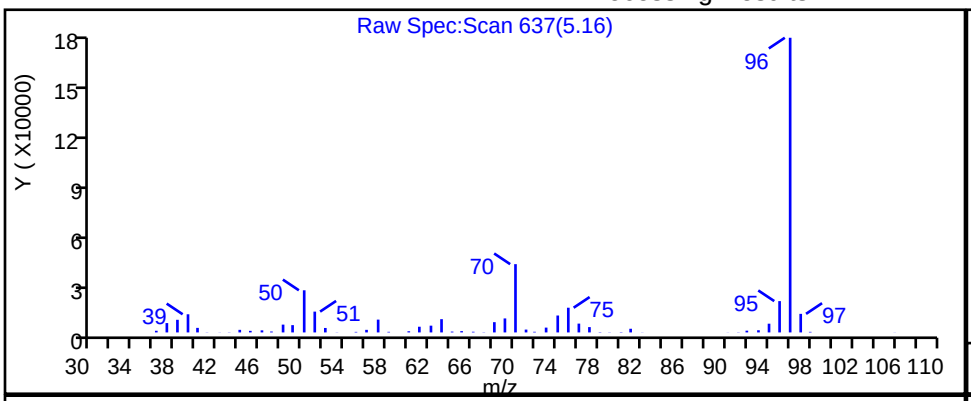
User Disabled Compound Report

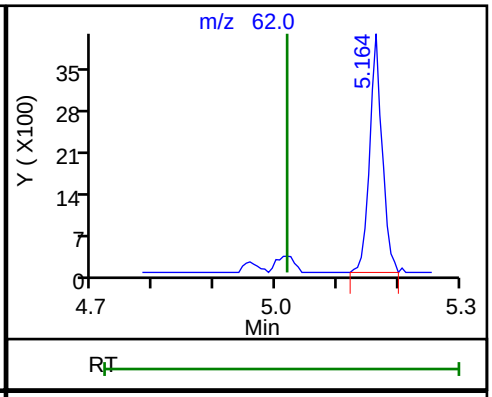
TestAmerica Edison

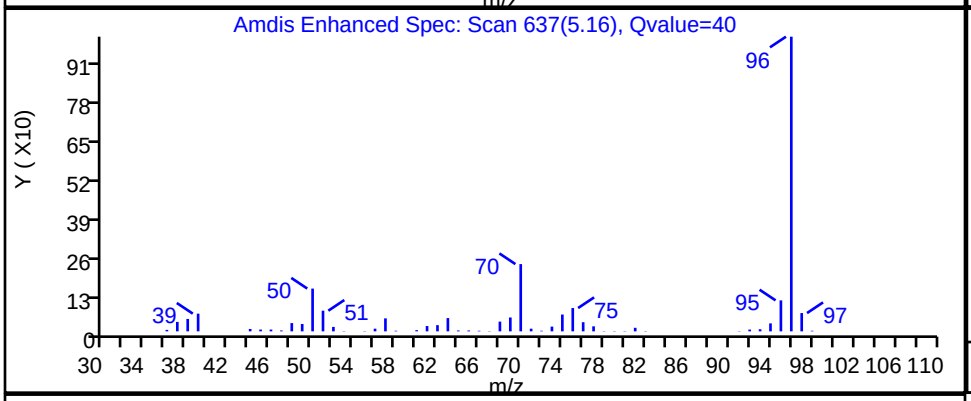
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D				
Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

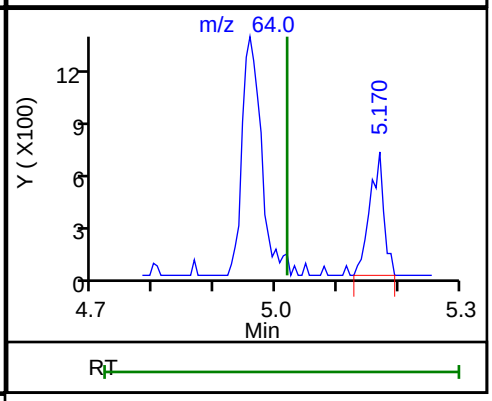
62 1,2-Dichloroethane, CAS: 107-06-2

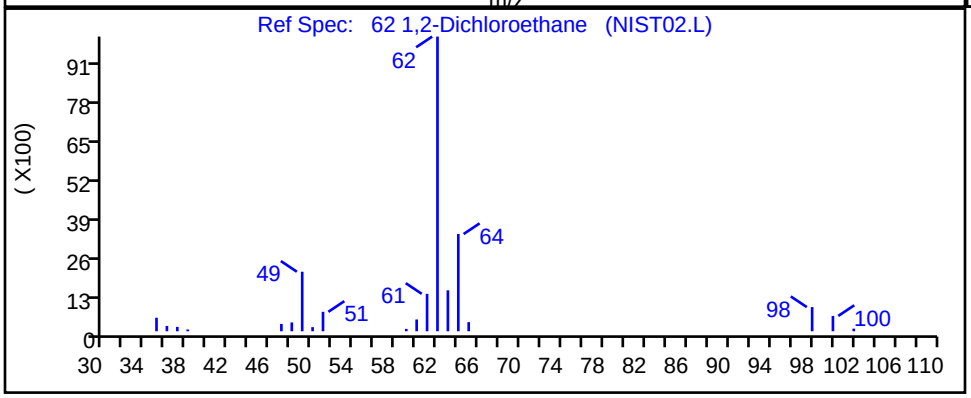
Processing Results











RT	Mass	Response	Amount
5.16	62.00	5761	1.774158
5.17	64.00	1126	

Reviewer: maheseep, 09-Jul-2018 15:15:35

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

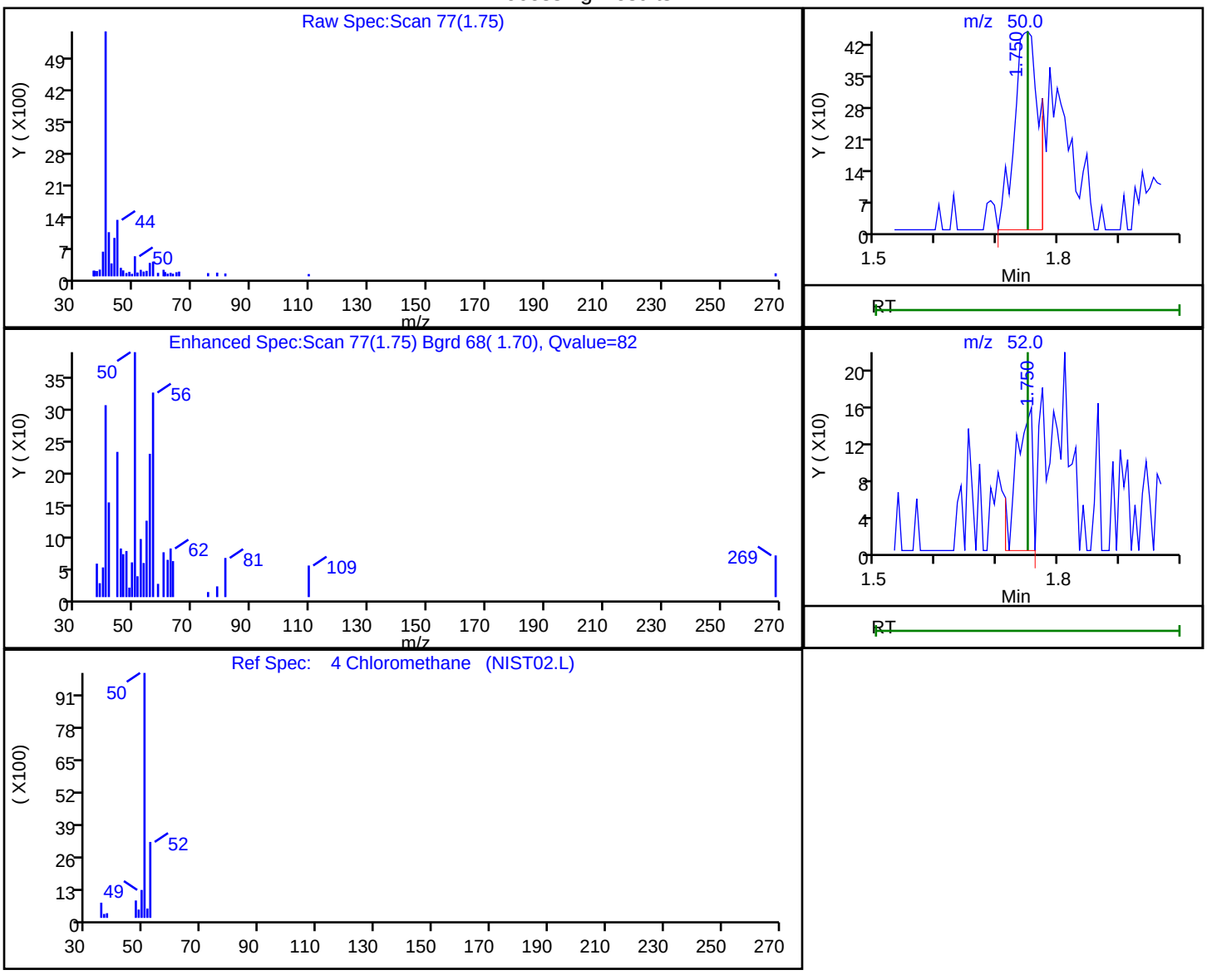
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58453.D				
Injection Date:	09-Jul-2018 03:42:30	Instrument ID:	CVOAMS1		
Lims ID:	460-159550-A-4	Lab Sample ID:	460-159550-4		
Client ID:	PDI-20-WG-85-06292018				
Operator ID:	VOA GC/MS1	ALS Bottle#:	25	Worklist Smp#:	26
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.75	50.00	1210	0.324647
1.75	52.00	286	

Reviewer: maheseep, 09-Jul-2018 15:15:29

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-18-SO-21-06282018 | Lab Sample ID: 460-159550-5

Matrix: Solid | Lab File ID: K86426.D

Analysis Method: 8260C | Date Collected: 06/28/2018 09:35

Sample wt/vol: 7.089(g) | Date Analyzed: 07/11/2018 13:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.0 | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.90	0.21
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.90	0.19
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.90	0.27
79-00-5	1,1,2-Trichloroethane	ND		0.90	0.16
75-34-3	1,1-Dichloroethane	ND		0.90	0.19
75-35-4	1,1-Dichloroethene	ND		0.90	0.20
120-82-1	1,2,4-Trichlorobenzene	ND		0.90	0.083
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.90	0.42
95-50-1	1,2-Dichlorobenzene	1.4		0.90	0.13
107-06-2	1,2-Dichloroethane	ND		0.90	0.27
78-87-5	1,2-Dichloropropane	ND		0.90	0.38
541-73-1	1,3-Dichlorobenzene	ND		0.90	0.14
106-46-7	1,4-Dichlorobenzene	ND		0.90	0.090
78-93-3	2-Butanone (MEK)	4.0	J	4.5	1.0
591-78-6	2-Hexanone	ND		4.5	0.70
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.5	0.60
67-64-1	Acetone	26	B	4.5	3.4
71-43-2	Benzene	ND		0.90	0.23
75-25-2	Bromoform	ND		0.90	0.38
74-83-9	Bromomethane	ND		0.90	0.43
75-15-0	Carbon disulfide	ND		0.90	0.24
56-23-5	Carbon tetrachloride	ND		0.90	0.16
108-90-7	Chlorobenzene	ND		0.90	0.16
124-48-1	Dibromochloromethane	ND		0.90	0.18
75-00-3	Chloroethane	ND		0.90	0.47
67-66-3	Chloroform	ND		0.90	0.29
74-87-3	Chloromethane	ND		0.90	0.39
156-59-2	cis-1,2-Dichloroethene	1.7		0.90	0.14
110-82-7	Cyclohexane	ND		0.90	0.20
75-27-4	Bromodichloromethane	ND		0.90	0.23
75-71-8	Dichlorodifluoromethane	ND		0.90	0.31
100-41-4	Ethylbenzene	ND		0.90	0.18
106-93-4	1,2-Dibromoethane	ND		0.90	0.16
98-82-8	Isopropylbenzene	0.16	J	0.90	0.11
79-20-9	Methyl acetate	ND		4.5	3.9

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-18-SO-21-06282018 | Lab Sample ID: 460-159550-5

Matrix: Solid | Lab File ID: K86426.D

Analysis Method: 8260C | Date Collected: 06/28/2018 09:35

Sample wt/vol: 7.089(g) | Date Analyzed: 07/11/2018 13:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 22.0 | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.90	0.11
108-87-2	Methylcyclohexane	0.36	J	0.90	0.14
75-09-2	Methylene Chloride	0.81	J B	0.90	0.15
127-18-4	Tetrachloroethene	27		0.90	0.13
108-88-3	Toluene	ND		0.90	0.56
156-60-5	trans-1,2-Dichloroethene	ND		0.90	0.22
10061-02-6	trans-1,3-Dichloropropene	ND		0.90	0.24
79-01-6	Trichloroethene	17		0.90	0.13
75-69-4	Trichlorofluoromethane	ND		0.90	0.37
75-01-4	Vinyl chloride	ND		0.90	0.49
1330-20-7	Xylenes, Total	0.55	J	1.8	0.23
10061-01-5	cis-1,3-Dichloropropene	ND		0.90	0.25
100-42-5	Styrene	ND		0.90	0.11

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		78-135
460-00-4	4-Bromofluorobenzene	99		67-126
2037-26-5	Toluene-d8 (Surr)	106		73-121
1868-53-7	Dibromofluoromethane (Surr)	106		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D
Lims ID: 460-159550-B-5-A
Client ID: PDI-18-SO-21-06282018
Sample Type: Client
Inject. Date: 11-Jul-2018 13:14:30 ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-B-5-A
Misc. Info.: 460-0075237-016
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 15-Jul-2018 19:22:35 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: xuyvo Date: 15-Jul-2018 19:23:37

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	3.010	2.998	0.012	86	48169	28.8	
26 Methylene Chloride	84	3.376	3.370	0.006	33	4439	0.8977	
* 25 TBA-d9 (IS)	65	3.364	3.370	-0.006	0	627139	1000.0	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	408857	250.0	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	92	10719	1.90	
42 2-Butanone (MEK)	72	4.498	4.516	-0.018	71	3391	4.46	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	246577	52.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	226943	52.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	676842	50.0	
63 Trichloroethene	95	5.930	5.931	-0.001	95	92601	19.3	
65 Methylcyclohexane	83	6.065	6.059	0.006	90	3178	0.4024	M
* 67 1,4-Dioxane-d8	96	6.272	6.266	0.006	0	50251	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	796696	52.8	
83 Tetrachloroethene	166	7.948	7.948	0.000	97	185251	29.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	567599	50.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	2642	0.2973	
95 o-Xylene	106	9.802	9.802	0.000	96	2952	0.3164	M
99 Isopropylbenzene	105	10.192	10.186	0.006	92	4406	0.1820	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	302909	49.7	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	-0.001	93	356692	50.0	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	20459	1.53	
S 131 Xylenes, Total	100				0		0.6136	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

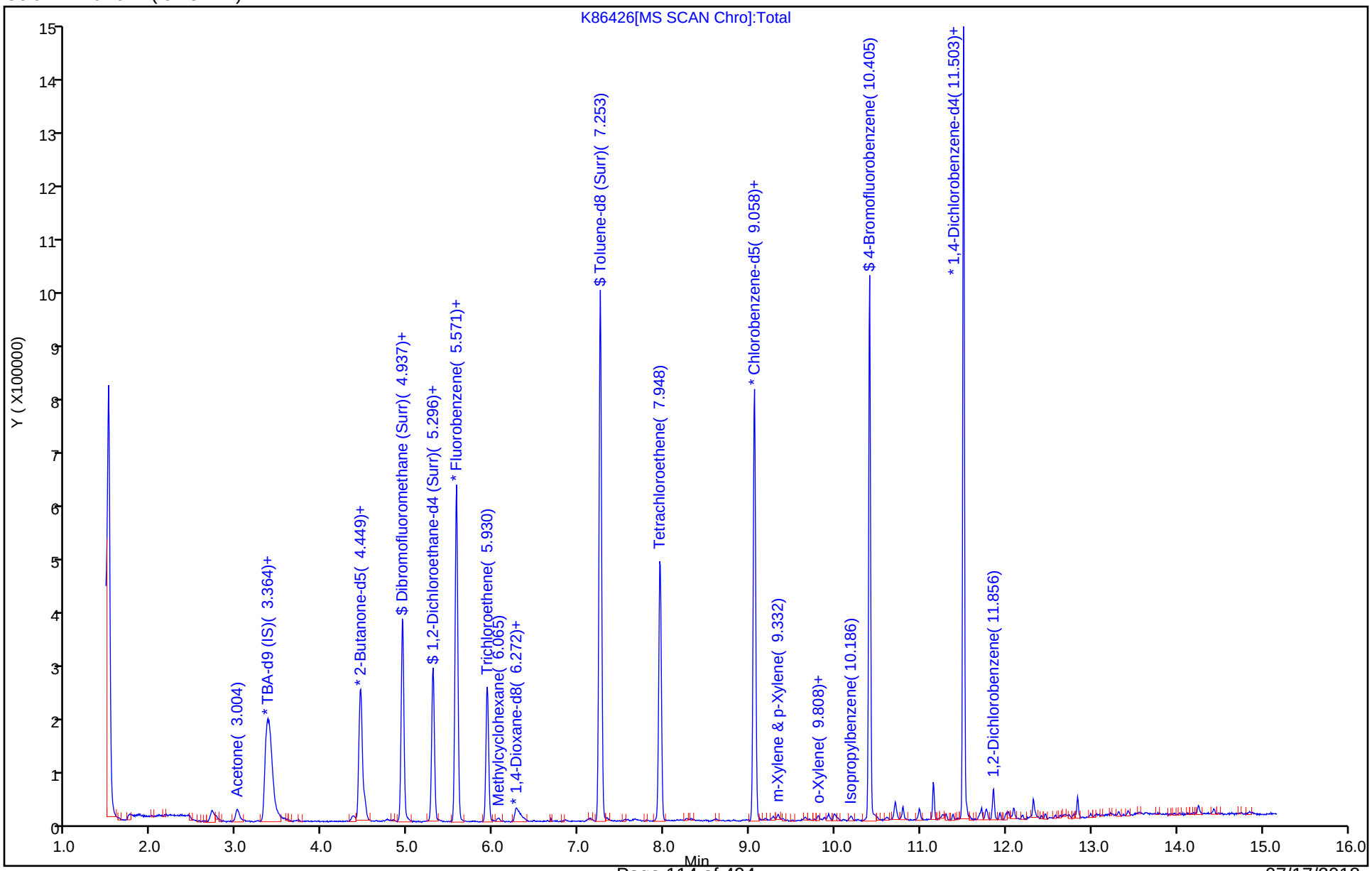
Report Date: 15-Jul-2018 19:23:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D

Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5	Worklist Smp#:	16
Client ID:	PDI-18-SO-21-06282018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	15
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

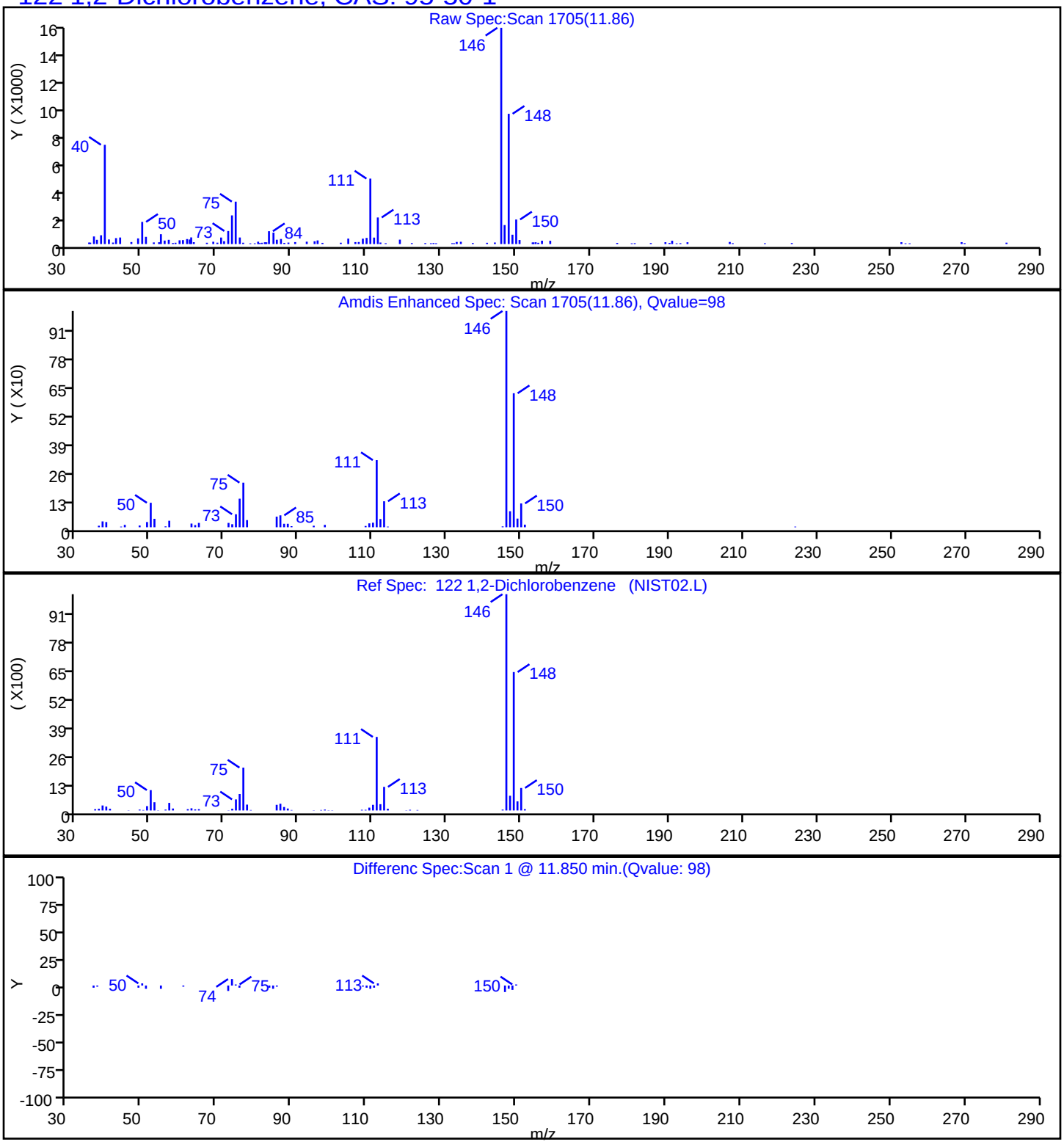
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

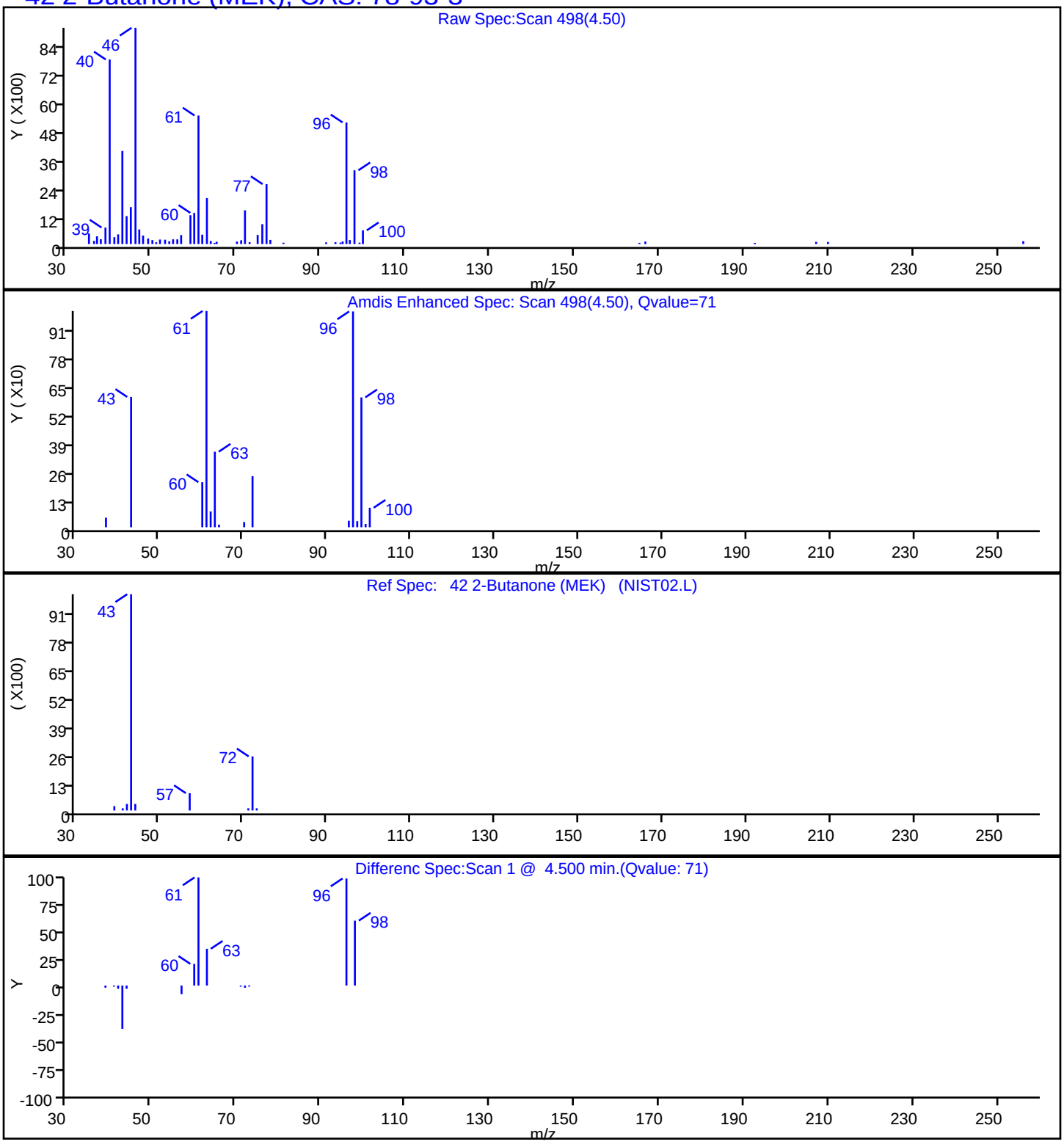
122 1,2-Dichlorobenzene, CAS: 95-50-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

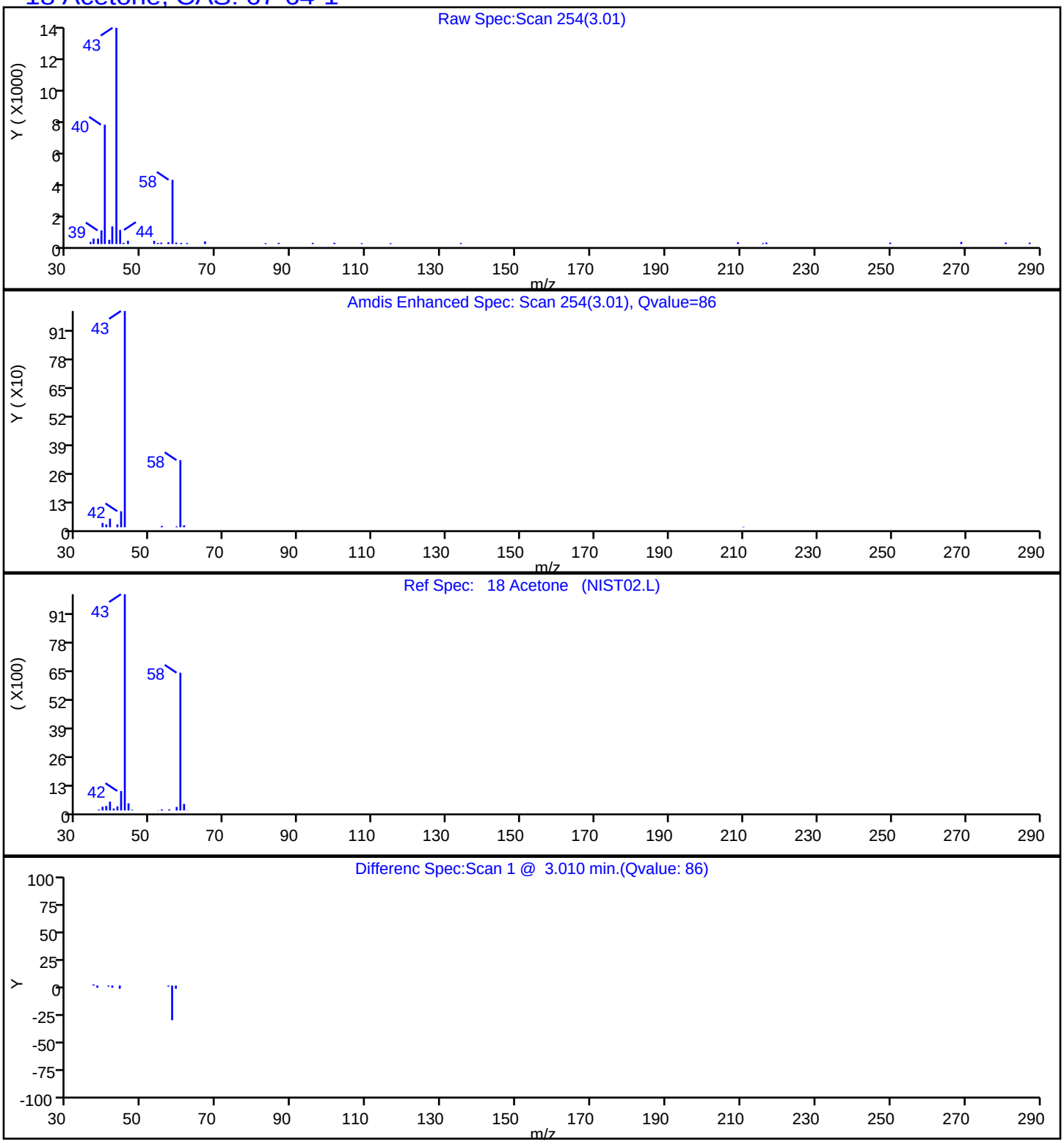
42 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

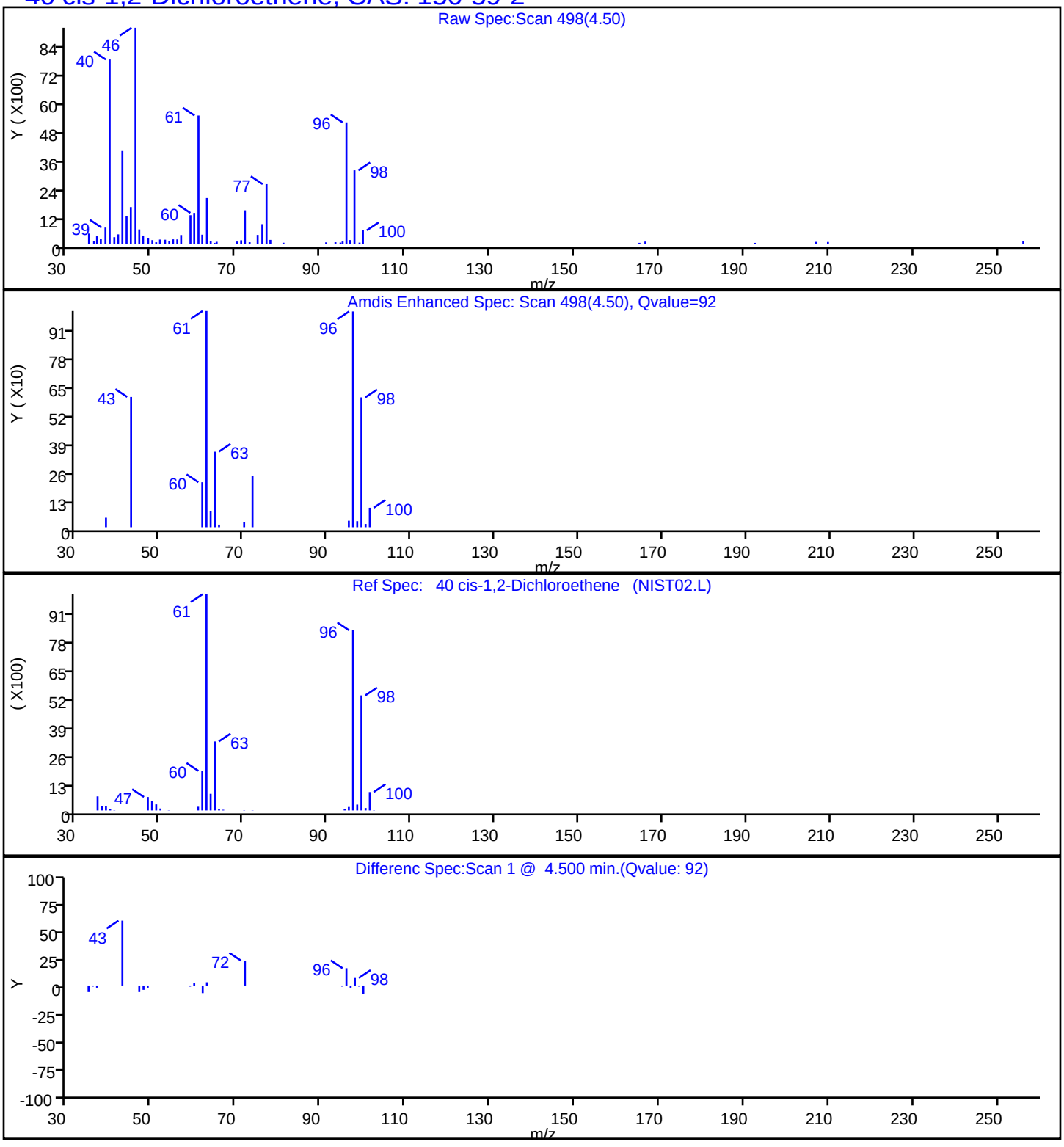
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D
Injection Date: 11-Jul-2018 13:14:30 Instrument ID: CVOAMS9
Lims ID: 460-159550-B-5-A Lab Sample ID: 460-159550-5
Client ID: PDI-18-SO-21-06282018
Operator ID: ALS Bottle#: 15 Worklist Smp#: 16
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

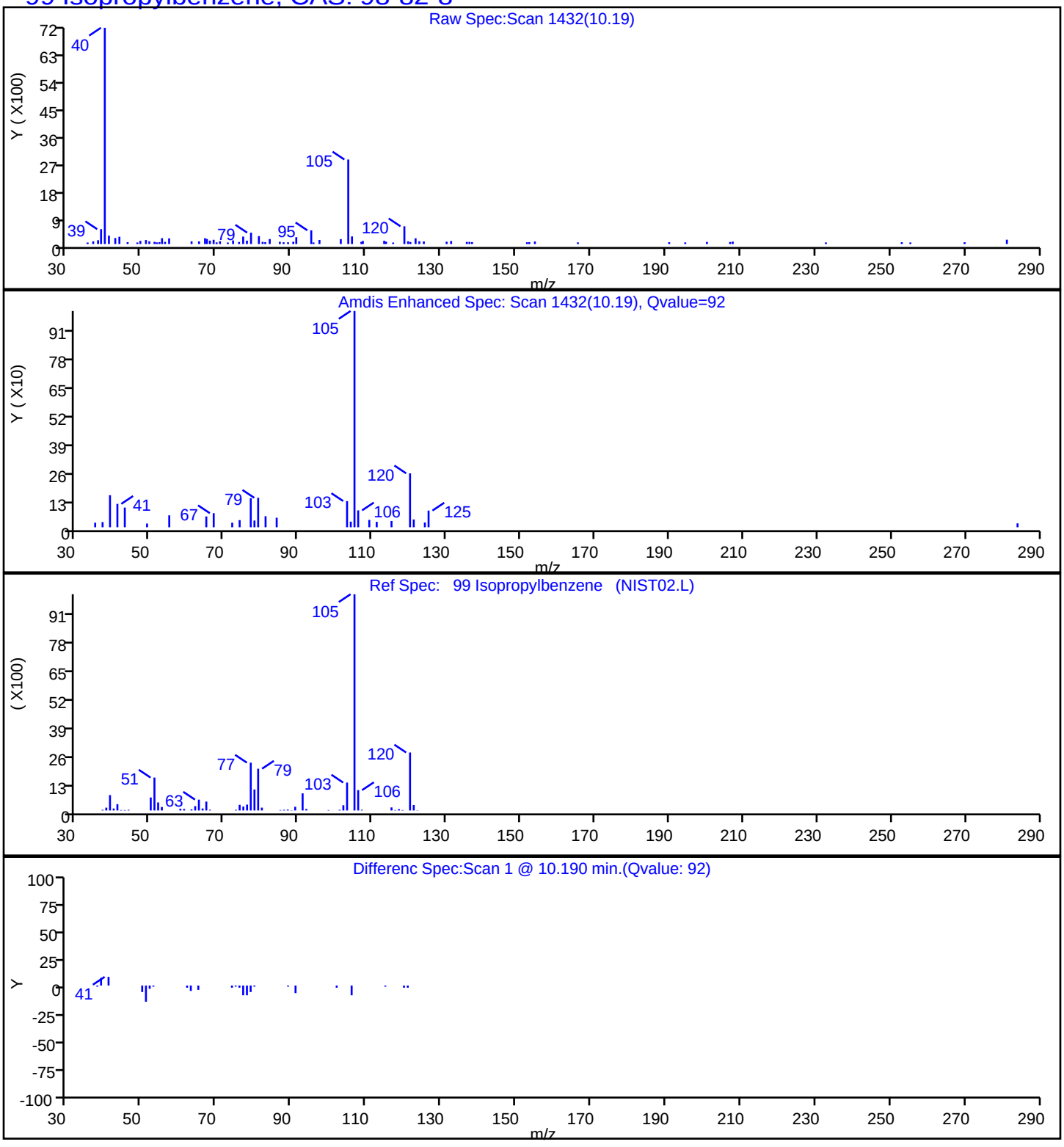
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D				
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5		
Client ID:	PDI-18-SO-21-06282018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

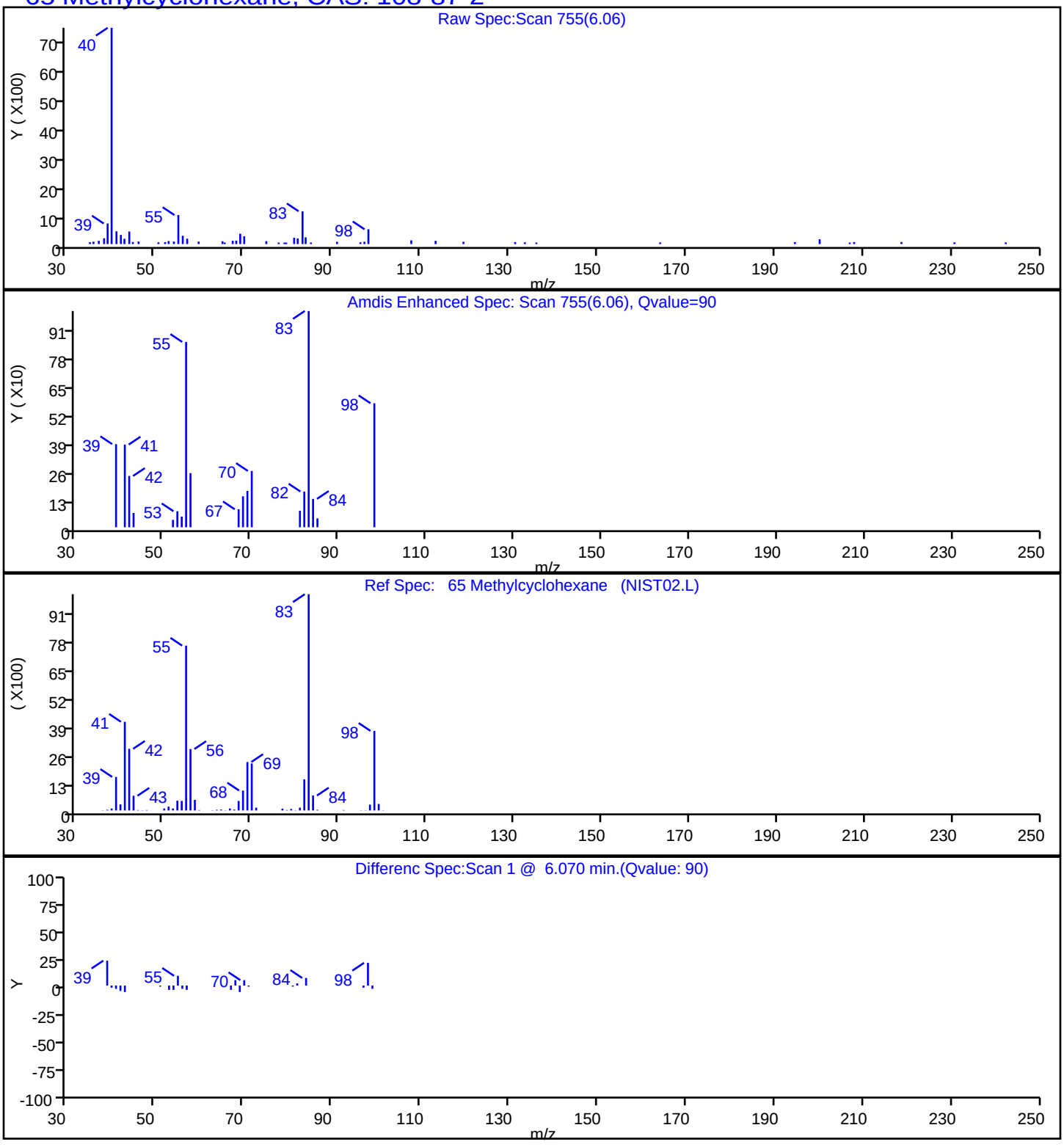
99 Isopropylbenzene, CAS: 98-82-8



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

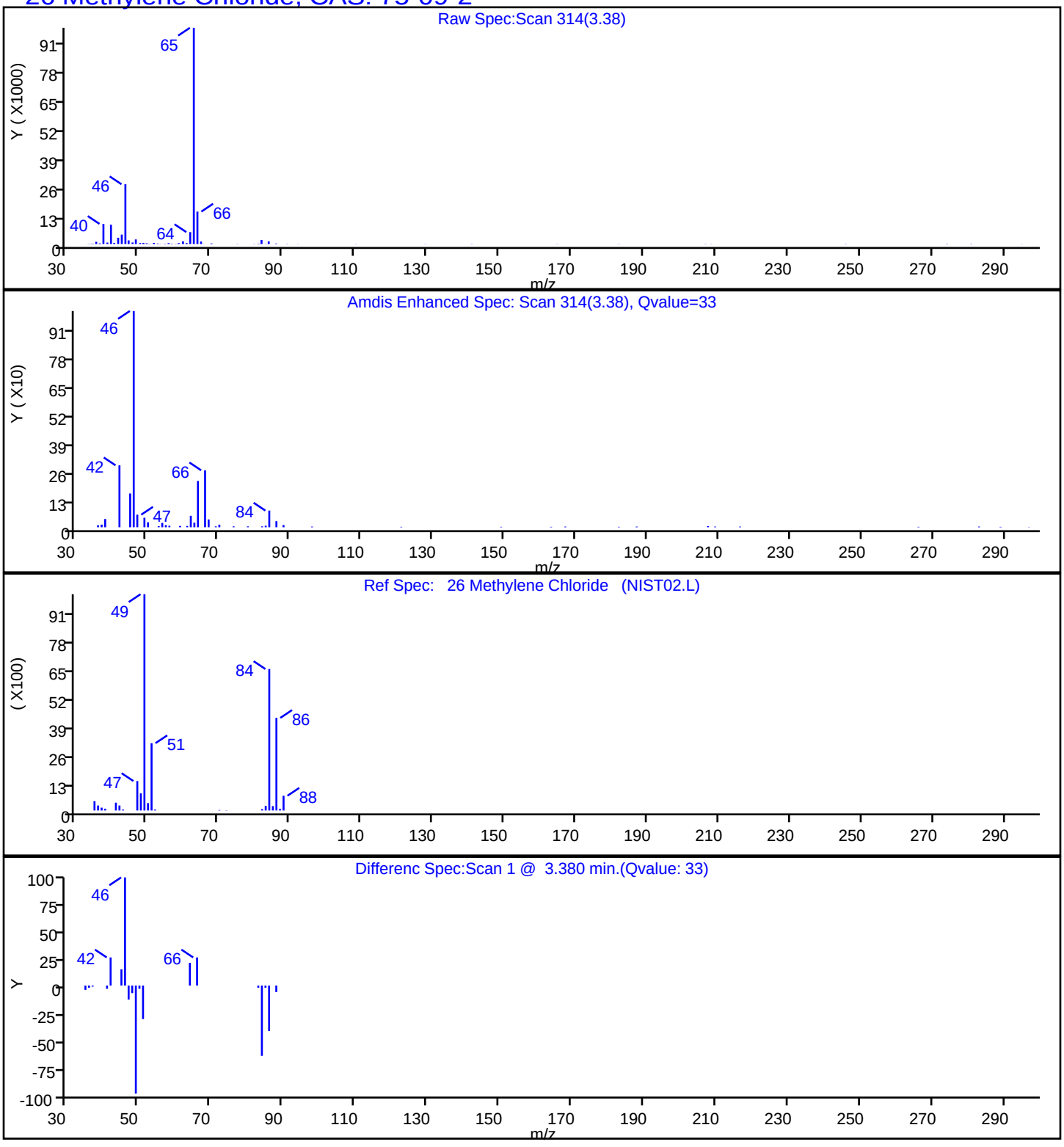
65 Methylcyclohexane, CAS: 108-87-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

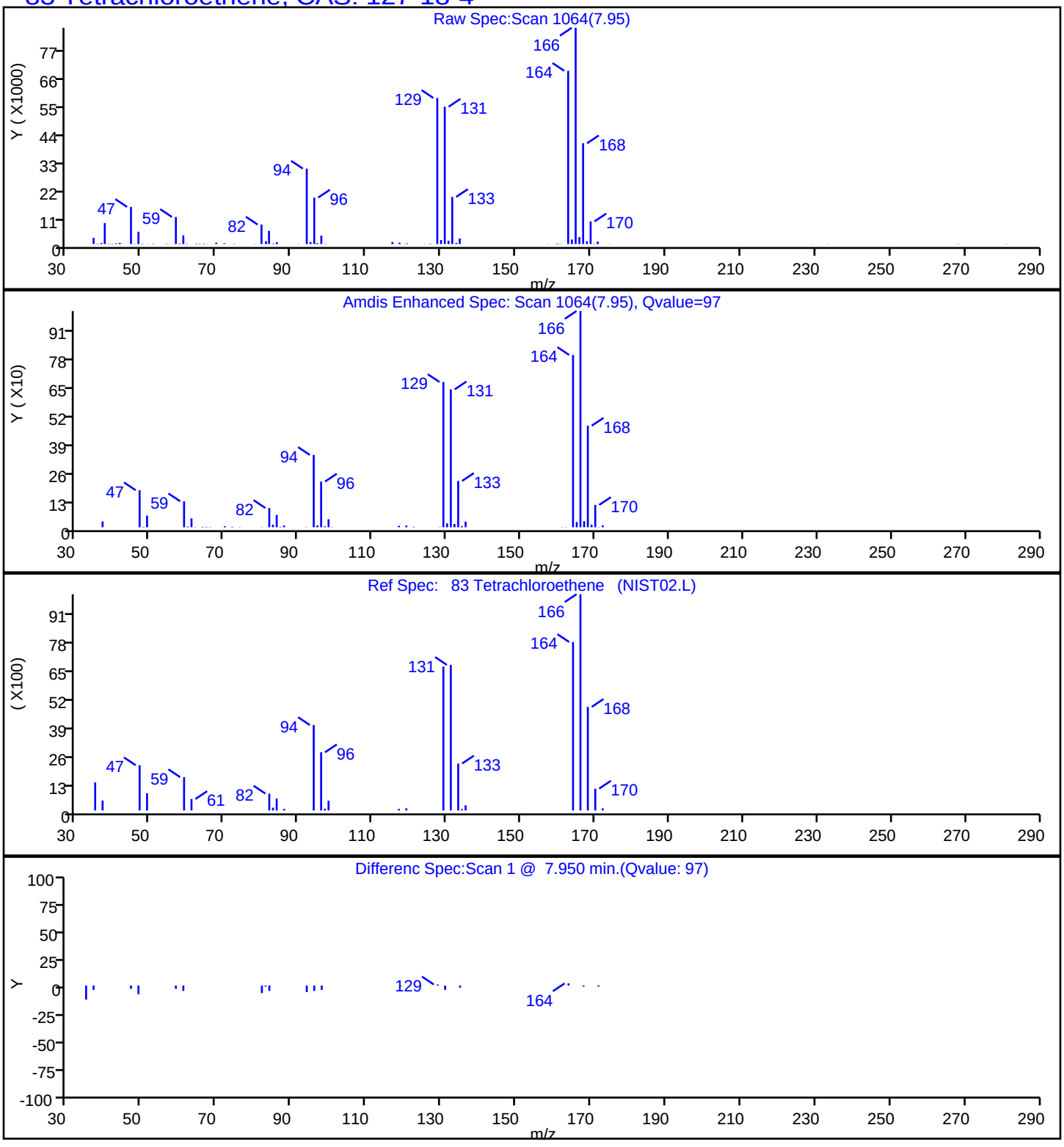
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

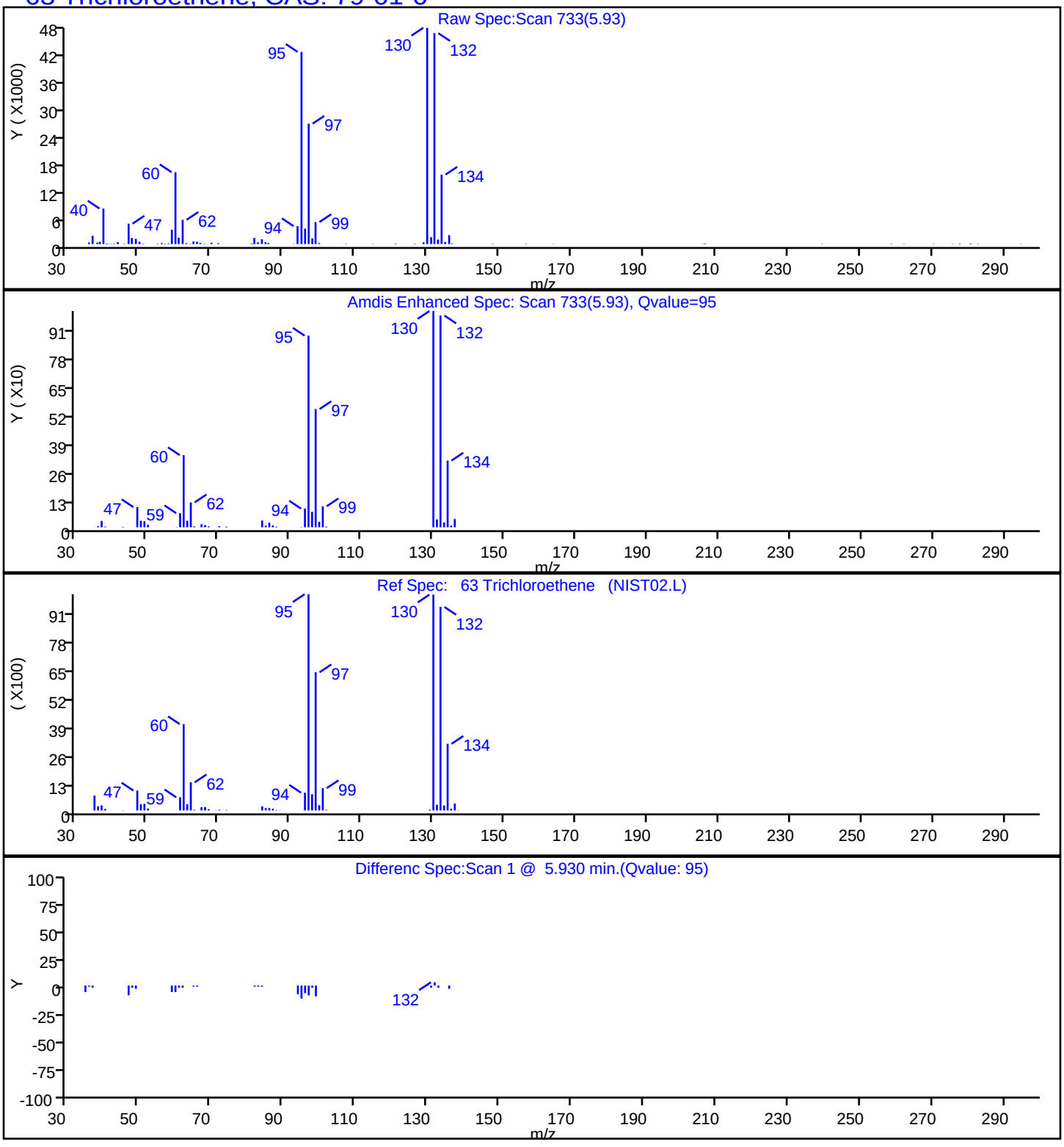
83 Tetrachloroethene, CAS: 127-18-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

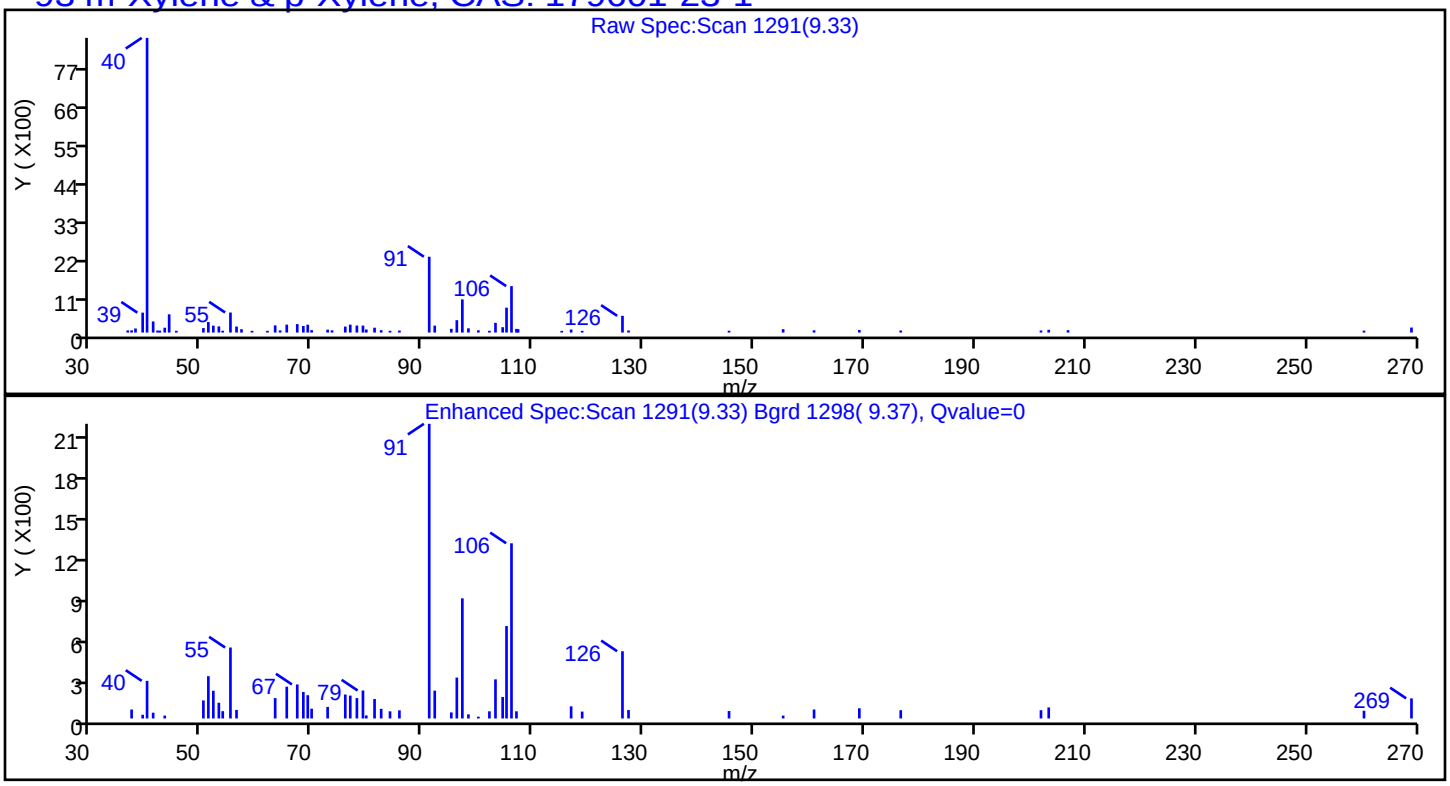
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D				
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5		
Client ID:	PDI-18-SO-21-06282018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

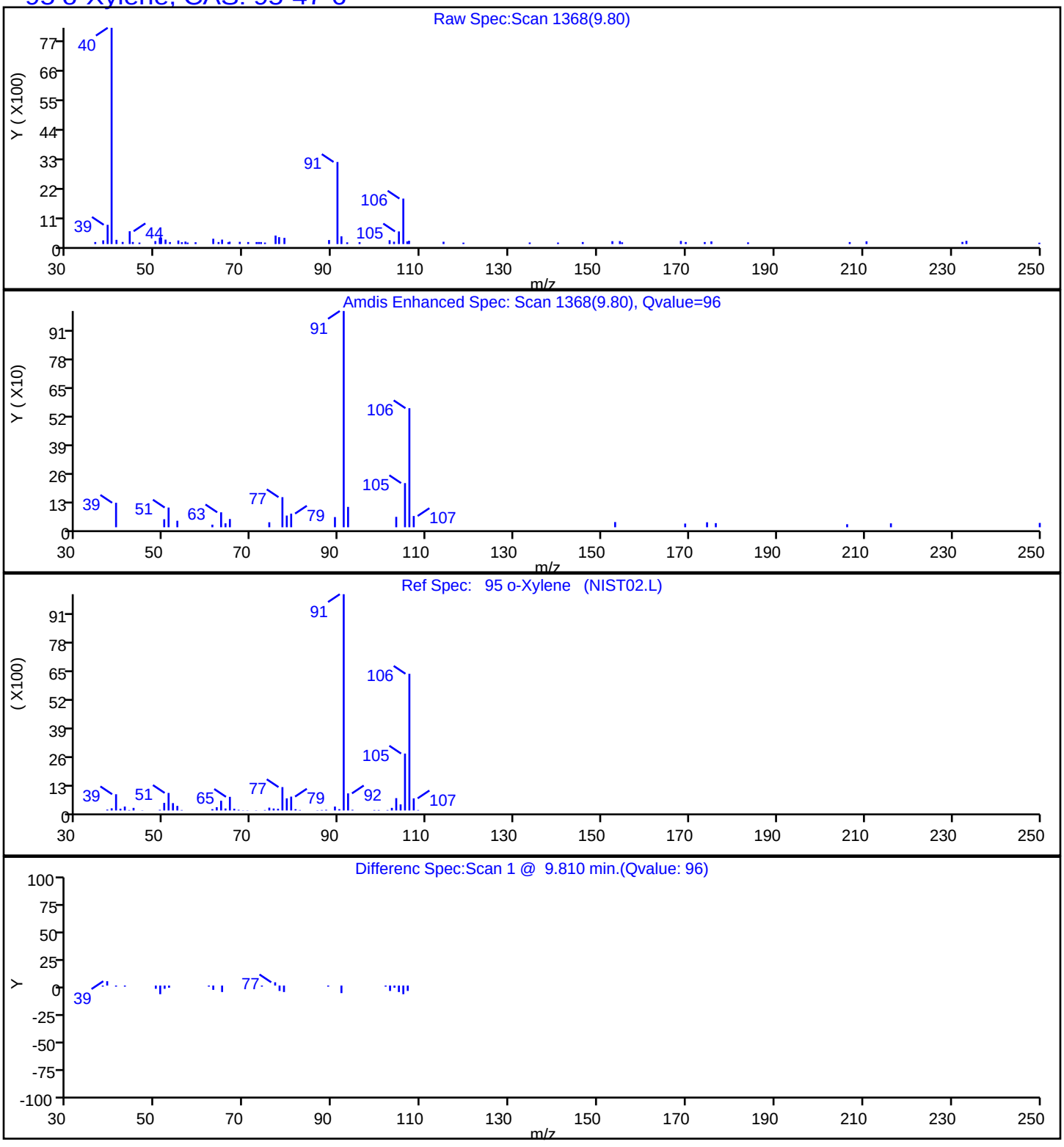
93 m-Xylene & p-Xylene, CAS: 179601-23-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

95 o-Xylene, CAS: 95-47-6



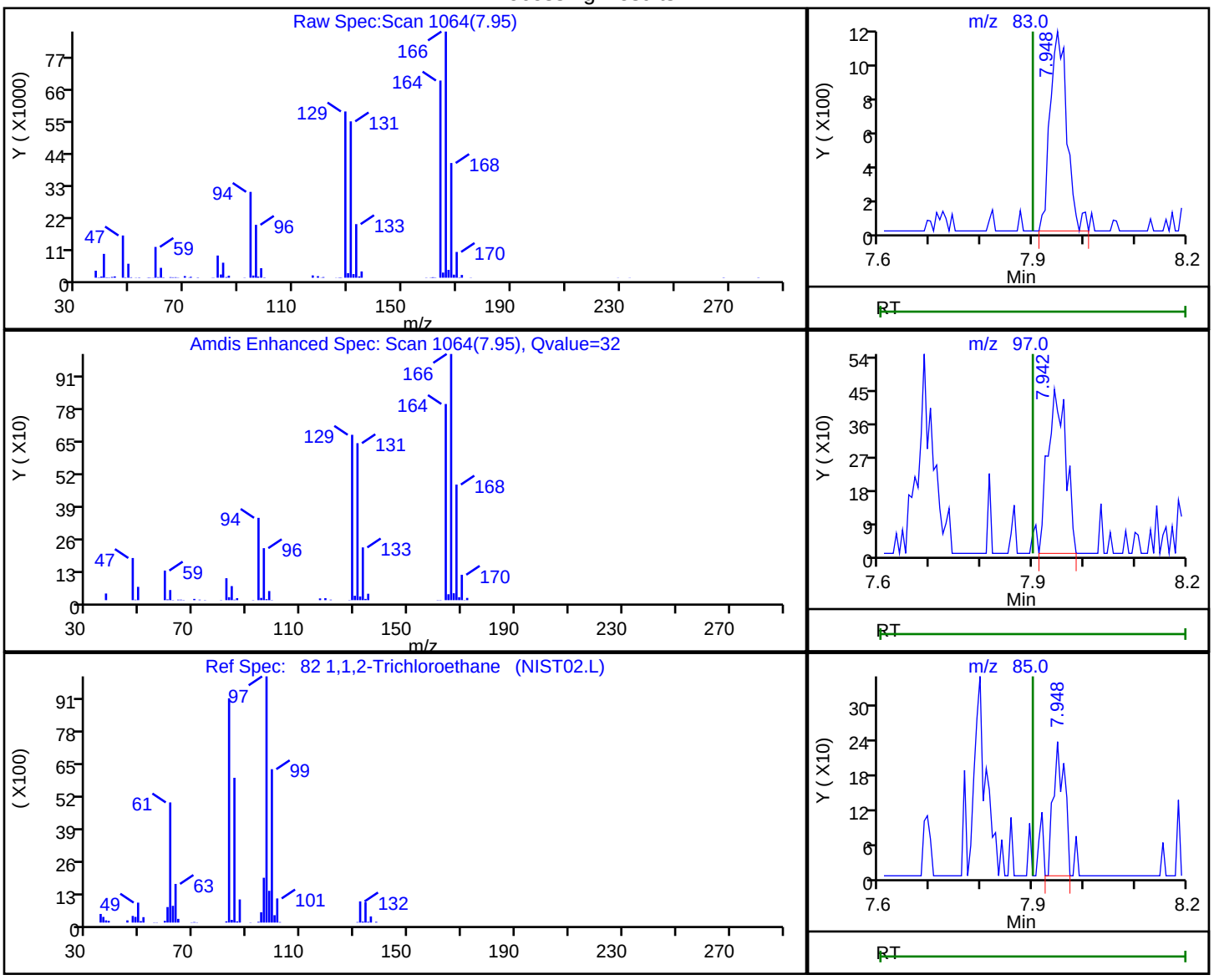
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.95	83.00	2594	0.888244
7.94	97.00	1099	
7.95	85.00	352	

Reviewer: delpolitov, 11-Jul-2018 13:50:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

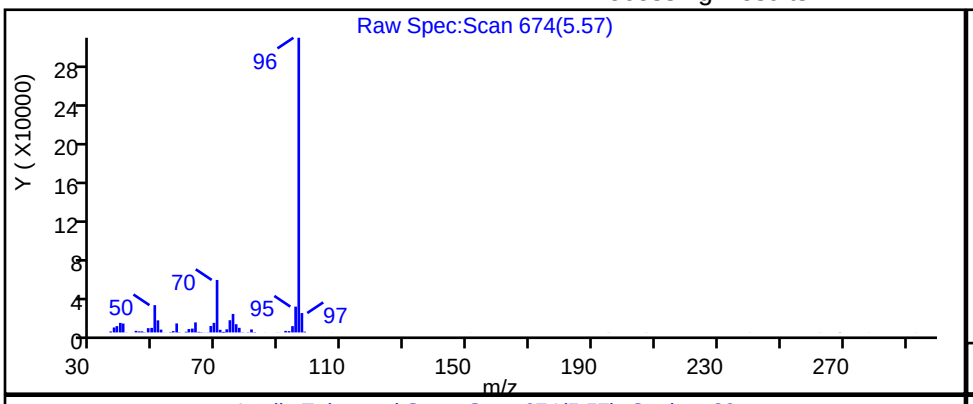
User Disabled Compound Report

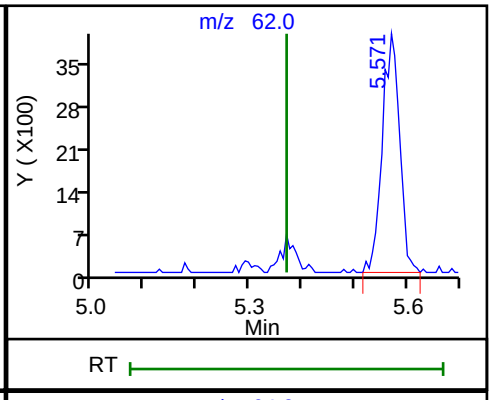
TestAmerica Edison

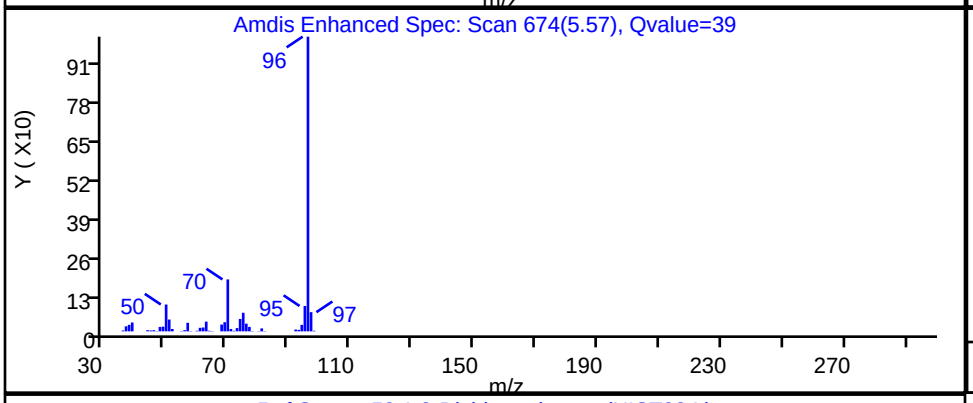
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D				
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5		
Client ID:	PDI-18-SO-21-06282018				
Operator ID:		ALS Bottle#:	15	Worklist Smp#:	16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

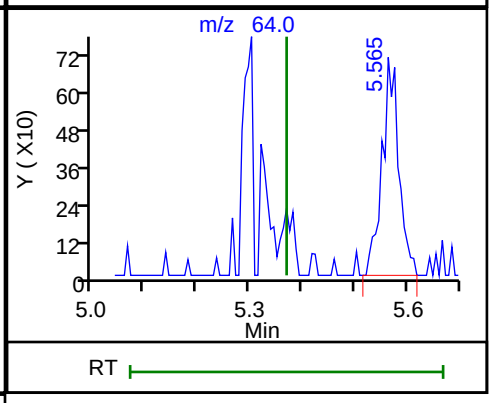
59 1,2-Dichloroethane, CAS: 107-06-2

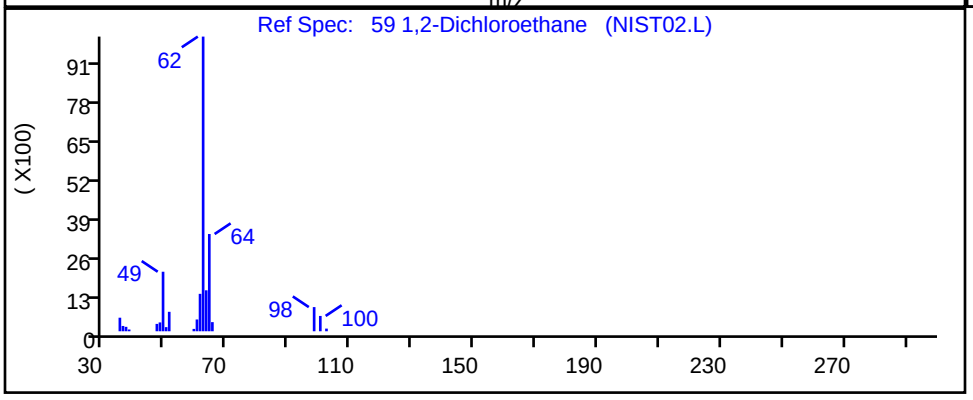
Processing Results











RT	Mass	Response	Amount
5.57	62.00	9076	1.497762
5.56	64.00	1573	

Reviewer: delpolitov, 11-Jul-2018 13:50:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

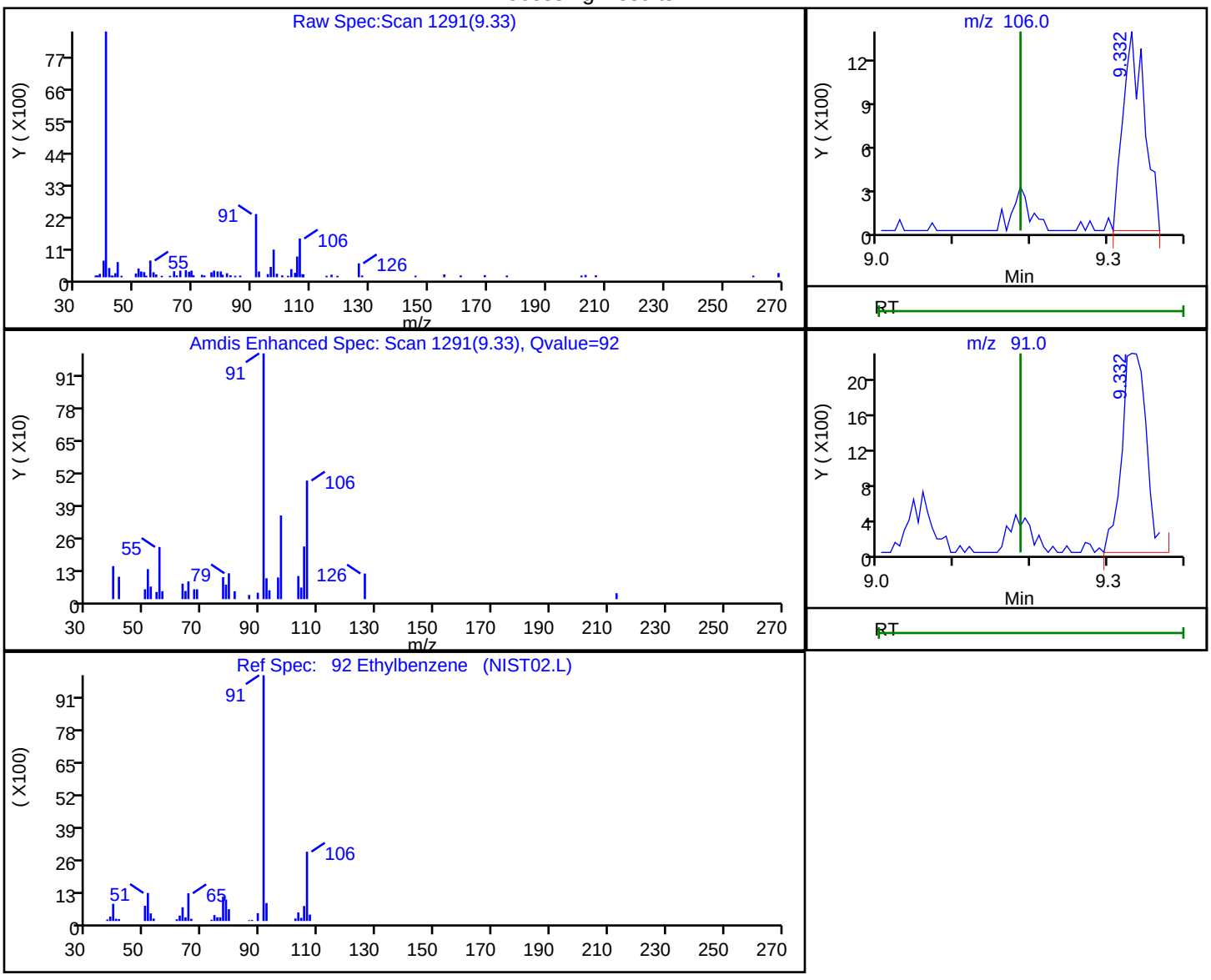
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.33	106.00	2642	0.365389
9.33	91.00	4940	

Reviewer: delpolitov, 11-Jul-2018 13:50:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

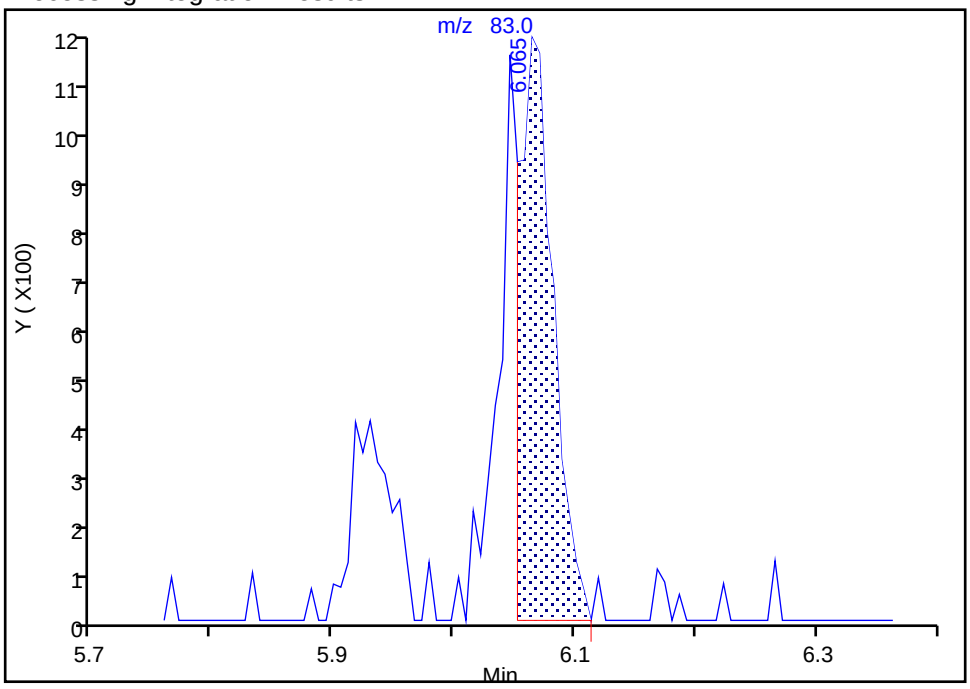
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

65 Methylcyclohexane, CAS: 108-87-2

Signal: 1

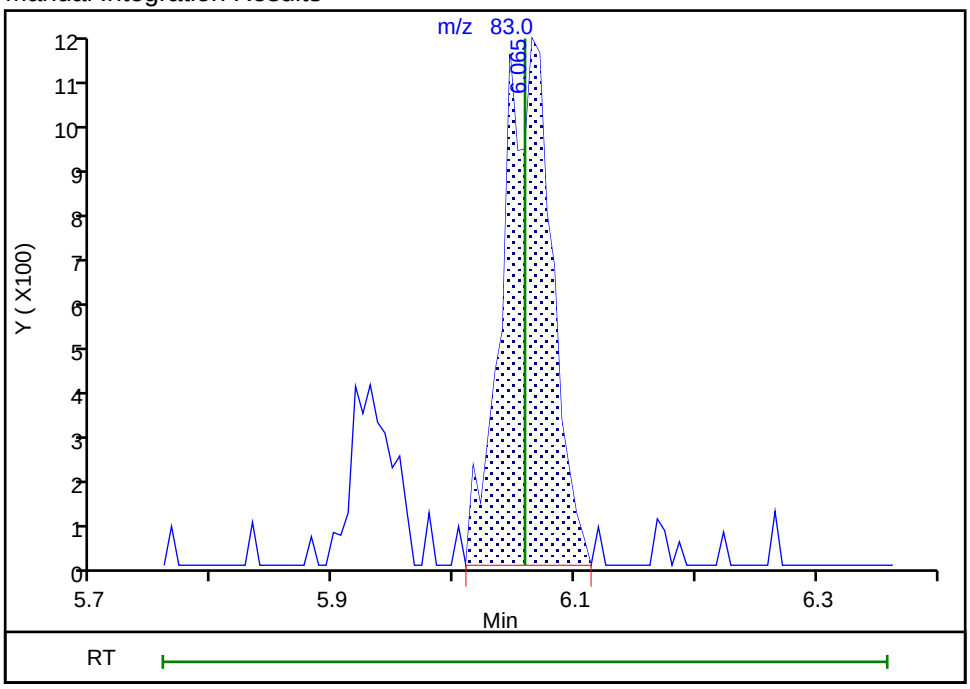
Processing Integration Results

RT: 6.06
Area: 2221
Amount: 0.281250
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 3178
Amount: 0.402437
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 13:50:27

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

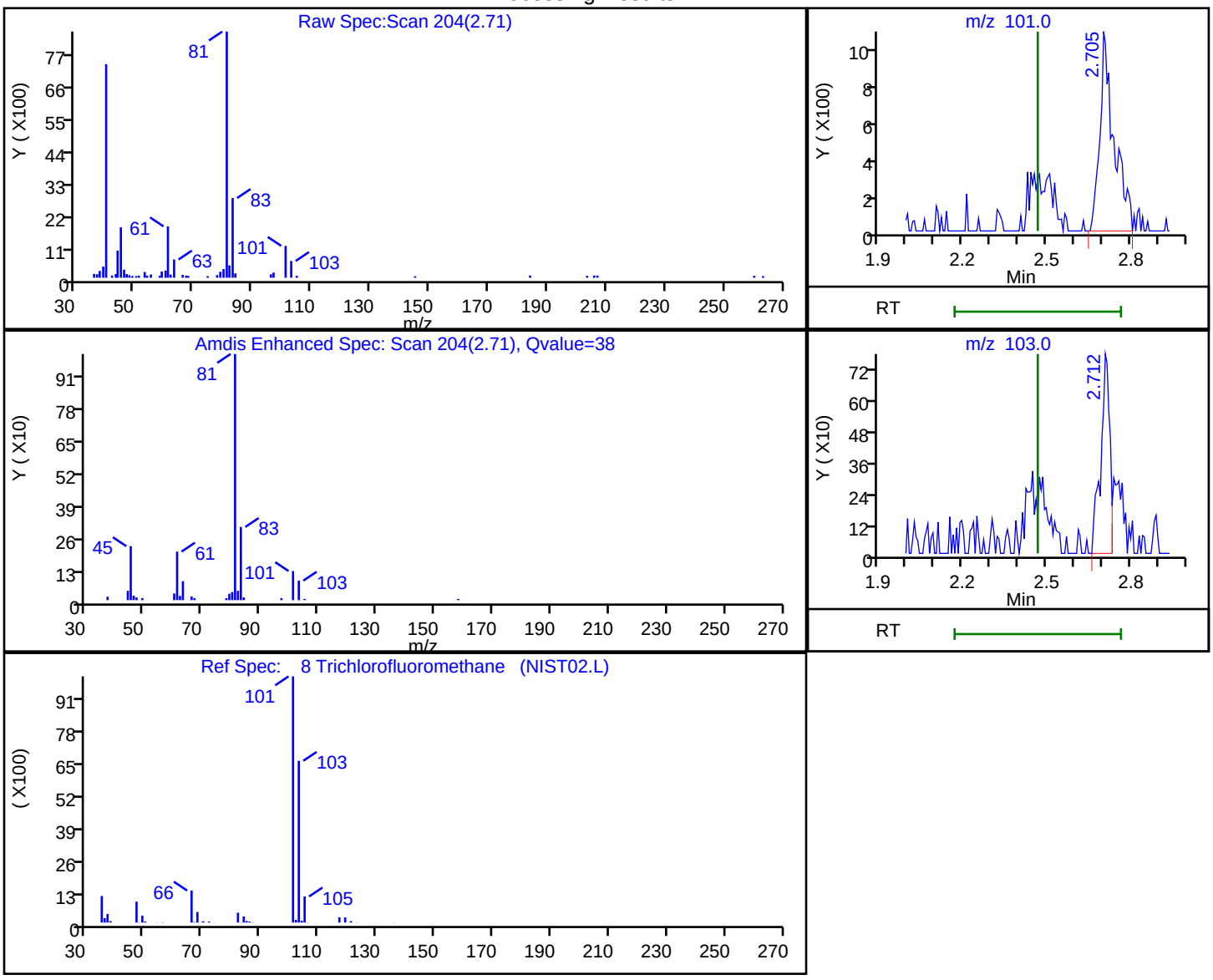
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Processing Results



RT	Mass	Response	Amount
2.71	101.00	3841	0.422821
2.71	103.00	1773	

Reviewer: delpolitov, 11-Jul-2018 13:50:04

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

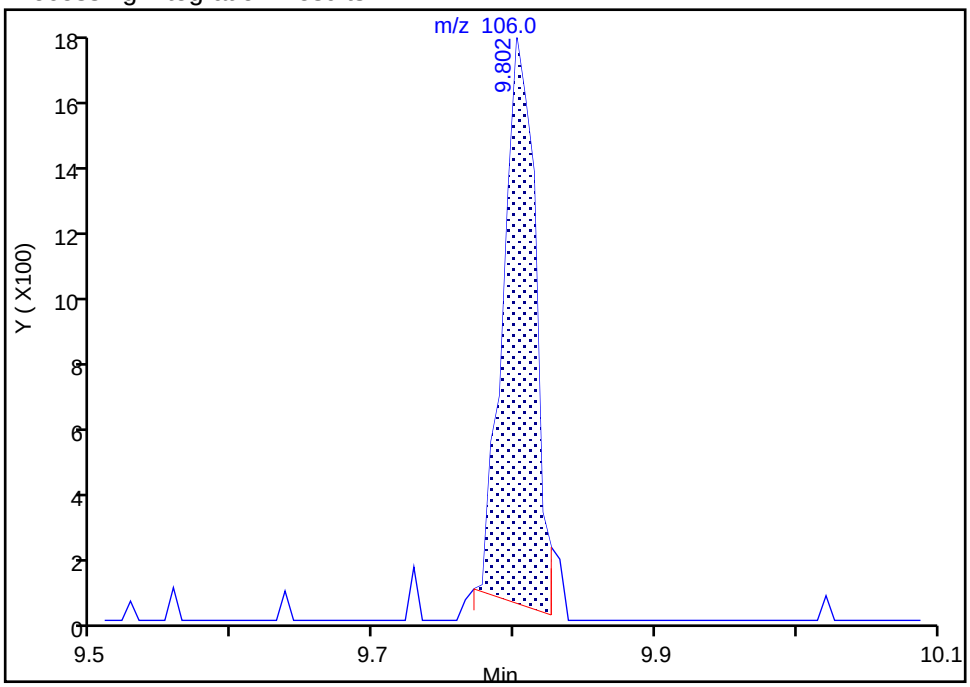
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86426.D		
Injection Date:	11-Jul-2018 13:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-5-A	Lab Sample ID:	460-159550-5
Client ID:	PDI-18-SO-21-06282018		
Operator ID:		ALS Bottle#:	15 Worklist Smp#: 16
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

95 o-Xylene, CAS: 95-47-6

Signal: 1

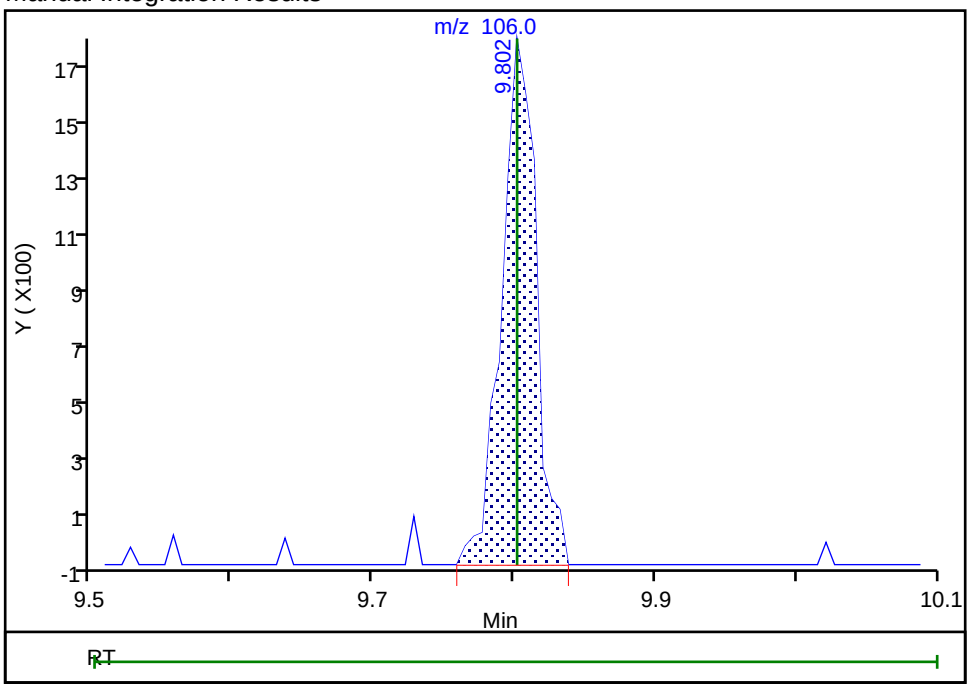
Processing Integration Results

RT: 9.80
Area: 2654
Amount: 0.284418
Amount Units: ug/l



Manual Integration Results

RT: 9.80
Area: 2952
Amount: 0.316353
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 13:50:44

Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-19-SO-79-06282018 | Lab Sample ID: 460-159550-6

Matrix: Solid | Lab File ID: K86450.D

Analysis Method: 8260C | Date Collected: 06/28/2018 01:30

Sample wt/vol: 7.682(g) | Date Analyzed: 07/11/2018 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.8 | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		0.78	0.18
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.78	0.17
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.78	0.24
79-00-5	1,1,2-Trichloroethane	ND		0.78	0.14
75-34-3	1,1-Dichloroethane	ND		0.78	0.16
75-35-4	1,1-Dichloroethene	ND		0.78	0.18
120-82-1	1,2,4-Trichlorobenzene	ND		0.78	0.072
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.78	0.36
95-50-1	1,2-Dichlorobenzene	ND		0.78	0.11
107-06-2	1,2-Dichloroethane	ND		0.78	0.23
78-87-5	1,2-Dichloropropane	ND		0.78	0.33
541-73-1	1,3-Dichlorobenzene	ND		0.78	0.12
106-46-7	1,4-Dichlorobenzene	ND		0.78	0.078
78-93-3	2-Butanone (MEK)	ND		3.9	0.87
591-78-6	2-Hexanone	ND		3.9	0.61
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		3.9	0.52
67-64-1	Acetone	9.0		3.9	3.0
71-43-2	Benzene	ND		0.78	0.20
75-25-2	Bromoform	ND		0.78	0.33
74-83-9	Bromomethane	ND		0.78	0.37
75-15-0	Carbon disulfide	ND		0.78	0.21
56-23-5	Carbon tetrachloride	ND		0.78	0.14
108-90-7	Chlorobenzene	ND		0.78	0.14
124-48-1	Dibromochloromethane	ND		0.78	0.15
75-00-3	Chloroethane	ND		0.78	0.41
67-66-3	Chloroform	ND		0.78	0.25
74-87-3	Chloromethane	ND		0.78	0.34
156-59-2	cis-1,2-Dichloroethene	0.24	J	0.78	0.12
110-82-7	Cyclohexane	ND		0.78	0.17
75-27-4	Bromodichloromethane	ND		0.78	0.20
75-71-8	Dichlorodifluoromethane	ND		0.78	0.26
100-41-4	Ethylbenzene	ND		0.78	0.16
106-93-4	1,2-Dibromoethane	ND		0.78	0.14
98-82-8	Isopropylbenzene	ND		0.78	0.099
79-20-9	Methyl acetate	ND	*	3.9	3.4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-19-SO-79-06282018 | Lab Sample ID: 460-159550-6

Matrix: Solid | Lab File ID: K86450.D

Analysis Method: 8260C | Date Collected: 06/28/2018 01:30

Sample wt/vol: 7.682(g) | Date Analyzed: 07/11/2018 22:57

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.8 | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.78	0.098
108-87-2	Methylcyclohexane	ND		0.78	0.13
75-09-2	Methylene Chloride	2.4	B	0.78	0.13
127-18-4	Tetrachloroethene	0.38	J	0.78	0.11
108-88-3	Toluene	ND		0.78	0.49
156-60-5	trans-1,2-Dichloroethene	ND		0.78	0.19
10061-02-6	trans-1,3-Dichloropropene	ND		0.78	0.21
79-01-6	Trichloroethene	9.8		0.78	0.11
75-69-4	Trichlorofluoromethane	ND		0.78	0.32
75-01-4	Vinyl chloride	ND		0.78	0.43
1330-20-7	Xylenes, Total	ND		1.6	0.20
10061-01-5	cis-1,3-Dichloropropene	ND		0.78	0.21
100-42-5	Styrene	ND		0.78	0.096

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	106		78-135
460-00-4	4-Bromofluorobenzene	100		67-126
2037-26-5	Toluene-d8 (Surr)	102		73-121
1868-53-7	Dibromofluoromethane (Surr)	107		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D
Lims ID: 460-159550-C-6-A
Client ID: PDI-19-SO-79-06282018
Sample Type: Client
Inject. Date: 11-Jul-2018 22:57:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-C-6-A
Misc. Info.: 460-0075283-010
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 09:58:38 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: tupayachia Date: 12-Jul-2018 09:58:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
18 Acetone	43	2.992	2.998	-0.006	86	17209	11.5	
26 Methylene Chloride	84	3.370	3.364	0.006	89	13024	3.09	
* 25 TBA-d9 (IS)	65	3.352	3.370	-0.018	0	597276	1000.0	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	365589	250.0	
40 cis-1,2-Dichloroethene	96	4.492	4.498	-0.006	72	1493	0.3104	
$ 51 Dibromofluoromethane (Surr	113	4.931	4.937	-0.006	97	212071	53.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.290	5.296	-0.006	0	195815	53.0	
* 61 Fluorobenzene	96	5.565	5.571	-0.006	100	577798	50.0	
63 Trichloroethene	95	5.931	5.930	0.000	95	51389	12.5	
* 67 1,4-Dioxane-d8	96	6.260	6.278	-0.018	0	47842	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.247	7.253	-0.006	99	674087	51.1	
83 Tetrachloroethene	166	7.948	7.948	0.000	96	2620	0.4795	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	496939	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	268220	50.2	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	93	320408	50.0	

Reagents:

8260SURR250_00179	Amount Added: 1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added: 1.00	Units: uL	Run Reagent

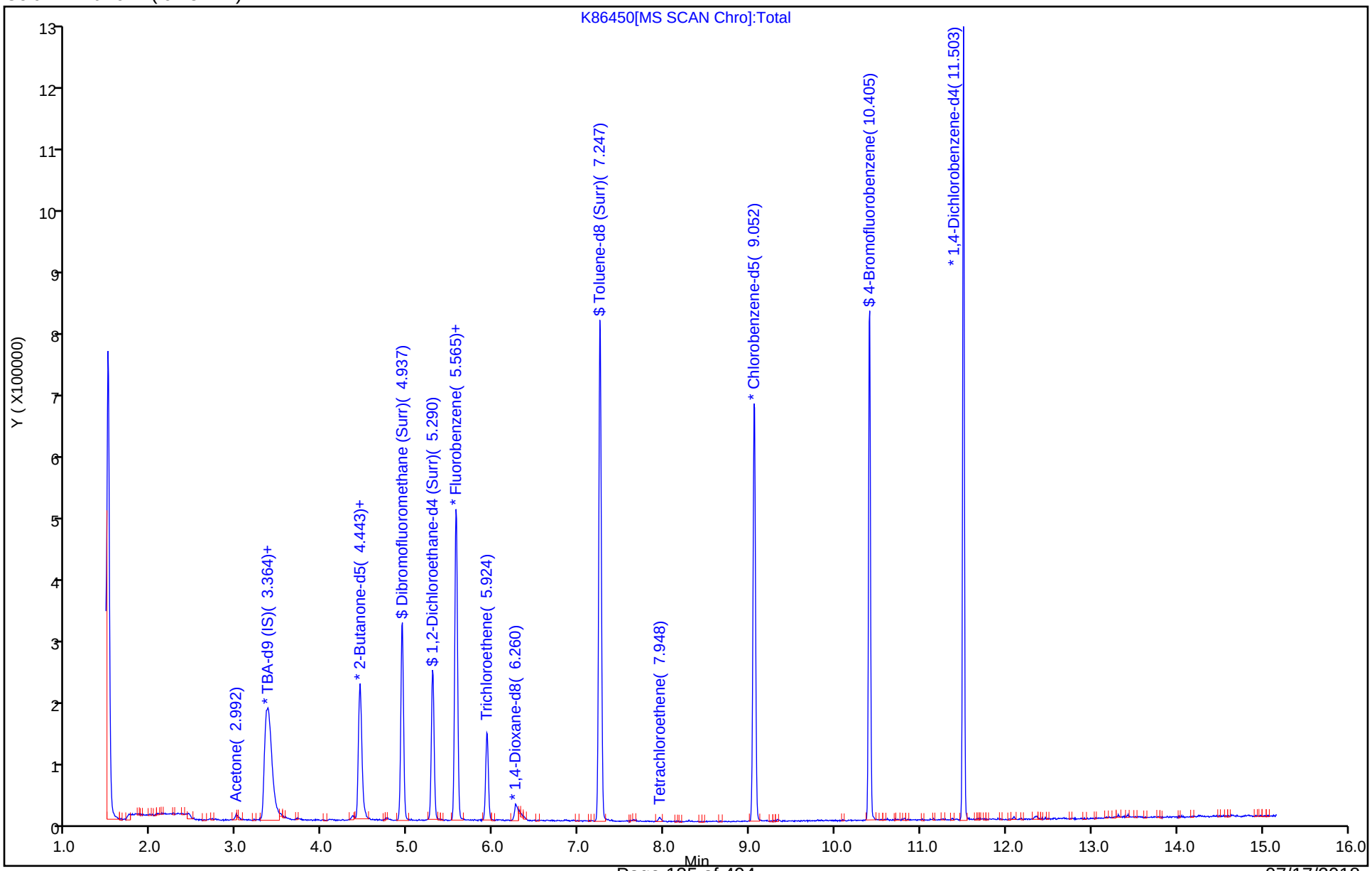
Report Date: 12-Jul-2018 09:58:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D

Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6	Worklist Smp#:	10
Client ID:	PDI-19-SO-79-06282018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

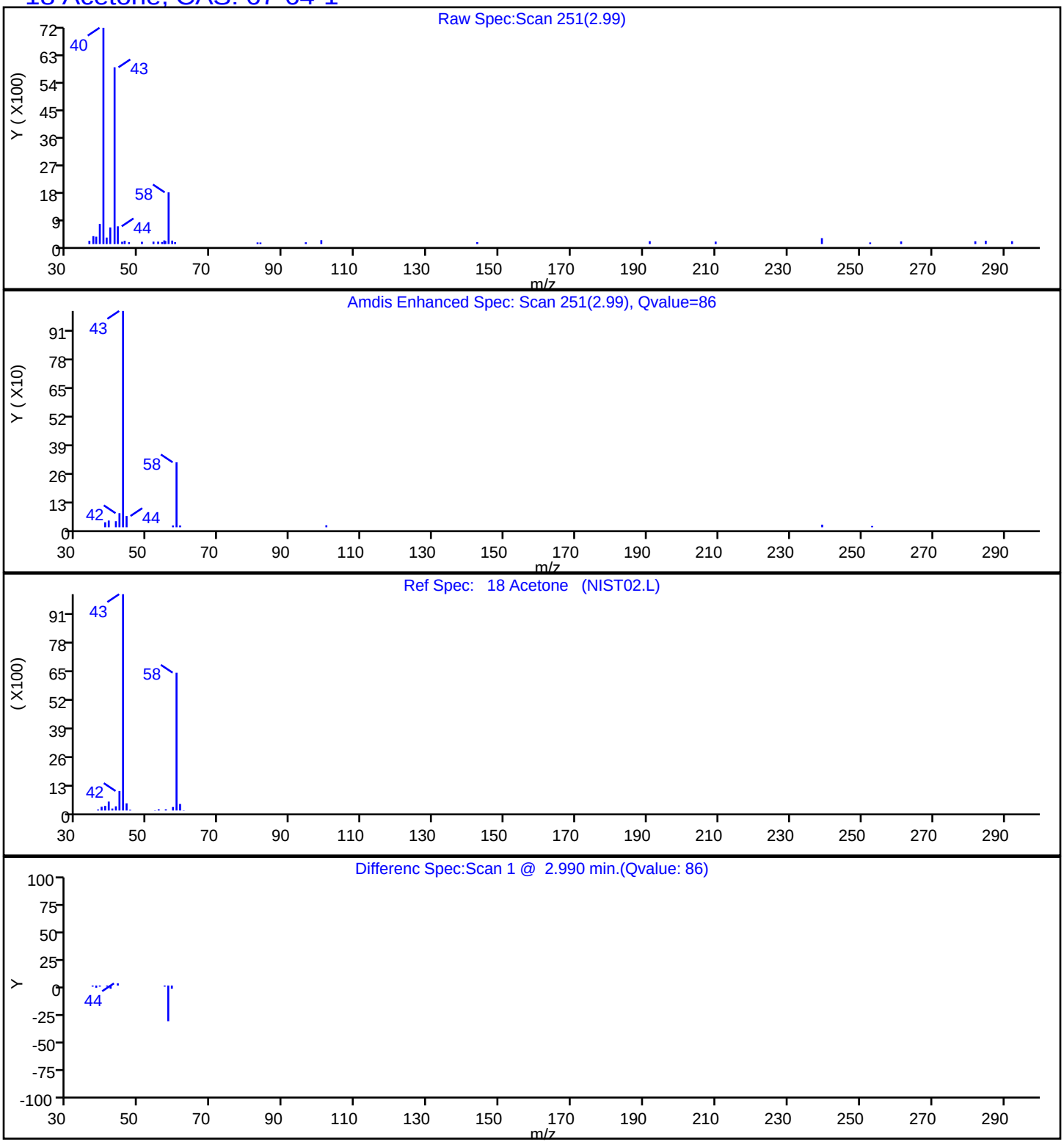
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D		
Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6
Client ID:	PDI-19-SO-79-06282018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

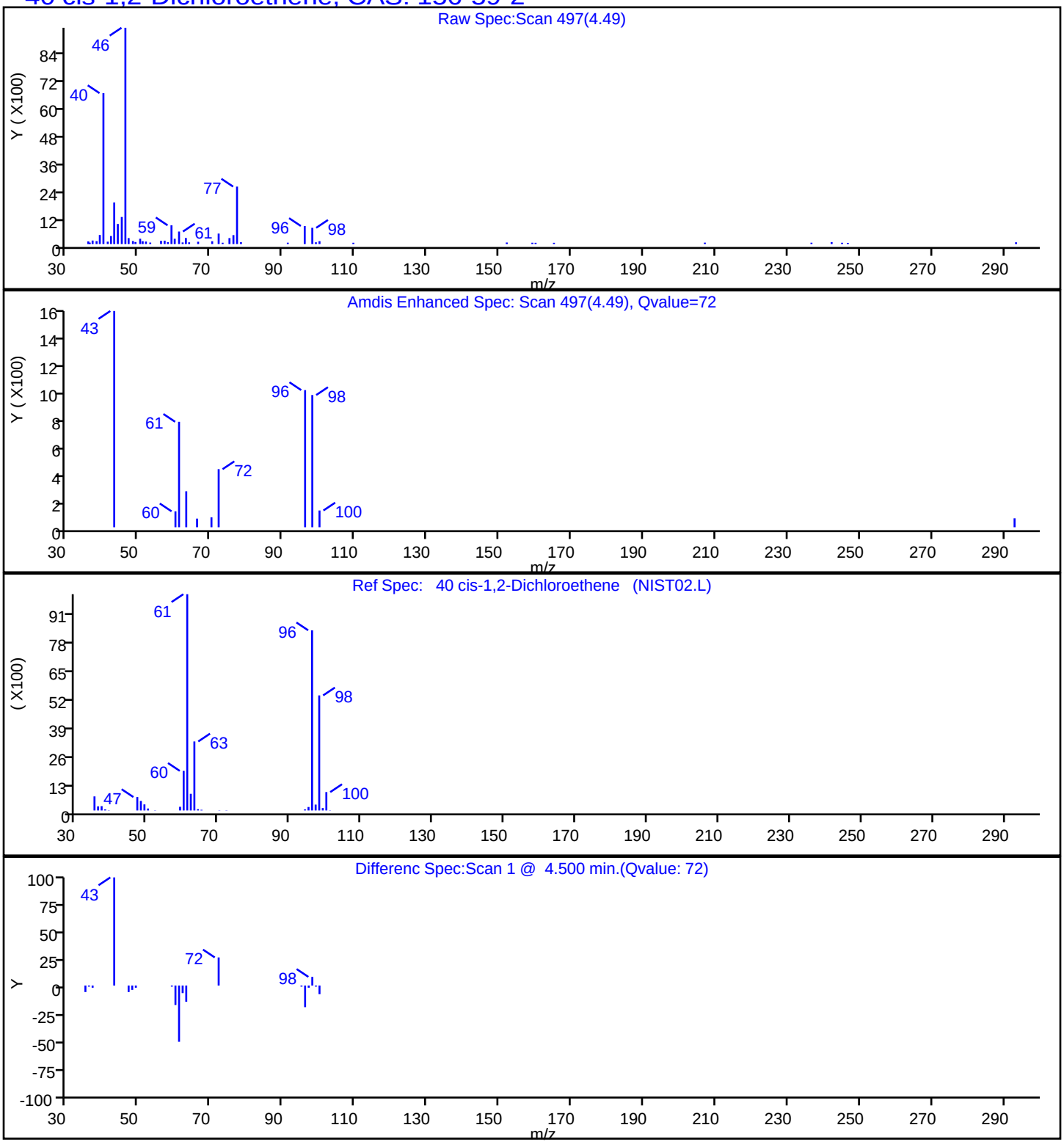
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D				
Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6		
Client ID:	PDI-19-SO-79-06282018				
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

40 cis-1,2-Dichloroethene, CAS: 156-59-2



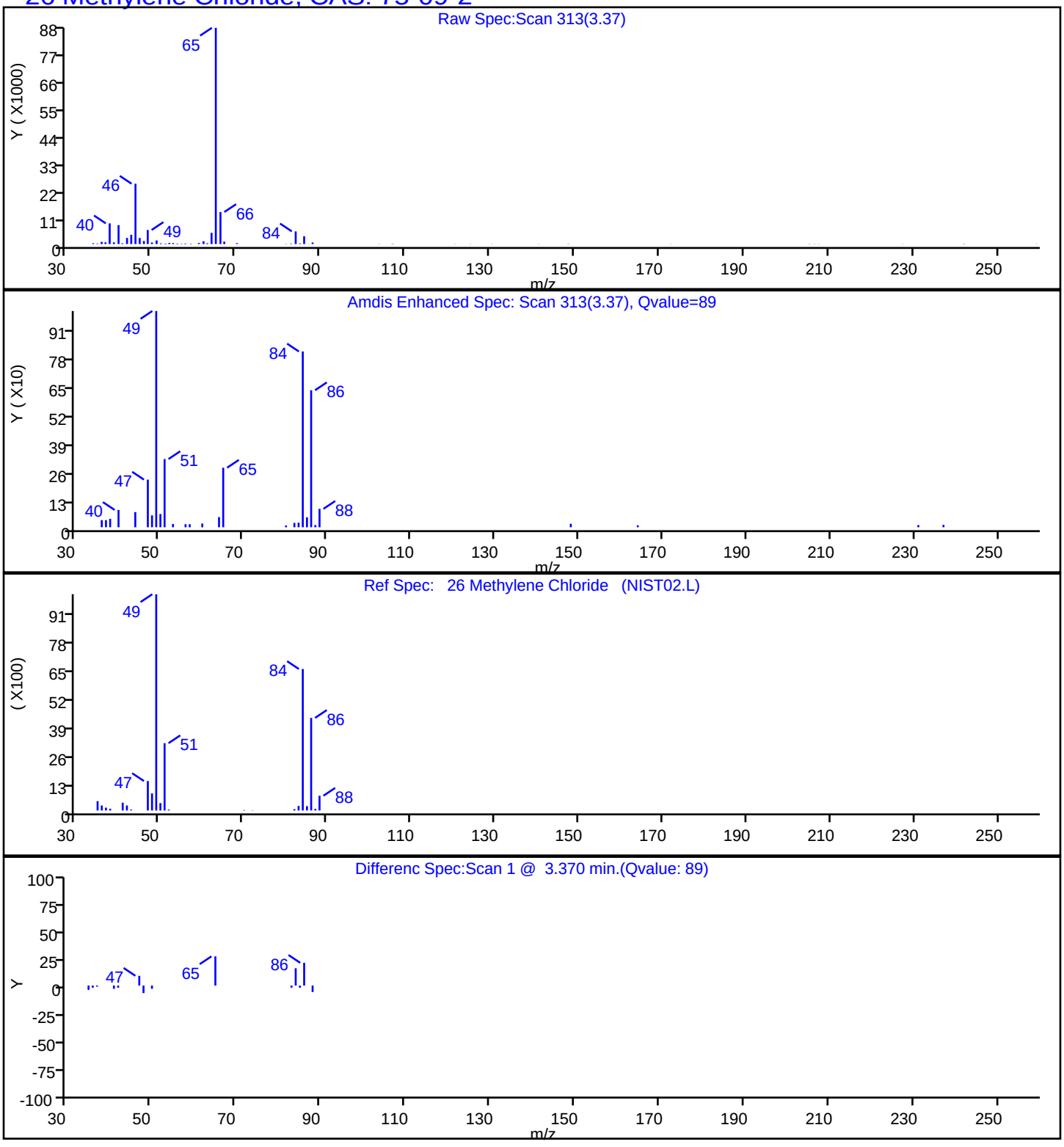
Report Date: 12-Jul-2018 09:58:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D

Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6		
Client ID:	PDI-19-SO-79-06282018				
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

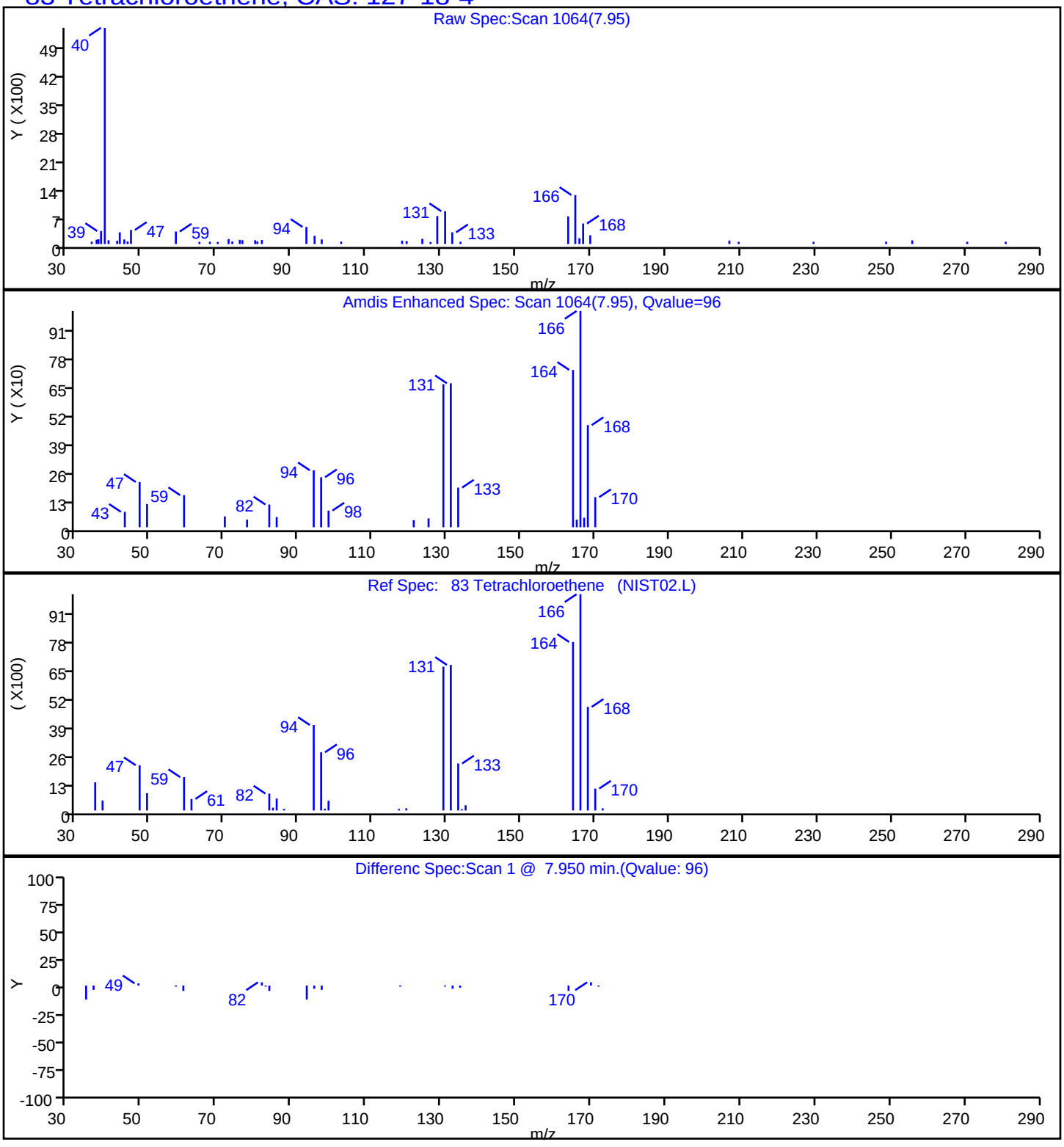
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D		
Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6
Client ID:	PDI-19-SO-79-06282018		
Operator ID:		ALS Bottle#:	9 Worklist Smp#: 10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

83 Tetrachloroethene, CAS: 127-18-4



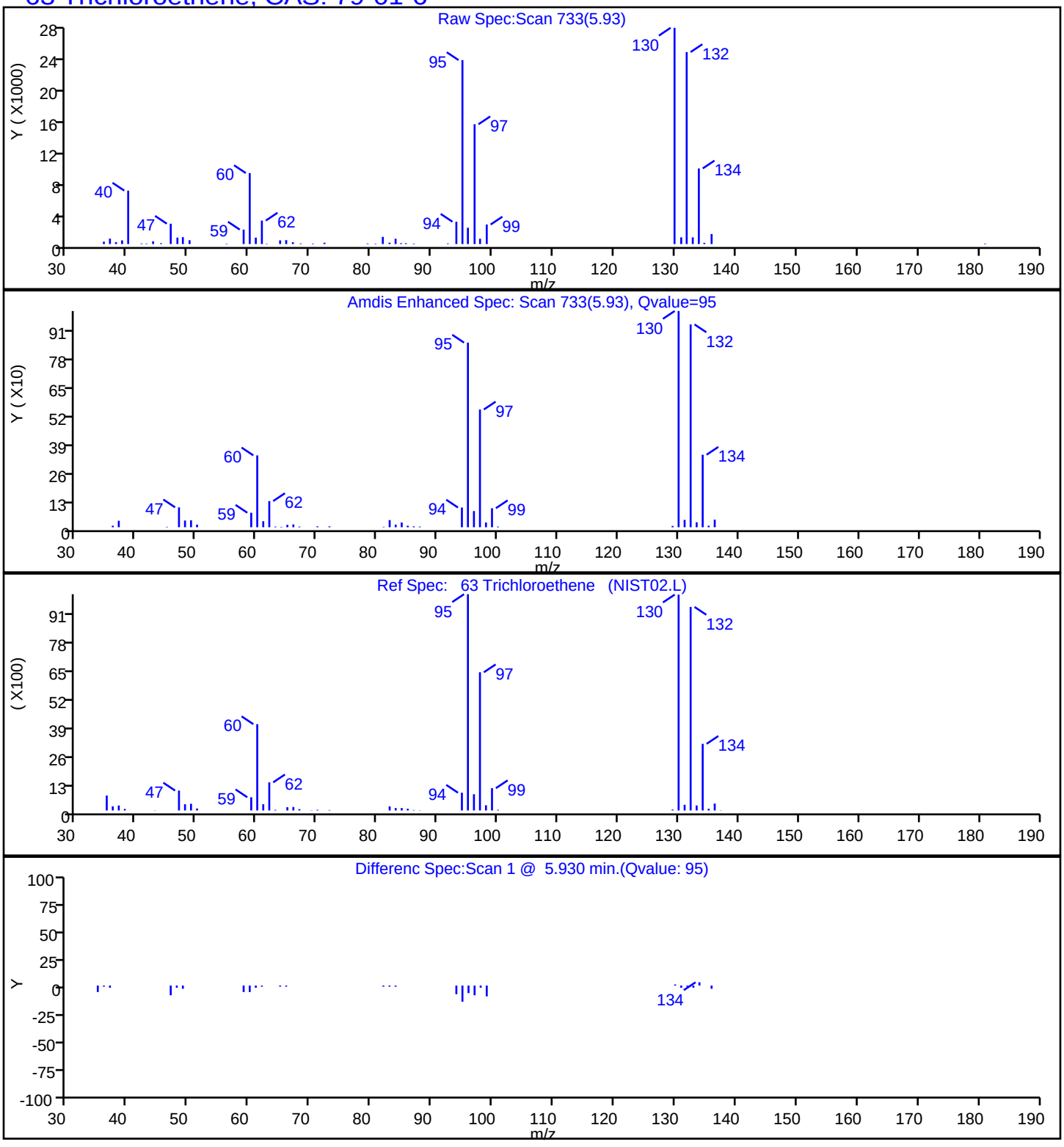
Report Date: 12-Jul-2018 09:58:38 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D

Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6		
Client ID:	PDI-19-SO-79-06282018				
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

63 Trichloroethene, CAS: 79-01-6



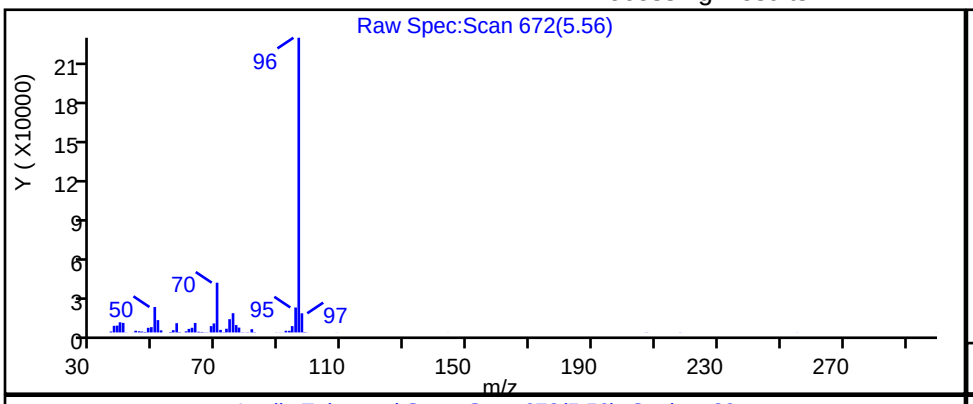
User Disabled Compound Report

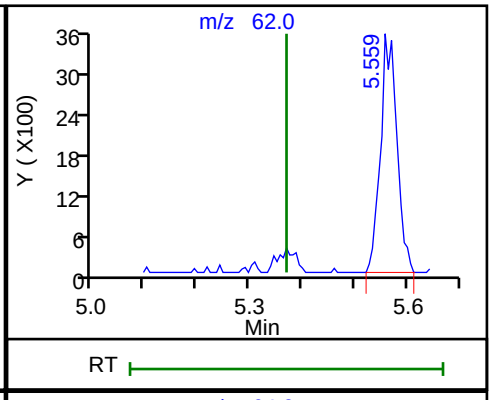
TestAmerica Edison

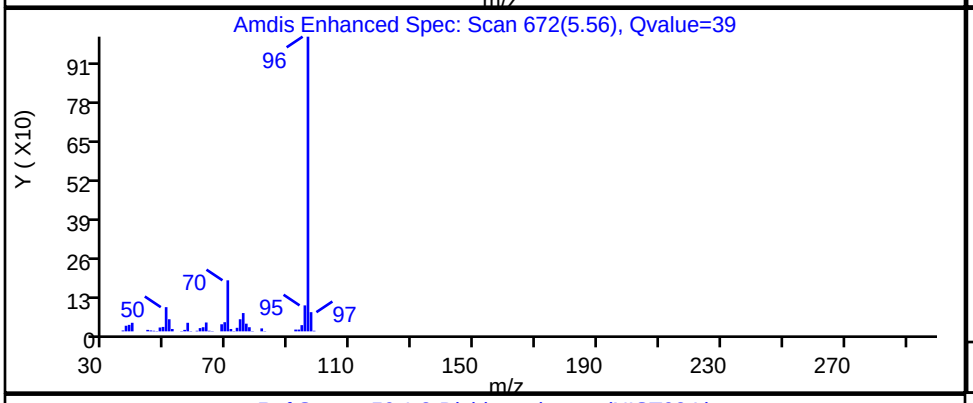
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86450.D				
Injection Date:	11-Jul-2018 22:57:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-C-6-A	Lab Sample ID:	460-159550-6		
Client ID:	PDI-19-SO-79-06282018				
Operator ID:		ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

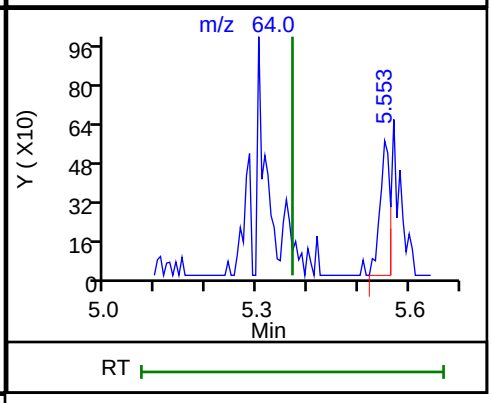
59 1,2-Dichloroethane, CAS: 107-06-2

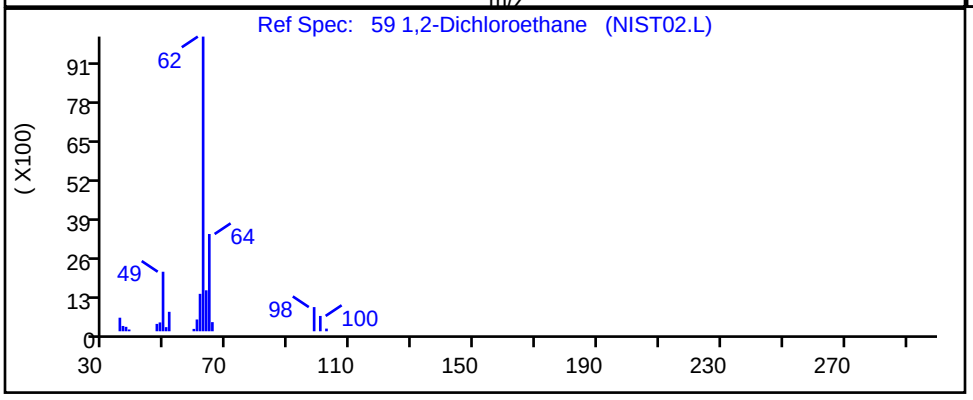
Processing Results











RT	Mass	Response	Amount
5.56	62.00	7750	1.498171
5.55	64.00	760	

Reviewer: tupayachia, 12-Jul-2018 09:58:26

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-20-SO-73-06292018 | Lab Sample ID: 460-159550-8

Matrix: Solid | Lab File ID: K86458.D

Analysis Method: 8260C | Date Collected: 06/29/2018 11:50

Sample wt/vol: 7.238(g) | Date Analyzed: 07/12/2018 02:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	0.96		0.82	0.19
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.82	0.18
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.82	0.25
79-00-5	1,1,2-Trichloroethane	ND		0.82	0.15
75-34-3	1,1-Dichloroethane	ND		0.82	0.17
75-35-4	1,1-Dichloroethene	0.19	J	0.82	0.19
120-82-1	1,2,4-Trichlorobenzene	ND		0.82	0.076
96-12-8	1,2-Dibromo-3-Chloropropane	ND		0.82	0.38
95-50-1	1,2-Dichlorobenzene	0.26	J	0.82	0.12
107-06-2	1,2-Dichloroethane	ND		0.82	0.24
78-87-5	1,2-Dichloropropane	ND		0.82	0.35
541-73-1	1,3-Dichlorobenzene	ND		0.82	0.13
106-46-7	1,4-Dichlorobenzene	ND		0.82	0.082
78-93-3	2-Butanone (MEK)	4.7		4.1	0.91
591-78-6	2-Hexanone	ND		4.1	0.64
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		4.1	0.55
67-64-1	Acetone	20		4.1	3.1
71-43-2	Benzene	ND		0.82	0.21
75-25-2	Bromoform	ND		0.82	0.35
74-83-9	Bromomethane	ND		0.82	0.39
75-15-0	Carbon disulfide	ND		0.82	0.22
56-23-5	Carbon tetrachloride	ND		0.82	0.15
108-90-7	Chlorobenzene	ND		0.82	0.15
124-48-1	Dibromochloromethane	ND		0.82	0.16
75-00-3	Chloroethane	ND		0.82	0.43
67-66-3	Chloroform	ND		0.82	0.26
74-87-3	Chloromethane	ND		0.82	0.36
156-59-2	cis-1,2-Dichloroethene	11		0.82	0.13
110-82-7	Cyclohexane	ND		0.82	0.18
75-27-4	Bromodichloromethane	ND		0.82	0.21
75-71-8	Dichlorodifluoromethane	ND		0.82	0.28
100-41-4	Ethylbenzene	ND		0.82	0.16
106-93-4	1,2-Dibromoethane	ND		0.82	0.15
98-82-8	Isopropylbenzene	ND		0.82	0.10
79-20-9	Methyl acetate	ND	*	4.1	3.5

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: PDI-20-SO-73-06292018 | Lab Sample ID: 460-159550-8

Matrix: Solid | Lab File ID: K86458.D

Analysis Method: 8260C | Date Collected: 06/29/2018 11:50

Sample wt/vol: 7.238(g) | Date Analyzed: 07/12/2018 02:14

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: 16.2 | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		0.82	0.10
108-87-2	Methylcyclohexane	ND		0.82	0.13
75-09-2	Methylene Chloride	0.61	J B	0.82	0.13
127-18-4	Tetrachloroethene	34		0.82	0.12
108-88-3	Toluene	ND		0.82	0.52
156-60-5	trans-1,2-Dichloroethene	ND		0.82	0.20
10061-02-6	trans-1,3-Dichloropropene	ND		0.82	0.22
79-01-6	Trichloroethene	400		0.82	0.12
75-69-4	Trichlorofluoromethane	ND		0.82	0.33
75-01-4	Vinyl chloride	ND		0.82	0.45
1330-20-7	Xylenes, Total	0.28	J	1.6	0.21
10061-01-5	cis-1,3-Dichloropropene	ND		0.82	0.23
100-42-5	Styrene	ND		0.82	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		78-135
460-00-4	4-Bromofluorobenzene	96		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	109		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D
Lims ID: 460-159550-B-8-A
Client ID: PDI-20-SO-873-06292018
Sample Type: Client
Inject. Date: 12-Jul-2018 02:14:30 ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-159550-B-8-A
Misc. Info.: 460-0075283-018
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 16-Jul-2018 19:44:07 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK028

First Level Reviewer: delpolitov Date: 16-Jul-2018 19:44:07

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
17 1,1-Dichloroethene	96	2.925	2.907	0.018	20	876	0.2334	
18 Acetone	43	3.016	2.998	0.018	91	29710	24.1	
26 Methylene Chloride	84	3.370	3.364	0.006	31	3114	0.7378	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	485471	1000.0	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	301746	250.0	
40 cis-1,2-Dichloroethene	96	4.504	4.498	0.006	96	64214	13.4	
42 2-Butanone (MEK)	72	4.510	4.498	0.012	29	3209	5.71	
50 1,1,1-Trichloroethane	97	4.925	4.931	-0.006	76	8090	1.16	M
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	216113	54.4	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	187720	50.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	577674	50.0	
63 Trichloroethene	95	5.930	5.930	0.000	95	1984644	483.9	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	40136	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	663554	52.1	
83 Tetrachloroethene	166	7.954	7.948	0.006	97	219712	41.6	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	479831	50.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	2546	0.3389	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	247274	48.0	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	93	284566	50.0	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	97	3377	0.3166	
S 131 Xylenes, Total	100				0		0.3389	

QC Flag Legend

Review Flags
M - Manually Integrated

Reagents:

8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

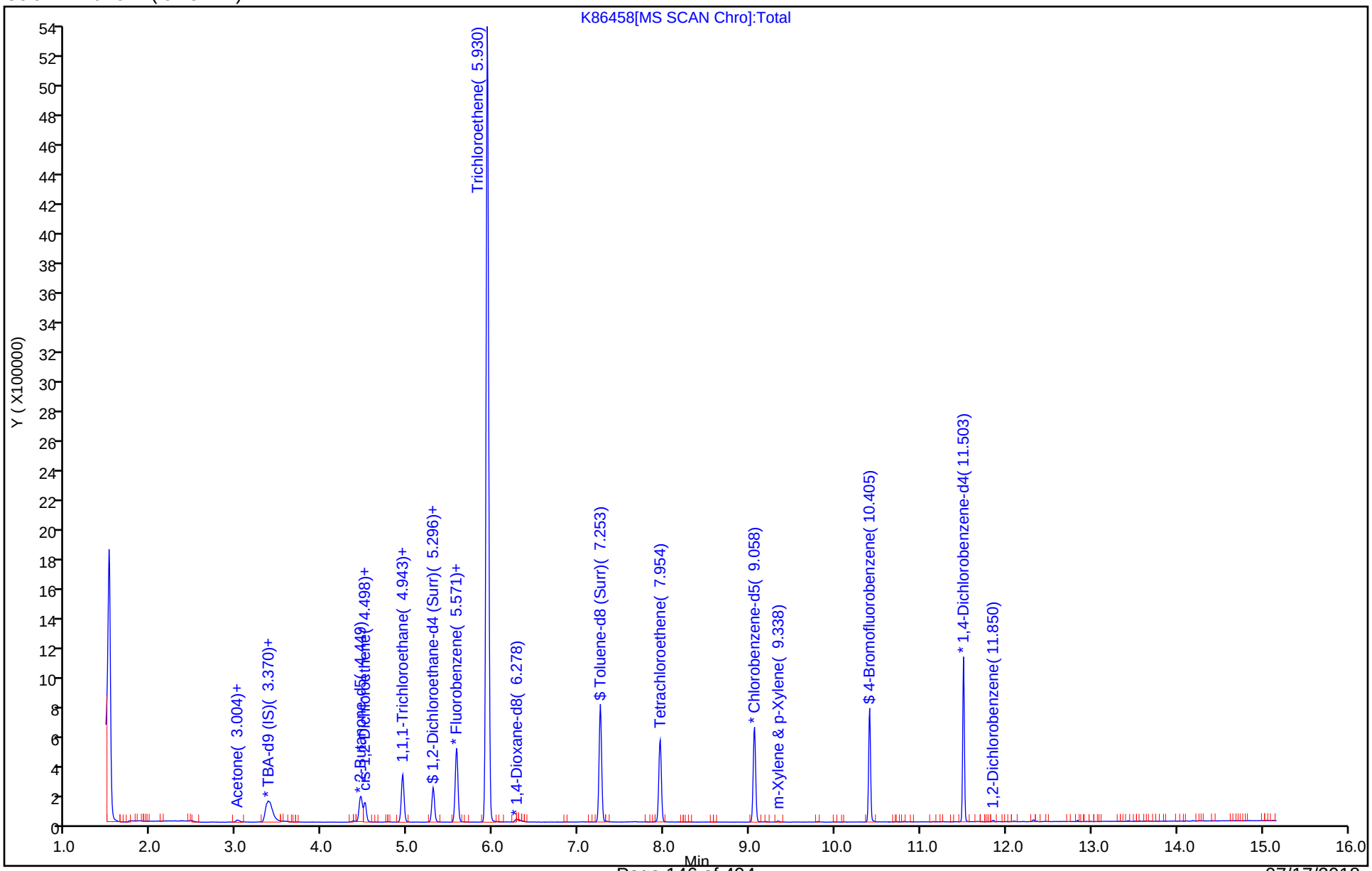
Report Date: 16-Jul-2018 19:44:08 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D

Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8	Worklist Smp#:	18
Client ID:	PDI-20-SO-873-06292018				
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	17
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

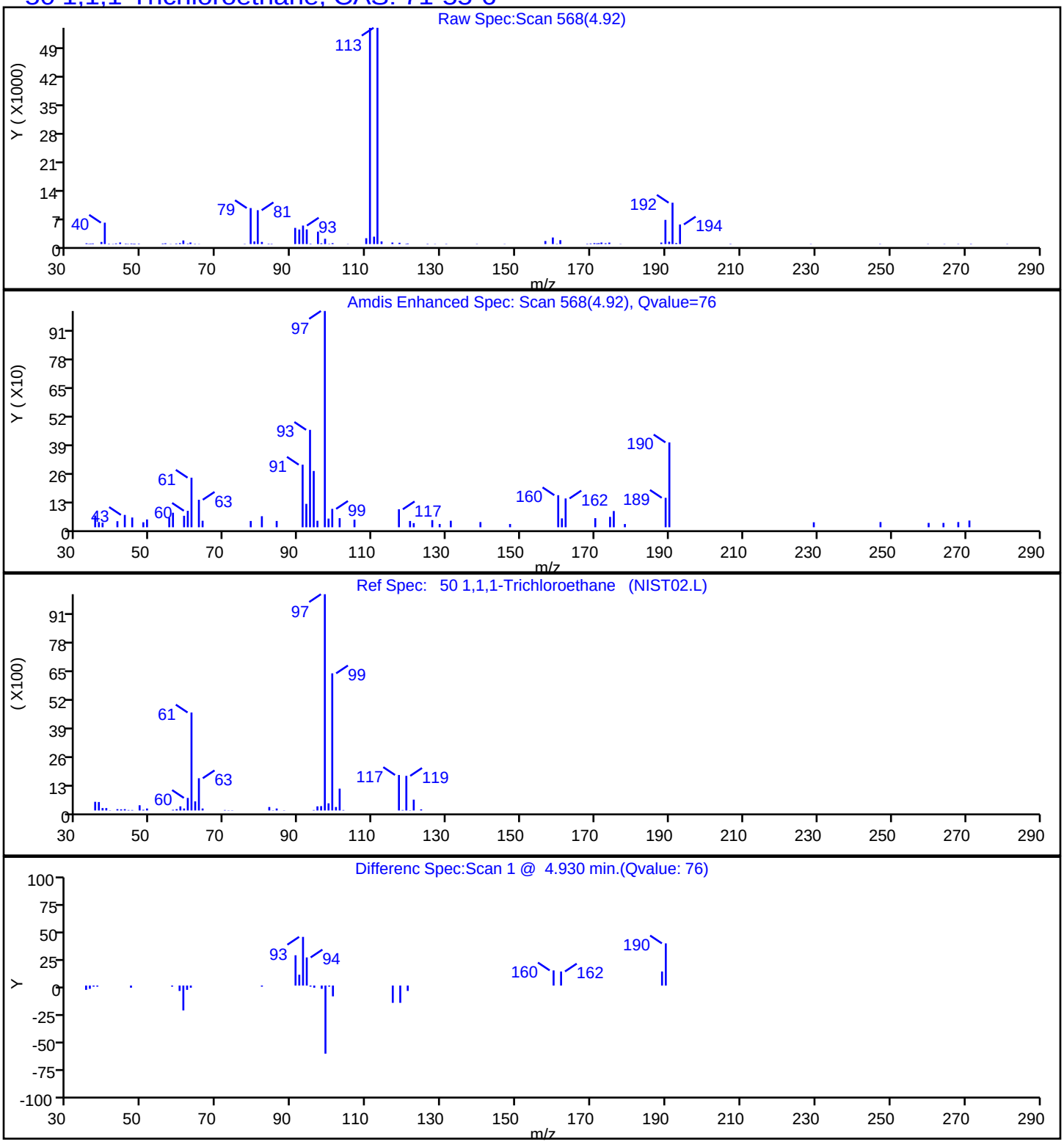
Column: Rtx-624 (0.25 mm)



TestAmerica Edison

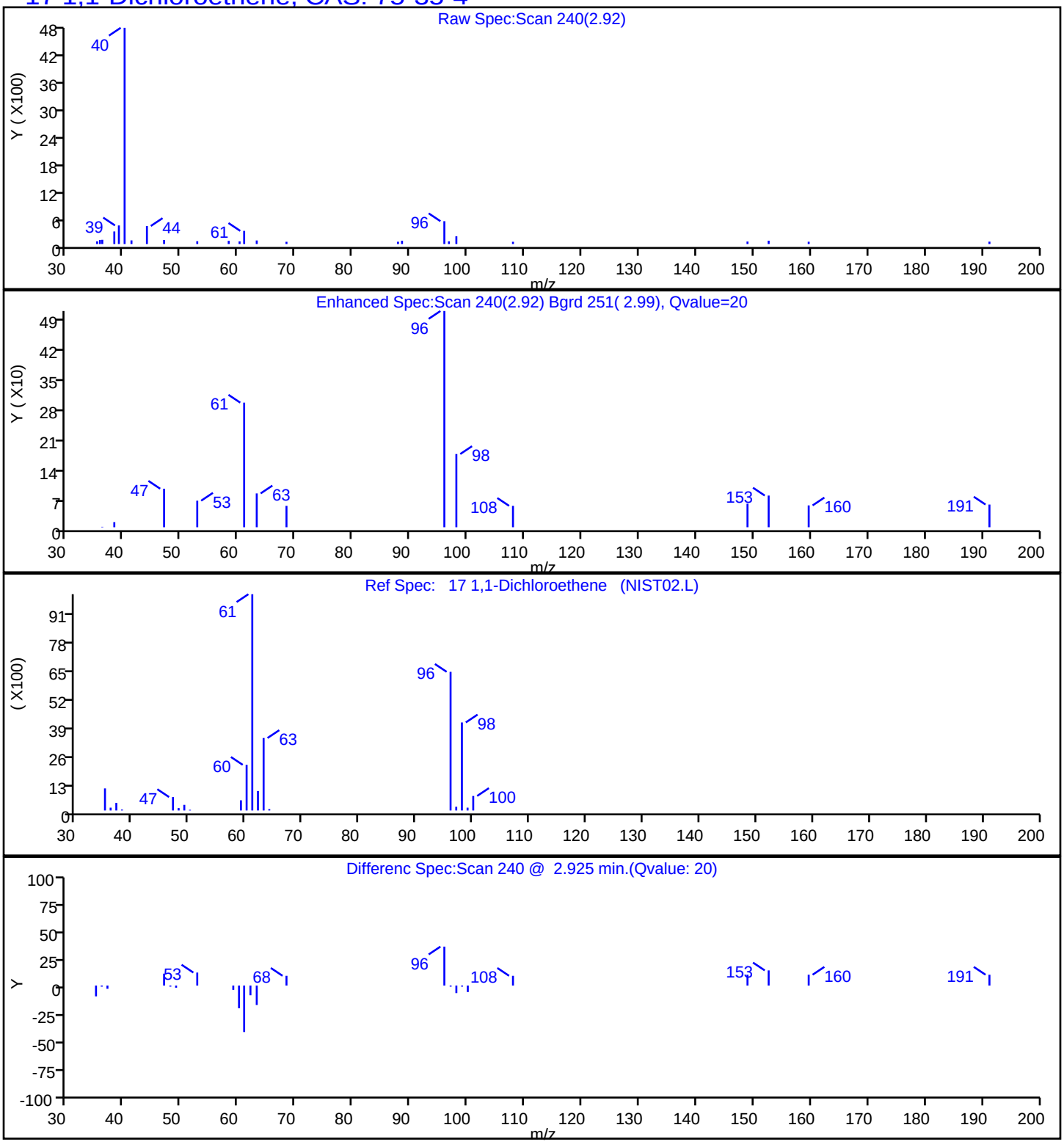
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D				
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8		
Client ID:	PDI-20-SO-873-06292018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

50 1,1,1-Trichloroethane, CAS: 71-55-6



Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D
Injection Date: 12-Jul-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: 460-159550-B-8-A Lab Sample ID: 460-159550-8
Client ID: PDI-20-SO-873-06292018
Operator ID: ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

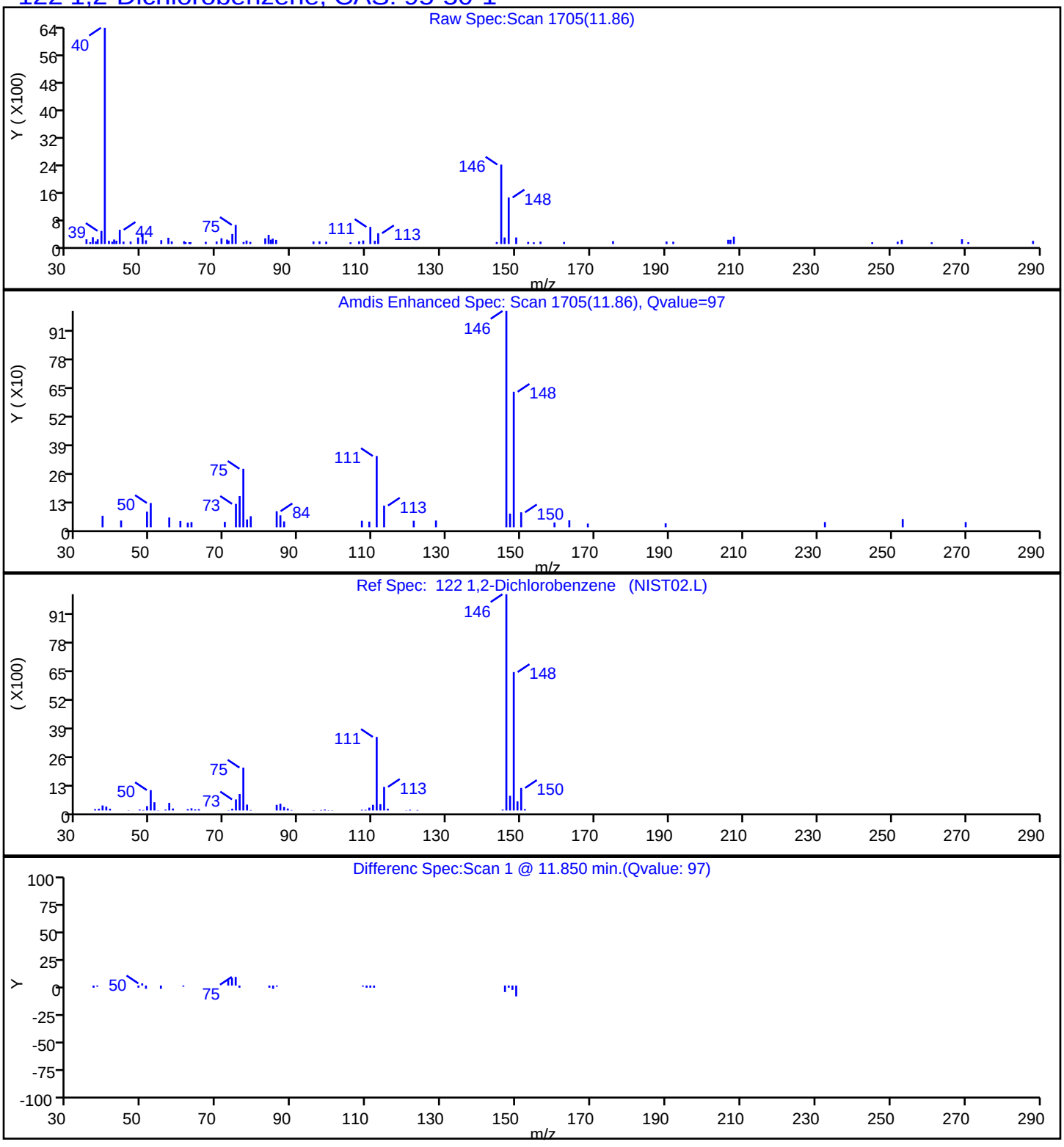
17 1,1-Dichloroethene, CAS: 75-35-4



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D				
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8		
Client ID:	PDI-20-SO-873-06292018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

122 1,2-Dichlorobenzene, CAS: 95-50-1

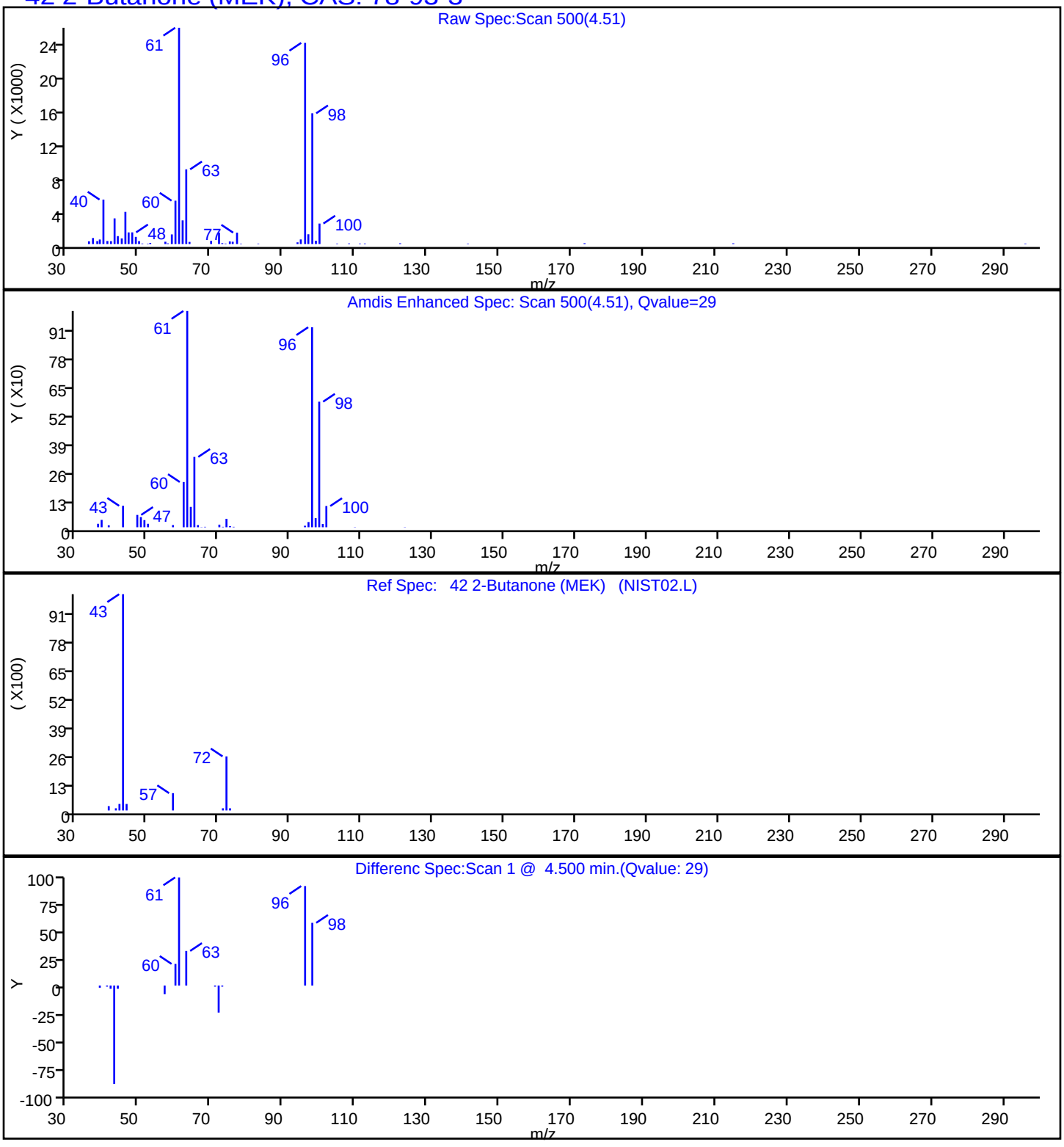


TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D

Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

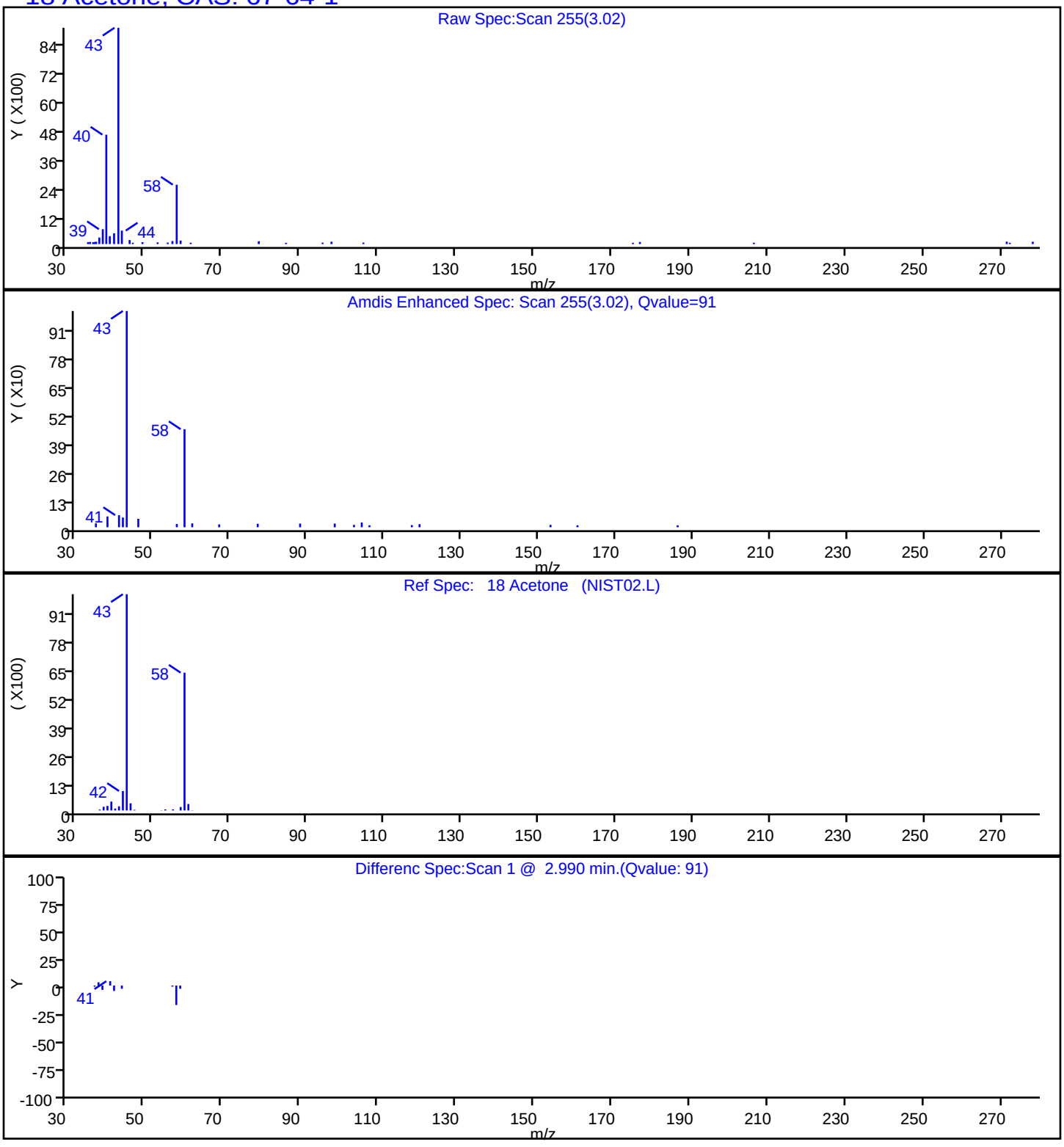
42 2-Butanone (MEK), CAS: 78-93-3



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

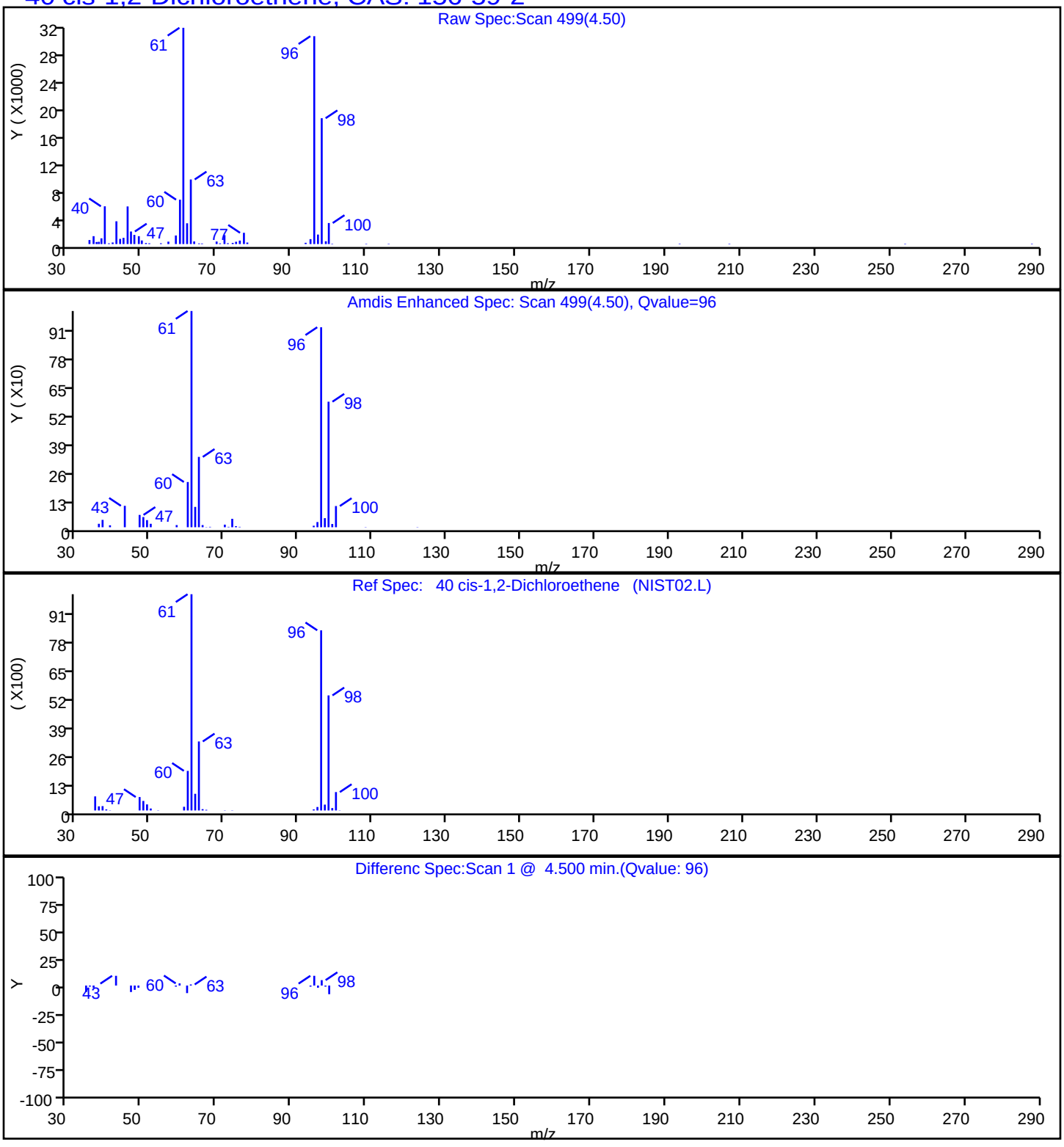
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D
Injection Date: 12-Jul-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: 460-159550-B-8-A Lab Sample ID: 460-159550-8
Client ID: PDI-20-SO-873-06292018
Operator ID: ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

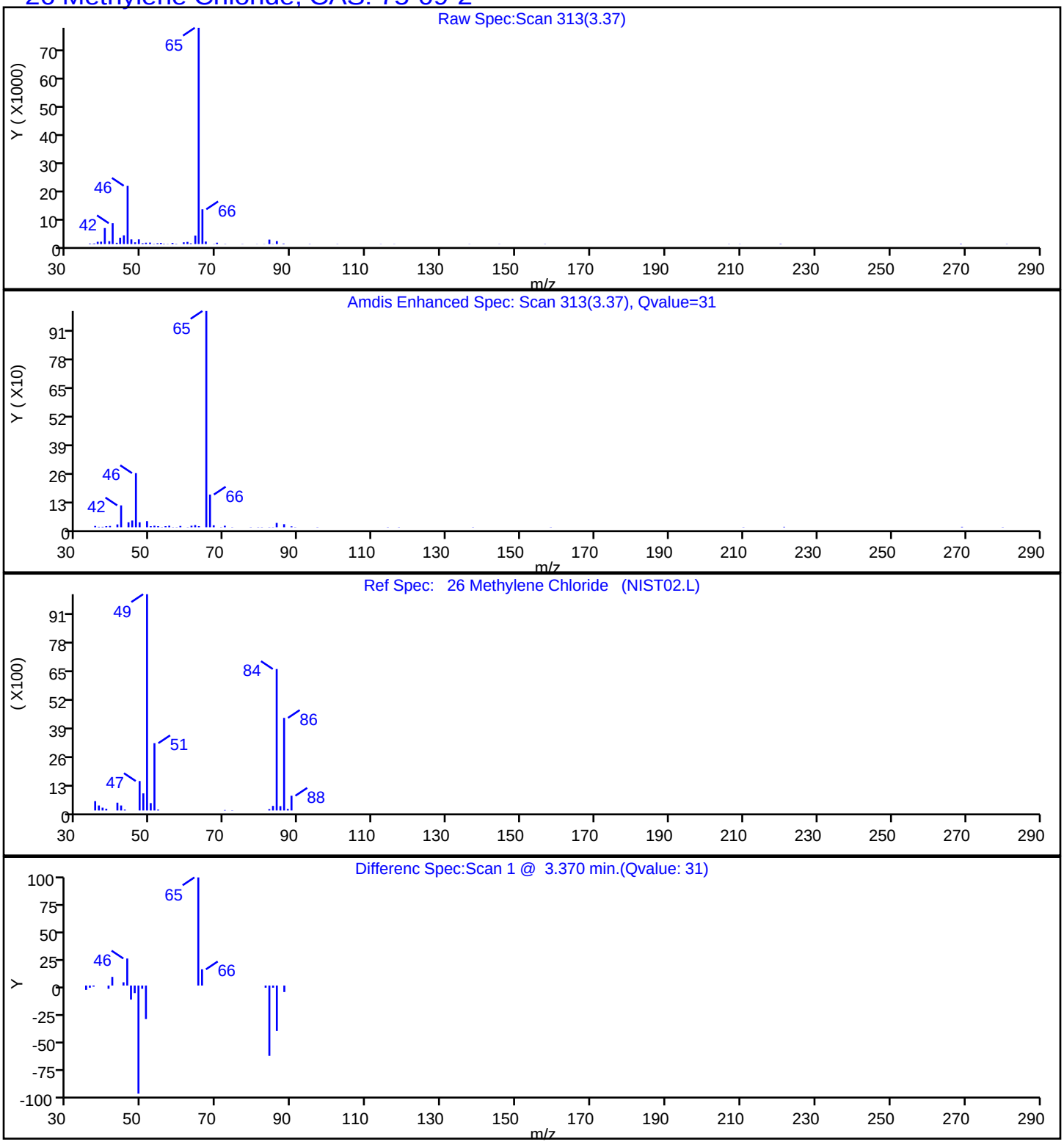
40 cis-1,2-Dichloroethene, CAS: 156-59-2



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

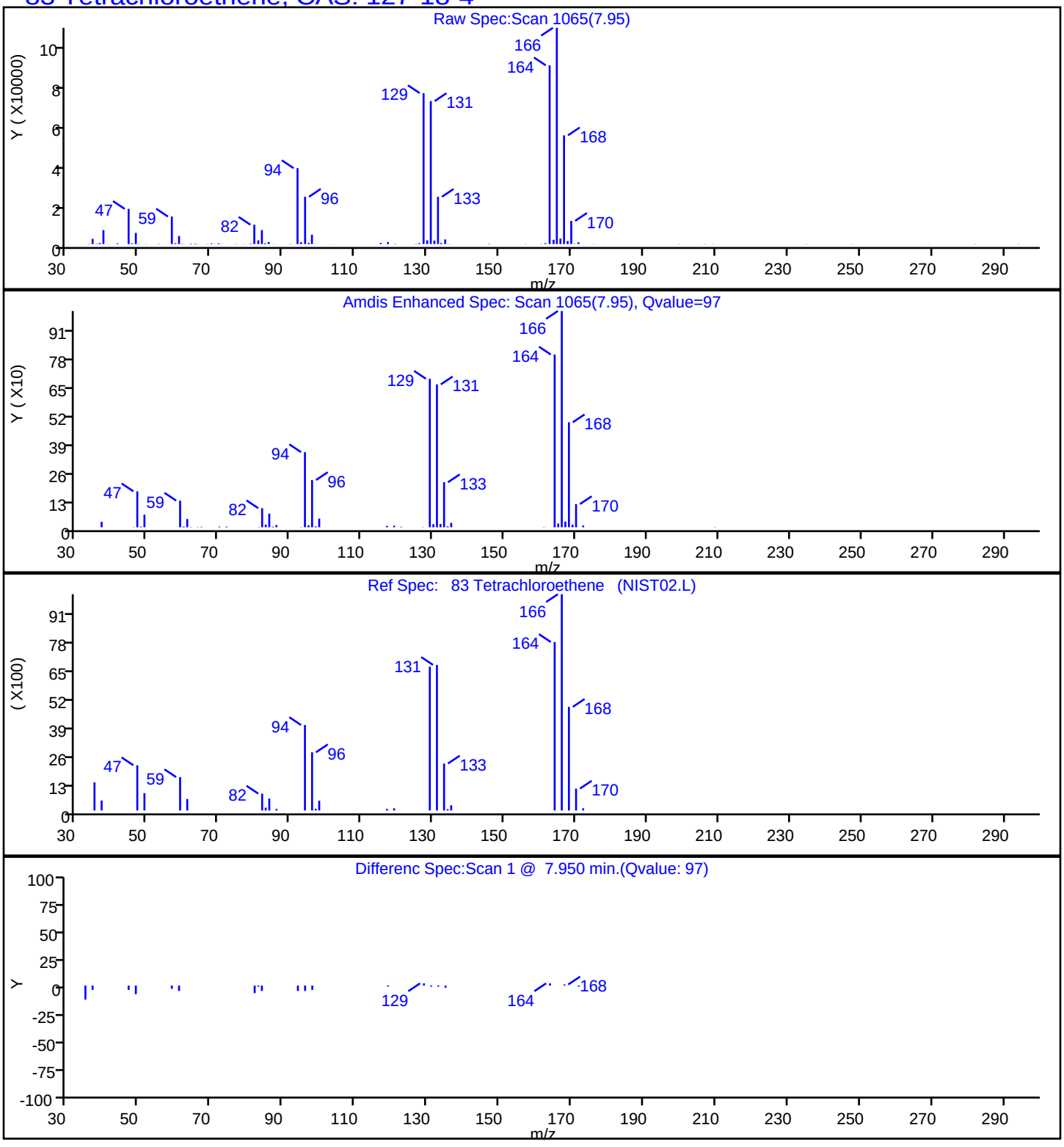
26 Methylene Chloride, CAS: 75-09-2



TestAmerica Edison

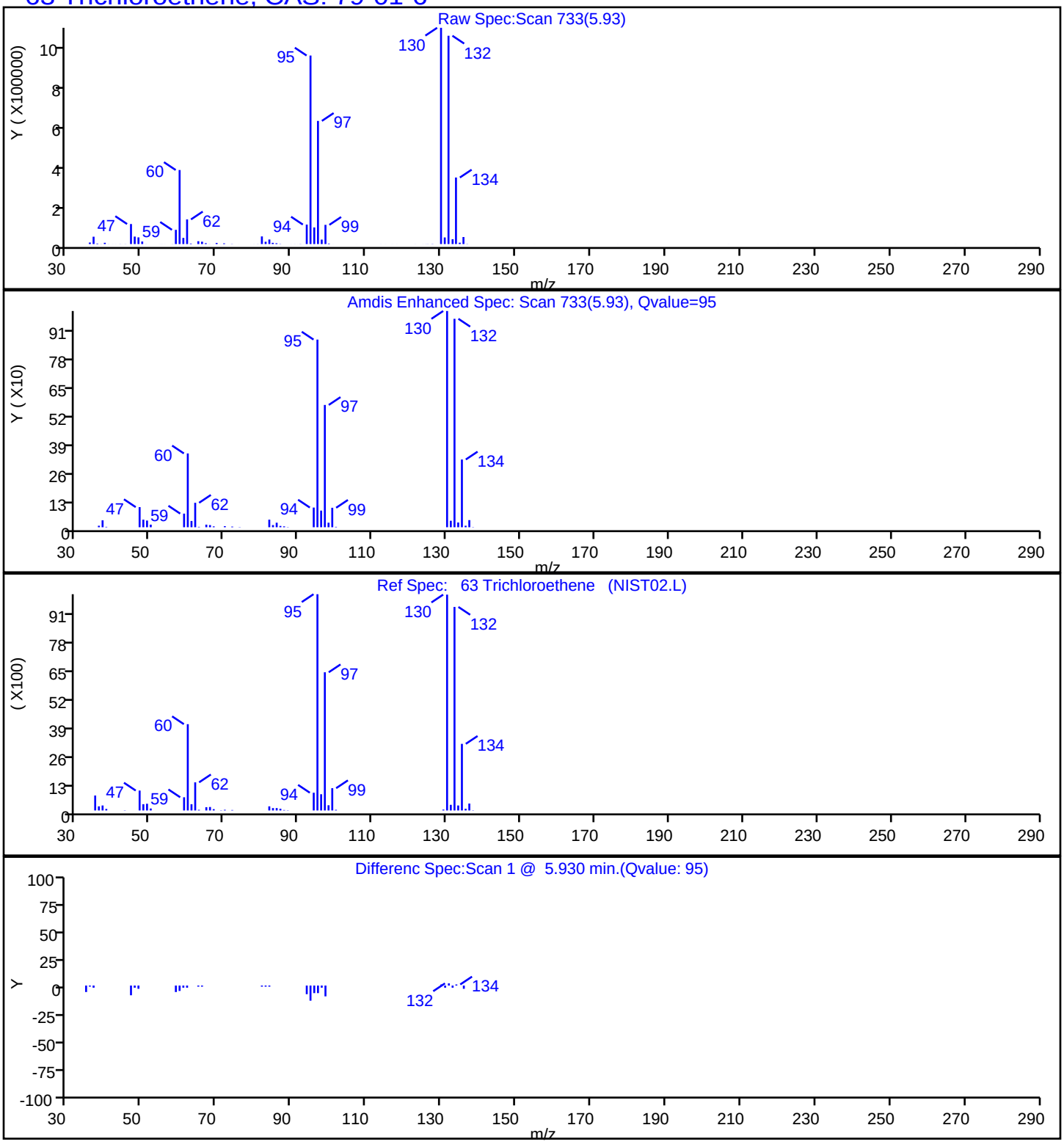
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

83 Tetrachloroethene, CAS: 127-18-4



Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D
Injection Date: 12-Jul-2018 02:14:30 Instrument ID: CVOAMS9
Lims ID: 460-159550-B-8-A Lab Sample ID: 460-159550-8
Client ID: PDI-20-SO-873-06292018
Operator ID: ALS Bottle#: 17 Worklist Smp#: 18
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

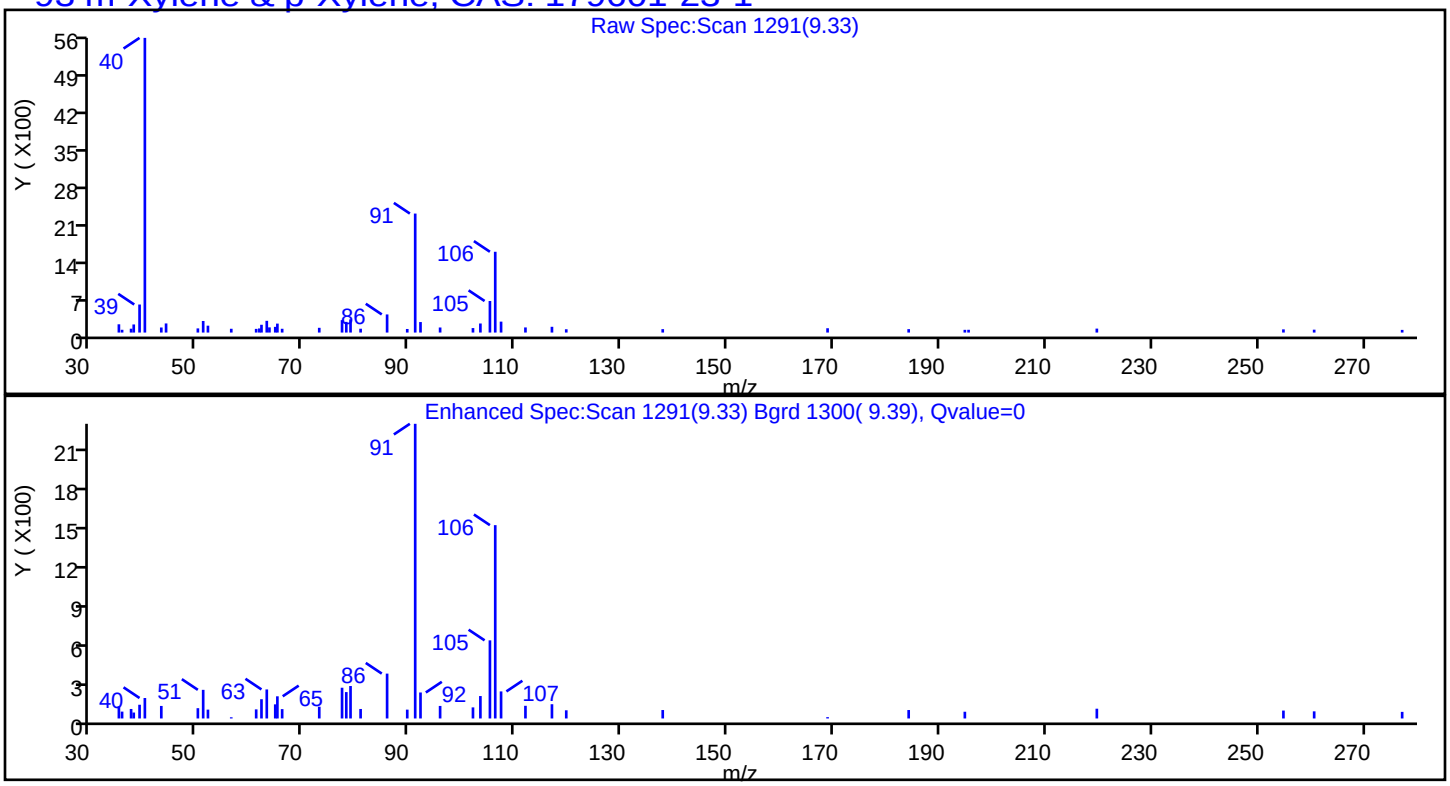
63 Trichloroethene, CAS: 79-01-6



TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D				
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8		
Client ID:	PDI-20-SO-873-06292018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

93 m-Xylene & p-Xylene, CAS: 179601-23-1



Manual Integration/User Assign Peak Report

TestAmerica Edison

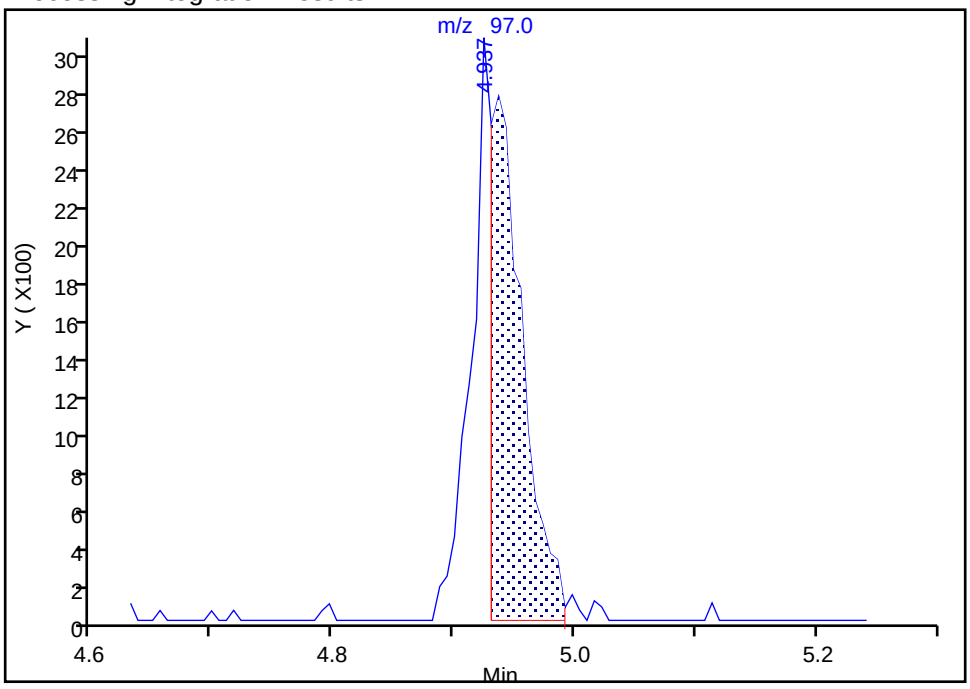
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D				
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8		
Client ID:	PDI-20-SO-873-06292018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

50 1,1,1-Trichloroethane, CAS: 71-55-6

Signal: 1

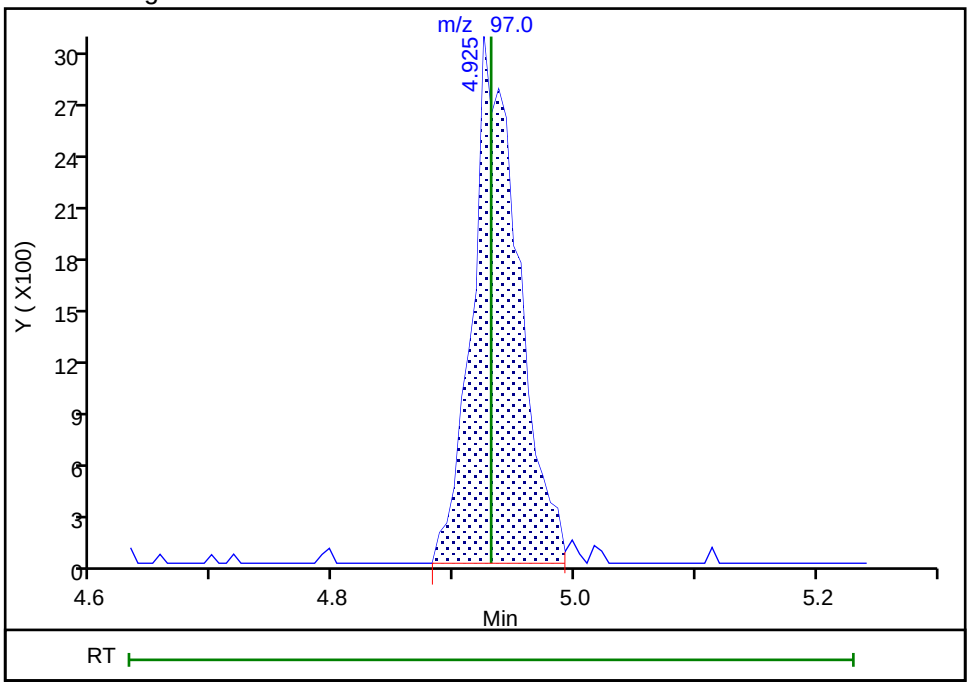
Processing Integration Results

RT: 4.94
Area: 5273
Amount: 0.757746
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 8090
Amount: 1.162557
Amount Units: ug/l



Reviewer: delpolitov, 16-Jul-2018 19:43:50

Audit Action: Manually Integrated Audit Reason: Baseline

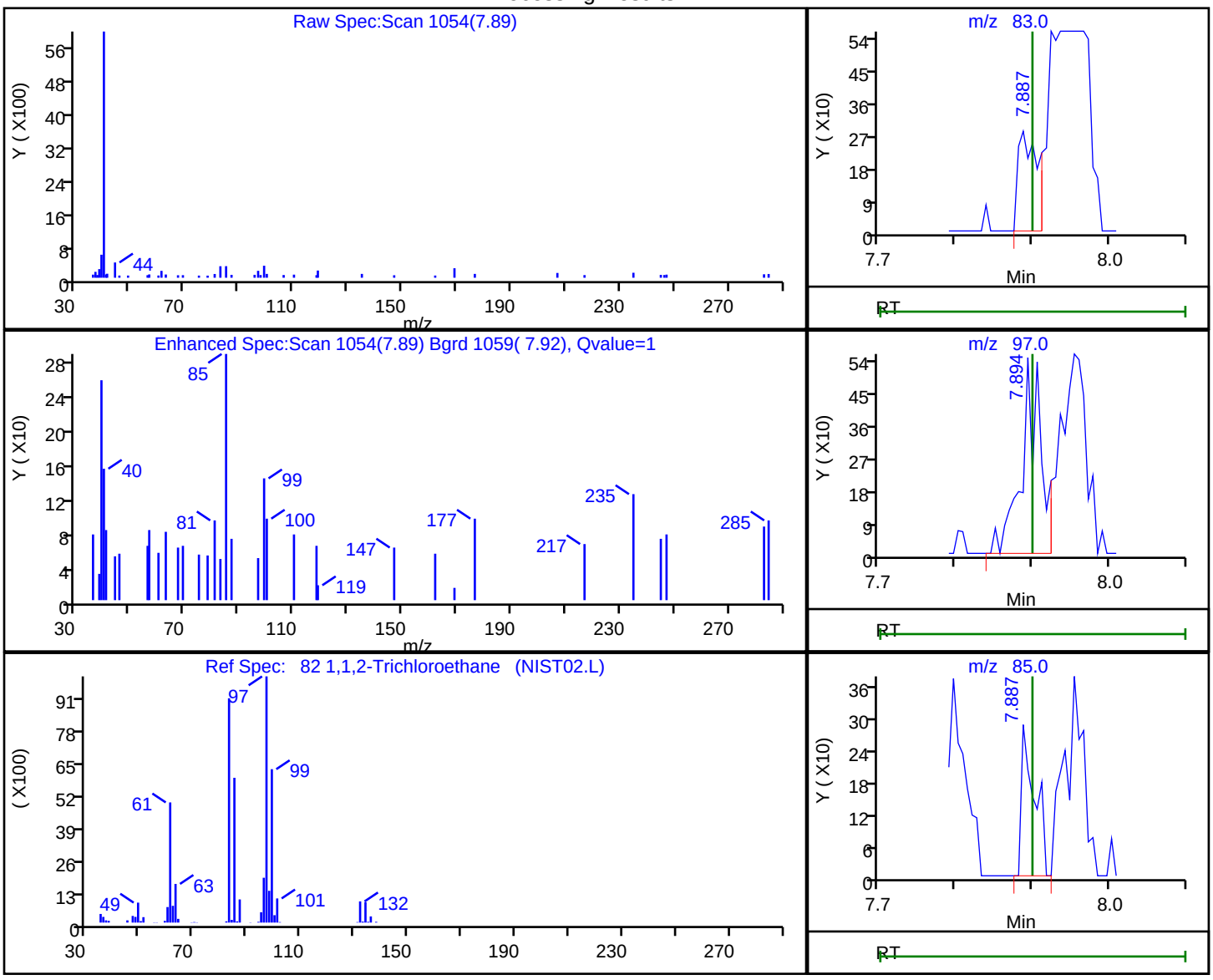
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

82 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
7.89	83.00	498	0.201718
7.89	97.00	960	
7.89	85.00	338	

Reviewer: tupayachia, 12-Jul-2018 10:05:48

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

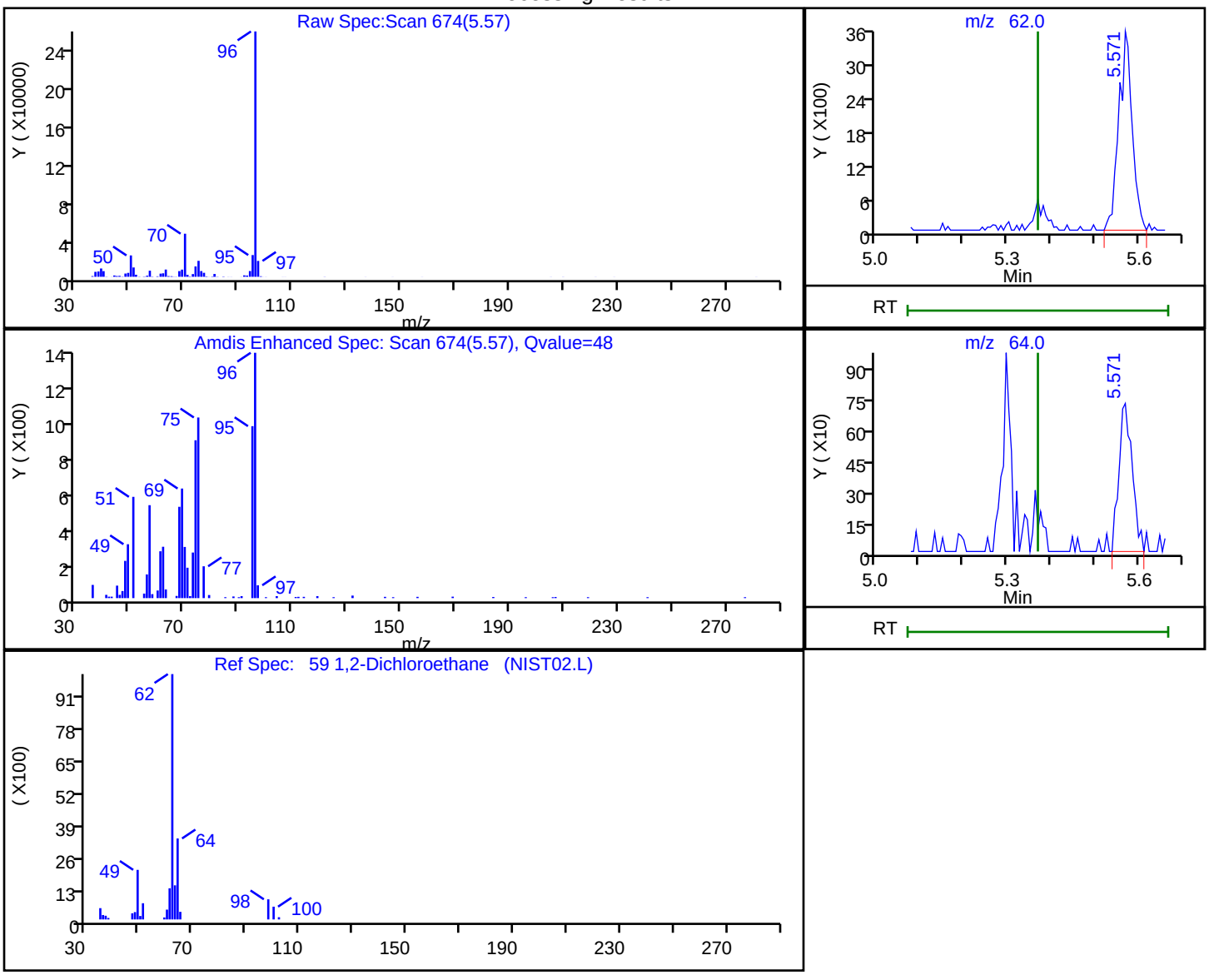
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

59 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.57	62.00	7638	1.476837
5.57	64.00	1548	

Reviewer: tupayachia, 12-Jul-2018 10:05:38

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

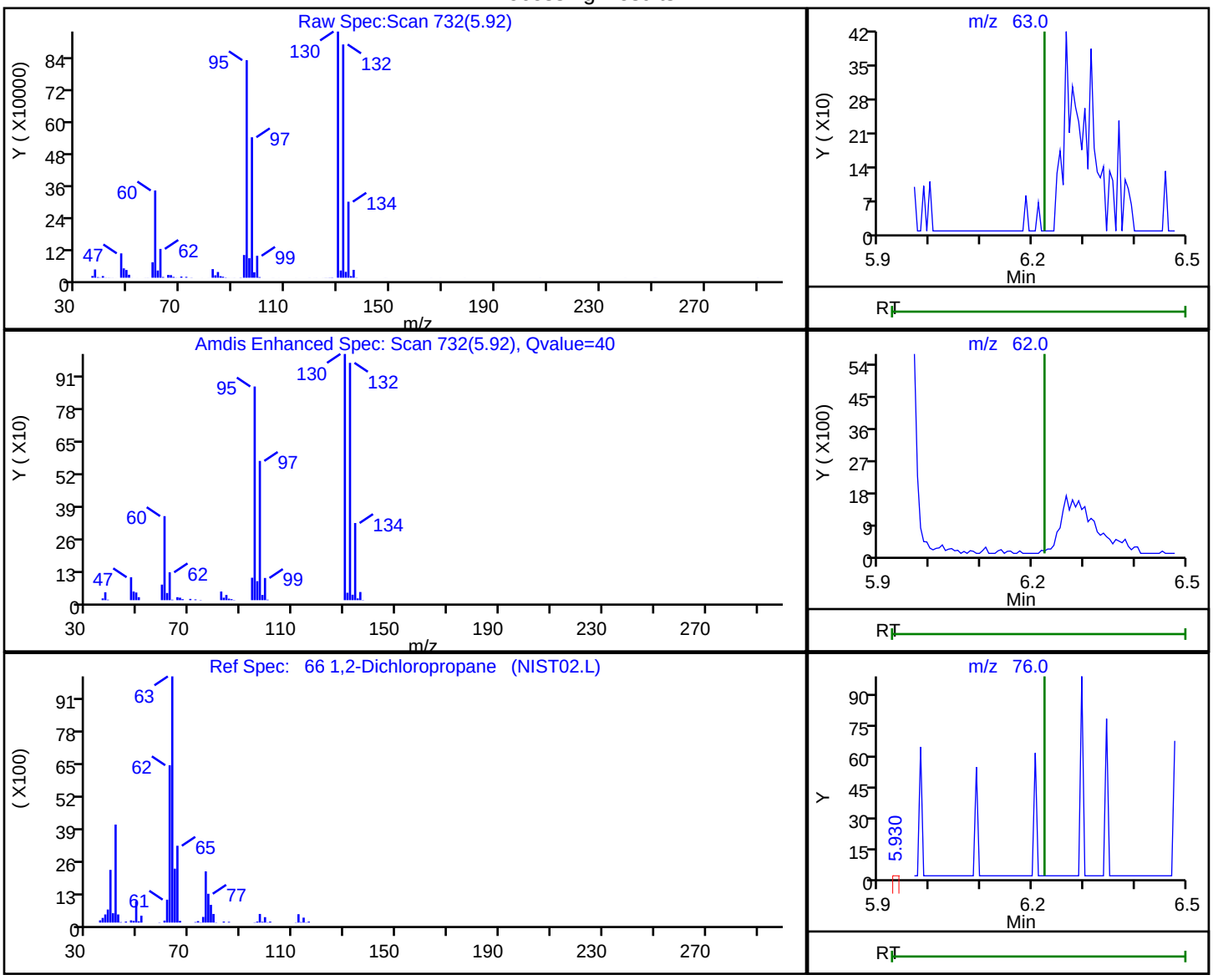
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

66 1,2-Dichloropropane, CAS: 78-87-5

Processing Results



RT	Mass	Response	Amount
5.92	63.00	5769	1.838091
5.93	62.00	257803	
5.93	76.00	21	
6.22	112.00	0	

Reviewer: tupayachia, 12-Jul-2018 10:05:46

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

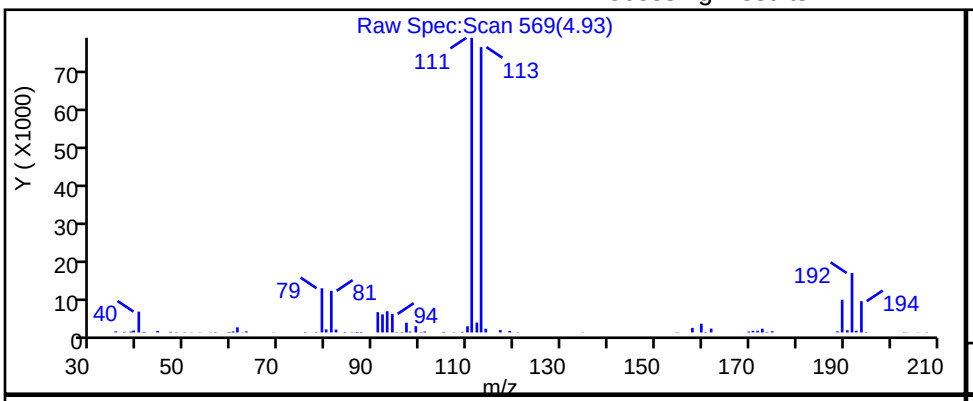
User Disabled Compound Report

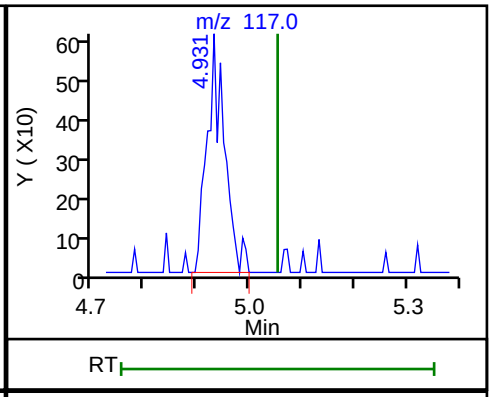
TestAmerica Edison

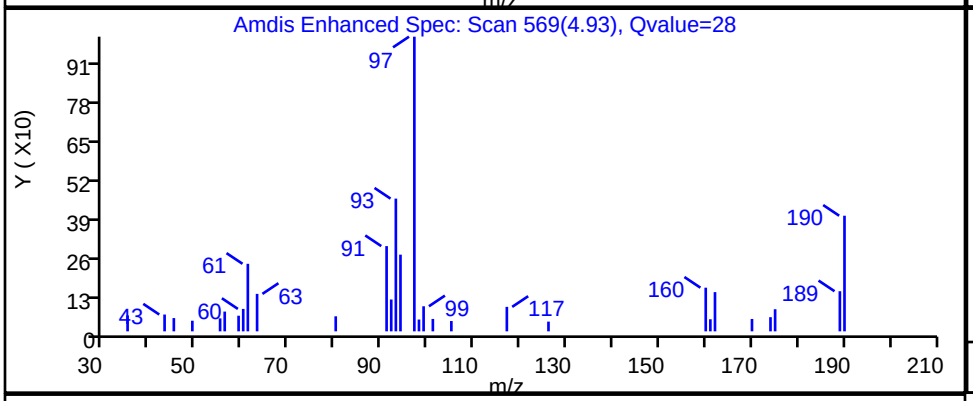
Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D				
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9		
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8		
Client ID:	PDI-20-SO-873-06292018				
Operator ID:		ALS Bottle#:	17	Worklist Smp#:	18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

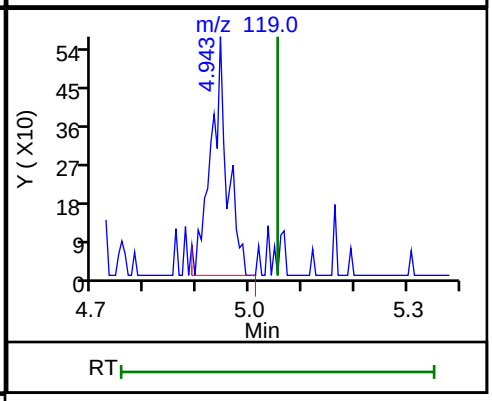
52 Carbon tetrachloride, CAS: 56-23-5

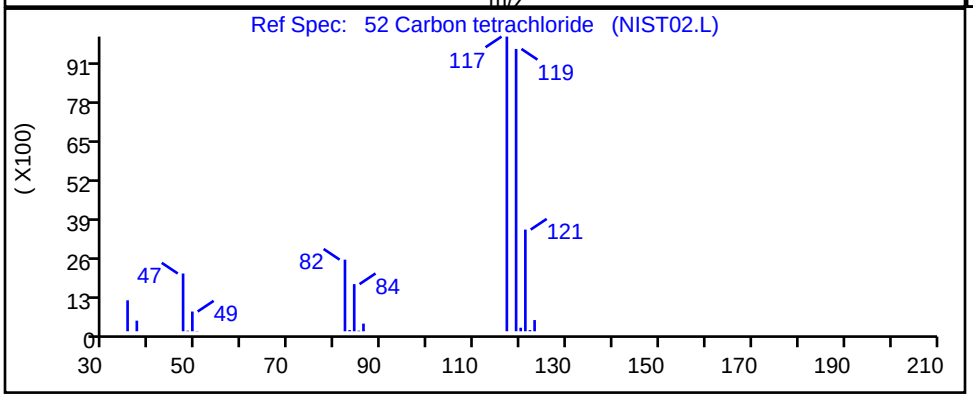
Processing Results











RT	Mass	Response	Amount
4.93	117.00	1429	0.231494
4.94	119.00	1242	

Reviewer: tupayachia, 12-Jul-2018 10:05:37

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

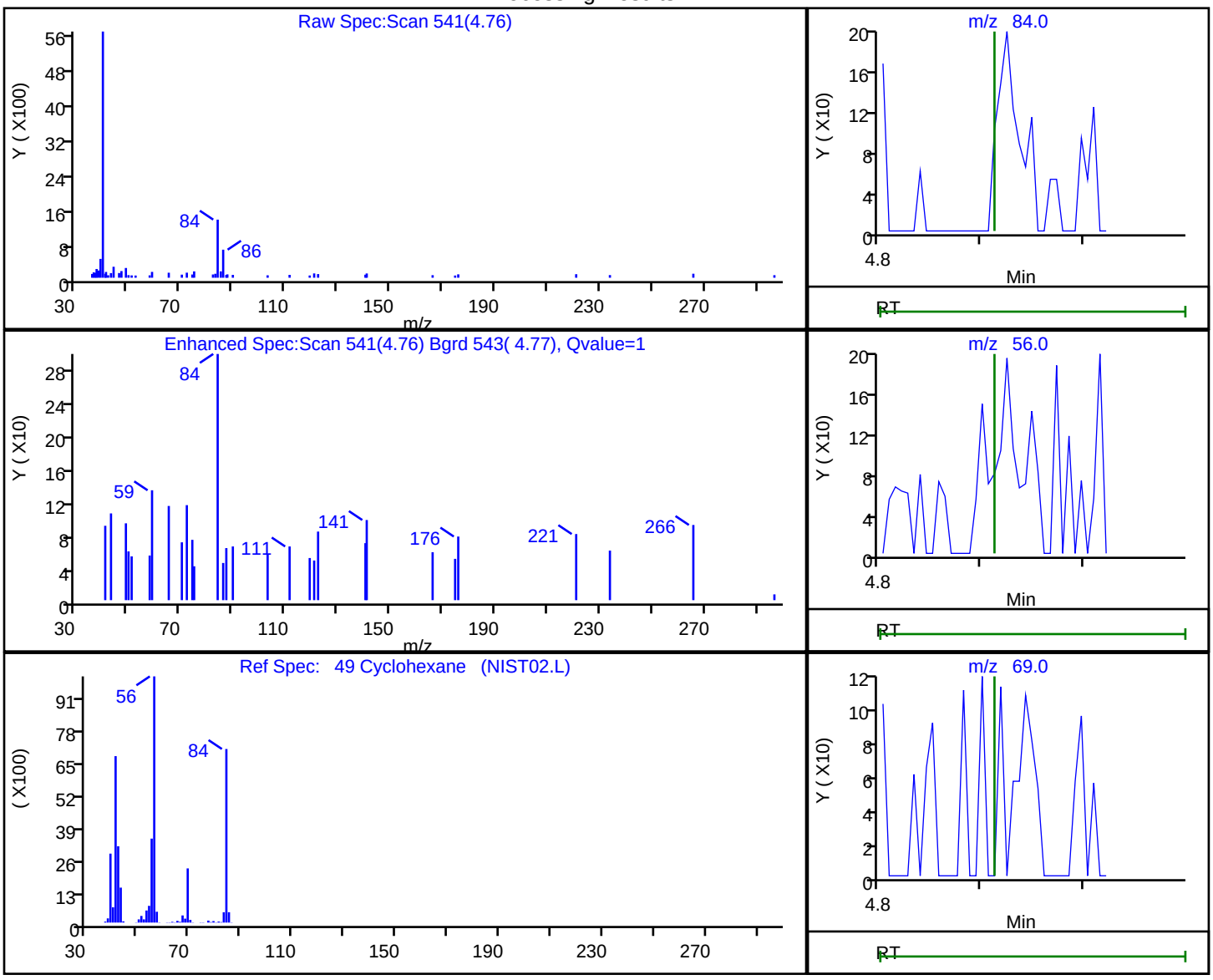
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

49 Cyclohexane, CAS: 110-82-7

Processing Results



RT	Mass	Response	Amount
4.76	84.00	1714	0.321682
4.75	56.00	85	
4.75	69.00	54	

Reviewer: tupayachia, 12-Jul-2018 10:05:33

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

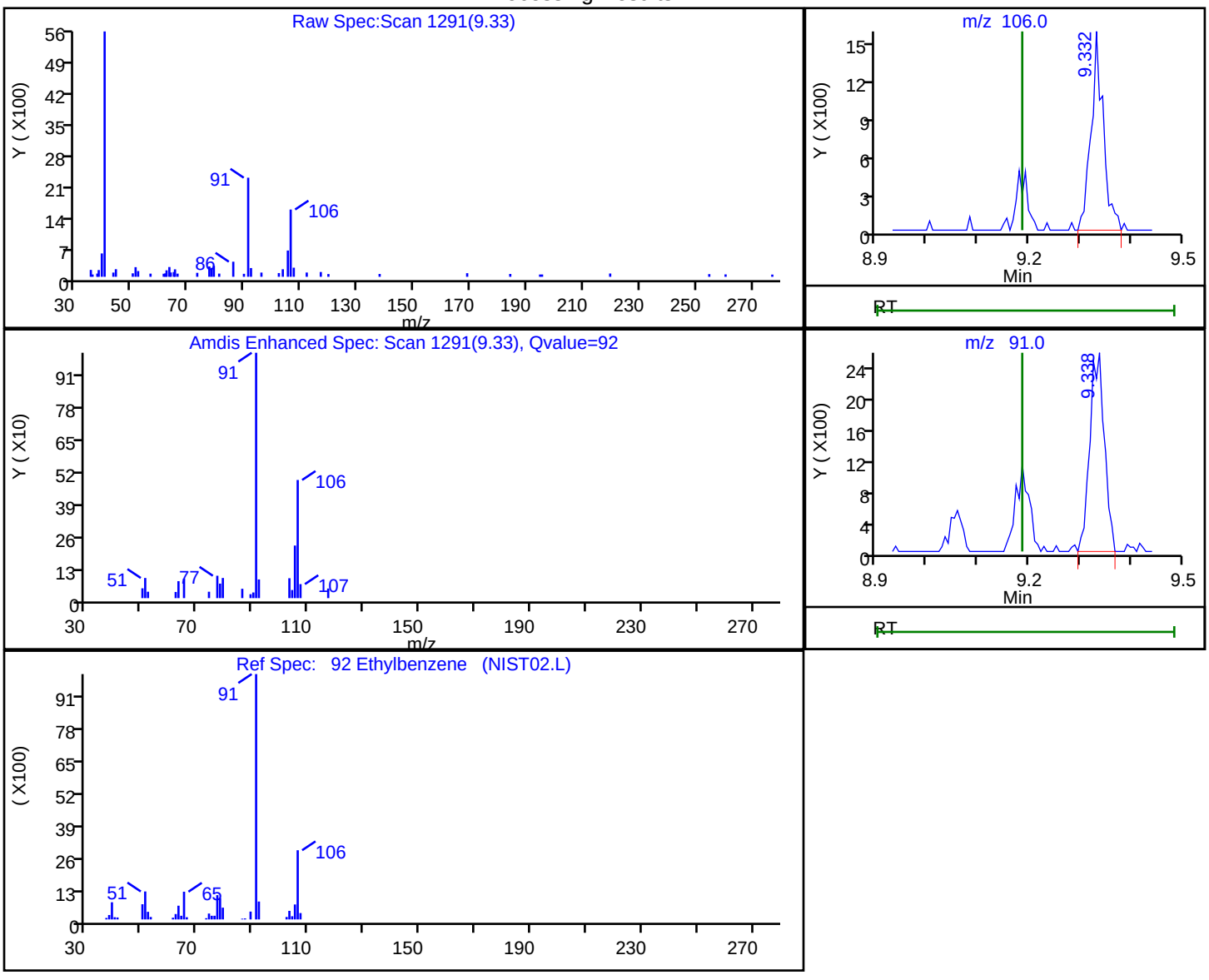
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

92 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
9.33	106.00	2546	0.416519
9.34	91.00	5126	

Reviewer: tupayachia, 12-Jul-2018 10:05:53

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

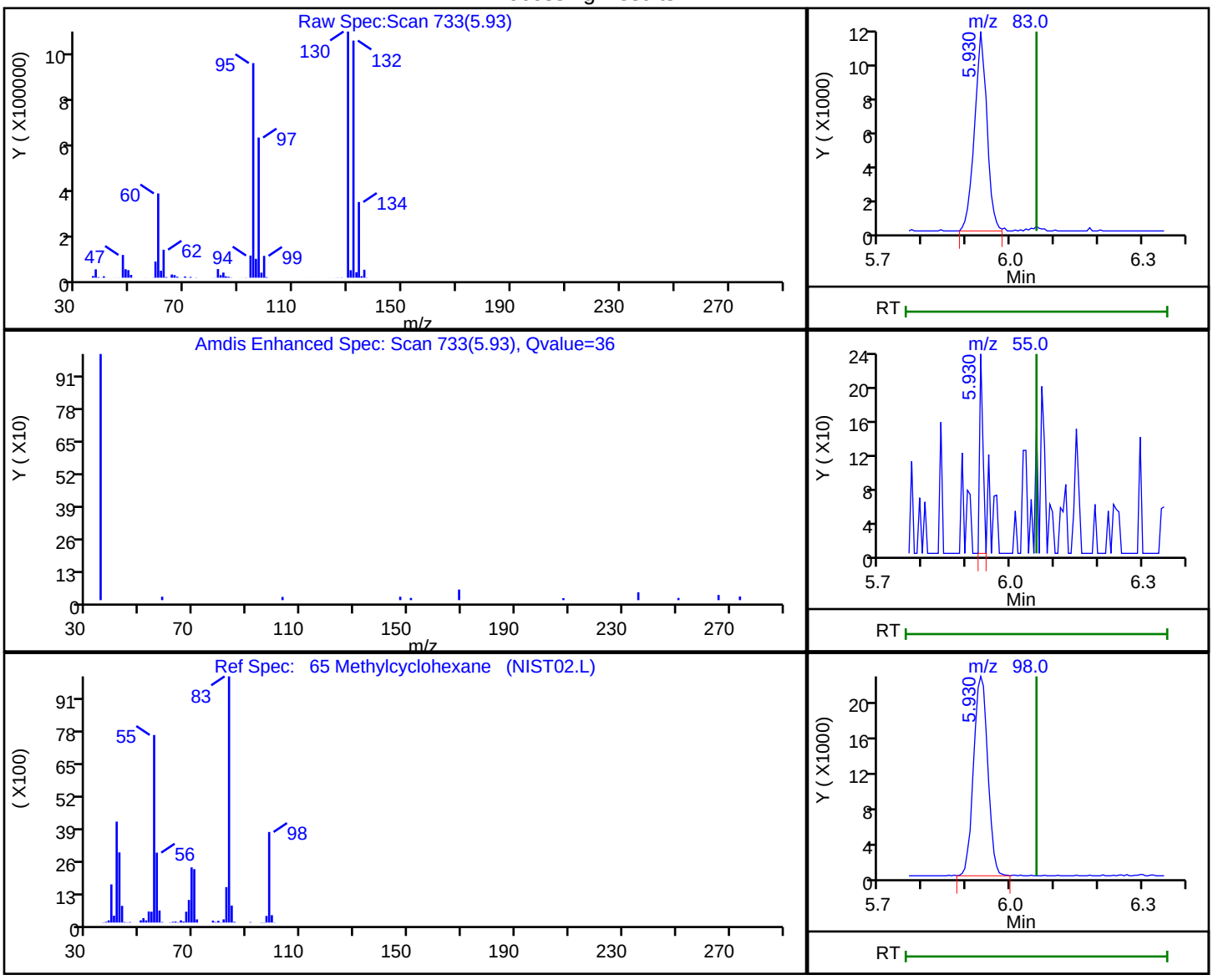
User Disabled Compound Report

TestAmerica Edison

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86458.D		
Injection Date:	12-Jul-2018 02:14:30	Instrument ID:	CVOAMS9
Lims ID:	460-159550-B-8-A	Lab Sample ID:	460-159550-8
Client ID:	PDI-20-SO-873-06292018		
Operator ID:		ALS Bottle#:	17 Worklist Smp#: 18
Purge Vol:	5.000 mL	Dil. Factor:	1.0000
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN

65 Methylcyclohexane, CAS: 108-87-2

Processing Results



RT	Mass	Response	Amount
5.93	83.00	22452	3.331224
5.93	55.00	128	
5.93	98.00	49996	

Reviewer: tupayachia, 12-Jul-2018 10:05:44

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-532718/4	A58066.D
Level 2	STD1 460-532718/15	A58077.D
Level 3	STD5 460-532718/6	A58068.D
Level 4	STD20 460-532718/7	A58069.D
Level 5	STD50 460-532718/8	A58070.D
Level 6	STD200 460-532718/9	A58071.D
Level 7	STD500 460-532718/10	A58072.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	+++++ 0.2067	0.1330 0.1831	0.1860	0.1794	0.1702	Ave		0.1764				13.8		20.0			
Dichlorodifluoromethane	+++++ 0.5172	0.4352 0.4604	0.5583	0.4882	0.5131	Ave		0.4954			0.1000	8.9		20.0			
Chloromethane	+++++ 0.6232	0.5956 0.5597	0.7806	0.6543	0.6326	Ave		0.6410			0.1000	11.8		20.0			
Vinyl chloride	+++++ 0.5455	0.5044 0.4932	0.6424	0.5706	0.5722	Ave		0.5547			0.1000	9.8		20.0			
Butadiene	0.4171 0.6101	0.6080 0.5564	0.7070	0.6230	0.6447	Ave		0.5952				15.2		20.0			
Bromomethane	+++++ 0.3078	0.3402 0.2627	0.4056	0.3410	0.3262	Ave		0.3306			0.1000	14.2		20.0			
Chloroethane	+++++ 0.3006	0.3685 0.2618	0.4200	0.3397	0.3256	Ave		0.3360			0.1000	16.3		20.0			
Pentane	+++++ 2.3401	2.3564 2.2595	2.6191	2.5114	2.2256	Ave		2.3853				6.4		20.0			
Dichlorofluoromethane	+++++ 0.7253	0.7963 0.6442	0.9165	0.8093	0.7741	Ave		0.7776				11.7		20.0			
Trichlorofluoromethane	+++++ 0.5381	0.5858 0.4903	0.6964	0.5697	0.5716	Ave		0.5753			0.1000	11.9		20.0			
Ethanol	+++++ 0.0484	0.0590 0.0426	0.0527	0.0722	0.0543	Ave		0.0549				18.5		20.0			
Ethyl ether	+++++ 0.3092	0.3357 0.2839	0.3609	0.3323	0.3150	Ave		0.3229				8.2		20.0			
2-Methyl-1,3-butadiene	+++++ 0.3404	0.3783 0.3251	0.4134	0.3753	0.3692	Ave		0.3669				8.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	+++++ 0.2508	0.2769 0.2273	0.3227	0.2808	0.2541	Ave		0.2688				12.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Acrolein	+++++ 1.8190	2.3248 1.8932	1.9889	2.2357	1.7583	Ave		2.0033				11.5		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	+++++ 0.2949	0.2826 0.2724	0.3645	0.3129	0.3019	Ave		0.3049			0.1000	10.7		20.0			
1,1-Dichloroethene	+++++ 0.2965	0.3423 0.2771	0.3638	0.3156	0.2986	Ave		0.3157			0.1000	10.2		20.0			
Acetone	+++++ 0.2051	0.2937 0.2124	0.3227	0.2597	0.2244	Ave		0.2530			0.0500	18.8		20.0			
Iodomethane	+++++ 0.5200	0.6307 0.4850	0.7271	0.5892	0.5310	Ave		0.5805				15.3		20.0			
Carbon disulfide	+++++ 1.1433	1.9311 1.1054	1.3832	1.2181	1.1241	Qua	0.5424	1.1594	-0.000110		0.1000				1.0000		0.9900
Isopropyl alcohol	+++++ 0.7753	0.8650 0.7084	0.8742	0.9464	0.7209	Ave		0.8150				11.6		20.0			
Allyl chloride	+++++ 0.2159	0.2416 0.2244	0.2329	0.2283	0.2263	Ave		0.2282				3.8		20.0			
Cyclopentene	+++++ 0.8832	0.9176 0.8590	1.0514	0.9757	0.9535	Ave		0.9401				7.4		20.0			
Methyl acetate	+++++ 0.3243	0.3487 0.3064	0.3924	0.3340	0.3120	Ave		0.3363			0.1000	9.3		20.0			
Acetonitrile	+++++ 1.1589	1.0627 1.1311	1.0123	1.3574	1.2595	Ave		1.1637				10.9		20.0			
Methylene Chloride	+++++ 0.4112	0.5234 0.3826	0.5063	0.4582	0.4288	Ave		0.4518			0.1000	12.2		20.0			
2-Methyl-2-propanol	+++++ 1.4049	1.9150 1.4312	1.6013	1.4570	1.3567	Ave		1.5277				13.5		20.0			
Methyl tert-butyl ether	+++++ 1.0654	1.0516 1.0202	1.1729	1.1134	1.0612	Ave		1.0808			0.1000	5.0		20.0			
trans-1,2-Dichloroethene	+++++ 0.3765	0.4202 0.3582	0.4403	0.3990	0.3836	Ave		0.3963			0.1000	7.6		20.0			
Acrylonitrile	0.1525 0.1583	0.2042 0.1606	0.1955	0.1752	0.1717	Ave		0.1740				11.2		20.0			
Hexane	+++++ 0.3800	0.3853 0.3519	0.3864	0.3663	0.3669	Ave		0.3728				3.6		20.0			
Isopropyl ether	+++++ 1.3757	1.3126 1.3048	1.4582	1.4171	1.3857	Ave		1.3757				4.3		20.0			
1,1-Dichloroethane	+++++ 0.7257	0.7691 0.6937	0.8462	0.7501	0.7383	Ave		0.7539			0.2000	6.9		20.0			
Vinyl acetate	+++++ 2.9053	1.7606 2.8344	2.6292	2.8646	2.5304	Lin2	-2.084	2.8092							0.9970		0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
2-Chloro-1,3-butadiene	+++++ 0.3271	0.3081 0.3196	0.3588	0.3348	0.3336	Ave		0.3303				5.2		20.0			
Tert-butyl ethyl ether	+++++ 1.1563	1.0145 1.1058	1.2188	1.1595	1.1443	Ave		1.1332				6.1		20.0			
2,2-Dichloropropane	+++++ 0.1233	0.1192 0.1195	0.1409	0.1305	0.1251	Ave		0.1264				6.5		20.0			
cis-1,2-Dichloroethene	+++++ 0.4243	0.4540 0.4093	0.4699	0.4360	0.4253	Ave		0.4365			0.1000	5.1		20.0			
Ethyl acetate	+++++ 0.2507	0.2481 0.2464	0.2739	0.2500	0.2345	Ave		0.2506				5.1		20.0			
2-Butanone (MEK)	+++++ 0.2874	0.3089 0.2830	0.3096	0.2950	0.2876	Ave		0.2953			0.0500	3.9		20.0			
Methyl acrylate	+++++ 0.3506	0.3689 0.3474	0.3316	0.3392	0.3060	Ave		0.3406				6.2		20.0			
Propionitrile	+++++ 2.2860	2.0746 2.2415	2.2453	2.2937	2.0776	Ave		2.2031				4.6		20.0			
Chlorobromomethane	+++++ 0.2036	0.2174 0.1944	0.2375	0.2140	0.2087	Ave		0.2126				6.9		20.0			
Tetrahydrofuran	+++++ 0.3372	0.3344 0.3328	0.3785	0.3411	0.3413	Ave		0.3442				5.0		20.0			
Methacrylonitrile	+++++ 0.1673	0.1516 0.1631	0.1625	0.1608	0.1546	Ave		0.1600				3.6		20.0			
Chloroform	+++++ 0.6716	0.6713 0.6394	0.7725	0.6918	0.6779	Ave		0.6874			0.2000	6.6		20.0			
Cyclohexane	+++++ 0.7061	0.5951 0.6712	0.6990	0.6868	0.6796	Ave		0.6730			0.1000	6.0		20.0			
1,1,1-Trichloroethane	+++++ 0.5470	0.5013 0.5229	0.5985	0.5649	0.5454	Ave		0.5467			0.1000	6.1		20.0			
Carbon tetrachloride	+++++ 0.4526	0.4078 0.4330	0.4793	0.4531	0.4413	Ave		0.4445			0.1000	5.4		20.0			
1,1-Dichloropropene	+++++ 0.5380	0.4944 0.5203	0.5422	0.5089	0.5052	Ave		0.5182				3.7		20.0			
Isobutyl alcohol	+++++ 1.0610	0.7354 1.1256	0.9776	0.9886	0.8643	Ave		0.9587				14.6		20.0			
2,2,4-Trimethylpentane	+++++ 1.4047	1.1139 1.4048	1.3089	1.3727	1.3873	Ave		1.3320				8.5		20.0			
Benzene	+++++ 2.2596	2.0613 2.0498	2.5458	2.1421	2.2447	Ave		2.2172			0.5000	8.3		20.0			
Isopropyl acetate	+++++ 1.3774	0.9943 1.2831	1.2961	1.2167	1.2537	Ave		1.2369				10.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-amyl methyl ether	+++++ 0.3445	0.2894 0.3266	0.3341	0.3214	0.3244	Ave		0.3234				5.8		20.0			
1,2-Dichloroethane	+++++ 0.5408	0.6014 0.5101	0.6121	0.5545	0.5317	Ave		0.5585			0.1000	7.2		20.0			
n-Heptane	+++++ 0.3380	0.2746 0.3097	0.2924	0.2971	0.3046	Ave		0.3027				7.0		20.0			
n-Butanol	+++++ 0.3395	0.2513 +++++	0.2225	0.2700	0.2506	Ave		0.2668				16.5		20.0			
Trichloroethene	+++++ 0.3767	0.3379 0.3775	0.3700	0.3583	0.3486	Ave		0.3615			0.2000	4.4		20.0			
Ethyl acrylate	+++++ 0.2789	0.2132 0.2760	0.2507	0.2434	0.2495	Ave		0.2520				9.5		20.0			
Methylcyclohexane	+++++ 0.6402	0.4793 0.6268	0.5974	0.6039	0.6078	Ave		0.5926			0.1000	9.7		20.0			
1,2-Dichloropropane	+++++ 0.4039	0.3786 0.4005	0.4031	0.3854	0.3735	Ave		0.3908			0.1000	3.4		20.0			
Methyl methacrylate	+++++ 0.0914	0.0623 0.0945	0.0768	0.0827	0.0780	Ave		0.0809				14.3		20.0			
n-Propyl acetate	+++++ 0.5925	0.5057 0.5985	0.4918	0.5432	0.5004	Ave		0.5387				8.8		20.0			
1,4-Dioxane	+++++ 1.7859	1.0023 1.4193	1.4601	1.4202	1.2943	Ave		1.3970				18.2		20.0			
Dibromomethane	+++++ 0.2413	0.2519 0.2410	0.2431	0.2332	0.2238	Ave		0.2391				4.0		20.0			
Bromodichloromethane	+++++ 0.4995	0.4052 0.5064	0.4771	0.4601	0.4429	Ave		0.4652			0.2000	8.1		20.0			
2-Chloroethyl vinyl ether	+++++ 0.2305	0.1804 0.2503	0.1799	0.2123	0.1866	Ave		0.2067				14.2		20.0			
2-Nitropropane	+++++ 0.0982	0.1132 0.0989	0.0865	0.0913	0.0841	Ave		0.0954				11.1		20.0			
Epichlorohydrin	0.1787 0.2500	0.2152 0.2563	0.2368	0.2533	0.2301	Ave		0.2315				11.9		20.0			
cis-1,3-Dichloropropene	+++++ 0.8440	0.7000 0.8373	0.6648	0.7228	0.7043	Ave		0.7455			0.2000	10.2		20.0			
4-Methyl-2-pentanone (MIBK)	+++++ 3.0861	2.0925 3.0017	2.7997	2.8488	2.9247	Ave		2.7923			0.0500	12.8		20.0			
Toluene	+++++ 2.1905	1.9800 2.1038	2.1708	2.0012	2.0554	Ave		2.0836			0.4000	4.2		20.0			
trans-1,3-Dichloropropene	+++++ 0.7034	0.6725 0.7275	0.5733	0.6272	0.5859	Ave		0.6483			0.1000	9.7		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
Ethyl methacrylate	+++++ 0.4681	0.2821 +++++	0.3869	0.4148	0.4002	Ave		0.3904				17.4		20.0			
1,1,2-Trichloroethane	+++++ 0.3805	0.3785 0.3778	0.3952	0.3731	0.3568	Ave		0.3770			0.1000	3.3		20.0			
Tetrachloroethene	+++++ 0.5161	0.4534 0.4909	0.5577	0.4892	0.4938	Ave		0.5002			0.2000	6.9		20.0			
1,3-Dichloropropane	+++++ 0.7494	0.7217 0.7510	0.7260	0.7148	0.6702	Ave		0.7222				4.1		20.0			
2-Hexanone	+++++ 1.7921	1.3207 1.8237	1.6560	1.8126	1.6732	Ave		1.6797			0.0500	11.3		20.0			
n-Butyl acetate	+++++ 0.1361	0.1029 0.1297	0.1282	0.1249	0.1234	Ave		0.1242				9.1		20.0			
Dibromochloromethane	+++++ 0.4482	0.3889 0.4472	0.4201	0.4071	0.3869	Ave		0.4164			0.1000	6.5		20.0			
1,2-Dibromoethane	+++++ 0.4198	0.4528 0.4132	0.4138	0.4226	0.3876	Ave		0.4183			0.1000	5.0		20.0			
Chlorobenzene	+++++ 1.3417	1.2877 1.3305	1.3841	1.3337	1.2533	Ave		1.3218			0.5000	3.4		20.0			
Ethylbenzene	+++++ 0.7561	0.6240 0.7239	0.7567	0.7011	0.7158	Ave		0.7129			0.1000	6.9		20.0			
1,1,1,2-Tetrachloroethane	+++++ 0.5181	0.4377 0.4778	0.4973	0.4806	0.4905	Ave		0.4837				5.5		20.0			
m-Xylene & p-Xylene	+++++ 0.9377	0.7130 0.8792	0.8843	0.8844	0.8866	Ave		0.8642			0.1000	8.9		20.0			
n-Butyl acrylate	+++++ 0.4084	0.2740 0.3884	0.3546	0.3505	0.3716	Ave		0.3579				13.0		20.0			
o-Xylene	+++++ 0.9647	0.7108 0.8984	0.9032	0.9069	0.9340	Ave		0.8863			0.3000	10.1		20.0			
Styrene	+++++ 1.6209	1.1816 1.5564	1.5070	1.5174	1.5028	Ave		1.4810			0.3000	10.3		20.0			
Amyl acetate (mixed isomers)	+++++ 2.1140	1.4402 2.3876	1.7507	1.8073	1.8586	Ave		1.8931				17.2		20.0			
Bromoform	+++++ 0.2808	0.2444 0.2730	0.2600	0.2583	0.2449	Ave		0.2602			0.1000	5.6		20.0			
Isopropylbenzene	+++++ 2.5807	1.8538 2.3631	2.3873	2.3624	2.4557	Ave		2.3338			0.1000	10.7		20.0			
Bromobenzene	+++++ 1.0174	0.9857 1.1757	1.0036	0.9726	0.9384	Ave		1.0156				8.2		20.0			
1,1,2,2-Tetrachloroethane	+++++ 1.1688	0.9741 1.3541	1.1472	1.1078	1.0663	Ave		1.1364			0.3000	11.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
N-Propylbenzene	+++++ 5.2256	3.9553 5.5407	4.7045	4.7086	4.6916	Ave		4.8044				11.3		20.0			
1,2,3-Trichloropropane	+++++ 0.3179	0.2508 0.3445	0.3344	0.3084	0.2966	Ave		0.3088				10.8		20.0			
trans-1,4-Dichloro-2-butene	+++++ 0.2260	0.3975 0.2806	0.1293	0.1662	0.1570	QuaF		0.1832	0.0001952						1.0000		0.9900
4-Ethyltoluene	+++++ 4.3925	3.1490 4.7257	4.0924	3.9923	3.9068	Ave		4.0431				13.1		20.0			
2-Chlorotoluene	+++++ 3.6609	2.9239 4.1026	3.3293	3.3389	3.3133	Ave		3.4448				11.6		20.0			
1,3,5-Trimethylbenzene	+++++ 3.7386	2.4830 4.0230	3.2162	3.3950	3.3765	Ave		3.3720				15.5		20.0			
4-Chlorotoluene	+++++ 3.1174	2.5931 3.3876	2.9231	2.9092	2.8330	Ave		2.9605				9.1		20.0			
Butyl Methacrylate	+++++ 1.4450	0.7453 +++++	1.1026	1.1647	1.2446	Lin2	-0.554	1.2818							0.9930		0.9900
tert-Butylbenzene	+++++ 3.1741	2.0327 3.3385	2.4523	2.6802	2.7734	Ave		2.7419				17.4		20.0			
1,2,4-Trimethylbenzene	+++++ 3.8851	2.5671 4.1429	3.3674	3.5000	3.5225	Ave		3.4975				15.4		20.0			
sec-Butylbenzene	+++++ 4.8418	3.2561 5.0351	3.9982	4.1909	4.3004	Ave		4.2704				14.9		20.0			
4-Isopropyltoluene	+++++ 4.1772	2.6200 4.2872	3.5280	3.7034	3.7565	Ave		3.6787				16.2		20.0			
1,3-Dichlorobenzene	+++++ 2.1447	1.9828 2.1206	2.1363	2.0916	2.0347	Ave		2.0851			0.6000	3.1		20.0			
1,4-Dichlorobenzene	+++++ 2.2110	2.1475 2.1445	2.2726	2.1506	2.0840	Ave		2.1684			0.5000	3.0		20.0			
1,2,3-Trimethylbenzene	+++++ 4.1881	3.0080 4.3993	3.8081	3.7917	3.8086	Ave		3.8340				12.4		20.0			
Benzyl chloride	+++++ 2.2229	1.4523 2.4317	1.7156	1.7890	1.8712	Ave		1.9138				18.6		20.0			
Indan	+++++ 4.3737	3.3263 4.3207	4.2555	4.1431	4.1346	Ave		4.0923				9.5		20.0			
p-Diethylbenzene	+++++ 2.5024	1.9112 2.3439	2.4356	2.4756	2.4736	Ave		2.3571				9.6		20.0			
n-Butylbenzene	+++++ 2.3123	1.7685 2.2525	2.0849	2.1398	2.1272	Ave		2.1142				9.0		20.0			
1,2-Dichlorobenzene	+++++ 2.1200	1.9130 1.9910	2.1573	2.0502	2.0521	Ave		2.0473			0.4000	4.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4,5-Tetramethylbenzene	+++++ 4.0499	2.6684 4.1228	3.0777	3.4402	3.6680	Ave		3.5045				16.1		20.0			
1,2-Dibromo-3-Chloropropane	+++++ 0.2258	0.1906 0.2582	0.2090	0.1863	0.1997	Ave		0.2116			0.0500	12.7		20.0			
1,3,5-Trichlorobenzene	+++++ 1.5435	1.5333 1.5375	1.6211	1.5494	1.5754	Ave		1.5600				2.1		20.0			
1,2,4-Trichlorobenzene	+++++ 1.3147	1.5478 1.3734	1.3371	1.3203	1.3839	Ave		1.3795			0.2000	6.3		20.0			
Hexachlorobutadiene	+++++ 0.5525	0.8300 +++++	0.6466	0.6039	0.6108	Ave		0.6487				16.4		20.0			
Naphthalene	+++++ 3.4161	3.3621 3.7826	2.8756	3.0396	3.3977	Ave		3.3123				9.6		20.0			
1,2,3-Trichlorobenzene	+++++ 1.1494	1.5061 1.1595	1.2011	1.1535	1.2225	Ave		1.2320				11.2		20.0			
Dibromofluoromethane (Surr)	0.3005 0.2946	0.2673 0.2797	0.3102	0.2943	0.2972	Ave		0.2920				4.9		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3657 0.3965	0.3337 0.4108	0.3881	0.3735	0.3752	Ave		0.3776				6.5		20.0			
Toluene-d8 (Surr)	1.3937 1.5340	1.2661 1.4495	1.4510	1.4161	1.4714	Ave		1.4260				5.8		20.0			
4-Bromofluorobenzene	0.4443 0.4520	0.3982 0.4130	0.4864	0.4802	0.4646	Ave		0.4484				7.3		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD7 460-532718/4	A58066.D
Level 2	STD1 460-532718/15	A58077.D
Level 3	STD5 460-532718/6	A58068.D
Level 4	STD20 460-532718/7	A58069.D
Level 5	STD50 460-532718/8	A58070.D
Level 6	STD200 460-532718/9	A58071.D
Level 7	STD500 460-532718/10	A58072.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	+++++ 377309	1369 934407	6711	27335	67801	+++++ 200	1.00 500	5.00	20.0	50.0
Dichlorodifluoromethane	FB	Ave	+++++ 944249	4479 2349397	20140	74395	204430	+++++ 200	1.00 500	5.00	20.0	50.0
Chloromethane	FB	Ave	+++++ 1137744	6130 2855732	28161	99711	252012	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl chloride	FB	Ave	+++++ 995855	5191 2516596	23174	86961	227971	+++++ 200	1.00 500	5.00	20.0	50.0
Butadiene	FB	Ave	830 1113802	6257 2838958	25506	94946	256862	0.250 200	1.00 500	5.00	20.0	50.0
Bromomethane	FB	Ave	+++++ 561895	3501 1340580	14631	51963	129960	+++++ 200	1.00 500	5.00	20.0	50.0
Chloroethane	FB	Ave	+++++ 548676	3793 1335874	15154	51769	129713	+++++ 200	1.00 500	5.00	20.0	50.0
Pentane	TBAd9	Ave	+++++ 220958	1495 581648	5428	20068	49459	+++++ 400	2.00 1000	10.0	40.0	100
Dichlorofluoromethane	FB	Ave	+++++ 1324077	8195 3287145	33064	123338	308390	+++++ 200	1.00 500	5.00	20.0	50.0
Trichlorofluoromethane	FB	Ave	+++++ 982245	6029 2501728	25123	86813	227735	+++++ 200	1.00 500	5.00	20.0	50.0
Ethanol	TBAd9	Ave	+++++ 91337	749 219422	2186	11542	24137	+++++ 8000	40.0 20000	200	800	2000
Ethyl ether	FB	Ave	+++++ 564536	3455 1448824	13021	50644	125510	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-1,3-butadiene	FB	Ave	+++++ 621438	3893 1658663	14914	57198	147081	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	+++++ 457756	2850 1159857	11643	42791	101244	+++++ 200	1.00 500	5.00	20.0	50.0
Acrolein	TBAd9	Ave	+++++ 85876	2950 194944	8244	17865	39074	+++++ 200	4.00 400	20.0	40.0	100

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	+++++ 538326	2908 1389803	13151	47683	120282	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethene	FB	Ave	+++++ 541267	3523 1413992	13124	48095	118971	+++++ 200	1.00 500	5.00	20.0	50.0
Acetone	BUT	Ave	+++++ 273368	2202 814135	7939	28149	61999	+++++ 1000	5.00 2500	25.0	100	250
Iodomethane	FB	Ave	+++++ 949210	6491 2474765	26230	89785	211546	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon disulfide	FB	Qua	+++++ 2087082	19875 5639989	49902	185632	447858	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl alcohol	TBAd9	Ave	+++++ 366042	2744 911780	9059	37811	80105	+++++ 2000	10.0 5000	50.0	200	500
Allyl chloride	FB	Ave	+++++ 394110	2486 1144766	8404	34793	90154	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclopentene	FB	Ave	+++++ 1612275	9444 4382915	37932	148695	379872	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl acetate	FB	Ave	+++++ 1184190	7178 3127023	28312	101799	248588	+++++ 400	2.00 1000	10.0	40.0	100
Acetonitrile	TBAd9	Ave	+++++ 547157	3371 1455834	10490	54235	139942	+++++ 2000	10.0 5000	50.0	200	500
Methylene Chloride	FB	Ave	+++++ 750672	5387 1952306	18265	69833	170847	+++++ 200	1.00 500	5.00	20.0	50.0
2-Methyl-2-propanol	TBAd9	Ave	+++++ 663274	6075 1842170	16593	58211	150748	+++++ 2000	10.0 5000	50.0	200	500
Methyl tert-butyl ether	FB	Ave	+++++ 1944910	10823 5205438	42313	169673	422769	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,2-Dichloroethene	FB	Ave	+++++ 687272	4325 1827680	15884	60813	152835	+++++ 200	1.00 500	5.00	20.0	50.0
Acrylonitrile	FB	Ave	2428 2889171	21015 8194829	70542	267016	683947	2.00 2000	10.0 5000	50.0	200	500
Hexane	FB	Ave	+++++ 693759	3965 1795314	13940	55826	146160	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl ether	FB	Ave	+++++ 2511440	13509 6657413	52607	215966	552072	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloroethane	FB	Ave	+++++ 1324873	7915 3539503	30528	114319	294151	+++++ 200	1.00 500	5.00	20.0	50.0
Vinyl acetate	TBAd9	Lin2	+++++ 274326	1117 729640	5449	22890	56232	+++++ 400	2.00 1000	10.0	40.0	100
2-Chloro-1,3-butadiene	FB	Ave	+++++ 597181	3171 1630967	12946	51021	132897	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-butyl ethyl ether	FB	Ave	+++++ 2110937	10441 5642178	43971	176701	455867	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2,2-Dichloropropane	FB	Ave	+++++ 225154	1227 609802	5085	19883	49851	+++++ 200	1.00 500	5.00	20.0	50.0
cis-1,2-Dichloroethene	FB	Ave	+++++ 774539	4672 2088448	16953	66443	169445	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acetate	BUT	Ave	+++++ 133637	744 377830	2695	10839	25922	+++++ 400	2.00 1000	10.0	40.0	100
2-Butanone (MEK)	BUT	Ave	+++++ 382981	2316 1085118	7617	31966	79471	+++++ 1000	5.00 2500	25.0	100	250
Methyl acrylate	FB	Ave	+++++ 640123	3797 1772639	11963	51697	121900	+++++ 200	1.00 500	5.00	20.0	50.0
Propionitrile	TBAd9	Ave	+++++ 1079279	6581 2885137	23267	91642	230843	+++++ 2000	10.0 5000	50.0	200	500
Chlorobromomethane	FB	Ave	+++++ 371736	2237 992062	8567	32606	83155	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrahydrofuran	BUT	Ave	+++++ 179723	1003 510421	3725	14788	37726	+++++ 400	2.00 1000	10.0	40.0	100
Methacrylonitrile	FB	Ave	+++++ 3054796	15602 8323087	58614	245069	615825	+++++ 2000	10.0 5000	50.0	200	500
Chloroform	FB	Ave	+++++ 1226064	6909 3262655	27868	105433	270061	+++++ 200	1.00 500	5.00	20.0	50.0
Cyclohexane	FB	Ave	+++++ 1288972	6125 3424928	25217	104658	270739	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1-Trichloroethane	FB	Ave	+++++ 998544	5159 2668222	21592	86082	217277	+++++ 200	1.00 500	5.00	20.0	50.0
Carbon tetrachloride	FB	Ave	+++++ 826301	4197 2209234	17292	69044	175814	+++++ 200	1.00 500	5.00	20.0	50.0
1,1-Dichloropropene	FB	Ave	+++++ 982066	5088 2655036	19561	77559	201272	+++++ 200	1.00 500	5.00	20.0	50.0
Isobutyl alcohol	TBAd9	Ave	+++++ 1252304	5832 3621903	25326	98749	240072	+++++ 5000	25.0 12500	125	500	1250
2,2,4-Trimethylpentane	FB	Ave	+++++ 2564255	11464 7167869	47220	209187	552698	+++++ 200	1.00 500	5.00	20.0	50.0
Benzene	CBNZd5	Ave	+++++ 2813722	13299 7704647	59331	230479	587513	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropyl acetate	FB	Ave	+++++ 2514586	10233 6546804	46760	185421	499465	+++++ 200	1.00 500	5.00	20.0	50.0
Tert-amyl methyl ether	FB	Ave	+++++ 628936	2978 1666223	12053	48975	129244	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloroethane	FB	Ave	+++++ 987325	6190 2602941	22083	84501	211829	+++++ 200	1.00 500	5.00	20.0	50.0
n-Heptane	FB	Ave	+++++ 617024	2826 1580223	10550	45271	121363	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
n-Butanol	TBAd9	Ave	+++++ 400669	1993 +++++	5764	26966	69607	+++++ 5000	25.0 +++++	125	500	1250
Trichloroethene	FB	Ave	+++++ 687660	3478 1926365	13350	54605	138874	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl acrylate	FB	Ave	+++++ 509167	2194 1408420	9045	37099	99390	+++++ 200	1.00 500	5.00	20.0	50.0
Methylcyclohexane	FB	Ave	+++++ 1168776	4933 3198205	21553	92031	242147	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichloropropane	FB	Ave	+++++ 737345	3896 2043634	14544	58730	148811	+++++ 200	1.00 500	5.00	20.0	50.0
Methyl methacrylate	FB	Ave	+++++ 333792	1282 964360	5539	25193	62189	+++++ 400	2.00 1000	10.0	40.0	100
n-Propyl acetate	FB	Ave	+++++ 1081552	5205 3053635	17742	82787	199354	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dioxane	DXE	Ave	+++++ 132102	1293 372559	2693	11382	27502	+++++ 4000	50.0 10000	100	400	1000
Dibromomethane	FB	Ave	+++++ 440475	2593 1229695	8769	35546	89158	+++++ 200	1.00 500	5.00	20.0	50.0
Bromodichloromethane	FB	Ave	+++++ 911805	4170 2584081	17212	70112	176432	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chloroethyl vinyl ether	FB	Ave	+++++ 420805	1857 1276907	6489	32355	74337	+++++ 200	1.00 500	5.00	20.0	50.0
2-Nitropropane	FB	Ave	+++++ 358541	2331 1009543	6241	27829	67003	+++++ 400	2.00 1000	10.0	40.0	100
Epichlorohydrin	BUT	Ave	913 1332505	6454 3930665	23299	109783	254354	5.00 4000	20.0 10000	100	400	1000
cis-1,3-Dichloropropene	CBNZd5	Ave	+++++ 1050981	4516 3147302	15493	77766	184337	+++++ 200	1.00 500	5.00	20.0	50.0
4-Methyl-2-pentanone (MIBK)	BUT	Ave	+++++ 4112350	15689 11507851	68879	308729	808116	+++++ 1000	5.00 2500	25.0	100	250
Toluene	CBNZd5	Ave	+++++ 2727624	12774 7907846	50591	215322	537966	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,3-Dichloropropene	CBNZd5	Ave	+++++ 875862	4339 2734689	13361	67483	153343	+++++ 200	1.00 500	5.00	20.0	50.0
Ethyl methacrylate	FB	Ave	+++++ 854468	2903 +++++	13959	63213	159436	+++++ 200	1.00 +++++	5.00	20.0	50.0
1,1,2-Trichloroethane	CBNZd5	Ave	+++++ 473864	2442 1420068	9210	40146	93393	+++++ 200	1.00 500	5.00	20.0	50.0
Tetrachloroethene	CBNZd5	Ave	+++++ 642633	2925 1845335	12997	52638	129236	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichloropropane	CBNZd5	Ave	+++++ 933200	4656 2823024	16919	76907	175418	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
2-Hexanone	BUT	Ave	+++++ 2387999	9902 6991473	40741	196429	462309	+++++ 1000	5.00 2500	25.0	100	250
n-Butyl acetate	CBNZ d5	Ave	+++++ 169441	664 487339	2987	13440	32307	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromochloromethane	CBNZ d5	Ave	+++++ 558099	2509 1680774	9790	43801	101274	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromoethane	CBNZ d5	Ave	+++++ 522747	2921 1553217	9644	45468	101436	+++++ 200	1.00 500	5.00	20.0	50.0
Chlorobenzene	CBNZ d5	Ave	+++++ 1670679	8308 5001130	32256	143499	328018	+++++ 200	1.00 500	5.00	20.0	50.0
Ethylbenzene	CBNZ d5	Ave	+++++ 941557	4026 2721079	17635	75432	187347	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	+++++ 645169	2824 1796060	11590	51714	128380	+++++ 200	1.00 500	5.00	20.0	50.0
m-Xylene & p-Xylene	CBNZ d5	Ave	+++++ 1167682	4600 3304561	20609	95155	232048	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butyl acrylate	CBNZ d5	Ave	+++++ 508490	1768 1459751	8265	37711	97266	+++++ 200	1.00 500	5.00	20.0	50.0
o-Xylene	CBNZ d5	Ave	+++++ 1201260	4586 3376849	21049	97574	244462	+++++ 200	1.00 500	5.00	20.0	50.0
Styrene	CBNZ d5	Ave	+++++ 2018418	7623 5850042	35122	163270	393328	+++++ 200	1.00 500	5.00	20.0	50.0
Amyl acetate (mixed isomers)	DCBd 4	Ave	+++++ 1592599	5834 4355674	26872	123235	309147	+++++ 200	1.00 500	5.00	20.0	50.0
Bromoform	CBNZ d5	Ave	+++++ 349617	1577 1026312	6059	27791	64106	+++++ 200	1.00 500	5.00	20.0	50.0
Isopropylbenzene	CBNZ d5	Ave	+++++ 3213581	11960 8882212	55637	254183	642722	+++++ 200	1.00 500	5.00	20.0	50.0
Bromobenzene	DCBd 4	Ave	+++++ 766466	3993 2144759	15405	66322	156091	+++++ 200	1.00 500	5.00	20.0	50.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	+++++ 880535	3946 2470332	17609	75535	177361	+++++ 200	1.00 500	5.00	20.0	50.0
N-Propylbenzene	DCBd 4	Ave	+++++ 3936765	16022 10107697	72209	321069	780382	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trichloropropane	DCBd 4	Ave	+++++ 239471	1016 628377	5133	21031	49331	+++++ 200	1.00 500	5.00	20.0	50.0
trans-1,4-Dichloro-2-butene	DCBd 4	QuaF	+++++ 170233	1610 511813	1985	11330	26117	+++++ 200	1.00 500	5.00	20.0	50.0
4-Ethyltoluene	DCBd 4	Ave	+++++ 3309156	12756 8621050	62814	272228	649837	+++++ 200	1.00 500	5.00	20.0	50.0
2-Chlorotoluene	DCBd 4	Ave	+++++ 2758024	11844 7484216	51102	227673	551125	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,3,5-Trimethylbenzene	DCBd 4	Ave	+++++ 2816543	10058 7339053	49366	231495	561633	+++++ 200	1.00 500	5.00	20.0	50.0
4-Chlorotoluene	DCBd 4	Ave	+++++ 2348513	10504 6179954	44866	198373	471226	+++++ 200	1.00 500	5.00	20.0	50.0
Butyl Methacrylate	DCBd 4	Lin2	+++++ 1088630	3019 +++++	16924	79418	207028	+++++ 200	1.00 +++++	5.00	20.0	50.0
tert-Butylbenzene	DCBd 4	Ave	+++++ 2391229	8234 6090396	37641	182759	461314	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	+++++ 2926888	10399 7557770	51686	238660	585912	+++++ 200	1.00 500	5.00	20.0	50.0
sec-Butylbenzene	DCBd 4	Ave	+++++ 3647688	13190 9185463	61368	285768	715305	+++++ 200	1.00 500	5.00	20.0	50.0
4-Isopropyltoluene	DCBd 4	Ave	+++++ 3146935	10613 7821092	54152	252529	624848	+++++ 200	1.00 500	5.00	20.0	50.0
1,3-Dichlorobenzene	DCBd 4	Ave	+++++ 1615777	8032 3868499	32790	142619	338438	+++++ 200	1.00 500	5.00	20.0	50.0
1,4-Dichlorobenzene	DCBd 4	Ave	+++++ 1665712	8699 3912257	34882	146645	346648	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,3-Trimethylbenzene	DCBd 4	Ave	+++++ 3155217	12185 8025506	58451	258550	633500	+++++ 200	1.00 500	5.00	20.0	50.0
Benzyl chloride	DCBd 4	Ave	+++++ 1674625	5883 4436073	26333	121987	311253	+++++ 200	1.00 500	5.00	20.0	50.0
Indan	DCBd 4	Ave	+++++ 3295007	13474 7882239	65317	282510	687731	+++++ 200	1.00 500	5.00	20.0	50.0
p-Diethylbenzene	DCBd 4	Ave	+++++ 1885253	7742 4275993	37384	168806	411447	+++++ 200	1.00 500	5.00	20.0	50.0
n-Butylbenzene	DCBd 4	Ave	+++++ 1741985	7164 4109181	32001	145907	353830	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dichlorobenzene	DCBd 4	Ave	+++++ 1597156	7749 3632135	33112	139801	341340	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	+++++ 3051073	10809 7521167	47240	234582	610123	+++++ 200	1.00 500	5.00	20.0	50.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	+++++ 170125	772 471116	3208	12701	33219	+++++ 200	1.00 500	5.00	20.0	50.0
1,3,5-Trichlorobenzene	DCBd 4	Ave	+++++ 1162844	6211 2804806	24883	105648	262048	+++++ 200	1.00 500	5.00	20.0	50.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	+++++ 990443	6270 2505530	20523	90031	230186	+++++ 200	1.00 500	5.00	20.0	50.0
Hexachlorobutadiene	DCBd 4	Ave	+++++ 416269	3362 +++++	9924	41177	101599	+++++ 200	1.00 +++++	5.00	20.0	50.0
Naphthalene	DCBd 4	Ave	+++++ 2573567	13619 6900492	44137	207263	565163	+++++ 200	1.00 500	5.00	20.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 532718

SDG No.:

Instrument ID: CVOAMS1 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/02/2018 06:22 Calibration End Date: 07/02/2018 11:35 Calibration ID: 69773

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3	LVL 4	LVL 5
1,2,3-Trichlorobenzene	DCBd 4	Ave	+++++ 865910	6101 2115296	18436	78655	203342	+++++ 200	1.00 500	5.00	20.0	50.0
Dibromofluoromethane (Surr)	FB	Ave	119600 134448	137538 142701	111913	112114	118391	50.0 50.0	50.0 50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	145550 180961	171716 209595	140006	142306	149485	50.0 50.0	50.0 50.0	50.0	50.0	50.0
Toluene-d8 (Surr)	CBNZ d5	Ave	350162 477533	408414 544836	338155	380927	385120	50.0 50.0	50.0 50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	111621 140698	128459 155234	113347	129169	121590	50.0 50.0	50.0 50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Lin2 = Linear 1/conc^2 ISTD
Qua = Quadratic ISTD
QuaF = Quadratic ISTD forced zero

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 02-Jul-2018 06:22:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD7
Misc. Info.: 460-0074723-004
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:45:18 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:36:50

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
6 Butadiene	39	1.854	1.842	0.012	58	830	0.2500	0.1752	
* 28 TBA-d9 (IS)	65	3.335	3.311	0.024	0	207962	1000.0	1000.0	
32 Acrylonitrile	53	3.573	3.567	0.006	83	2428	2.00	1.75	
* 39 2-Butanone-d5	46	4.298	4.286	0.012	0	255486	250.0	250.0	
$ 52 Dibromofluoromethane (Surr	113	4.683	4.676	0.006	96	119600	50.0	51.5	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	145550	50.0	48.4	
* 64 Fluorobenzene	96	5.164	5.158	0.006	98	397979	50.0	50.0	
* 71 1,4-Dioxane-d8	96	5.695	5.688	0.006	0	17584	1000.0	1000.0	
78 Epichlorohydrin	57	6.225	6.225	0.000	94	913	5.00	3.86	
$ 81 Toluene-d8 (Surr)	98	6.493	6.487	0.006	98	350162	50.0	48.9	
* 92 Chlorobenzene-d5	117	7.658	7.658	0.000	87	251244	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	96	111621	50.0	49.5	
* 119 1,4-Dichlorobenzene-d4	152	9.060	9.066	-0.006	96	156062	50.0	50.0	

Reagents:

ACRY/EPIH MIX_00051	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	0.00	Units: uL	
14DIOXINTER_00085	Amount Added:	0.00	Units: uL	
MIX I Hi_00095	Amount Added:	0.00	Units: uL	
GAS Hi_00261	Amount Added:	0.00	Units: uL	
GASES Li_00266	Amount Added:	2.50	Units: uL	
ACROLEIN W_00078	Amount Added:	0.00	Units: uL	
Ethanol mix_00017	Amount Added:	0.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

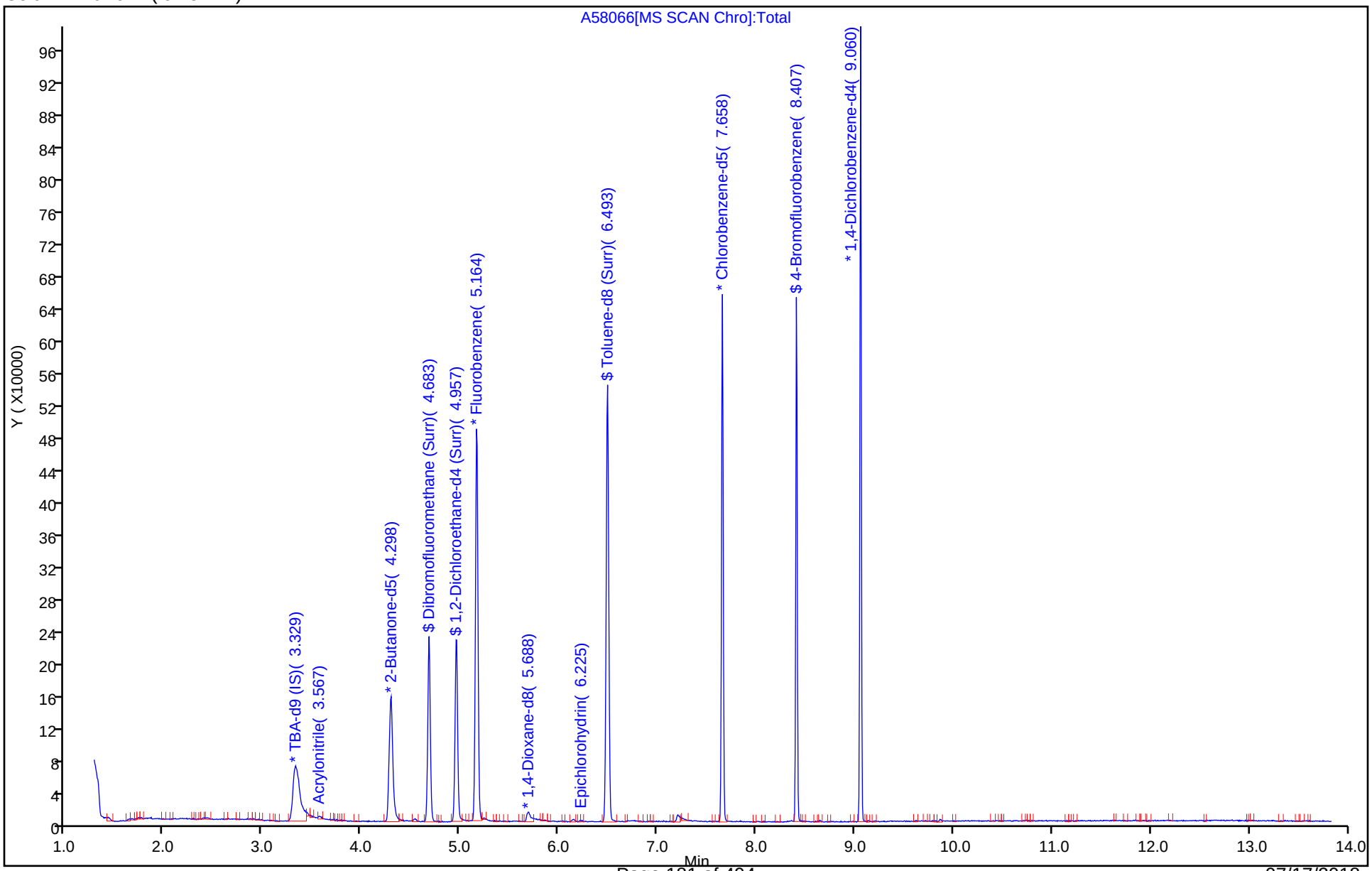
Report Date: 06-Jul-2018 11:45:27 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D

Injection Date:	02-Jul-2018 06:22:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD7			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



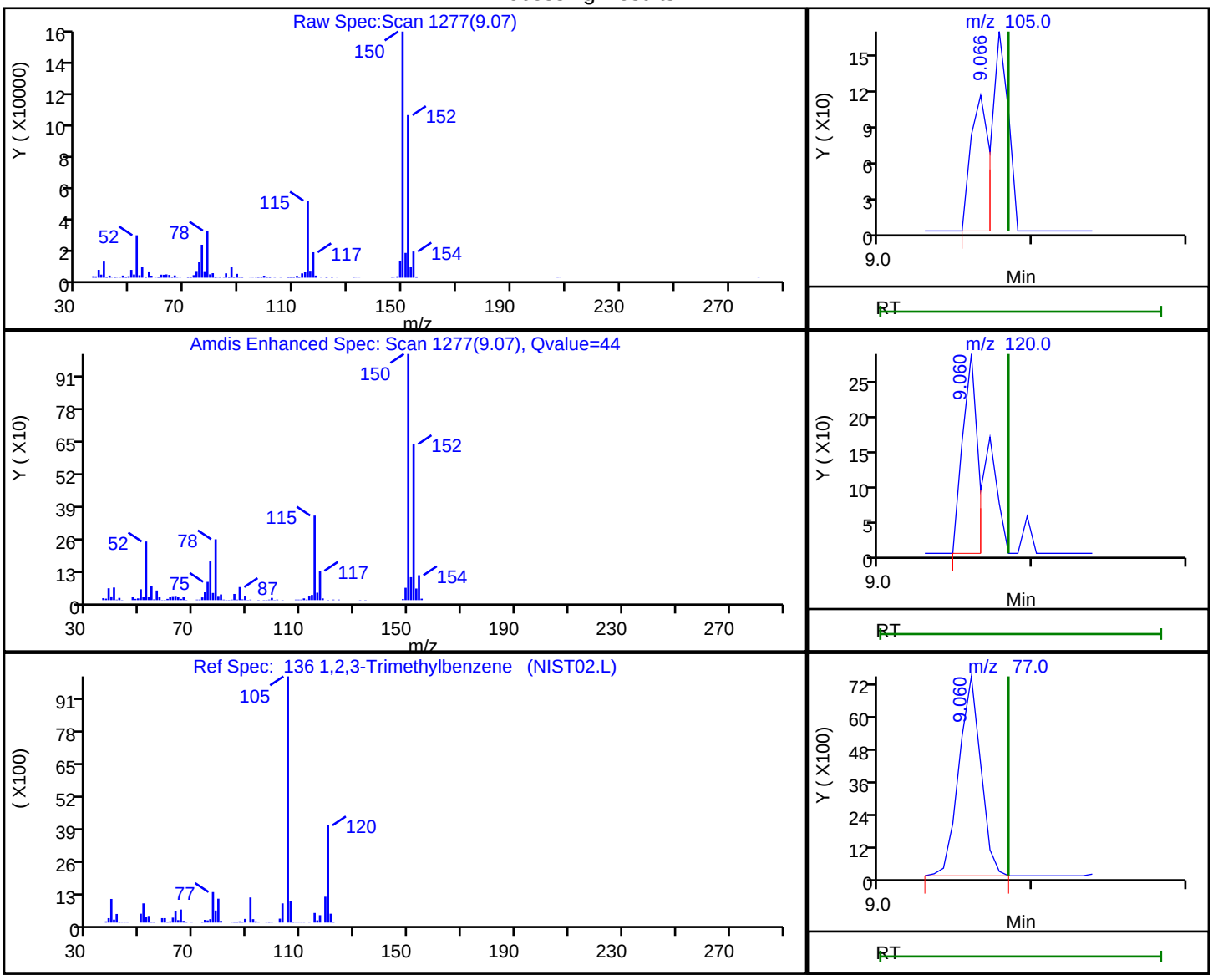
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

136 1,2,3-Trimethylbenzene, CAS: 526-73-8

Processing Results



RT	Mass	Response	Amount
9.07	105.00	95	
9.06	120.00	196	
9.06	77.00	7448	

Reviewer: delpolitov, 02-Jul-2018 10:36:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

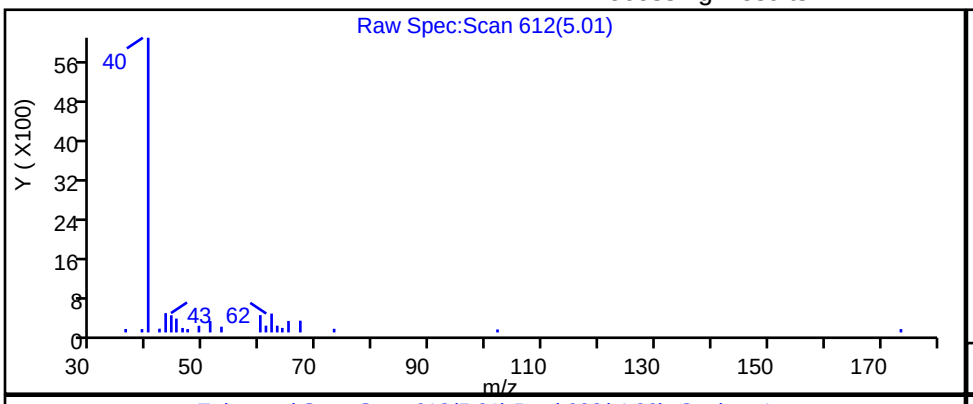
User Disabled Compound Report

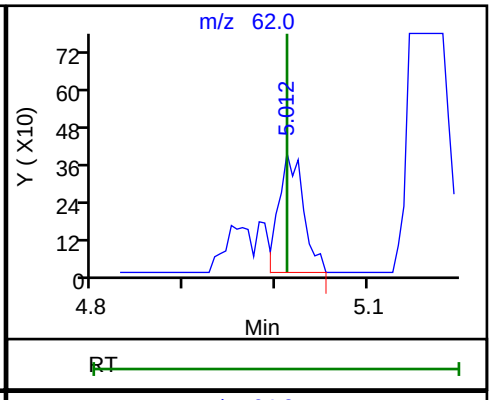
TestAmerica Edison

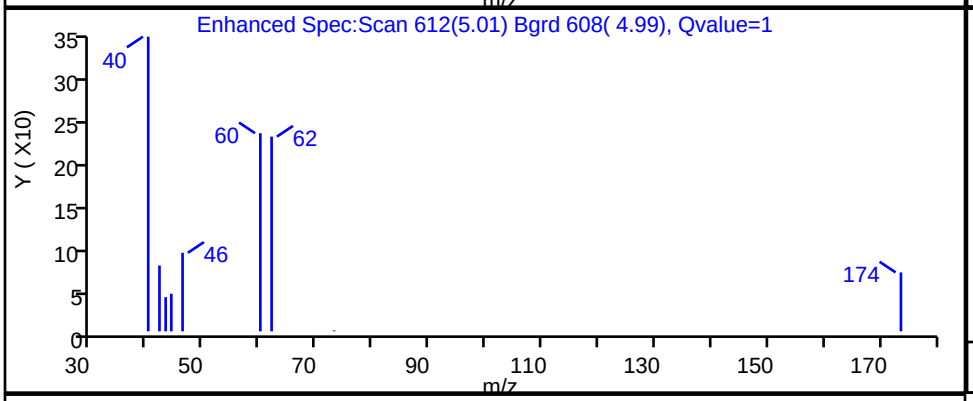
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D				
Injection Date:	02-Jul-2018 06:22:30	Instrument ID:	CVOAMS1		
Lims ID:	STD7				
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

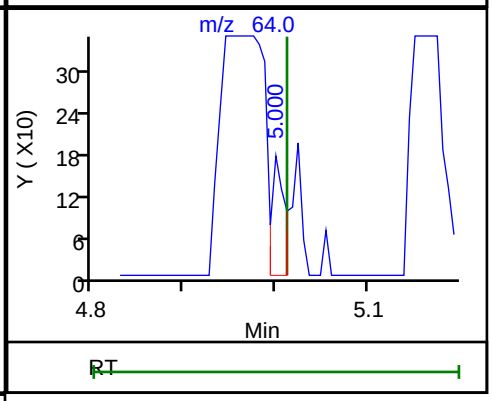
62 1,2-Dichloroethane, CAS: 107-06-2

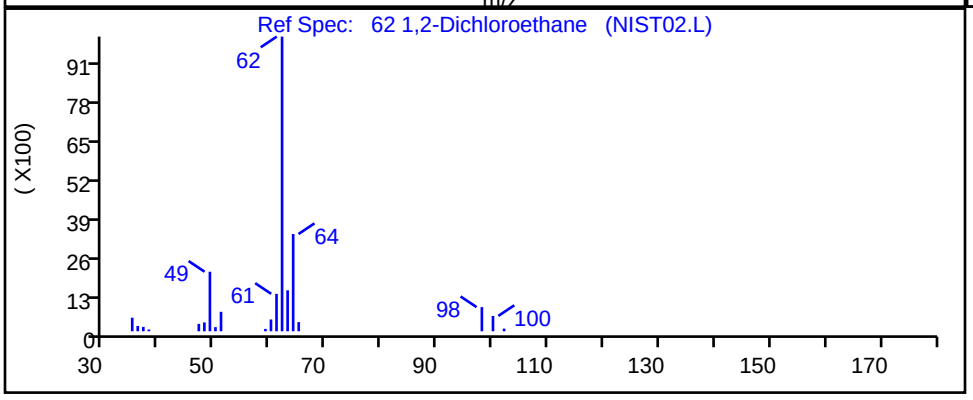
Processing Results











RT	Mass	Response	Amount
5.01	62.00	730	-0.317129
5.00	64.00	170	

Reviewer: delpolitov, 02-Jul-2018 10:36:18

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

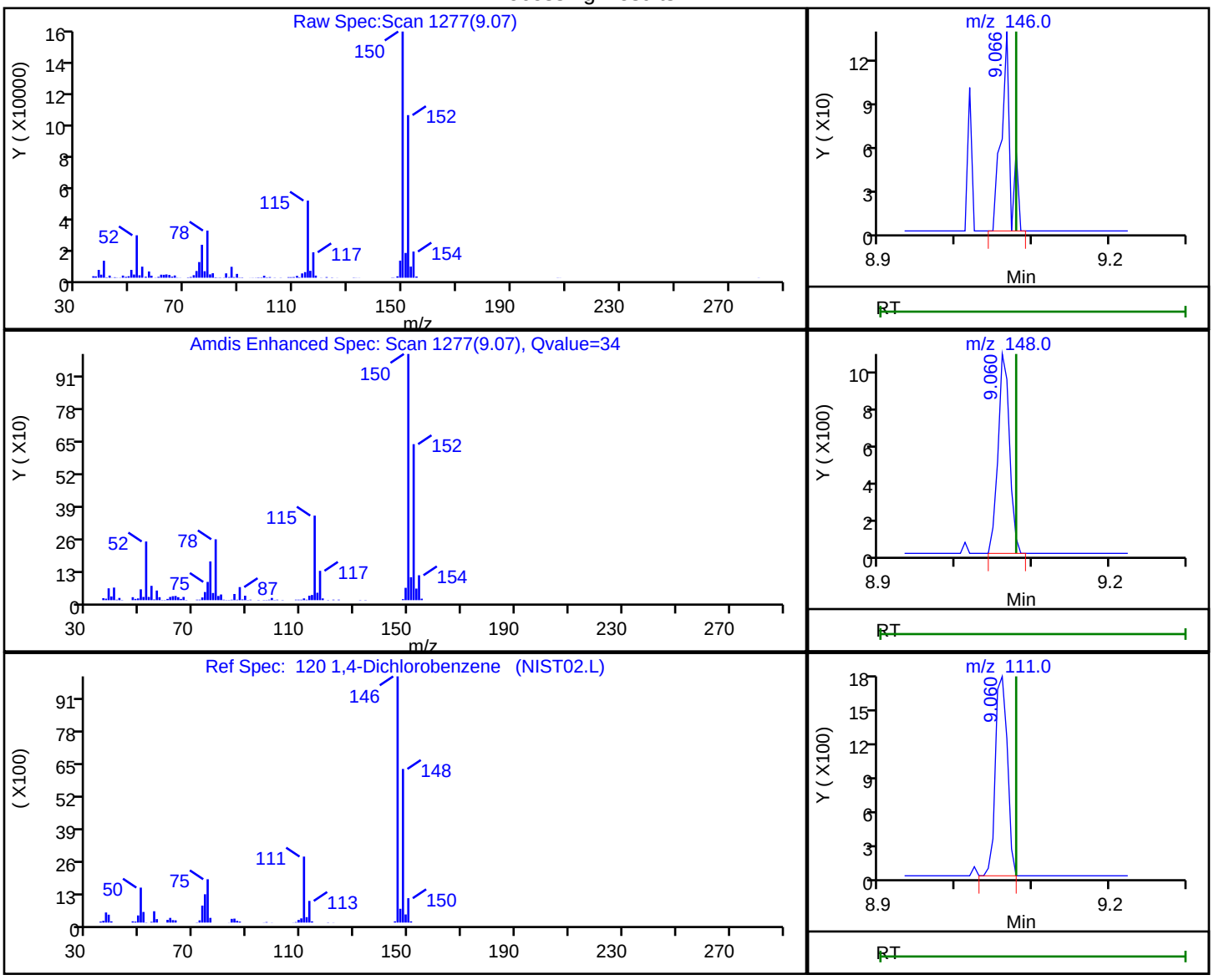
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 1,4-Dichlorobenzene, CAS: 106-46-7

Processing Results



RT	Mass	Response	Amount
9.07	146.00	114	0.016095
9.06	148.00	1098	
9.06	111.00	1895	

Reviewer: delpolitov, 02-Jul-2018 10:36:33
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

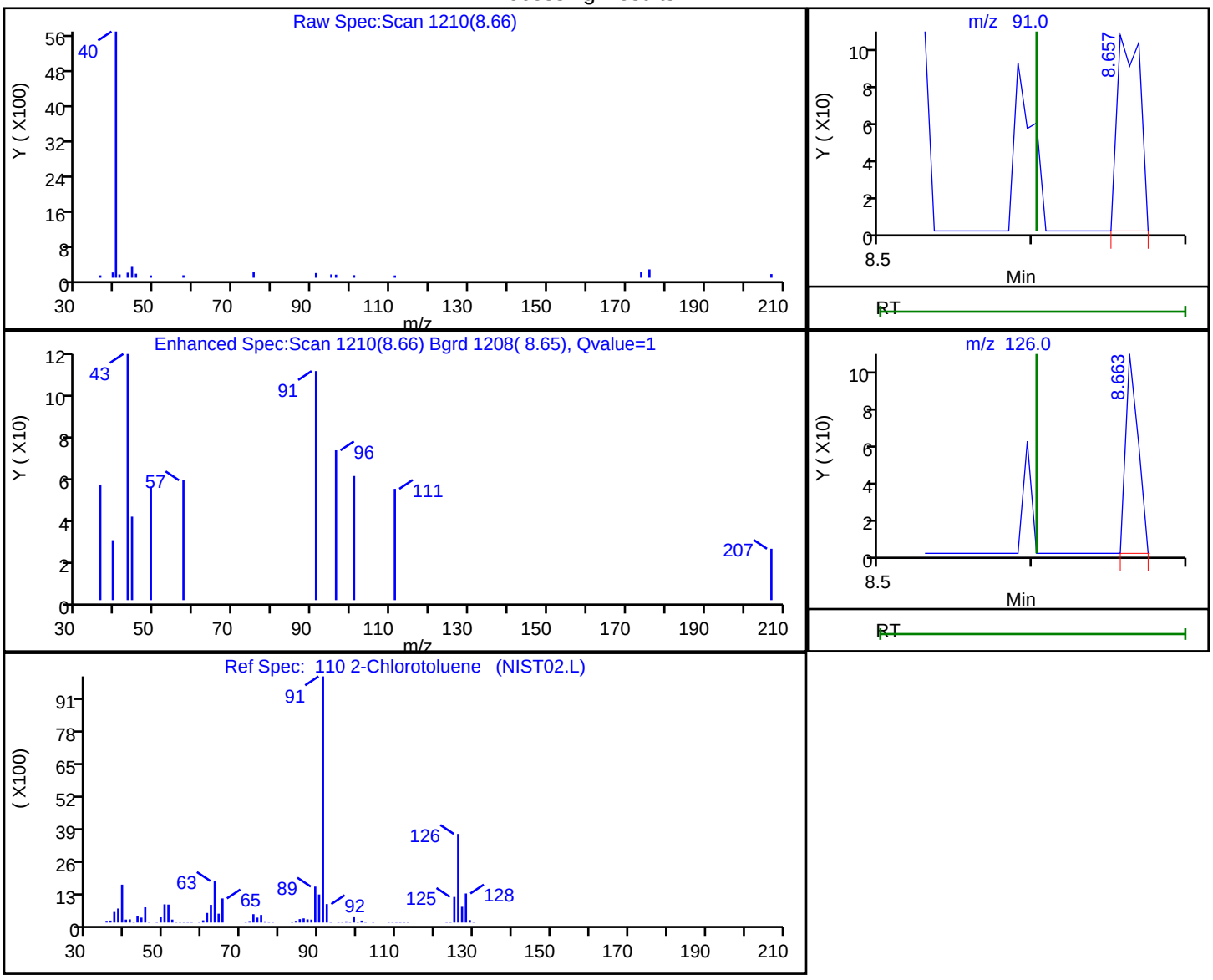
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

110 2-Chlorotoluene, CAS: 95-49-8

Processing Results



RT	Mass	Response	Amount
8.66	91.00	110	-0.312030
8.66	126.00	59	

Reviewer: delpolitov, 02-Jul-2018 10:36:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

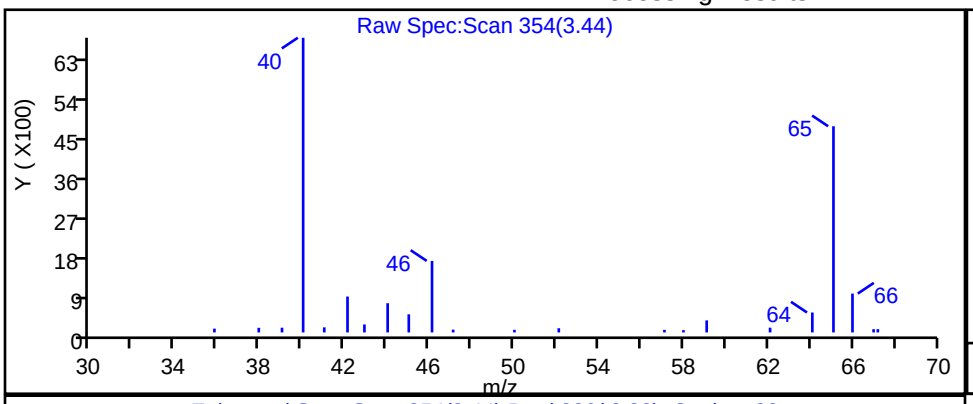
User Disabled Compound Report

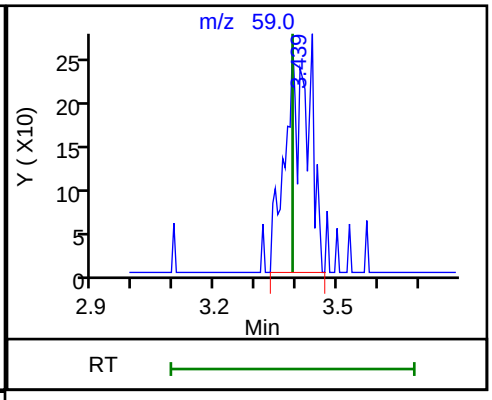
TestAmerica Edison

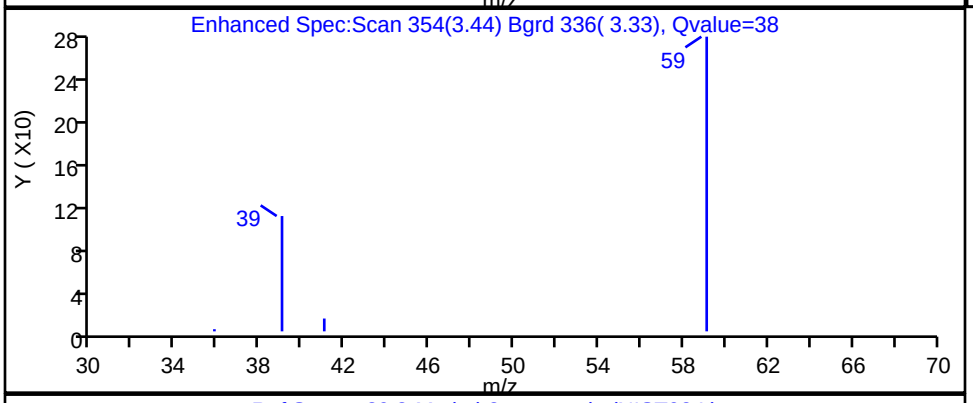
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

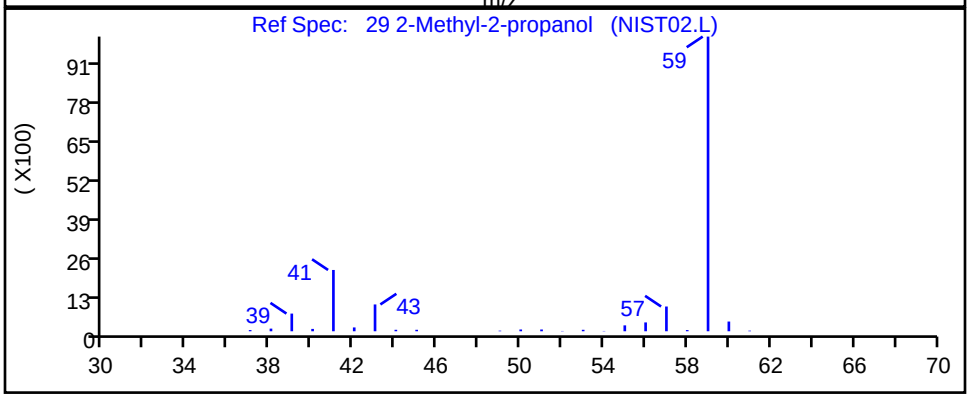
29 2-Methyl-2-propanol, CAS: 75-65-0

Processing Results









RT	Mass	Response	Amount
3.44	59.00	1087	13.792357

Reviewer: delpolitov, 02-Jul-2018 10:36:12
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

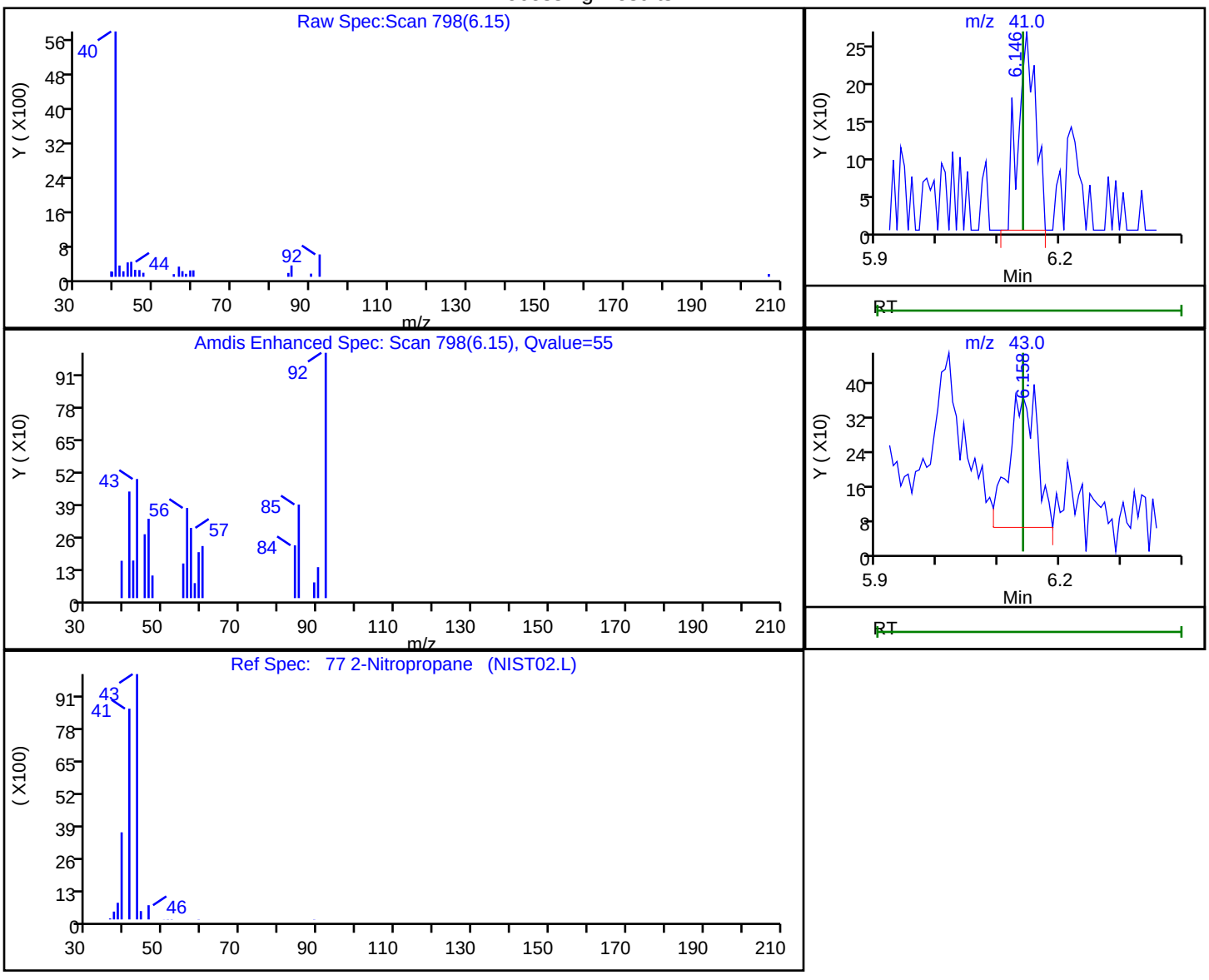
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

77 2-Nitropropane, CAS: 79-46-9

Processing Results



RT	Mass	Response	Amount
6.15	41.00	528	5.131565
6.16	43.00	1034	

Reviewer: delpolitov, 02-Jul-2018 10:36:21
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

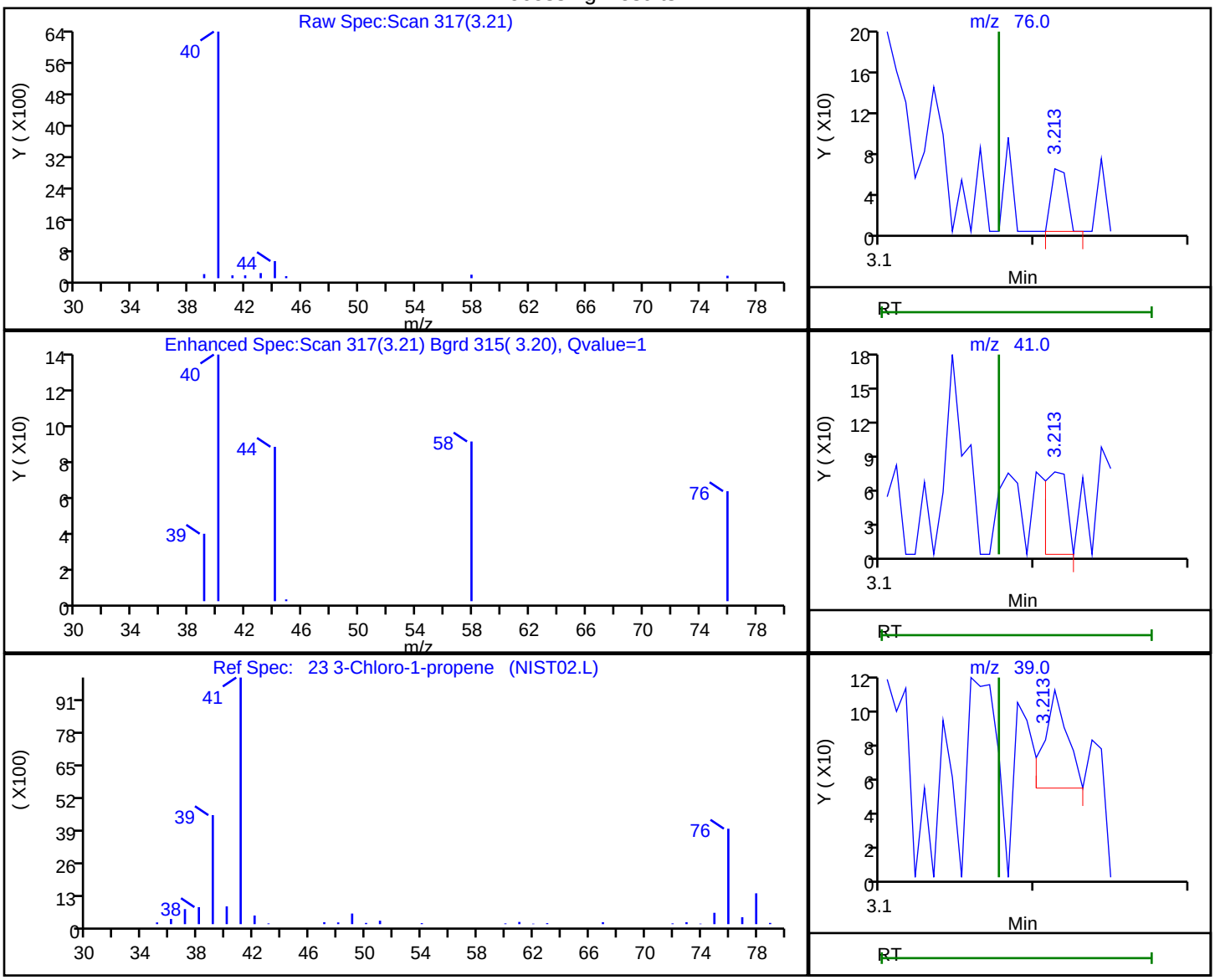
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 3-Chloro-1-propene, CAS: 107-05-1

Processing Results



RT	Mass	Response	Amount
3.21	76.00	44	0.463307
3.21	41.00	76	
3.21	39.00	56	

Reviewer: delpolitov, 02-Jul-2018 10:36:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

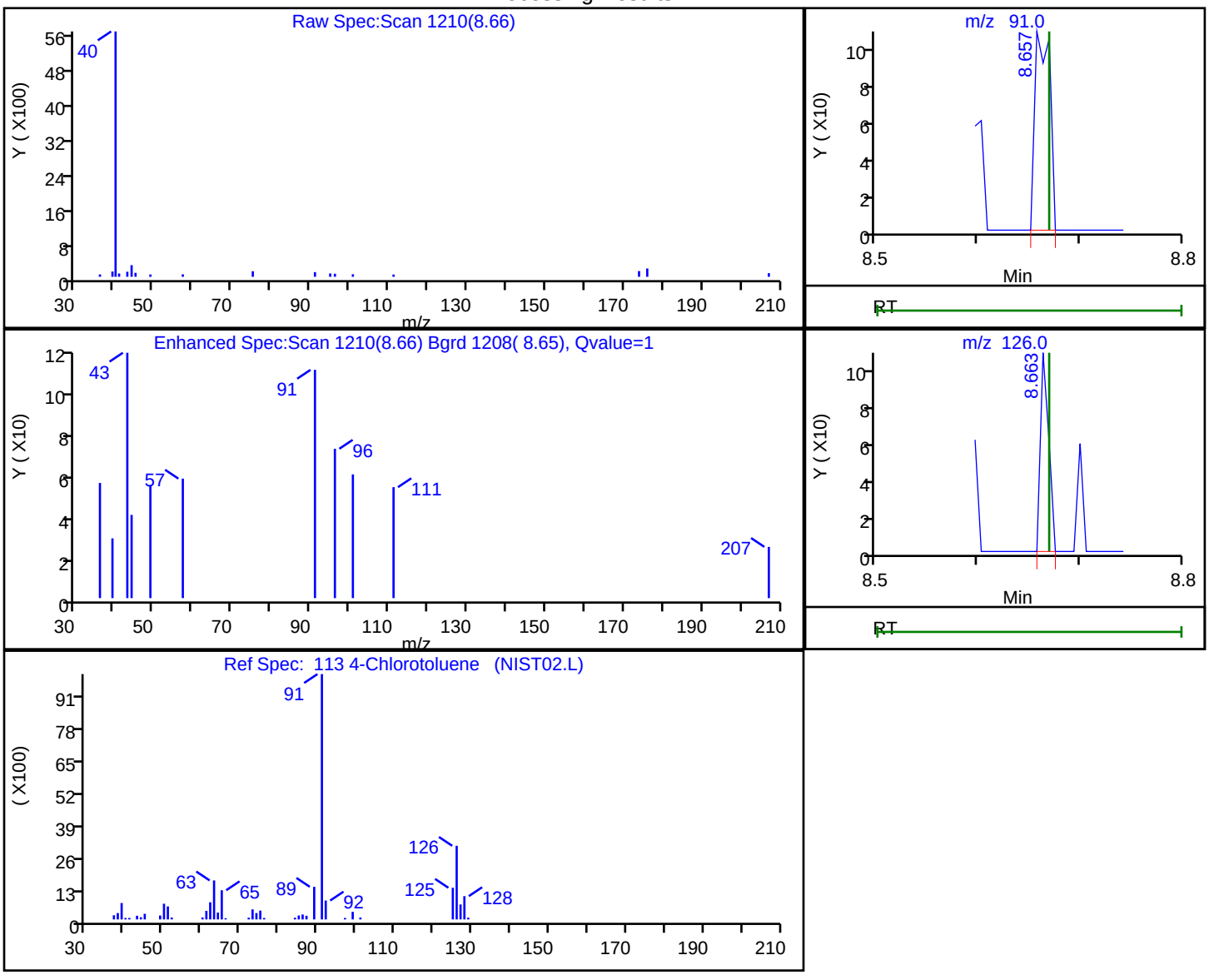
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

113 4-Chlorotoluene, CAS: 106-43-4

Processing Results



RT	Mass	Response	Amount
8.66	91.00	110	-0.311613
8.66	126.00	59	

Reviewer: delpolitov, 02-Jul-2018 10:36:30
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

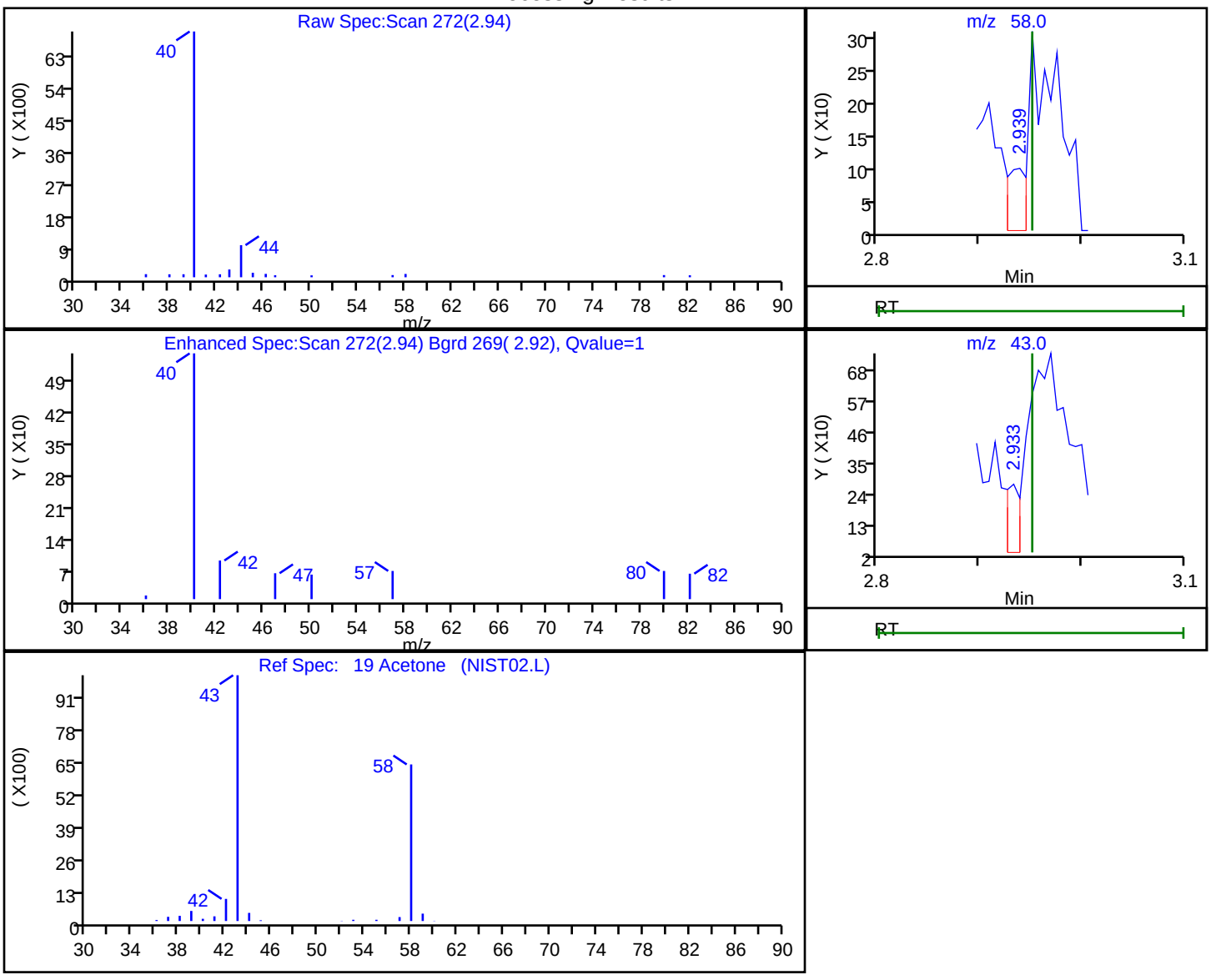
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

19 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.94	58.00	127	0.548781
2.93	43.00	241	

Reviewer: delpolitov, 02-Jul-2018 10:36:08
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

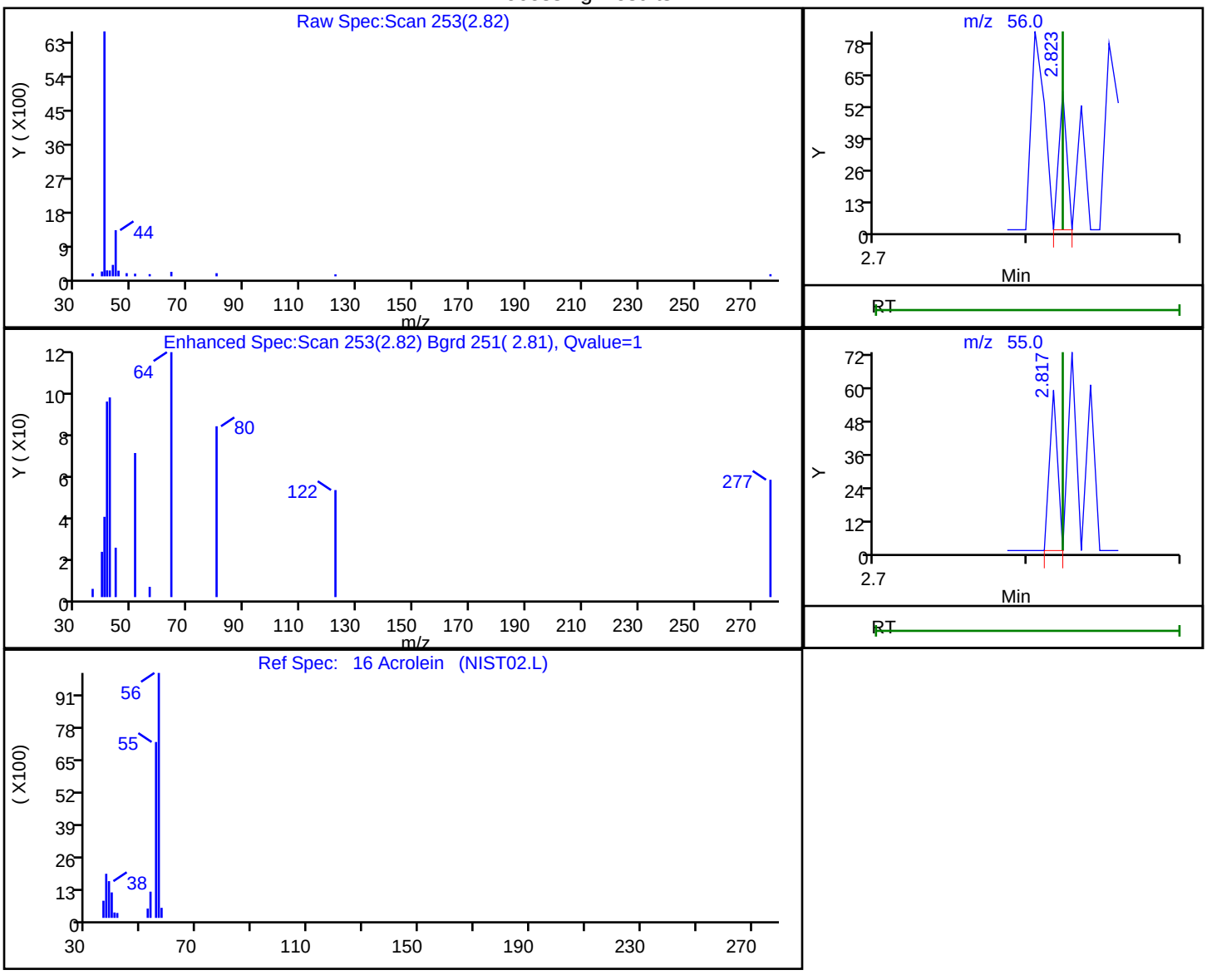
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 Acrolein, CAS: 107-02-8

Processing Results



RT	Mass	Response	Amount
2.82	56.00	21	-0.320480
2.82	55.00	22	

Reviewer: delpolitov, 02-Jul-2018 10:36:07
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

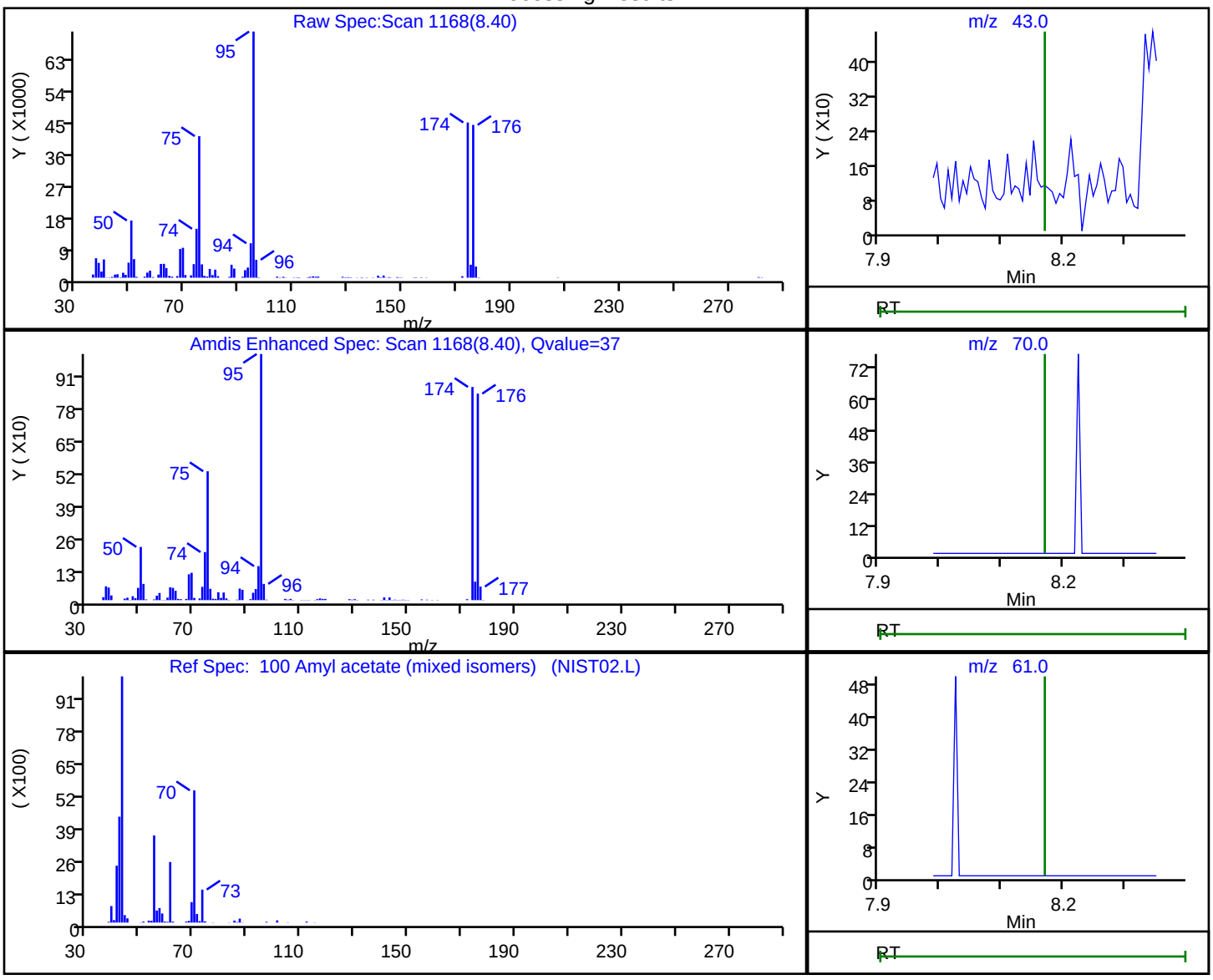
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

100 Amyl acetate (mixed isomers), CAS: 628-63-7

Processing Results



RT	Mass	Response	Amount
8.40	43.00	391	0.063441
8.41	70.00	1170	
8.41	61.00	6634	

Reviewer: delpolitov, 02-Jul-2018 10:36:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

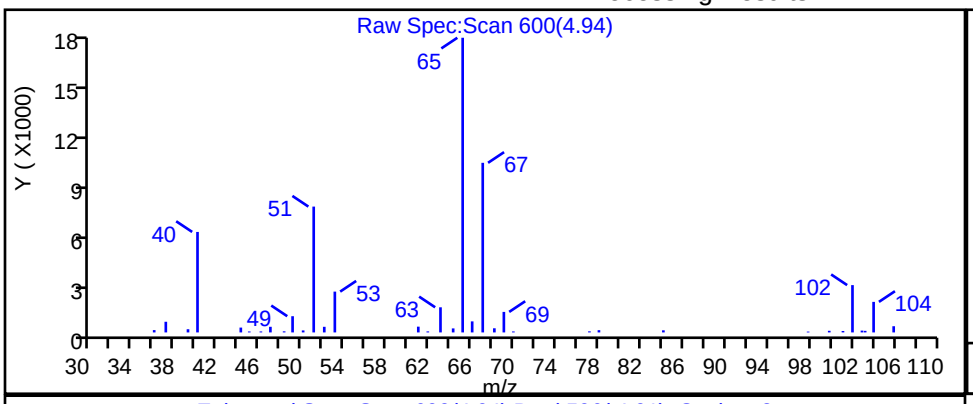
User Disabled Compound Report

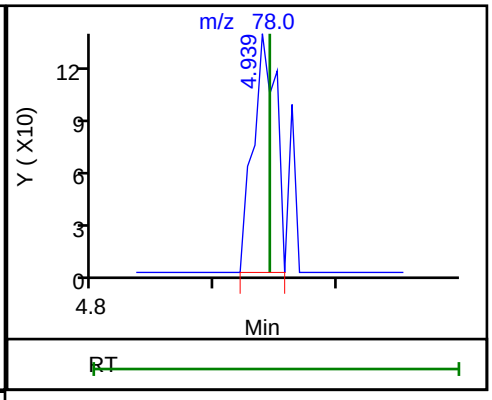
TestAmerica Edison

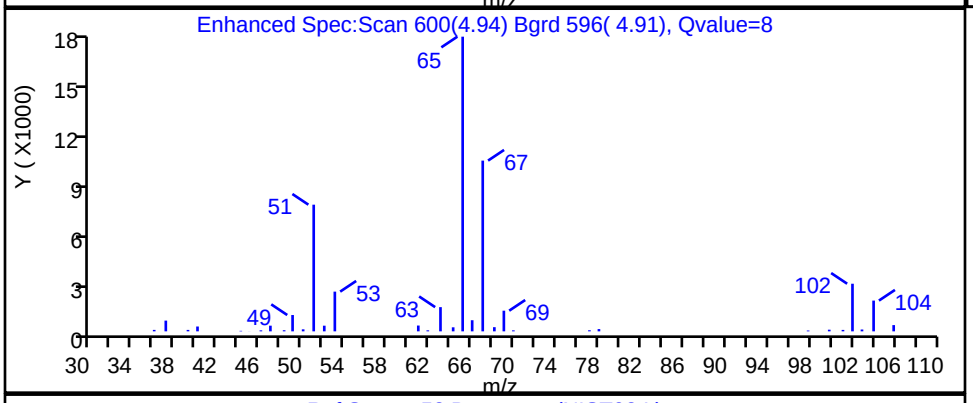
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D				
Injection Date:	02-Jul-2018 06:22:30	Instrument ID:	CVOAMS1		
Lims ID:	STD7				
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

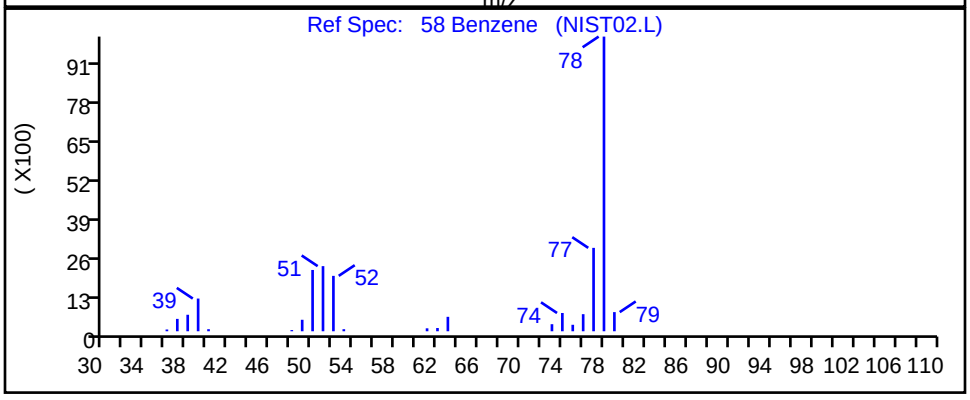
58 Benzene, CAS: 71-43-2

Processing Results









RT	Mass	Response	Amount
4.94	78.00	176	0.014773

Reviewer: delpolitov, 02-Jul-2018 10:36:17

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

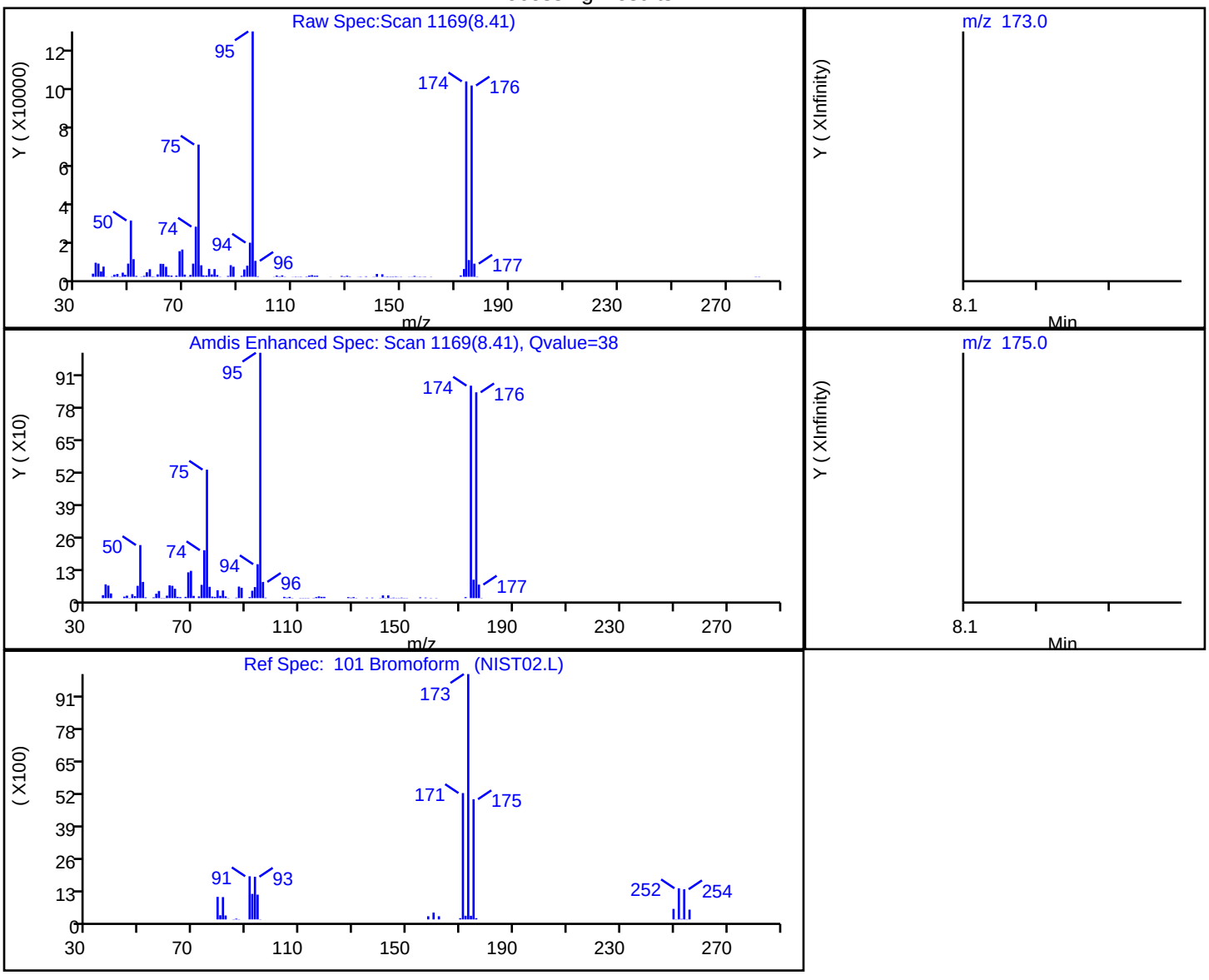
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

101 Bromoform, CAS: 75-25-2

Processing Results



RT	Mass	Response	Amount
8.41	173.00	2215	1.665404
8.41	175.00	9564	

Reviewer: delpolitov, 02-Jul-2018 10:36:28
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

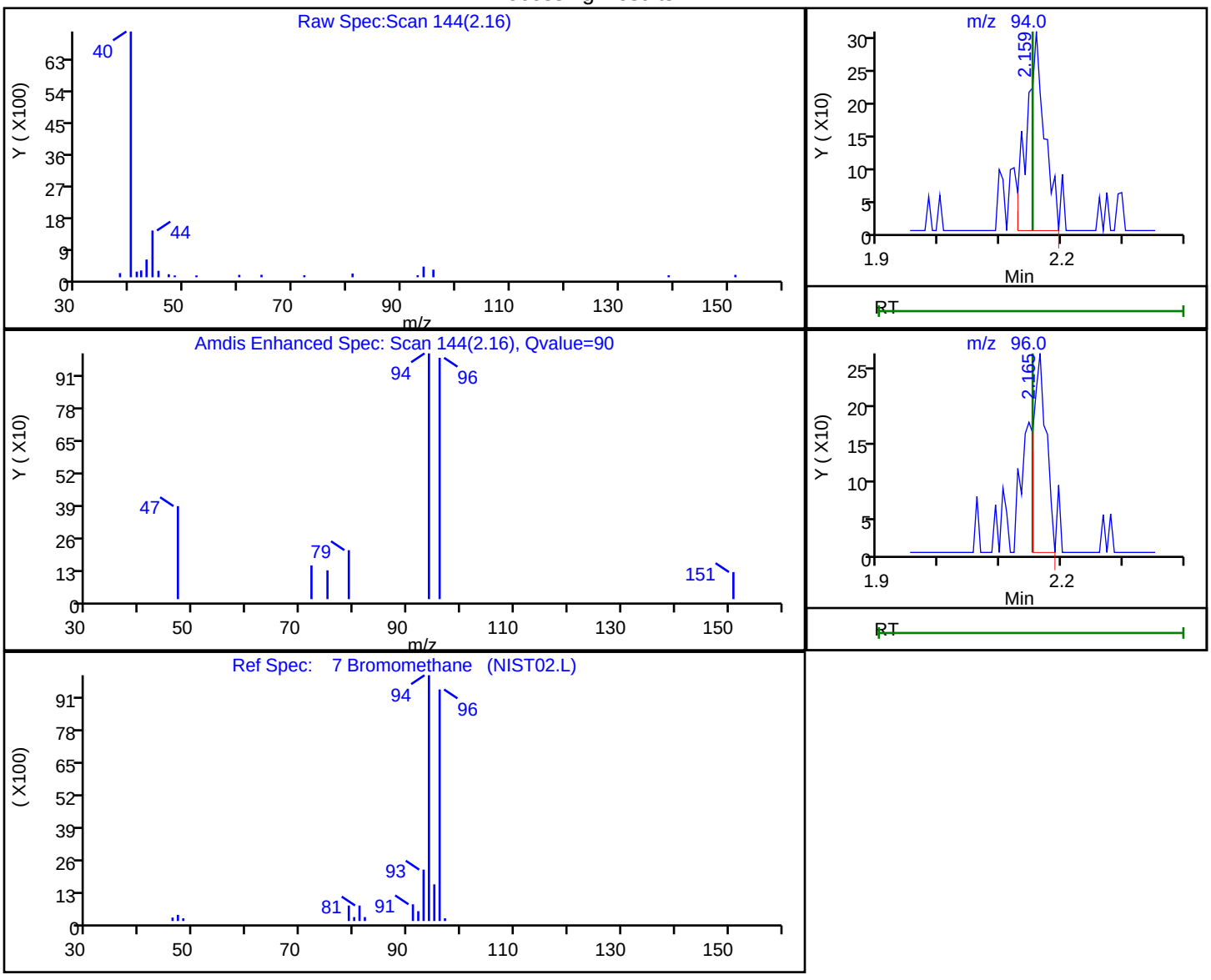
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

7 Bromomethane, CAS: 74-83-9

Processing Results



RT	Mass	Response	Amount
2.16	94.00	606	0.225996
2.16	96.00	376	

Reviewer: delpolitov, 02-Jul-2018 10:36:03
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

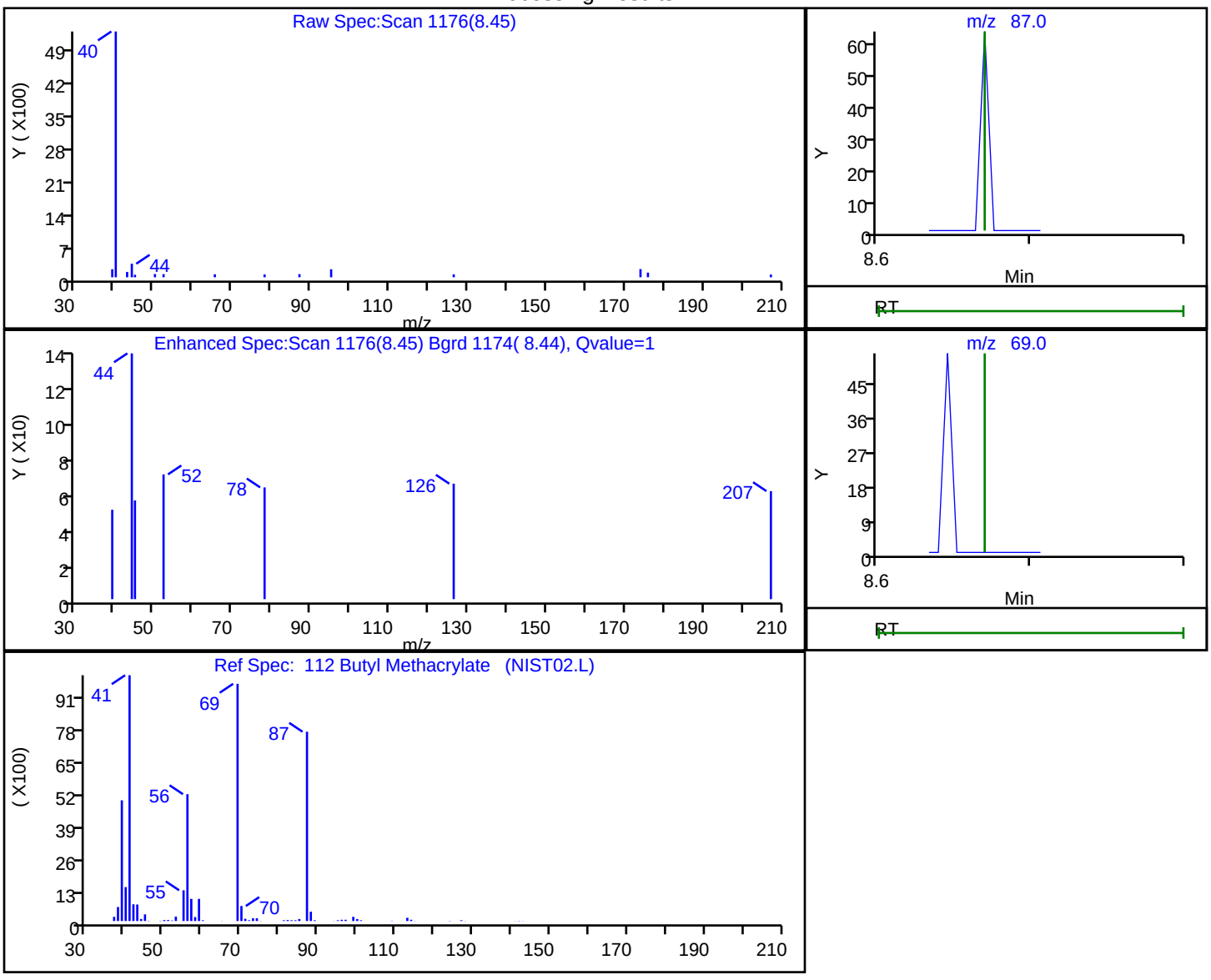
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 Butyl Methacrylate, CAS: 97-88-1

Processing Results



RT	Mass	Response	Amount
8.45	87.00	24	0.006055
8.46	69.00	19	

Reviewer: delpolitov, 02-Jul-2018 10:36:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

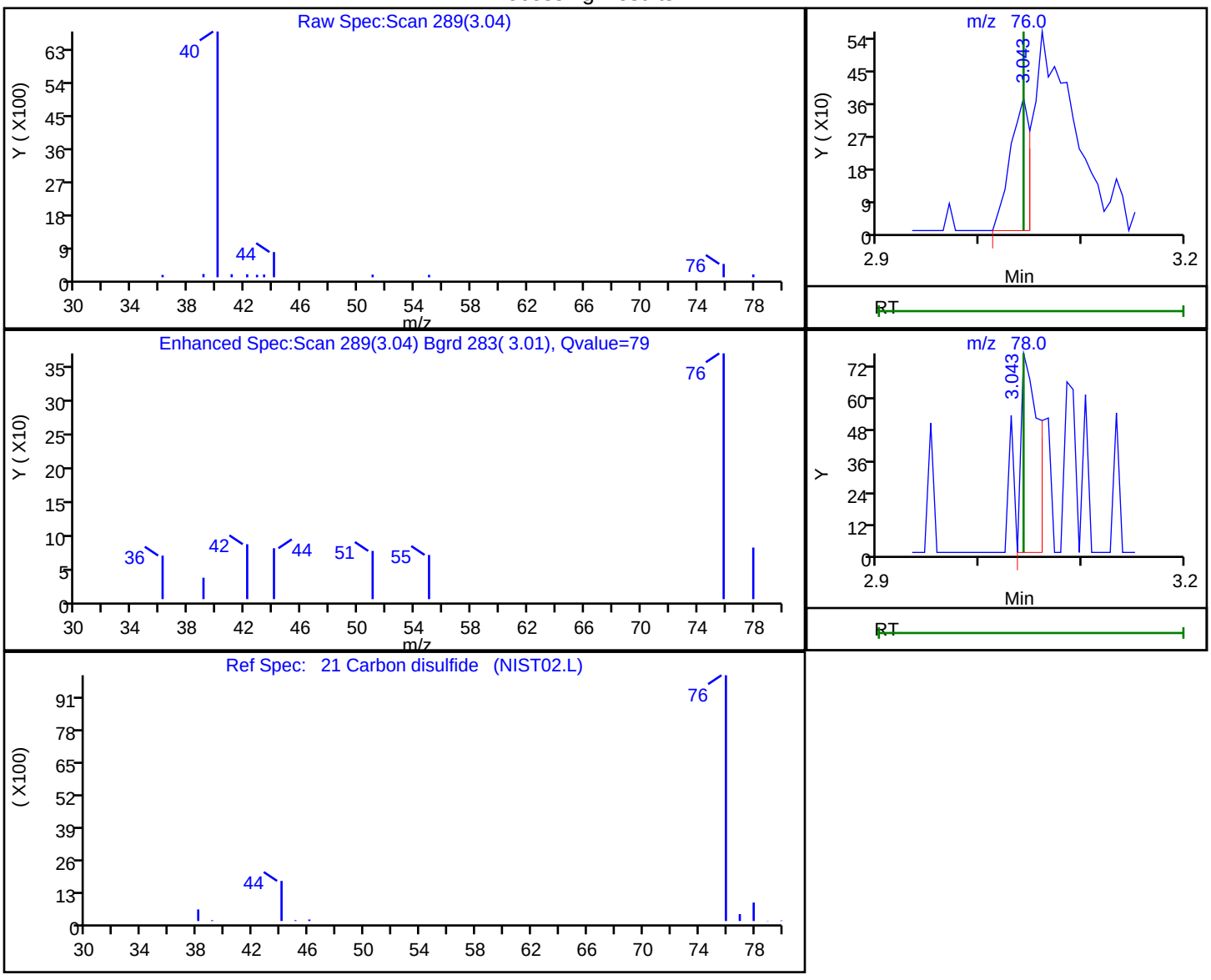
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

21 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
3.04	76.00	496	-0.544794
3.04	78.00	90	

Reviewer: delpolitov, 02-Jul-2018 10:36:09
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

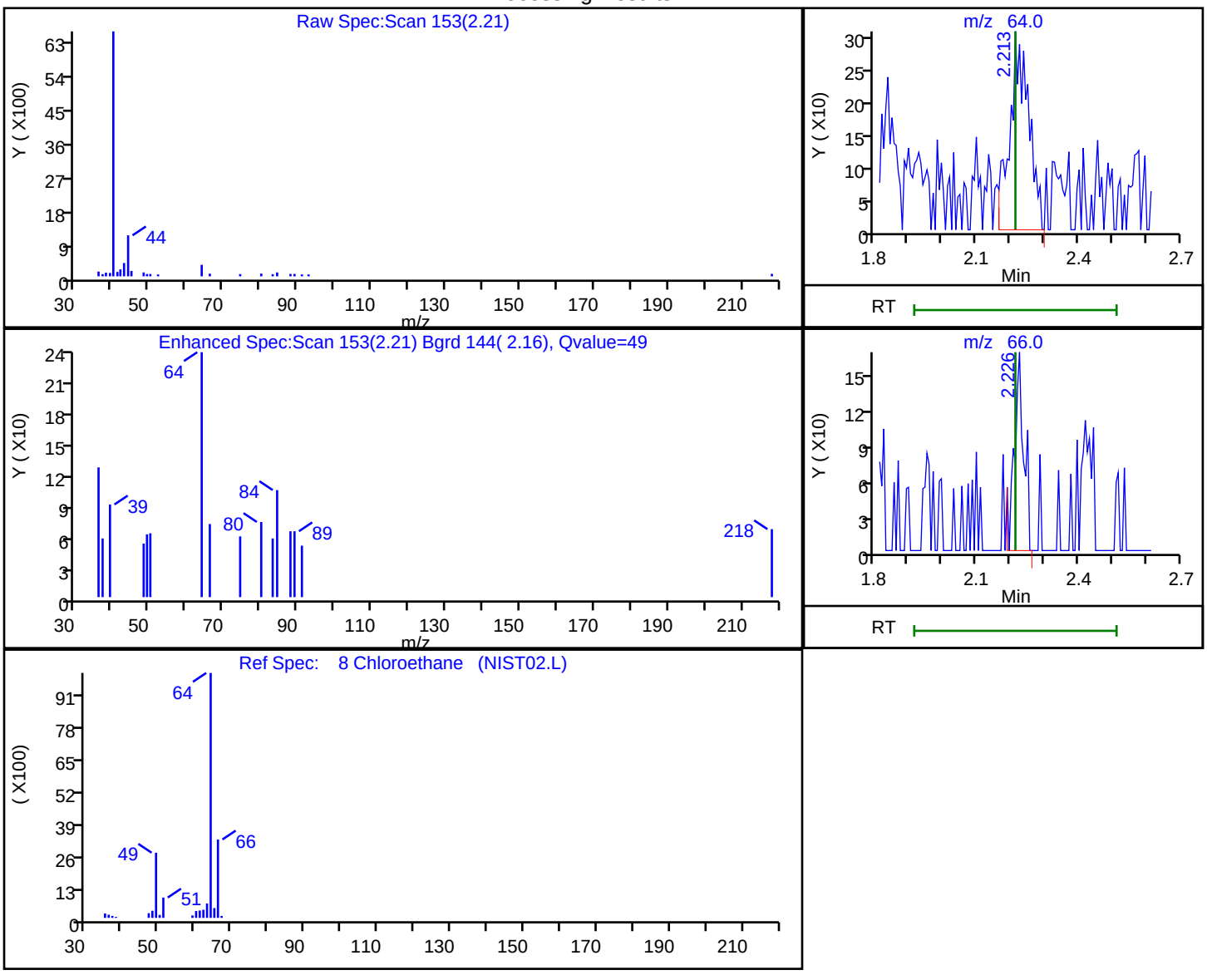
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
2.21	64.00	1194	0.457870
2.23	66.00	324	

Reviewer: delpolitov, 02-Jul-2018 10:36:04
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

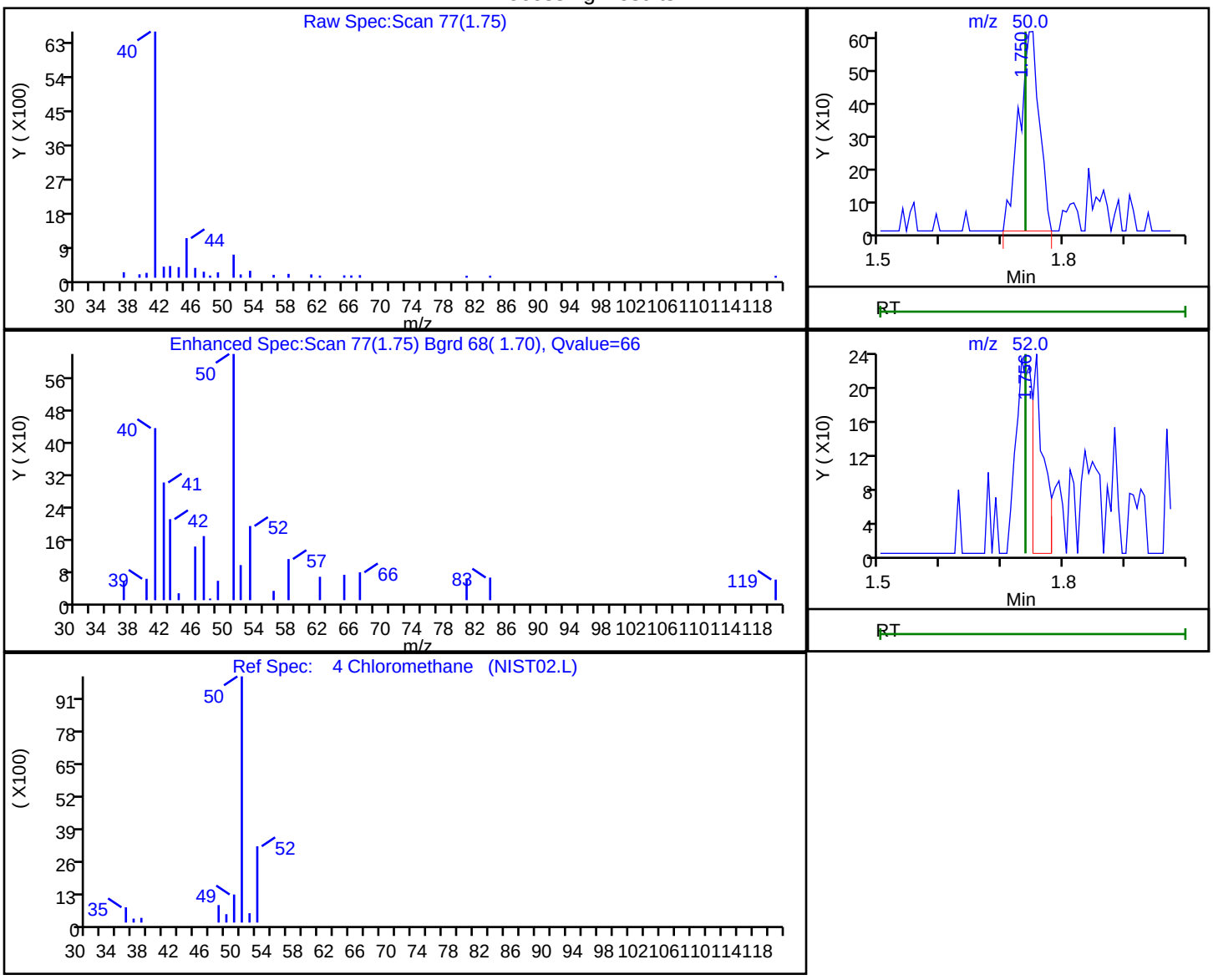
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.75	50.00	1393	0.256661
1.76	52.00	300	

Reviewer: delpolitov, 02-Jul-2018 10:35:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

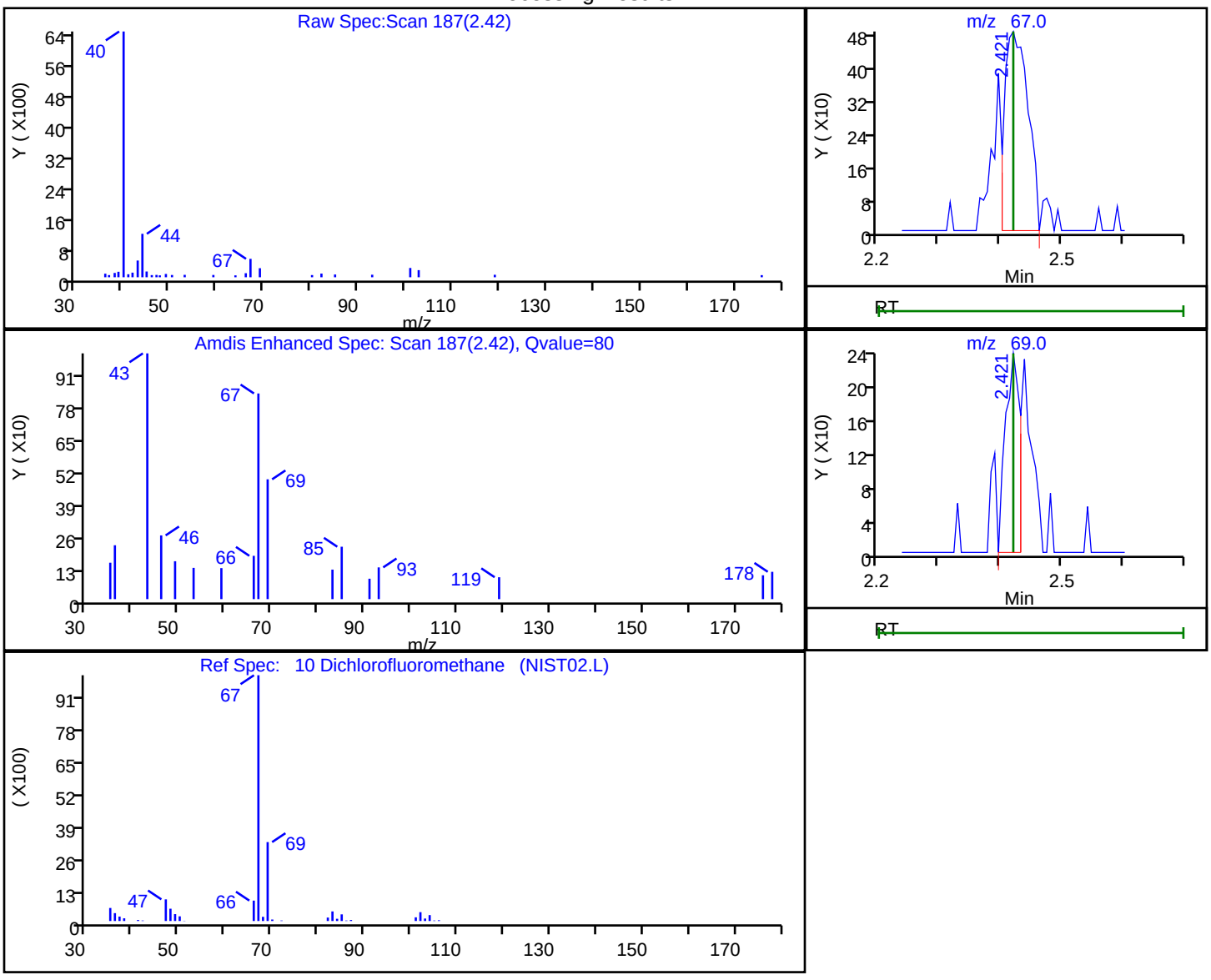
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

10 Dichlorofluoromethane, CAS: 75-43-4

Processing Results



RT	Mass	Response	Amount
2.42	67.00	1290	0.207389
2.42	69.00	389	

Reviewer: delpolitov, 02-Jul-2018 10:36:05
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

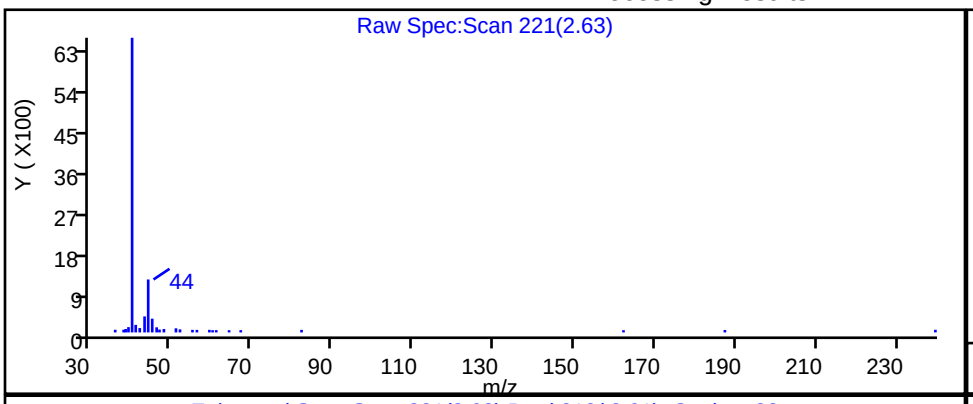
User Disabled Compound Report

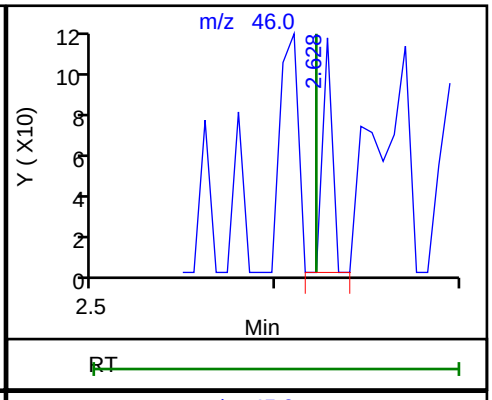
TestAmerica Edison

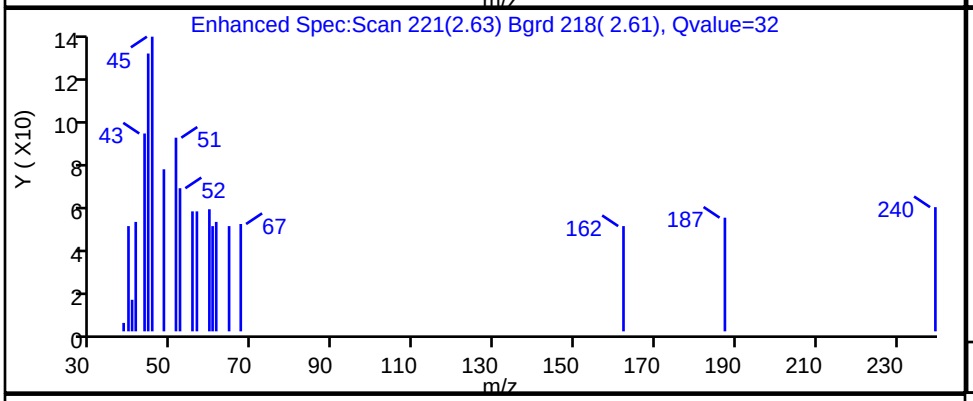
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D				
Injection Date:	02-Jul-2018 06:22:30	Instrument ID:	CVOAMS1		
Lims ID:	STD7				
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	3	Worklist Smp#:	4
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

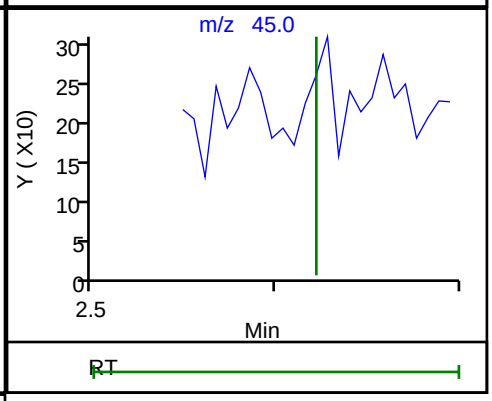
12 Ethanol, CAS: 64-17-5

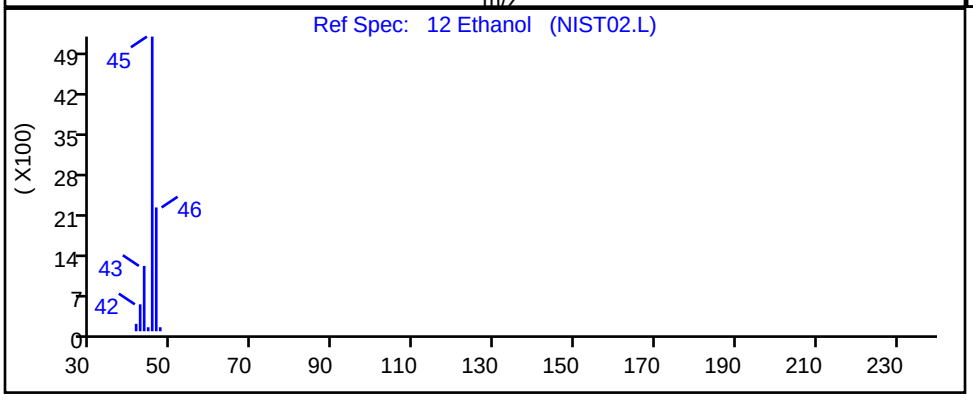
Processing Results











RT	Mass	Response	Amount
2.63	46.00	42	4.170876
2.63	45.00	1520	

Reviewer: delpolitov, 02-Jul-2018 10:36:07

Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

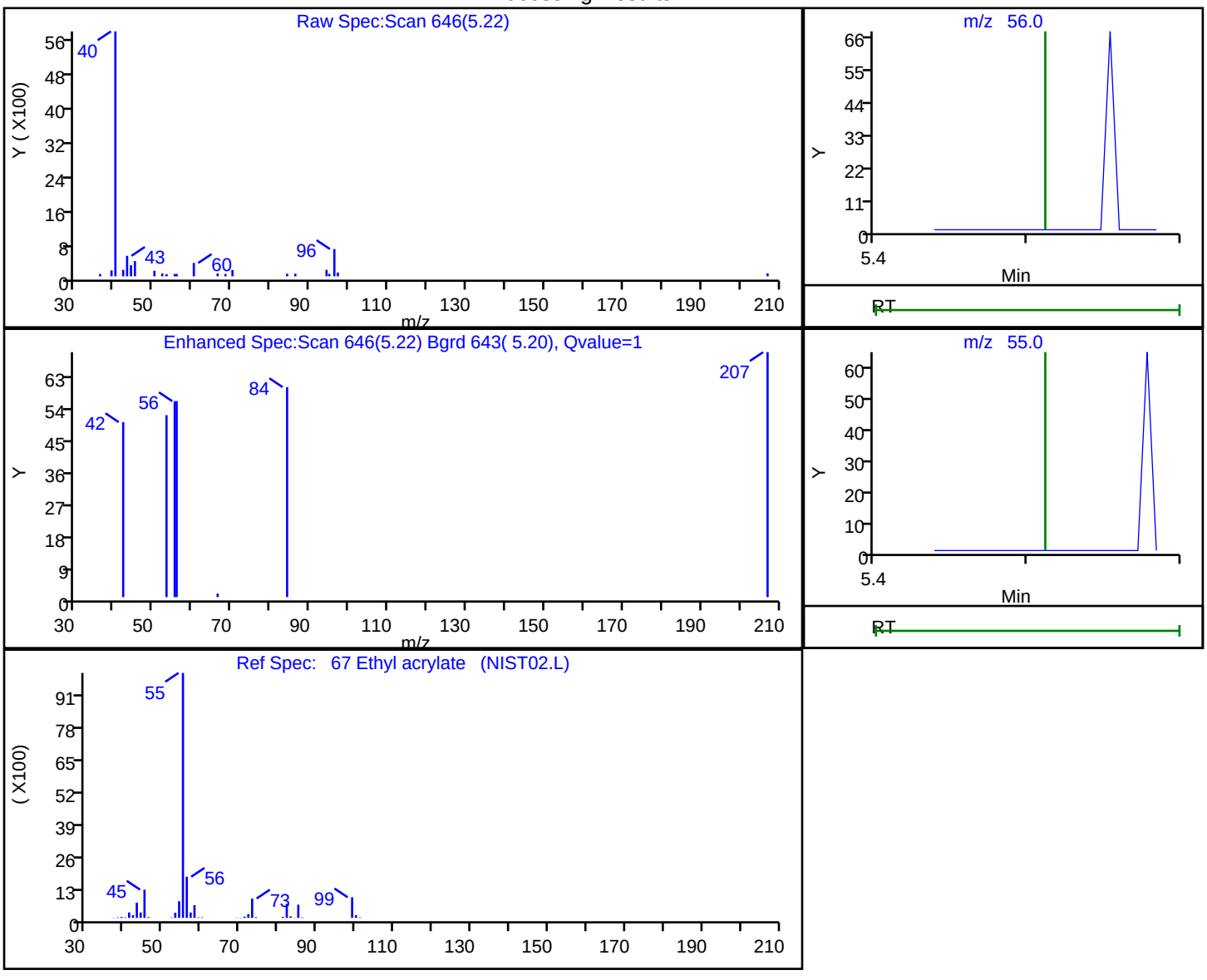
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

67 Ethyl acrylate, CAS: 140-88-5

Processing Results



RT	Mass	Response	Amount
5.22	56.00	52	1473.8167
5.22	55.00	20	

Reviewer: delpolitov, 02-Jul-2018 10:36:19
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

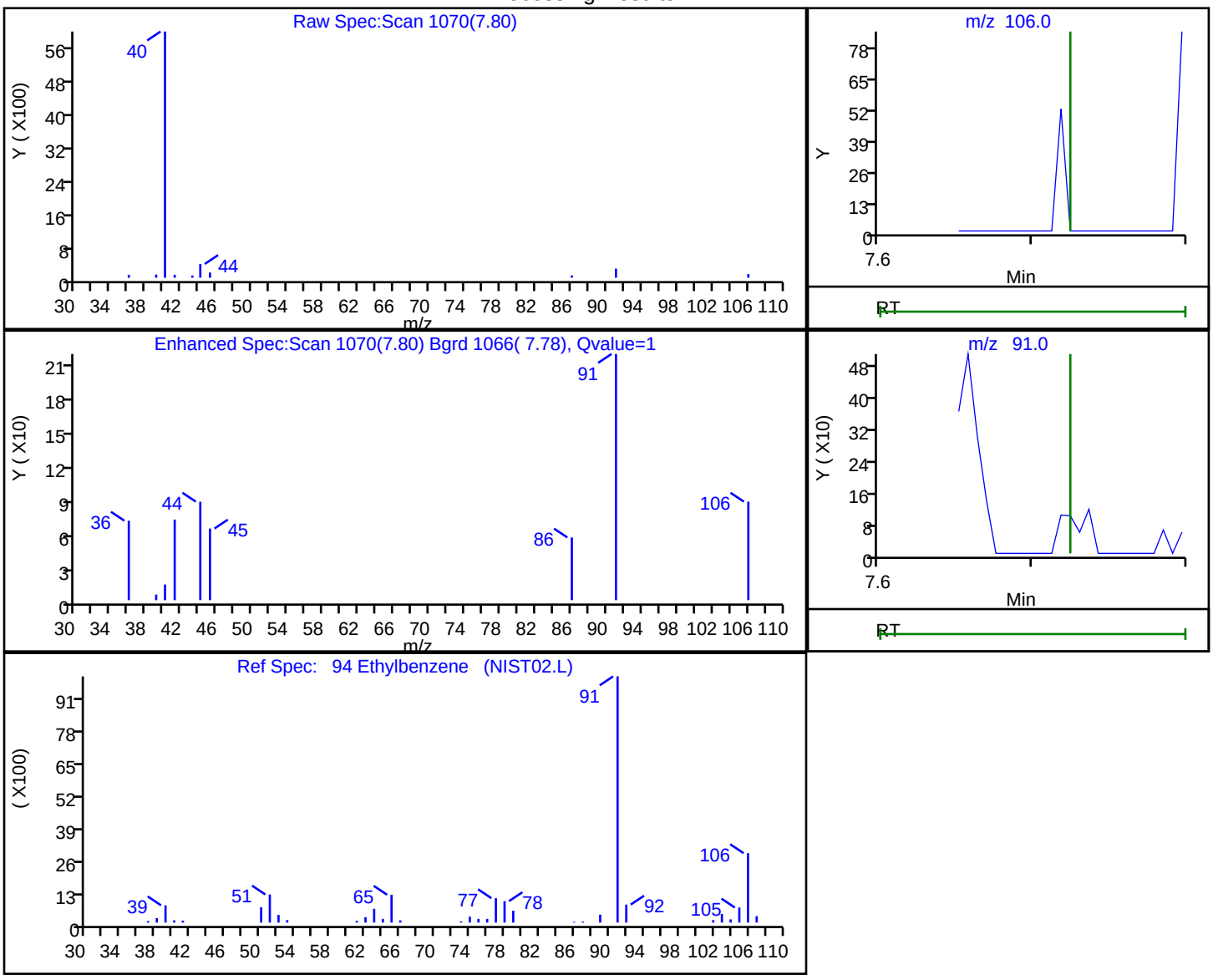
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

94 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
7.80	106.00	63	0.016512
7.80	91.00	159	

Reviewer: delpolitov, 02-Jul-2018 10:36:26
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

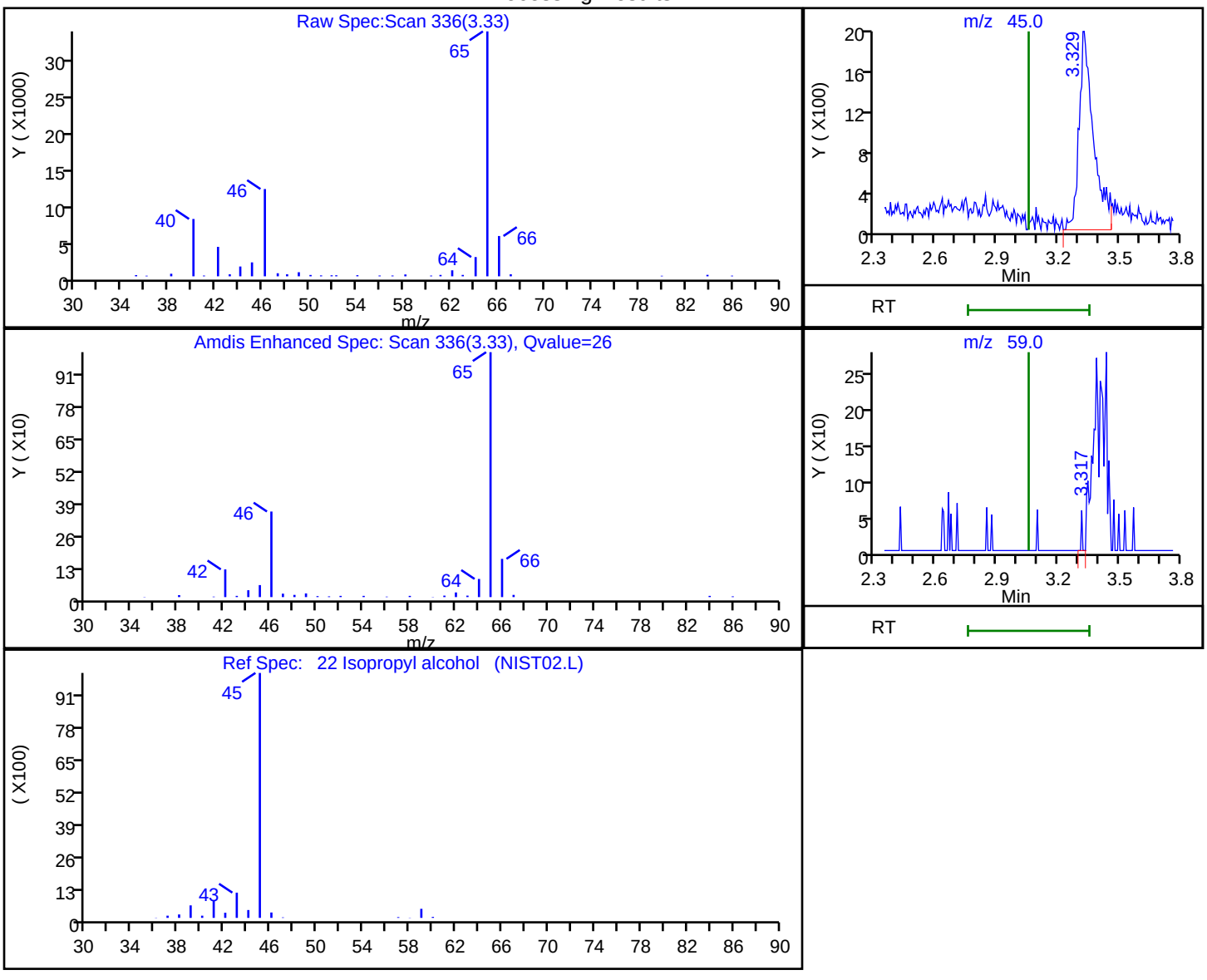
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Processing Results



RT	Mass	Response	Amount
3.33	45.00	9604	54.998960
3.32	59.00	20	

Reviewer: delpolitov, 02-Jul-2018 10:36:10
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

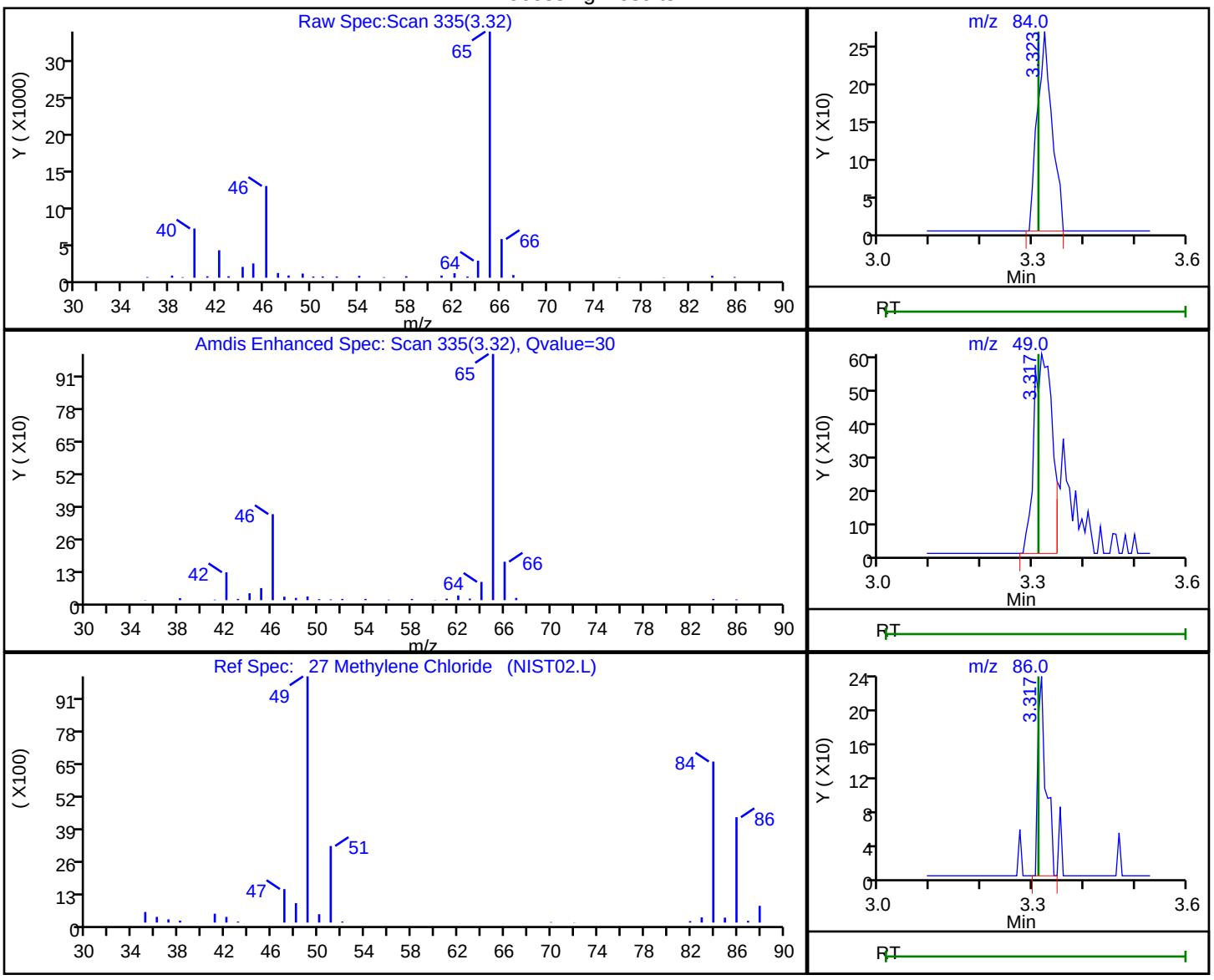
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
3.32	84.00	535	-0.415085
3.32	49.00	1505	
3.32	86.00	262	

Reviewer: delpolitov, 02-Jul-2018 10:36:11
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

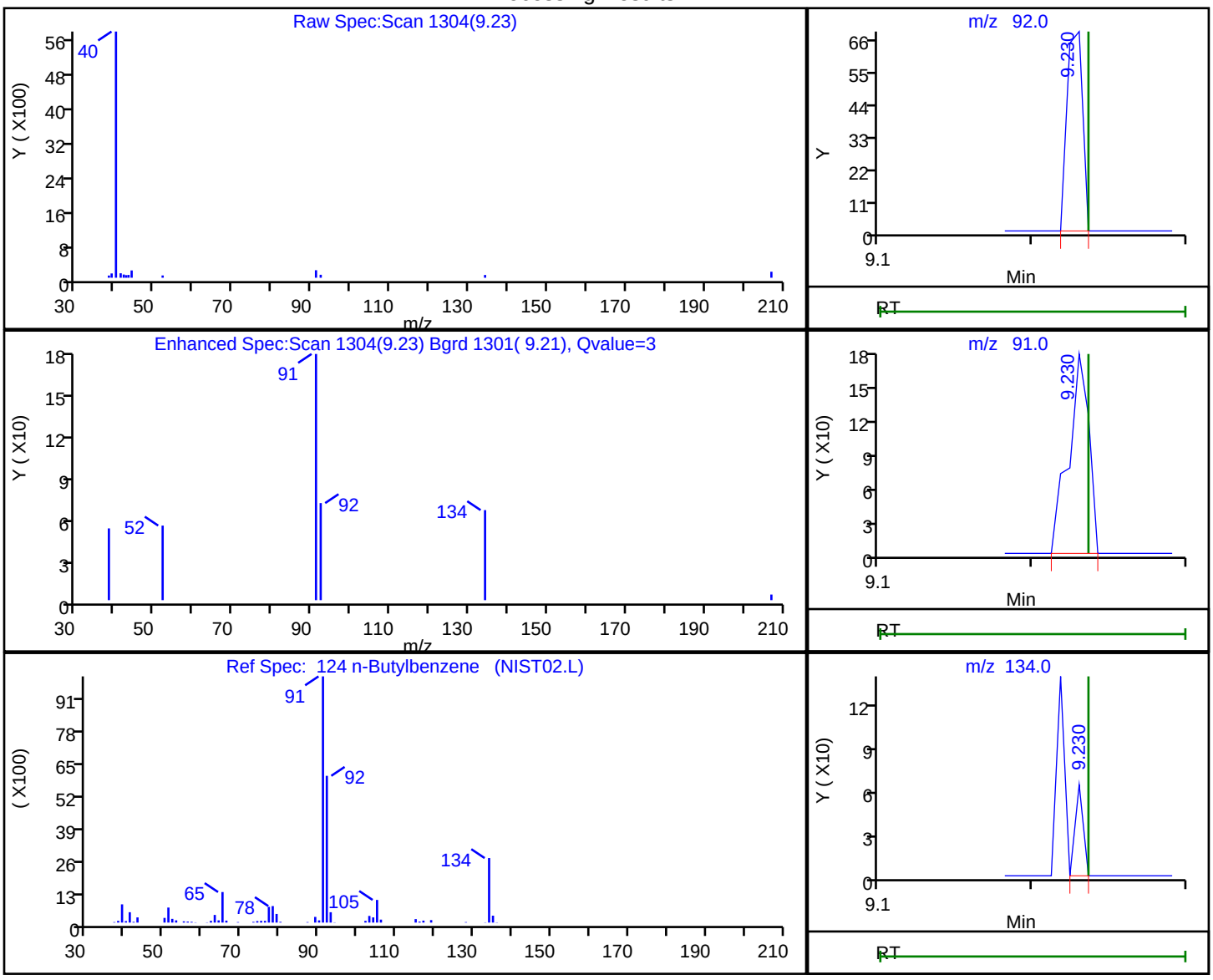
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

124 n-Butylbenzene, CAS: 104-51-8

Processing Results



RT	Mass	Response	Amount
9.23	92.00	49	0.007108
9.23	91.00	161	
9.23	134.00	23	

Reviewer: delpolitov, 02-Jul-2018 10:36:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

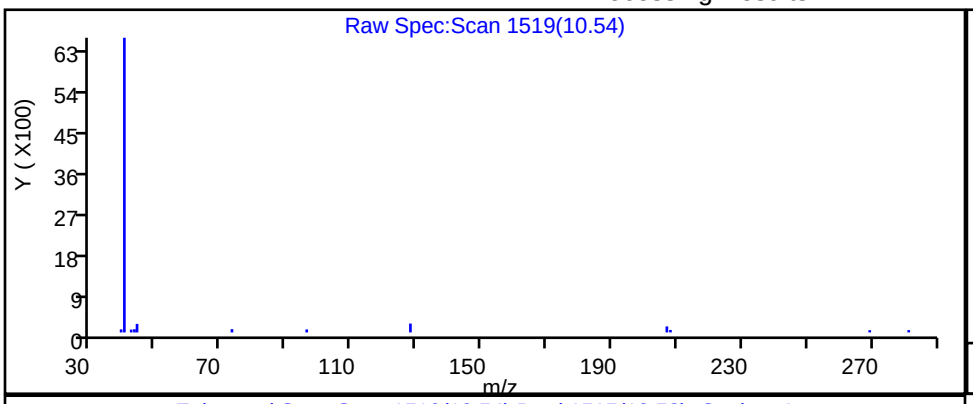
User Disabled Compound Report

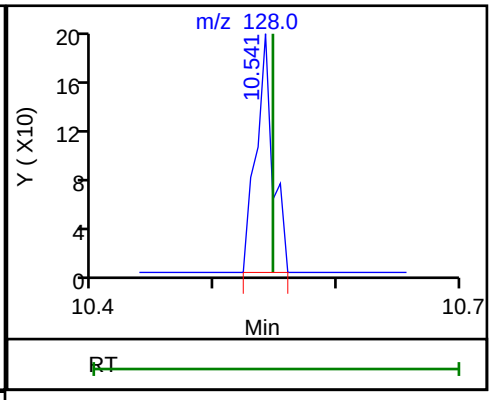
TestAmerica Edison

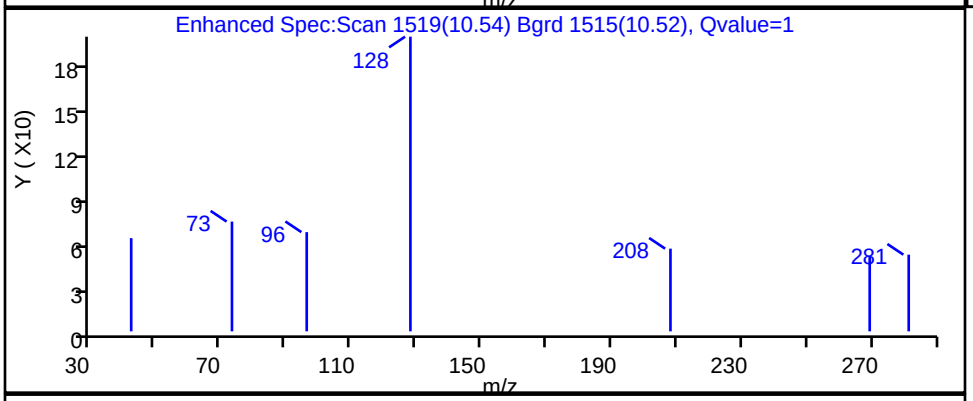
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

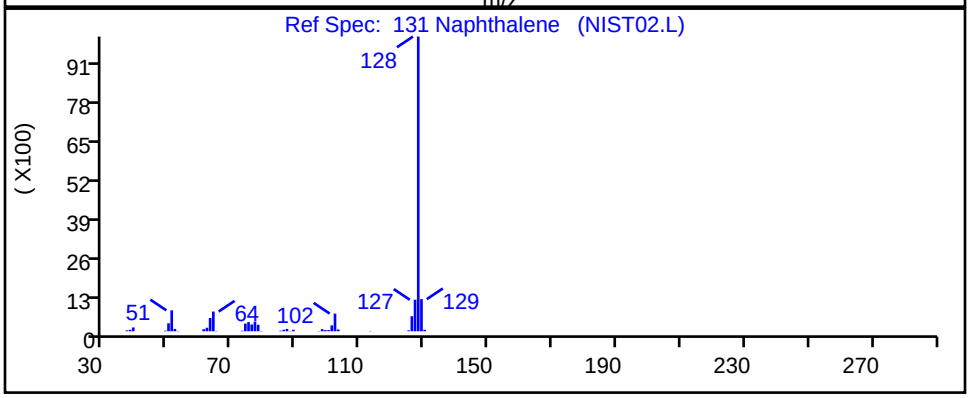
131 Naphthalene, CAS: 91-20-3

Processing Results









RT	Mass	Response	Amount
10.54	128.00	187	0.018393

Reviewer: delpolitov, 02-Jul-2018 10:36:35
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

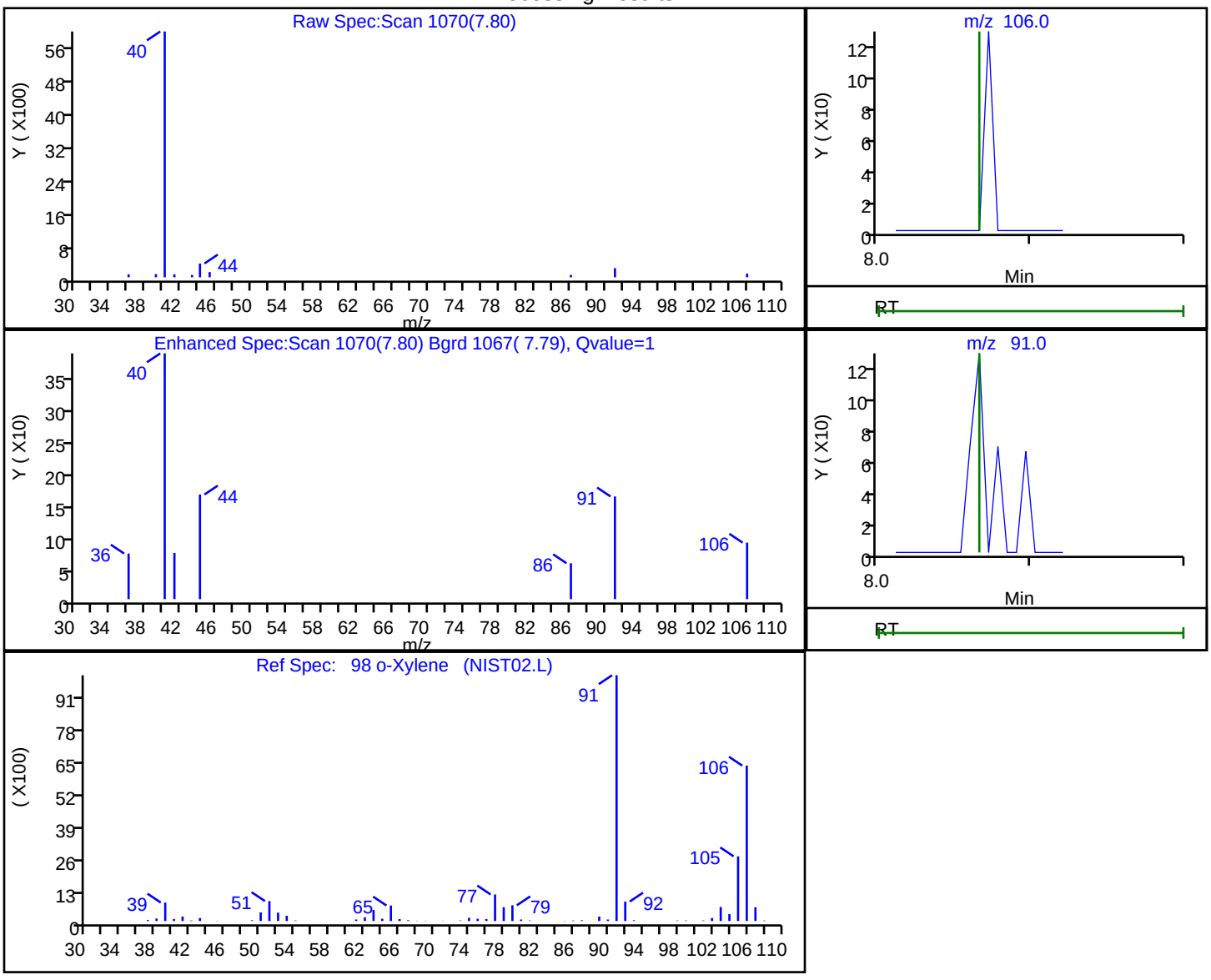
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

98 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
7.80	106.00	63	0.013251
7.80	91.00	137	

Reviewer: delpolitov, 02-Jul-2018 10:36:27
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

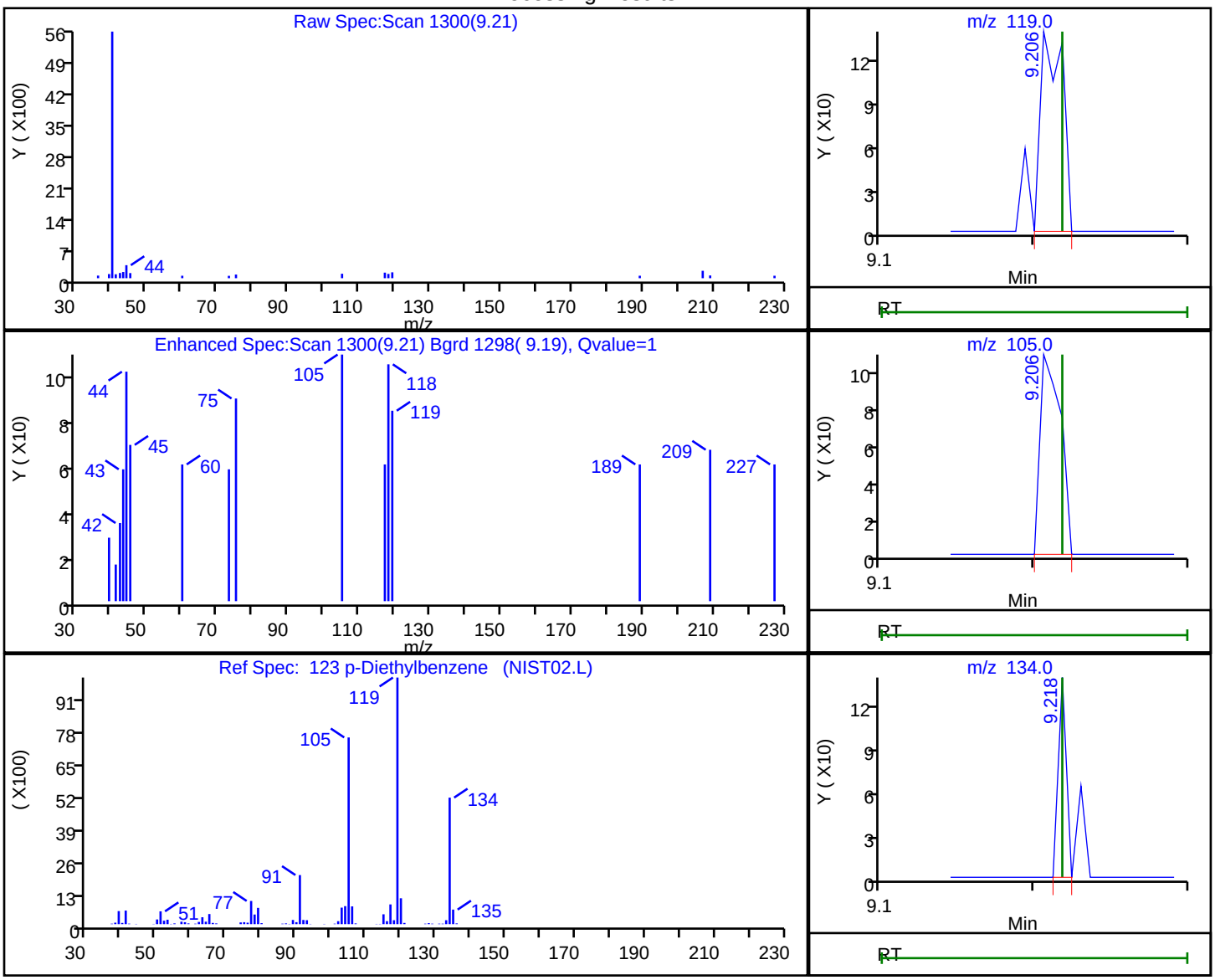
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 p-Diethylbenzene, CAS: 105-05-5

Processing Results



RT	Mass	Response	Amount
9.21	119.00	131	0.020402
9.21	105.00	94	
9.22	134.00	51	

Reviewer: delpolitov, 02-Jul-2018 10:36:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

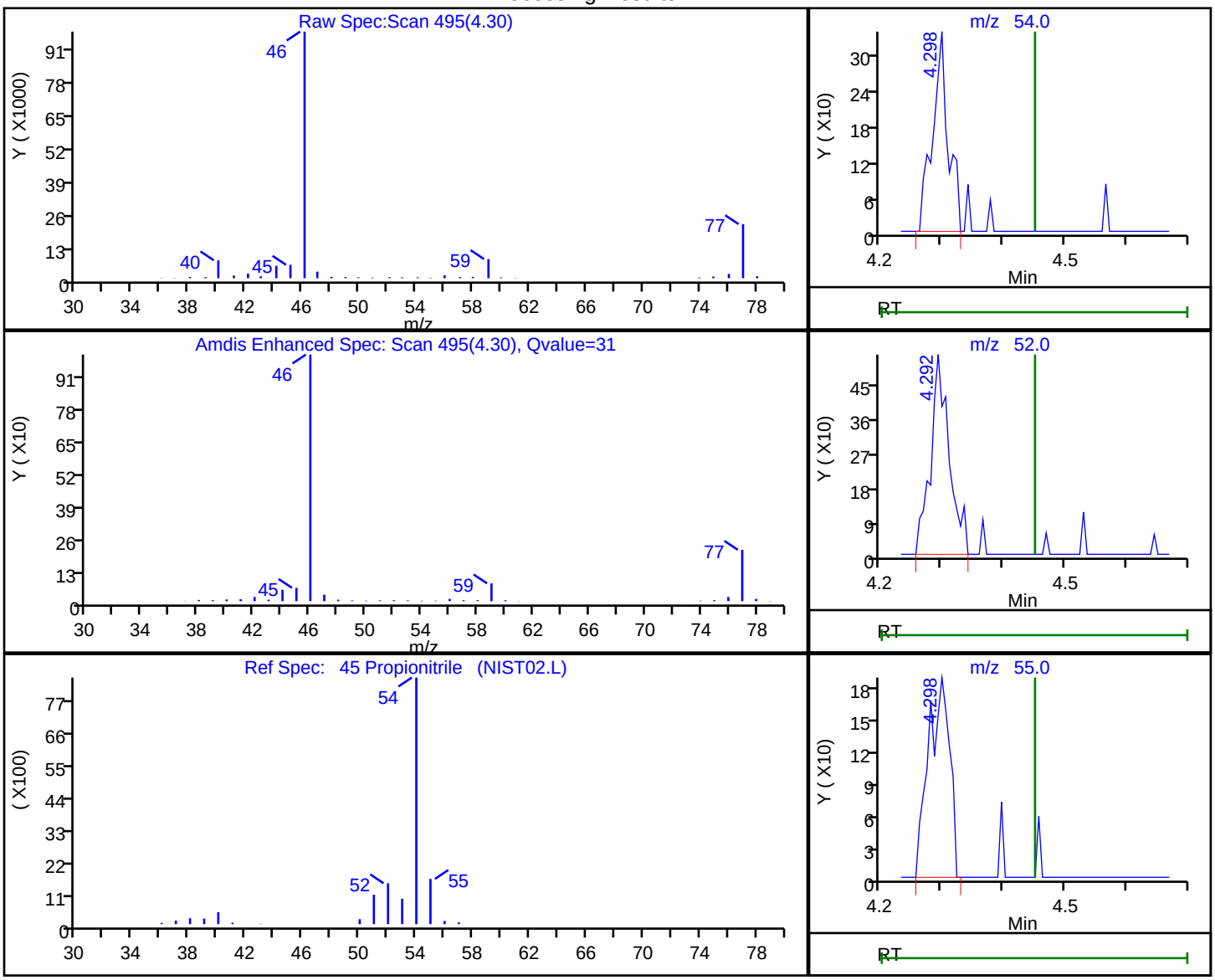
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Propionitrile, CAS: 107-12-0

Processing Results



RT	Mass	Response	Amount
4.30	54.00	593	1.217720
4.29	52.00	1111	
4.30	55.00	438	

Reviewer: delpolitov, 02-Jul-2018 10:36:15
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

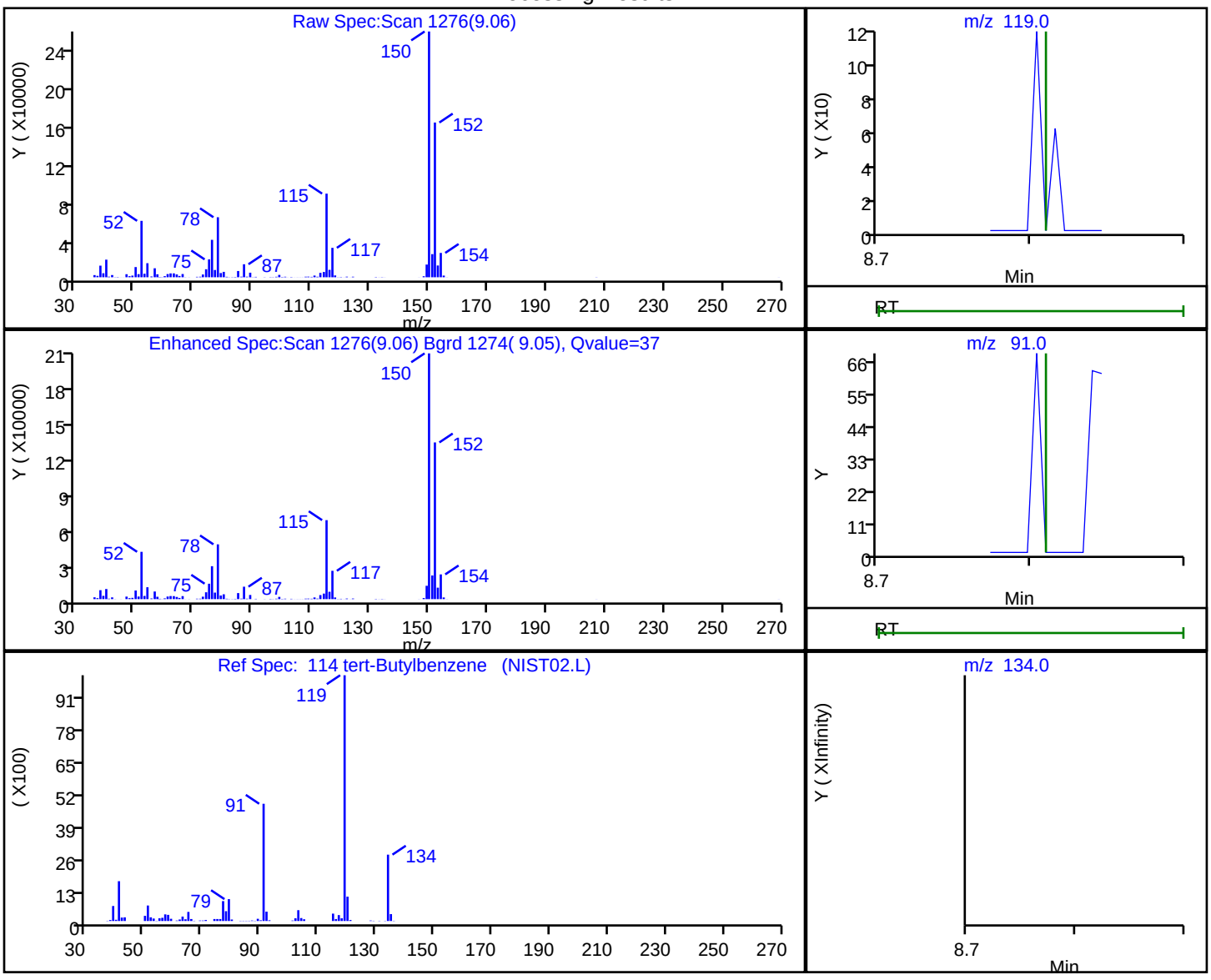
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 tert-Butylbenzene, CAS: 98-06-6

Processing Results



RT	Mass	Response	Amount
9.06	119.00	53	0.006187
9.06	91.00	451	
9.06	134.00	129	

Reviewer: delpolitov, 02-Jul-2018 10:36:31
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

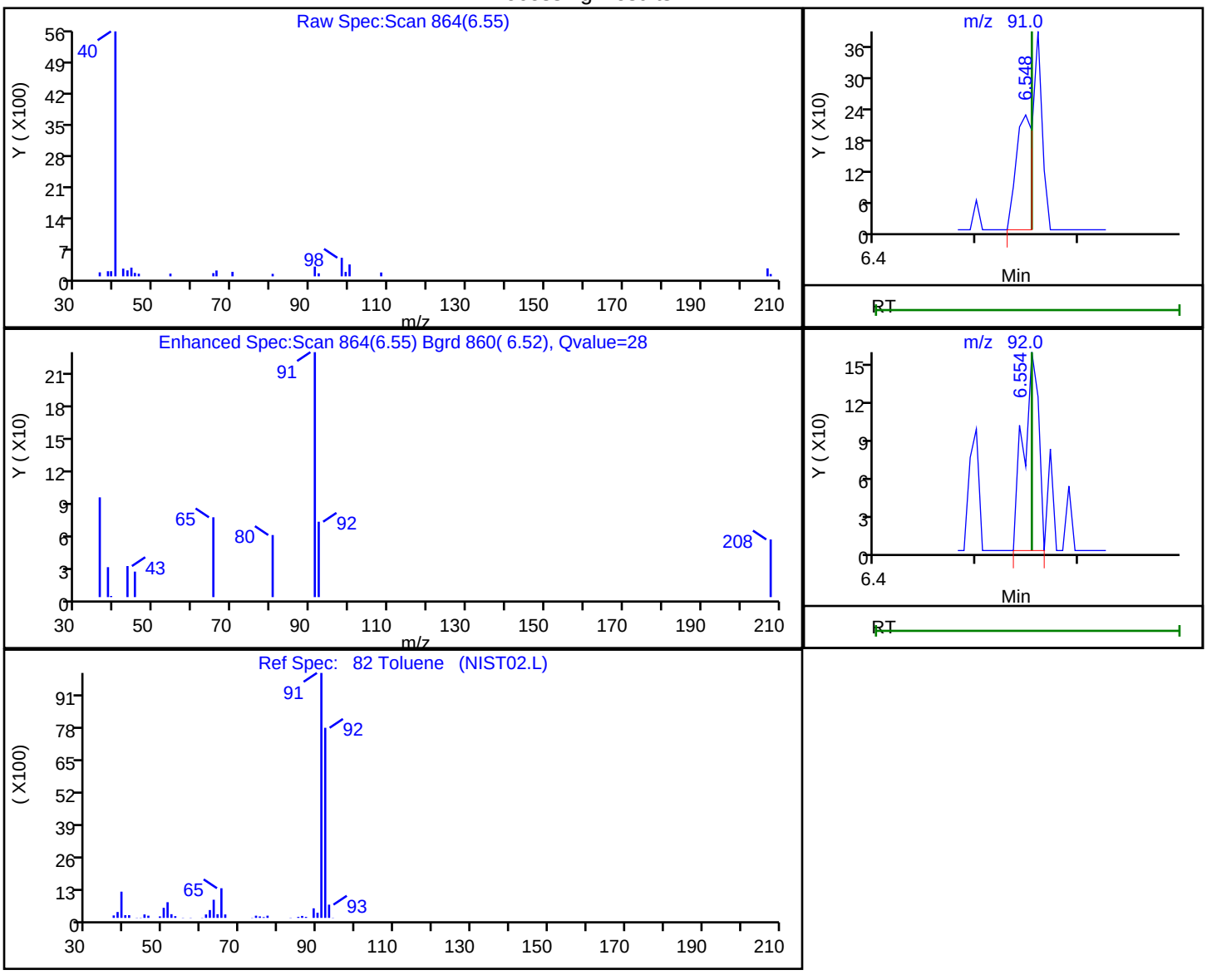
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

82 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
6.55	91.00	253	0.022882
6.55	92.00	166	

Reviewer: delpolitov, 02-Jul-2018 10:36:23
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

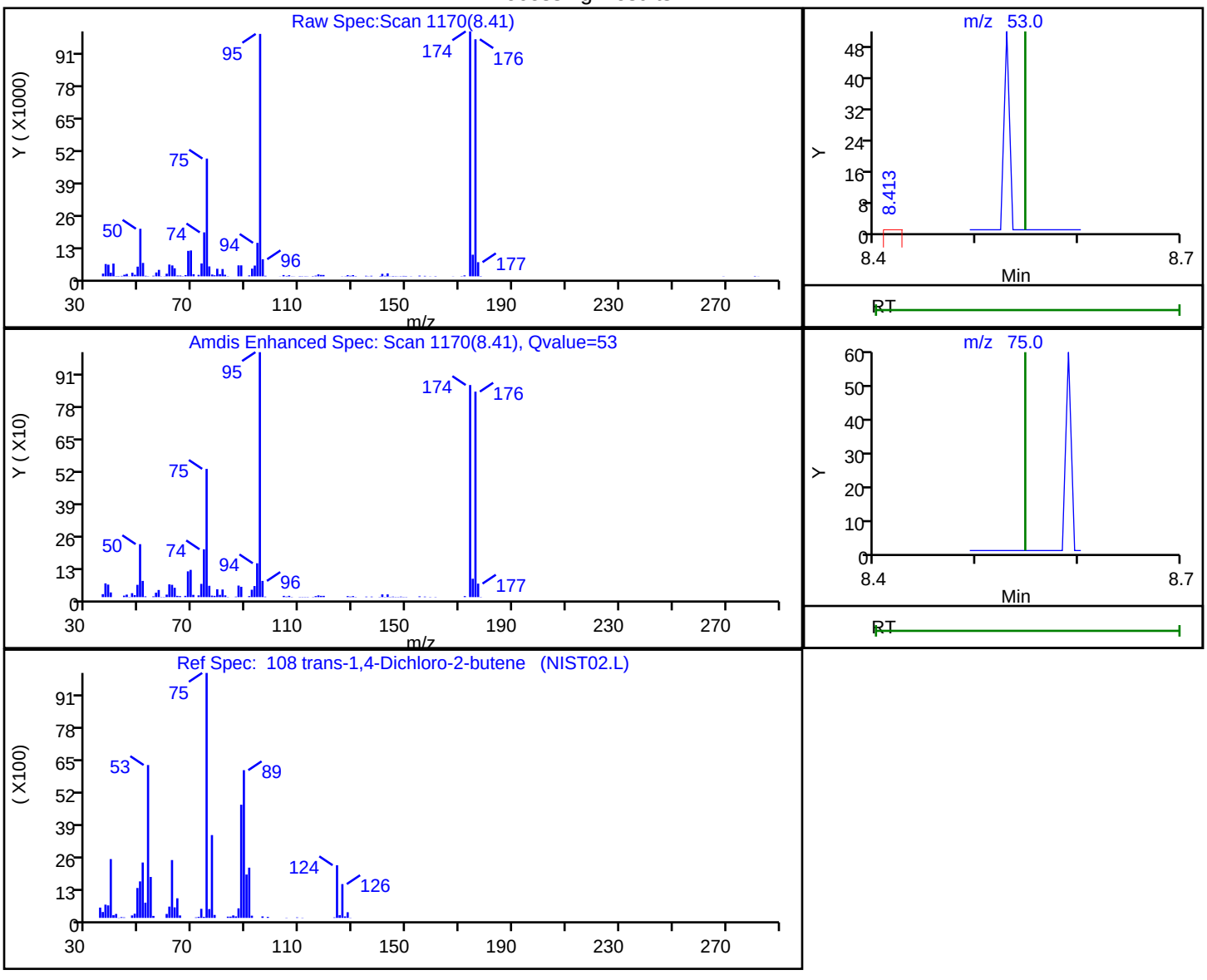
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

108 trans-1,4-Dichloro-2-butene, CAS: 110-57-6

Processing Results



RT	Mass	Response	Amount
8.41	53.00	58	12.289913
8.41	75.00	68534	

Reviewer: delpolitov, 02-Jul-2018 10:36:29
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

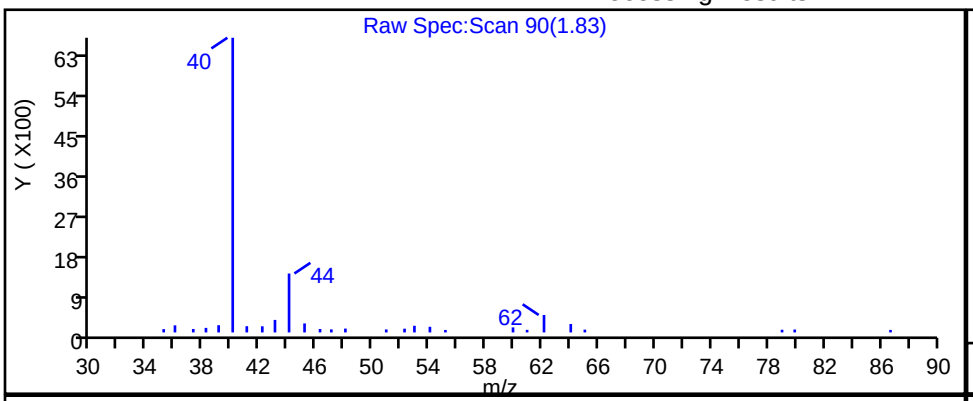
User Disabled Compound Report

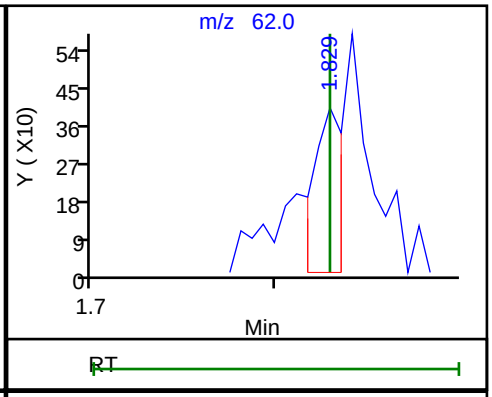
TestAmerica Edison

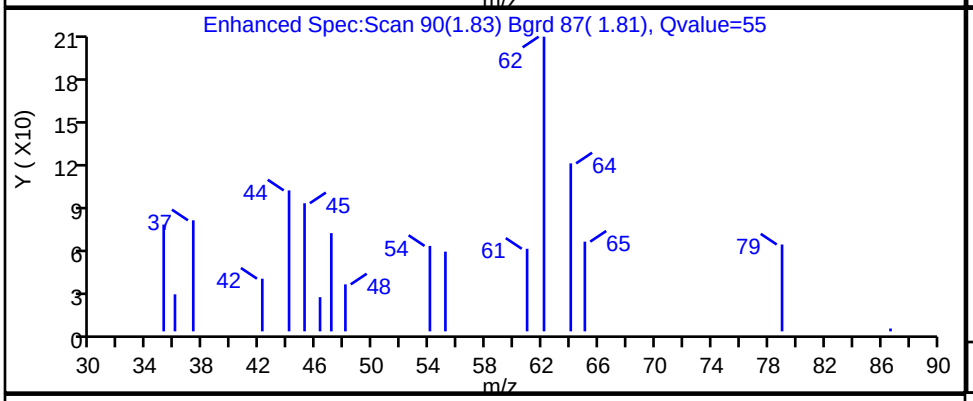
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58066.D
Injection Date: 02-Jul-2018 06:22:30 Instrument ID: CVOAMS1
Lims ID: STD7
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

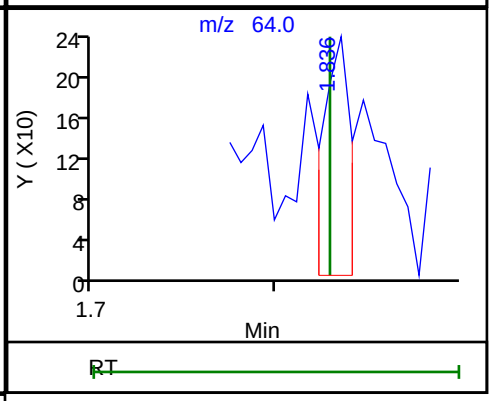
5 Vinyl chloride, CAS: 75-01-4

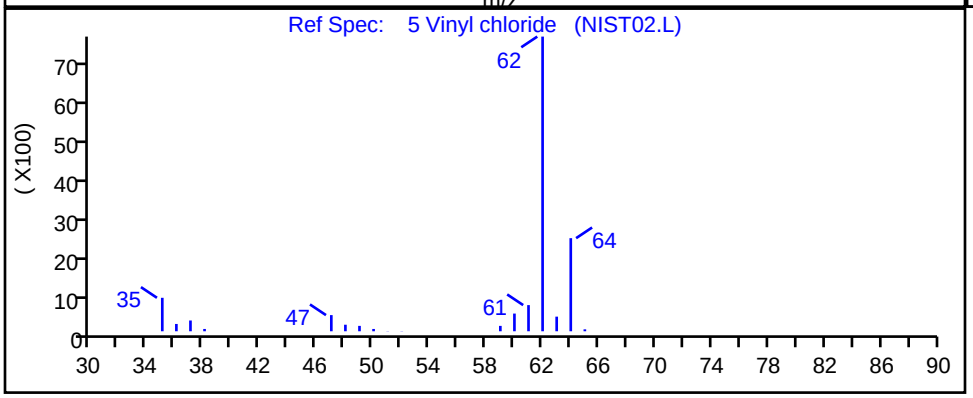
Processing Results











RT	Mass	Response	Amount
1.83	62.00	445	0.096298
1.84	64.00	251	

Reviewer: delpolitov, 02-Jul-2018 10:35:59
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58068.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 02-Jul-2018 07:08:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074723-006
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:46:02 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:41:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.525	0.000	77	6711	5.00	5.27	
3 Dichlorodifluoromethane	85	1.555	1.555	0.000	99	20140	5.00	5.63	
4 Chloromethane	50	1.732	1.738	-0.006	99	28161	5.00	6.09	
5 Vinyl chloride	62	1.829	1.829	0.000	98	23174	5.00	5.79	
6 Butadiene	39	1.835	1.842	-0.007	79	25506	5.00	5.94	
7 Bromomethane	94	2.146	2.152	-0.006	99	14631	5.00	6.13	
8 Chloroethane	64	2.226	2.213	0.013	99	15154	5.00	6.25	
11 Pentane	72	2.421	2.421	0.000	98	5428	10.0	11.0	
10 Dichlorofluoromethane	67	2.421	2.421	0.000	79	33064	5.00	5.89	
9 Trichlorofluoromethane	101	2.427	2.433	-0.006	51	25123	5.00	6.05	
12 Ethanol	46	2.597	2.622	-0.025	76	2186	200.0	192.2	a
13 Ethyl ether	59	2.634	2.634	0.000	90	13021	5.00	5.59	
14 2-Methyl-1,3-butadiene	53	2.652	2.652	0.000	96	14914	5.00	5.63	
15 1,2-Dichloro-1,1,2-trifluo	117	2.713	2.719	-0.006	83	11643	5.00	6.00	
16 Acrolein	56	2.817	2.823	-0.006	95	8244	20.0	19.9	
18 1,1-Dichloroethene	96	2.847	2.847	0.000	92	13124	5.00	5.76	
17 1,1,2-Trichloro-1,2,2-trif	101	2.854	2.854	0.000	53	13151	5.00	5.98	
19 Acetone	58	2.945	2.951	-0.006	85	7939	25.0	31.9	
20 Iodomethane	142	3.012	3.012	0.000	99	26230	5.00	6.26	
21 Carbon disulfide	76	3.049	3.043	0.006	100	49902	5.00	5.50	
22 Isopropyl alcohol	45	3.061	3.055	0.006	31	9059	50.0	53.6	
23 3-Chloro-1-propene	76	3.183	3.177	0.006	86	8404	5.00	5.10	
24 Methyl acetate	43	3.195	3.195	0.000	83	28312	10.0	11.7	
25 Cyclopentene	67	3.195	3.195	0.000	92	37932	5.00	5.59	
26 Acetonitrile	40	3.250	3.262	-0.012	98	10490	50.0	43.5	
27 Methylene Chloride	84	3.311	3.311	0.000	96	18265	5.00	5.60	
* 28 TBA-d9 (IS)	65	3.323	3.311	0.012	0	207249	1000.0	1000.0	
29 2-Methyl-2-propanol	59	3.390	3.390	0.000	91	16593	50.0	52.4	
30 Methyl tert-butyl ether	73	3.463	3.469	-0.006	98	42313	5.00	5.43	
31 trans-1,2-Dichloroethene	96	3.488	3.488	0.000	98	15884	5.00	5.55	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.567	3.567	0.000	94	70542	50.0	56.2	
33 Hexane	43	3.634	3.634	0.000	95	13940	5.00	5.18	
34 Isopropyl ether	45	3.835	3.841	-0.006	96	52607	5.00	5.30	
35 1,1-Dichloroethane	63	3.859	3.859	0.000	99	30528	5.00	5.61	
36 Vinyl acetate	86	3.878	3.878	0.000	100	5449	10.0	10.1	
37 2-Chloro-1,3-butadiene	88	3.902	3.896	0.006	94	12946	5.00	5.43	
38 Tert-butyl ethyl ether	59	4.115	4.116	-0.001	89	43971	5.00	5.38	
* 39 2-Butanone-d5	46	4.292	4.286	0.006	0	246025	250.0	250.0	
40 2,2-Dichloropropane	97	4.298	4.311	-0.013	50	5085	5.00	5.57	
41 cis-1,2-Dichloroethene	96	4.317	4.317	0.000	91	16953	5.00	5.38	
43 2-Butanone (MEK)	72	4.341	4.335	0.006	95	7617	25.0	26.2	
42 Ethyl acetate	70	4.341	4.335	0.006	92	2695	10.0	10.9	
44 Methyl acrylate	55	4.384	4.378	0.006	97	11963	5.00	4.87	a
45 Propionitrile	54	4.451	4.451	0.000	98	23267	50.0	51.0	
46 Chlorobromomethane	128	4.506	4.506	0.000	91	8567	5.00	5.58	
47 Tetrahydrofuran	72	4.506	4.506	0.000	55	3725	10.0	11.0	
48 Methacrylonitrile	67	4.530	4.530	0.000	95	58614	50.0	50.8	
49 Chloroform	83	4.548	4.548	0.000	97	27868	5.00	5.62	
50 Cyclohexane	56	4.658	4.658	0.000	95	25217	5.00	5.19	
51 1,1,1-Trichloroethane	97	4.670	4.670	0.000	80	21592	5.00	5.47	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.676	0.000	96	111913	50.0	53.1	
54 Carbon tetrachloride	117	4.762	4.762	0.000	97	17292	5.00	5.39	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	94	19561	5.00	5.23	
56 Isobutyl alcohol	43	4.908	4.890	0.018	91	25326	125.0	127.5	a
57 Isooctane	57	4.908	4.914	-0.006	98	47220	5.00	4.91	
58 Benzene	78	4.945	4.945	0.000	96	59331	5.00	5.74	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	140006	50.0	51.4	
60 Isopropyl acetate	43	4.981	4.981	0.000	88	46760	5.00	5.24	
61 Tert-amyl methyl ether	87	4.987	4.987	0.000	95	12053	5.00	5.17	
62 1,2-Dichloroethane	62	5.012	5.012	0.000	93	22083	5.00	5.48	
63 n-Heptane	71	5.054	5.054	0.000	94	10550	5.00	4.83	
* 64 Fluorobenzene	96	5.164	5.158	0.006	98	360769	50.0	50.0	
65 n-Butanol	56	5.377	5.377	0.000	95	5764	125.0	104.3	
66 Trichloroethene	95	5.420	5.420	0.000	97	13350	5.00	5.12	
67 Ethyl acrylate	56	5.512	5.512	0.000	94	9045	5.00	4.98	
68 Methylcyclohexane	83	5.518	5.524	-0.006	94	21553	5.00	5.04	
69 1,2-Dichloropropane	63	5.646	5.646	0.000	91	14544	5.00	5.16	
* 71 1,4-Dioxane-d8	96	5.682	5.688	-0.006	0	18444	1000.0	1000.0	
70 Methyl methacrylate	100	5.688	5.694	-0.006	93	5539	10.0	9.48	
72 n-Propyl acetate	43	5.731	5.731	0.000	98	17742	5.00	4.56	
73 1,4-Dioxane	88	5.737	5.731	0.006	29	2693	100.0	104.5	
74 Dibromomethane	93	5.749	5.749	0.000	96	8769	5.00	5.08	
75 Dichlorobromomethane	83	5.865	5.859	0.006	98	17212	5.00	5.13	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	80	6489	5.00	4.35	
77 2-Nitropropane	41	6.139	6.140	-0.001	87	6241	10.0	9.07	
78 Epichlorohydrin	57	6.225	6.225	0.000	99	23299	100.0	102.3	
79 cis-1,3-Dichloropropene	75	6.274	6.274	0.000	94	15493	5.00	4.46	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	99	68879	25.0	25.1	
$ 81 Toluene-d8 (Surr)	98	6.487	6.487	0.000	98	338155	50.0	50.9	
82 Toluene	91	6.548	6.554	-0.006	93	50591	5.00	5.21	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	97	13361	5.00	4.42	
84 Ethyl methacrylate	69	6.816	6.816	0.000	91	13959	5.00	4.96	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.962	6.963	-0.001	95	9210	5.00	5.24	
86 Tetrachloroethene	166	6.999	6.999	0.000	95	12997	5.00	5.57	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	96	16919	5.00	5.03	
88 2-Hexanone	43	7.133	7.133	0.000	97	40741	25.0	24.6	
89 n-Butyl acetate	73	7.194	7.194	0.000	98	2987	5.00	5.16	
90 Chlorodibromomethane	129	7.249	7.249	0.000	97	9790	5.00	5.04	
91 Ethylene Dibromide	107	7.353	7.353	0.000	100	9644	5.00	4.95	
* 92 Chlorobenzene-d5	117	7.657	7.658	-0.001	87	233055	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	92	32256	5.00	5.24	
94 Ethylbenzene	106	7.725	7.725	0.000	99	17635	5.00	5.31	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	92	11590	5.00	5.14	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	98	20609	5.00	5.12	
97 n-Butyl acrylate	73	8.029	8.029	0.000	95	8265	5.00	4.95	
98 o-Xylene	106	8.066	8.066	0.000	94	21049	5.00	5.10	
99 Styrene	104	8.084	8.084	0.000	95	35122	5.00	5.09	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	88	26872	5.00	4.62	
101 Bromoform	173	8.224	8.224	0.000	94	6059	5.00	5.00	
102 Isopropylbenzene	105	8.279	8.279	0.000	97	55637	5.00	5.11	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	90	113347	50.0	54.2	
104 Bromobenzene	156	8.499	8.499	0.000	97	15405	5.00	4.94	
105 1,1,2,2-Tetrachloroethane	83	8.505	8.505	0.000	97	17609	5.00	5.05	
106 N-Propylbenzene	91	8.523	8.529	-0.006	98	72209	5.00	4.90	
107 1,2,3-Trichloropropane	110	8.541	8.541	0.000	97	5133	5.00	5.42	
108 trans-1,4-Dichloro-2-buten	53	8.541	8.548	-0.007	67	1985	5.00	3.52	
109 4-Ethyltoluene	105	8.590	8.590	0.000	98	62814	5.00	5.06	
110 2-Chlorotoluene	91	8.596	8.602	-0.006	97	51102	5.00	4.83	
111 1,3,5-Trimethylbenzene	105	8.627	8.627	0.000	93	49366	5.00	4.77	
113 4-Chlorotoluene	91	8.663	8.670	-0.007	98	44866	5.00	4.94	
112 Butyl Methacrylate	87	8.663	8.670	-0.007	95	16924	5.00	4.73	
114 tert-Butylbenzene	119	8.804	8.810	-0.006	93	37641	5.00	4.47	
115 1,2,4-Trimethylbenzene	105	8.840	8.846	-0.006	98	51686	5.00	4.81	
116 sec-Butylbenzene	105	8.926	8.932	-0.006	98	61368	5.00	4.68	
117 4-Isopropyltoluene	119	8.999	9.005	-0.006	98	54152	5.00	4.80	
118 1,3-Dichlorobenzene	146	9.017	9.023	-0.006	94	32790	5.00	5.12	
* 119 1,4-Dichlorobenzene-d4	152	9.060	9.066	-0.006	97	153490	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.072	9.078	-0.006	94	34882	5.00	5.24	
136 1,2,3-Trimethylbenzene	105	9.078	9.084	-0.006	97	58451	5.00	4.97	
121 Benzyl chloride	91	9.151	9.157	-0.006	98	26333	5.00	4.48	
122 2,3-Dihydroindene	117	9.200	9.200	0.000	94	65317	5.00	5.20	
123 p-Diethylbenzene	119	9.212	9.218	-0.006	90	37384	5.00	5.17	
124 n-Butylbenzene	92	9.230	9.236	-0.006	98	32001	5.00	4.93	
125 1,2-Dichlorobenzene	146	9.291	9.297	-0.006	96	33112	5.00	5.27	
126 1,2,4,5-Tetramethylbenzene	119	9.688	9.694	-0.006	97	47240	5.00	4.39	
127 1,2-Dibromo-3-Chloropropan	75	9.779	9.785	-0.006	93	3208	5.00	4.94	
128 1,3,5-Trichlorobenzene	180	9.870	9.877	-0.007	96	24883	5.00	5.20	
129 1,2,4-Trichlorobenzene	180	10.328	10.334	-0.006	93	20523	5.00	4.85	
130 Hexachlorobutadiene	225	10.401	10.407	-0.006	93	9924	5.00	4.98	
131 Naphthalene	128	10.541	10.547	-0.006	99	44137	5.00	4.34	
132 1,2,3-Trichlorobenzene	180	10.742	10.748	-0.006	95	18436	5.00	4.87	
S 133 1,2-Dichloroethene, Total	100				0		10.0	10.9	
S 134 Xylenes, Total	100				0		10.0	10.2	
S 135 Total BTEX	1				0		25.0	26.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00261	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

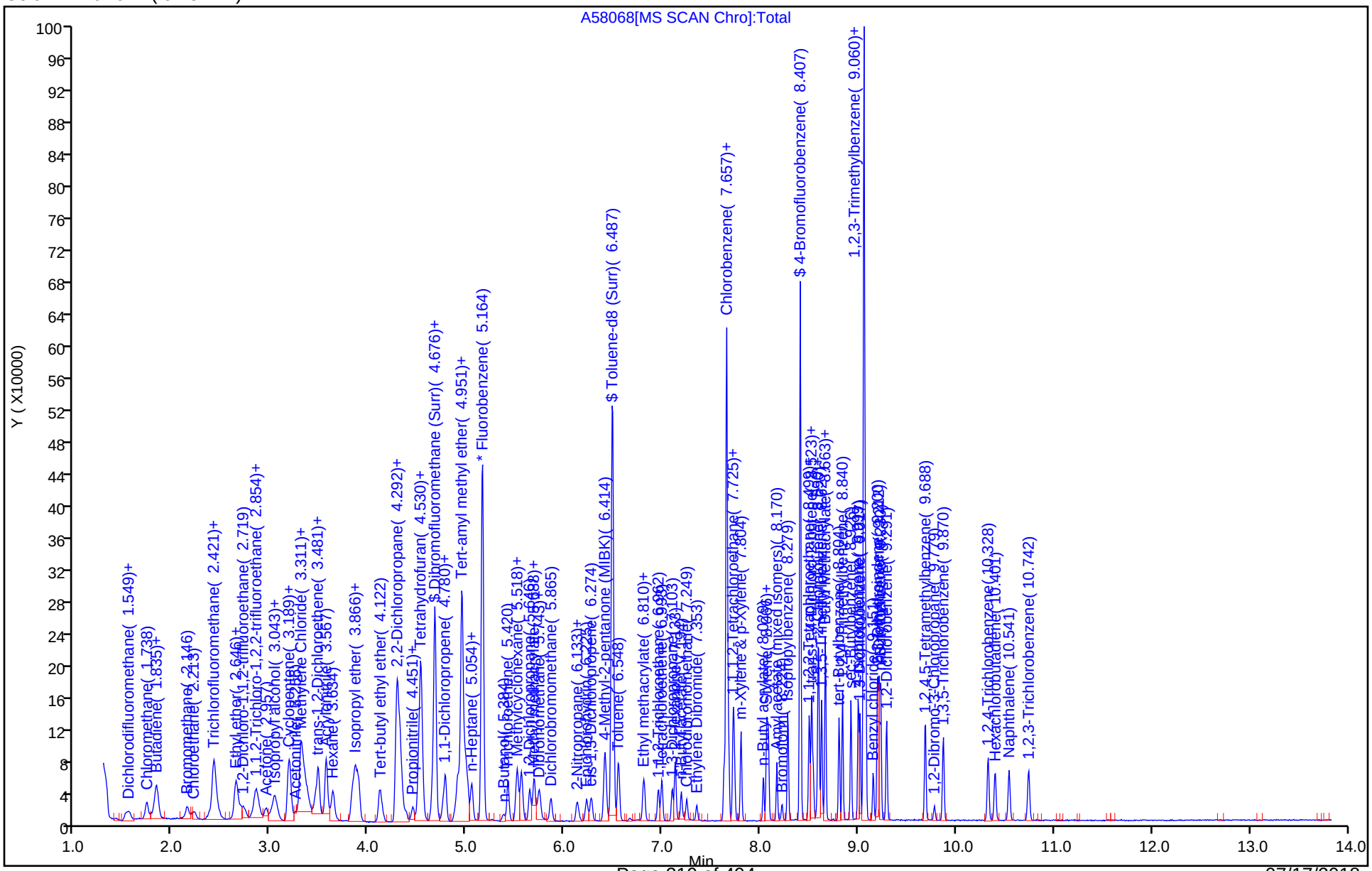
Report Date: 06-Jul-2018 11:46:10 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58068.D

Injection Date:	02-Jul-2018 07:08:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD5			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

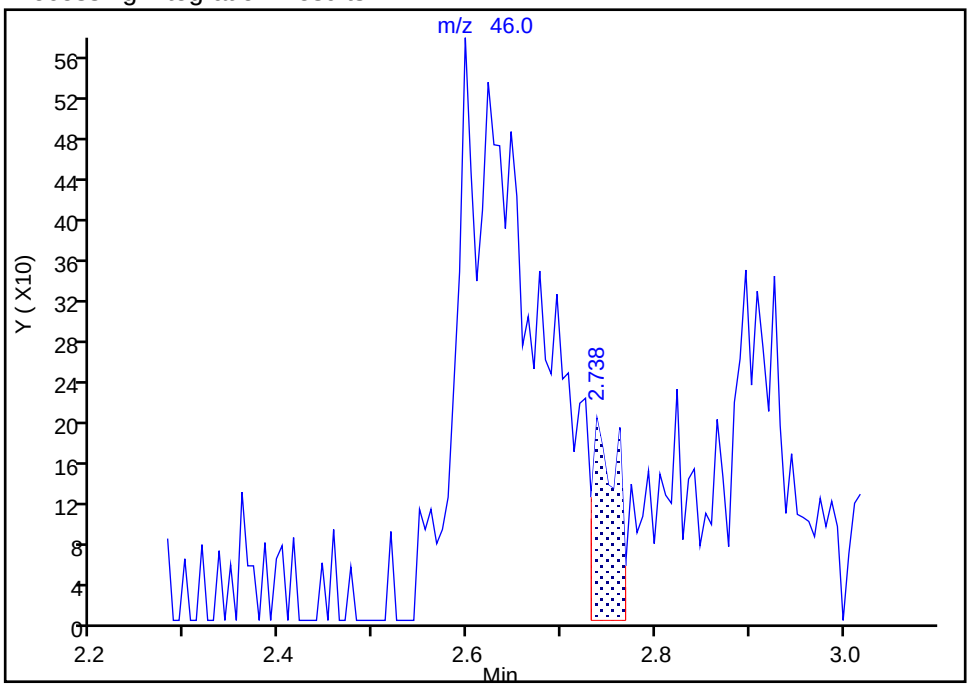
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58068.D
Injection Date: 02-Jul-2018 07:08:30 Instrument ID: CVOAMS1
Lims ID: STD5
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

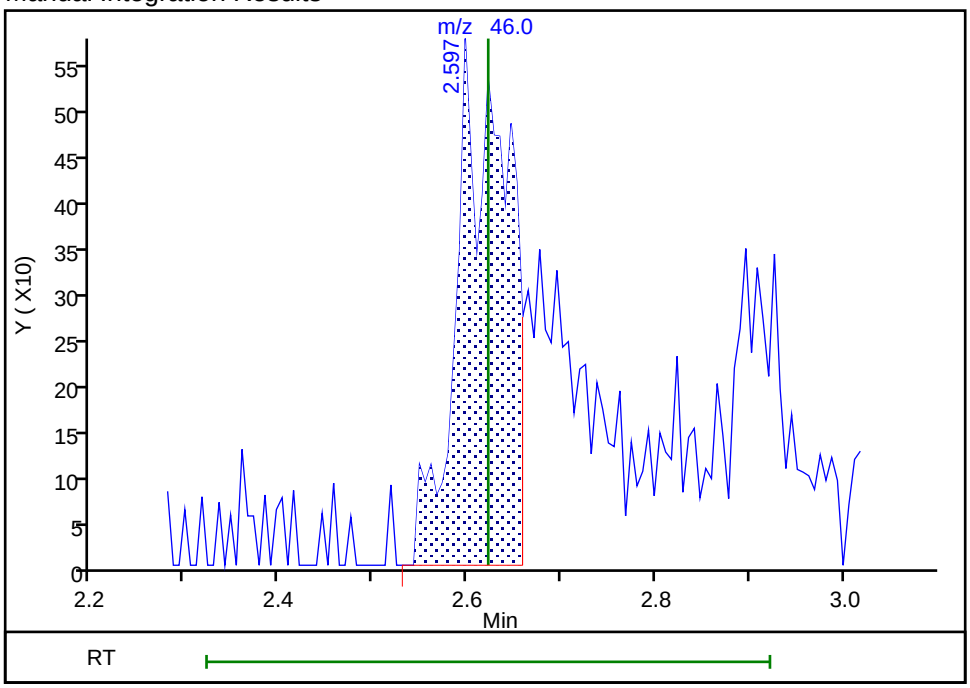
Processing Integration Results

RT: 2.74
Area: 367
Amount: 35.644437
Amount Units: ug/l



Manual Integration Results

RT: 2.60
Area: 2186
Amount: 192.1959
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:40:57
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

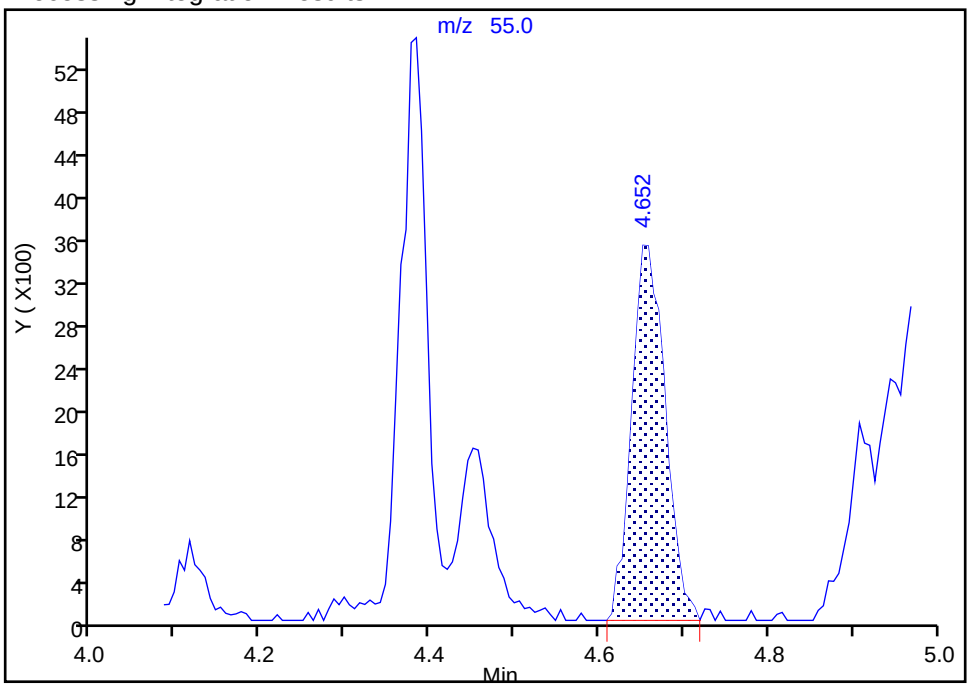
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58068.D
Injection Date: 02-Jul-2018 07:08:30 Instrument ID: CVOAMS1
Lims ID: STD5
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

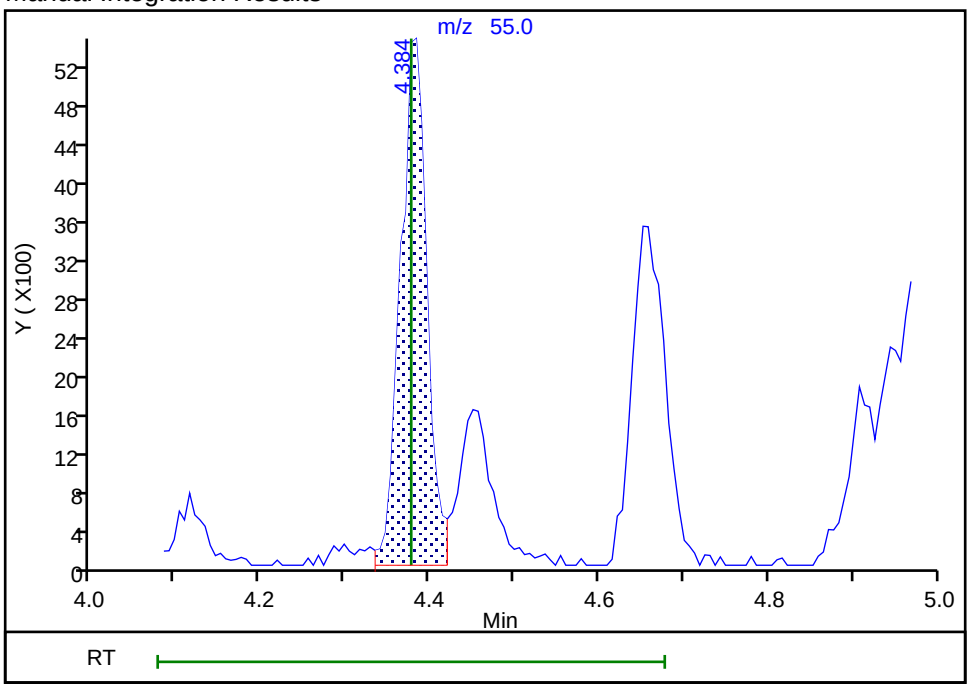
Processing Integration Results

RT: 4.65
Area: 9711
Amount: 4.028939
Amount Units: ug/l



Manual Integration Results

RT: 4.38
Area: 11963
Amount: 4.867374
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:41:12
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

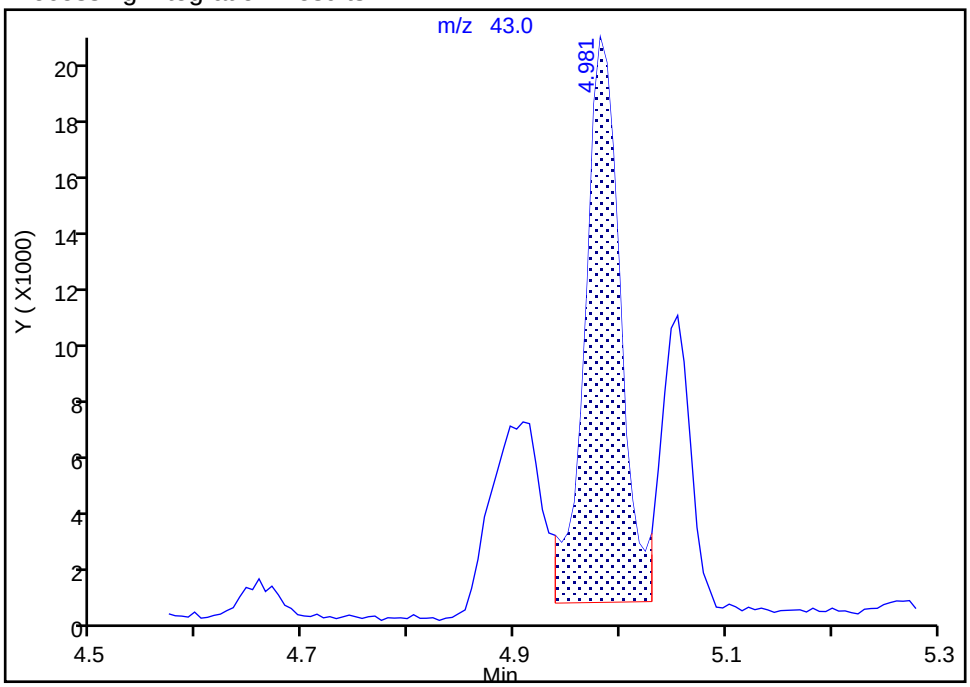
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58068.D				
Injection Date:	02-Jul-2018 07:08:30	Instrument ID:	CVOAMS1		
Lims ID:	STD5				
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	5	Worklist Smp#:	6
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

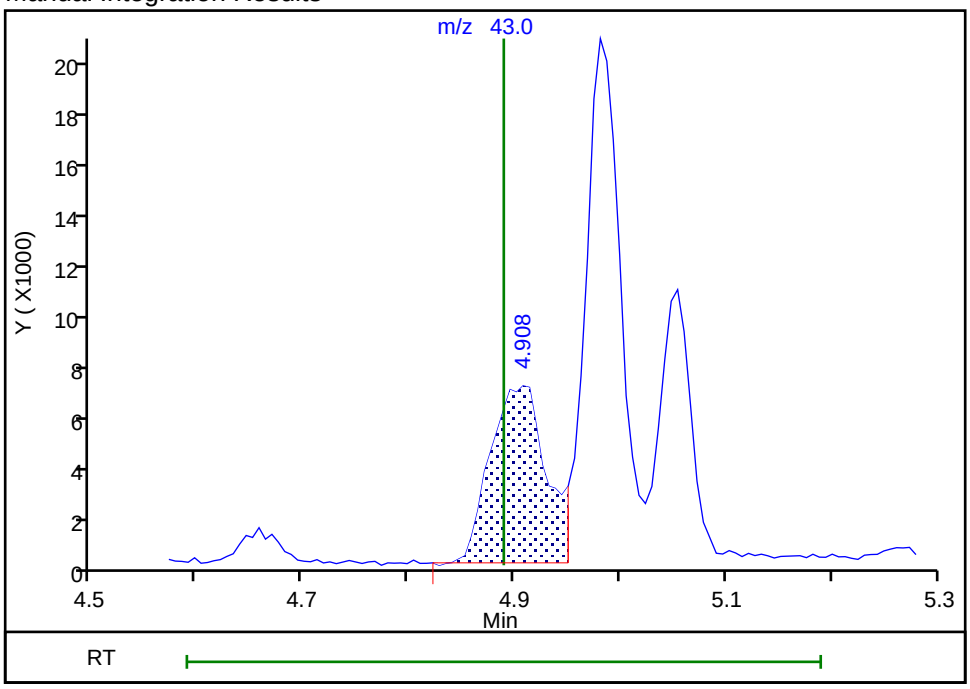
Processing Integration Results

RT: 4.98
Area: 46175
Amount: 199.7295
Amount Units: ug/l



Manual Integration Results

RT: 4.91
Area: 25326
Amount: 127.4592
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:41:18

Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58069.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 02-Jul-2018 07:32:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074723-007
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:46:27 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:28:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.525	1.525	0.000	88	27335	20.0	20.3	
3 Dichlorodifluoromethane	85	1.555	1.555	0.000	98	74395	20.0	19.7	
4 Chloromethane	50	1.738	1.738	0.000	99	99711	20.0	20.4	
5 Vinyl chloride	62	1.829	1.829	0.000	98	86961	20.0	20.6	
6 Butadiene	39	1.842	1.842	0.000	98	94946	20.0	20.9	
7 Bromomethane	94	2.152	2.152	0.000	98	51963	20.0	20.6	
8 Chloroethane	64	2.213	2.213	0.000	100	51769	20.0	20.2	
10 Dichlorofluoromethane	67	2.421	2.421	0.000	76	123338	20.0	20.8	
11 Pentane	72	2.421	2.421	0.000	97	20068	40.0	42.1	
9 Trichlorofluoromethane	101	2.433	2.433	0.000	59	86813	20.0	19.8	
12 Ethanol	46	2.622	2.622	0.000	88	11542	800.0	1052.8	
13 Ethyl ether	59	2.634	2.634	0.000	91	50644	20.0	20.6	
14 2-Methyl-1,3-butadiene	53	2.652	2.652	0.000	95	57198	20.0	20.5	
15 1,2-Dichloro-1,1,2-trifluo	117	2.719	2.719	0.000	93	42791	20.0	20.9	
16 Acrolein	56	2.823	2.823	0.000	95	17865	40.0	44.6	
18 1,1-Dichloroethene	96	2.847	2.847	0.000	92	48095	20.0	20.0	
17 1,1,2-Trichloro-1,2,2-trif	101	2.854	2.854	0.000	52	47683	20.0	20.5	
19 Acetone	58	2.951	2.951	0.000	85	28149	100.0	102.7	
20 Iodomethane	142	3.012	3.012	0.000	100	89785	20.0	20.3	
21 Carbon disulfide	76	3.043	3.043	0.000	100	185632	20.0	20.6	
22 Isopropyl alcohol	45	3.055	3.055	0.000	35	37811	200.0	232.2	
23 3-Chloro-1-propene	76	3.177	3.177	0.000	87	34793	20.0	20.0	
25 Cyclopentene	67	3.195	3.195	0.000	89	148695	20.0	20.8	
24 Methyl acetate	43	3.195	3.195	0.000	78	101799	40.0	39.7	
26 Acetonitrile	40	3.262	3.262	0.000	98	54235	200.0	233.3	
* 28 TBA-d9 (IS)	65	3.311	3.311	0.000	0	199768	1000.0	1000.0	
27 Methylene Chloride	84	3.311	3.311	0.000	98	69833	20.0	20.3	
29 2-Methyl-2-propanol	59	3.390	3.390	0.000	91	58211	200.0	190.7	M
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	98	169673	20.0	20.6	
31 trans-1,2-Dichloroethene	96	3.488	3.488	0.000	98	60813	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.567	3.567	0.000	94	267016	200.0	201.4	
33 Hexane	43	3.634	3.634	0.000	95	55826	20.0	19.7	
34 Isopropyl ether	45	3.841	3.841	0.000	95	215966	20.0	20.6	
35 1,1-Dichloroethane	63	3.859	3.859	0.000	99	114319	20.0	19.9	
36 Vinyl acetate	86	3.878	3.878	0.000	100	22890	40.0	41.5	
37 2-Chloro-1,3-butadiene	88	3.896	3.896	0.000	92	51021	20.0	20.3	
38 Tert-butyl ethyl ether	59	4.116	4.116	0.000	89	176701	20.0	20.5	
* 39 2-Butanone-d5	46	4.286	4.286	0.000	0	270926	250.0	250.0	
40 2,2-Dichloropropane	97	4.311	4.311	0.000	94	19883	20.0	20.6	
41 cis-1,2-Dichloroethene	96	4.317	4.317	0.000	93	66443	20.0	20.0	
42 Ethyl acetate	70	4.335	4.335	0.000	95	10839	40.0	39.9	
43 2-Butanone (MEK)	72	4.335	4.335	0.000	96	31966	100.0	99.9	
44 Methyl acrylate	55	4.378	4.378	0.000	99	51697	20.0	19.9	
45 Propionitrile	54	4.451	4.451	0.000	98	91642	200.0	208.2	
47 Tetrahydrofuran	72	4.506	4.506	0.000	62	14788	40.0	39.6	
46 Chlorobromomethane	128	4.506	4.506	0.000	94	32606	20.0	20.1	
48 Methacrylonitrile	67	4.530	4.530	0.000	95	245069	200.0	201.0	
49 Chloroform	83	4.548	4.548	0.000	98	105433	20.0	20.1	
50 Cyclohexane	56	4.658	4.658	0.000	96	104658	20.0	20.4	
51 1,1,1-Trichloroethane	97	4.670	4.670	0.000	97	86082	20.0	20.7	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.676	0.000	97	112114	50.0	50.4	
54 Carbon tetrachloride	117	4.762	4.762	0.000	96	69044	20.0	20.4	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	95	77559	20.0	19.6	
56 Isobutyl alcohol	43	4.890	4.890	0.000	92	98749	500.0	515.6	
57 Isooctane	57	4.914	4.914	0.000	98	209187	20.0	20.6	
58 Benzene	78	4.945	4.945	0.000	97	230479	20.0	19.3	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	142306	50.0	49.5	
60 Isopropyl acetate	43	4.981	4.981	0.000	95	185421	20.0	19.7	
61 Tert-amyl methyl ether	87	4.987	4.987	0.000	92	48975	20.0	19.9	
62 1,2-Dichloroethane	62	5.012	5.012	0.000	96	84501	20.0	19.9	
63 n-Heptane	71	5.054	5.054	0.000	95	45271	20.0	19.6	
* 64 Fluorobenzene	96	5.158	5.158	0.000	98	380989	50.0	50.0	
65 n-Butanol	56	5.377	5.377	0.000	94	26966	500.0	506.0	
66 Trichloroethene	95	5.420	5.420	0.000	97	54605	20.0	19.8	
67 Ethyl acrylate	56	5.512	5.512	0.000	97	37099	20.0	19.3	
68 Methylcyclohexane	83	5.524	5.524	0.000	90	92031	20.0	20.4	
69 1,2-Dichloropropane	63	5.646	5.646	0.000	92	58730	20.0	19.7	
* 71 1,4-Dioxane-d8	96	5.688	5.688	0.000	0	20036	1000.0	1000.0	
70 Methyl methacrylate	100	5.694	5.694	0.000	94	25193	40.0	40.8	
73 1,4-Dioxane	88	5.731	5.731	0.000	28	11382	400.0	406.6	
72 n-Propyl acetate	43	5.731	5.731	0.000	98	82787	20.0	20.2	
74 Dibromomethane	93	5.749	5.749	0.000	97	35546	20.0	19.5	
75 Dichlorobromomethane	83	5.859	5.859	0.000	99	70112	20.0	19.8	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	97	32355	20.0	20.5	
77 2-Nitropropane	41	6.140	6.140	0.000	98	27829	40.0	38.3	
78 Epichlorohydrin	57	6.225	6.225	0.000	99	109783	400.0	437.6	
79 cis-1,3-Dichloropropene	75	6.274	6.274	0.000	94	77766	20.0	19.4	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	99	308729	100.0	102.0	
$ 81 Toluene-d8 (Surr)	98	6.487	6.487	0.000	99	380927	50.0	49.7	
82 Toluene	91	6.554	6.554	0.000	93	215322	20.0	19.2	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	98	67483	20.0	19.3	
84 Ethyl methacrylate	69	6.816	6.816	0.000	90	63213	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.963	6.963	0.000	95	40146	20.0	19.8	
86 Tetrachloroethene	166	6.999	6.999	0.000	97	52638	20.0	19.6	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	95	76907	20.0	19.8	
88 2-Hexanone	43	7.133	7.133	0.000	99	196429	100.0	107.9	
89 n-Butyl acetate	73	7.194	7.194	0.000	97	13440	20.0	20.1	
90 Chlorodibromomethane	129	7.249	7.249	0.000	98	43801	20.0	19.6	
91 Ethylene Dibromide	107	7.353	7.353	0.000	99	45468	20.0	20.2	
* 92 Chlorobenzene-d5	117	7.658	7.658	0.000	89	268991	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	93	143499	20.0	20.2	
94 Ethylbenzene	106	7.725	7.725	0.000	99	75432	20.0	19.7	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	93	51714	20.0	19.9	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	98	95155	20.0	20.5	
97 n-Butyl acrylate	73	8.029	8.029	0.000	95	37711	20.0	19.6	
98 o-Xylene	106	8.066	8.066	0.000	94	97574	20.0	20.5	
99 Styrene	104	8.084	8.084	0.000	93	163270	20.0	20.5	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	88	123235	20.0	19.1	
101 Bromoform	173	8.224	8.224	0.000	96	27791	20.0	19.8	
102 Isopropylbenzene	105	8.279	8.279	0.000	97	254183	20.0	20.2	
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	95	129169	50.0	53.5	
104 Bromobenzene	156	8.499	8.499	0.000	97	66322	20.0	19.2	
105 1,1,2,2-Tetrachloroethane	83	8.505	8.505	0.000	98	75535	20.0	19.5	
106 N-Propylbenzene	91	8.529	8.529	0.000	99	321069	20.0	19.6	
107 1,2,3-Trichloropropane	110	8.541	8.541	0.000	96	21031	20.0	20.0	
108 trans-1,4-Dichloro-2-buten	53	8.548	8.548	0.000	77	11330	20.0	17.8	
109 4-Ethyltoluene	105	8.590	8.590	0.000	98	272228	20.0	19.7	
110 2-Chlorotoluene	91	8.602	8.602	0.000	98	227673	20.0	19.4	
111 1,3,5-Trimethylbenzene	105	8.627	8.627	0.000	93	231495	20.0	20.1	
112 Butyl Methacrylate	87	8.670	8.670	0.000	68	79418	20.0	18.6	
113 4-Chlorotoluene	91	8.670	8.670	0.000	96	198373	20.0	19.7	
114 tert-Butylbenzene	119	8.810	8.810	0.000	94	182759	20.0	19.6	
115 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	98	238660	20.0	20.0	
116 sec-Butylbenzene	105	8.932	8.932	0.000	98	285768	20.0	19.6	
117 4-Isopropyltoluene	119	9.005	9.005	0.000	98	252529	20.0	20.1	
118 1,3-Dichlorobenzene	146	9.023	9.023	0.000	96	142619	20.0	20.1	
* 119 1,4-Dichlorobenzene-d4	152	9.066	9.066	0.000	96	170469	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.078	9.078	0.000	94	146645	20.0	19.8	
136 1,2,3-Trimethylbenzene	105	9.084	9.084	0.000	98	258550	20.0	19.8	
121 Benzyl chloride	91	9.157	9.157	0.000	98	121987	20.0	18.7	
122 2,3-Dihydroindene	117	9.200	9.200	0.000	94	282510	20.0	20.2	
123 p-Diethylbenzene	119	9.218	9.218	0.000	91	168806	20.0	21.0	
124 n-Butylbenzene	92	9.236	9.236	0.000	98	145907	20.0	20.2	
125 1,2-Dichlorobenzene	146	9.297	9.297	0.000	95	139801	20.0	20.0	
126 1,2,4,5-Tetramethylbenzene	119	9.694	9.694	0.000	97	234582	20.0	19.6	
127 1,2-Dibromo-3-Chloropropan	75	9.785	9.785	0.000	93	12701	20.0	17.6	
128 1,3,5-Trichlorobenzene	180	9.877	9.877	0.000	96	105648	20.0	19.9	
129 1,2,4-Trichlorobenzene	180	10.334	10.334	0.000	94	90031	20.0	19.1	
130 Hexachlorobutadiene	225	10.407	10.407	0.000	93	41177	20.0	18.6	
131 Naphthalene	128	10.547	10.547	0.000	99	207263	20.0	18.4	
132 1,2,3-Trichlorobenzene	180	10.748	10.748	0.000	94	78655	20.0	18.7	
S 133 1,2-Dichloroethene, Total	100				0		40.0	40.1	
S 134 Xylenes, Total	100				0		40.0	40.9	
S 135 Total BTEX	1				0		100.0	99.1	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GAS Hi_00261	Amount Added:	2.00	Units: uL	
MIX I Hi_00095	Amount Added:	2.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	2.00	Units: uL	
Ethanol mix_00017	Amount Added:	2.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

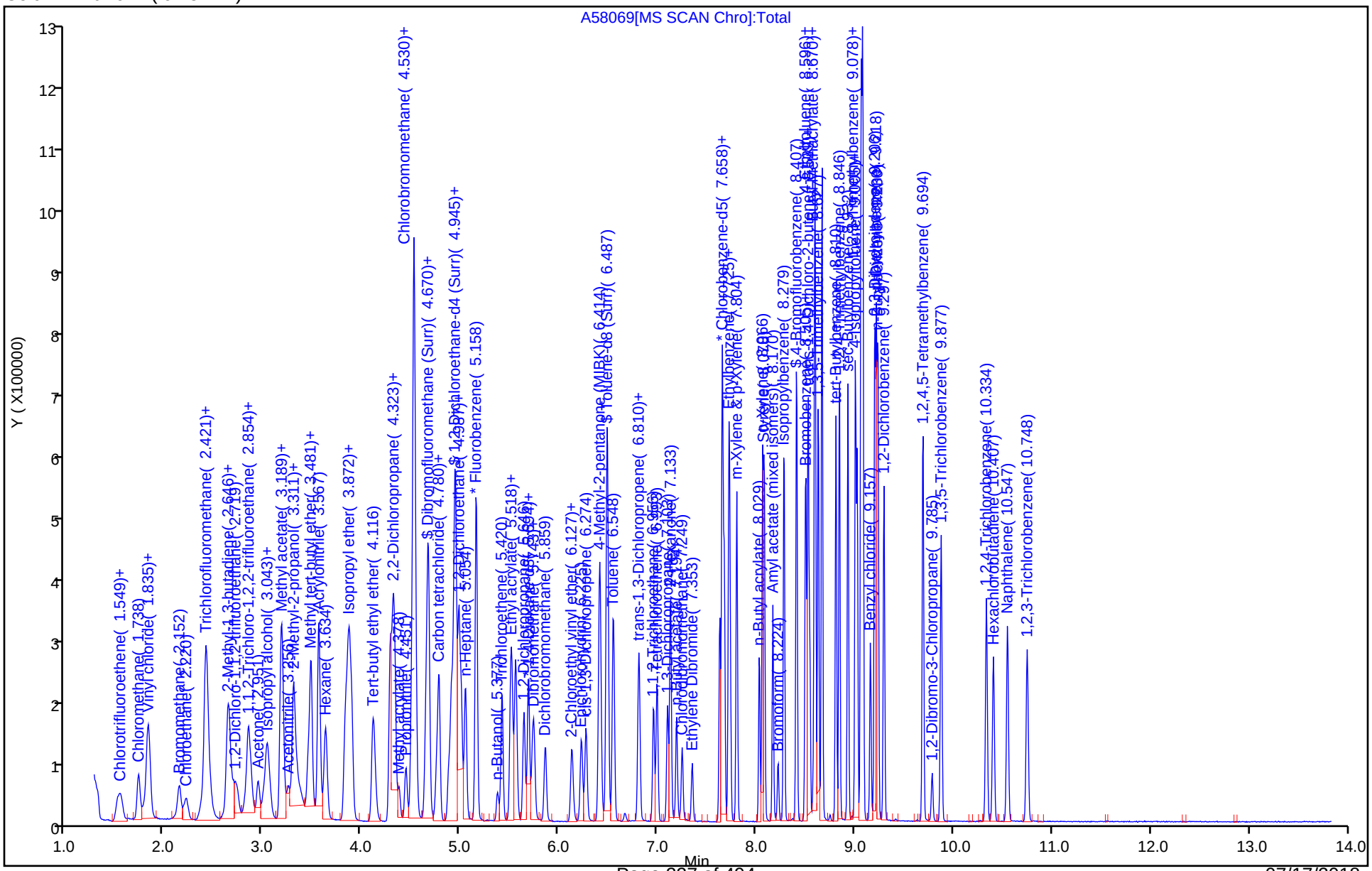
Report Date: 06-Jul-2018 11:46:33 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58069.D

Injection Date:	02-Jul-2018 07:32:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD20			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

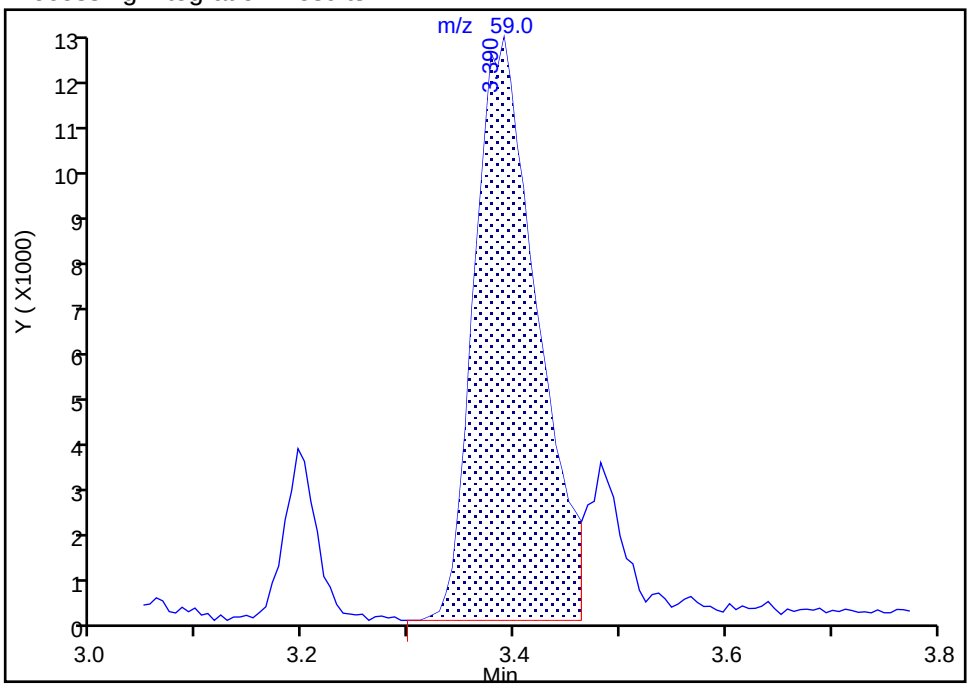
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58069.D
Injection Date: 02-Jul-2018 07:32:30 Instrument ID: CVOAMS1
Lims ID: STD20
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

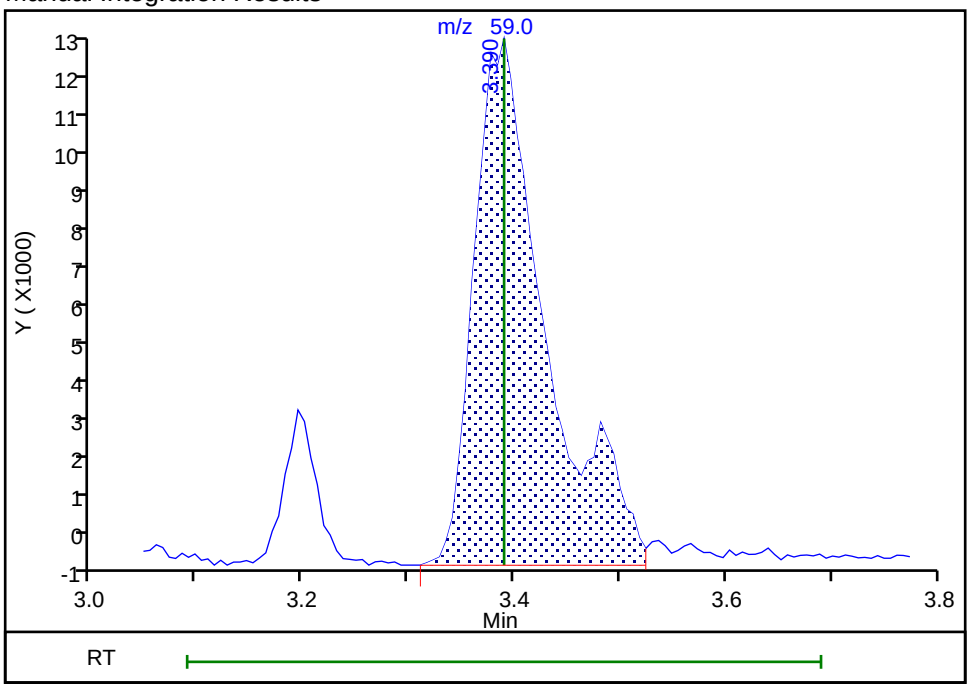
Processing Integration Results

RT: 3.39
Area: 51111
Amount: 180.9930
Amount Units: ug/l



Manual Integration Results

RT: 3.39
Area: 58211
Amount: 190.7413
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:44:06
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58070.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 02-Jul-2018 07:55:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074723-008
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:46:51 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:46:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.524	1.525	-0.001	89	67801	50.0	48.2	
3 Dichlorodifluoromethane	85	1.561	1.555	0.006	99	204430	50.0	51.8	
4 Chloromethane	50	1.738	1.738	0.000	99	252012	50.0	49.3	
5 Vinyl chloride	62	1.829	1.829	0.000	98	227971	50.0	51.6	
6 Butadiene	39	1.841	1.842	-0.001	97	256862	50.0	54.2	
7 Bromomethane	94	2.146	2.152	-0.006	99	129960	50.0	49.3	
8 Chloroethane	64	2.219	2.213	0.006	100	129713	50.0	48.4	
11 Pentane	72	2.421	2.421	0.000	98	49459	100.0	93.3	
10 Dichlorofluoromethane	67	2.421	2.421	0.000	80	308390	50.0	49.8	
9 Trichlorofluoromethane	101	2.433	2.433	0.000	97	227735	50.0	49.7	
12 Ethanol	46	2.634	2.622	0.012	82	24137	2000.0	1979.1	
13 Ethyl ether	59	2.634	2.634	0.000	92	125510	50.0	48.8	
14 2-Methyl-1,3-butadiene	53	2.652	2.652	0.000	94	147081	50.0	50.3	
15 1,2-Dichloro-1,1,2-trifluo	117	2.725	2.719	0.006	97	101244	50.0	47.3	
16 Acrolein	56	2.823	2.823	0.000	96	39074	100.0	87.8	
18 1,1-Dichloroethene	96	2.847	2.847	0.000	96	118971	50.0	47.3	
17 1,1,2-Trichloro-1,2,2-trif	101	2.853	2.854	-0.001	91	120282	50.0	49.5	
19 Acetone	58	2.957	2.951	0.006	85	61999	250.0	221.7	
20 Iodomethane	142	3.012	3.012	0.000	99	211546	50.0	45.7	
21 Carbon disulfide	76	3.042	3.043	-0.001	100	447858	50.0	48.2	
22 Isopropyl alcohol	45	3.061	3.055	0.006	96	80105	500.0	442.3	
23 3-Chloro-1-propene	76	3.176	3.177	-0.001	88	90154	50.0	49.6	
24 Methyl acetate	43	3.201	3.195	0.006	100	248588	100.0	92.8	
25 Cyclopentene	67	3.195	3.195	0.000	93	379872	50.0	50.7	
26 Acetonitrile	40	3.262	3.262	0.000	100	139942	500.0	541.2	
27 Methylene Chloride	84	3.311	3.311	0.000	98	170847	50.0	47.5	
* 28 TBA-d9 (IS)	65	3.323	3.311	0.012	0	222224	1000.0	1000.0	
29 2-Methyl-2-propanol	59	3.402	3.390	0.012	53	150748	500.0	444.0	
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	98	422769	50.0	49.1	
31 trans-1,2-Dichloroethene	96	3.487	3.488	-0.001	98	152835	50.0	48.4	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.567	3.567	0.000	93	683947	500.0	493.3	
33 Hexane	43	3.634	3.634	0.000	95	146160	50.0	49.2	
34 Isopropyl ether	45	3.841	3.841	0.000	95	552072	50.0	50.4	
35 1,1-Dichloroethane	63	3.865	3.859	0.006	99	294151	50.0	49.0	
36 Vinyl acetate	86	3.884	3.878	0.006	100	56232	100.0	90.8	
37 2-Chloro-1,3-butadiene	88	3.902	3.896	0.006	93	132897	50.0	50.5	
38 Tert-butyl ethyl ether	59	4.115	4.116	-0.001	89	455867	50.0	50.5	
* 39 2-Butanone-d5	46	4.292	4.286	0.006	0	276310	250.0	250.0	
40 2,2-Dichloropropane	97	4.310	4.311	-0.001	93	49851	50.0	49.5	
41 cis-1,2-Dichloroethene	96	4.317	4.317	0.000	93	169445	50.0	48.7	
43 2-Butanone (MEK)	72	4.341	4.335	0.006	95	79471	250.0	243.5	
42 Ethyl acetate	70	4.335	4.335	0.000	93	25922	100.0	93.6	
44 Methyl acrylate	55	4.384	4.378	0.006	98	121900	50.0	44.9	
45 Propionitrile	54	4.451	4.451	0.000	98	230843	500.0	471.5	
46 Chlorobromomethane	128	4.512	4.506	0.006	94	83155	50.0	49.1	
47 Tetrahydrofuran	72	4.512	4.506	0.006	59	37726	100.0	99.2	
48 Methacrylonitrile	67	4.536	4.530	0.006	95	615825	500.0	483.1	
49 Chloroform	83	4.548	4.548	0.000	98	270061	50.0	49.3	
50 Cyclohexane	56	4.658	4.658	0.000	96	270739	50.0	50.5	
51 1,1,1-Trichloroethane	97	4.670	4.670	0.000	98	217277	50.0	49.9	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.676	0.000	97	118391	50.0	50.9	
54 Carbon tetrachloride	117	4.768	4.762	0.006	97	175814	50.0	49.6	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	95	201272	50.0	48.7	
56 Isobutyl alcohol	43	4.908	4.890	0.018	90	240072	1250.0	1126.8	a
57 Isooctane	57	4.914	4.914	0.000	98	552698	50.0	52.1	
58 Benzene	78	4.944	4.945	-0.001	98	587513	50.0	50.6	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	149485	50.0	49.7	
60 Isopropyl acetate	43	4.987	4.981	0.006	96	499465	50.0	50.7	
61 Tert-amyl methyl ether	87	4.987	4.987	0.000	95	129244	50.0	50.2	
62 1,2-Dichloroethane	62	5.018	5.012	0.006	97	211829	50.0	47.6	
63 n-Heptane	71	5.054	5.054	0.000	95	121363	50.0	50.3	
* 64 Fluorobenzene	96	5.164	5.158	0.006	98	398398	50.0	50.0	
65 n-Butanol	56	5.377	5.377	0.000	93	69607	1250.0	1174.2	
66 Trichloroethene	95	5.426	5.420	0.006	97	138874	50.0	48.2	
67 Ethyl acrylate	56	5.518	5.512	0.006	98	99390	50.0	49.5	
68 Methylcyclohexane	83	5.524	5.524	0.000	95	242147	50.0	51.3	
69 1,2-Dichloropropane	63	5.652	5.646	0.006	94	148811	50.0	47.8	
* 71 1,4-Dioxane-d8	96	5.688	5.688	0.000	0	21249	1000.0	1000.0	
70 Methyl methacrylate	100	5.694	5.694	0.000	94	62189	100.0	96.4	
72 n-Propyl acetate	43	5.731	5.731	0.000	99	199354	50.0	46.4	
73 1,4-Dioxane	88	5.731	5.731	0.000	28	27502	1000.0	926.4	
74 Dibromomethane	93	5.749	5.749	0.000	97	89158	50.0	46.8	
75 Dichlorobromomethane	83	5.865	5.859	0.006	99	176432	50.0	47.6	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	86	74337	50.0	45.1	
77 2-Nitropropane	41	6.139	6.140	-0.001	85	67003	100.0	88.2	
78 Epichlorohydrin	57	6.225	6.225	0.000	100	254354	1000.0	994.2	
79 cis-1,3-Dichloropropene	75	6.273	6.274	-0.001	94	184337	50.0	47.2	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	98	808116	250.0	261.9	
$ 81 Toluene-d8 (Surr)	98	6.493	6.487	0.006	99	385120	50.0	51.6	
82 Toluene	91	6.554	6.554	0.000	93	537966	50.0	49.3	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	98	153343	50.0	45.2	
84 Ethyl methacrylate	69	6.816	6.816	0.000	89	159436	50.0	51.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.962	6.963	-0.001	94	93393	50.0	47.3	
86 Tetrachloroethene	166	6.999	6.999	0.000	96	129236	50.0	49.4	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	95	175418	50.0	46.4	
88 2-Hexanone	43	7.133	7.133	0.000	98	462309	250.0	249.0	
89 n-Butyl acetate	73	7.194	7.194	0.000	98	32307	50.0	49.7	
90 Chlorodibromomethane	129	7.249	7.249	0.000	98	101274	50.0	46.5	
91 Ethylene Dibromide	107	7.353	7.353	-0.001	98	101436	50.0	46.3	
* 92 Chlorobenzene-d5	117	7.657	7.658	-0.001	86	261729	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	93	328018	50.0	47.4	
94 Ethylbenzene	106	7.724	7.725	-0.001	99	187347	50.0	50.2	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	94	128380	50.0	50.7	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	97	232048	50.0	51.3	
97 n-Butyl acrylate	73	8.035	8.029	0.006	96	97266	50.0	51.9	
98 o-Xylene	106	8.066	8.066	0.000	94	244462	50.0	52.7	
99 Styrene	104	8.084	8.084	0.000	96	393328	50.0	50.7	
100 Amyl acetate (mixed isomer	43	8.169	8.170	-0.001	88	309147	50.0	49.1	
101 Bromoform	173	8.224	8.224	0.000	95	64106	50.0	47.1	
102 Isopropylbenzene	105	8.285	8.279	0.006	96	642722	50.0	52.6	
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	90	121590	50.0	51.8	
104 Bromobenzene	156	8.505	8.499	0.006	96	156091	50.0	46.2	
105 1,1,2,2-Tetrachloroethane	83	8.511	8.505	0.006	98	177361	50.0	46.9	
106 N-Propylbenzene	91	8.529	8.529	0.000	99	780382	50.0	48.8	
107 1,2,3-Trichloropropane	110	8.547	8.541	0.006	97	49331	50.0	48.0	
108 trans-1,4-Dichloro-2-buten	53	8.547	8.548	-0.001	75	26117	50.0	41.1	
109 4-Ethyltoluene	105	8.596	8.590	0.006	98	649837	50.0	48.3	
110 2-Chlorotoluene	91	8.602	8.602	0.000	97	551125	50.0	48.1	
111 1,3,5-Trimethylbenzene	105	8.633	8.627	0.006	93	561633	50.0	50.1	
113 4-Chlorotoluene	91	8.669	8.670	-0.001	99	471226	50.0	47.8	
112 Butyl Methacrylate	87	8.675	8.670	0.005	95	207028	50.0	49.0	
114 tert-Butylbenzene	119	8.816	8.810	0.006	94	461314	50.0	50.6	
115 1,2,4-Trimethylbenzene	105	8.852	8.846	0.006	98	585912	50.0	50.4	
116 sec-Butylbenzene	105	8.938	8.932	0.006	99	715305	50.0	50.4	
117 4-Isopropyltoluene	119	9.017	9.005	0.012	98	624848	50.0	51.1	
118 1,3-Dichlorobenzene	146	9.035	9.023	0.012	96	338438	50.0	48.8	
* 119 1,4-Dichlorobenzene-d4	152	9.072	9.066	0.006	94	166336	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.084	9.078	0.006	92	346648	50.0	48.1	
136 1,2,3-Trimethylbenzene	105	9.090	9.084	0.006	99	633500	50.0	49.7	
121 Benzyl chloride	91	9.169	9.157	0.012	98	311253	50.0	48.9	
122 2,3-Dihydroindene	117	9.212	9.200	0.012	94	687731	50.0	50.5	
123 p-Diethylbenzene	119	9.230	9.218	0.012	93	411447	50.0	52.5	
124 n-Butylbenzene	92	9.242	9.236	0.006	96	353830	50.0	50.3	
125 1,2-Dichlorobenzene	146	9.309	9.297	0.012	96	341340	50.0	50.1	
126 1,2,4,5-Tetramethylbenzene	119	9.700	9.694	0.006	97	610123	50.0	52.3	
127 1,2-Dibromo-3-Chloropropan	75	9.797	9.785	0.012	94	33219	50.0	47.2	
128 1,3,5-Trichlorobenzene	180	9.889	9.877	0.012	96	262048	50.0	50.5	
129 1,2,4-Trichlorobenzene	180	10.346	10.334	0.012	93	230186	50.0	50.2	
130 Hexachlorobutadiene	225	10.419	10.407	0.012	92	101599	50.0	47.1	
131 Naphthalene	128	10.559	10.547	0.012	99	565163	50.0	51.3	
132 1,2,3-Trichlorobenzene	180	10.760	10.748	0.012	95	203342	50.0	49.6	
S 133 1,2-Dichloroethene, Total	100				0		100.0	97.1	
S 134 Xylenes, Total	100				0		100.0	104.0	
S 135 Total BTEX	1				0		250.0	254.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
GAS Hi_00261	Amount Added:	5.00	Units: uL	
MIX I Hi_00095	Amount Added:	5.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	5.00	Units: uL	
Ethanol mix_00017	Amount Added:	5.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

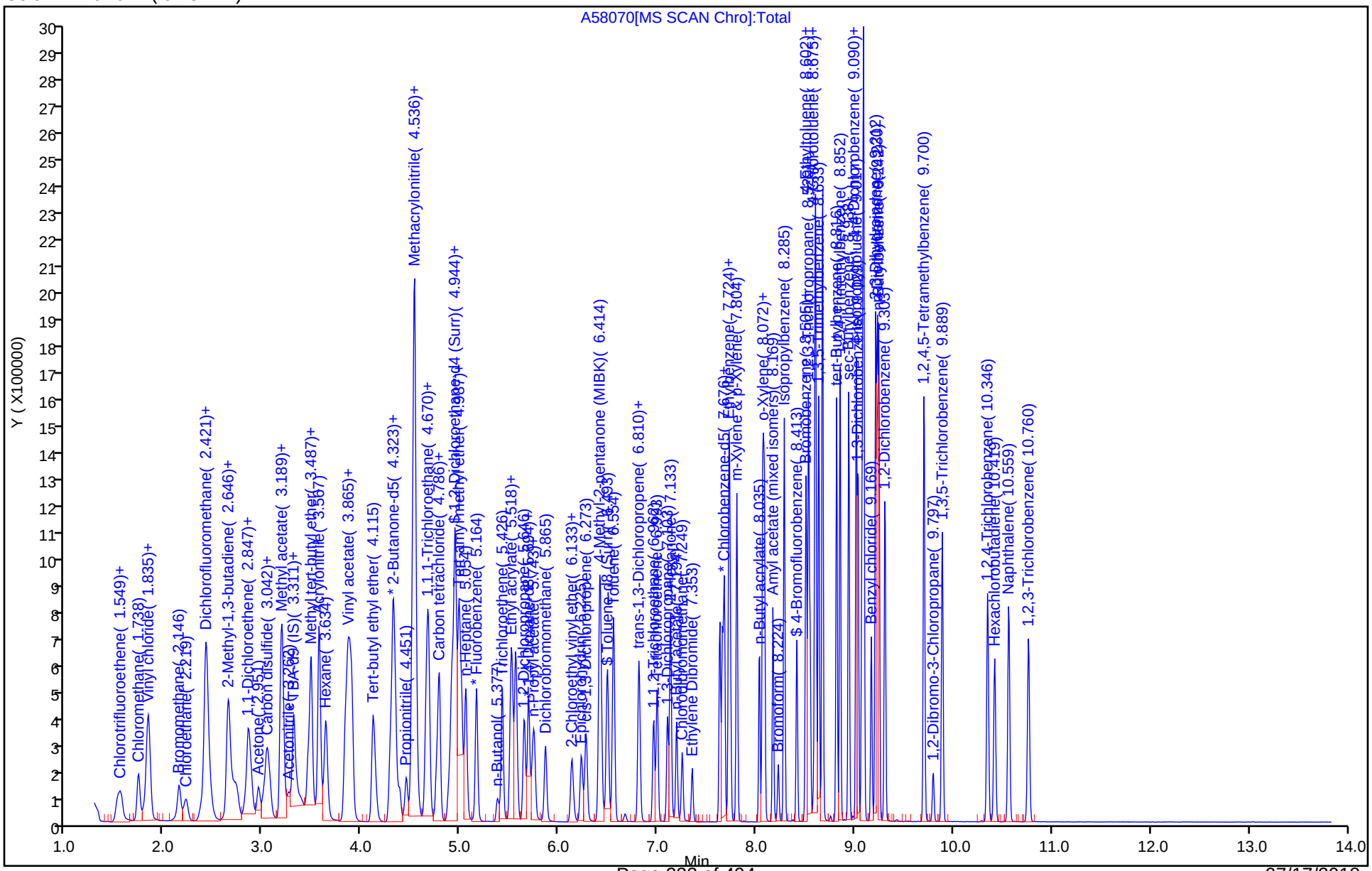
Report Date: 06-Jul-2018 11:46:57 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58070.D

Injection Date:	02-Jul-2018 07:55:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD50			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

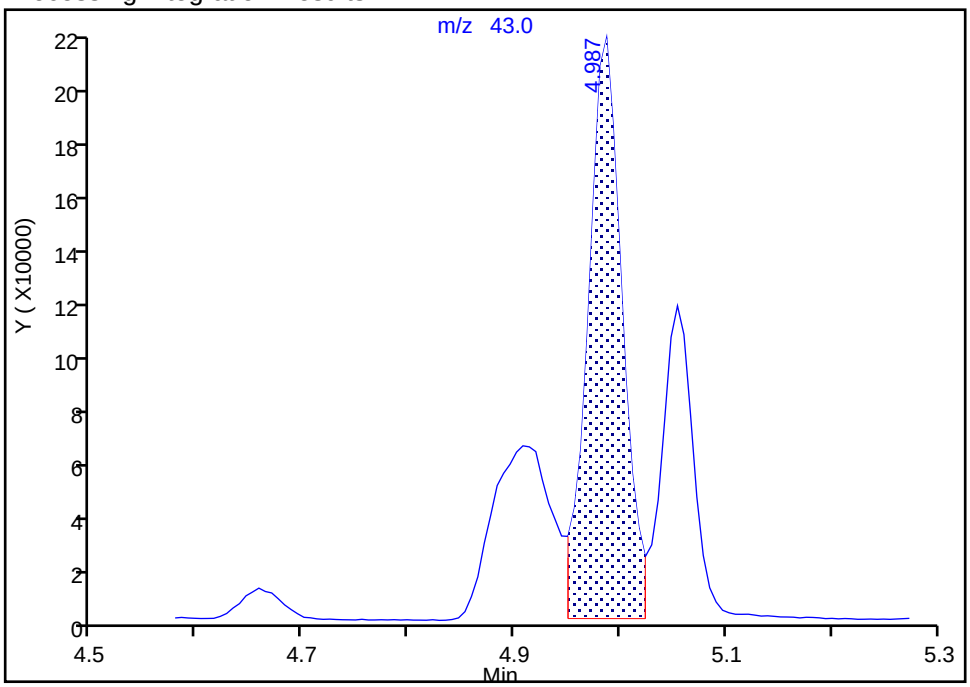
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58070.D
Injection Date: 02-Jul-2018 07:55:30 Instrument ID: CVOAMS1
Lims ID: STD50
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

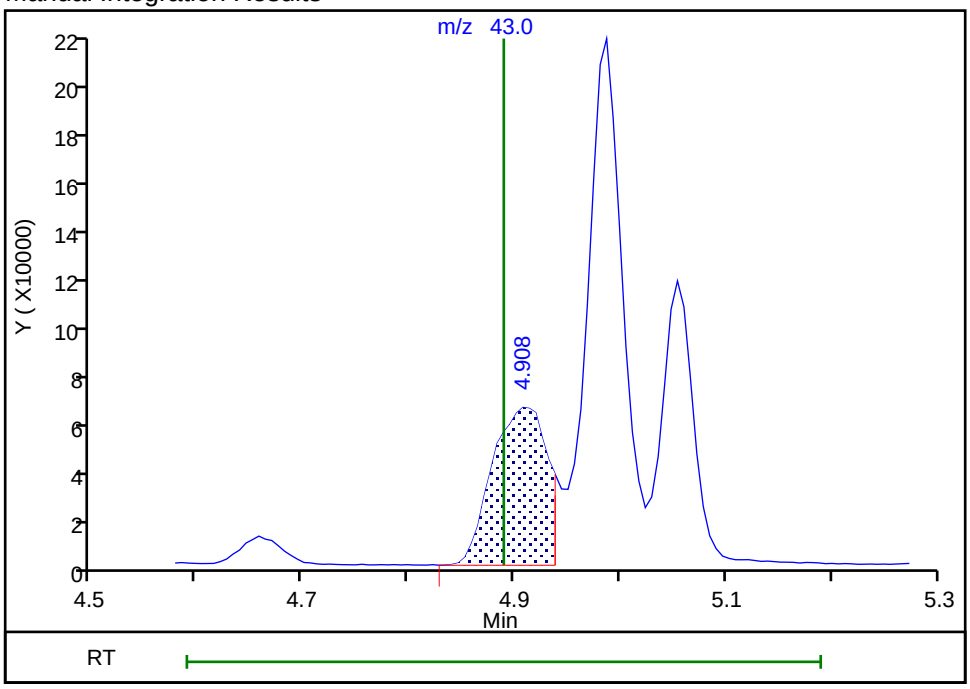
Processing Integration Results

RT: 4.99
Area: 497596
Amount: 2310.0169
Amount Units: ug/l



Manual Integration Results

RT: 4.91
Area: 240072
Amount: 1126.8015
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:45:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 02-Jul-2018 08:18:30 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074723-009
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:47:17 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:48:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.531	1.525	0.006	89	377309	200.0	234.3	
3 Dichlorodifluoromethane	85	1.567	1.555	0.012	99	944249	200.0	208.8	
4 Chloromethane	50	1.744	1.738	0.006	99	1137744	200.0	194.5	
5 Vinyl chloride	62	1.842	1.829	0.013	98	995855	200.0	196.7	
6 Butadiene	39	1.848	1.842	0.006	98	1113802	200.0	205.0	
7 Bromomethane	94	2.159	2.152	0.007	98	561895	200.0	186.2	
8 Chloroethane	64	2.226	2.213	0.013	100	548676	200.0	178.9	
10 Dichlorofluoromethane	67	2.433	2.421	0.012	99	1324077	200.0	186.5	
11 Pentane	72	2.427	2.421	0.006	97	220958	400.0	392.4	
9 Trichlorofluoromethane	101	2.439	2.433	0.006	99	982245	200.0	187.1	
12 Ethanol	46	2.640	2.622	0.018	82	91337	8000.0	7050.4	
13 Ethyl ether	59	2.640	2.634	0.006	91	564536	200.0	191.6	
14 2-Methyl-1,3-butadiene	53	2.659	2.652	0.007	95	621438	200.0	185.5	
15 1,2-Dichloro-1,1,2-trifluo	117	2.738	2.719	0.019	92	457756	200.0	186.6	
16 Acrolein	56	2.823	2.823	0.000	95	85876	200.0	181.6	
18 1,1-Dichloroethene	96	2.866	2.847	0.019	92	541267	200.0	187.9	
17 1,1,2-Trichloro-1,2,2-trif	101	2.860	2.854	0.006	93	538326	200.0	193.5	
19 Acetone	58	2.957	2.951	0.006	85	273368	1000.0	810.9	
20 Iodomethane	142	3.024	3.012	0.012	99	949210	200.0	179.1	
21 Carbon disulfide	76	3.055	3.043	0.012	100	2087082	200.0	200.6	
22 Isopropyl alcohol	45	3.067	3.055	0.012	98	366042	2000.0	1902.5	
23 3-Chloro-1-propene	76	3.183	3.177	0.006	88	394110	200.0	189.2	
25 Cyclopentene	67	3.201	3.195	0.006	93	1612275	200.0	187.9	
24 Methyl acetate	43	3.207	3.195	0.012	99	1184190	400.0	385.8	
26 Acetonitrile	40	3.268	3.262	0.006	97	547157	2000.0	1991.9	
* 28 TBA-d9 (IS)	65	3.323	3.311	0.012	0	236058	1000.0	1000.0	
27 Methylene Chloride	84	3.317	3.311	0.006	98	750672	200.0	182.0	
29 2-Methyl-2-propanol	59	3.396	3.390	0.006	99	663274	2000.0	1839.2	M
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	98	1944910	200.0	197.2	
31 trans-1,2-Dichloroethene	96	3.494	3.488	0.006	98	687272	200.0	190.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.573	3.567	0.006	94	2889171	2000.0	1819.1	
33 Hexane	43	3.640	3.634	0.006	95	693759	200.0	203.9	
34 Isopropyl ether	45	3.841	3.841	0.000	97	2511440	200.0	200.0	
35 1,1-Dichloroethane	63	3.866	3.859	0.007	99	1324873	200.0	192.5	
36 Vinyl acetate	86	3.884	3.878	0.006	100	274326	400.0	414.4	
37 2-Chloro-1,3-butadiene	88	3.908	3.896	0.012	92	597181	200.0	198.0	
38 Tert-butyl ethyl ether	59	4.122	4.116	0.006	88	2110937	200.0	204.1	
* 39 2-Butanone-d5	46	4.298	4.286	0.012	0	333135	250.0	250.0	
40 2,2-Dichloropropane	97	4.317	4.311	0.006	96	225154	200.0	195.1	
41 cis-1,2-Dichloroethene	96	4.323	4.317	0.006	93	774539	200.0	194.4	
42 Ethyl acetate	70	4.347	4.335	0.012	96	133637	400.0	400.2	
43 2-Butanone (MEK)	72	4.341	4.335	0.006	95	382981	1000.0	973.4	
44 Methyl acrylate	55	4.390	4.378	0.012	99	640123	200.0	205.9	
45 Propionitrile	54	4.457	4.451	0.006	98	1079279	2000.0	2075.3	
47 Tetrahydrofuran	72	4.512	4.506	0.006	62	179723	400.0	391.8	
46 Chlorobromomethane	128	4.512	4.506	0.006	92	371736	200.0	191.6	
48 Methacrylonitrile	67	4.536	4.530	0.006	96	3054796	2000.0	2091.9	
49 Chloroform	83	4.555	4.548	0.007	98	1226064	200.0	195.4	
50 Cyclohexane	56	4.664	4.658	0.006	95	1288972	200.0	209.8	
51 1,1,1-Trichloroethane	97	4.676	4.670	0.006	98	998544	200.0	200.1	
$ 52 Dibromofluoromethane (Surr	113	4.683	4.676	0.007	96	134448	50.0	50.5	
54 Carbon tetrachloride	117	4.768	4.762	0.006	97	826301	200.0	203.7	
55 1,1-Dichloropropene	75	4.792	4.786	0.006	96	982066	200.0	207.6	
56 Isobutyl alcohol	43	4.920	4.890	0.030	90	1252304	5000.0	5533.3	a
57 Isooctane	57	4.926	4.914	0.012	96	2564255	200.0	210.9	
58 Benzene	78	4.951	4.945	0.006	97	2813722	200.0	203.8	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.963	4.957	0.006	0	180961	50.0	52.5	
60 Isopropyl acetate	43	4.987	4.981	0.006	96	2514586	200.0	222.7	
61 Tert-amyl methyl ether	87	4.993	4.987	0.006	94	628936	200.0	213.1	
62 1,2-Dichloroethane	62	5.018	5.012	0.006	96	987325	200.0	193.7	
63 n-Heptane	71	5.054	5.054	0.000	95	617024	200.0	223.3	
* 64 Fluorobenzene	96	5.164	5.158	0.006	98	456385	50.0	50.0	
65 n-Butanol	56	5.384	5.377	0.007	91	400669	5000.0	6362.7	
66 Trichloroethene	95	5.426	5.420	0.006	98	687660	200.0	208.4	
67 Ethyl acrylate	56	5.518	5.512	0.006	98	509167	200.0	221.4	
68 Methylcyclohexane	83	5.524	5.524	0.000	92	1168776	200.0	216.1	
69 1,2-Dichloropropane	63	5.652	5.646	0.006	94	737345	200.0	206.7	
* 71 1,4-Dioxane-d8	96	5.688	5.688	0.000	0	18492	1000.0	1000.0	M
70 Methyl methacrylate	100	5.695	5.694	0.001	92	333792	400.0	451.8	
73 1,4-Dioxane	88	5.737	5.731	0.006	28	132102	4000.0	5113.5	
72 n-Propyl acetate	43	5.737	5.731	0.006	99	1081552	200.0	220.0	
74 Dibromomethane	93	5.749	5.749	0.000	97	440475	200.0	201.9	
75 Dichlorobromomethane	83	5.865	5.859	0.006	99	911805	200.0	214.7	
76 2-Chloroethyl vinyl ether	63	6.133	6.127	0.006	85	420805	200.0	223.1	
77 2-Nitropropane	41	6.140	6.140	0.000	98	358541	400.0	411.8	
78 Epichlorohydrin	57	6.231	6.225	0.006	100	1332505	4000.0	4320.0	
79 cis-1,3-Dichloropropene	75	6.280	6.274	0.006	94	1050981	200.0	226.4	
80 4-Methyl-2-pentanone (MIBK	43	6.420	6.414	0.006	98	4112350	1000.0	1105.2	
$ 81 Toluene-d8 (Surr)	98	6.493	6.487	0.006	98	477533	50.0	53.8	
82 Toluene	91	6.554	6.554	0.000	93	2727624	200.0	210.3	
83 trans-1,3-Dichloropropene	75	6.810	6.804	0.006	99	875862	200.0	217.0	
84 Ethyl methacrylate	69	6.816	6.816	0.000	92	854468	200.0	239.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.963	6.963	0.000	95	473864	200.0	201.9	
86 Tetrachloroethene	166	6.999	6.999	0.000	96	642633	200.0	206.4	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	96	933200	200.0	207.5	
88 2-Hexanone	43	7.133	7.133	0.000	99	2387999	1000.0	1066.9	
89 n-Butyl acetate	73	7.194	7.194	0.000	98	169441	200.0	219.1	
90 Chlorodibromomethane	129	7.255	7.249	0.006	98	558099	200.0	215.3	
91 Ethylene Dibromide	107	7.353	7.353	0.000	98	522747	200.0	200.7	
* 92 Chlorobenzene-d5	117	7.658	7.658	0.000	87	311307	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	93	1670679	200.0	203.0	
94 Ethylbenzene	106	7.725	7.725	0.000	99	941557	200.0	212.1	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	95	645169	200.0	214.2	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	98	1167682	200.0	217.0	
97 n-Butyl acrylate	73	8.036	8.029	0.007	96	508490	200.0	228.2	
98 o-Xylene	106	8.072	8.066	0.006	93	1201260	200.0	217.7	
99 Styrene	104	8.084	8.084	0.000	94	2018418	200.0	218.9	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	88	1592599	200.0	223.3	
101 Bromoform	173	8.225	8.224	0.001	95	349617	200.0	215.8	
102 Isopropylbenzene	105	8.285	8.279	0.006	96	3213581	200.0	221.2	
$ 103 4-Bromofluorobenzene	174	8.420	8.413	0.007	94	140698	50.0	50.4	
104 Bromobenzene	156	8.511	8.499	0.012	96	766466	200.0	200.4	
105 1,1,2,2-Tetrachloroethane	83	8.517	8.505	0.012	99	880535	200.0	205.7	
106 N-Propylbenzene	91	8.535	8.529	0.006	98	3936765	200.0	217.5	
107 1,2,3-Trichloropropane	110	8.554	8.541	0.013	97	239471	200.0	205.9	
108 trans-1,4-Dichloro-2-buten	53	8.554	8.548	0.006	73	170233	200.0	202.9	
109 4-Ethyltoluene	105	8.603	8.590	0.012	98	3309156	200.0	217.3	
110 2-Chlorotoluene	91	8.609	8.602	0.007	97	2758024	200.0	212.5	
111 1,3,5-Trimethylbenzene	105	8.639	8.627	0.012	92	2816543	200.0	221.7	
112 Butyl Methacrylate	87	8.682	8.670	0.012	91	1088630	200.0	225.9	
113 4-Chlorotoluene	91	8.676	8.670	0.006	99	2348513	200.0	210.6	
114 tert-Butylbenzene	119	8.822	8.810	0.012	94	2391229	200.0	231.5	
115 1,2,4-Trimethylbenzene	105	8.859	8.846	0.013	98	2926888	200.0	222.2	
116 sec-Butylbenzene	105	8.950	8.932	0.018	99	3647688	200.0	226.8	
117 4-Isopropyltoluene	119	9.029	9.005	0.024	98	3146935	200.0	227.1	
118 1,3-Dichlorobenzene	146	9.048	9.023	0.025	98	1615777	200.0	205.7	
* 119 1,4-Dichlorobenzene-d4	152	9.084	9.066	0.018	94	188342	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.096	9.078	0.018	93	1665712	200.0	203.9	
136 1,2,3-Trimethylbenzene	105	9.102	9.084	0.018	99	3155217	200.0	218.5	
121 Benzyl chloride	91	9.182	9.157	0.025	98	1674625	200.0	232.3	
122 2,3-Dihydroindene	117	9.224	9.200	0.024	94	3295007	200.0	213.8	
123 p-Diethylbenzene	119	9.243	9.218	0.025	92	1885253	200.0	212.3	a
124 n-Butylbenzene	92	9.255	9.236	0.019	97	1741985	200.0	218.7	
125 1,2-Dichlorobenzene	146	9.316	9.297	0.019	95	1597156	200.0	207.1	
126 1,2,4,5-Tetramethylbenzene	119	9.718	9.694	0.024	97	3051073	200.0	231.1	
127 1,2-Dibromo-3-Chloropropan	75	9.810	9.785	0.025	96	170125	200.0	213.4	
128 1,3,5-Trichlorobenzene	180	9.901	9.877	0.024	96	1162844	200.0	197.9	
129 1,2,4-Trichlorobenzene	180	10.364	10.334	0.030	93	990443	200.0	190.6	
130 Hexachlorobutadiene	225	10.438	10.407	0.031	91	416269	200.0	170.3	
131 Naphthalene	128	10.578	10.547	0.031	98	2573567	200.0	206.3	
132 1,2,3-Trichlorobenzene	180	10.779	10.748	0.031	94	865910	200.0	186.6	
S 133 1,2-Dichloroethene, Total	100				0		400.0	384.4	
S 134 Xylenes, Total	100				0		400.0	434.7	
S 135 Total BTEX	1				0		1000.0	1060.9	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	20.00	Units: uL	
GAS Hi_00261	Amount Added:	20.00	Units: uL	
MIX I Hi_00095	Amount Added:	20.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	20.00	Units: uL	
Ethanol mix_00017	Amount Added:	20.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

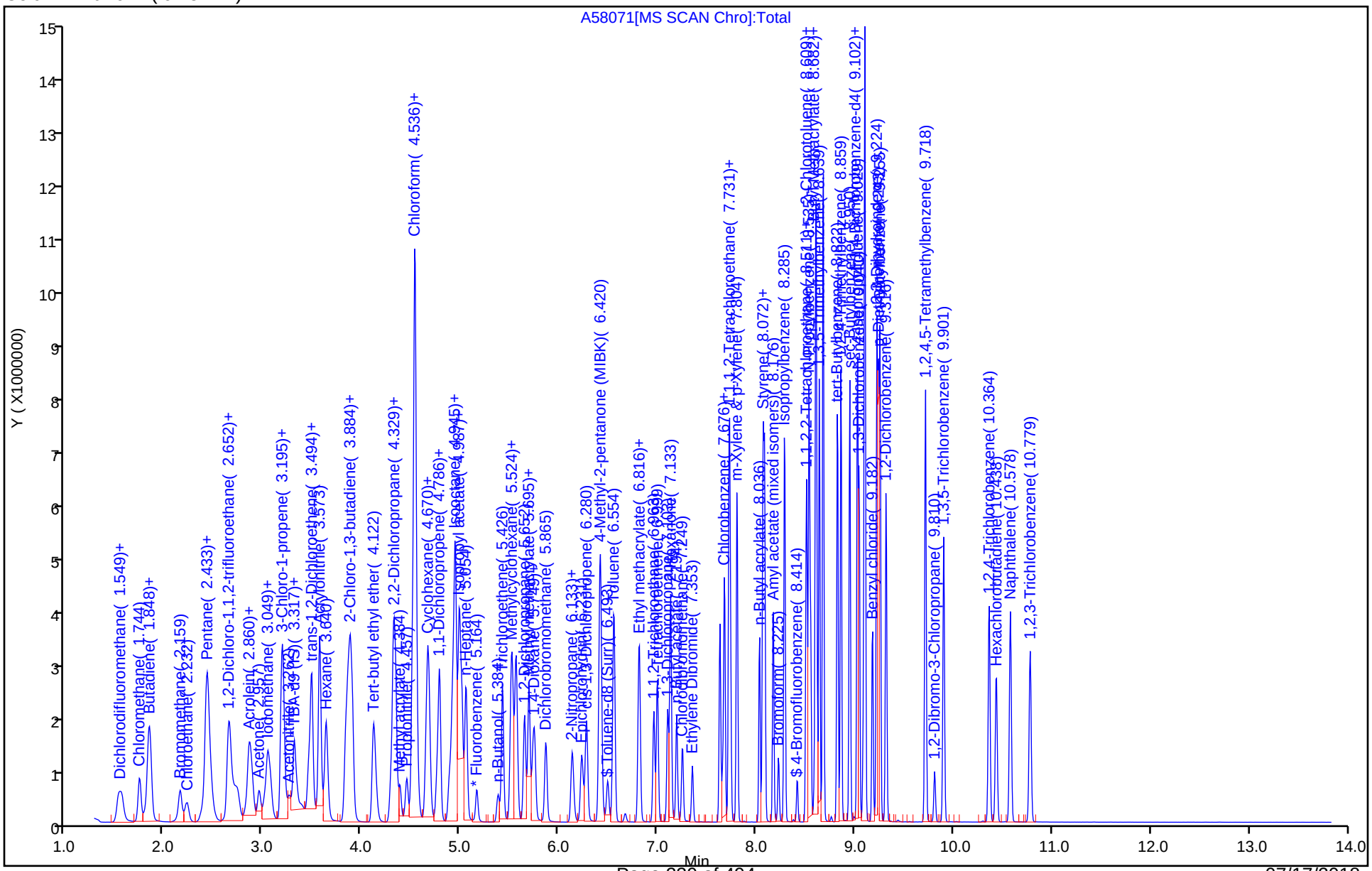
Report Date: 06-Jul-2018 11:47:24 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D

Injection Date:	02-Jul-2018 08:18:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD200			Worklist Smp#:	9
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	8
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

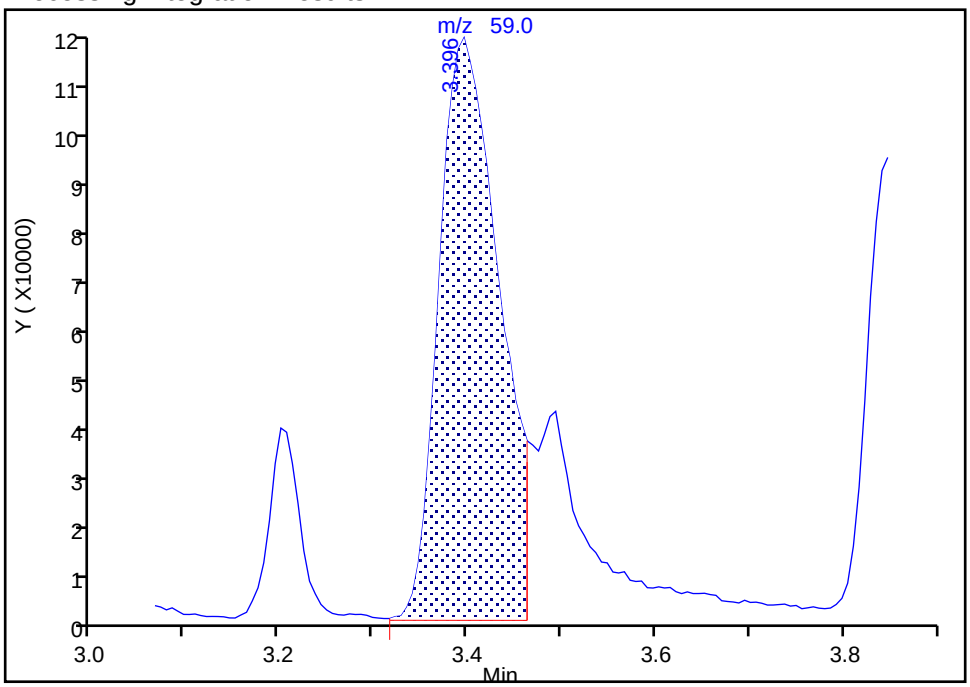
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D
Injection Date: 02-Jul-2018 08:18:30 Instrument ID: CVOAMS1
Lims ID: STD200
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

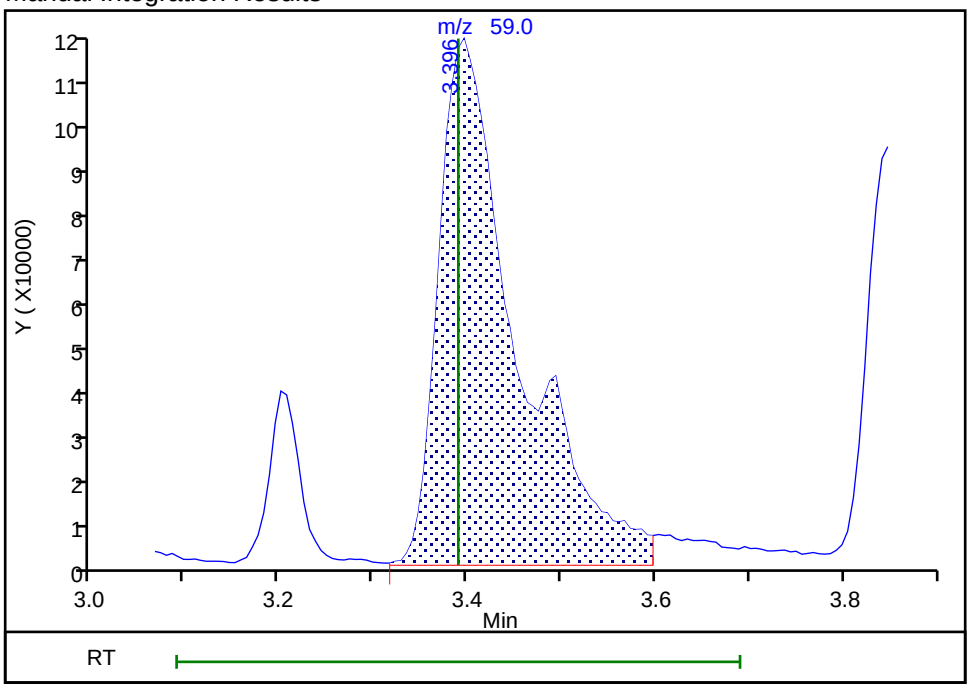
Processing Integration Results

RT: 3.40
Area: 509046
Amount: 1929.3910
Amount Units: ug/l



Manual Integration Results

RT: 3.40
Area: 663274
Amount: 1839.2459
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:47:56
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

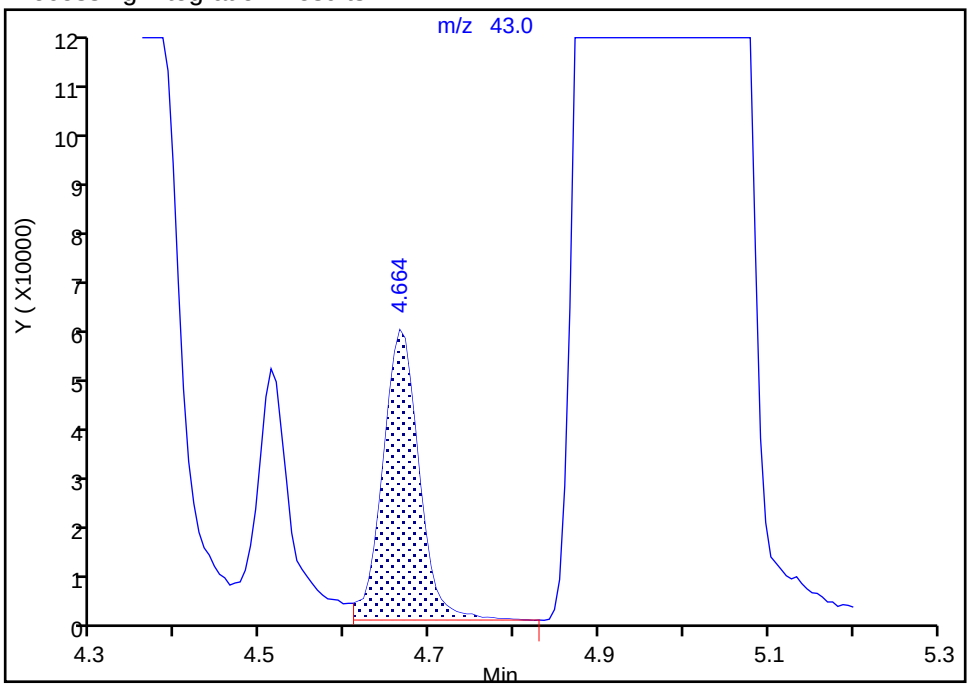
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D
Injection Date: 02-Jul-2018 08:18:30 Instrument ID: CVOAMS1
Lims ID: STD200
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

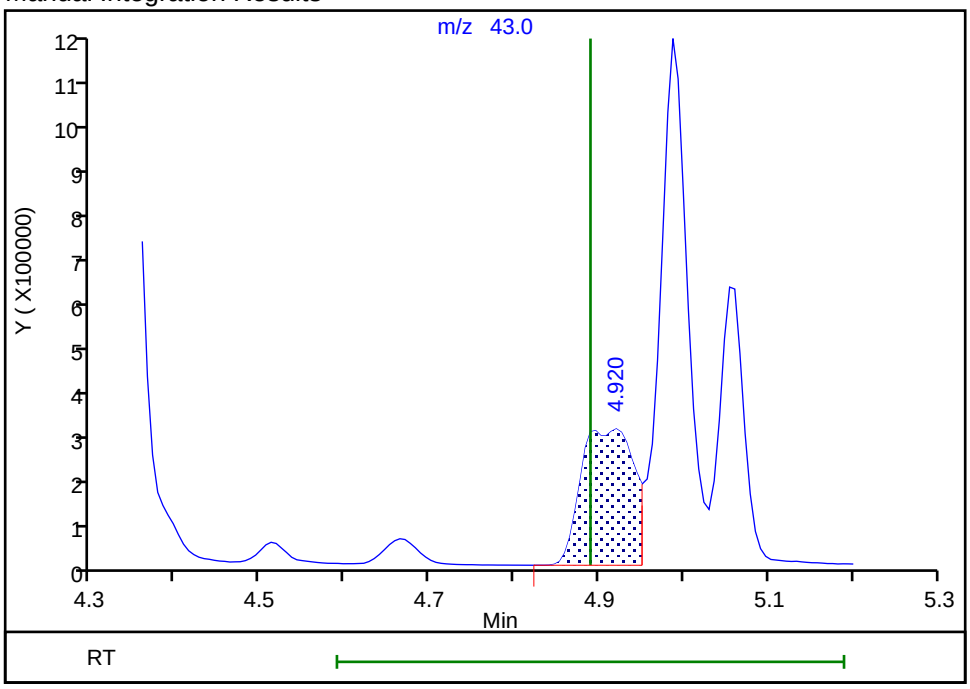
Processing Integration Results

RT: 4.66
Area: 164580
Amount: 914.5341
Amount Units: ug/l



Manual Integration Results

RT: 4.92
Area: 1252304
Amount: 5533.3471
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:48:08
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

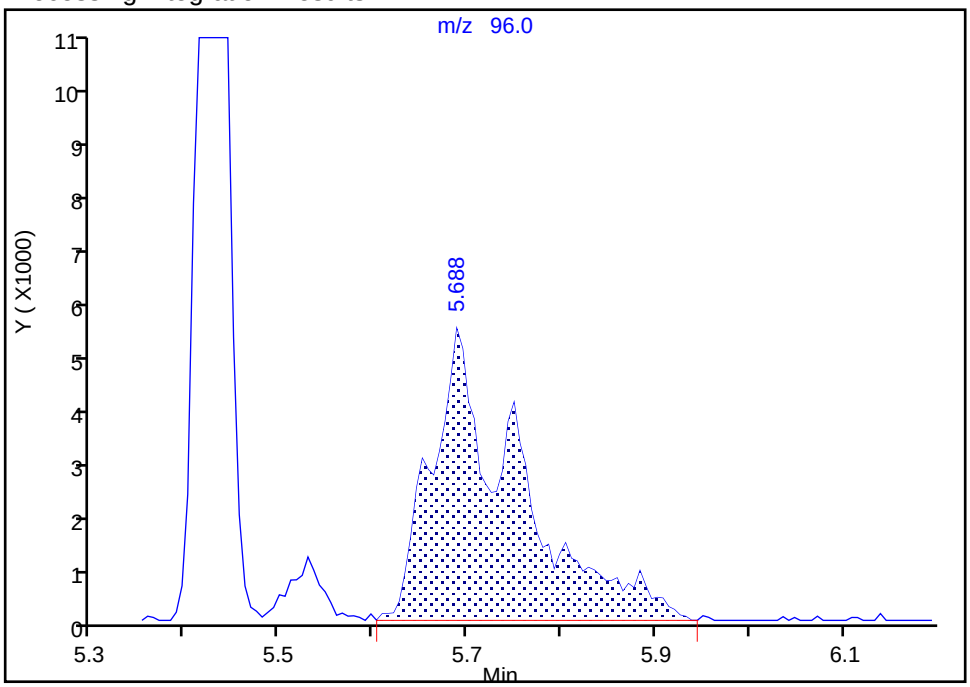
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D
Injection Date: 02-Jul-2018 08:18:30 Instrument ID: CVOAMS1
Lims ID: STD200
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

* 71 1,4-Dioxane-d8, CAS: 17647-74-4

Signal: 1

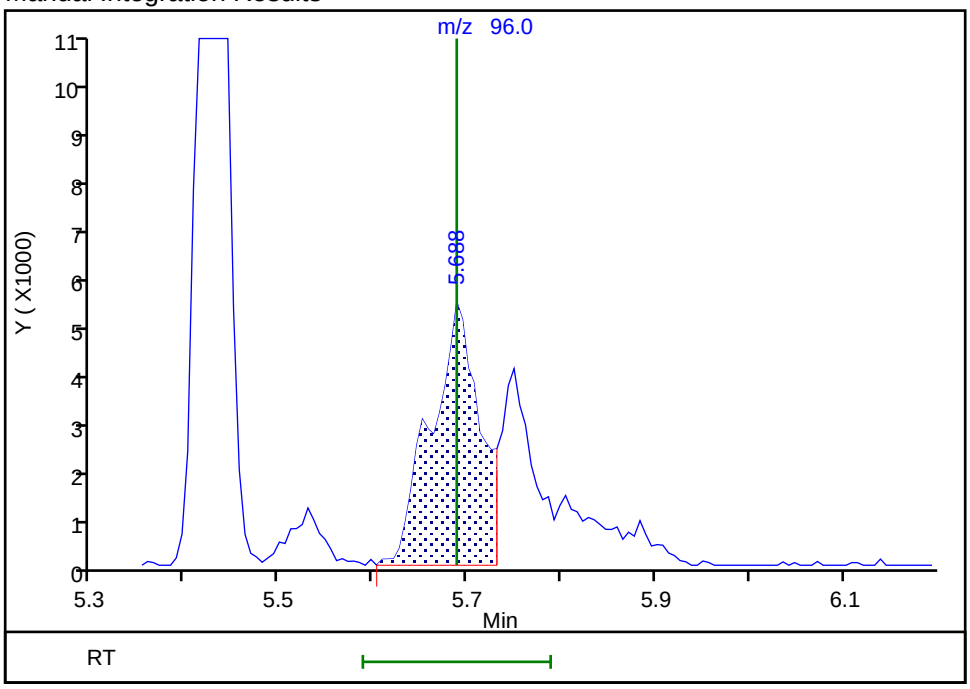
Processing Integration Results

RT: 5.69
Area: 32290
Amount: 1000.0000
Amount Units: ug/l



Manual Integration Results

RT: 5.69
Area: 18492
Amount: 1000.0000
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:51:34
Audit Action: Split an Integrated Peak Audit Reason: Peak Tail

Manual Integration/User Assign Peak Report

TestAmerica Edison

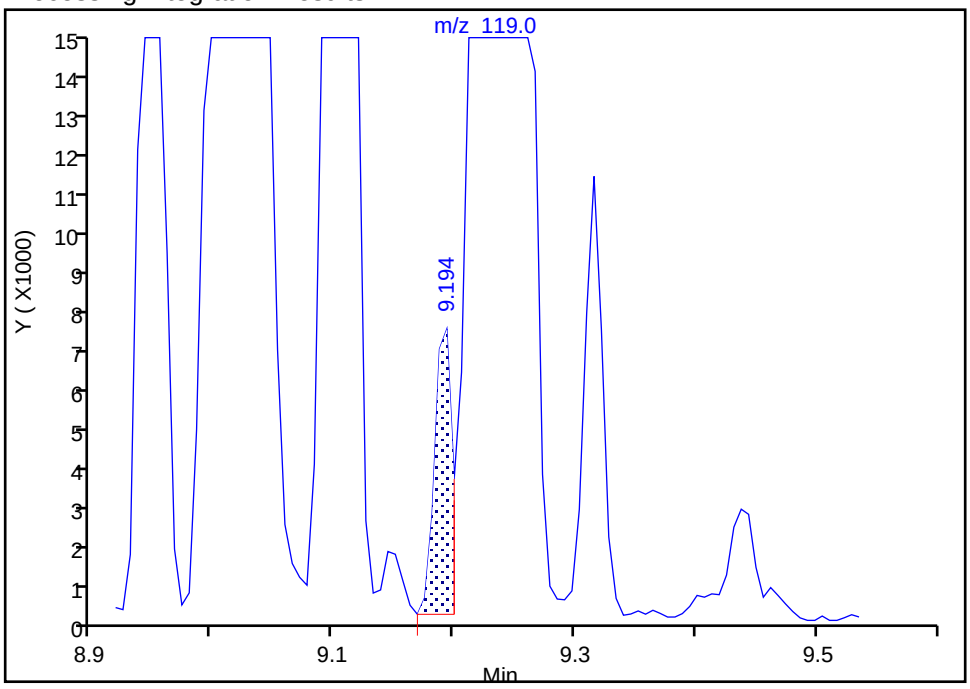
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58071.D
Injection Date: 02-Jul-2018 08:18:30 Instrument ID: CVOAMS1
Lims ID: STD200
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 8 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

123 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

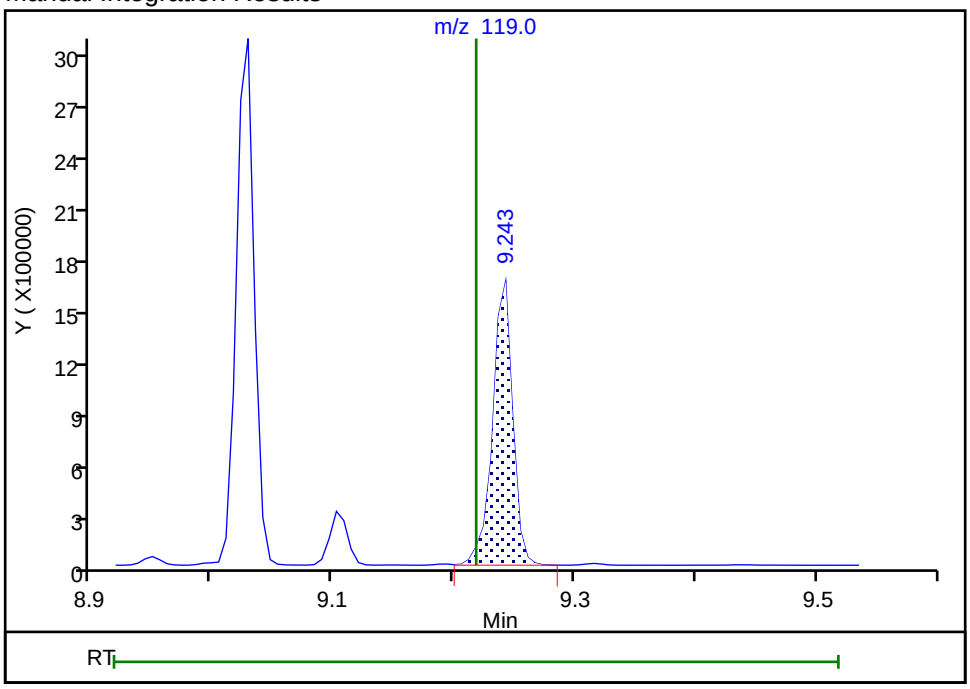
Processing Integration Results

RT: 9.19
Area: 7064
Amount: 0.911603
Amount Units: ug/l



Manual Integration Results

RT: 9.24
Area: 1885253
Amount: 212.3346
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:48:31
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 02-Jul-2018 08:42:30 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074723-010
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:47:43 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: delpolitov Date: 02-Jul-2018 10:51:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.537	1.525	0.012	90	934407	500.0	519.1	
3 Dichlorodifluoromethane	85	1.567	1.555	0.012	100	2349397	500.0	464.7	
4 Chloromethane	50	1.750	1.738	0.012	100	2855732	500.0	436.6	
5 Vinyl chloride	62	1.842	1.829	0.013	98	2516596	500.0	444.6	
6 Butadiene	39	1.854	1.842	0.012	97	2838958	500.0	467.4	
7 Bromomethane	94	2.159	2.152	0.007	99	1340580	500.0	397.4	
8 Chloroethane	64	2.226	2.213	0.013	100	1335874	500.0	389.6	
11 Pentane	72	2.451	2.421	0.030	97	581648	1000.0	947.2	
10 Dichlorofluoromethane	67	2.439	2.421	0.018	99	3287145	500.0	414.2	
9 Trichlorofluoromethane	101	2.445	2.433	0.012	97	2501728	500.0	426.1	
12 Ethanol	46	2.640	2.622	0.018	76	219422	20000	15532	
13 Ethyl ether	59	2.640	2.634	0.006	92	1448824	500.0	439.7	
14 2-Methyl-1,3-butadiene	53	2.665	2.652	0.013	97	1658663	500.0	443.0	
15 1,2-Dichloro-1,1,2-trifluo	117	2.738	2.719	0.019	98	1159857	500.0	422.9	
16 Acrolein	56	2.829	2.823	0.006	92	194944	400.0	378.0	
18 1,1-Dichloroethene	96	2.884	2.847	0.037	94	1413992	500.0	439.0	
17 1,1,2-Trichloro-1,2,2-trif	101	2.860	2.854	0.006	93	1389803	500.0	446.7	
19 Acetone	58	2.957	2.951	0.006	85	814135	2500.0	2098.4	
20 Iodomethane	142	3.043	3.012	0.030	99	2474765	500.0	417.8	
21 Carbon disulfide	76	3.073	3.043	0.030	100	5639989	500.0	499.9	
22 Isopropyl alcohol	45	3.067	3.055	0.012	95	911780	5000.0	4345.7	
23 3-Chloro-1-propene	76	3.189	3.177	0.012	91	1144766	500.0	491.5	
24 Methyl acetate	43	3.201	3.195	0.006	97	3127023	1000.0	911.1	
25 Cyclopentene	67	3.201	3.195	0.006	93	4382915	500.0	456.9	
26 Acetonitrile	40	3.268	3.262	0.006	94	1455834	5000.0	4860.0	a
27 Methylene Chloride	84	3.323	3.311	0.012	98	1952306	500.0	423.5	
* 28 TBA-d9 (IS)	65	3.329	3.311	0.018	0	257424	1000.0	1000.0	
29 2-Methyl-2-propanol	59	3.396	3.390	0.006	95	1842170	5000.0	4684.3	M
30 Methyl tert-butyl ether	73	3.475	3.469	0.006	97	5205438	500.0	472.0	
31 trans-1,2-Dichloroethene	96	3.494	3.488	0.006	98	1827680	500.0	451.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.573	3.567	0.006	94	8194829	5000.0	4615.1	
33 Hexane	43	3.640	3.634	0.006	95	1795314	500.0	471.9	
34 Isopropyl ether	45	3.847	3.841	0.006	97	6657413	500.0	474.2	
35 1,1-Dichloroethane	63	3.866	3.859	0.007	99	3539503	500.0	460.1	
36 Vinyl acetate	86	3.884	3.878	0.006	100	729640	1000.0	1009.7	
37 2-Chloro-1,3-butadiene	88	3.908	3.896	0.012	92	1630967	500.0	483.8	
38 Tert-butyl ethyl ether	59	4.122	4.116	0.006	88	5642178	500.0	487.9	
* 39 2-Butanone-d5	46	4.298	4.286	0.012	0	383373	250.0	250.0	
40 2,2-Dichloropropane	97	4.323	4.311	0.012	95	609802	500.0	472.6	
41 cis-1,2-Dichloroethene	96	4.323	4.317	0.006	93	2088448	500.0	468.9	
43 2-Butanone (MEK)	72	4.341	4.335	0.006	95	1085118	2500.0	2396.6	
42 Ethyl acetate	70	4.347	4.335	0.012	96	377830	1000.0	983.2	
44 Methyl acrylate	55	4.390	4.378	0.012	99	1772639	500.0	510.0	
45 Propionitrile	54	4.457	4.451	0.006	98	2885137	5000.0	5087.2	
46 Chlorobromomethane	128	4.512	4.506	0.006	95	992062	500.0	457.3	
47 Tetrahydrofuran	72	4.512	4.506	0.006	61	510421	1000.0	966.9	
48 Methacrylonitrile	67	4.542	4.530	0.012	95	8323087	5000.0	5098.0	
49 Chloroform	83	4.554	4.548	0.006	98	3262655	500.0	465.1	
50 Cyclohexane	56	4.670	4.658	0.012	95	3424928	500.0	498.7	
51 1,1,1-Trichloroethane	97	4.682	4.670	0.012	99	2668222	500.0	478.3	
$ 52 Dibromofluoromethane (Surr	113	4.682	4.676	0.006	96	142701	50.0	47.9	
54 Carbon tetrachloride	117	4.774	4.762	0.012	97	2209234	500.0	487.0	
55 1,1-Dichloropropene	75	4.792	4.786	0.006	97	2655036	500.0	502.1	
56 Isobutyl alcohol	43	4.896	4.890	0.006	93	3621903	12500	14675	
57 Isooctane	57	4.926	4.914	0.012	97	7167869	500.0	527.3	
58 Benzene	78	4.951	4.945	0.006	97	7704647	500.0	462.2	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.963	4.957	0.006	0	209595	50.0	54.4	
60 Isopropyl acetate	43	4.987	4.981	0.006	97	6546804	500.0	518.7	
61 Tert-amyl methyl ether	87	4.993	4.987	0.006	92	1666223	500.0	504.9	
62 1,2-Dichloroethane	62	5.018	5.012	0.006	95	2602941	500.0	456.7	
63 n-Heptane	71	5.054	5.054	0.000	95	1580223	500.0	511.5	
* 64 Fluorobenzene	96	5.170	5.158	0.012	98	510241	50.0	50.0	
65 n-Butanol	56	5.384	5.377	0.007	91	1213590	12500	17672	
66 Trichloroethene	95	5.426	5.420	0.006	98	1926365	500.0	522.2	
67 Ethyl acrylate	56	5.518	5.512	0.006	98	1408420	500.0	547.8	
68 Methylcyclohexane	83	5.530	5.524	0.006	90	3198205	500.0	528.9	
69 1,2-Dichloropropane	63	5.652	5.646	0.006	93	2043634	500.0	512.4	
* 71 1,4-Dioxane-d8	96	5.652	5.688	-0.036	0	26249	1000.0	1000.0	
70 Methyl methacrylate	100	5.701	5.694	0.007	93	964360	1000.0	1167.4	
72 n-Propyl acetate	43	5.737	5.731	0.006	99	3053635	500.0	555.5	
73 1,4-Dioxane	88	5.737	5.731	0.006	29	372559	10000	10160	
74 Dibromomethane	93	5.755	5.749	0.006	97	1229695	500.0	504.1	
75 Dichlorobromomethane	83	5.865	5.859	0.006	99	2584081	500.0	544.3	
76 2-Chloroethyl vinyl ether	63	6.133	6.127	0.006	85	1276907	500.0	605.5	
77 2-Nitropropane	41	6.146	6.140	0.006	96	1009543	1000.0	1037.2	
78 Epichlorohydrin	57	6.237	6.225	0.012	100	3930665	10000	11073	
79 cis-1,3-Dichloropropene	75	6.280	6.274	0.006	93	3147302	500.0	561.6	
80 4-Methyl-2-pentanone (MIBK	43	6.420	6.414	0.006	98	11507851	2500.0	2687.6	
$ 81 Toluene-d8 (Surr)	98	6.499	6.487	0.012	99	544836	50.0	50.8	
82 Toluene	91	6.560	6.554	0.006	93	7907846	500.0	504.9	
83 trans-1,3-Dichloropropene	75	6.810	6.804	0.006	98	2734689	500.0	561.1	
84 Ethyl methacrylate	69	6.822	6.816	0.006	92	2543755	500.0	638.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.962	6.963	-0.001	95	1420068	500.0	501.1	
86 Tetrachloroethene	166	6.999	6.999	0.000	97	1845335	500.0	490.8	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	96	2823024	500.0	520.0	
88 2-Hexanone	43	7.133	7.133	0.000	99	6991473	2500.0	2714.3	
89 n-Butyl acetate	73	7.194	7.194	0.000	98	487339	500.0	522.0	
90 Chlorodibromomethane	129	7.255	7.249	0.006	98	1680774	500.0	536.9	
91 Ethylene Dibromide	107	7.353	7.353	0.000	98	1553217	500.0	493.9	
* 92 Chlorobenzene-d5	117	7.657	7.658	-0.001	85	375878	50.0	50.0	
93 Chlorobenzene	112	7.682	7.676	0.006	93	5001130	500.0	503.3	
94 Ethylbenzene	106	7.725	7.725	-0.001	99	2721079	500.0	507.7	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	95	1796060	500.0	493.9	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	99	3304561	500.0	508.7	
97 n-Butyl acrylate	73	8.035	8.029	0.006	96	1459751	500.0	542.5	
98 o-Xylene	106	8.072	8.066	0.006	93	3376849	500.0	506.8	
99 Styrene	104	8.084	8.084	0.000	93	5850042	500.0	525.4	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	88	4355674	500.0	630.6	
101 Bromoform	173	8.224	8.224	0.000	95	1026312	500.0	524.6	
102 Isopropylbenzene	105	8.285	8.279	0.006	96	8882212	500.0	506.3	e
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	89	155234	50.0	46.1	
104 Bromobenzene	156	8.505	8.499	0.006	97	2144759	500.0	578.8	
105 1,1,2,2-Tetrachloroethane	83	8.511	8.505	0.006	99	2470332	500.0	595.8	
106 N-Propylbenzene	91	8.529	8.529	0.000	99	10107697	500.0	576.6	e
107 1,2,3-Trichloropropane	110	8.548	8.541	0.007	96	628377	500.0	557.8	
108 trans-1,4-Dichloro-2-buten	53	8.548	8.548	0.000	73	511813	500.0	499.7	
109 4-Ethyltoluene	105	8.596	8.590	0.006	97	8621050	500.0	584.4	
110 2-Chlorotoluene	91	8.608	8.602	0.006	96	7484216	500.0	595.5	a
111 1,3,5-Trimethylbenzene	105	8.639	8.627	0.012	92	7339053	500.0	596.5	
113 4-Chlorotoluene	91	8.676	8.670	0.006	96	6179954	500.0	572.1	a
112 Butyl Methacrylate	87	8.676	8.670	0.006	87	2815216	500.0	602.4	
114 tert-Butylbenzene	119	8.816	8.810	0.006	92	6090396	500.0	608.8	a
115 1,2,4-Trimethylbenzene	105	8.852	8.846	0.006	98	7557770	500.0	592.3	
116 sec-Butylbenzene	105	8.938	8.932	0.006	99	9185463	500.0	589.5	e
117 4-Isopropyltoluene	119	9.017	9.005	0.012	97	7821092	500.0	582.7	
118 1,3-Dichlorobenzene	146	9.035	9.023	0.012	95	3868499	500.0	508.5	
* 119 1,4-Dichlorobenzene-d4	152	9.072	9.066	0.006	95	182428	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.090	9.078	0.012	91	3912257	500.0	494.5	
136 1,2,3-Trimethylbenzene	105	9.096	9.084	0.012	99	8025506	500.0	573.7	
121 Benzyl chloride	91	9.169	9.157	0.012	98	4436073	500.0	635.3	
122 2,3-Dihydroindene	117	9.212	9.200	0.012	94	7882239	500.0	527.9	
123 p-Diethylbenzene	119	9.230	9.218	0.012	89	4275993	500.0	497.2	
124 n-Butylbenzene	92	9.249	9.236	0.013	96	4109181	500.0	532.7	
125 1,2-Dichlorobenzene	146	9.310	9.297	0.013	95	3632135	500.0	486.3	
126 1,2,4,5-Tetramethylbenzene	119	9.706	9.694	0.012	96	7521167	500.0	588.2	
127 1,2-Dibromo-3-Chloropropan	75	9.797	9.785	0.012	96	471116	500.0	610.2	
128 1,3,5-Trichlorobenzene	180	9.889	9.877	0.012	95	2804806	500.0	492.8	
129 1,2,4-Trichlorobenzene	180	10.346	10.334	0.012	93	2505530	500.0	497.8	
130 Hexachlorobutadiene	225	10.419	10.407	0.012	90	973430	500.0	411.3	
131 Naphthalene	128	10.559	10.547	0.012	99	6900492	500.0	571.0	
132 1,2,3-Trichlorobenzene	180	10.761	10.748	0.012	94	2115296	500.0	470.6	
S 133 1,2-Dichloroethene, Total	100				0		1000.0	920.8	
S 134 Xylenes, Total	100				0		1000.0	1015.5	
S 135 Total BTEX	1				0		2500.0	2490.3	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	40.00	Units: uL	
GAS Hi_00261	Amount Added:	50.00	Units: uL	
MIX I Hi_00095	Amount Added:	50.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	50.00	Units: uL	
Ethanol mix_00017	Amount Added:	50.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

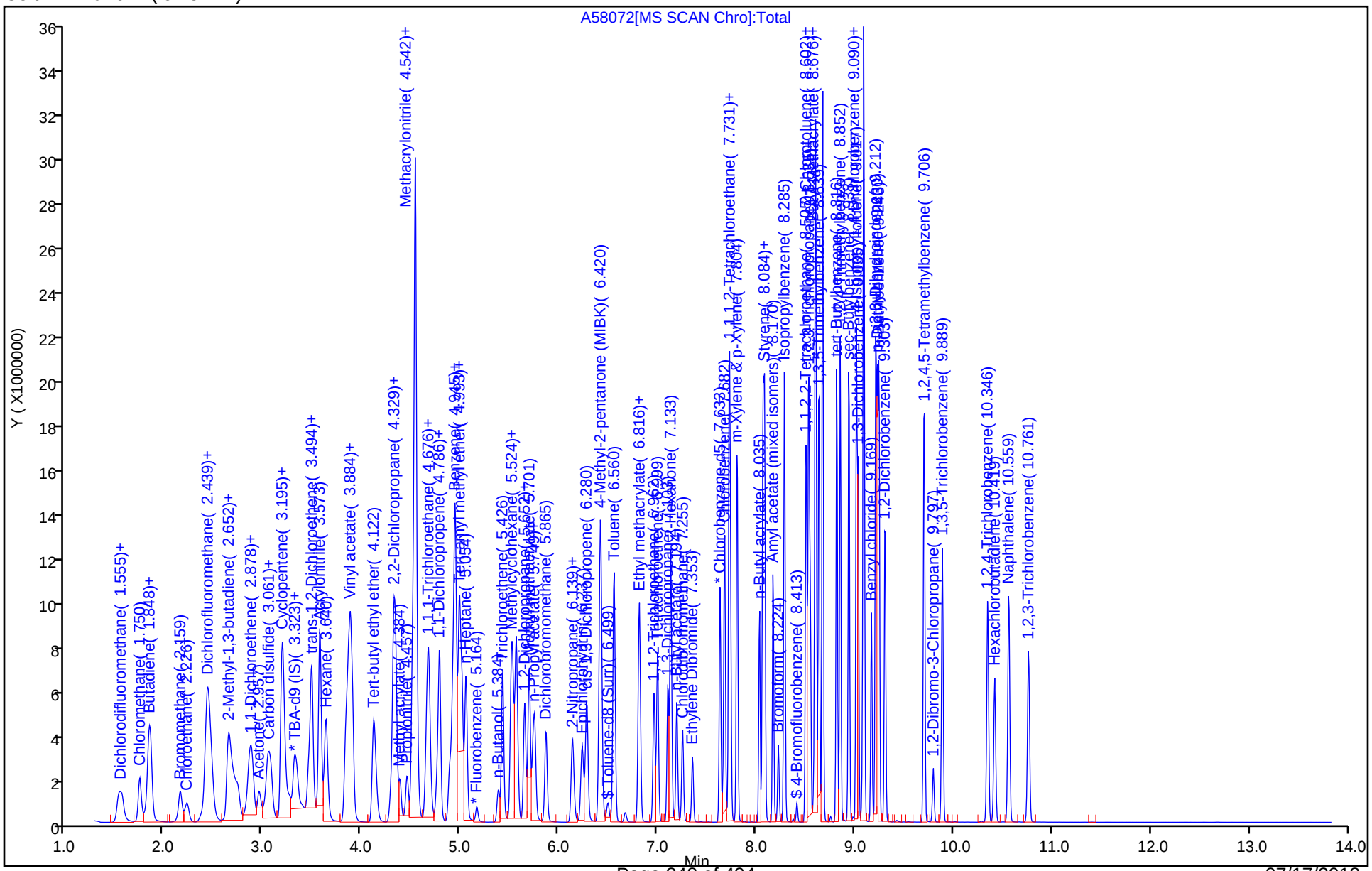
Report Date: 06-Jul-2018 11:47:55 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D

Injection Date:	02-Jul-2018 08:42:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD500			Worklist Smp#:	10
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	9
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

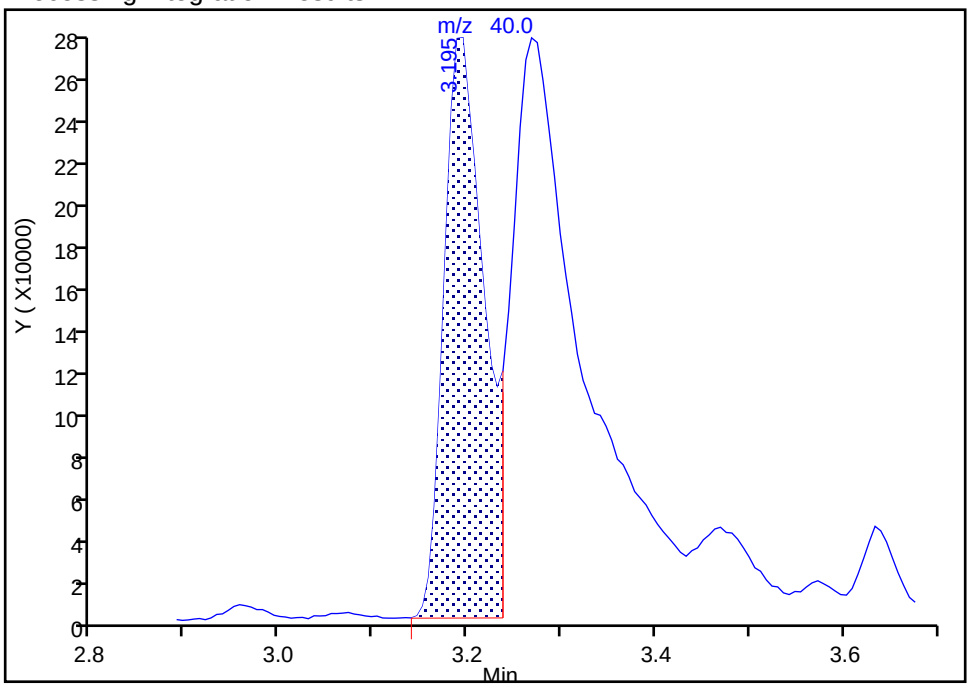
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D
Injection Date: 02-Jul-2018 08:42:30 Instrument ID: CVOAMS1
Lims ID: STD500
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Acetonitrile, CAS: 75-05-8

Signal: 1

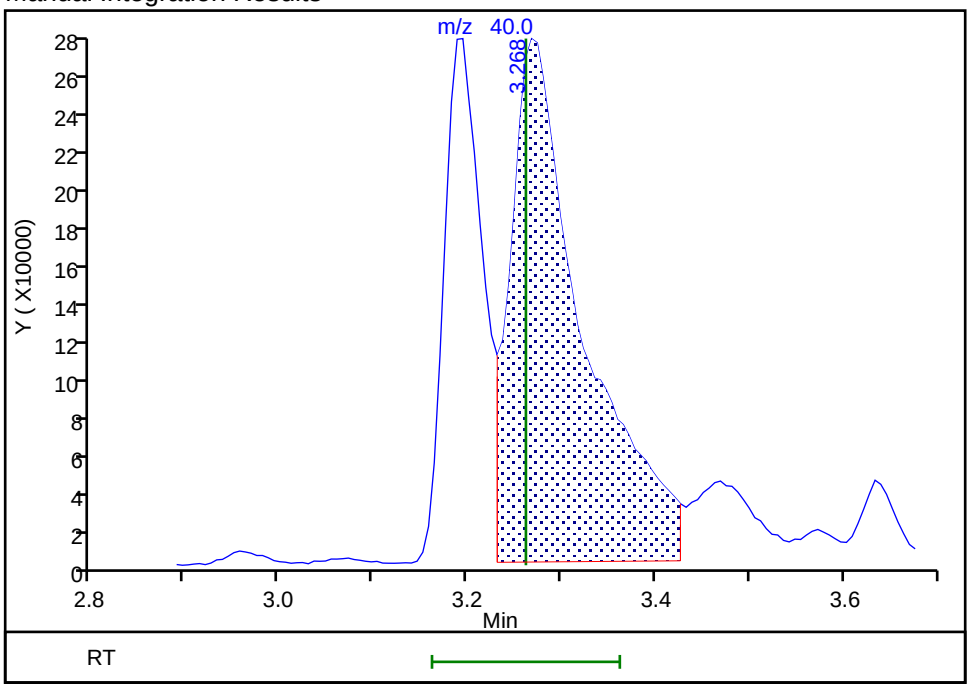
Processing Integration Results

RT: 3.19
Area: 812531
Amount: 3628.8428
Amount Units: ug/l



Manual Integration Results

RT: 3.27
Area: 1455834
Amount: 4860.0441
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:49:35
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

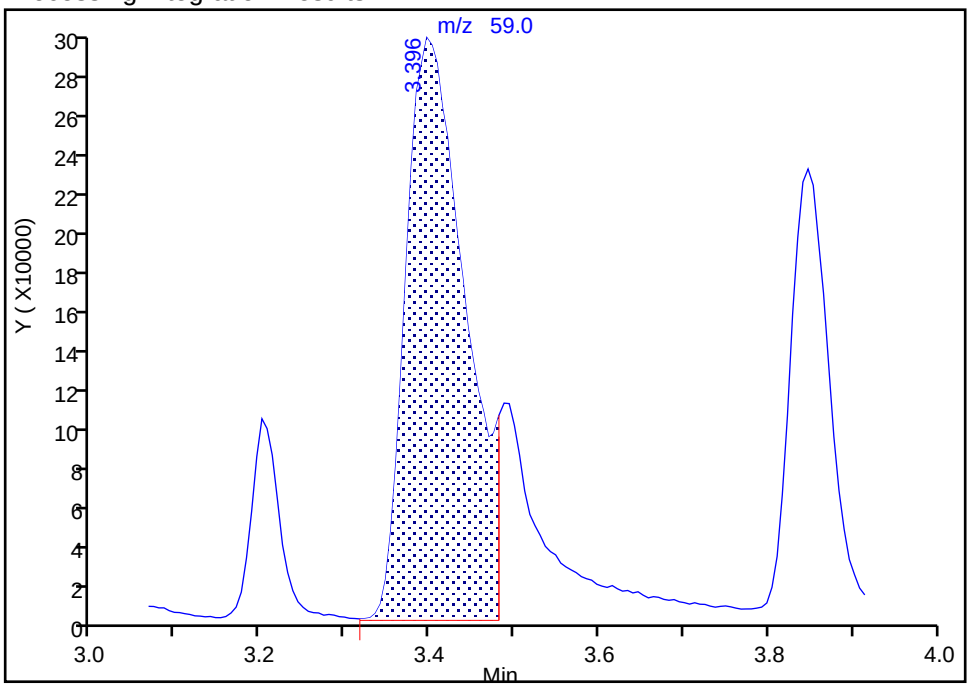
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D
Injection Date: 02-Jul-2018 08:42:30 Instrument ID: CVOAMS1
Lims ID: STD500
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 2-Methyl-2-propanol, CAS: 75-65-0

Signal: 1

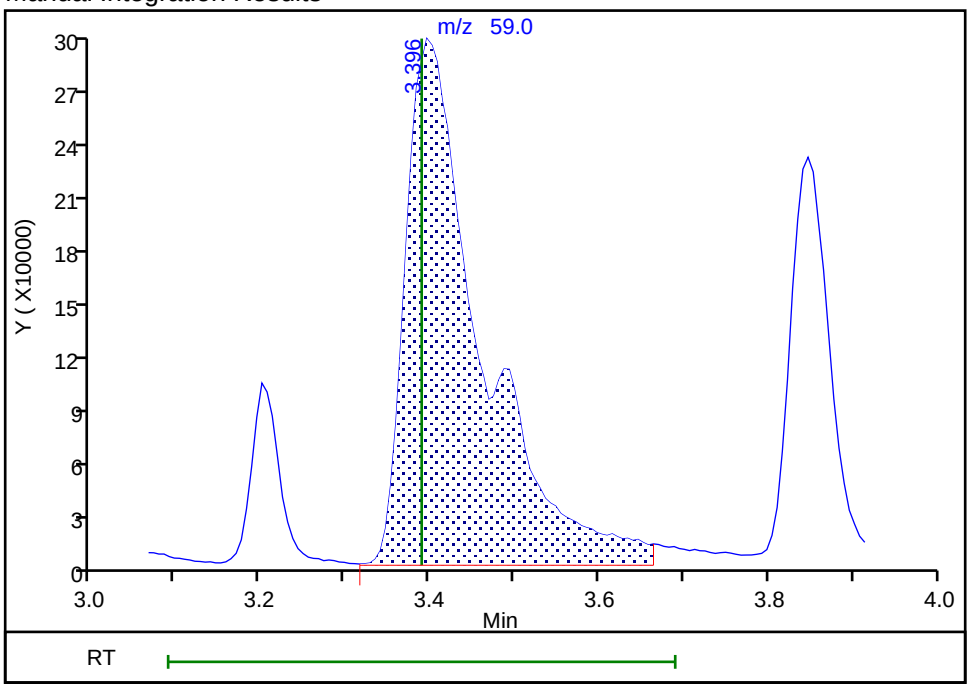
Processing Integration Results

RT: 3.40
Area: 1454783
Amount: 4269.5358
Amount Units: ug/l



Manual Integration Results

RT: 3.40
Area: 1842170
Amount: 4684.3164
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:49:52
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

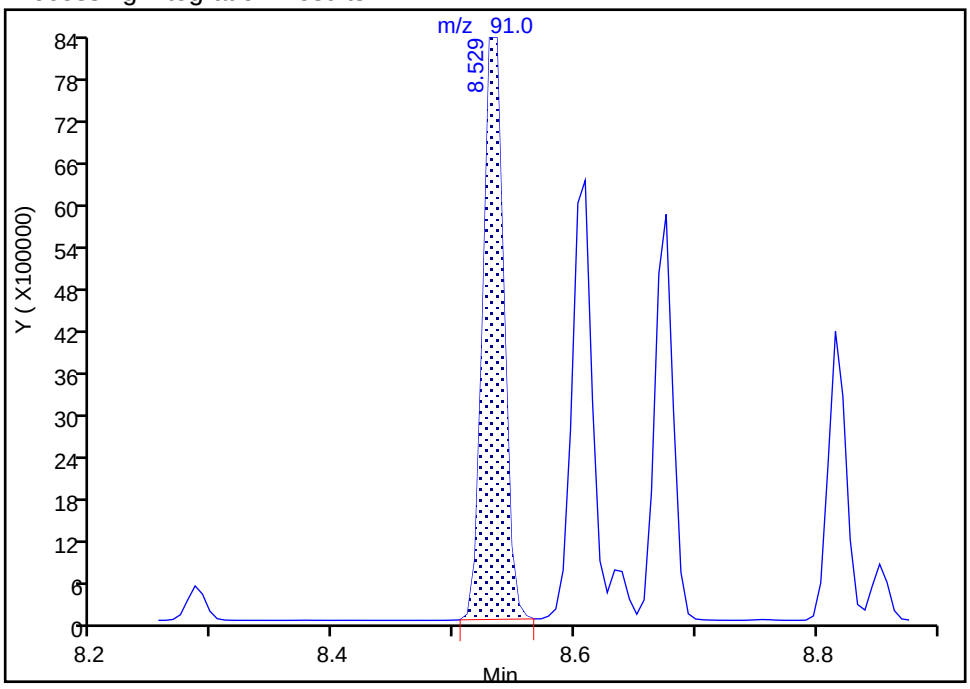
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D
Injection Date: 02-Jul-2018 08:42:30 Instrument ID: CVOAMS1
Lims ID: STD500
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

110 2-Chlorotoluene, CAS: 95-49-8

Signal: 1

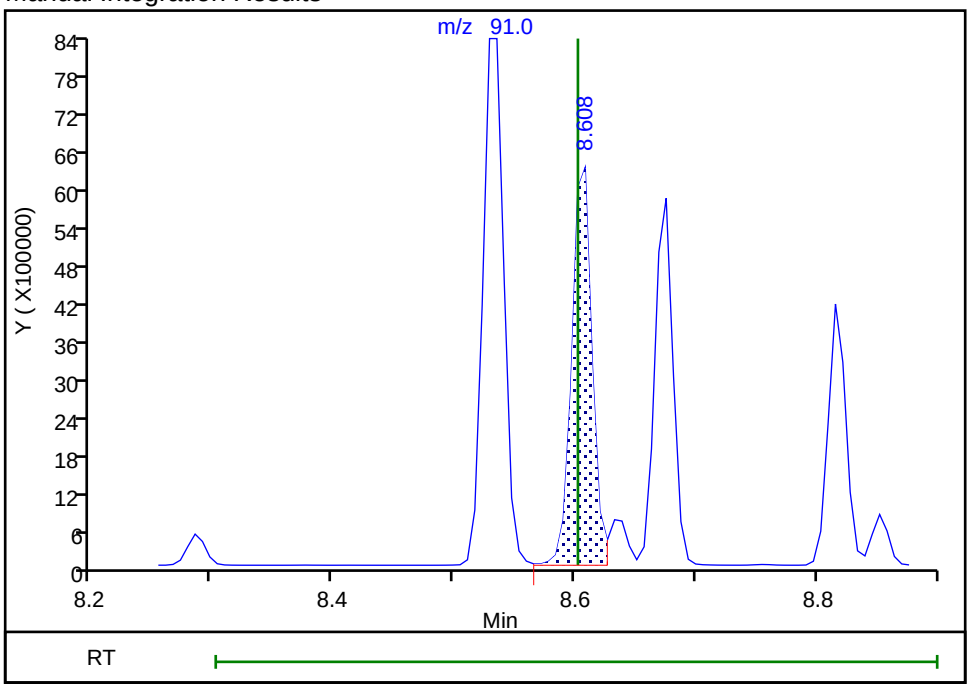
Processing Integration Results

RT: 8.53
Area: 10107697
Amount: 508.0716
Amount Units: ug/l



Manual Integration Results

RT: 8.61
Area: 7484216
Amount: 595.4674
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:50:16
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

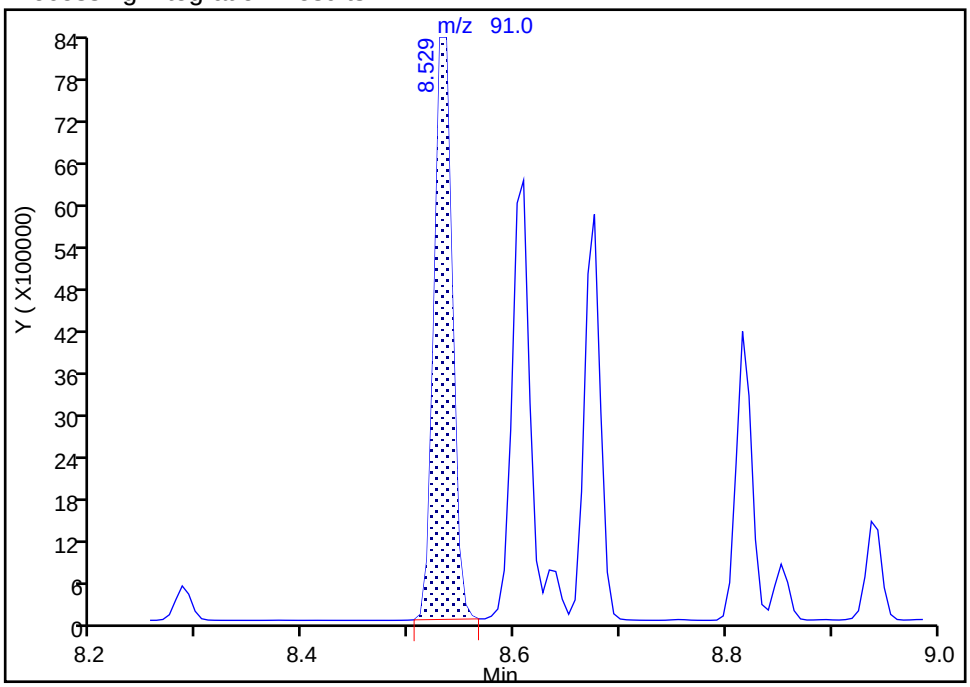
Data File:	\\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D				
Injection Date:	02-Jul-2018 08:42:30	Instrument ID:	CVOAMS1		
Lims ID:	STD500				
Client ID:					
Operator ID:	VOA GC/MS1	ALS Bottle#:	9	Worklist Smp#:	10
Purge Vol:	5.000 mL	Dil. Factor:	1.0000		
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		
Column:	Rtx-624 (0.25 mm)	Detector	MS SCAN		

113 4-Chlorotoluene, CAS: 106-43-4

Signal: 1

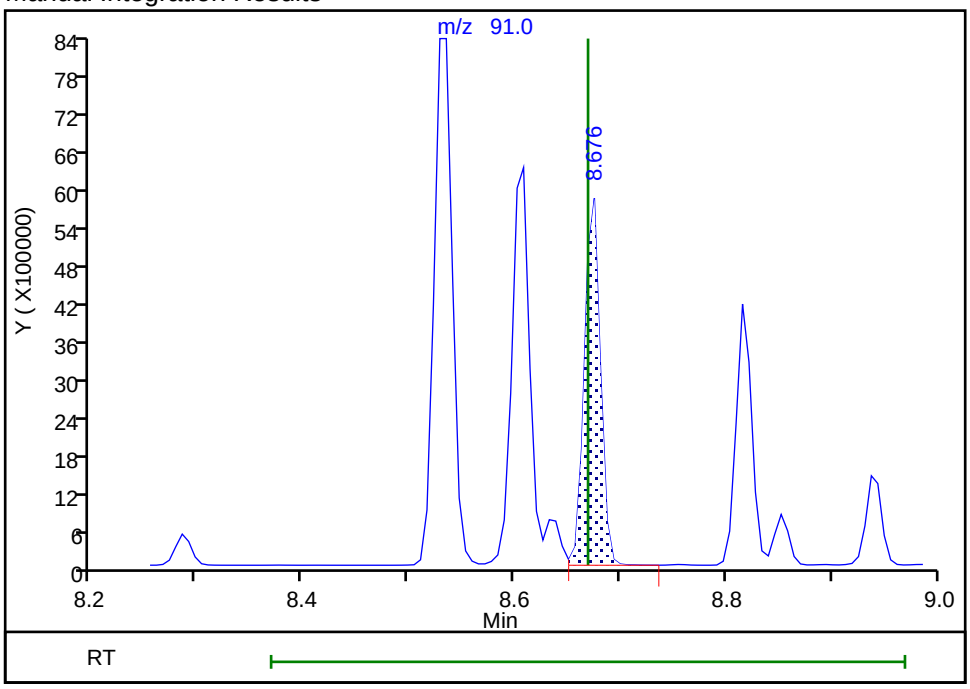
Processing Integration Results

RT: 8.53
Area: 10107697
Amount: 512.8111
Amount Units: ug/l



Manual Integration Results

RT: 8.68
Area: 6179954
Amount: 572.1259
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:50:33
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

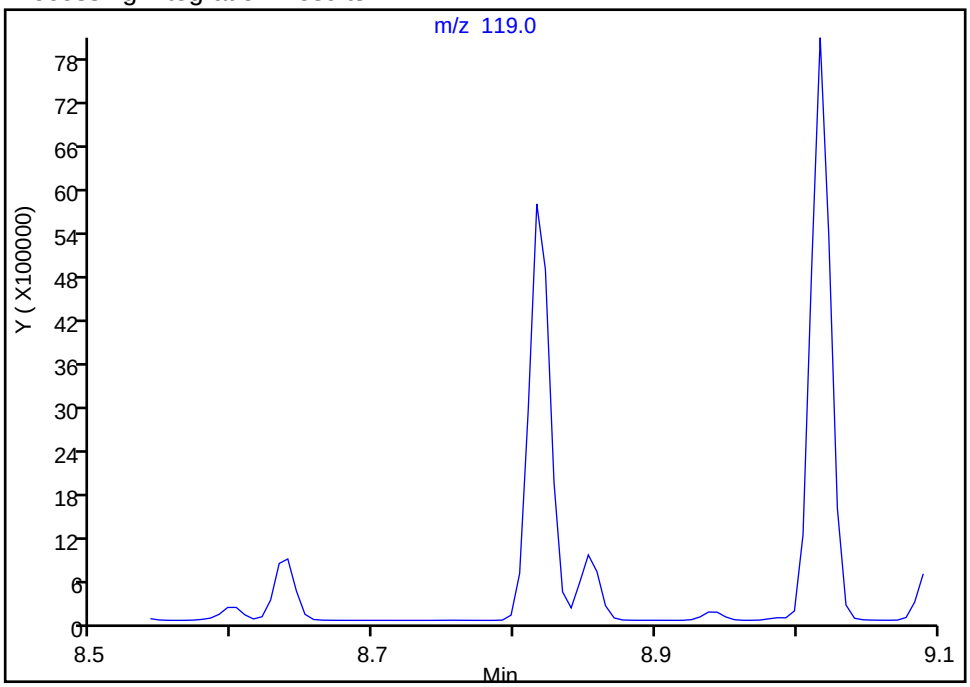
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58072.D
Injection Date: 02-Jul-2018 08:42:30 Instrument ID: CVOAMS1
Lims ID: STD500
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 9 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

114 tert-Butylbenzene, CAS: 98-06-6

Signal: 1

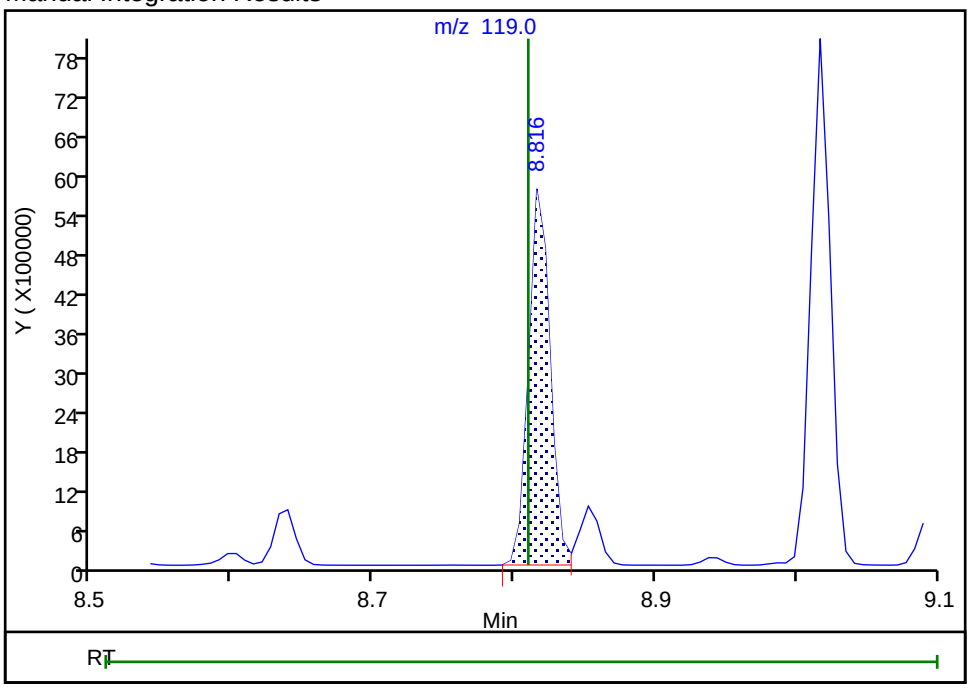
Not Detected
Expected RT: 8.81

Processing Integration Results



Manual Integration Results

RT: 8.82
Area: 6090396
Amount: 608.8034
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 10:50:29
Audit Action: Assigned Compound ID Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 02-Jul-2018 11:35:30 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074723-015
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 11:48:12 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK008

First Level Reviewer: moroneyc Date: 02-Jul-2018 11:53:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.537	1.525	0.012	81	1369	1.00	0.7541	
3 Dichlorodifluoromethane	85	1.567	1.555	0.012	79	4479	1.00	0.8785	
4 Chloromethane	50	1.744	1.738	0.006	99	6130	1.00	0.9292	
5 Vinyl chloride	62	1.841	1.829	0.012	97	5191	1.00	0.9093	
6 Butadiene	39	1.854	1.842	0.012	85	6257	1.00	1.02	M
7 Bromomethane	94	2.171	2.152	0.019	97	3501	1.00	1.03	
8 Chloroethane	64	2.226	2.213	0.013	99	3793	1.00	1.10	
10 Dichlorofluoromethane	67	2.439	2.421	0.018	81	8195	1.00	1.02	
11 Pentane	72	2.421	2.421	0.000	96	1495	2.00	1.98	
9 Trichlorofluoromethane	101	2.451	2.433	0.018	49	6029	1.00	1.02	
12 Ethanol	46	2.640	2.622	0.018	74	749	40.0	43.0	M
13 Ethyl ether	59	2.646	2.634	0.012	94	3455	1.00	1.04	
14 2-Methyl-1,3-butadiene	53	2.652	2.652	0.000	89	3893	1.00	1.03	
15 1,2-Dichloro-1,1,2-trifluo	117	2.732	2.719	0.013	69	2850	1.00	1.03	
16 Acrolein	56	2.829	2.823	0.006	90	2950	4.00	4.64	
18 1,1-Dichloroethene	96	2.866	2.847	0.019	94	3523	1.00	1.08	
17 1,1,2-Trichloro-1,2,2-trif	101	2.866	2.854	0.012	49	2908	1.00	0.9268	
19 Acetone	58	2.963	2.951	0.012	86	2202	5.00	5.80	M
20 Iodomethane	142	3.024	3.012	0.012	80	6491	1.00	1.09	a
21 Carbon disulfide	76	3.067	3.043	0.024	100	19875	1.00	1.20	
22 Isopropyl alcohol	45	3.091	3.055	0.036	32	2744	10.0	10.6	a
23 3-Chloro-1-propene	76	3.189	3.177	0.012	91	2486	1.00	1.06	
25 Cyclopentene	67	3.207	3.195	0.012	89	9444	1.00	0.9761	
24 Methyl acetate	43	3.207	3.195	0.012	84	7178	2.00	2.07	
26 Acetonitrile	40	3.280	3.262	0.018	34	3371	10.0	9.13	M
* 28 TBA-d9 (IS)	65	3.329	3.311	0.018	0	317225	1000.0	1000.0	
27 Methylene Chloride	84	3.323	3.311	0.012	32	5387	1.00	1.16	
29 2-Methyl-2-propanol	59	3.396	3.390	0.006	93	6075	10.0	12.5	
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	96	10823	1.00	0.9730	
31 trans-1,2-Dichloroethene	96	3.494	3.488	0.006	98	4325	1.00	1.06	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.573	3.567	0.006	92	21015	10.0	11.7	
33 Hexane	43	3.646	3.634	0.012	94	3965	1.00	1.03	
34 Isopropyl ether	45	3.841	3.841	0.000	97	13509	1.00	0.9541	
35 1,1-Dichloroethane	63	3.865	3.859	0.006	98	7915	1.00	1.02	
36 Vinyl acetate	86	3.884	3.878	0.006	100	1117	2.00	2.00	
37 2-Chloro-1,3-butadiene	88	3.908	3.896	0.012	92	3171	1.00	0.9327	
38 Tert-butyl ethyl ether	59	4.121	4.116	0.005	89	10441	1.00	0.8953	
* 39 2-Butanone-d5	46	4.292	4.286	0.006	0	374889	250.0	250.0	
40 2,2-Dichloropropane	97	4.304	4.311	-0.007	48	1227	1.00	0.9429	
41 cis-1,2-Dichloroethene	96	4.323	4.317	0.006	97	4672	1.00	1.04	
42 Ethyl acetate	70	4.335	4.335	0.000	93	744	2.00	1.98	
43 2-Butanone (MEK)	72	4.347	4.335	0.012	95	2316	5.00	5.23	
44 Methyl acrylate	55	4.390	4.378	0.012	97	3797	1.00	1.08	
45 Propionitrile	54	4.457	4.451	0.006	96	6581	10.0	9.42	a
47 Tetrahydrofuran	72	4.518	4.506	0.012	54	1003	2.00	1.94	
46 Chlorobromomethane	128	4.512	4.506	0.006	93	2237	1.00	1.02	
48 Methacrylonitrile	67	4.536	4.530	0.006	96	15602	10.0	9.48	
49 Chloroform	83	4.554	4.548	0.006	97	6909	1.00	0.9766	
50 Cyclohexane	56	4.664	4.658	0.006	31	6125	1.00	0.8844	
51 1,1,1-Trichloroethane	97	4.670	4.670	0.000	36	5159	1.00	0.9170	
$ 52 Dibromofluoromethane (Surr	113	4.682	4.676	0.006	96	137538	50.0	45.8	
54 Carbon tetrachloride	117	4.774	4.762	0.012	96	4197	1.00	0.9174	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	95	5088	1.00	0.9541	
56 Isobutyl alcohol	43	4.908	4.890	0.018	91	5832	25.0	19.2	
57 Isooctane	57	4.914	4.914	0.000	96	11464	1.00	0.8362	
58 Benzene	78	4.945	4.945	-0.001	99	13299	1.00	0.9297	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	171716	50.0	44.2	
60 Isopropyl acetate	43	4.987	4.981	0.006	86	10233	1.00	0.8039	
61 Tert-amyl methyl ether	87	4.993	4.987	0.006	90	2978	1.00	0.8948	
62 1,2-Dichloroethane	62	5.018	5.012	0.006	95	6190	1.00	1.08	
63 n-Heptane	71	5.048	5.054	-0.006	91	2826	1.00	0.9070	a
* 64 Fluorobenzene	96	5.164	5.158	0.006	98	514592	50.0	50.0	
65 n-Butanol	56	5.383	5.377	0.006	97	1993	25.0	23.6	
66 Trichloroethene	95	5.426	5.420	0.006	94	3478	1.00	0.9348	
67 Ethyl acrylate	56	5.518	5.512	0.006	93	2194	1.00	0.8461	
68 Methylcyclohexane	83	5.518	5.524	-0.006	85	4933	1.00	0.8089	
69 1,2-Dichloropropane	63	5.646	5.646	0.000	83	3896	1.00	0.9686	
* 71 1,4-Dioxane-d8	96	5.688	5.688	0.000	0	25800	1000.0	1000.0	
70 Methyl methacrylate	100	5.688	5.694	-0.006	77	1282	2.00	1.54	
73 1,4-Dioxane	88	5.743	5.731	0.012	30	1293	50.0	35.9	
72 n-Propyl acetate	43	5.731	5.731	0.000	98	5205	1.00	0.9389	
74 Dibromomethane	93	5.749	5.749	0.000	91	2593	1.00	1.05	
75 Dichlorobromomethane	83	5.865	5.859	0.006	94	4170	1.00	0.8710	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	85	1857	1.00	0.8731	
77 2-Nitropropane	41	6.133	6.140	-0.007	94	2331	2.00	2.37	
78 Epichlorohydrin	57	6.231	6.225	0.006	98	6454	20.0	18.6	
79 cis-1,3-Dichloropropene	75	6.274	6.274	0.000	97	4516	1.00	0.9389	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	98	15689	5.00	3.75	
$ 81 Toluene-d8 (Surr)	98	6.493	6.487	0.006	98	408414	50.0	44.4	
82 Toluene	91	6.548	6.554	-0.006	93	12774	1.00	0.9503	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	95	4339	1.00	1.04	
84 Ethyl methacrylate	69	6.816	6.816	0.000	82	2903	1.00	0.7225	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.962	6.963	-0.001	90	2442	1.00	1.00	
86 Tetrachloroethene	166	6.993	6.999	-0.006	90	2925	1.00	0.9064	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	94	4656	1.00	1.00	
88 2-Hexanone	43	7.133	7.133	0.000	97	9902	5.00	3.93	
89 n-Butyl acetate	73	7.194	7.194	0.000	97	664	1.00	0.8287	
90 Chlorodibromomethane	129	7.249	7.249	0.000	97	2509	1.00	0.9340	
91 Ethylene Dibromide	107	7.353	7.353	0.000	99	2921	1.00	1.08	
* 92 Chlorobenzene-d5	117	7.657	7.658	-0.001	88	322582	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	95	8308	1.00	0.9742	
94 Ethylbenzene	106	7.724	7.725	-0.001	99	4026	1.00	0.8753	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	90	2824	1.00	0.9050	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	98	4600	1.00	0.8250	
97 n-Butyl acrylate	73	8.035	8.029	0.006	96	1768	1.00	0.7657	
98 o-Xylene	106	8.072	8.066	0.006	94	4586	1.00	0.8020	
99 Styrene	104	8.090	8.084	0.006	93	7623	1.00	0.7978	
100 Amyl acetate (mixed isomer	43	8.176	8.170	0.006	88	5834	1.00	0.7608	
101 Bromoform	173	8.230	8.224	0.006	94	1577	1.00	0.9393	
102 Isopropylbenzene	105	8.291	8.279	0.012	96	11960	1.00	0.7943	
$ 103 4-Bromofluorobenzene	174	8.426	8.413	0.013	91	128459	50.0	44.4	
104 Bromobenzene	156	8.517	8.499	0.018	96	3993	1.00	0.9706	
105 1,1,2,2-Tetrachloroethane	83	8.523	8.505	0.018	96	3946	1.00	0.8572	
106 N-Propylbenzene	91	8.541	8.529	0.012	99	16022	1.00	0.8233	
107 1,2,3-Trichloropropane	110	8.560	8.541	0.019	92	1016	1.00	0.8123	
108 trans-1,4-Dichloro-2-buten	53	8.566	8.548	0.018	74	1610	1.00	2.16	
109 4-Ethyltoluene	105	8.615	8.590	0.025	96	12756	1.00	0.7789	
110 2-Chlorotoluene	91	8.621	8.602	0.019	96	11844	1.00	0.8488	
111 1,3,5-Trimethylbenzene	105	8.651	8.627	0.024	92	10058	1.00	0.7363	a
112 Butyl Methacrylate	87	8.688	8.670	0.018	88	3019	1.00	1.01	
113 4-Chlorotoluene	91	8.688	8.670	0.018	96	10504	1.00	0.8759	
114 tert-Butylbenzene	119	8.834	8.810	0.024	93	8234	1.00	0.7413	
115 1,2,4-Trimethylbenzene	105	8.871	8.846	0.025	98	10399	1.00	0.7340	
116 sec-Butylbenzene	105	8.962	8.932	0.030	99	13190	1.00	0.7625	
117 4-Isopropyltoluene	119	9.041	9.005	0.036	97	10613	1.00	0.7122	
118 1,3-Dichlorobenzene	146	9.060	9.023	0.037	92	8032	1.00	0.9509	
* 119 1,4-Dichlorobenzene-d4	152	9.102	9.066	0.036	96	202540	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.114	9.078	0.036	91	8699	1.00	0.99	
136 1,2,3-Trimethylbenzene	105	9.121	9.084	0.037	97	12185	1.00	0.7846	a
121 Benzyl chloride	91	9.194	9.157	0.037	98	5883	1.00	0.7589	
122 2,3-Dihydroindene	117	9.236	9.200	0.036	92	13474	1.00	0.8128	
123 p-Diethylbenzene	119	9.255	9.218	0.037	92	7742	1.00	0.8109	
124 n-Butylbenzene	92	9.273	9.236	0.037	97	7164	1.00	0.8365	
125 1,2-Dichlorobenzene	146	9.334	9.297	0.037	93	7749	1.00	0.9344	
126 1,2,4,5-Tetramethylbenzene	119	9.736	9.694	0.042	96	10809	1.00	0.7614	
127 1,2-Dibromo-3-Chloropropan	75	9.828	9.785	0.043	87	772	1.00	0.9006	
128 1,3,5-Trichlorobenzene	180	9.919	9.877	0.042	95	6211	1.00	0.9828	
129 1,2,4-Trichlorobenzene	180	10.382	10.334	0.048	93	6270	1.00	1.12	
130 Hexachlorobutadiene	225	10.456	10.407	0.049	92	3362	1.00	1.28	
131 Naphthalene	128	10.596	10.547	0.049	98	13619	1.00	1.02	
132 1,2,3-Trichlorobenzene	180	10.803	10.748	0.055	95	6101	1.00	1.22	
S 133 1,2-Dichloroethene, Total	100				0		2.00	2.10	
S 134 Xylenes, Total	100				0		2.00	1.63	
S 135 Total BTEX	1				0		5.00	4.38	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GAS Hi_00261	Amount Added:	1.00	Units: uL	
MIX I Hi_00095	Amount Added:	1.00	Units: uL	
MIX 2 Hi_00072	Amount Added:	1.00	Units: uL	
Ethanol mix_00017	Amount Added:	1.00	Units: uL	
14DIOXINTER_00085	Amount Added:	30.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

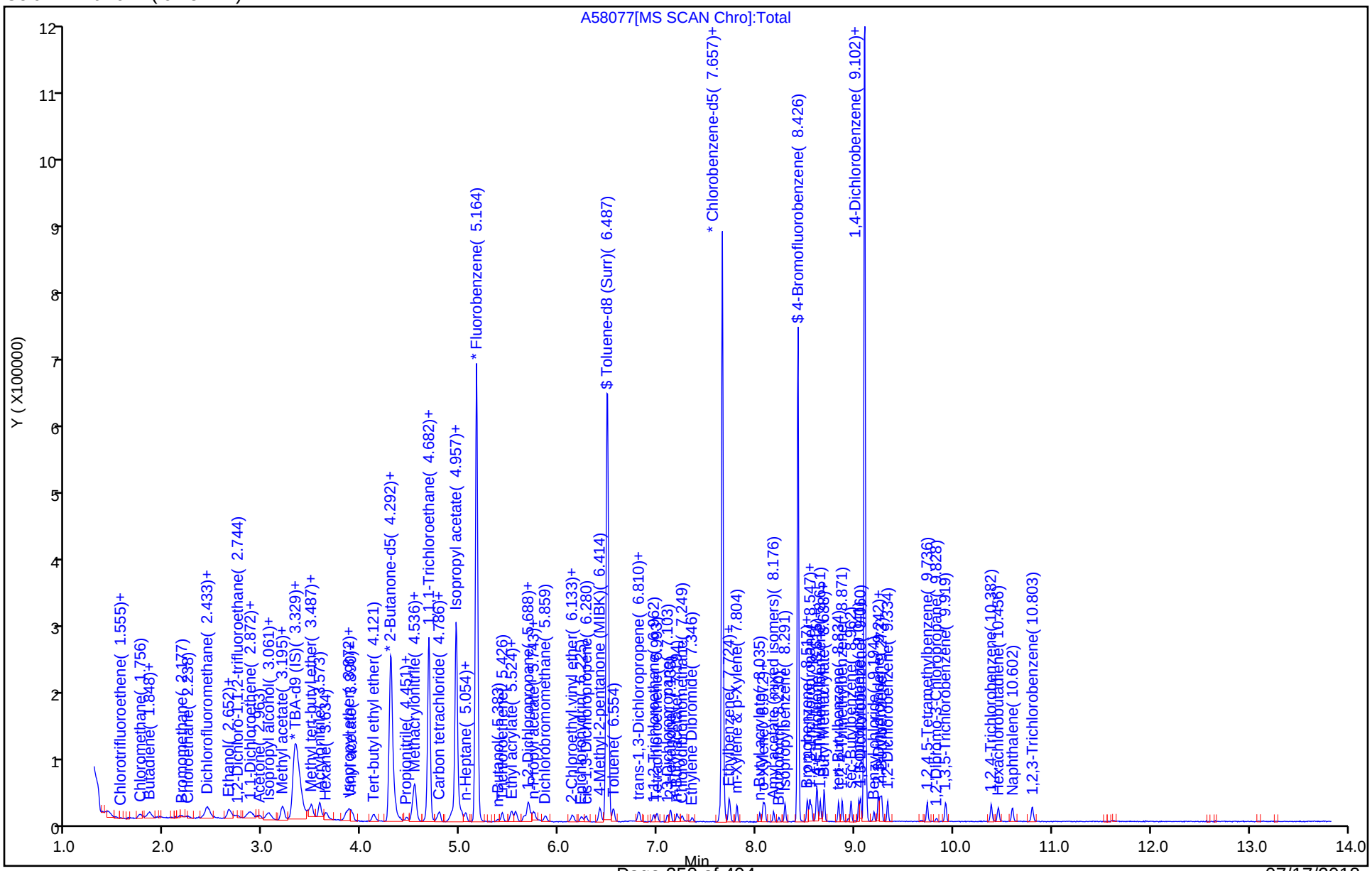
Report Date: 06-Jul-2018 11:48:24 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Injection Date:	02-Jul-2018 11:35:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	STD1			Worklist Smp#:	15
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	14
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

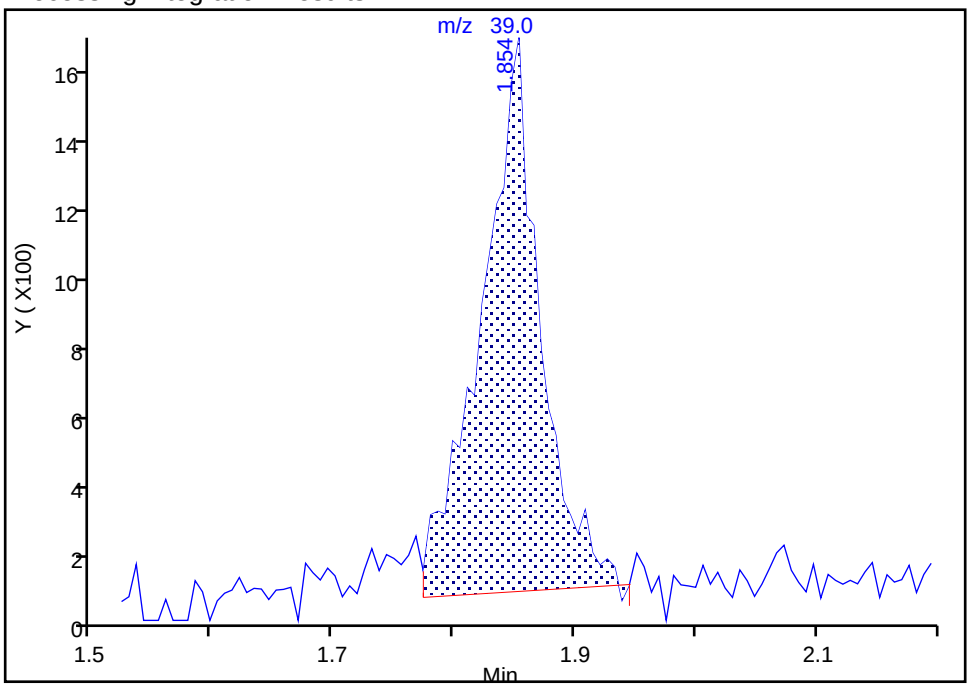
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

6 Butadiene, CAS: 106-99-0

Signal: 1

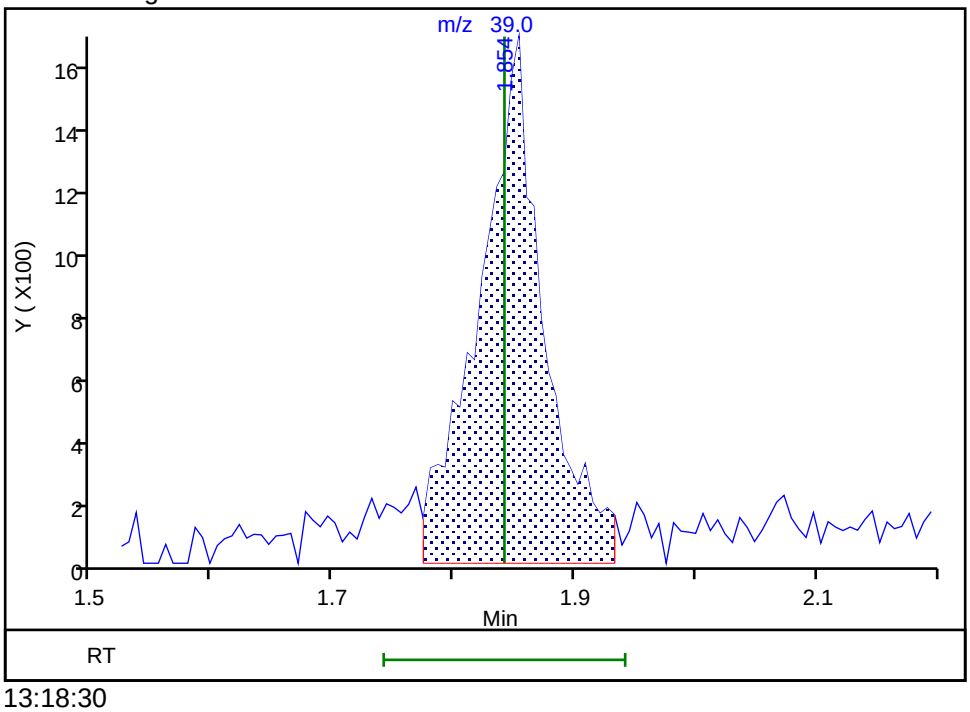
Processing Integration Results

RT: 1.85
Area: 5419
Amount: 0.902281
Amount Units: ug/l



Manual Integration Results

RT: 1.85
Area: 6257
Amount: 1.021450
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:18:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

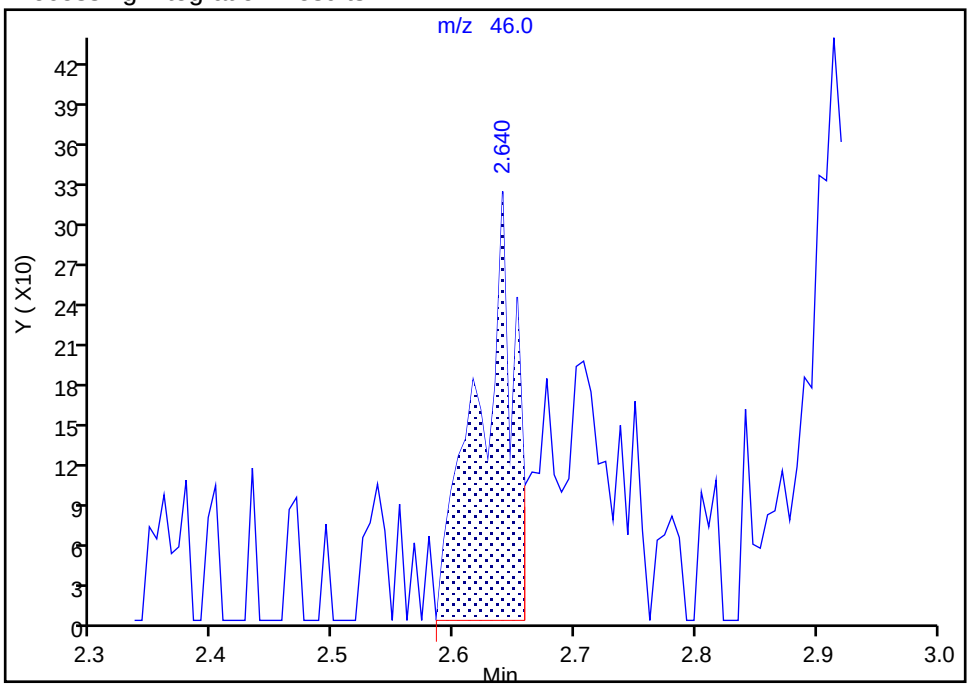
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

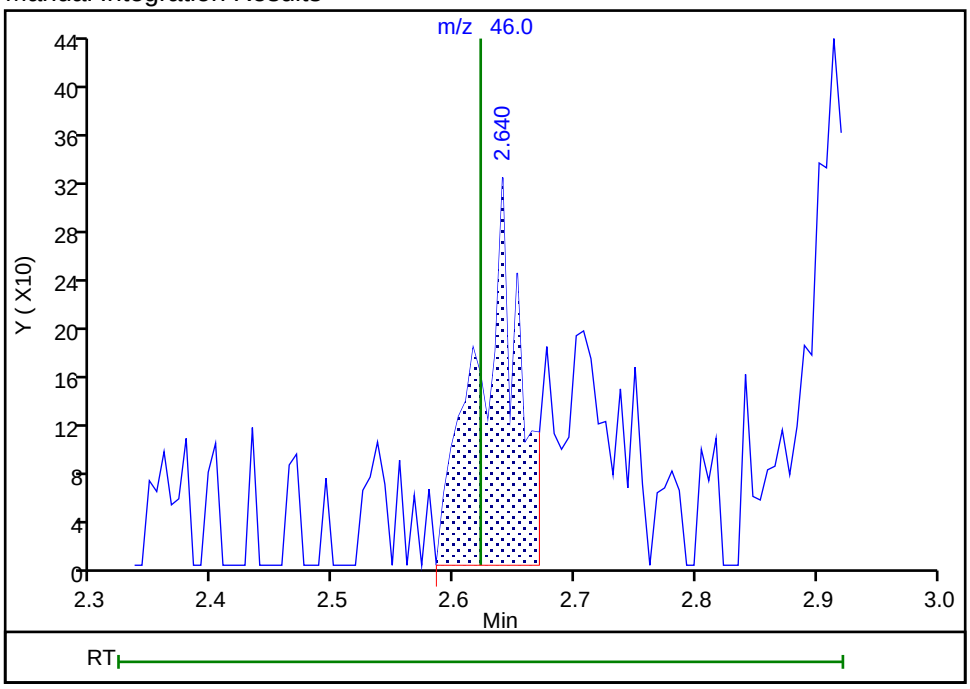
Processing Integration Results

RT: 2.64
Area: 668
Amount: 39.128881
Amount Units: ug/l



Manual Integration Results

RT: 2.64
Area: 749
Amount: 43.023009
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:19:30
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

Manual Integration/User Assign Peak Report

TestAmerica Edison

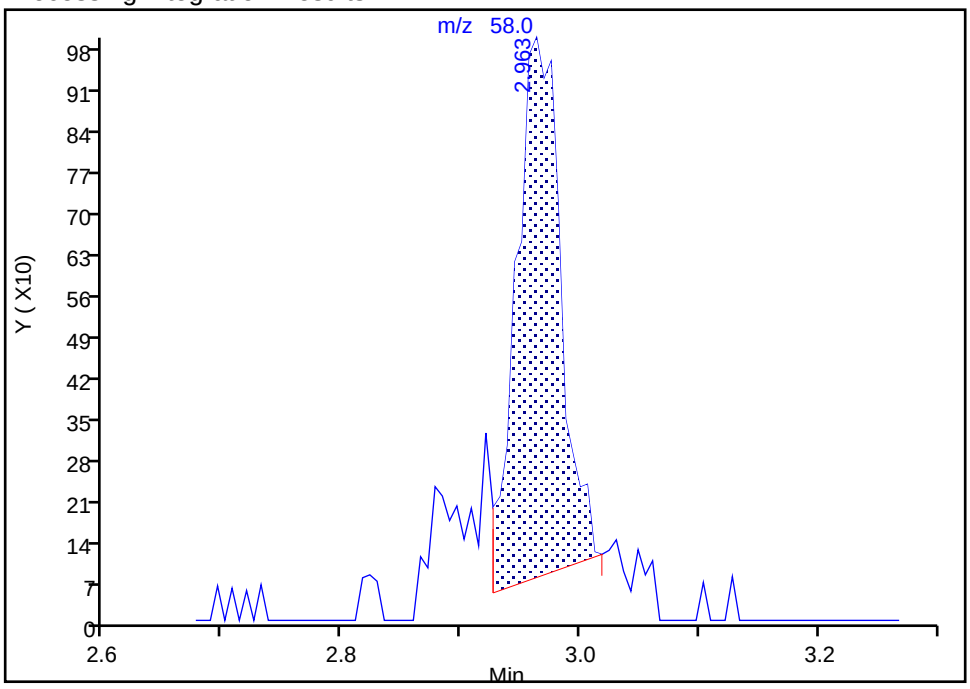
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

19 Acetone, CAS: 67-64-1

Signal: 1

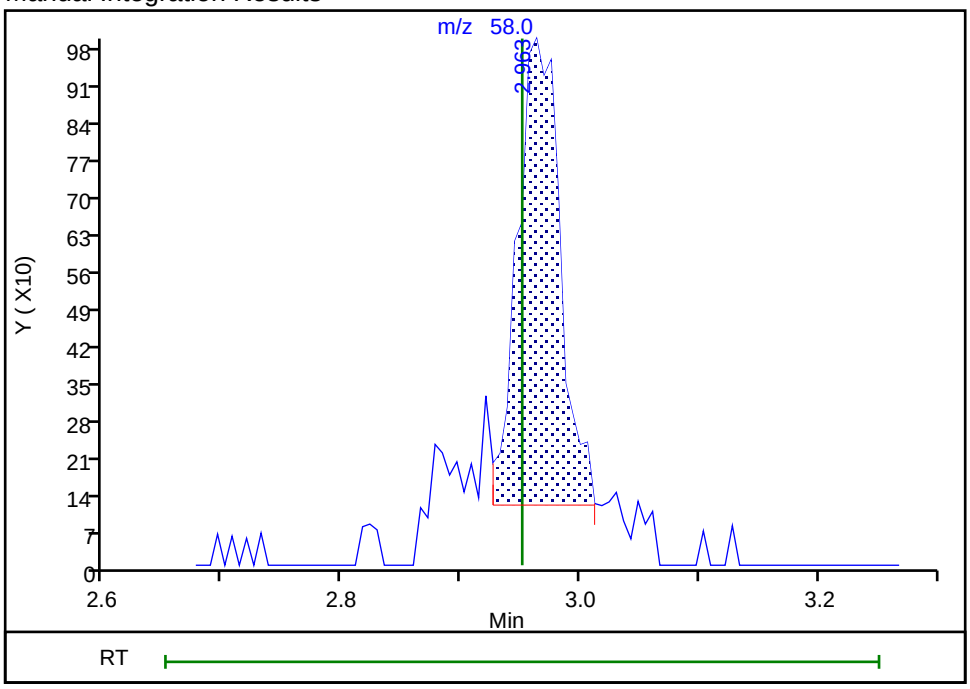
Processing Integration Results

RT: 2.96
Area: 2400
Amount: 7.805685
Amount Units: ug/l



Manual Integration Results

RT: 2.96
Area: 2202
Amount: 5.804025
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:20:01
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

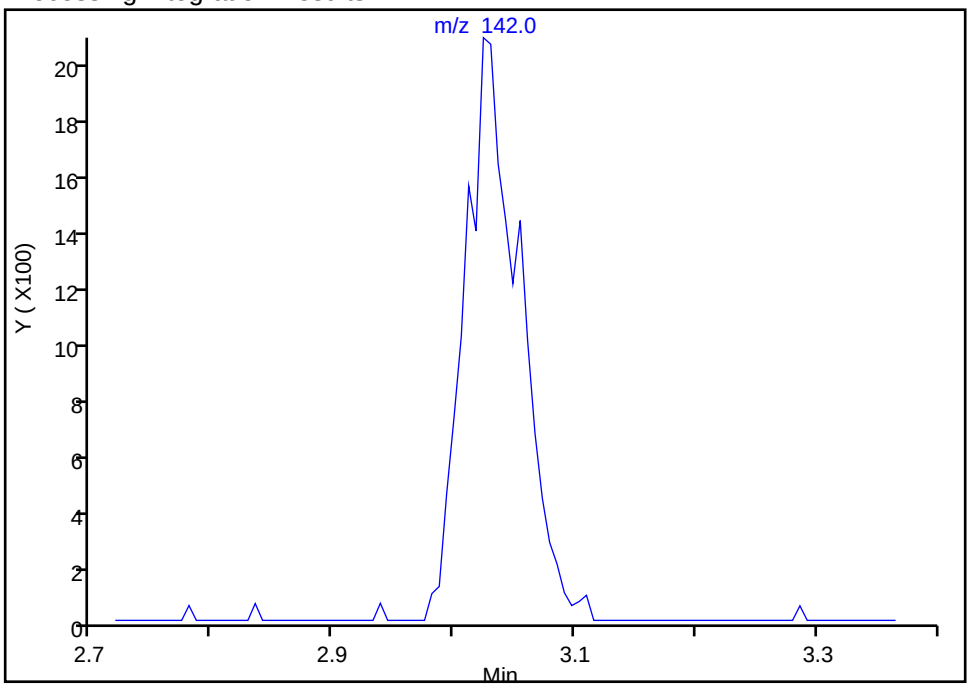
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

20 Iodomethane, CAS: 74-88-4

Signal: 1

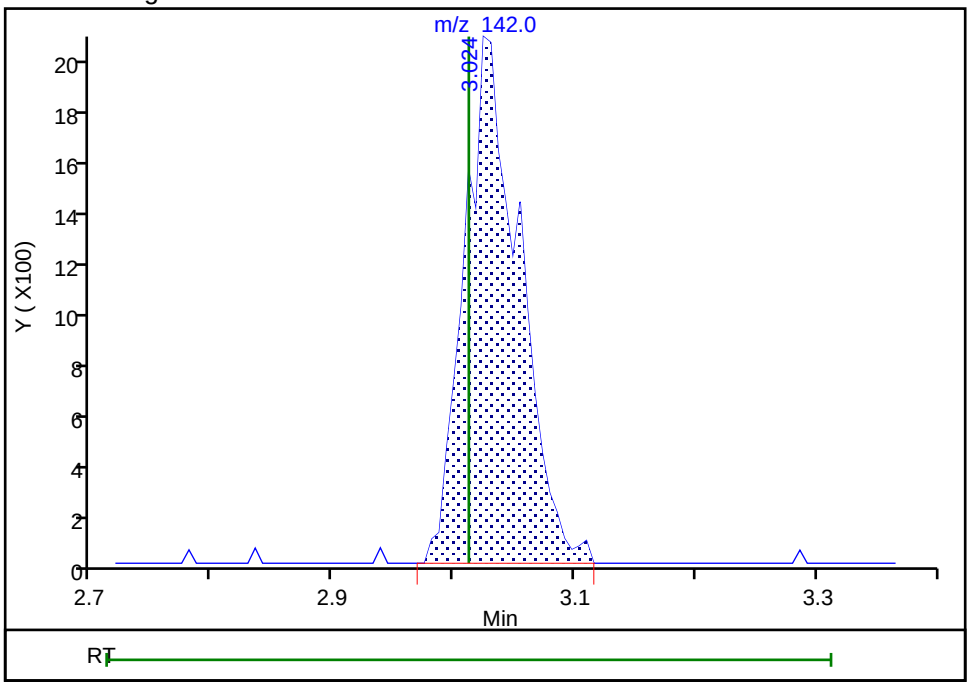
Not Detected
Expected RT: 3.01

Processing Integration Results



Manual Integration Results

RT: 3.02
Area: 6491
Amount: 1.086504
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:20:07
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

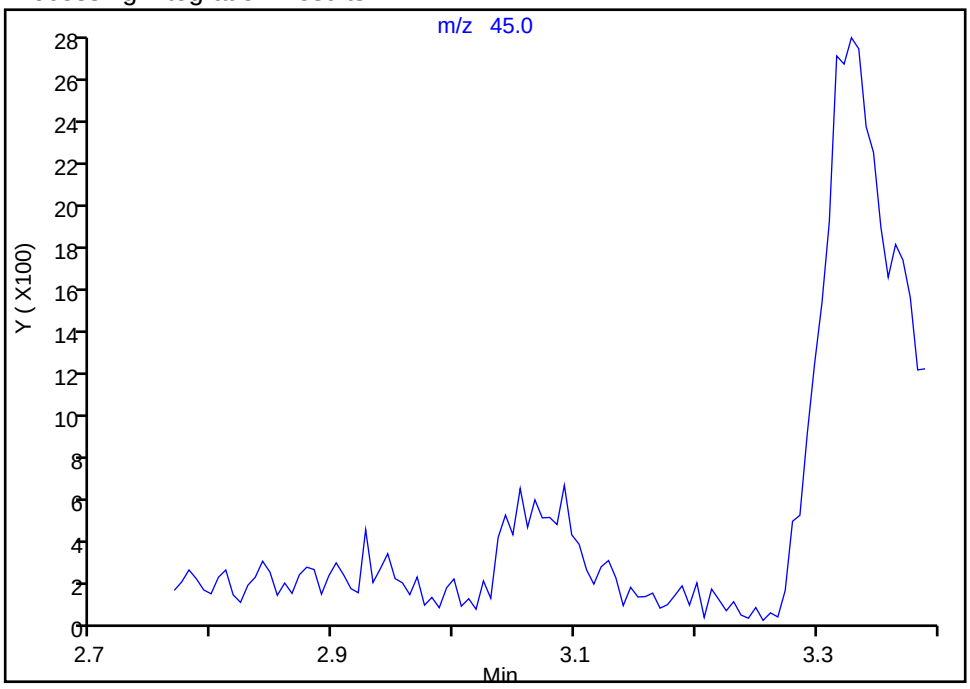
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

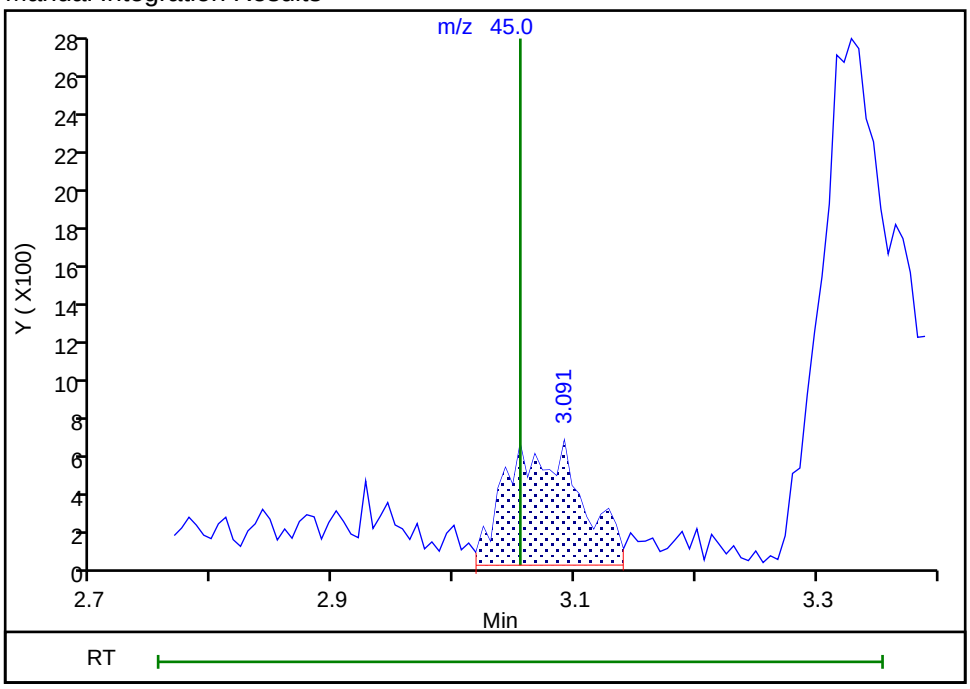
Not Detected
Expected RT: 3.05

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 2744
Amount: 10.612997
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:20:11
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

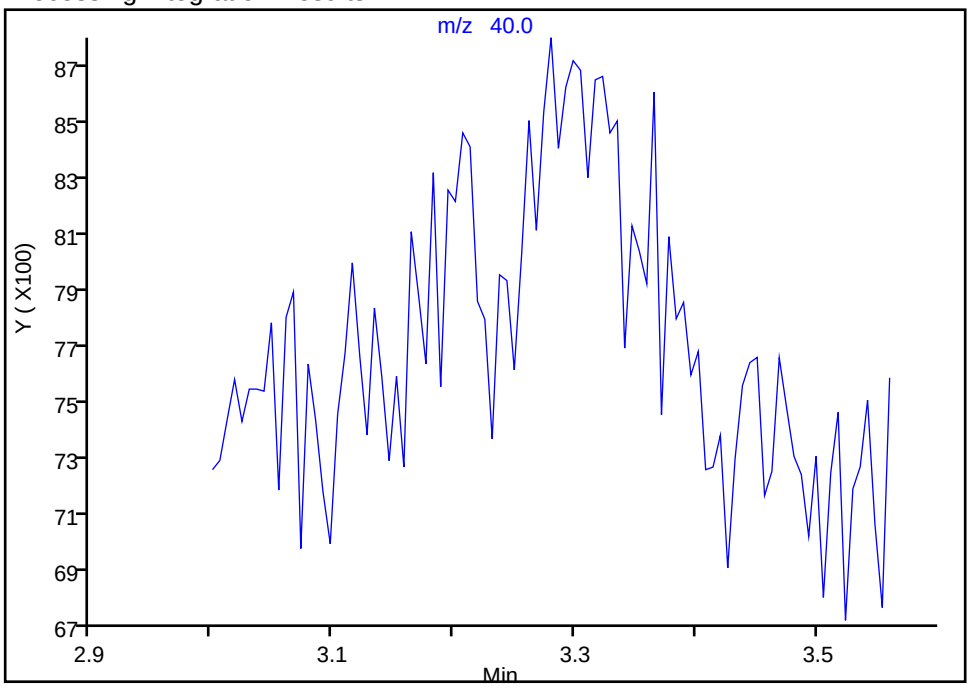
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Acetonitrile, CAS: 75-05-8

Signal: 1

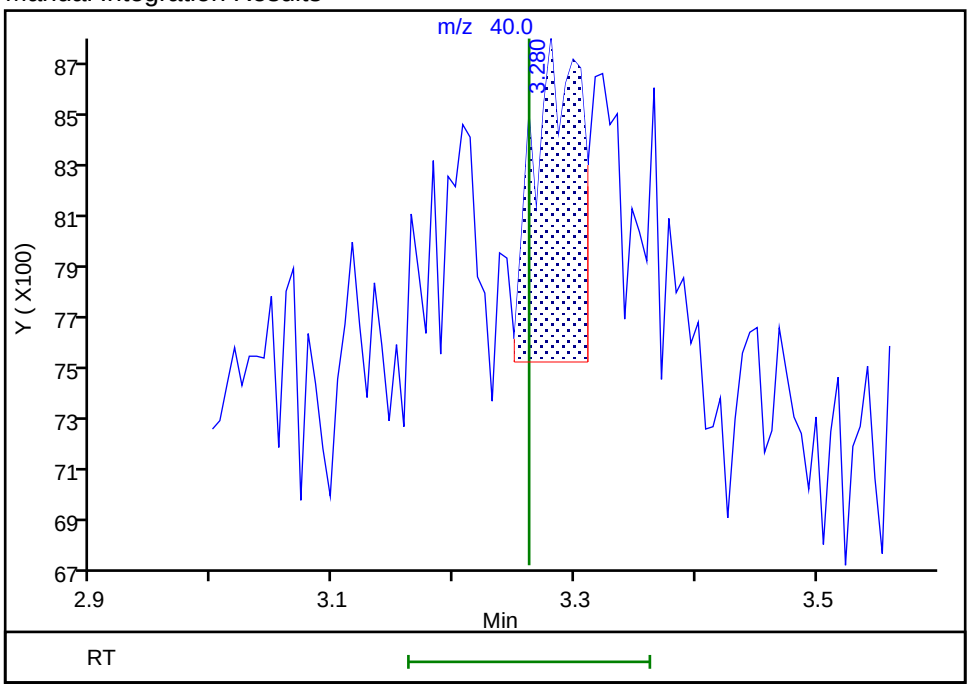
Not Detected
Expected RT: 3.26

Processing Integration Results



Manual Integration Results

RT: 3.28
Area: 3371
Amount: 9.132059
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:20:40
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

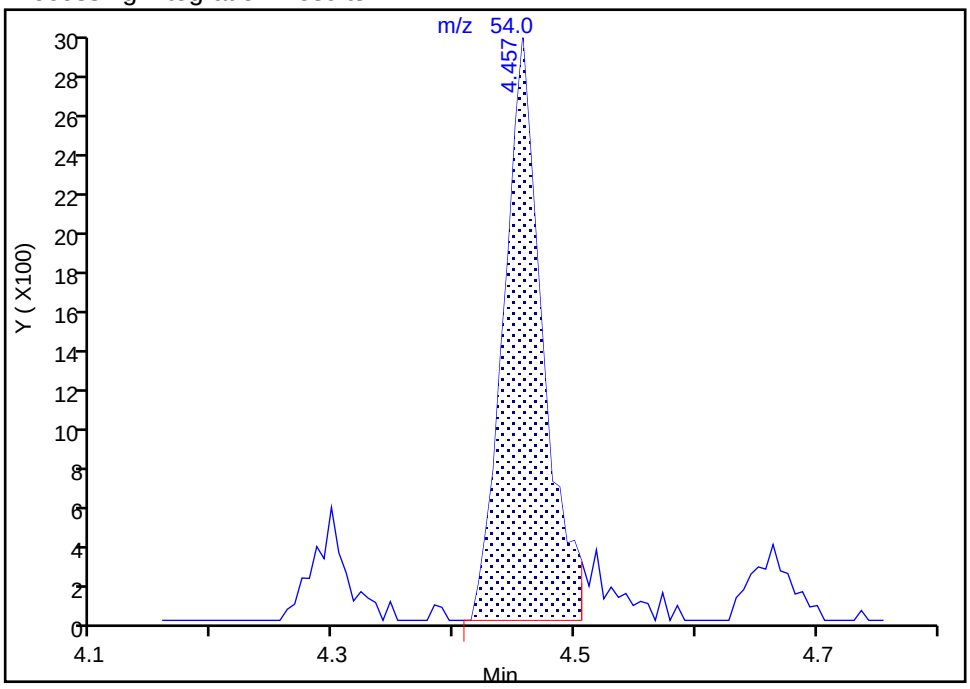
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Propionitrile, CAS: 107-12-0

Signal: 1

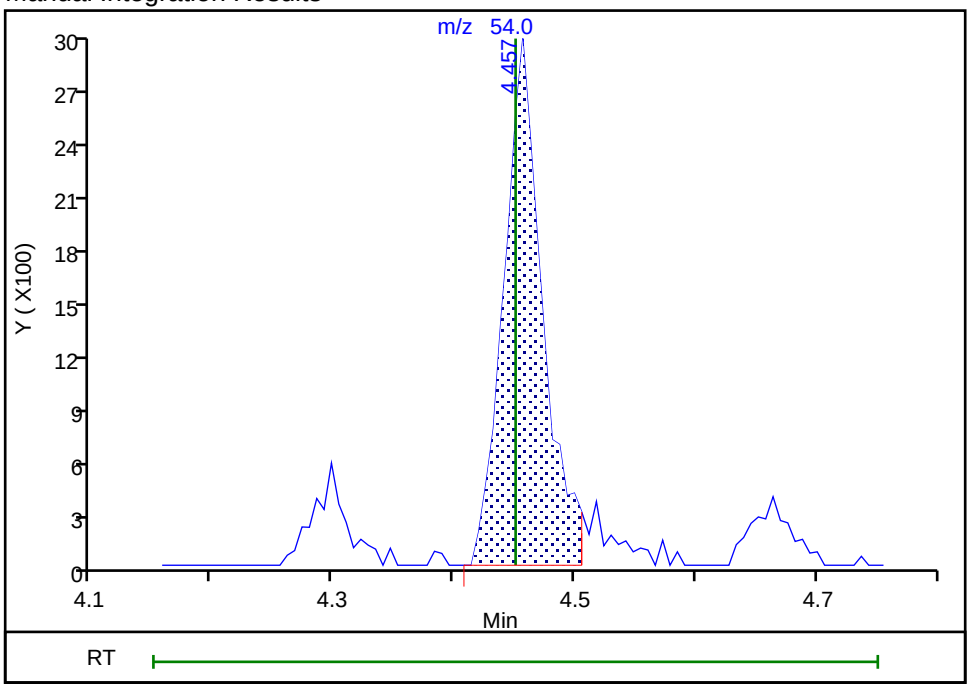
Processing Integration Results

RT: 4.46
Area: 6581
Amount: 9.416415
Amount Units: ug/l



Manual Integration Results

RT: 4.46
Area: 6581
Amount: 9.416415
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:29:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

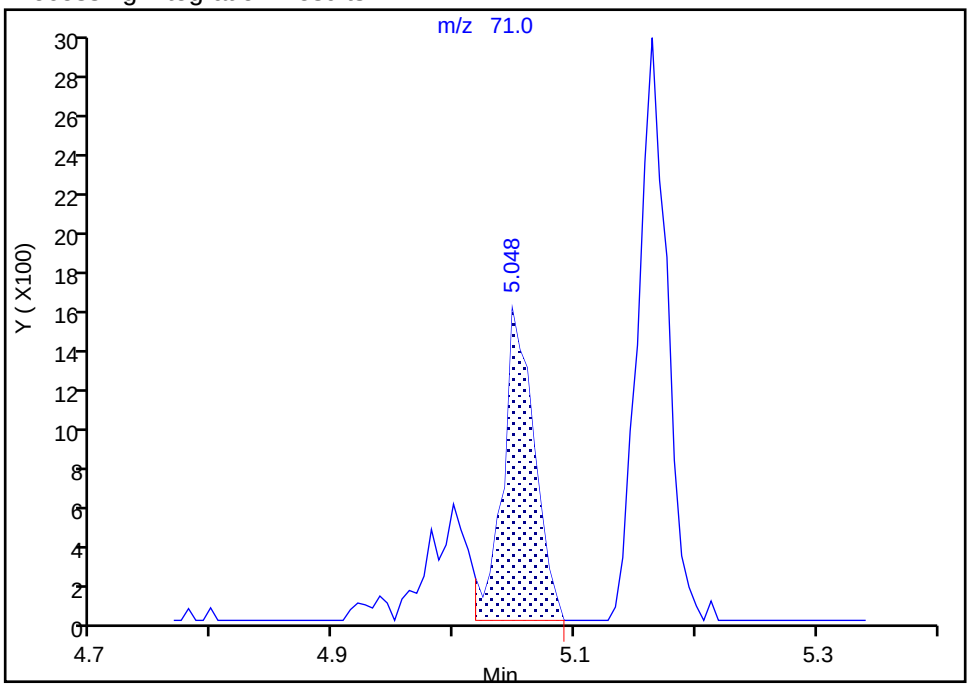
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

63 n-Heptane, CAS: 142-82-5

Signal: 1

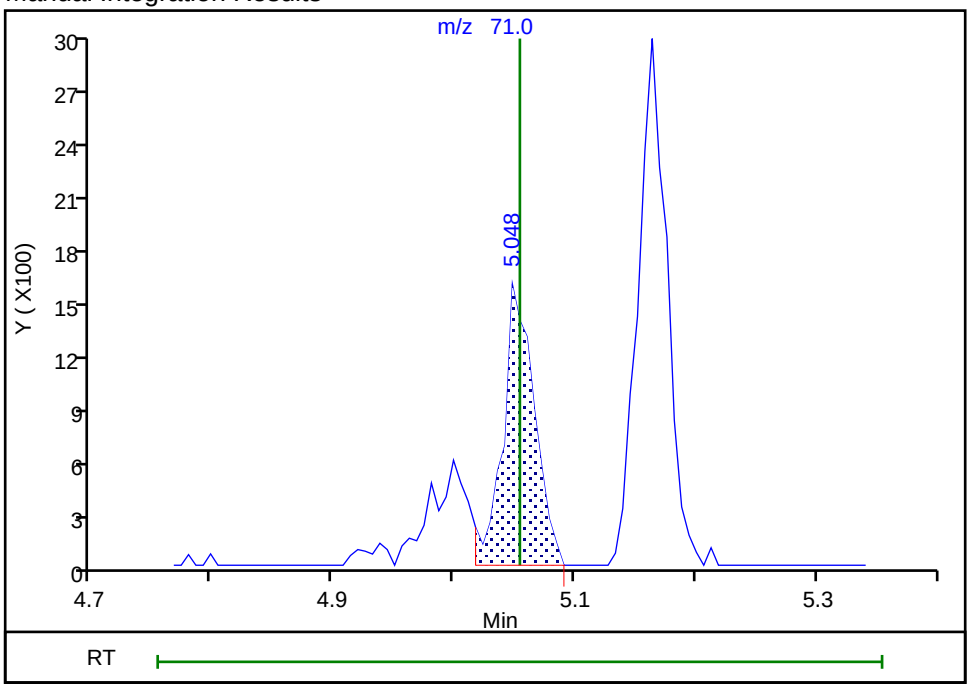
Processing Integration Results

RT: 5.05
Area: 2826
Amount: 0.907022
Amount Units: ug/l



Manual Integration Results

RT: 5.05
Area: 2826
Amount: 0.907022
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:21:18
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

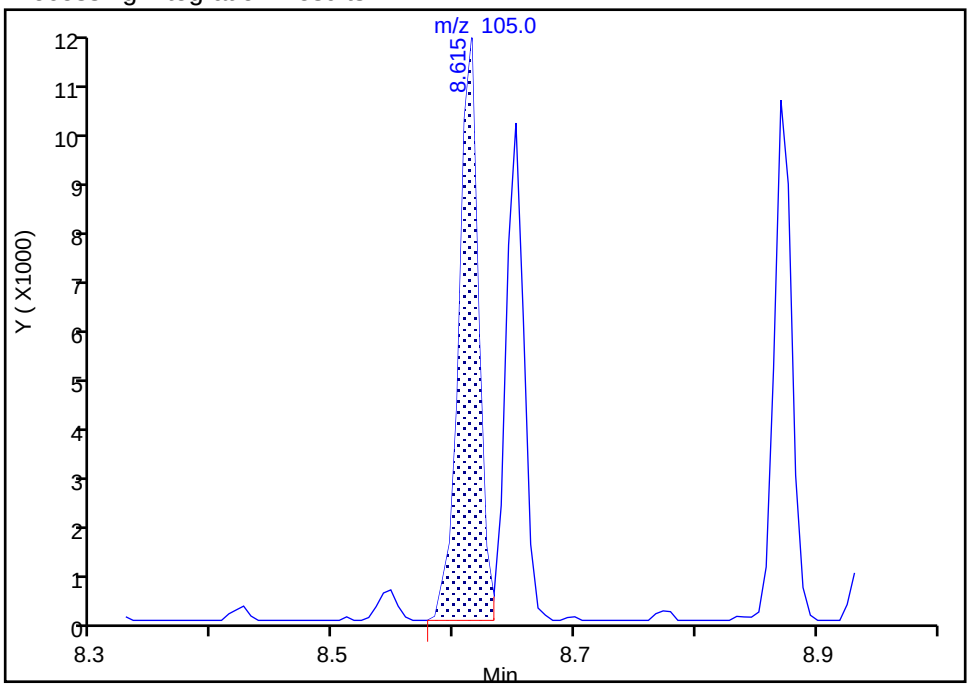
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

111 1,3,5-Trimethylbenzene, CAS: 108-67-8

Signal: 1

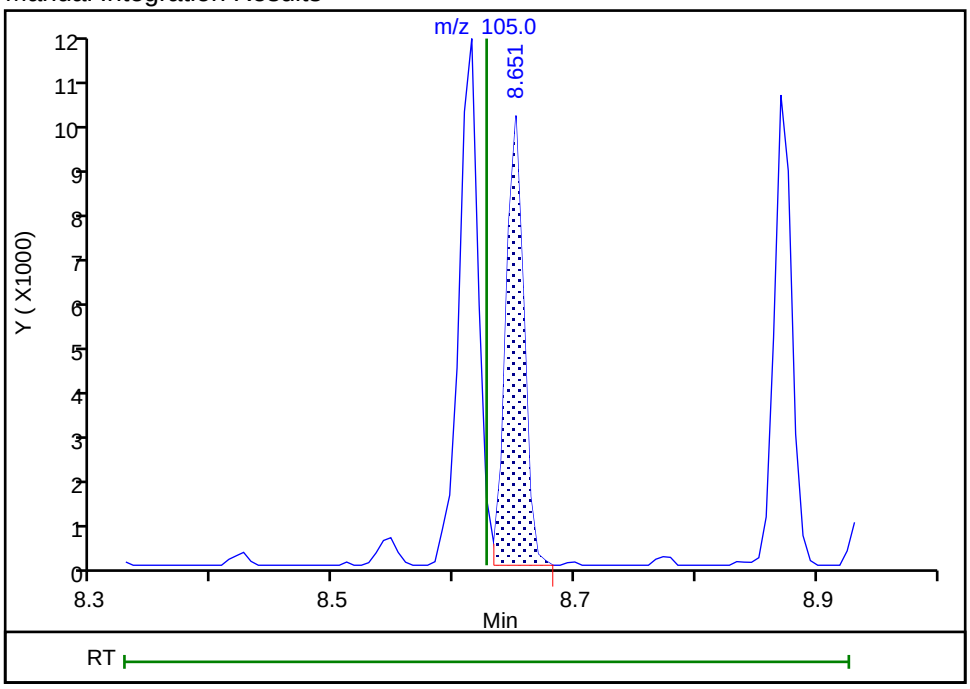
Processing Integration Results

RT: 8.61
Area: 12922
Amount: 0.914068
Amount Units: ug/l



Manual Integration Results

RT: 8.65
Area: 10058
Amount: 0.736339
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:30:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

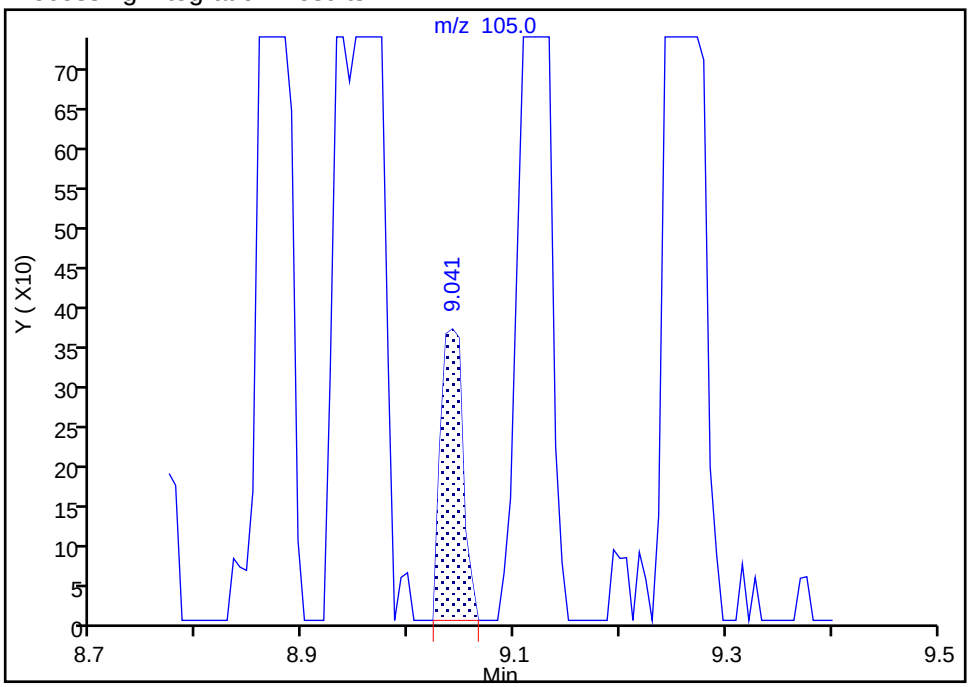
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D
Injection Date: 02-Jul-2018 11:35:30 Instrument ID: CVOAMS1
Lims ID: STD1
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 14 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

136 1,2,3-Trimethylbenzene, CAS: 526-73-8

Signal: 1

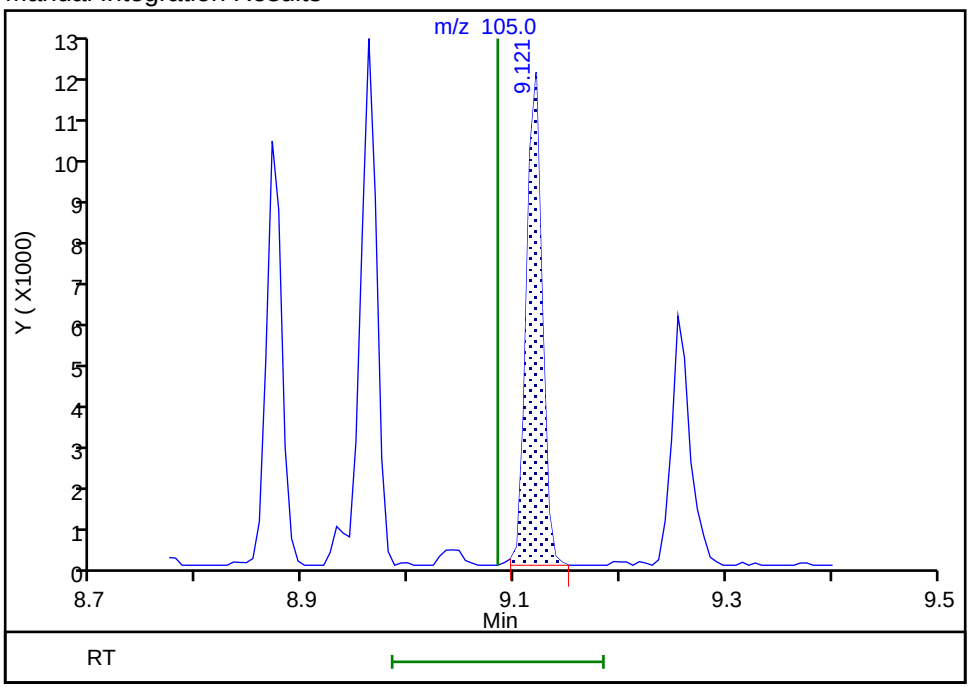
Processing Integration Results

RT: 9.04
Area: 537
Amount: 0.033115
Amount Units: ug/l



Manual Integration Results

RT: 9.12
Area: 12185
Amount: 0.784575
Amount Units: ug/l



Reviewer: delpolitov, 02-Jul-2018 13:30:20
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Chlorotrifluoroethene	0.2306 0.2568	0.1967	0.2501	0.2440	0.2679	Ave		0.2410				10.4		20.0			
Dichlorodifluoromethane	0.3764 0.5483	0.4582	0.5343	0.5260	0.5675	Ave		0.5018			0.1000	14.3		20.0			
Chloromethane	0.4231 0.4348	0.3828	0.3978	0.3922	0.4455	Ave		0.4127			0.1000	6.1		20.0			
Vinyl chloride	0.3914 0.4507	0.3796	0.4312	0.4289	0.4605	Ave		0.4237			0.1000	7.6		20.0			
Butadiene	0.2791 0.3682	0.3225	0.3443	0.3398	0.3677	Ave		0.3369				9.9		20.0			
Bromomethane	0.4141 0.3727	0.3685	0.3886	0.3828	0.3980	Ave		0.3874			0.1000	4.4		20.0			
Chloroethane	0.2015 0.2343	0.2226	0.2354	0.2357	0.2421	Ave		0.2286			0.1000	6.4		20.0			
Trichlorofluoromethane	0.5863 0.6378	0.6324	0.7143	0.7174	0.7382	Ave		0.6711			0.1000	9.0		20.0			
Dichlorofluoromethane	0.5386 0.5915	0.6281	0.6705	0.6850	0.7053	Ave		0.6365				9.9		20.0			
Pentane	1.8369 1.5228	1.2693	1.3554	1.5388	1.7505	Ave		1.5456				14.2		20.0			
Ethyl ether	0.2238 0.1878	0.1986	0.1898	0.1883	0.1853	Ave		0.1956				7.4		20.0			
Ethanol	0.0258 0.0448	0.0390	0.0455	0.0467	0.0443	Ave		0.0410				19.3		20.0			
2-Methyl-1,3-butadiene	0.2057 0.2171	0.1950	0.2176	0.2190	0.2064	Ave		0.2101				4.5		20.0			
1,2-Dichloro-1,1,2-trifluoroethane	0.3019 0.3360	0.3028	0.3427	0.3567	0.3430	Ave		0.3305				6.9		20.0			
Acrolein	1.0981 1.0459	1.0389	1.0719	1.0872	1.0307	Ave		1.0621				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,1,2-Trichloro-1,2,2-trifluoroethane	0.3308 0.3630	0.3372	0.3619	0.3794	0.3691	Ave		0.3569			0.1000	5.3		20.0			
1,1-Dichloroethene	0.3868 0.3170	0.2996	0.3192	0.3114	0.3150	Ave		0.3248			0.1000	9.6		20.0			
Acetone	1.2493 0.9161	1.1095	0.9669	0.9028	0.9833	Ave		1.0213			0.0500	13.1		20.0			
Iodomethane	0.8551 0.7497	0.7248	0.8072	0.7849	0.7705	Ave		0.7820				5.8		20.0			
Isopropyl alcohol	0.5244 0.7287	0.7432	0.7084	0.6765	0.7352	Ave		0.6861				12.1		20.0			
Carbon disulfide	1.1786 1.0613	0.9386	1.0428	1.0409	1.0583	Ave		1.0534			0.1000	7.3		20.0			
Allyl chloride	0.1827 0.1952	0.1806	0.1925	0.1920	0.1891	Ave		0.1887				3.1		20.0			
Methyl acetate	5.8101 5.3004	4.9496	4.7388	4.9080	5.2972	Ave		5.1673			0.1000	7.5		20.0			
Cyclopentene	0.6240 0.6427	0.5548	0.6749	0.6674	0.6350	Ave		0.6331				6.8		20.0			
Acetonitrile	1.6589 1.1783	1.2709	1.2187	1.1942	1.2161	Ave		1.2895				14.2		20.0			
Methylene Chloride	0.4528 0.3367	0.3639	0.3518	0.3460	0.3406	Ave		0.3653			0.1000	12.0		20.0			
2-Methyl-2-propanol	1.7077 1.3940	1.5735	1.4118	1.3838	1.4295	Ave		1.4834				8.8		20.0			
Methyl tert-butyl ether	1.0368 0.8708	0.9057	0.9414	0.9029	0.9073	Ave		0.9275			0.1000	6.3		20.0			
trans-1,2-Dichloroethene	0.3806 0.3346	0.3442	0.3512	0.3550	0.3426	Ave		0.3514			0.1000	4.6		20.0			
Acrylonitrile	0.0857 0.0848	0.0863	0.0864	0.0822	0.0852	Ave		0.0851				1.8		20.0			
Hexane	0.2252 0.2062	0.1591	0.2030	0.1954	0.2029	Ave		0.1986				11.0		20.0			
Isopropyl ether	0.8019 0.7360	0.7017	0.7376	0.7328	0.7317	Ave		0.7403				4.5		20.0			
1,1-Dichloroethane	0.5822 0.4962	0.4843	0.5213	0.5040	0.5075	Ave		0.5159			0.2000	6.7		20.0			
Vinyl acetate	2.2095 1.8781	1.8221	1.8890	1.8803	1.9556	Ave		1.9391				7.2		20.0			
2-Chloro-1,3-butadiene	0.2807 0.2848	0.2771	0.2886	0.3008	0.2858	Ave		0.2863				2.9		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tert-butyl ethyl ether	0.9732 0.8334	0.8301	0.8742	0.8591	0.8365	Ave		0.8678				6.3		20.0			
2,2-Dichloropropane	0.1653 0.1566	0.1641	0.1704	0.1672	0.1634	Ave		0.1645				2.8		20.0			
cis-1,2-Dichloroethene	0.4905 0.3836	0.4037	0.4161	0.4063	0.3971	Ave		0.4162			0.1000	9.1		20.0			
Ethyl acetate	0.6799 0.3703	0.3543	0.3972	0.3828	0.3899	Qua2	0.6247	0.3563	0.0000245						0.9900		0.9900
2-Butanone (MEK)	0.5951 0.4088	0.4774	0.4438	0.4260	0.4412	Ave		0.4654			0.0500	14.5		20.0			
Methyl acrylate	0.2052 0.2130	0.2060	0.1999	0.1933	0.2079	Ave		0.2042				3.3		20.0			
Propionitrile	1.4709 1.2271	1.1276	1.1872	1.2023	1.2331	Ave		1.2414				9.6		20.0			
Tetrahydrofuran	0.6251 0.4790	0.5530	0.5048	0.5167	0.5248	Ave		0.5339				9.5		20.0			
Chlorobromomethane	0.2645 0.2147	0.2350	0.2365	0.2290	0.2245	Ave		0.2340				7.2		20.0			
Methacrylonitrile	0.1082 0.1069	0.1038	0.1075	0.1053	0.1074	Ave		0.1065				1.6		20.0			
Chloroform	0.7176 0.5948	0.6012	0.6201	0.6248	0.6131	Ave		0.6286			0.2000	7.2		20.0			
Cyclohexane	0.4162 0.4760	0.4042	0.4859	0.4931	0.4917	Ave		0.4612			0.1000	8.7		20.0			
1,1,1-Trichloroethane	0.6241 0.5816	0.5741	0.6210	0.6129	0.6001	Ave		0.6023			0.1000	3.5		20.0			
Carbon tetrachloride	0.5413 0.5360	0.4853	0.5531	0.5503	0.5399	Ave		0.5343			0.1000	4.7		20.0			
1,1-Dichloropropene	0.4757 0.4172	0.3753	0.4374	0.4315	0.4264	Ave		0.4272				7.6		20.0			
Isobutyl alcohol	0.0689 0.0581	0.0446	0.0566	0.0524	0.0608	Ave		0.0569				14.3		20.0			
Benzene	1.6027 1.3401	1.3709	1.4541	1.4276	1.4322	Ave		1.4379			0.5000	6.3		20.0			
Isopropyl acetate	0.8181 0.8625	0.7362	0.7767	0.7736	0.8129	Ave		0.7967				5.5		20.0			
Tert-amyl methyl ether	0.3368 0.3021	0.2979	0.3158	0.3132	0.3087	Ave		0.3124				4.4		20.0			
1,2-Dichloroethane	0.5565 0.4219	0.4389	0.4272	0.4169	0.4245	Ave		0.4476			0.1000	12.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
n-Heptane	0.2452 0.2444	0.1892	0.2407	0.2383	0.2327	Ave		0.2317				9.2		20.0			
n-Butanol	0.3360 0.3375	0.2408	0.2858	0.2905	0.3260	Ave		0.3028				12.5		20.0			
Trichloroethene	0.3424 0.3609	0.3347	0.3673	0.3606	0.3641	Ave		0.3550			0.2000	3.7		20.0			
Ethyl acrylate	0.2319 0.1693	0.1584	0.1811	0.1711	0.1684	Ave		0.1800				14.7		20.0			
Methylcyclohexane	0.5304 0.5839	0.5263	0.6331	0.6206	0.6060	Ave		0.5834			0.1000	7.8		20.0			
1,2-Dichloropropane	0.2984 0.2725	0.2571	0.2627	0.2674	0.2718	Ave		0.2717			0.1000	5.3		20.0			
Methyl methacrylate	0.1436 0.1842	0.1639	0.1719	0.1690	0.1821	Ave		0.1691				8.7		20.0			
n-Propyl acetate	0.3371 0.3319	0.2894	0.2963	0.2906	0.3188	Ave		0.3107				6.9		20.0			
1,4-Dioxane	1.6427 1.3603	1.3974	1.5809	1.3814	1.5760	Ave		1.4898				8.3		20.0			
Dibromomethane	0.2678 0.2238	0.2274	0.2227	0.2174	0.2248	Ave		0.2306				8.0		20.0			
Bromodichloromethane	0.4764 0.4585	0.4127	0.4422	0.4321	0.4523	Ave		0.4457			0.2000	5.0		20.0			
2-Chloroethyl vinyl ether	0.1480 0.1564	0.1344	0.1422	0.1416	0.1484	Ave		0.1452				5.2		20.0			
2-Nitropropane	0.0736 0.0653	0.0461	0.0511	0.0485	0.0569	Ave		0.0569				18.8		20.0			
Epichlorohydrin	0.3360 0.3293	0.3068	0.3262	0.3286	0.3445	Ave		0.3286				3.8		20.0			
cis-1,3-Dichloropropene	0.6173 0.5538	0.4965	0.5299	0.5310	0.5639	Ave		0.5487			0.2000	7.5		20.0			
4-Methyl-2-pentanone (MIBK)	3.2468 2.8954	2.8918	3.0767	3.0726	3.1503	Ave		3.0556			0.0500	4.6		20.0			
Toluene	1.8989 1.5874	1.5675	1.6625	1.6525	1.6651	Ave		1.6723			0.4000	7.1		20.0			
trans-1,3-Dichloropropene	0.5617 0.5092	0.4517	0.4793	0.4826	0.5080	Ave		0.4988			0.1000	7.5		20.0			
Ethyl methacrylate	0.4379 0.3916	0.3768	0.3876	0.3854	0.4035	Ave		0.3971				5.5		20.0			
1,1,2-Trichloroethane	0.2674 0.2574	0.2447	0.2553	0.2555	0.2633	Ave		0.2573			0.1000	3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Tetrachloroethene	0.6127 0.5188	0.5028	0.5608	0.5590	0.5444	Ave		0.5497			0.2000	7.0		20.0			
1,3-Dichloropropane	0.5452 0.4659	0.4469	0.4536	0.4517	0.4683	Ave		0.4719				7.8		20.0			
2-Hexanone	2.1052 1.9027	1.8446	1.9433	1.9298	2.0055	Ave		1.9552			0.0500	4.6		20.0			
n-Butyl acetate	0.4440 0.3711	0.3788	0.3699	0.3573	0.3715	Ave		0.3821				8.1		20.0			
Dibromochloromethane	0.4003 0.4358	0.3819	0.3900	0.3971	0.4303	Ave		0.4059			0.1000	5.4		20.0			
1,2-Dibromoethane	0.3827 0.3541	0.3516	0.3623	0.3502	0.3628	Ave		0.3606			0.1000	3.3		20.0			
Chlorobenzene	1.2760 1.1373	1.1211	1.1862	1.1716	1.1769	Ave		1.1782			0.5000	4.6		20.0			
Ethylbenzene	0.6871 0.6038	0.6001	0.6509	0.6436	0.6362	Ave		0.6370			0.1000	5.1		20.0			
1,1,1,2-Tetrachloroethane	0.5322 0.4745	0.4594	0.4857	0.4867	0.4966	Ave		0.4892				5.0		20.0			
m-Xylene & p-Xylene	0.8587 0.7413	0.7371	0.7869	0.7905	0.7831	Ave		0.7829			0.1000	5.6		20.0			
n-Butyl acrylate	0.2432 0.2289	0.2326	0.2405	0.2378	0.2385	Ave		0.2369				2.2		20.0			
o-Xylene	0.9008 0.7696	0.7879	0.8248	0.8293	0.8197	Ave		0.8220			0.3000	5.5		20.0			
Styrene	1.2096 1.2406	1.2023	1.2941	1.2971	1.3014	Ave		1.2575			0.3000	3.6		20.0			
Amyl acetate (mixed isomers)	0.6899 0.7447	0.6903	0.6807	0.7042	0.7374	Ave		0.7079				3.8		20.0			
Bromoform	0.3000 0.2917	0.2547	0.2580	0.2586	0.2834	Ave		0.2744			0.1000	7.2		20.0			
Isopropylbenzene	2.1553 2.0303	1.9760	2.2243	2.2254	2.1859	Ave		2.1329			0.1000	4.9		20.0			
Bromobenzene	1.0419 0.9589	0.9245	0.9616	0.9706	0.9929	Ave		0.9751				4.1		20.0			
1,1,2,2-Tetrachloroethane	0.7554 0.6963	0.6327	0.6877	0.6775	0.7151	Ave		0.6941			0.3000	5.9		20.0			
N-Propylbenzene	3.5407 3.5670	3.3595	3.6474	3.7685	3.7292	Ave		3.6021				4.1		20.0			
1,2,3-Trichloropropane	0.2081 0.2170	0.2277	0.2105	0.2187	0.2240	Ave		0.2177				3.5		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
trans-1,4-Dichloro-2-butene	0.1897 0.1624	0.1427	0.1558	0.1533	0.1640	Ave		0.1613				9.8		20.0			
2-Chlorotoluene	2.5980 2.4982	2.3185	2.4953	2.5839	2.5670	Ave		2.5101				4.1		20.0			
4-Ethyltoluene	3.3807 3.1756	3.0726	3.3124	3.4184	3.3009	Ave		3.2768				4.0		20.0			
1,3,5-Trimethylbenzene	2.7404 2.9394	2.5760	2.9056	2.9968	3.0613	Ave		2.8699				6.3		20.0			
4-Chlorotoluene	2.0696 2.1461	1.9264	2.0888	2.1511	2.1913	Ave		2.0956				4.5		20.0			
Butyl Methacrylate	0.7661 0.8539	0.7483	0.8064	0.8295	0.8649	Ave		0.8115				5.8		20.0			
tert-Butylbenzene	2.3028 2.5766	2.0843	2.4312	2.5951	2.6497	Ave		2.4400				8.8		20.0			
1,2,4-Trimethylbenzene	2.9255 3.0019	2.7827	3.0278	3.1040	3.1400	Ave		2.9970				4.3		20.0			
sec-Butylbenzene	3.5737 3.7242	3.1956	3.7296	3.9103	3.9248	Ave		3.6764				7.3		20.0			
4-Isopropyltoluene	3.4155 3.4130	3.0346	3.4917	3.6283	3.6213	Ave		3.4341				6.3		20.0			
1,3-Dichlorobenzene	2.0296 1.7236	1.7577	1.8869	1.8838	1.8311	Ave		1.8521			0.6000	5.9		20.0			
1,4-Dichlorobenzene	2.1226 1.7318	1.8354	1.8599	1.8622	1.8325	Ave		1.8741			0.5000	7.0		20.0			
Benzyl chloride	1.4558 1.4598	1.4279	1.4559	1.4510	1.5021	Ave		1.4588				1.7		20.0			
Indan	3.2506 3.1065	3.0707	3.2439	3.2908	3.2616	Ave		3.2040				2.9		20.0			
p-Diethylbenzene	1.9731 1.8593	1.8931	2.1311	2.1148	1.9530	Ave		1.9874				5.7		20.0			
n-Butylbenzene	1.5237 1.5860	1.4617	1.6562	1.7008	1.6761	Ave		1.6008				5.9		20.0			
1,2-Dichlorobenzene	1.9968 1.7888	1.7862	1.8859	1.9017	1.8867	Ave		1.8743			0.4000	4.2		20.0			
1,2,4,5-Tetramethylbenzene	3.3549 3.3554	3.1987	3.4869	3.6409	3.5939	Ave		3.4384				4.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1682 0.1425	0.1403	0.1317	0.1313	0.1440	Ave		0.1430			0.0500	9.4		20.0			
1,3,5-Trichlorobenzene	1.8160 1.5629	1.7148	1.7642	1.7545	1.6665	Ave		1.7132				5.2		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trichlorobenzene	1.7451 1.4720	1.6259	1.6639	1.6663	1.6059	Ave		1.6298			0.2000	5.6		20.0			
Hexachlorobutadiene	0.7920 0.7976	0.7046	0.8139	0.8438	0.8333	Ave		0.7975				6.2		20.0			
Naphthalene	3.6044 3.1733	3.3595	3.4411	3.4195	3.4048	Ave		3.4004				4.1		20.0			
1,2,3-Trichlorobenzene	1.6823 1.4362	1.5316	1.6274	1.6007	1.5582	Ave		1.5727				5.4		20.0			
Dibromofluoromethane (Surr)	0.3539 0.3345	0.3588	0.3509	0.3333	0.3329	Ave		0.3441				3.4		20.0			
1,2-Dichloroethane-d4 (Surr)	0.3114 0.3550	0.3059	0.3067	0.3097	0.3294	Ave		0.3197				6.0		20.0			
Toluene-d8 (Surr)	1.3560 1.3187	1.3122	1.3247	1.3282	1.3282	Ave		1.3280				1.1		20.0			
4-Bromofluorobenzene	0.5506 0.5180	0.5434	0.5535	0.5300	0.5269	Ave		0.5371				2.6		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 460-533800/3	K86118.D
Level 2	STD5 460-533800/4	K86119.D
Level 3	STD20 460-533800/5	K86120.D
Level 4	STD50 460-533800/6	K86121.D
Level 5	STD200 460-533800/7	K86122.D
Level 6	STD500 460-533800/8	K86123.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Chlorotrifluoroethene	FB	Ave	2261 1581916	10049	52418	130419	607536	1.00 500	5.00	20.0	50.0	200
Dichlorodifluoromethane	FB	Ave	3690 3377692	23410	111998	281125	1286845	1.00 500	5.00	20.0	50.0	200
Chloromethane	FB	Ave	4148 2678351	19558	83388	209589	1010119	1.00 500	5.00	20.0	50.0	200
Vinyl chloride	FB	Ave	3837 2776562	19396	90381	229225	1044128	1.00 500	5.00	20.0	50.0	200
Butadiene	FB	Ave	2736 2267895	16478	72182	181610	833795	1.00 500	5.00	20.0	50.0	200
Bromomethane	FB	Ave	4060 2295633	18827	81457	204558	902516	1.00 500	5.00	20.0	50.0	200
Chloroethane	FB	Ave	1976 1443523	11373	49348	125970	549048	1.00 500	5.00	20.0	50.0	200
Trichlorofluoromethane	FB	Ave	5748 3928777	32312	149729	383407	1674031	1.00 500	5.00	20.0	50.0	200
Dichlorofluoromethane	FB	Ave	5281 3643782	32091	140559	366071	1599349	1.00 500	5.00	20.0	50.0	200
Pentane	TBAd9	Ave	1055 544545	4094	17093	46935	227930	2.00 1000	10.0	40.0	100	400
Ethyl ether	FB	Ave	2194 1156540	10146	39782	100630	420279	1.00 500	5.00	20.0	50.0	200
Ethanol	TBAd9	Ave	296 320534	2517	11486	28493	115315	40.0 20000	200	800	2000	8000
2-Methyl-1,3-butadiene	FB	Ave	2017 1337127	9964	45609	117038	468066	1.00 500	5.00	20.0	50.0	200
1,2-Dichloro-1,1,2-trifluoroethane	FB	Ave	2960 2069978	15471	71847	190654	777768	1.00 500	5.00	20.0	50.0	200
Acrolein	TBAd9	Ave	31536 224402	67018	101383	132647	167756	100 600	200	300	400	500
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	3243 2235757	17230	75863	202738	837057	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,1-Dichloroethene	FB	Ave	3792 1952859	15305	66915	166446	714314	1.00 500	5.00	20.0	50.0	200
Acetone	BUT	Ave	4442 2274136	21583	75553	176068	842718	5.00 2500	25.0	100	250	1000
Iodomethane	FB	Ave	8384 4617815	37031	169207	419457	1747261	1.00 500	5.00	20.0	50.0	200
Isopropyl alcohol	TBAd9	Ave	1506 1302896	11986	44664	103170	478640	10.0 5000	50.0	200	500	2000
Carbon disulfide	FB	Ave	11556 6537358	47954	218590	556272	2399859	1.00 500	5.00	20.0	50.0	200
Allyl chloride	FB	Ave	1791 1202538	9229	40344	102616	428768	1.00 500	5.00	20.0	50.0	200
Methyl acetate	TBAd9	Ave	3337 1895329	15964	59759	149700	689720	2.00 1000	10.0	40.0	100	400
Cyclopentene	FB	Ave	6118 3958854	28347	141480	356651	1439985	1.00 500	5.00	20.0	50.0	200
Acetonitrile	TBAd9	Ave	4764 2106672	20495	76843	182117	791685	10.0 5000	50.0	200	500	2000
Methylene Chloride	FB	Ave	4439 2074080	18594	73739	184920	772369	1.00 500	5.00	20.0	50.0	200
2-Methyl-2-propanol	TBAd9	Ave	4904 2492265	25375	89019	211033	930632	10.0 5000	50.0	200	500	2000
Methyl tert-butyl ether	FB	Ave	10165 5364126	46271	197329	482529	2057279	1.00 500	5.00	20.0	50.0	200
trans-1,2-Dichloroethene	FB	Ave	3732 2061170	17585	73612	189715	776878	1.00 500	5.00	20.0	50.0	200
Acrylonitrile	FB	Ave	8398 5224689	44073	181194	439324	1931080	10.0 5000	50.0	200	500	2000
Hexane	FB	Ave	2208 1270133	8126	42552	104407	460117	1.00 500	5.00	20.0	50.0	200
Isopropyl ether	FB	Ave	7862 4533607	35852	154624	391625	1659263	1.00 500	5.00	20.0	50.0	200
1,1-Dichloroethane	FB	Ave	5708 3056763	24741	109284	269363	1150773	1.00 500	5.00	20.0	50.0	200
Vinyl acetate	TBAd9	Ave	1269 671562	5877	23821	57351	254633	2.00 1000	10.0	40.0	100	400
2-Chloro-1,3-butadiene	FB	Ave	2752 1754438	14158	60491	160745	648116	1.00 500	5.00	20.0	50.0	200
Tert-butyl ethyl ether	FB	Ave	9542 5133710	42410	183248	459151	1896772	1.00 500	5.00	20.0	50.0	200
2,2-Dichloropropane	FB	Ave	1621 964832	8382	35715	89356	370450	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
cis-1,2-Dichloroethene	FB	Ave	4809 2362856	20626	87227	217144	900467	1.00 500	5.00	20.0	50.0	200
Ethyl acetate	BUT	Qua2	967 367753	2757	12416	29864	133642	2.00 1000	10.0	40.0	100	400
2-Butanone (MEK)	BUT	Ave	2116 1014737	9286	34679	83071	378071	5.00 2500	25.0	100	250	1000
Methyl acrylate	FB	Ave	2012 1312106	10523	41899	103291	471496	1.00 500	5.00	20.0	50.0	200
Propionitrile	TBAd9	Ave	4224 2193917	18185	74854	183361	802779	10.0 5000	50.0	200	500	2000
Tetrahydrofuran	BUT	Ave	889 475618	4303	15777	40304	179889	2.00 1000	10.0	40.0	100	400
Chlorobromomethane	FB	Ave	2593 1322454	12006	49578	122405	509139	1.00 500	5.00	20.0	50.0	200
Methacrylonitrile	FB	Ave	10612 6585300	53044	225394	562513	2435931	10.0 5000	50.0	200	500	2000
Chloroform	FB	Ave	7036 3664152	30715	129987	333917	1390169	1.00 500	5.00	20.0	50.0	200
Cyclohexane	FB	Ave	4081 2931920	20650	101855	263540	1114906	1.00 500	5.00	20.0	50.0	200
1,1,1-Trichloroethane	FB	Ave	6119 3582611	29332	130186	327534	1360855	1.00 500	5.00	20.0	50.0	200
Carbon tetrachloride	FB	Ave	5307 3301487	24796	115933	294074	1224185	1.00 500	5.00	20.0	50.0	200
1,1-Dichloropropene	FB	Ave	4664 2569628	19172	91697	230608	966910	1.00 500	5.00	20.0	50.0	200
Isobutyl alcohol	TBAd9	Ave	495 259572	1798	8917	19987	98909	25.0 12500	125	500	1250	5000
Benzene	CBNZd5	Ave	13254 7522135	59717	263486	665118	2855529	1.00 500	5.00	20.0	50.0	200
Isopropyl acetate	FB	Ave	8021 5312631	37612	162815	413420	1843436	1.00 500	5.00	20.0	50.0	200
Tert-amyl methyl ether	FB	Ave	3302 1860834	15219	66196	167390	700029	1.00 500	5.00	20.0	50.0	200
1,2-Dichloroethane	FB	Ave	5456 2598734	22423	89552	222791	962696	1.00 500	5.00	20.0	50.0	200
n-Heptane	FB	Ave	2404 1505522	9667	50453	127334	527709	1.00 500	5.00	20.0	50.0	200
n-Butanol	TBAd9	Ave	2412 1508710	9707	45046	110752	530638	25.0 12500	125	500	1250	5000
Trichloroethene	FB	Ave	3357 2223117	17099	76997	192736	825738	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Ethyl acrylate	FB	Ave	2274 1042735	8095	37954	91463	381762	1.00 500	5.00	20.0	50.0	200
Methylcyclohexane	FB	Ave	5200 3596894	26889	132704	331651	1374050	1.00 500	5.00	20.0	50.0	200
1,2-Dichloropropane	FB	Ave	2926 1678479	13133	55073	142919	616377	1.00 500	5.00	20.0	50.0	200
Methyl methacrylate	FB	Ave	2815 2269442	16744	72070	180614	825729	2.00 1000	10.0	40.0	100	400
n-Propyl acetate	FB	Ave	3305 2044198	14785	62119	155324	722807	1.00 500	5.00	20.0	50.0	200
1,4-Dioxane	DXE	Ave	832 469341	4033	18123	41357	181733	20.0 10000	100	400	1000	4000
Dibromomethane	FB	Ave	2626 1378497	11618	46676	116161	509861	1.00 500	5.00	20.0	50.0	200
Bromodichloromethane	FB	Ave	4671 2824018	21083	92702	230925	1025706	1.00 500	5.00	20.0	50.0	200
2-Chloroethyl vinyl ether	FB	Ave	1451 963542	6869	29805	75700	336535	1.00 500	5.00	20.0	50.0	200
2-Nitropropane	FB	Ave	1443 804088	4711	21432	51826	257855	2.00 1000	10.0	40.0	100	400
Epichlorohydrin	BUT	Ave	4778 3270235	23871	101973	256352	1180824	20.0 10000	100	400	1000	4000
cis-1,3-Dichloropropene	CBNZ d5	Ave	5105 3108588	21627	96016	247393	1124267	1.00 500	5.00	20.0	50.0	200
4-Methyl-2-pentanone (MIBK)	BUT	Ave	11544 7187745	56254	240422	599225	2699838	5.00 2500	25.0	100	250	1000
Toluene	CBNZ d5	Ave	15703 8910383	68282	301255	769909	3319799	1.00 500	5.00	20.0	50.0	200
trans-1,3-Dichloropropene	CBNZ d5	Ave	4645 2858319	19676	86857	224848	1012794	1.00 500	5.00	20.0	50.0	200
Ethyl methacrylate	CBNZ d5	Ave	3621 2198043	16415	70228	179539	804595	1.00 500	5.00	20.0	50.0	200
1,1,2-Trichloroethane	CBNZ d5	Ave	2211 1444634	10661	46261	119023	524975	1.00 500	5.00	20.0	50.0	200
Tetrachloroethene	CBNZ d5	Ave	5067 2911873	21904	101618	260413	1085505	1.00 500	5.00	20.0	50.0	200
1,3-Dichloropropane	CBNZ d5	Ave	4509 2615165	19466	82201	210429	933709	1.00 500	5.00	20.0	50.0	200
2-Hexanone	BUT	Ave	7485 4723504	35883	151851	376353	1718735	5.00 2500	25.0	100	250	1000
n-Butyl acetate	CBNZ d5	Ave	3672 2083090	16499	67025	166473	740660	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Dibromochloromethane	CBNZ d5	Ave	3310 2446176	16637	70673	185004	857879	1.00 500	5.00	20.0	50.0	200
1,2-Dibromoethane	CBNZ d5	Ave	3165 1987867	15316	65649	163141	723392	1.00 500	5.00	20.0	50.0	200
Chlorobenzene	CBNZ d5	Ave	10552 6383930	48838	214946	545861	2346554	1.00 500	5.00	20.0	50.0	200
Ethylbenzene	CBNZ d5	Ave	5682 3389025	26141	117941	299865	1268542	1.00 500	5.00	20.0	50.0	200
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	4401 2663401	20011	88009	226767	990217	1.00 500	5.00	20.0	50.0	200
m-Xylene & p-Xylene	CBNZ d5	Ave	7101 4161018	32110	142588	368302	1561340	1.00 500	5.00	20.0	50.0	200
n-Butyl acrylate	CBNZ d5	Ave	2011 1285099	10132	43582	110767	475456	1.00 500	5.00	20.0	50.0	200
o-Xylene	CBNZ d5	Ave	7449 4319691	34320	149451	386379	1634374	1.00 500	5.00	20.0	50.0	200
Styrene	CBNZ d5	Ave	10003 6963830	52373	234499	604297	2594673	1.00 500	5.00	20.0	50.0	200
Amyl acetate (mixed isomers)	DCBd 4	Ave	3790 2524491	19888	80880	207413	914505	1.00 500	5.00	20.0	50.0	200
Bromoform	CBNZ d5	Ave	2481 1637292	11095	46754	120501	565141	1.00 500	5.00	20.0	50.0	200
Isopropylbenzene	CBNZ d5	Ave	17824 11396490	86076	403055	1036812	4358252	1.00 500	5.00	20.0	50.0	200
Bromobenzene	DCBd 4	Ave	5724 3250676	26635	114264	285875	1231290	1.00 500	5.00	20.0	50.0	200
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	4150 2360354	18228	81714	199535	886776	1.00 500	5.00	20.0	50.0	200
N-Propylbenzene	DCBd 4	Ave	19452 12091924	96790	433409	1109900	4624829	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichloropropane	DCBd 4	Ave	1143 735701	6561	25010	64414	277760	1.00 500	5.00	20.0	50.0	200
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1042 550467	4112	18515	45136	203418	1.00 500	5.00	20.0	50.0	200
2-Chlorotoluene	DCBd 4	Ave	14273 8468683	66796	296512	761014	3183461	1.00 500	5.00	20.0	50.0	200
4-Ethyltoluene	DCBd 4	Ave	18573 10765115	88524	393601	1006783	4093676	1.00 500	5.00	20.0	50.0	200
1,3,5-Trimethylbenzene	DCBd 4	Ave	15055 9964542	74216	345257	882629	3796493	1.00 500	5.00	20.0	50.0	200
4-Chlorotoluene	DCBd 4	Ave	11370 7275181	55500	248210	633538	2717604	1.00 500	5.00	20.0	50.0	200

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Butyl Methacrylate	DCBd 4	Ave	4209 2894862	21560	95827	244299	1072625	1.00 500	5.00	20.0	50.0	200
tert-Butylbenzene	DCBd 4	Ave	12651 8734687	60051	288890	764303	3286057	1.00 500	5.00	20.0	50.0	200
1,2,4-Trimethylbenzene	DCBd 4	Ave	16072 10176278	80171	359787	914193	3894089	1.00 500	5.00	20.0	50.0	200
sec-Butylbenzene	DCBd 4	Ave	19633 12624955	92066	443178	1151652	4867383	1.00 500	5.00	20.0	50.0	200
4-Isopropyltoluene	DCBd 4	Ave	18764 11570143	87428	414905	1068622	4491019	1.00 500	5.00	20.0	50.0	200
1,3-Dichlorobenzene	DCBd 4	Ave	11150 5842995	50640	224210	554819	2270831	1.00 500	5.00	20.0	50.0	200
1,4-Dichlorobenzene	DCBd 4	Ave	11661 5870913	52879	221000	548468	2272564	1.00 500	5.00	20.0	50.0	200
Benzyl chloride	DCBd 4	Ave	7998 4948561	41138	173003	427347	1862889	1.00 500	5.00	20.0	50.0	200
Indan	DCBd 4	Ave	17858 10530920	88467	385458	969203	4044900	1.00 500	5.00	20.0	50.0	200
p-Diethylbenzene	DCBd 4	Ave	10840 6303088	54541	253230	622855	2422045	1.00 500	5.00	20.0	50.0	200
n-Butylbenzene	DCBd 4	Ave	8371 5376664	42111	196798	500935	2078634	1.00 500	5.00	20.0	50.0	200
1,2-Dichlorobenzene	DCBd 4	Ave	10970 6064086	51461	224089	560102	2339789	1.00 500	5.00	20.0	50.0	200
1,2,4,5-Tetramethylbenzene	DCBd 4	Ave	18431 11374803	92156	414331	1072321	4456946	1.00 500	5.00	20.0	50.0	200
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	924 483065	4043	15652	38675	178584	1.00 500	5.00	20.0	50.0	200
1,3,5-Trichlorobenzene	DCBd 4	Ave	9977 5298224	49404	209633	516732	2066725	1.00 500	5.00	20.0	50.0	200
1,2,4-Trichlorobenzene	DCBd 4	Ave	9587 4989907	46843	197711	490747	1991589	1.00 500	5.00	20.0	50.0	200
Hexachlorobutadiene	DCBd 4	Ave	4351 2703860	20299	96713	248504	1033478	1.00 500	5.00	20.0	50.0	200
Naphthalene	DCBd 4	Ave	19802 10757429	96788	408897	1007107	4222543	1.00 500	5.00	20.0	50.0	200
1,2,3-Trichlorobenzene	DCBd 4	Ave	9242 4868780	44125	193378	471447	1932351	1.00 500	5.00	20.0	50.0	200
Dibromofluoromethane (Surr)	FB	Ave	173508 206030	183321	183890	178148	188726	50.0 50.0	50.0	50.0	50.0	50.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	152658 218675	156287	160739	165511	186761	50.0 50.0	50.0	50.0	50.0	50.0

FORM VI
GC/MS VOA BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-159550-1 Analy Batch No.: 533800

SDG No.:

Instrument ID: CVOAMS9 GC Column: Rtx-624 ID: 0.25(mm) Heated Purge: (Y/N) Y

Calibration Start Date: 07/06/2018 01:46 Calibration End Date: 07/06/2018 03:48 Calibration ID: 69836

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Toluene-d8 (Surr)	CBNZ d5	Ave	560673 740216	571588	600096	618788	662068	50.0 50.0	50.0	50.0	50.0	50.0
4-Bromofluorobenzene	CBNZ d5	Ave	227666 290767	236717	250725	246914	262659	50.0 50.0	50.0	50.0	50.0	50.0

Curve Type Legend:

Ave = Average ISTD
Qua2 = Quadratic 1/conc^2 ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Lims ID: STD1
Client ID:
Sample Type: IC Calib Level: 1
Inject. Date: 06-Jul-2018 01:46:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD1
Misc. Info.: 460-0074947-003
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:17 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:54:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.578	1.608	-0.030	1	2261	1.00	0.9568	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	76	3690	1.00	0.7500	a
3 Chloromethane	50	1.809	1.822	-0.013	96	4148	1.00	1.03	
4 Vinyl chloride	62	1.907	1.913	-0.006	93	3837	1.00	0.9236	
5 Butadiene	54	1.901	1.919	-0.018	58	2736	1.00	0.8282	
6 Bromomethane	94	2.206	2.218	-0.012	82	4060	1.00	1.07	
7 Chloroethane	64	2.273	2.273	0.000	78	1976	1.00	0.8815	
8 Trichlorofluoromethane	101	2.468	2.462	0.006	60	5748	1.00	0.8736	a
9 Dichlorofluoromethane	67	2.449	2.462	-0.013	71	5281	1.00	0.8462	
10 Pentane	72	2.498	2.504	-0.006	95	1055	2.00	2.38	
11 Ethyl ether	59	2.699	2.699	0.000	92	2194	1.00	1.14	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	2017	1.00	0.9790	
14 1,2-Dichloro-1,1,2-trifluo	117	2.730	2.748	-0.018	76	2960	1.00	0.9134	
12 Ethanol	46	2.742	2.754	-0.012	22	296	40.0	25.1	Ma
15 Acrolein	56	2.882	2.882	0.000	97	31536	100.0	103.4	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	82	3792	1.00	1.19	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	31	3243	1.00	0.9268	a
18 Acetone	43	3.004	3.004	0.000	63	4442	5.00	6.12	
19 Iodomethane	142	3.077	3.083	-0.006	96	8384	1.00	1.09	
22 Isopropyl alcohol	45	3.096	3.108	-0.012	29	1506	10.0	7.64	a
20 Carbon disulfide	76	3.120	3.120	0.000	98	11556	1.00	1.12	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	80	1791	1.00	0.9681	
23 Methyl acetate	43	3.260	3.254	0.006	88	3337	2.00	2.25	a
24 Cyclopentene	67	3.266	3.266	0.000	84	6118	1.00	0.9856	
29 Acetonitrile	41	3.303	3.321	-0.018	20	4764	10.0	12.9	a
26 Methylene Chloride	84	3.376	3.370	0.006	32	4439	1.00	1.24	
* 25 TBA-d9 (IS)	65	3.358	3.376	-0.018	0	287173	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.443	3.437	0.006	91	4904	10.0	11.5	
28 Methyl tert-butyl ether	73	3.516	3.529	-0.012	94	10165	1.00	1.12	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	85	3732	1.00	1.08	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.638	-0.012	96	8398	10.0	10.1	
32 Hexane	43	3.718	3.717	0.001	86	2208	1.00	1.13	
33 Isopropyl ether	45	3.925	3.925	0.000	84	7862	1.00	1.08	
35 Vinyl acetate	86	3.967	3.974	-0.007	98	1269	2.00	2.28	
34 1,1-Dichloroethane	63	3.961	3.974	-0.013	84	5708	1.00	1.13	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	90	2752	1.00	0.9804	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	88	9542	1.00	1.12	
* 38 2-Butanone-d5	46	4.443	4.449	-0.006	0	177776	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	48	1621	1.00	1.01	a
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	81	4809	1.00	1.18	
42 2-Butanone (MEK)	72	4.498	4.504	-0.006	97	2116	5.00	6.39	
41 Ethyl acetate	70	4.486	4.504	-0.018	84	967	2.00	2.06	
44 Methyl acrylate	55	4.565	4.559	0.006	53	2012	1.00	1.00	
43 Propionitrile	54	4.644	4.644	0.000	96	4224	10.0	11.8	
45 Tetrahydrofuran	72	4.717	4.723	-0.006	53	889	2.00	2.34	a
46 Chlorobromomethane	128	4.736	4.729	0.007	75	2593	1.00	1.13	
47 Methacrylonitrile	67	4.742	4.748	-0.006	87	10612	10.0	10.2	
48 Chloroform	83	4.778	4.778	0.000	97	7036	1.00	1.14	
49 Cyclohexane	84	4.919	4.925	-0.006	87	4081	1.00	0.9025	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	6119	1.00	1.04	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	173508	50.0	51.4	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	96	5307	1.00	1.01	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	93	4664	1.00	1.11	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	27	495	25.0	30.3	Ma
54 Benzene	78	5.284	5.284	0.000	45	13254	1.00	1.11	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	152658	50.0	48.7	
57 Isopropyl acetate	43	5.327	5.321	0.006	79	8021	1.00	1.03	a
58 Tert-amyl methyl ether	87	5.339	5.327	0.012	87	3302	1.00	1.08	a
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	93	5456	1.00	1.24	
60 n-Heptane	57	5.418	5.424	-0.006	84	2404	1.00	1.06	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	490226	50.0	50.0	
62 n-Butanol	56	5.870	5.857	0.013	40	2412	25.0	27.7	a
63 Trichloroethene	95	5.931	5.930	0.000	97	3357	1.00	0.9645	
65 Methylcyclohexane	83	6.052	6.058	-0.006	89	5200	1.00	0.9092	
64 Ethyl acrylate	56	6.059	6.065	-0.006	95	2274	1.00	1.29	a
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	72	2926	1.00	1.10	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	25324	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	81	2815	2.00	1.70	
70 n-Propyl acetate	43	6.327	6.327	0.000	52	3305	1.00	1.09	
69 1,4-Dioxane	88	6.333	6.327	0.006	30	832	20.0	22.1	M
71 Dibromomethane	93	6.351	6.351	0.000	89	2626	1.00	1.16	
72 Dichlorobromomethane	83	6.497	6.504	-0.007	96	4671	1.00	1.07	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	72	1451	1.00	1.02	
74 2-Nitropropane	41	6.839	6.833	0.006	81	1443	2.00	2.59	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	4778	20.0	20.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	5105	1.00	1.12	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	11544	5.00	5.31	
$ 78 Toluene-d8 (Surr)	98	7.247	7.253	-0.006	99	560673	50.0	51.1	
79 Toluene	91	7.327	7.333	-0.006	90	15703	1.00	1.14	
80 trans-1,3-Dichloropropene	75	7.674	7.680	-0.006	94	4645	1.00	1.13	
81 Ethyl methacrylate	69	7.692	7.692	0.000	81	3621	1.00	1.10	
82 1,1,2-Trichloroethane	83	7.906	7.894	0.012	90	2211	1.00	1.04	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.948	7.954	-0.006	94	5067	1.00	1.11	
84 1,3-Dichloropropane	76	8.107	8.113	-0.006	91	4509	1.00	1.16	
85 2-Hexanone	43	8.156	8.156	0.000	95	7485	5.00	5.38	
86 n-Butyl acetate	43	8.265	8.265	0.000	95	3672	1.00	1.16	
87 Chlorodibromomethane	129	8.351	8.345	0.006	95	3310	1.00	0.9861	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	3165	1.00	1.06	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	82	413487	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	94	10552	1.00	1.08	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	5682	1.00	1.08	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	4401	1.00	1.09	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	7101	1.00	1.10	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	2011	1.00	1.03	
95 o-Xylene	106	9.802	9.802	0.000	93	7449	1.00	1.10	
96 Styrene	104	9.832	9.832	0.000	95	10003	1.00	0.9619	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	3790	1.00	0.9746	
98 Bromoform	173	10.070	10.070	0.000	92	2481	1.00	1.09	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	17824	1.00	1.01	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	95	227666	50.0	51.3	
101 Bromobenzene	156	10.545	10.545	0.000	82	5724	1.00	1.07	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	95	4150	1.00	1.09	
103 N-Propylbenzene	91	10.613	10.612	0.001	99	19452	1.00	0.9830	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	93	1143	1.00	0.9559	
105 trans-1,4-Dichloro-2-buten	53	10.661	10.649	0.012	63	1042	1.00	1.18	
106 2-Chlorotoluene	91	10.728	10.728	0.000	93	14273	1.00	1.04	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	18573	1.00	1.03	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	96	15055	1.00	0.9549	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	94	11370	1.00	0.9876	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	4209	1.00	0.9440	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	12651	1.00	0.9438	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	16072	1.00	0.9761	
113 sec-Butylbenzene	105	11.289	11.295	-0.006	99	19633	1.00	0.9721	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	18764	1.00	0.99	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	11150	1.00	1.10	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	274690	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.521	11.527	-0.006	94	11661	1.00	1.13	
118 Benzyl chloride	91	11.655	11.655	0.000	99	7998	1.00	1.00	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	17858	1.00	1.01	
120 p-Diethylbenzene	119	11.759	11.759	0.000	95	10840	1.00	0.99	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	8371	1.00	0.9519	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	10970	1.00	1.07	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	18431	1.00	0.9757	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	82	924	1.00	1.18	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	96	9977	1.00	1.06	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	9587	1.00	1.07	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	95	4351	1.00	0.99	
128 Naphthalene	128	13.319	13.319	0.000	99	19802	1.00	1.06	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	9242	1.00	1.07	
S 130 1,2-Dichloroethene, Total	100				0		2.00	2.26	
S 131 Xylenes, Total	100				0		2.00	2.19	
S 132 Total BTEX	1				0		5.00	5.52	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	1.00	Units: uL	
ACROLEIN W_00078	Amount Added:	10.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	1.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

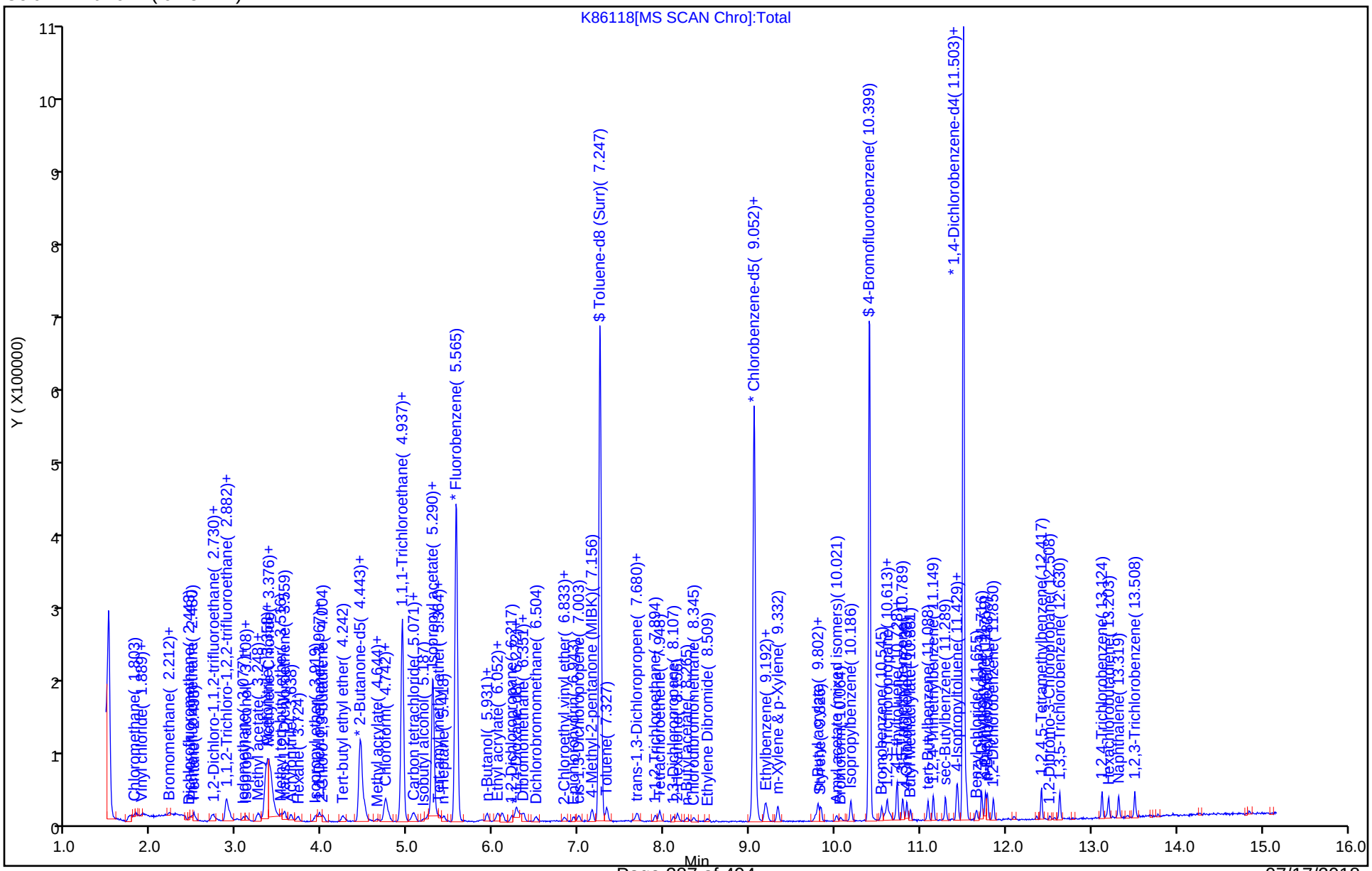
Report Date: 06-Jul-2018 18:58:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D

Injection Date:	06-Jul-2018 01:46:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD1			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

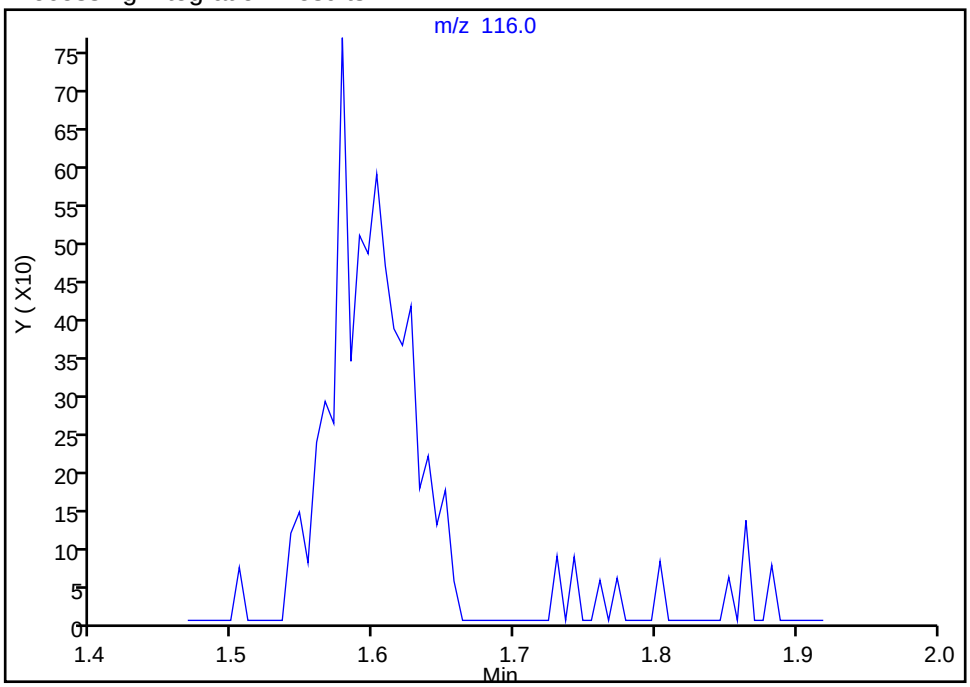
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

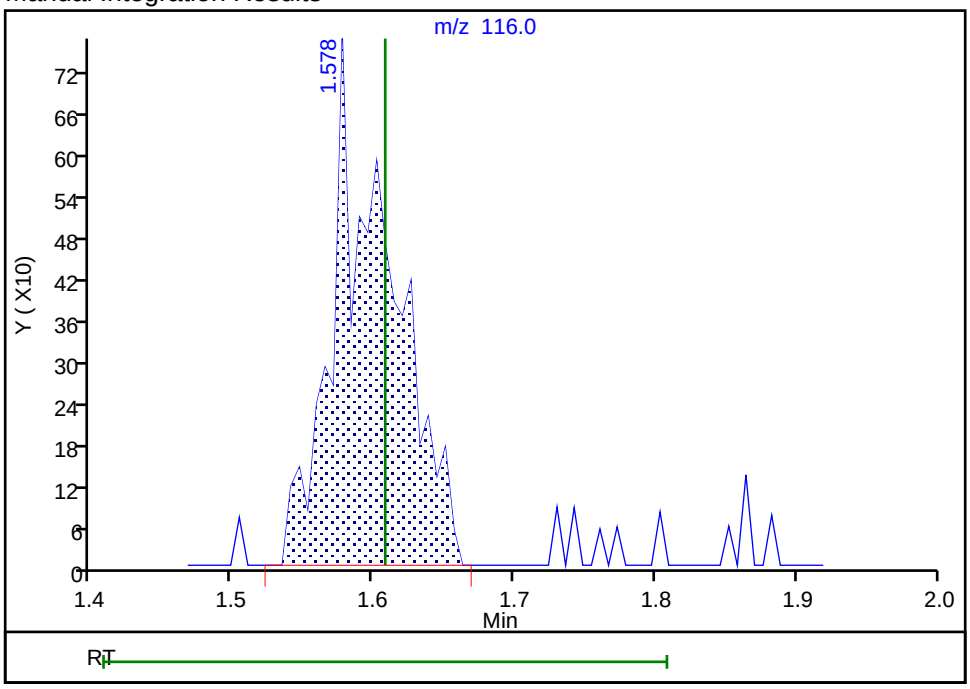
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.58
Area: 2261
Amount: 0.956799
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:17
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

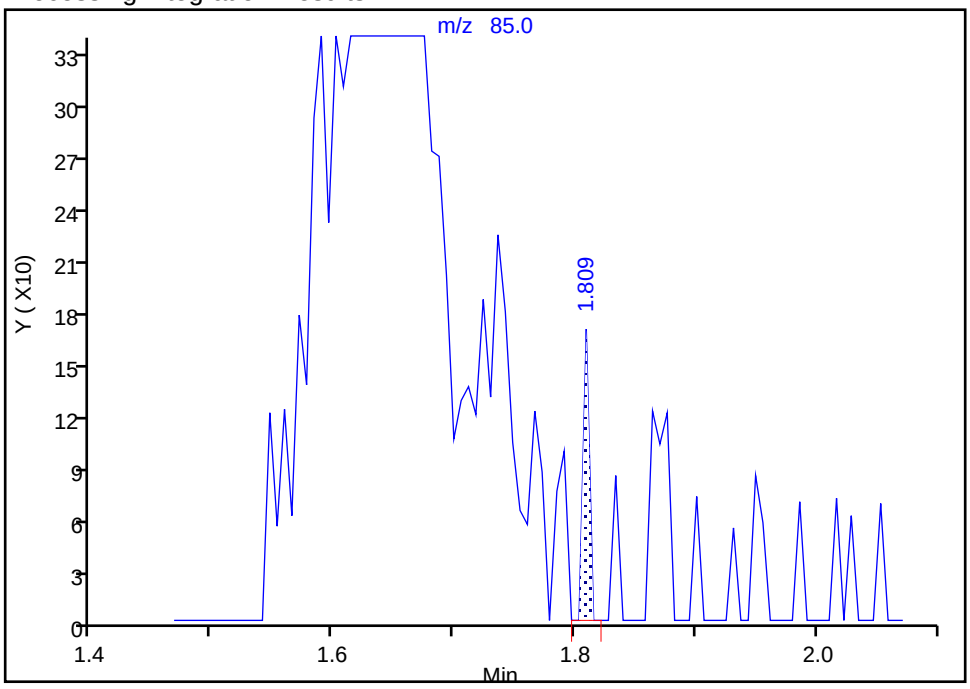
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

2 Dichlorodifluoromethane, CAS: 75-71-8

Signal: 1

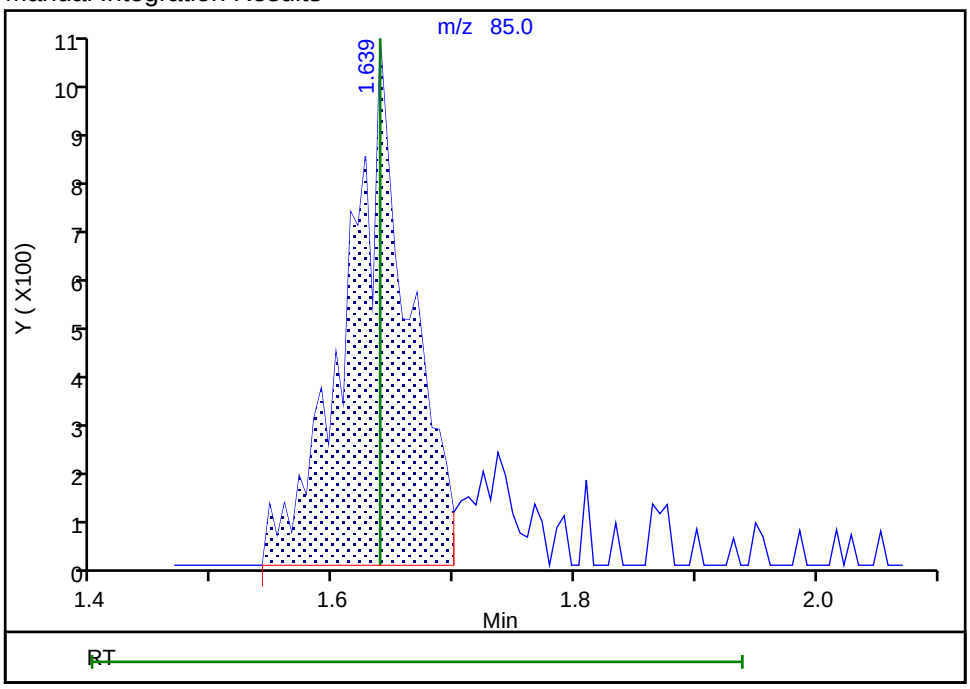
Processing Integration Results

RT: 1.81
Area: 61
Amount: 0.011841
Amount Units: ug/l



Manual Integration Results

RT: 1.64
Area: 3690
Amount: 0.750037
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

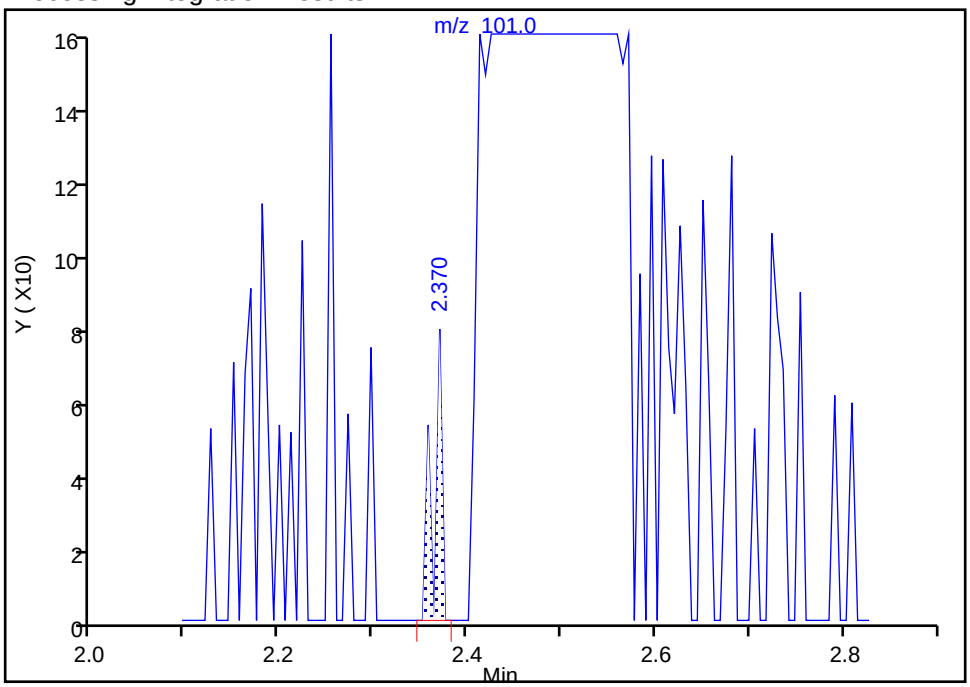
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

8 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

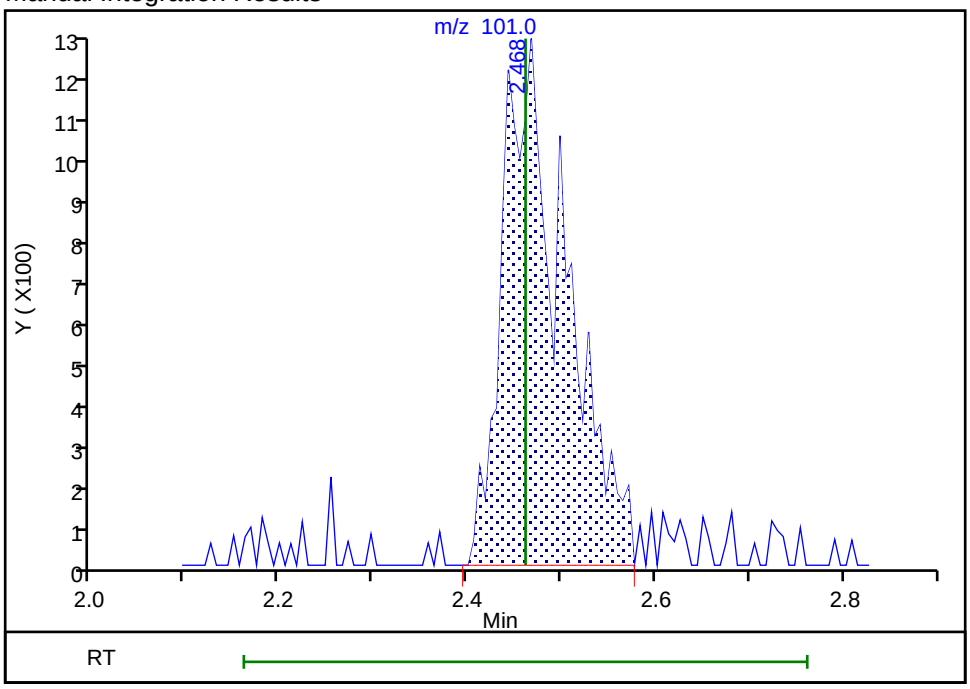
Processing Integration Results

RT: 2.37
Area: 48
Amount: 0.007026
Amount Units: ug/l



Manual Integration Results

RT: 2.47
Area: 5748
Amount: 0.873615
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:49:39
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

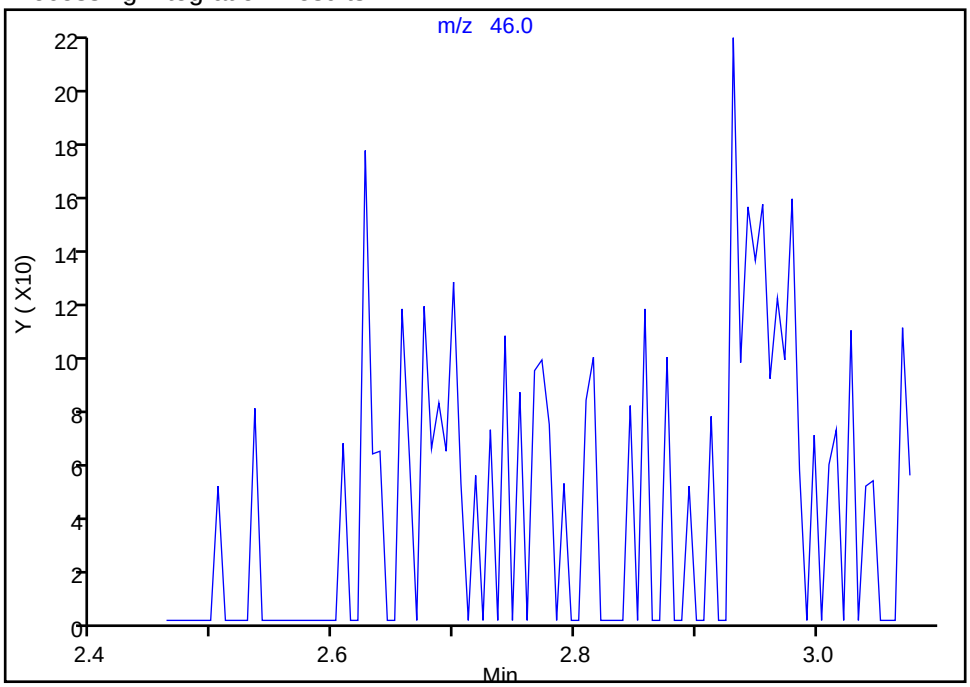
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

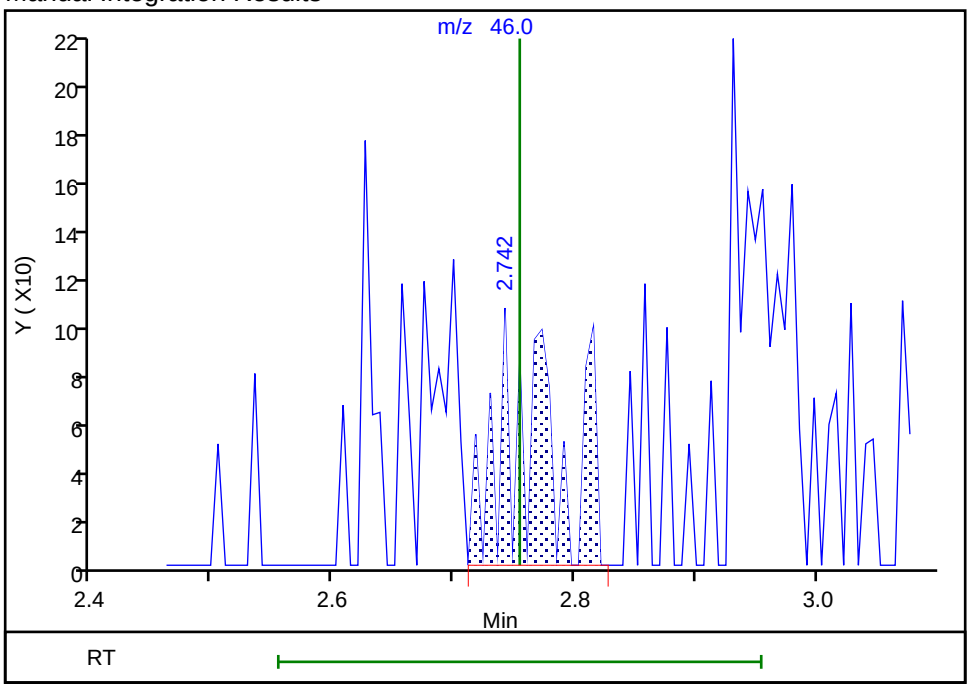
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.74
Area: 296
Amount: 25.125826
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:28
Audit Action: Manually Integrated Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

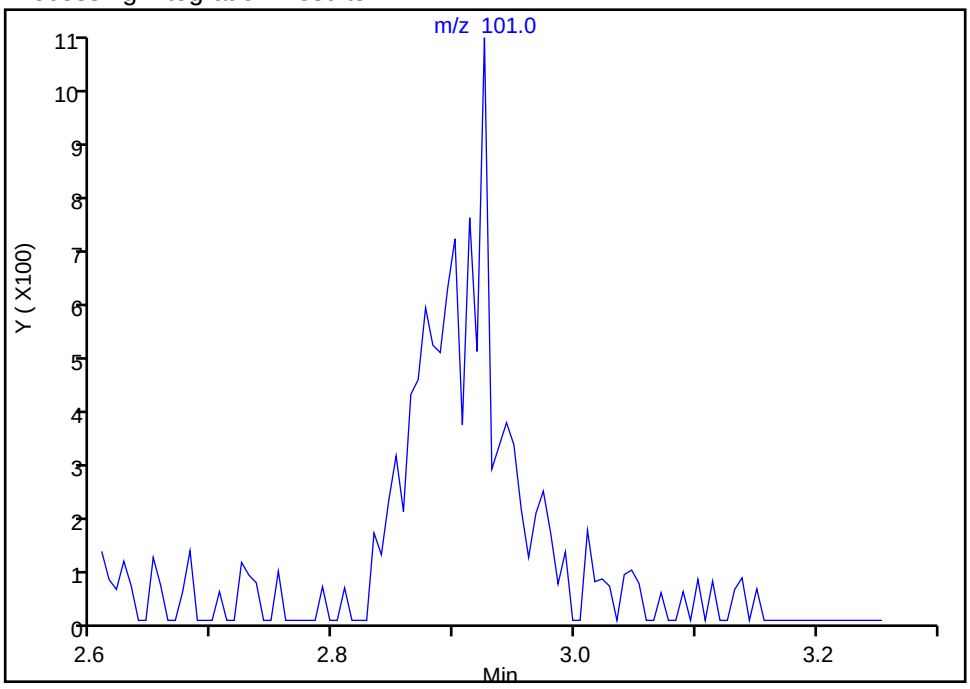
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

16 1,1,2-Trichloro-1,2,2-trifluoroethane, CAS: 76-13-1

Signal: 1

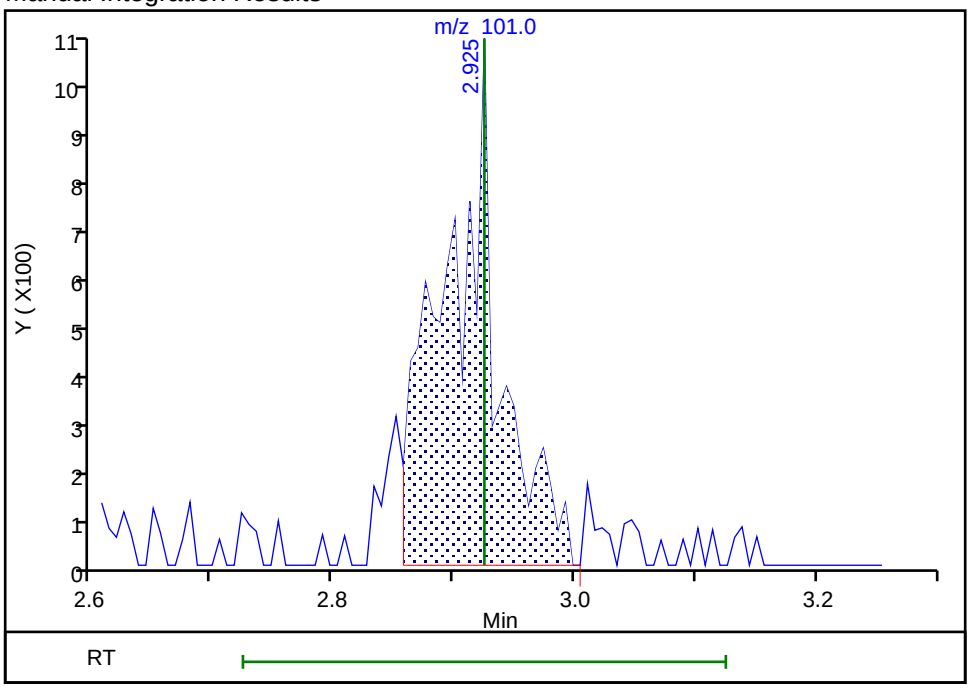
Not Detected
Expected RT: 2.92

Processing Integration Results



Manual Integration Results

RT: 2.93
Area: 3243
Amount: 0.926791
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:37
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

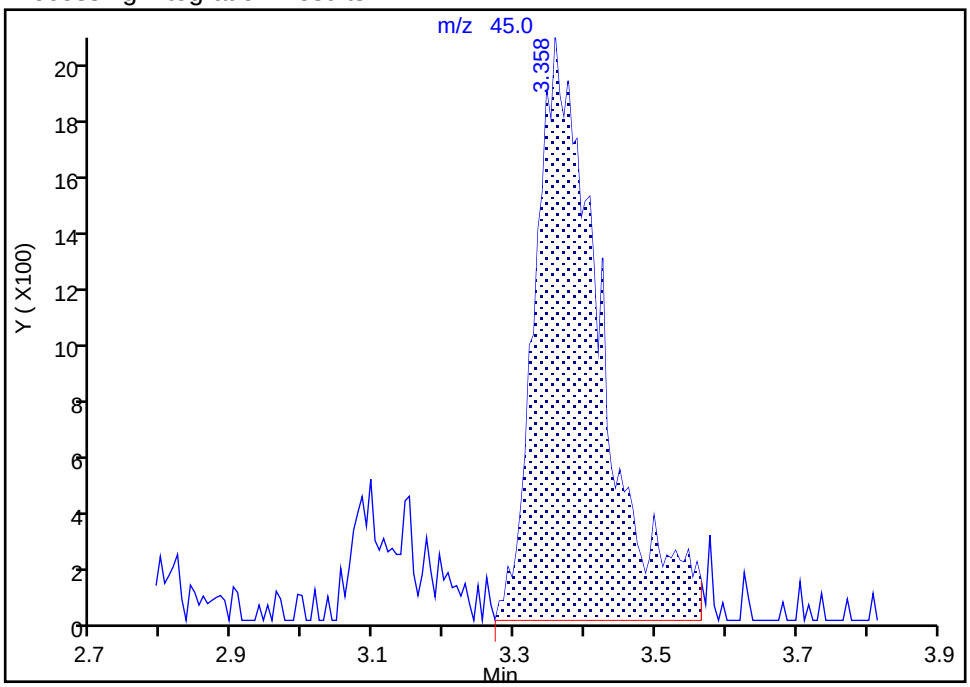
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

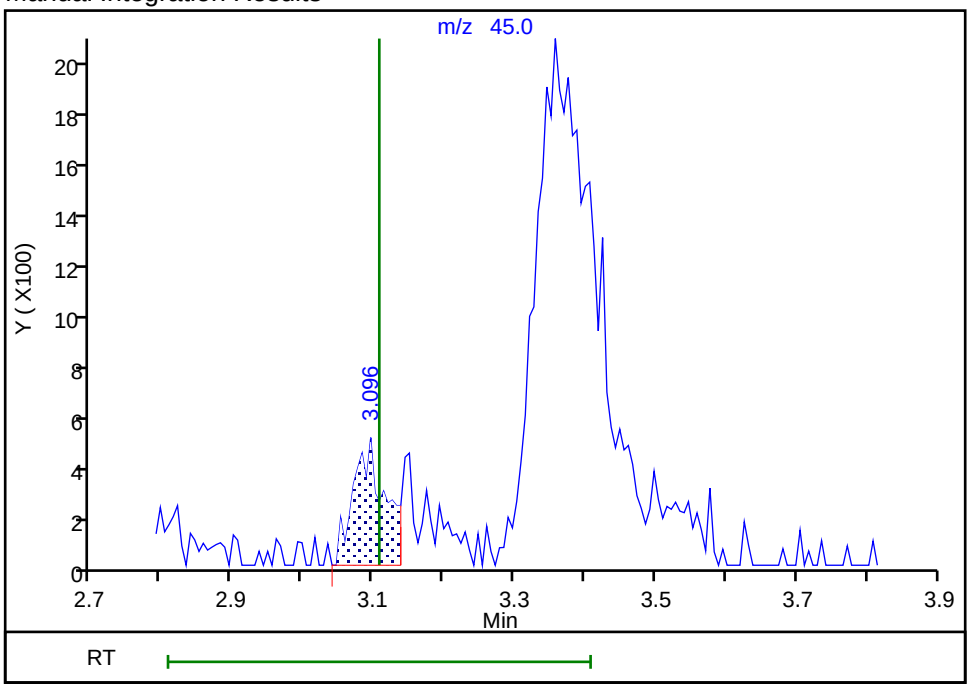
Processing Integration Results

RT: 3.36
Area: 12911
Amount: 33.520001
Amount Units: ug/l



Manual Integration Results

RT: 3.10
Area: 1506
Amount: 7.643810
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:50:58
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

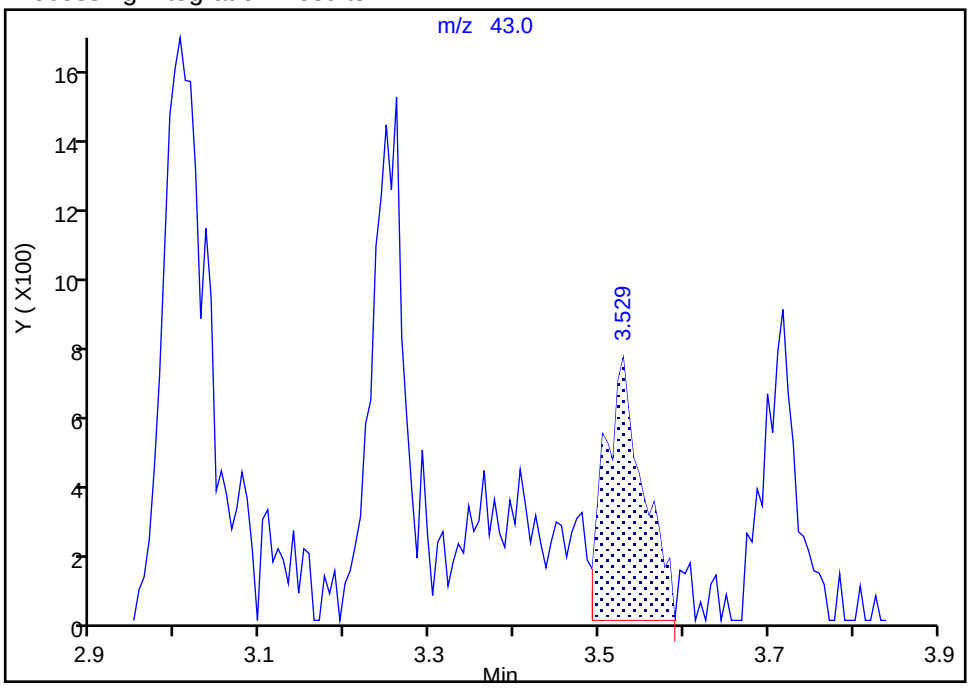
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

23 Methyl acetate, CAS: 79-20-9

Signal: 1

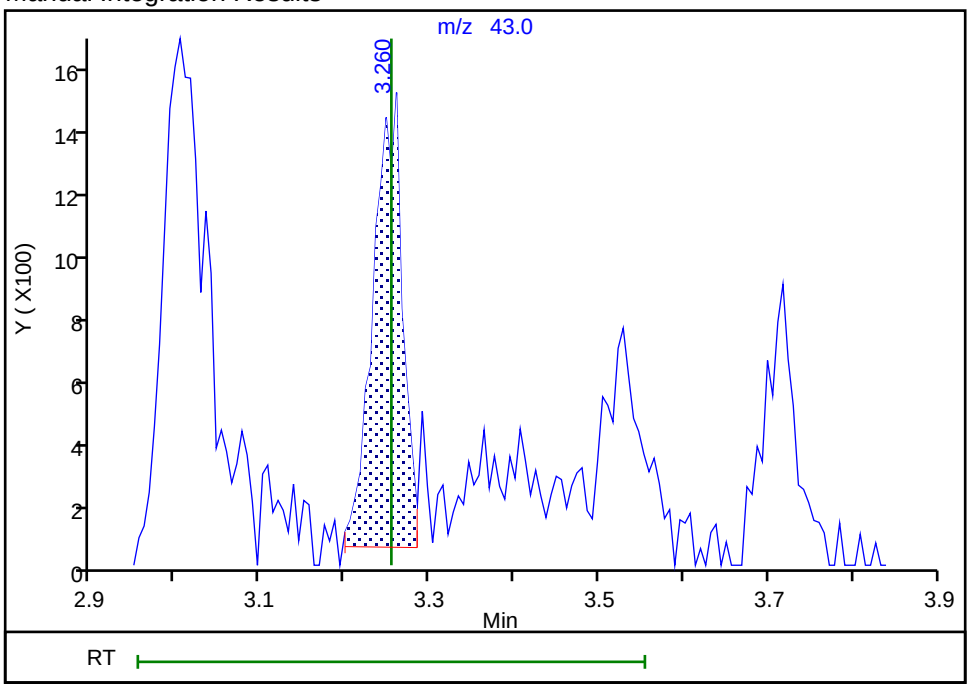
Processing Integration Results

RT: 3.53
Area: 2284
Amount: 1.712889
Amount Units: ug/l



Manual Integration Results

RT: 3.26
Area: 3337
Amount: 2.248775
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:25
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

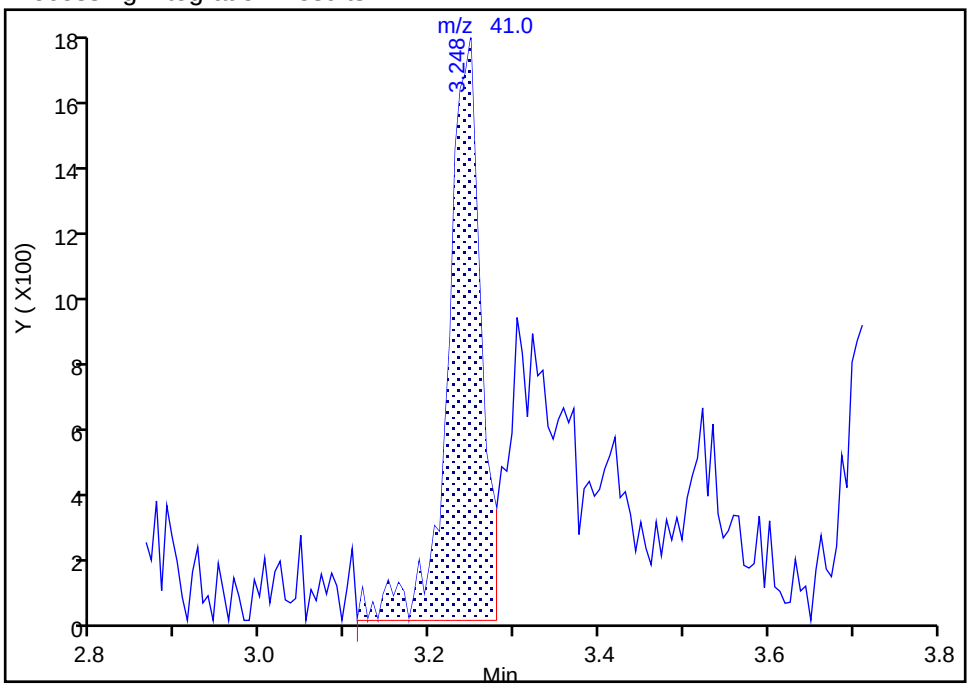
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

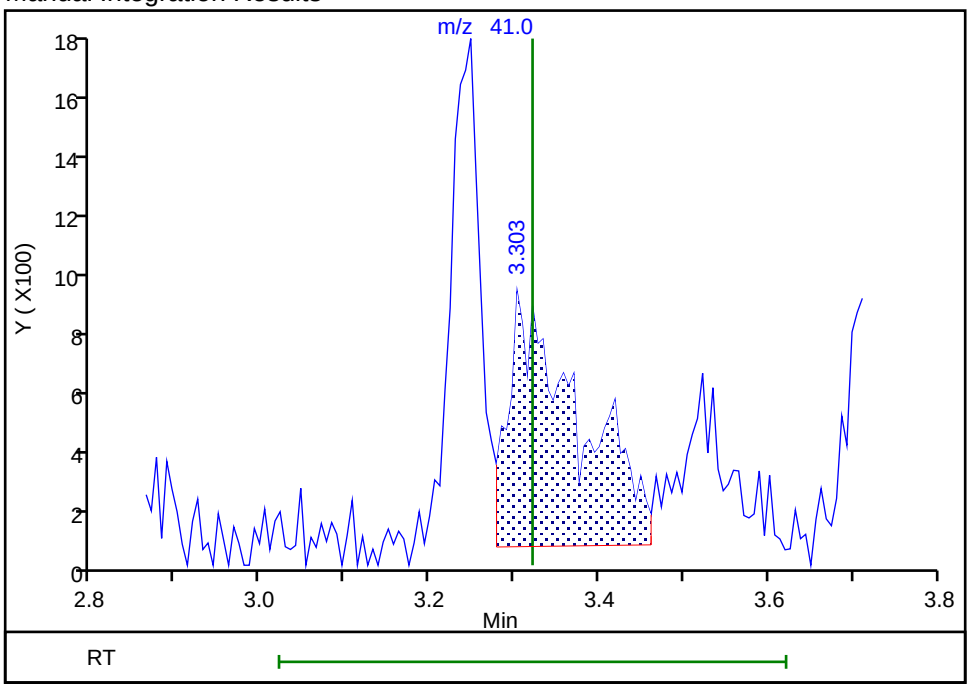
Processing Integration Results

RT: 3.25
Area: 4613
Amount: 12.146097
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 4764
Amount: 12.864889
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:51:34
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

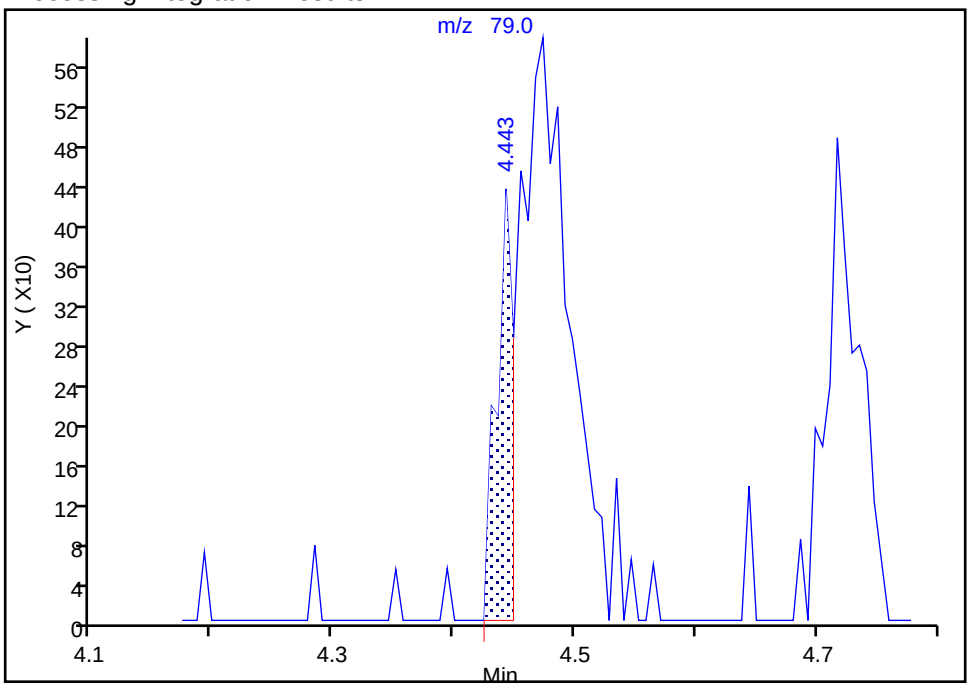
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

39 2,2-Dichloropropane, CAS: 594-20-7

Signal: 1

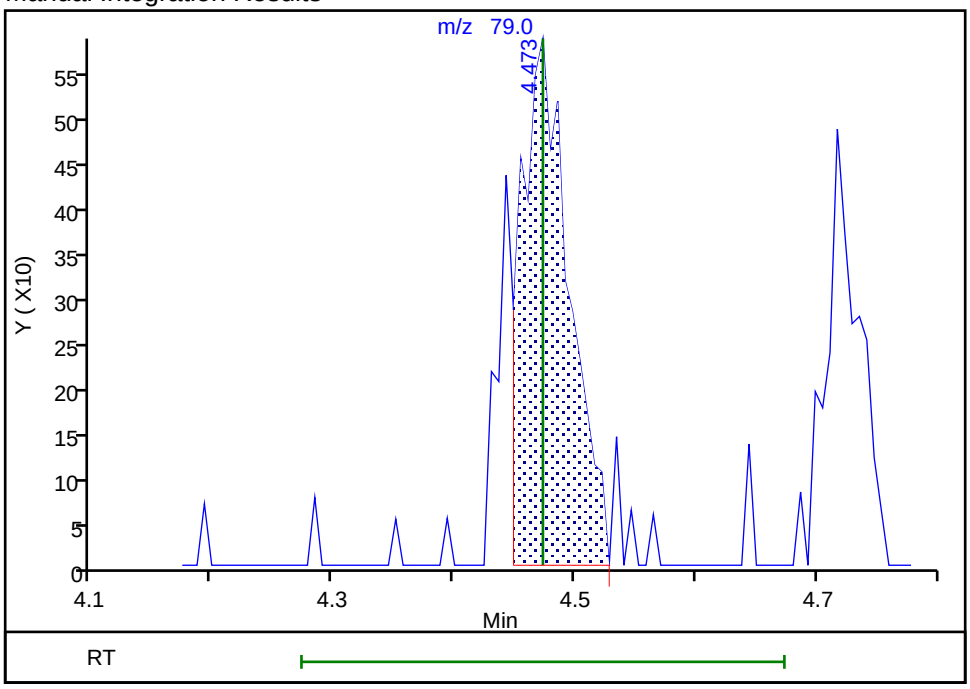
Processing Integration Results

RT: 4.44
Area: 413
Amount: 0.246925
Amount Units: ug/l



Manual Integration Results

RT: 4.47
Area: 1621
Amount: 1.005089
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:10
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

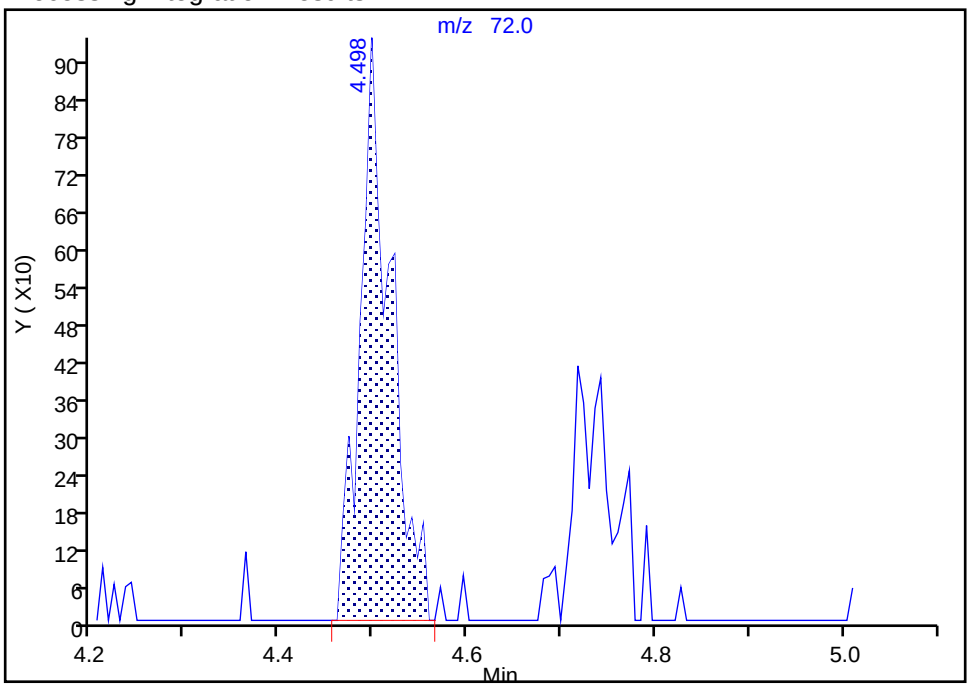
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

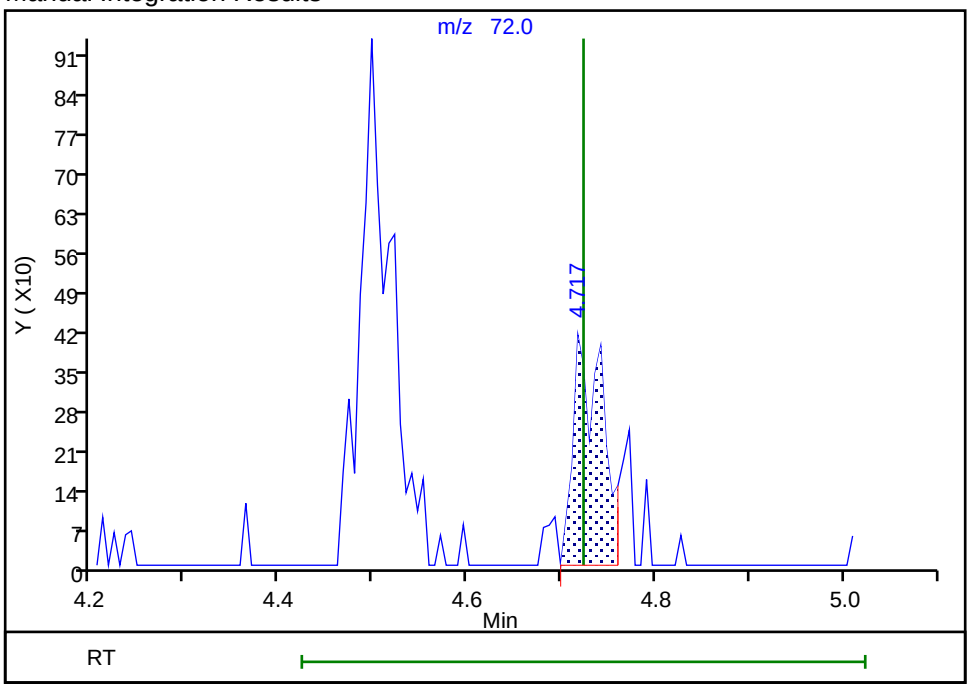
Processing Integration Results

RT: 4.50
Area: 2116
Amount: 5.826841
Amount Units: ug/l



Manual Integration Results

RT: 4.72
Area: 889
Amount: 2.341696
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:52:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

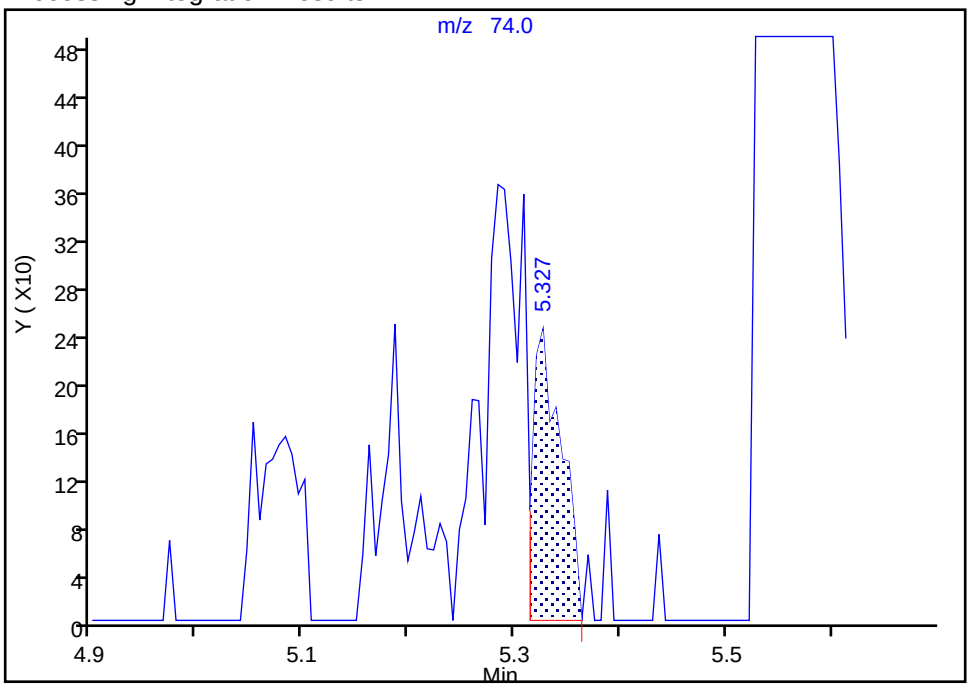
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

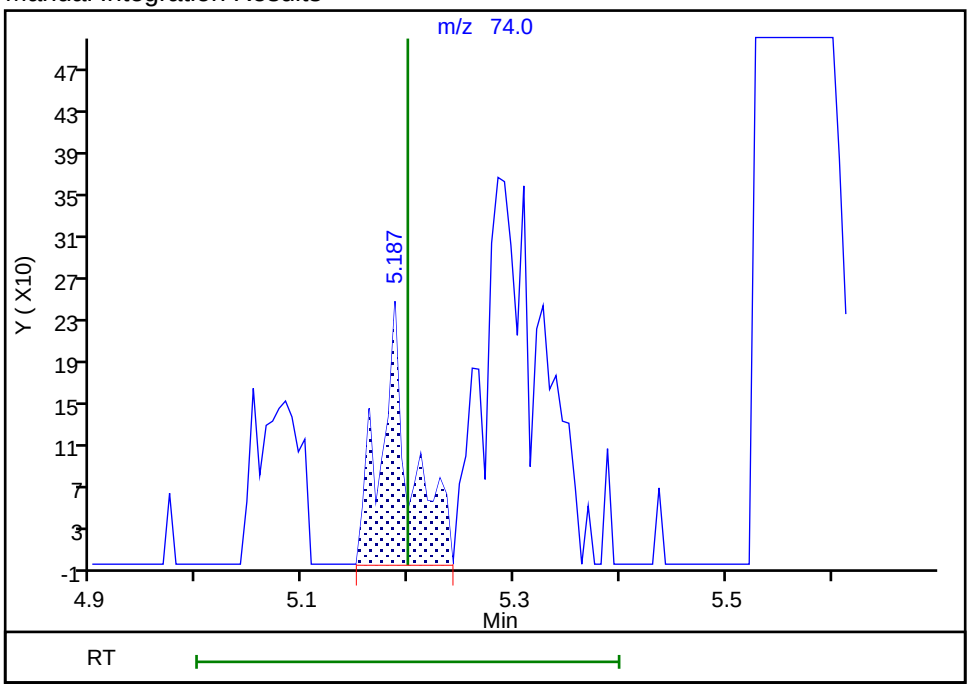
Processing Integration Results

RT: 5.33
Area: 454
Amount: 29.165044
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 495
Amount: 30.295295
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:47:01
Audit Action: Manually Integrated Audit Reason: Split Peak

Manual Integration/User Assign Peak Report

TestAmerica Edison

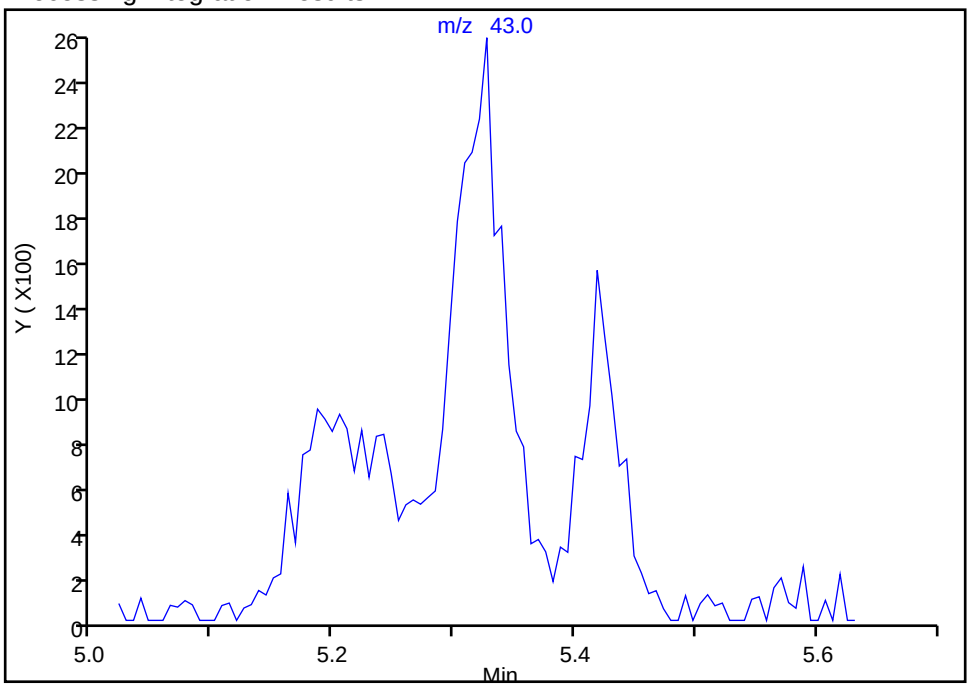
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

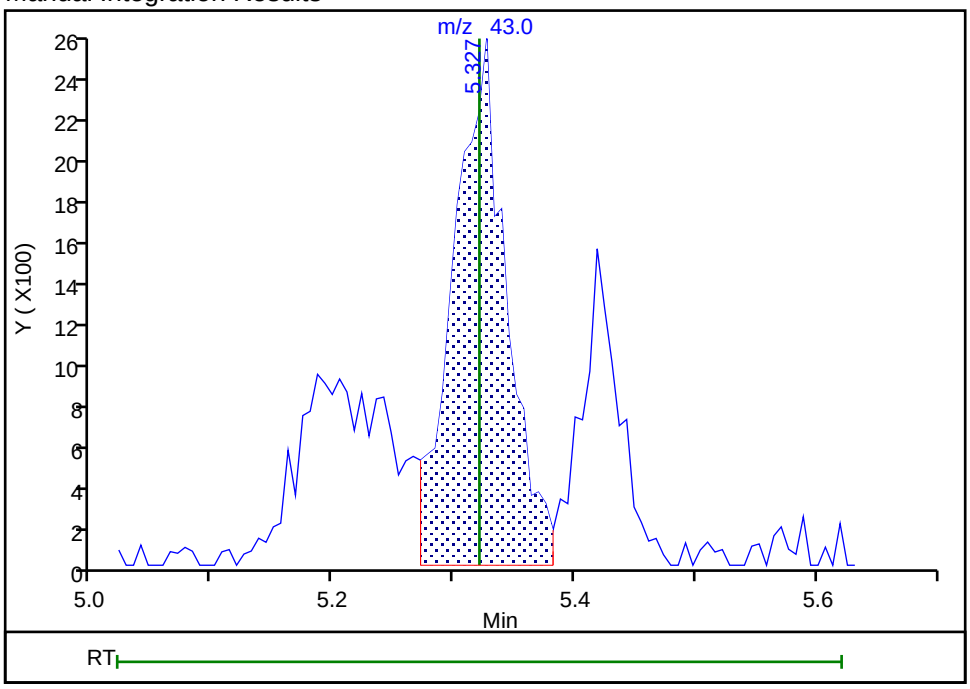
Not Detected
Expected RT: 5.32

Processing Integration Results



Manual Integration Results

RT: 5.33
Area: 8021
Amount: 1.026903
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:06
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

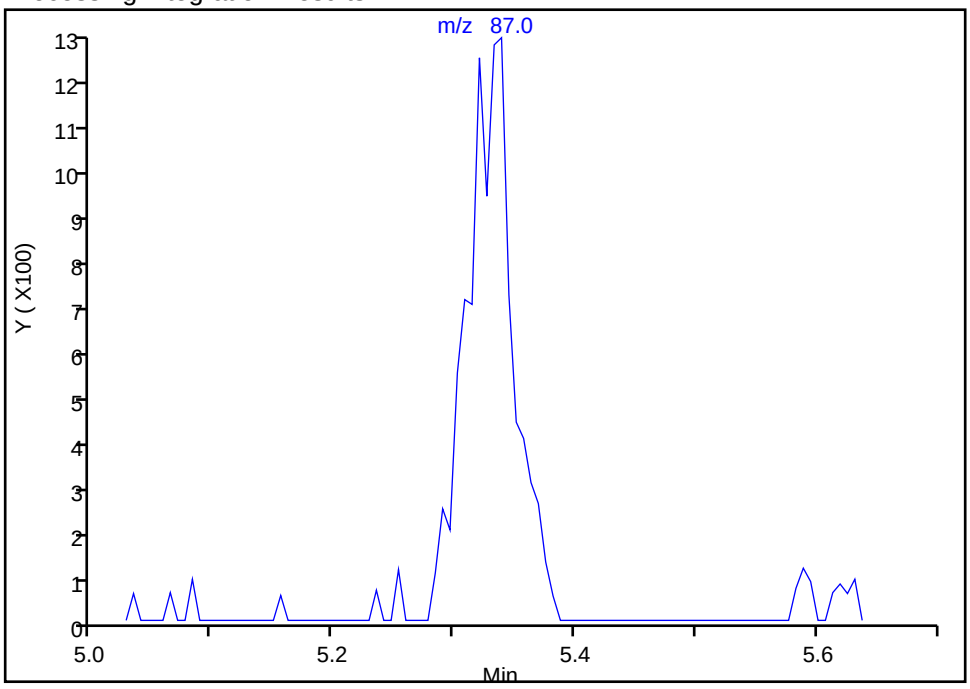
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

58 Tert-amyl methyl ether, CAS: 994-05-8

Signal: 1

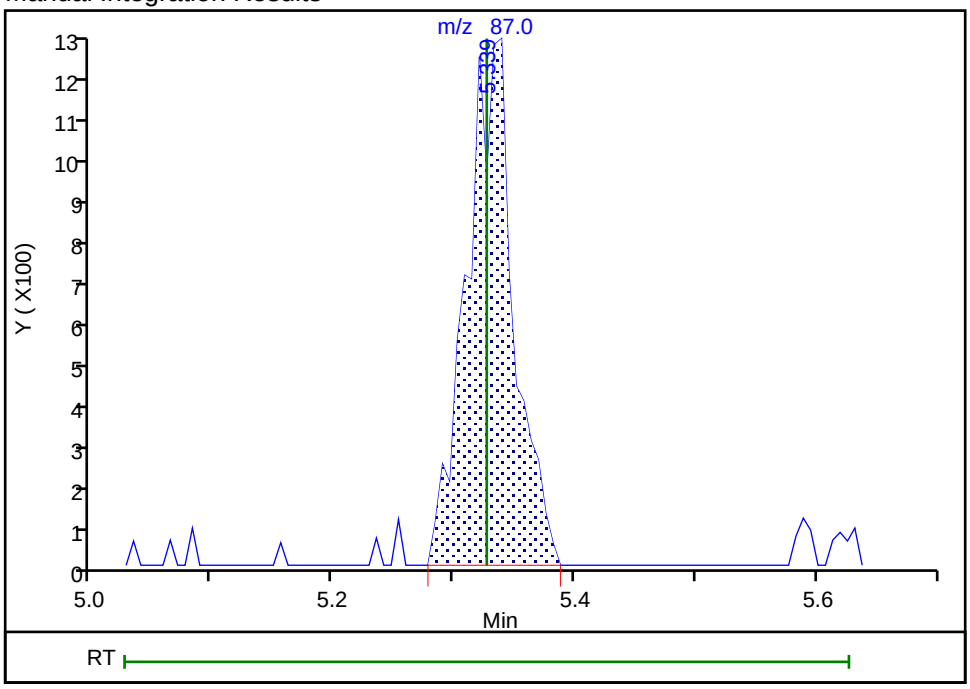
Not Detected
Expected RT: 5.33

Processing Integration Results



Manual Integration Results

RT: 5.34
Area: 3302
Amount: 1.078015
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:11
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

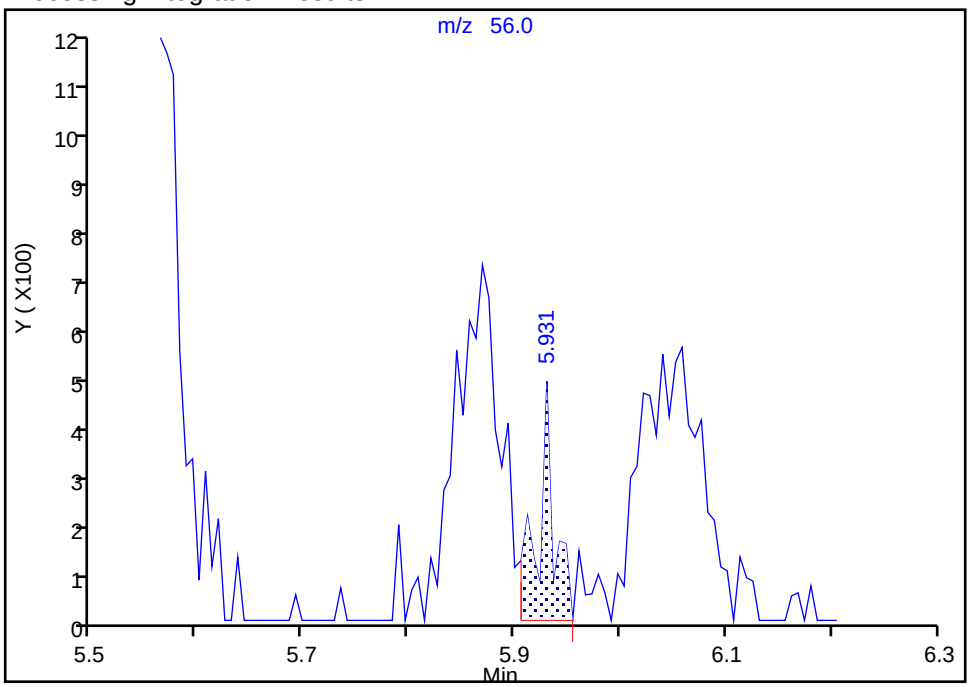
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 n-Butanol, CAS: 71-36-3

Signal: 1

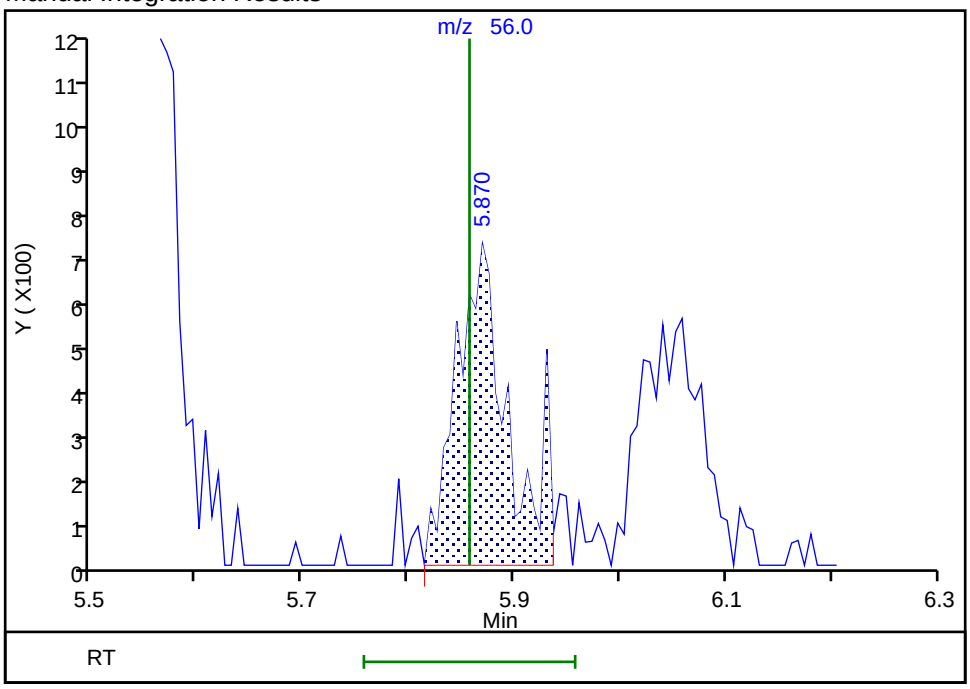
Processing Integration Results

RT: 5.93
Area: 516
Amount: 6.522027
Amount Units: ug/l



Manual Integration Results

RT: 5.87
Area: 2412
Amount: 27.741964
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:20
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

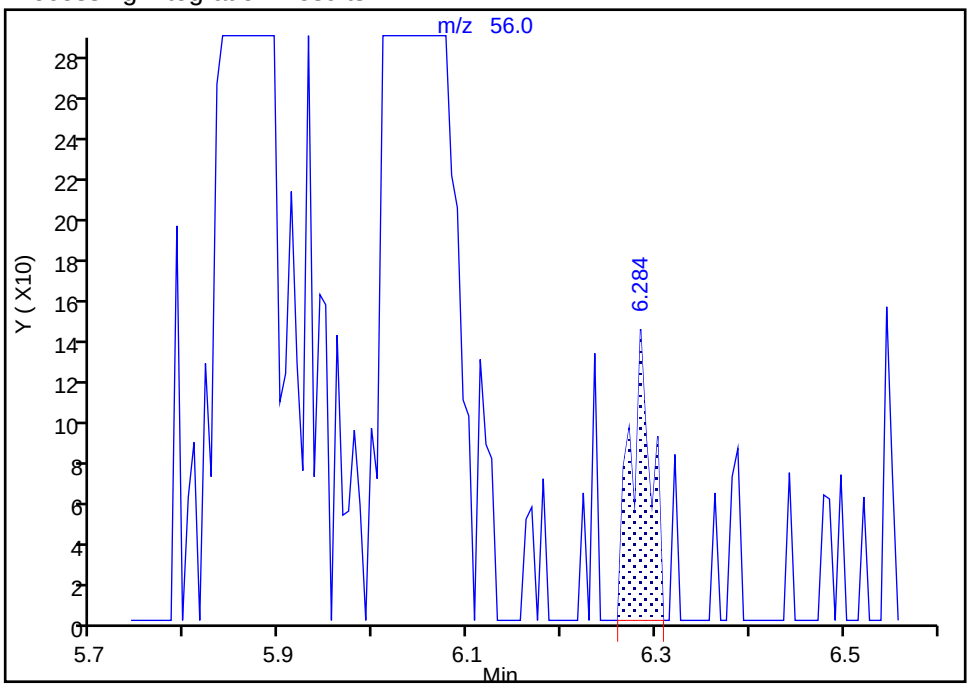
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

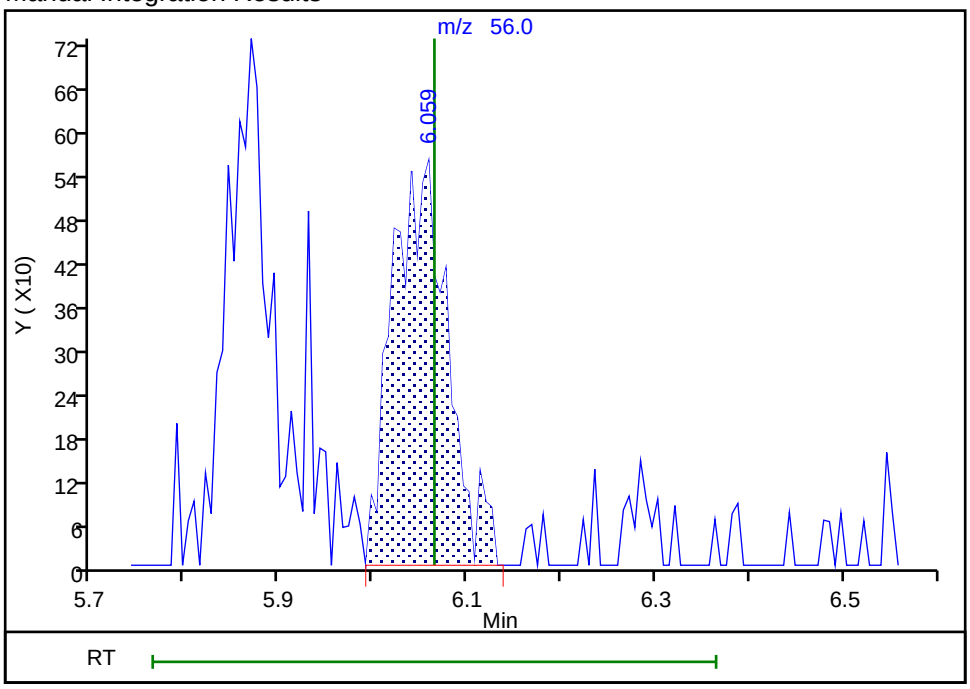
Processing Integration Results

RT: 6.28
Area: 220
Amount: 0.122740
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 2274
Amount: 1.288268
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:53:35
Audit Action: Assigned Compound ID Audit Reason: Baseline

Manual Integration/User Assign Peak Report

TestAmerica Edison

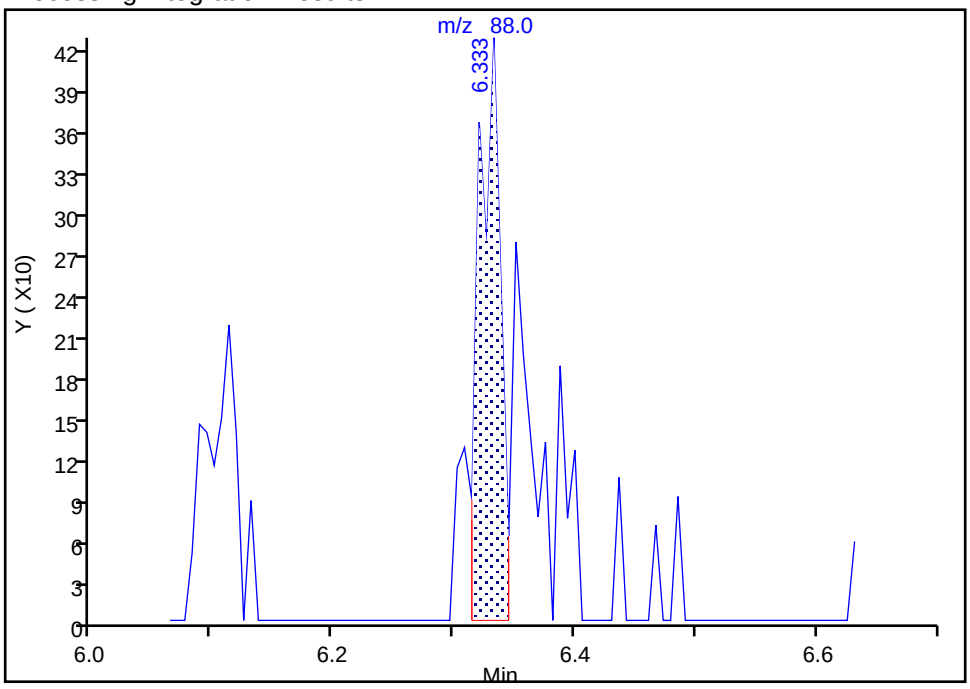
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86118.D
Injection Date: 06-Jul-2018 01:46:30 Instrument ID: CVOAMS9
Lims ID: STD1
Client ID:
Operator ID: ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

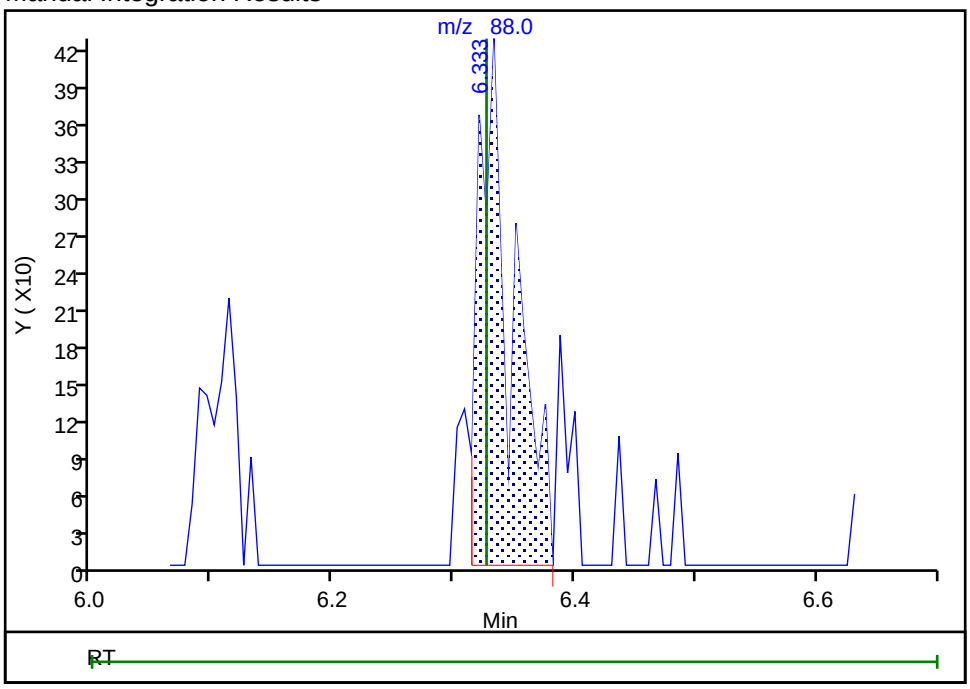
Processing Integration Results

RT: 6.33
Area: 534
Amount: 15.547954
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 832
Amount: 22.053400
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:44:34
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Lims ID: STD5
Client ID:
Sample Type: IC Calib Level: 2
Inject. Date: 06-Jul-2018 02:10:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD5
Misc. Info.: 460-0074947-004
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:32 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:48:43

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	73	10049	5.00	4.08	
2 Dichlorodifluoromethane	85	1.638	1.639	-0.001	98	23410	5.00	4.57	
3 Chloromethane	50	1.815	1.822	-0.007	99	19558	5.00	4.64	
4 Vinyl chloride	62	1.907	1.913	-0.006	97	19396	5.00	4.48	a
5 Butadiene	54	1.901	1.919	-0.018	72	16478	5.00	4.79	
6 Bromomethane	94	2.211	2.218	-0.007	98	18827	5.00	4.76	
7 Chloroethane	64	2.266	2.273	-0.007	97	11373	5.00	4.87	
9 Dichlorofluoromethane	67	2.474	2.462	0.012	96	32091	5.00	4.93	
8 Trichlorofluoromethane	101	2.461	2.462	-0.001	87	32312	5.00	4.71	
10 Pentane	72	2.492	2.504	-0.012	94	4094	10.0	8.21	
11 Ethyl ether	59	2.693	2.699	-0.006	91	10146	5.00	5.08	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	9964	5.00	4.64	
14 1,2-Dichloro-1,1,2-trifluo	117	2.760	2.748	0.012	77	15471	5.00	4.58	
12 Ethanol	46	2.711	2.754	-0.043	58	2517	200.0	190.2	
15 Acrolein	56	2.882	2.882	0.000	97	67018	200.0	195.6	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	92	15305	5.00	4.61	
16 1,1,2-Trichloro-1,2,2-trif	101	2.900	2.925	-0.025	59	17230	5.00	4.72	
18 Acetone	43	3.004	3.004	0.000	84	21583	25.0	27.2	
19 Iodomethane	142	3.077	3.083	-0.006	99	37031	5.00	4.63	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	11986	50.0	54.2	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	47954	5.00	4.46	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	78	9229	5.00	4.79	
23 Methyl acetate	43	3.248	3.254	-0.006	88	15964	10.0	9.58	
24 Cyclopentene	67	3.266	3.266	0.000	90	28347	5.00	4.38	
29 Acetonitrile	41	3.321	3.321	0.000	42	20495	50.0	49.3	a
26 Methylene Chloride	84	3.376	3.370	0.006	60	18594	5.00	4.98	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	322534	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	95	25375	50.0	53.0	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	94	46271	5.00	4.88	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	86	17585	5.00	4.90	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	96	44073	50.0	50.7	
32 Hexane	43	3.711	3.717	-0.006	92	8126	5.00	4.00	
33 Isopropyl ether	45	3.925	3.925	0.000	93	35852	5.00	4.74	
34 1,1-Dichloroethane	63	3.973	3.974	-0.001	78	24741	5.00	4.69	
35 Vinyl acetate	86	3.973	3.974	-0.001	98	5877	10.0	9.40	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	90	14158	5.00	4.84	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	92	42410	5.00	4.78	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	194530	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	8382	5.00	4.99	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	90	20626	5.00	4.85	
41 Ethyl acetate	70	4.504	4.504	0.000	81	2757	10.0	8.19	
42 2-Butanone (MEK)	72	4.510	4.504	0.006	98	9286	25.0	25.6	
44 Methyl acrylate	55	4.559	4.559	0.000	97	10523	5.00	5.04	a
43 Propionitrile	54	4.644	4.644	0.000	97	18185	50.0	45.4	
45 Tetrahydrofuran	72	4.723	4.723	0.000	51	4303	10.0	10.4	
46 Chlorobromomethane	128	4.729	4.729	0.000	71	12006	5.00	5.02	
47 Methacrylonitrile	67	4.741	4.748	-0.007	89	53044	50.0	48.7	
48 Chloroform	83	4.778	4.778	0.000	99	30715	5.00	4.78	
49 Cyclohexane	84	4.918	4.925	-0.007	83	20650	5.00	4.38	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183321	50.0	52.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	29332	5.00	4.77	
52 Carbon tetrachloride	117	5.052	5.059	-0.007	89	24796	5.00	4.54	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	93	19172	5.00	4.39	
56 Isobutyl alcohol	74	5.199	5.199	0.000	95	1798	125.0	98.0	a
54 Benzene	78	5.278	5.284	-0.006	96	59717	5.00	4.77	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	156287	50.0	47.8	
57 Isopropyl acetate	43	5.327	5.321	0.006	61	37612	5.00	4.62	a
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	91	15219	5.00	4.77	
59 1,2-Dichloroethane	62	5.369	5.376	-0.007	96	22423	5.00	4.90	
60 n-Heptane	57	5.424	5.424	0.000	82	9667	5.00	4.08	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	510903	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	9707	125.0	99.4	
63 Trichloroethene	95	5.930	5.930	0.000	91	17099	5.00	4.71	
65 Methylcyclohexane	83	6.064	6.058	0.006	92	26889	5.00	4.51	
64 Ethyl acrylate	56	6.046	6.065	-0.019	97	8095	5.00	4.40	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	86	13133	5.00	4.73	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	28861	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	16744	10.0	9.69	
69 1,4-Dioxane	88	6.333	6.327	0.006	37	4033	100.0	93.8	M
70 n-Propyl acetate	43	6.327	6.327	-0.001	96	14785	5.00	4.66	
71 Dibromomethane	93	6.357	6.351	0.006	88	11618	5.00	4.93	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	21083	5.00	4.63	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.005	78	6869	5.00	4.63	
74 2-Nitropropane	41	6.833	6.833	-0.001	84	4711	10.0	8.10	
75 Epichlorohydrin	57	6.942	6.942	0.000	100	23871	100.0	93.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	89	21627	5.00	4.52	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	56254	25.0	23.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	571588	50.0	49.4	
79 Toluene	91	7.326	7.333	-0.007	92	68282	5.00	4.69	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	19676	5.00	4.53	
81 Ethyl methacrylate	69	7.692	7.692	0.000	85	16415	5.00	4.74	
82 1,1,2-Trichloroethane	83	7.893	7.894	-0.001	93	10661	5.00	4.76	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	95	21904	5.00	4.57	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	19466	5.00	4.73	
85 2-Hexanone	43	8.155	8.156	-0.001	93	35883	25.0	23.6	
86 n-Butyl acetate	43	8.265	8.265	0.000	97	16499	5.00	4.96	
87 Chlorodibromomethane	129	8.344	8.345	-0.001	96	16637	5.00	4.70	
88 Ethylene Dibromide	107	8.509	8.509	0.000	96	15316	5.00	4.87	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	435609	50.0	50.0	
90 Chlorobenzene	112	9.088	9.094	-0.006	98	48838	5.00	4.76	
92 Ethylbenzene	106	9.180	9.186	-0.006	97	26141	5.00	4.71	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	20011	5.00	4.70	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	32110	5.00	4.71	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	10132	5.00	4.91	
95 o-Xylene	106	9.801	9.802	-0.001	94	34320	5.00	4.79	
96 Styrene	104	9.832	9.832	0.000	96	52373	5.00	4.78	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	19888	5.00	4.88	
98 Bromoform	173	10.070	10.070	0.000	97	11095	5.00	4.64	
99 Isopropylbenzene	105	10.186	10.186	0.000	94	86076	5.00	4.63	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	236717	50.0	50.6	
101 Bromobenzene	156	10.545	10.545	0.000	80	26635	5.00	4.74	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	95	18228	5.00	4.56	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	96790	5.00	4.66	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	94	6561	5.00	5.23	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	71	4112	5.00	4.42	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	88524	5.00	4.69	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	66796	5.00	4.62	
108 1,3,5-Trimethylbenzene	105	10.789	10.795	-0.006	95	74216	5.00	4.49	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	95	55500	5.00	4.60	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	21560	5.00	4.61	
111 tert-Butylbenzene	119	11.088	11.088	0.000	96	60051	5.00	4.27	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	80171	5.00	4.64	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	92066	5.00	4.35	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	87428	5.00	4.42	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	50640	5.00	4.75	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	92	288105	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	52879	5.00	4.90	
118 Benzyl chloride	91	11.655	11.655	0.000	99	41138	5.00	4.89	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	92	88467	5.00	4.79	
120 p-Diethylbenzene	119	11.758	11.759	-0.001	95	54541	5.00	4.76	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	42111	5.00	4.57	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	51461	5.00	4.76	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	92156	5.00	4.65	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	89	4043	5.00	4.91	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	95	49404	5.00	5.00	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	46843	5.00	4.99	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	20299	5.00	4.42	
128 Naphthalene	128	13.319	13.319	0.000	99	96788	5.00	4.94	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	44125	5.00	4.87	
S 130 1,2-Dichloroethene, Total	100				0		10.0	9.75	
S 131 Xylenes, Total	100				0		10.0	9.50	
S 132 Total BTEX	1				0		25.0	23.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	0.50	Units: uL	
ACROLEIN W_00078	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	0.50	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

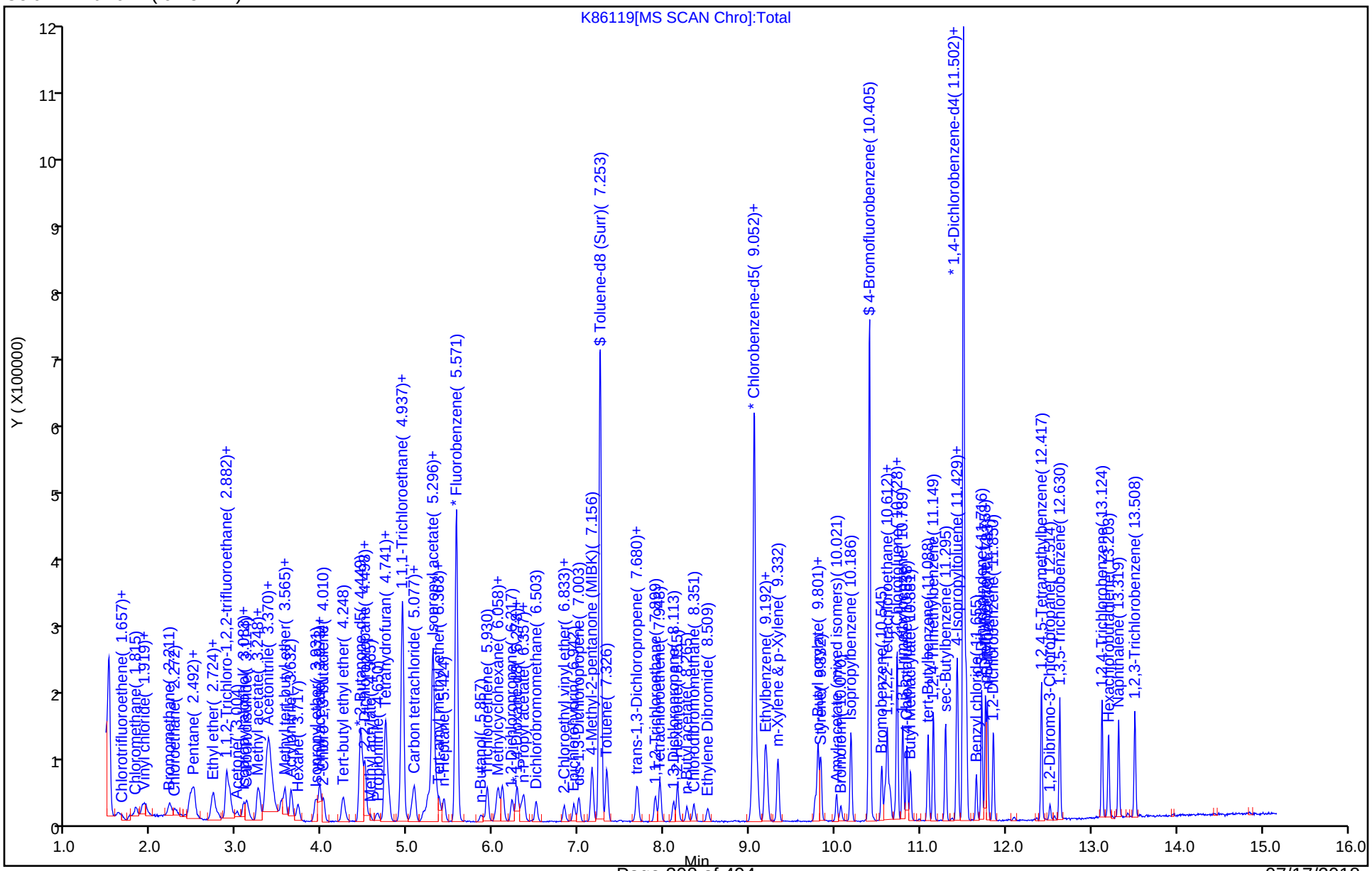
Report Date: 06-Jul-2018 18:58:34 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D

Injection Date:	06-Jul-2018 02:10:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD5			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

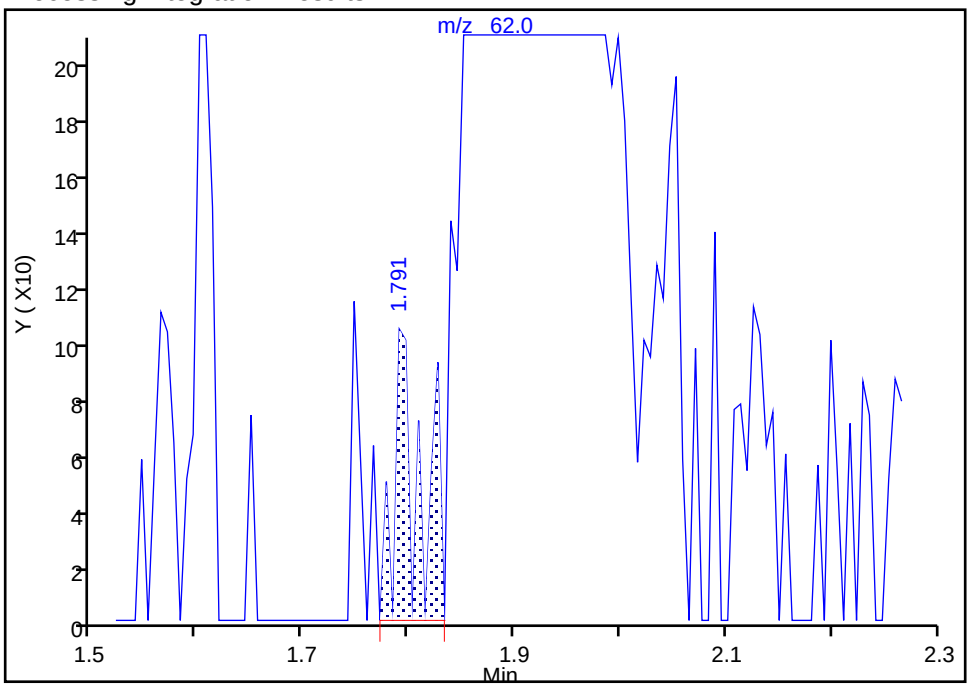
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

4 Vinyl chloride, CAS: 75-01-4

Signal: 1

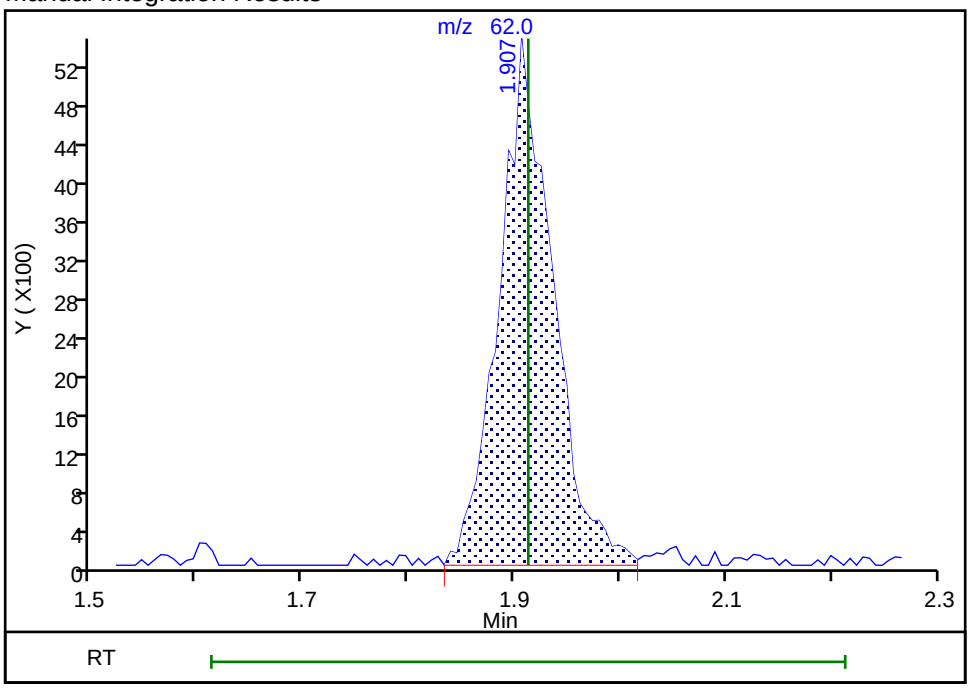
Processing Integration Results

RT: 1.79
Area: 174
Amount: 2.213694
Amount Units: ug/l



Manual Integration Results

RT: 1.91
Area: 19396
Amount: 4.479949
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:45:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

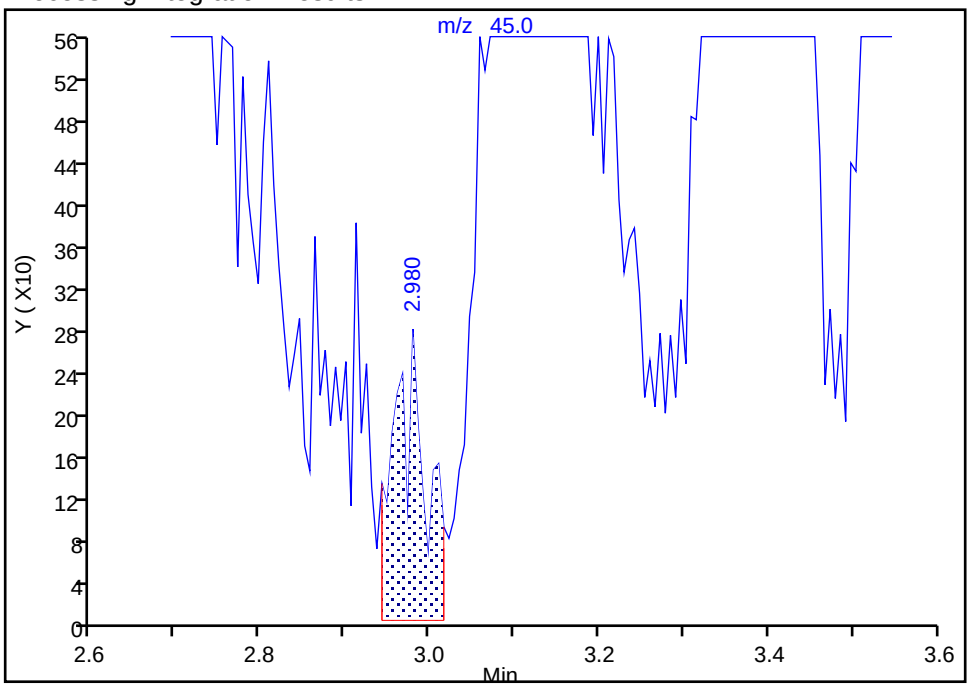
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

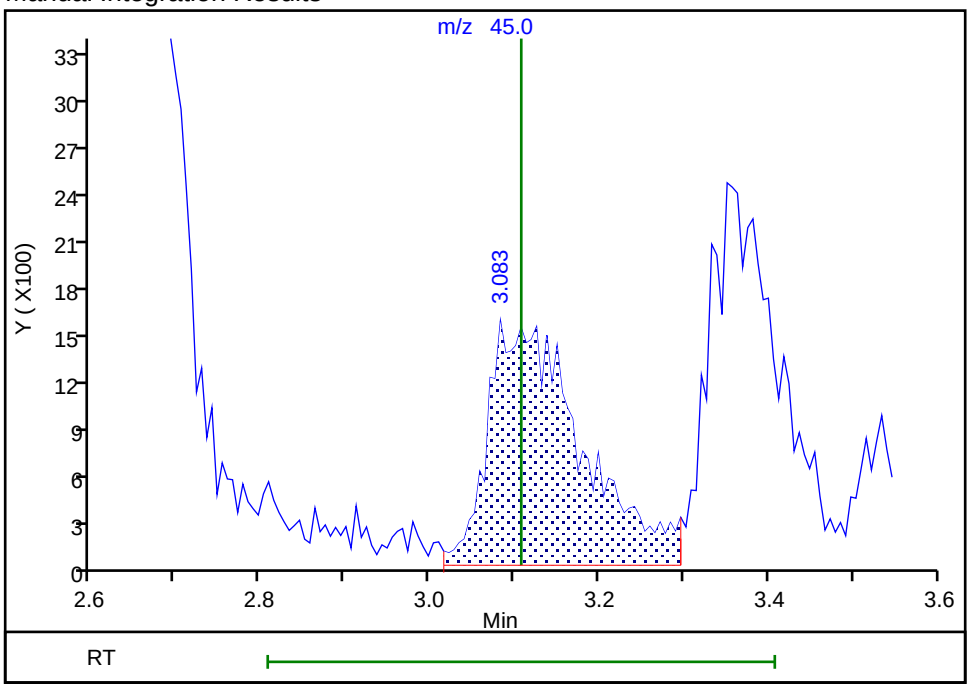
Processing Integration Results

RT: 2.98
Area: 725
Amount: 28.206783
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 11986
Amount: 54.166066
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:40
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

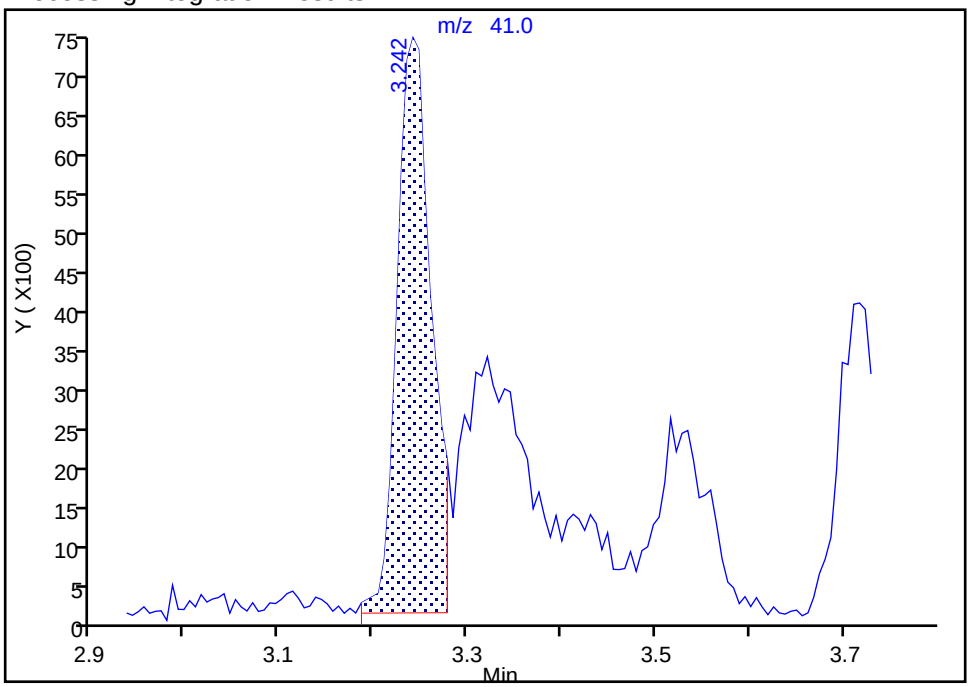
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

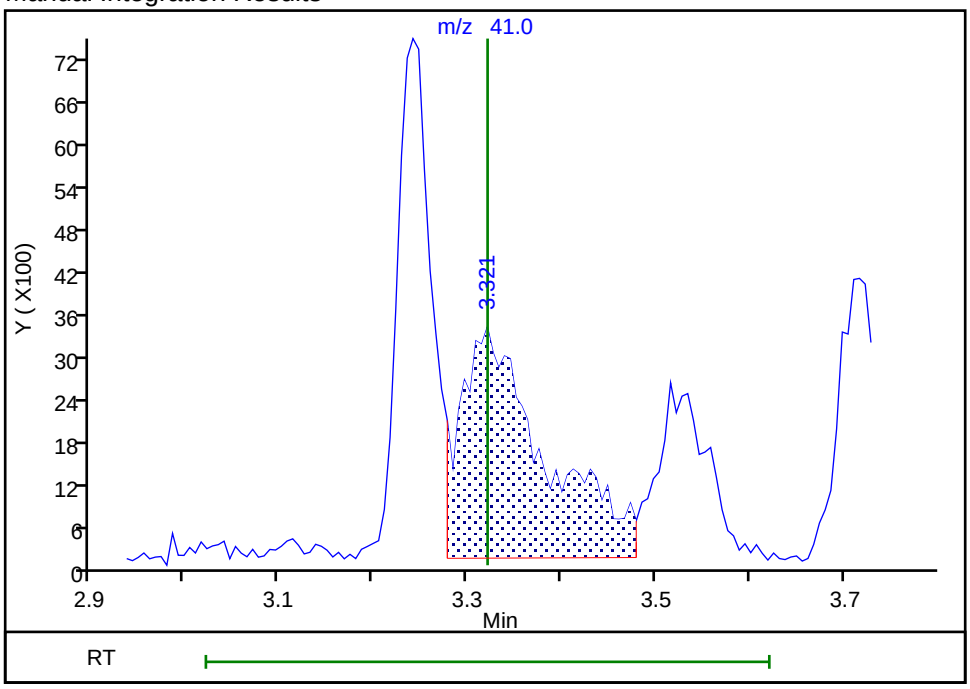
Processing Integration Results

RT: 3.24
Area: 18680
Amount: 44.716158
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 20495
Amount: 49.277687
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:46:49
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

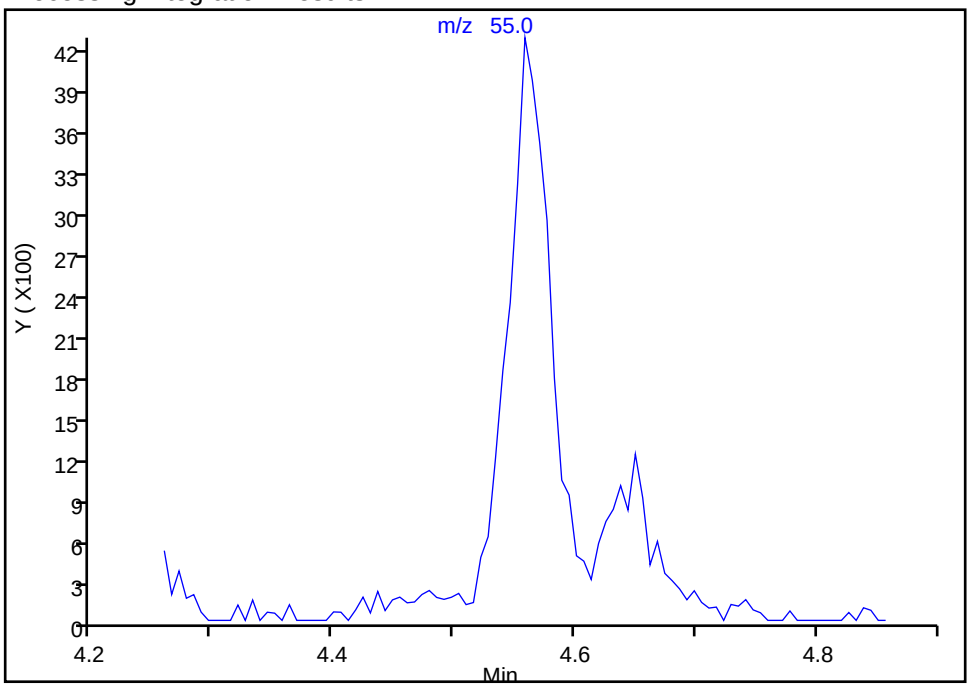
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

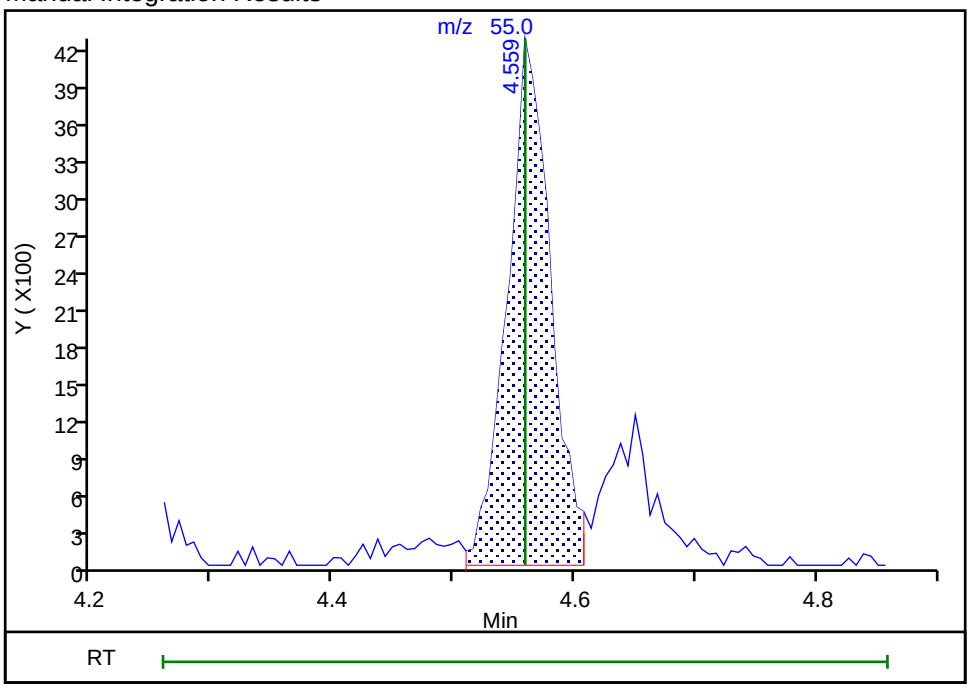
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 10523
Amount: 5.043030
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:24
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

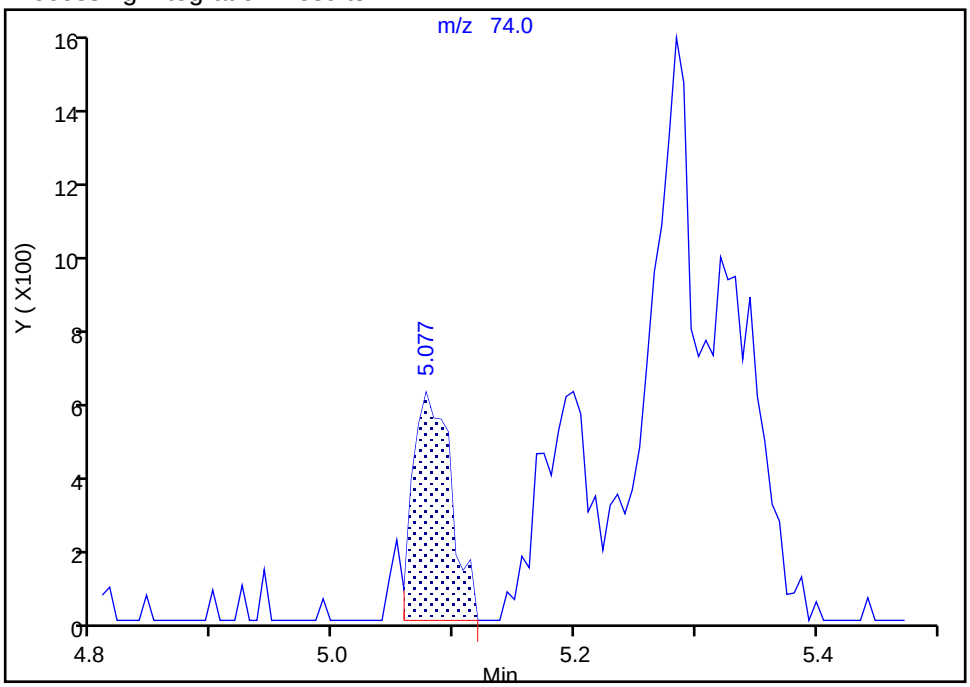
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

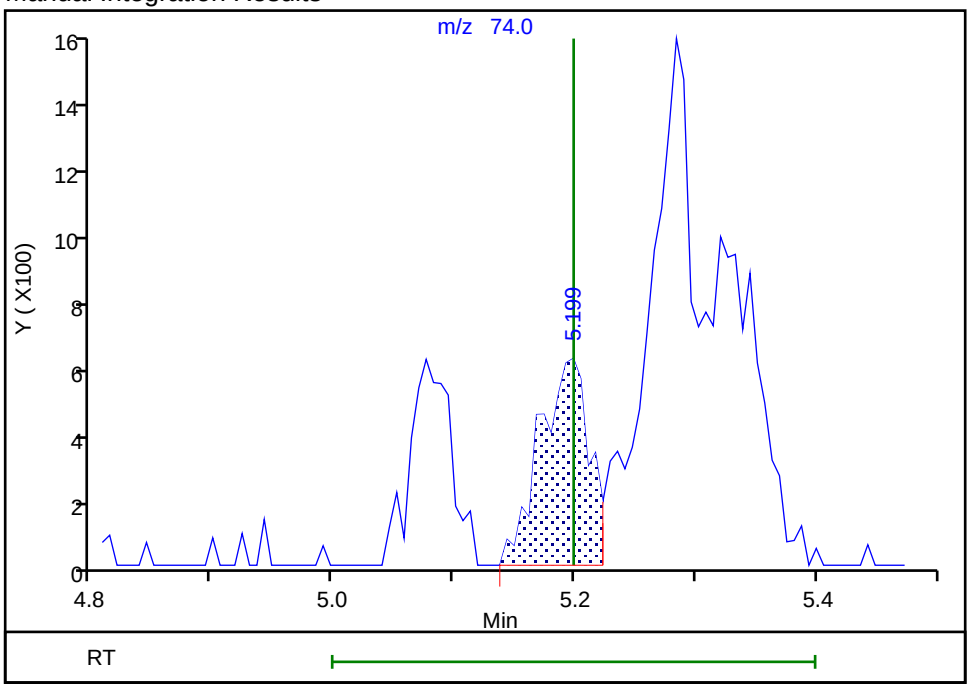
Processing Integration Results

RT: 5.08
Area: 1362
Amount: 75.811391
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 1798
Amount: 97.977820
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

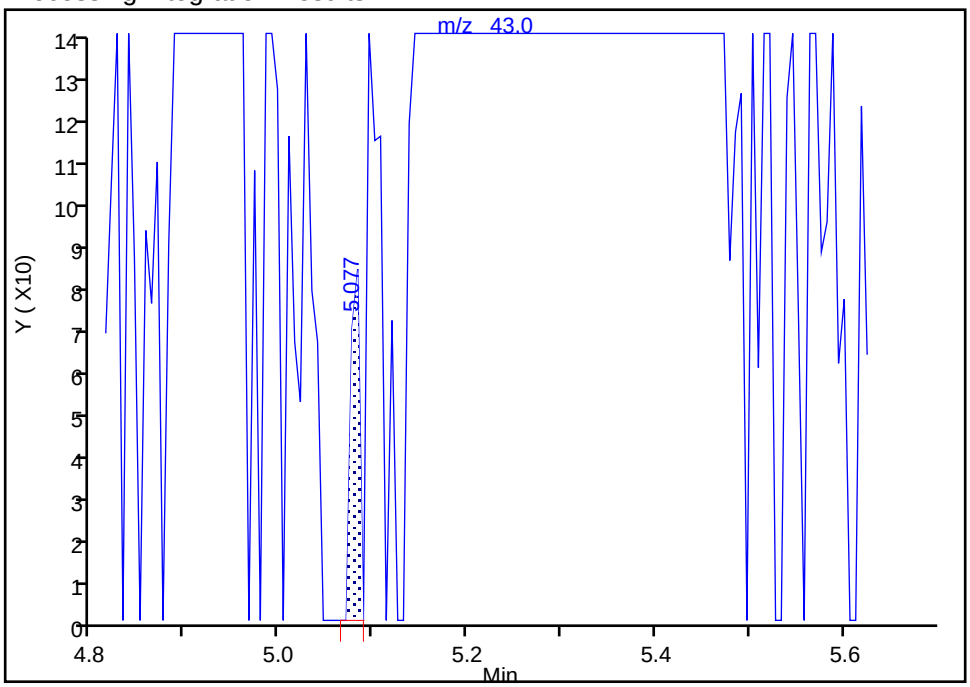
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

57 Isopropyl acetate, CAS: 108-21-4

Signal: 1

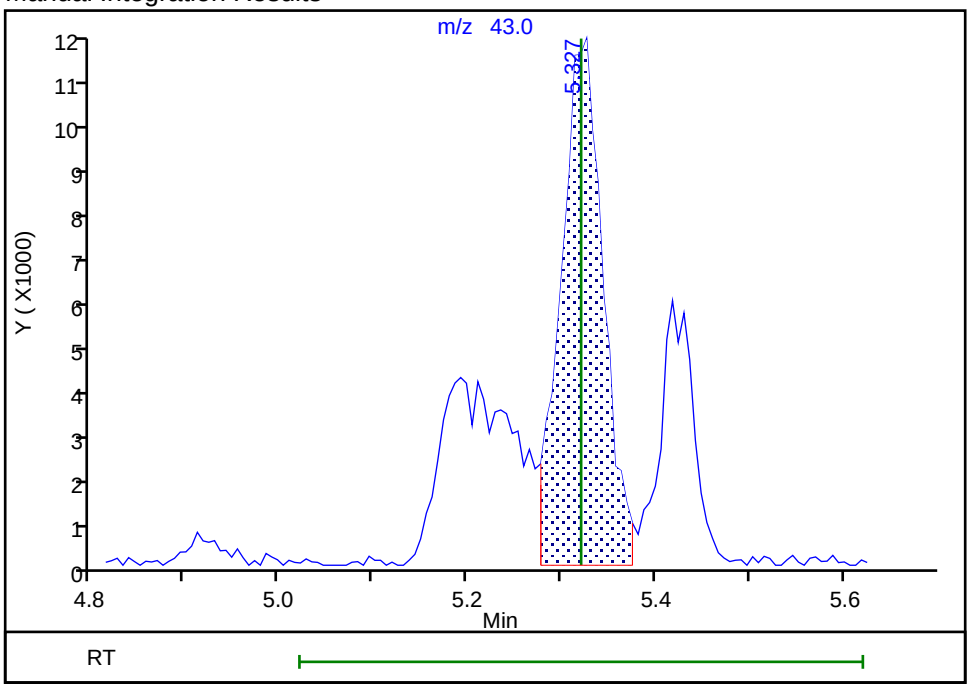
Processing Integration Results

RT: 5.08
Area: 55
Amount: 4.931305
Amount Units: ug/l



Manual Integration Results

RT: 5.33
Area: 37612
Amount: 4.620459
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:47:48
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

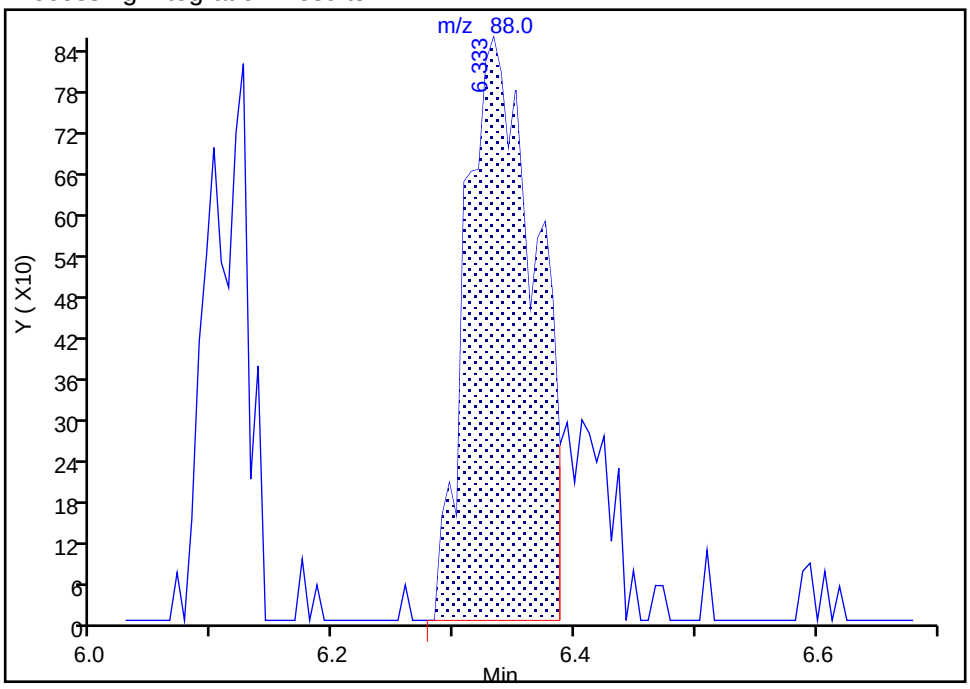
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86119.D
Injection Date: 06-Jul-2018 02:10:30 Instrument ID: CVOAMS9
Lims ID: STD5
Client ID:
Operator ID: ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

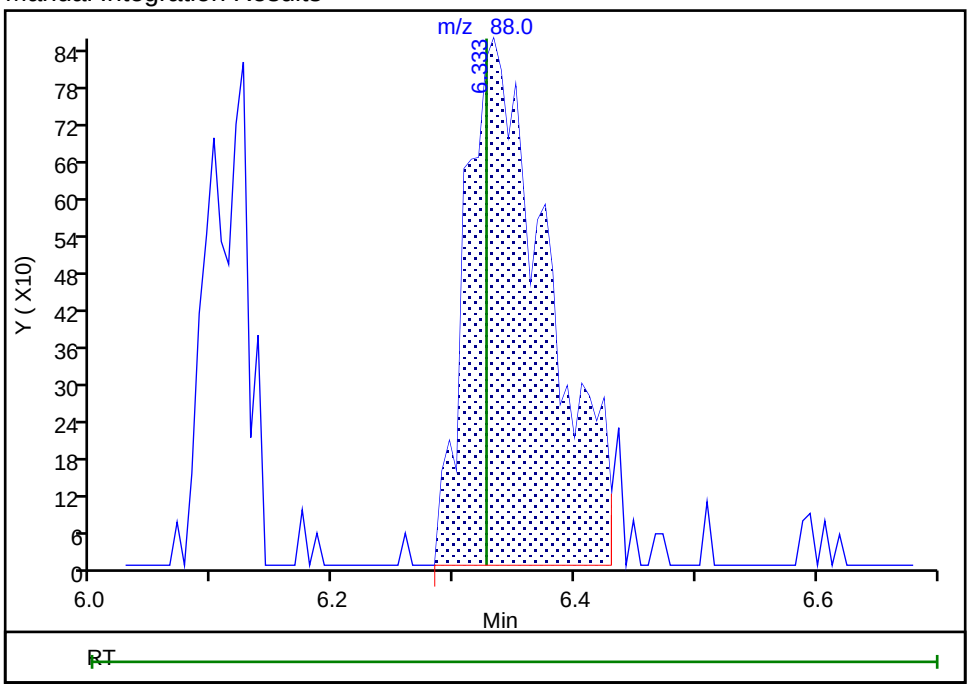
Processing Integration Results

RT: 6.33
Area: 3419
Amount: 81.458006
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 4033
Amount: 93.799684
Amount Units: ug/l



Reviewer: kluseys, 06-Jul-2018 18:45:51
Audit Action: Manually Integrated Audit Reason: Split Peak

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Lims ID: STD20
Client ID:
Sample Type: ICIS Calib Level: 3
Inject. Date: 06-Jul-2018 02:35:30 ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD20
Misc. Info.: 460-0074947-005
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:58:45 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:42:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	86	52418	20.0	20.7	
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	98	111998	20.0	21.3	
3 Chloromethane	50	1.822	1.822	0.000	100	83388	20.0	19.3	
4 Vinyl chloride	62	1.913	1.913	0.000	97	90381	20.0	20.4	
5 Butadiene	54	1.919	1.919	0.000	89	72182	20.0	20.4	
6 Bromomethane	94	2.218	2.218	0.000	98	81457	20.0	20.1	
7 Chloroethane	64	2.273	2.273	0.000	99	49348	20.0	20.6	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	86	149729	20.0	21.3	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	140559	20.0	21.1	
10 Pentane	72	2.504	2.504	0.000	94	17093	40.0	35.1	
11 Ethyl ether	59	2.699	2.699	0.000	90	39782	20.0	19.4	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	94	45609	20.0	20.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	81	71847	20.0	20.7	
12 Ethanol	46	2.754	2.754	0.000	61	11486	800.0	888.1	a
15 Acrolein	56	2.882	2.882	0.000	96	101383	300.0	302.8	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	96	66915	20.0	19.7	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	55	75863	20.0	20.3	
18 Acetone	43	3.004	3.004	0.000	87	75553	100.0	94.7	
19 Iodomethane	142	3.083	3.083	0.000	98	169207	20.0	20.6	
22 Isopropyl alcohol	45	3.108	3.108	0.000	26	44664	200.0	206.5	a
20 Carbon disulfide	76	3.120	3.120	0.000	99	218590	20.0	19.8	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	81	40344	20.0	20.4	
23 Methyl acetate	43	3.254	3.254	0.000	77	59759	40.0	36.7	
24 Cyclopentene	67	3.266	3.266	0.000	91	141480	20.0	21.3	
29 Acetonitrile	41	3.321	3.321	0.000	85	76843	200.0	189.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	84	73739	20.0	19.3	
* 25 TBA-d9 (IS)	65	3.376	3.376	0.000	0	315266	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	93	89019	200.0	190.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.000	94	197329	20.0	20.3	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	90	73612	20.0	20.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	94	181194	200.0	203.2	
32 Hexane	43	3.717	3.717	0.000	90	42552	20.0	20.4	
33 Isopropyl ether	45	3.925	3.925	0.000	92	154624	20.0	19.9	
35 Vinyl acetate	86	3.974	3.974	0.000	99	23821	40.0	39.0	
34 1,1-Dichloroethane	63	3.974	3.974	0.000	76	109284	20.0	20.2	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	60491	20.0	20.2	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	183248	20.0	20.1	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195356	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	88	35715	20.0	20.7	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	85	87227	20.0	20.0	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	34679	100.0	95.4	
41 Ethyl acetate	70	4.504	4.504	0.000	85	12416	40.0	42.7	
44 Methyl acrylate	55	4.559	4.559	0.000	98	41899	20.0	19.6	a
43 Propionitrile	54	4.644	4.644	0.000	97	74854	200.0	191.3	
45 Tetrahydrofuran	72	4.723	4.723	0.000	54	15777	40.0	37.8	
46 Chlorobromomethane	128	4.729	4.729	0.000	64	49578	20.0	20.2	
47 Methacrylonitrile	67	4.748	4.748	0.000	88	225394	200.0	201.9	
48 Chloroform	83	4.778	4.778	0.000	98	129987	20.0	19.7	
49 Cyclohexane	84	4.925	4.925	0.000	84	101855	20.0	21.1	
50 1,1,1-Trichloroethane	97	4.937	4.937	0.000	96	130186	20.0	20.6	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	183890	50.0	51.0	
52 Carbon tetrachloride	117	5.059	5.059	0.000	97	115933	20.0	20.7	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	91697	20.0	20.5	
56 Isobutyl alcohol	74	5.199	5.199	0.000	93	8917	500.0	497.1	a
54 Benzene	78	5.284	5.284	0.000	95	263486	20.0	20.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	160739	50.0	48.0	
57 Isopropyl acetate	43	5.321	5.321	0.000	95	162815	20.0	19.5	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	95	66196	20.0	20.2	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	89552	20.0	19.1	
60 n-Heptane	57	5.424	5.424	0.000	83	50453	20.0	20.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	524058	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	83	45046	500.0	471.9	
63 Trichloroethene	95	5.930	5.930	0.000	93	76997	20.0	20.7	
65 Methylcyclohexane	83	6.058	6.058	0.000	93	132704	20.0	21.7	
64 Ethyl acrylate	56	6.065	6.065	0.000	93	37954	20.0	20.1	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	87	55073	20.0	19.3	
* 67 1,4-Dioxane-d8	96	6.272	6.272	0.000	0	28660	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	76	72070	40.0	40.7	
70 n-Propyl acetate	43	6.327	6.327	0.000	96	62119	20.0	19.1	
69 1,4-Dioxane	88	6.327	6.327	0.000	29	18123	400.0	424.5	a
71 Dibromomethane	93	6.351	6.351	0.000	90	46676	20.0	19.3	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	92702	20.0	19.8	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	29805	20.0	19.6	
74 2-Nitropropane	41	6.833	6.833	0.000	85	21432	40.0	35.9	
75 Epichlorohydrin	57	6.942	6.942	0.000	98	101973	400.0	397.2	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	96016	20.0	19.3	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	240422	100.0	100.7	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	600096	50.0	49.9	
79 Toluene	91	7.333	7.333	0.000	93	301255	20.0	19.9	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	86857	20.0	19.2	
81 Ethyl methacrylate	69	7.692	7.692	0.000	84	70228	20.0	19.5	
82 1,1,2-Trichloroethane	83	7.894	7.894	0.000	94	46261	20.0	19.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	101618	20.0	20.4	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	82201	20.0	19.2	
85 2-Hexanone	43	8.156	8.156	0.000	93	151851	100.0	99.4	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	67025	20.0	19.4	
87 Chlorodibromomethane	129	8.345	8.345	0.000	97	70673	20.0	19.2	
88 Ethylene Dibromide	107	8.509	8.509	0.000	97	65649	20.0	20.1	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	82	453009	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	99	214946	20.0	20.1	
92 Ethylbenzene	106	9.186	9.186	0.000	97	117941	20.0	20.4	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	93	88009	20.0	19.9	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	142588	20.0	20.1	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	43582	20.0	20.3	
95 o-Xylene	106	9.802	9.802	0.000	95	149451	20.0	20.1	
96 Styrene	104	9.832	9.832	0.000	97	234499	20.0	20.6	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	80880	20.0	19.2	
98 Bromoform	173	10.070	10.070	0.000	98	46754	20.0	18.8	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	403055	20.0	20.9	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	250725	50.0	51.5	
101 Bromobenzene	156	10.545	10.545	0.000	81	114264	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	81714	20.0	19.8	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	433409	20.0	20.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	25010	20.0	19.3	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	89	18515	20.0	19.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	296512	20.0	19.9	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	393601	20.0	20.2	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	345257	20.0	20.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	248210	20.0	19.9	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	95827	20.0	19.9	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	288890	20.0	19.9	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	359787	20.0	20.2	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	443178	20.0	20.3	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	414905	20.0	20.3	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	99	224210	20.0	20.4	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	91	297066	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	221000	20.0	19.8	
118 Benzyl chloride	91	11.655	11.655	0.000	99	173003	20.0	20.0	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	385458	20.0	20.2	
120 p-Diethylbenzene	119	11.759	11.759	0.000	96	253230	20.0	21.4	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	196798	20.0	20.7	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	224089	20.0	20.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	414331	20.0	20.3	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	90	15652	20.0	18.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	209633	20.0	20.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	197711	20.0	20.4	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	97	96713	20.0	20.4	
128 Naphthalene	128	13.319	13.319	0.000	99	408897	20.0	20.2	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	97	193378	20.0	20.7	
S 130 1,2-Dichloroethene, Total	100				0		40.0	40.0	
S 131 Xylenes, Total	100				0		40.0	40.2	
S 132 Total BTEX	1				0		100.0	100.7	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
GASES Li_00267	Amount Added:	2.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

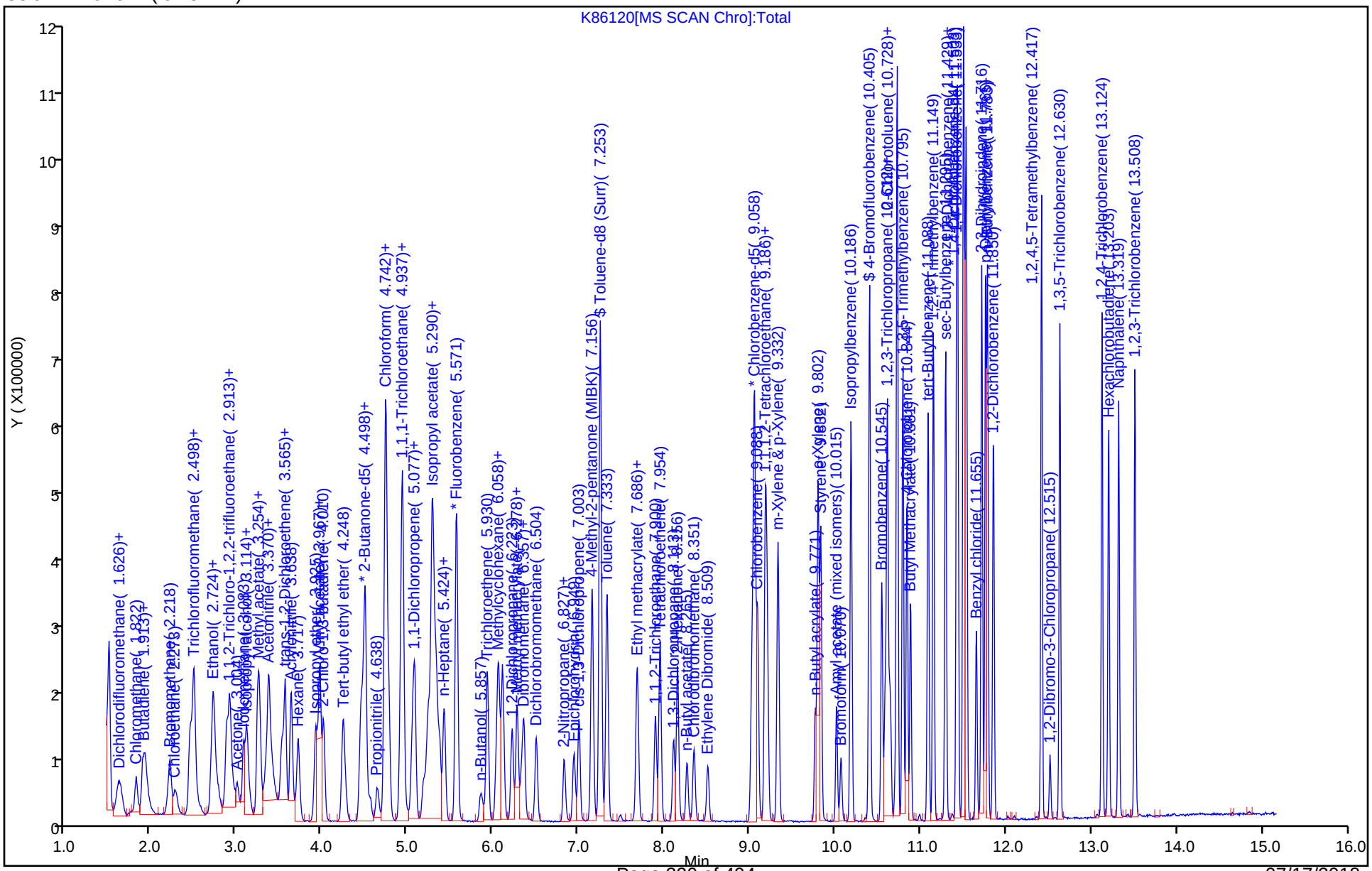
Report Date: 06-Jul-2018 18:58:48 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D

Injection Date:	06-Jul-2018 02:35:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD20			Worklist Smp#:	5
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	4
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

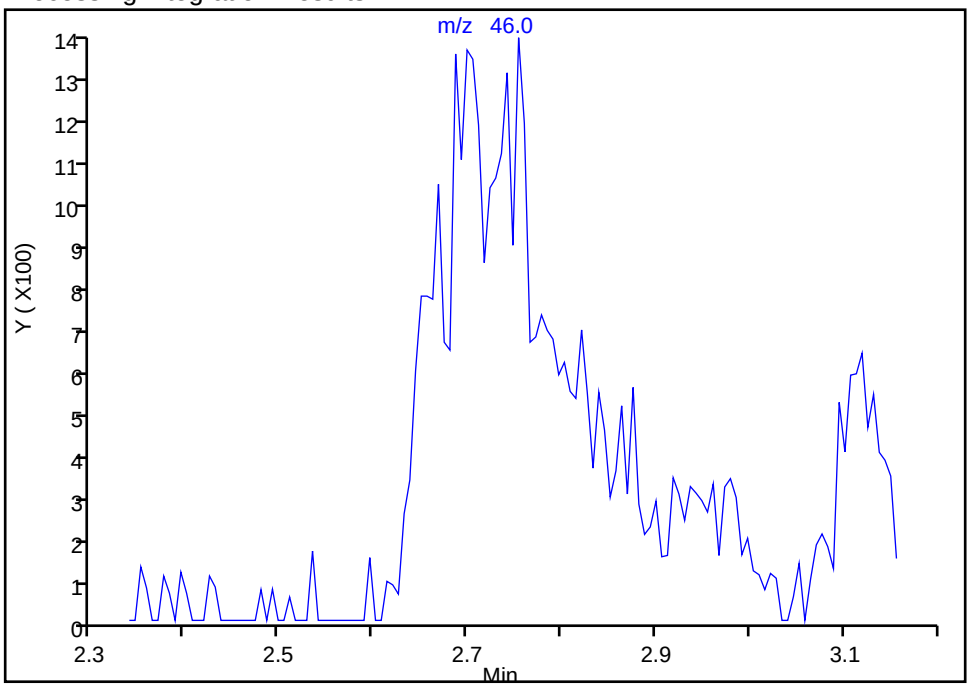
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

12 Ethanol, CAS: 64-17-5

Signal: 1

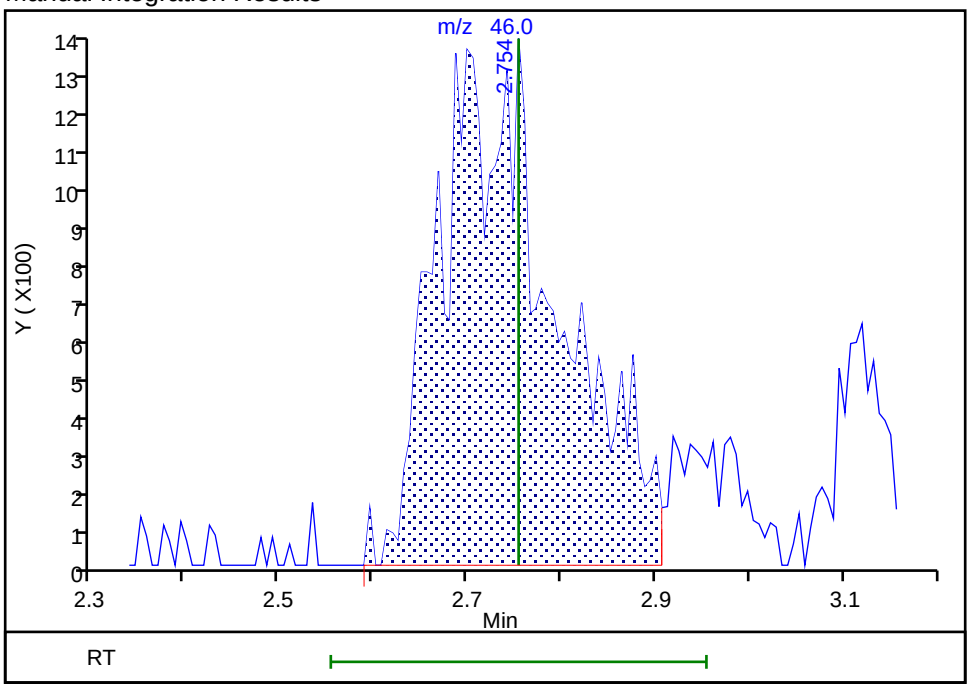
Not Detected
Expected RT: 2.75

Processing Integration Results



Manual Integration Results

RT: 2.75
Area: 11486
Amount: 888.1042
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:39:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

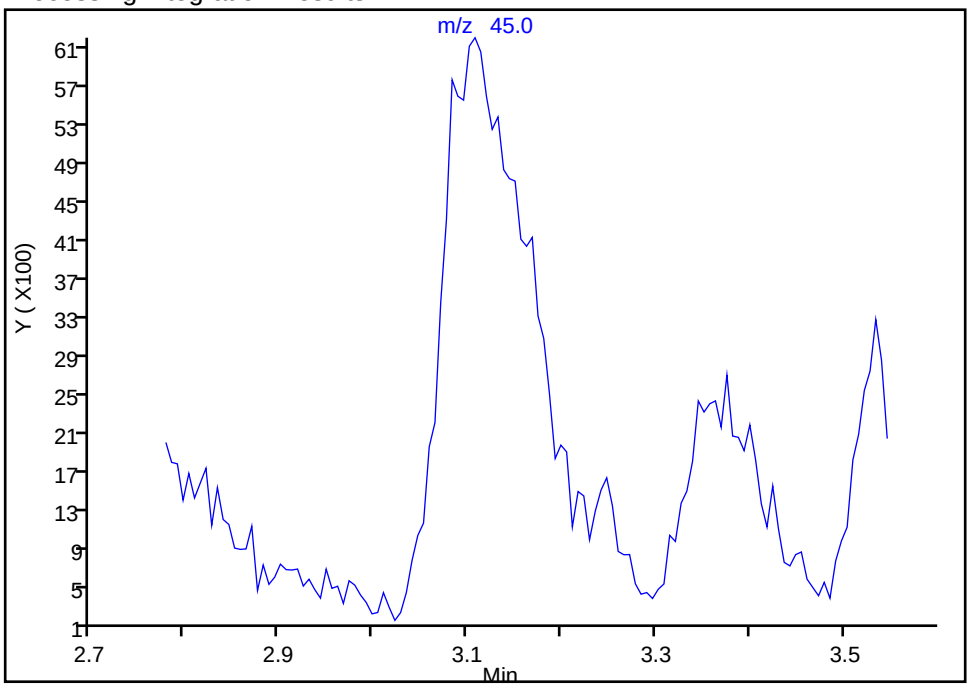
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

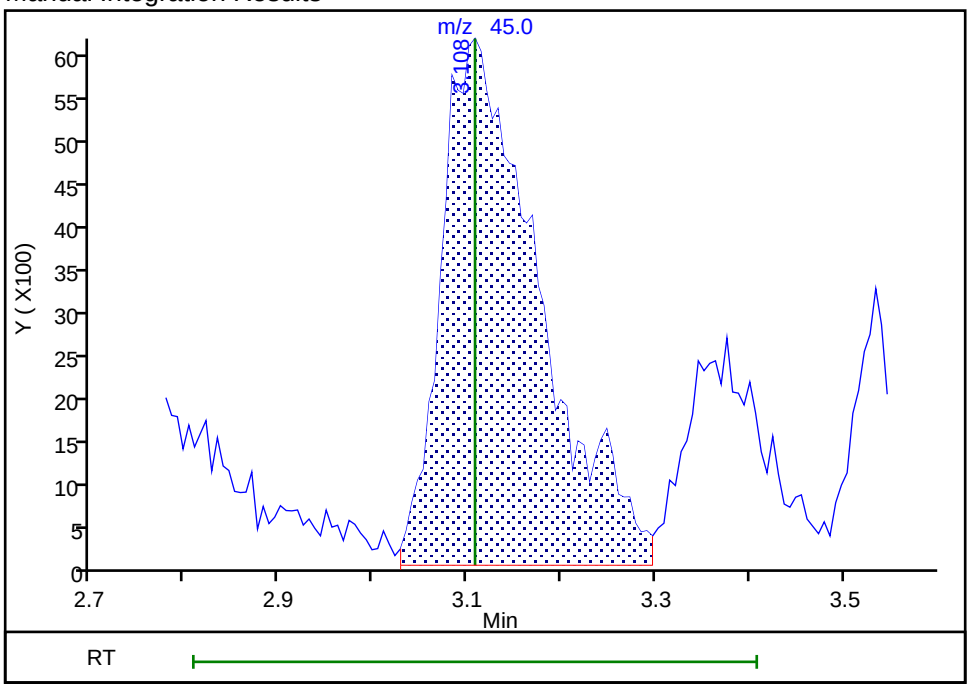
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.11
Area: 44664
Amount: 206.4947
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:08
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

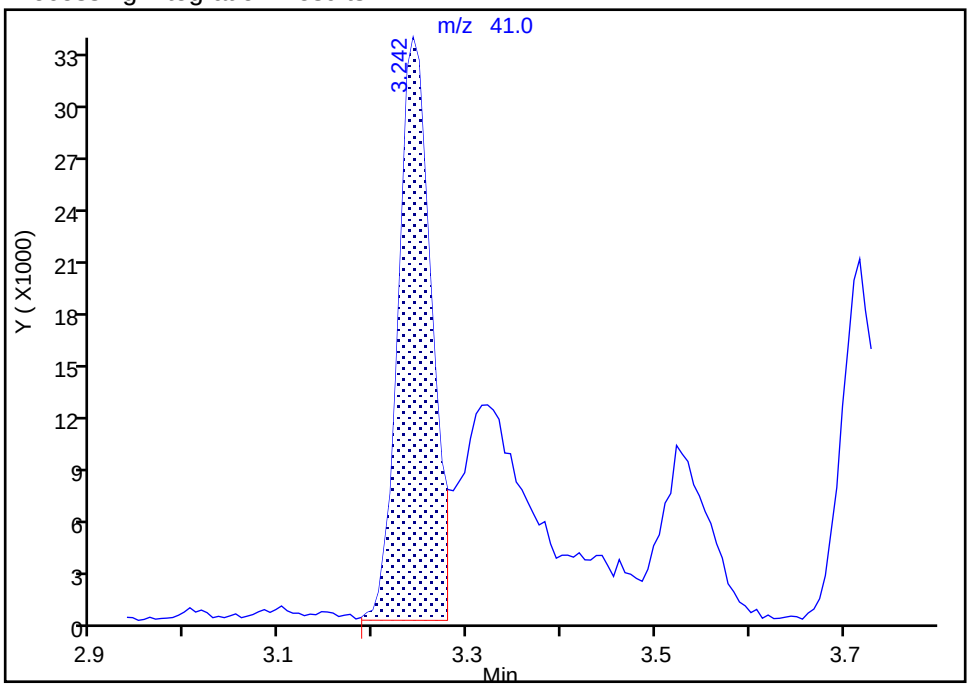
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

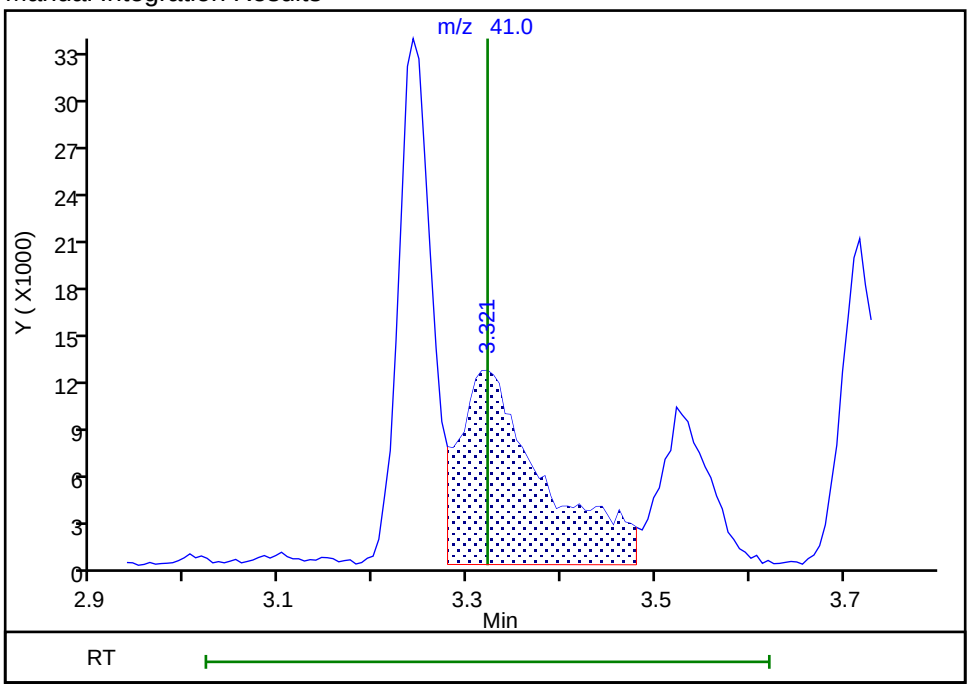
Processing Integration Results

RT: 3.24
Area: 81002
Amount: 189.9684
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 76843
Amount: 189.0188
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

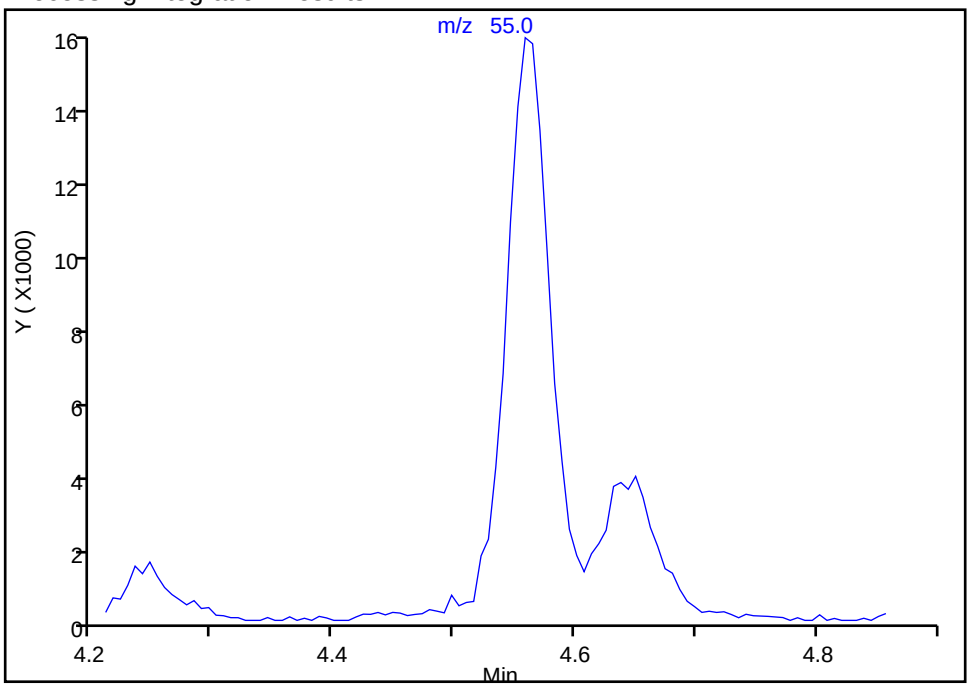
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

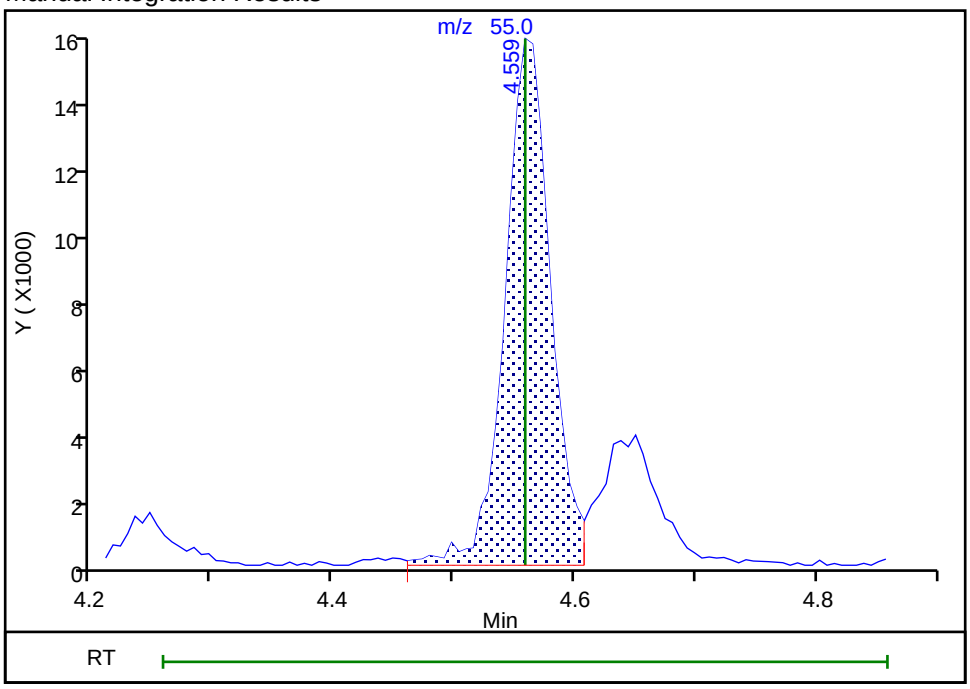
Not Detected
Expected RT: 4.56

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 41899
Amount: 19.575586
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:40:33
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

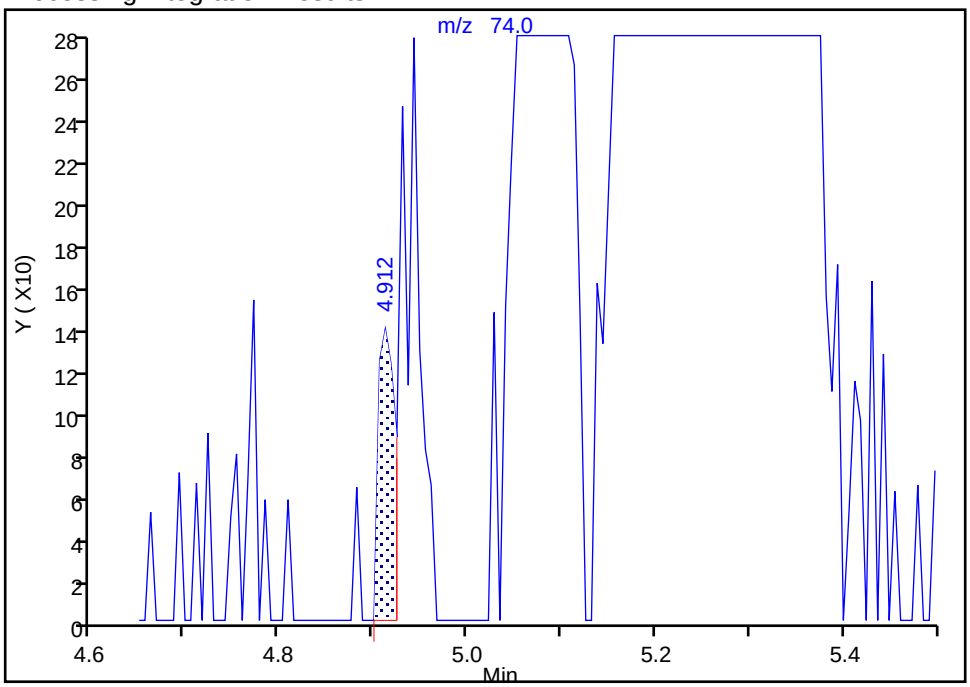
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

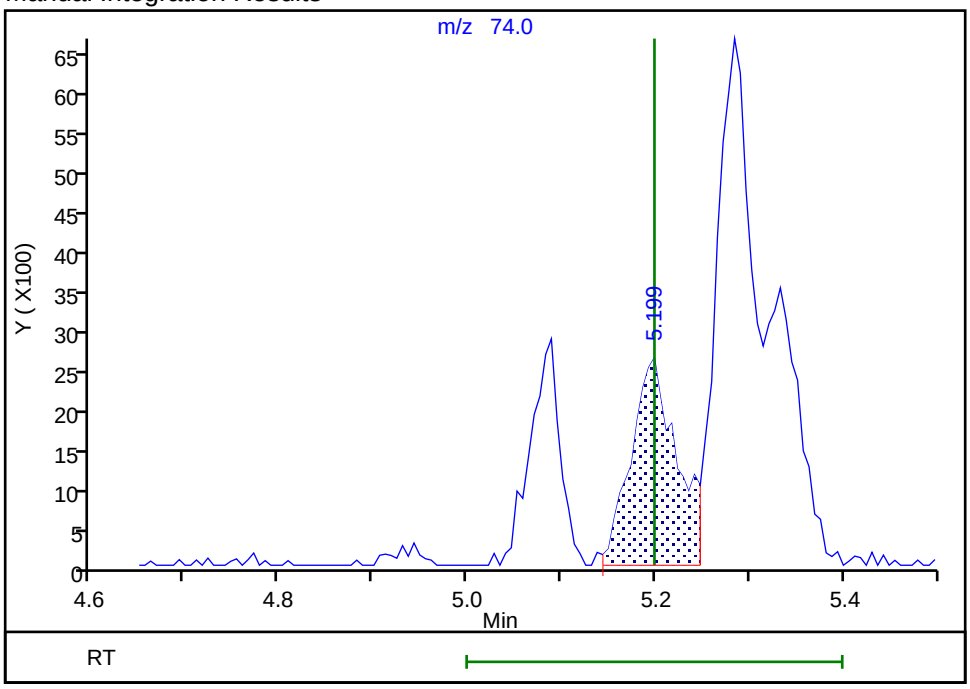
Processing Integration Results

RT: 4.91
Area: 174
Amount: 22.016312
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 8917
Amount: 497.1131
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:42
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

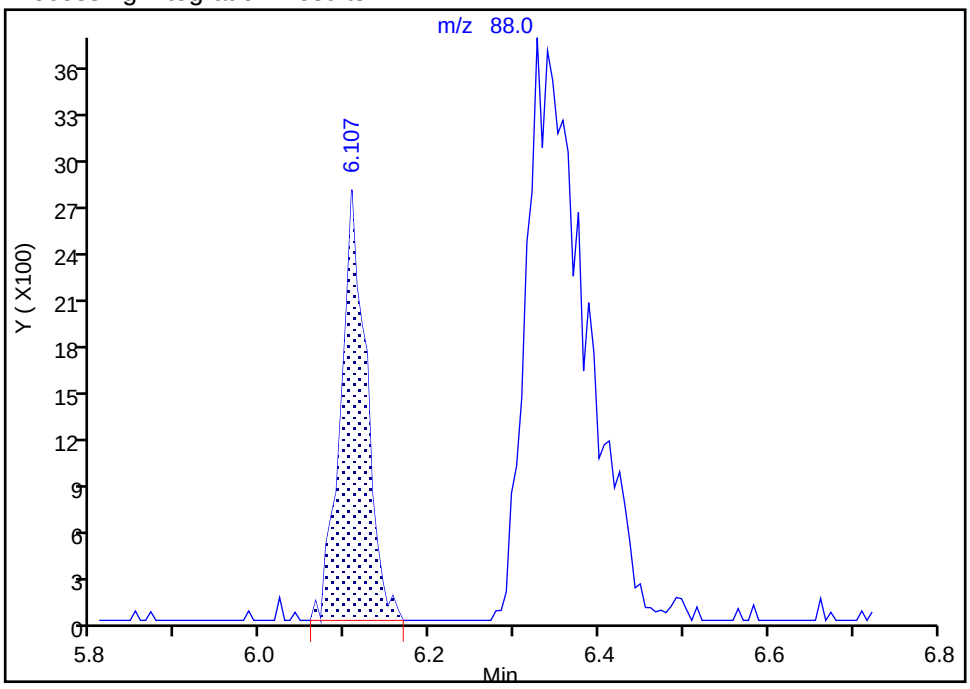
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86120.D
Injection Date: 06-Jul-2018 02:35:30 Instrument ID: CVOAMS9
Lims ID: STD20
Client ID:
Operator ID: ALS Bottle#: 4 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

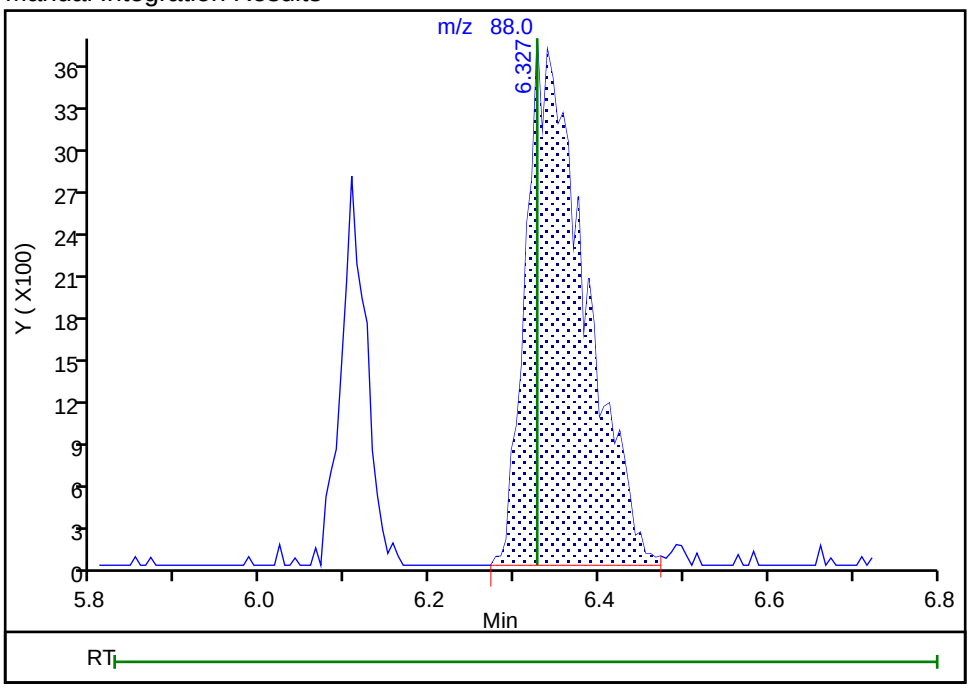
Processing Integration Results

RT: 6.11
Area: 5860
Amount: 190.8679
Amount Units: ug/l



Manual Integration Results

RT: 6.33
Area: 18123
Amount: 424.4616
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:41:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Lims ID: STD50
Client ID:
Sample Type: IC Calib Level: 4
Inject. Date: 06-Jul-2018 02:59:30 ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD50
Misc. Info.: 460-0074947-006
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:00 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:44:27

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	130419	50.0	50.6	a
2 Dichlorodifluoromethane	85	1.639	1.639	0.000	99	281125	50.0	52.4	
3 Chloromethane	50	1.822	1.822	0.000	99	209589	50.0	47.5	
4 Vinyl chloride	62	1.913	1.913	0.000	98	229225	50.0	50.6	
5 Butadiene	54	1.919	1.919	0.000	74	181610	50.0	50.4	
6 Bromomethane	94	2.212	2.218	-0.006	97	204558	50.0	49.4	
7 Chloroethane	64	2.279	2.273	0.006	100	125970	50.0	51.6	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	96	366071	50.0	53.8	
8 Trichlorofluoromethane	101	2.456	2.462	-0.006	87	383407	50.0	53.5	
10 Pentane	72	2.492	2.504	-0.012	95	46935	100.0	99.6	
11 Ethyl ether	59	2.700	2.699	0.001	93	100630	50.0	48.1	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	96	117038	50.0	52.1	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	84	190654	50.0	54.0	
12 Ethanol	46	2.700	2.754	-0.054	61	28493	2000.0	2277.2	
15 Acrolein	56	2.882	2.882	0.000	98	132647	400.0	409.4	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	96	166446	50.0	47.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.913	2.925	-0.012	87	202738	50.0	53.1	
18 Acetone	43	3.004	3.004	0.000	87	176068	250.0	221.0	
19 Iodomethane	142	3.077	3.083	-0.006	98	419457	50.0	50.2	
22 Isopropyl alcohol	45	3.090	3.108	-0.018	26	103170	500.0	493.0	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	556272	50.0	49.4	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	89	102616	50.0	50.9	
23 Methyl acetate	43	3.242	3.254	-0.012	97	149700	100.0	95.0	
24 Cyclopentene	67	3.260	3.266	-0.006	94	356651	50.0	52.7	
29 Acetonitrile	41	3.309	3.321	-0.012	95	182117	500.0	463.0	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	184920	50.0	47.4	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	305011	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	94	211033	500.0	466.4	
28 Methyl tert-butyl ether	73	3.529	3.529	0.001	94	482529	50.0	48.7	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	189715	50.0	50.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	92	439324	500.0	483.0	
32 Hexane	43	3.712	3.717	-0.005	89	104407	50.0	49.2	
33 Isopropyl ether	45	3.925	3.925	0.000	94	391625	50.0	49.5	
34 1,1-Dichloroethane	63	3.968	3.974	-0.006	75	269363	50.0	48.8	
35 Vinyl acetate	86	3.974	3.974	0.000	99	57351	100.0	97.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	91	160745	50.0	52.5	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	459151	50.0	49.5	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	195019	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.473	0.007	92	89356	50.0	50.8	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	217144	50.0	48.8	
41 Ethyl acetate	70	4.504	4.504	0.000	93	29864	100.0	104.9	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	83071	250.0	228.8	
44 Methyl acrylate	55	4.559	4.559	0.000	98	103291	50.0	47.3	
43 Propionitrile	54	4.644	4.644	0.000	97	183361	500.0	484.3	
45 Tetrahydrofuran	72	4.730	4.723	0.007	86	40304	100.0	96.8	
46 Chlorobromomethane	128	4.730	4.729	0.001	68	122405	50.0	48.9	
47 Methacrylonitrile	67	4.742	4.748	-0.006	88	562513	500.0	494.0	
48 Chloroform	83	4.778	4.778	0.000	99	333917	50.0	49.7	
49 Cyclohexane	84	4.919	4.925	-0.006	86	263540	50.0	53.5	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	98	178148	50.0	48.4	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	96	327534	50.0	50.9	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	97	294074	50.0	51.5	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	96	230608	50.0	50.5	
56 Isobutyl alcohol	74	5.193	5.199	-0.006	95	19987	1250.0	1151.7	a
54 Benzene	78	5.284	5.284	0.000	96	665118	50.0	49.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.296	0.001	0	165511	50.0	48.4	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	413420	50.0	48.6	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	167390	50.0	50.1	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	222791	50.0	46.6	
60 n-Heptane	57	5.425	5.424	0.001	84	127334	50.0	51.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	534426	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	87	110752	1250.0	1199.3	
63 Trichloroethene	95	5.931	5.930	0.001	94	192736	50.0	50.8	
65 Methylcyclohexane	83	6.059	6.058	0.001	93	331651	50.0	53.2	
64 Ethyl acrylate	56	6.053	6.065	-0.013	98	91463	50.0	47.5	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	89	142919	50.0	49.2	
* 67 1,4-Dioxane-d8	96	6.266	6.272	-0.006	0	29939	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	80	180614	100.0	99.9	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	41357	1000.0	927.2	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	155324	50.0	46.8	
71 Dibromomethane	93	6.357	6.351	0.006	88	116161	50.0	47.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	230925	50.0	48.5	
73 2-Chloroethyl vinyl ether	63	6.827	6.827	0.000	79	75700	50.0	48.8	
74 2-Nitropropane	41	6.833	6.833	0.000	83	51826	100.0	85.2	
75 Epichlorohydrin	57	6.943	6.942	0.001	99	256352	1000.0	1000.2	
76 cis-1,3-Dichloropropene	75	7.004	7.003	0.001	90	247393	50.0	48.4	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	93	599225	250.0	251.4	
$ 78 Toluene-d8 (Surr)	98	7.254	7.253	0.001	99	618788	50.0	50.0	
79 Toluene	91	7.333	7.333	0.000	93	769909	50.0	49.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	224848	50.0	48.4	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	179539	50.0	48.5	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	119023	50.0	49.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.955	7.954	0.001	96	260413	50.0	50.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	210429	50.0	47.9	
85 2-Hexanone	43	8.156	8.156	0.000	94	376353	250.0	246.8	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	166473	50.0	46.8	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	185004	50.0	48.9	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	163141	50.0	48.6	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	465894	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	99	545861	50.0	49.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	299865	50.0	50.5	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	226767	50.0	49.7	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	368302	50.0	50.5	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	110767	50.0	50.2	
95 o-Xylene	106	9.802	9.802	0.000	95	386379	50.0	50.4	
96 Styrene	104	9.832	9.832	0.000	97	604297	50.0	51.6	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	93	207413	50.0	49.7	
98 Bromoform	173	10.070	10.070	0.000	98	120501	50.0	47.1	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	1036812	50.0	52.2	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	246914	50.0	49.3	
101 Bromobenzene	156	10.546	10.545	0.001	81	285875	50.0	49.8	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	96	199535	50.0	48.8	
103 N-Propylbenzene	91	10.613	10.612	0.001	100	1109900	50.0	52.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	64414	50.0	50.2	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	93	45136	50.0	47.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	1006783	50.0	52.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	761014	50.0	51.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	882629	50.0	52.2	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	633538	50.0	51.3	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	244299	50.0	51.1	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	764303	50.0	53.2	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	914193	50.0	51.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	1151652	50.0	53.2	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	1068622	50.0	52.8	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	99	554819	50.0	50.9	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	294521	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	548468	50.0	49.7	
118 Benzyl chloride	91	11.655	11.655	0.000	100	427347	50.0	49.7	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	969203	50.0	51.4	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	622855	50.0	53.2	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	500935	50.0	53.1	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	560102	50.0	50.7	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	1072321	50.0	52.9	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	89	38675	50.0	45.9	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	516732	50.0	51.2	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	490747	50.0	51.1	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	97	248504	50.0	52.9	
128 Naphthalene	128	13.319	13.319	0.000	99	1007107	50.0	50.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	471447	50.0	50.9	
S 130 1,2-Dichloroethene, Total	100				0		100.0	99.3	
S 131 Xylenes, Total	100				0		100.0	100.9	
S 132 Total BTEX	1				0		250.0	250.5	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
GASES Li_00267	Amount Added:	5.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	5.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

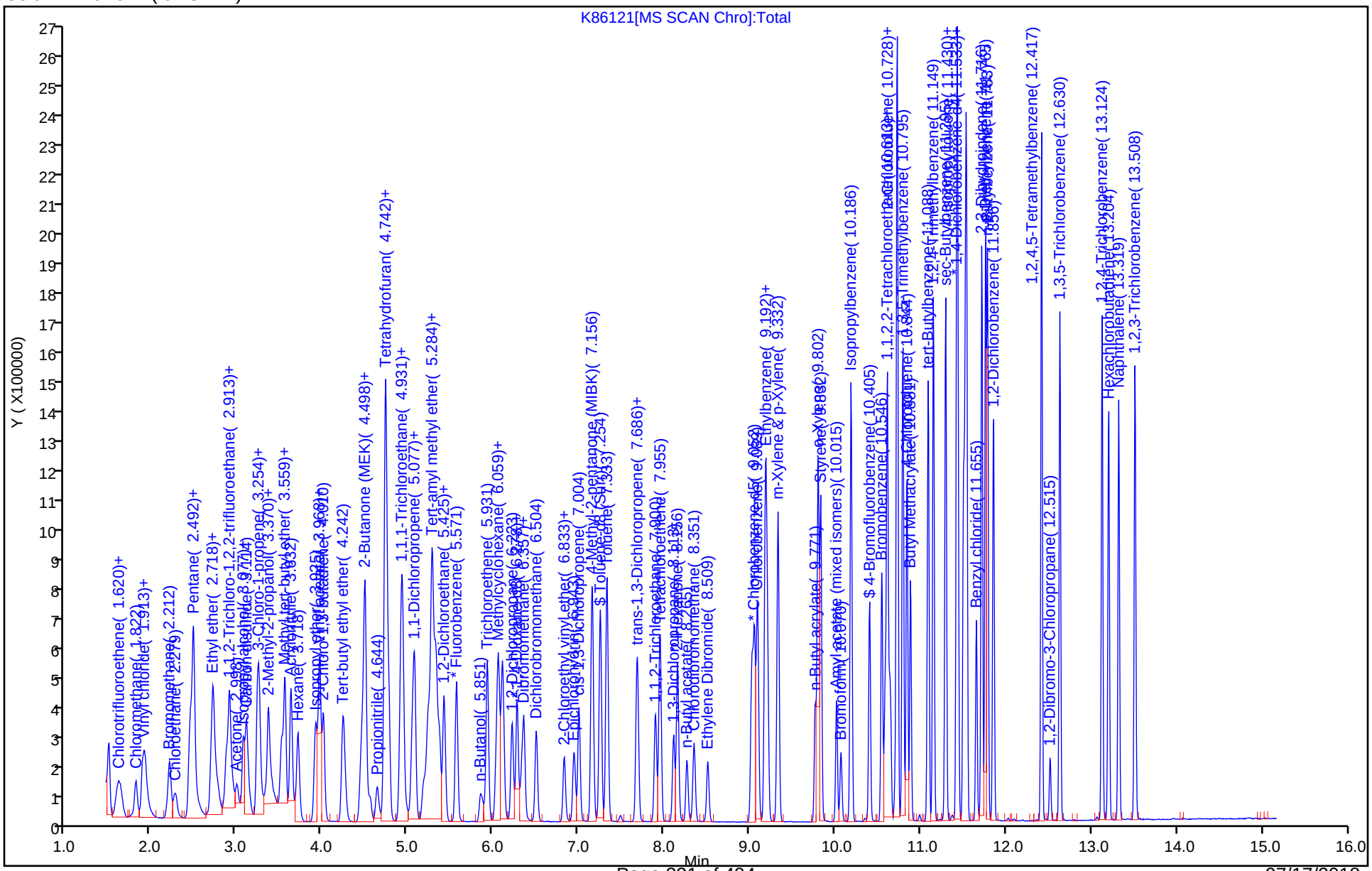
Report Date: 06-Jul-2018 18:59:02 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D

Injection Date:	06-Jul-2018 02:59:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD50			Worklist Smp#:	6
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	5
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

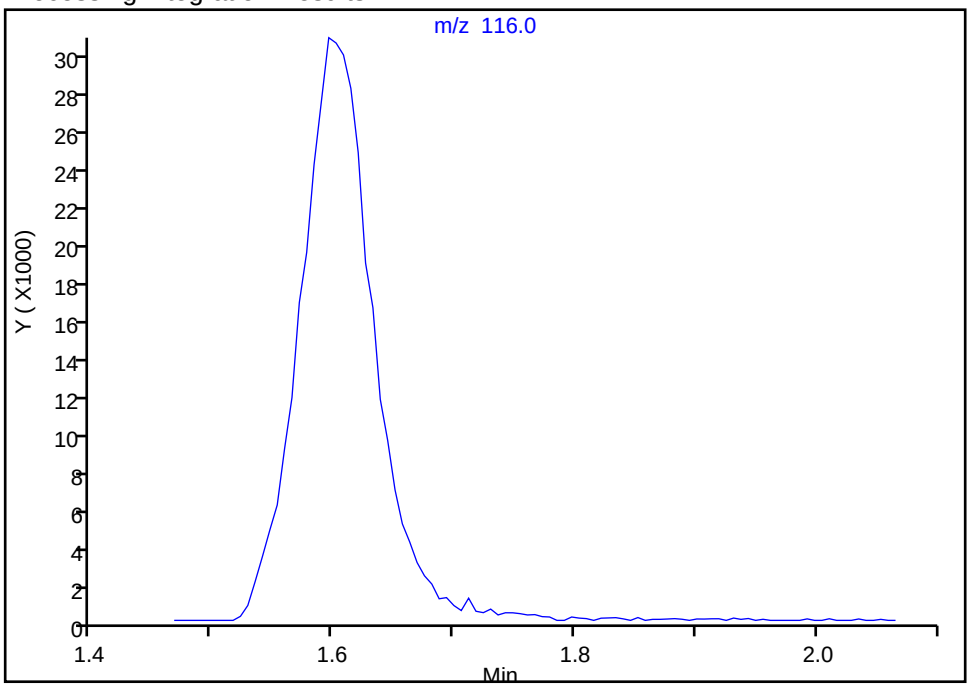
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

1 Chlorotrifluoroethene, CAS: 79-38-9

Signal: 1

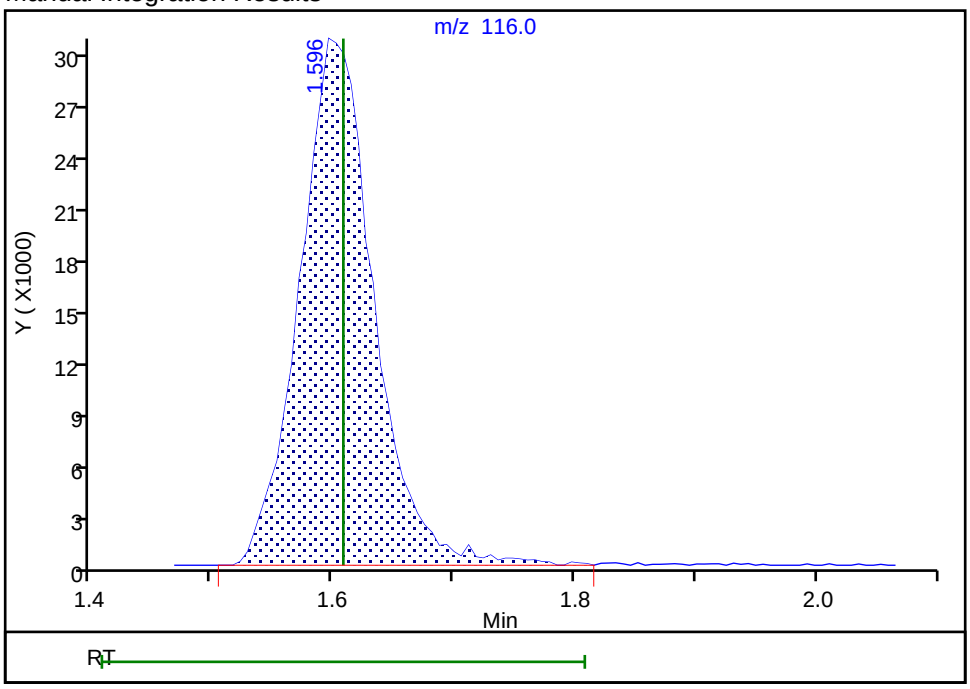
Not Detected
Expected RT: 1.61

Processing Integration Results



Manual Integration Results

RT: 1.60
Area: 130419
Amount: 50.625555
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:42:47
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

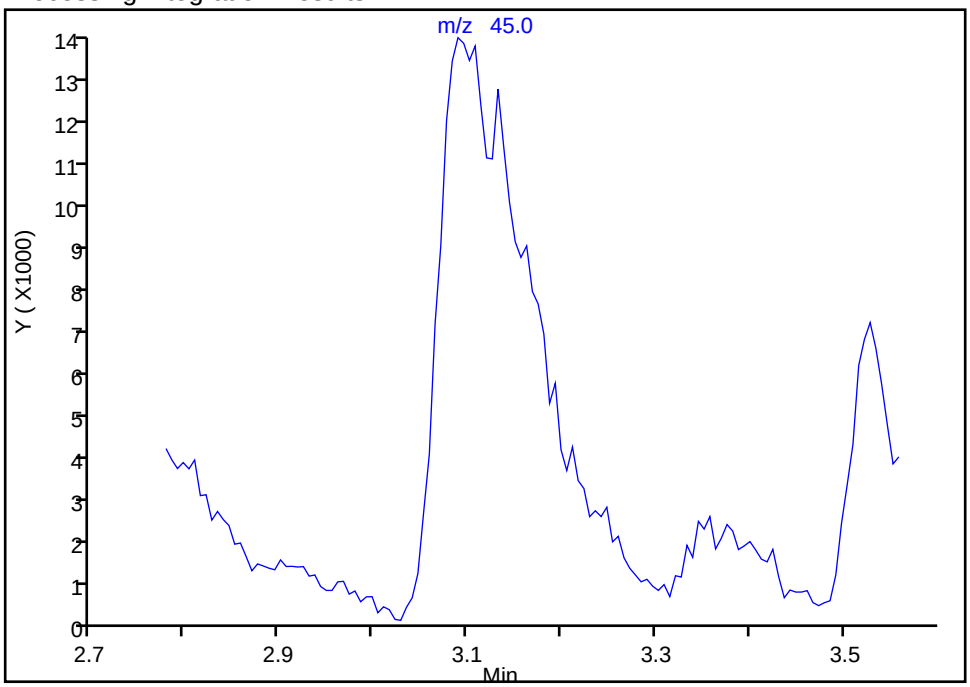
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

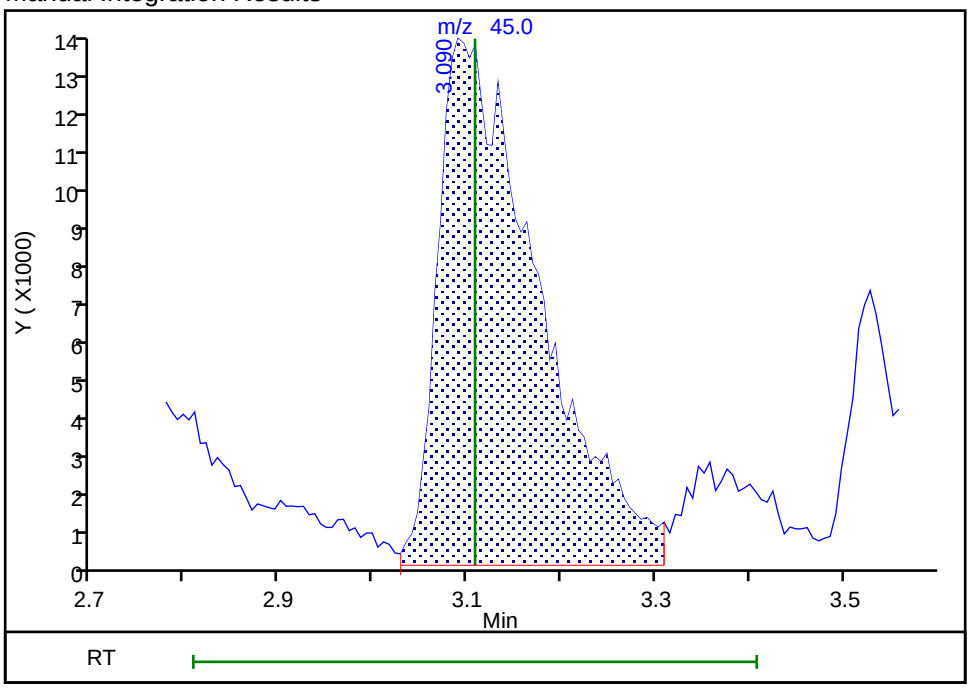
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.09
Area: 103170
Amount: 493.0222
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:16
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

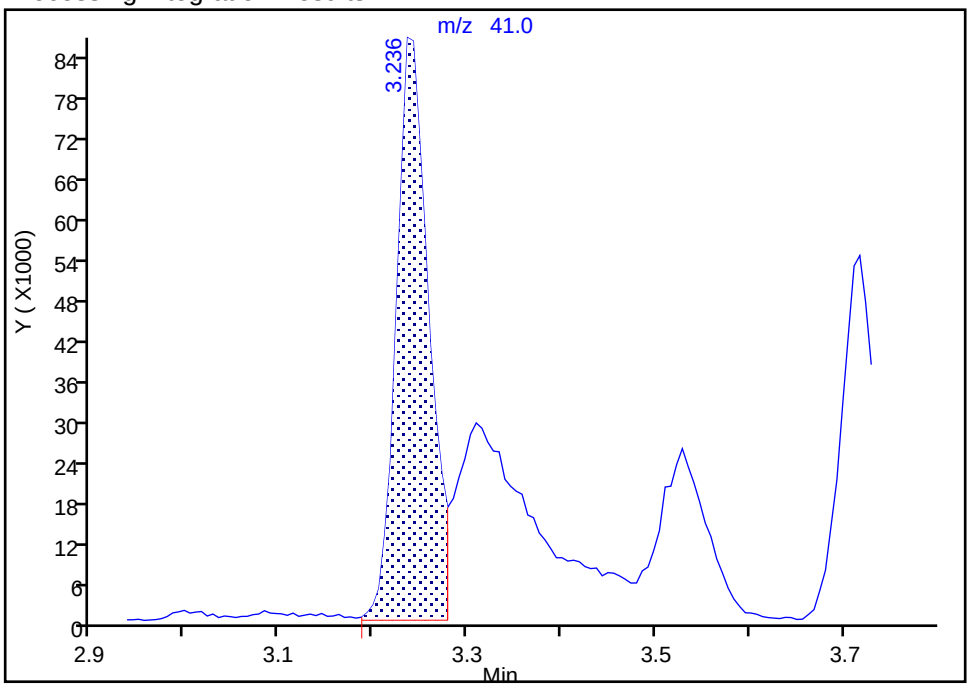
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

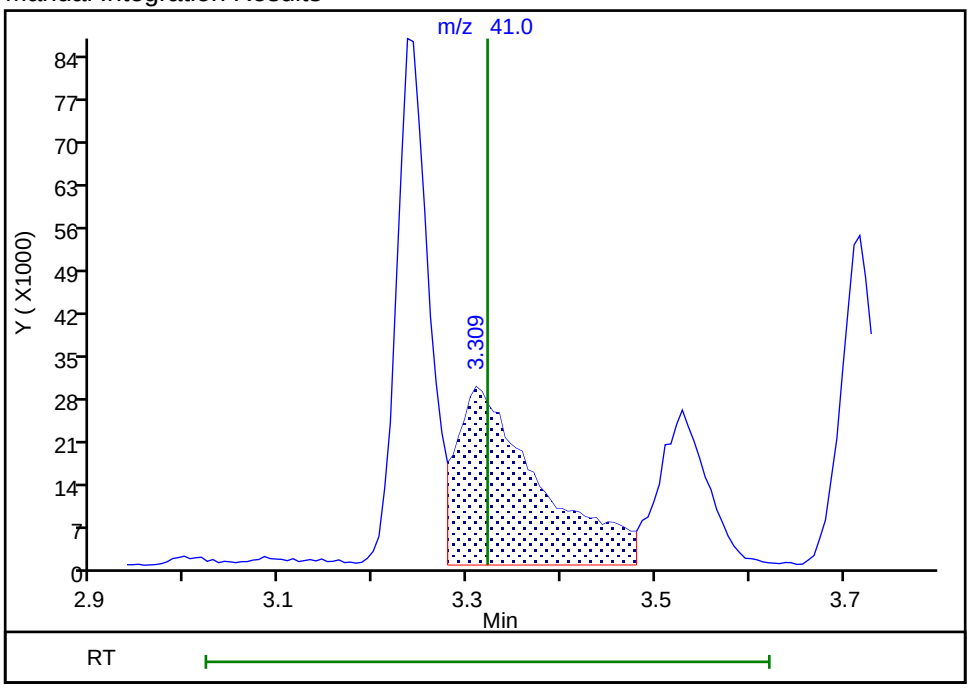
Processing Integration Results

RT: 3.24
Area: 207983
Amount: 510.3906
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 182117
Amount: 463.0340
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:26
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

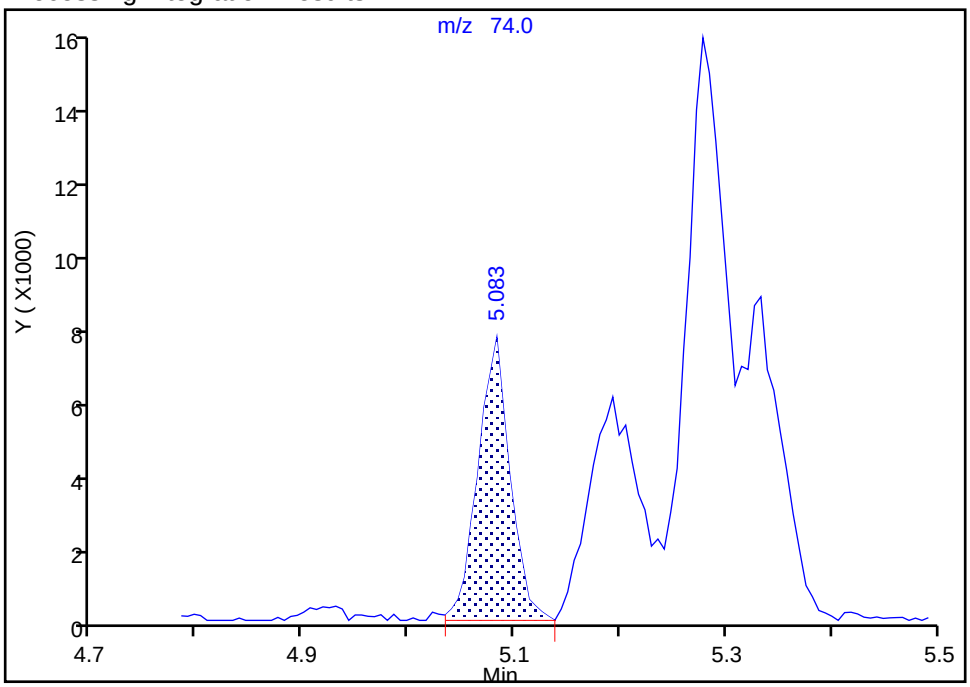
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86121.D
Injection Date: 06-Jul-2018 02:59:30 Instrument ID: CVOAMS9
Lims ID: STD50
Client ID:
Operator ID: ALS Bottle#: 5 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

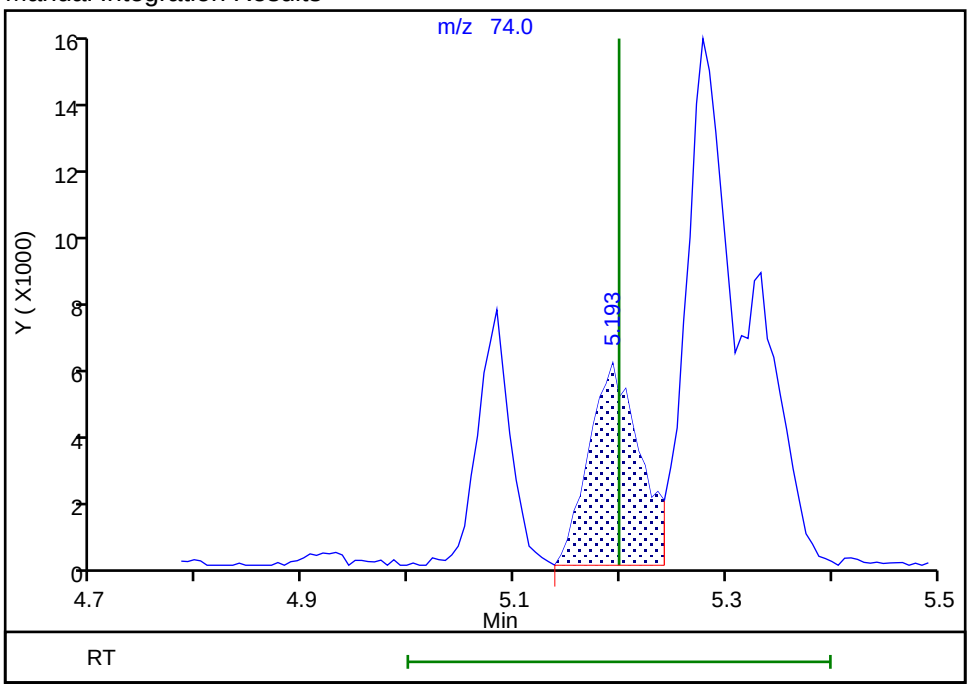
Processing Integration Results

RT: 5.08
Area: 15749
Amount: 1241.8710
Amount Units: ug/l



Manual Integration Results

RT: 5.19
Area: 19987
Amount: 1151.7168
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:43:46
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Lims ID: STD200
Client ID:
Sample Type: IC Calib Level: 5
Inject. Date: 06-Jul-2018 03:23:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD200
Misc. Info.: 460-0074947-007
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:13 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 03:57:11

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.608	-0.012	86	607536	200.0	222.3	
2 Dichlorodifluoromethane	85	1.632	1.639	-0.007	99	1286845	200.0	226.2	
3 Chloromethane	50	1.821	1.822	-0.001	99	1010119	200.0	215.9	
4 Vinyl chloride	62	1.907	1.913	-0.006	98	1044128	200.0	217.3	
5 Butadiene	54	1.919	1.919	0.000	95	833795	200.0	218.3	
6 Bromomethane	94	2.212	2.218	-0.006	99	902516	200.0	205.5	
7 Chloroethane	64	2.279	2.273	0.006	100	549048	200.0	211.8	
8 Trichlorofluoromethane	101	2.455	2.462	-0.007	98	1674031	200.0	220.0	
9 Dichlorofluoromethane	67	2.461	2.462	-0.001	98	1599349	200.0	221.6	
10 Pentane	72	2.492	2.504	-0.012	96	227930	400.0	453.0	
11 Ethyl ether	59	2.693	2.699	-0.006	92	420279	200.0	189.5	
13 2-Methyl-1,3-butadiene	53	2.718	2.724	-0.006	94	468066	200.0	196.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.748	-0.006	83	777768	200.0	207.5	
12 Ethanol	46	2.699	2.754	-0.055	62	115315	8000.0	8635.5	
15 Acrolein	56	2.876	2.882	-0.006	94	167756	500.0	485.2	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	714314	200.0	193.9	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.019	95	837057	200.0	206.9	
18 Acetone	43	2.998	3.004	-0.006	86	842718	1000.0	962.8	
19 Iodomethane	142	3.071	3.083	-0.012	98	1747261	200.0	197.1	
22 Isopropyl alcohol	45	3.083	3.108	-0.025	28	478640	2000.0	2143.2	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	2399859	200.0	200.9	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	428768	200.0	200.4	
23 Methyl acetate	43	3.242	3.254	-0.012	96	689720	400.0	410.1	
24 Cyclopentene	67	3.260	3.266	-0.006	93	1439985	200.0	200.6	
29 Acetonitrile	41	3.309	3.321	-0.012	96	791685	2000.0	1886.1	a
26 Methylene Chloride	84	3.370	3.370	0.000	83	772369	200.0	186.5	
* 25 TBA-d9 (IS)	65	3.370	3.376	-0.006	0	325513	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	98	930632	2000.0	1927.4	
28 Methyl tert-butyl ether	73	3.528	3.529	0.000	95	2057279	200.0	195.6	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	89	776878	200.0	195.0	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	1931080	2000.0	2001.6	
32 Hexane	43	3.711	3.717	-0.006	90	460117	200.0	204.3	
33 Isopropyl ether	45	3.925	3.925	0.000	94	1659263	200.0	197.7	
35 Vinyl acetate	86	3.973	3.974	-0.001	99	254633	400.0	403.4	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	72	1150773	200.0	196.7	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	648116	200.0	199.7	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	1896772	200.0	192.8	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	214251	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	94	370450	200.0	198.6	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	900467	200.0	190.8	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	97	378071	1000.0	948.0	
41 Ethyl acetate	70	4.498	4.504	-0.006	94	133642	400.0	423.6	
44 Methyl acrylate	55	4.559	4.559	0.000	98	471496	200.0	203.6	
43 Propionitrile	54	4.638	4.644	-0.006	97	802779	2000.0	1986.7	
45 Tetrahydrofuran	72	4.723	4.723	0.000	83	179889	400.0	393.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	67	509139	200.0	191.9	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	2435931	2000.0	2016.8	
48 Chloroform	83	4.778	4.778	0.000	99	1390169	200.0	195.1	
49 Cyclohexane	84	4.918	4.925	-0.007	86	1114906	200.0	213.2	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.007	97	1360855	200.0	199.3	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	96	188726	50.0	48.4	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	1224185	200.0	202.1	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	95	966910	200.0	199.6	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	98909	5000.0	5340.5	
54 Benzene	78	5.284	5.284	0.000	95	2855529	200.0	199.2	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	186761	50.0	51.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	1843436	200.0	204.1	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	91	700029	200.0	197.6	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	98	962696	200.0	189.7	
60 n-Heptane	57	5.424	5.424	0.000	85	527709	200.0	200.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	566899	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	530638	5000.0	5384.4	
63 Trichloroethene	95	5.930	5.930	0.000	94	825738	200.0	205.1	
65 Methylcyclohexane	83	6.058	6.058	0.000	92	1374050	200.0	207.7	
64 Ethyl acrylate	56	6.052	6.065	-0.013	98	381762	200.0	187.0	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	88	616377	200.0	200.1	
* 67 1,4-Dioxane-d8	96	6.284	6.272	0.012	0	28829	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	78	825729	400.0	430.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	96	722807	200.0	205.2	
69 1,4-Dioxane	88	6.339	6.327	0.012	28	181733	4000.0	4231.4	
71 Dibromomethane	93	6.357	6.351	0.006	89	509861	200.0	195.0	
72 Dichlorobromomethane	83	6.503	6.504	-0.001	98	1025706	200.0	203.0	
73 2-Chloroethyl vinyl ether	63	6.826	6.827	-0.001	87	336535	200.0	204.4	
74 2-Nitropropane	41	6.833	6.833	0.000	93	257855	400.0	399.7	
75 Epichlorohydrin	57	6.948	6.942	0.006	99	1180824	4000.0	4193.5	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	1124267	200.0	205.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	2699838	1000.0	1031.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	662068	50.0	50.0	
79 Toluene	91	7.332	7.333	-0.001	93	3319799	200.0	199.1	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	1012794	200.0	203.7	
81 Ethyl methacrylate	69	7.692	7.692	0.000	82	804595	200.0	203.2	
82 1,1,2-Trichloroethane	83	7.899	7.894	0.005	95	524975	200.0	204.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	96	1085505	200.0	198.1	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	933709	200.0	198.5	
85 2-Hexanone	43	8.155	8.156	-0.001	94	1718735	1000.0	1025.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	740660	200.0	194.4	
87 Chlorodibromomethane	129	8.351	8.345	0.006	98	857879	200.0	212.0	
88 Ethylene Dibromide	107	8.515	8.509	0.006	99	723392	200.0	201.2	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	498452	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	2346554	200.0	199.8	
92 Ethylbenzene	106	9.186	9.186	0.000	97	1268542	200.0	199.8	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	990217	200.0	203.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	1561340	200.0	200.0	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	475456	200.0	201.3	
95 o-Xylene	106	9.802	9.802	0.000	95	1634374	200.0	199.4	
96 Styrene	104	9.832	9.832	0.000	96	2594673	200.0	207.0	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	914505	200.0	208.3	
98 Bromoform	173	10.070	10.070	0.000	98	565141	200.0	206.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	4358252	200.0	205.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	96	262659	50.0	49.1	
101 Bromobenzene	156	10.545	10.545	0.000	83	1231290	200.0	203.6	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	886776	200.0	206.0	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	4624829	200.0	207.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	277760	200.0	205.8	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	203418	200.0	203.4	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	3183461	200.0	204.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	4093676	200.0	201.5	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	3796493	200.0	213.3	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	2717604	200.0	209.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	1072625	200.0	213.2	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	3286057	200.0	217.2	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	3894089	200.0	209.5	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	4867383	200.0	213.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	4491019	200.0	210.9	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	2270831	200.0	197.7	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	90	310039	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	2272564	200.0	195.6	
118 Benzyl chloride	91	11.655	11.655	0.000	100	1862889	200.0	205.9	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	4044900	200.0	203.6	
120 p-Diethylbenzene	119	11.765	11.759	0.006	95	2422045	200.0	196.5	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	2078634	200.0	209.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	2339789	200.0	201.3	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	4456946	200.0	209.0	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	91	178584	200.0	201.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	2066725	200.0	194.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	1991589	200.0	197.1	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	1033478	200.0	209.0	
128 Naphthalene	128	13.319	13.319	0.000	99	4222543	200.0	200.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	1932351	200.0	198.1	
S 130 1,2-Dichloroethene, Total	100				0		400.0	385.8	
S 131 Xylenes, Total	100				0		400.0	399.5	
S 132 Total BTEX	1				0		1000.0	997.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	5.00	Units: uL	
GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

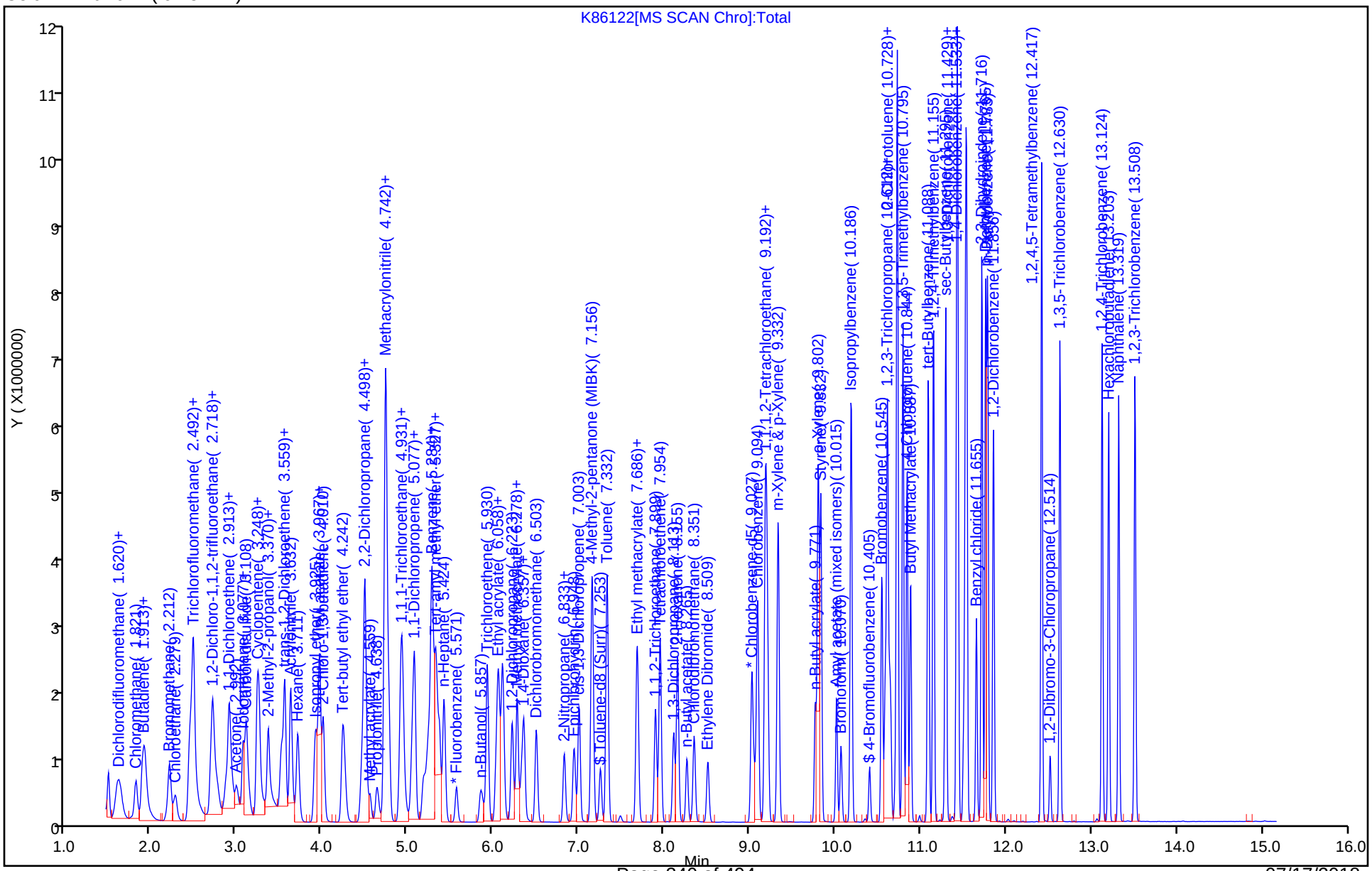
Report Date: 06-Jul-2018 18:59:15 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D

Injection Date:	06-Jul-2018 03:23:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD200			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

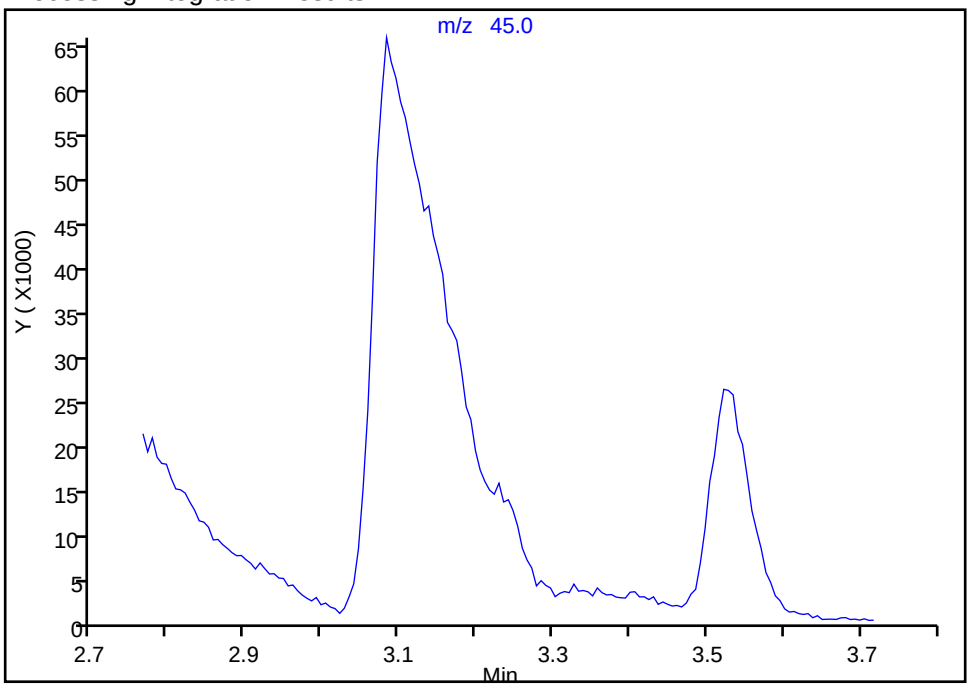
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

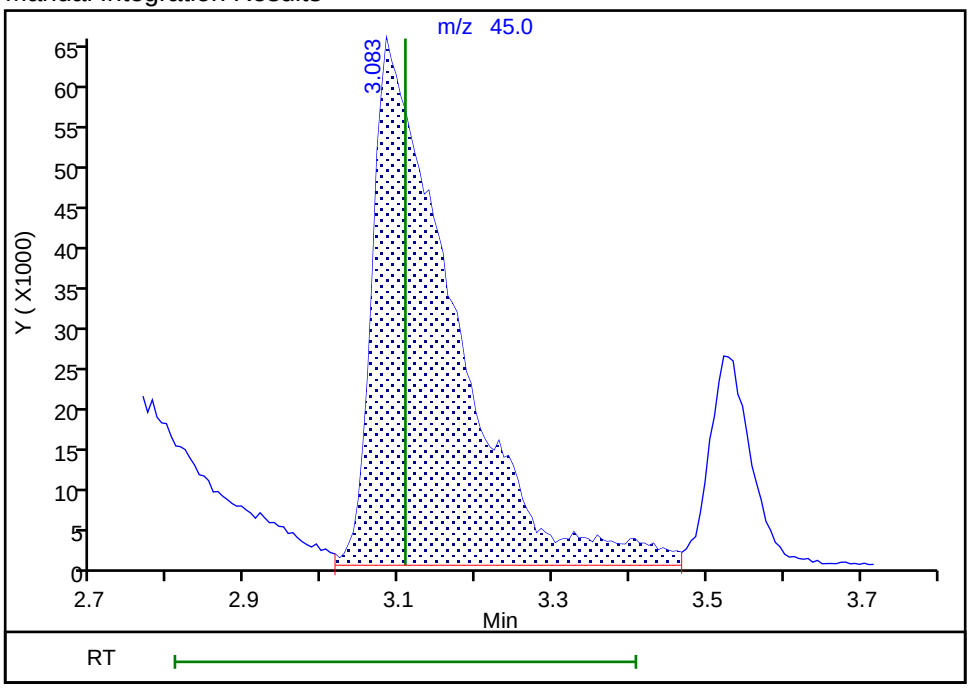
Not Detected
Expected RT: 3.11

Processing Integration Results



RT: 3.08
Area: 478640
Amount: 2143.2320
Amount Units: ug/l

Manual Integration Results



Reviewer: tupayachia, 06-Jul-2018 03:55:58
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

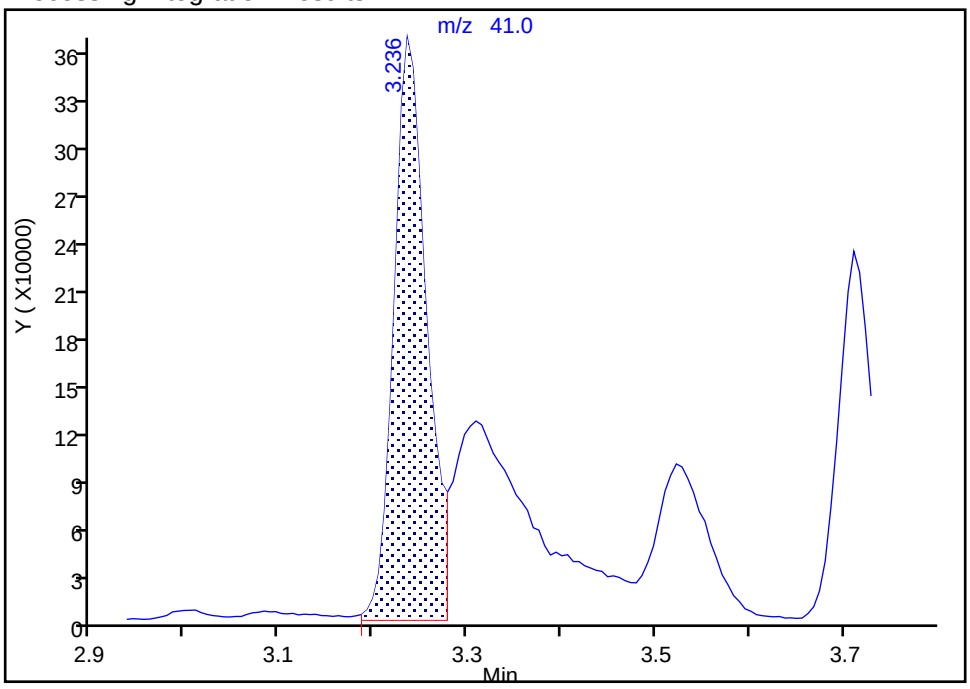
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86122.D
Injection Date: 06-Jul-2018 03:23:30 Instrument ID: CVOAMS9
Lims ID: STD200
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

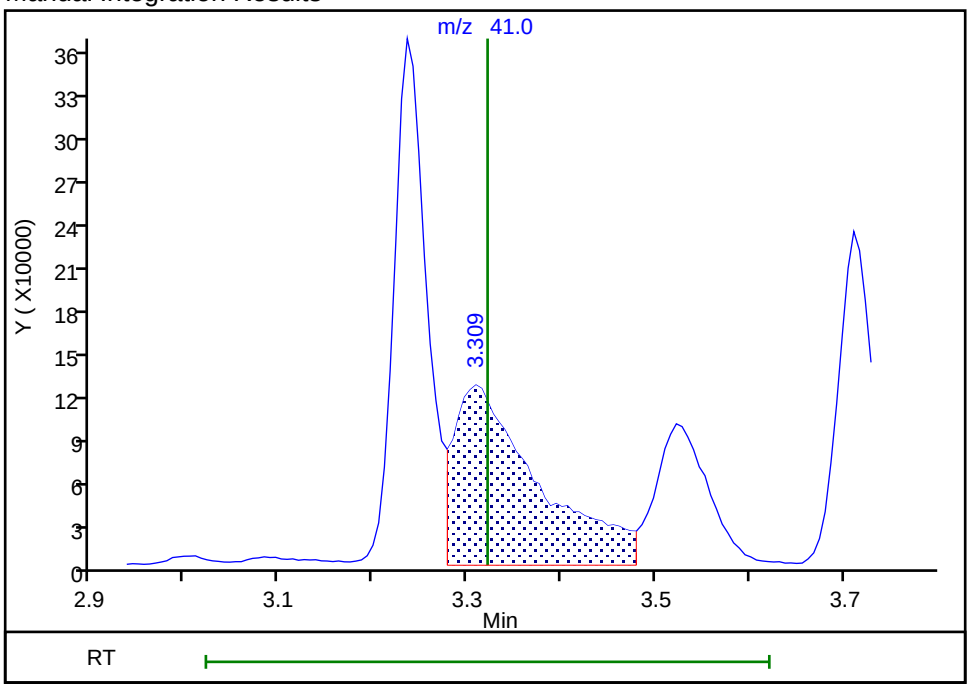
Processing Integration Results

RT: 3.24
Area: 897558
Amount: 2051.1972
Amount Units: ug/l



Manual Integration Results

RT: 3.31
Area: 791685
Amount: 1886.0881
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 03:56:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Lims ID: STD500
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 06-Jul-2018 03:48:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: STD500
Misc. Info.: 460-0074947-008
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 18:59:25 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: tupayachia Date: 06-Jul-2018 04:10:10

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.608	-0.006	86	1581916	500.0	532.8	
2 Dichlorodifluoromethane	85	1.633	1.639	-0.006	99	3377692	500.0	546.4	
3 Chloromethane	50	1.822	1.822	0.000	99	2678351	500.0	526.8	
4 Vinyl chloride	62	1.913	1.913	0.000	98	2776562	500.0	531.9	
5 Butadiene	54	1.919	1.919	0.000	97	2267895	500.0	546.3	
6 Bromomethane	94	2.218	2.218	0.000	99	2295633	500.0	480.9	
7 Chloroethane	64	2.285	2.273	0.012	99	1443523	500.0	512.5	
9 Dichlorofluoromethane	67	2.462	2.462	0.000	98	3643782	500.0	464.7	
8 Trichlorofluoromethane	101	2.462	2.462	0.000	99	3928777	500.0	475.2	
10 Pentane	72	2.486	2.504	-0.018	95	544545	1000.0	985.3	
11 Ethyl ether	59	2.687	2.699	-0.012	93	1156540	500.0	480.0	
13 2-Methyl-1,3-butadiene	53	2.712	2.724	-0.012	96	1337127	500.0	516.5	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.748	0.000	90	2069978	500.0	508.3	
12 Ethanol	46	2.687	2.754	-0.067	91	320534	20000	21851	
15 Acrolein	56	2.876	2.882	-0.006	97	224402	600.0	590.8	
17 1,1-Dichloroethene	96	2.913	2.919	-0.006	95	1952859	500.0	488.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.907	2.925	-0.018	95	2235757	500.0	508.5	
18 Acetone	43	2.992	3.004	-0.012	86	2274136	2500.0	2242.4	
19 Iodomethane	142	3.071	3.083	-0.012	98	4617815	500.0	479.3	
22 Isopropyl alcohol	45	3.077	3.108	-0.031	96	1302896	5000.0	5310.8	a
20 Carbon disulfide	76	3.114	3.120	-0.006	99	6537358	500.0	503.7	
21 3-Chloro-1-propene	76	3.236	3.242	-0.006	91	1202538	500.0	517.3	
23 Methyl acetate	43	3.242	3.254	-0.012	97	1895329	1000.0	1025.7	
24 Cyclopentene	67	3.260	3.266	-0.006	92	3958854	500.0	507.5	
29 Acetonitrile	41	3.303	3.321	-0.018	97	2106672	5000.0	4568.8	a
26 Methylene Chloride	84	3.364	3.370	-0.006	83	2074080	500.0	460.9	
* 25 TBA-d9 (IS)	65	3.352	3.376	-0.024	0	357583	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.419	3.437	-0.018	94	2492265	5000.0	4698.6	
28 Methyl tert-butyl ether	73	3.522	3.529	-0.006	95	5364126	500.0	469.5	
30 trans-1,2-Dichloroethene	96	3.559	3.565	-0.006	90	2061170	500.0	476.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.632	3.638	-0.006	93	5224689	5000.0	4984.0	
32 Hexane	43	3.711	3.717	-0.006	90	1270133	500.0	519.1	
33 Isopropyl ether	45	3.919	3.925	-0.006	93	4533607	500.0	497.1	
34 1,1-Dichloroethane	63	3.967	3.974	-0.007	71	3056763	500.0	480.9	
35 Vinyl acetate	86	3.967	3.974	-0.007	99	671562	1000.0	968.5	
36 2-Chloro-1,3-butadiene	88	4.010	4.016	-0.006	91	1754438	500.0	497.4	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	90	5133710	500.0	480.2	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	248248	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	964832	500.0	476.1	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	97	2362856	500.0	460.8	
41 Ethyl acetate	70	4.498	4.504	-0.006	95	367753	1000.0	972.7	
42 2-Butanone (MEK)	72	4.504	4.504	0.000	98	1014737	2500.0	2195.9	
44 Methyl acrylate	55	4.559	4.559	0.000	99	1312106	500.0	521.5	
43 Propionitrile	54	4.638	4.644	-0.006	97	2193917	5000.0	4942.5	
45 Tetrahydrofuran	72	4.723	4.723	0.000	86	475618	1000.0	897.2	
46 Chlorobromomethane	128	4.729	4.729	0.000	73	1322454	500.0	458.7	
47 Methacrylonitrile	67	4.748	4.748	0.000	89	6585300	5000.0	5017.7	
48 Chloroform	83	4.778	4.778	0.000	99	3664152	500.0	473.1	
49 Cyclohexane	84	4.925	4.925	0.000	87	2931920	500.0	516.0	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	206030	50.0	48.6	
50 1,1,1-Trichloroethane	97	4.931	4.937	-0.006	97	3582611	500.0	482.8	
52 Carbon tetrachloride	117	5.053	5.059	-0.006	98	3301487	500.0	501.6	
53 1,1-Dichloropropene	75	5.077	5.083	-0.006	95	2569628	500.0	488.2	
56 Isobutyl alcohol	74	5.187	5.199	-0.012	97	259572	12500	12758	a
54 Benzene	78	5.284	5.284	0.000	95	7522135	500.0	466.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	218675	50.0	55.5	
57 Isopropyl acetate	43	5.321	5.321	0.000	96	5312631	500.0	541.3	
58 Tert-amyl methyl ether	87	5.333	5.327	0.006	93	1860834	500.0	483.5	
59 1,2-Dichloroethane	62	5.370	5.376	-0.006	98	2598734	500.0	471.2	
60 n-Heptane	57	5.424	5.424	0.000	86	1505522	500.0	527.3	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	615992	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	86	1508710	12500	13936	
63 Trichloroethene	95	5.930	5.930	0.000	95	2223117	500.0	508.3	
65 Methylcyclohexane	83	6.059	6.058	0.000	90	3596894	500.0	500.5	
64 Ethyl acrylate	56	6.059	6.065	-0.007	98	1042735	500.0	470.1	a
66 1,2-Dichloropropane	63	6.223	6.223	0.000	88	1678479	500.0	501.5	
* 67 1,4-Dioxane-d8	96	6.229	6.272	-0.043	0	34504	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	80	2269442	1000.0	1089.4	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	469341	10000	9130.7	
70 n-Propyl acetate	43	6.333	6.327	0.006	97	2044198	500.0	534.1	
71 Dibromomethane	93	6.357	6.351	0.006	89	1378497	500.0	485.1	
72 Dichlorobromomethane	83	6.504	6.504	0.000	98	2824018	500.0	514.3	
73 2-Chloroethyl vinyl ether	63	6.833	6.827	0.006	89	963542	500.0	538.7	
74 2-Nitropropane	41	6.833	6.833	0.000	92	804088	1000.0	1147.0	
75 Epichlorohydrin	57	6.949	6.942	0.007	99	3270235	10000	10023	
76 cis-1,3-Dichloropropene	75	7.010	7.003	0.007	91	3108588	500.0	504.6	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	94	7187745	2500.0	2368.9	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	740216	50.0	49.7	
79 Toluene	91	7.333	7.333	0.000	93	8910383	500.0	474.6	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	2858319	500.0	510.5	
81 Ethyl methacrylate	69	7.692	7.692	0.000	83	2198043	500.0	493.0	
82 1,1,2-Trichloroethane	83	7.900	7.894	0.006	95	1444634	500.0	500.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	97	2911873	500.0	471.8	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	89	2615165	500.0	493.6	
85 2-Hexanone	43	8.156	8.156	0.000	93	4723504	2500.0	2432.9	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	2083090	500.0	485.6	
87 Chlorodibromomethane	129	8.351	8.345	0.006	97	2446176	500.0	536.8	
88 Ethylene Dibromide	107	8.509	8.509	0.000	99	1987867	500.0	491.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	81	561314	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	6383930	500.0	482.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	3389025	500.0	474.0	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	2663401	500.0	485.0	
93 m-Xylene & p-Xylene	106	9.338	9.332	0.006	0	4161018	500.0	473.4	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	1285099	500.0	483.2	
95 o-Xylene	106	9.802	9.802	0.000	95	4319691	500.0	468.1	
96 Styrene	104	9.838	9.832	0.006	96	6963830	500.0	493.3	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	92	2524491	500.0	526.0	
98 Bromoform	173	10.070	10.070	0.000	98	1637292	500.0	531.5	
99 Isopropylbenzene	105	10.192	10.186	0.006	95	11396490	500.0	476.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	290767	50.0	48.2	
101 Bromobenzene	156	10.552	10.545	0.007	84	3250676	500.0	491.7	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	97	2360354	500.0	501.6	
103 N-Propylbenzene	91	10.612	10.612	0.000	99	12091924	500.0	495.1	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	735701	500.0	498.5	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.649	0.006	94	550467	500.0	503.3	
107 4-Ethyltoluene	105	10.728	10.728	0.000	89	10765115	500.0	484.6	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	8468683	500.0	497.6	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	9964542	500.0	512.1	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	7275181	500.0	512.1	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	2894862	500.0	526.1	
111 tert-Butylbenzene	119	11.094	11.088	0.006	94	8734687	500.0	528.0	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	10176278	500.0	500.8	a
113 sec-Butylbenzene	105	11.295	11.295	0.000	98	12624955	500.0	506.5	e
114 4-Isopropyltoluene	119	11.429	11.423	0.006	97	11570143	500.0	496.9	
115 1,3-Dichlorobenzene	146	11.442	11.435	0.007	98	5842995	500.0	465.3	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	93	338998	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	5870913	500.0	462.1	
118 Benzyl chloride	91	11.655	11.655	0.000	100	4948561	500.0	500.3	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	10530920	500.0	484.8	
120 p-Diethylbenzene	119	11.765	11.759	0.006	94	6303088	500.0	467.8	a
121 n-Butylbenzene	92	11.789	11.783	0.006	97	5376664	500.0	495.4	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	6064086	500.0	477.2	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	11374803	500.0	487.9	e
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	92	483065	500.0	498.2	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	98	5298224	500.0	456.1	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	4989907	500.0	451.6	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	2703860	500.0	500.0	
128 Naphthalene	128	13.319	13.319	0.000	99	10757429	500.0	466.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	4868780	500.0	456.6	
S 130 1,2-Dichloroethene, Total	100				0		1000.0	937.0	
S 131 Xylenes, Total	100				0		1000.0	941.5	
S 132 Total BTEX	1				0		2500.0	2356.1	

QC Flag Legend

Processing Flags

e - Potential Peak Saturated

Review Flags

a - User Assigned ID

Reagents:

ACROLEIN W_00078	Amount Added:	6.00	Units: uL	
GASES Li_00267	Amount Added:	50.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	50.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

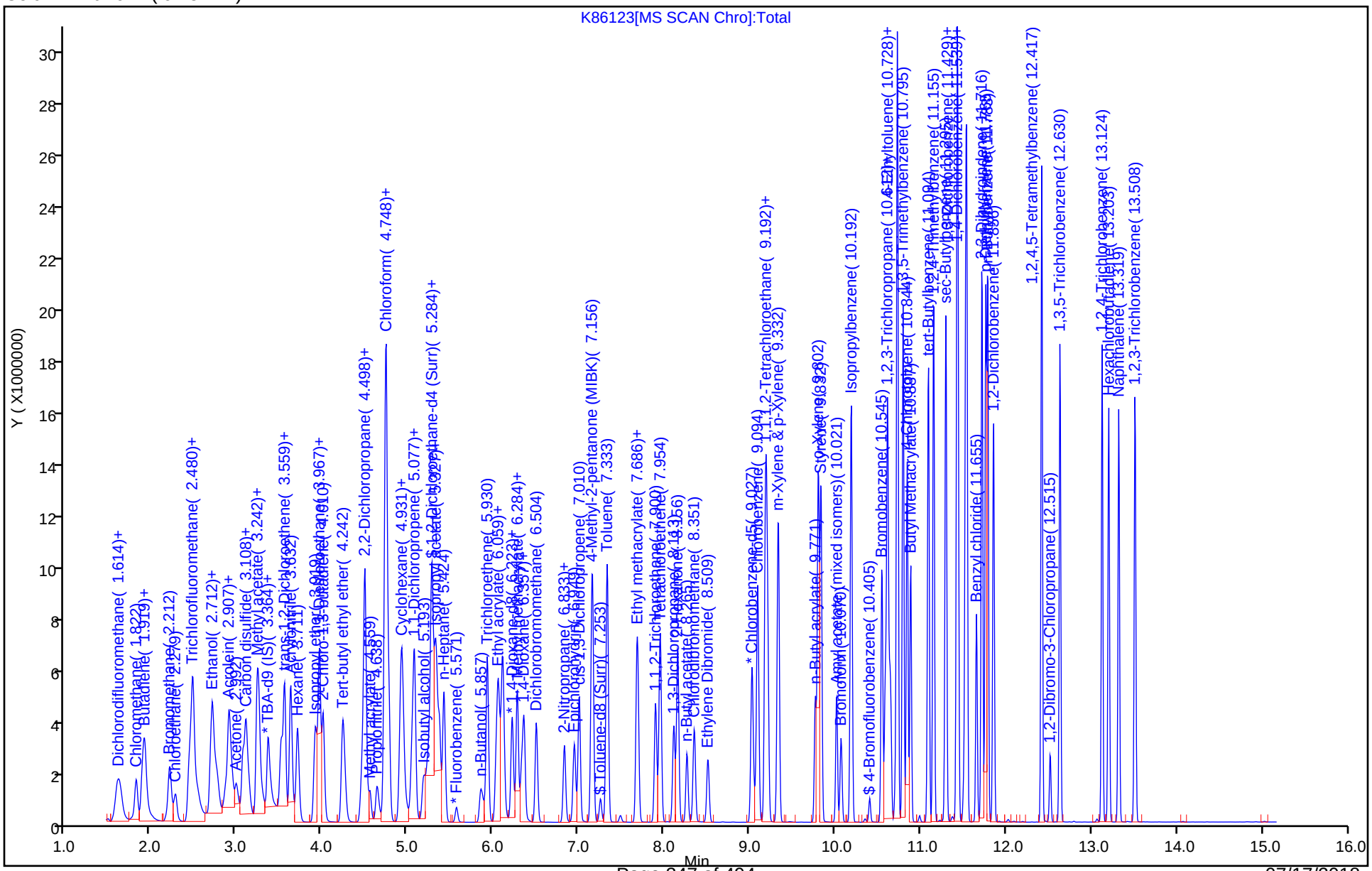
Report Date: 06-Jul-2018 18:59:28 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Injection Date:	06-Jul-2018 03:48:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	STD500			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

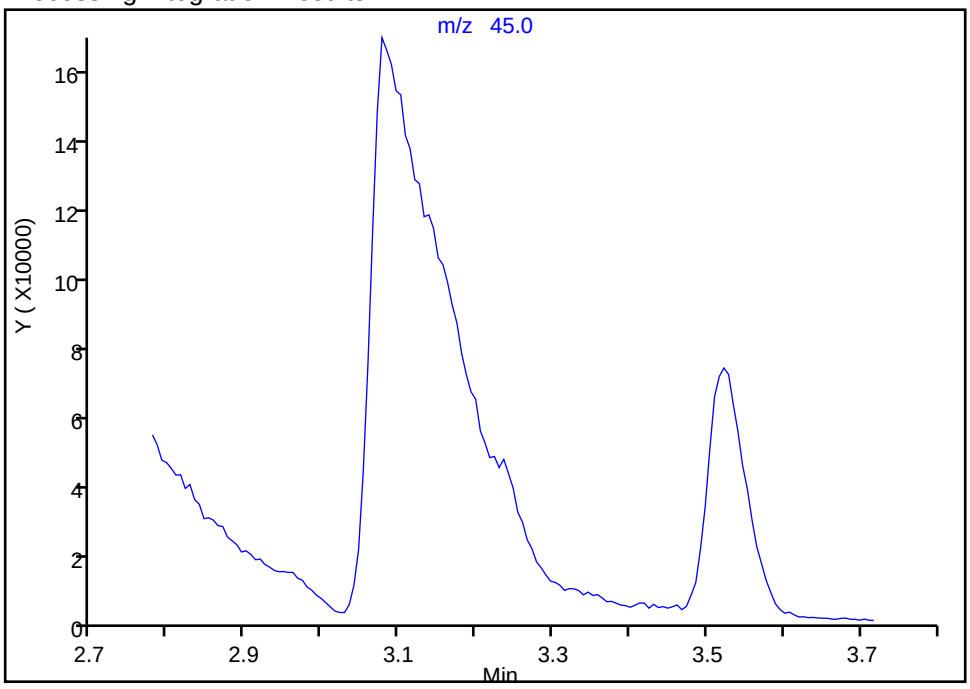
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

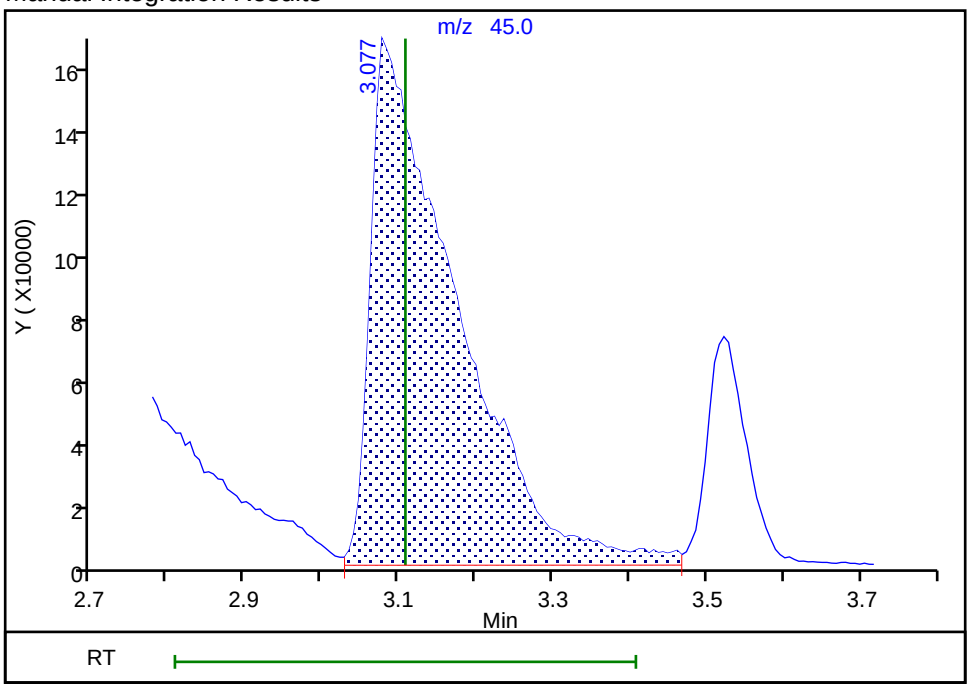
Not Detected
Expected RT: 3.11

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 1302896
Amount: 5310.8179
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:02
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

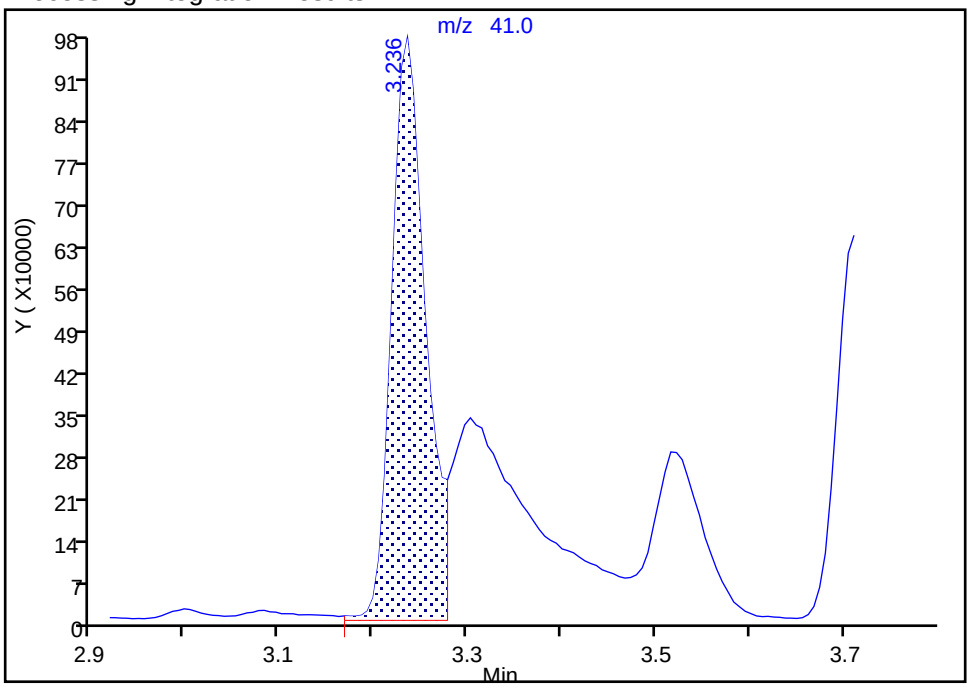
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

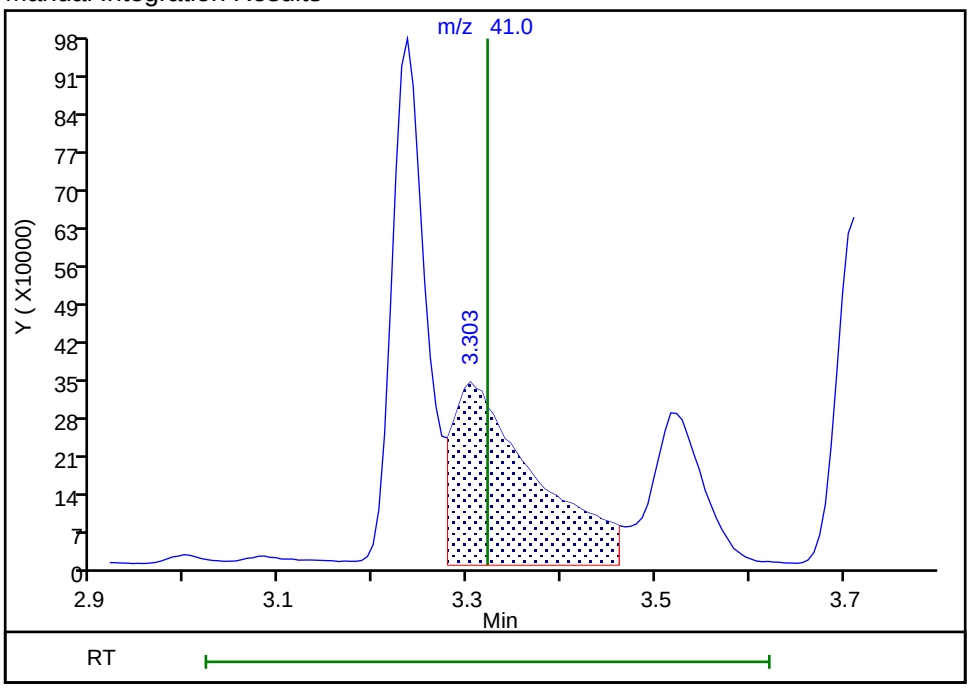
Processing Integration Results

RT: 3.24
Area: 2481153
Amount: 5239.0672
Amount Units: ug/l



Manual Integration Results

RT: 3.30
Area: 2106672
Amount: 4568.7559
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:10
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

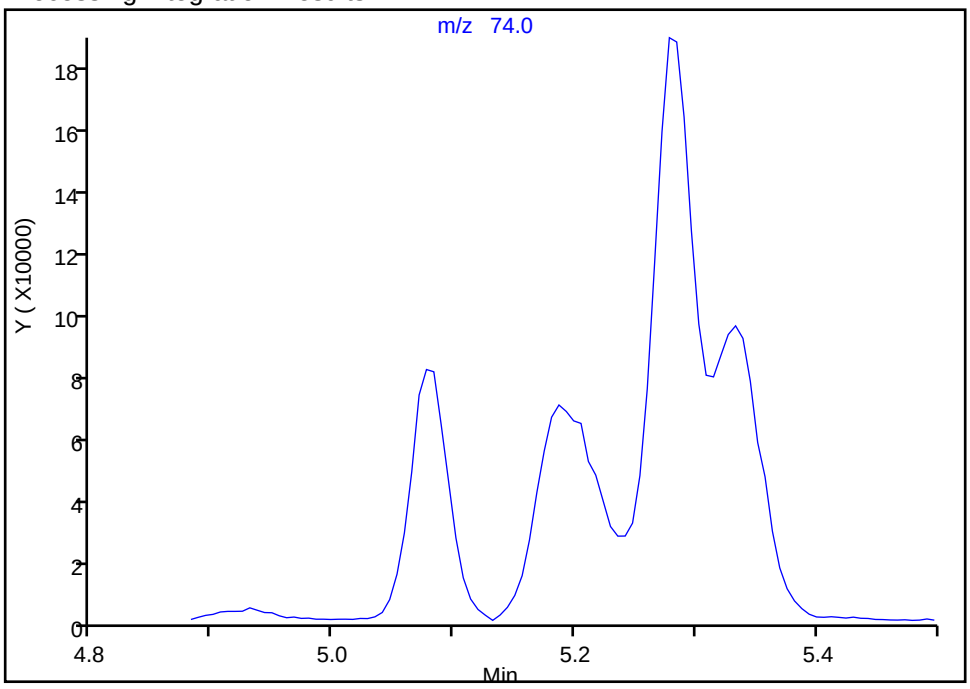
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

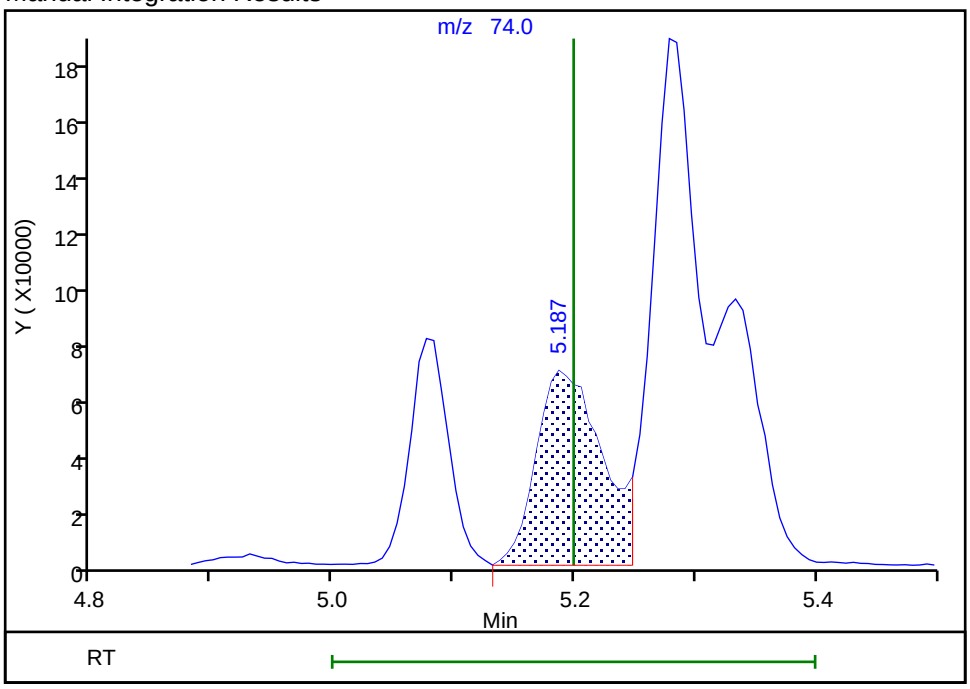
Not Detected
Expected RT: 5.20

Processing Integration Results



Manual Integration Results

RT: 5.19
Area: 259572
Amount: 12758
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:27
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

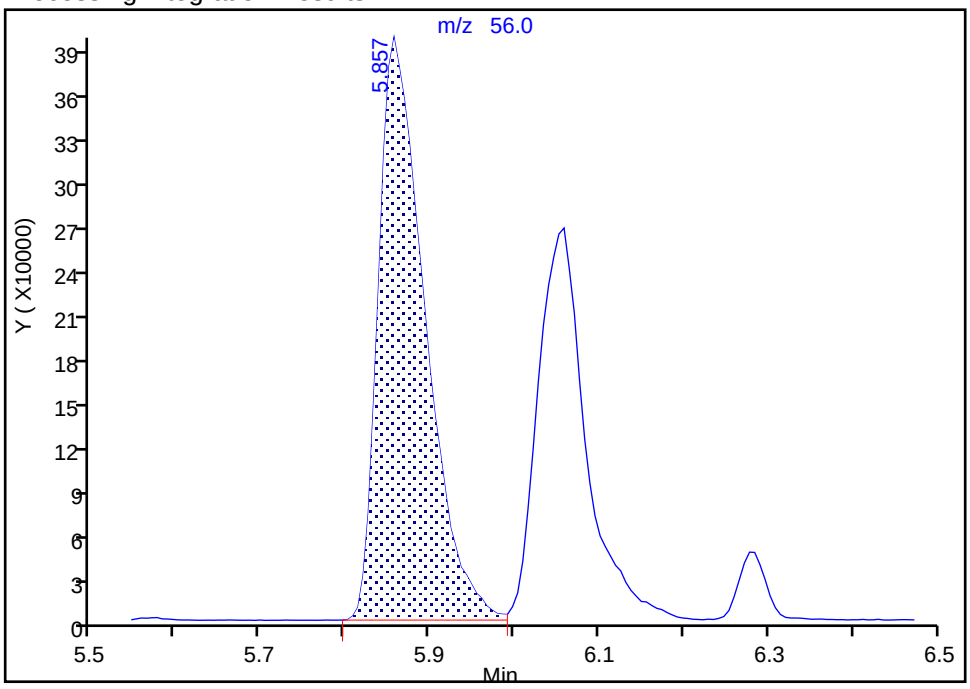
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

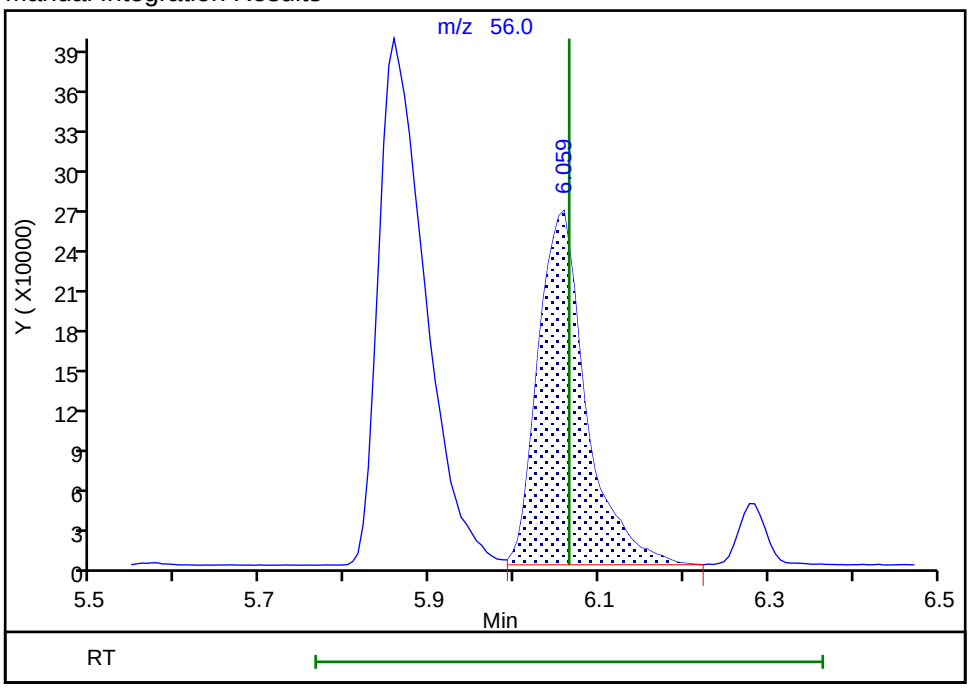
Processing Integration Results

RT: 5.86
Area: 1506483
Amount: 634.9530
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 1042735
Amount: 470.1225
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:08:38
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

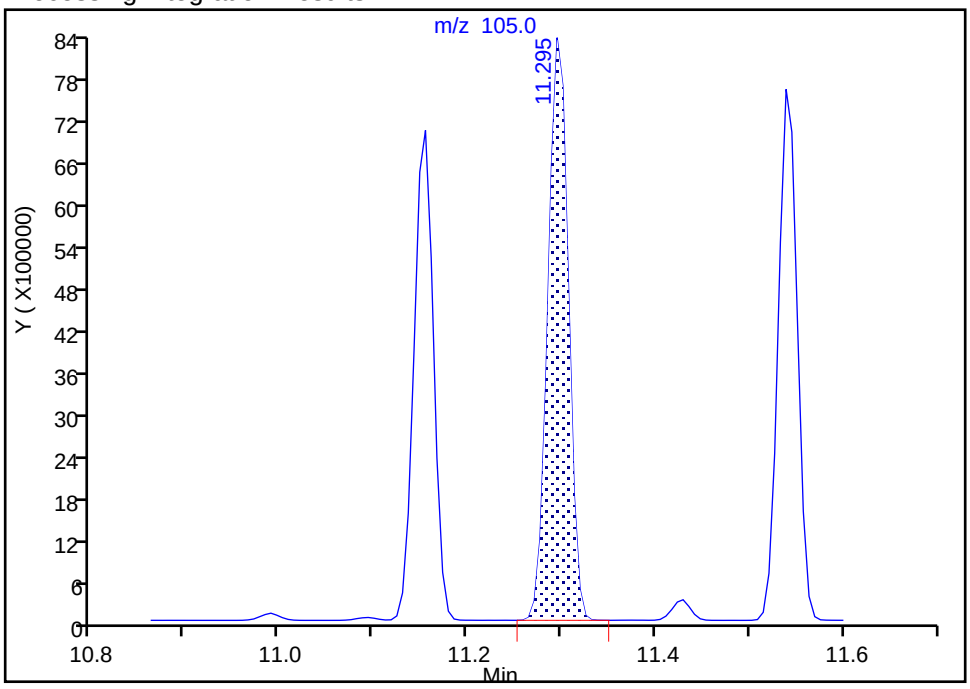
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

112 1,2,4-Trimethylbenzene, CAS: 95-63-6

Signal: 1

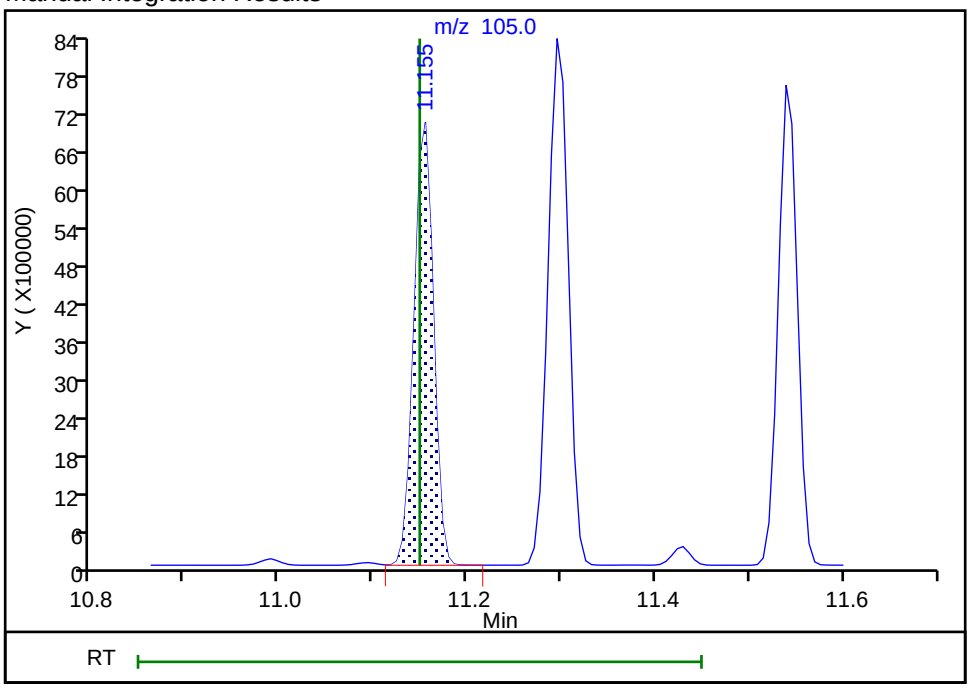
Processing Integration Results

RT: 11.30
Area: 12658181
Amount: 598.5886
Amount Units: ug/l



Manual Integration Results

RT: 11.16
Area: 10176278
Amount: 500.8156
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:44
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

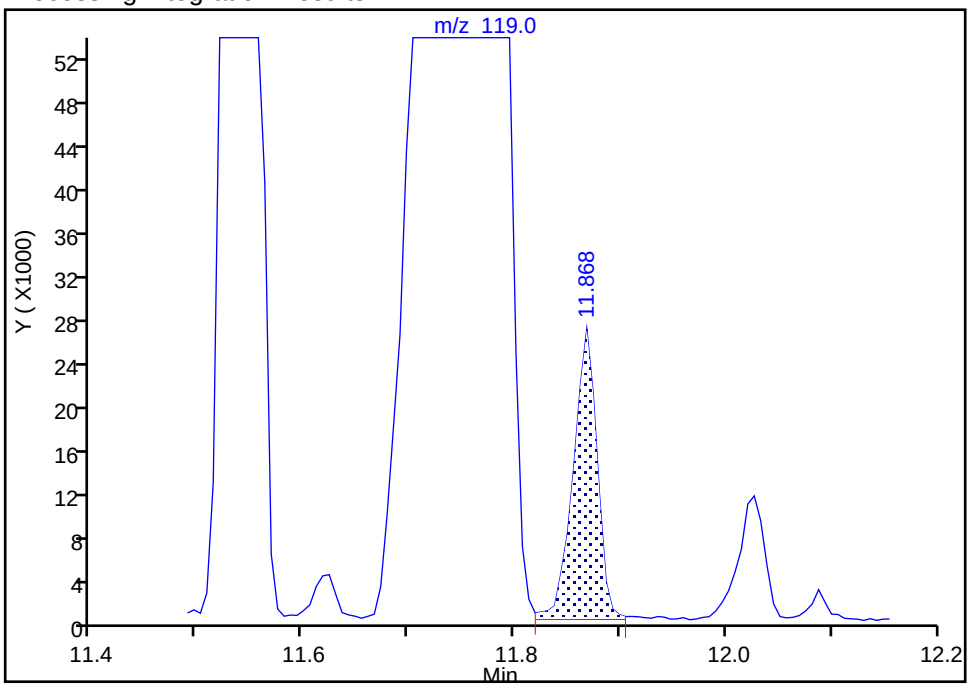
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D
Injection Date: 06-Jul-2018 03:48:30 Instrument ID: CVOAMS9
Lims ID: STD500
Client ID:
Operator ID: ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

120 p-Diethylbenzene, CAS: 105-05-5

Signal: 1

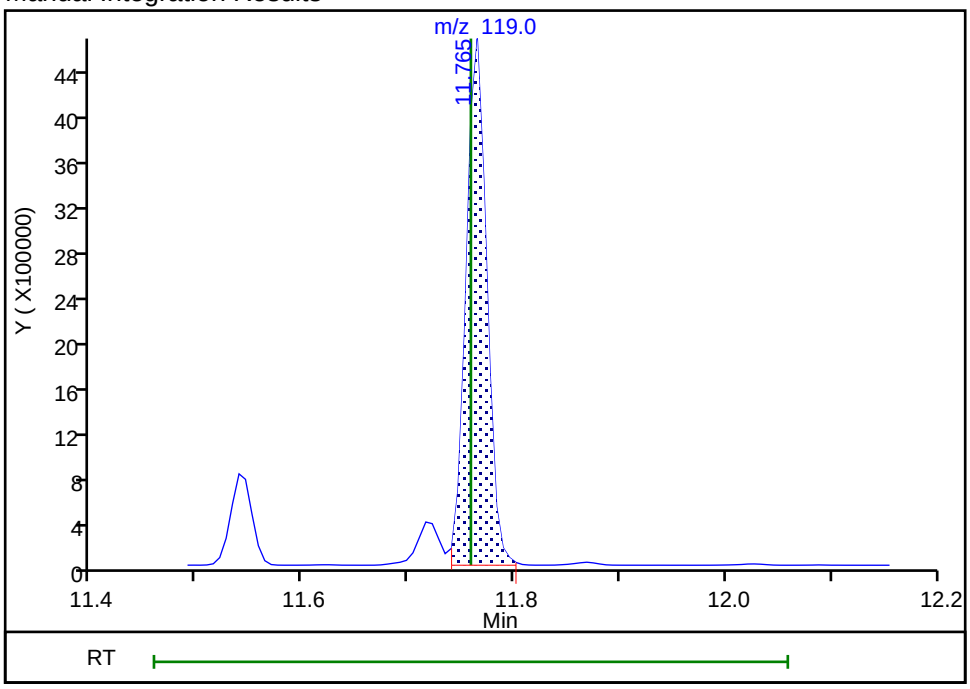
Processing Integration Results

RT: 11.87
Area: 41938
Amount: 6.632357
Amount Units: ug/l



Manual Integration Results

RT: 11.76
Area: 6303088
Amount: 467.7764
Amount Units: ug/l



Reviewer: tupayachia, 06-Jul-2018 04:09:59
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-534459/3 Calibration Date: 07/08/2018 18:28

Instrument ID: CVOAMS1 Calib Start Date: 07/02/2018 06:22

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/02/2018 11:35

Lab File ID: A58430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.1764	0.1582		17.9	20.0	-10.3	20.0
Dichlorodifluoromethane	Ave	0.4954	0.5286	0.1000	21.3	20.0	6.7	20.0
Chloromethane	Ave	0.6410	0.6816	0.1000	21.3	20.0	6.3	20.0
Vinyl chloride	Ave	0.5547	0.6134	0.1000	22.1	20.0	10.6	20.0
Butadiene	Ave	0.5952	0.6320		21.2	20.0	6.2	20.0
Bromomethane	Ave	0.3306	0.3377	0.1000	20.4	20.0	2.2	50.0
Chloroethane	Ave	0.3360	0.3490	0.1000	20.8	20.0	3.8	50.0
Dichlorofluoromethane	Ave	0.7776	0.8146		21.0	20.0	4.8	20.0
Pentane	Ave	2.385	2.507		42.0	40.0	5.1	20.0
Trichlorofluoromethane	Ave	0.5753	0.6029	0.1000	21.0	20.0	4.8	20.0
Ethanol	Ave	0.0549	0.0473		690	800	-13.8	50.0
Ethyl ether	Ave	0.3229	0.3097		19.2	20.0	-4.1	20.0
2-Methyl-1,3-butadiene	Ave	0.3669	0.3553		19.4	20.0	-3.2	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.2688	0.2429		18.1	20.0	-9.6	20.0
Acrolein	Ave	2.003	2.324		46.4	40.0	16.0	50.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3049	0.2799	0.1000	18.4	20.0	-8.2	20.0
1,1-Dichloroethene	Ave	0.3157	0.2805	0.1000	17.8	20.0	-11.1	20.0
Acetone	Ave	0.2530	0.2491	0.0500	98.4	100	-1.6	50.0
Iodomethane	Ave	0.5805	0.5470		18.8	20.0	-5.8	20.0
Carbon disulfide	Qua		1.032	0.1000	17.4	20.0	-13.2	50.0
Isopropyl alcohol	Ave	0.8150	0.7528		185	200	-7.6	50.0
Allyl chloride	Ave	0.2282	0.1972		17.3	20.0	-13.6	20.0
Cyclopentene	Ave	0.9401	0.8351		17.8	20.0	-11.2	20.0
Methyl acetate	Ave	0.3363	0.2859	0.1000	34.0	40.0	-15.0	20.0
Acetonitrile	Ave	1.164	1.012		174	200	-13.1	20.0
Methylene Chloride	Ave	0.4518	0.3896	0.1000	17.2	20.0	-13.8	20.0
2-Methyl-2-propanol	Ave	1.528	0.9490		124	200	-37.9	50.0
Methyl tert-butyl ether	Ave	1.081	0.9463	0.1000	17.5	20.0	-12.4	20.0
trans-1,2-Dichloroethene	Ave	0.3963	0.3551	0.1000	17.9	20.0	-10.4	20.0
Acrylonitrile	Ave	0.1740	0.1432		165	200	-17.7	20.0
Hexane	Ave	0.3728	0.3181		17.1	20.0	-14.7	20.0
Isopropyl ether	Ave	1.376	1.198		17.4	20.0	-12.9	20.0
1,1-Dichloroethane	Ave	0.7539	0.6554	0.2000	17.4	20.0	-13.1	20.0
Vinyl acetate	Lin2		2.599		37.7	40.0	-5.6	20.0
2-Chloro-1,3-butadiene	Ave	0.3303	0.2995		18.1	20.0	-9.3	20.0
Tert-butyl ethyl ether	Ave	1.133	0.999		17.6	20.0	-11.8	20.0
2,2-Dichloropropane	Ave	0.1264	0.1141		18.0	20.0	-9.8	20.0
cis-1,2-Dichloroethene	Ave	0.4365	0.3817	0.1000	17.5	20.0	-12.5	20.0
2-Butanone (MEK)	Ave	0.2953	0.2625	0.0500	88.9	100	-11.1	50.0
Ethyl acetate	Ave	0.2506	0.2192		35.0	40.0	-12.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-534459/3 Calibration Date: 07/08/2018 18:28

Instrument ID: CVOAMS1 Calib Start Date: 07/02/2018 06:22

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/02/2018 11:35

Lab File ID: A58430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.3406	0.2684		15.8	20.0	-21.2*	20.0
Propionitrile	Ave	2.203	1.843		167	200	-16.3	20.0
Chlorobromomethane	Ave	0.2126	0.1902		17.9	20.0	-10.5	20.0
Tetrahydrofuran	Ave	0.3442	0.3236		37.6	40.0	-6.0	20.0
Methacrylonitrile	Ave	0.1600	0.1320		165	200	-17.5	20.0
Chloroform	Ave	0.6874	0.6029	0.2000	17.5	20.0	-12.3	20.0
Cyclohexane	Ave	0.6730	0.5961	0.1000	17.7	20.0	-11.4	50.0
1,1,1-Trichloroethane	Ave	0.5467	0.4838	0.1000	17.7	20.0	-11.5	20.0
Carbon tetrachloride	Ave	0.4445	0.3844	0.1000	17.3	20.0	-13.5	20.0
1,1-Dichloropropene	Ave	0.5182	0.4539		17.5	20.0	-12.4	20.0
Isobutyl alcohol	Ave	0.9587	0.7980		416	500	-16.8	50.0
2,2,4-Trimethylpentane	Ave	1.332	1.216		18.3	20.0	-8.7	20.0
Benzene	Ave	2.217	2.137	0.5000	19.3	20.0	-3.6	20.0
Isopropyl acetate	Ave	1.237	1.073		17.3	20.0	-13.3	20.0
Tert-amyl methyl ether	Ave	0.3234	0.2800		17.3	20.0	-13.4	20.0
1,2-Dichloroethane	Ave	0.5585	0.4657	0.1000	16.7	20.0	-16.6	20.0
n-Heptane	Ave	0.3027	0.2731		18.0	20.0	-9.8	20.0
n-Butanol	Ave	0.2668	0.2574		482	500	-3.5	50.0
Trichloroethene	Ave	0.3615	0.3017	0.2000	16.7	20.0	-16.6	20.0
Ethyl acrylate	Ave	0.2520	0.2255		17.9	20.0	-10.5	20.0
Methylcyclohexane	Ave	0.5926	0.5173	0.1000	17.5	20.0	-12.7	50.0
1,2-Dichloropropane	Ave	0.3908	0.3451	0.1000	17.7	20.0	-11.7	20.0
Methyl methacrylate	Ave	0.0809	0.0642		31.7	40.0	-20.6*	20.0
1,4-Dioxane	Ave	1.397	1.073		307	400	-23.2	50.0
n-Propyl acetate	Ave	0.5387	0.4754		17.7	20.0	-11.7	20.0
Dibromomethane	Ave	0.2391	0.1958		16.4	20.0	-18.1	20.0
Bromodichloromethane	Ave	0.4652	0.3940	0.2000	16.9	20.0	-15.3	20.0
2-Chloroethyl vinyl ether	Ave	0.2067	0.1706		16.5	20.0	-17.5	20.0
2-Nitropropane	Ave	0.0954	0.0763		32.0	40.0	-20.0	20.0
Epichlorohydrin	Ave	0.2315	0.2270		392	400	-1.9	20.0
cis-1,3-Dichloropropene	Ave	0.7455	0.6929	0.2000	18.6	20.0	-7.1	50.0
4-Methyl-2-pentanone (MIBK)	Ave	2.792	2.884	0.0500	103	100	3.3	50.0
Toluene	Ave	2.084	1.866	0.4000	17.9	20.0	-10.4	20.0
trans-1,3-Dichloropropene	Ave	0.6483	0.6008	0.1000	18.5	20.0	-7.3	50.0
Ethyl methacrylate	Ave	0.3904	0.3530		18.1	20.0	-9.6	20.0
1,1,2-Trichloroethane	Ave	0.3770	0.3360	0.1000	17.8	20.0	-10.9	20.0
Tetrachloroethene	Ave	0.5002	0.4013	0.2000	16.0	20.0	-19.8	20.0
1,3-Dichloropropane	Ave	0.7222	0.6681		18.5	20.0	-7.5	20.0
2-Hexanone	Ave	1.680	1.727	0.0500	103	100	2.8	50.0
n-Butyl acetate	Ave	0.1242	0.1186		19.1	20.0	-4.5	20.0
Dibromochloromethane	Ave	0.4164	0.3471	0.1000	16.7	20.0	-16.6	50.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-534459/3 Calibration Date: 07/08/2018 18:28

Instrument ID: CVOAMS1 Calib Start Date: 07/02/2018 06:22

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/02/2018 11:35

Lab File ID: A58430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromoethane	Ave	0.4183	0.3638	0.1000	17.4	20.0	-13.0	20.0
Chlorobenzene	Ave	1.322	1.124	0.5000	17.0	20.0	-14.9	20.0
Ethylbenzene	Ave	0.7129	0.6171	0.1000	17.3	20.0	-13.4	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4837	0.4025		16.6	20.0	-16.8	20.0
m-Xylene & p-Xylene	Ave	0.8642	0.7616	0.1000	17.6	20.0	-11.9	20.0
n-Butyl acrylate	Ave	0.3579	0.3289		18.4	20.0	-8.1	20.0
o-Xylene	Ave	0.8863	0.7856	0.3000	17.7	20.0	-11.4	20.0
Styrene	Ave	1.481	1.313	0.3000	17.7	20.0	-11.4	20.0
Bromoform	Ave	0.2602	0.2132	0.1000	16.4	20.0	-18.1	20.0
Isopropylbenzene	Ave	2.334	2.011	0.1000	17.2	20.0	-13.8	20.0
1,1,2,2-Tetrachloroethane	Ave	1.136	1.055	0.3000	18.6	20.0	-7.2	20.0
Bromobenzene	Ave	1.016	0.8390		16.5	20.0	-17.4	20.0
N-Propylbenzene	Ave	4.804	4.400		18.3	20.0	-8.4	20.0
1,2,3-Trichloropropane	Ave	0.3088	0.2839		18.4	20.0	-8.0	20.0
trans-1,4-Dichloro-2-butene	QuaF		0.2783		29.5	20.0	47.3*	20.0
4-Ethyltoluene	Ave	4.043	3.599		17.8	20.0	-11.0	20.0
2-Chlorotoluene	Ave	3.445	3.111		18.1	20.0	-9.7	20.0
1,3,5-Trimethylbenzene	Ave	3.372	3.039		18.0	20.0	-9.9	20.0
4-Chlorotoluene	Ave	2.961	2.747		18.6	20.0	-7.2	20.0
Butyl Methacrylate	Lin2		1.105		17.7	20.0	-11.6	20.0
tert-Butylbenzene	Ave	2.742	2.284		16.7	20.0	-16.7	20.0
1,2,4-Trimethylbenzene	Ave	3.497	3.093		17.7	20.0	-11.6	20.0
sec-Butylbenzene	Ave	4.270	3.682		17.2	20.0	-13.8	20.0
4-Isopropyltoluene	Ave	3.679	3.211		17.5	20.0	-12.7	20.0
1,3-Dichlorobenzene	Ave	2.085	1.781	0.6000	17.1	20.0	-14.6	20.0
1,2,3-Trimethylbenzene	Ave	3.834	3.409		17.8	20.0	-11.1	20.0
1,4-Dichlorobenzene	Ave	2.168	1.808	0.5000	16.7	20.0	-16.6	20.0
Benzyl chloride	Ave	1.914	1.742		18.2	20.0	-9.0	50.0
Indan	Ave	4.092	3.651		17.8	20.0	-10.8	20.0
p-Diethylbenzene	Ave	2.357	2.137		18.1	20.0	-9.3	20.0
n-Butylbenzene	Ave	2.114	1.937		18.3	20.0	-8.4	20.0
1,2-Dichlorobenzene	Ave	2.047	1.733	0.4000	16.9	20.0	-15.4	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.505	3.025		17.3	20.0	-13.7	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.2116	0.1866	0.0500	17.6	20.0	-11.8	50.0
1,3,5-Trichlorobenzene	Ave	1.560	1.245		16.0	20.0	-20.2*	20.0
1,2,4-Trichlorobenzene	Ave	1.380	1.124	0.2000	16.3	20.0	-18.5	20.0
Hexachlorobutadiene	Ave	0.6487	0.5147		15.9	20.0	-20.7*	20.0
Naphthalene	Ave	3.312	2.665		16.1	20.0	-19.5	50.0
1,2,3-Trichlorobenzene	Ave	1.232	0.9574		15.5	20.0	-22.3*	20.0
Dibromofluoromethane (Surr)	Ave	0.2920	0.2998		51.3	50.0	2.7	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3776	0.3540		46.9	50.0	-6.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-534459/3 Calibration Date: 07/08/2018 18:28

Instrument ID: CVOAMS1 Calib Start Date: 07/02/2018 06:22

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/02/2018 11:35

Lab File ID: A58430.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Toluene-d8 (Surr)	Ave	1.426	1.472		51.6	50.0	3.2	20.0
4-Bromofluorobenzene	Ave	0.4484	0.4373		48.8	50.0	-2.5	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58430.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 08-Jul-2018 18:28:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075082-003
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1
Sublist: chrom-8260624W_1*sub42

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 06:46:32 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 09-Jul-2018 06:37:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.537	1.537	0.000	88	27178	20.0	17.9	
3 Dichlorodifluoromethane	85	1.567	1.567	0.000	99	90803	20.0	21.3	
4 Chloromethane	50	1.750	1.750	0.000	99	117082	20.0	21.3	
5 Vinyl chloride	62	1.842	1.842	0.000	98	105377	20.0	22.1	
6 Butadiene	39	1.848	1.848	0.000	97	108570	20.0	21.2	
7 Bromomethane	94	2.165	2.165	0.000	98	58007	20.0	20.4	
8 Chloroethane	64	2.226	2.226	0.000	100	59943	20.0	20.8	
11 Pentane	72	2.433	2.433	0.000	98	21375	40.0	42.0	
10 Dichlorofluoromethane	67	2.433	2.433	0.000	97	139937	20.0	21.0	
9 Trichlorofluoromethane	101	2.439	2.439	0.000	63	103572	20.0	21.0	
12 Ethanol	46	2.640	2.640	0.000	86	8068	800.0	689.7	
13 Ethyl ether	59	2.646	2.646	0.000	90	53208	20.0	19.2	
14 2-Methyl-1,3-butadiene	53	2.658	2.658	0.000	92	61031	20.0	19.4	
15 1,2-Dichloro-1,1,2-trifluo	117	2.738	2.738	0.000	87	41733	20.0	18.1	
16 Acrolein	56	2.835	2.835	0.000	95	19811	40.0	46.4	
18 1,1-Dichloroethene	96	2.866	2.866	0.000	92	48188	20.0	17.8	
17 1,1,2-Trichloro-1,2,2-trif	101	2.866	2.866	0.000	55	48088	20.0	18.4	
19 Acetone	58	2.963	2.963	0.000	86	27217	100.0	98.4	
20 Iodomethane	142	3.030	3.030	0.000	98	93970	20.0	18.8	
21 Carbon disulfide	76	3.055	3.055	0.000	100	177319	20.0	17.4	
22 Isopropyl alcohol	45	3.073	3.073	0.000	98	32088	200.0	184.7	a
23 3-Chloro-1-propene	76	3.189	3.189	0.000	90	33872	20.0	17.3	
25 Cyclopentene	67	3.201	3.201	0.000	94	143450	20.0	17.8	
24 Methyl acetate	43	3.207	3.207	0.000	99	98214	40.0	34.0	
26 Acetonitrile	40	3.274	3.274	0.000	98	43130	200.0	173.9	
27 Methylene Chloride	84	3.317	3.317	0.000	97	66917	20.0	17.2	
* 28 TBA-d9 (IS)	65	3.329	3.329	0.000	0	213139	1000.0	1000.0	
29 2-Methyl-2-propanol	59	3.396	3.396	0.000	98	40455	200.0	124.2	
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	97	162552	20.0	17.5	
31 trans-1,2-Dichloroethene	96	3.494	3.494	0.000	97	61003	20.0	17.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Acrylonitrile	53	3.573	3.573	0.000	95	245959	200.0	164.6	
33 Hexane	43	3.646	3.646	0.000	95	54644	20.0	17.1	
34 Isopropyl ether	45	3.847	3.847	0.000	94	205739	20.0	17.4	
35 1,1-Dichloroethane	63	3.866	3.866	0.000	99	112576	20.0	17.4	
36 Vinyl acetate	86	3.884	3.884	0.000	100	22158	40.0	37.7	
37 2-Chloro-1,3-butadiene	88	3.908	3.908	0.000	91	51449	20.0	18.1	
38 Tert-butyl ethyl ether	59	4.122	4.122	0.000	90	171627	20.0	17.6	
* 39 2-Butanone-d5	46	4.292	4.292	0.000	0	273188	250.0	250.0	
40 2,2-Dichloropropane	97	4.317	4.317	0.000	78	19592	20.0	18.0	
41 cis-1,2-Dichloroethene	96	4.323	4.323	0.000	93	65575	20.0	17.5	
43 2-Butanone (MEK)	72	4.341	4.341	0.000	95	28684	100.0	88.9	
42 Ethyl acetate	70	4.341	4.341	0.000	92	9582	40.0	35.0	
44 Methyl acrylate	55	4.384	4.384	0.000	98	46097	20.0	15.8	a
45 Propionitrile	54	4.457	4.457	0.000	98	78568	200.0	167.3	
47 Tetrahydrofuran	72	4.512	4.512	0.000	56	14144	40.0	37.6	
46 Chlorobromomethane	128	4.512	4.512	0.000	89	32674	20.0	17.9	
48 Methacrylonitrile	67	4.536	4.536	0.000	94	226746	200.0	165.0	
49 Chloroform	83	4.554	4.554	0.000	98	103559	20.0	17.5	
50 Cyclohexane	56	4.664	4.664	0.000	94	102404	20.0	17.7	
51 1,1,1-Trichloroethane	97	4.676	4.676	0.000	97	83104	20.0	17.7	
$ 52 Dibromofluoromethane (Surr	113	4.682	4.682	0.000	97	128757	50.0	51.3	
54 Carbon tetrachloride	117	4.768	4.768	0.000	96	66028	20.0	17.3	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	96	77962	20.0	17.5	
56 Isobutyl alcohol	43	4.902	4.902	0.000	89	85039	500.0	416.2	
57 Isooctane	57	4.920	4.920	0.000	98	208818	20.0	18.3	
58 Benzene	78	4.945	4.945	0.000	96	225463	20.0	19.3	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	152011	50.0	46.9	
60 Isopropyl acetate	43	4.987	4.987	0.000	95	184253	20.0	17.3	
61 Tert-amyl methyl ether	87	4.987	4.987	0.000	92	48106	20.0	17.3	
62 1,2-Dichloroethane	62	5.018	5.018	0.000	96	79996	20.0	16.7	
63 n-Heptane	71	5.054	5.054	0.000	96	46904	20.0	18.0	
* 64 Fluorobenzene	96	5.164	5.164	0.000	97	429451	50.0	50.0	
65 n-Butanol	56	5.377	5.377	0.000	95	27427	500.0	482.4	
66 Trichloroethene	95	5.426	5.426	0.000	96	51817	20.0	16.7	
67 Ethyl acrylate	56	5.518	5.518	0.000	97	38739	20.0	17.9	
68 Methylcyclohexane	83	5.524	5.524	0.000	97	88856	20.0	17.5	
69 1,2-Dichloropropane	63	5.646	5.646	0.000	93	59274	20.0	17.7	
* 71 1,4-Dioxane-d8	96	5.682	5.682	0.000	0	20680	1000.0	1000.0	
70 Methyl methacrylate	100	5.694	5.694	0.000	95	22070	40.0	31.7	
73 1,4-Dioxane	88	5.731	5.731	0.000	27	8877	400.0	307.3	
72 n-Propyl acetate	43	5.731	5.731	0.000	98	81672	20.0	17.7	
74 Dibromomethane	93	5.749	5.749	0.000	93	33638	20.0	16.4	
75 Dichlorobromomethane	83	5.865	5.865	0.000	98	67680	20.0	16.9	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	81	29304	20.0	16.5	
77 2-Nitropropane	41	6.139	6.139	0.000	84	26218	40.0	32.0	
78 Epichlorohydrin	57	6.231	6.231	0.000	99	99240	400.0	392.3	
79 cis-1,3-Dichloropropene	75	6.274	6.274	0.000	96	73107	20.0	18.6	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	98	315150	100.0	103.3	
$ 81 Toluene-d8 (Surr)	98	6.493	6.493	0.000	98	388352	50.0	51.6	
82 Toluene	91	6.554	6.554	0.000	92	196905	20.0	17.9	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	97	63391	20.0	18.5	
84 Ethyl methacrylate	69	6.816	6.816	0.000	90	60646	20.0	18.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
85 1,1,2-Trichloroethane	83	6.962	6.962	0.000	95	35456	20.0	17.8	
86 Tetrachloroethene	166	6.999	6.999	0.000	94	42347	20.0	16.0	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	97	70492	20.0	18.5	
88 2-Hexanone	43	7.133	7.133	0.000	97	188767	100.0	102.8	
89 n-Butyl acetate	73	7.194	7.194	0.000	97	12511	20.0	19.1	
90 Chlorodibromomethane	129	7.249	7.249	0.000	97	36622	20.0	16.7	
91 Ethylene Dibromide	107	7.353	7.353	0.000	96	38383	20.0	17.4	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	90	263791	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	92	118632	20.0	17.0	
94 Ethylbenzene	106	7.725	7.725	0.000	99	65110	20.0	17.3	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	92	42467	20.0	16.6	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	98	80358	20.0	17.6	
97 n-Butyl acrylate	73	8.029	8.029	0.000	95	34701	20.0	18.4	
98 o-Xylene	106	8.066	8.066	0.000	93	82895	20.0	17.7	
99 Styrene	104	8.084	8.084	0.000	92	138520	20.0	17.7	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	87	123054	20.0	20.5	
101 Bromoform	173	8.224	8.224	0.000	93	22493	20.0	16.4	
102 Isopropylbenzene	105	8.285	8.285	0.000	97	212227	20.0	17.2	
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	88	115355	50.0	48.8	
104 Bromobenzene	156	8.505	8.505	0.000	96	53101	20.0	16.5	
105 1,1,2,2-Tetrachloroethane	83	8.505	8.505	0.000	98	66776	20.0	18.6	
106 N-Propylbenzene	91	8.529	8.529	0.000	98	278471	20.0	18.3	
107 1,2,3-Trichloropropane	110	8.541	8.541	0.000	96	17970	20.0	18.4	
108 trans-1,4-Dichloro-2-buten	53	8.548	8.548	0.000	74	17613	20.0	29.5	
109 4-Ethyltoluene	105	8.596	8.596	0.000	97	227809	20.0	17.8	
110 2-Chlorotoluene	91	8.602	8.602	0.000	97	196897	20.0	18.1	
111 1,3,5-Trimethylbenzene	105	8.633	8.633	0.000	92	192326	20.0	18.0	
113 4-Chlorotoluene	91	8.669	8.669	0.000	96	173856	20.0	18.6	
112 Butyl Methacrylate	87	8.669	8.669	0.000	68	69954	20.0	17.7	
114 tert-Butylbenzene	119	8.810	8.810	0.000	91	144526	20.0	16.7	
115 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	99	195761	20.0	17.7	
116 sec-Butylbenzene	105	8.938	8.938	0.000	98	233059	20.0	17.2	
117 4-Isopropyltoluene	119	9.011	9.011	0.000	97	203198	20.0	17.5	
118 1,3-Dichlorobenzene	146	9.029	9.029	0.000	94	112728	20.0	17.1	
* 119 1,4-Dichlorobenzene-d4	152	9.072	9.072	0.000	97	158226	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.084	9.084	0.000	91	114398	20.0	16.7	
136 1,2,3-Trimethylbenzene	105	9.084	9.084	0.000	98	215750	20.0	17.8	
121 Benzyl chloride	91	9.163	9.163	0.000	97	110274	20.0	18.2	
122 2,3-Dihydroindene	117	9.206	9.206	0.000	92	231072	20.0	17.8	
123 p-Diethylbenzene	119	9.224	9.224	0.000	92	135241	20.0	18.1	
124 n-Butylbenzene	92	9.236	9.236	0.000	97	122581	20.0	18.3	
125 1,2-Dichlorobenzene	146	9.303	9.303	0.000	93	109654	20.0	16.9	
126 1,2,4,5-Tetramethylbenzene	119	9.700	9.700	0.000	97	191470	20.0	17.3	
127 1,2-Dibromo-3-Chloropropan	75	9.791	9.791	0.000	88	11808	20.0	17.6	
128 1,3,5-Trichlorobenzene	180	9.883	9.883	0.000	95	78813	20.0	16.0	
129 1,2,4-Trichlorobenzene	180	10.340	10.340	0.000	93	71137	20.0	16.3	
130 Hexachlorobutadiene	225	10.413	10.413	0.000	90	32574	20.0	15.9	
131 Naphthalene	128	10.553	10.553	0.000	98	168688	20.0	16.1	
132 1,2,3-Trichlorobenzene	180	10.754	10.754	0.000	93	60597	20.0	15.5	
S 133 1,2-Dichloroethene, Total	100				0		40.0	35.4	
S 134 Xylenes, Total	100				0		40.0	35.4	
S 135 Total BTEX	1				0		100.0	89.8	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

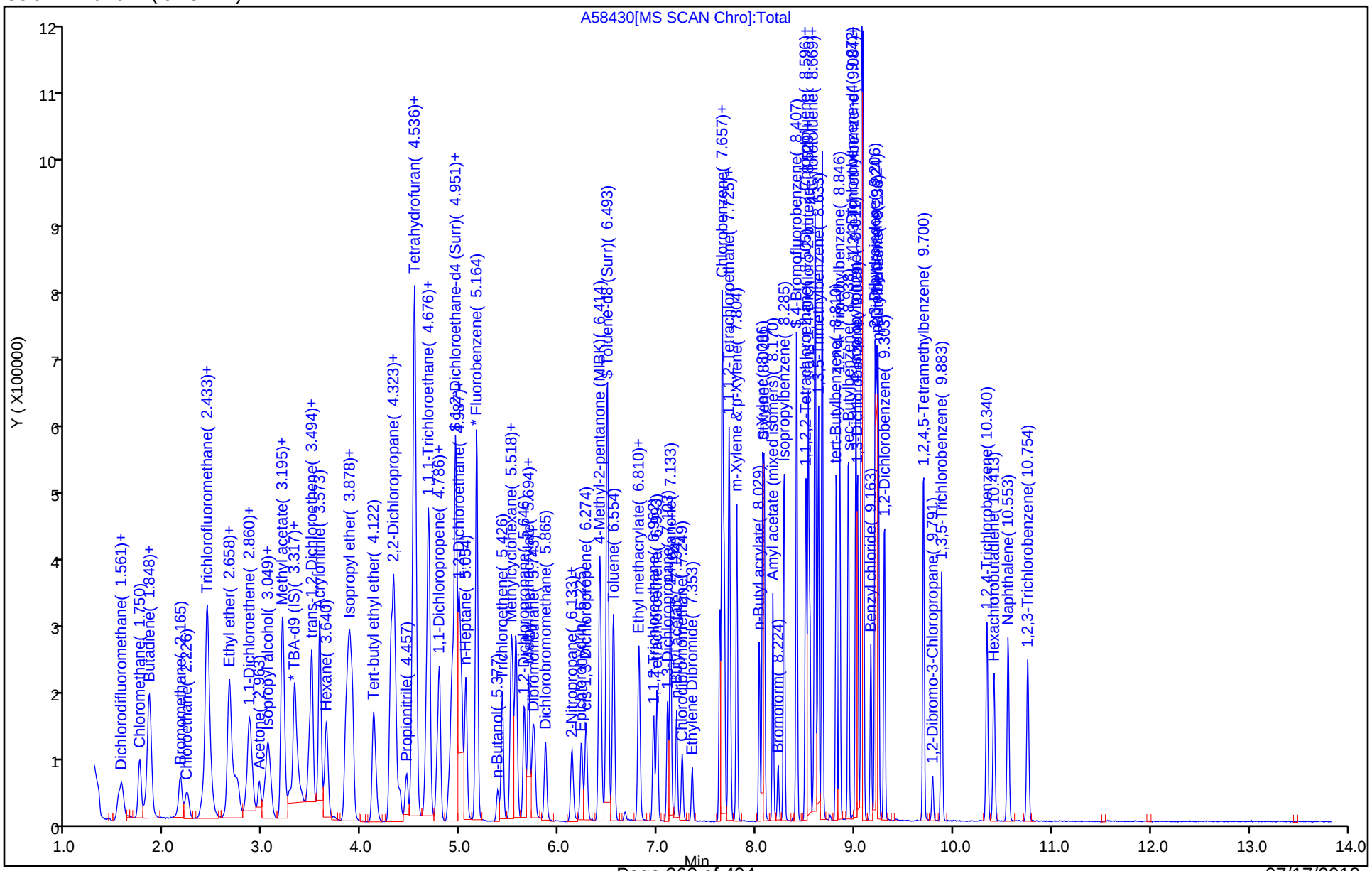
Report Date: 09-Jul-2018 06:46:35 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58430.D

Injection Date:	08-Jul-2018 18:28:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	CCVIS			Worklist Smp#:	3
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	2
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

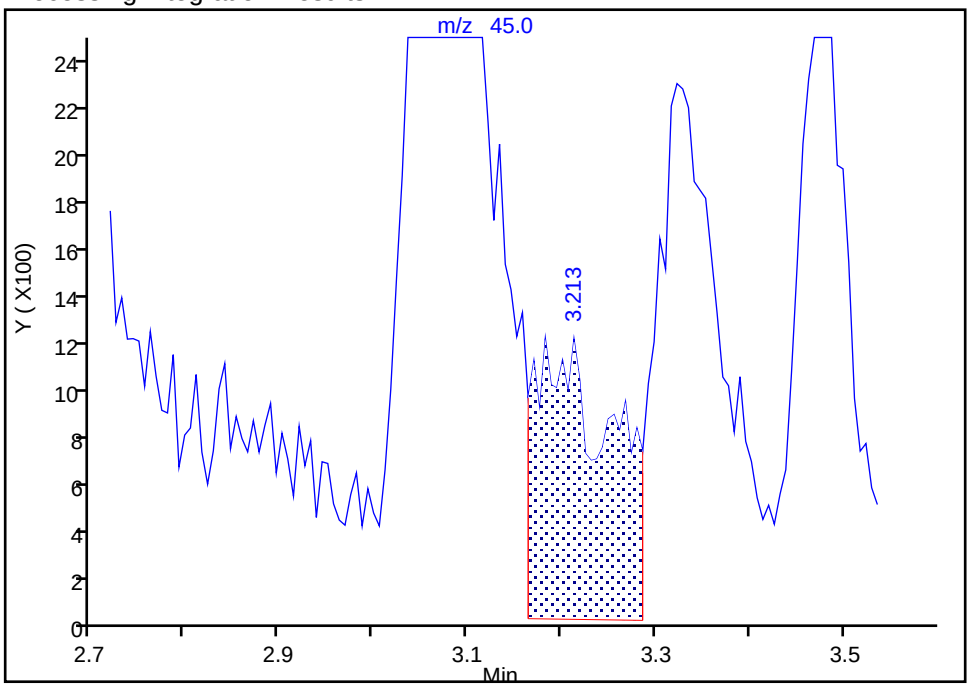
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58430.D
Injection Date: 08-Jul-2018 18:28:30 Instrument ID: CVOAMS1
Lims ID: CCVIS
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

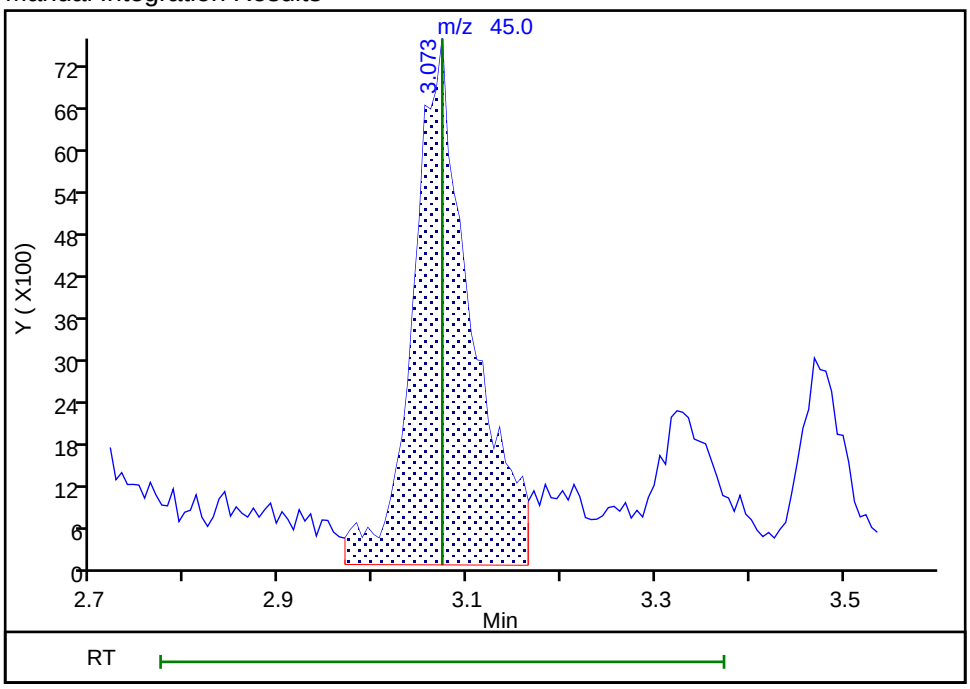
Processing Integration Results

RT: 3.21
Area: 6675
Amount: 38.424628
Amount Units: ug/l



Manual Integration Results

RT: 3.07
Area: 32088
Amount: 184.7145
Amount Units: ug/l



Reviewer: starzecm, 08-Jul-2018 19:32:43
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

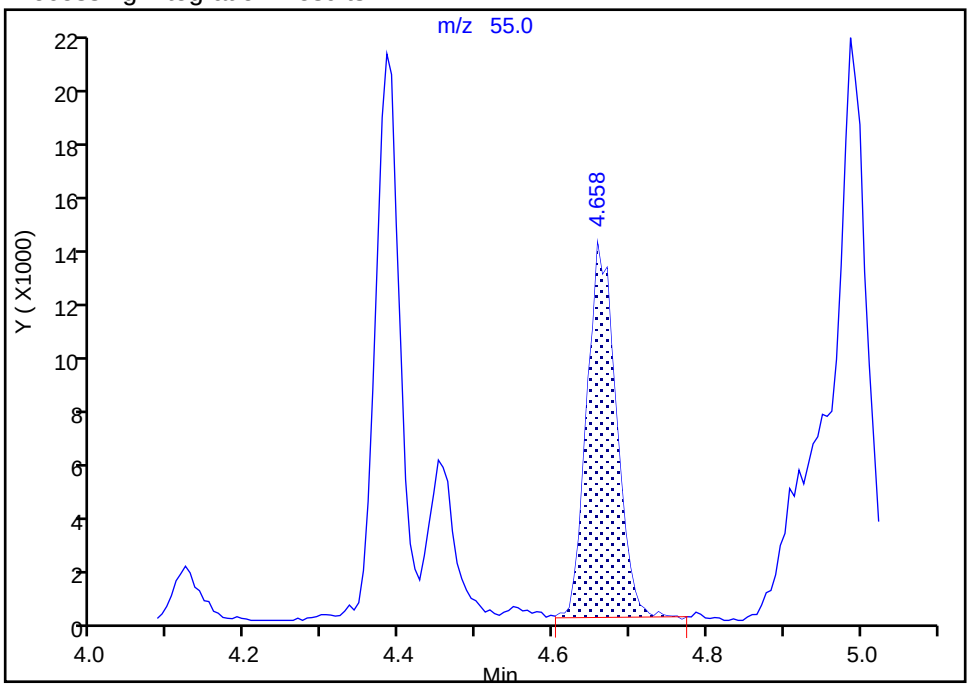
Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58430.D
Injection Date: 08-Jul-2018 18:28:30 Instrument ID: CVOAMS1
Lims ID: CCVIS
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

44 Methyl acrylate, CAS: 96-33-3

Signal: 1

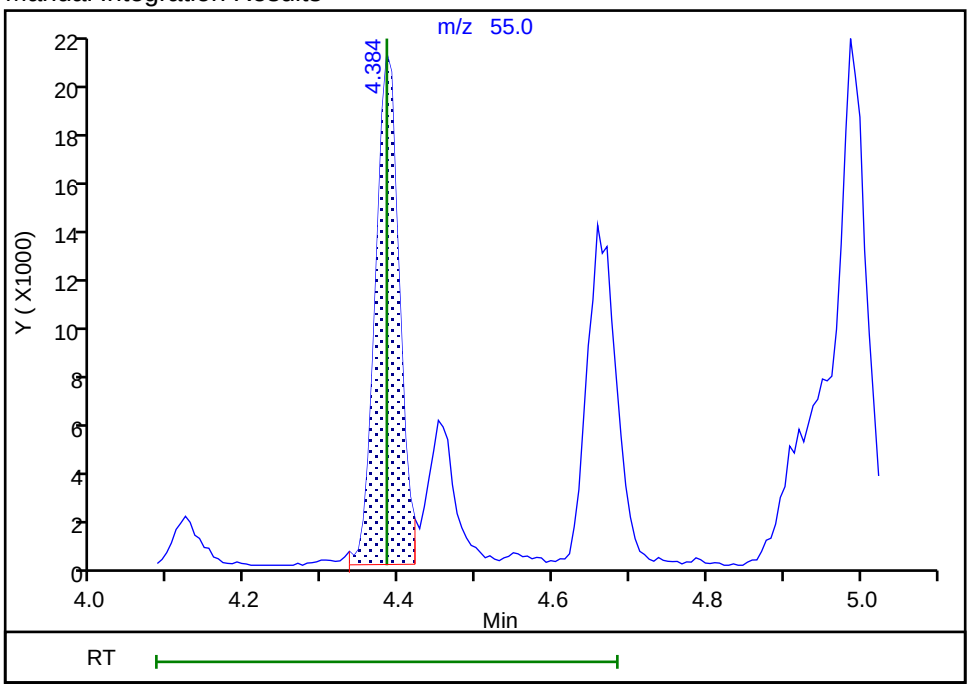
Processing Integration Results

RT: 4.66
Area: 37198
Amount: 12.714223
Amount Units: ug/l



Manual Integration Results

RT: 4.38
Area: 46097
Amount: 15.755888
Amount Units: ug/l



Reviewer: maheseep, 09-Jul-2018 16:12:25
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535216/2 Calibration Date: 07/11/2018 07:22

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86412.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2410	0.2235		18.5	20.0	-7.3	20.0
Dichlorodifluoromethane	Ave	0.5018	0.4394	0.1000	17.5	20.0	-12.4	20.0
Chloromethane	Ave	0.4127	0.3885	0.1000	18.8	20.0	-5.9	20.0
Vinyl chloride	Ave	0.4237	0.4028	0.1000	19.0	20.0	-4.9	20.0
Butadiene	Ave	0.3369	0.3384		20.1	20.0	0.4	20.0
Bromomethane	Ave	0.3874	0.3189	0.1000	16.5	20.0	-17.7	50.0
Chloroethane	Ave	0.2286	0.2126	0.1000	18.6	20.0	-7.0	50.0
Trichlorofluoromethane	Ave	0.6711	0.5514	0.1000	16.4	20.0	-17.8	20.0
Dichlorofluoromethane	Ave	0.6365	0.5699		17.9	20.0	-10.5	20.0
Pentane	Ave	1.546	1.307		33.8	40.0	-15.5	20.0
Ethanol	Ave	0.0410	0.0438		854	800	6.7	50.0
Ethyl ether	Ave	0.1956	0.2234		22.8	20.0	14.2	20.0
2-Methyl-1,3-butadiene	Ave	0.2101	0.2664		25.4	20.0	26.8*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3305	0.3720		22.5	20.0	12.6	20.0
Acrolein	Ave	1.062	0.7605		215	300	-28.4	50.0
1,1-Dichloroethene	Ave	0.3248	0.3534	0.1000	21.8	20.0	8.8	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3569	0.4224	0.1000	23.7	20.0	18.3	20.0
Acetone	Ave	1.021	0.9538	0.0500	93.4	100	-6.6	50.0
Iodomethane	Ave	0.7820	0.7939		20.3	20.0	1.5	20.0
Carbon disulfide	Ave	1.053	1.172	0.1000	22.3	20.0	11.3	50.0
Isopropyl alcohol	Ave	0.6861	0.7455		217	200	8.7	50.0
Allyl chloride	Ave	0.1887	0.2253		23.9	20.0	19.4	20.0
Methyl acetate	Ave	5.167	5.237	0.1000	40.5	40.0	1.3	20.0
Cyclopentene	Ave	0.6331	0.8012		25.3	20.0	26.5*	20.0
Acetonitrile	Ave	1.290	1.397		217	200	8.3	20.0
Methylene Chloride	Ave	0.3653	0.3848	0.1000	21.1	20.0	5.3	20.0
2-Methyl-2-propanol	Ave	1.483	1.393		188	200	-6.1	50.0
Methyl tert-butyl ether	Ave	0.9275	0.9715	0.1000	21.0	20.0	4.8	20.0
trans-1,2-Dichloroethene	Ave	0.3514	0.3730	0.1000	21.2	20.0	6.2	20.0
Acrylonitrile	Ave	0.0851	0.1085		255	200	27.5*	20.0
Hexane	Ave	0.1986	0.2678		27.0	20.0	34.8*	20.0
Isopropyl ether	Ave	0.7403	0.9228		24.9	20.0	24.7*	20.0
1,1-Dichloroethane	Ave	0.5159	0.5958	0.2000	23.1	20.0	15.5	20.0
Vinyl acetate	Ave	1.939	1.571		32.4	40.0	-19.0	20.0
2-Chloro-1,3-butadiene	Ave	0.2863	0.3279		22.9	20.0	14.5	20.0
Tert-butyl ethyl ether	Ave	0.8678	0.9576		22.1	20.0	10.4	20.0
2,2-Dichloropropane	Ave	0.1645	0.1727		21.0	20.0	5.0	20.0
cis-1,2-Dichloroethene	Ave	0.4162	0.4372	0.1000	21.0	20.0	5.0	20.0
2-Butanone (MEK)	Ave	0.4654	0.3796	0.0500	81.6	100	-18.4	50.0
Ethyl acetate	Qua2		0.3222		34.3	40.0	-14.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535216/2 Calibration Date: 07/11/2018 07:22

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86412.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2042	0.2295		22.5	20.0	12.4	20.0
Propionitrile	Ave	1.241	1.213		195	200	-2.3	20.0
Chlorobromomethane	Ave	0.2340	0.2258		19.3	20.0	-3.5	20.0
Tetrahydrofuran	Ave	0.5339	0.4678		35.1	40.0	-12.4	20.0
Methacrylonitrile	Ave	0.1065	0.1240		233	200	16.4	20.0
Chloroform	Ave	0.6286	0.6469	0.2000	20.6	20.0	2.9	20.0
Cyclohexane	Ave	0.4612	0.5395	0.1000	23.4	20.0	17.0	50.0
1,1,1-Trichloroethane	Ave	0.6023	0.6178	0.1000	20.5	20.0	2.6	20.0
Carbon tetrachloride	Ave	0.5343	0.5289	0.1000	19.8	20.0	-1.0	20.0
1,1-Dichloropropene	Ave	0.4272	0.4710		22.0	20.0	10.2	20.0
Isobutyl alcohol	Ave	0.0569	0.0522		459	500	-8.2	50.0
Benzene	Ave	1.438	1.616	0.5000	22.5	20.0	12.4	20.0
Isopropyl acetate	Ave	0.7967	0.9296		23.3	20.0	16.7	20.0
Tert-amyl methyl ether	Ave	0.3124	0.3195		20.5	20.0	2.3	20.0
1,2-Dichloroethane	Ave	0.4476	0.4168	0.1000	18.6	20.0	-6.9	20.0
n-Heptane	Ave	0.2317	0.2713		23.4	20.0	17.1	20.0
n-Butanol	Ave	0.3028	0.2797		462	500	-7.6	50.0
Trichloroethene	Ave	0.3550	0.3711	0.2000	20.9	20.0	4.5	20.0
Ethyl acrylate	Ave	0.1800	0.2116		23.5	20.0	17.5	20.0
Methylcyclohexane	Ave	0.5834	0.6905	0.1000	23.7	20.0	18.4	50.0
1,2-Dichloropropane	Ave	0.2717	0.3083	0.1000	22.7	20.0	13.5	20.0
Methyl methacrylate	Ave	0.1691	0.1871		44.3	40.0	10.7	20.0
1,4-Dioxane	Ave	1.490	1.421		382	400	-4.6	50.0
n-Propyl acetate	Ave	0.3107	0.3713		23.9	20.0	19.5	20.0
Dibromomethane	Ave	0.2306	0.2243		19.5	20.0	-2.7	20.0
Bromodichloromethane	Ave	0.4457	0.4220	0.2000	18.9	20.0	-5.3	20.0
2-Chloroethyl vinyl ether	Ave	0.1452	0.1552		21.4	20.0	6.9	20.0
2-Nitropropane	Ave	0.0569	0.0488		34.3	40.0	-14.3	20.0
Epichlorohydrin	Ave	0.3286	0.2926		356	400	-11.0	20.0
cis-1,3-Dichloropropene	Ave	0.5487	0.5693	0.2000	20.8	20.0	3.8	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.056	2.919	0.0500	95.5	100	-4.5	50.0
Toluene	Ave	1.672	1.744	0.4000	20.9	20.0	4.3	20.0
trans-1,3-Dichloropropene	Ave	0.4988	0.4886	0.1000	19.6	20.0	-2.0	50.0
Ethyl methacrylate	Ave	0.3971	0.4235		21.3	20.0	6.6	20.0
1,1,2-Trichloroethane	Ave	0.2573	0.2735	0.1000	21.3	20.0	6.3	20.0
Tetrachloroethene	Ave	0.5497	0.5527	0.2000	20.1	20.0	0.5	20.0
1,3-Dichloropropane	Ave	0.4719	0.4999		21.2	20.0	5.9	20.0
2-Hexanone	Ave	1.955	1.813	0.0500	92.7	100	-7.3	50.0
n-Butyl acetate	Ave	0.3821	0.4668		24.4	20.0	22.2*	20.0
Dibromochloromethane	Ave	0.4059	0.3706	0.1000	18.3	20.0	-8.7	50.0
1,2-Dibromoethane	Ave	0.3606	0.3571	0.1000	19.8	20.0	-1.0	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535216/2 Calibration Date: 07/11/2018 07:22

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86412.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.178	1.163	0.5000	19.7	20.0	-1.3	20.0
Ethylbenzene	Ave	0.6370	0.6622	0.1000	20.8	20.0	4.0	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4892	0.4647		19.0	20.0	-5.0	20.0
m-Xylene & p-Xylene	Ave	0.7829	0.8089	0.1000	20.7	20.0	3.3	20.0
n-Butyl acrylate	Ave	0.2369	0.2568		21.7	20.0	8.4	20.0
o-Xylene	Ave	0.8220	0.8345	0.3000	20.3	20.0	1.5	20.0
Styrene	Ave	1.258	1.299	0.3000	20.7	20.0	3.3	20.0
Bromoform	Ave	0.2744	0.2290	0.1000	16.7	20.0	-16.6	20.0
Isopropylbenzene	Ave	2.133	2.273	0.1000	21.3	20.0	6.5	20.0
Bromobenzene	Ave	0.9751	0.9512		19.5	20.0	-2.5	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6941	0.7658	0.3000	22.1	20.0	10.3	20.0
N-Propylbenzene	Ave	3.602	4.071		22.6	20.0	13.0	20.0
1,2,3-Trichloropropane	Ave	0.2177	0.2234		20.5	20.0	2.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1613	0.1641		20.3	20.0	1.7	20.0
2-Chlorotoluene	Ave	2.510	2.682		21.4	20.0	6.8	20.0
4-Ethyltoluene	Ave	3.277	3.508		21.4	20.0	7.0	20.0
1,3,5-Trimethylbenzene	Ave	2.870	3.007		21.0	20.0	4.8	20.0
4-Chlorotoluene	Ave	2.096	2.254		21.5	20.0	7.6	20.0
Butyl Methacrylate	Ave	0.8115	0.8490		20.9	20.0	4.6	20.0
tert-Butylbenzene	Ave	2.440	2.524		20.7	20.0	3.5	20.0
1,2,4-Trimethylbenzene	Ave	2.997	3.105		20.7	20.0	3.6	20.0
sec-Butylbenzene	Ave	3.676	4.012		21.8	20.0	9.1	20.0
4-Isopropyltoluene	Ave	3.434	3.635		21.2	20.0	5.9	20.0
1,3-Dichlorobenzene	Ave	1.852	1.831	0.6000	19.8	20.0	-1.2	20.0
1,4-Dichlorobenzene	Ave	1.874	1.822	0.5000	19.4	20.0	-2.8	20.0
Benzyl chloride	Ave	1.459	1.597		21.9	20.0	9.4	50.0
Indan	Ave	3.204	3.287		20.5	20.0	2.6	20.0
p-Diethylbenzene	Ave	1.987	2.162		21.8	20.0	8.8	20.0
n-Butylbenzene	Ave	1.601	1.828		22.8	20.0	14.2	20.0
1,2-Dichlorobenzene	Ave	1.874	1.859	0.4000	19.8	20.0	-0.8	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.438	3.468		20.2	20.0	0.9	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1430	0.1438	0.0500	20.1	20.0	0.5	50.0
1,3,5-Trichlorobenzene	Ave	1.713	1.718		20.1	20.0	0.3	20.0
1,2,4-Trichlorobenzene	Ave	1.630	1.561	0.2000	19.2	20.0	-4.2	20.0
Hexachlorobutadiene	Ave	0.7975	0.8018		20.1	20.0	0.5	20.0
Naphthalene	Ave	3.400	3.451		20.3	20.0	1.5	50.0
1,2,3-Trichlorobenzene	Ave	1.573	1.524		19.4	20.0	-3.1	20.0
Dibromofluoromethane (Surr)	Ave	0.3441	0.3556		51.7	50.0	3.4	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3197	0.3085		48.3	50.0	-3.5	20.0
Toluene-d8 (Surr)	Ave	1.328	1.404		52.9	50.0	5.8	20.0
4-Bromofluorobenzene	Ave	0.5371	0.5200		48.4	50.0	-3.2	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Jul-2018 07:22:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075237-002
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 10:52:09 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 10:31:01

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.608	1.608	0.000	86	55249	20.0	18.5	
2 Dichlorodifluoromethane	85	1.645	1.645	0.000	98	108600	20.0	17.5	
3 Chloromethane	50	1.821	1.821	0.000	99	96016	20.0	18.8	
4 Vinyl chloride	62	1.913	1.913	0.000	98	99555	20.0	19.0	
5 Butadiene	54	1.937	1.937	0.000	84	83649	20.0	20.1	
6 Bromomethane	94	2.212	2.212	0.000	98	78823	20.0	16.5	
7 Chloroethane	64	2.279	2.279	0.000	98	52538	20.0	18.6	
8 Trichlorofluoromethane	101	2.455	2.455	0.000	95	136284	20.0	16.4	
9 Dichlorofluoromethane	67	2.474	2.474	0.000	98	140856	20.0	17.9	
10 Pentane	72	2.504	2.504	0.000	98	23625	40.0	33.8	
12 Ethanol	46	2.693	2.693	0.000	71	15835	800.0	853.9	
11 Ethyl ether	59	2.699	2.699	0.000	95	55224	20.0	22.8	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	94	65854	20.0	25.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.742	0.000	93	91957	20.0	22.5	
15 Acrolein	56	2.882	2.882	0.000	97	103131	300.0	214.8	
17 1,1-Dichloroethene	96	2.919	2.919	0.000	97	87351	20.0	21.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	93	104404	20.0	23.7	
18 Acetone	43	3.004	3.004	0.000	86	114642	100.0	93.4	
19 Iodomethane	142	3.077	3.077	0.000	97	196239	20.0	20.3	
20 Carbon disulfide	76	3.120	3.120	0.000	98	289768	20.0	22.3	
22 Isopropyl alcohol	45	3.132	3.132	0.000	98	67397	200.0	217.3	a
21 3-Chloro-1-propene	76	3.242	3.242	0.000	88	55690	20.0	23.9	
23 Methyl acetate	43	3.248	3.248	0.000	92	94691	40.0	40.5	
24 Cyclopentene	67	3.266	3.266	0.000	91	198032	20.0	25.3	
29 Acetonitrile	41	3.321	3.321	0.000	96	126296	200.0	216.7	a
26 Methylene Chloride	84	3.376	3.376	0.000	87	95115	20.0	21.1	
* 25 TBA-d9 (IS)	65	3.388	3.388	0.000	0	452031	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.443	3.443	0.000	93	125930	200.0	187.8	
28 Methyl tert-butyl ether	73	3.535	3.535	0.000	95	240146	20.0	21.0	
30 trans-1,2-Dichloroethene	96	3.565	3.565	0.000	91	92209	20.0	21.2	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.638	3.638	0.000	93	268066	200.0	254.9	
32 Hexane	43	3.717	3.717	0.000	92	66187	20.0	27.0	
33 Isopropyl ether	45	3.925	3.925	0.000	94	228096	20.0	24.9	
34 1,1-Dichloroethane	63	3.973	3.973	0.000	74	147276	20.0	23.1	
35 Vinyl acetate	86	3.973	3.973	0.000	100	28398	40.0	32.4	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	89	81057	20.0	22.9	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	89	236701	20.0	22.1	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	300495	250.0	250.0	
39 2,2-Dichloropropane	79	4.479	4.479	0.000	89	42696	20.0	21.0	
40 cis-1,2-Dichloroethene	96	4.504	4.504	0.000	74	108074	20.0	21.0	
41 Ethyl acetate	70	4.510	4.510	0.000	88	15491	40.0	34.3	
42 2-Butanone (MEK)	72	4.510	4.510	0.000	96	45631	100.0	81.6	
44 Methyl acrylate	55	4.565	4.565	0.000	98	56721	20.0	22.5	
43 Propionitrile	54	4.644	4.644	0.000	98	109622	200.0	195.4	
46 Chlorobromomethane	128	4.729	4.729	0.000	70	55818	20.0	19.3	
45 Tetrahydrofuran	72	4.736	4.736	0.000	30	22493	40.0	35.1	a
47 Methacrylonitrile	67	4.748	4.748	0.000	90	306374	200.0	232.7	
48 Chloroform	83	4.778	4.778	0.000	99	159909	20.0	20.6	
49 Cyclohexane	84	4.925	4.925	0.000	88	133341	20.0	23.4	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	152712	20.0	20.5	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.943	0.000	97	219738	50.0	51.7	
52 Carbon tetrachloride	117	5.059	5.059	0.000	96	130720	20.0	19.8	
53 1,1-Dichloropropene	75	5.083	5.083	0.000	97	116427	20.0	22.0	
56 Isobutyl alcohol	74	5.205	5.205	0.000	3	11801	500.0	458.8	a
54 Benzene	78	5.284	5.284	0.000	95	335547	20.0	22.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	190659	50.0	48.3	
57 Isopropyl acetate	43	5.327	5.327	0.000	97	229774	20.0	23.3	
58 Tert-amyl methyl ether	87	5.333	5.333	0.000	91	78962	20.0	20.5	
59 1,2-Dichloroethane	62	5.376	5.376	0.000	97	103013	20.0	18.6	
60 n-Heptane	57	5.431	5.431	0.000	89	67071	20.0	23.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	617950	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	89	63216	500.0	461.9	
63 Trichloroethene	95	5.930	5.930	0.000	95	91719	20.0	20.9	
64 Ethyl acrylate	56	6.065	6.065	0.000	97	52302	20.0	23.5	
65 Methylcyclohexane	83	6.065	6.065	0.000	94	170667	20.0	23.7	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	94	76198	20.0	22.7	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	37419	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	83	92508	40.0	44.3	
69 1,4-Dioxane	88	6.327	6.327	0.000	30	21271	400.0	381.6	
70 n-Propyl acetate	43	6.333	6.333	0.000	97	91787	20.0	23.9	
71 Dibromomethane	93	6.357	6.357	0.000	92	55453	20.0	19.5	
72 Dichlorobromomethane	83	6.503	6.503	0.000	99	104304	20.0	18.9	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	83	38355	20.0	21.4	
74 2-Nitropropane	41	6.839	6.839	0.000	81	24101	40.0	34.3	
75 Epichlorohydrin	57	6.949	6.949	0.000	99	140659	400.0	356.2	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	118179	20.0	20.8	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	350864	100.0	95.5	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	728832	50.0	52.9	
79 Toluene	91	7.333	7.333	0.000	93	361932	20.0	20.9	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	97	101418	20.0	19.6	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	87912	20.0	21.3	
82 1,1,2-Trichloroethane	83	7.900	7.900	0.000	96	56764	20.0	21.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.954	7.954	0.000	96	114728	20.0	20.1	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	103776	20.0	21.2	
85 2-Hexanone	43	8.162	8.162	0.000	94	217967	100.0	92.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	96909	20.0	24.4	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	76936	20.0	18.3	
88 Ethylene Dibromide	107	8.515	8.515	0.000	99	74118	20.0	19.8	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	518962	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	98	241391	20.0	19.7	
92 Ethylbenzene	106	9.186	9.186	0.000	97	137461	20.0	20.8	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.204	0.000	94	96465	20.0	19.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	167905	20.0	20.7	
94 n-Butyl acrylate	73	9.771	9.771	0.000	99	53299	20.0	21.7	
95 o-Xylene	106	9.802	9.802	0.000	94	173238	20.0	20.3	
96 Styrene	104	9.832	9.832	0.000	96	269647	20.0	20.7	
97 Amyl acetate (mixed isomer	43	10.015	10.015	0.000	91	113604	20.0	24.8	
98 Bromoform	173	10.070	10.070	0.000	97	47536	20.0	16.7	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	471736	20.0	21.3	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	269836	50.0	48.4	
101 Bromobenzene	156	10.551	10.551	0.000	85	123141	20.0	19.5	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	99143	20.0	22.1	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	527079	20.0	22.6	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	99	28928	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.649	0.000	77	21248	20.0	20.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	88	347229	20.0	21.4	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	454126	20.0	21.4	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	389302	20.0	21.0	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	291841	20.0	21.5	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	109915	20.0	20.9	
111 tert-Butylbenzene	119	11.094	11.094	0.000	96	326820	20.0	20.7	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	96	402015	20.0	20.7	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	519455	20.0	21.8	
114 4-Isopropyltoluene	119	11.429	11.429	0.000	98	470616	20.0	21.2	
115 1,3-Dichlorobenzene	146	11.442	11.442	0.000	98	237004	20.0	19.8	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	323662	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	235887	20.0	19.4	
118 Benzyl chloride	91	11.655	11.655	0.000	99	206699	20.0	21.9	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	425539	20.0	20.5	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	279954	20.0	21.8	
121 n-Butylbenzene	92	11.783	11.783	0.000	96	236692	20.0	22.8	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	240626	20.0	19.8	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	449025	20.0	20.2	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	91	18610	20.0	20.1	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	222419	20.0	20.1	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	202063	20.0	19.2	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	97	103802	20.0	20.1	
128 Naphthalene	128	13.319	13.319	0.000	99	446736	20.0	20.3	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	95	197343	20.0	19.4	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.2	
S 131 Xylenes, Total	100				0		40.0	41.0	
S 132 Total BTEX	1				0		100.0	105.1	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 10:52:10 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D

Injection Date: 11-Jul-2018 07:22:30 Instrument ID: CVOAMS9 Operator ID:

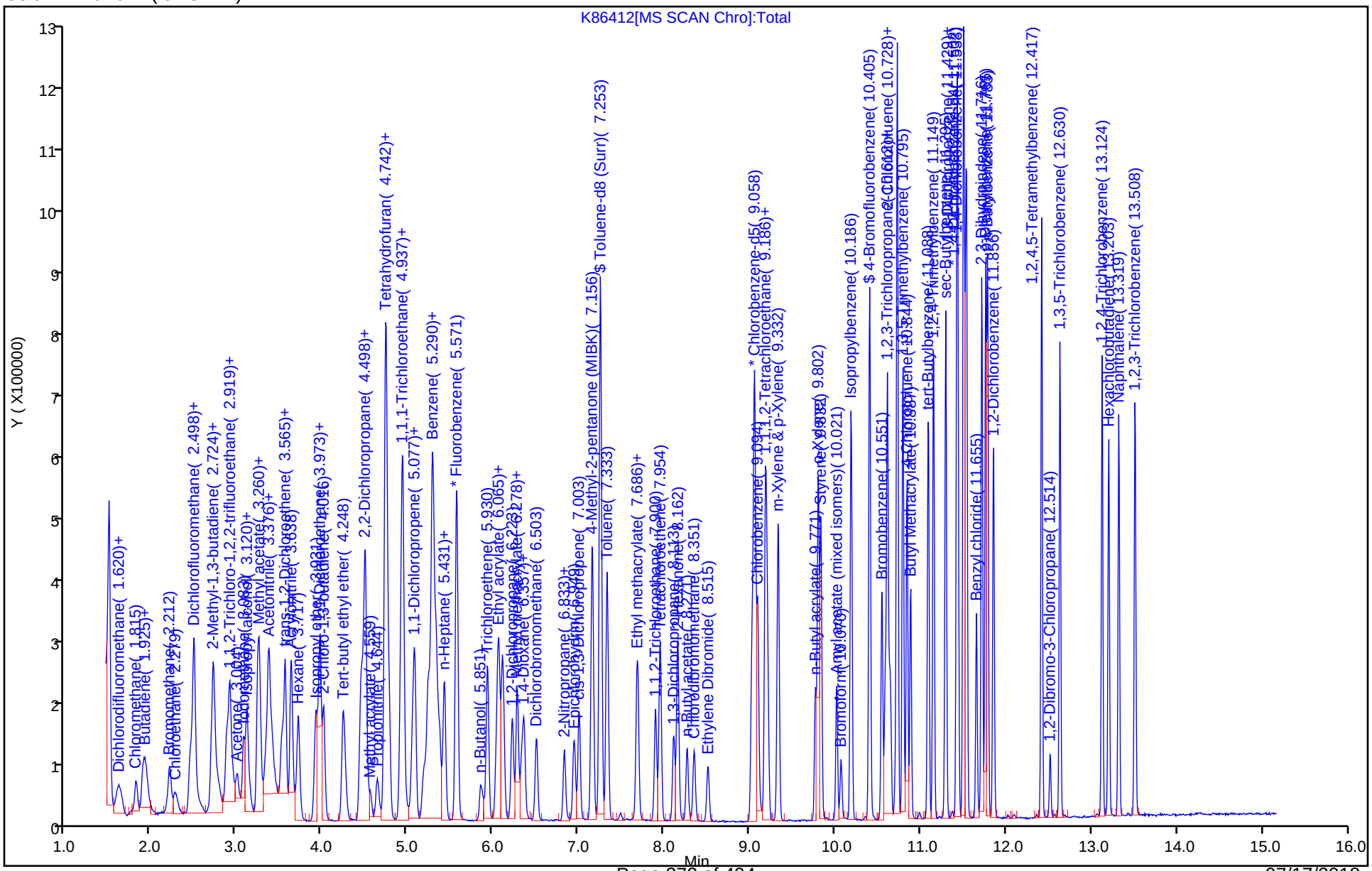
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

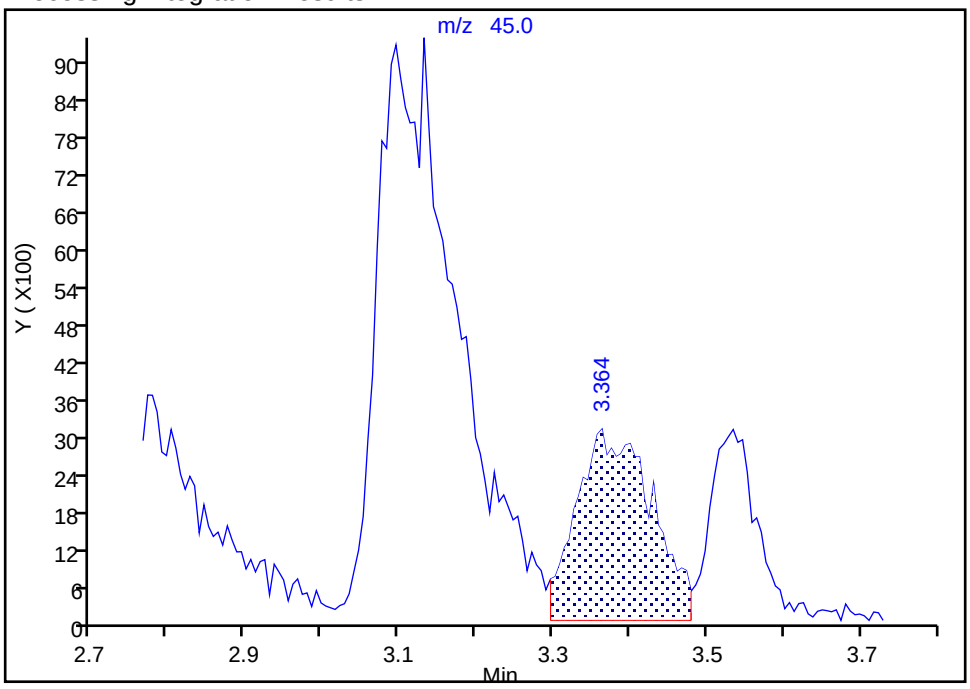
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D
Injection Date: 11-Jul-2018 07:22:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

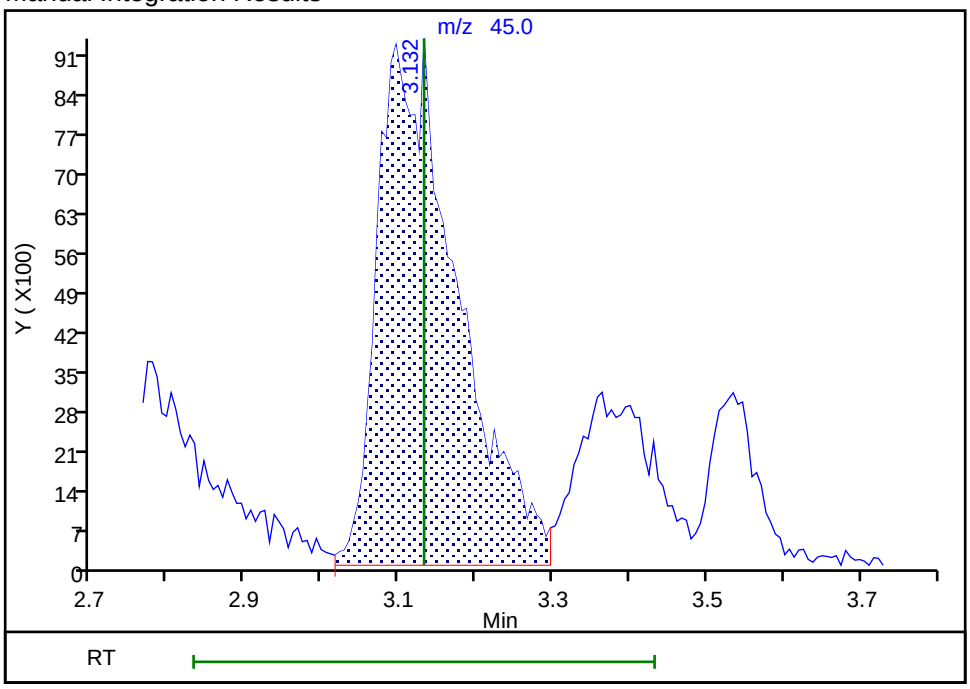
Processing Integration Results

RT: 3.36
Area: 20963
Amount: 67.594871
Amount Units: ug/l



Manual Integration Results

RT: 3.13
Area: 67397
Amount: 217.3206
Amount Units: ug/l



Reviewer: tupayachia, 11-Jul-2018 07:45:41
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

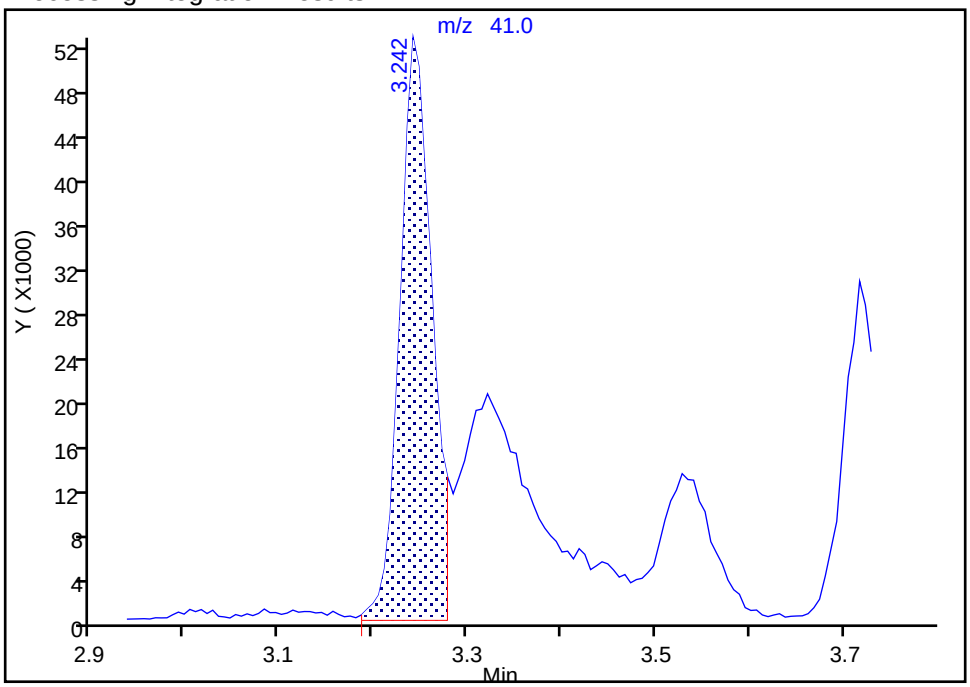
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D
Injection Date: 11-Jul-2018 07:22:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

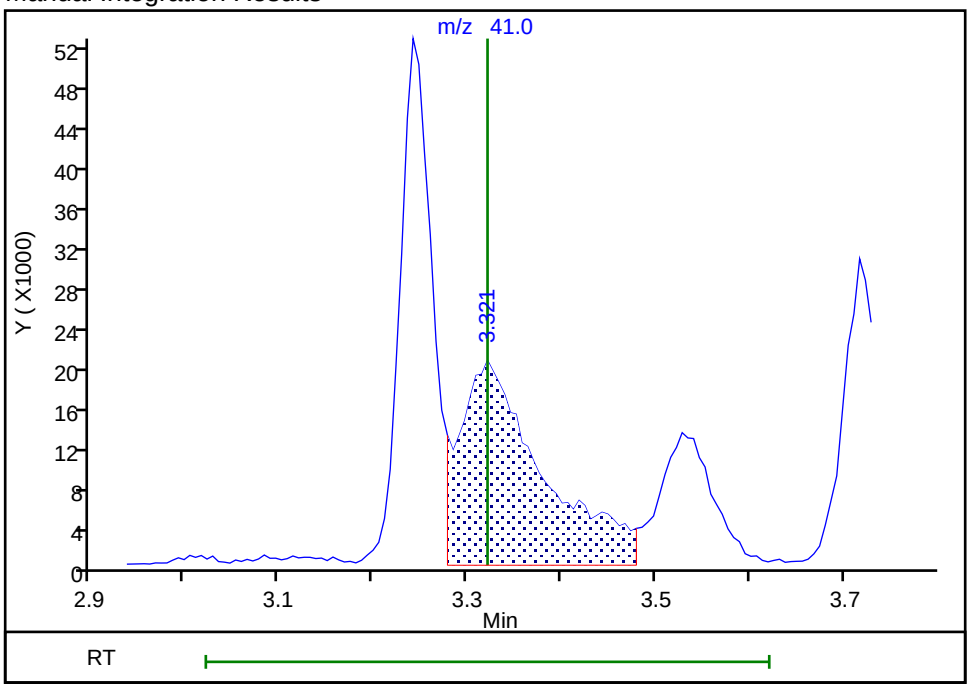
Processing Integration Results

RT: 3.24
Area: 124208
Amount: 213.0881
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 126296
Amount: 216.6702
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 10:29:52
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

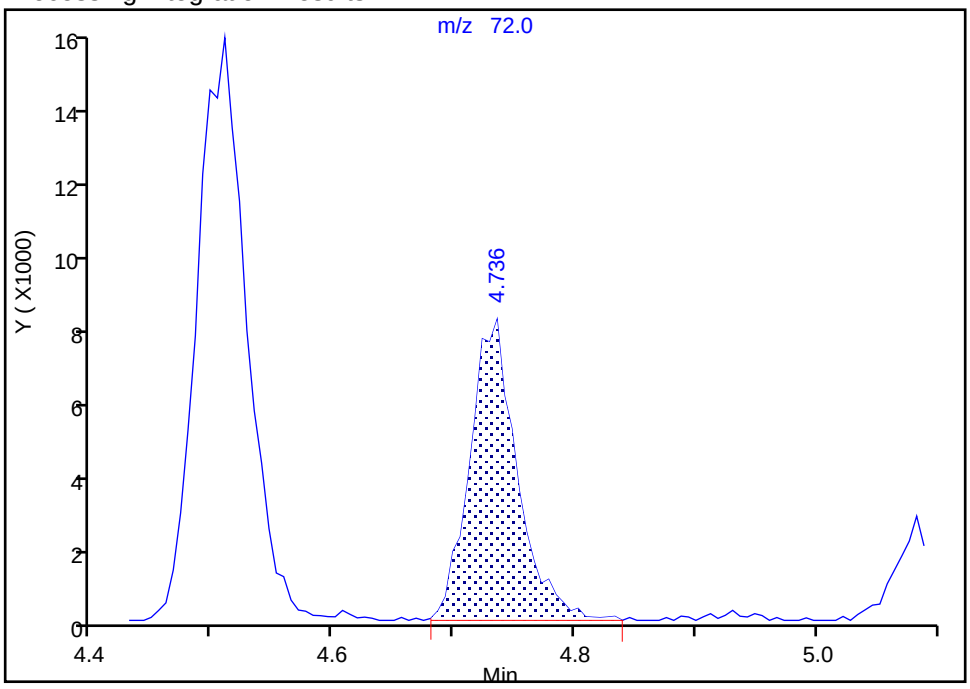
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D
Injection Date: 11-Jul-2018 07:22:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

45 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

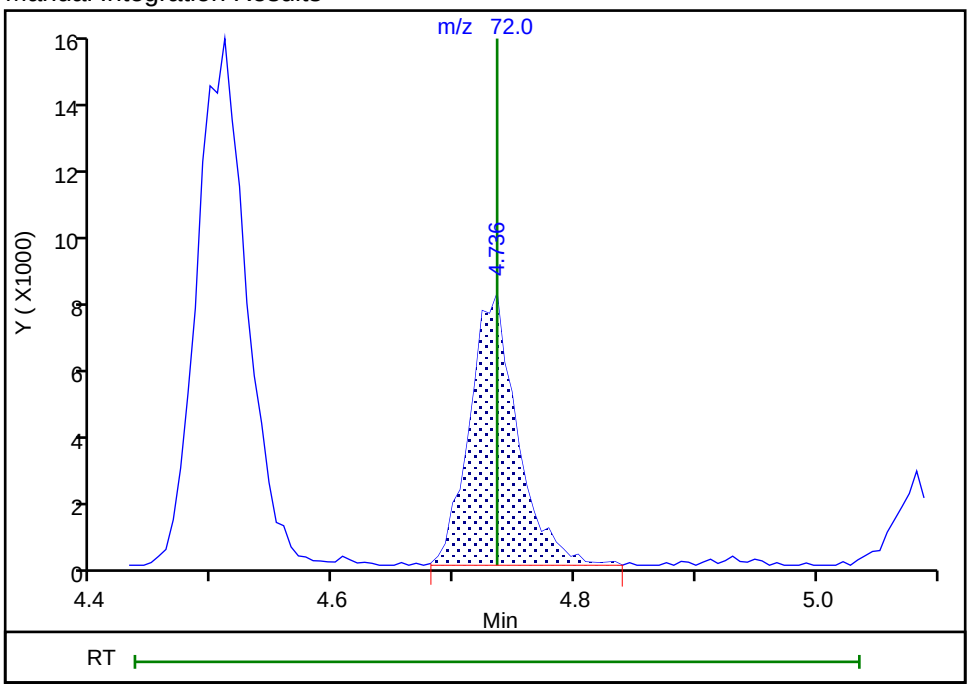
Processing Integration Results

RT: 4.74
Area: 22493
Amount: 35.051939
Amount Units: ug/l



Manual Integration Results

RT: 4.74
Area: 22493
Amount: 35.051939
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 10:30:04
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

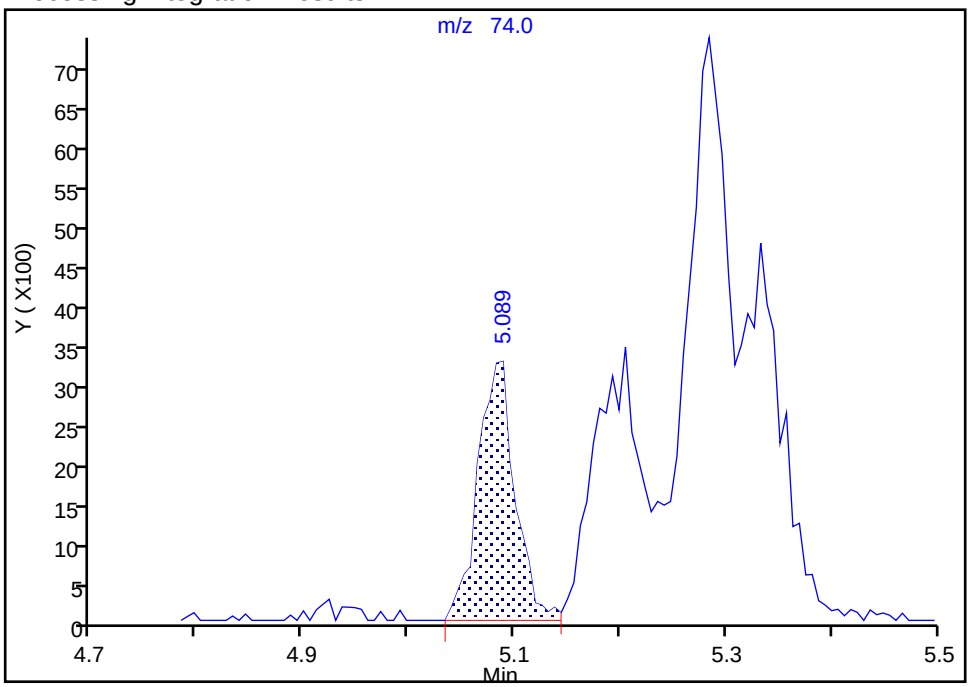
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86412.D
Injection Date: 11-Jul-2018 07:22:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

56 Isobutyl alcohol, CAS: 78-83-1

Signal: 1

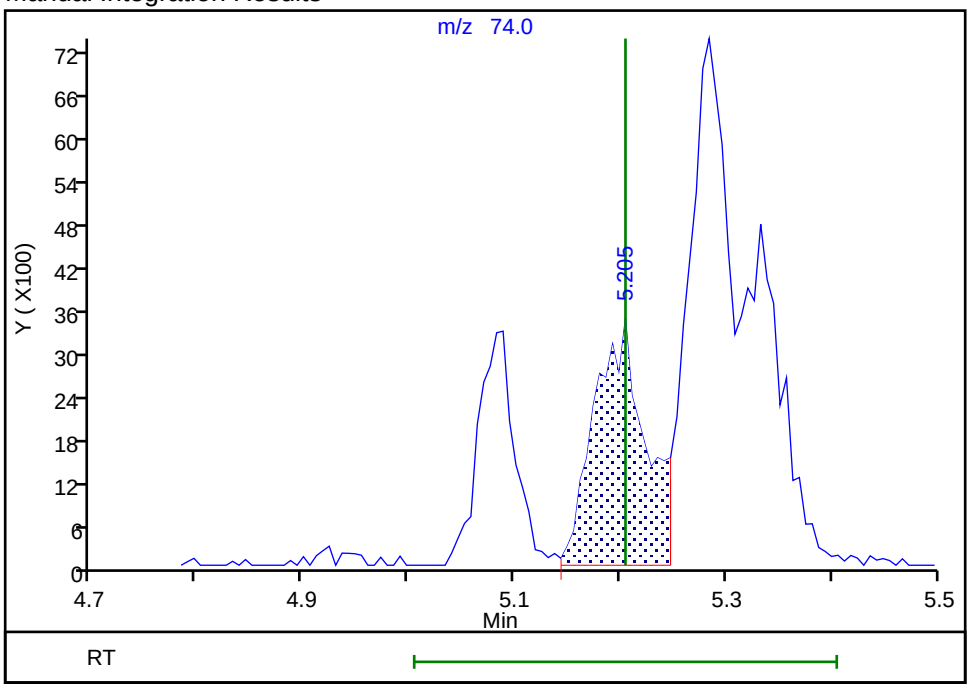
Processing Integration Results

RT: 5.09
Area: 7946
Amount: 308.9541
Amount Units: ug/l



Manual Integration Results

RT: 5.20
Area: 11801
Amount: 458.8431
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 10:30:18
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535482/2 Calibration Date: 07/11/2018 19:42

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86442.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorotrifluoroethene	Ave	0.2410	0.2187		18.1	20.0	-9.3	20.0
Dichlorodifluoromethane	Ave	0.5018	0.5630	0.1000	22.4	20.0	12.2	20.0
Chloromethane	Ave	0.4127	0.4927	0.1000	23.9	20.0	19.4	20.0
Vinyl chloride	Ave	0.4237	0.5027	0.1000	23.7	20.0	18.6	20.0
Butadiene	Ave	0.3369	0.4114		24.4	20.0	22.1*	20.0
Bromomethane	Ave	0.3874	0.4168	0.1000	21.5	20.0	7.6	50.0
Chloroethane	Ave	0.2286	0.2641	0.1000	23.1	20.0	15.5	50.0
Dichlorofluoromethane	Ave	0.6365	0.7384		23.2	20.0	16.0	20.0
Trichlorofluoromethane	Ave	0.6711	0.7382	0.1000	22.0	20.0	10.0	20.0
Pentane	Ave	1.546	1.442		37.3	40.0	-6.7	20.0
Ethanol	Ave	0.0410	0.0531		1040	800	29.5	50.0
Ethyl ether	Ave	0.1956	0.2310		23.6	20.0	18.1	20.0
2-Methyl-1,3-butadiene	Ave	0.2101	0.2626		25.0	20.0	25.0*	20.0
1,2-Dichloro-1,1,2-trifluoro ethane	Ave	0.3305	0.3584		21.7	20.0	8.4	20.0
Acrolein	Ave	1.062	0.8365		236	300	-21.2	50.0
1,1-Dichloroethene	Ave	0.3248	0.3504	0.1000	21.6	20.0	7.9	20.0
1,1,2-Trichloro-1,2,2-triflu oroethane	Ave	0.3569	0.4142	0.1000	23.2	20.0	16.1	20.0
Acetone	Ave	1.021	0.9633	0.0500	94.3	100	-5.7	50.0
Iodomethane	Ave	0.7820	0.8174		20.9	20.0	4.5	20.0
Isopropyl alcohol	Ave	0.6861	0.7770		226	200	13.2	50.0
Carbon disulfide	Ave	1.053	1.181	0.1000	22.4	20.0	12.1	50.0
Allyl chloride	Ave	0.1887	0.2143		22.7	20.0	13.6	20.0
Methyl acetate	Ave	5.167	5.639	0.1000	43.6	40.0	9.1	20.0
Cyclopentene	Ave	0.6331	0.7776		24.6	20.0	22.8*	20.0
Acetonitrile	Ave	1.290	1.405		218	200	9.0	20.0
Methylene Chloride	Ave	0.3653	0.3976	0.1000	21.8	20.0	8.8	20.0
2-Methyl-2-propanol	Ave	1.483	1.463		197	200	-1.4	50.0
Methyl tert-butyl ether	Ave	0.9275	1.007	0.1000	21.7	20.0	8.6	20.0
trans-1,2-Dichloroethene	Ave	0.3514	0.3855	0.1000	21.9	20.0	9.7	20.0
Acrylonitrile	Ave	0.0851	0.1118		263	200	31.4*	20.0
Hexane	Ave	0.1986	0.2529		25.5	20.0	27.3*	20.0
Isopropyl ether	Ave	0.7403	0.9594		25.9	20.0	29.6*	20.0
Vinyl acetate	Ave	1.939	1.617		33.4	40.0	-16.6	20.0
1,1-Dichloroethane	Ave	0.5159	0.5970	0.2000	23.1	20.0	15.7	20.0
2-Chloro-1,3-butadiene	Ave	0.2863	0.3236		22.6	20.0	13.0	20.0
Tert-butyl ethyl ether	Ave	0.8678	0.9772		22.5	20.0	12.6	20.0
2,2-Dichloropropane	Ave	0.1645	0.1774		21.6	20.0	7.8	20.0
Ethyl acetate	Qua2		0.3604		38.6	40.0	-3.5	20.0
2-Butanone (MEK)	Ave	0.4654	0.4206	0.0500	90.4	100	-9.6	50.0
cis-1,2-Dichloroethene	Ave	0.4162	0.4420	0.1000	21.2	20.0	6.2	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535482/2 Calibration Date: 07/11/2018 19:42

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86442.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methyl acrylate	Ave	0.2042	0.2546		24.9	20.0	24.7*	20.0
Propionitrile	Ave	1.241	1.299		209	200	4.6	20.0
Chlorobromomethane	Ave	0.2340	0.2349		20.1	20.0	0.4	20.0
Tetrahydrofuran	Ave	0.5339	0.4798		35.9	40.0	-10.1	20.0
Methacrylonitrile	Ave	0.1065	0.1281		241	200	20.3*	20.0
Chloroform	Ave	0.6286	0.6536	0.2000	20.8	20.0	4.0	20.0
Cyclohexane	Ave	0.4612	0.5408	0.1000	23.5	20.0	17.3	50.0
1,1,1-Trichloroethane	Ave	0.6023	0.6249	0.1000	20.8	20.0	3.8	20.0
Carbon tetrachloride	Ave	0.5343	0.5272	0.1000	19.7	20.0	-1.3	20.0
1,1-Dichloropropene	Ave	0.4272	0.4679		21.9	20.0	9.5	20.0
Isobutyl alcohol	Ave	0.0569	0.0538		473	500	-5.5	50.0
Benzene	Ave	1.438	1.623	0.5000	22.6	20.0	12.9	20.0
Isopropyl acetate	Ave	0.7967	0.9549		24.0	20.0	19.9	20.0
Tert-amyl methyl ether	Ave	0.3124	0.3211		20.6	20.0	2.8	20.0
1,2-Dichloroethane	Ave	0.4476	0.4286	0.1000	19.1	20.0	-4.3	20.0
n-Heptane	Ave	0.2317	0.2815		24.3	20.0	21.5*	20.0
n-Butanol	Ave	0.3028	0.3045		503	500	0.6	50.0
Trichloroethene	Ave	0.3550	0.3747	0.2000	21.1	20.0	5.5	20.0
Ethyl acrylate	Ave	0.1800	0.2020		22.4	20.0	12.2	20.0
Methylcyclohexane	Ave	0.5834	0.6577	0.1000	22.5	20.0	12.7	50.0
1,2-Dichloropropane	Ave	0.2717	0.3116	0.1000	22.9	20.0	14.7	20.0
Methyl methacrylate	Ave	0.1691	0.1963		46.4	40.0	16.1	20.0
1,4-Dioxane	Ave	1.490	1.576		423	400	5.8	50.0
n-Propyl acetate	Ave	0.3107	0.3760		24.2	20.0	21.0*	20.0
Dibromomethane	Ave	0.2306	0.2343		20.3	20.0	1.6	20.0
Bromodichloromethane	Ave	0.4457	0.4411	0.2000	19.8	20.0	-1.0	20.0
2-Nitropropane	Ave	0.0569	0.0487		34.2	40.0	-14.5	20.0
2-Chloroethyl vinyl ether	Ave	0.1452	0.1684		23.2	20.0	16.0	20.0
Epichlorohydrin	Ave	0.3286	0.3256		396	400	-0.9	20.0
cis-1,3-Dichloropropene	Ave	0.5487	0.5889	0.2000	21.5	20.0	7.3	50.0
4-Methyl-2-pentanone (MIBK)	Ave	3.056	3.160	0.0500	103	100	3.4	50.0
Toluene	Ave	1.672	1.787	0.4000	21.4	20.0	6.9	20.0
trans-1,3-Dichloropropene	Ave	0.4988	0.5345	0.1000	21.4	20.0	7.2	50.0
Ethyl methacrylate	Ave	0.3971	0.4488		22.6	20.0	13.0	20.0
1,1,2-Trichloroethane	Ave	0.2573	0.2920	0.1000	22.7	20.0	13.5	20.0
Tetrachloroethene	Ave	0.5497	0.5396	0.2000	19.6	20.0	-1.9	20.0
1,3-Dichloropropane	Ave	0.4719	0.5268		22.3	20.0	11.6	20.0
2-Hexanone	Ave	1.955	2.064	0.0500	106	100	5.6	50.0
n-Butyl acetate	Ave	0.3821	0.4840		25.3	20.0	26.7*	20.0
Dibromochloromethane	Ave	0.4059	0.3889	0.1000	19.2	20.0	-4.2	50.0
1,2-Dibromoethane	Ave	0.3606	0.3725	0.1000	20.7	20.0	3.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Lab Sample ID: CCVIS 460-535482/2 Calibration Date: 07/11/2018 19:42

Instrument ID: CVOAMS9 Calib Start Date: 07/06/2018 01:46

GC Column: Rtx-624 ID: 0.25(mm) Calib End Date: 07/06/2018 03:48

Lab File ID: K86442.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Chlorobenzene	Ave	1.178	1.240	0.5000	21.0	20.0	5.2	20.0
Ethylbenzene	Ave	0.6370	0.6736	0.1000	21.2	20.0	5.8	20.0
1,1,1,2-Tetrachloroethane	Ave	0.4892	0.4742		19.4	20.0	-3.1	20.0
m-Xylene & p-Xylene	Ave	0.7829	0.8351	0.1000	21.3	20.0	6.7	20.0
n-Butyl acrylate	Ave	0.2369	0.2730		23.0	20.0	15.2	20.0
o-Xylene	Ave	0.8220	0.8741	0.3000	21.3	20.0	6.3	20.0
Styrene	Ave	1.258	1.357	0.3000	21.6	20.0	7.9	20.0
Bromoform	Ave	0.2744	0.2418	0.1000	17.6	20.0	-11.9	20.0
Isopropylbenzene	Ave	2.133	2.277	0.1000	21.4	20.0	6.8	20.0
Bromobenzene	Ave	0.9751	0.9867		20.2	20.0	1.2	20.0
1,1,2,2-Tetrachloroethane	Ave	0.6941	0.8277	0.3000	23.8	20.0	19.2	20.0
N-Propylbenzene	Ave	3.602	4.200		23.3	20.0	16.6	20.0
1,2,3-Trichloropropane	Ave	0.2177	0.2497		22.9	20.0	14.7	20.0
trans-1,4-Dichloro-2-butene	Ave	0.1613	0.1789		22.2	20.0	10.9	20.0
2-Chlorotoluene	Ave	2.510	2.829		22.5	20.0	12.7	20.0
4-Ethyltoluene	Ave	3.277	3.649		22.3	20.0	11.4	20.0
1,3,5-Trimethylbenzene	Ave	2.870	3.105		21.6	20.0	8.2	20.0
4-Chlorotoluene	Ave	2.096	2.371		22.6	20.0	13.1	20.0
Butyl Methacrylate	Ave	0.8115	0.8943		22.0	20.0	10.2	20.0
tert-Butylbenzene	Ave	2.440	2.561		21.0	20.0	5.0	20.0
1,2,4-Trimethylbenzene	Ave	2.997	3.272		21.8	20.0	9.2	20.0
sec-Butylbenzene	Ave	3.676	4.080		22.2	20.0	11.0	20.0
4-Isopropyltoluene	Ave	3.434	3.684		21.5	20.0	7.3	20.0
1,3-Dichlorobenzene	Ave	1.852	1.922	0.6000	20.8	20.0	3.8	20.0
1,4-Dichlorobenzene	Ave	1.874	1.940	0.5000	20.7	20.0	3.5	20.0
Benzyl chloride	Ave	1.459	1.639		22.5	20.0	12.4	50.0
Indan	Ave	3.204	3.398		21.2	20.0	6.1	20.0
p-Diethylbenzene	Ave	1.987	2.255		22.7	20.0	13.5	20.0
n-Butylbenzene	Ave	1.601	1.863		23.3	20.0	16.4	20.0
1,2-Dichlorobenzene	Ave	1.874	1.917	0.4000	20.5	20.0	2.3	20.0
1,2,4,5-Tetramethylbenzene	Ave	3.438	3.588		20.9	20.0	4.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1430	0.1462	0.0500	20.4	20.0	2.2	50.0
1,3,5-Trichlorobenzene	Ave	1.713	1.762		20.6	20.0	2.9	20.0
1,2,4-Trichlorobenzene	Ave	1.630	1.598	0.2000	19.6	20.0	-2.0	20.0
Hexachlorobutadiene	Ave	0.7975	0.7789		19.5	20.0	-2.3	20.0
Naphthalene	Ave	3.400	3.609		21.2	20.0	6.1	50.0
1,2,3-Trichlorobenzene	Ave	1.573	1.571		20.0	20.0	-0.0	20.0
Dibromofluoromethane (Surr)	Ave	0.3441	0.3497		50.8	50.0	1.6	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.3197	0.3037		47.5	50.0	-5.0	20.0
Toluene-d8 (Surr)	Ave	1.328	1.403		52.8	50.0	5.6	20.0
4-Bromofluorobenzene	Ave	0.5371	0.5285		49.2	50.0	-1.6	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D
Lims ID: CCVIS
Client ID:
Sample Type: CCVIS
Inject. Date: 11-Jul-2018 19:42:30 ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: CCVIS
Misc. Info.: 460-0075283-002
Operator ID: Instrument ID: CVOAMS9
Sublist: chrom-8260S9*sub40

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 20:40:19 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: sarmientod Date: 11-Jul-2018 20:46:38

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.596	0.000	83	53954	20.0	18.1	
2 Dichlorodifluoromethane	85	1.632	1.632	0.000	99	138895	20.0	22.4	
3 Chloromethane	50	1.809	1.809	0.000	99	121560	20.0	23.9	
4 Vinyl chloride	62	1.901	1.901	0.000	97	124022	20.0	23.7	
5 Butadiene	54	1.925	1.925	0.000	99	101502	20.0	24.4	
6 Bromomethane	94	2.205	2.205	0.000	98	102817	20.0	21.5	
7 Chloroethane	64	2.266	2.266	0.000	99	65143	20.0	23.1	
8 Trichlorofluoromethane	101	2.455	2.455	0.000	76	182130	20.0	22.0	
9 Dichlorofluoromethane	67	2.455	2.455	0.000	96	182157	20.0	23.2	
10 Pentane	72	2.492	2.492	0.000	96	25110	40.0	37.3	
12 Ethanol	46	2.687	2.687	0.000	75	18501	800.0	1035.8	
11 Ethyl ether	59	2.687	2.687	0.000	93	56997	20.0	23.6	
13 2-Methyl-1,3-butadiene	53	2.711	2.711	0.000	96	64783	20.0	25.0	
14 1,2-Dichloro-1,1,2-trifluo	117	2.736	2.736	0.000	94	88419	20.0	21.7	
15 Acrolein	56	2.876	2.876	0.000	95	109269	300.0	236.3	
17 1,1-Dichloroethene	96	2.907	2.907	0.000	95	86437	20.0	21.6	
16 1,1,2-Trichloro-1,2,2-trif	101	2.925	2.925	0.000	96	102190	20.0	23.2	
18 Acetone	43	2.998	2.998	0.000	87	111429	100.0	94.3	
19 Iodomethane	142	3.071	3.071	0.000	97	201668	20.0	20.9	
22 Isopropyl alcohol	45	3.083	3.083	0.000	29	67660	200.0	226.5	a
20 Carbon disulfide	76	3.108	3.108	0.000	98	291385	20.0	22.4	
21 3-Chloro-1-propene	76	3.230	3.230	0.000	95	52857	20.0	22.7	
23 Methyl acetate	43	3.242	3.242	0.000	96	98205	40.0	43.6	
24 Cyclopentene	67	3.260	3.260	0.000	93	191832	20.0	24.6	
29 Acetonitrile	41	3.315	3.315	0.000	96	122368	200.0	217.9	a
26 Methylene Chloride	84	3.364	3.364	0.000	87	98080	20.0	21.8	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	435405	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	91	127413	200.0	197.3	
28 Methyl tert-butyl ether	73	3.522	3.522	0.000	95	248535	20.0	21.7	
30 trans-1,2-Dichloroethene	96	3.559	3.559	0.000	91	95110	20.0	21.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
31 Acrylonitrile	53	3.626	3.626	0.000	95	275896	200.0	262.9	
32 Hexane	43	3.705	3.705	0.000	92	62396	20.0	25.5	
33 Isopropyl ether	45	3.919	3.919	0.000	94	236682	20.0	25.9	
35 Vinyl acetate	86	3.961	3.961	0.000	99	28162	40.0	33.4	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	73	147286	20.0	23.1	
36 2-Chloro-1,3-butadiene	88	4.010	4.010	0.000	89	79834	20.0	22.6	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	89	241090	20.0	22.5	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	289180	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	92	43765	20.0	21.6	
41 Ethyl acetate	70	4.492	4.492	0.000	87	16677	40.0	38.6	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	109040	20.0	21.2	
42 2-Butanone (MEK)	72	4.498	4.498	0.000	97	48650	100.0	90.4	
44 Methyl acrylate	55	4.559	4.559	0.000	98	62807	20.0	24.9	
43 Propionitrile	54	4.638	4.638	0.000	97	113089	200.0	209.2	
46 Chlorobromomethane	128	4.723	4.723	0.000	67	57954	20.0	20.1	
45 Tetrahydrofuran	72	4.729	4.729	0.000	62	22200	40.0	35.9	
47 Methacrylonitrile	67	4.742	4.742	0.000	90	316125	200.0	240.6	
48 Chloroform	83	4.778	4.778	0.000	99	161241	20.0	20.8	
49 Cyclohexane	84	4.912	4.912	0.000	86	133428	20.0	23.5	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	154172	20.0	20.8	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	215673	50.0	50.8	
52 Carbon tetrachloride	117	5.052	5.052	0.000	98	130072	20.0	19.7	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	97	115434	20.0	21.9	
56 Isobutyl alcohol	74	5.193	5.193	0.000	95	11710	500.0	472.7	
54 Benzene	78	5.278	5.278	0.000	95	340371	20.0	22.6	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	187328	50.0	47.5	
57 Isopropyl acetate	43	5.315	5.315	0.000	96	235570	20.0	24.0	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	92	79222	20.0	20.6	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	98	105742	20.0	19.1	
60 n-Heptane	57	5.424	5.424	0.000	89	69450	20.0	24.3	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	616774	50.0	50.0	
62 n-Butanol	56	5.857	5.857	0.000	88	66282	500.0	502.8	
64 Ethyl acrylate	56	6.058	6.058	0.000	97	49825	20.0	22.4	a
63 Trichloroethene	95	5.930	5.930	0.000	96	92432	20.0	21.1	
65 Methylcyclohexane	83	6.058	6.058	0.000	92	162268	20.0	22.5	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	90	76876	20.0	22.9	
* 67 1,4-Dioxane-d8	96	6.278	6.278	0.000	0	38244	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	82	96849	40.0	46.4	
69 1,4-Dioxane	88	6.321	6.321	0.000	28	24107	400.0	423.1	M
70 n-Propyl acetate	43	6.333	6.333	0.000	97	92764	20.0	24.2	
71 Dibromomethane	93	6.357	6.357	0.000	92	57798	20.0	20.3	
72 Dichlorobromomethane	83	6.503	6.503	0.000	98	108811	20.0	19.8	
74 2-Nitropropane	41	6.827	6.827	0.000	78	24008	40.0	34.2	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	82	41544	20.0	23.2	
75 Epichlorohydrin	57	6.942	6.942	0.000	99	150657	400.0	396.4	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	91	123495	20.0	21.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	365518	100.0	103.4	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	98	735555	50.0	52.8	
79 Toluene	91	7.333	7.333	0.000	92	374757	20.0	21.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	112097	20.0	21.4	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	94122	20.0	22.6	
82 1,1,2-Trichloroethane	83	7.900	7.900	0.000	96	61236	20.0	22.7	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
83 Tetrachloroethene	166	7.948	7.948	0.000	97	113161	20.0	19.6	
84 1,3-Dichloropropane	76	8.113	8.113	0.000	88	110480	20.0	22.3	
85 2-Hexanone	43	8.156	8.156	0.000	96	238768	100.0	105.6	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	101514	20.0	25.3	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	81565	20.0	19.2	
88 Ethylene Dibromide	107	8.509	8.509	0.000	100	78114	20.0	20.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	524302	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	99	259968	20.0	21.0	
92 Ethylbenzene	106	9.186	9.186	0.000	97	141264	20.0	21.2	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.210	0.000	96	99444	20.0	19.4	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	175141	20.0	21.3	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	57252	20.0	23.0	
95 o-Xylene	106	9.802	9.802	0.000	96	183311	20.0	21.3	
96 Styrene	104	9.832	9.832	0.000	97	284692	20.0	21.6	
97 Amyl acetate (mixed isomer	43	10.021	10.021	0.000	91	117207	20.0	25.5	
98 Bromoform	173	10.070	10.070	0.000	97	50708	20.0	17.6	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	477593	20.0	21.4	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	277104	50.0	49.2	
101 Bromobenzene	156	10.551	10.551	0.000	87	128102	20.0	20.2	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	107457	20.0	23.8	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	545204	20.0	23.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	32420	20.0	22.9	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	87	23223	20.0	22.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	367287	20.0	22.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	473743	20.0	22.3	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	403168	20.0	21.6	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	307768	20.0	22.6	
110 Butyl Methacrylate	87	10.887	10.887	0.000	87	116097	20.0	22.0	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	332490	20.0	21.0	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	424783	20.0	21.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	529667	20.0	22.2	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	478270	20.0	21.5	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	249479	20.0	20.8	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	324565	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	251888	20.0	20.7	
118 Benzyl chloride	91	11.655	11.655	0.000	100	212787	20.0	22.5	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	441201	20.0	21.2	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	292814	20.0	22.7	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	241913	20.0	23.3	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	248886	20.0	20.5	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	465797	20.0	20.9	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	91	18977	20.0	20.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	228808	20.0	20.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	207406	20.0	19.6	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	101118	20.0	19.5	
128 Naphthalene	128	13.319	13.319	0.000	99	468583	20.0	21.2	
129 1,2,3-Trichlorobenzene	180	13.514	13.514	0.000	96	203994	20.0	20.0	
S 130 1,2-Dichloroethene, Total	100				0		40.0	43.2	
S 131 Xylenes, Total	100				0		40.0	42.6	
S 132 Total BTEX	1				0		100.0	107.7	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 12-Jul-2018 20:40:21 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D

Injection Date: 11-Jul-2018 19:42:30 Instrument ID: CVOAMS9 Operator ID:

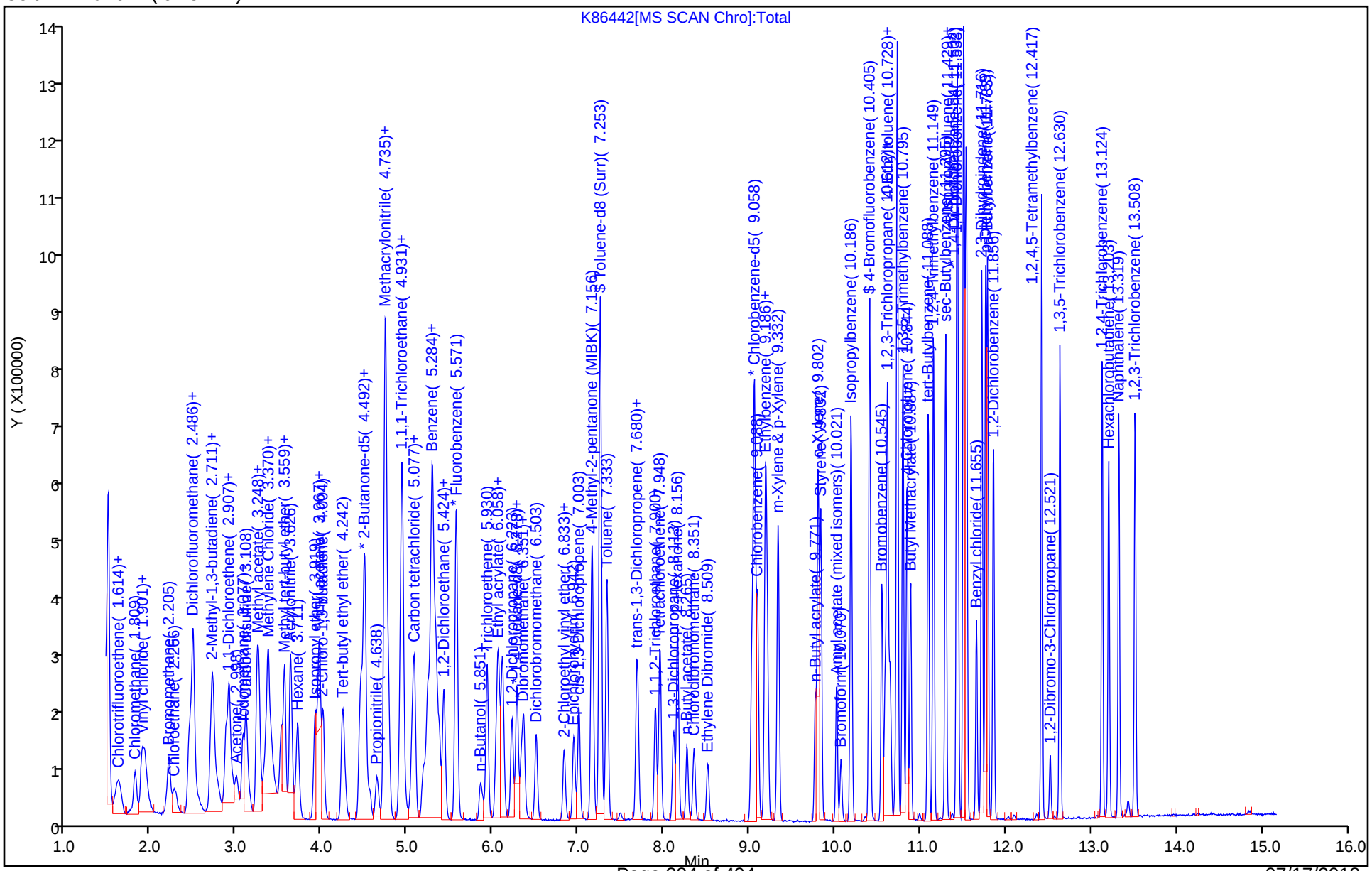
Lims ID: CCVIS Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 1

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



Manual Integration/User Assign Peak Report

TestAmerica Edison

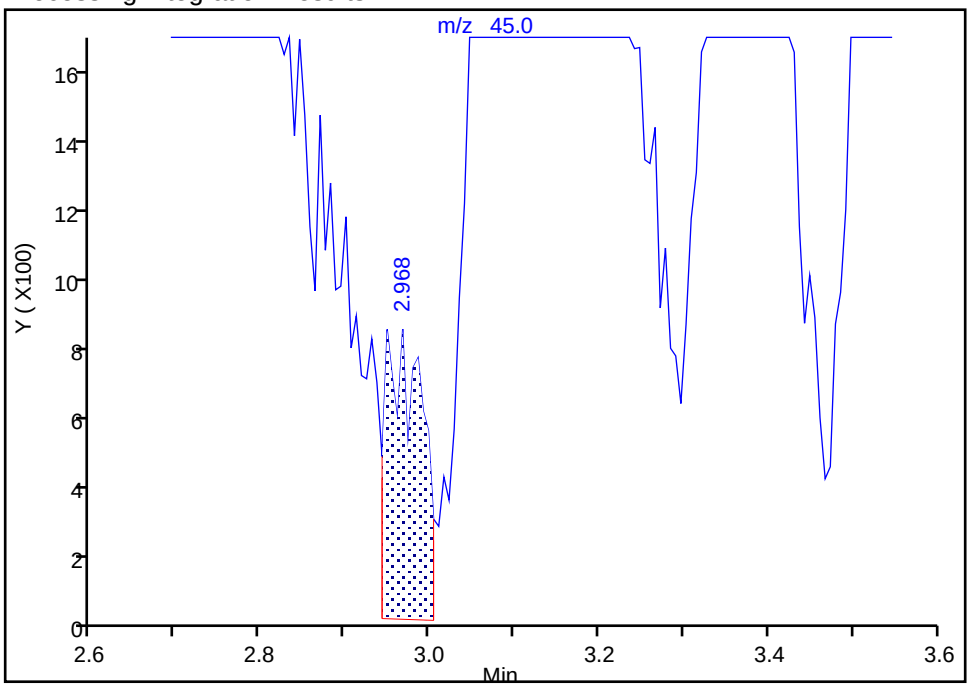
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D
Injection Date: 11-Jul-2018 19:42:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

22 Isopropyl alcohol, CAS: 67-63-0

Signal: 1

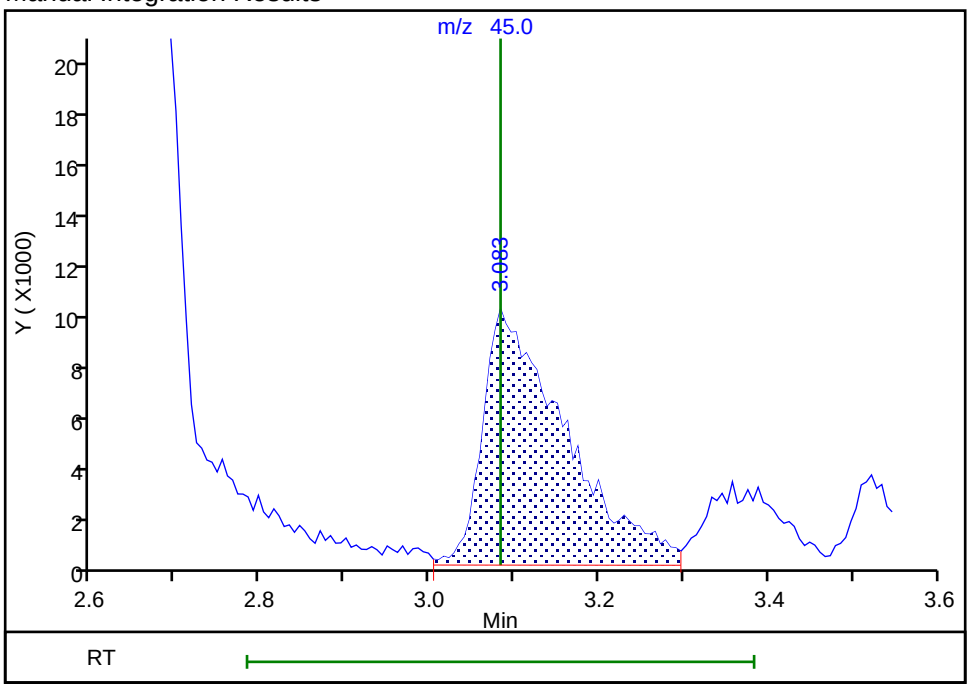
Processing Integration Results

RT: 2.97
Area: 2383
Amount: 7.977359
Amount Units: ug/l



Manual Integration Results

RT: 3.08
Area: 67660
Amount: 226.4994
Amount Units: ug/l



Reviewer: baronm, 12-Jul-2018 20:39:06
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

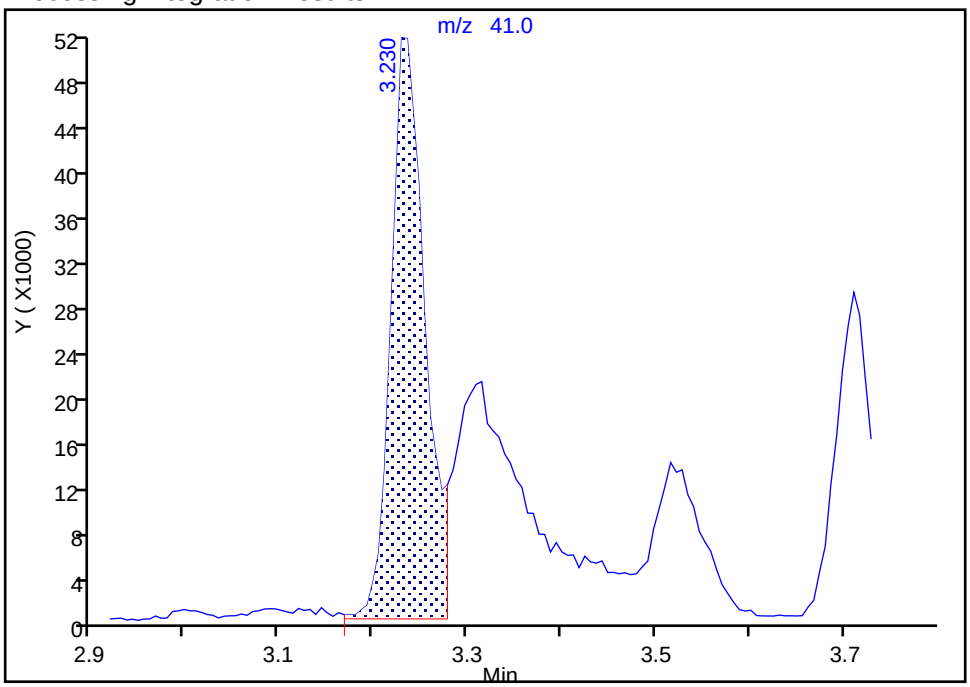
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D
Injection Date: 11-Jul-2018 19:42:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

29 Acetonitrile, CAS: 75-05-8

Signal: 1

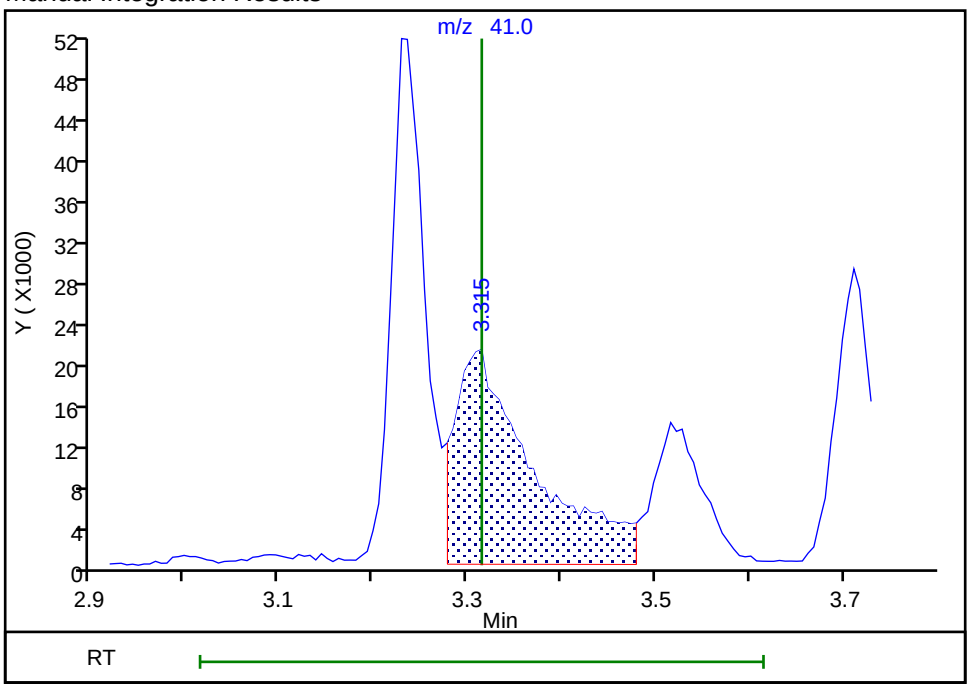
Processing Integration Results

RT: 3.23
Area: 129421
Amount: 230.5097
Amount Units: ug/l



Manual Integration Results

RT: 3.32
Area: 122368
Amount: 217.9477
Amount Units: ug/l



Reviewer: baronm, 12-Jul-2018 20:37:32
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

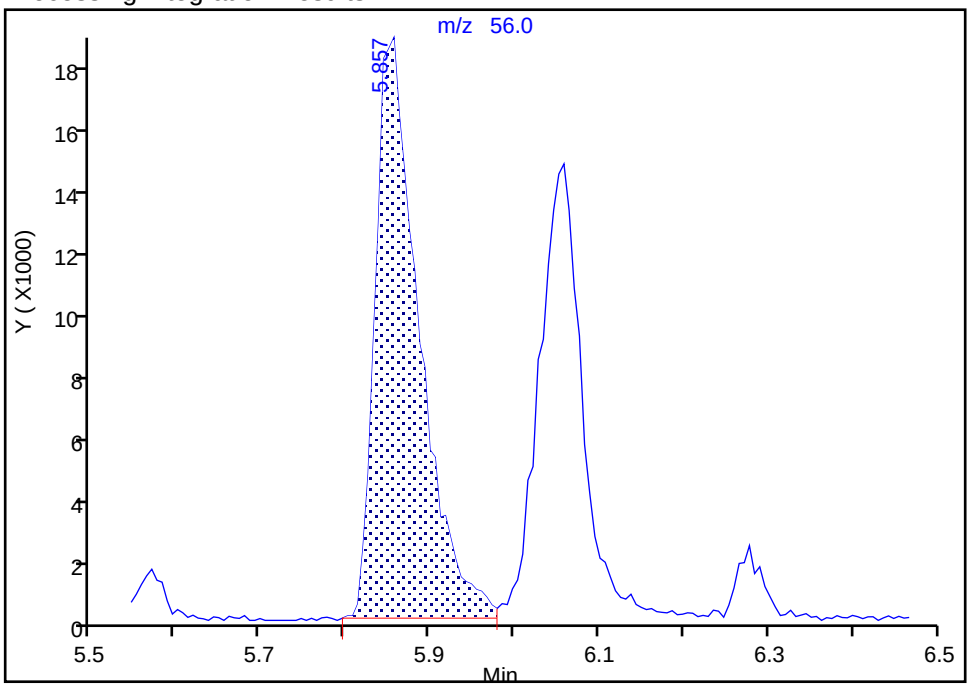
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D
Injection Date: 11-Jul-2018 19:42:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

64 Ethyl acrylate, CAS: 140-88-5

Signal: 1

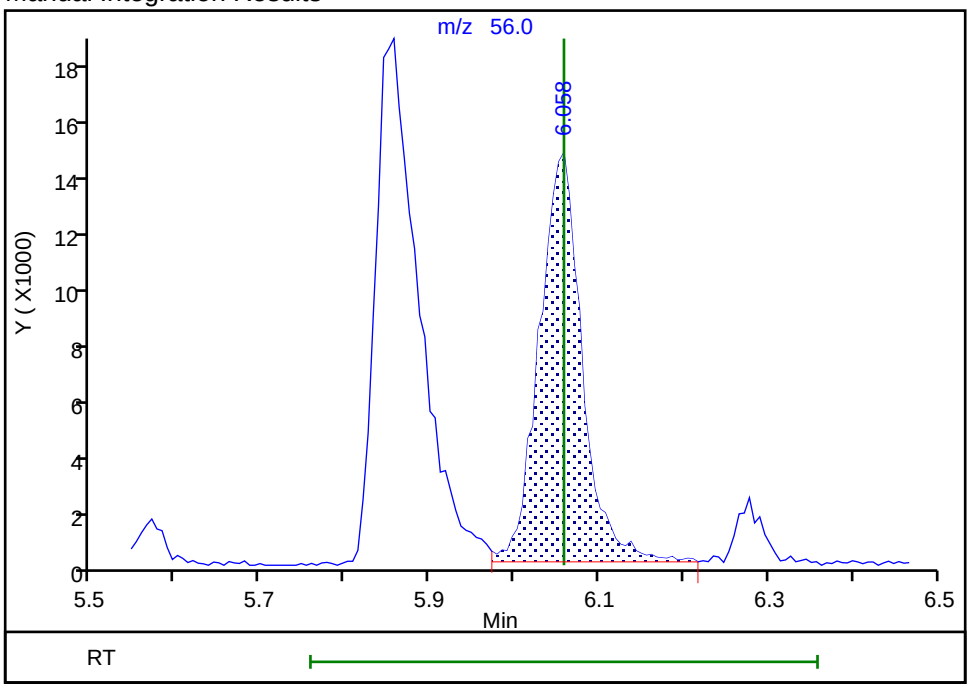
Processing Integration Results

RT: 5.86
Area: 65488
Amount: 29.488171
Amount Units: ug/l



Manual Integration Results

RT: 6.06
Area: 49825
Amount: 22.435379
Amount Units: ug/l



Reviewer: baronm, 12-Jul-2018 20:40:13
Audit Action: Assigned Compound ID Audit Reason: Peak assignment corrected

Manual Integration/User Assign Peak Report

TestAmerica Edison

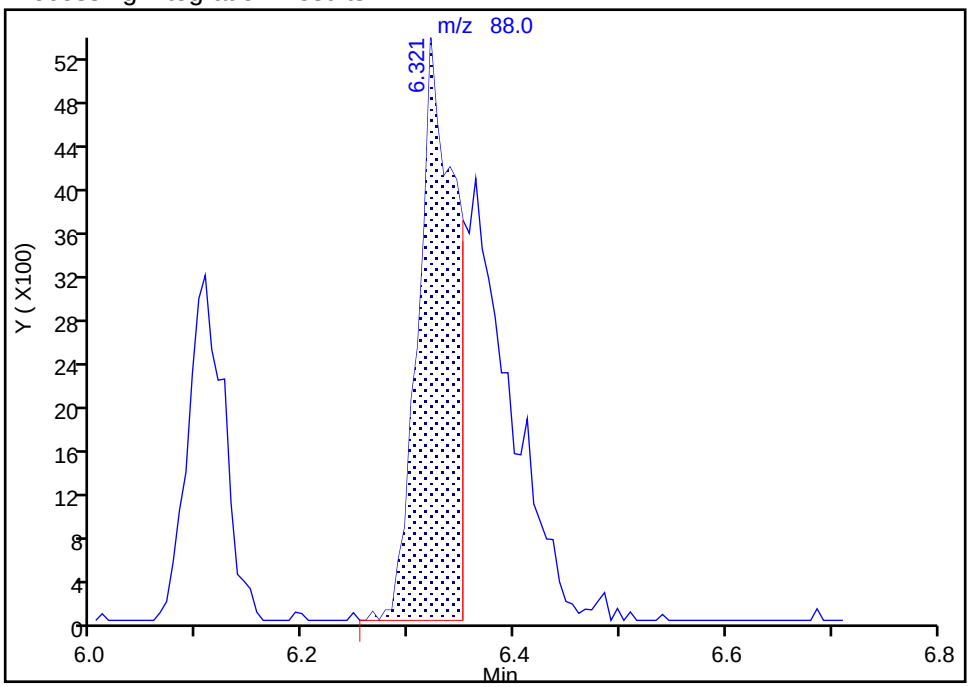
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86442.D
Injection Date: 11-Jul-2018 19:42:30 Instrument ID: CVOAMS9
Lims ID: CCVIS
Client ID:
Operator ID: ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

69 1,4-Dioxane, CAS: 123-91-1

Signal: 1

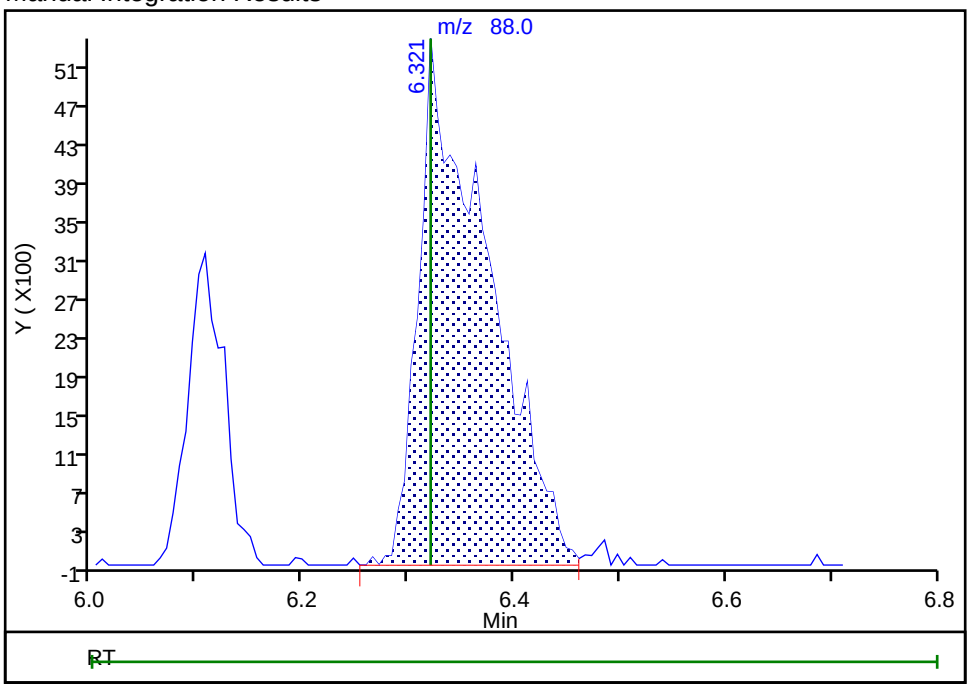
Processing Integration Results

RT: 6.32
Area: 12975
Amount: 227.7344
Amount Units: ug/l



Manual Integration Results

RT: 6.32
Area: 24107
Amount: 423.1208
Amount Units: ug/l



Reviewer: baronm, 12-Jul-2018 20:38:11
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58063.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 02-Jul-2018 04:55:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074723-001
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 02-Jul-2018 13:02:19 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK001

First Level Reviewer: moroneyc Date: 02-Jul-2018 05:45:51

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.710	2.710	0.000	93	61844	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

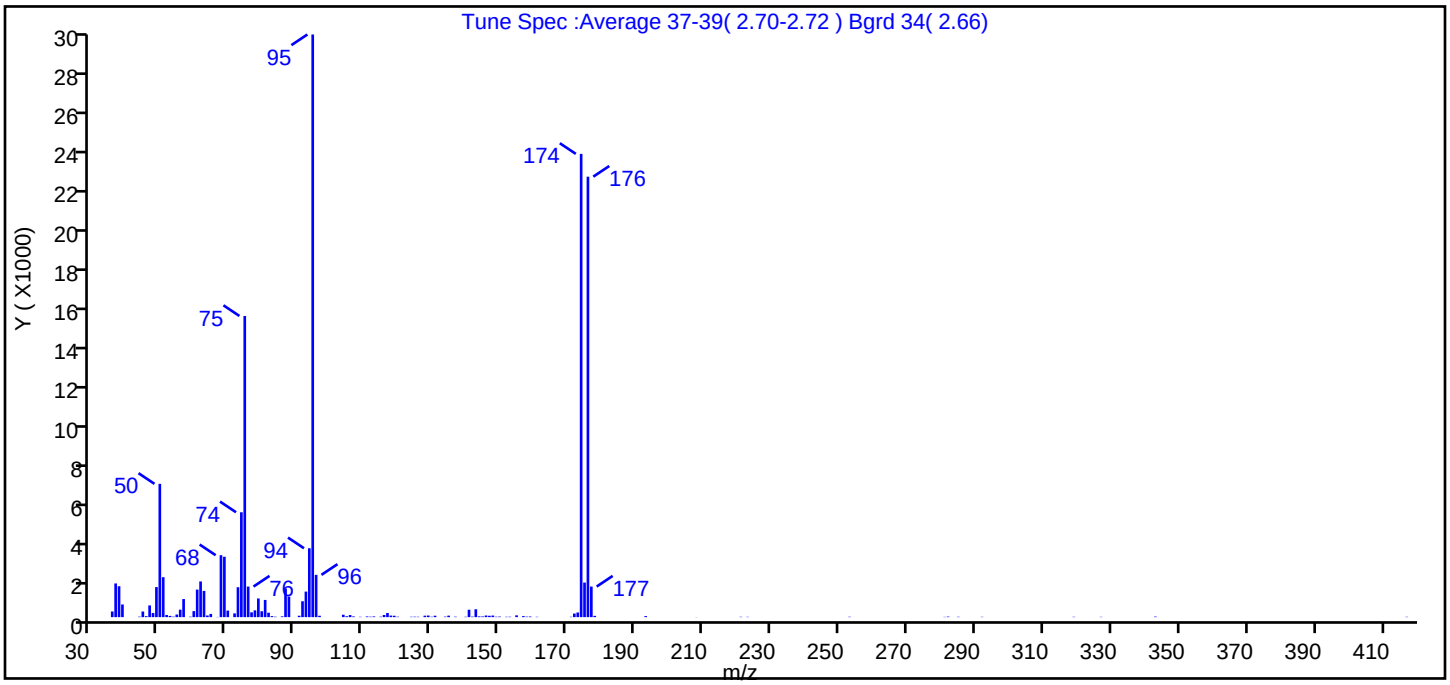
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58063.D
Injection Date: 02-Jul-2018 04:55:30 Instrument ID: CVOAMS1
Lims ID: BFB
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	22.9
75	30 to 60% of m/z 95	51.7
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.8 (1.0)
174	50 to 120% of m/z 95	79.5
175	5 to 9% of m/z 174	5.9 (7.5)
176	Greater than 95% but less than 101% of m/z 174	75.6 (95.1)
177	5 to 9% of m/z 176	5.2 (6.9)

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58063.D\8260624W_1.rslt\spectra.d
Injection Date: 02-Jul-2018 04:55:30
Spectrum: Tune Spec :Average 37-39(2.70-2.72) Bgrd 34(2.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 116

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	290	70.00	336	111.00	36	150.00	29
37.00	1727	72.00	192	112.00	23	152.00	19
38.00	1584	73.00	1534	113.00	37	153.00	22
39.00	649	74.00	5376	115.00	24	155.00	92
42.00	1	75.00	15436	116.00	110	157.00	53
44.00	25	76.00	1567	117.00	211	158.00	25
45.00	289	77.00	247	118.00	81	159.00	32
46.00	50	78.00	349	119.00	72	161.00	18
47.00	601	79.00	958	120.00	22	171.00	19
48.00	212	80.00	303	124.00	19	172.00	185
49.00	1541	81.00	882	125.00	23	173.00	239
50.00	6832	82.00	228	126.00	20	174.00	23744
51.00	2048	83.00	52	128.00	75	175.00	1772
52.00	112	84.00	22	129.00	82	176.00	22576
53.00	64	86.00	40	130.00	20	177.00	1567
54.00	25	87.00	1471	131.00	73	178.00	66
55.00	135	88.00	1052	134.00	27	193.00	53
56.00	382	91.00	73	135.00	77	208.00	6
57.00	928	92.00	815	137.00	24	221.00	19
59.00	24	93.00	1310	140.00	19	223.00	16
60.00	308	94.00	3531	141.00	380	253.00	20
61.00	1412	95.00	29864	142.00	27	281.00	14
62.00	1830	96.00	2168	143.00	404	282.00	28
63.00	1345	97.00	72	144.00	39	285.00	19
64.00	85	104.00	124	145.00	36	292.00	17
65.00	165	105.00	46	146.00	85	319.00	18
67.00	10	106.00	108	147.00	71	327.00	16
68.00	3175	107.00	37	148.00	82	343.00	28
69.00	3095	109.00	18	149.00	22	417.00	18

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58428.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 08-Jul-2018 17:45:30 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075082-001
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 08-Jul-2018 21:29:40 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK017

First Level Reviewer: starzecm Date: 08-Jul-2018 21:29:40

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 137 BFB	95	2.698	2.698	0.000	78	36081	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

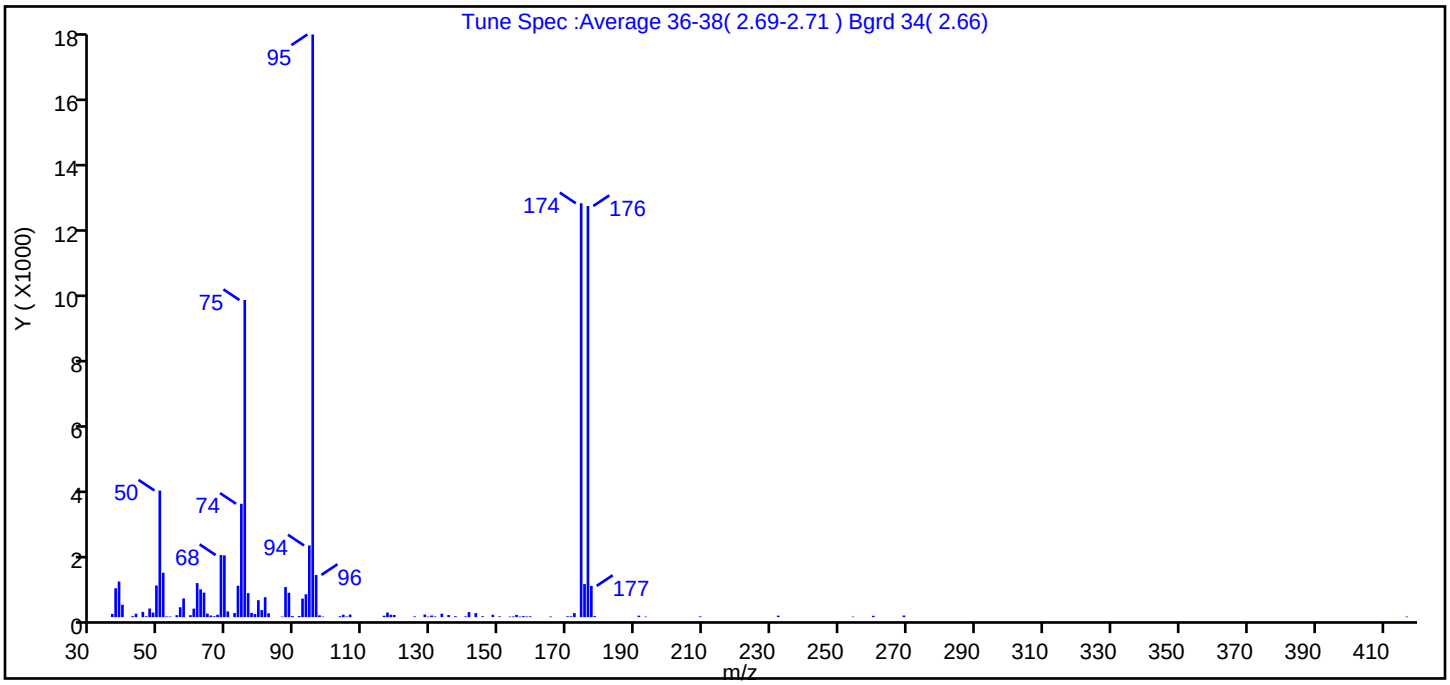
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58428.D
Injection Date: 08-Jul-2018 17:45:30 Instrument ID: CVOAMS1
Lims ID: BFB
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 100 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 137 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	21.7
75	30 to 60% of m/z 95	54.4
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	71.0
175	5 to 9% of m/z 174	5.7 (8.0)
176	Greater than 95% but less than 101% of m/z 174	70.6 (99.3)
177	5 to 9% of m/z 176	5.4 (7.6)

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58428.D\8260624W_1.rslt\spectra.d
Injection Date: 08-Jul-2018 17:45:30
Spectrum: Tune Spec :Average 36-38(2.69-2.71) Bgrd 34(2.66)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 99

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	99	66.00	26	96.00	1266	153.00	17
37.00	864	67.00	72	97.00	54	154.00	20
38.00	1066	68.00	1861	98.00	17	155.00	69
39.00	372	69.00	1850	103.00	27	156.00	18
42.00	29	70.00	172	104.00	72	157.00	31
43.00	103	72.00	122	105.00	19	158.00	18
45.00	157	73.00	940	106.00	77	159.00	25
46.00	24	74.00	3398	116.00	42	165.00	19
47.00	258	75.00	9505	117.00	138	170.00	24
48.00	137	76.00	720	118.00	73	171.00	24
49.00	949	77.00	128	119.00	64	172.00	121
50.00	3795	78.00	93	125.00	22	174.00	12405
51.00	1332	79.00	508	128.00	78	175.00	991
52.00	19	80.00	211	129.00	17	176.00	12322
53.00	19	81.00	597	130.00	48	177.00	936
55.00	59	82.00	116	131.00	20	178.00	31
56.00	297	86.00	17	133.00	105	191.00	44
57.00	561	87.00	902	135.00	63	193.00	17
59.00	58	88.00	731	137.00	28	209.00	22
60.00	255	89.00	32	140.00	23	232.00	45
61.00	1022	91.00	36	141.00	151	254.00	17
62.00	833	92.00	556	143.00	121	260.00	40
63.00	735	93.00	686	145.00	27	269.00	49
64.00	107	94.00	2149	148.00	71	417.00	18
65.00	49	95.00	17464	150.00	23		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Jul-2018 00:52:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0074947-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 06-Jul-2018 05:12:43 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK002

First Level Reviewer: sarmientod Date: 06-Jul-2018 01:03:39

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.283	4.283	0.000	96	73268	NR	NR	a

QC Flag Legend

Processing Flags
NR - Missing Quant Standard
Review Flags
a - User Assigned ID

Reagents:

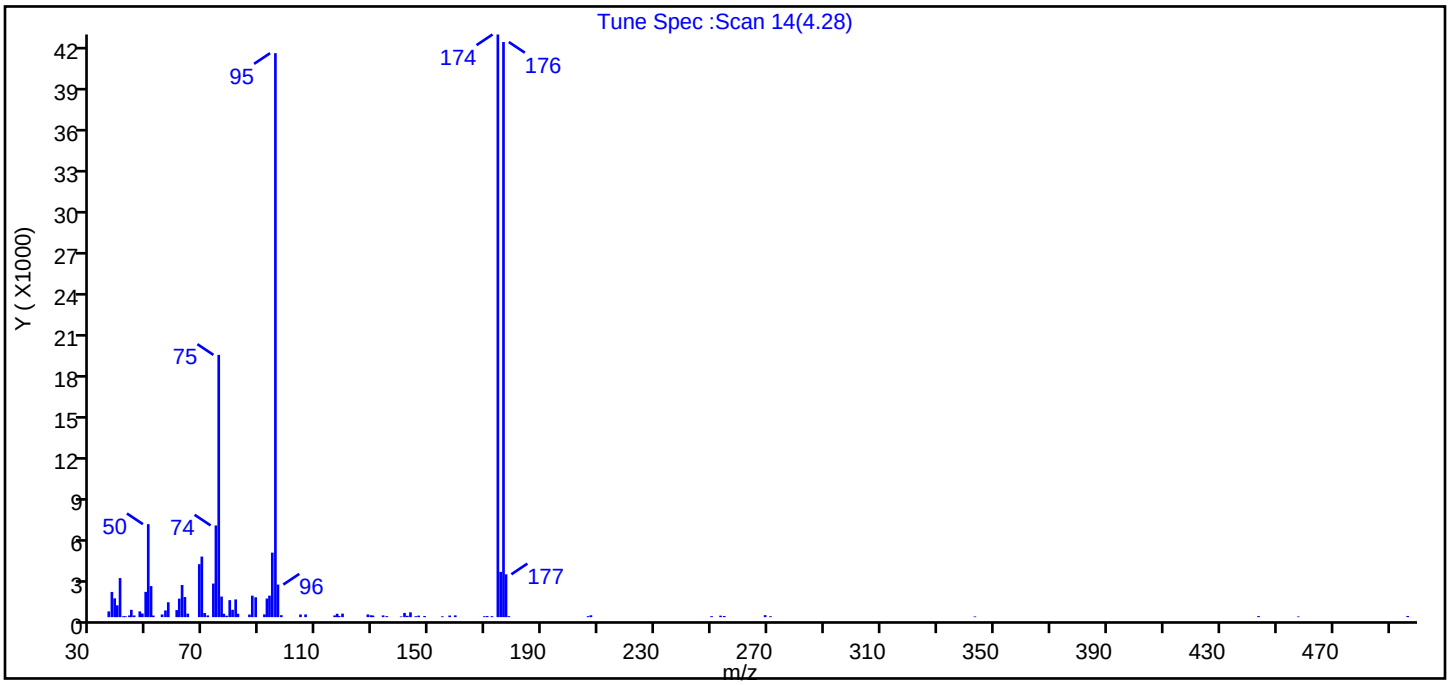
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D
Injection Date: 06-Jul-2018 00:52:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.5
75	30 to 60% of m/z 95	46.5
96	5 to 9% of m/z 95	5.8
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	103.3
175	5 to 9% of m/z 174	8.0 (7.8)
176	Greater than 95% but less than 101% of m/z 174	102.0 (98.7)
177	5 to 9% of m/z 176	7.6 (7.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86116.D\8260S9.rslt\spectra.d
Injection Date: 06-Jul-2018 00:52:30
Spectrum: Tune Spec :Scan 14(4.28)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 88

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	419	63.00	1468	94.00	4715	154.30	62
37.10	1842	64.00	258	95.10	41216	156.90	118
38.10	1373	68.10	3871	96.00	2381	158.90	129
39.00	865	69.00	4426	97.20	143	169.20	65
40.00	2854	70.00	301	104.00	194	170.20	80
41.20	69	71.10	127	105.80	198	171.90	71
41.90	65	73.10	2455	116.10	124	174.00	42584
43.30	123	74.00	6702	117.00	248	175.00	3309
44.00	534	75.00	19168	117.70	82	176.00	42032
45.00	123	76.00	1505	118.90	259	176.90	3132
47.00	421	76.80	250	127.90	200	177.90	72
47.90	263	77.80	105	129.00	137	206.00	72
49.10	1847	78.90	1244	129.70	115	207.00	136
50.00	6796	79.90	539	133.30	130	249.80	72
51.00	2270	81.00	1294	134.60	76	253.00	109
51.80	116	81.80	252	139.70	51	254.30	86
54.90	196	85.90	190	140.90	309	268.80	146
56.10	489	86.90	1572	141.90	98	270.70	66
57.10	1086	88.10	1451	143.00	351	343.20	52
60.10	515	91.20	203	144.90	69	443.80	77
61.00	1353	92.10	1358	145.90	110	457.90	50
62.00	2350	93.00	1572	148.00	84	496.70	87

TestAmerica Edison
Target Compound Quantitation Report

Data File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86411.D				
Lims ID:	BFB				
Client ID:					
Sample Type:	BFB				
Inject. Date:	11-Jul-2018 06:56:30	ALS Bottle#:	99	Worklist Smp#:	1
Injection Vol:	5.0 mL	Dil. Factor:	1.0000		
Sample Info:	BFB				
Misc. Info.:	460-0075237-001				
Operator ID:		Instrument ID:	CVOAMS9		
Method:	\\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m				
Limit Group:	VOA - 8260C Water and Solid				
Last Update:	11-Jul-2018 10:29:35	Calib Date:	06-Jul-2018 03:48:30		
Integrator:	RTE	ID Type:	Deconvolution ID		
Quant Method:	Internal Standard	Quant By:	Initial Calibration		
Last ICal File:	\\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D				
Column 1 :	Rtx-624 (0.25 mm)		Det: MS SCAN		
Process Host:	XAWRK026				
First Level Reviewer: tupayachia		Date:	11-Jul-2018 07:05:26		

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.306	4.306	0.000	96	71717	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

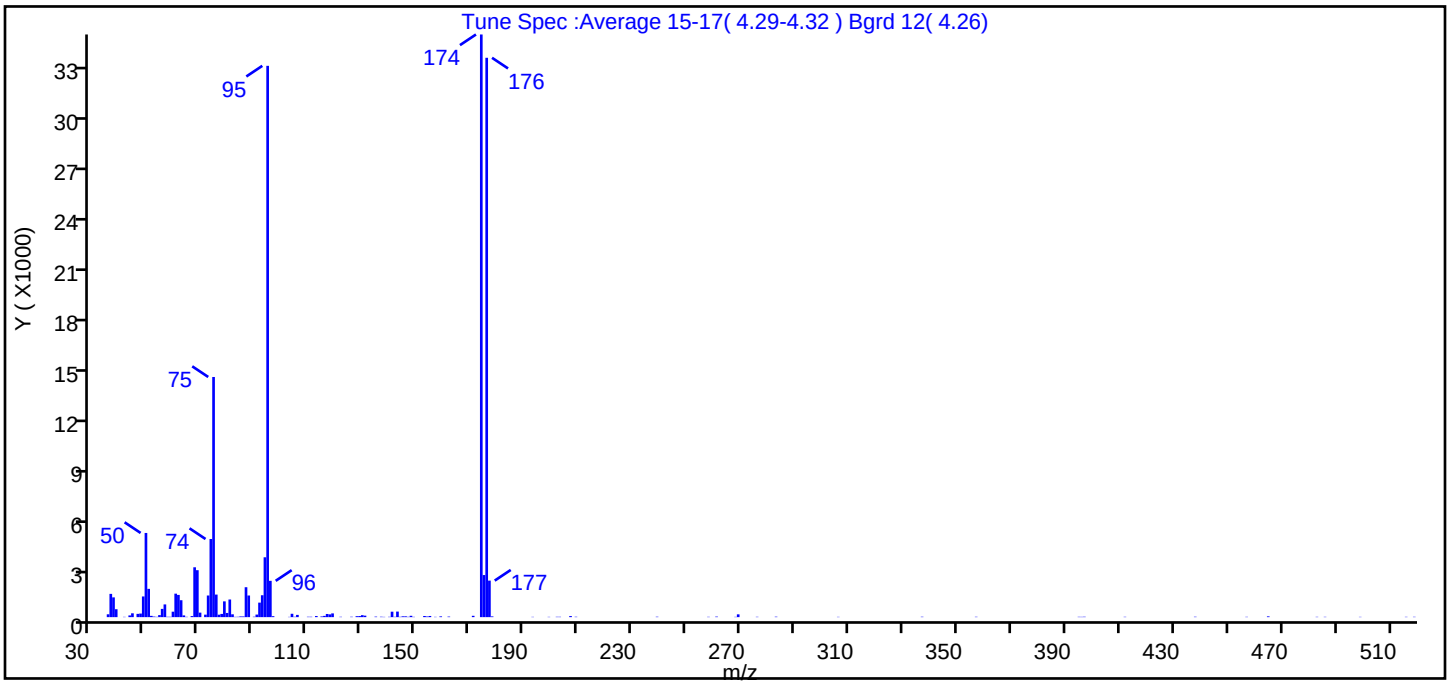
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86411.D
Injection Date: 11-Jul-2018 06:56:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	43.6
96	5 to 9% of m/z 95	6.6
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	105.7
175	5 to 9% of m/z 174	7.6 (7.2)
176	Greater than 95% but less than 101% of m/z 174	101.5 (96.0)
177	5 to 9% of m/z 176	6.6 (6.5)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86411.D\8260S9.rslt\spectra.d
Injection Date: 11-Jul-2018 06:56:30
Spectrum: Tune Spec :Average 15-17(4.29-4.32) Bgrd 12(4.26)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 126

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	167	74.00	4585	117.00	186	177.00	2144
37.00	1365	75.00	14093	118.00	163	178.00	43
38.00	1160	76.00	1324	119.00	220	193.00	17
39.00	465	77.00	144	122.00	21	199.00	17
42.00	17	78.00	189	126.00	24	202.00	21
44.00	100	79.00	926	128.00	56	203.00	21
45.00	226	80.00	246	129.00	64	207.00	63
47.00	193	81.00	1035	130.00	116	209.00	23
48.00	210	82.00	167	131.00	87	239.00	25
49.00	1214	83.00	17	135.00	31	258.00	19
50.00	4940	84.00	21	137.00	24	261.00	32
51.00	1660	85.00	42	138.00	16	268.00	17
52.00	75	86.00	40	140.00	20	269.00	164
53.00	33	87.00	1756	141.00	320	276.00	20
54.00	18	88.00	1270	142.00	21	283.00	27
55.00	119	90.00	25	143.00	326	306.00	17
56.00	484	91.00	151	144.00	20	337.00	24
57.00	747	92.00	852	145.00	48	357.00	22
58.00	22	93.00	1285	146.00	48	395.00	20
59.00	21	94.00	3512	147.00	20	396.00	18
60.00	320	95.00	32352	148.00	79	397.00	24
61.00	1378	96.00	2131	149.00	17	412.00	20
62.00	1304	97.00	56	153.00	67	438.00	24
63.00	993	103.00	16	154.00	39	457.00	19
64.00	101	104.00	198	155.00	68	465.00	45
65.00	19	105.00	23	157.00	17	483.00	19
67.00	62	106.00	132	159.00	45	486.00	19
68.00	2926	110.00	23	162.00	33	499.00	17
69.00	2755	111.00	23	171.00	78	516.00	19
70.00	265	113.00	65	174.00	34192	519.00	20
72.00	146	115.00	41	175.00	2470		
73.00	1270	116.00	74	176.00	32824		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86441.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 11-Jul-2018 19:14:30 ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Misc. Info.: 460-0075283-001
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 07:39:49 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK022

First Level Reviewer: sarmientod Date: 11-Jul-2018 20:10:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
$ 134 BFB	95	4.295	4.295	0.000	97	64790	NR	NR	

QC Flag Legend

Processing Flags
NR - Missing Quant Standard

Reagents:

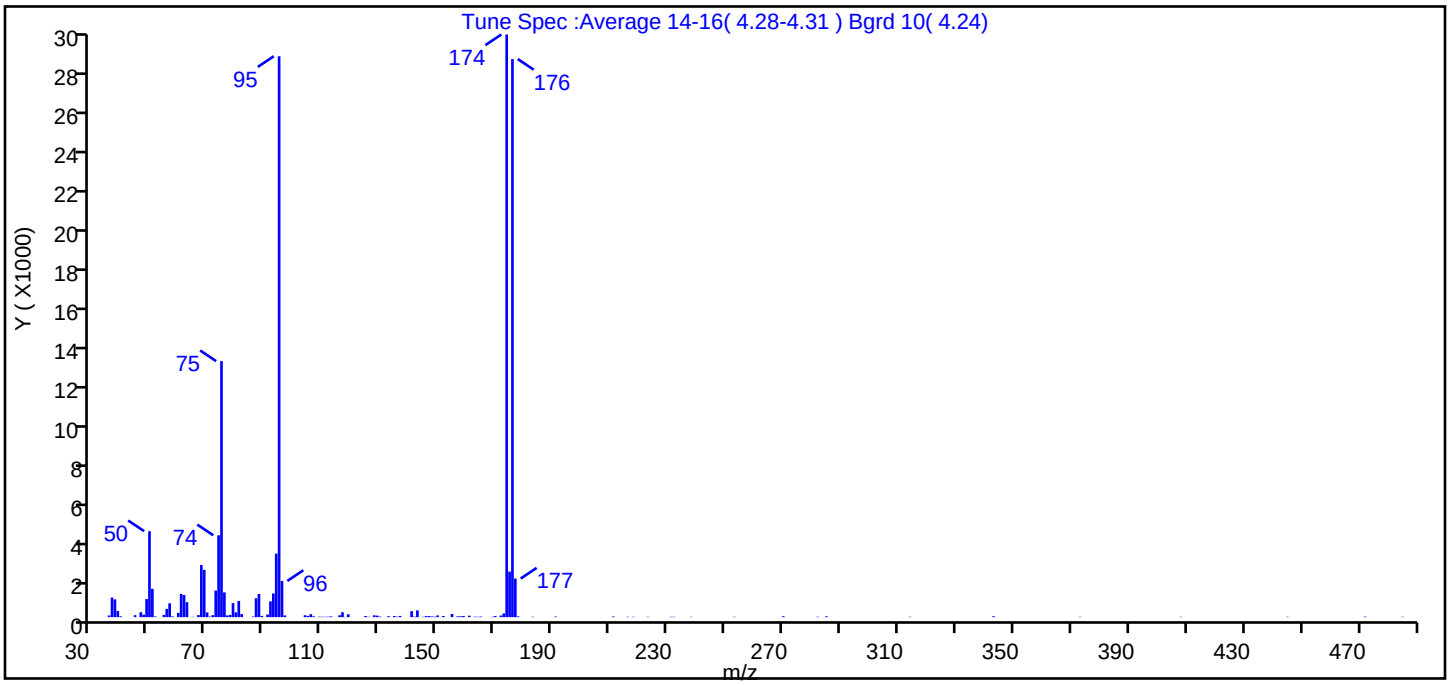
BFB_00017 Amount Added: 1.00 Units: uL

MS Tune Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86441.D
Injection Date: 11-Jul-2018 19:14:30 Instrument ID: CVOAMS9
Lims ID: BFB
Client ID:
Operator ID: ALS Bottle#: 99 Worklist Smp#: 1
Injection Vol: 5.0 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Tune Method: BFB Method 8260

$ 134 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	15.3
75	30 to 60% of m/z 95	45.6
96	5 to 9% of m/z 95	6.5
173	Less than 2% of m/z 174	0.7 (0.6)
174	50 to 120% of m/z 95	103.9
175	5 to 9% of m/z 174	8.1 (7.8)
176	Greater than 95% but less than 101% of m/z 174	99.5 (95.8)
177	5 to 9% of m/z 176	6.9 (6.9)

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86441.D\8260S9.rslt\spectra.d
Injection Date: 11-Jul-2018 19:14:30
Spectrum: Tune Spec :Average 14-16(4.28-4.31) Bgrd 10(4.24)
Base Peak: 174.00
Minimum % Base Peak: 0
Number of Points: 117

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	87	76.00	1262	119.00	146	172.00	83
37.00	1000	77.00	88	125.00	58	173.00	188
38.00	908	78.00	111	126.00	17	174.00	29744
39.00	317	79.00	715	128.00	93	175.00	2324
40.00	41	80.00	243	129.00	78	176.00	28488
45.00	100	81.00	826	130.00	29	177.00	1969
47.00	250	82.00	157	133.00	49	178.00	38
48.00	125	86.00	31	135.00	57	183.00	20
49.00	924	87.00	964	136.00	24	191.00	29
50.00	4389	88.00	1182	137.00	64	211.00	33
51.00	1444	89.00	65	141.00	306	216.00	19
52.00	34	91.00	134	142.00	29	218.00	18
55.00	117	92.00	806	143.00	345	223.00	19
56.00	420	93.00	1210	145.00	18	231.00	18
57.00	708	94.00	3241	146.00	53	232.00	19
58.00	38	95.00	28632	147.00	55	238.00	17
60.00	216	96.00	1849	148.00	36	253.00	19
61.00	1188	97.00	88	149.00	24	270.00	44
62.00	1130	104.00	97	150.00	87	282.00	22
63.00	763	105.00	62	152.00	59	285.00	43
65.00	17	106.00	150	155.00	161	314.00	20
67.00	107	107.00	42	157.00	41	343.00	44
68.00	2666	109.00	23	158.00	44	373.00	18
69.00	2416	110.00	21	159.00	59	408.00	18
70.00	241	111.00	17	161.00	75	445.00	19
71.00	29	112.00	23	163.00	23	472.00	28
72.00	102	113.00	37	164.00	18	485.00	19
73.00	1358	116.00	98	165.00	29		
74.00	4179	117.00	250	169.00	18		
75.00	13069	118.00	11	170.00	55		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534459/8

Matrix: Water | Lab File ID: A58435.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/08/2018 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.43
75-34-3	1,1-Dichloroethane	ND		1.0	0.26
75-35-4	1,1-Dichloroethene	ND		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.38
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.43
107-06-2	1,2-Dichloroethane	ND		1.0	0.43
78-87-5	1,2-Dichloropropane	ND		1.0	0.35
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.34
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.76
78-93-3	2-Butanone (MEK)	ND		5.0	1.9
591-78-6	2-Hexanone	ND		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	2.7
67-64-1	Acetone	ND		5.0	5.0
71-43-2	Benzene	ND		1.0	0.43
75-25-2	Bromoform	ND		1.0	0.54
74-83-9	Bromomethane	ND		1.0	1.0
75-15-0	Carbon disulfide	ND		1.0	0.16
56-23-5	Carbon tetrachloride	ND		1.0	0.21
108-90-7	Chlorobenzene	ND		1.0	0.38
124-48-1	Dibromochloromethane	ND		1.0	0.28
75-00-3	Chloroethane	ND		1.0	0.32
67-66-3	Chloroform	ND		1.0	0.33
74-87-3	Chloromethane	ND		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.22
110-82-7	Cyclohexane	ND		1.0	0.32
75-27-4	Bromodichloromethane	ND		1.0	0.34
75-71-8	Dichlorodifluoromethane	ND		1.0	0.12
100-41-4	Ethylbenzene	ND		1.0	0.30
106-93-4	1,2-Dibromoethane	ND		1.0	0.50
98-82-8	Isopropylbenzene	ND		1.0	0.34
79-20-9	Methyl acetate	ND		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-534459/8

Matrix: Water | Lab File ID: A58435.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/08/2018 20:32

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.47
108-87-2	Methylcyclohexane	ND		1.0	0.26
75-09-2	Methylene Chloride	ND		1.0	0.32
127-18-4	Tetrachloroethene	ND		1.0	0.25
108-88-3	Toluene	ND		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.49
79-01-6	Trichloroethene	ND		1.0	0.31
75-69-4	Trichlorofluoromethane	ND		1.0	0.14
75-01-4	Vinyl chloride	ND		1.0	0.17
1330-20-7	Xylenes, Total	ND		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.46
100-42-5	Styrene	ND		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		74-132
460-00-4	4-Bromofluorobenzene	102		77-124
2037-26-5	Toluene-d8 (Surr)	105		80-120
1868-53-7	Dibromofluoromethane (Surr)	104		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58435.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 08-Jul-2018 20:32:30 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075082-008
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 06:42:55 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: moroneyc Date: 09-Jul-2018 06:40:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 28 TBA-d9 (IS)	65	3.329	3.329	0.000	0	193142	1000.0	1000.0	
* 39 2-Butanone-d5	46	4.292	4.292	0.000	0	286551	250.0	250.0	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.682	-0.006	95	106900	50.0	52.1	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.957	4.957	0.000	0	149756	50.0	56.4	
* 64 Fluorobenzene	96	5.164	5.164	0.000	97	351334	50.0	50.0	
* 71 1,4-Dioxane-d8	96	5.682	5.682	0.000	0	16233	1000.0	1000.0	
$ 81 Toluene-d8 (Surr)	98	6.493	6.493	0.000	98	345746	50.0	52.4	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	90	231515	50.0	50.0	
$ 103 4-Bromofluorobenzene	174	8.407	8.413	-0.006	85	105490	50.0	50.8	
* 119 1,4-Dichlorobenzene-d4	152	9.053	9.072	-0.019	97	136600	50.0	50.0	

Reagents:

8260ISNEW_00119 Amount Added: 1.00 Units: uL Run Reagent
8260SURR250_00178 Amount Added: 1.00 Units: uL Run Reagent

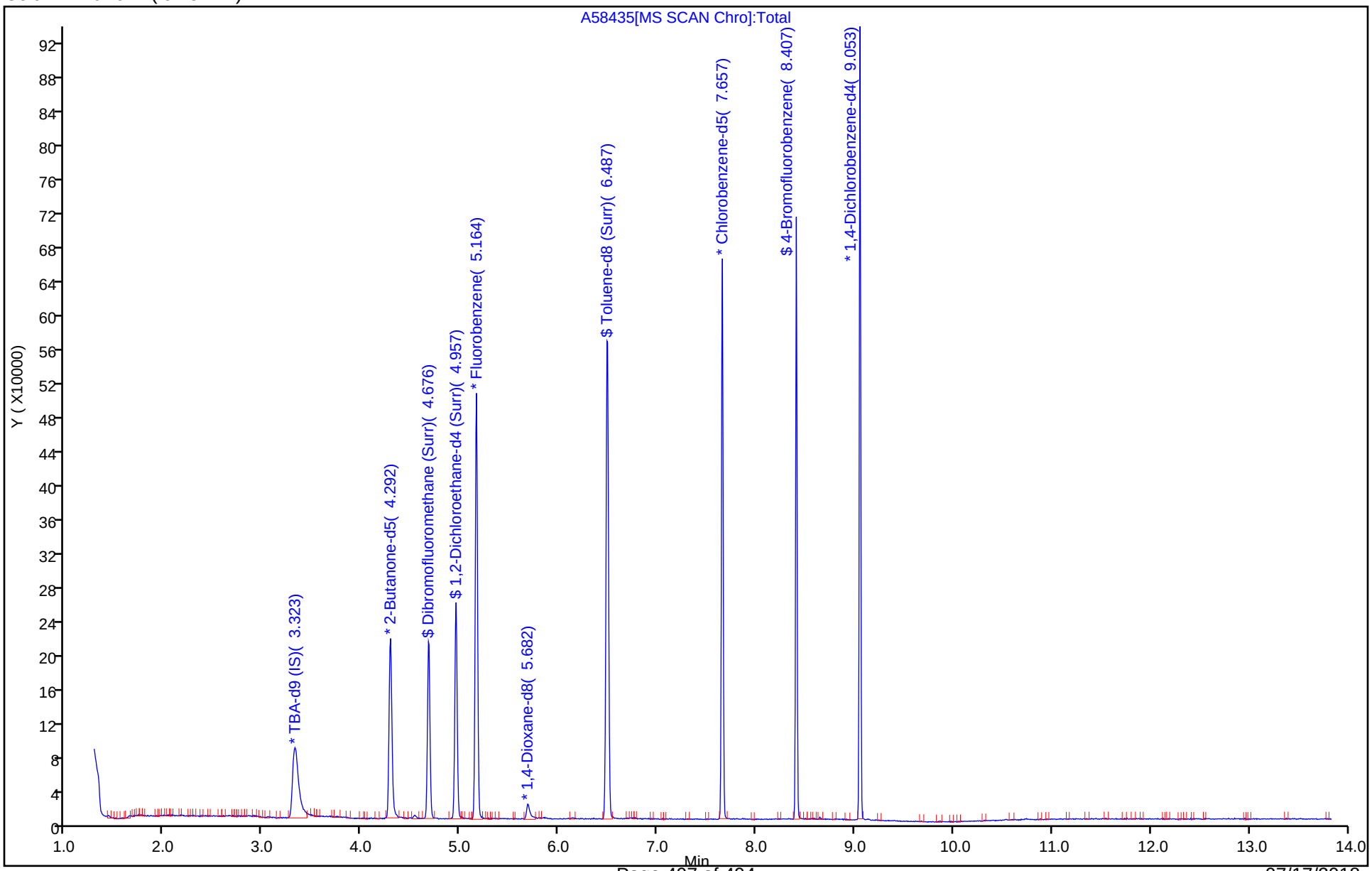
Report Date: 09-Jul-2018 06:45:43 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58435.D

Injection Date:	08-Jul-2018 20:32:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	MB			Worklist Smp#:	8
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	7
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



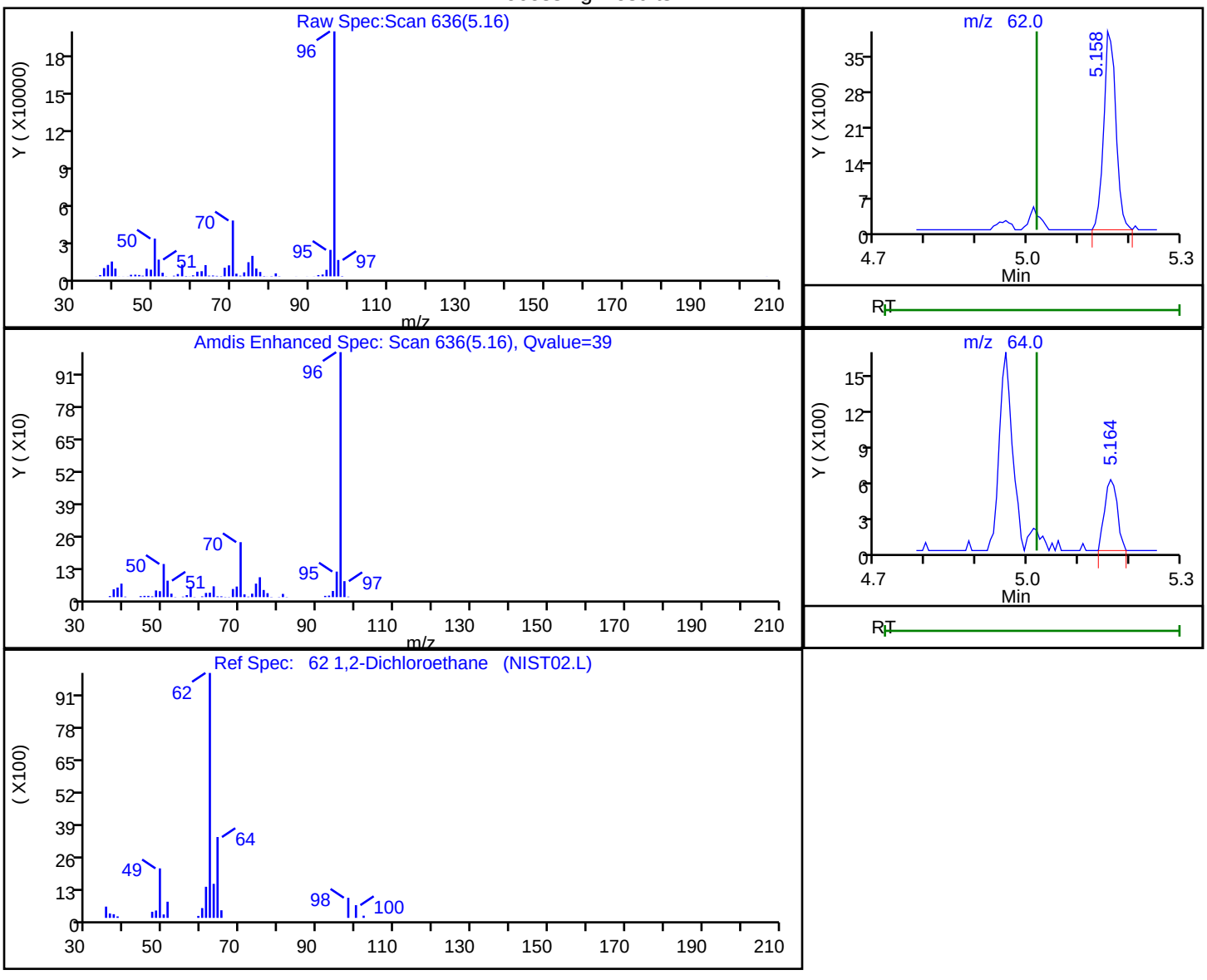
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58435.D
Injection Date: 08-Jul-2018 20:32:30 Instrument ID: CVOAMS1
Lims ID: MB
Client ID:
Operator ID: VOA GC/MS1 ALS Bottle#: 7 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260624W_1 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

62 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
5.16	62.00	6662	1.697725
5.16	64.00	1009	

Reviewer: starzecm, 08-Jul-2018 21:31:34
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535216/7

Matrix: Solid | Lab File ID: K86417.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 09:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	4.50	J	5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535216/7

Matrix: Solid | Lab File ID: K86417.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 09:33

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.951	J	1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	ND		1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	94		78-135
460-00-4	4-Bromofluorobenzene	100		67-126
2037-26-5	Toluene-d8 (Surr)	105		73-121
1868-53-7	Dibromofluoromethane (Surr)	103		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2018 09:33:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075237-007
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 10:35:58 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 10:35:58

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
18 Acetone	43	2.998	3.004	-0.006	80	4706		4.50	
26 Methylene Chloride	84	3.376	3.376	0.000	31	4265		0.9512	Ma
* 25 TBA-d9 (IS)	65	3.364	3.388	-0.024	0	385005	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.449	4.449	0.000	0	256091	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.943	-0.006	97	217147	50.0	51.4	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	183815	50.0	46.8	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	613718	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.266	6.278	-0.012	0	33743	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	703916	50.0	52.7	
* 89 Chlorobenzene-d5	117	9.052	9.058	-0.006	83	503170	50.0	50.0	
94 n-Butyl acrylate	73	9.771	9.771	0.000	94	671		0.2814	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	269322	50.0	49.8	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.000	93	316747	50.0	50.0	

QC Flag Legend

Review Flags
M - Manually Integrated
a - User Assigned ID

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

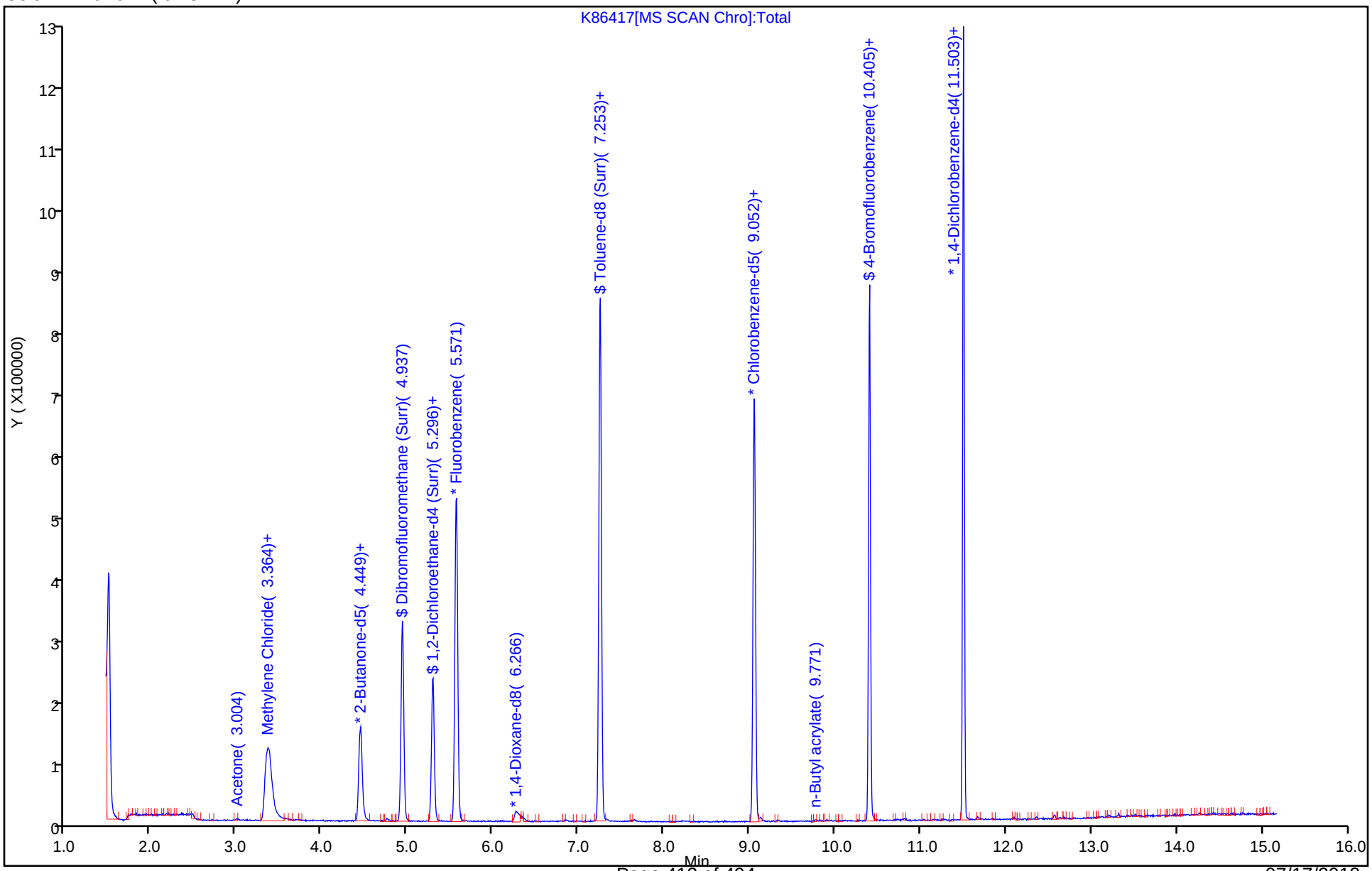
Report Date: 11-Jul-2018 10:35:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D

Injection Date:	11-Jul-2018 09:33:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Report Date: 11-Jul-2018 10:35:59 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D

Injection Date: 11-Jul-2018 09:33:30 Instrument ID: CVOAMS9

Lims ID: MB

Client ID:

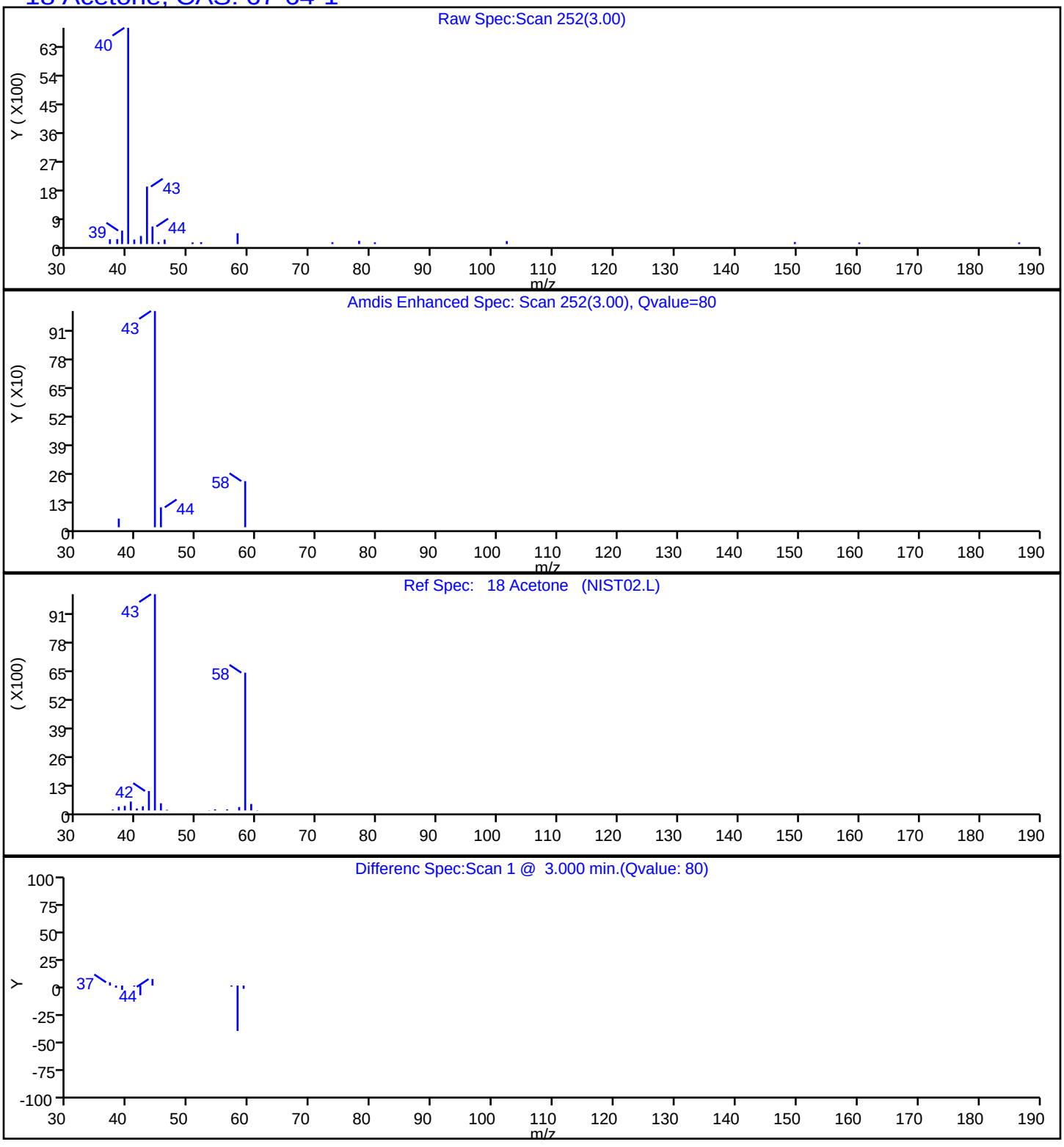
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7

Purge Vol: 5.000 mL Dil. Factor: 1.0000

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm) Detector MS SCAN

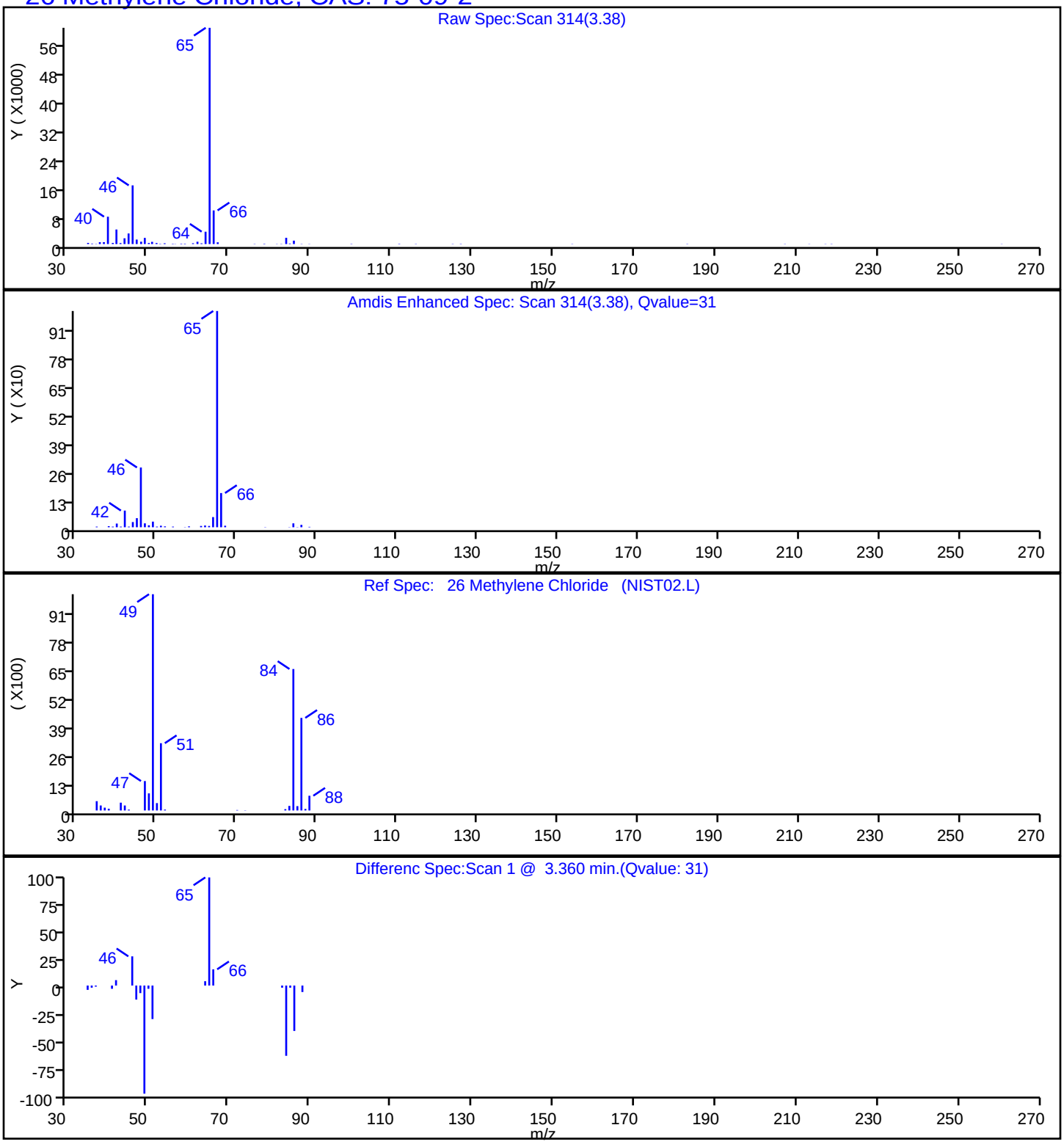
18 Acetone, CAS: 67-64-1



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D
Injection Date: 11-Jul-2018 09:33:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



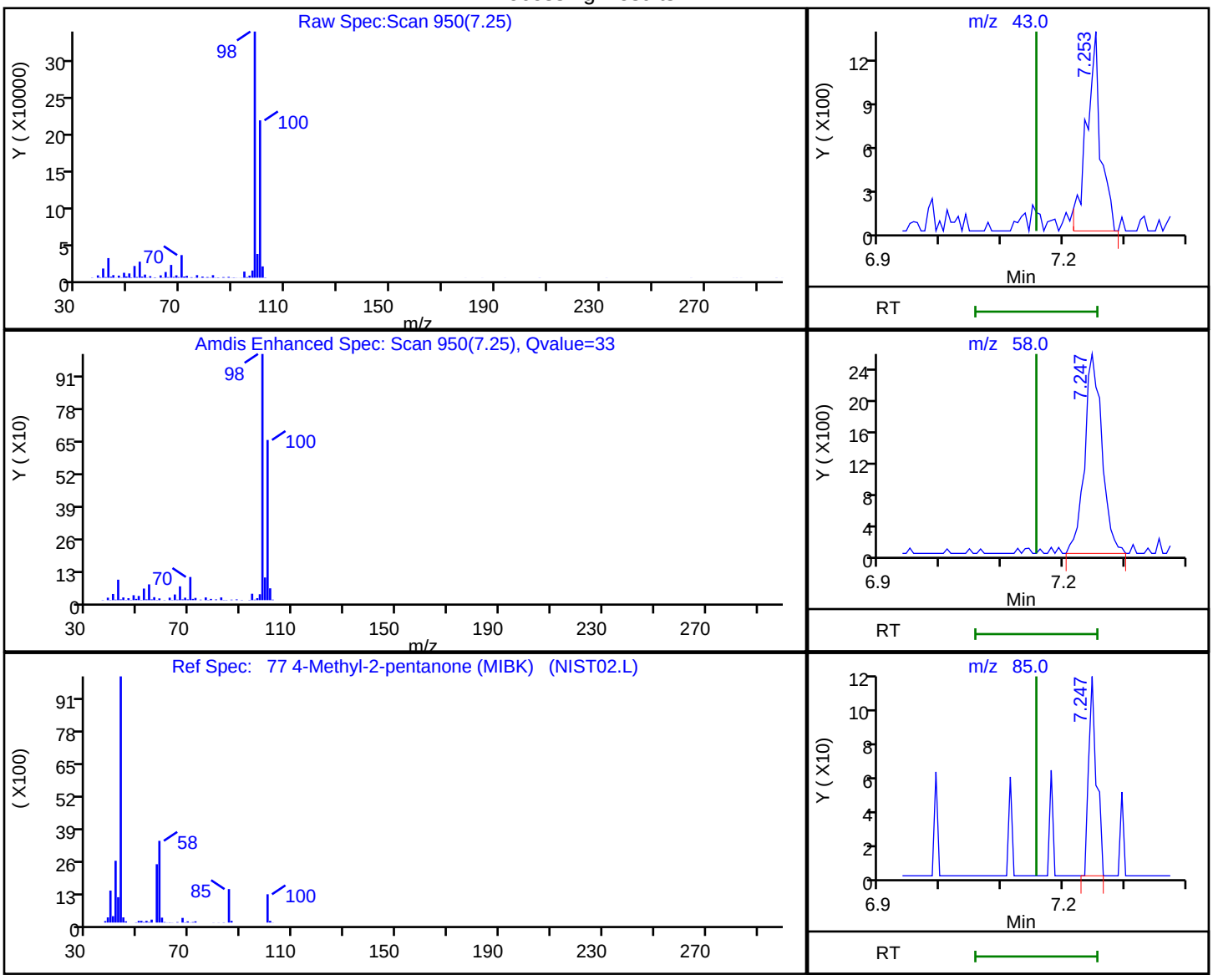
User Disabled Compound Report

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D
Injection Date: 11-Jul-2018 09:33:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

77 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
7.25	43.00	2123	0.678263
7.25	58.00	5057	
7.25	85.00	106	
7.25	100.00	459023	

Reviewer: delpolitov, 11-Jul-2018 10:34:41
Audit Action: Marked Compound Undetected Audit Reason: Invalid Compound ID

Manual Integration/User Assign Peak Report

TestAmerica Edison

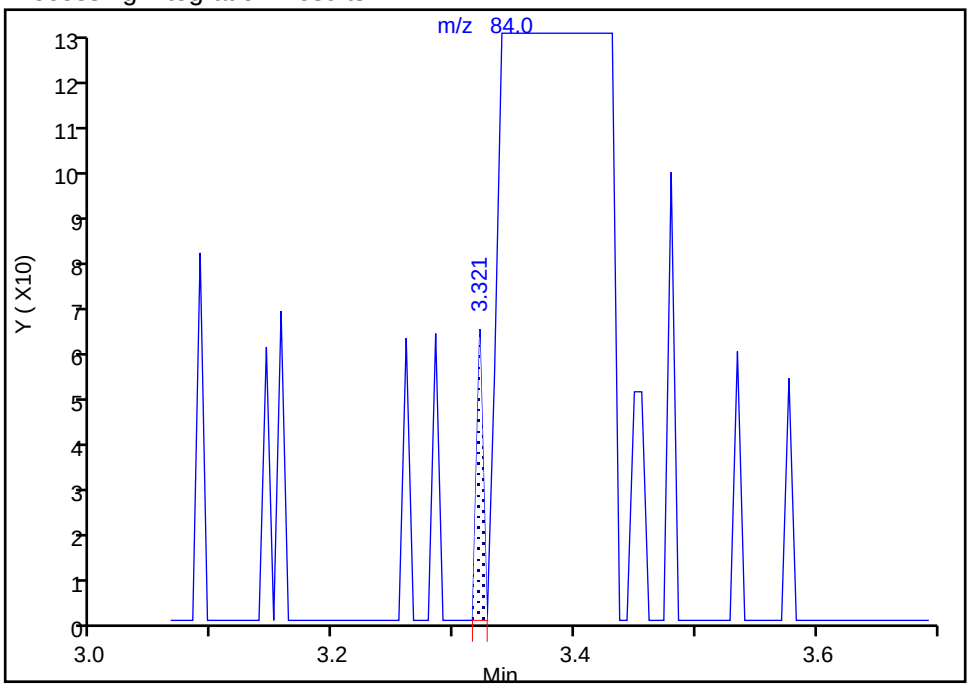
Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86417.D
Injection Date: 11-Jul-2018 09:33:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2

Signal: 1

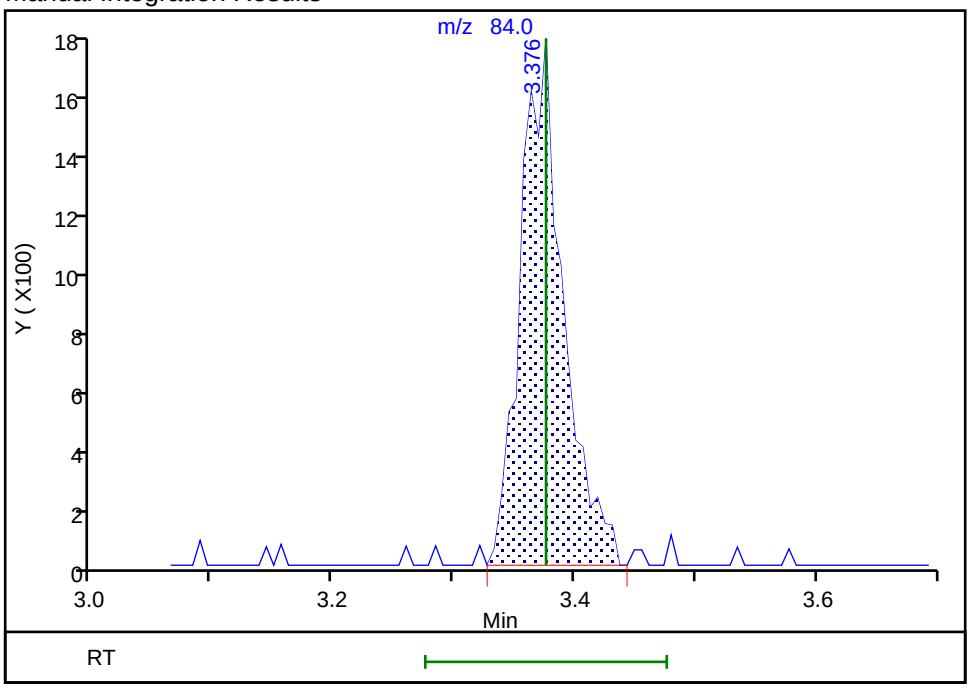
Processing Integration Results

RT: 3.32
Area: 24
Amount: 0.005353
Amount Units: ug/l



Manual Integration Results

RT: 3.38
Area: 4265
Amount: 0.951199
Amount Units: ug/l



Reviewer: delpolitov, 11-Jul-2018 10:35:03
Audit Action: Manually Integrated Audit Reason: Incomplete Integration

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535482/7

Matrix: Solid | Lab File ID: K86447.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 21:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	ND		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.30
79-00-5	1,1,2-Trichloroethane	ND		1.0	0.18
75-34-3	1,1-Dichloroethane	ND		1.0	0.21
75-35-4	1,1-Dichloroethene	ND		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	ND		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	ND		1.0	0.46
95-50-1	1,2-Dichlorobenzene	ND		1.0	0.14
107-06-2	1,2-Dichloroethane	ND		1.0	0.30
78-87-5	1,2-Dichloropropane	ND		1.0	0.42
541-73-1	1,3-Dichlorobenzene	ND		1.0	0.16
106-46-7	1,4-Dichlorobenzene	ND		1.0	0.10
78-93-3	2-Butanone (MEK)	ND		5.0	1.1
591-78-6	2-Hexanone	ND		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		5.0	0.66
67-64-1	Acetone	ND		5.0	3.8
71-43-2	Benzene	ND		1.0	0.26
75-25-2	Bromoform	ND		1.0	0.43
74-83-9	Bromomethane	ND		1.0	0.47
75-15-0	Carbon disulfide	ND		1.0	0.27
56-23-5	Carbon tetrachloride	ND		1.0	0.18
108-90-7	Chlorobenzene	ND		1.0	0.18
124-48-1	Dibromochloromethane	ND		1.0	0.19
75-00-3	Chloroethane	ND		1.0	0.52
67-66-3	Chloroform	ND		1.0	0.32
74-87-3	Chloromethane	ND		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	ND		1.0	0.15
110-82-7	Cyclohexane	ND		1.0	0.22
75-27-4	Bromodichloromethane	ND		1.0	0.26
75-71-8	Dichlorodifluoromethane	ND		1.0	0.34
100-41-4	Ethylbenzene	ND		1.0	0.20
106-93-4	1,2-Dibromoethane	ND		1.0	0.18
98-82-8	Isopropylbenzene	ND		1.0	0.13
79-20-9	Methyl acetate	ND		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: MB 460-535482/7

Matrix: Solid | Lab File ID: K86447.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 21:44

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.13
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	0.209	J	1.0	0.16
127-18-4	Tetrachloroethene	ND		1.0	0.14
108-88-3	Toluene	ND		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.27
79-01-6	Trichloroethene	ND		1.0	0.14
75-69-4	Trichlorofluoromethane	ND		1.0	0.41
75-01-4	Vinyl chloride	ND		1.0	0.55
1330-20-7	Xylenes, Total	ND		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	ND		1.0	0.27
100-42-5	Styrene	ND		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	92		78-135
460-00-4	4-Bromofluorobenzene	94		67-126
2037-26-5	Toluene-d8 (Surr)	99		73-121
1868-53-7	Dibromofluoromethane (Surr)	100		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86447.D
Lims ID: MB
Client ID:
Sample Type: MB
Inject. Date: 11-Jul-2018 21:44:30 ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: MB
Misc. Info.: 460-0075283-007
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 20:41:49 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: baronm Date: 12-Jul-2018 20:42:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
26 Methylene Chloride	84	3.370	3.364	0.006	29	958		0.2088	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	426542	1000.0	1000.0	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	275234	250.0	250.0	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	215863	50.0	50.0	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.302	5.296	0.006	0	184366	50.0	45.9	
* 61 Fluorobenzene	96	5.571	5.571	0.000	99	627854	50.0	50.0	
* 67 1,4-Dioxane-d8	96	6.266	6.278	-0.012	0	36831	1000.0	1000.0	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	708442	50.0	49.7	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	536562	50.0	50.0	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	98	270616	50.0	47.0	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	335136	50.0	50.0	

Reagents:

8260SURR250_00179 Amount Added: 1.00 Units: uL Run Reagent
8260ISNEW_00120 Amount Added: 1.00 Units: uL Run Reagent

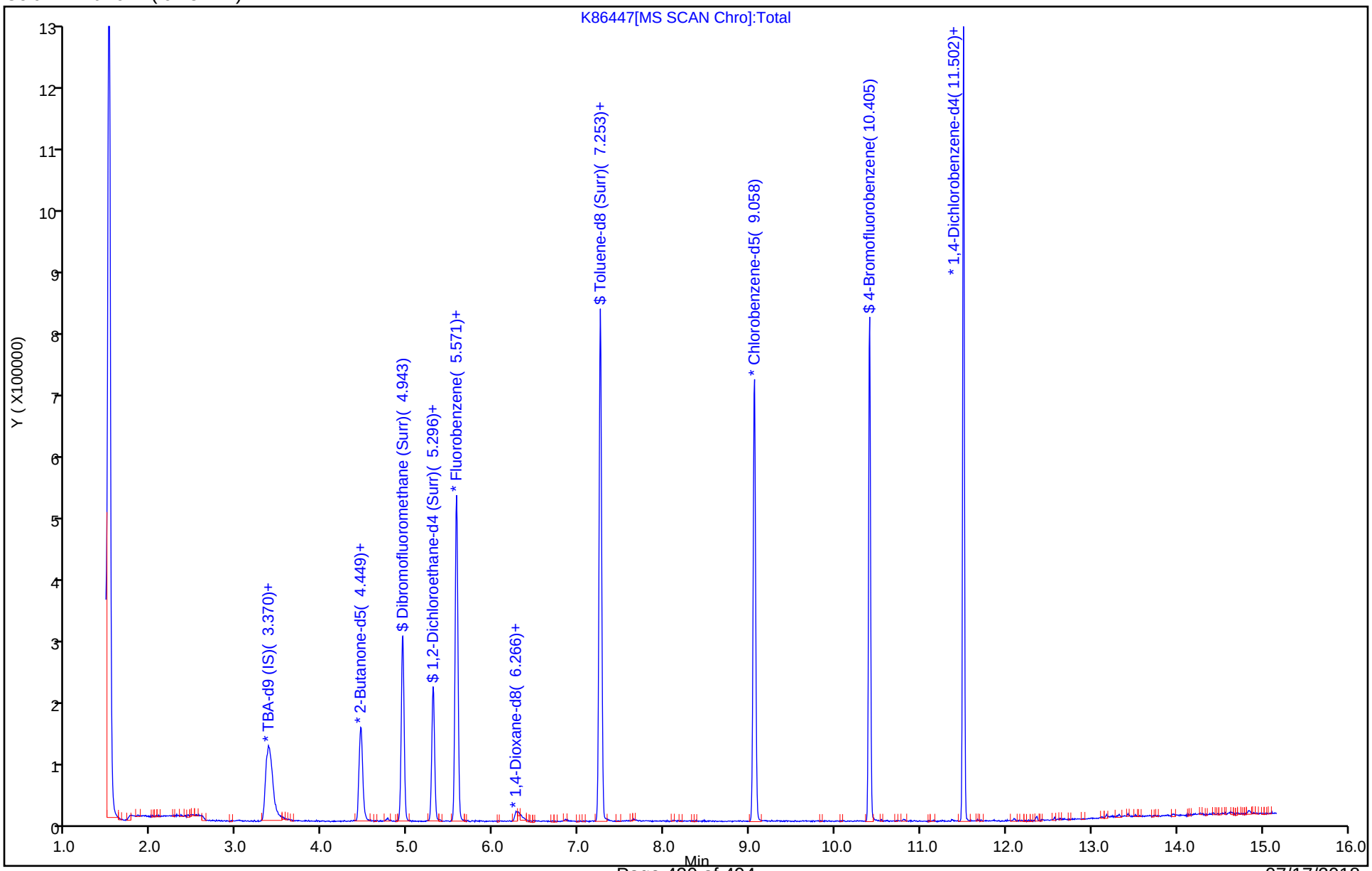
Report Date: 12-Jul-2018 20:42:31 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86447.D

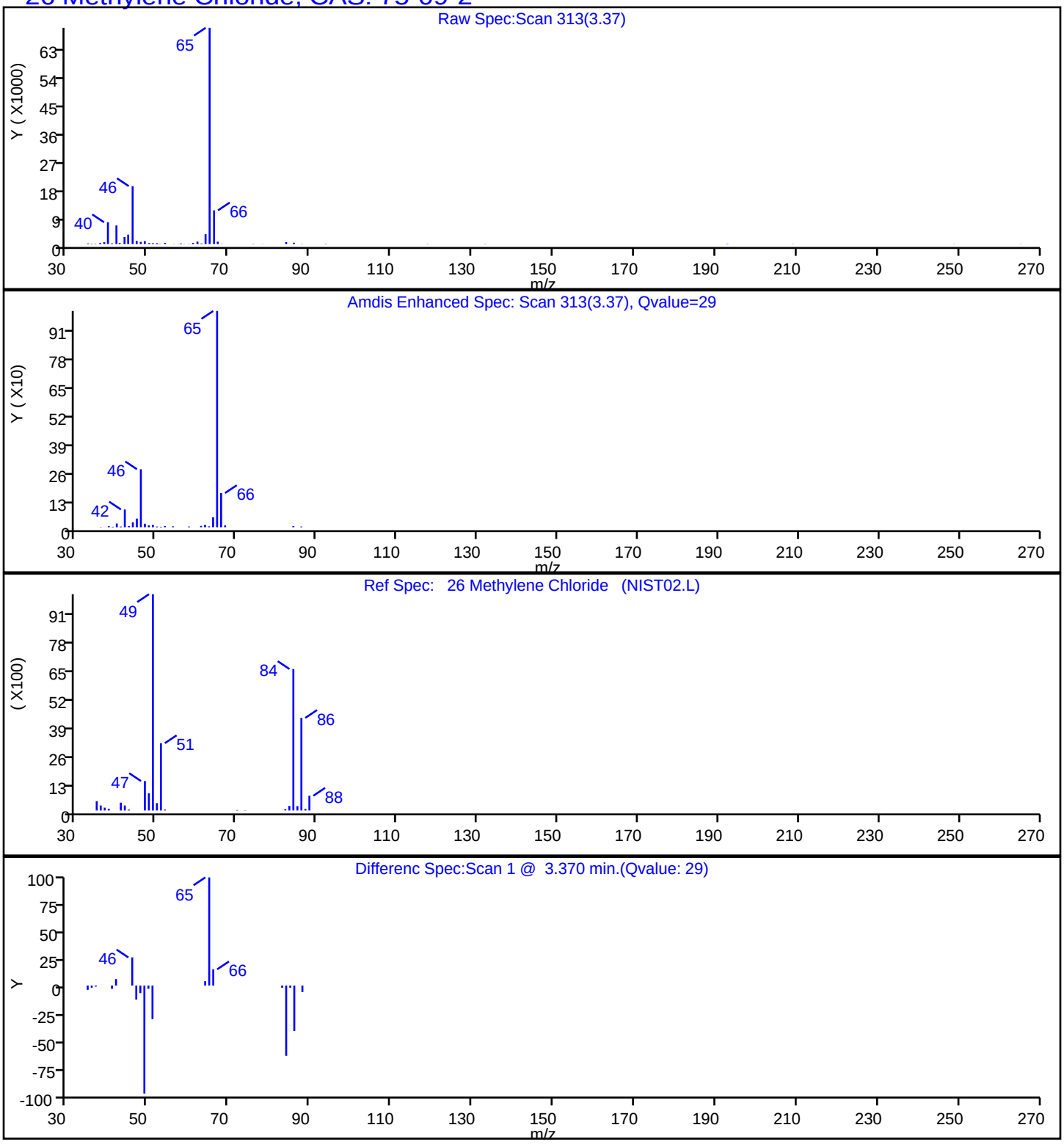
Injection Date:	11-Jul-2018 21:44:30	Instrument ID:	CVOAMS9	Operator ID:	
Lims ID:	MB			Worklist Smp#:	7
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	6
Method:	8260S9	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86447.D
Injection Date: 11-Jul-2018 21:44:30 Instrument ID: CVOAMS9
Lims ID: MB
Client ID:
Operator ID: ALS Bottle#: 6 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: 8260S9 Limit Group: VOA - 8260C Water and Solid
Column: Rtx-624 (0.25 mm) Detector MS SCAN

26 Methylene Chloride, CAS: 75-09-2



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534459/4

Matrix: Water | Lab File ID: A58431.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/08/2018 18:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	18.5		1.0	0.24
79-34-5	1,1,2,2-Tetrachloroethane	19.1		1.0	0.37
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	19.8		1.0	0.31
79-00-5	1,1,2-Trichloroethane	18.5		1.0	0.43
75-34-3	1,1-Dichloroethane	19.8		1.0	0.26
75-35-4	1,1-Dichloroethene	19.3		1.0	0.12
120-82-1	1,2,4-Trichlorobenzene	15.8		1.0	0.37
96-12-8	1,2-Dibromo-3-Chloropropane	18.2		1.0	0.38
95-50-1	1,2-Dichlorobenzene	16.8		1.0	0.43
107-06-2	1,2-Dichloroethane	18.6		1.0	0.43
78-87-5	1,2-Dichloropropane	19.4		1.0	0.35
541-73-1	1,3-Dichlorobenzene	16.9		1.0	0.34
106-46-7	1,4-Dichlorobenzene	16.7		1.0	0.76
78-93-3	2-Butanone (MEK)	78.2		5.0	1.9
591-78-6	2-Hexanone	91.5		5.0	2.9
108-10-1	4-Methyl-2-pentanone (MIBK)	85.8		5.0	2.7
67-64-1	Acetone	86.6		5.0	5.0
71-43-2	Benzene	18.6		1.0	0.43
75-25-2	Bromoform	16.5		1.0	0.54
74-83-9	Bromomethane	20.2		1.0	1.0
75-15-0	Carbon disulfide	18.1		1.0	0.16
56-23-5	Carbon tetrachloride	18.0		1.0	0.21
108-90-7	Chlorobenzene	17.4		1.0	0.38
124-48-1	Dibromochloromethane	16.5		1.0	0.28
75-00-3	Chloroethane	20.6		1.0	0.32
67-66-3	Chloroform	18.4		1.0	0.33
74-87-3	Chloromethane	20.7		1.0	0.14
156-59-2	cis-1,2-Dichloroethene	17.8		1.0	0.22
110-82-7	Cyclohexane	19.7		1.0	0.32
75-27-4	Bromodichloromethane	17.7		1.0	0.34
75-71-8	Dichlorodifluoromethane	19.7		1.0	0.12
100-41-4	Ethylbenzene	17.4		1.0	0.30
106-93-4	1,2-Dibromoethane	17.3		1.0	0.50
98-82-8	Isopropylbenzene	17.3		1.0	0.34
79-20-9	Methyl acetate	42.4		5.0	0.31

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-534459/4

Matrix: Water | Lab File ID: A58431.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/08/2018 18:59

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 534459 | Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	19.6		1.0	0.47
108-87-2	Methylcyclohexane	17.7		1.0	0.26
75-09-2	Methylene Chloride	18.6		1.0	0.32
127-18-4	Tetrachloroethene	16.1		1.0	0.25
108-88-3	Toluene	17.9		1.0	0.38
156-60-5	trans-1,2-Dichloroethene	18.0		1.0	0.24
10061-02-6	trans-1,3-Dichloropropene	19.4		1.0	0.49
79-01-6	Trichloroethene	17.4		1.0	0.31
75-69-4	Trichlorofluoromethane	19.6		1.0	0.14
75-01-4	Vinyl chloride	21.2		1.0	0.17
1330-20-7	Xylenes, Total	35.4		2.0	0.65
10061-01-5	cis-1,3-Dichloropropene	19.0		1.0	0.46
100-42-5	Styrene	18.0		1.0	0.42

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		74-132
460-00-4	4-Bromofluorobenzene	95		77-124
2037-26-5	Toluene-d8 (Surr)	98		80-120
1868-53-7	Dibromofluoromethane (Surr)	96		72-131

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58431.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 08-Jul-2018 18:59:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075082-004
Operator ID: VOA GC/MS1 Instrument ID: CVOAMS1

Method: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\8260624W_1.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 09-Jul-2018 06:46:39 Calib Date: 02-Jul-2018 11:35:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS1\20180702-74723.b\A58077.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK003

First Level Reviewer: starzecm Date: 08-Jul-2018 21:31:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.531	1.531	0.000	89	25951	20.0	17.5	
3 Dichlorodifluoromethane	85	1.567	1.567	0.000	99	81791	20.0	19.7	
4 Chloromethane	50	1.744	1.744	0.000	99	111569	20.0	20.7	
5 Vinyl chloride	62	1.835	1.835	0.000	98	98561	20.0	21.2	
6 Butadiene	39	1.854	1.854	0.000	97	94831	20.0	19.0	
7 Bromomethane	94	2.152	2.152	0.000	98	56125	20.0	20.2	
8 Chloroethane	64	2.226	2.226	0.000	99	58010	20.0	20.6	
11 Pentane	72	2.421	2.421	0.000	97	21293	40.0	35.5	
10 Dichlorofluoromethane	67	2.427	2.427	0.000	78	134991	20.0	20.7	
9 Trichlorofluoromethane	101	2.427	2.427	0.000	49	94720	20.0	19.6	
12 Ethanol	46	2.622	2.622	0.000	84	12822	800.0	928.3	a
13 Ethyl ether	59	2.634	2.634	0.000	89	56828	20.0	21.0	
14 2-Methyl-1,3-butadiene	53	2.658	2.658	0.000	96	64314	20.0	20.9	
15 1,2-Dichloro-1,1,2-trifluo	117	2.719	2.719	0.000	98	42143	20.0	18.7	
16 Acrolein	56	2.823	2.823	0.000	96	21653	40.0	42.9	
18 1,1-Dichloroethene	96	2.860	2.860	0.000	91	51158	20.0	19.3	
17 1,1,2-Trichloro-1,2,2-trif	101	2.860	2.860	0.000	49	50557	20.0	19.8	
19 Acetone	58	2.957	2.957	0.000	85	30751	100.0	86.6	
20 Iodomethane	142	3.018	3.018	0.000	98	80683	20.0	16.6	
21 Carbon disulfide	76	3.049	3.049	0.000	100	180176	20.0	18.1	
22 Isopropyl alcohol	45	3.049	3.049	0.000	38	51195	200.0	249.6	
23 3-Chloro-1-propene	76	3.177	3.177	0.000	90	39285	20.0	20.5	
25 Cyclopentene	67	3.195	3.195	0.000	89	159942	20.0	20.3	
24 Methyl acetate	43	3.201	3.201	0.000	81	119628	40.0	42.4	
26 Acetonitrile	40	3.262	3.262	0.000	98	58821	200.0	200.9	
27 Methylene Chloride	84	3.311	3.311	0.000	97	70533	20.0	18.6	
* 28 TBA-d9 (IS)	65	3.323	3.323	0.000	0	251673	1000.0	1000.0	
29 2-Methyl-2-propanol	59	3.384	3.384	0.000	96	65839	200.0	171.2	
30 Methyl tert-butyl ether	73	3.469	3.469	0.000	98	177695	20.0	19.6	
31 trans-1,2-Dichloroethene	96	3.488	3.488	0.000	97	59957	20.0	18.0	
32 Acrylonitrile	53	3.567	3.567	0.000	94	295133	200.0	202.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
33 Hexane	43	3.634	3.634	0.000	95	65253	20.0	20.9	
34 Isopropyl ether	45	3.841	3.841	0.000	95	246598	20.0	21.4	
35 1,1-Dichloroethane	63	3.859	3.859	0.000	99	125159	20.0	19.8	
36 Vinyl acetate	86	3.878	3.878	0.000	100	23015	40.0	33.3	
37 2-Chloro-1,3-butadiene	88	3.902	3.902	0.000	93	51286	20.0	18.5	
38 Tert-butyl ethyl ether	59	4.115	4.115	0.000	88	193315	20.0	20.3	
* 39 2-Butanone-d5	46	4.286	4.286	0.000	0	351066	250.0	250.0	
40 2,2-Dichloropropane	97	4.311	4.311	0.000	85	19942	20.0	18.8	
41 cis-1,2-Dichloroethene	96	4.317	4.317	0.000	90	65115	20.0	17.8	
43 2-Butanone (MEK)	72	4.335	4.335	0.000	95	32415	100.0	78.2	
42 Ethyl acetate	70	4.335	4.335	0.000	95	11439	40.0	32.5	
44 Methyl acrylate	55	4.378	4.378	0.000	98	54464	20.0	19.0	a
45 Propionitrile	54	4.451	4.451	0.000	98	98978	200.0	178.5	
47 Tetrahydrofuran	72	4.506	4.506	0.000	62	14962	40.0	31.0	
46 Chlorobromomethane	128	4.512	4.512	0.000	95	29515	20.0	16.5	
48 Methacrylonitrile	67	4.530	4.530	0.000	96	250749	200.0	186.7	
49 Chloroform	83	4.548	4.548	0.000	97	105924	20.0	18.4	
50 Cyclohexane	56	4.658	4.658	0.000	98	111527	20.0	19.7	
51 1,1,1-Trichloroethane	97	4.670	4.670	0.000	95	84746	20.0	18.5	
$ 52 Dibromofluoromethane (Surr	113	4.676	4.676	0.000	95	117301	50.0	47.9	
54 Carbon tetrachloride	117	4.762	4.762	0.000	95	67273	20.0	18.0	
55 1,1-Dichloropropene	75	4.786	4.786	0.000	92	79593	20.0	18.3	
56 Isobutyl alcohol	43	4.890	4.890	0.000	93	116691	500.0	483.6	
57 Isooctane	57	4.914	4.914	0.000	98	227323	20.0	20.3	
58 Benzene	78	4.945	4.945	0.000	98	232671	20.0	18.6	
$ 59 1,2-Dichloroethane-d4 (Sur	65	4.951	4.951	0.000	0	162378	50.0	51.2	
60 Isopropyl acetate	43	4.981	4.981	0.000	96	212899	20.0	20.5	
61 Tert-amyl methyl ether	87	4.987	4.987	0.000	91	49039	20.0	18.1	
62 1,2-Dichloroethane	62	5.012	5.012	0.000	95	87216	20.0	18.6	
63 n-Heptane	71	5.054	5.054	0.000	97	46069	20.0	18.1	
* 64 Fluorobenzene	96	5.164	5.164	0.000	98	419700	50.0	50.0	
65 n-Butanol	56	5.377	5.377	0.000	94	36303	500.0	540.7	
66 Trichloroethene	95	5.420	5.420	0.000	96	52839	20.0	17.4	
67 Ethyl acrylate	56	5.518	5.518	0.000	97	39235	20.0	18.6	
68 Methylcyclohexane	83	5.524	5.524	0.000	91	87812	20.0	17.7	
69 1,2-Dichloropropane	63	5.646	5.646	0.000	91	63661	20.0	19.4	
* 71 1,4-Dioxane-d8	96	5.688	5.688	0.000	0	23185	1000.0	1000.0	
70 Methyl methacrylate	100	5.694	5.694	0.000	94	23414	40.0	34.5	
73 1,4-Dioxane	88	5.731	5.731	0.000	36	11397	400.0	351.9	
72 n-Propyl acetate	43	5.731	5.731	0.000	98	91781	20.0	20.3	
74 Dibromomethane	93	5.743	5.743	0.000	94	35399	20.0	17.6	
75 Dichlorobromomethane	83	5.859	5.859	0.000	98	69238	20.0	17.7	
76 2-Chloroethyl vinyl ether	63	6.127	6.127	0.000	82	33988	20.0	19.6	
77 2-Nitropropane	41	6.133	6.133	0.000	79	28957	40.0	36.2	
78 Epichlorohydrin	57	6.225	6.225	0.000	99	117045	400.0	360.1	
79 cis-1,3-Dichloropropene	75	6.274	6.274	0.000	96	80239	20.0	19.0	
80 4-Methyl-2-pentanone (MIBK	43	6.414	6.414	0.000	98	336612	100.0	85.8	
$ 81 Toluene-d8 (Surr)	98	6.487	6.487	0.000	98	396533	50.0	49.2	
82 Toluene	91	6.554	6.554	0.000	92	211487	20.0	17.9	
83 trans-1,3-Dichloropropene	75	6.804	6.804	0.000	97	71073	20.0	19.4	
84 Ethyl methacrylate	69	6.816	6.816	0.000	90	64234	20.0	19.6	
85 1,1,2-Trichloroethane	83	6.956	6.956	0.000	92	39485	20.0	18.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
86 Tetrachloroethene	166	6.993	6.993	0.000	94	45684	20.0	16.1	
87 1,3-Dichloropropane	76	7.103	7.103	0.000	98	79327	20.0	19.4	
88 2-Hexanone	43	7.127	7.127	0.000	97	215918	100.0	91.5	
89 n-Butyl acetate	73	7.194	7.194	0.000	97	13294	20.0	18.9	
90 Chlorodibromomethane	129	7.249	7.249	0.000	96	38767	20.0	16.5	
91 Ethylene Dibromide	107	7.353	7.353	0.000	98	41001	20.0	17.3	
* 92 Chlorobenzene-d5	117	7.657	7.657	0.000	91	282805	50.0	50.0	
93 Chlorobenzene	112	7.676	7.676	0.000	90	129981	20.0	17.4	
94 Ethylbenzene	106	7.724	7.724	0.000	99	70246	20.0	17.4	
95 1,1,1,2-Tetrachloroethane	131	7.737	7.737	0.000	91	45852	20.0	16.8	
96 m-Xylene & p-Xylene	106	7.804	7.804	0.000	97	86638	20.0	17.7	
97 n-Butyl acrylate	73	8.029	8.029	0.000	95	37481	20.0	18.5	
98 o-Xylene	106	8.066	8.066	0.000	92	88479	20.0	17.6	
99 Styrene	104	8.084	8.084	0.000	90	151035	20.0	18.0	
100 Amyl acetate (mixed isomer	43	8.170	8.170	0.000	87	136229	20.0	21.2	
101 Bromoform	173	8.224	8.224	0.000	94	24239	20.0	16.5	
102 Isopropylbenzene	105	8.285	8.285	0.000	97	228394	20.0	17.3	
$ 103 4-Bromofluorobenzene	174	8.413	8.413	0.000	89	120422	50.0	47.5	
104 Bromobenzene	156	8.505	8.505	0.000	96	56810	20.0	16.5	
105 1,1,2,2-Tetrachloroethane	83	8.511	8.511	0.000	98	73750	20.0	19.1	
106 N-Propylbenzene	91	8.529	8.529	0.000	98	299688	20.0	18.4	
107 1,2,3-Trichloropropane	110	8.548	8.548	0.000	94	18964	20.0	18.1	
108 trans-1,4-Dichloro-2-buten	53	8.548	8.548	0.000	76	24137	20.0	37.3	
109 4-Ethyltoluene	105	8.596	8.596	0.000	97	240060	20.0	17.5	
110 2-Chlorotoluene	91	8.602	8.602	0.000	96	212285	20.0	18.2	
111 1,3,5-Trimethylbenzene	105	8.633	8.633	0.000	92	201456	20.0	17.6	
113 4-Chlorotoluene	91	8.669	8.669	0.000	99	189620	20.0	18.9	
112 Butyl Methacrylate	87	8.669	8.669	0.000	96	70917	20.0	16.7	
114 tert-Butylbenzene	119	8.816	8.816	0.000	93	158403	20.0	17.0	
115 1,2,4-Trimethylbenzene	105	8.846	8.846	0.000	99	215099	20.0	18.1	
116 sec-Butylbenzene	105	8.938	8.938	0.000	98	251941	20.0	17.4	
117 4-Isopropyltoluene	119	9.011	9.011	0.000	97	216661	20.0	17.3	
118 1,3-Dichlorobenzene	146	9.029	9.029	0.000	94	119530	20.0	16.9	
* 119 1,4-Dichlorobenzene-d4	152	9.072	9.072	0.000	97	169764	50.0	50.0	
120 1,4-Dichlorobenzene	146	9.084	9.084	0.000	91	123240	20.0	16.7	
136 1,2,3-Trimethylbenzene	105	9.090	9.090	0.000	99	230249	20.0	17.7	
121 Benzyl chloride	91	9.163	9.163	0.000	97	121240	20.0	18.7	
122 2,3-Dihydroindene	117	9.206	9.206	0.000	93	246209	20.0	17.7	
123 p-Diethylbenzene	119	9.224	9.224	0.000	90	144906	20.0	18.1	
124 n-Butylbenzene	92	9.242	9.242	0.000	97	132352	20.0	18.4	
125 1,2-Dichlorobenzene	146	9.303	9.303	0.000	94	117041	20.0	16.8	
126 1,2,4,5-Tetramethylbenzene	119	9.700	9.700	0.000	96	201003	20.0	16.9	
127 1,2-Dibromo-3-Chloropropan	75	9.791	9.791	0.000	90	13104	20.0	18.2	
128 1,3,5-Trichlorobenzene	180	9.883	9.883	0.000	95	84368	20.0	15.9	
129 1,2,4-Trichlorobenzene	180	10.346	10.346	0.000	93	74083	20.0	15.8	
130 Hexachlorobutadiene	225	10.413	10.413	0.000	91	34647	20.0	15.7	
131 Naphthalene	128	10.559	10.559	0.000	98	181621	20.0	16.1	
132 1,2,3-Trichlorobenzene	180	10.754	10.754	0.000	94	64957	20.0	15.5	
S 133 1,2-Dichloroethene, Total	100				0		40.0	35.8	
S 134 Xylenes, Total	100				0		40.0	35.4	
S 135 Total BTEX	1				0		100.0	89.3	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00267	Amount Added:	20.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	20.00	Units: uL	
ACROLEIN W_00078	Amount Added:	4.00	Units: uL	
8260ISNEW_00119	Amount Added:	1.00	Units: uL	Run Reagent
8260SURR250_00178	Amount Added:	1.00	Units: uL	Run Reagent

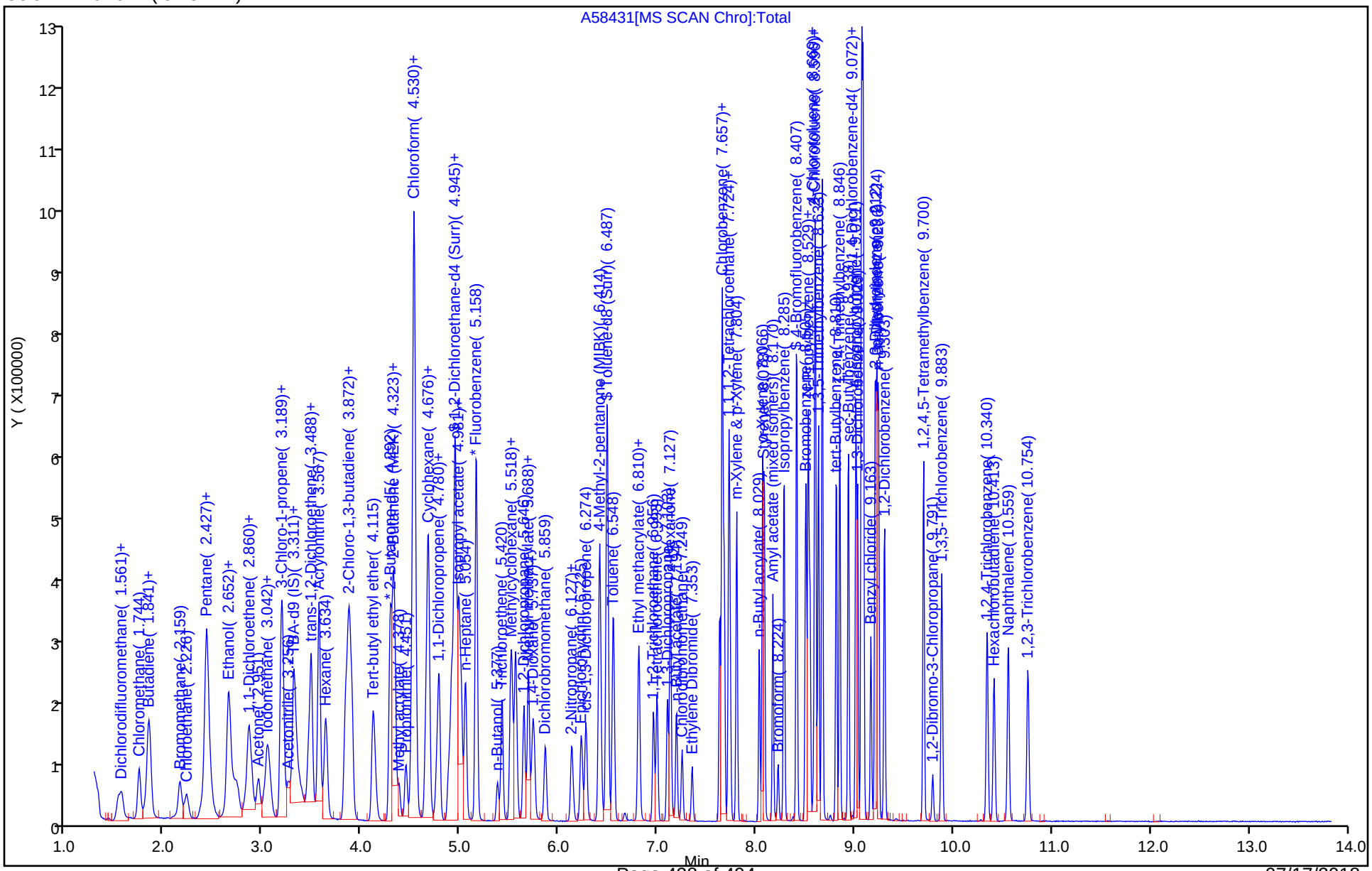
Report Date: 09-Jul-2018 06:46:40 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS1\20180708-75082.b\A58431.D

Injection Date:	08-Jul-2018 18:59:30	Instrument ID:	CVOAMS1	Operator ID:	VOA GC/MS1
Lims ID:	LCS			Worklist Smp#:	4
Client ID:					
Purge Vol:	5.000 mL	Dil. Factor:	1.0000	ALS Bottle#:	3
Method:	8260624W_1	Limit Group:	VOA - 8260C Water and Solid		

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535216/3

Matrix: Solid | Lab File ID: K86413.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 07:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.7		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	21.9		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.2		1.0	0.18
75-34-3	1,1-Dichloroethane	23.0		1.0	0.21
75-35-4	1,1-Dichloroethene	21.8		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.9		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	18.7		1.0	0.46
95-50-1	1,2-Dichlorobenzene	20.0		1.0	0.14
107-06-2	1,2-Dichloroethane	18.8		1.0	0.30
78-87-5	1,2-Dichloropropane	22.6		1.0	0.42
541-73-1	1,3-Dichlorobenzene	20.1		1.0	0.16
106-46-7	1,4-Dichlorobenzene	19.7		1.0	0.10
78-93-3	2-Butanone (MEK)	85.2		5.0	1.1
591-78-6	2-Hexanone	94.9		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	97.9		5.0	0.66
67-64-1	Acetone	90.7		5.0	3.8
71-43-2	Benzene	22.8		1.0	0.26
75-25-2	Bromoform	16.7		1.0	0.43
74-83-9	Bromomethane	17.9		1.0	0.47
75-15-0	Carbon disulfide	22.5		1.0	0.27
56-23-5	Carbon tetrachloride	20.2		1.0	0.18
108-90-7	Chlorobenzene	20.4		1.0	0.18
124-48-1	Dibromochloromethane	18.3		1.0	0.19
75-00-3	Chloroethane	20.0		1.0	0.52
67-66-3	Chloroform	21.2		1.0	0.32
74-87-3	Chloromethane	20.0		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	21.4		1.0	0.15
110-82-7	Cyclohexane	24.3		1.0	0.22
75-27-4	Bromodichloromethane	19.5		1.0	0.26
75-71-8	Dichlorodifluoromethane	18.2		1.0	0.34
100-41-4	Ethylbenzene	20.8		1.0	0.20
106-93-4	1,2-Dibromoethane	20.0		1.0	0.18
98-82-8	Isopropylbenzene	21.6		1.0	0.13
79-20-9	Methyl acetate	46.2		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535216/3

Matrix: Solid | Lab File ID: K86413.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 07:47

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	20.9		1.0	0.13
108-87-2	Methylcyclohexane	23.9		1.0	0.16
75-09-2	Methylene Chloride	21.6		1.0	0.16
127-18-4	Tetrachloroethene	20.1		1.0	0.14
108-88-3	Toluene	21.4		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	21.9		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	20.5		1.0	0.27
79-01-6	Trichloroethene	21.2		1.0	0.14
75-69-4	Trichlorofluoromethane	18.7		1.0	0.41
75-01-4	Vinyl chloride	20.3		1.0	0.55
1330-20-7	Xylenes, Total	41.6		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.3		1.0	0.27
100-42-5	Styrene	21.1		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		78-135
460-00-4	4-Bromofluorobenzene	99		67-126
2037-26-5	Toluene-d8 (Surr)	108		73-121
1868-53-7	Dibromofluoromethane (Surr)	104		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86413.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2018 07:47:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075237-003
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 10:32:18 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 10:32:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.602	1.602	0.000	88	57298	20.0	18.9	a
2 Dichlorodifluoromethane	85	1.645	1.645	0.000	98	115350	20.0	18.2	
3 Chloromethane	50	1.827	1.816	0.011	99	103969	20.0	20.0	
4 Vinyl chloride	62	1.913	1.901	0.012	97	108209	20.0	20.3	
5 Butadiene	54	1.925	1.937	-0.012	96	91984	20.0	21.7	
6 Bromomethane	94	2.218	2.218	0.000	98	87364	20.0	17.9	
7 Chloroethane	64	2.285	2.273	0.012	99	57612	20.0	20.0	
9 Dichlorofluoromethane	67	2.474	2.462	0.012	97	167638	20.0	20.9	
8 Trichlorofluoromethane	101	2.468	2.468	0.000	72	157862	20.0	18.7	
10 Pentane	72	2.498	2.504	-0.006	97	28357	40.0	43.3	
12 Ethanol	46	2.705	2.675	0.030	71	15108	800.0	870.0	
11 Ethyl ether	59	2.699	2.693	0.006	95	56564	20.0	22.9	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	94	67990	20.0	25.7	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.742	0.012	93	98596	20.0	23.7	
15 Acrolein	56	2.882	2.876	0.006	95	98828	300.0	219.8	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	95	89442	20.0	21.8	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.913	0.006	49	106211	20.0	23.6	
18 Acetone	43	3.004	2.998	0.006	86	105226	100.0	90.7	
19 Iodomethane	142	3.083	3.071	0.012	97	202459	20.0	20.5	
22 Isopropyl alcohol	45	3.108	3.102	0.006	28	61958	200.0	213.3	a
20 Carbon disulfide	76	3.120	3.114	0.006	99	299067	20.0	22.5	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	88	55957	20.0	23.5	
23 Methyl acetate	43	3.248	3.248	0.000	88	101159	40.0	46.2	
24 Cyclopentene	67	3.266	3.260	0.006	91	206888	20.0	25.9	
29 Acetonitrile	41	3.309	3.321	-0.012	98	121950	200.0	223.4	a
26 Methylene Chloride	84	3.376	3.370	0.006	87	99518	20.0	21.6	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	423308	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.455	3.419	0.036	94	117153	200.0	186.6	
28 Methyl tert-butyl ether	73	3.528	3.523	0.005	95	244615	20.0	20.9	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	92	96809	20.0	21.9	
31 Acrylonitrile	53	3.638	3.632	0.006	93	260744	200.0	243.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.712	0.005	92	68022	20.0	27.2	
33 Isopropyl ether	45	3.925	3.919	0.006	94	240201	20.0	25.7	
34 1,1-Dichloroethane	63	3.973	3.968	0.005	77	149342	20.0	23.0	
35 Vinyl acetate	86	3.973	3.968	0.005	99	28664	40.0	34.9	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	90	82368	20.0	22.8	
37 Tert-butyl ethyl ether	59	4.248	4.248	0.000	90	243939	20.0	22.3	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	284043	250.0	250.0	
39 2,2-Dichloropropane	79	4.485	4.467	0.018	93	45003	20.0	21.7	Ma
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	95	112508	20.0	21.4	
41 Ethyl acetate	70	4.498	4.498	0.000	94	15984	40.0	37.6	
42 2-Butanone (MEK)	72	4.504	4.516	-0.012	97	45053	100.0	85.2	
44 Methyl acrylate	55	4.565	4.565	0.000	98	59121	20.0	23.0	
43 Propionitrile	54	4.638	4.638	0.000	97	102335	200.0	194.7	
46 Chlorobromomethane	128	4.735	4.730	0.005	69	59302	20.0	20.1	
45 Tetrahydrofuran	72	4.729	4.736	-0.007	60	22459	40.0	37.0	
47 Methacrylonitrile	67	4.748	4.742	0.006	91	304150	200.0	226.5	
48 Chloroform	83	4.778	4.778	0.000	98	167849	20.0	21.2	
49 Cyclohexane	84	4.924	4.919	0.005	91	140987	20.0	24.3	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	157483	20.0	20.7	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	224888	50.0	51.9	
52 Carbon tetrachloride	117	5.059	5.059	0.000	99	135941	20.0	20.2	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	97	120680	20.0	22.4	
56 Isobutyl alcohol	74	5.187	5.205	-0.018	94	10557	500.0	438.3	
54 Benzene	78	5.284	5.284	0.000	95	346412	20.0	22.8	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	199441	50.0	49.5	
57 Isopropyl acetate	43	5.321	5.327	-0.006	97	218677	20.0	21.8	
58 Tert-amyl methyl ether	87	5.333	5.333	0.000	93	77691	20.0	19.7	
59 1,2-Dichloroethane	62	5.376	5.370	0.006	97	106051	20.0	18.8	
60 n-Heptane	57	5.424	5.412	0.012	89	72008	20.0	24.6	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	630272	50.0	50.0	
62 n-Butanol	56	5.857	5.864	-0.007	86	59825	500.0	466.8	
63 Trichloroethene	95	5.930	5.931	-0.001	95	94926	20.0	21.2	
64 Ethyl acrylate	56	6.058	6.046	0.012	90	52265	20.0	23.0	
65 Methylcyclohexane	83	6.058	6.059	-0.001	94	175716	20.0	23.9	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	93	77263	20.0	22.6	
* 67 1,4-Dioxane-d8	96	6.272	6.266	0.006	0	36783	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	82	93688	40.0	44.0	
69 1,4-Dioxane	88	6.333	6.327	0.006	35	21073	400.0	384.6	
70 n-Propyl acetate	43	6.333	6.333	0.000	97	86620	20.0	22.1	
71 Dibromomethane	93	6.357	6.357	0.000	92	57402	20.0	19.7	
72 Dichlorobromomethane	83	6.503	6.498	0.005	99	109632	20.0	19.5	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	83	39594	20.0	21.6	
74 2-Nitropropane	41	6.833	6.833	0.000	78	23304	40.0	32.5	
75 Epichlorohydrin	57	6.948	6.943	0.005	99	137310	400.0	367.8	
76 cis-1,3-Dichloropropene	75	7.003	7.004	-0.001	91	123447	20.0	21.3	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	339806	100.0	97.9	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	756012	50.0	53.9	
79 Toluene	91	7.332	7.327	0.005	93	377154	20.0	21.4	
80 trans-1,3-Dichloropropene	75	7.680	7.674	0.006	98	107923	20.0	20.5	
81 Ethyl methacrylate	69	7.692	7.699	-0.007	84	88738	20.0	21.2	
82 1,1,2-Trichloroethane	83	7.899	7.900	-0.001	95	57593	20.0	21.2	
83 Tetrachloroethene	166	7.954	7.948	0.006	96	116571	20.0	20.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	106799	20.0	21.4	
85 2-Hexanone	43	8.155	8.156	-0.001	95	210756	100.0	94.9	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	97328	20.0	24.1	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	78356	20.0	18.3	
88 Ethylene Dibromide	107	8.509	8.515	-0.006	99	76151	20.0	20.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	528007	50.0	50.0	
90 Chlorobenzene	112	9.094	9.089	0.006	98	254177	20.0	20.4	
92 Ethylbenzene	106	9.186	9.186	0.000	97	140053	20.0	20.8	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	100420	20.0	19.4	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	173201	20.0	20.9	
94 n-Butyl acrylate	73	9.771	9.771	0.000	97	54937	20.0	22.0	
95 o-Xylene	106	9.802	9.802	0.000	95	179040	20.0	20.6	
96 Styrene	104	9.832	9.832	0.000	97	279640	20.0	21.1	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	113247	20.0	23.9	
98 Bromoform	173	10.070	10.070	0.000	98	48438	20.0	16.7	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	486745	20.0	21.6	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	281928	50.0	49.7	
101 Bromobenzene	156	10.545	10.546	-0.001	87	125657	20.0	19.2	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	97	101957	20.0	21.9	
103 N-Propylbenzene	91	10.612	10.613	-0.001	100	538677	20.0	22.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	29648	20.0	20.3	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.661	-0.012	92	21844	20.0	20.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	361537	20.0	21.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	475826	20.0	21.7	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	402870	20.0	21.0	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	299804	20.0	21.4	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	116193	20.0	21.4	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	340327	20.0	20.8	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	423619	20.0	21.1	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	540044	20.0	21.9	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	490341	20.0	21.3	
115 1,3-Dichlorobenzene	146	11.435	11.436	-0.001	99	249210	20.0	20.1	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.503	-0.001	94	334825	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	96	247543	20.0	19.7	
118 Benzyl chloride	91	11.655	11.655	0.000	100	204427	20.0	20.9	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	445164	20.0	20.7	
120 p-Diethylbenzene	119	11.758	11.765	-0.007	95	294123	20.0	22.1	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	242448	20.0	22.6	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	251432	20.0	20.0	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	463941	20.0	20.1	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.515	-0.001	93	17890	20.0	18.7	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	229987	20.0	20.0	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	217353	20.0	19.9	
127 Hexachlorobutadiene	225	13.203	13.204	-0.001	97	107252	20.0	20.1	
128 Naphthalene	128	13.319	13.319	0.000	99	469036	20.0	20.6	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	210079	20.0	19.9	
S 130 1,2-Dichloroethene, Total	100				0		40.0	43.3	
S 131 Xylenes, Total	100				0		40.0	41.6	
S 132 Total BTEX	1				0		100.0	106.6	

QC Flag Legend

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 10:32:20 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86413.D

Injection Date: 11-Jul-2018 07:47:30 Instrument ID: CVOAMS9 Operator ID:

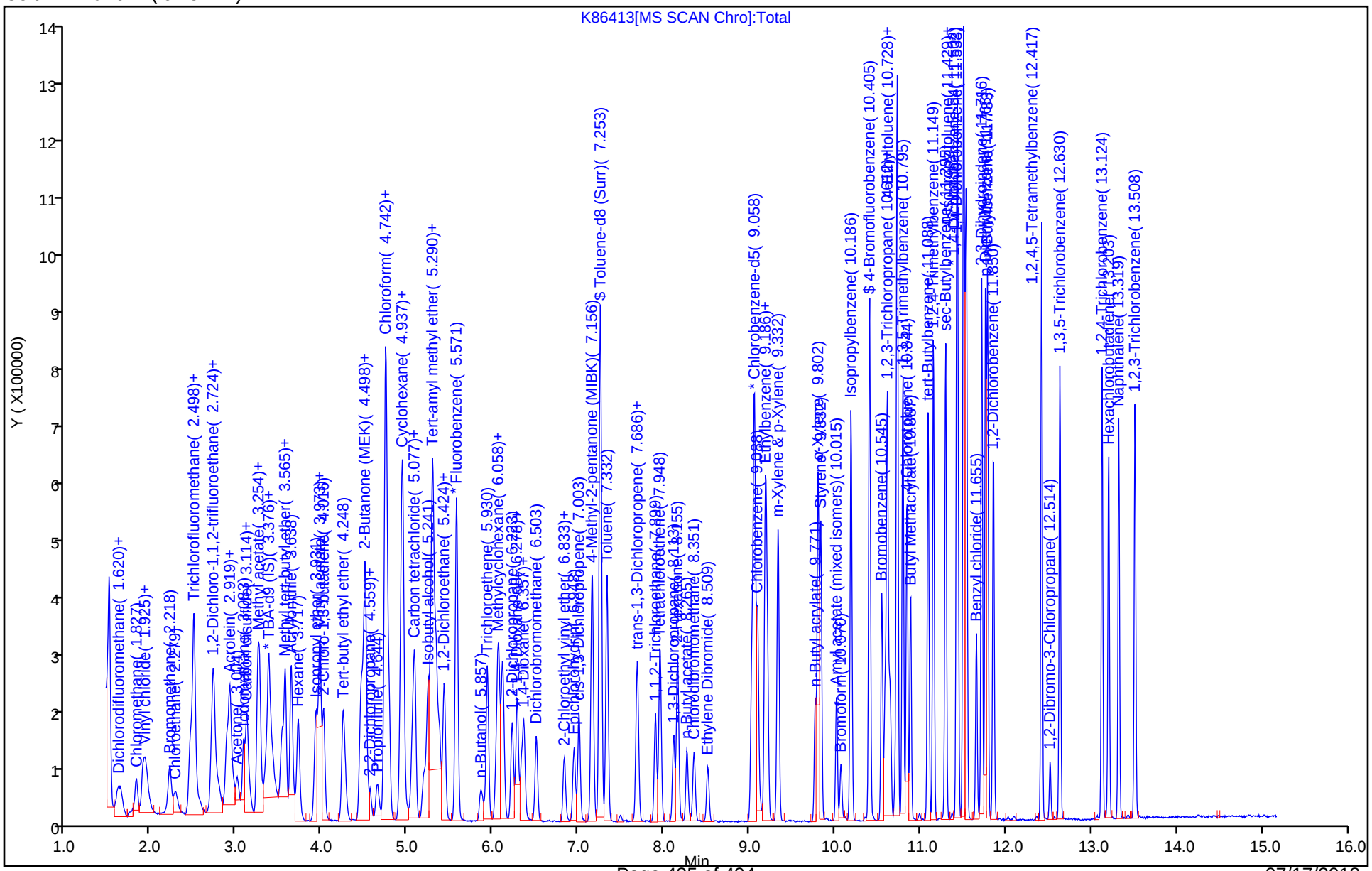
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535482/3

Matrix: Solid | Lab File ID: K86443.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 20:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.2		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	23.1		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	22.5		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.1		1.0	0.18
75-34-3	1,1-Dichloroethane	22.7		1.0	0.21
75-35-4	1,1-Dichloroethene	21.0		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.5		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	20.3		1.0	0.46
95-50-1	1,2-Dichlorobenzene	19.9		1.0	0.14
107-06-2	1,2-Dichloroethane	18.9		1.0	0.30
78-87-5	1,2-Dichloropropane	22.8		1.0	0.42
541-73-1	1,3-Dichlorobenzene	20.0		1.0	0.16
106-46-7	1,4-Dichlorobenzene	19.5		1.0	0.10
78-93-3	2-Butanone (MEK)	85.9		5.0	1.1
591-78-6	2-Hexanone	96.7		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	100		5.0	0.66
67-64-1	Acetone	91.1		5.0	3.8
71-43-2	Benzene	22.5		1.0	0.26
75-25-2	Bromoform	17.3		1.0	0.43
74-83-9	Bromomethane	20.7		1.0	0.47
75-15-0	Carbon disulfide	22.1		1.0	0.27
56-23-5	Carbon tetrachloride	19.6		1.0	0.18
108-90-7	Chlorobenzene	20.0		1.0	0.18
124-48-1	Dibromochloromethane	18.9		1.0	0.19
75-00-3	Chloroethane	23.3		1.0	0.52
67-66-3	Chloroform	21.0		1.0	0.32
74-87-3	Chloromethane	23.2		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	20.7		1.0	0.15
110-82-7	Cyclohexane	22.9		1.0	0.22
75-27-4	Bromodichloromethane	19.7		1.0	0.26
75-71-8	Dichlorodifluoromethane	21.6		1.0	0.34
100-41-4	Ethylbenzene	20.2		1.0	0.20
106-93-4	1,2-Dibromoethane	19.3		1.0	0.18
98-82-8	Isopropylbenzene	20.8		1.0	0.13
79-20-9	Methyl acetate	44.5		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCS 460-535482/3

Matrix: Solid | Lab File ID: K86443.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 20:07

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.0		1.0	0.13
108-87-2	Methylcyclohexane	22.2		1.0	0.16
75-09-2	Methylene Chloride	21.2		1.0	0.16
127-18-4	Tetrachloroethene	19.3		1.0	0.14
108-88-3	Toluene	20.7		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	21.5		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	20.3		1.0	0.27
79-01-6	Trichloroethene	20.4		1.0	0.14
75-69-4	Trichlorofluoromethane	19.5		1.0	0.41
75-01-4	Vinyl chloride	23.1		1.0	0.55
1330-20-7	Xylenes, Total	40.8		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	20.5		1.0	0.27
100-42-5	Styrene	20.7		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-135
460-00-4	4-Bromofluorobenzene	95		67-126
2037-26-5	Toluene-d8 (Surr)	101		73-121
1868-53-7	Dibromofluoromethane (Surr)	100		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86443.D
Lims ID: LCS
Client ID:
Sample Type: LCS
Inject. Date: 11-Jul-2018 20:07:30 ALS Bottle#: 2 Worklist Smp#: 3
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCS
Misc. Info.: 460-0075283-003
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 20:40:19 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: sarmientod Date: 11-Jul-2018 20:47:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.596	1.596	0.000	85	55448	20.0	17.7	a
2 Dichlorodifluoromethane	85	1.639	1.632	0.007	99	140513	20.0	21.6	
3 Chloromethane	50	1.821	1.809	0.012	99	124047	20.0	23.2	
4 Vinyl chloride	62	1.907	1.901	0.006	98	126673	20.0	23.1	
5 Butadiene	54	1.931	1.925	0.006	98	104504	20.0	23.9	
6 Bromomethane	94	2.212	2.205	0.007	98	104094	20.0	20.7	
7 Chloroethane	64	2.285	2.266	0.019	100	69170	20.0	23.3	
8 Trichlorofluoromethane	101	2.455	2.455	0.000	69	169618	20.0	19.5	
9 Dichlorofluoromethane	67	2.474	2.455	0.019	97	179568	20.0	21.8	
10 Pentane	72	2.504	2.492	0.012	96	26145	40.0	37.8	
12 Ethanol	46	2.712	2.687	0.025	65	19316	800.0	1051.2	
11 Ethyl ether	59	2.699	2.687	0.012	94	58877	20.0	23.2	
13 2-Methyl-1,3-butadiene	53	2.724	2.711	0.013	95	66556	20.0	24.4	
14 1,2-Dichloro-1,1,2-trifluo	117	2.748	2.736	0.012	94	95396	20.0	22.3	
15 Acrolein	56	2.882	2.876	0.006	96	111554	300.0	234.5	
17 1,1-Dichloroethene	96	2.919	2.907	0.012	97	88459	20.0	21.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.925	-0.006	53	103913	20.0	22.5	
18 Acetone	43	3.004	2.998	0.006	88	111902	100.0	91.1	
19 Iodomethane	142	3.077	3.071	0.006	97	205137	20.0	20.2	
22 Isopropyl alcohol	45	3.102	3.083	0.019	97	66638	200.0	216.8	a
20 Carbon disulfide	76	3.114	3.108	0.006	99	301961	20.0	22.1	
21 3-Chloro-1-propene	76	3.242	3.230	0.012	96	54920	20.0	22.5	
23 Methyl acetate	43	3.248	3.242	0.006	97	103047	40.0	44.5	
24 Cyclopentene	67	3.266	3.260	0.006	93	203092	20.0	24.7	
29 Acetonitrile	41	3.315	3.315	0.000	94	128418	200.0	222.3	a
26 Methylene Chloride	84	3.370	3.364	0.006	87	100574	20.0	21.2	
* 25 TBA-d9 (IS)	65	3.376	3.370	0.006	0	447916	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.437	3.437	0.000	93	126122	200.0	189.8	
28 Methyl tert-butyl ether	73	3.535	3.522	0.013	95	253101	20.0	21.0	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	91	97958	20.0	21.5	
31 Acrylonitrile	53	3.632	3.626	0.006	94	281457	200.0	255.1	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.717	3.705	0.012	92	66119	20.0	25.7	
33 Isopropyl ether	45	3.925	3.919	0.006	94	248824	20.0	25.9	
35 Vinyl acetate	86	3.967	3.961	0.006	99	29412	40.0	33.9	
34 1,1-Dichloroethane	63	3.967	3.967	0.000	78	152144	20.0	22.7	
36 2-Chloro-1,3-butadiene	88	4.016	4.010	0.006	89	83327	20.0	22.4	
37 Tert-butyl ethyl ether	59	4.248	4.242	0.006	90	252584	20.0	22.5	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	300815	250.0	250.0	
39 2,2-Dichloropropane	79	4.473	4.473	0.000	93	45597	20.0	21.4	
41 Ethyl acetate	70	4.504	4.492	0.012	92	17124	40.0	38.1	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	111944	20.0	20.7	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	97	48117	100.0	85.9	
44 Methyl acrylate	55	4.559	4.559	0.000	98	61252	20.0	23.1	
43 Propionitrile	54	4.644	4.638	0.006	98	110245	200.0	198.3	
46 Chlorobromomethane	128	4.736	4.723	0.013	77	59427	20.0	19.6	
45 Tetrahydrofuran	72	4.723	4.729	-0.006	61	22926	40.0	35.7	
47 Methacrylonitrile	67	4.742	4.742	0.000	91	318261	200.0	230.4	
48 Chloroform	83	4.778	4.778	0.000	99	171067	20.0	21.0	
49 Cyclohexane	84	4.924	4.912	0.012	89	136911	20.0	22.9	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	157943	20.0	20.2	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	223434	50.0	50.1	
52 Carbon tetrachloride	117	5.053	5.052	0.001	98	135500	20.0	19.6	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	97	119788	20.0	21.6	
56 Isobutyl alcohol	74	5.187	5.193	-0.006	91	11124	500.0	436.5	
54 Benzene	78	5.284	5.278	0.006	95	357471	20.0	22.5	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.296	0.000	0	192421	50.0	46.4	
57 Isopropyl acetate	43	5.321	5.315	0.006	95	233419	20.0	22.6	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	94	82926	20.0	20.5	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	97	109462	20.0	18.9	
60 n-Heptane	57	5.424	5.424	0.000	89	69067	20.0	23.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	648221	50.0	50.0	
62 n-Butanol	56	5.851	5.857	-0.006	86	63730	500.0	469.9	
63 Trichloroethene	95	5.930	5.930	0.000	94	93880	20.0	20.4	
64 Ethyl acrylate	56	6.058	6.058	0.000	91	52457	20.0	22.5	a
65 Methylcyclohexane	83	6.058	6.058	0.000	93	168061	20.0	22.2	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	91	80361	20.0	22.8	
* 67 1,4-Dioxane-d8	96	6.272	6.278	-0.006	0	37279	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	82	98079	40.0	44.7	
69 1,4-Dioxane	88	6.327	6.321	0.006	27	22632	400.0	407.5	
70 n-Propyl acetate	43	6.333	6.333	0.000	97	95185	20.0	23.6	
71 Dibromomethane	93	6.357	6.357	0.000	93	59721	20.0	20.0	
72 Dichlorobromomethane	83	6.503	6.503	0.000	98	113733	20.0	19.7	
74 2-Nitropropane	41	6.833	6.827	0.006	79	23620	40.0	32.0	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.006	83	40809	20.0	21.7	
75 Epichlorohydrin	57	6.942	6.942	0.000	99	145831	400.0	368.9	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	124332	20.0	20.5	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	368325	100.0	100.2	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	742047	50.0	50.7	
79 Toluene	91	7.333	7.333	0.000	93	382070	20.0	20.7	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	111698	20.0	20.3	
81 Ethyl methacrylate	69	7.692	7.692	0.000	88	96231	20.0	22.0	
82 1,1,2-Trichloroethane	83	7.900	7.900	0.000	96	59942	20.0	21.1	
83 Tetrachloroethene	166	7.954	7.948	0.006	97	116901	20.0	19.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	92	109335	20.0	21.0	
85 2-Hexanone	43	8.156	8.156	0.000	94	227582	100.0	96.7	
86 n-Butyl acetate	43	8.265	8.265	0.000	99	102243	20.0	24.3	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	84490	20.0	18.9	
88 Ethylene Dibromide	107	8.515	8.509	0.006	100	76954	20.0	19.3	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	551477	50.0	50.0	
90 Chlorobenzene	112	9.094	9.094	0.000	99	259747	20.0	20.0	
92 Ethylbenzene	106	9.186	9.186	0.000	97	141708	20.0	20.2	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	95	102259	20.0	19.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	175860	20.0	20.4	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	57641	20.0	22.1	
95 o-Xylene	106	9.802	9.802	0.000	95	185452	20.0	20.5	
96 Styrene	104	9.832	9.832	0.000	97	286902	20.0	20.7	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	91	122102	20.0	25.1	
98 Bromoform	173	10.070	10.070	0.000	98	52351	20.0	17.3	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	490041	20.0	20.8	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	280002	50.0	47.3	
101 Bromobenzene	156	10.545	10.551	-0.006	87	131984	20.0	19.7	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	98	109943	20.0	23.1	
103 N-Propylbenzene	91	10.612	10.612	0.000	100	552275	20.0	22.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	97	30694	20.0	20.5	
105 trans-1,4-Dichloro-2-buten	53	10.655	10.655	0.000	93	23652	20.0	21.3	
106 2-Chlorotoluene	91	10.728	10.728	0.000	91	373929	20.0	21.7	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	487634	20.0	21.7	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	412049	20.0	20.9	
109 4-Chlorotoluene	91	10.844	10.844	0.000	96	310639	20.0	21.6	
110 Butyl Methacrylate	87	10.887	10.887	0.000	88	122321	20.0	21.9	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	339229	20.0	20.2	
112 1,2,4-Trimethylbenzene	105	11.155	11.149	0.006	97	431440	20.0	20.9	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	543892	20.0	21.5	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	488047	20.0	20.7	
115 1,3-Dichlorobenzene	146	11.435	11.435	0.000	98	254234	20.0	20.0	
* 116 1,4-Dichlorobenzene-d4	152	11.502	11.502	0.000	92	343577	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	250681	20.0	19.5	
118 Benzyl chloride	91	11.655	11.655	0.000	99	214141	20.0	21.4	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	457164	20.0	20.8	
120 p-Diethylbenzene	119	11.765	11.765	0.000	95	297018	20.0	21.7	
121 n-Butylbenzene	92	11.783	11.783	0.000	98	248390	20.0	22.6	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	98	256312	20.0	19.9	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	481409	20.0	20.4	
124 1,2-Dibromo-3-Chloropropan	75	12.514	12.514	0.000	91	19928	20.0	20.3	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	230820	20.0	19.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	93	218768	20.0	19.5	
127 Hexachlorobutadiene	225	13.203	13.203	0.000	96	109484	20.0	20.0	
128 Naphthalene	128	13.319	13.319	0.000	99	483909	20.0	20.7	
129 1,2,3-Trichlorobenzene	180	13.508	13.514	-0.006	96	215551	20.0	19.9	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.2	
S 131 Xylenes, Total	100				0		40.0	40.8	
S 132 Total BTEX	1				0		100.0	104.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 12-Jul-2018 20:40:52 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86443.D

Injection Date: 11-Jul-2018 20:07:30 Instrument ID: CVOAMS9 Operator ID:

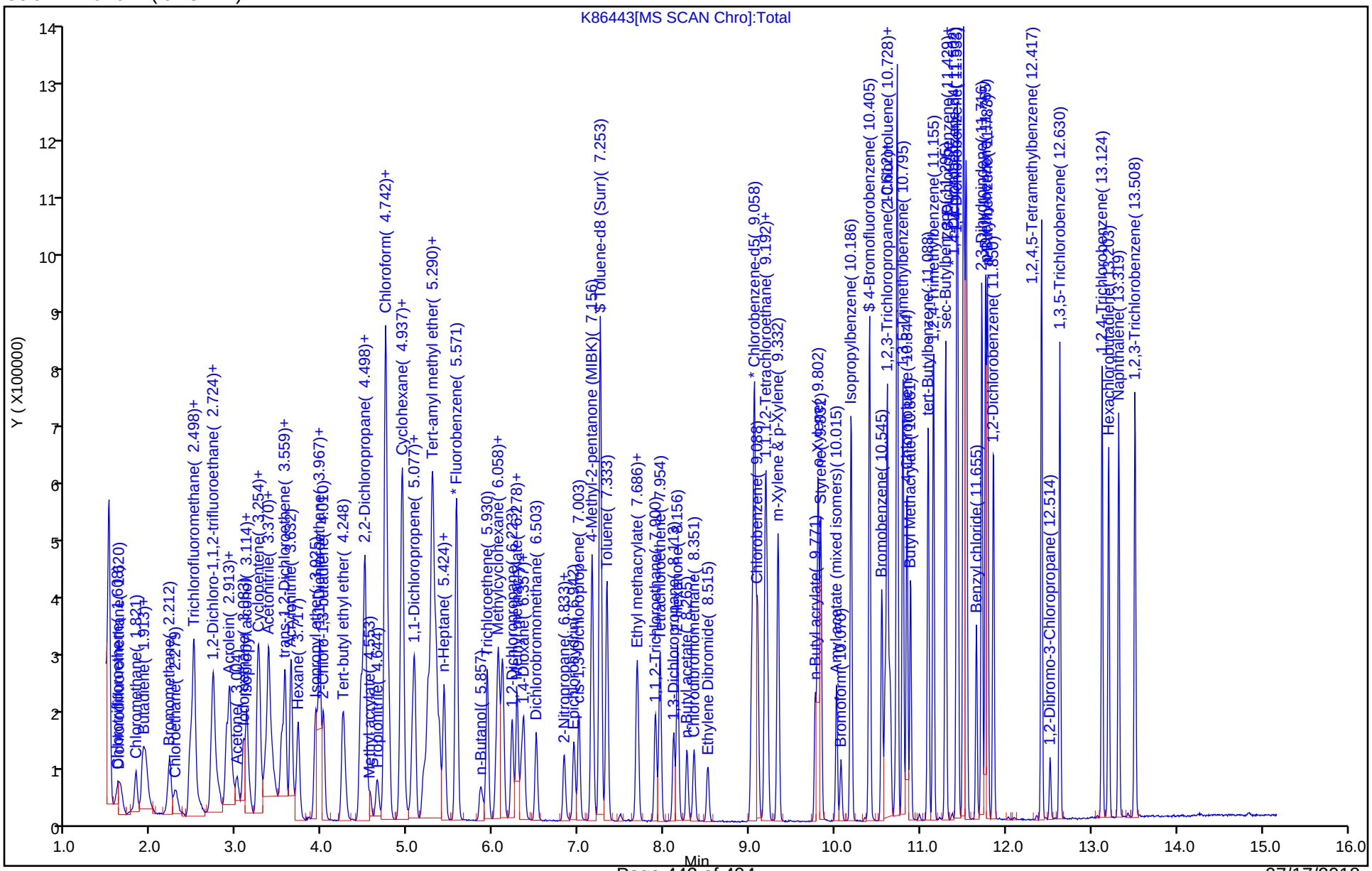
Lims ID: LCS Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 2

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-535216/4

Matrix: Solid | Lab File ID: K86414.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 08:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	20.5		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	22.7		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.1		1.0	0.30
79-00-5	1,1,2-Trichloroethane	21.9		1.0	0.18
75-34-3	1,1-Dichloroethane	23.3		1.0	0.21
75-35-4	1,1-Dichloroethene	21.0		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	19.1		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	19.4		1.0	0.46
95-50-1	1,2-Dichlorobenzene	19.8		1.0	0.14
107-06-2	1,2-Dichloroethane	19.1		1.0	0.30
78-87-5	1,2-Dichloropropane	23.2		1.0	0.42
541-73-1	1,3-Dichlorobenzene	19.8		1.0	0.16
106-46-7	1,4-Dichlorobenzene	19.6		1.0	0.10
78-93-3	2-Butanone (MEK)	87.3		5.0	1.1
591-78-6	2-Hexanone	95.9		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	99.2		5.0	0.66
67-64-1	Acetone	93.5		5.0	3.8
71-43-2	Benzene	22.3		1.0	0.26
75-25-2	Bromoform	16.9		1.0	0.43
74-83-9	Bromomethane	16.9		1.0	0.47
75-15-0	Carbon disulfide	22.4		1.0	0.27
56-23-5	Carbon tetrachloride	20.1		1.0	0.18
108-90-7	Chlorobenzene	20.2		1.0	0.18
124-48-1	Dibromochloromethane	19.0		1.0	0.19
75-00-3	Chloroethane	18.3		1.0	0.52
67-66-3	Chloroform	20.5		1.0	0.32
74-87-3	Chloromethane	18.3		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	21.0		1.0	0.15
110-82-7	Cyclohexane	23.7		1.0	0.22
75-27-4	Bromodichloromethane	19.6		1.0	0.26
75-71-8	Dichlorodifluoromethane	17.0		1.0	0.34
100-41-4	Ethylbenzene	20.8		1.0	0.20
106-93-4	1,2-Dibromoethane	20.0		1.0	0.18
98-82-8	Isopropylbenzene	21.1		1.0	0.13
79-20-9	Methyl acetate	43.0		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-535216/4

Matrix: Solid | Lab File ID: K86414.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 08:11

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535216 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.5		1.0	0.13
108-87-2	Methylcyclohexane	23.6		1.0	0.16
75-09-2	Methylene Chloride	21.9		1.0	0.16
127-18-4	Tetrachloroethene	19.5		1.0	0.14
108-88-3	Toluene	20.8		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	21.7		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	20.2		1.0	0.27
79-01-6	Trichloroethene	20.9		1.0	0.14
75-69-4	Trichlorofluoromethane	16.5		1.0	0.41
75-01-4	Vinyl chloride	18.7		1.0	0.55
1330-20-7	Xylenes, Total	41.7		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.4		1.0	0.27
100-42-5	Styrene	21.3		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	97		78-135
460-00-4	4-Bromofluorobenzene	97		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	103		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86414.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jul-2018 08:11:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075237-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 11-Jul-2018 10:32:18 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK026

First Level Reviewer: delpolitov Date: 11-Jul-2018 10:33:30

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.620	1.602	0.018	79	56190	20.0	18.4	
2 Dichlorodifluoromethane	85	1.645	1.645	0.000	99	108010	20.0	17.0	
3 Chloromethane	50	1.822	1.816	0.006	99	95605	20.0	18.3	
4 Vinyl chloride	62	1.907	1.901	0.006	98	100175	20.0	18.7	
5 Butadiene	54	1.937	1.937	0.000	97	80765	20.0	18.9	
6 Bromomethane	94	2.218	2.218	0.000	99	82655	20.0	16.9	
7 Chloroethane	64	2.285	2.273	0.012	98	52905	20.0	18.3	
9 Dichlorofluoromethane	67	2.474	2.462	0.012	97	145973	20.0	18.1	a
8 Trichlorofluoromethane	101	2.456	2.468	-0.012	96	139758	20.0	16.5	
10 Pentane	72	2.498	2.504	-0.006	98	24696	40.0	35.9	
12 Ethanol	46	2.699	2.675	0.024	75	17386	800.0	952.7	
11 Ethyl ether	59	2.705	2.693	0.012	95	58228	20.0	23.5	
13 2-Methyl-1,3-butadiene	53	2.724	2.724	0.000	97	67374	20.0	25.3	
14 1,2-Dichloro-1,1,2-trifluo	117	2.754	2.742	0.012	94	94959	20.0	22.7	
15 Acrolein	56	2.882	2.876	0.006	96	100076	300.0	211.8	
17 1,1-Dichloroethene	96	2.919	2.913	0.006	96	86424	20.0	21.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.913	0.006	95	104366	20.0	23.1	
18 Acetone	43	3.004	2.998	0.006	87	112881	100.0	93.5	
19 Iodomethane	142	3.077	3.071	0.006	97	203676	20.0	20.6	
22 Isopropyl alcohol	45	3.090	3.102	-0.012	28	65152	200.0	213.5	a
20 Carbon disulfide	76	3.120	3.114	0.006	99	298922	20.0	22.4	
21 3-Chloro-1-propene	76	3.242	3.242	0.000	90	52342	20.0	21.9	
23 Methyl acetate	43	3.248	3.248	0.000	89	98879	40.0	43.0	
24 Cyclopentene	67	3.266	3.260	0.006	93	198761	20.0	24.8	
29 Acetonitrile	41	3.315	3.321	-0.006	93	122247	200.0	213.1	a
26 Methylene Chloride	84	3.376	3.370	0.006	86	101384	20.0	21.9	
* 25 TBA-d9 (IS)	65	3.364	3.370	-0.006	0	444859	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.449	3.419	0.030	91	124161	200.0	188.2	
28 Methyl tert-butyl ether	73	3.535	3.523	0.012	95	252867	20.0	21.5	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	91	96585	20.0	21.7	
31 Acrylonitrile	53	3.638	3.632	0.006	93	269000	200.0	249.8	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.724	3.712	0.012	91	62683	20.0	24.9	
33 Isopropyl ether	45	3.925	3.919	0.006	93	236990	20.0	25.3	
34 1,1-Dichloroethane	63	3.974	3.968	0.006	75	151853	20.0	23.3	
35 Vinyl acetate	86	3.974	3.968	0.006	99	29712	40.0	34.4	
36 2-Chloro-1,3-butadiene	88	4.016	4.016	0.000	90	81701	20.0	22.5	
37 Tert-butyl ethyl ether	59	4.242	4.248	-0.006	89	247447	20.0	22.5	
* 38 2-Butanone-d5	46	4.449	4.443	0.006	0	295634	250.0	250.0	
39 2,2-Dichloropropane	79	4.480	4.467	0.013	89	43449	20.0	20.9	
40 cis-1,2-Dichloroethene	96	4.504	4.498	0.006	77	110786	20.0	21.0	
41 Ethyl acetate	70	4.504	4.498	0.006	87	16627	40.0	37.6	
42 2-Butanone (MEK)	72	4.504	4.516	-0.012	97	48046	100.0	87.3	
44 Methyl acrylate	55	4.565	4.565	0.000	98	60768	20.0	23.5	
43 Propionitrile	54	4.644	4.638	0.006	97	108450	200.0	196.4	
46 Chlorobromomethane	128	4.736	4.730	0.006	76	59243	20.0	20.0	
45 Tetrahydrofuran	72	4.729	4.736	-0.007	61	23463	40.0	37.2	
47 Methacrylonitrile	67	4.742	4.742	0.000	90	319009	200.0	236.6	
48 Chloroform	83	4.778	4.778	0.000	99	163295	20.0	20.5	
49 Cyclohexane	84	4.925	4.919	0.006	88	138613	20.0	23.7	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	155943	20.0	20.5	
$ 51 Dibromofluoromethane (Surr	113	4.943	4.937	0.006	97	224388	50.0	51.5	
52 Carbon tetrachloride	117	5.059	5.059	0.000	98	135905	20.0	20.1	
53 1,1-Dichloropropene	75	5.083	5.077	0.006	97	120127	20.0	22.2	
56 Isobutyl alcohol	74	5.199	5.205	-0.006	93	11769	500.0	465.0	
54 Benzene	78	5.284	5.284	0.000	95	343121	20.0	22.3	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.296	5.290	0.006	0	197063	50.0	48.7	
57 Isopropyl acetate	43	5.321	5.327	-0.006	96	228033	20.0	22.6	
58 Tert-amyl methyl ether	87	5.327	5.333	-0.006	93	81766	20.0	20.7	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	97	108036	20.0	19.1	
60 n-Heptane	57	5.431	5.412	0.019	88	67479	20.0	23.0	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	632786	50.0	50.0	
62 n-Butanol	56	5.857	5.864	-0.007	87	65606	500.0	487.1	
63 Trichloroethene	95	5.930	5.931	-0.001	95	93728	20.0	20.9	
64 Ethyl acrylate	56	6.058	6.046	0.012	98	52860	20.0	23.2	
65 Methylcyclohexane	83	6.065	6.059	0.006	94	174344	20.0	23.6	
66 1,2-Dichloropropane	63	6.223	6.223	0.000	93	79864	20.0	23.2	
* 67 1,4-Dioxane-d8	96	6.272	6.266	0.006	0	38411	1000.0	1000.0	
68 Methyl methacrylate	69	6.284	6.278	0.006	82	98463	40.0	46.0	
69 1,4-Dioxane	88	6.333	6.327	0.006	27	22671	400.0	396.2	
70 n-Propyl acetate	43	6.333	6.333	0.000	98	93504	20.0	23.8	
71 Dibromomethane	93	6.363	6.357	0.006	92	57000	20.0	19.5	
72 Dichlorobromomethane	83	6.504	6.498	0.006	98	110813	20.0	19.6	
73 2-Chloroethyl vinyl ether	63	6.827	6.833	-0.006	82	40725	20.0	22.2	
74 2-Nitropropane	41	6.839	6.833	0.006	80	24736	40.0	34.3	
75 Epichlorohydrin	57	6.942	6.943	-0.001	98	143000	400.0	368.0	
76 cis-1,3-Dichloropropene	75	7.003	7.004	-0.001	89	125552	20.0	21.4	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	358571	100.0	99.2	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	738072	50.0	52.0	
79 Toluene	91	7.333	7.327	0.006	93	371162	20.0	20.8	
80 trans-1,3-Dichloropropene	75	7.680	7.674	0.006	98	107937	20.0	20.2	
81 Ethyl methacrylate	69	7.692	7.699	-0.007	87	90927	20.0	21.4	
82 1,1,2-Trichloroethane	83	7.900	7.900	0.000	96	60346	20.0	21.9	
83 Tetrachloroethene	166	7.954	7.948	0.006	97	114573	20.0	19.5	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.113	8.113	0.000	91	107763	20.0	21.4	
85 2-Hexanone	43	8.156	8.156	0.000	95	221778	100.0	95.9	
86 n-Butyl acetate	43	8.265	8.265	0.000	99	103962	20.0	25.5	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	82569	20.0	19.0	
88 Ethylene Dibromide	107	8.509	8.515	-0.006	99	77265	20.0	20.0	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	534383	50.0	50.0	
90 Chlorobenzene	112	9.094	9.089	0.006	98	254553	20.0	20.2	
92 Ethylbenzene	106	9.186	9.186	0.000	97	141650	20.0	20.8	
91 1,1,1,2-Tetrachloroethane	131	9.210	9.204	0.006	95	100674	20.0	19.3	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	176614	20.0	21.1	
94 n-Butyl acrylate	73	9.765	9.771	-0.006	97	57567	20.0	22.7	
95 o-Xylene	106	9.802	9.802	0.000	95	181278	20.0	20.6	
96 Styrene	104	9.832	9.832	0.000	97	285794	20.0	21.3	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	118264	20.0	24.8	
98 Bromoform	173	10.070	10.070	0.000	98	49690	20.0	16.9	
99 Isopropylbenzene	105	10.186	10.186	0.000	94	481959	20.0	21.1	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	278894	50.0	48.6	
101 Bromobenzene	156	10.545	10.546	-0.001	87	126479	20.0	19.3	
102 1,1,2,2-Tetrachloroethane	83	10.588	10.588	0.000	98	106108	20.0	22.7	
103 N-Propylbenzene	91	10.612	10.613	-0.001	100	540834	20.0	22.3	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	95	31474	20.0	21.5	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.661	-0.012	92	22984	20.0	21.2	
106 2-Chlorotoluene	91	10.728	10.728	0.000	90	355999	20.0	21.1	
107 4-Ethyltoluene	105	10.728	10.728	0.000	90	470902	20.0	21.3	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	402481	20.0	20.8	
109 4-Chlorotoluene	91	10.844	10.844	0.000	95	301241	20.0	21.3	
110 Butyl Methacrylate	87	10.887	10.887	0.000	86	120012	20.0	22.0	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	334966	20.0	20.4	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	419227	20.0	20.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	530830	20.0	21.4	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	476866	20.0	20.6	
115 1,3-Dichlorobenzene	146	11.435	11.436	-0.001	99	246683	20.0	19.8	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.503	0.000	92	336723	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	247199	20.0	19.6	
118 Benzyl chloride	91	11.655	11.655	0.000	100	210165	20.0	21.4	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	439191	20.0	20.4	
120 p-Diethylbenzene	119	11.759	11.765	-0.006	95	286120	20.0	21.4	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	236463	20.0	21.9	
122 1,2-Dichlorobenzene	146	11.850	11.856	-0.006	99	250519	20.0	19.8	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	98	465565	20.0	20.1	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.515	0.000	92	18732	20.0	19.4	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	226427	20.0	19.6	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	95	209656	20.0	19.1	
127 Hexachlorobutadiene	225	13.203	13.204	-0.001	96	102500	20.0	19.1	
128 Naphthalene	128	13.319	13.319	0.000	99	478717	20.0	20.9	
129 1,2,3-Trichlorobenzene	180	13.508	13.508	0.000	96	206781	20.0	19.5	
S 130 1,2-Dichloroethene, Total	100				0		40.0	42.8	
S 131 Xylenes, Total	100				0		40.0	41.7	
S 132 Total BTEX	1				0		100.0	105.6	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 11-Jul-2018 10:33:32 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75237.b\K86414.D

Injection Date: 11-Jul-2018 08:11:30 Instrument ID: CVOAMS9 Operator ID:

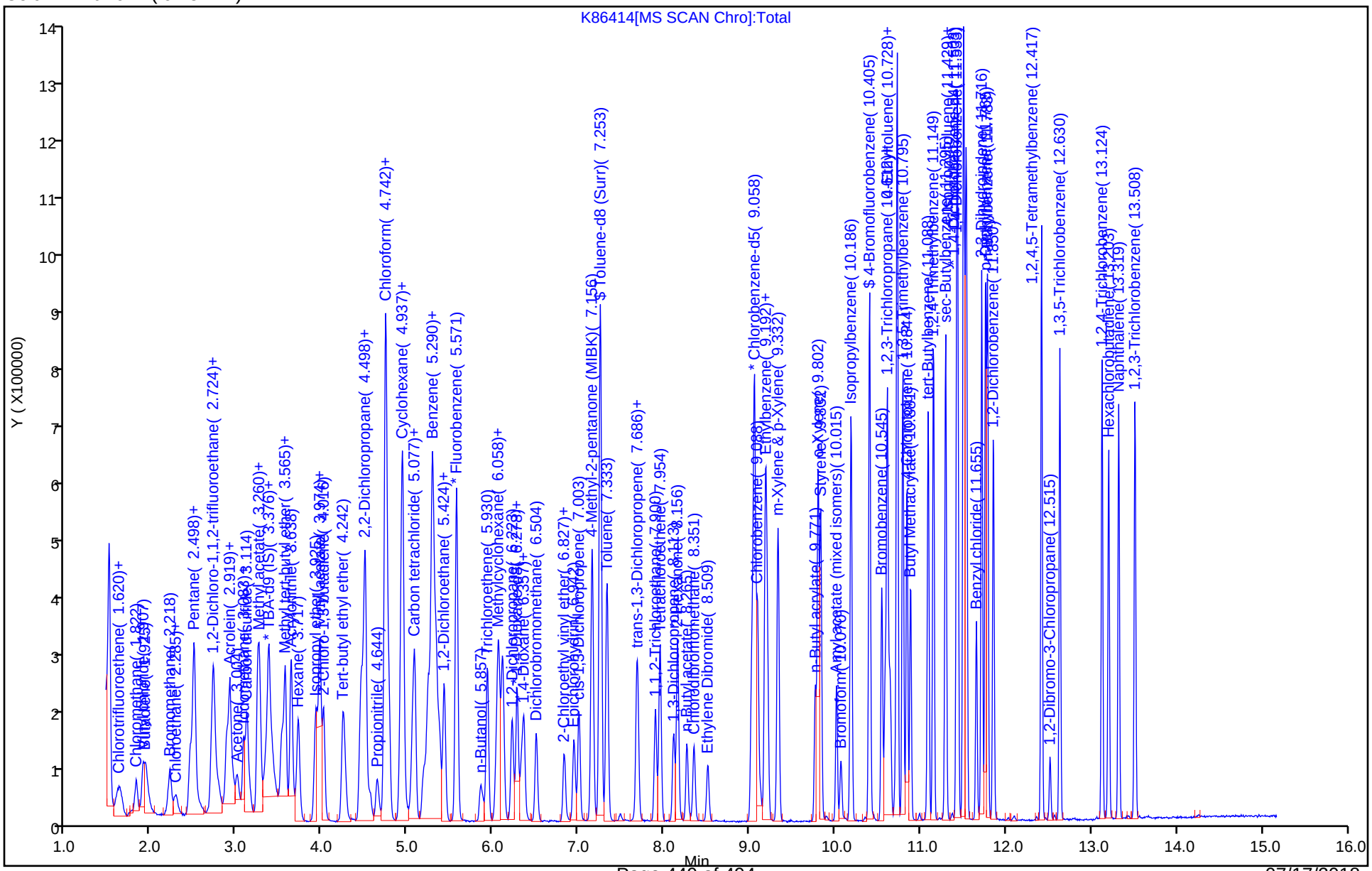
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-535482/4

Matrix: Solid | Lab File ID: K86444.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 20:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	21.1		1.0	0.23
79-34-5	1,1,2,2-Tetrachloroethane	23.3		1.0	0.21
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	23.6		1.0	0.30
79-00-5	1,1,2-Trichloroethane	22.5		1.0	0.18
75-34-3	1,1-Dichloroethane	24.0		1.0	0.21
75-35-4	1,1-Dichloroethene	22.0		1.0	0.23
120-82-1	1,2,4-Trichlorobenzene	20.1		1.0	0.092
96-12-8	1,2-Dibromo-3-Chloropropane	20.0		1.0	0.46
95-50-1	1,2-Dichlorobenzene	21.1		1.0	0.14
107-06-2	1,2-Dichloroethane	19.4		1.0	0.30
78-87-5	1,2-Dichloropropane	23.7		1.0	0.42
541-73-1	1,3-Dichlorobenzene	21.0		1.0	0.16
106-46-7	1,4-Dichlorobenzene	20.6		1.0	0.10
78-93-3	2-Butanone (MEK)	90.0		5.0	1.1
591-78-6	2-Hexanone	105		5.0	0.78
108-10-1	4-Methyl-2-pentanone (MIBK)	107		5.0	0.66
67-64-1	Acetone	98.2		5.0	3.8
71-43-2	Benzene	22.9		1.0	0.26
75-25-2	Bromoform	18.1		1.0	0.43
74-83-9	Bromomethane	21.5		1.0	0.47
75-15-0	Carbon disulfide	23.0		1.0	0.27
56-23-5	Carbon tetrachloride	20.6		1.0	0.18
108-90-7	Chlorobenzene	21.1		1.0	0.18
124-48-1	Dibromochloromethane	19.5		1.0	0.19
75-00-3	Chloroethane	23.6		1.0	0.52
67-66-3	Chloroform	21.5		1.0	0.32
74-87-3	Chloromethane	24.6		1.0	0.44
156-59-2	cis-1,2-Dichloroethene	21.3		1.0	0.15
110-82-7	Cyclohexane	24.0		1.0	0.22
75-27-4	Bromodichloromethane	20.6		1.0	0.26
75-71-8	Dichlorodifluoromethane	22.4		1.0	0.34
100-41-4	Ethylbenzene	21.6		1.0	0.20
106-93-4	1,2-Dibromoethane	20.6		1.0	0.18
98-82-8	Isopropylbenzene	21.6		1.0	0.13
79-20-9	Methyl acetate	49.6		5.0	4.3

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison | Job No.: 460-159550-1

SDG No.:

Client Sample ID: | Lab Sample ID: LCSD 460-535482/4

Matrix: Solid | Lab File ID: K86444.D

Analysis Method: 8260C | Date Collected:

Sample wt/vol: 5(mL) | Date Analyzed: 07/11/2018 20:31

Soil Aliquot Vol: | Dilution Factor: 1

Soil Extract Vol.: | GC Column: Rtx-624 ID: 0.25(mm)

% Moisture: | Level: (low/med) Low

Analysis Batch No.: 535482 | Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
1634-04-4	Methyl tert-butyl ether	21.9		1.0	0.13
108-87-2	Methylcyclohexane	23.7		1.0	0.16
75-09-2	Methylene Chloride	22.4		1.0	0.16
127-18-4	Tetrachloroethene	19.9		1.0	0.14
108-88-3	Toluene	21.4		1.0	0.63
156-60-5	trans-1,2-Dichloroethene	22.4		1.0	0.25
10061-02-6	trans-1,3-Dichloropropene	21.1		1.0	0.27
79-01-6	Trichloroethene	21.6		1.0	0.14
75-69-4	Trichlorofluoromethane	22.0		1.0	0.41
75-01-4	Vinyl chloride	24.1		1.0	0.55
1330-20-7	Xylenes, Total	42.3		2.0	0.25
10061-01-5	cis-1,3-Dichloropropene	21.2		1.0	0.27
100-42-5	Styrene	21.7		1.0	0.12

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	93		78-135
460-00-4	4-Bromofluorobenzene	96		67-126
2037-26-5	Toluene-d8 (Surr)	104		73-121
1868-53-7	Dibromofluoromethane (Surr)	102		61-149

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86444.D
Lims ID: LCSD
Client ID:
Sample Type: LCSD
Inject. Date: 11-Jul-2018 20:31:30 ALS Bottle#: 3 Worklist Smp#: 4
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: LCSD
Misc. Info.: 460-0075283-004
Operator ID: Instrument ID: CVOAMS9

Method: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\8260S9.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 12-Jul-2018 20:41:49 Calib Date: 06-Jul-2018 03:48:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS9\20180706-74947.b\K86123.D

Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK005

First Level Reviewer: sarmientod Date: 11-Jul-2018 22:06:09

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
1 Chlorotrifluoroethene	116	1.590	1.596	-0.006	86	53974	20.0	17.9	a
2 Dichlorodifluoromethane	85	1.639	1.632	0.007	99	140854	20.0	22.4	
3 Chloromethane	50	1.822	1.809	0.013	99	127068	20.0	24.6	
4 Vinyl chloride	62	1.907	1.901	0.006	98	127867	20.0	24.1	
5 Butadiene	54	1.931	1.925	0.006	97	105499	20.0	25.0	
6 Bromomethane	94	2.206	2.205	0.001	98	103938	20.0	21.5	
7 Chloroethane	64	2.285	2.266	0.019	100	67604	20.0	23.6	
8 Trichlorofluoromethane	101	2.468	2.455	0.013	76	184625	20.0	22.0	
9 Dichlorofluoromethane	67	2.468	2.455	0.013	96	197475	20.0	24.8	
10 Pentane	72	2.504	2.492	0.012	97	27759	40.0	44.9	
12 Ethanol	46	2.748	2.687	0.061	69	20023	800.0	1219.3	a
11 Ethyl ether	59	2.693	2.687	0.006	92	58771	20.0	24.0	
13 2-Methyl-1,3-butadiene	53	2.718	2.711	0.007	94	67944	20.0	25.9	
14 1,2-Dichloro-1,1,2-trifluo	117	2.742	2.736	0.006	95	96014	20.0	23.2	
15 Acrolein	56	2.876	2.876	0.000	96	106195	300.0	249.8	
17 1,1-Dichloroethene	96	2.913	2.907	0.006	98	89349	20.0	22.0	
16 1,1,2-Trichloro-1,2,2-trif	101	2.919	2.925	-0.006	53	105424	20.0	23.6	
18 Acetone	43	3.004	2.998	0.006	87	109767	100.0	98.2	
19 Iodomethane	142	3.077	3.071	0.006	97	208299	20.0	21.3	
22 Isopropyl alcohol	45	3.090	3.083	0.007	98	62769	200.0	228.5	a
20 Carbon disulfide	76	3.114	3.108	0.006	99	303036	20.0	23.0	
21 3-Chloro-1-propene	76	3.242	3.230	0.012	91	55159	20.0	23.4	
23 Methyl acetate	43	3.248	3.242	0.006	97	102567	40.0	49.6	
24 Cyclopentene	67	3.266	3.260	0.006	92	206157	20.0	26.0	
29 Acetonitrile	41	3.309	3.315	-0.006	91	124297	200.0	240.8	a
26 Methylene Chloride	84	3.370	3.364	0.006	86	102400	20.0	22.4	
* 25 TBA-d9 (IS)	65	3.370	3.370	0.000	0	400314	1000.0	1000.0	
27 2-Methyl-2-propanol	59	3.443	3.437	0.006	94	120101	200.0	202.3	
28 Methyl tert-butyl ether	73	3.529	3.522	0.007	95	253840	20.0	21.9	
30 trans-1,2-Dichloroethene	96	3.565	3.559	0.006	92	98403	20.0	22.4	
31 Acrylonitrile	53	3.632	3.626	0.006	94	272717	200.0	256.3	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
32 Hexane	43	3.718	3.705	0.013	92	67815	20.0	27.3	
33 Isopropyl ether	45	3.925	3.919	0.006	93	251021	20.0	27.1	
35 Vinyl acetate	86	3.974	3.961	0.013	99	28745	40.0	37.0	
34 1,1-Dichloroethane	63	3.968	3.967	0.001	82	154543	20.0	24.0	
36 2-Chloro-1,3-butadiene	88	4.016	4.010	0.006	90	82613	20.0	23.1	
37 Tert-butyl ethyl ether	59	4.242	4.242	0.000	90	253177	20.0	23.3	
* 38 2-Butanone-d5	46	4.443	4.443	0.000	0	273656	250.0	250.0	
39 2,2-Dichloropropane	79	4.467	4.473	-0.006	92	46333	20.0	22.5	
41 Ethyl acetate	70	4.504	4.492	0.012	92	16004	40.0	39.2	
40 cis-1,2-Dichloroethene	96	4.498	4.498	0.000	98	111081	20.0	21.3	
42 2-Butanone (MEK)	72	4.504	4.498	0.006	97	45848	100.0	90.0	
44 Methyl acrylate	55	4.553	4.559	-0.006	98	55369	20.0	21.7	
43 Propionitrile	54	4.644	4.638	0.006	97	106998	200.0	215.3	
46 Chlorobromomethane	128	4.730	4.723	0.007	69	59450	20.0	20.3	
45 Tetrahydrofuran	72	4.730	4.729	0.001	59	22675	40.0	38.8	
47 Methacrylonitrile	67	4.742	4.742	0.000	90	311748	200.0	234.0	
48 Chloroform	83	4.778	4.778	0.000	99	168641	20.0	21.5	
49 Cyclohexane	84	4.919	4.912	0.007	88	138317	20.0	24.0	
50 1,1,1-Trichloroethane	97	4.931	4.931	0.000	96	159027	20.0	21.1	
$ 51 Dibromofluoromethane (Surr	113	4.937	4.937	0.000	97	219357	50.0	51.0	
52 Carbon tetrachloride	117	5.059	5.052	0.007	98	137857	20.0	20.6	
53 1,1-Dichloropropene	75	5.077	5.077	0.000	98	120930	20.0	22.6	
56 Isobutyl alcohol	74	5.193	5.193	0.000	86	10316	500.0	452.9	a
54 Benzene	78	5.284	5.278	0.006	95	356681	20.0	22.9	
$ 55 1,2-Dichloroethane-d4 (Sur	65	5.297	5.296	0.000	0	186851	50.0	46.7	
57 Isopropyl acetate	43	5.321	5.315	0.006	96	240654	20.0	24.2	
58 Tert-amyl methyl ether	87	5.327	5.327	0.000	93	82105	20.0	21.0	
59 1,2-Dichloroethane	62	5.370	5.370	0.000	96	108337	20.0	19.4	
60 n-Heptane	57	5.418	5.424	-0.006	88	70635	20.0	24.4	
* 61 Fluorobenzene	96	5.571	5.571	0.000	100	625273	50.0	50.0	
62 n-Butanol	56	5.845	5.857	-0.012	88	60793	500.0	501.6	a
63 Trichloroethene	95	5.931	5.930	0.001	94	95768	20.0	21.6	
64 Ethyl acrylate	56	6.052	6.058	-0.006	97	51742	20.0	23.0	
65 Methylcyclohexane	83	6.059	6.058	0.001	93	172697	20.0	23.7	
66 1,2-Dichloropropane	63	6.217	6.223	-0.006	91	80416	20.0	23.7	
* 67 1,4-Dioxane-d8	96	6.272	6.278	-0.006	0	34572	1000.0	1000.0	
68 Methyl methacrylate	69	6.278	6.278	0.000	83	97094	40.0	45.9	
69 1,4-Dioxane	88	6.321	6.321	0.000	29	21908	400.0	425.4	
70 n-Propyl acetate	43	6.327	6.333	-0.006	97	92531	20.0	23.8	
71 Dibromomethane	93	6.357	6.357	0.000	92	57972	20.0	20.1	
72 Dichlorobromomethane	83	6.504	6.503	0.001	99	115061	20.0	20.6	
74 2-Nitropropane	41	6.833	6.827	0.006	79	24600	40.0	34.6	
73 2-Chloroethyl vinyl ether	63	6.833	6.833	0.000	83	41743	20.0	23.0	
75 Epichlorohydrin	57	6.943	6.942	0.001	99	138271	400.0	384.5	
76 cis-1,3-Dichloropropene	75	7.003	7.003	0.000	90	126017	20.0	21.2	
77 4-Methyl-2-pentanone (MIBK	43	7.156	7.156	0.000	95	359254	100.0	107.4	
$ 78 Toluene-d8 (Surr)	98	7.253	7.253	0.000	99	744343	50.0	51.8	
79 Toluene	91	7.333	7.333	0.000	93	386475	20.0	21.4	
80 trans-1,3-Dichloropropene	75	7.680	7.680	0.000	98	113911	20.0	21.1	
81 Ethyl methacrylate	69	7.692	7.692	0.000	87	97105	20.0	22.6	
82 1,1,2-Trichloroethane	83	7.894	7.900	-0.006	96	62639	20.0	22.5	
83 Tetrachloroethene	166	7.955	7.948	0.007	97	118171	20.0	19.9	

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
84 1,3-Dichloropropane	76	8.107	8.113	-0.006	89	112113	20.0	22.0	
85 2-Hexanone	43	8.156	8.156	0.000	94	225645	100.0	105.4	
86 n-Butyl acetate	43	8.265	8.265	0.000	98	100745	20.0	24.4	
87 Chlorodibromomethane	129	8.351	8.351	0.000	97	85559	20.0	19.5	
88 Ethylene Dibromide	107	8.509	8.509	0.000	98	80324	20.0	20.6	
* 89 Chlorobenzene-d5	117	9.058	9.058	0.000	83	540777	50.0	50.0	
90 Chlorobenzene	112	9.095	9.094	0.001	98	268339	20.0	21.1	
92 Ethylbenzene	106	9.186	9.186	0.000	97	148796	20.0	21.6	
91 1,1,1,2-Tetrachloroethane	131	9.204	9.210	-0.006	95	105929	20.0	20.0	
93 m-Xylene & p-Xylene	106	9.332	9.332	0.000	0	179433	20.0	21.2	
94 n-Butyl acrylate	73	9.771	9.771	0.000	98	59382	20.0	23.2	
95 o-Xylene	106	9.802	9.802	0.000	95	188001	20.0	21.1	
96 Styrene	104	9.832	9.832	0.000	96	295537	20.0	21.7	
97 Amyl acetate (mixed isomer	43	10.015	10.021	-0.006	92	123500	20.0	25.7	
98 Bromoform	173	10.070	10.070	0.000	98	53836	20.0	18.1	
99 Isopropylbenzene	105	10.186	10.186	0.000	95	499200	20.0	21.6	
$ 100 4-Bromofluorobenzene	174	10.405	10.405	0.000	97	279054	50.0	48.0	
101 Bromobenzene	156	10.552	10.551	0.001	87	135703	20.0	20.5	
102 1,1,2,2-Tetrachloroethane	83	10.582	10.588	-0.006	98	110123	20.0	23.3	
103 N-Propylbenzene	91	10.613	10.612	0.001	100	568317	20.0	23.2	
104 1,2,3-Trichloropropane	110	10.637	10.637	0.000	96	32510	20.0	22.0	
105 trans-1,4-Dichloro-2-buten	53	10.649	10.655	-0.006	94	23501	20.0	21.4	
106 2-Chlorotoluene	91	10.728	10.728	0.000	89	383876	20.0	22.5	
107 4-Ethyltoluene	105	10.728	10.728	0.000	91	505475	20.0	22.7	
108 1,3,5-Trimethylbenzene	105	10.795	10.795	0.000	94	422404	20.0	21.7	
109 4-Chlorotoluene	91	10.838	10.844	-0.006	96	318992	20.0	22.4	
110 Butyl Methacrylate	87	10.881	10.887	-0.006	87	128695	20.0	23.3	
111 tert-Butylbenzene	119	11.088	11.088	0.000	95	340747	20.0	20.5	
112 1,2,4-Trimethylbenzene	105	11.149	11.149	0.000	97	443463	20.0	21.8	
113 sec-Butylbenzene	105	11.295	11.295	0.000	99	553466	20.0	22.1	
114 4-Isopropyltoluene	119	11.423	11.423	0.000	98	495016	20.0	21.2	
115 1,3-Dichlorobenzene	146	11.436	11.435	0.001	98	264195	20.0	21.0	
* 116 1,4-Dichlorobenzene-d4	152	11.503	11.502	0.001	91	339888	50.0	50.0	
117 1,4-Dichlorobenzene	146	11.527	11.527	0.000	97	262419	20.0	20.6	
118 Benzyl chloride	91	11.655	11.655	0.000	100	214153	20.0	21.6	
119 2,3-Dihydroindene	117	11.716	11.716	0.000	94	470023	20.0	21.6	
120 p-Diethylbenzene	119	11.765	11.765	0.000	96	301489	20.0	22.3	
121 n-Butylbenzene	92	11.783	11.783	0.000	97	251516	20.0	23.1	
122 1,2-Dichlorobenzene	146	11.856	11.856	0.000	99	268592	20.0	21.1	
123 1,2,4,5-Tetramethylbenzene	119	12.417	12.417	0.000	97	490533	20.0	21.0	
124 1,2-Dibromo-3-Chloropropan	75	12.515	12.514	0.001	92	19455	20.0	20.0	
125 1,3,5-Trichlorobenzene	180	12.630	12.630	0.000	97	238847	20.0	20.5	
126 1,2,4-Trichlorobenzene	180	13.124	13.124	0.000	94	222855	20.0	20.1	
127 Hexachlorobutadiene	225	13.204	13.203	0.001	96	108324	20.0	20.0	
128 Naphthalene	128	13.319	13.319	0.000	99	493689	20.0	21.4	
129 1,2,3-Trichlorobenzene	180	13.508	13.514	-0.006	96	219825	20.0	20.6	
S 130 1,2-Dichloroethene, Total	100				0		40.0	43.7	
S 131 Xylenes, Total	100				0		40.0	42.3	
S 132 Total BTEX	1				0		100.0	108.2	

QC Flag Legend

Review Flags

a - User Assigned ID

Reagents:

GASES Li_00268	Amount Added:	2.00	Units: uL	
ACROLEIN W_00078	Amount Added:	3.00	Units: uL	
8260MIX1COMB_00082	Amount Added:	2.00	Units: uL	
8260SURR250_00179	Amount Added:	1.00	Units: uL	Run Reagent
8260ISNEW_00120	Amount Added:	1.00	Units: uL	Run Reagent

Report Date: 12-Jul-2018 20:41:51 Chrom Revision: 2.2 07-Jun-2018 07:41:54

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS9\20180711-75283.b\K86444.D

Injection Date: 11-Jul-2018 20:31:30 Instrument ID: CVOAMS9 Operator ID:

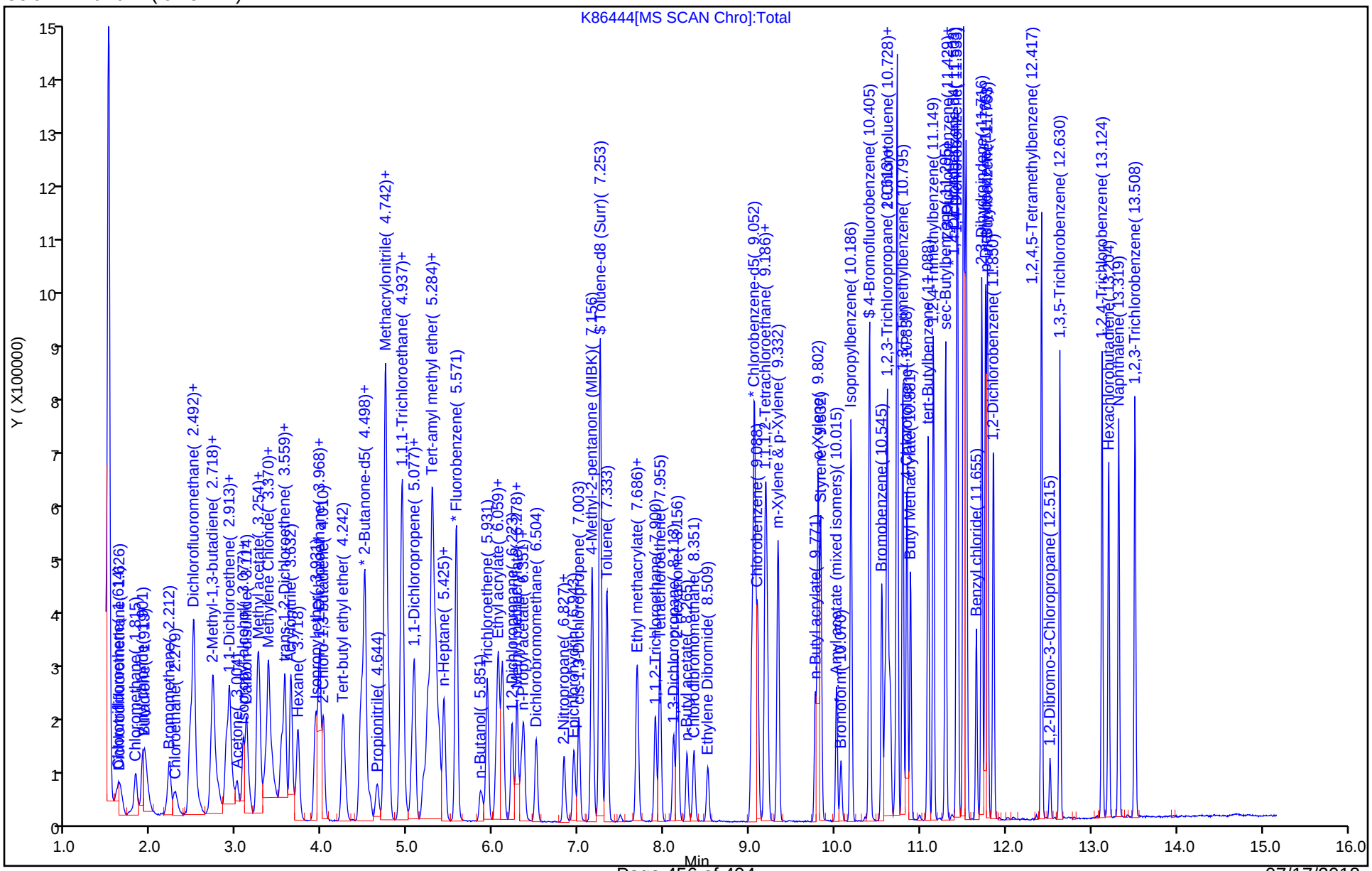
Lims ID: LCSD Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL Dil. Factor: 1.0000 ALS Bottle#: 3

Method: 8260S9 Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: CVOAMS1 Start Date: 07/02/2018 04:55

Analysis Batch Number: 532718 End Date: 07/02/2018 11:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-532718/1		07/02/2018 04:55	1	A58063.D	Rtx-624 0.25(mm)
STD7 460-532718/4 IC		07/02/2018 06:22	1	A58066.D	Rtx-624 0.25(mm)
STD5 460-532718/6 IC		07/02/2018 07:08	1	A58068.D	Rtx-624 0.25(mm)
STD20 460-532718/7 ICIS		07/02/2018 07:32	1	A58069.D	Rtx-624 0.25(mm)
STD50 460-532718/8 IC		07/02/2018 07:55	1	A58070.D	Rtx-624 0.25(mm)
STD200 460-532718/9 IC		07/02/2018 08:18	1	A58071.D	Rtx-624 0.25(mm)
STD500 460-532718/10 IC		07/02/2018 08:42	1	A58072.D	Rtx-624 0.25(mm)
STD1 460-532718/15 IC		07/02/2018 11:35	1	A58077.D	Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: CVOAMS1 Start Date: 07/08/2018 17:45

Analysis Batch Number: 534459 End Date: 07/09/2018 04:52

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-534459/1		07/08/2018 17:45	1	A58428.D	Rtx-624 0.25(mm)
CCVIS 460-534459/3		07/08/2018 18:28	1	A58430.D	Rtx-624 0.25(mm)
LCS 460-534459/4		07/08/2018 18:59	1	A58431.D	Rtx-624 0.25(mm)
MB 460-534459/8		07/08/2018 20:32	1	A58435.D	Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 21:06	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 21:29	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 21:53	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 22:16	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 22:39	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 23:02	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 23:26	1		Rtx-624 0.25(mm)
ZZZZZ		07/08/2018 23:49	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 00:12	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 00:36	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 00:59	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 01:22	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 01:46	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 02:09	1		Rtx-624 0.25(mm)
460-159550-1		07/09/2018 02:32	1	A58450.D	Rtx-624 0.25(mm)
460-159550-3		07/09/2018 02:56	1	A58451.D	Rtx-624 0.25(mm)
460-159550-2		07/09/2018 03:19	1	A58452.D	Rtx-624 0.25(mm)
460-159550-4		07/09/2018 03:42	1	A58453.D	Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 04:29	1		Rtx-624 0.25(mm)
ZZZZZ		07/09/2018 04:52	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/06/2018 00:52

Analysis Batch Number: 533800 End Date: 07/06/2018 05:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-533800/1		07/06/2018 00:52	1	K86116.D	Rtx-624 0.25(mm)
STD1 460-533800/3 IC		07/06/2018 01:46	1	K86118.D	Rtx-624 0.25(mm)
STD5 460-533800/4 IC		07/06/2018 02:10	1	K86119.D	Rtx-624 0.25(mm)
STD20 460-533800/5 ICIS		07/06/2018 02:35	1	K86120.D	Rtx-624 0.25(mm)
STD50 460-533800/6 IC		07/06/2018 02:59	1	K86121.D	Rtx-624 0.25(mm)
STD200 460-533800/7 IC		07/06/2018 03:23	1	K86122.D	Rtx-624 0.25(mm)
STD500 460-533800/8 IC		07/06/2018 03:48	1	K86123.D	Rtx-624 0.25(mm)
ICV 460-533800/12		07/06/2018 05:26	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/11/2018 06:56

Analysis Batch Number: 535216 End Date: 07/11/2018 18:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-535216/1		07/11/2018 06:56	1	K86411.D	Rtx-624 0.25(mm)
CCVIS 460-535216/2		07/11/2018 07:22	1	K86412.D	Rtx-624 0.25(mm)
LCS 460-535216/3		07/11/2018 07:47	1	K86413.D	Rtx-624 0.25(mm)
LCSD 460-535216/4		07/11/2018 08:11	1	K86414.D	Rtx-624 0.25(mm)
MB 460-535216/7		07/11/2018 09:33	1	K86417.D	Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 09:58	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 10:22	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 10:46	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 11:36	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 12:00	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 12:25	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 12:50	1		Rtx-624 0.25(mm)
460-159550-5		07/11/2018 13:14	1	K86426.D	Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 14:03	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 14:27	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 15:15	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 15:40	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 16:04	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 16:29	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 16:53	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 17:18	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 17:42	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 18:06	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 18:30	1		Rtx-624 0.25(mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: CVOAMS9 Start Date: 07/11/2018 19:14

Analysis Batch Number: 535482 End Date: 07/12/2018 06:17

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-535482/1		07/11/2018 19:14	1	K86441.D	Rtx-624 0.25(mm)
CCVIS 460-535482/2		07/11/2018 19:42	1	K86442.D	Rtx-624 0.25(mm)
LCS 460-535482/3		07/11/2018 20:07	1	K86443.D	Rtx-624 0.25(mm)
LCSD 460-535482/4		07/11/2018 20:31	1	K86444.D	Rtx-624 0.25(mm)
MB 460-535482/7		07/11/2018 21:44	1	K86447.D	Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 22:08	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 22:33	1		Rtx-624 0.25(mm)
460-159550-6		07/11/2018 22:57	1	K86450.D	Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 23:22	1		Rtx-624 0.25(mm)
ZZZZZ		07/11/2018 23:46	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 00:36	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 01:00	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 01:25	1		Rtx-624 0.25(mm)
460-159550-8		07/12/2018 02:14	1	K86458.D	Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 03:27	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 04:16	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 04:40	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 05:05	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 05:29	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 05:53	1		Rtx-624 0.25(mm)
ZZZZZ		07/12/2018 06:17	1		Rtx-624 0.25(mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Batch Number: 532415 Batch Start Date: 06/30/18 10:14 Batch Analyst: Morrison, Derek

Batch Method: 5035 Batch End Date: 06/30/18 11:12

Lab Sample ID	Client Sample ID	Method Chain	Basis	TareWeight	Vial&SampleWt	InitialAmount	FinalAmount		
460-159550-B-5	PDI-18-SO-21-06282018	5035, 8260C	T	+030.871 g	37.96 g	7.089 g	5 mL		
460-159550-C-6	PDI-19-SO-79-06282018	5035, 8260C	T	+030.908 g	38.59 g	7.682 g	5 mL		
460-159550-B-8	PDI-20-SO-73-06292018	5035, 8260C	T	+030.922 g	38.16 g	7.238 g	5 mL		

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Batch Number: 534459 Batch Start Date: 07/08/18 17:45 Batch Analyst: Klusey, Sylvanus

Batch Method: 8260C Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260ISNEW 00119	8260MIX1COMB 00082	8260SURR250 00178	ACROLEIN W 00078
BFB 460-534459/1		8260C		5 mL	5 mL				
CCVIS 460-534459/3		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
LCS 460-534459/4		8260C		5 mL	5 mL	1 uL	20 uL	1 uL	4 uL
MB 460-534459/8		8260C		5 mL	5 mL	1 uL		1 uL	
460-159550-A-1	PDI-TB-06282018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159550-A-3	PDI-FB-06292018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159550-A-2	PDI-19-WG-85-06282018	8260C	T	5 mL	5 mL	1 uL		1 uL	
460-159550-A-4	PDI-20-WG-85-06292018	8260C	T	5 mL	5 mL	1 uL		1 uL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	BFB 00017	GASES Li 00267				
BFB 460-534459/1		8260C		1 uL					
CCVIS 460-534459/3		8260C			20 uL				
LCS 460-534459/4		8260C			20 uL				
MB 460-534459/8		8260C							
460-159550-A-1	PDI-TB-06282018	8260C	T						
460-159550-A-3	PDI-FB-06292018	8260C	T						
460-159550-A-2	PDI-19-WG-85-06282018	8260C	T						
460-159550-A-4	PDI-20-WG-85-06292018	8260C	T						

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159550-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-18-SO-21-06282018	460-159550-5
PDI-19-SO-79-06282018	460-159550-6
PDI-20-SO-73-06292018	460-159550-8

Comments:

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 460-159550-1

SDG No.:

Project: Former Aluminum Louvre

Client Sample ID	Lab Sample ID
PDI-19-SO-79-06282018	460-159550-6
PDI-19-SO-80-06292018	460-159550-7
PDI-20-SO-73-06292018	460-159550-8
PDI-20-SO-74-06292018	460-159550-9

Comments:

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-19-SO-79-06282018 Lab Sample ID: 460-159550-6

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG ID.:

Matrix: Solid Date Sampled: 06/28/2018 01:30

Reporting Basis: WET Date Received: 06/29/2018 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	0.88	2.0	0.30	mg/Kg	J	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-19-SO-80-06292018 Lab Sample ID: 460-159550-7

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG ID.:

Matrix: Solid Date Sampled: 06/28/2018 14:35

Reporting Basis: WET Date Received: 06/29/2018 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	1.1	1.9	0.29	mg/Kg	J	HF	1	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-20-SO-73-06292018 Lab Sample ID: 460-159550-8

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG ID.:

Matrix: Solid Date Sampled: 06/29/2018 11:50

Reporting Basis: WET Date Received: 06/29/2018 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	4.6	9.2	1.4	mg/Kg	J	HF	5	SM 3500 FE D

1B-IN
INORGANIC ANALYSIS DATA SHEET
GENERAL CHEMISTRY - ASTM LEACH

Client Sample ID: PDI-20-SO-74-06292018 Lab Sample ID: 460-159550-9

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG ID.:

Matrix: Solid Date Sampled: 06/29/2018 11:55

Reporting Basis: WET Date Received: 06/29/2018 19:00

CAS No.	Analyte	Result	RL	MDL	Units	C	Q	DIL	Method
15438-31-0	Ferrous Iron	6.2	10	1.5	mg/Kg	J	HF	5	SM 3500 FE D

2-IN
CALIBRATION QUALITY CONTROL
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Analyst: MDL Batch Start Date: 07/09/2018

Reporting Units: mg/L Analytical Batch No.: 423597

Sample Number	QC Type	Time	Analyte	Result	Spike Amount	(%) Recovery	Limits	Qual	Reagent
1	CCV	14:45	Ferrous Iron	1.82	2.00	91	90-110		FE 200ppm ICV 00023
2	CCB	14:45	Ferrous Iron	ND					
13	CCV	14:45	Ferrous Iron	1.96	2.00	98	90-110		FE 200ppm ICV 00023
14	CCB	14:45	Ferrous Iron	ND					
16	CCV	14:45	Ferrous Iron	1.88	2.00	94	90-110		FE 200ppm ICV 00023
17	CCB	14:45	Ferrous Iron	ND					

Note! Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM II-IN

3-IN
METHOD BLANK
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Method	Lab Sample ID	Analyte	Result	Qual	Units	RL	Dil
Batch ID: 423597 Date: 07/09/2018 14:45							
SM 3500 FE D	MB 480-423597/3	Ferrous Iron	ND		mg/Kg	0.10	1
Batch ID: 423597 Date: 07/09/2018 14:45							
SM 3500 FE D	MB 480-423404/1-A	Ferrous Iron	ND		mg/Kg	2.0	1

5-IN
MATRIX SPIKE SAMPLE RECOVERY
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Matrix: Solid

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 423597 Date: 07/09/2018 14:45											
SM 3500 FE D	460-159550-6	Ferrous Iron	0.88	J	mg/Kg						HF
SM 3500 FE D	460-159550-6 MS	Ferrous Iron	19.20		mg/Kg	19.9	92	70-130			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM V-IN

7A-IN
LAB CONTROL SAMPLE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Matrix: Water

Method	Lab Sample ID	Analyte	Result	C	Unit	Spike Amount	Pct. Rec.	Limits	RPD	RPD Limit	Q
Batch ID: 423597 Date: 07/09/2018 14:45											
						LCS Source: FE 200ppm ICV_00023					
SM 3500 FE D	LCS 480-423597/4	Ferrous Iron	1.83		mg/Kg	2.00	92	90-110			

Calculations are performed before rounding to avoid round-off errors in calculated results.

FORM VIIA-IN

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159550-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture RL Date: 02/15/2007 17:07

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job Number: 460-159550-1

SDG Number:

Matrix: Solid Instrument ID: NOEQUIP

Method: Moisture XRL Date: 01/01/2007 16:49

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		1	
Percent Solids		1	

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 460-159550-1

SDG Number:

Matrix: Solid Instrument ID: Genysis Spec2

Method: SM 3500 FE D MDL Date: 01/18/2010 00:00

Leach Method: D3987-85

Analyte	Wavelength/ Mass	RL (mg/Kg)	MDL (mg/Kg)
Ferrous Iron		2	0.3

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY - ASTM LEACH

Lab Name: TestAmerica Buffalo Job Number: 460-159550-1

SDG Number:

Matrix: Solid Instrument ID: Genysis Spec2

Method: SM 3500 FE D XMDL Date: 01/18/2010 00:00

Analyte	Wavelength/ Mass	XRL (mg/L)	XMDL (ug/L)
Ferrous Iron		0.1	0.075

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Instrument ID: NOEQUIP Method: Moisture

Start Date: 07/10/2018 07:33 End Date: 07/10/2018 07:33

Lab Sample ID	D / F	Type	Time	Analytes																				
				% Sol	Moist																			
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
460-159550-5	1	T	07:33	X	X																			
460-159550-6	1	T	07:33	X	X																			
460-159550-8	1	T	07:33	X	X																			
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					
ZZZZZZ			07:33																					

Prep Types

T = Total/NA

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Instrument ID: Genysis Spec2 Method: SM 3500 FE D

Start Date: 07/09/2018 14:45 End Date: 07/09/2018 14:45

Lab Sample ID	D / F	Type	Time	Analytes																			
				Fe2																			
CCV 480-423597/1	1		14:45	X																			
CCB 480-423597/2	1		14:45	X																			
MB 480-423597/3	1	T	14:45	X																			
LCS 480-423597/4	1	T	14:45	X																			
MB 480-423404/1-A	1	Y	14:45	X																			
ZZZZZZ			14:45																				
ZZZZZZ			14:45																				
ZZZZZZ			14:45																				
460-159550-6	1	Y	14:45	X																			
460-159550-6 MS	1	Y	14:45	X																			
460-159550-7	1	Y	14:45	X																			
460-159550-8	5	Y	14:45	X																			
CCV 480-423597/13	1		14:45	X																			
CCB 480-423597/14	1		14:45	X																			
460-159550-9	5	Y	14:45	X																			
CCV 480-423597/16	1		14:45	X																			
CCB 480-423597/17	1		14:45	X																			

Prep Types

T = Total/NA

Y = ASTM Leach

CURVE ON New Spec 2

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

418534

Analyst:	MDL
Start Date:	6-7-18
Start Time:	1245
End Time:	
DATE OF CURVE=	4/6/2018
PIPETTE	
USED SQUARE CUVETTES	
EQL:	0.10 mg/L

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.100	0.019
Std. 3	0.500	0.074
Std. 4	1.000	0.160
Std. 5	3.000	0.399

4698376
CURVE SOLUTION: ~~4582863~~

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9977
Slope:	0.13206
Intercept:	0.00890

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	~~3188795~~ 4595762

ICV INFORMATION

Solution #	~~4562862~~ 3305349
~~0.7025 of FAS (3916794) up to 0.5L~~	TM 6-7-18
Concentration (mg/L)	2.00
ICV	True value: 2.00

4696495

LCS Information:

Solution #	4565972
Concentration (mg/L):	2
LCS	True value: 2.00

Matrix Spike Information:

Solution #	4565972
1.4047 of FAS (3305349) up to 1	1
MS	True Value 1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
MB	BLANK	25			0.000	1	ND	ND		
LCS	2 PPM	25			0.000	1	ND	ND	#VALUE!	
	0	25	0		0.000	1	ND	ND		
	0.1	25	0.021		0.000	1	ND	ND		
	0.5	25	0.091		0.000	1	ND	ND		
	1.0	25	0.173		0.000	1	ND	ND		
	3.0	25	0.509		0.000	1	ND	ND		
(2ppm)	ICV	25	0.374		2.1954 ~~0.000~~	1	ND	ND	110%	
	ICB	25	0		0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
CCV	2 PPM	25			0.000	1	ND	ND		
CCB	BLANK	25			0.000	1	ND	ND		

MDL 6-7-18

1.1 MDL 6-7-18

Calibration

Calib 418534-0 / Ferrous Iron

Curve Type:	Linear
Weighting:	None
Origin:	None
Dependency:	Concentration
Calib Mode:	ESTD
Response Base:	AREA
RF Rounding:	0

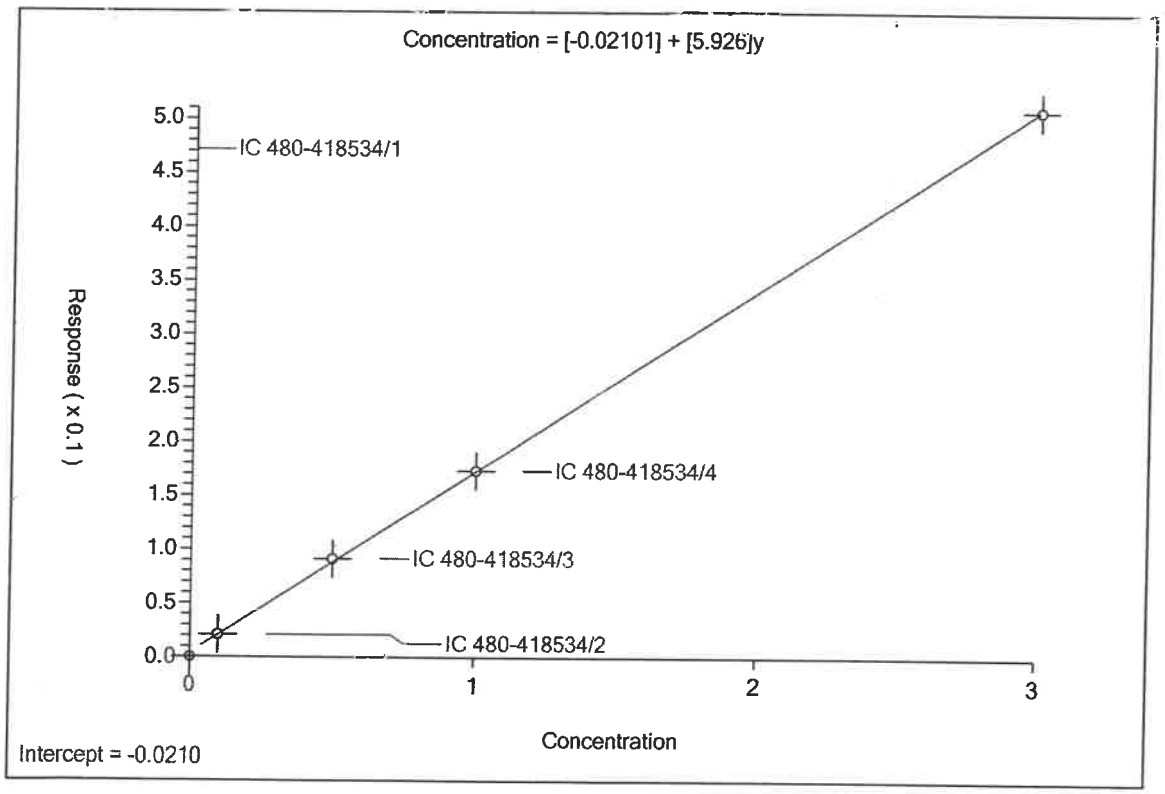
Curve Coefficients

Intercept:	-0.02101
Slope:	5.926

Error Coefficients

Standard Error:	0.0166
Relative Standard Error:	3.6
Correlation Coefficient:	1.000
Coefficient of Determination (Adjusted):	1.000 (1.000)

ID	Level	Concentration	Response	IS Amount	RF	IS Response	RF	Used
1	IC 480-418534/1	0.0	0.0		NaN		NaN	Y
2	IC 480-418534/2	0.1	0.021		0.052[illegible]		0.21	Y
3	IC 480-418534/3	0.5	0.091		0.045[illegible]		0.182	Y
4	IC 480-418534/4	1.0	0.173		0.04[illegible]		0.173	Y
5	IC 480-418534/5	3.0	0.509		0.04[illegible]		0.169667	Y



423597

Laboratory Bench Sheet
FERROUS IRON
Genesys 2

TestAmerica - Buffalo

Analyst:	MDL
Start Date:	7-9-18
Start Time:	1445
End Time:	
DATE OF CURVE=	6/7/2018
PIPETTE	
USED SQUARE CUVETTES	
EQL: 0.10	mg/L

ICV INFORMATION

Solution #		
0.7025 of FAS (3916794) up to 0.5L		
Concentration (mg/L)		2.00
ICV	True value:	2.00

Calibration Curve Information

	Conc.(mg/L)	ABS.
STD1	0.000	0.000
Std. 2	0.100	0.021
Std. 3	0.500	0.091
Std. 4	1.000	0.173
Std. 5	3.000	0.509

CURVE SOLUTION: 4582863

BATCH #	
Instrument Information	
Instrument:	Genesys 2
Wavelength:	510
Parameter:	Ferrous Iron
Corr. Coef:	0.9999
Slope:	0.16873
Intercept:	0.00357

Reagents Used	Solution ID#
Ferrous Iron Reagent Powder Pillow	~~3188795~~ A7172 mrf

LCS Information:

Solution #		4749535
Concentration (mg/L):		2
LCS	True value:	2.00

Matrix Spike Information:

Solution #		4749535
1.4047 of FAS (3305349) up to 1		1
MS	True Value	1.00

Job #	Sample ID	Sample Volume (mL)	Sample ABS.	Blank ABS.	Corrected ABS.	D.F.	Curve Conc. (mg/L)	Final Conc. (mg/L)	% Rec.	Comments
	CCV 2 PPM	25	0,310		0.000	1	ND	ND		
	CCB BLANK	25	0		0.000	1	ND	ND		
	MB BLANK	25	0		0.000	1	ND	ND		
	LCS 2 PPM	25	0,313		0.000	1	ND	ND	#VALUE!	
4748588	ASTM Blank	BATCH 423404 25	0,007	0,004	0.000	1	ND	ND		
4748589	460-159405	E-1 25	0,084	0,071	0.000	1	ND	ND		
4748590	460-159405	A-2 25	0,077	0,073	0.000	1	ND	ND		
4748591	460-159405	A-2 DV 25	0,082	0,075	0.000	1	ND	ND		
4748591	460-159550	E-6 25	0,132	0,121	0.000	1	ND	ND		
		E-6 MS 25	0,289	0,123	0.000	1	ND	ND		
4748592		A-7 25	0,099	0,086	0.000	1	ND	ND		
4748593		E-8 25	0,243	0,231	0.000	5	ND	ND		5ml->25ml
	CCV 2 PPM	25	0,334		0.000	1	ND	ND		
	CCB BLANK	25	0,003		0.000	1	ND	ND		
4748594	460-159550	A-9 25	0,218	0,204	0.000	5	ND	ND		5ml->25ml
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
		25			0.000	1	ND	ND		
	CCV 2 PPM	25	0,321		0.000	1	ND	ND		
	CCB BLANK	25	0,003		0.000	1	ND	ND		

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-159550-1

SDG No.:

Batch Number: 534926 Batch Start Date: 07/10/18 07:33 Batch Analyst: Potts, Brandon J

Batch Method: Moisture Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
460-159550-D-5	PDI-18-SO-21-06282018	Moisture	T	100	1.04 g	7.60 g	6.16 g		
460-159550-D-6	PDI-19-SO-79-06282018	Moisture	T	101	1.05 g	7.40 g	6.33 g		
460-159550-D-8	PDI-20-SO-73-06292018	Moisture	T	102	1.03 g	7.33 g	6.31 g		

Batch Notes	
Balance ID	104
Date samples were placed in the oven	07/10/2018
Oven Temp In	105 Degrees C
Time samples were place in the oven	07:50
Date samples were removed from oven	07/11/2018
Oven Temp Out	105 Degrees C
Time Samples were removed from oven	05:10
Oven ID	3
Thermometer ID	162115
Temperature - Start - Uncorrected	105 Degrees C
Temperature - End - Uncorrected	105 Degrees C

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Batch Number: 418534 Batch Start Date: 06/07/18 12:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	UnCorResp	CalcMsg	FE 200ppm ICV 00020	
IC 480-418534/1		SM 3500 FE D		100 mL	100 mL	0 Absorbance	OK w/o Correction		
IC 480-418534/2		SM 3500 FE D		100 mL	100 mL	0.021 Absorbance	OK w/o Correction	0.05 mL	
IC 480-418534/3		SM 3500 FE D		100 mL	100 mL	0.091 Absorbance	OK w/o Correction	0.25 mL	
IC 480-418534/4		SM 3500 FE D		100 mL	100 mL	0.173 Absorbance	OK w/o Correction	0.5 mL	
IC 480-418534/5		SM 3500 FE D		100 mL	100 mL	0.509 Absorbance	OK w/o Correction	1.5 mL	

Batch Notes	

Basis	Basis Description

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Batch Number: 423404 Batch Start Date: 07/08/18 11:38 Batch Analyst: Leader, Michael D

Batch Method: D3987-85 Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Final pH			
MB 480-423404/1		D3987-85, SM 3500 FE D		5 g	100 mL	6 SU			
460-159550-E-6	PDI-19-SO-79-062 82018	D3987-85, SM 3500 FE D	Y	5.0131 g	100 mL	6 SU			
460-159550-A-7	PDI-19-SO-80-062 92018	D3987-85, SM 3500 FE D	Y	5.2018 g	100 mL	6 SU			
460-159550-E-8	PDI-20-SO-73-062 92018	D3987-85, SM 3500 FE D	Y	5.4295 g	100 mL	6 SU			
460-159550-A-9	PDI-20-SO-74-062 92018	D3987-85, SM 3500 FE D	Y	5.0231 g	100 mL	6 SU			

Batch Notes	
Balance ID	#12
Filter ID	15025084
Final Room Temperature	20.9 Degrees C
Initial Room Temperature	20.5 Degrees C
Room Temperature Thermometer ID	160316917
Rotator ID	1
Tumble End Time	07/09/2018 10:00
Tumble Start Time	07/08/2018 16:00
Uncorrected Final Room Temperature	20.4 Degrees C
Uncorrected Initial Room Temperature	20.0 Degrees C

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 460-159550-1

SDG No.:

Batch Number: 423597 Batch Start Date: 07/09/18 14:45 Batch Analyst: Leader, Michael D

Batch Method: SM 3500 FE D Batch End Date:

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ColorBlk	UnCorResp	CalcMsg	FE 200ppm ICV 00023
CCV 480-423597/1		SM 3500 FE D		25 mL	25 mL		0.310 Absorbance	OK w/o Correction	0.25 mL
CCB 480-423597/2		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
MB 480-423597/3		SM 3500 FE D		25 mL	25 mL		0 Absorbance	OK w/o Correction	
LCS 480-423597/4		SM 3500 FE D		25 mL	25 mL		0.313 Absorbance	OK w/o Correction	0.25 mL
MB 480-423404/1-A		SM 3500 FE D		25 mL	25 mL	0.004 Absorbance	0.007 Absorbance	OK	
460-159550-E-6-A	PDI-19-SO-79-062 82018	SM 3500 FE D	Y	25 mL	25 mL	0.121 Absorbance	0.132 Absorbance	OK	
460-159550-E-6-A MS	PDI-19-SO-79-062 82018	SM 3500 FE D	Y	25 mL	25 mL	0.123 Absorbance	0.289 Absorbance	OK	0.125 mL
460-159550-A-7-A	PDI-19-SO-80-062 92018	SM 3500 FE D	Y	25 mL	25 mL	0.086 Absorbance	0.099 Absorbance	OK	
460-159550-E-8-A ^5	PDI-20-SO-73-062 92018	SM 3500 FE D	Y	25 mL	25 mL	0.231 Absorbance	0.243 Absorbance	OK	
CCV 480-423597/13		SM 3500 FE D		25 mL	25 mL		0.334 Absorbance	OK w/o Correction	0.25 mL
CCB 480-423597/14		SM 3500 FE D		25 mL	25 mL		0.003 Absorbance	OK w/o Correction	
460-159550-A-9-A ^5	PDI-20-SO-74-062 92018	SM 3500 FE D	Y	25 mL	25 mL	0.204 Absorbance	0.218 Absorbance	OK	
CCV 480-423597/16		SM 3500 FE D		25 mL	25 mL		0.321 Absorbance	OK w/o Correction	0.25 mL
CCB 480-423597/17		SM 3500 FE D		25 mL	25 mL		0.003 Absorbance	OK w/o Correction	

Batch Notes	

Basis	Basis Description
Y	ASTM Leach

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

Frank - Robinson

NYSC

Amy Picunas	becky.mason@testamericainc.com	Page: Page 1 of 2
Company: CDM Smith, Inc.		Job #: 160501 159550
Address: 11 British American Blvd Suite 200	Due Date Requested:	
City: Latham	TAT Requested (days): 14 Days	
State, Zip: NY, 12110	PO #: 77861	
Phone:	WO #:	
Email: picunasae@cdmsmith.com	Project #: 48016917	
Project Name: Former Aluminum Louvre	SSOW#:	
Site:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S

Other:

SHORT HOLD

460-159550 Chain of Custody

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - VOC	PFC_IDA - PFAS, Standard List	8270_SIM_14DX - 1,4-Dioxane	8260B_SIM - 1,4-Dioxane	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				A	N	N	A	N		
POI-TB-06282018	6/28/18	—	—	Water			✓					3	Trip Blank 1
POI-19-WG-85-06282018	6/28/18	1447	G	Water			✓					3	2
POI-FB-06292018	6/29/18	0915	—	Water			✓					3	Field Blank 3
POI-20-WG-85-06292018	6/29/18	1200	G	Water			✓					3	4
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									
				Water									

Possible Hazard Identification

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:		Method of Shipment:	
Relinquished by: Frank Robinson	Date/Time: 6/29/18 1350	Company: CDM	Received by:		Date/Time: 6/29/18 1350	Company: TA	
Relinquished by:	Date/Time: 6/29/18 1800	Company: TA	Received by:		Date/Time: 6/29/18 1900	Company: TA	
Relinquished by:	Date/Time: 6/29/18 1907	Company: TA	Received by: Joseph Sgroi		Date/Time: 6/29/18 1900	Company: TA/Esd	
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Ver: 08/04/2016

3.1/3.1 TRIP (1 PCS)

07/17/2018

Page 489 of 491

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica NYSC
THE LEADER IN ENVIRONMENTAL TESTING

460501

07/17/2018

Client Information	Sampler: Frank Robinson	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 480-114385-28424.1
Client Contact: Amy Picunas	Phone:	E-Mail: becky.mason@testamericainc.com		Page: Page 4 of 4
Company: CDM Smith, Inc.				Job #: 15956.0
Address: 11 British American Blvd Suite 200	Due Date Requested:			
City: Latham	TAT Requested (days): 14 Days			
State, Zip: NY, 12110				
Phone:	PO #: 77861			
Email: picunasae@cdmsmith.com	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260C - TCL list OLM04.2	3500_FE_D - Local Method	8260C - VOC	6010C, 7470A	8260C - TCLP Volatiles	8082A - PCB	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	F	N	N	N		
PDI-18-50-21-06282018	6/28/18	0935	G	Solid			✓							5
PDI-19-50-79-06282018	6/28/18	1430	G	Solid			✓	✓						6
PDI-19-50-80-06282018	6/28/18	1435	G	Solid				✓						7
PDI-20-50-73-06292018	6/29/18	1150	G	Solid			✓	✓						8
PDI-20-50-74-06292018	6/29/18	1155	G	Solid				✓						9
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		6/29/18 1350	Comp		6/29/18 1350	TA
2		6/29/18 1600	TA		6/29/18 1900	TA
3		6/29/18 1900	TA		6/29/18 19:00	TAL

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Ver: 08/04/2016

TestAmerica Edison
Receipt Temperature and pH Log

Job Number: 159556

Number of Coolers: 1 IR Gun # 11

Cooler Temperatures

	RAW	CORRECTED		RAW	CORRECTED		RAW	CORRECTED
Cooler #1:	2 °C	2 °C	Cooler #4:	°C	°C	Cooler #7:	°C	°C
Cooler #2:	°C	°C	Cooler #5:	°C	°C	Cooler #8:	°C	°C
Cooler #3:	°C	°C	Cooler #6:	°C	°C	Cooler #9:	°C	°C

TALS Sample Number	Ammonia (pH<2)	COD (pH<2)	Nitrate Nitrite (pH<2)	Metals* (pH<2)	Hardness (pH<2)	Pest (pH 5-9)	EPH or QAM (pH<2)	Phenols (pH<2)	Sulfide (pH>9)	TKN (pH<2)	TOC (pH<2)	Total Cyanide (pH>12)	Total Phos (pH<2)	Other	Other

If pH adjustments are required record the information below:

Sample No(s). adjusted: _____

Preservative Name/Conc.: _____ Volume of Preservative used (ml): _____

Lot # of Preservative(s): _____ Expiration Date: _____

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

** Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.*

Initials: _____ Date: 6/29/18

07/17/2018

TestAmerica Edison
777 New Durham Road
Edison, NJ 08817
Phone (732) 549-3900 Fax (732) 549-3679

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mason, Becky C	Carrier Tracking No(s):	COC No: 460-52007.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: becky.mason@testamericainc.com	State of Origin: New York	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note): NELAP - New York		Job #: 460-159550-1
Address: 10 Hazelwood Drive, ,	Due Date Requested: 7/12/2018			
City: Amherst	TAT Requested (days):			
State, Zip: NY, 14228-2298				
Phone: 716-691-2600(Tel) 716-691-7991(Fax)	PO #:			
Email:	WO #:			
Project Name: Former Aluminum Louvre	Project #: 48016917			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	3600_FE_D/ASTM_LEACH	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
PDI-19-SO-79-06282018 (460-159550-6)	6/28/18	15:30 Eastern		Solid			X	1	
PDI-19-SO-80-06292018 (460-159550-7)	6/28/18	14:35 Eastern		Solid			X	1	
PDI-20-SO-873-06292018 (460-159550-8)	6/29/18	11:50 Eastern		Solid			X	1	
PDI-20-SO-874-06292018 (460-159550-9)	6/29/18	11:55 Eastern		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification: Unconfirmed	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	7/2/18 1800	TAEdi		7/3/18 1010	TAB.
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: #1 2.7°

Ver: 09/20/2016

07/17/2018

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159550-1

Login Number: 159550
List Number: 1
Creator: DiGuardia, Joseph L

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: CDM Smith, Inc.

Job Number: 460-159550-1

Login Number: 159550
List Number: 2
Creator: Hulbert, Michael J

List Source: TestAmerica Buffalo
List Creation: 07/03/18 01:48 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.7 #1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	False	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

Appendix I

Data Usability Summary Report

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

April 20, 2019

Amy Picunas
CDM Smith
11 British American Blvd
Latham, NY 12110

RE: NYSDEC Former Aluminum Louvre Site
Validation of Analytical Laboratory Data
Data Usability Summary Report (DUSR)
TestAmerica SDG Nos. 480-150190-1 and 480-150235-1

Dear Ms. Picunas:

Review has been completed for the data packages generated by TestAmerica Laboratories, Inc that pertain to samples collected 03/12/19 and 03/13/19 at the NYSDEC Former Aluminum Louvre site. Twelve soil samples were processed for TCL volatile analytes by USEPA SW846 method 8260C.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology and the laboratory modifications. The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation
* Holding Times
* Surrogate and Internal Standard Recoveries
* Preparation Blank
* Laboratory Control Samples (LCSs)
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

The data review includes evaluation of the specific items noted in The NYS DER-10 Appendix B section 2.0 (c) DUSR description. The items listed above that show deficiencies are discussed within the text of this narrative. The laboratory QC forms illustrating the excursions can be found within the laboratory data package.

Those items showing deficiencies are discussed in the following sections of this report. All others were found to be acceptable as outlined in the above-mentioned validation procedures, and as applicable for the methodology. Unless noted specifically in the following text, reported results are substantiated by the raw data, and generated in compliance with project requirements.

In summary, sample results are usable either as reported or with minor qualification or edit. Data completeness, accuracy, precision, reproducibility, sensitivity, and comparability are acceptable.

The client and laboratory sample identifications are attached to this text. The laboratory reported the client identifications with "-50-" rather than "-SO-".

, and should be reviewed in conjunction with this report. Also included in this report are the client EDD files, qualified to reflect the qualifications/edits recommended in this report.

TCL Volatile Analyses by EPA8260C

Due to presence in the associated method blank, the result for methylene chloride in PDI-27-S0-17.5-031219 is considered external contamination and edited to reflect non-detection.

Surrogate and internal standard recoveries are acceptable, and instrument tunes meet fragmentation requirements. Holding times were met.

Matrix spike accuracy and precision evaluations were performed on PDI-35-SO-14-031319, and show outlying recoveries for 1,1,2,2-tetrachloroethane and 1,2-dibromo-3-chloropropane (50% to 76%). The results for those two compounds in that parent sample have been qualified as estimated in value.

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses are within validation guidelines.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Data Qualifier Definitions
Client and Laboratory Identifications
Qualified EQuIS EDD

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample IDs

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150190-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150190-1	PDI-33-SO-13-031319	Solid	03/13/19 08:00	03/14/19 01:00
480-150190-2	PDI-133-SO-13-031319	Solid	03/13/19 08:15	03/14/19 01:00
480-150190-3	PDI-34-SO-15-031319	Solid	03/13/19 09:00	03/14/19 01:00
480-150190-4	PDI-35-SO-14-031319	Solid	03/13/19 09:45	03/14/19 01:00
480-150190-5	PDI-36-SO-13.5-031319	Solid	03/13/19 10:15	03/14/19 01:00

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-150235-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-150235-1	PDI-26-50-17.5-031219	Solid	03/12/19 08:30	03/14/19 10:00
480-150235-2	PDI-29-50-17.5-031219	Solid	03/12/19 09:15	03/14/19 10:00
480-150235-3	PDI-27-50-17.5-031219	Solid	03/12/19 09:45	03/14/19 10:00
480-150235-4	PDI-30-50-17.5-031219	Solid	03/12/19 10:30	03/14/19 10:00
480-150235-5	PDI-31-50-17.5-031219	Solid	03/12/19 11:00	03/14/19 10:00
480-150235-6	PDI-32-50-16-031219	Solid	03/12/19 11:30	03/14/19 10:00
480-150235-7	PDI-28-50-16-031219	Solid	03/12/19 12:15	03/14/19 10:00

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Former Aluminum Louvre

Air Volatile Organic Analyses – TO-15
Samples Collected: November 14, 2017
Samples Received: November 16, 2017
Sample Delivery Group: 200-40996
Laboratory Reference Numbers:

Lab ID	Client Sample
200-40996-1	SVI-161-1-IA-20171114
200-40996-2	SVI-161-1-SS-20171114
200-40996-3	SVI-161-DUP-SS-2-20171114
200-40996-4	SVI-301-1-IA-20171114
200-40996-5	SVI-301-1-SS-20171114
200-40996-6	SVI-301-4-OA-20171114
200-40996-7	SVI-161-3-IA-20171114
200-40996-8	SVI-161-4-IA-20171114
200-40996-9	SVI-301-3-SS-20171114
200-40996-10	SVI-301-2-SS-20171114
200-40996-11	SVI-301-3-IA-20171114
200-40996-12	SVI-301-2-IA-20171114
200-40996-13	SVI-161-3-SS-20171114
200-40996-14	SVI-161-4-SS-20171114

Air samples were validated for analyses of the volatile organic client specific analyte list by the US EPA Region I checklist. A complete analytical validation was performed based upon the following parameters:

* * - Data Completeness
* * - Holding Times
* * - GC/MS Tuning
  - Surrogate Compound Recoveries
* * - Laboratory Control Samples
* * - Calibrations
  - Blank Spike
  - Matrix Duplicate
* * - Field Duplicate
* * - Method Blanks
* * - Internal Standard Recoveries
* * - Compound Identification
* * - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

No problems were detected that would affect the end use of the data.

Holding Times

All samples were analyzed within the required 30 day holding time from sample collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

Surrogate data was not included in the data package.

Surrogates are not required for this method.

Laboratory Control Samples

All recoveries were within the laboratory's quality control limits.

Calibrations

The %RSD was less than or equal to 30% for all of the target compounds in the initial calibration.

All of the percent differences in the continuing calibrations were less than 30%.

All relative response factors were greater than 0.05.

Matrix Duplicate

A matrix duplicate was not analyzed.

Method Blank

No compounds were detected in the method blanks.

Field Duplicates

Samples 200-40996-2 / SVI-161-1-SS-20171114 and 200-40996-3 / SVI-161-DUP-SS-2-20171114 8 were used as the field duplicates

All RPDs that could be accurately calculated were less than 30%.

Internal Standard Areas and Retention Times

No problems were found with the recoveries or retention times in any of the internal standards. All recoveries were within +/- 40% of the calibration standard.

Compound Identification and Quantitation

No problems were found with the reported results of any of the samples of this delivery group.

The laboratory's case narrative states:

> During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-301-4-OA-20171114 (200-40996-6). The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.
>
> During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-301-3-SS-20171114 (200-40996-9). The associated flow controller was evaluated and was found to be outside the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.
>
> During the canister pressure check performed upon receipt, it was observed that the following sample was received at an elevated residual vacuum level: SVI-161-3-SS-20171114 (200-40996-13). The associated flow controller was evaluated upon receipt and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

The problems with the sample pressure did not affect the use of the data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Former Aluminum Louvre

Air Volatile Organic Analyses – TO-15
Samples Collected: November 15, 2017
Samples Received: November 18, 2017
Sample Delivery Group: 200-41045
Laboratory Reference Numbers:

Lab ID	Client Sample
200-41045-1	SVI-161-2-SS-20171115
200-41045-2	SVI-161-2-IA-20171115
200-41045-3	SVI-161-1-OA-20171115

Air samples were validated for analyses of the volatile organic client specific analyte list by the US EPA Region I checklist. A complete analytical validation was performed based upon the following parameters:

- Data Completeness
* - Holding Times
* - GC/MS Tuning
- Surrogate Compound Recoveries
* - Laboratory Control Samples
* - Calibrations
- Blank Spike
- Matrix Duplicate
- Field Duplicate
- Method Blanks
* - Internal Standard Recoveries
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Note: The validation was done on the 2/23/18 revision of the analytical report.

Isopropanol (0.616J ug/m3) and methylene chloride (0.260J ug/m3) were detected in the method blank. The blank concentrations were greater than 5X the sample concentration in all three samples when corrected for dilution factor. The data for these compounds were reported at the reporting limit in the EDD and the “B” qualifier was removed in the data validation column.

No other problems were detected that would affect the end use of the data.

Holding Times

All samples were analyzed within the required 30 day holding time from sample collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

Surrogate data was not included in the data package.

Surrogates are not required for this method.

Laboratory Control Samples

All recoveries were within the laboratory's quality control limits.

Calibrations

The %RSD was less than or equal to 30% for all of the target compounds in the initial calibration.

All of the percent differences in the continuing calibration were less than 30%.

All relative response factors were greater than 0.05.

Matrix Duplicate

A matrix duplicate was not analyzed.

Method Blank

Isopropanol (0.616J ug/m3) and methylene chloride (0.260J ug/m3) were detected in the method blank.

The blank concentrations were greater than 5X the sample concentration in all three samples when corrected for dilution factor.

The data for these compounds were reported at the reporting limit in the EDD and the "B" qualifier was removed in the data validation column.

Field Duplicates

A field duplicate was not analyzed.

Internal Standard Areas and Retention Times

Internal standard data were not included for the initial calibration. This omission did not affect the use of the data.

No problems were found with the recoveries or retention times in any of the internal standards for the samples or continuing calibration standards. All recoveries were within +/- 40% of the calibration standard.

Compound Identification and Quantitation

No problems were found with the reported results of any of the samples of this delivery group.

The laboratory's case narrative states:

> *During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: SVI-161-1-OA-20171115 (200-41045-3). The associated flow controller was evaluated and was found to be within the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.*

The problems with the sample pressure did not affect the use of the data.

DATA USABILITY SUMMARY REPORT
Former Aluminum Louvre

Volatile Organic Analyses by Method SW846 8260B
Samples Collected: October 24, 2017
Samples Received: October 24, 2017
Sample Delivery Group: 460-143705
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #
460-143705-1	PDI-3-GW-80_85-20171024

One water sample was validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
* - Laboratory Blanks
- Trip Blank
- Field Blank
- Equipment Blank
- Field Duplicate
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike
- Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Minor problems with the laboratory control sample and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Initial Calibrations

All of the %RSDs in the soil and water initial calibrations were less than 20% or had a correlation coefficient greater than 0.99.

Continuing Calibrations

All of the %Ds in the one continuing calibration were less than 20% with the following exceptions:

Compound	%D
Chloromethane	22%
Bromomethane	57%

The data for these compounds were flagged with the "J" qualifier and are estimated values. Neither was detected in the sample.

All of the relative response factors were greater than 0.05.

Matrix Spike

A matrix spike was not analyzed.

Field Duplicates

A field duplicate was not analyzed.

Laboratory Control Sample

The laboratory's in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

All of the recoveries in the LCS and LCSD were within the required limits with the exception of bromomethane (45% & 46%). The RPD was 0%.

The bromomethane data were flagged with the "J" qualifier. It was not detected in the sample. Low concentrations may be overlooked.

Method Blank

No compounds were detected in the method blank.

Trip Blank

A trip blank was not analyzed.

Field Blank

A field blank was not analyzed.

Equipment Blank

An equipment blank was not analyzed.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the sample data.

DATA USABILITY SUMMARY REPORT
Former Aluminum Louvre

Volatile Organic Analyses by Method SW846 8260B
Samples Collected: October 25th & 26th, 2017
Samples Received: October 26, 2017
Sample Delivery Group: 460-143763
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #	Matrix	Date Sampled
460-143763-1	PDI-5-SO-67.5-20171025	Solid	10/25/17
460-143763-2	PDI-5-SO-68-20171025	Solid	10/25/17
460-143763-3	PDI-5-SO-73-20171025	Solid	10/25/17
460-143763-4	PDI-5-GW-72-75-20171026	Water	10/26/17
460-143763-5	PDI-5-SO-81-20171026	Solid	10/26/17
460-143763-6	PDI-5-GW-80-85-20171026	Water	10/26/17
460-143763-7	GW-FD-01-20171026	Water	10/26/17
460-143763-8	TRIP BLANK-20171026	Water	10/26/17

Soil and water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* * - Data Completeness
* * - GC/MS Tuning
* * - Holding Times
* - Calibrations
* * - Laboratory Blanks
* - Trip Blank
* - Field Blank
* - Equipment Blank
* * - Field Duplicate
* * - Surrogate Compound Recoveries
* * - Internal Standard Recoveries
* - Matrix Spike
* - Laboratory Control Samples
* * - Compound Identification
* * - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Minor problems with the laboratory control samples, trip blank and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Initial Calibrations

All of the %RSDs in the soil and water initial calibrations were less than 20% or had a correlation coefficient greater than 0.99.

Continuing Calibrations

All of the %Ds in the 11/03 water continuing calibration were less than 20% with the following exception:

Compound	**%D**
Bromomethane	39%

This continuing calibration was associated with the following water samples:

460-143763-4	PDI-5-GW-72-75-20171026
460-143763-8	TRIP BLANK-20171026

All of the %Ds in the 11/04 water continuing calibration were less than 20% with the following exception:

Compound	**%D**
Bromomethane	51%

This continuing calibration was associated with the following water samples:

460-143763-6	PDI-5-GW-80-85-20171026
460-143763-7	GW-FD-01-20171026

All of the %Ds in the 11/04 soil continuing calibration were less than 20% with the following exception:

Compound	**%D**
Chloromethane	23%

This continuing calibration was associated with the following soil samples:

460-143763-1	PDI-5-SO-67.5-20171025
460-143763-2	PDI-5-SO-68-20171025

460-143763-3	PDI-5-SO-73-20171025
460-143763-5	PDI-5-SO-81-20171026

The data for these compounds were flagged with the “J” qualifier and are estimated values. None were detected in any of the samples.

All of the relative response factors were greater than 0.05.

Matrix Spike

A matrix spike was not analyzed.

Field Duplicates

Samples 460-143763-6 / PDI-5-GW-80-85-20171026 and 460-143763-7 / GW-FD-01-20171026 were used as the field duplicates.

All RPDs that could be accurately calculated were less than 30%.

Laboratory Control Sample

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

All of the recoveries in LCS and LCSD 460-474513 were within the required limits with the exception of bromomethane (61% & 68%). All RPDs were less than the 30% quality control limit.

This laboratory control sample was associated with the following water samples:

460-143763-4	PDI-5-GW-72-75-20171026
460-143763-8	TRIP BLANK-20171026

All of the recoveries in LCS and LCSD 460-474601 were within the required limits with the exception of bromomethane (57% & 60%). All RPDs were less than the 30% quality control limit.

This laboratory control sample was associated with the following water samples:

460-143763-6	PDI-5-GW-80-85-20171026
460-143763-7	GW-FD-01-20171026

All of the recoveries in LCS and LCSD 460-474679 were within the required limits All RPDs were less than the 30% quality control limit.

This laboratory control sample was associated with the following soil samples:

460-143763-1	PDI-5-SO-67.5-20171025
460-143763-2	PDI-5-SO-68-20171025
460-143763-3	PDI-5-SO-73-20171025
460-143763-5	PDI-5-SO-81-20171026

The data for bromomethane in the water samples were flagged with the “J” qualifier and are estimated values. Bromomethane was not detected in any of the samples. Low concentrations may be overlooked.

Method Blank

No compounds were detected in any of the three method blanks.

Trip Blank

A low concentration of acetone (2J ug/l) was detected in the trip blank.

This was detected in the following samples:

Sample		Concentration
460-143763-3	PDI-5-SO-73-20171025	3.6 J ug/kg
460-143763-4	PDI-5-GW-72-75-20171026	25 ug/l
460-143763-5	PDI-5-SO-81-20171026	10 ug/kg

The acetone data for sample 460-143763-3 / PDI-5-SO-73-20171025 were reported at the reporting limit and flagged with the “”U” qualifier.

The acetone data in samples 460-143763-4 / PDI-5-GW-72-75-20171026 and 460-143763-4 PDI-5-GW-72-75-20171026 were too high to be affected by the trip blank contamination.

Field Blank

A field blank was not analyzed.

Equipment Blank

An equipment blank was not analyzed.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the sample data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Former Aluminum Louvre

Water Semivolatile Organic Analyses for 1,4-Dioxane – 8270 SIM 14DX
Samples Collected: November 17, 2017
Samples Received: November 17, 2017
Sample Delivery Group: 460-145373
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #	Matrix
460-145373-6	PDI-1-GW-75-20171117	Water
460-145373-6 MS	PDI-1-GW-75-20171117 MS	Water
460-145373-6 MSD	PDI-1-GW-75-20171117 MSD	Water

Water samples were validated for analyses of 1,4-dioxane according to US EPA Region II data validation protocols. Data were reviewed for usability according to the following criteria:

- Data Completeness
* - GC/MS Tuning
* - Holding Times
* - Calibrations
* - Laboratory Blanks
* - Laboratory Control Sample
- Surrogate Compound Recoveries
* - Internal Standard Recoveries
* - Matrix Spike / Matrix Spike Duplicate
- Field Blank
- Field Duplicates
- Equipment Blank
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Surrogate recoveries were not reported. The lab has been contacted about the missing data.

No problems were found that would affect the use of the data.

Holding Times

All of the samples were extracted within 14 days of collection.

All samples were analyzed within 40 days after extraction.

Tunes

No problems were detected with any of the tunes associated with the samples of this delivery group.

Surrogate Recoveries

Surrogate recoveries were not reported. The lab has been contacted about the missing data.

Matrix Spike / Matrix Spike Duplicate

Water sample 460-145373-6 / PDI-1-GW-75-20171117 was used as the matrix spike and matrix spike duplicate.

All recoveries (47% & 67%) were within the laboratory's 10%-137% quality control limits.

The RPD (7%) was less than the 30% quality control limit.

Laboratory Control Sample

The 1,4-dioxane recovery in the LCS standard (51%) was within the laboratory's 10% - 130% quality control limits.

Initial Calibration

The %RSDs of the initial calibration were less than 20%.

Continuing Calibrations

The percent difference of 1,4-dioxane (4%) in the continuing calibration was less than the 20% quality control limit.

Field Duplicates

Field duplicates were not analyzed.

Method Blank

1,4-Dioxane was not detected in the method blank.

Equipment Blank

An equipment blank was not collected.

Field Blank

A field blank was not analyzed with this sample delivery group.

Internal Standard Areas and Retention Times

All internal standard recoveries and retention times were within the required limits.

Sample Results

No problems were found with the results of any of the samples of this delivery group.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Former Aluminum Louvre

Total Organic Carbon Analysis
Samples Collected: November 17, 2017
Samples Received: November 17, 2017
Sample Delivery Group: 460-145373
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #	Matrix
460-145373-1	PDI-1-SO-20-20171117	Solid
460-145373-1 MS	PDI-1-SO-20-20171117 MS	Solid
460-145373-1 MSD	PDI-1-SO-20-20171117 MSD	Solid
460-145373-2	PDI-1-SO-24-20171117	Solid

Soil samples were validated for total organic carbon analyses by the US EPA Region II data validation protocols. Data were reviewed for usability according to the following criteria:

* * - Holding Times
* * - Calibration Verification
  - CRDL Standards
* * - Laboratory Control Sample
* * - Calibration Blanks
  - Field Blank
  - Field Duplicate
* * - Preparation Blanks
* * - Matrix Spike
  - Duplicate Analyses
* * - Detection Limit Results
* * - Linear Range
* * - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

No problems were detected that would affect the use of the data.

Holding Times

All samples were analyzed within the required holding time.

CRDL Standards

CRDL standards were not analyzed.

Initial and Continuing Calibrations

No problems were found with any of the calibrations.

Preparation Blank

Total organic carbon was not detected in the preparation blank.

Calibration Blanks

Total organic carbon was not detected in the calibration blanks.

Equipment Blank

An equipment blank was not analyzed.

Matrix Spike Recovery

Sample 460-145373-1 / PDI-1-SO-20-20171117 was analyzed as the matrix spike and matrix spike duplicate.

All recoveries (99% & 108%) and RPD (1%) were within the laboratory's quality control limits.

Duplicate Analysis

A matrix duplicate was not analyzed.

Field Duplicates

A field duplicate was not collected.

Laboratory Control Sample

No problems were detected with the recovery of the LCS standard (96%).

Instrument Detection Limit

No problems were found with the instrument detection limits.

Sample Results

No problems were detected with any of the data.

DATA USABILITY SUMMARY REPORT
Former Aluminum Louvre

Soil and Water Volatile Organic Analyses by Method SW846 8260B
Samples Collected: November 17, 2017
Samples Received: November 17, 2017
Sample Delivery Group: 460-145373
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #	Matrix
460-145373-3	PDI-1-SO-81.5-20171117	Solid
460-145373-4	PDI-1-SO-82.5-20171117	Solid
460-145373-5	PDI-1-SO-83.5-20171117	Solid
460-145373-6	PDI-1-GW-75-20171117	Water
460-145373-6 MS	PDI-1-GW-75-20171117 MS	Water
460-145373-6 MSD	PDI-1-GW-75-20171117 MSD	Water
460-145373-7	TRIP BLANK - 20171117	Water

Soil and water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
- Laboratory Blanks
- Trip Blank
- Field Blank
- Equipment Blank
- Field Duplicate
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike
* - Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Minor problems with the matrix spike, method blank, trip blank and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Initial Calibrations

All of the %RSDs in the soil and water initial calibrations were less than 20% or had a correlation coefficient greater than 0.99.

Continuing Calibrations

All of the %Ds in the 11/28 water continuing calibration were less than 20% with the following exception:

Compound	**%D**
Bromomethane	41%

The water bromomethane data were flagged with the "J" qualifier and are estimated values.

All of the %Ds in the 11/27 soil continuing calibration were less than 20%.

All of the relative response factors were greater than 0.05.

Matrix Spike

The laboratory's in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits. A relative percent difference of 30% was used in the data validation.

Sample 460-145373-6 / PDI-1-GW-75-20171117 was analyzed as the water matrix spike and matrix spike duplicate.

All recoveries and RPDs were within the required limits with the following exception:

Compound	**MS % Rec.**	**MSD % Rec.**
Bromomethane	55%	65%

The bromomethane water data were flagged with the "J" qualifier. This compound was not detected in any of the samples.

All RPDs were less than 30%.

Field Duplicates

A field duplicate was not analyzed.

Laboratory Control Sample

The laboratory's in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

LCS / LCSD 460-480020/3 was associated with the analyses of the three soil samples:

460-145373-3	PDI-1-SO-81.5-20171117
460-145373-4	PDI-1-SO-82.5-20171117
460-145373-5	PDI-1-SO-83.5-20171117

All of the recoveries in the LCS and LCSD were within the required limits. All RPDs were less than 30%.

The recovery of chloroethane in the LCS associated with the analyses of the water samples was 139%.

Chloroethane was not detected in any of the water samples and the high recovery does not affect the use of the data.

Method Blanks

Acetone was detected in the soil method blank at a concentration of 3.8 J ug/l.

This was detected in two of the soil samples:

460-145373-3	PDI-1-SO-81.5-20171117	3.6J ug/l
460-145373-4	PDI-1-SO-82.5-20171117	9.1 ug/l

The acetone data for these samples were flagged with the "U" qualifier and reported at the reporting detection limit.

No compounds were detected in the water method blank.

Trip Blank

Acetone was detected in the trip blank at a concentration of 14 ug/l.

The soil data for the two samples noted above were qualified for the method blank in the same manner as in the trip blank.

Field Blank

A field blank was not analyzed.

Equipment Blank

An equipment blank was not analyzed.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the sample data.

DATA USABILITY SUMMARY REPORT
Former Aluminum Louvre

Soil and Water Volatile Organic Analyses by Method SW846 8260B
Samples Collected: November 16, 2017
Samples Received: November 17, 2017
Sample Delivery Group: 460-145387
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #	Matrix
460-145387-1	PDI-2-GW-72-75-201711	Water
460-145387-2	Trip Blank-20171116	Water
460-145387-3	PDI-2-SO-75.5-20171116	Solid
460-145387-4	PDI-2-SO-76.5-20171116	Solid
460-145387-5	PDI-2-SO-77.5-20171116	Solid
460-145387-5MS	PDI-2-SO-77.5-20171116 MS	Solid
460-145387-5MSD	PDI-2-SO-77.5-20171116 MSD	Solid
460-145387-6	FD-01-SO-20171116	Solid

Soil and water samples were validated for analyses of volatile organics by the US EPA Region II data validation SOP (HW-24, Revision 2, 2008). Data were reviewed for usability according to the following criteria:

* - Data Completeness
* - GC/MS Tuning
* - Holding Times
- Calibrations
* - Laboratory Blanks
* - Trip Blank
- Field Blank
- Equipment Blank
- Field Duplicate
* - Surrogate Compound Recoveries
* - Internal Standard Recoveries
- Matrix Spike
- Laboratory Control Samples
* - Compound Identification
* - Compound Quantitation

* - Indicates that all criteria were met for this parameter.

DATA VALIDATION SUMMARY

Trichloroethene was not recovered from the matrix spike or matrix spike duplicate. Low concentrations of 10 ug/kg – 29 ug/kg were detected in all of the samples. The data may be seriously underestimated.

The field duplicate RPDs of acetone (200%) and trichloroethylene (97%) were both greater than the 30% quality control limit. The data for these compounds in these two samples were flagged with the “J” qualifier and are estimated values.

Other minor problems with the laboratory control samples, matrix spike and calibrations should be noted. These are discussed in detail below.

Holding Times

All of the samples were analyzed within 14 days of collection.

Tunes

No problems were detected with the tunes associated with the samples of this delivery group.

Surrogate Compound Recoveries

All surrogate compound recoveries were within the quality assurance limits.

Initial Calibrations

All of the %RSDs in the soil and water initial calibrations were less than 20% or had a correlation coefficient greater than 0.99.

Continuing Calibrations

All of the %Ds in the 11/27 water continuing calibration were less than 20% with the following exceptions.

Compound	%D
Bromomethane	46%
Chloroethane	25%

All of the %Ds in the 11/27 soil continuing calibration were less than 20% with the exception of bromoform (25%).

The data for these compounds were flagged with the “J” qualifier and are estimated values.

All of the relative response factors were greater than 0.05.

Matrix Spike

The laboratory’s in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits. A relative percent difference of 30% was used in the data validation.

Sample 460-145387-5 / PDI-2-SO-77.5-20171116 was analyzed as the soil matrix spike and matrix spike duplicate.

All recoveries and RPDs were within the required limits with the following exceptions:

Compound	MS % Rec.	MSD % Rec.
Trichloroethene	0%	0%
1,2,4-Trichlorobenzene	67%	

Trichloroethene was not recovered in the matrix spike or matrix spike duplicate. Low concentrations of 10 ug/kg – 29 ug/kg were detected in all of the samples.

The trichloroethene data were flagged with the "J" qualifier and may be seriously underestimated.

The 1,2,4-trichlorobenzene data were flagged with the "J" qualifier. This compound was not detected in any of the samples.

Field Duplicates

Samples 460-145387-5 / PDI-2-SO-77.5-20171116 and 460-145387-6 / FD-01-SO-20171116 8 were used as the field duplicates.

All RPDs that could be accurately calculated were less than 30% with the following exceptions:

Compound	Sample	Duplicate	RPD
Acetone	U	7.5	200%
Trichloroethylene	29	10	97%

The data for these two compounds were flagged with the "J" qualifier in both samples and are estimated values.

Laboratory Control Sample

The laboratory's in-house QC limits noted on their summary forms were often wider than the 70% - 130% Region 2 limits. The data were validated on the basis of the Region 2 limits.

LCS 460-480036/3 was associated with the analyses of the two water samples:

460-145387-1	PDI-2-GW-72-75-201711
460-145387-2	Trip Blank-20171116

All recoveries were within the required limits with the following exceptions:

Compound	LCS % Rec.
Bromomethane	63%
Dichlorodifluoromethane	60%

The data for these compounds were flagged with the "J" qualifier and are estimated values.

All of the recoveries and RPDs were within the required limits for the soil samples.

Method Blanks

No compounds were detected in the soil or water method blanks.

Trip Blank

No target compounds were detected in the trip blank.

Field Blank

A field blank was not analyzed.

Equipment Blank

An equipment blank was not analyzed.

Internal Standard Areas and Retention Times

The areas and retention times of all internal standards were within the required quality control limits.

Sample Results

No problems were detected with any of the sample data.

SUMMARY OF THE ANALYTICAL DATA VALIDATION
Former Aluminum Louvre

Soil Total Organic Carbon Analyses
Samples Collected: November 17, 2017
Samples Received: November 17, 2017
Sample Delivery Group: 460-145387
Laboratory – Test America

Laboratory Reference Numbers:

Lab ID	Client Sample #
460-145387-7	PDI-1-SO-8-20171117
460-145387-8	PDI-1-SO-12-20171117
460-145387-9	PDI-SO-DUP-20171117
460-145387-10	PDI-1-SO-16-20171117

Soil samples were validated for total organic analyses by the US EPA Region II inorganic data validation guidelines. Data were reviewed for usability according to the following criteria:

- Holding Times
* - Calibration Verification
* - Laboratory Control Sample
- Field Blank
- Field Duplicate
* - Preparation Blanks
- Matrix Spike
- Duplicate Analyses
* - Detection Limit Results
* - Linear Range
* - Sample Results

* - Indicates that all criteria were met for this parameter.

Data Validation Summary

The problems with the holding times and field duplicates should be noted.

These are described in detail below.

Holding Times

The laboratory's case narrative notes:

> *The following samples were analyzed outside of analytical holding time due to instrumentation problems, and capacity issues. The samples were received 9 days prior to holding time expiring, but they were analyzed on 12/5/17 (4 days after HT expired) within 2x the normal holding time: PDI-1-SO-8-20171117 (460-145387-7), PDI-1-SO-12-20171117 (460-145387-8), PDI-SO-DUP-20171117 (460-145387-9) and PDI-1-SO-16-20171117 (460-145387-10).*

All of the TOC data were flagged with the "J" qualifier and are estimated values.

Initial and Continuing Calibrations

No problems were found with the initial or continuing calibrations.

Method Blank

No compounds were detected in the method blank.

Equipment Blank

An equipment blank was not analyzed.

Matrix Spike Recovery

A matrix spike was not analyzed.

Matrix Duplicate Analysis

A matrix duplicate was not analyzed.

Field Duplicates

Samples 460-145387-8 / PDI-1-SO-12-20171117 and 460-145387-9 / PDI-SO-DUP-20171117 were used as the field duplicates.

The RPD of 58% was above the 30% quality control limit. The data for the two compounds were flagged with the "J" qualifier and are estimated values.

Laboratory Control Sample

No problems were detected with the recoveries of the LCS standard (94%).

Instrument Detection Limit

No problems were found with the instrument detection limits.

Sample Results

No problems were found with the sample data.

Data Validation Services

120 Cobble Creek Road P.O. Box 208
North Creek, NY 12853

Phone 518-251-4429
harry@frontiernet.net

September 21, 2018

Amy Picunas
CDM Smith
11 British American Boulevard Suite 200
Latham, NY 12110

RE: Validation of the NYSDEC Former Aluminum Louvre Site Remedial Design Analytical Data
Project No. D007621-21; Site Number 130195
TAL-Buffalo SDG Nos. 480-137530-1, 480-137801-1, 460-139579-1, 460-139579-2, 460-158997-1, 460-159001-1, 460-159134-1, 460-159208-1, 460-159285-1, 460-159314-1, 460-159396-1, 460-159405-1, and 460-159550-1

Dear Ms. Picunas:

Review has been completed for the data packages generated by TestAmerica Laboratories that pertain to aqueous samples collected between 06/13/18 and 06/29/18 at the Former Aluminum Louvre site. Twenty seven soil and aqueous samples and four field duplicates were processed for TCL volatiles; three of these samples and three other samples were also processed for ferrous iron. Three soil and aqueous samples, and an aqueous field duplicate were analyzed for TCL volatiles, seventeen per-and polyfluoroalkyl substances (PFAS), and 1,4-dioxane. Field and trip blanks were also processed. Analytical methods are those of the USEPA SW846 6000/7000/8000 series and a modified USEPA method 537.

The data packages submitted by the laboratory contain full deliverables for validation, and this usability report is generated from review of the QC summary form information, with full review of sample raw data and limited review of associated QC raw data. The reported QC summary forms and sample raw data have been reviewed for application of validation qualifiers, with guidance from the USEPA national and regional validation documents, and in consideration for the specific requirements of the analytical methodology.

The following items were reviewed:

* Data Completeness
* Case Narrative
* Custody Documentation/Sample Receipt
* Holding Times
* Surrogate and Internal Standard Recoveries
* Isotopic Standards
* Method, Preparation, and Field Blanks
* Matrix Spike Recoveries/Duplicate Correlations
* Blind Field Duplicate Correlations
* Laboratory Control Sample (LCS)

* ICP Serial Dilution Correlations
* Instrumental Tunes
* Initial and Continuing Calibration Standards
* Method Compliance
* Sample Result Verification

Those items listed above which show deficiencies are discussed within the text of this narrative. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B section 2.0 (c). Documentation of the outlying parameters cited in this report can be found in the laboratory data package.

In summary, results for target analytes are usable either as reported or with minor qualification/ edit, with the following exception:

- Ferrous iron analysis was processed well beyond the allowable holding time, and therefore undetected results are rejected and detected results are heavily biased low

Accuracy, precision, data completeness, sensitivity, comparability, and representativeness are acceptable.

Client sample identifications are attached to this text, and should be reviewed in conjunction with this report. Also included in this report is the laboratory EQuIS EDDs with recommended qualifiers/edits applied in red.

Chain-of-Custody/Sample Receipt

The interim relinquish entries were omitted from the custody forms associated with samples reported in SDG 480-137801.

Blind Field Duplicate Correlations

The blind field duplicate evaluation was performed on MW-1161-4-20180724, PDI-106-SO-16-06132018, PDI-113-SO-53-06212018, PDI-123-SO-18-20180725, and PDI-111-WG-75-06182018 show acceptable correlations, with the exception of that for trichloroethene in PDI-111-WG-75-06182018. The concentration of that compound in the parent sample was 170 ug/kg, and the concentration in the field duplicate was 1.3 ug/kg. The results for that compound have been qualified as estimated in that parent sample and its duplicate.

Volatile Analyses by EPA8260C

Results for volatiles in four of the samples processed at the low level are qualified as estimated due to the timeframe in transit and subsequent outlying holding time until the samples could be frozen. The affected samples are: PDI-6-SO-14-06132018, PDI-6-SO-16-06132018, PDI-8-SO-17-06132018, and PDI-10-SO-S7-06132018.

The results for dibromochloromethane and bromoform in PDI-111-WG-75-06182018 and 1,1,1-trichloroethane in PDI-18-SO-21-06282018 have been edited to reflect non-detection due to poor mass spectral quality.

Holding times were met, surrogate and internal standard recoveries are acceptable, and instrument tunes meet fragmentation requirements.

Most detections of acetone, methylene chloride, and 2-butanone in the project samples are considered external contamination and edited to non-detection due to presence in the associated blanks.

The matrix spike recoveries and duplicate correlations were performed on PDI-7-SO-17-06132018, PDI-25-SO-14-20180725, MW-161-3-20180725, PDI-12-WG-75-06202018, and PDI-18-SO-21-06282018. Those for PDI-25-SO-14-20180725 show outlying recoveries for almost every analyte. The results for that parent sample have therefore been qualified as estimated. Recoveries and correlations of the other matrix spikes fall within validation guidelines, with the following exceptions, results for which have been qualified in the indicated parent samples:

Parent Sample	Analyte	Outlying % Recoveries
PDI-25-SO-14-20180725	1,1,1-trichloroethane	69,69
	1,1,2,2-tetrachloroethane	72,78
	1,2-dibromo-3-chloropropane	49,55
	1,2-dichloroethane	72,73
	2-butanone	57,64
	acetone	42,44
	carbon tetrachloride	71,71
	chloroform	78,78
	dichlorodifluoromethane	55,53
	1,2-dibromomethane	74,77
PDI-7-SO-17-06132018	ethylbenzene	145,146
	1,2-dichlorobenzene	158,159
MW-161-3-20180725	trichloroethane	60,40
PDI-12-WG-75-06202018	cis-1,2-dichloroethene	78,79

The following results are qualified as estimated due to low recoveries the associated LCSs:

Affected Samples	Analyte	Outlying % Recoveries
All samples and blanks reported in SDG 460-159208-1	1,2-dibromo-3-chloropropane	49,54
	bromoform	47,52
	dibromochloromethane	67,72
All samples and blanks reported in SDG 460-159396-1	2-hexanone	68,69

Initial and continuing calibration standard (ICV and CCV) linearity and calibration verification responses are within validation guidelines, with the exception of the following, results for which are qualified as estimated in the indicated associated samples:

- bromomethane (22%D to 26%D) in samples PDI-10-SO-S7-06182018, MW-1161-4-20180724, TB-20180724, FB-20180724, FB-20180725, MW-161-3-20180725, TB-20180725, MW-161-4-20180724, PDI-TB-06202018, PDI-FB-06202018, PDI-12-WG-75-06202018, PDI-FB-06212018, PDI-13-WG-75-06212018, and in all samples and blanks reported with SDG 460-159396

- 1,1-dichloroethane (22%D) in samples PD1-23-SO-18-20180725, PDI-123-SO-18-20180725, and PDI-24-SO-18-20180725
- 1,2-dibromomethane (22%D) in samples PDI-TB-06222018 and PDI-FB-06222018
- bromoform (26%D) in sample PDI-14-SO-55-06222018
- bromoform, 1,1,2,2-tetrachloroethane, and 1,2-dibromo-3-chloropropane (22%D to 54%D) in all samples an blanks reported with SDG J159208-1

1,4-Dioxane by EPA 8270D SIM

Surrogate and internal standard recoveries are within laboratory acceptance ranges. Holding times were met.

Matrix spikes of MW-161-3-20180725 show recoveries and correlations within laboratory acceptance ranges.

Calibration standards show acceptable responses that are within validation guidelines.

Ferrous Iron by ASTM Method 3500

Undetected results for ferrous iron are rejected, and detected results are qualified as estimated, with a possibly severe low bias, due to a very extended holding time (at 10 and 12 days from collection, well beyond the 15 minute method holding time). The detected results are of questionable usability. The samples should have been processed immediately upon laboratory receipt.

The matrix spike/duplicate evaluation of PDEI-18-SO-21-06282018 shows recoveries and correlations within validation guidelines.

PFAS by Modified EPA Method 537

PFAS compounds are identified by their common acronyms in this report. The report forms reference both the technical names and the acronyms.

Due to presence in the associated blanks, the following detections are considered external contamination and edited to reflect non-detection:

- PFHxS in PDI-MW-161-1-I-06262018 and in the samples reported in SDG 480-139579-2
- PFNA and PFHxS in MW-161-4-20180724 and MW-1161-4-20180724

Matrix spikes of MW-161-3-20180725 show recoveries and correlations within laboratory ranges/limits.

One of the samples was received with melted ice and at elevated temperature. Due to the persistence and the tolerance of heat of these analytes, no qualification is made to the affected results.

Holding times were met, and isotopic/internal standard recoveries are within laboratory acceptance limits, with the exception of one isotopic surrogate standard. The result for the associated is not affected, as the instrument response of the surrogate standard was acceptable.

Please do not hesitate to contact me if questions or comments arise during your review of this report.

Very truly yours,

Judy Harry

Att: Validation Qualifier Definitions
Client and Laboratory Sample Identifications
Qualified Laboratory EQuIS EDDs

VALIDATION DATA QUALIFIER DEFINITIONS

U	The analyte was analyzed for, but was not detected above the level of the associated reported quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample.
J-	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased low.
J+	The analyte was positively identified; the associated numerical value is an estimated quantity that may be biased high.
UJ	The analyte was analyzed for, but was not detected. The associated reported quantitation limit is approximate and may be inaccurate or imprecise.
NJ	The detection is tentative in identification and estimated in value. Although there is presumptive evidence of the analyte, the result should be used with caution as a potential false positive and/or elevated quantitative value.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control limits. The analyte may or may not be present.
EMPC	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample.

Client and Laboratory Sample Identifications

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137530-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137530-1	PDI-6-SO-14-06132018	Solid	06/13/18 09:00	06/15/18 10:45
480-137530-2	PDI-6-SO-16-06132018	Solid	06/13/18 09:05	06/15/18 10:45
480-137530-3	PDI-106-SO-16-06132018	Solid	06/13/18 09:10	06/15/18 10:45
480-137530-4	PDI-7-SO-17-06132018	Solid	06/13/18 09:40	06/15/18 10:45
480-137530-5	PDI-8-SO-17-061318	Solid	06/13/18 10:30	06/15/18 10:45
480-137530-6	PDI-9-SO-17-061318	Solid	06/13/18 11:40	06/15/18 10:45

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-137801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-137801-1	PDI-10-SO-S7-06182018	Solid	06/18/18 14:50	06/21/18 10:40
480-137801-2	FB-06192018	Water	06/19/18 10:10	06/21/18 10:40
480-137801-3	PDI-11-WG-75-06182018	Water	06/19/18 12:55	06/21/18 10:40
480-137801-4	PDI-111-WG-75-06182018	Water	06/19/18 13:00	06/21/18 10:40
480-137801-5	PDI-TB-06192018	Water	06/19/18 00:00	06/21/18 10:40
480-137801-6	PDI-10-WG-74-06182018	Water	06/18/18 15:30	06/21/18 10:40

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 480-139579-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-139579-1	MW-161-4-20180724	Water	07/24/18 10:10	07/26/18 09:50
480-139579-2	MW-1161-4-20180724	Water	07/24/18 10:15	07/26/18 09:50
480-139579-3	TB-20180724	Water	07/24/18 08:00	07/26/18 09:50
480-139579-4	FB-20180724	Water	07/24/18 11:45	07/26/18 09:50
480-139579-5	PD1-23-SO-18-20180725	Solid	07/25/18 08:30	07/26/18 09:50
480-139579-6	PDI-123-SO-18-20180725	Solid	07/25/18 08:40	07/26/18 09:50
480-139579-7	PDI-24-SO-18-20180725	Solid	07/25/18 08:50	07/26/18 09:50
480-139579-8	PDI-25-SO-14-20180725	Solid	07/25/18 09:30	07/26/18 09:50
480-139579-9	FB-20180725	Water	07/25/18 09:00	07/26/18 09:50
480-139579-10	MW-161-3-20180725	Water	07/25/18 12:25	07/26/18 09:50
480-139579-11	TB-20180725	Water	07/25/18 08:00	07/26/18 09:50

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-158997-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-158997-1	PDI-TB-06222018	Water	06/22/18 00:00	06/22/18 19:00
460-158997-2	PDI-FB-06222018	Water	06/22/18 09:00	06/22/18 19:00
460-158997-3	PDI-14-WG-75-06222018	Water	06/22/18 11:15	06/22/18 19:00
460-158997-4	PDI-14-SO-55-06222018	Solid	06/22/18 10:55	06/22/18 19:00

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159001-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159001-1	PDI-TB-06202018	Water	06/20/18 00:00	06/21/18 20:00
460-159001-2	PDI-FB-06202018	Water	06/20/18 14:00	06/21/18 20:00
460-159001-3	PDI-12-WG-75-06202018	Water	06/20/18 14:30	06/21/18 20:00
460-159001-4	PDI-FB-06212018	Water	06/21/18 12:35	06/21/18 20:00
460-159001-5	PDI-13-WG-75-06212018	Water	06/21/18 13:15	06/21/18 20:00
460-159001-6	PDI-13-SO-53-06212018	Solid	06/21/18 12:20	06/21/18 20:00
460-159001-7	PDI-113-SO-53-06212018	Solid	06/21/18 12:30	06/21/18 20:00

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159134-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159134-1	PDI-15-SO-52-06252018	Solid	06/25/18 10:20	06/25/18 19:20

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159208-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159208-1	PDI-TB-06252018	Water	06/25/18 00:00	06/25/18 19:20
460-159208-2	PDI-FB-06252018	Water	06/25/18 08:30	06/25/18 19:20
460-159208-3	PDI-IS-WG-75-06252018	Water	06/25/18 11:25	06/25/18 19:20

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159285-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159285-1	PDI-16-SO-55-06262018	Solid	06/26/18 10:05	06/26/18 19:00

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159314-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159314-1	PDI-TB-06262018	Water	06/26/18 00:00	06/26/18 19:00
460-159314-2	PDI-FB-06262018	Water	06/26/18 08:30	06/26/18 19:00
460-159314-3	PDI-16-WG-75-06262018	Water	06/26/18 10:30	06/26/18 19:00
460-159314-4	PDI-MW-161-1-I-06262018	Water	06/26/18 11:10	06/26/18 19:00

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159396-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159396-1	PDI-TB-06272018	Water	06/27/18 00:00	06/27/18 19:40
460-159396-2	PDI-FB-06272018	Water	06/27/18 09:20	06/27/18 19:40
460-159396-3	PDI-17-WG-75-06272018	Water	06/27/18 13:20	06/27/18 19:40

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159405-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159405-1	PDI-17-SO-60-06272018	Solid	06/27/18 12:15	06/27/18 19:40
460-159405-2	PDI-17-SO-62-06272018	Solid	06/27/18 12:15	06/27/18 19:40

Sample Summary

Client: CDM Smith, Inc.
Project/Site: Former Aluminum Louvre

TestAmerica Job ID: 460-159550-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-159550-1	PDI-TB-06282018	Water	06/28/18 00:00	06/29/18 19:00
460-159550-2	PDI-19-WG-85-06282018	Water	06/28/18 14:45	06/29/18 19:00
460-159550-3	PDI-FB-06292018	Water	06/29/18 09:15	06/29/18 19:00
460-159550-4	PDI-20-WG-85-06292018	Water	06/29/18 12:00	06/29/18 19:00
460-159550-5	PDI-18-SO-21-06282018	Solid	06/28/18 09:35	06/29/18 19:00
460-159550-6	PDI-19-SO-79-06282018	Solid	06/28/18 01:30	06/29/18 19:00
460-159550-7	PDI-19-SO-80-06292018	Solid	06/28/18 14:35	06/29/18 19:00
460-159550-8	PDI-20-SO-73-06292018	Solid	06/29/18 11:50	06/29/18 19:00
460-159550-9	PDI-20-SO-74-06292018	Solid	06/29/18 11:55	06/29/18 19:00

Appendix J

Site-Specific Protection of Groundwater Calculations

A Calculation Form (Word Format)

Directions: Complete one form for each calculation brief

Client: NYSDEC	**Job No.** 0897.215958	**Calculations By:** A. Harrold
Project: Former Aluminum Louvre	**Checked By/Date** C. Gurr	**Date:** 17 June 2019
Detail: Site-Specific Protection of Groundwater	**Reviewed By/Date** 20 Jun 2019	**Calc #:** 001
		Revision No./Date: 0

Calculation Brief Title: Site-Specific Protection of Groundwater Calculations

1.0 Purpose/Objective: Provide brief statement of results to be expected from this calculation.

The purpose of these calculations is to use site-specific data to determine the recommended protection of groundwater soil cleanup goals.

2.0 Procedure: Outline the steps followed and approach.

Fraction of organic carbon analyses were performed on soil samples from soil boring PDI-1 near the source zone. The groundwater cleanup goal was provided by NYSDEC and organic carbon partitioning coefficients and dilution attenuation factor are standard values from USEPA Soil Screening Guidance. The Site-specific protection of groundwater soil cleanup goals are calculated from the Site-specific and standard values for each contaminant of concern.

3.0 References/Data Sources:

A. List out information used and its source(s). Attach copies of information used for the calculation including source for all calculation formulas.

1. U.S. Environmental Protection Agency (USEPA), 1996. Soil Screening Guidance: Technical Background Document. Washington, DC. May 1996.

B. Show full version of key equations here with references.

Equation for calculating allowable soil concentration (USEPA, 1996)

$$C_s = f_{oc} * K_{oc} * C_w$$

Where: C_s = allowable soil concentration f_{oc} = fraction of organic carbon of the natural soil media
K_{oc} = partition coefficient between soil and water media C_w = groundwater cleanup goal

Equation for calculating protection of groundwater soil cleanup goals (USEPA, 1996)

$$\text{protection of groundwater soil cleanup goal} = C_s * DAF$$

Where: C_s = allowable soil concentration DAF = dilution attenuation factor

4.0 Assumptions and Limitations:

A. List assumptions and basis.

The f_{oc} value was measured from Clay 1 during the PDI. The DAF assumes the dilution and attenuation mechanisms of volatilization, sorption and desorption, leaching, diffusion and mixing will act upon the contaminant between Clay 1 and the water table. The geometric mean of measured K_{oc} values is assumed to be a more suitable estimate due to a wide variability within the distribution of values (USEPA, 1996).

B. Identify limitations of calculations and results.

Only one boring near the source zone was analyzed for f_{oc}.

5.0 Calculations: Attach calculation to this form. Create clear and descriptive process that is easily followed. Show actual equations in normal format. Use sketches and graphs liberally. Box significant results and annotate liberally. Use units, where appropriate.

A Calculation Form (Word Format)

Site-specific and standard values for each contaminant of concern are shown in the table below. An example calculation for trichloroethene is shown on the following page. The same calculation procedure is followed for all six contaminants of concern.

Contaminant of Concern	Organic Carbon Partition Coefficient (K_{oc}) (l/kg)	Fraction Organic Carbon (f_{oc}) (g/g)	Dilution/Attenuation Factor	Groundwater cleanup goal (µg/l)
Trichloroethene	94	0.0066	20	400
Tetrachloroethene	265	0.0066	20	400
cis-1,2-Dichloroethene	36	0.0066	20	400
1,1,1-Trichloroethane	135	0.0066	20	400
Toluene	140	0.0066	20	400
Xylenes, Total	245	0.0066	20	400

A Calculation Form (Word Format)

CDM Smith

CLIENT N4SDEC | JOB NO. 0897.215958 | COMPUTED BY A. HARROLD
PROJECT FORMER ALUMINUM LOUVRE | DATE CHECKED | DATE 6/17/2019
DETAIL SITE-SPECIFIC PROTECTION OF GW | CHECKED BY | PAGE NO. 1 OF 2

1] CALCULATE ALLOWABLE SOIL CONCENTRATION - TRICHLOROETHENE (TCE)

$$C_S = f_{OC} \times K_{OC} \times C_W$$

WHERE:
C_S = ALLOWABLE SOIL CONCENTRATION
f_{OC} = FRACTION OF ORGANIC CARBON OF THE NATURAL SOIL MEDIA
K_{OC} = PARTITION COEFFICIENT BETWEEN SOIL AND WATER MEDIA
C_W = GROUNDWATER CLEANUP GOAL

GIVEN:
f_{OC} = 0.00661 g/g (MEASURED 1/17/2017)
K_{OC} = 94 L/kg (USEPA, 1996) GEOMETRIC MEAN, COMPOUND-SPECIFIC
C_W = 400 µg/L (N4SDEC - PROVIDED VALUE)

$C_S = f_{OC} \times K_{OC} \times C_W$
$= (0.00661 g/g)(94 L/kg)(400 µg/L)$
$= 248$ µg/kg TCE

COMPOUND/CONTAMINANT	C_S (µg/kg)
TCE	248
TETRACHLOROETHENE	701
cis-1,2-DICHLOROETHENE	94
1,1,1-TRICHLOROETHANE	357
TOLUENE	370
XYLENES, TOTAL	648

2] CALCULATE PROTECTION OF GROUNDWATER SOIL CLEANUP GOAL - TCE

PROTECTION OF GROUNDWATER SOIL CLEANUP GOAL $= C_S \times DAF$

WHERE:
C_S = ALLOWABLE SOIL CONCENTRATION
DAF = DILUTION ATTENUATION FACTOR

GIVEN:
DAF = 20 (USEPA, 1996)

PROTECTION OF GROUNDWATER SOIL CLEANUP GOAL $= C_S \times DAF$
$= (248$ µg/kg$)(20)$
$= 4,970$ µg/kg

A Calculation Form (Word Format)

CDM Smith

CLIENT NYSDEC
PROJECT FORMER ALUMINUM LOUVRE
DETAIL SITE-SPECIFIC PROTECTION OF GW

JOB NO. 0897.215958
DATE CHECKED
CHECKED BY

COMPUTED BY A. HARROLD
DATE 6/17/2019
PAGE NO. 2 OF 2

COMPOUND / CONTAMINANT	PROTECTION OF GROUNDWATER SOIL CLEANUP GOAL (ug/kg)
TCE	4,970
TETRACHLOROETHENE	14,010
CIS-1,2-DICHLOROETHENE	1,880
1,1,1-TRICHLOROETHANE	7,140
TOLUENE	7,400
XYLENES, TOTAL	12,960

The site-specific impact to groundwater soil cleanup goals for the six contaminants of concern were calculated to be:

A Calculation Form (Word Format)

Contaminant of Concern	Site-Specific Protection of Groundwater (µg/kg)
Trichloroethene	4,970
Tetrachloroethene	14,010
cis-1,2-Dichloroethene	1,880
1,1,1-Trichloroethane	7,140
Toluene	7,400
Xylenes, Total	12,960

B. Restate limitations.

The Site-specific protection of groundwater soil cleanup goals were calculated using the fraction of organic carbon from one soil sample from Clay 1. Standard values provided by the NYSDEC and EPA Soil Screening Guidance were utilized in the calculations.

Appendix K

Historical Building Records - Town of Oyster Bay

EXIST. 4" CHECK VALVE
EXIST 36" A.B.D

EXIST. WET PIPE VLV.

EXIST. 6"

TIE INTO EXIST. 6" MAIN

EXIST. 4"
WELL 4"

4" ℄ EL ± 16'-7½"

EXISTING SPKD BLDG
(100% SPRINKLERED)
(615 SPRS AT CLG.)

EXIST. 16" CITY MAIN
(80 LBS PRESSURE STATIC - 45 LBS @ 5116 GPM FLOW)

EXIST. 16" SPK. MAIN
WITH THRUST BLOCKING
(2000 LBS @ 150 LBS PSI)

EXIST. 16" GATE VALVE

EXIST. WATER MOTOR GONG

WINDING ROAD

52'-4"

MAIN #1
COLOR BLUE

3 #2 REQ EQUAL #750

SEE ISOM. VIEW No. 1

MAIN #1
COL. CODE RED

MAIN #3
COL. GREEN

℄ EL. 15'-6"

RELOCATE EXIST. INSPECT
TEST TO MOST REMOTE

TIE INTO EXIST PIPE (MIN. 3')

UPRIGHT HEAD (TYP.)

EXIST. 6" UNRIGHT HEAD (TYP.)

ISOMETRIC VIEW
NO. 1

NO OVERSIGHT, ERROR OR OMISS
ON THE PART OF THE BUILDING
INSPECTOR OR HIS REPRESENTA
SHALL LEGALIZE ALTERATIO
CONSTRUCTION, OR A BUILDI
USE OR OCCUPANCY OF A BUILDI
STRUCTURE THAT DOES NOT CO
TO THE PROVISIONS OF THE
CODE AND THE BUILDING MAINT
ORDINANCE.

TOWN OF OYST
APPROVED
Permit No.
Date 7/-

T.O.S. EL. 18'-0"
4" MAIN ℄ EL. ± 16'-8½"
T.O.S. 15'-6"

UPRIGHT HEAD (TYP.)

℄ ± 16'-3"

24 #8 STL JOISTS (10) TYP.

18 #6 STL JOISTS (6) TYP.

5'-0" (TYP.)

2" MAIN ℄ EL. 13'-6½"

2'-0" | 8'-3" | 11'-0"

TOP OF JOISTS PARALLEL

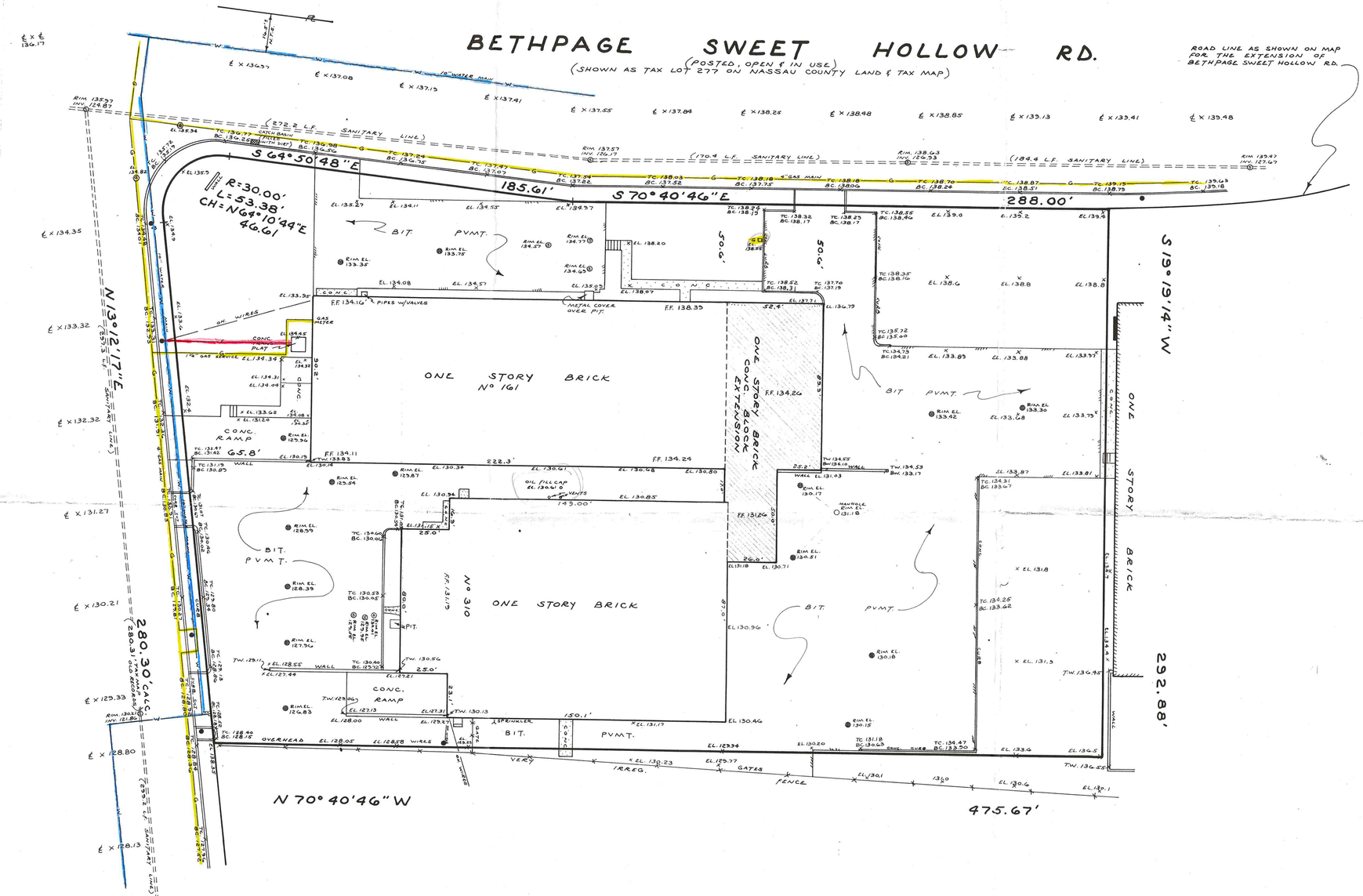
FINISH FLOOR FRAMES

ELEVATION "A-A"
SCALE: ¼" = 1'-0"

NO.	REVISION
1	REVISED PER I.S.O. COMMENTS OF 7/10/86

JOB NO. 8102

AMERICAN



AVERAGE SETBACK

1) 200 FT. FROM ℄ INCLUDING SEC. 47, BLK. A, LOTS 263 & 265 ALONG WINDING ROAD = 83.0 FT.
2) 200 FT. FROM ℄ INCLUDING SEC. 47, BLK. A, LOTS 263 & 265 ALONG BETHPAGE SWEETHOLLOW ROAD = 49.3 FT.

STATE OF NEW YORK
STEPHEN J. KULHANEK
No. 049881-1
LICENSED LAND SURVEYOR

KULHANEK & PLAN
LAND SURVEYORS, P.C.
100 WEST PARK AVE. TELEPHONE
LONG BEACH, NY. 11561 (516) 431-9358
(718) 347-3533

THE DIMENSIONS SHOW HEREON, FROM THE STRUCTURES TO THE PROPERTY LINE ARE FOR A SPECIFIC PURPOSE ONLY, THEY ARE NOT INTENDED TO BE USED FOR THE ERECTION OF FENCES, STRUCTURES OR ANY OTHER IMPROVEMENTS.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK EDUCATION LAW.

COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INK SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

GUARANTEES INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. GUARANTEES ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

NOTE:
1) UNDERGROUND WATER LINES SHOWN BASED ON RECORDS OF THE PLAINVIEW WATER DISTRICT.
2) UNDERGROUND GAS & ELECTRIC LINES BASED ON RECORDS OF LONG ISLAND LIGHTING CO.
3) NO UNDERGROUND TELEPHONE LINES BASED ON RECORDS OF NEW YORK TELEPHONE CO.

ARCHITECTURAL SURVEY OF PROPERTY SITUATED AT OLD BETHPAGE N.Y.

NASSAU COUNTY LAND & TAX MAP
SEC. 47 BLK. A LOTS 263 & 265

SCALE: 1" = 30'

LEGEND

TC	TOP OF CURB ELEVATION
BC	BOTTOM OF CURB ELEVATION
EL	EXISTING ELEVATION
℄	CENTERLINE ELEVATION
FF	FINISH FLOOR ELEVATION
TW	TOP OF WALL ELEVATION
BW	BOTTOM OF WALL ELEVATION
●	UTILITY POLE
S	STREET SIGN
GB	GAS BOX
WV	WATER VALVE
D	DRAINAGE INLETS
CB	CATCH BASIN
SMH	SANITARY MANHOLE
GV	GAS VALVE
W	UNDERGROUND WATER MAIN
G	UNDERGROUND GAS MAIN
E	UNDERGROUND ELECTRIC CABLE

AREA: 146,078 SQ FT.
3.35 ACRES

DATE	REVISION
9-27-86	FINAL SURVEY
7-07-86	FOUNDATION LOCATION ONLY
1-31-86	UNDERGROUND GAS & ELECTRIC ADDED
1-29-86	AVERAGE SETBACKS ADDED

SECTION 47	BLOCK A	DATE 1-14-86
		OLD BETHPAGE NASSAU COUNTY
		JOB No 85-24327A

003528

WATER LINE

HYD.

PROPOSED

S-64-50-48-E 185.61'

CONCRETE

60' WIDE

ROAD

S-70°-40'-46"-E

CURB

288.00'

138.96

138.64

RAD. = 30.00'
L = 53.38'
CH = N-64°-10'-44"-E
46.61'

136.21

135.84

134.04

134.09

228.75'

134.10

ROAD

N-13°-11'-00"-E

CONC. CURB

N-13°-12'-17"-E 129.44'

131.45

9.22'

131.42

130.37

129.62

2.00

133.54

DRAIN
132.89

CESS POOL

222.15

30.15

132.12

5 WATER SERVICES

133.75

DRAIN

129.74

C 5.83

133.55

1 STORY BRICK BUILDING
F.F. ELEV. = 133.79'

N-70°-40'-46"-W 221.97

358.13'

WINDING

1901.65'

WOOD ROAD

50.63

137.54

138.14

PARKING AREA

136.14

138.14

137.89

137.04

133.44

89.90

134.03

DRAIN
133.20
PARKING

DRAIN
133.16
AREA

DRAIN
133.18

133.53

133.13

130.53

2.35

133.53

131.23

133.43

150.00'

292.88'

N-19°-19'-14"-E

S-19°-19'-14"-W

132.63

129.48

N-70°-40'-46"-W 133.61'

134.73

128.63

ROAD LINE AS SHOWN ON MAP FOR THE EXTENSION OF BETHPAGE-SWEET HOLLOW ROAD.

MAP OF PROPERTY OF

AT

OLD BETHPAGE

NASSAU COUNTY, N.Y.

JOSEPH E. DIOGUARDI
LICENSED LAND SURVEYOR
GLEN HEAD, N.Y.

SCALE-1"=40'
DATE:
JULY 27, 1965

REVISED AUG. 31, 1965
REVISED FEB. 25, 1966

AREA = 93,560.00 S.F.
COMPLETED MAY 27, 1966

NICHOLAS RACANELLI
TWINCO INDUSTRIAL BUILDING CORP.
NEW YORK STATE INDUSTRIAL DEVELOPMENT CORP.
NASSAU-SUFFOLK INDUSTRIAL DEVELOPMENT C
INTER-COUNTY TITLE GUARANTY CO.
SECURITY NATIONAL BANK
JOSEPH E. MASON

Joseph E Dioguardi

65190

C-M 51

Certificate of Completion

Town of Oyster Bay Department of Planning and Development

Division of Building, 74 Audrey Avenue, Oyster Bay, New York 11771

10/14/1998 4171

Property Owner Information

EOR 33 OF NEW YORK, INC, 562 FIFTH AVE NEW YORK, NY 10036

Property Information:

SD	Section	Block	Lot(s)	Zone
20	47	A	265	H

Located on	Side of	Feet		of	Post Office
SE	SWEET HOLLOW ROAD	0.00		WINDING ROAD	OLD BETHPAGE

Address of Installation: 161 SWEET HOLLOW RD OLD BETHPAGE, NY 11804

Appl. No.	Permit No.	Permit Date	Receipt No.	Z.B.A. No.	ZBA Date	Town Board No.	Date	Elec No.
4027	R5680	11/24/1997	H138702		/ /		/ /	

Work Completed

R5680 - Demolition of an existing 2000 Gallon Underground Fuel Oil Tank

This certifies that the above construction conforms with the approved plans and codes of the Town of Oyster Bay and the New York State Fire Prevention and Building Code.

initials

Commissioner, Department of Planning and Development

TOBDPD - Certificate of Completion - Owner's Copy

BOND REQUIREMENT

NAME: P. Zanny
DATE: 11-18-97

OWNER AND LOCATION: EOR 33 of N.Y. 161 Sunnethollow Rd - Old Bethpage NY 11804

SEC/BLOCK/LOT 47/A/265

PERMIT NO. #4027

Removal of 1000 gallon fuel oil storage tank:

3 men x 6 hrs = 18 hrs x $100	=	$1800.
Equipment	=	100
Dumping Fee	=	200
Total Estimate	=	$2500.

004627

Application No._____

Disclosure Affidavit

[Please note that where additional information is required to be added, and room does not permit insertion, additional pages may be appended to supply required information. Refer to the number of the paragraph to which such additional information is applicable.

This affidavit may be used for individual applicants, partnership applicants or corporate applicants.]

STATE OF NEW YORK]
] ss.:
COUNTY OF]

Thomas P. Smyth, being duly sworn, deposes and says:

1. That this application is being brought in the name of EOR 33 of New York, Inc..

1a. That I am 29 years of age and reside at 125 Baylis Road, Melville, New York 11747.

2. That: **(Complete a., b. or c., whichever is applicable. Strike out others.)**

a.**(Individual)** I am the _____(owner, lessee, etc.). of the property which forms the subject matter of this application and I am fully familiar with all the facts and circumstances hereinafter set forth.

b.**(Partnership)** I am a _____**% (state percentage of interest) General/Limited** partner in the firm of_____, which firm is the _____**%(percentage of interest** owner, lessee, etc.)of the property which forms the subject matter of this application and I am fully familiar with all the facts and circumstances hereinafter set forth. **If a partnership, state the name of the Partnership and the percentage of interest in same. Strike out General or Limited, whichever does not apply.**

c.**(Corporation)** I am an officer, GCI **,(state office held)** in New York **,(state name of corporation)** a business corporation doing business in the State of New York, which corporation is the _____**% (percentage of interest** owner, lessee, etc.) of the property which forms the subject matter of this application and I am fully familiar with all the facts and circumstances hereinafter set forth. **If an officer of a Corporation which is interested in this application, state the name of the Corporation and the office held.**

3. That there are no encumbrances or holders of any instruments creating an encumbrance upon the subject property, except: **(set forth details)**

Recycled paper ..... Please recycle again

Town of Oyster Bay
Department of Planning and Development
Town Hall
Oyster Bay, New York 11771
(516) 624-6200
FAX(516) 624-6240

C040627

PATRICIA L. McGUIRE
COMMISSIONER

GARY PAPPAS
DEPUTY COMMISSIONER

DEMOLITION OR ABANDONMENT OF FUEL OIL TANKS

STATE OF NEW YORK)
) SS:
COUNTY OF NASSAU)

Thomas P. Smyth
NAME
125 Baylis Road, Melville, N.Y.
ADDRESS

SECTION 47 BLOCK A LOT(S) 265,

Thomas P. Smyth, being duly sworn deposes and says,

that he/she is this day making application to the Department of Planning & Development of the Town of Oyster Bay for a permit for the demolition/abandonment of one (1) TANK(S),

1,000 GALLON(S) fuel oil tank(s).

I/We will provide the Department of Planning & Development the following approvals before a Certificate of Completion will be issued:

1) Nassau County Department of Health Confirmation Number_____.
(Confirmation number to be provided to Inspector at time of Inspection.)

2) Certificate of Disposal Affidavit (If tank(s) removed).

Tom P Smyth
SIGNATURE

SWORN TO BEFORE ME THIS
30 DAY OF Oct 1998

Mark J. Catapano
NOTARY

MARK J. CATAPANO
Notary Public, State of New York
No. 01CA5059842
Qualified in Suffolk County
Commission Expires May 6, 19 99

004027

DEPARTMENT OF PLANNING AND DEVELOPMENT
DIVISION OF BUILDINGS

AFFIDAVIT OF EXCAVATION OR DEMOLITION

ARTICLE 36 NEW YORK STATE GENERAL BUSINESS LAW

Article 36 of the New York State General Business Law requires that no excavator shall commence or engage in any excavation or demolition unless and until he has served timely notice as provided in the law to operators who maintain underground facilities in the Town of Oyster Bay.
Such notice shall be served in accordance with the rules and regulations promulgated by the board of Standards and Appeals pursuant to section twenty eight of the Labor Law. A list of all operators is available in the Town Clerks Office.

OWNERS NAME EOR 33 of New York Inc.

ADDRESS 562 Fifth Avenue, New York, NY 10036

ADDRESS OF SITE TO BE EXCAVATED

161 Sweethollow Rd., Old Bethpage, NY

SECTION 47 **BLOCK** A **LOT** 265

APPLICATION NUMBER

INDUSTRIAL CODE NUMBER 56

Pursuant to Industrial code 56, prior to the **demolition** of any non-residential building, notification is to be made, in the appropriate form to the New York State Asbestos Control Bureau, regarding any asbestos removal or required asbestos surveys, **before** commencing demolition.

State of New York County of Nassau

I HEREBY AFFIRM UNDER THE PENALTIES OF PERJURY THAT THE ABOVE APPLICANT AND OR APPLICATION HAS COMPLIED WITH ARTICLE 36 OF THE NEW YORK STATE GENERAL BUSINESS LAW RESPECTING UNDERGROUND FACILITIES, AND HAVE COMPLIED WITH INDUSTRIAL CODE NUMBER 56 REGARDING ASBESTOS.

DATE 10-30-97

SIGNED [signature] **TITLE** Agent

NOTARY STAMP

SWORN TO ME THIS 30 **DAY** OCT **19** 97

NOTARY SIGNATURE Robert W. Heilmann

ROBERT W. HEILMANN, JR.
Notary Public, State of New York
No. 4975053
Qualified in Suffolk County
Commission Expires November 26, 1998

New York State Department of Environmental Conservation

SEC. BLK. LOT
47 A 263/265

PUBLIC NOTICE

State Superfund Program

Site Name: Former Aluminum Louvre Corporation **March 2009**
Site No. 130195 **Tax Map Nos.** 47-A-263 and 47-A-265
Site Location: 161 Bethpage-Sweethollow Rd. and 301 Winding Rd., Old Bethpage, NY 11804

Inactive Hazardous Waste Disposal Site Classification Notice

The Inactive Hazardous Waste Disposal Site Program (the State Superfund Program) is the State's program for identifying, investigating, and cleaning up sites where the disposal of hazardous waste may present a threat to public health and/or the environment. The New York State Department of Environmental Conservation (Department) maintains a list of these sites in the Registry of Inactive Hazardous Waste Disposal Sites (the "Registry"). The site identified above was recently added to the Registry as a site that presents a significant threat to public health and/or the environment - action required (Class 2). See map on other side for the approximate location of the site.

United States Environmental Protection Agency (USEPA) sampling detected soil and groundwater concentrations on the site exceeding the standards, criteria, and guidance (SCG). Trichloroethylene (TCE) concentrations in soil exceeded the unrestricted soil cleanup objective of 0.47 ppm in 3 of 31 soil samples. The exceedances ranged from 1.3 ppm to 520 ppm. Maximum on-site TCE concentrations in groundwater exceeded the groundwater standard of 5 ppb in 13 of 20 groundwater samples. Exceedances ranged from 6 ppb to 3,000 ppb. Maximum on-site tetrachloroethene (PCE) concentrations in groundwater exceeded the groundwater standard of 5 ppb in 7 of 20 groundwater samples. Exceedances ranged from 12 ppb to 130 ppb. The groundwater at the site is in a federally-designated sole source aquifer.

The Department will keep you informed throughout the investigation and cleanup of the site.

If you own property adjacent to this site and are renting or leasing your property to someone else, please share this information with them. If you no longer wish to be on the contact list for this site or otherwise need to correct our records, please contact the Department's Project Manager listed below.

FOR MORE INFORMATION

Additional information about this site can be found using the Department's "Environmental Site Remediation Database Search" engine which is located on the internet at:
www.dec.ny.gov/cfmx/extapps/derexternal/index.cfm?pageid=3

Comments and questions are always welcome and should be directed as follows:

Project Related Questions
Jeffrey Dyber
NYS Department of Env. Conservation
625 Broadway
Albany, NY 12233-7015
(518) 402-9622

Health Related Questions
Don Miles
New York State Department of Health
547 River Street
Troy, NY 12180-2216
(518) 402-7880

TOWN OF OYSTER BAY
2009 MAR 16 A 9 41
PLANNING AND DEVELOPMENT

The Department is sending you this notice in accordance with Environmental Conservation Law Article 27, Title 13 and its companion regulation (6 NYCRR 375-2.7(b)(6)(ii)) which requires the Department to notify all parties on the contact list for this site of this recent action.

TOWN OF OYSTER BAY
DEPARTMENT OF PLANNING & DEVELOPMENT
DIVISION OF BUILDING
AUDREY AVENUE, OYSTER BAY, NEW YORK 11771

S.B.L. COPY
POST THIS PERMIT CONSPICUOUSLY

SD.#20 BUILDING PERMIT

SECTION	BLOCK	LOT	ZONE	APPLICATION NO.	B/A CASE NO.	RECEIPT NO.	DATE ISSUED	PERMIT NO.
47	A	263-265	H	480		G-2823	6/4/86	K 8534

PERMITTEE: Mel Greenberg

CONTRACTOR: J.J.Kogel, Const PHONE NO. 694-
931 Conklin St., Farmingdale

STREET ADDRESS: 161 Bethpage/Sweet Hollow Rd.

PLUMBER PHONE NO.

JB/fa

POST OFFICE: Old Bethpage, N.Y. TELEPHONE NO.

HEATING PHONE NO.

SANITARY PHONE NO.

PERMISSION GRANTED FOR CONSTRUCTION OF:

FAMILY DWELLING ☐ COMMERCIAL ☐ FACTORY ☐ ☐

One story masonry addition 139.83' x 52.25' irregular type 2b construction, C-4 Occupancy. Install (2) dry wells per Code.

Zoning Review: Must provide (17) 10' x 20' and(108) 9' x 20' on site parking stalls.

Permit must be posted on job.
Must give 24 hour notice for inspection.

LOCATED ON	SIDE OF	FEET	OF	POST OFFICE	EST. VAL. CONSTRUCTION
East/c	.Winding Rd.	and	Bethpage/ Sweet Hollow Rd.	Old Bethpage	$ 278,497.00

STRUCTURE WTH.	LENGTH	HEIGHT	STORIES	FRONT YARD	REAR YARD	SIDE YARD	SIDE YARD	Front Side Yd.
140'	52'	16'	1	65'	150'	15'		50'

S. BLOCK	PRECAST	SEPTIC TANK	DRY WELLS	NO. PLUMB. FIXTURES	NO. BURNERS OIL	GAS	COAL	SEWER CONNECTION NEW	RENEW	SPRINKLER MAIN
	XX	GAL.	2							IN.

OIL TANK INSIDE		OIL TANK OUTSIDE		HOT WATER HEATERS	
GAUGE	GAL.	GAUGE	GAL.	OIL	GAS

FEE FOR	AMOUNT
CONSTRUCTION	859 00
PLUMBING	
BURNER	
TANK	
SANITARY	30 00
PLUMB. C. A.	
CONST. C. O	283 00
TOTAL FEE	1172 00

YOUR LICENSE IS NOT TRANSFERABLE AND IS SUBJECT TO REVOCATION UPON VIOLATION.

ALL ELECTRICAL AND PLUMBING CONTRACTORS MUST BE LICENSED IN THE TOWN OF OYSTER BAY

FOUNDATION SURVEY MUST BE APPROVED BEFORE WALLS, STEEL OR FRAMING STARTS, SEE 4 *

THIS IS A PERMIT FOR CONSTRUCTION, PLUMBING, BURNER, TANK AND SANITARY WORK IF IT IS INDICATED ABOVE AND FEES HAVE BEEN PAID - N.B.: SANITARY PERMIT VALID ONLY IF FILED PLANS ARE APPROVED.

[redacted]
DIVISION OF BUILDING

OCCUPANCY OF THIS NEW BUILDING OR ADDITION OR ALTERATION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY WILL BE CONSIDERED A VIOLATION OF THE TOWN OF OYSTER BAY BUILDING CODE, PLUMBING CODE, AND/OR BUILDING ZONE ORDINANCE.

PROMPT NOTIFICATION BY THE VARIOUS CONTRACTORS FOR INSPECTIONS OF THEIR RESPECTIVE PARTS OF THE WORK WILL AVOID DELAY IN THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

REQUEST FOR INSPECTION MUST BE FILED IN WRITING AT LEAST 48 HOURS PRIOR TO TIME DESIRED, EXCEPT SANITARY INSPECTION WHICH MUST BE FILED IN WRITING AT LEAST 72 HOURS IN ADVANCE.

INSPECTIONS: Normally there are 12 or more required inspections of a new building and as many as apply to alterations and additions.

1. SOIL CONDITIONS - Before foundation footings are poured. Forms in place.
2. FOUNDATION FORMS & KEY - Before walls are poured.
3. CONCRETE WALLS & OTHER CONCRETE - When being poured.
4. FRAMING - Before insulation or lathing. (Foundation location survey)*
5. ROUGH ENCLOSED - Before exterior finish or interior finish is applied.
6. FINAL ON CONSTRUCTION - When ready for certificate of occupancy.
7. PLUMBING - Roughing, when ready for water test.
8. FLANGE INSPECTION - 8A Sewer connection if used.
9. PLUMBING FINAL - When ready for certificate of approval.
0. BURNER - When installed with inside tank in place.
1. TANKS - Outside before being covered.
2. SANITARY (1) Excavation (2) Construction (3) Special.

CHANGES REGARDLESS OF SIZE FROM THE STAMPED APPROVED PLANS MUST BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND DEVELOPMENT AND APPROVED BEFORE THE CHANGES ARE MADE. APPROVED PLANS MUST BE RETAINED ON THE JOB AND AVAILABLE TO INSPECTORS AT ALL TIMES.

ADDITIONAL NOTES:

FENLEY & NICOL ENVIRONMENTAL INC.
NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

DATE 12/2/97 JOB Nº 21807

1. **GENERATOR OF WASTE**

NAME E.O.R. 33 of New York, Inc.

ADDRESS 161 Sweet Hollow Road Melville, N.Y.

PHONE NUMBER —

SITE LOCATION Same as above

2. **IDENTIFICATION OF WASTE**

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
oil tank Bottoms & Speedy dry	N-011	55 gallon metal D.O.T. Drum	1
Spill # (if applicable)	ERG #		

3. **GENERATOR'S CLASSIFICATION**

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR and/or (Authorized Agent) MATTHEW Boecke/ (please print or type)

SUPERVISOR'S SIGNATURE Matthew Boecke TITLE Sr. Hydrogeologist

4. **TRANSPORTER NAME AND ADDRESS**

NAME FENLEY & NICOL ENVIRONMENTAL INC.

ADDRESS 445 BROOK AVENUE, DEER PARK, NY 11729

PHONE NUMBER 24 Hour Emergency# (516) 586-4900

DRIVER'S NAME Brian Wyble SIGNATURE Brian Wyble

INDUSTRIAL WASTE HAULER PERMIT # 1A-036 VEHICLE PLATE # VN9067

5. **DISPOSAL SITE** (Must be filled in by disposal site)

NAME OF FACILITY

ADDRESS OF FACILITY

PHONE NUMBER

This load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable)

DISPOSAL SITE INSPECTOR NAME

SIGNATURE DATE

NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # 97215444

ember 2, 1997

MANIFEST # No. 05032

ENERATOR OF WASTE

AME GCI

DDRESS 161 Sweet Hollow Rd, Melville, NY.

HONE NUMBER

TE LOCATION same as above.

ENTIFICATION OF WASTE

IOPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
el mixture, 3 NA1993 PG III	NY002	T.T.	520 gals
ill # (if applicable)	ERG # 27.		

NERATOR'S CLASSIFICATION

s is to certify that the herein named materials are properly described, classified and are in proper condition for transportation ording to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State ulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the ment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

NERATOR'S CONTACT SUPERVISOR Matt Boeckel
/or (Authorized Agent) please print or type

ERVISOR'S SIGNATURE Matthew Boeckel TITLE Senior Hydrogeologist

NSPORTER NAME AND ADDRESS (#1) **(#2)**

FENLEY & NICOL ENVIRONMENTAL INC. NAME

445 BROOK AVENUE. DEER PARK, NY 11729 ADDRESS

24 Hour Emergency# (516) 586-4900 PHONE NUMBER

Joseph LaSauter SIGNATURE Joseph LaSauter DRIVER'S NAME SIGNATURE

ULER PERMIT # 1A-036 VEHICLE PLATE # JV9727 INDUSTRIAL WASTE HAULER PERMIT # VEHICLE PLATE #

OSAL SITE (Must be filled in by disposal site)

E OF FACILITY

IESS OF FACILITY

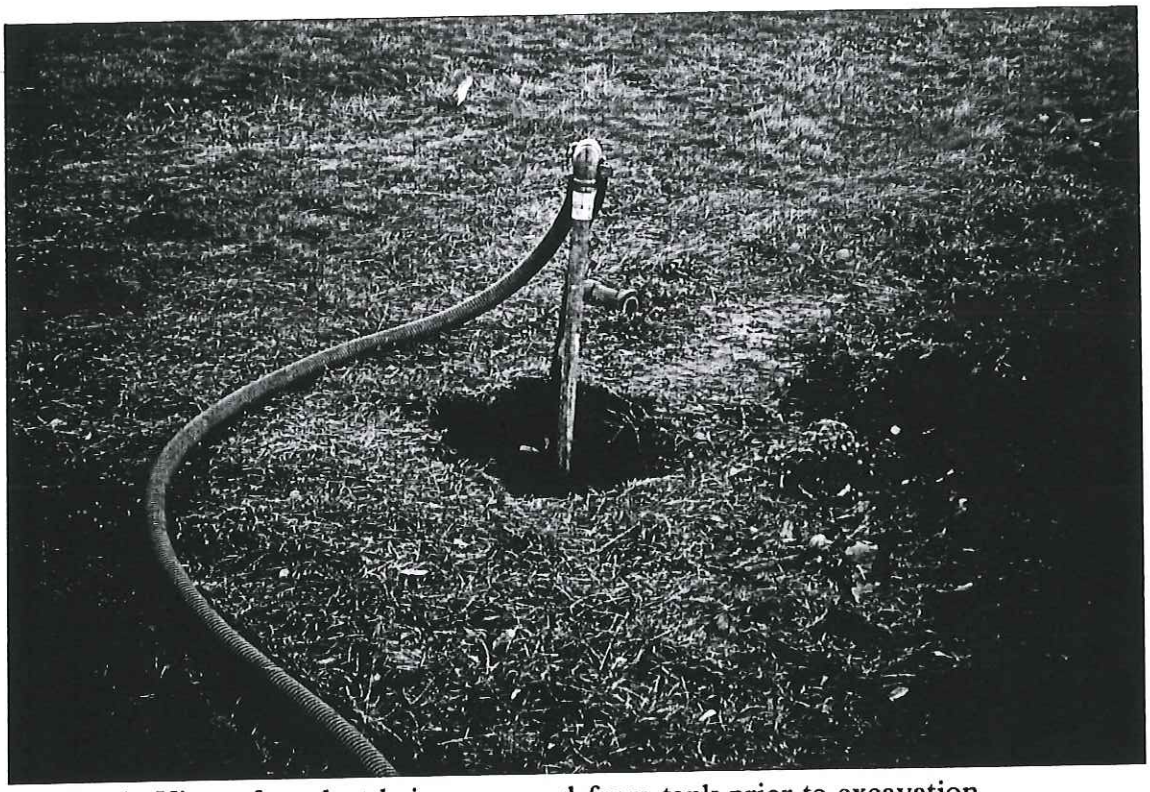
IE NUMBER

ad was received as stated by generator YES ☐ NO ☐

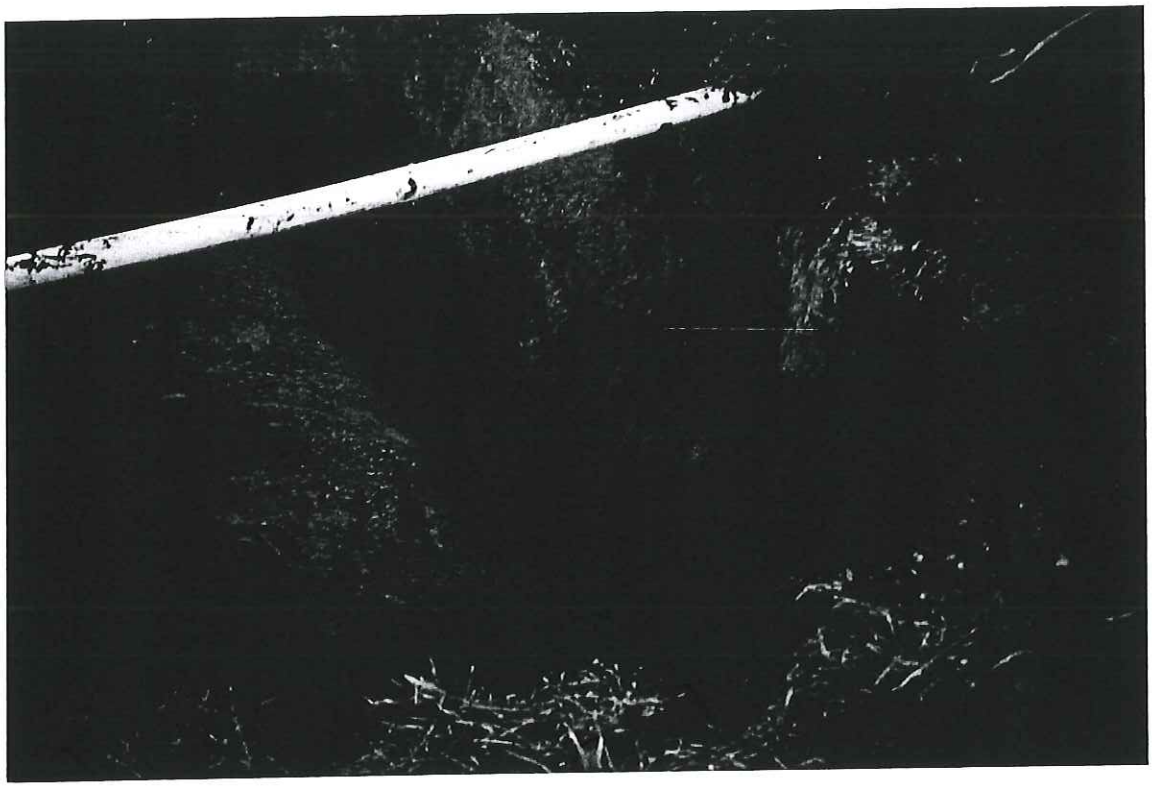
OSAL SITE IDENTIFICATION NUMBER (if applicable)

OSAL SITE INSPECTOR NAME

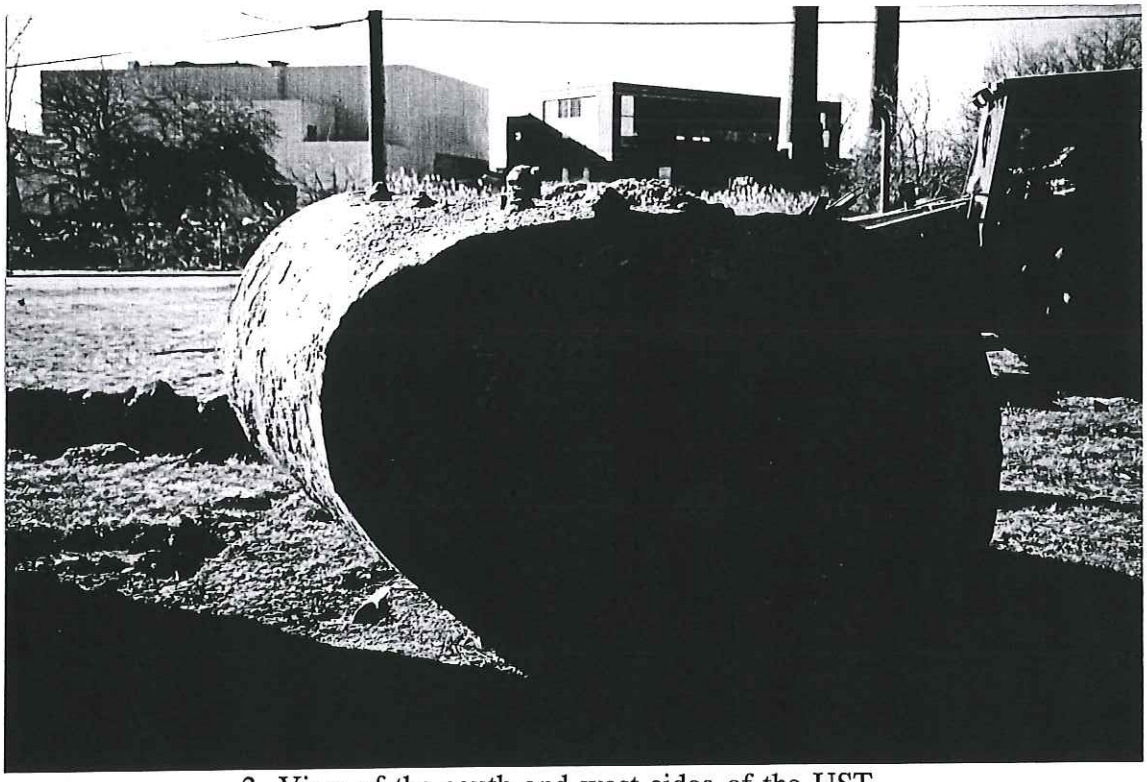
ATURE



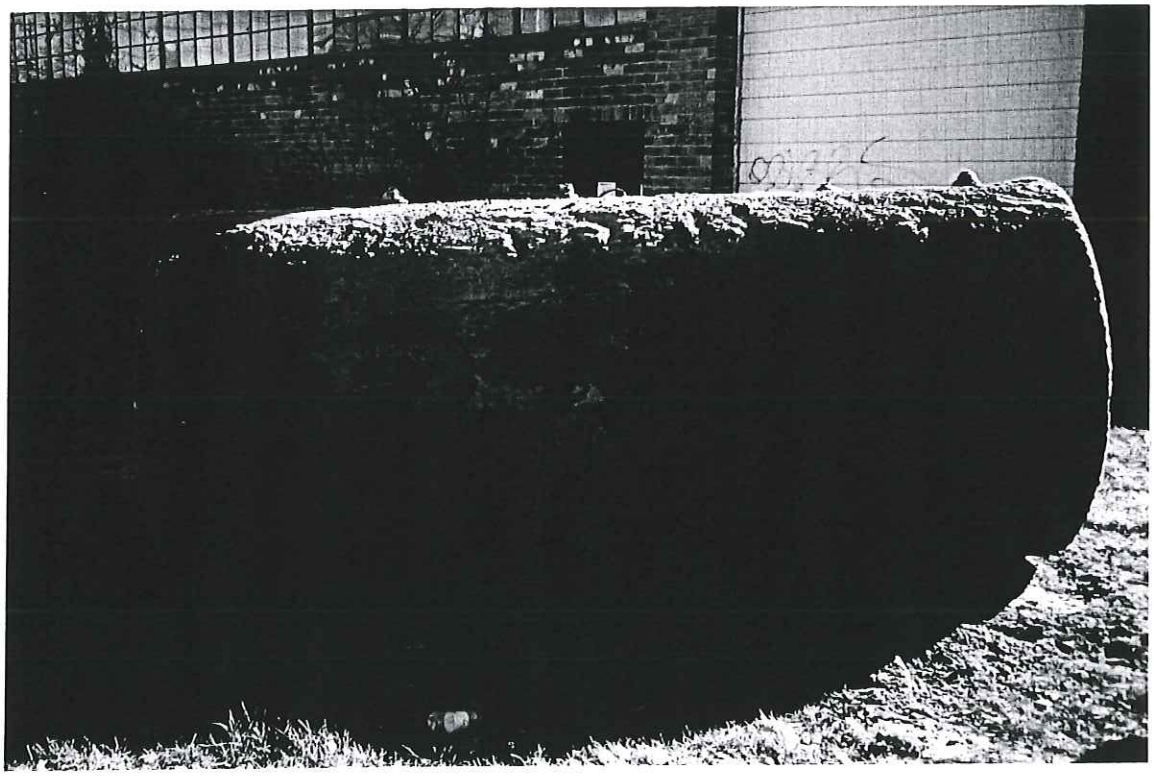
1. View of product being removed from tank prior to excavation.



2. View of the top of the UST upon excavation.

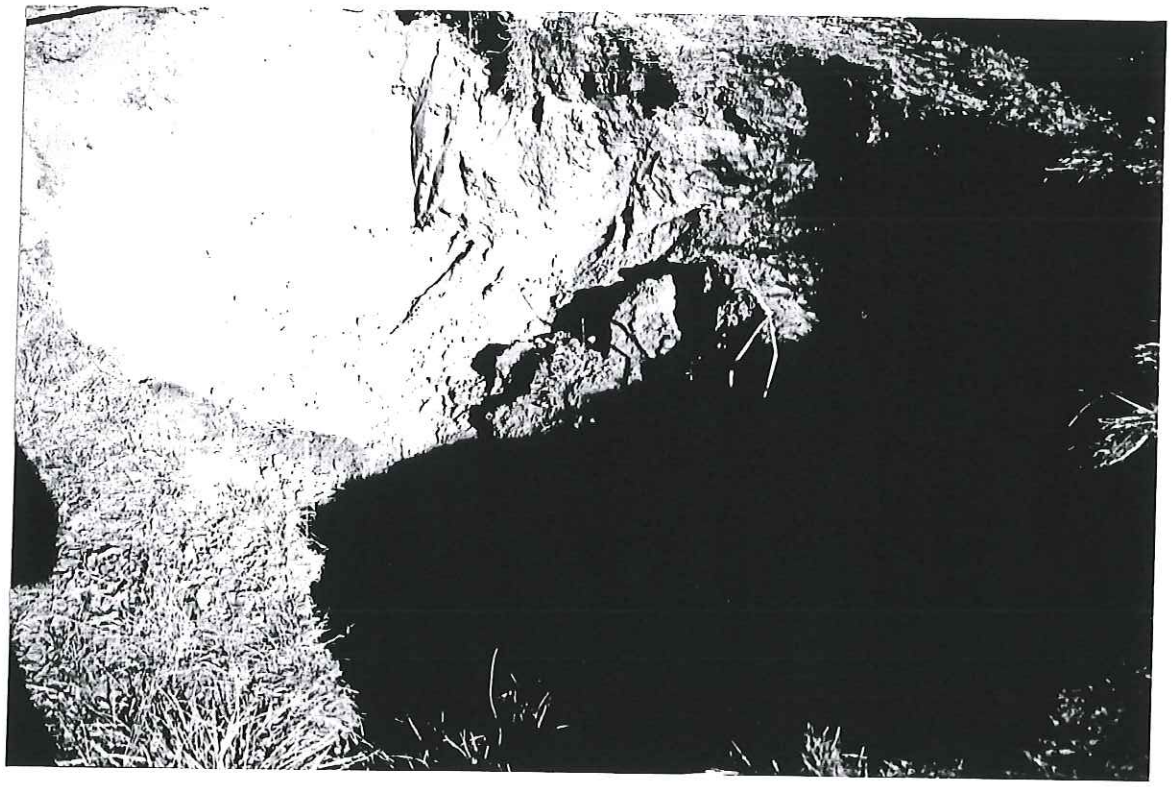


3. View of the south and west sides of the UST, after being removed from the subsurface.



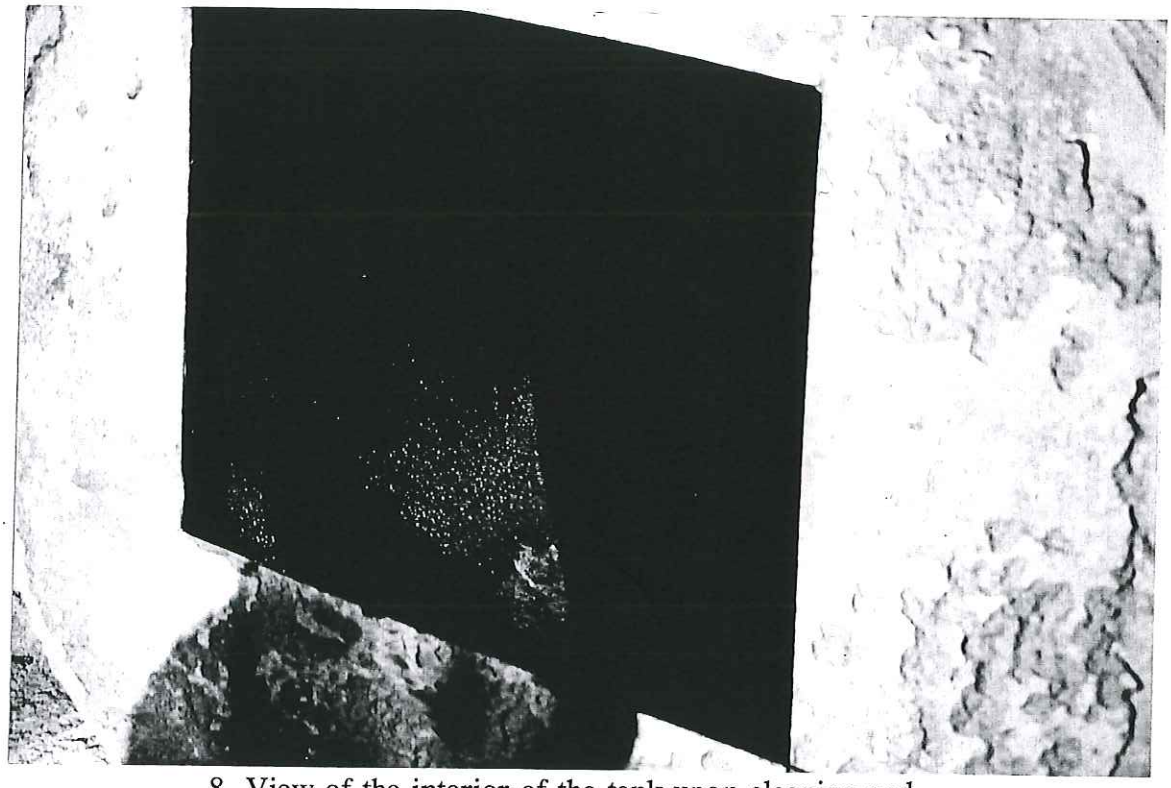
4. View of the east side of the UST upon excavation.

5. View of the north side of the UST upon excavation.



6. View of the excavation pit upon removal of the tank.

7. View of the UST being cut open prior to cleaning.



8. View of the interior of the tank upon cleaning and removing the residual product.

CERTIFICATION OF OCCUPANCY

TOWN OF OYSTER BAY
DEPARTMENT OF PLANNING & DEVELOPMENT
DIVISION OF BUILDING
TOWN HALL AUDREY AVENUE
OYSTER BAY, N.Y. 11771

No. B 5936

Date 3/23/64

This Certifies that a certificate of occupancy # 23534 Dated 7/2/63

has been issued on the building located on Section 47 Block A Lot 269 Zone

Location E/S/OE Winding Rd. 150' So/OE Sweet Hollow Rd., Old Bethpage

Permitted occupancy 149.8'X 119.95' & 25' X 30' Industrial Building

Non-conforming use

Building Permit No. B02721 Dated 12/3/63 19

Board of Appeals Case No.

Survey dated 11/9/63 submitted

N.Y. Bd. of Fire Underwriter's No. M452716

Fee — $7.50 XX

Application No. 1828 1d

Receipt No.

SUPERINTENDENT
DIVISION OF BUILDING

Oct. 1977

WARNING: ANY ALTERATION INVALIDATES THIS CERTIFICATE

CERTIFICATE OF OCCUPANCY No. 23534

TOWN OF OYSTER BAY BUILDING DEPARTMENT
OYSTER BAY, NASSAU COUNTY, N. Y.

ISSUED TO OWNER
NAME Twinco Industrial Bldg. Corp.
STREET ADDRESS 3000 Burns Avenue
POST OFFICE Wantagh, L I.

DATE 7-30-65 am
BUILDING PERMIT No. B02721
CESSPOOL PERMIT No.
PLUMBING PERMIT No.
OIL BURNER PERMIT No.
APPEAL BOARD No.
SCHOOL DIST. Zone H

FOR BUILDING LOCATED ON THE TAX MAP OF THE TOWN OF OYSTER BAY IN
SECTION 47 BLOCK LOTS ~~Pt. 166~~ 263

This CERTIFIES that the Building located at East side of Winding Road 150' south of Sweet Hollow Road, Bethpage

was constructed substantially in accordance with the plans filed for the above Building Permit and to all requirements of The Building Zone Ordinance and The Building Code of the Town of Oyster Bay and the occupancy is limited to the following use: CLASS
~~105' x 68' Industrial Bldg. H-Zone Use Only~~
Wrong dimensions

SHOULD THE OCCUPANCY CHANGE FROM THE ABOVE LIMITATION OF USE, APPLICATION MUST BE MADE FOR NEW CERTIFICATE.

TOWN OF OYSTER BAY BUILDING DEPARTMENT

UNDERWRITERS' CERTIFICATE
N.B.F.U. No.....

OYSTER BAY
...MENT OF PLANNING & DEVELOPMENT
DIVISION OF BUILDING
AUDREY AVENUE, OYSTER BAY, NEW YORK 11771

S.B.L. COPY

NEW YORK P.#20

BUILDING PERMIT

POST THIS PERMIT CONSPICUOUSLY

SECTION	BLOCK	LOT	ZONE	APPLICATION NO.	B/A CASE NO.	RECEIPT NO.	DATE ISSUED	PERMIT NO.
47	A	263 - 265	H	3528		G-7822	11/14/86	K 10431

JB/fa

PERMITTEE: Mel Greenberg

STREET ADDRESS: 161 Bethpage/Sweet Hollow Rd.

POST OFFICE: Old Bethpage, NY

TELEPHONE NO.

CONTRACTOR: J.J.Kogel Const PHONE NO. 9318 Conklin St.,Farmingdal

PLUMBER PHONE NO.

HEATING PHONE NO.

SANITARY PHONE NO.

PERMISSION GRANTED FOR CONSTRUCTION OF:

FAMILY DWELLING ☐ COMMERCIAL ☐ FACTORY ☐ ☐

Install additional (58) sprinkler heads to existing system with 4" main.

Zoning Review: None

Permit must be posted on job.
Must give 24 hour notice for inspection.

LOCATED ON	SIDE OF	FEET	OF	POST OFFICE	EST. VAL. CONSTRUCTION
/E/c.	Beth./Sweet Hollow	and	Winding Rd.	Old Bethpage	$

STRUCTURE WTH.	LENGTH	HEIGHT	STORIES	FRONT YARD	REAR YARD	SIDE YARD	SIDE YARD	Front Side Yd.
				65'	150'	15'		50'

S. BLOCK	PRECAST	SEPTIC TANK	DRY WELLS	NO. PLUMB. FIXTURES	NO. BURNERS OIL	GAS	COAL	SEWER CONNECTION NEW	RENEW	SPRINKLER MAIN
		GAL.								4 IN.

OIL TANK INSIDE		OIL TANK OUTSIDE		HOT WATER HEATERS OIL	GAS	
GAUGE	GAL.	GAUGE	GAL.			(58) heads

FEE FOR	AMOUNT	
CONSTRUCTION	50	00
PLUMBING		
BURNER		
TANK		
SANITARY		
PLUMB. C. A.		
CONST. C. O		
TOTAL FEE	50	00

YOUR LICENSE IS NOT TRANSFERABLE AND IS SUBJECT TO REVOCATION UPON VIOLATION.

ALL ELECTRICAL AND PLUMBING CONTRACTORS MUST BE LICENSED IN THE TOWN OF OYSTER BAY

FOUNDATION SURVEY MUST BE APPROVED BEFORE WALLS, STEEL OR FRAMING STARTS, SEE 4 *

THIS IS A PERMIT FOR CONSTRUCTION, PLUMBING, BURNER, TANK AND SANITARY WORK IF IT IS INDICATED ABOVE AND FEES HAVE BEEN PAID - N.B.: SANITARY PERMIT VALID ONLY IF FILED PLANS ARE APPROVED.

Richard Blankenship, Jr.
[redacted]
DIVISION OF BUILDING

CCUPANCY OF THIS NEW BUILDING OR ADDITION OR ALTERATION PRIOR TO ISSUANCE OF A CERTIFICATE OF OCCUPANCY 'ILL BE CONSIDERED A VIOLATION OF THE TOWN OF OYSTER BAY BUILDING CODE, PLUMBING CODE, AND/OR BUILDING ONE ORDINANCE.

ROMPT NOTIFICATION BY THE VARIOUS CONTRACTORS FOR INSPECTIONS OF THEIR RESPECTIVE PARTS OF THE WORK WILL VOID DELAY IN THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.

EQUEST FOR INSPECTION MUST BE FILED IN WRITING AT LEAST 48 HOURS PRIOR TO TIME DESIRED, EXCEPT SANITARY IN-PECTION WHICH MUST BE FILED IN WRITING AT LEAST 72 HOURS IN ADVANCE.

INSPECTIONS: Normally there are 12 or more required inspections of a new building and as many as apply to alterations and additions.

SOIL CONDITIONS - Before foundation footings are poured. Forms in place.
FOUNDATION FORMS & KEY - Before walls are poured.
CONCRETE WALLS & OTHER CONCRETE - When being poured.
FRAMING - Before insulation or lathing. (Foundation location survey)*
ROUGH ENCLOSED - Before exterior finish or interior finish is applied.
FINAL ON CONSTRUCTION - When ready for certificate of occupancy.
PLUMBING - Roughing, when ready for water test.
FLANGE INSPECTION - 8A Sewer connection if used.
PLUMBING FINAL - When ready for certificate of approval.
BURNER - When installed with inside tank in place.
TANKS - Outside before being covered.
SANITARY (1) Excavation (2) Construction (3) Special.

CHANGES REGARDLESS OF SIZE FROM THE STAMPED APPROVED PLANS MUST BE SUBMITTED TO THE DEPARTMENT OF PLANNING AND DEVELOPMENT AND APPROVED BEFORE THE CHANGES ARE MADE. APPROVED PLANS MUST BE RETAINED ON THE JOB AND AVAILABLE TO INSPECTORS AT ALL TIMES.

ADDITIONAL NOTES:

GCI
ENVIRONMENTAL & ENGINEERING CONSULTANTS
·125 BAYLIS ROAD · MELVILLE, NEW YORK 11747-3800 · TEL: 516-694-7878 · FAX: 516-694-7130
·TWO STAMFORD LANDING · SUITE 100 · STAMFORD, CONN. 06902-7649 · TEL: 203-921-0364 · FAX: 203-921-0311
·PARK 80 WEST · PLAZA II · SUITE 200 · SADDLE BROOK, NEW JERSEY 07663-5836 · TEL: 201-291-2772 · FAX: 201-291-2753
GENERAL CONSOLIDATED INDUSTRIES, INC.
1-800-842-5073

August 10, 1998

47-14-265

Town of Oyster Bay
Department of Planning and Development
Town Hall
Oyster Bay, New York 11771-1592

Attn: Mr. Mike Fabrizio

Re: **Permit No. R5680**
161 Sweethollow Road
Old Bethpage, New York 11804
GCI Project No. 960285

Dear Mr. Fabrizio:

As per your request I am submitting to you a letter regarding the removal of one (1) - 2,000 gallon fuel oil underground storage tank (UST). The tank excavation work was conducted on December 2, 1997.

One (1) - 2,000 gallon single wall steel fuel oil UST was removed from the subject site on December 2, 1997. The UST removal was witnessed by Mr. Mike Mangino, Public Health Sanitarian for the Nassau County Department of Health (NCDH). A total of 1,949 gallons of fuel oil were removed from the UST prior to the excavation. The disposal manifest for the fuel oil is included with this report. The UST was observed to be structurally sound with no holes or pitting observed. Mr. Mangino indicated that the tank was observed to be in very good condition. There were no signs of contamination observed in the tank pit upon removal of the UST. Mr. Mangino indicated that the soils appeared clean and that no further excavation was required. Mr. Mangino indicated that no end-point samples were required to be taken. The tank pit was backfilled with clean sand to grade.

The UST was cleaned utilizing "speedi-dri" absorbent pellets. The waste sludge removed from the UST during the cleaning process was contained in one (1) - 55 gallon storage drum. The waste disposal manifest for the drum is included with this letter report. The UST was then cut in half and loaded onto a flatbed trailer. The tank was disposed of at Gershow Recycling.

Due to the fact that the UST was over 1,100 gallons in size, it was required to be registered and permitted with the NCDH. The appropriate permit application forms were submitted to the NCDH on December 11, 1997. The NCDH has assigned confirmation No. 337-H97 for the removal of the fuel oil UST. I have also enclosed several pictures which were taken during the removal of the UST.

Should you have any questions, or require anything further, please feel free to contact our office. I thank you for the opportunity to provide you with our environmental consulting services.

Sincerely,

STATE OF NEW YORK
THOMAS P. SMYTH
LICENSED PROFESSIONAL ENGINEER

Tom P. Smyth, Sr. P.E.
Senior Civil Engineer

10/14/98 9:57 S/w Robin Putnam (571-2307-NCDH) shows tank removed approval # 337-H97R01 no paperwork necessary as long as above approval # was issued

Deane
10/14/98

NON-HAZARDOUS / NON-REGULATED WASTE MANIFEST

PLEASE TYPE OR PRINT CLEARLY

JOB # 97215444

December 2, 1997

MANIFEST # No. 04947

GENERATOR OF WASTE

NAME GCT

ADDRESS 161 Sweet Hollow Rd, Melville, NY.

PHONE NUMBER

SITE LOCATION Same as above.

IDENTIFICATION OF WASTE

PROPER U.S. D.O.T. SHIPPING NAME	STATE CODE	CONTAINER TYPE	QTY.
Fuel mixture 3, NA1993 PG III Bill # (if applicable)	N-002 ERG # 27	T-T	1429 gals

GENERATOR'S CLASSIFICATION

This is to certify that the herein named materials are properly described, classified and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, Environmental Protection Administration and Local State regulations. The wastes are described herein were consigned to the transporter named. The TSD Facility can and will accept the shipment of waste, and has a valid permit to do so. I certify that the foregoing is true and correct to the best of my knowledge.

GENERATOR'S CONTACT SUPERVISOR OR (Authorized Agent) X Matt Boeckel MATT BOECKEL (please print or type)

SUPERVISOR'S SIGNATURE X Matt Boeckel TITLE X Senior Hydrogeologist

TRANSPORTER NAME AND ADDRESS (#1) (#2)

FENLEY & NICOL ENVIRONMENTAL INC.

445 BROOK AVENUE. DEER PARK. NY 11729

24 Hour Emergency# (516) 586-4900

Joseph LoSardo SIGNATURE Joseph LoSardo

HAULER PERMIT # 1A-036 VEHICLE PLATE # NZ3240

NAME

ADDRESS

PHONE NUMBER

DRIVER'S NAME SIGNATURE

INDUSTRIAL WASTE HAULER PERMIT # VEHICLE PLATE #

DISPOSAL SITE (Must be filled in by disposal site)

NAME OF FACILITY

ADDRESS OF FACILITY

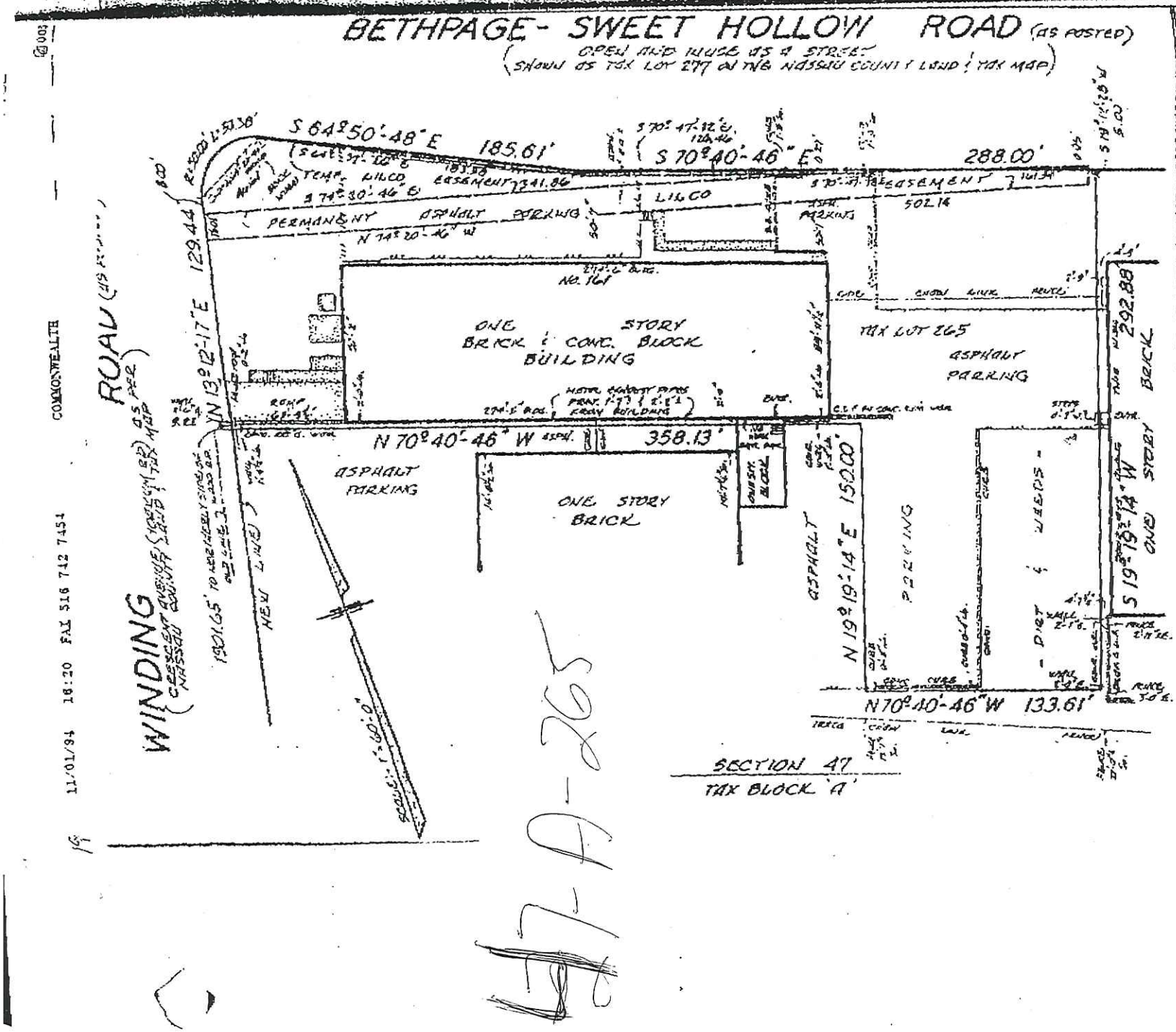
PHONE NUMBER

Load was received as stated by generator YES ☐ NO ☐

DISPOSAL SITE IDENTIFICATION NUMBER (if applicable)

DISPOSAL SITE INSPECTOR NAME

TITLE



MAP OF PROPERTY
SITUATE AT
OLD BETHPAGE
TOWN OF OYSTER BAY
NASSAU COUNTY, N.Y.

LOT NUMBERS

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

GUARANTEES OR CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. GUARANTEES OR CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

GUARANTEED TO:
COMMONWEALTH LAND TITLE INSURANCE COMPANY FOR THIRTY-THREE OF NEW YORK, INC.

SURVEYED OCTOBER 31, 1994

ROBERT A. HAYNES
PROFESSIONAL LAND & CITY SURVEYOR
213-15 NORTHERN BLVD., SUITE 2E
LITTLE NECK, N.Y. 11363
219 SYOSSET-WOODBURY ROAD
SYOSSET, N.Y. 11791
718-631-7595
516-496-4530

COMMONWEALTH 11/01/94 16:20 FAX 516 742 7454 003

BETHPAGE - SWEET HOLLOW RD.

(POSTED, OPEN FOR USE)

(SHOWN AS TAX LOT 277 ON NASSAU COUNTY TAX MAP)

TITLE No. 455 N 0117
(85-0246)

ROAD LINE AS SHOWN ON MAP FOR THE EXTENSION OF BETHPAGE SWEET HOLLOW RD.

S 64°50'48"E 185.61'

S 70°40'46"E. 288.00'

S 19°19'14"W 292.88'

N 70°40'46"W 133.61'

N 19°19'14"E 150.00'

N 70°40'46"W 358.13'

N 13°12'17"E 129.44'

S 70°40'46"E 9.22'

N 70°40'46"W 222.1'

N 19°19'14"E 1901.65'

N 64°50'48"W 1901.65'

WOOD RD.

WINDING (CRESCENT AVE.) RD.

To be Removed

2000 GAL ~~1000~~ Gallon Fuel Oil UST

12/5/95

BIT. PVMT.

CONC.

METAL COVER OVER PIT

50.6'

WALL

ONE STORY BRICK

CONC FRAME PLT.

AIR COND.

50.2'

RAMP

1.5'W 2.3'E CO 5.8'

WALL

2.0'W

2.4'W

METAL SHED

COMPACTOR

BIT. PVMT.

0.3'W IRREG. EDGE CONC.

2.3'W

4.8

ONE STORY BRICK

IRREG. FENCE GEN. ALONG LINE

PROJECTIONS
SMOKE. STACK 0.5'

IRREG. FENCE 0.3'E

IRREG. WALL 2.0'E

IRREG. FENCE

1.6'S

IRREG. FENCE

DIMENSIONS SHOW HEREON, FROM THE TURES TO THE PROPERTY LINE ARE FOR A IC PURPOSE ONLY. THEY ARE NOT DED TO BE USED FOR THE ERECTION OF S, STRUCTURES OR ANY OTHER IMPROVEMENT.

THORIZED ALTERATIONS OR ADDITIONS IS SURVEY IS A VIOLATION OF SECTION 7209; VISION 2 OF THE NEW YORK EDUCATION LAW,

S OF THIS SURVEY MAP NOT BEARING THE SURVEYOR'S INKED SEAL OR EMBOSSED SEAL NOT BE CONSIDERED TO BE A VALID TRUE

ANTEES INDICATED HEREON SHALL RUN ONLY E PERSON FOR WHOM THE SURVEY IS R'D, AND ON HIS BEHALF TO THE TITLE A'Y, GOVERNMENTAL AGENCY AND LENDING UTION LISTED HEREON, AND TO THE OFFICES OF THE LENDING INSTITUTION. ANTEES ARE NOT TRANSFERABLE TO IONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

HANK DEMO

TOWN OF OYSTER BAY
APPROVED
Permit No. R 36580
Date 11-24-97

11/21/97 JR

STATE OF NEW YORK
STEPHEN J. KULHANEK
No. 049581-1
LICENSED LAND SURVEYOR

NASSAU COUNTY LAND & TAX MAP
SEC. 47 BLK. A LOT 265

KULHANEK & PLAN
LAND SURVEYORS

WEST PARK AVE. TELEPHONE
BEACH, N.Y. 11561 (516)431-9358
(718)347-3533

SECTION 47	BLOCK A	DATE 9-06-85
GUARANTEED TO FIRST AMERICAN TITLE INSURANCE CO. OF N.Y.		OLD BETHPAGE NASSAU COUNTY
BANK LEUMI		JOB No. 85-24327
MELVIN GREENBERG FRANK MARCHHART		

ıment of Planning and Development
(516) 624-6200

TOWN OF OYSTER BAY · 1653 · NEW YORK

74 Audrey Ave., Oyster Bay N.Y. 11771
Fax (516) 624-6240

Building Inspectors Report

8/10/98 | AM ☐ | PM ☐ | I have reviewed (∅) previous reports

ıer EDR 33 Of NewYork | Contractor | Sec 47
Address 161 Sweethollow Rd. | Address | Blk A
Old Bethpage NY 11804 | | Lots 265
elephone | Telephone | Zone H

Permit #(s)	Type	Date Issued	Expiration Date	Invalid
R5680	Removal of Fuel Tank	11/24/97	11/24/98	

Type of Inspection- Excavation ☐ Footing ☐ Foundation ☐ Rough Frame ☐
Final Frame ☐ Insulation ☐ Final ☐ Other

Please Read Carefully

A field inspection has revealed that that the following items are necessary:

To Continue Work:

- ☐ No one was home
- ☐ Call for inspection 624-6222
- ☐ No building plans on job
- ☐ Need amended building plans
- ☐ Need Amended Permits
- ☐ Work does not conform to Building Code
- ☐ Work does not conform to approved building plans

To Obtain a Certificate of Occupancy:

- ☐ Must obtain Electrical Certificate from approved electrical inspection service For: _____
- ☐ Must submit updated survey
- ☐ Must have plumbing approval
- ☐ Must obtain permit for:

Please be advised that the Section, Block and Lot file for your property was reviewed by the Plan Examination Division on N/A The items checked below have been observed during the course of our inspection and require permits. There is currently no record that permits exist for the below noted structures.

Failure to obtain permits will result in the delay of the issuance of a Certificate of Occupancy or Compliance

- ☐ Cellar entrance
- ☐ Deck
- ☐ Dock
- ☐ Enclosed porch
- ☐ Extention
- ☐ Fence
- ☐ Fireplace
- ☐ Garage
- ☐ Garage/Converted
- ☐ Interior Alterations
- ☐ Retaining Wall/Bulkhead
- ☐ Roofed-over patio/deck
- ☐ Second Apartment/Dwelling
- ☐ Shed
- ☐ Swimming Pool
- ☐ Swimming Pool/Fence
- ☐ Swimming Pool/Heater
- ☐ Swimming Pool/Filter
- ☐ Swimming Pool/Accessories
- ☐ Swimming Pool Raised Deck
- ☐ Skylight
- ☐ Solar Heat
- ☐ A/C Unit
- ☐ Dormers

Other Structures

Comments/Observations/Information Inspection was not previously scheduled as required.
As per owner via phone conversation on 8/10/98 Tank removed several months ago.
He has been instructed to submit an Engineers Certification stating that he witnessed tank removal & it was disposed of in the required fashion.

Please Note All inspections approved are subject to review of file and certification requirements. You will be notified if any further documentation is required.

Inspection Approved: ☐ Yes ☐ No ☐ Conditional Approval (see comments)
☐ Report to Contractor: ☐ In Person ☐ Left on Premises
☐ Report to Homeowner ☐ In Person ☐ By Mail Inspector's Ext. 624- 6275
N.O .V.# ☐ Date due ☐ Summons# ☐ Date returnable ☐

Received By: | Inspector's Signature: M. Fabrizio

This is a copy. The original is on file in the building division.

Building Permit

R 5680
Blue Copy

Town of Oyster Bay
Department of Planning and Development
Phone 516-624-6200

74 Audrey Avenue
Town Hall, Oyster Bay, N.Y. 11771
Fax 516-624-6240

SD Sect	Block	Lot	Zone	Application No.	ZBA Number	ZBA Date	Receipt No.
20	47	A 265	H	4027 1997		/ /	H138702

Permittee	THOMAS P. SMYTH, GCI, INC 125 BAYLIS RD MELVILLE, NY 11747 516-694-7878	Contractor	FENLEY & NICHOL ENVIRONMENTAL INC. 445 BROOK AVE DEER PARK, NY 11729
Property Owner	EOR 33 OF NEW YORK, INC 562 FIFTH AVE NEW YORK, NY 10036 212-626-1207	Plumber	

Address of Actual Construction
161 SWEETHOLLOW RD
OLD BETHPAGE, NY 11804

Tenant
None

Permission granted for the DEMOLITION OF

And Removal of An Existing ~~1000~~ 2000 Gallon Underground Fuel Oil Tank to code, located Adjacent to Northwest corner of Existing Building. As per Inspection Report by GCI Envi No: Eng Consultants Copy

ALL WORK TO COMPLY WITH T.O.B. APPROVED PLAN DATED 11/21/97.

ZONING REVIEW: ALL DEBRIS MUST BE REMOVED FROM SITE AND AREA MADE SAFE FOR RELEASE OF BOND. DURING THE PROCESS OF DEMOLITION, INSPECTIONS ARE REQUIRED. AN INSPECTION MUST BE SCHEDULED AND INSPECTED PRIOR TO BACKFILLING. PLEASE CALL TO SCHEDULE AN INSPECTION TO COINCIDE WITH THE DEMOLITION PROCESS.

A certificate from an approved Electrical Inspection Co. is to be placed on file prior to issuance of a Certificate of Occupancy/Approval/Completion

Please note that when two numbers are shown, the number on the left is the existing structure, the number on the right is the proposed structure.

Located on	Side of	Feet		of	Post Office
SE	SWEETHOLLOW ROAD	0.00		WINDING ROAD	OLD BETHPAGE

Structure Width		Depth		Height		Stories		Front Yard	

Rear Yard		Side Yard		Side Yard		Fr Side Yard		Est Val Cons
								$2,500.00

Septic Tank	Pre Cast	Dry wells	No Plumb Fixtures	No. Burners							
gal.	No				Oil		Gas		Coal		Electric

Sprinkler Heads	Oil Tank Inside		Oil Tank Outside		Hot Water		
	gauge	gal.	gauge	gal.	Oil	Gas	Electric

FEE FOR	AMOUNT
Construction	$60.00
Plumbing	
Burner	
AC Unit	
Tank	
Sanitary	
Constr Co	
Cert of Comp	$10.00
Plumb CA	
Dry Wells	
Total Fee	$70.00

Occupancy of this new building or addition or alteration prior to the issuance of a Certificate of Occupancy will be considered a violation of the Code of the Town of Oyster Bay. Prompt notification by the various contractors for inspection of their respective parts of the work will avoid delay in the issuance of the Certificate of Occupancy. Permit must be posted on the job site, visual to public inspection, until completion of the work and inspections.

Changes regardless of size from the stamped approved plans must be submitted to the Department of Planning and Development and approved before the changes are made. Approved plans must be retained on the job and available to inspection at all times.

INSPECTIONS

There a numerous inspection requirements that vary according to the type of structure built or maintained. Some but not all of the required inspections follow:

BUILDING INSPECTIONS:

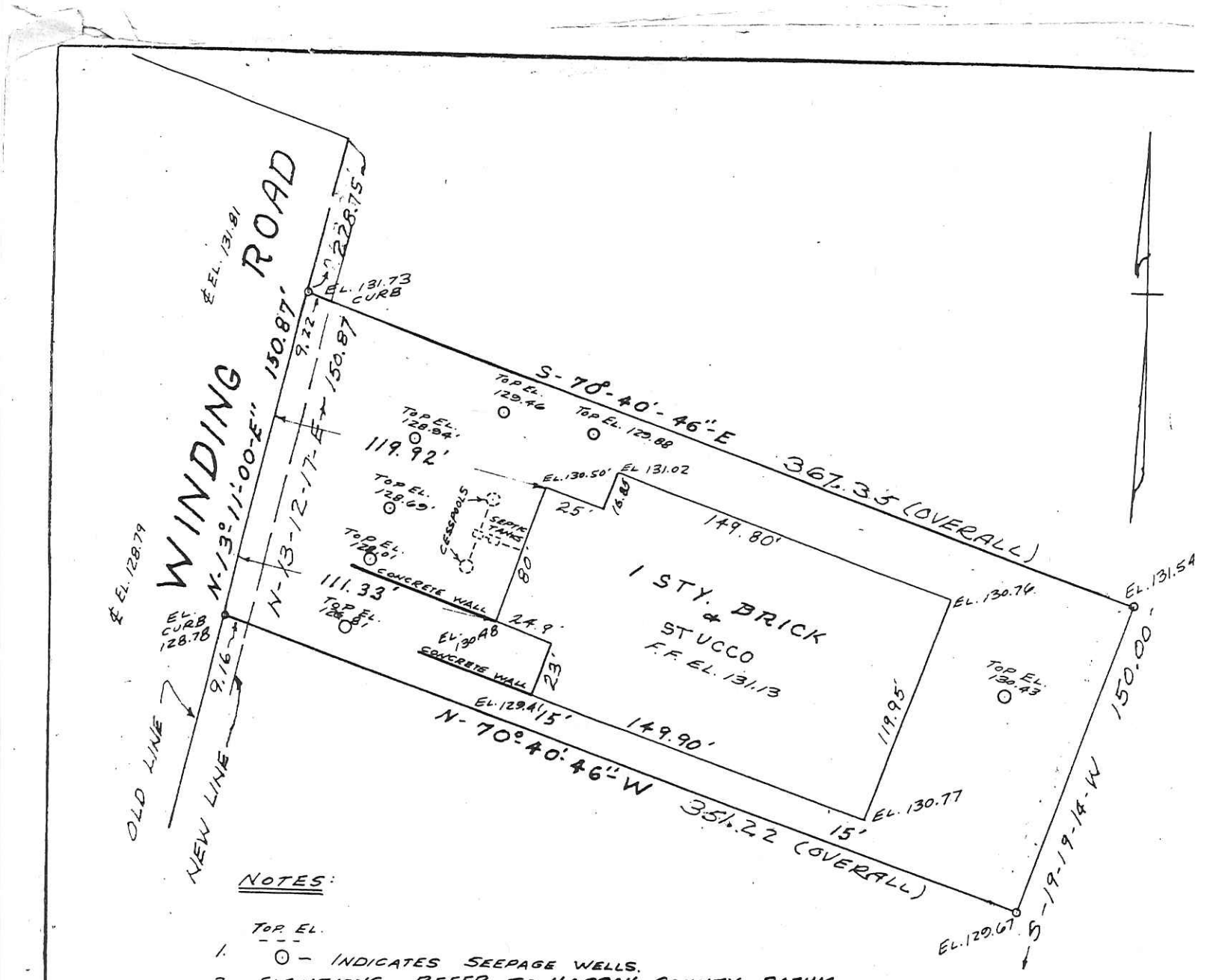
*Demolition Inspections -- Check with Building Division.
*Slump tests when required.
*Soil conditions -- before footings and foundations are formed.
*Forms for footings, keyways and foundations including rebar.
*Footings, foundations and keyways -- after poured
*Waterproofing, membrane and insulating -- footings.
*Foundations and/or slabs.
*Framing -- wood or steel before mechanicals.
*Framing after mechanicals and before insulating.
*Insulation inspection -- before closing.
*Rough enclosed.
*Final inspection(s).

PLUMBING INSPECTIONS:

*Underground plumbing -- before backfilling.
*Rough plumbing -- before closed up and ready for test.
*Final inspection when all fixtures are set.
*Sewer connection -- spur tie-in.
*Sanitary systems. (Excavation/Construction).
*Installation or replacement of burners. (oil, gas, electric).
*All Tanks - inground or above.(Check with Building Division for required testing and inspections).
*Mercury tests are required for any natural or propane gas installation, alteration or replacement
*Hydrostatic pressure testing must be witnessed by a plumbing inspector for all fire sprinkler systems.

DRAINAGE, SITE WORK & RETAINING WALLS:
*Contact Planning and Development site engineer.

Date Issued 11/24/1997	Work must start by 05/23/1998
C.O. must be issued by 11/24/1998 prior to expiration.	or permit will expire unless renewed
Permittee's copy of approved plans must be available at the site for all inspections	initials
Patricia S. McGuire Commissioner, Department of Planning and Development	



NOTES:

TOP EL.
1. O — INDICATES SEEPAGE WELLS.
2. ELEVATIONS REFER TO NASSAU COUNTY DATUM

COMPLETED JULY 20, 1965
REVISED TO SHOW NEW LINE AND ADDITIONAL PIECE ON EAST SIDE — JUNE 30, 1965
CONTINUED TO — MAR. 12, 1965
UNDER CONSTRUCTION SEPT. 18, 1964

OWNER NICHOLAS RACANELLI

LOCATION OLD BETHPAGE, N.Y.

LOT BL.

MAP DESCRIPTIVE PARCEL

SURVEYED NOV. 8, 1963

SCALE 1" = 60'

GUARANTEED TO HOME TITLE DIVISION
CHICAGO TITLE INSURANCE CO.

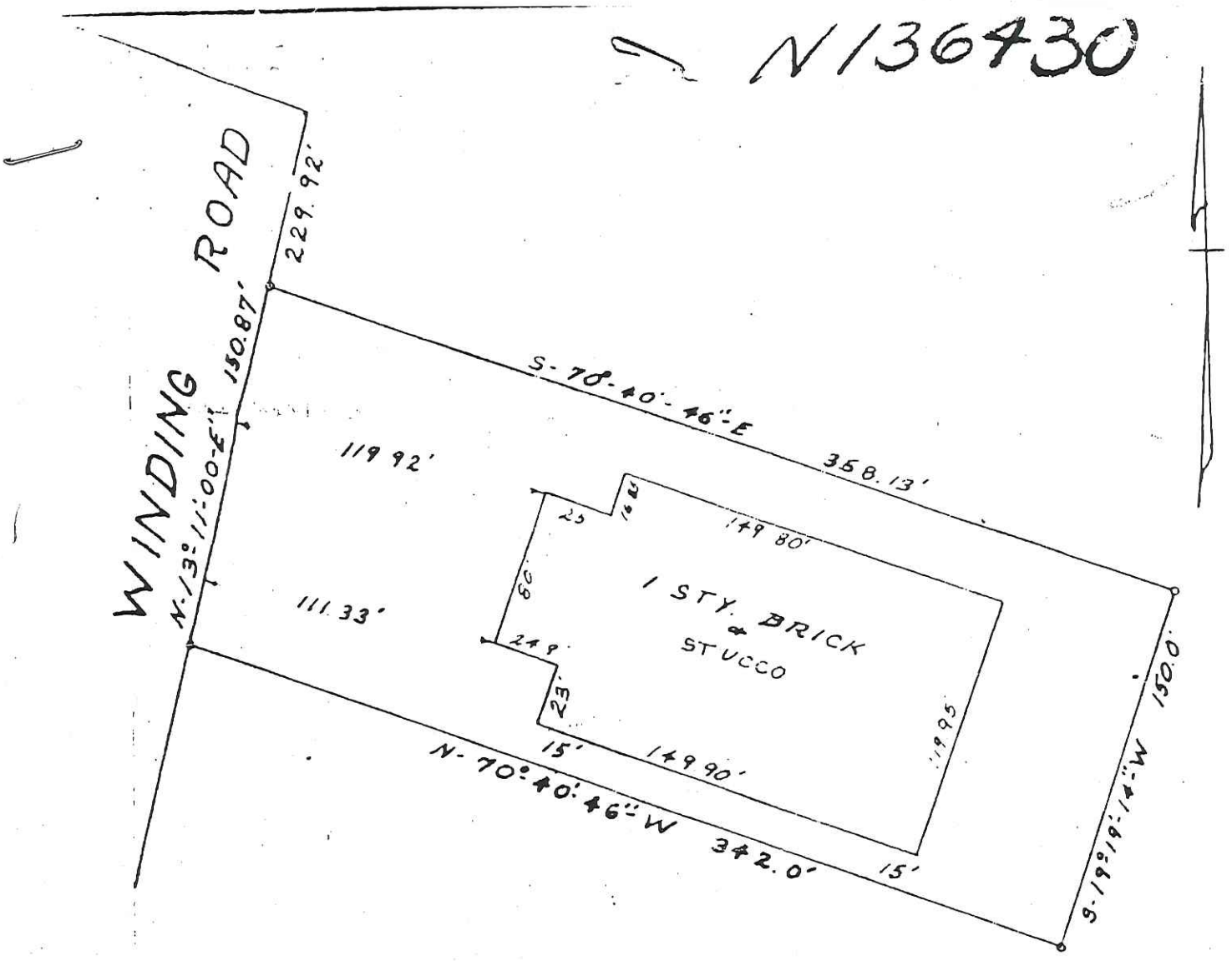
Joseph E. Dioguardi

JOSEPH E. DIOGUARDI
LICENSED LAND SURVEYOR
GLEN HEAD, N. Y.

65156

BRANDIS & SONS, INC., BROOKLYN — IMPERIAL TRACING CLOTH — JOB NO. 521

N/36430



CONTINUED TO - MAR. 12, 1965
UNDER CONSTRUCTION SEPT. 18, 1964

(2)

OWNER NICHOLAS RACANELLI

LOCATION OLD BETHPAGE, N.Y.

DESCRIPTIVE PARCEL

SURVEYED NOV. 8, 1963

SCALE 1" = 60'

GUARANTEED TO HOME TITLE DIVISION
CHICAGO TITLE INSURANCE CO.

JOSEPH E. DIOGUARDI
LICENSED LAND SURVEYOR
GLEN HEAD, N. Y.

BRANDIS & SONS INC., BROOKLYN — IMPERIAL TRACING CLOTH — JOB NO 521

TOWN OF OYSTER BAY – Building Division

47 B A L 263 APPLICATION # 121285

Flood Zone _____ Checked By _____

SBL Folder ✓ Checked By _____

05/15/13

ZONING REVIEW

Alterations to accommodate vegetable oil conversion facility for "Intelligen Power", add the installation of 2 - 8' x 40' equipment/storage trailers/tank & one - 11' x 28' secondary containment tank/trailer.

Checked by: 11/29/12

PERMISSION GRANTED FOR THE CONSTRUCTION

OF: ~~A 83.5x 44'(OA)(IRE) 3,206 (PARTIAL)~~ INT. ALT. TO FIRST FL OF EXISTING ONE(1) STY (TYPE 2-B)(FIRE-SBR.) BUILDING TO ACCOMMODATE USE FOR "INTELLIGEN POWER" ('F-1'/'B') AS PER PLANS PREPARED BY ANGELO F. CORNA RA, DATED 9.11.12.
INSTALL THREE (3) PLUMBING FIXTURES (1-EMERGENCY EYE WASH, 1-HAND LINED WATER DISPENSER, 1-ET) AND TWO (2) BURNERS (1-GAS FIRED HW BOILER, 1-DIESEL FIRED HW BOILER) AS PER CODE.
INSTALL ONE(1) ELECTRIC FIRED RTU ON CURBS AS PER CODE.
INSTALL TWO (2) (8' x 40')(EA)(640 SF) (TOTAL) (OUTDOOR) STORAGE TRAILERS AND TWO (2) (OUTDOOR) TANKS (1-8,000 GAL CONTAINMENT, 1-METHANOL); TWENTY SIX (26) (INDOOR) TANKS (2-VERTICAL/4-55 GAL, 1-250 GAL, 7-2,000 GAL, 9-1,000 GAL) (2-POLISHING TANKS, 3-BIO TANKS) AS PER CODE.
CONSTRUCT ONE(1) PAINT SPRAY BOOTH, AS PER CODE.

* SIGNS MUST BE FILED SEPARATELY.
* MODIFICATIONS TO EXIST. F.S. SYSTEM MUST BE FILED SEPARATELY.
* MUST AMEND ENERGY CALCULATIONS FOR MODIFIED ENVELOPE INTERIOR LIGHTING, AND MECHANICAL SYSTEMS PRIOR TO C.O
*

ALL WORK TO COMPLY WITH T.O.B. APPROVED PLAN DATED MAY 07 2013

EXAMINER L. JAHCHAN ESTIMATED COST OF CONSTRUCTION $56,140.-

- 3,706 ☐ x $15 → $48,090.-
- 640☐ x $10 → $ 6,400.-
- TANKS 1,000 → $175
  Rem. 31,170 GAL @ $85/1,000 Gal → (28) CA
- P/F (3) → CA
- Burners (2) → Gas / Diesel → CA
  +(1) FOR RTU → CC
- 1-RTU on dunnage (el) → CC
  (BLDG > 20,000☐) $1,650.-

FEE FOR	AMOUNT
Construction	$772.-
(3) Plumbing	$85.-
(3) Burner	$255.-
(11) AC Unit	$1,000.-
Tank 32,170	$2,895.-
Sanitary	
Dry Wells	
Cert. Of Occupancy	$137.-
Cert. Of Completion	$25.-
(33) Cert. Of Approval	$85.-
Other	
Sub-Total	$5,254.-
Maintain Existing	-
Total	$5,254.-
Less Filing Fee	-50.00
Balance Due:	$5,204.-

11/13 Revised balance per discussion w/ Sal Corna Re: area of work.

MAP SECTION 47 BLOCK A LOT(s) 265

Do Not Write In This Area
APPLICATION NO.
004027
BN

TOWN OF OYSTER BAY
DEPARTMENT OF PLANNING & DEVELOPMENT
DIVISION OF BUILDING
Town Hall
Oyster Bay NY 11771

Application for Demolition or Construction Other Than Buildings

APPLICATION MUST BE TYPEWRITTEN OR PRINTED IN INK *LEGIBLY*

	NAME	STREET ADDRESS	POST OFFICE	ZIP	PHONE #
PROPERTY OWNER	EOR 33 of New York, Inc.,	562 Fifth Avenue,	N.Y.	10036	212-626-12
LESSEE TENANT	(VACANT) Ohaus Electronic Typewriter wa				
APPLICANT	GCI, Inc	125 Baylis Road	Melville, N.Y.	11747	516-694-7878
ARCHITECT					
CONTRACTOR*	Fenley & Nicol Inc.,	445 Brook Ave.	Deer Park,NY	11729	

BN OK 10/30/97

NASSAU COUNTY HOME IMPROVEMENT NO. _____ EXP.

WORKERS COMPENSATION NUMBER 1137173-9 11/1/98.

*Pursuant to Section 57, of the Worker's Compensation Law a Certificate of Insurance on the standard form subscribed by an insurance company authorized by the Superintendent of Insurance to issue worker's compensation policies must be filed with this application covering all operations in connection therewith.

ADDRESS OF CONSTRUCTION: 161 Sweethollow Road (NO. & STREET) Old Bethpage (POST OFFICE) 11804 (ZIP CODE)
IF DIFFERENT FROM ABOVE

LOCATION OF PROPERTY: ~~X~~ N.E.S.W. SIDE OF Sweethollow Road (STREET); 0 (DIMEN.) FEET

N.E.S.W. OF Winding Road (STREET); Old Bethpage (POST OFFICE)

OR

~~X~~ N.E.S.W. East corner of Winding Road (STREET) and Sweethollow Rd. (STREET); Old Bethpage (POST OFFICE)

X PROPOSED ___ EXISTING

___ RETAINING WALL: ___ wood ___ concrete

___ SOLAR PANELS

___ BULKHEAD OR DOCK

___ A/C UNIT: Number of Units: ___

___ OTHER: _____

X DEMO: Structure: 1,000 gal. fuel Oil UST Address: 161 Sweethollow Rd.

___ FENCING: ___ stockade ___ chain link (slats) ___ basket weave ___ other _____

	Front yard	Side yard	Side yard	Rear yard
length				
height				

Location of structures must be shown on the surveys.

HAVE BOTH AFFIDAVITS NOTARIZED

THE OWNER OF THIS BUILDING & THE UNDERSIGNED AGREE TO CONFORM TO ALL APPLICABLE LAWS OF THE TOWN OF OYSTER BAY, COUNTY OF NASSAU & STATE OF NEW YORK.

APPLICANT

STATE OF NEW YORK
COUNTY OF NASSAU ss.:

Thomas P. Smyth, GCI being duly sworn, deposes and says: That he/she resides at 125 Baylis Rd. in the hamlet of Melville in the State of N.Y. and that he/she is authorized by the Owner EOR 33 of NY who is the owner in fee of all that certain lot, piece or parcel of land shown on the attached survey, situated, lying and being within the unincorporated area of the Town of Oyster Bay, to make application for a permit to perform said work in the foregoing application and accompanying plans, and all the statements contained therein are true to deponent's own knowledge.

Address 125 Baylis Rd., Melville, NY
Phone 516-694-7878

(Sign here) _____

Sworn to before me this 30 day of OCTOBER 19 97.

Robert W. Heilmann

ROBERT W. HEILMANN, JR.
Notary Public, State of New York
No. 4975053
Qualified in Suffolk County
Commission Expires November 26, 1998

OWNER

STATE OF NEW YORK
COUNTY OF NASSAU ss.: OWNER V.P.

George R. Penny being duly sworn, deposes and says: That he/she resides at 562 Fifth Avenue in the hamlet of New York in the State of N.Y. and that he/she is the owner in fee of all that certain lot, piece or parcel of land shown on the attached survey, situated, lying and being within the unincorporated area of the Town of Oyster Bay, that the work proposed to be done upon the said premises, will be done in accordance with the approved application and accompanying plans, and hereby authorizes GCI, Inc. (applicant) to make application for a permit to perform said work in foregoing application and accompanying plans, and all the statements herein contained are true to deponent's own knowledge.

(Sign Here) _____ (owner)

Sworn to before me this 30 day of OCTOBER 19 97

Robert W. Heilmann

ROBERT W. HEILMANN, JR.
Notary Public, State of New York
No. 4975053
Qualified in Suffolk County
Commission Expires November 26, 1998

Building Permit

NO. R 5680

Town of Oyster Bay
Department of Planning and Development
Phone 516-624-6200

74 Audrey Avenue
Town Hall, Oyster Bay, N.Y. 11771
Fax 516-624-6240

SD	Section	Block	Lot	Zone	Application No.		ZBA Number	ZBA Date	Receipt No.
20	47	A	265	H	4027	1997		/ /	H138702

Permittee	THOMAS P. SMYTH, GCI, INC 125 BAYLIS RD MELVILLE, NY 11747 516-694-7878	**Contractor**	FENLEY & NICHOL ENVIRONMENTAL INC. 445 BROOK AVE DEER PARK, NY 11729
Property Owner	EOR 33 OF NEW YORK, INC 562 FIFTH AVE NEW YORK, NY 10036 212-626-1207	**Plumber**	

Address of Actual Construction
161 SWEETHOLLOW RD
OLD BETHPAGE, NY 11804

Tenant
None

Permission granted for the DEMOLITION OF

And Removal of An Existing ~~1000~~ 2000 Gallon Underground Fuel Oil Tank to code located Adjacent to Northwest corner of Existing Building. 10/8/98 (PP)

ALL WORK TO COMPLY WITH T.O.B. APPROVED PLAN DATED 11/21/97.

ZONING REVIEW: ALL DEBRIS MUST BE REMOVED FROM SITE AND AREA MADE SAFE FOR RELEASE OF BOND. DURING THE PROCESS OF DEMOLITION, INSPECTIONS ARE REQUIRED. AN INSPECTION MUST BE SCHEDULED AND INSPECTED PRIOR TO BACKFILLING. PLEASE CALL TO SCHEDULE AN INSPECTION TO COINCIDE WITH THE DEMOLITION PROCESS.

A certificate from an approved Electrical Inspection Co. is to be placed on file prior to issuance of a Certificate of Occupancy/Approval/Completion

Please note that when two numbers are shown, the number on the left is the existing structure, the number on the right is the proposed structure.

Located on	Side of	Feet		of	Post Office
SE	SWEETHOLLOW ROAD	0.00		WINDING ROAD	OLD BETHPAGE

Structure Width		Depth		Height		Stories		Front Yard	

Rear Yard		Side Yard		Side Yard		Fr Side Yard		Est Val Cons
								$2,500.00

Septic Tank	Dry wells	Pre Cast	No. Fixtures	No. Burners
gal.		No		Oil Gas Coal Electric

Sprinkler Heads	Oil Tank Inside		Oil Tank Outside		Hot Water		
	gauge	gal.	gauge	gal.	Oil	Gas	Electric

FEE FOR	AMOUNT
Construction	$60.00
Plumbing	
Burner	
AC Unit	
Tank	
Sanitary	
Constr Co	
Cert of Comp	$10.00
Plumb CA	
Dry Wells	
Total Fee	$70.00

Occupancy of this new building or addition or alteration prior to the issuance of a Certificate of Occupancy will be considered a violation of the Code of the Town of Oyster Bay. Prompt notification by the various contractors for inspection of their respective parts of the work will avoid delay in the issuance of the Certificate of Occupancy. Permit must be posted on the job site, visual to public inspection, until completion of the work and inspections.

Changes regardless of size from the stamped approved plans must be submitted to the Department of Planning and Development and approved before the changes are made. Approved plans must be retained on the job and available to inspection at all times.

INSPECTIONS

There a numerous inspection requirements that vary according to the type of structure built or maintained. Some but not all of the required inspections follow:

BUILDING INSPECTIONS:

*Demolition Inspections -- Check with Building Division.
*Slump tests when required.
*Soil conditions -- before footings and foundations are formed.
*Forms for footings, keyways and foundations including rebar.
*Footings, foundations and keyways -- after poured
*Waterproofing, membrane and insulating -- footings.
*Foundations and/or slabs.
*Framing -- wood or steel before mechanicals.
*Framing after mechanicals and before insulating.
*Insulation inspection -- before closing.
*Rough enclosed.
*Final inspection(s).

PLUMBING INSPECTIONS:

*Underground plumbing -- before backfilling.
*Rough plumbing -- before closed up and ready for test.
*Final inspection when all fixtures are set.
*Sewer connection -- spur tie-in.
*Sanitary systems. (Excavation/Construction).
*Installation or replacement of burners. (oil, gas, electric).
*All Tanks - inground or above.(Check with Building Division for required testing and inspections).
*Mercury tests are required for any natural or propane gas installation, alteration or replacement
*Hydrostatic pressure testing must be witnessed by a plumbing inspector for all fire sprinkler systems.

DRAINAGE, SITE WORK & RETAINING WALLS:

*Contact Planning and Development site engineer.

Date Issued 11/24/1997 Work must start by 05/23/1998

C.O. must be issued by 11/24/1998 or permit will expire unless renewed prior to expiration.

Permittee's copy of approved plans must be available at the site for all inspections

Commissioner, Department of Planning and Development

Alan Lundgren Supt. initials
Division of Building

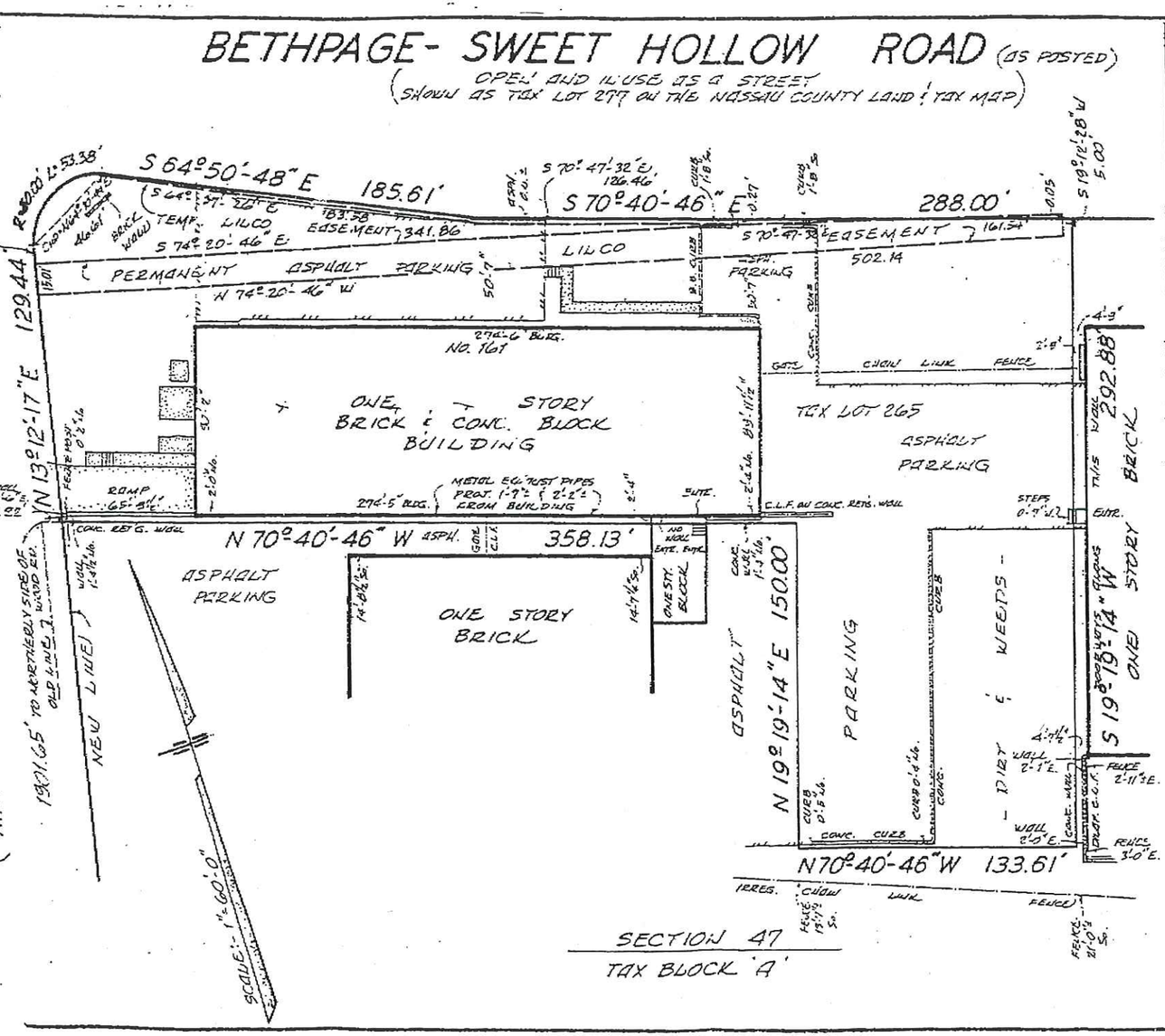
Department of Planning & Development - Building Permit S.B.L. COPY

WILLIAM H TOMERS PAGE 04
5167582217
/2001 16:37

SURVEY NO. 69976

BETHPAGE- SWEET HOLLOW ROAD (AS POSTED)

(OPEN AND IN USE AS A STREET
SHOWN AS TAX LOT 277 ON THE NASSAU COUNTY LAND & TAX MAP)



MAP OF PROPERTY
SITUATE AT
OLD·BETHPAGE
TOWN OF OYSTER BAY
NASSAU COUNTY, N.Y.

LOT NUMBERS

UNAUTHORIZED ALTERATION OR ADDITION TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW.

COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYOR'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

GUARANTEES OR CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED, AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. GUARANTEES OR CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

GUARANTEED TO:-
COMMONWEALTH LAND TITLE INSURANCE COMPANY
FOR THIRTY-THREE OF NEW YORK, INC.

SURVEYED OCTOBER 31, 1994

ROBERT A. HAYNES
PROFESSIONAL LAND & CITY SURVEYOR
248-25 NORTHERN BLVD., SUITE 2E
LITTLE NECK, N.Y. 11363

219 SYOSSET-WOODBURY ROAD
SYOSSET, N.Y. 11791

718-631-7595
516-496-1530

RECORDS OF WALTER C. BROWNE & GUSTAVE A. ROULLIER

REJECTED

Appendix L

Load Letters

Gas Load Letter

nationalgrid

In order to process your request for gas service, the following information is required.

Project Address _____ City _____ State _____ Zip _____

Project Contact Name _____ Phone # _____

Email _____

EXISTING GAS EQUIPMENT REMAINING ON PREMISES

Please enter the type of equipment (e.g. "Heat", "WH", "Cooking", etc.), AFUE rating, the quantity of units, model number, Equipment gas pressure and BTU's per unit and total BTU's of gas load.

Type	Model	Equipment Pressure Min.	Equipment Pressure Max.	Qty.	BTU Input Rating per Unit	BTU Input Rating Total

Existing National Grid Gas Account Number _____ Total Existing BTU Input _____

NEW GAS EQUIPMENT TO BE INSTALLED ON PREMISES

Type	AFUE	Model	Equipment Pressure Min.	Equipment Pressure Max.	Qty.	BTU Input Rating per Unit	BTU Input Rating Total

Total New BTU Input _____

Total Existing and New BTU Input _____

Other Energy Efficiency On This Project: Pipe Insulation ☐ Building Controls ☐ Roof / Wall Insulation ☐ Other _____

Would you like information about our Energy Efficiency Programs? ☐ Yes ☐ No

Please Check

Res. 1 to 5 family ☐

Multifamily 6+ ☐

Commercial ☐

Customer / Account Name _____

Mailing Address _____

Phone _____ Email _____

Please Check

New Construction ☐

Existing Structure ☐

Plumber Company Name _____

Mailing Address _____

Phone _____ Email _____

Expected Date Gas Needed By: _____ **Return Form To:** _____

REMINDER: PHOTOS OF JOB SITE READINESS ARE REQUIRED BEFORE SERVICE CAN BE SCHEDULED

PSEG LONG ISLAND
We make things work for you.

Please submit all paperwork to:
PSEG LI Customer Order Fulfillment
Phone: 516.949.8691 (Nassau), 516.949.8692 (Suffolk)
Fax: 844.846.1550 (Nassau), 844.846.1553 (Suffolk)
Email: COFLI@pseg.com

Commercial/Industrial
JOB NOTIFICATION CHECKLIST/LOAD LETTER

Customer Name: _____ Date: _____

Address:_____ CrossStreet:_____Town: _____

Customer Email: _____ Phone: _____

Builder's Name: _____ Phone: _____

Electrical Contractor's Name: _____ Lic#:_____

Address: _____ Town: _____ Zip: _____

Electrical Contractor's Email: _____ Phone: _____

Service Characteristics

- Service Size _____ Amperes
  1 ϕ ☐ 3 ϕ ☐
- Voltage_____
- Overhead ☐ Underground ☐
- Main Switch Size _____ Amps
- Total Sq. Ft. of Building _____ Ft

Load Information
(Total Load by Category)

Estimated Monthly Connected Demand (kw/Month)

- ☐ Lights_____
- ☐ Motors_____ HP_____
- ☐ Common area load, including hall lighting, elevators, etc. _____
- ☐ Air Conditioning_____
- ☐ Refrigeration_____
- ☐ Computers_____
- ☐ Welders_____
- ☐ Miscellaneous Equipment_____
- ☐ Electric Heating_____

TOTAL _____ kW

Estimated Monthly Electric Demand

- ☐ Less than 7 KW
- ☐ 7KW or more
- ☐ Over 145 KW (June – Sept) or 500 KW (Oct – May)
- ☐ Unknown

******A site plan or sketch is required for ALL new Commercial services, please include the following information:***

- ☐ Exact Building Location
- ☐ Proposed/Existing Subsurface Facilities
- ☐ Proposed Meter Location
- ☐ Proposed Transformer Pad Location
- ☐ Proposed Cable Route

Please visit our website at: https://www.psegliny.com/page.cfm/Commercial/CustomerService/ServiceRequests

CDM Smith®

cdmsmith.com